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Laboratory Code: 11148

SDG Number: L2433375

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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2433375
Report Date: 07/01/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2433375-01	EB_06132024	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	06/13/24 12:30	06/13/24
L2433375-02	DUP_06132024	WATER	416 MILLER PLACE-YAPHANK ROAD	06/13/24 11:00	06/13/24
L2433375-03	PZ-5	WATER	416 MILLER PLACE-YAPHANK ROAD	06/13/24 08:50	06/13/24
L2433375-04	MW-5D	WATER	416 MILLER PLACE-YAPHANK ROAD	06/13/24 09:00	06/13/24
L2433375-05	MW-12S	WATER	416 MILLER PLACE-YAPHANK ROAD	06/13/24 10:35	06/13/24
L2433375-06	MW-12D	WATER	416 MILLER PLACE-YAPHANK ROAD	06/13/24 10:30	06/13/24
L2433375-07	MW-4S	WATER	416 MILLER PLACE-YAPHANK ROAD	06/13/24 11:45	06/13/24
L2433375-08	MW-4D2	WATER	416 MILLER PLACE-YAPHANK ROAD	06/13/24 11:40	06/13/24
L2433375-09	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	06/11/24 00:00	06/13/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission
July 01, 2024: This final report includes the results of all requested analyses.
June 24, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analyses of Sulfide, Ammonium and Iodide were subcontracted. Copies of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt
The analyses performed were specified by the client.

Semivolatile Organics
L2433375-02: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (4%) and 2,4,6-tribromophenol (6%); however, the criteria were achieved upon re-extraction outside of holding time. Only the results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.
L2433375-05: The surrogate recovery was outside the acceptance criteria for 2-fluorophenol (7%); however, the criteria was achieved upon re-extraction outside of holding time. Only the results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.
WG1936733-1: The surrogate recovery is outside the individual acceptance criteria for 2-fluorophenol (16%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

Semivolatile Organics by SIM
L2433375-02: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (5%) and 2,4,6-tribromophenol (7%); however, the criteria were achieved upon re-extraction outside of holding time.

Case Narrative (continued)

Only the results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.
L2433375-05: The surrogate recovery was outside the acceptance criteria for 2-fluorophenol (9%); however, the criteria was achieved upon re-extraction outside of holding time. Only the results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.
WG1936734-1: The surrogate recovery is outside the individual acceptance criteria for 2-fluorophenol (20%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.
The WG1936909-5 MS recovery, performed on L2433375-04, is below the acceptance criteria for pentachlorophenol (9%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.
The WG1936908-4/-5 MS/MSD recoveries, performed on L2433375-04, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%), due to the concentration of this compound in the MS/MSD falling below the reported detection limit.

Solids, Total Dissolved
The WG1936204-3 Laboratory Duplicate RPD for solids, total dissolved (22%), performed on L2433375-04, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey Report Date: 07/01/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD	
	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:
Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L2433375

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

Received : 13-JUN-2024
Reviewer : Majid Abdul

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.6	
B	Absent/	Ice	3.6	
C	Absent/	Ice	4.4	
D	Absent/	Ice	2.4	
E	Absent/	Ice	2.4	
F	Absent/	Ice	3.3	
G	Absent/	Ice	3.0	
H	Absent/	Ice	4.2	
I	Absent/	Ice	2.7	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 09 2024, 04:12 pm

Login Number: L2433375

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13JUN24 Due Date: 11JUL24

Sample #	Client ID	Mat	PR	Collected
L2433375-01	EB_06132024	S0	1	13JUN24 12:30

1ZE306540193065410 182.41 USD Pace, IN 1ZE306540190408206 134.64 USD Galbraith,TN Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built ASP-B Package Due Date: 07/11/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011, NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500, SUB-AMMONIUM,SUB-IODIDE,SUB-LEVEL5,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI, CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI, TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500, TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2433375-02	DUP_06132024	S0	1	13JUN24 11:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/11/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 09 2024, 04:12 pm

Login Number: L2433375

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13JUN24 Due Date: 11JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433375-03 PZ-5 1 S0 13JUN24 08:50

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/11/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433375-04 MW-5D 1 S0 13JUN24 09:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built L2433375-04 MS L2433375-04 MSD Package Due Date: 07/11/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 09 2024, 04:12 pm

Login Number: L2433375

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13JUN24 Due Date: 11JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,MS/MSD, NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500, SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI, CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433375-05	MW-12S		1 S0	13JUN24 10:35

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/11/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 09 2024, 04:12 pm

Login Number: L2433375

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13JUN24 Due Date: 11JUL24

Sample #	Client ID	Mat	PR	Collected
L2433375-06	MW-12D		1	S0 13JUN24 10:30

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/11/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2433375-07	MW-4S		1	S0 13JUN24 11:45

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/11/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 09 2024, 04:12 pm

Login Number: L2433375

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13JUN24 Due Date: 11JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433375-08 MW-4D2 1 S0 13JUN24 11:40

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/11/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433375-09 TRIP BLANK 1 S0 11JUN24 00:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/11/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 09 2024, 04:12 pm

Login Number: L2433375

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 13JUN24 Due Date: 11JUL24

Sample #	Client ID	Mat	PR Collected

HOLD-504/8011,NYTCL-8260

Logged By: Jennifer Byrnes

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 06/14/24

ALPHA Job #: L2433375

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #)
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days:

Deliverables

- [ ] ASP-A
- [x] ASP-B
- [ ] EQuIS (1 File)
- [ ] EQuIS (4 File)
- [ ] Other

Regulatory Requirement

- [ ] NY TOGS
- [ ] NY Part 375
- [ ] AWQ Standards
- [ ] NY CP-51
- [ ] NY Restricted Use
- [ ] Other
- [ ] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information

- [ ] Same as Client Info

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
NJ [ ] NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- [x] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-LVI	TAL600/TAL-2007S	Br-300	Cl-4500	No3/No2-4500-PPB	TOTALNITROGEN	TDS-2540	Sample Specific Comments	Total Bottles
33375-01	EB_06132024	6/13/24	1230	AQ	JM	X	X	X	X	X	X	X	X		26
-02	DUP-06132024	6/13/24	1100	AQ	JM	X	X	X	X	X	X	X	X		26
-03	PZ-5	6/13/24	0850	AQ	~~BP~~ JM	X	X	X	X	X	X	X	X		26
-04	MW-5D	6/13/24	0900	AQ	JM	X	X	X	X	X	X	X	X	MS/MSD	78
-05	MW-12S	6/13/24	1035	AQ	PP	X	X	X	X	X	X	X	X		26
-06	MW-12D	6/13/24	1030	AQ	JM	X	X	X	X	X	X	X	X		26
-07	MW-4S	6/13/24	1145	AQ	PP	X	X	X	X	X	X	X	X		26
-08	MW-4D2	6/13/24	1140	AQ	JM	X	X	X	X	X	X	X	X		26
-09	TRIP BLANK	6/11/24		AQ	LAB	X									2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	P	P	P	A	A	P	
Preservative	B	A	C	A	A	D	D	A	

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/13/24 @ 13:45	## Pace	6/13/24 13:45
## Pace	6/13/24 15:27	ASF PACE L1	6/13/24 15:27
## Pace	6/13/24 18:30	[signature]	6/13/24 19:00
[signature]	6/13/24	[signature]	6/13 2200
[signature]	6/14 130	[signature]	6/14/24 0130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 6/14/24

ALPHA Job #: L2439375

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #)
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

Standard
Due Date:
Rush (only if pre approved)
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

- [ ] ASP-A
- [x] ASP-B
- [ ] EQuIS (1 File)
- [ ] EQuIS (4 File)
- [ ] Other

Regulatory Requirement

- [ ] NY TOGS
- [ ] NY Part 375
- [ ] AWQ Standards
- [ ] NY CP-51
- [ ] NY Restricted Use
- [ ] Other
- [ ] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information

- [ ] Same as Client Info

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
NJ NY
Other:

Sample Filtration

- [x] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500/F-4500	TPO4-4500	Alk-Co3-2320/Alk-HC03-23	SUB-SULFIDE	SUB-IODIDE	SUB-Ammonium	TCL PCBs-8082A (LVI)	TCL Pesticides/Herb	Sample Specific Comments	Total Bottles
33375-01	EB_06132024	6/13/24	1230	AQ	JM	X	X	X	X	X	X	X	X		26
-02	DUP_06132024	6/13/24	1100	AQ	JM	X	X	X	X	X	X	X	X		26
-03	PZ-5	6/13/24	0852	AQ	PP	X	X	X	X	X	X	X	X		26
-04	MW-5D	6/13/24	0900	AQ	JM	X	X	X	X	X	X	X	X	MS/MSD	78
-05	MW-12S	6/13/24	1035	AQ	PP	X	X	X	X	X	X	X	X		26
-06	MW-12D	6/13/24	1030	AQ	JM	X	X	X	X	X	X	X	X		26
-07	MW-4S	6/13/24	1145	AQ	PP	X	X	X	X	X	X	X	X		26
-08	MW-4D2	6/13/24	1140	AQ	JM	X	X	X	X	X	X	X	X		26

Container Type	P	A	P	P	P	P	A	A
Preservative	A	D	A	K	A	D	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/13/24 13:45	Pace	6/13/24 13:45
Pace	6/13/24 15:27	ASF PACE CJ	6/13/24 15:27
Pace	6/13/24 18:35		6/13/24 18:00
	6/13/24		6/13 2200
	6/14 1300		6/14/24 0130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433375
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Trip Blank (Aqueous)/Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
EB_06132024 (L2433375-01)	108	99	103	105	0
DUP_06132024 (L2433375-02)	107	100	104	104	0
PZ-5 (L2433375-03)	110	101	103	107	0
MW-5D (L2433375-04)	108	101	103	106	0
MW-12S (L2433375-05)	108	99	105	106	0
MW-12D (L2433375-06)	109	100	106	107	0
MW-4S (L2433375-07)	108	102	103	107	0
MW-4D2 (L2433375-08)	108	100	102	106	0
TRIP BLANK (L2433375-09)	108	101	104	106	0
WG1936583-3LCS	107	101	101	102	0
WG1936583-4LCSD	105	101	102	101	0
WG1936583-5BLANK	109	98	102	104	0
MW-5DMS	103	101	101	101	0
MW-5DMSD	103	102	104	102	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936583-3 **Analysis Date** : 06/18/24 19:04	**File ID**	: V01240618Q01
LCSD Sample ID	: WG1936583-4 **Analysis Date** : 06/18/24 19:30	**File ID**	: V01240618Q02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	10	100	10	10	100	0	70-130	20
1,1-Dichloroethane	10	11	110	10	11	110	0	70-130	20
Chloroform	10	11	110	10	11	110	0	70-130	20
Carbon tetrachloride	10	12	120	10	12	120	0	63-132	20
1,2-Dichloropropane	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	10	10	100	10	10	100	0	63-130	20
1,1,2-Trichloroethane	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	10	9.8	98	10	9.7	97	1	70-130	20
Chlorobenzene	10	11	110	10	11	110	0	75-130	20
Trichlorofluoromethane	10	10	100	10	10	100	0	62-150	20
1,2-Dichloroethane	10	11	110	10	11	110	0	70-130	20
1,1,1-Trichloroethane	10	11	110	10	11	110	0	67-130	20
Bromodichloromethane	10	10	100	10	11	110	10	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
cis-1,3-Dichloropropene	10	10	100	10	9.9	99	1	70-130	20
Bromoform	10	9.9	99	10	10	100	1	54-136	20
1,1,2,2-Tetrachloroethane	10	13	130	10	13	130	0	67-130	20
Benzene	10	11	110	10	11	110	0	70-130	20
Toluene	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	10	11	110	10	11	110	0	70-130	20
Chloromethane	10	8.4	84	10	8.5	85	1	64-130	20
Bromomethane	10	2.8	28 Q	10	3.9	39	33 Q	39-139	20
Vinyl chloride	10	11	110	10	11	110	0	55-140	20
Chloroethane	10	10	100	10	11	110	10	55-138	20
1,1-Dichloroethene	10	9.9	99	10	10	100	1	61-145	20
trans-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2433375
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1936583-3 **Analysis Date** : 06/18/24 19:04 **File ID** : V01240618Q01
LCSD Sample ID : WG1936583-4 **Analysis Date** : 06/18/24 19:30 **File ID** : V01240618Q02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	10	100	10	10	100	0	70-130	20
1,2-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,3-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,4-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
Methyl tert butyl ether	10	9.6	96	10	9.6	96	0	63-130	20
p/m-Xylene	20	21	105	20	21	105	0	70-130	20
o-Xylene	20	21	105	20	21	105	0	70-130	20
cis-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20
Styrene	20	21	105	20	21	105	0	70-130	20
Dichlorodifluoromethane	10	9.4	94	10	9.5	95	1	36-147	20
Acetone	10	11	110	10	12	120	9	58-148	20
Carbon disulfide	10	10	100	10	10	100	0	51-130	20
2-Butanone	10	12	120	10	12	120	0	63-138	20
4-Methyl-2-pentanone	10	9.5	95	10	9.7	97	2	59-130	20
2-Hexanone	10	8.7	87	10	8.4	84	4	57-130	20
Bromochloromethane	10	11	110	10	10	100	10	70-130	20
1,2-Dibromoethane	10	11	110	10	11	110	0	70-130	20
1,2-Dibromo-3-chloropropane	10	10	100	10	10	100	0	41-144	20
Isopropylbenzene	10	11	110	10	11	110	0	70-130	20
1,2,3-Trichlorobenzene	10	8.7	87	10	9.4	94	8	70-130	20
1,2,4-Trichlorobenzene	10	8.5	85	10	8.8	88	3	70-130	20
Methyl Acetate	10	12	120	10	11	110	9	70-130	20
Cyclohexane	10	10	100	10	11	110	10	70-130	20
Freon-113	10	11	110	10	11	110	0	70-130	20
Methyl cyclohexane	10	11	110	10	11	110	0	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 02:53
Matrix Spike	: WG1936583-6	**MS Analysis Date**	: 06/19/24 05:28
Matrix Spike Dup	: WG1936583-7	**MSD Analysis Date**	: 06/19/24 05:54

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	9.7	97	10	9.8	98	1	70-130	20
1,1-Dichloroethane	ND	10	11	110	10	11	110	0	70-130	20
Chloroform	ND	10	11	110	10	11	110	0	70-130	20
Carbon tetrachloride	ND	10	12	120	10	12	120	0	63-132	20
1,2-Dichloropropane	0.89J	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	ND	10	9.1	91	10	9.2	92	1	63-130	20
1,1,2-Trichloroethane	ND	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	1.1	10	11	99	10	10	89	10	70-130	20
Chlorobenzene	ND	10	10	100	10	10	100	0	75-130	20
Trichlorofluoromethane	ND	10	11	110	10	11	110	0	62-150	20
1,2-Dichloroethane	ND	10	10	100	10	10	100	0	70-130	20
1,1,1-Trichloroethane	ND	10	12	120	10	12	120	0	67-130	20
Bromodichloromethane	ND	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.0	90	10	8.8	88	2	70-130	20
cis-1,3-Dichloropropene	ND	10	8.3	83	10	8.6	86	4	70-130	20
Bromoform	ND	10	8.3	83	10	8.4	84	1	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	11	110	10	12	120	9	67-130	20
Benzene	ND	10	11	110	10	11	110	0	70-130	20
Toluene	ND	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	ND	10	11	110	10	11	110	0	70-130	20
Chloromethane	ND	10	8.5	85	10	9.1	91	7	64-130	20
Bromomethane	ND	10	3.4	34 Q	10	4.7	47	32 Q	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 02:53
Matrix Spike	: WG1936583-6	**MS Analysis Date**	: 06/19/24 05:28
Matrix Spike Dup	: WG1936583-7	**MSD Analysis Date**	: 06/19/24 05:54

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	11	110	10	12	120	9	55-140	20
Chloroethane	ND	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	0.41J	10	10	100	10	10	100	0	61-145	20
trans-1,2-Dichloroethene	ND	10	10	100	10	11	110	10	70-130	20
Trichloroethene	ND	10	9.9	99	10	10	100	1	70-130	20
1,2-Dichlorobenzene	ND	10	9.5	95	10	9.7	97	2	70-130	20
1,3-Dichlorobenzene	ND	10	9.6	96	10	9.9	99	3	70-130	20
1,4-Dichlorobenzene	ND	10	9.3	93	10	9.8	98	5	70-130	20
Methyl tert butyl ether	ND	10	7.9	79	10	8.3	83	5	63-130	20
p/m-Xylene	ND	20	21	105	20	21	105	0	70-130	20
o-Xylene	ND	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	ND	10	10	100	10	10	100	0	70-130	20
Styrene	ND	20	19	95	20	20	100	5	70-130	20
Dichlorodifluoromethane	ND	10	9.7	97	10	10	100	3	36-147	20
Acetone	ND	10	7.2	72	10	8.0	80	11	58-148	20
Carbon disulfide	ND	10	10	100	10	11	110	10	51-130	20
2-Butanone	ND	10	8.2	82	10	8.6	86	5	63-138	20
4-Methyl-2-pentanone	ND	10	6.8	68	10	7.0	70	3	59-130	20
2-Hexanone	ND	10	6.6	66	10	6.3	63	5	57-130	20
Bromochloromethane	ND	10	9.7	97	10	9.9	99	2	70-130	20
1,2-Dibromoethane	ND	10	9.4	94	10	9.2	92	2	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	7.6	76	10	7.9	79	4	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 02:53
Matrix Spike	: WG1936583-6	**MS Analysis Date**	: 06/19/24 05:28
Matrix Spike Dup	: WG1936583-7	**MSD Analysis Date**	: 06/19/24 05:54

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	10	11	110		10	11	110	0	70-130	20
1,2,3-Trichlorobenzene	ND	10	6.7	67	Q	10	7.4	74	10	70-130	20
1,2,4-Trichlorobenzene	ND	10	7.1	71		10	7.6	76	7	70-130	20
Methyl Acetate	ND	10	8.5	85		10	8.5	85	0	70-130	20
Cyclohexane	ND	10	11	110		10	11	110	0	70-130	20
Freon-113	ND	10	11	110		10	11	110	0	70-130	20
Methyl cyclohexane	ND	10	11	110		10	11	110	0	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936583-5	**Lab File ID**	: V01240618Q06
Instrument ID	: VOA101		
Matrix	: WATER	**Analysis Date**	: 06/18/24 21:14

Client Sample No.	Lab Sample ID	Analysis Date
WG1936583-3LCS	WG1936583-3	06/18/24 19:04
WG1936583-4LCSD	WG1936583-4	06/18/24 19:30
EB_06132024	L2433375-01	06/19/24 01:35
DUP_06132024	L2433375-02	06/19/24 02:01
PZ-5	L2433375-03	06/19/24 02:27
MW-5D	L2433375-04	06/19/24 02:53
MW-12S	L2433375-05	06/19/24 03:19
MW-12D	L2433375-06	06/19/24 03:45
MW-4S	L2433375-07	06/19/24 04:11
MW-4D2	L2433375-08	06/19/24 04:36
TRIP BLANK	L2433375-09	06/19/24 05:02
MW-5DMS	WG1936583-6	06/19/24 05:28
MW-5DMSD	WG1936583-7	06/19/24 05:54

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 05/07/24 17:42
Tune Standard	: WG1918530-1	**Tune File ID**	: V01240507NBF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 80.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	90.2
175	5.0 - 9.0% of mass 174	6.8 (7.6)1
176	Greater than 95.0% but less than 101% of mass	88.1 (97.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.1)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1826255-1	V01240507N03	05/07/24 18:55
STD0.5PPB	R1826255-2	V01240507N05	05/07/24 19:47
STD2PPB	R1826255-3	V01240507N07	05/07/24 20:39
STD10PPB	R1826255-4	V01240507N08	05/07/24 21:06
STD30PPB	R1826255-5	V01240507N09	05/07/24 21:32
STD80PPB	R1826255-6	V01240507N10	05/07/24 21:58
STD120PPB	R1826255-7	V01240507N11	05/07/24 22:24
STD200PPB	R1826255-8	V01240507N12	05/07/24 22:50
Correlation Data Summary	R1826255-9	V01240507N17	05/08/24 01:01
ICV Quant Report	R1826255-9	V01240507N17	05/08/24 01:01

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 06/18/24 18:44
Tune Standard	: WG1936583-1	**Tune File ID**	: V01240618QBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 80.0% of mass 95	57.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	78.9
175	5.0 - 9.0% of mass 174	6.5 (8.2)1
176	Greater than 95.0% but less than 101% of mass	76 (96.3)1
177	5.0 - 9.0% of mass 176	5 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1936583-2CCAL	WG1936583-2	V01240618Q01	06/18/24 19:04
WG1936583-3LCS	WG1936583-3	V01240618Q01	06/18/24 19:04
WG1936583-4LCSD	WG1936583-4	V01240618Q02	06/18/24 19:30
WG1936583-5BLANK	WG1936583-5	V01240618Q06	06/18/24 21:14
EB_06132024	L2433375-01	V01240618Q16	06/19/24 01:35
DUP_06132024	L2433375-02	V01240618Q17	06/19/24 02:01
PZ-5	L2433375-03	V01240618Q18	06/19/24 02:27
MW-5D	L2433375-04	V01240618Q19	06/19/24 02:53
MW-12S	L2433375-05	V01240618Q20	06/19/24 03:19
MW-12D	L2433375-06	V01240618Q21	06/19/24 03:45
MW-4S	L2433375-07	V01240618Q22	06/19/24 04:11
MW-4D2	L2433375-08	V01240618Q23	06/19/24 04:36
TRIP BLANK	L2433375-09	V01240618Q24	06/19/24 05:02
WG1936583-6MS	WG1936583-6	V01240618Q25	06/19/24 05:28
WG1936583-7MSD	WG1936583-7	V01240618Q26	06/19/24 05:54

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 06/18/24 19:04:00
Sample No	: WG1936583-2	**Lab File ID**	: V01240618Q01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1936583-2	321325	5.95	238933	9.47	136520	12.19
Upper Limit	642650	6.45	477866	9.97	273040	12.69
Lower Limit	160663	5.45	119467	8.97	68260	11.69
Sample ID						
WG1936583-3 LCS	321325	5.95	238933	9.47	136520	12.19
WG1936583-4 LCSD	331322	5.95	246327	9.47	138109	12.18
WG1936583-5 BLANK	313887	5.95	232760	9.47	114221	12.19
EB_06132024	303065	5.95	220903	9.47	106603	12.19
DUP_06132024	299349	5.95	214371	9.47	104718	12.19
PZ-5	294857	5.95	213190	9.47	103321	12.18
MW-5D	295968	5.95	214111	9.47	104704	12.19
MW-12S	299006	5.95	218994	9.47	104308	12.19
MW-12D	295471	5.95	215677	9.47	103576	12.19
MW-4S	292732	5.95	210406	9.47	103103	12.19
MW-4D2	299331	5.95	215864	9.47	105556	12.19
TRIP BLANK	293554	5.95	213769	9.47	103085	12.18
MW-5D MS	318114	5.95	233417	9.47	131384	12.18
MW-5D MSD	322842	5.95	238919	9.47	132162	12.18

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/15/23
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Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14095-1
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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14095-1
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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 01:35
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q16	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 01:35
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q16	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 01:35
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q16	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q17	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q17	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q17	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q18	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q18	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q18	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q19	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	0.89	1.0	0.14	J
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	1.1	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	0.41	0.50	0.17	J

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q19	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q19	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q20	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q20	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q20	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q21	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	2.8	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.29	0.50	0.18	J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	7.0	2.5	0.70	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	3.8	0.50	0.17	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q21	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q21	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 04:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q22	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	0.76	2.5	0.70	J
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 04:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q22	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 04:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q22	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 04:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q23	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 04:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q23	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 04:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q23	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-09	**Date Collected**	: 06/11/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 05:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q24	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-09	**Date Collected**	: 06/11/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 05:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q24	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-09	**Date Collected**	: 06/11/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 05:02
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V01240618Q24	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936583-5	**Date Collected**	: NA
Client ID	: WG1936583-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 21:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: V01240618Q06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936583-5	**Date Collected**	: NA
Client ID	: WG1936583-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 21:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: V01240618Q06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936583-5	**Date Collected**	: NA
Client ID	: WG1936583-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 21:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: V01240618Q06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q16.D
Acq On : 19 Jun 2024 1:35 am
Operator : VOA101:MJV
Sample : L2433375-01,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 06:50:13 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.952	96	303065	10.000 ug/L	0.00
Standard Area 1 = 321325			Recovery = 94.32%		
59) Chlorobenzene-d5	9.468	117	220903	10.000 ug/L	0.00
Standard Area 1 = 238933			Recovery = 92.45%		
79) 1,4-Dichlorobenzene-d4	12.187	152	106603	10.000 ug/L	0.00
Standard Area 1 = 136520			Recovery = 78.09%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.149	113	86074	10.549 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.49%		
43) 1,2-Dichloroethane-d4	5.670	65	101072	10.806 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.06%		
60) Toluene-d8	7.631	98	284078	9.860 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.60%		
83) 4-Bromofluorobenzene	10.977	95	95367	10.327 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.27%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D. d	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.285	94	29	N.D.	
6) Chloroethane	2.313	64	72	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.962	76	494	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.478	84	153	N.D.	
17) Acetone	3.528	43	3439	Below Cal #	81
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.595	43	109	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q16.D
Acq On : 19 Jun 2024 1:35 am
Operator : VOA101:MJV
Sample : L2433375-01,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 06:50:13 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.149	43	27		N.D.	
41)	Benzene	5.536	78	95		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	6.035	95	69		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	7.686	92	675		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.558	91	28		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

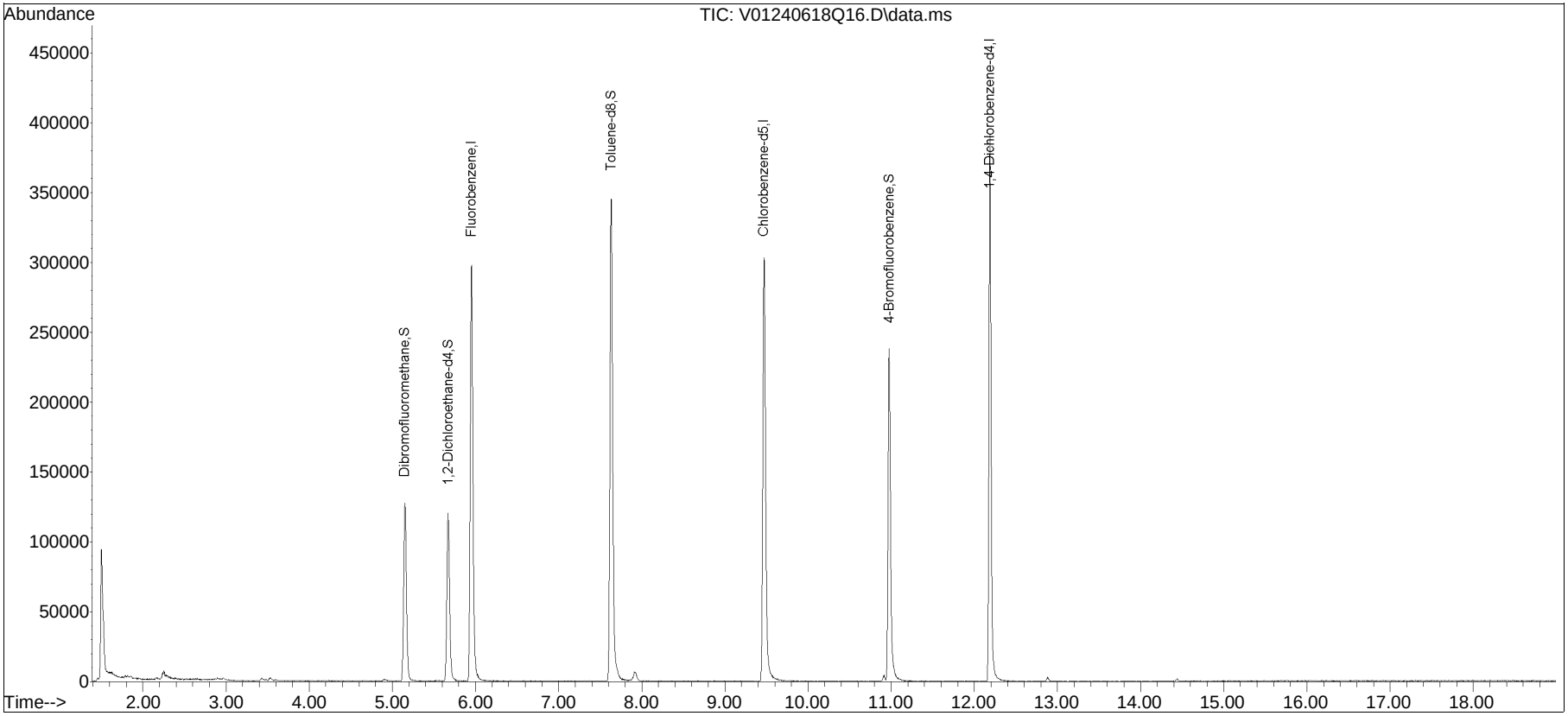
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q16.D
Acq On : 19 Jun 2024 1:35 am
Operator : VOA101:MJV
Sample : L2433375-01,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 06:50:13 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q16.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 1:35 am	Instrument	: VOA 101
Sample	: L2433375-01,31,10,10,,A	Quant Date	: 6/19/2024 5:52 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q17.D
Acq On : 19 Jun 2024 2:01 am
Operator : VOA101:MJV
Sample : L2433375-02,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 06:50:33 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	299349	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 93.16%			
59) Chlorobenzene-d5	9.468	117	214371	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 89.72%			
79) 1,4-Dichlorobenzene-d4	12.187	152	104718	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 76.71%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.152	113	84058	10.430	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.30%			
43) 1,2-Dichloroethane-d4	5.670	65	99277	10.745	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.45%			
60) Toluene-d8	7.631	98	280449	10.031	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
83) 4-Bromofluorobenzene	10.974	95	94314	10.396	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.246	64	93	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.476	84	70	N.D.		
17) Acetone	3.526	43	2069	Below Cal #		59
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.582	43	82	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q17.D
Acq On : 19 Jun 2024 2:01 am
Operator : VOA101:MJV
Sample : L2433375-02,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 06:50:33 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.522	78	27		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.496	91	34		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

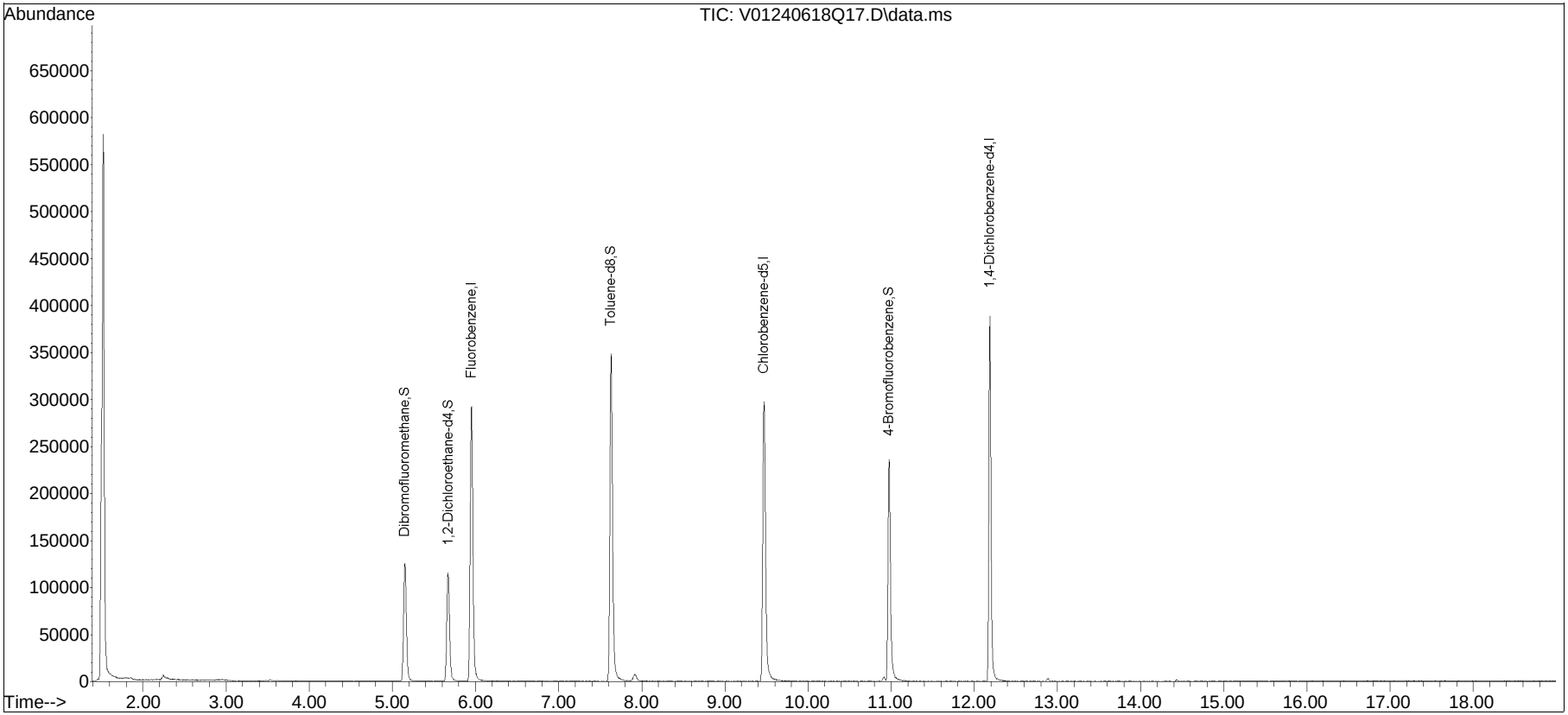
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q17.D
Acq On : 19 Jun 2024 2:01 am
Operator : VOA101:MJV
Sample : L2433375-02,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 06:50:33 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q17.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 2:01 am	Instrument	: VOA 101
Sample	: L2433375-02,31,10,10,,A	Quant Date	: 6/19/2024 5:52 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q18.D
Acq On : 19 Jun 2024 2:27 am
Operator : VOA101:MJV
Sample : L2433375-03,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 06:50:44 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.952	96	294857	10.000 ug/L	0.00
Standard Area 1 = 321325			Recovery = 91.76%		
59) Chlorobenzene-d5	9.471	117	213190	10.000 ug/L	0.00
Standard Area 1 = 238933			Recovery = 89.23%		
79) 1,4-Dichlorobenzene-d4	12.184	152	103321	10.000 ug/L	0.00
Standard Area 1 = 136520			Recovery = 75.68%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.154	113	84875	10.691 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.91%		
43) 1,2-Dichloroethane-d4	5.667	65	99878	10.975 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.75%		
60) Toluene-d8	7.630	98	281752	10.133 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.33%		
83) 4-Bromofluorobenzene	10.974	95	92220	10.303 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.03%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.209	94	31	N.D.	
6) Chloroethane	2.313	64	25	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.962	76	426	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.475	84	89	N.D.	
17) Acetone	3.534	43	1910	Below Cal #	55
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	4.797	96	30	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q18.D
Acq On : 19 Jun 2024 2:27 am
Operator : VOA101:MJV
Sample : L2433375-03,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 06:50:44 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.528	78	37		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.033	95	71		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.485	91	87		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

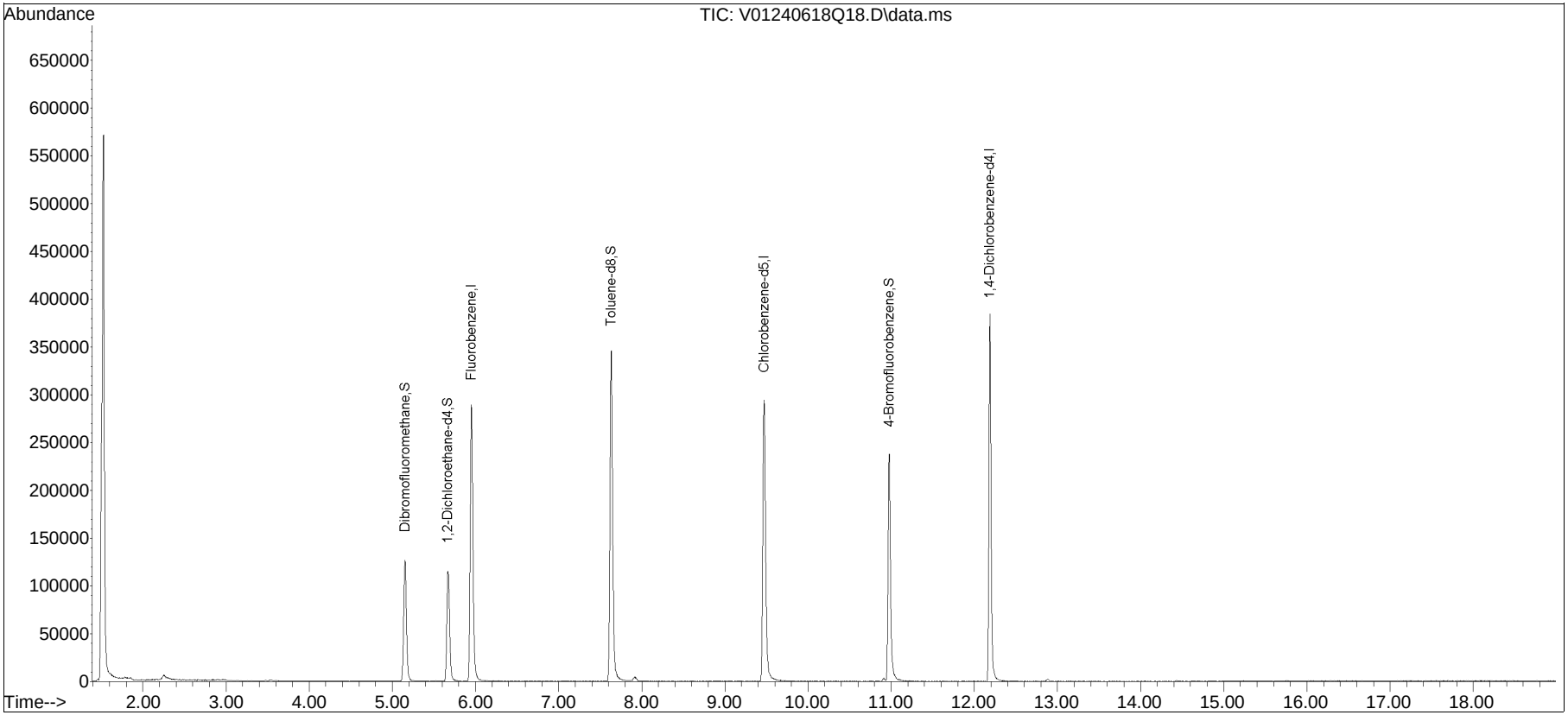
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q18.D
Acq On : 19 Jun 2024 2:27 am
Operator : VOA101:MJV
Sample : L2433375-03,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 06:50:44 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q18.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 2:27 am	Instrument	: VOA 101
Sample	: L2433375-03,31,10,10,,A	Quant Date	: 6/19/2024 5:52 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q19.D
Acq On : 19 Jun 2024 2:53 am
Operator : VOA101:MJV
Sample : L2433375-04,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 06:51:07 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.952	96	295968	10.000 ug/L	0.00
Standard Area 1 = 321325			Recovery = 92.11%		
59) Chlorobenzene-d5	9.474	117	214111	10.000 ug/L	0.00
Standard Area 1 = 238933			Recovery = 89.61%		
79) 1,4-Dichlorobenzene-d4	12.187	152	104704	10.000 ug/L	0.00
Standard Area 1 = 136520			Recovery = 76.69%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.151	113	84510	10.605 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.05%		
43) 1,2-Dichloroethane-d4	5.673	65	98620	10.796 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.96%		
60) Toluene-d8	7.633	98	281462	10.079 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.79%		
83) 4-Bromofluorobenzene	10.974	95	93695	10.329 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.29%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.223	94	28	N.D.	
6) Chloroethane	2.324	64	26	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.934	96	2279	0.409 ug/L #	84
11) Carbon disulfide	2.959	76	414	N.D.	
12) Freon-113	0.000		0	N.D. d	
15) Methylene chloride	3.481	84	187	N.D.	
17) Acetone	3.528	43	862	Below Cal #	42
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.634	43	31	N.D.	
20) Methyl tert-butyl ether	3.729	73	679	N.D.	
23) 1,1-Dichloroethane	4.203	63	7388	0.578 ug/L	75
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	4.978	83	4025M1	0.320 ug/L	
34) Carbon tetrachloride	0.000		0	N.D. d	

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q19.D
Acq On : 19 Jun 2024 2:53 am
Operator : VOA101:MJV
Sample : L2433375-04,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 06:51:07 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.176	97	7397	0.657	ug/L		98
39) 2-Butanone	0.000		0	N.D.			
41) Benzene	0.000		0	N.D.			
44) 1,2-Dichloroethane	0.000		0	N.D.			
47) Methyl cyclohexane	0.000		0	N.D.			
48) Trichloroethene	6.136	95	511	N.D.			
51) 1,2-Dichloropropane	6.671	63	6155	0.887	ug/L	#	76
54) Bromodichloromethane	0.000		0	N.D.			
58) cis-1,3-Dichloropropene	0.000		0	N.D.			
61) Toluene	7.703	92	33	N.D.			
62) 4-Methyl-2-pentanone	0.000		0	N.D.			
63) Tetrachloroethene	8.144	166	8353	1.109	ug/L	#	74
65) trans-1,3-Dichloropropene	0.000		0	N.D.			
68) 1,1,2-Trichloroethane	0.000		0	N.D.			
69) Chlorodibromomethane	0.000		0	N.D.			
71) 1,2-Dibromoethane	0.000		0	N.D.			
72) 2-Hexanone	0.000		0	N.D.			
73) Chlorobenzene	0.000		0	N.D.			
74) Ethylbenzene	9.482	91	71	N.D.			
76) p/m Xylene	0.000		0	N.D.			
77) o Xylene	0.000		0	N.D.			
78) Styrene	0.000		0	N.D.			
80) Bromoform	0.000		0	N.D.			
82) Isopropylbenzene	0.000		0	N.D.			
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
100) 1,3-Dichlorobenzene	0.000		0	N.D.			
101) 1,4-Dichlorobenzene	0.000		0	N.D.			
104) 1,2-Dichlorobenzene	0.000		0	N.D.			
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.			

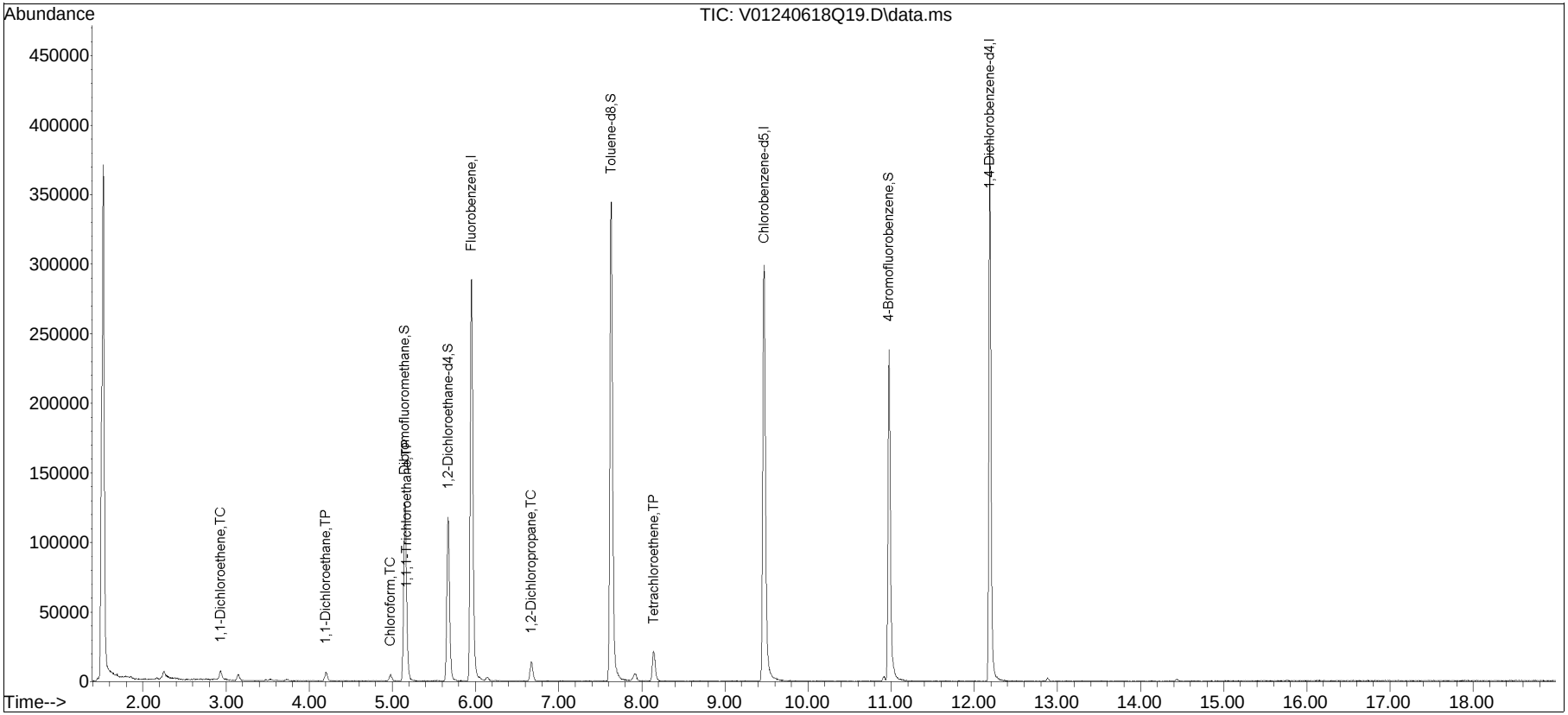
(#) = qualifier out of range (m) = manual integration (+) = signals summed

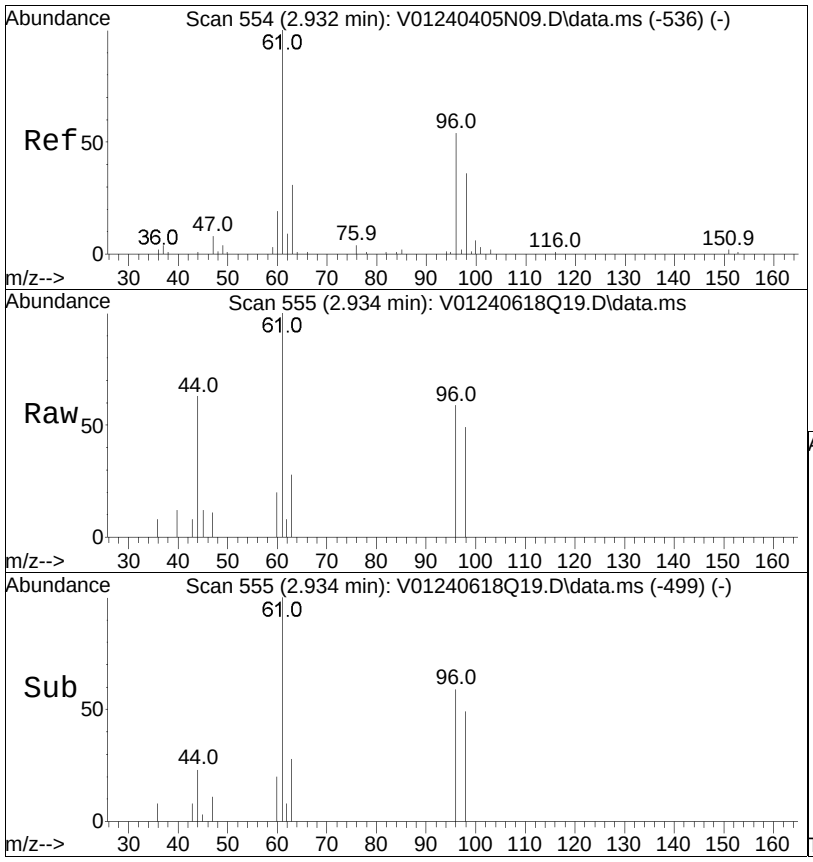
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q19.D
Acq On : 19 Jun 2024 2:53 am
Operator : VOA101:MJV
Sample : L2433375-04,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 06:51:07 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

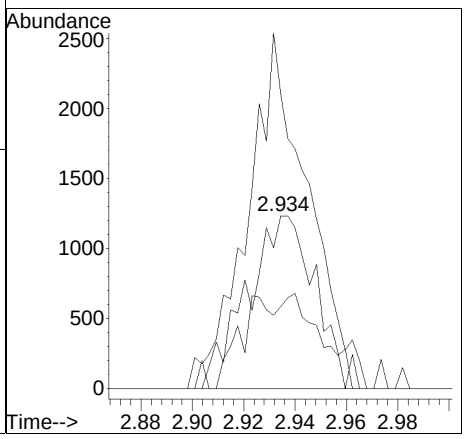


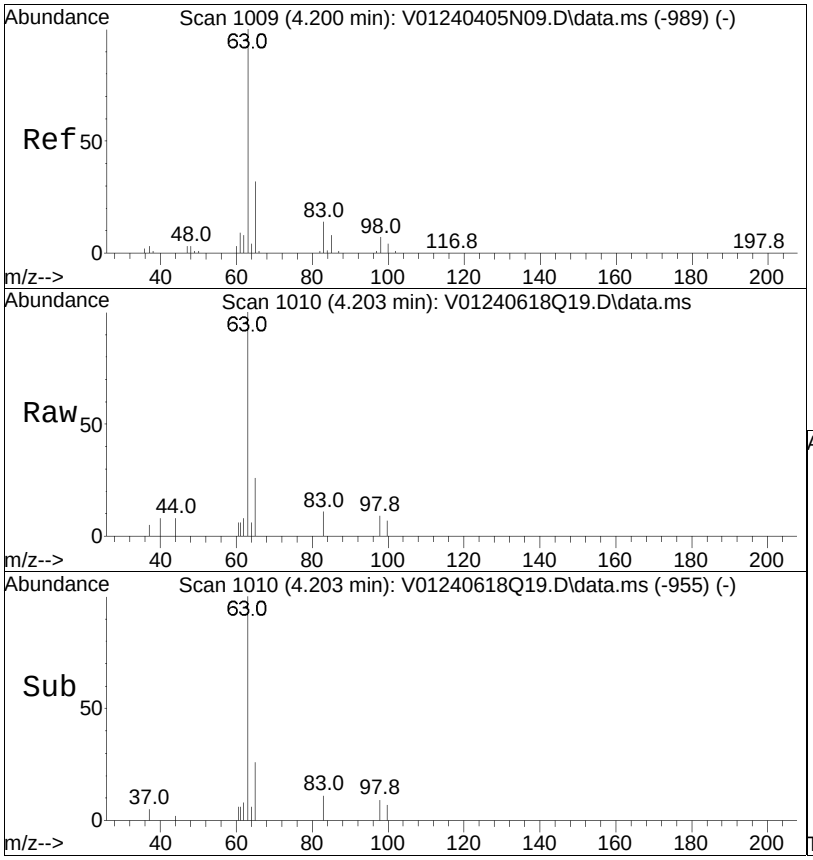


#10
1,1-Dichloroethene
Concen: 0.41 ug/L
RT: 2.934 min Scan# 555
Delta R.T. 0.005 min
Lab File: V01240618Q19.D
Acq: 19 Jun 2024 2:53 am

Tgt Ion: 96 Resp: 2279

Ion	Ratio	Lower	Upper
96	100		
61	182.6	136.8	205.2
63	26.5	43.6	65.4#

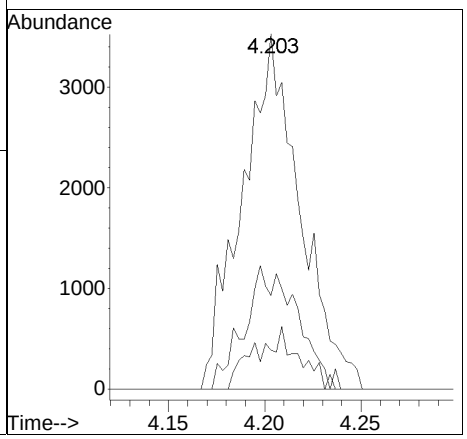


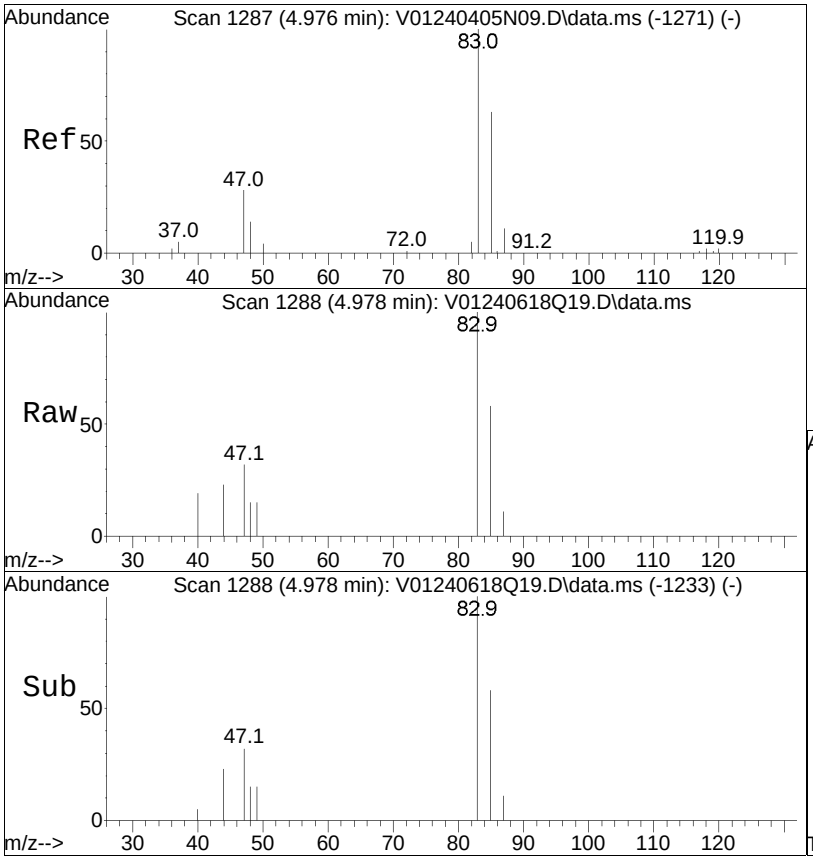


#23
1,1-Dichloroethane
Concen: 0.58 ug/L
RT: 4.203 min Scan# 1010
Delta R.T. 0.002 min
Lab File: V01240618Q19.D
Acq: 19 Jun 2024 2:53 am

Tgt Ion: 63 Resp: 7388

Ion	Ratio	Lower	Upper
63	100		
65	16.2	10.9	50.9
83	4.2	0.0	33.0

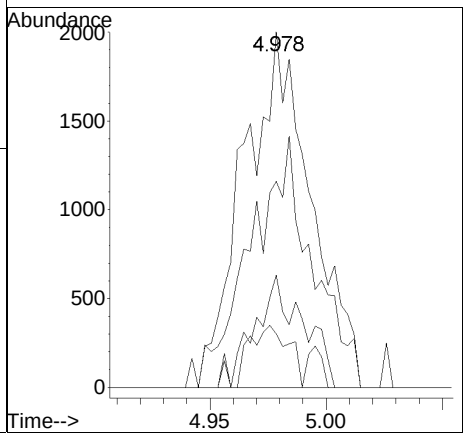


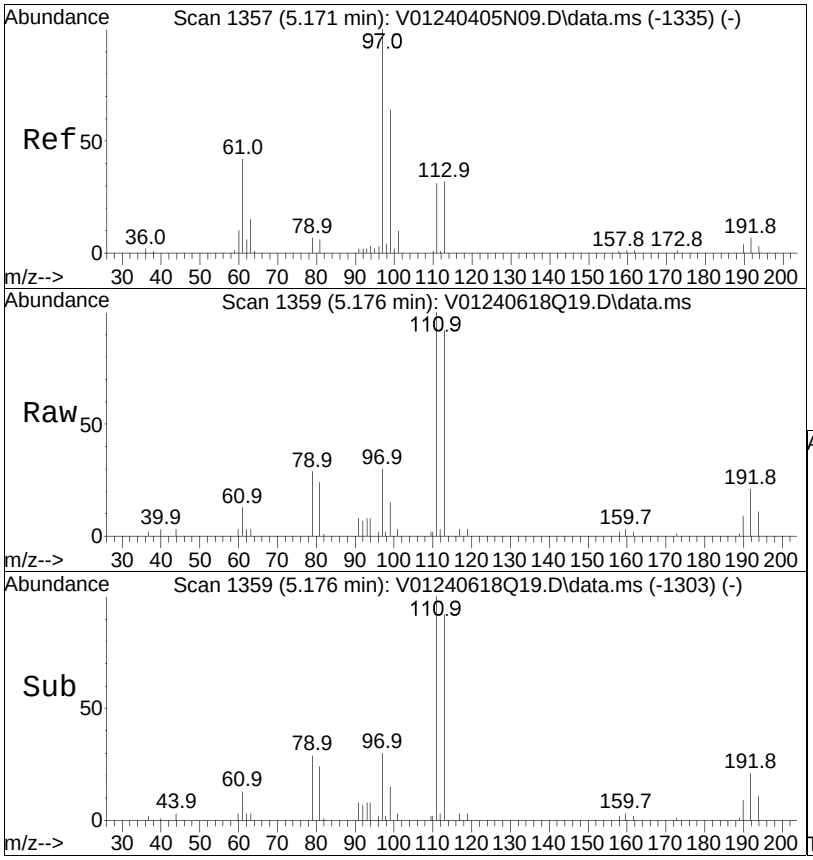


#32
Chloroform
Concen: 0.32 ug/L M1
RT: 4.978 min Scan# 1288
Delta R.T. 0.002 min
Lab File: V01240618Q19.D
Acq: 19 Jun 2024 2:53 am

Tgt Ion: 83 Resp: 4025

Ion	Ratio	Lower	Upper
83	100		
85	64.7	42.3	87.8
47	14.9	17.8	37.0#
48	10.2	9.3	19.3

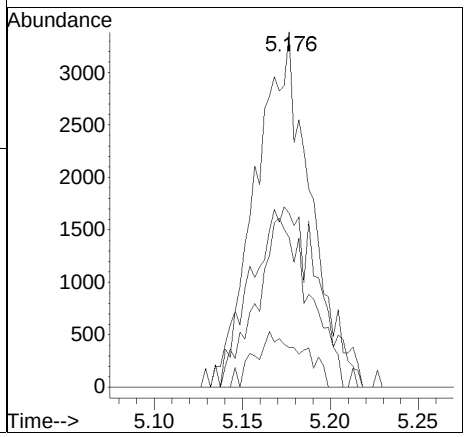


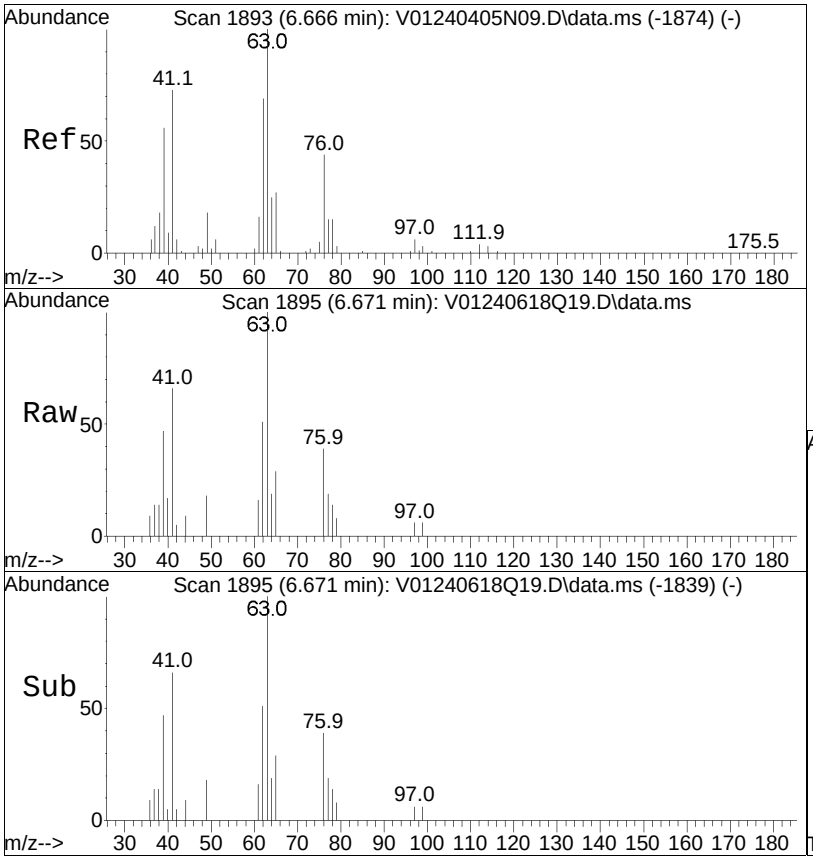


#37
1,1,1-Trichloroethane
Concen: 0.66 ug/L
RT: 5.176 min Scan# 1359
Delta R.T. 0.005 min
Lab File: V01240618Q19.D
Acq: 19 Jun 2024 2:53 am

Tgt Ion: 97 Resp: 7397

Ion	Ratio	Lower	Upper
97	100		
99	61.2	41.7	86.7
61	45.8	29.4	61.2
63	13.7	9.4	19.4

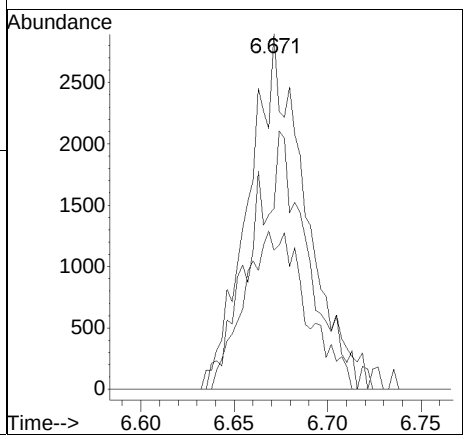


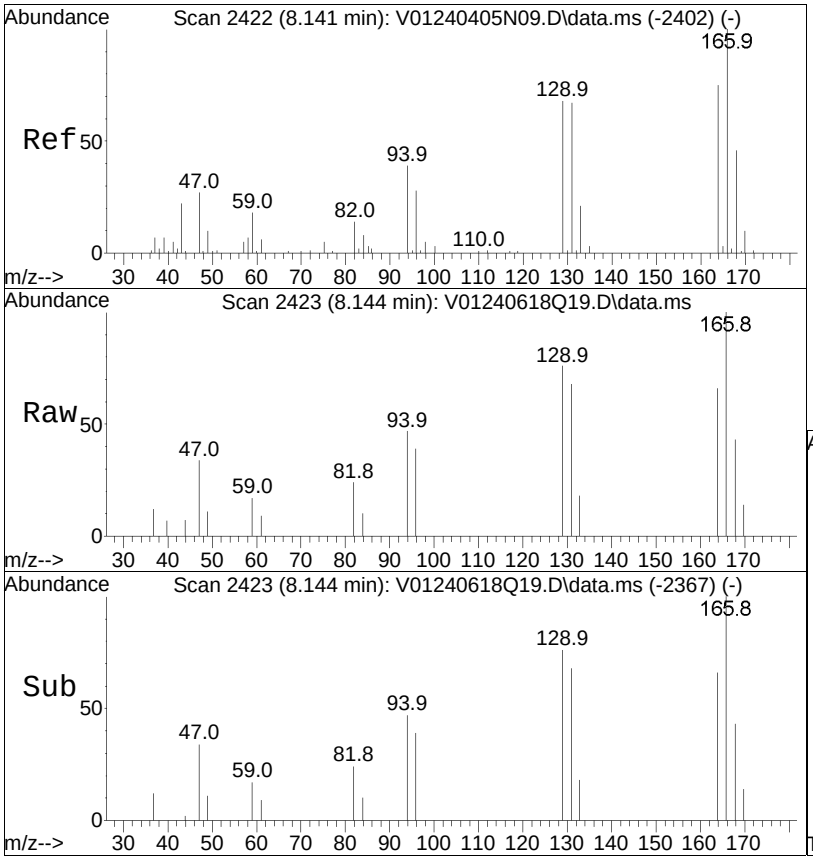


#51
1,2-Dichloropropane
Concen: 0.89 ug/L
RT: 6.671 min Scan# 1895
Delta R.T. 0.005 min
Lab File: V01240618Q19.D
Acq: 19 Jun 2024 2:53 am

Tgt Ion: 63 Resp: 6155

Ion	Ratio	Lower	Upper
63	100		
62	44.5	57.2	85.8#
76	48.7	33.6	50.4

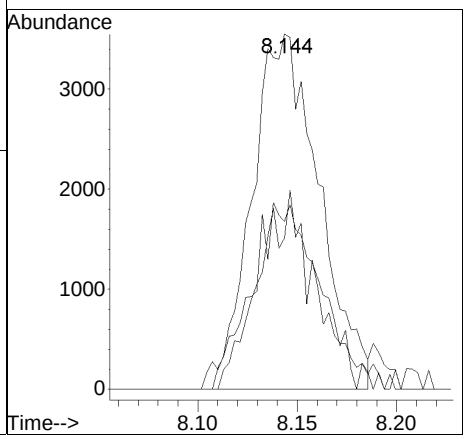




#63
Tetrachloroethene
Concen: 1.11 ug/L
RT: 8.144 min Scan# 2423
Delta R.T. 0.006 min
Lab File: V01240618Q19.D
Acq: 19 Jun 2024 2:53 am

Tgt Ion:166 Resp: 8353

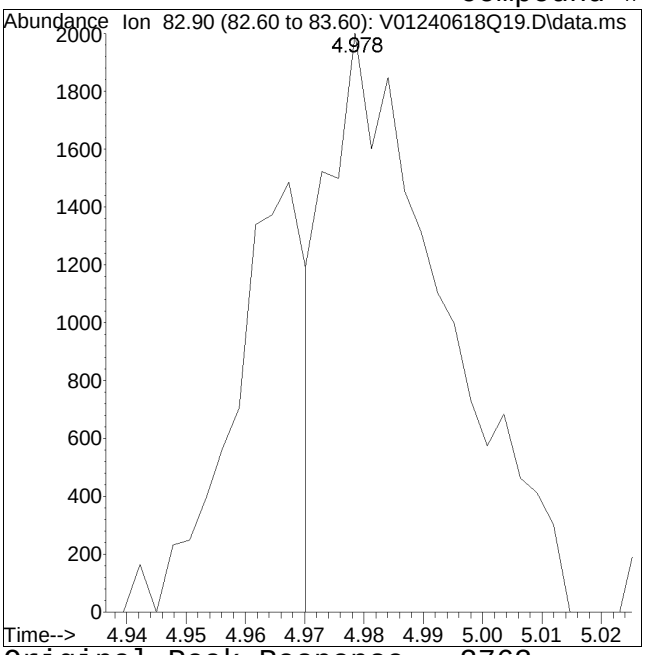
Ion	Ratio	Lower	Upper
166	100		
168	20.0	27.4	67.4#
94	51.8	24.8	64.8



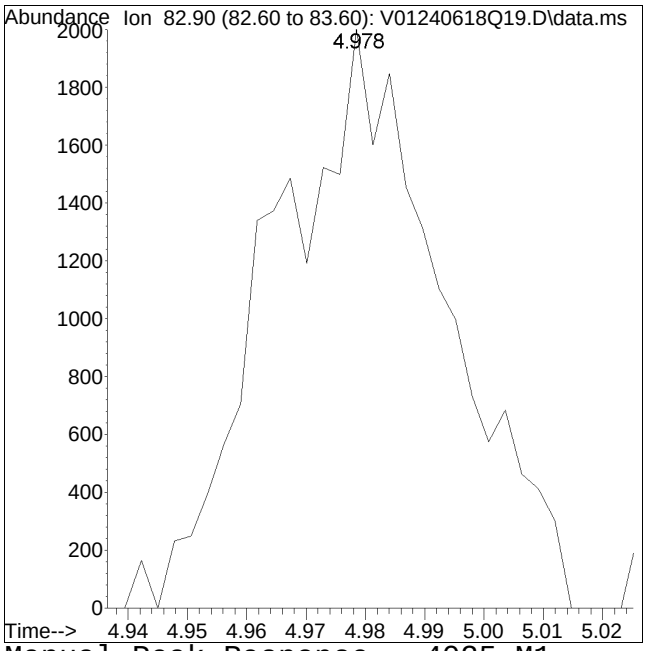
Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q19.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 2:53 am	Instrument	: VOA 101
Sample	: L2433375-04,31,10,10,,A	Quant Date	: 6/19/2024 5:52 am

Compound #32: Chloroform



Original Peak Response = 2763



Manual Peak Response = 4025 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q20.D
Acq On : 19 Jun 2024 3:19 am
Operator : VOA101:MJV
Sample : L2433375-05,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 06:51:26 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	299006	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 93.05%			
59) Chlorobenzene-d5	9.471	117	218994	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 91.65%			
79) 1,4-Dichlorobenzene-d4	12.187	152	104308	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 76.40%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.149	113	85357	10.603	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.03%			
43) 1,2-Dichloroethane-d4	5.673	65	99310	10.761	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.61%			
60) Toluene-d8	7.633	98	282429	9.888	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.88%			
83) 4-Bromofluorobenzene	10.974	95	95270	10.543	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.43%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D. d		
6) Chloroethane	2.343	64	25	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.965	76	380	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.478	84	115	N.D.		
17) Acetone	3.523	43	590	Below Cal #		61
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.573	43	184	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.979	83	750	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q20.D
Acq On : 19 Jun 2024 3:19 am
Operator : VOA101:MJV
Sample : L2433375-05,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 06:51:26 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.038	95	135		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.700	92	34		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.482	91	130		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

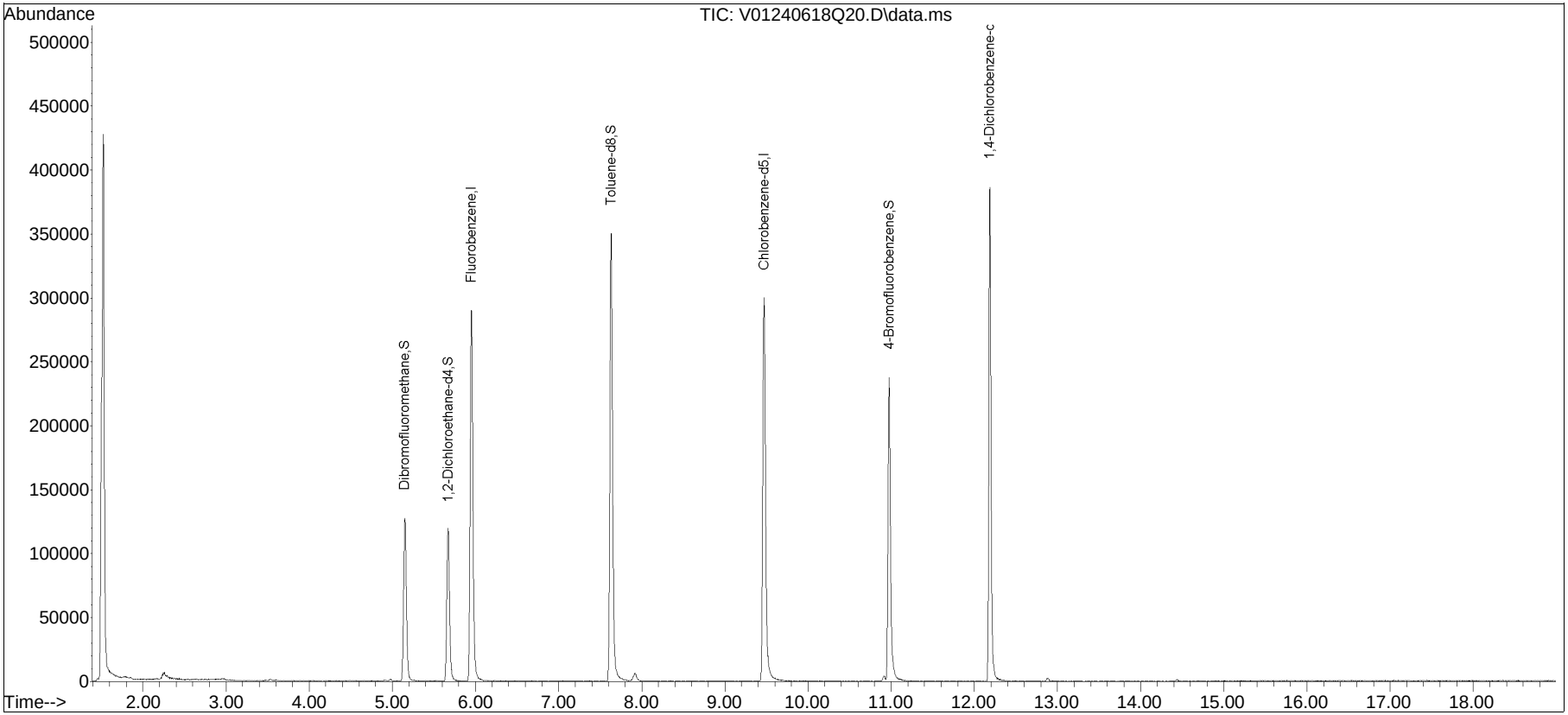
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q20.D
Acq On : 19 Jun 2024 3:19 am
Operator : VOA101:MJV
Sample : L2433375-05,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 06:51:26 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q20.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 3:19 am	Instrument	: VOA 101
Sample	: L2433375-05,31,10,10,,A	Quant Date	: 6/19/2024 5:52 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V0124061 8Q21.D
Acq On : 19 Jun 2024 3:45 am
Operator : VOA101:MJV
Sample : L2433375-06,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 06:52:20 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	295471	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 91.95%			
59) Chlorobenzene-d5	9.468	117	215677	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 90.27%			
79) 1,4-Dichlorobenzene-d4	12.187	152	103576	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 75.87%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.149	113	84951	10.679	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.79%			
43) 1,2-Dichloroethane-d4	5.670	65	99392	10.899	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.99%			
60) Toluene-d8	7.630	98	281249	9.999	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.99%			
83) 4-Bromofluorobenzene	10.977	95	95025	10.590	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.218	94	28	N.D.		
6) Chloroethane	2.335	64	28	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.929	96	21323	3.838	ug/L	92
11) Carbon disulfide	2.954	76	269	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.478	84	178	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.645	43	37	N.D.		
20) Methyl tert-butyl ether	3.729	73	70	N.D.		
23) 1,1-Dichloroethane	4.198	63	36141	2.831	ug/L	99
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.973	83	2753M1	0.219	ug/L	
34) Carbon tetrachloride	0.000		0	N.D. d		

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q21.D
Acq On : 19 Jun 2024 3:45 am
Operator : VOA101:MJV
Sample : L2433375-06,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 06:52:20 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.168	97	79340	7.056	ug/L	100
39) 2-Butanone	0.000		0	N.D.	d	
41) Benzene	5.558	78	25	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	6.139	95	150	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.692	92	25	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.144	166	2188M3	0.288	ug/L	
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.463	91	119	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

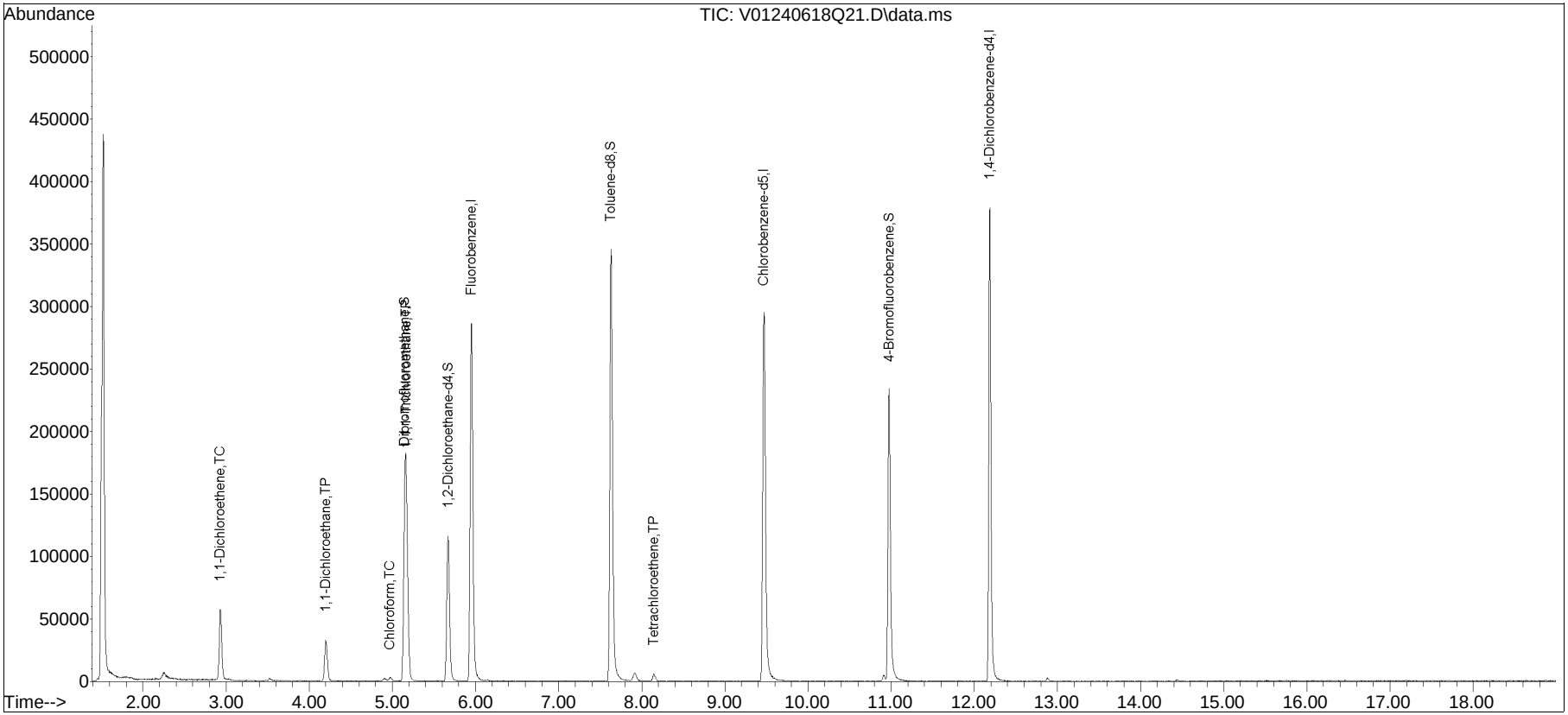
(#) = qualifier out of range (m) = manual integration (+) = signals summed

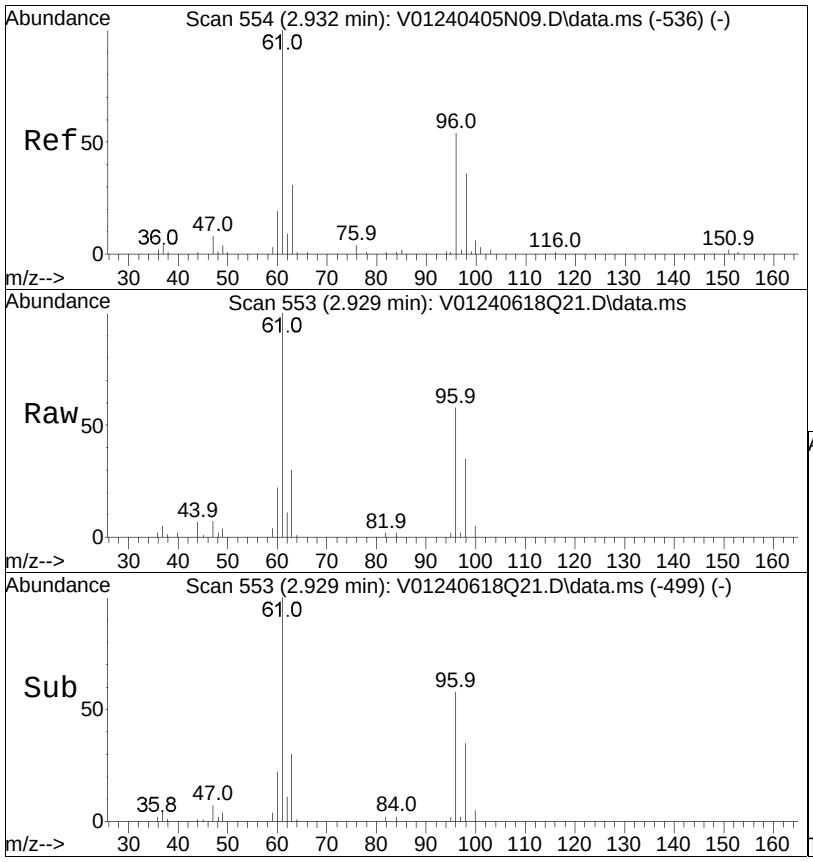
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q21.D
Acq On : 19 Jun 2024 3:45 am
Operator : VOA101:MJV
Sample : L2433375-06,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 06:52:20 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

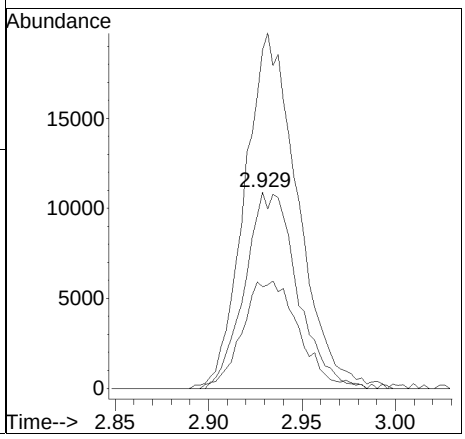


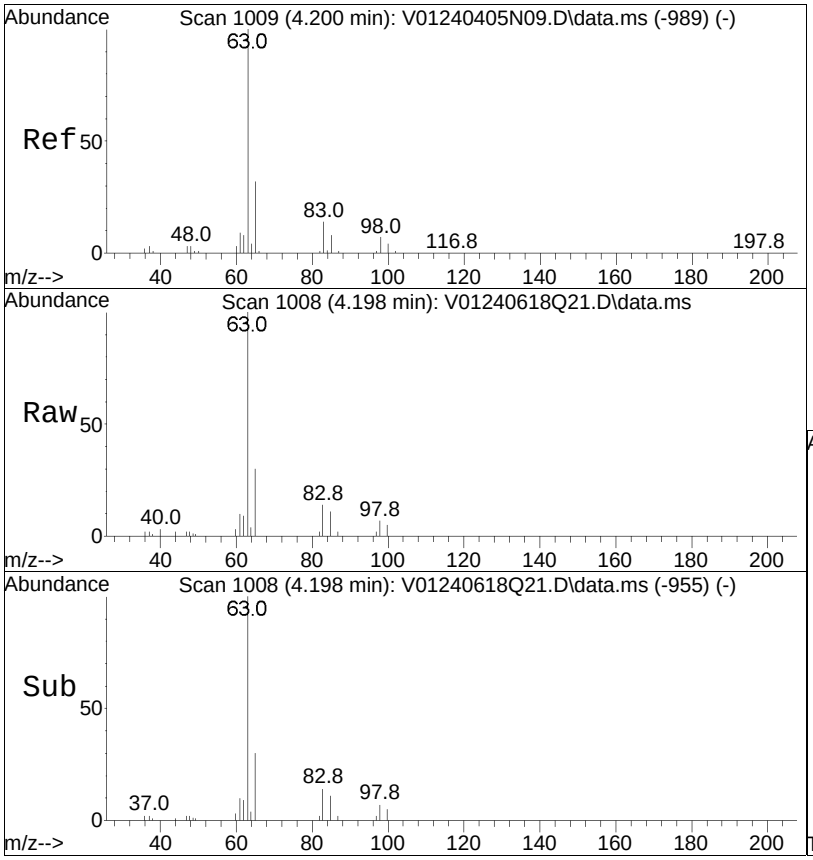


#10
1,1-Dichloroethene
Concen: 3.84 ug/L
RT: 2.929 min Scan# 553
Delta R.T. -0.000 min
Lab File: V01240618Q21.D
Acq: 19 Jun 2024 3:45 am

Tgt Ion: 96 Resp: 21323

Ion	Ratio	Lower	Upper
96	100		
61	183.3	136.8	205.2
63	59.0	43.6	65.4

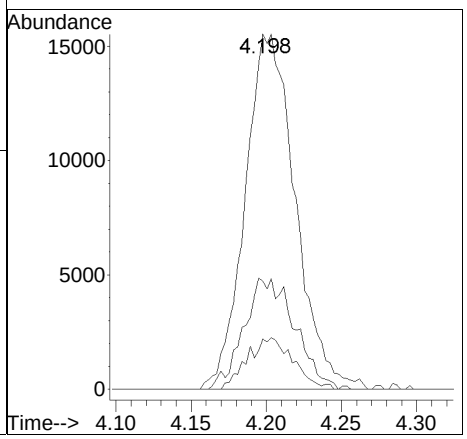


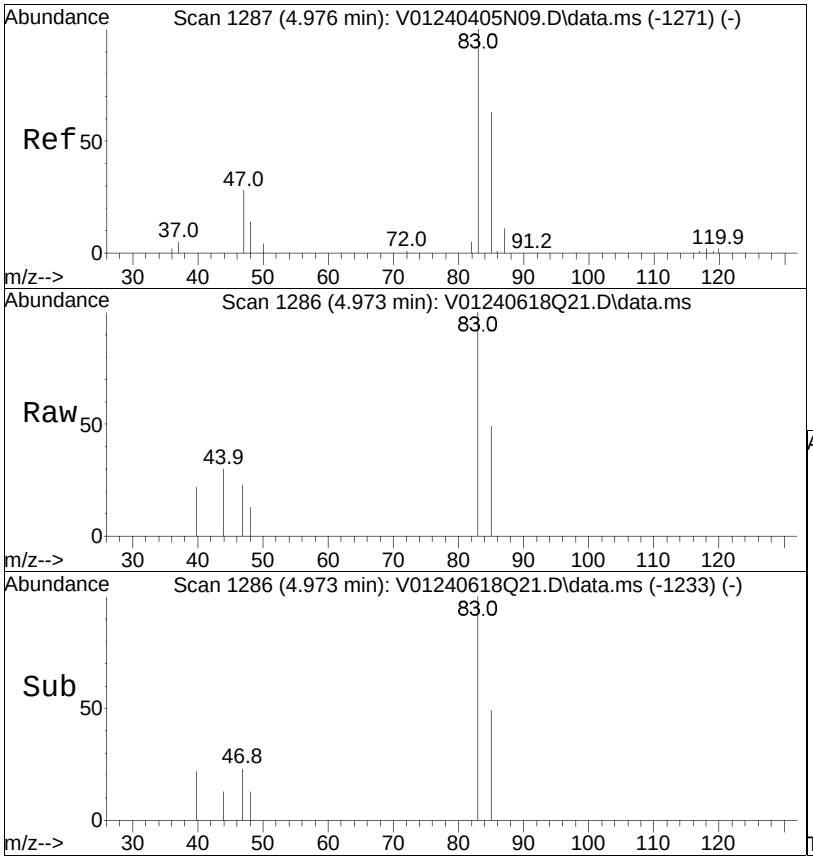


#23
1,1-Dichloroethane
Concen: 2.83 ug/L
RT: 4.198 min Scan# 1008
Delta R.T. -0.003 min
Lab File: V01240618Q21.D
Acq: 19 Jun 2024 3:45 am

Tgt Ion: 63 Resp: 36141

Ion	Ratio	Lower	Upper
63	100		
65	31.7	10.9	50.9
83	13.3	0.0	33.0

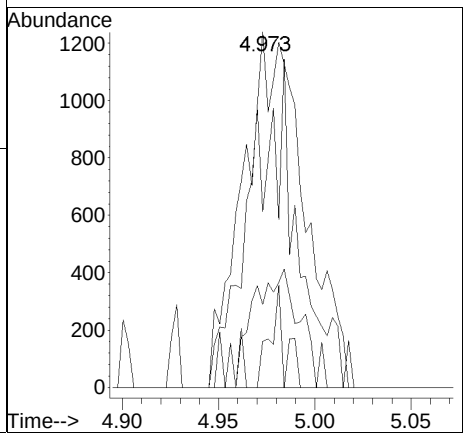


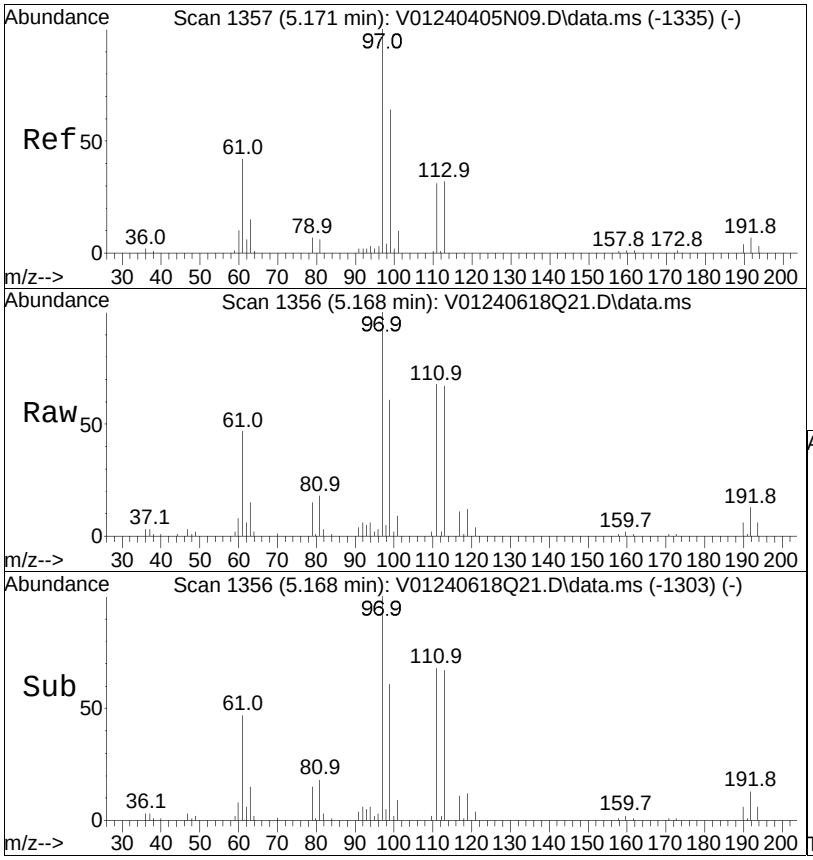


#32
Chloroform
Concen: 0.22 ug/L M1
RT: 4.973 min Scan# 1286
Delta R.T. -0.003 min
Lab File: V01240618Q21.D
Acq: 19 Jun 2024 3:45 am

Tgt Ion: 83 Resp: 2753

Ion	Ratio	Lower	Upper
83	100		
85	27.9	42.3	87.8#
47	8.0	17.8	37.0#
48	7.2	9.3	19.3#

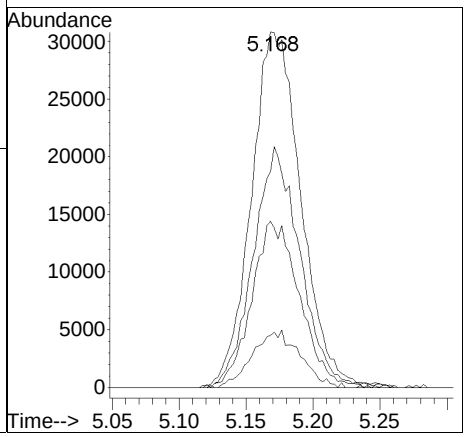


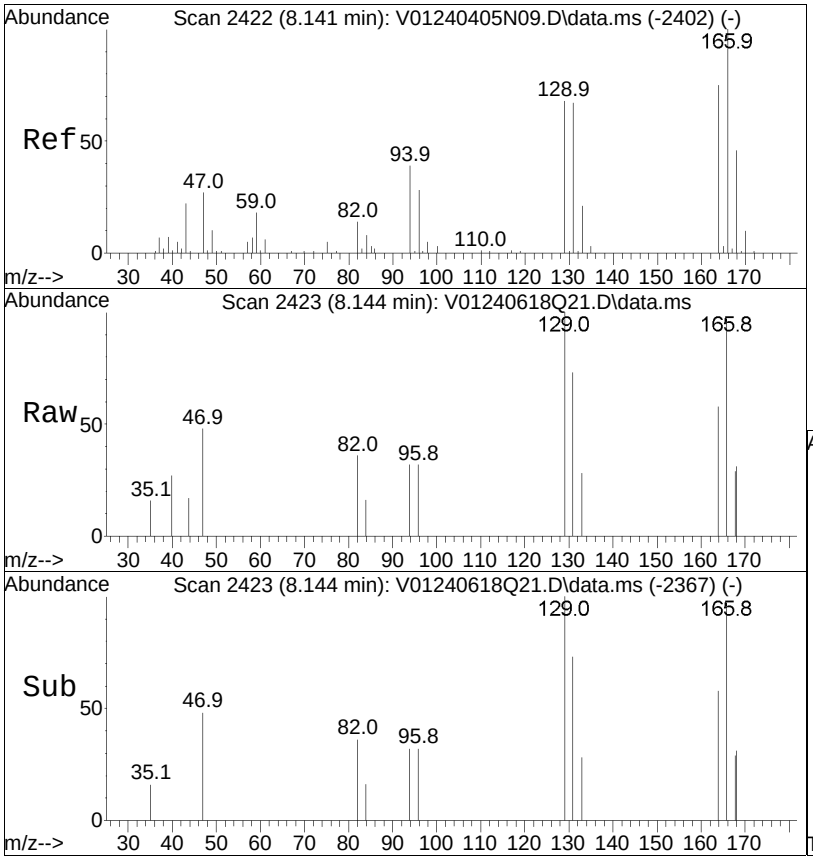


#37
1,1,1-Trichloroethane
Concen: 7.06 ug/L
RT: 5.168 min Scan# 1356
Delta R.T. -0.003 min
Lab File: V01240618Q21.D
Acq: 19 Jun 2024 3:45 am

Tgt Ion: 97 Resp: 79340

Ion	Ratio	Lower	Upper
97	100		
99	64.0	41.7	86.7
61	45.2	29.4	61.2
63	15.2	9.4	19.4

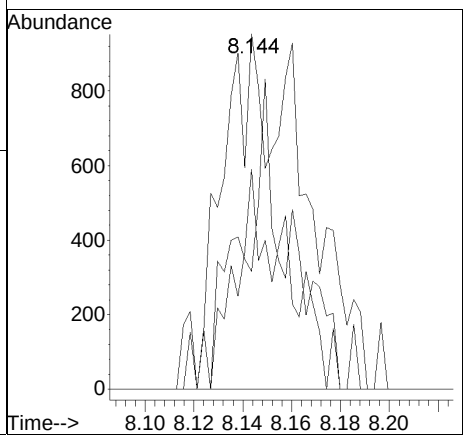




#63
Tetrachloroethene
Concen: 0.29 ug/L M3
RT: 8.144 min Scan# 2423
Delta R.T. 0.006 min
Lab File: V01240618Q21.D
Acq: 19 Jun 2024 3:45 am

Tgt Ion:166 Resp: 2188

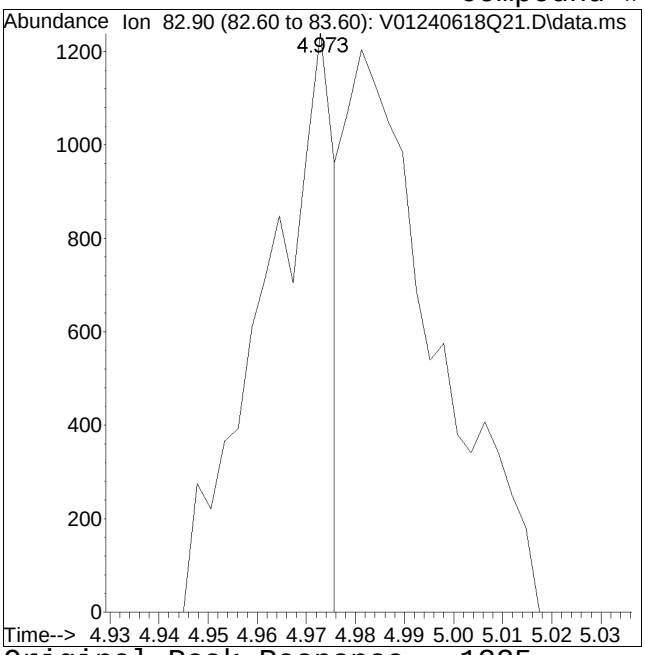
Ion	Ratio	Lower	Upper
166	100		
168	22.8	27.4	67.4#
94	17.5	24.8	64.8#



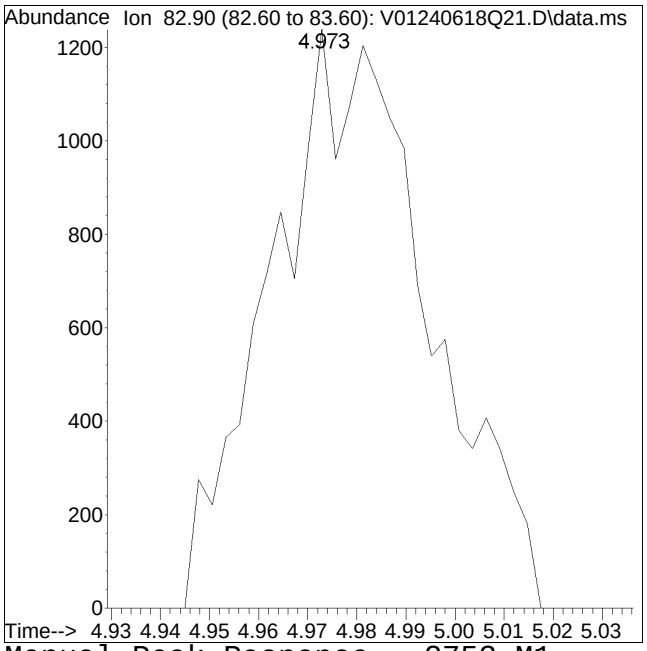
Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q21.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 3:45 am	Instrument	: VOA 101
Sample	: L2433375-06,31,10,10,,A	Quant Date	: 6/19/2024 5:53 am

Compound #32: Chloroform



Original Peak Response = 1225



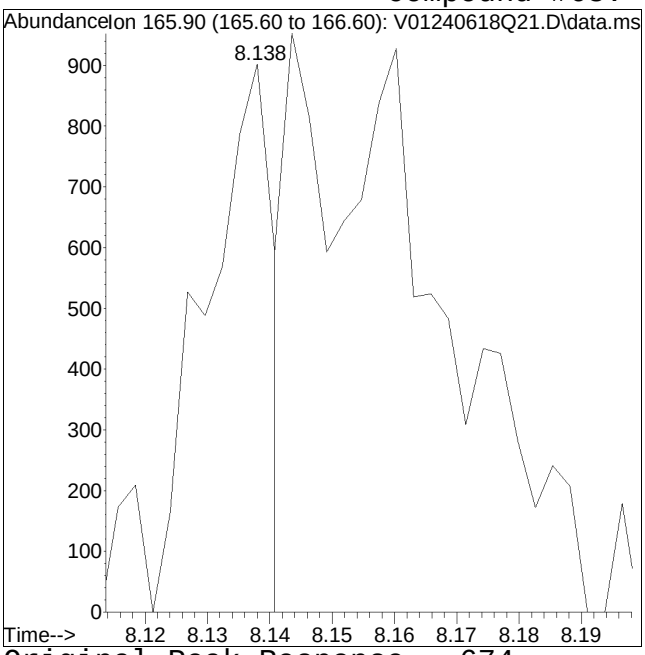
Manual Peak Response = 2753 M1

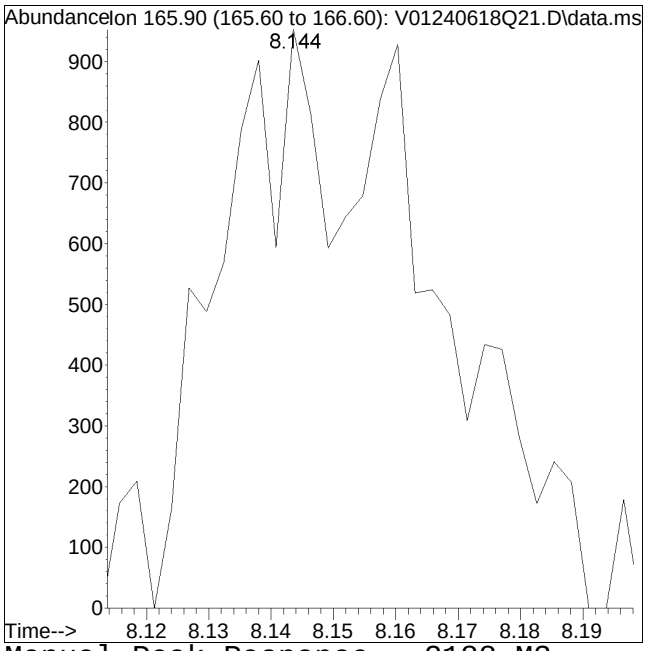
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240618Q\ QMethod : V101_240507N_8260.m
Data File : V01240618Q21.D Operator : VOA101:MJV
Date Inj'd : 6/19/2024 3:45 am Instrument : VOA 101
Sample : L2433375-06,31,10,10,,A Quant Date : 6/19/2024 5:53 am

Compound #63: Tetrachloroethene





Original Peak Response = 674 Manual Peak Response = 2188 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q22.D
Acq On : 19 Jun 2024 4:11 am
Operator : VOA101:MJV
Sample : L2433375-07,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 19 06:52:29 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.952	96	292732	10.000 ug/L	0.00
Standard Area 1 = 321325			Recovery = 91.10%		
59) Chlorobenzene-d5	9.468	117	210406	10.000 ug/L	0.00
Standard Area 1 = 238933			Recovery = 88.06%		
79) 1,4-Dichlorobenzene-d4	12.187	152	103103	10.000 ug/L	0.00
Standard Area 1 = 136520			Recovery = 75.52%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.149	113	84042	10.663 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.63%		
43) 1,2-Dichloroethane-d4	5.673	65	97634	10.806 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.06%		
60) Toluene-d8	7.631	98	280158	10.209 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.09%		
83) 4-Bromofluorobenzene	10.974	95	92211	10.324 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.24%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.232	94	25	N.D.	
6) Chloroethane	2.357	64	25	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.974	96	25	N.D.	
11) Carbon disulfide	2.957	76	190	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.478	84	63	N.D.	
17) Acetone	3.537	43	1915	Below Cal #	75
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	4.973	83	9392	0.755 ug/L #	96
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q22.D
Acq On : 19 Jun 2024 4:11 am
Operator : VOA101:MJV
Sample : L2433375-07,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 19 06:52:29 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.036	95	286		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.633	92	25		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.488	91	77		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.187	146	27		N.D.	
101) 1,4-Dichlorobenzene	12.187	146	27		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

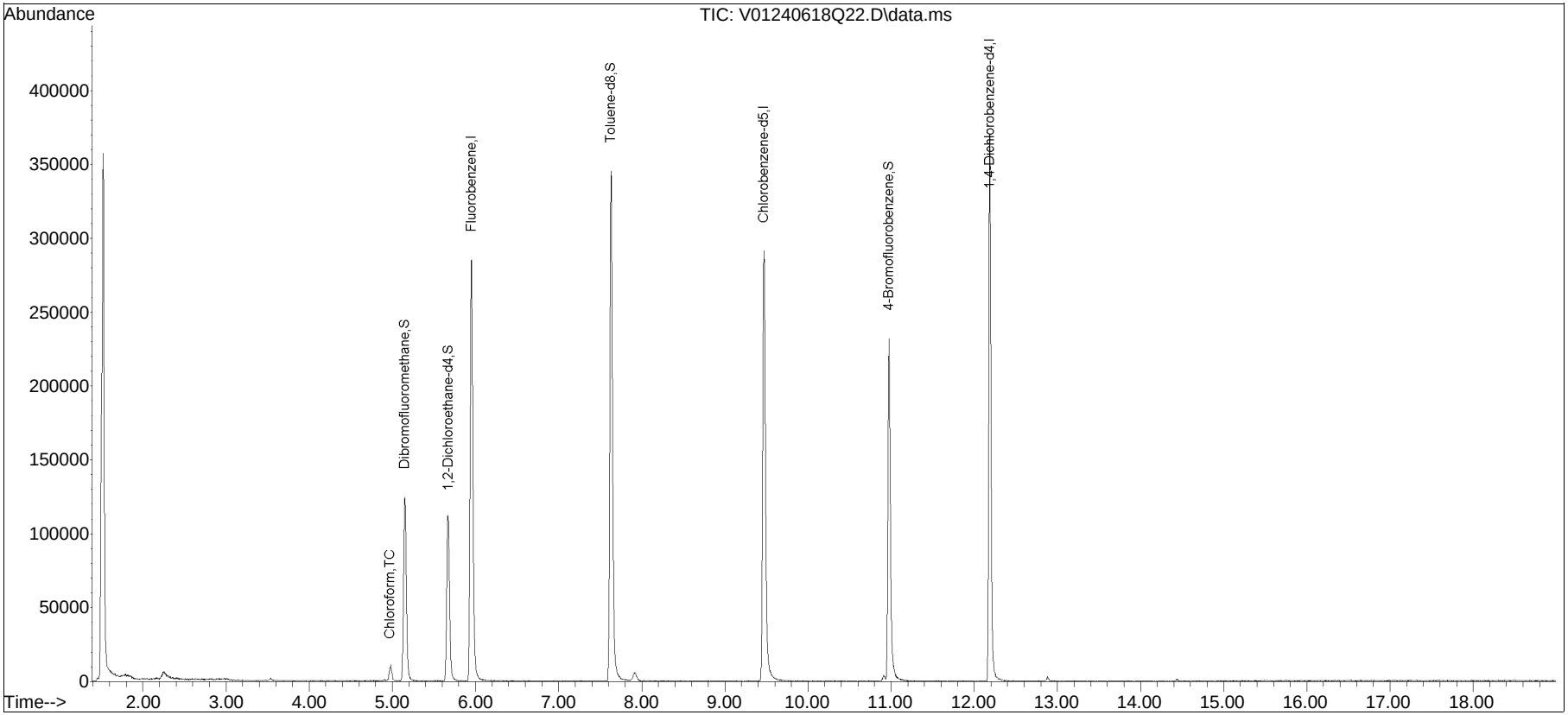
(#) = qualifier out of range (m) = manual integration (+) = signals summed

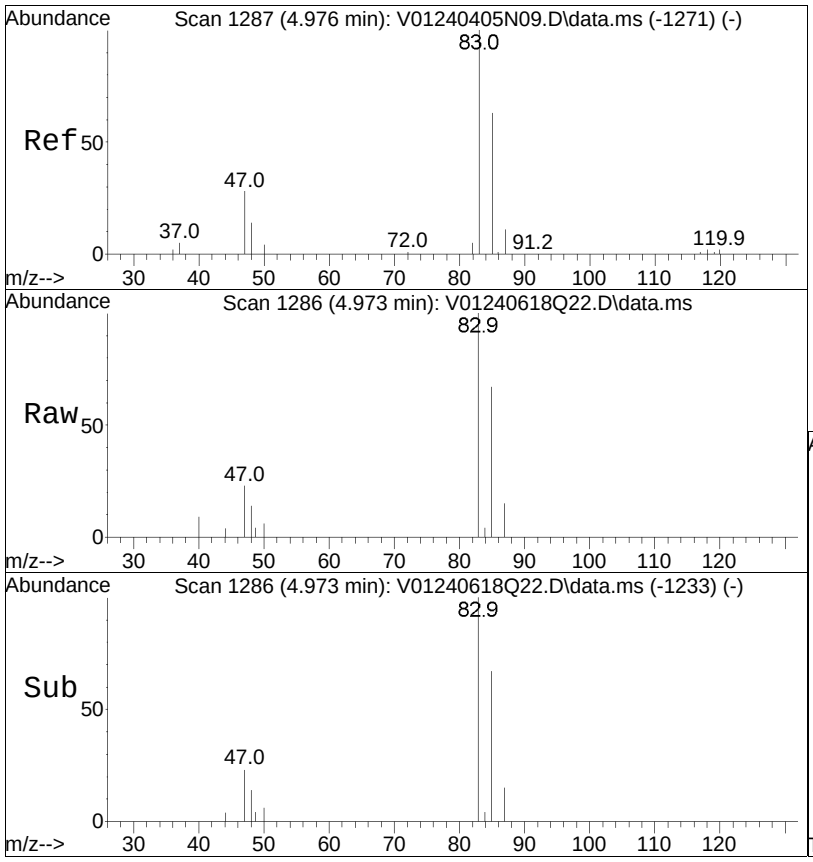
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q22.D
Acq On : 19 Jun 2024 4:11 am
Operator : VOA101:MJV
Sample : L2433375-07,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 19 06:52:29 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

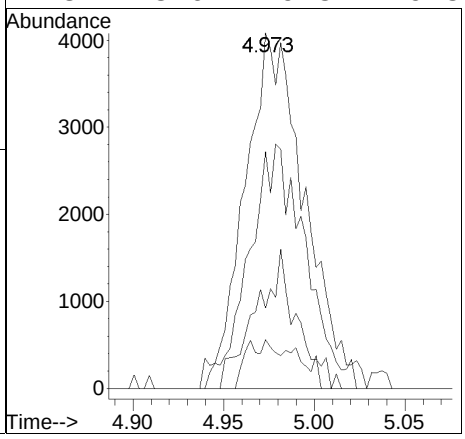




#32
Chloroform
Concen: 0.75 ug/L
RT: 4.973 min Scan# 1286
Delta R.T. -0.003 min
Lab File: V01240618Q22.D
Acq: 19 Jun 2024 4:11 am

Tgt Ion: 83 Resp: 9392

Ion	Ratio	Lower	Upper
83	100		
85	64.3	42.3	87.8
47	26.6	17.8	37.0
48	3.6	9.3	19.3#



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q22.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 4:11 am	Instrument	: VOA 101
Sample	: L2433375-07,31,10,10,,A	Quant Date	: 6/19/2024 5:53 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q23.D
Acq On : 19 Jun 2024 4:36 am
Operator : VOA101:MJV
Sample : L2433375-08,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 19 06:52:44 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	299331	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 93.16%			
59) Chlorobenzene-d5	9.471	117	215864	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 90.34%			
79) 1,4-Dichlorobenzene-d4	12.187	152	105556	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 77.32%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.154	113	85305	10.585	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.85%			
43) 1,2-Dichloroethane-d4	5.665	65	99444	10.764	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.64%			
60) Toluene-d8	7.631	98	280763	9.973	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.73%			
83) 4-Bromofluorobenzene	10.974	95	93358	10.209	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.09%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.841	50	53	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.243	64	84	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.960	76	441	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.484	84	303	N.D.		
17) Acetone	3.570	43	97	Below Cal		97
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.660	43	114	N.D.		
20) Methyl tert-butyl ether	3.732	73	89	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.981	83	4632M3	0.364	ug/L	
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q23.D
Acq On : 19 Jun 2024 4:36 am
Operator : VOA101:MJV
Sample : L2433375-08,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 19 06:52:44 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.	d	
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	8.141	166	167	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.485	91	89	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

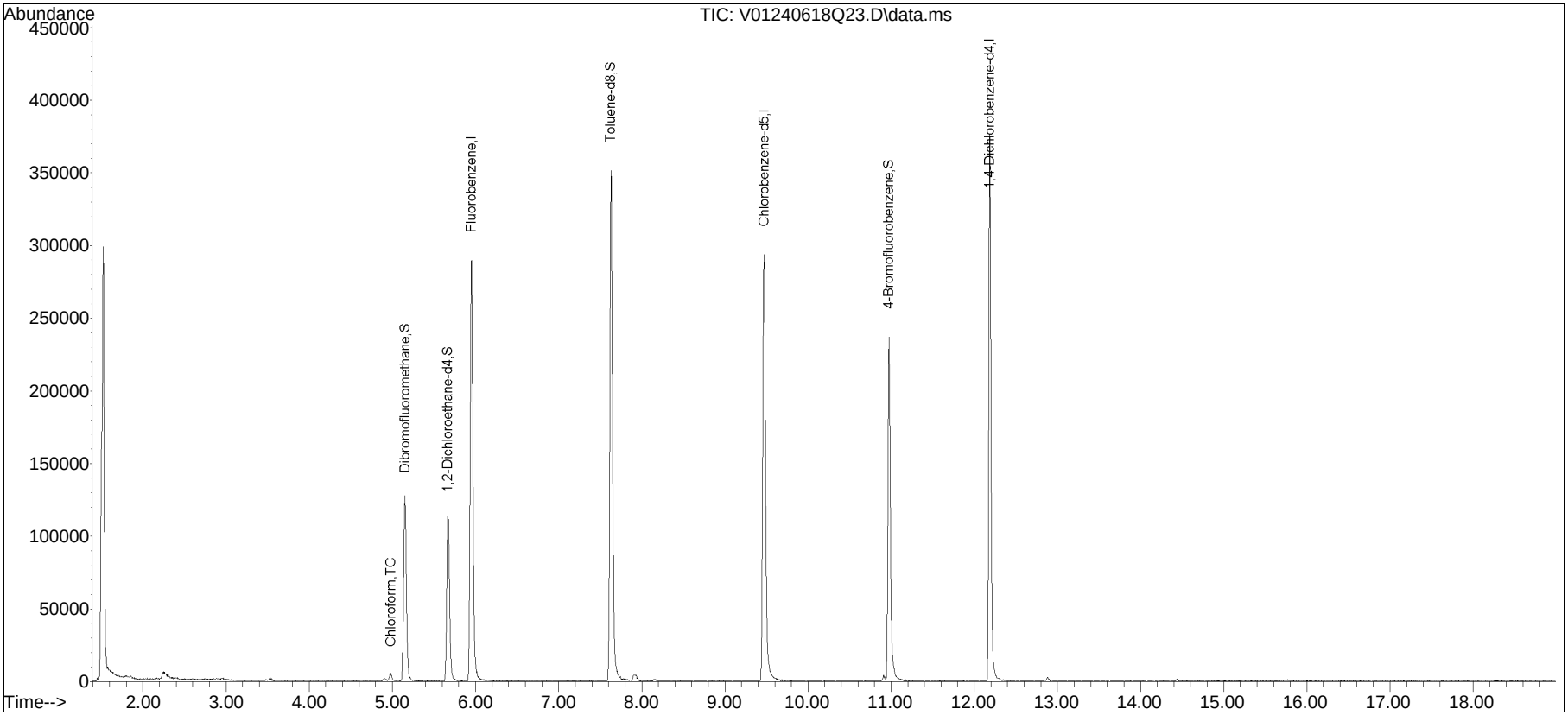
(#) = qualifier out of range (m) = manual integration (+) = signals summed

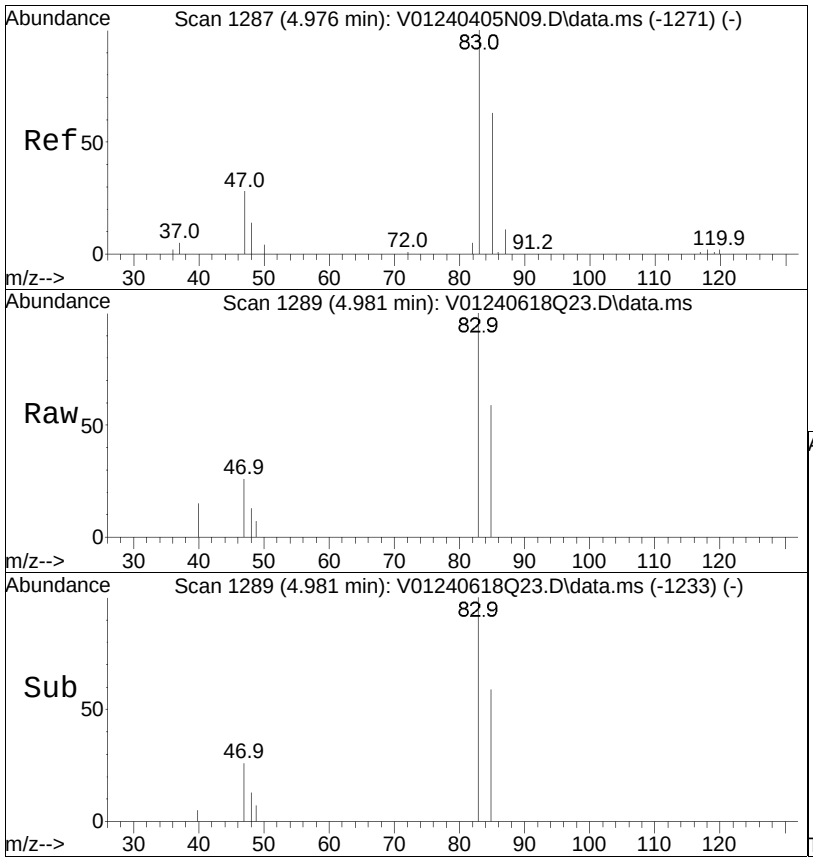
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q23.D
Acq On : 19 Jun 2024 4:36 am
Operator : VOA101:MJV
Sample : L2433375-08,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 19 06:52:44 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

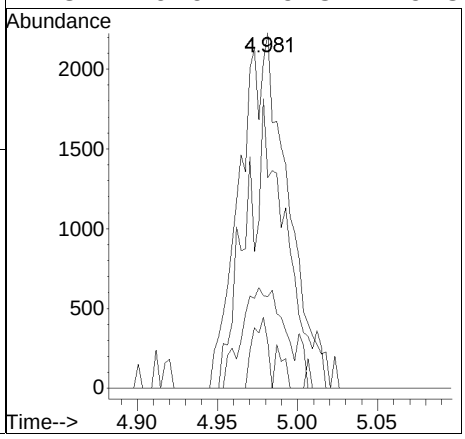




#32
Chloroform
Concen: 0.36 ug/L M3
RT: 4.981 min Scan# 1289
Delta R.T. 0.005 min
Lab File: V01240618Q23.D
Acq: 19 Jun 2024 4:36 am

Tgt Ion: 83 Resp: 4632

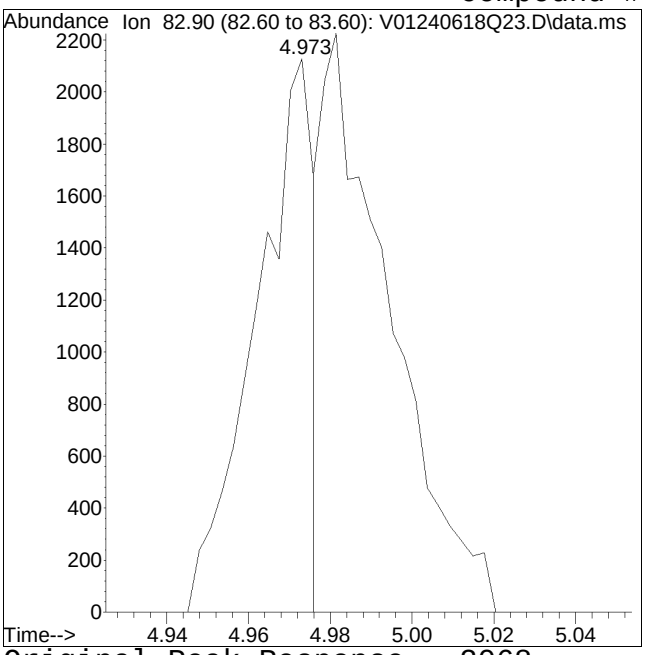
Ion	Ratio	Lower	Upper
83	100		
85	21.7	42.3	87.8#
47	24.2	17.8	37.0
48	0.0	9.3	19.3#

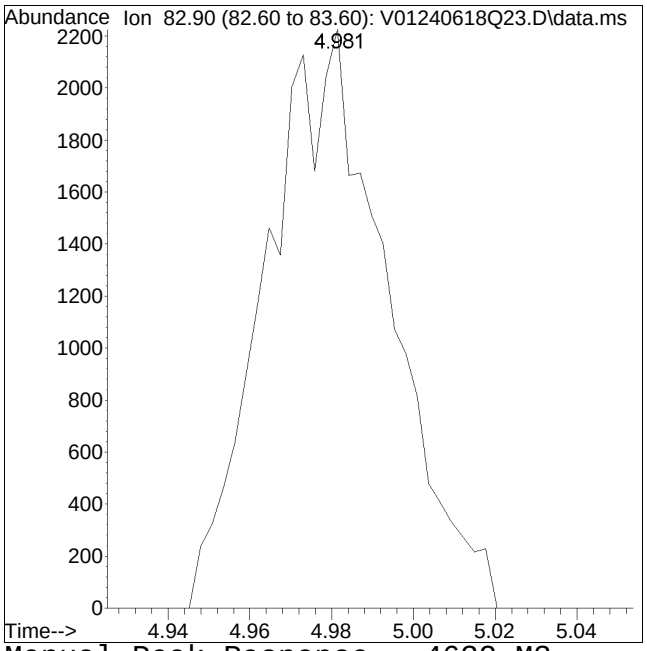


Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q23.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 4:36 am	Instrument	: VOA 101
Sample	: L2433375-08,31,10,10,,A	Quant Date	: 6/19/2024 5:53 am

Compound #32: Chloroform





Original Peak Response = 2068 Manual Peak Response = 4632 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q24.D
Acq On : 19 Jun 2024 5:02 am
Operator : VOA101:MJV
Sample : L2433375-09,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 06:52:52 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	293554	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 91.36%			
59) Chlorobenzene-d5	9.471	117	213769	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 89.47%			
79) 1,4-Dichlorobenzene-d4	12.184	152	103085	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 75.51%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.151	113	83669	10.586	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.86%			
43) 1,2-Dichloroethane-d4	5.670	65	97786	10.793	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.93%			
60) Toluene-d8	7.630	98	281755	10.106	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.06%			
83) 4-Bromofluorobenzene	10.974	95	92542	10.363	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.838	50	96	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.223	94	42	N.D.		
6) Chloroethane	2.234	64	57	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.957	76	324	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.481	84	284	N.D.		
17) Acetone	3.528	43	1678	Below Cal #		81
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q24.D
Acq On : 19 Jun 2024 5:02 am
Operator : VOA101:MJV
Sample : L2433375-09,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 06:52:52 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.547	78	130		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.030	95	57		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.689	92	168		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.493	91	59		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

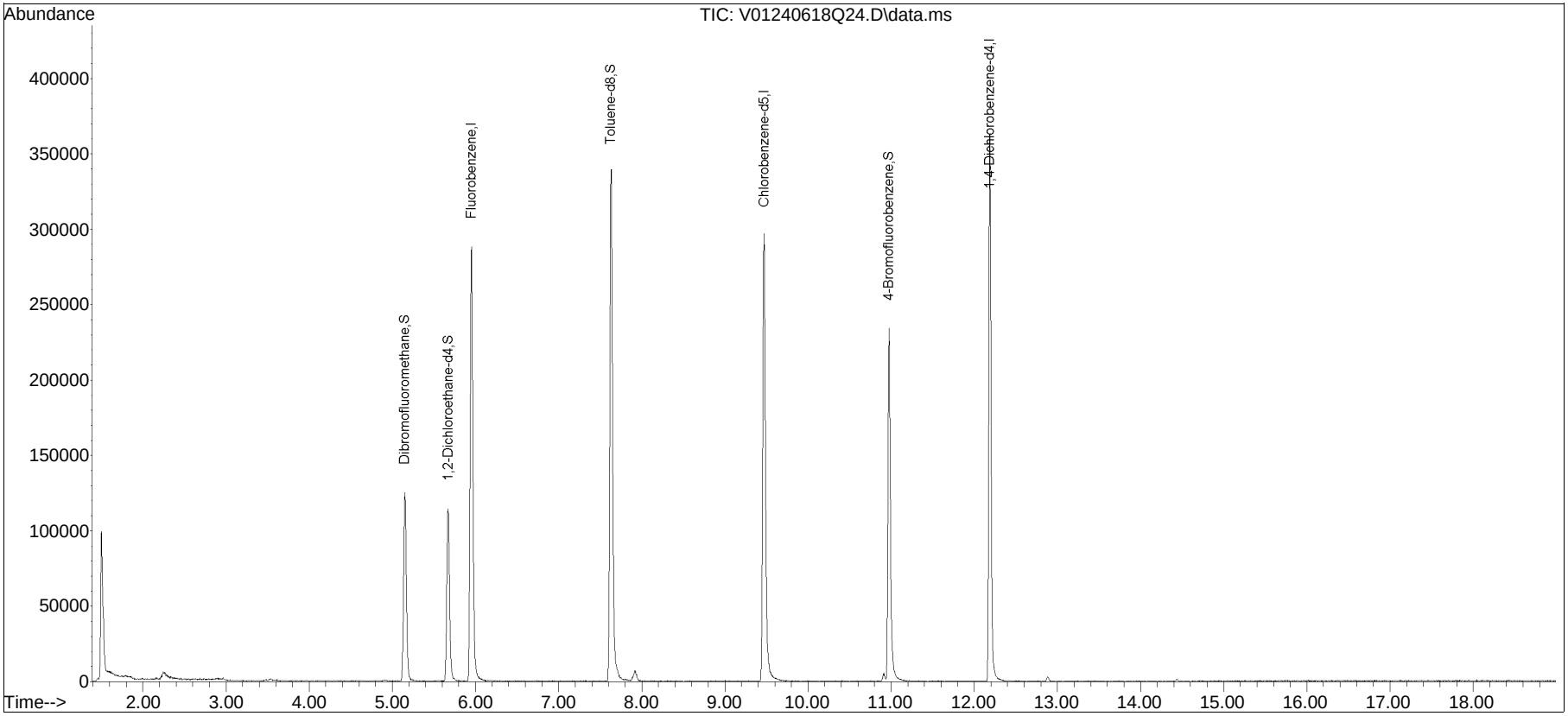
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q24.D
Acq On : 19 Jun 2024 5:02 am
Operator : VOA101:MJV
Sample : L2433375-09,31,10,10,,A
Misc : WG1936583,ICAL21103
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 06:52:52 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q24.D	Operator	: VOA101:MJV
Date Inj'd	: 6/19/2024 5:02 am	Instrument	: VOA 101
Sample	: L2433375-09,31,10,10,,A	Quant Date	: 6/19/2024 5:53 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21103**
Calibration dates	**: 05/07/24 18:55 05/07/24 22:50**		

Calibration Files
L11 =V01240507N03.D L1 =V01240507N05.D L2 =V01240507N07.D L3 =V01240507N08.D L4 =V01240507N09.D
L6 =V01240507N10.D L8 =V01240507N11.D L10 =V01240507N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.221	0.334	0.313	0.271	0.332	0.315	0.313	0.300	13.45
3)	TP	Chloromethane		0.297	0.326	0.298	0.295	0.290	0.273	0.278	0.294	5.89
4)	TC	Vinyl chloride	0.228	0.165	0.259	0.241	0.228	0.251	0.242	0.245	0.232	12.48
5)	TP	Bromomethane		0.151	0.167	0.135	0.141	0.153	0.155	0.169	0.153	8.06
6)	TP	Chloroethane		0.137	0.144	0.141	0.140	0.144	0.140	0.143	0.141	1.91
7)	TP	Trichlorofluor		0.265	0.411	0.379	0.334	0.410	0.392	0.398	0.370	14.39
8)	TP	Ethyl ether		0.084	0.091	0.088	0.091	0.090	0.088	0.091	0.089	2.83
10)	TC	1,1-Dichloroet		0.168	0.207	0.180	0.175	0.197	0.192	0.197	0.188	7.38
11)	TP	Carbon disulfide		0.468	0.596	0.544	0.545	0.599	0.594	0.618	0.566	9.12
12)	TP	Freon-113		0.139	0.221	0.202	0.175	0.225	0.215	0.216	0.199	15.69
13)	TP	Iodomethane			0.197	0.248	0.304	0.318	0.312	0.316	0.283	17.52
14)	TP	Acrolein			0.031	0.026	0.027	0.026	0.025	0.025	0.027	8.10
15)	TP	Methylene chlo		0.307	0.247	0.232	0.239	0.236	0.231	0.237	0.247	10.93
17)	TP	Acetone			0.109	0.052	0.045	0.042	0.040	0.039	*L	0.9996
18)	TP	trans-1,2-Dich		0.181	0.245	0.225	0.230	0.236	0.232	0.236	0.226	9.26
19)	TP	Methyl acetate		0.111	0.099	0.089	0.103	0.103	0.098	0.097	0.100	6.79
20)	TP	Methyl tert butyl ether		0.475	0.534	0.537	0.563	0.557	0.537	0.551	0.536	5.43
21)	TP	tert-Butyl alc		0.010	0.009	0.009	0.011	0.011	0.010	0.010	0.010#	8.83
22)	TP	Diisopropyl ether		0.647	0.772	0.764	0.791	0.780	0.755	0.773	0.754	6.48
23)	TP	1,1-Dichloroet		0.344	0.443	0.440	0.455	0.453	0.440	0.450	0.432	9.07
24)	TP	Halothane		0.119	0.178	0.169	0.167	0.183	0.177	0.182	0.168	13.43
25)	TP	Acrylonitrile		0.041	0.044	0.043	0.045	0.045	0.044	0.043	0.044	3.59
26)	TP	Ethyl tert-but		0.566	0.671	0.670	0.700	0.689	0.667	0.683	0.664	6.76
27)	TP	Vinyl acetate		0.286	0.283	0.275	0.302	0.300	0.249	0.251	0.278	7.68
28)	TP	cis-1,2-Dichlo		0.209	0.253	0.253	0.264	0.260	0.255	0.262	0.251	7.49
29)	TP	2,2-Dichloropr		0.276	0.386	0.354	0.350	0.368	0.351	0.354	0.349	9.90
30)	TP	Bromochloromet		0.092	0.119	0.113	0.119	0.114	0.109	0.111	0.111	8.25
31)	TP	Cyclohexane		0.299	0.409	0.387	0.338	0.418	0.390	0.383	0.375	11.17
32)	TC	Chloroform		0.345	0.429	0.416	0.452	0.449	0.436	0.448	0.425	8.82
33)	TP	Ethyl acetate		0.117	0.136	0.147	0.160	0.159	0.152	0.153	0.146	10.41
34)	TP	Carbon tetrachloride	0.324	0.239	0.356	0.347	0.334	0.380	0.366	0.373	0.340	13.24
35)	TP	Tetrahydrofuran			0.050	0.044	0.043	0.042	0.039	0.039	0.043	8.99
36)	S	Dibromofluoromethane	0.267	0.266	0.266	0.271	0.273	0.272	0.272	0.268	0.269	1.03
37)	TP	1,1,1-Trichlor		0.278	0.409	0.390	0.378	0.409	0.396	0.404	0.381	12.21
39)	TP	2-Butanone			0.042	0.054	0.063	0.064	0.062	0.061	0.058	14.82

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21103**
Calibration dates	**: 05/07/24 18:55 05/07/24 22:50**		

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L6 =V01240507N10.D L8 =V01240507N11.D L10 =V01240507N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.231	0.341	0.325	0.315	0.345	0.332	0.335	0.318	12.39
41) TP	Benzene	0.902	0.709	0.952	0.928	0.970	0.965	0.935	0.949	0.914	9.36
42) TP	Tertiary-Amyl Methyl Ether		0.493	0.574	0.586	0.612	0.599	0.580	0.595	0.577	6.79
43) S	1,2-Dichloroethane-d4	0.308	0.308	0.308	0.303	0.307	0.310	0.311	0.313	0.309	0.95
44) TP	1,2-Dichloroet		0.250	0.301	0.300	0.315	0.308	0.299	0.307	0.297	7.27
47) TP	Methyl cyclohe		0.280	0.395	0.381	0.340	0.423	0.399	0.400	0.374	12.97
48) TP	Trichloroethene	0.273	0.210	0.280	0.266	0.277	0.281	0.278	0.284	0.269	9.05
50) TP	Dibromomethane		0.112	0.131	0.131	0.139	0.136	0.133	0.137	0.131	6.82
51) TC	1,2-Dichloropr		0.198	0.235	0.237	0.249	0.243	0.238	0.242	0.235	7.20
53) TP	2-Chloroethyl		0.068	0.088	0.101	0.107	0.108	0.103	0.104	0.097	14.64
54) TP	Bromodichlorom		0.269	0.330	0.331	0.351	0.351	0.344	0.356	0.333	8.99
57) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	19.49
58) TP	cis-1,3-Dichlo		0.266	0.356	0.369	0.393	0.393	0.379	0.391	0.364	12.48
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.301	1.317	1.319	1.308	1.312	1.288	1.292	1.297	1.304	0.87
61) TC	Toluene		0.588	0.804	0.765	0.799	0.798	0.781	0.807	0.763	10.29
62) TP	4-Methyl-2-pen			0.065	0.067	0.073	0.073	0.070	0.070	0.070	4.33
63) TP	Tetrachloroethene		0.247	0.362	0.352	0.350	0.386	0.377	0.390	0.352	13.92
65) TP	trans-1,3-Dich		0.320	0.398	0.419	0.454	0.447	0.439	0.449	0.418	11.37
67) TP	Ethyl methacry		0.198	0.248	0.274	0.305	0.300	0.289	0.297	0.273	14.16
68) TP	1,1,2-Trichlor		0.166	0.198	0.194	0.207	0.200	0.195	0.198	0.194#	6.77
69) TP	Chlorodibromom		0.236	0.287	0.293	0.321	0.322	0.319	0.336	0.302	11.23
70) TP	1,3-Dichloropr		0.312	0.403	0.395	0.426	0.415	0.403	0.410	0.395	9.56
71) TP	1,2-Dibromoethane		0.171	0.218	0.218	0.237	0.234	0.229	0.236	0.220	10.46
72) TP	2-Hexanone			0.121	0.117	0.139	0.138	0.133	0.138	0.131	7.27
73) TP	Chlorobenzene		0.658	0.861	0.848	0.883	0.879	0.860	0.892	0.840	9.72
74) TC	Ethylbenzene		1.038	1.547	1.513	1.575	1.592	1.555	1.602	1.489	13.50
75) TP	1,1,1,2-Tetrac		0.233	0.308	0.313	0.335	0.335	0.333	0.349	0.315	12.33
76) TP	p/m Xylene		0.423	0.579	0.573	0.603	0.611	0.594	0.629	0.573	12.00
77) TP	o Xylene		0.393	0.552	0.554	0.582	0.586	0.571	0.600	0.548	12.87
78) TP	Styrene		0.651	0.853	0.893	0.954	0.965	0.943	0.998	0.894	13.13
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.256	0.293	0.305	0.336	0.339	0.346	0.357	0.319	11.25
82) TP	Isopropylbenzene		1.927	2.590	2.581	2.609	2.690	2.668	2.678	2.535	10.71
83) S	4-Bromofluorobenzene	0.901	0.894	0.885	0.873	0.866	0.834	0.850	0.827	0.866	3.15
84) TP	Bromobenzene		0.513	0.614	0.639	0.659	0.645	0.648	0.664	0.626	8.40

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21103**
Calibration dates	**: 05/07/24 18:55 05/07/24 22:50**		

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	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		2.273	2.995	3.018	3.053	3.143	3.088	3.093	2.952	10.28
86) TP	1,4-Dichlorobu		0.628	0.629	0.605	0.622	0.588	0.580	0.572	0.603	3.96
87) TP	1,1,2,2-Tetrac		0.405	0.414	0.403	0.420	0.411	0.390	0.388	0.405	2.96
88) TP	4-Ethyltoluene		1.825	2.430	2.447	2.538	2.583	2.558	2.582	2.423	11.18
89) TP	2-Chlorotoluene		1.405	1.741	1.769	1.831	1.796	1.812	1.830	1.741	8.71
90) TP	1,3,5-Trimethy		1.684	2.058	2.093	2.179	2.226	2.193	2.242	2.097	9.26
91) TP	1,2,3-Trichlor		0.333	0.368	0.356	0.375	0.362	0.355	0.358	0.358	3.67
92) TP	trans-1,4-Dich		0.099	0.117	0.122	0.132	0.126	0.123	0.122	0.120	8.73
93) TP	4-Chlorotoluene		1.439	1.776	1.807	1.887	1.861	1.848	1.882	1.786	8.84
94) TP	tert-Butylbenzene		1.391	1.769	1.754	1.782	1.876	1.844	1.870	1.755	9.57
97) TP	1,2,4-Trimethy		1.578	2.034	2.070	2.165	2.166	2.143	2.199	2.051	10.55
98) TP	sec-Butylbenzene		2.010	2.437	2.513	2.523	2.732	2.682	2.702	2.514	9.90
99) TP	p-Isopropyltol		1.615	2.105	2.148	2.201	2.346	2.309	2.350	2.153	11.91
100) TP	1,3-Dichlorobe		0.893	1.109	1.138	1.210	1.212	1.208	1.257	1.147	10.67
101) TP	1,4-Dichlorobe		0.995	1.140	1.149	1.213	1.216	1.210	1.256	1.168	7.41
102) TP	p-Diethylbenzene		0.892	1.142	1.210	1.258	1.327	1.309	1.341	1.211	13.00
103) TP	n-Butylbenzene		1.372	1.731	1.766	1.807	1.939	1.895	1.924	1.776	11.00
104) TP	1,2-Dichlorobe		0.826	1.001	1.038	1.092	1.082	1.071	1.112	1.032	9.47
105) TP	1,2,4,5-Tetram		1.406	1.650	1.738	1.873	1.899	1.883	1.941	1.770	10.75
106) TP	1,2-Dibromo-3-		0.044	0.055	0.060	0.067	0.068	0.066	0.067	0.061	14.34
107) TP	1,3,5-Trichlor		0.554	0.693	0.716	0.776	0.780	0.778	0.817	0.731	12.12
108) TP	Hexachlorobuta		0.217	0.264	0.275	0.281	0.309	0.317	0.328	0.284	13.37
109) TP	1,2,4-Trichlor		0.486	0.554	0.591	0.655	0.645	0.654	0.684	0.610	11.51
110) TP	Naphthalene		0.900	0.972	1.069	1.170	1.130	1.120	1.134	1.071	9.25
111) TP	1,2,3-Trichlor		0.404	0.433	0.464	0.506	0.493	0.502	0.521	0.475	9.03

Response Factor Report VOA 101

Method Path : K:\VOA101\2024\240507ICAL\
Method File : V101_240507N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 08 10:48:58 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01240507N03.D L1 =V01240507N05.D L2 =V01240507N07.D L3 =V01240507N08.D L4 =V01240507N09.D
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		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo...		0.221	0.334	0.313	0.271	0.332	0.315	0.313	0.300	13.45
3)	TP	Chloromethane		0.297	0.326	0.298	0.295	0.290	0.273	0.278	0.294	5.89
4)	TC	Vinyl chloride	0.228	0.165	0.259	0.241	0.228	0.251	0.242	0.245	0.232	12.48
5)	TP	Bromomethane		0.151	0.167	0.135	0.141	0.153	0.155	0.169	0.153	8.06
6)	TP	Chloroethane		0.137	0.144	0.141	0.140	0.144	0.140	0.143	0.141	1.91
7)	TP	Trichlorofluor...		0.265	0.411	0.379	0.334	0.410	0.392	0.398	0.370	14.39
8)	TP	Ethyl ether		0.084	0.091	0.088	0.091	0.090	0.088	0.091	0.089	2.83
10)	TC	1,1-Dichloroet...		0.168	0.207	0.180	0.175	0.197	0.192	0.197	0.188	7.38
11)	TP	Carbon disulfide		0.468	0.596	0.544	0.545	0.599	0.594	0.618	0.566	9.12
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13)	TP	Iodomethane			0.197	0.248	0.304	0.318	0.312	0.316	0.283	17.52
14)	TP	Acrolein			0.031	0.026	0.027	0.026	0.025	0.025	0.027	8.10
15)	TP	Methylene chlo...		0.307	0.247	0.232	0.239	0.236	0.231	0.237	0.247	10.93
17)	TP	Acetone			0.109	0.052	0.045	0.042	0.040	0.039	*L	0.9996
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20)	TP	Methyl tert-bu...		0.475	0.534	0.537	0.563	0.557	0.537	0.551	0.536	5.43
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25)	TP	Acrylonitrile		0.041	0.044	0.043	0.045	0.045	0.044	0.043	0.044	3.59
26)	TP	Ethyl tert-but...		0.566	0.671	0.670	0.700	0.689	0.667	0.683	0.664	6.76
27)	TP	Vinyl acetate		0.286	0.283	0.275	0.302	0.300	0.249	0.251	0.278	7.68
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30)	TP	Bromochloromet...		0.092	0.119	0.113	0.119	0.114	0.109	0.111	0.111	8.25
31)	TP	Cyclohexane		0.299	0.409	0.387	0.338	0.418	0.390	0.383	0.375	11.17
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Response Factor Report VOA 101

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		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
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39)	TP	2-Butanone			0.042	0.054	0.063	0.064	0.062	0.061	0.058	14.82
40)	TP	1,1-Dichloropr...		0.231	0.341	0.325	0.315	0.345	0.332	0.335	0.318	12.39
41)	TP	Benzene	0.902	0.709	0.952	0.928	0.970	0.965	0.935	0.949	0.914	9.36
42)	TP	tert-Amyl meth...		0.493	0.574	0.586	0.612	0.599	0.580	0.595	0.577	6.79
43)	S	1,2-Dichloroet...	0.308	0.308	0.308	0.303	0.307	0.310	0.311	0.313	0.309	0.95
44)	TP	1,2-Dichloroet...		0.250	0.301	0.300	0.315	0.308	0.299	0.307	0.297	7.27
47)	TP	Methyl cyclohe...		0.280	0.395	0.381	0.340	0.423	0.399	0.400	0.374	12.97
48)	TP	Trichloroethene	0.273	0.210	0.280	0.266	0.277	0.281	0.278	0.284	0.269	9.05
50)	TP	Dibromomethane		0.112	0.131	0.131	0.139	0.136	0.133	0.137	0.131	6.82
51)	TC	1,2-Dichloropr...		0.198	0.235	0.237	0.249	0.243	0.238	0.242	0.235	7.20
53)	TP	2-Chloroethyl ...		0.068	0.088	0.101	0.107	0.108	0.103	0.104	0.097	14.64
54)	TP	Bromodichlorom...		0.269	0.330	0.331	0.351	0.351	0.344	0.356	0.333	8.99
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	19.49
58)	TP	cis-1,3-Dichlo...		0.266	0.356	0.369	0.393	0.393	0.379	0.391	0.364	12.48
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.301	1.317	1.319	1.308	1.312	1.288	1.292	1.297	1.304	0.87
61)	TC	Toluene		0.588	0.804	0.765	0.799	0.798	0.781	0.807	0.763	10.29
62)	TP	4-Methyl-2-pen...			0.065	0.067	0.073	0.073	0.070	0.070	0.070	4.33
63)	TP	Tetrachloroethene		0.247	0.362	0.352	0.350	0.386	0.377	0.390	0.352	13.92
65)	TP	trans-1,3-Dich...		0.320	0.398	0.419	0.454	0.447	0.439	0.449	0.418	11.37
67)	TP	Ethyl methacry...		0.198	0.248	0.274	0.305	0.300	0.289	0.297	0.273	14.16
68)	TP	1,1,2-Trichlor...		0.166	0.198	0.194	0.207	0.200	0.195	0.198	0.194#	6.77
69)	TP	Chlorodibromom...		0.236	0.287	0.293	0.321	0.322	0.319	0.336	0.302	11.23
70)	TP	1,3-Dichloropr...		0.312	0.403	0.395	0.426	0.415	0.403	0.410	0.395	9.56
71)	TP	1,2-Dibromoethane		0.171	0.218	0.218	0.237	0.234	0.229	0.236	0.220	10.46
72)	TP	2-Hexanone			0.121	0.117	0.139	0.138	0.133	0.138	0.131	7.27
73)	TP	Chlorobenzene		0.658	0.861	0.848	0.883	0.879	0.860	0.892	0.840	9.72

Method Path : K:\VOA101\2024\240507ICAL\
Method File : V101_240507N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 08 10:48:58 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01240507N03.D L1 =V01240507N05.D L2 =V01240507N07.D L3 =V01240507N08.D L4 =V01240507N09.D
L6 =V01240507N10.D L8 =V01240507N11.D L10 =V01240507N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TC	Ethylbenzene		1.038	1.547	1.513	1.575	1.592	1.555	1.602	1.489	13.50
75)	TP	1,1,1,2-Tetrac...		0.233	0.308	0.313	0.335	0.335	0.333	0.349	0.315	12.33
76)	TP	p/m Xylene		0.423	0.579	0.573	0.603	0.611	0.594	0.629	0.573	12.00
77)	TP	o Xylene		0.393	0.552	0.554	0.582	0.586	0.571	0.600	0.548	12.87
78)	TP	Styrene		0.651	0.853	0.893	0.954	0.965	0.943	0.998	0.894	13.13
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.256	0.293	0.305	0.336	0.339	0.346	0.357	0.319	11.25
82)	TP	Isopropylbenzene		1.927	2.590	2.581	2.609	2.690	2.668	2.678	2.535	10.71
83)	S	4-Bromofluorob...	0.901	0.894	0.885	0.873	0.866	0.834	0.850	0.827	0.866	3.15
84)	TP	Bromobenzene		0.513	0.614	0.639	0.659	0.645	0.648	0.664	0.626	8.40
85)	TP	n-Propylbenzene		2.273	2.995	3.018	3.053	3.143	3.088	3.093	2.952	10.28
86)	TP	1,4-Dichlorobu...		0.628	0.629	0.605	0.622	0.588	0.580	0.572	0.603	3.96
87)	TP	1,1,2,2-Tetrac...		0.405	0.414	0.403	0.420	0.411	0.390	0.388	0.405	2.96
88)	TP	4-Ethyltoluene		1.825	2.430	2.447	2.538	2.583	2.558	2.582	2.423	11.18
89)	TP	2-Chlorotoluene		1.405	1.741	1.769	1.831	1.796	1.812	1.830	1.741	8.71
90)	TP	1,3,5-Trimethy...		1.684	2.058	2.093	2.179	2.226	2.193	2.242	2.097	9.26
91)	TP	1,2,3-Trichlor...		0.333	0.368	0.356	0.375	0.362	0.355	0.358	0.358	3.67
92)	TP	trans-1,4-Dich...		0.099	0.117	0.122	0.132	0.126	0.123	0.122	0.120	8.73
93)	TP	4-Chlorotoluene		1.439	1.776	1.807	1.887	1.861	1.848	1.882	1.786	8.84
94)	TP	tert-Butylbenzene		1.391	1.769	1.754	1.782	1.876	1.844	1.870	1.755	9.57
97)	TP	1,2,4-Trimethy...		1.578	2.034	2.070	2.165	2.166	2.143	2.199	2.051	10.55
98)	TP	sec-Butylbenzene		2.010	2.437	2.513	2.523	2.732	2.682	2.702	2.514	9.90
99)	TP	p-Isopropyltol...		1.615	2.105	2.148	2.201	2.346	2.309	2.350	2.153	11.91
100)	TP	1,3-Dichlorobe...		0.893	1.109	1.138	1.210	1.212	1.208	1.257	1.147	10.67
101)	TP	1,4-Dichlorobe...		0.995	1.140	1.149	1.213	1.216	1.210	1.256	1.168	7.41
102)	TP	p-Diethylbenzene		0.892	1.142	1.210	1.258	1.327	1.309	1.341	1.211	13.00
103)	TP	n-Butylbenzene		1.372	1.731	1.766	1.807	1.939	1.895	1.924	1.776	11.00
104)	TP	1,2-Dichlorobe...		0.826	1.001	1.038	1.092	1.082	1.071	1.112	1.032	9.47
105)	TP	1,2,4,5-Tetram...		1.406	1.650	1.738	1.873	1.899	1.883	1.941	1.770	10.75
106)	TP	1,2-Dibromo-3-...		0.044	0.055	0.060	0.067	0.068	0.066	0.067	0.061	14.34
107)	TP	1,3,5-Trichlor...		0.554	0.693	0.716	0.776	0.780	0.778	0.817	0.731	12.12

Method Path : K:\VOA101\2024\240507ICAL\
Method File : V101_240507N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 08 10:48:58 2024
Response Via : Initial Calibration

Calibration Files
L11 =V01240507N03.D L1 =V01240507N05.D L2 =V01240507N07.D L3 =V01240507N08.D L4 =V01240507N09.D
L6 =V01240507N10.D L8 =V01240507N11.D L10 =V01240507N12.D

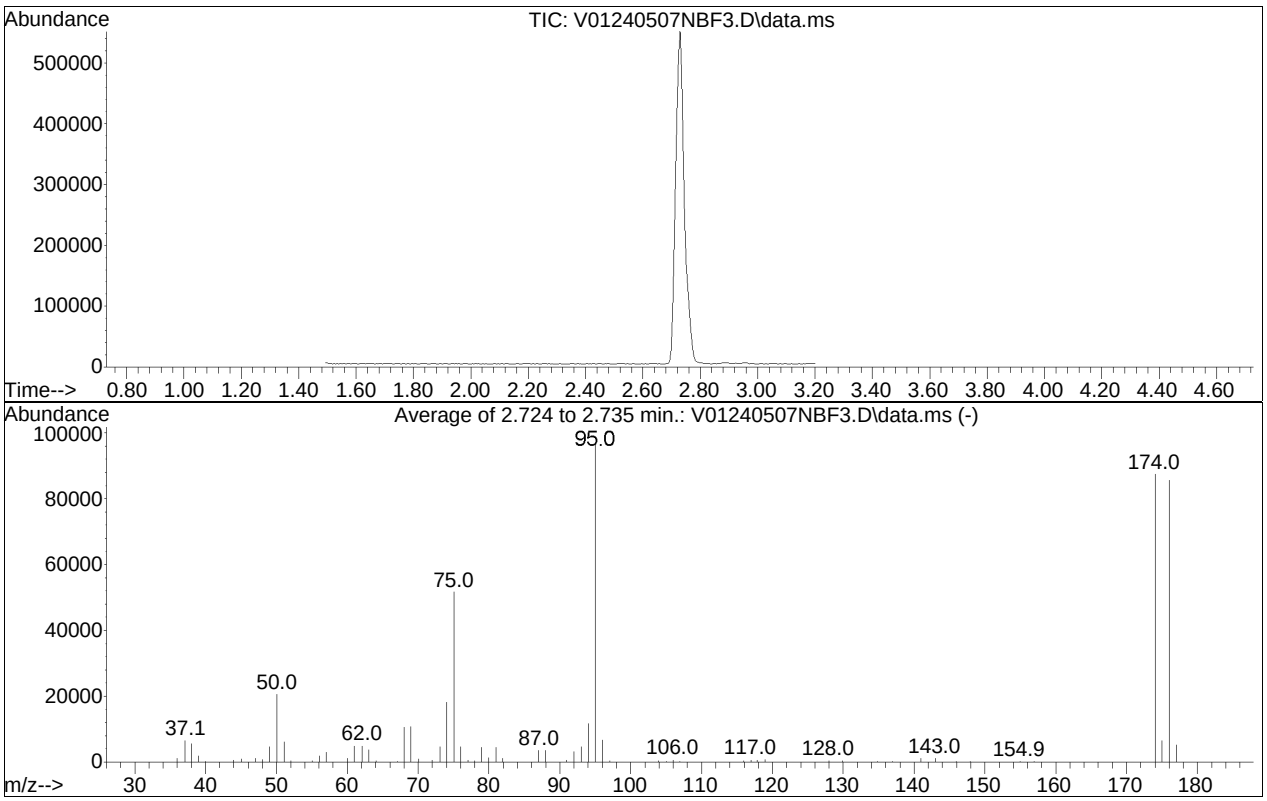
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.217	0.264	0.275	0.281	0.309	0.317	0.328	0.284	13.37	
109)	TP 1,2,4-Trichlor...	0.486	0.554	0.591	0.655	0.645	0.654	0.684	0.610	11.51	
110)	TP Naphthalene	0.900	0.972	1.069	1.170	1.130	1.120	1.134	1.071	9.25	
111)	TP 1,2,3-Trichlor...	0.404	0.433	0.464	0.506	0.493	0.502	0.521	0.475	9.03	

(#) = Out of Range

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507NBF3.D
Acq On : 7 May 2024 5:42 pm
Operator : VOA101:MAG
Sample : WG1918530-1
Misc : WG1918530
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 08 10:48:58 2024



AutoFind: Scans 236, 237, 238; Background Corrected with Scan 227

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	20581	PASS
75	95	30	60	53.4	51800	PASS
95	95	100	100	100.0	97056	PASS
96	95	5	9	6.9	6714	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.2	87581	PASS
175	174	5	9	7.6	6630	PASS
176	174	95	101	97.7	85541	PASS
177	176	5	9	6.1	5205	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N03.D
Acq On : 7 May 2024 6:55 pm
Operator : VOA101:PID
Sample : I8260STD0.19PPB
Misc : WG1918530,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:44:33 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.955	96	414552	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 104.99%			
59) Chlorobenzene-d5	9.471	117	310527	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 104.66%			
79) 1,4-Dichlorobenzene-d4	12.187	152	168967	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 100.95%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.154	113	110670	9.915	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.15%			
43) 1,2-Dichloroethane-d4	5.670	65	127790	9.988	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.88%			
60) Toluene-d8	7.631	98	403979	9.975	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.75%			
83) 4-Bromofluorobenzene	10.971	95	152290	10.404	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.04%			
Target Compounds						Qvalue
4) Vinyl chloride	1.905	62	1797	0.187	ug/L #	44
34) Carbon tetrachloride	5.107	117	2554	0.181	ug/L #	86
41) Benzene	5.539	78	7107M1	0.188	ug/L	
48) Trichloroethene	6.133	95	2154M1	0.193	ug/L	

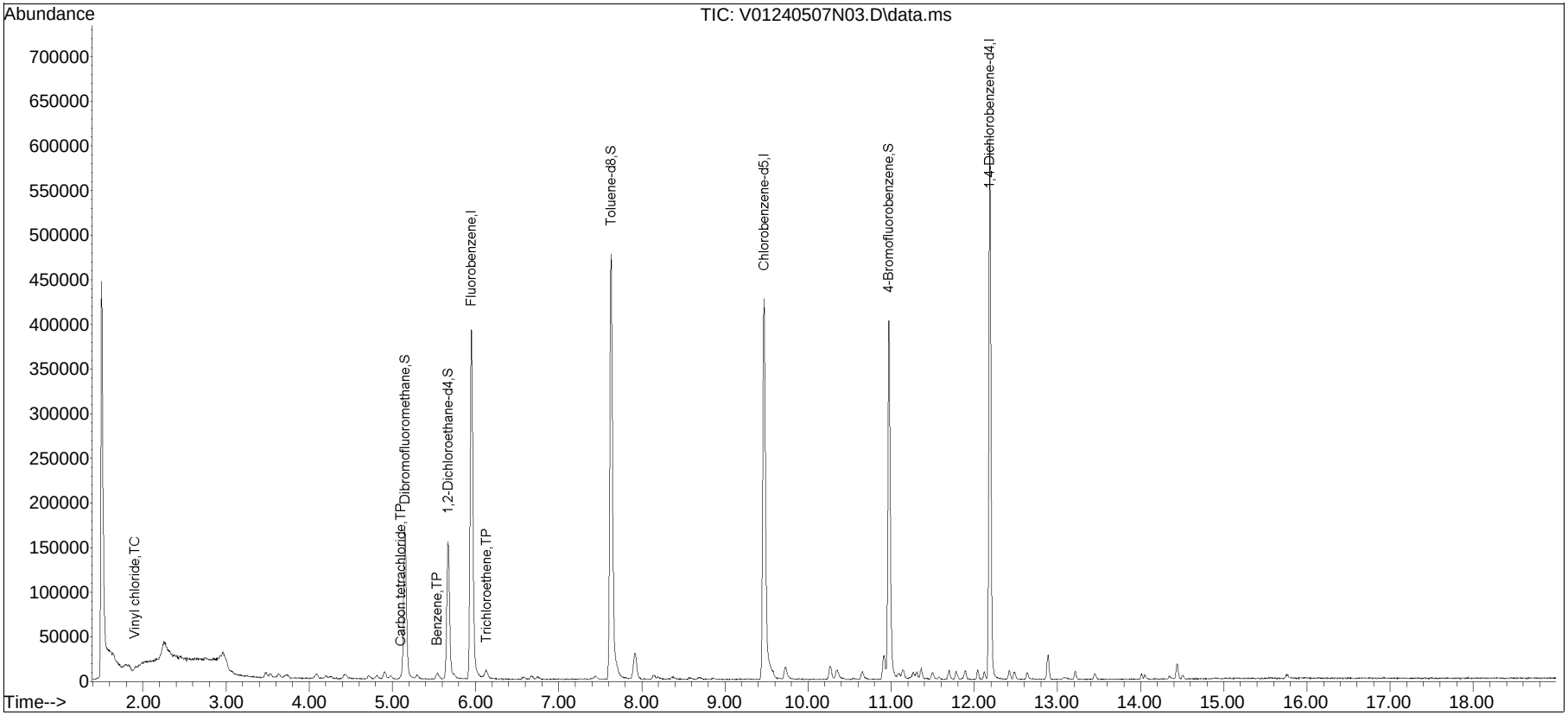
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N03.D
Acq On : 7 May 2024 6:55 pm
Operator : VOA101:PID
Sample : I8260STD0.19PPB
Misc : WG1918530,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 08 10:44:33 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

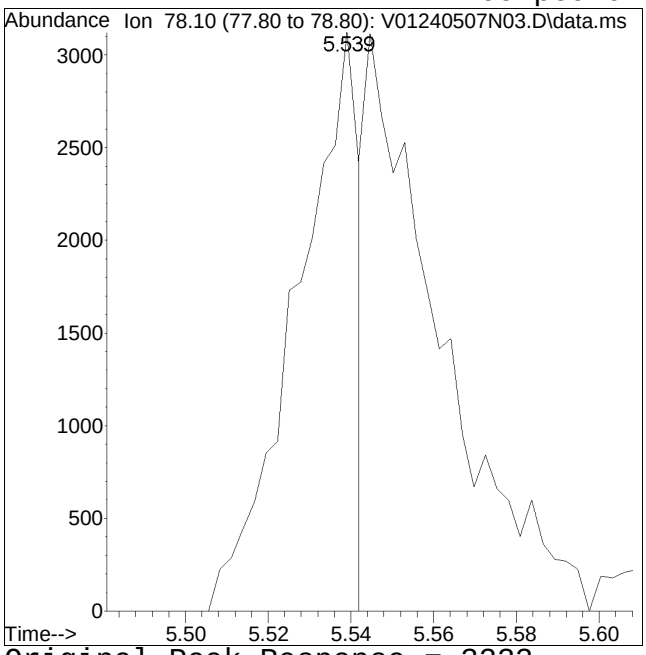
Sub List : 8260-L11 - Level 11 for 8260-LRR product08.D•

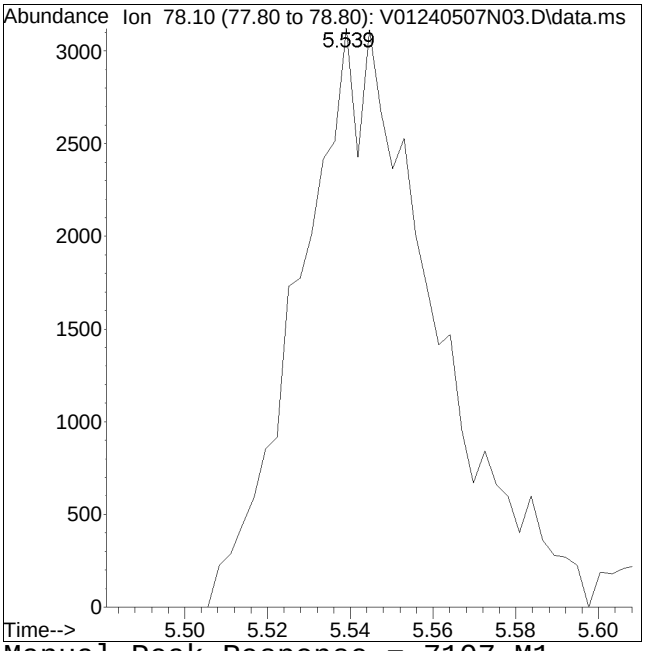


Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N03.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 6:55 pm Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 5/8/2024 10:44 am

Compound #41: Benzene



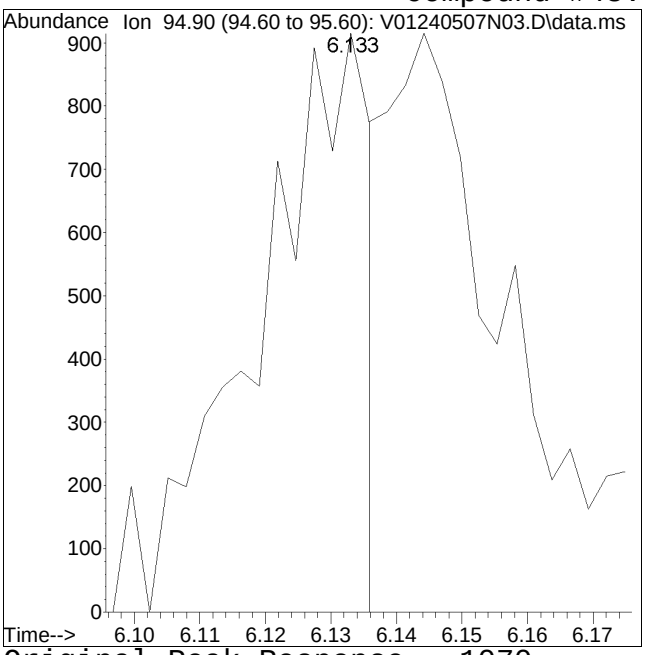


Original Peak Response = 3233 Manual Peak Response = 7107 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

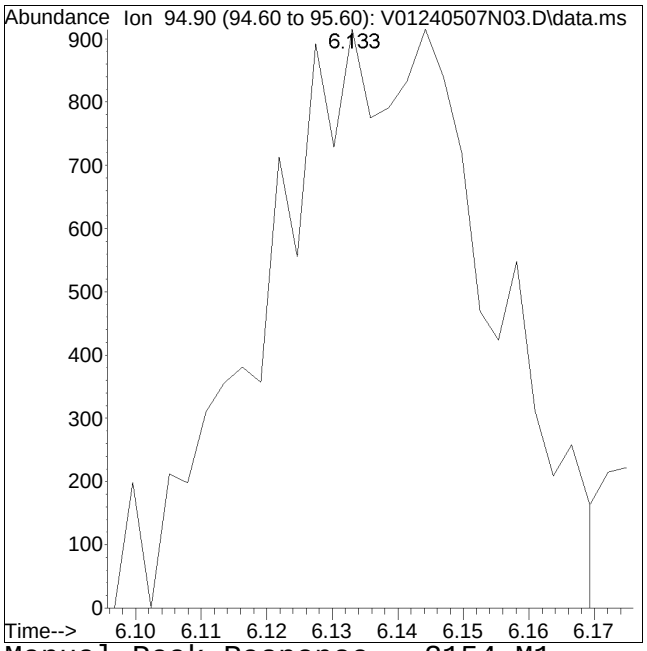
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N03.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 6:55 pm Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 5/8/2024 10:44 am

Compound #48: Trichloroethene



Original Peak Response = 1070



Manual Peak Response = 2154 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N05.D
Acq On : 7 May 2024 7:47 pm
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1918530,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 08 10:44:43 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.952	96	405285	10.000 ug/L	0.00
Standard Area 1 = 394857			Recovery = 102.64%		
59) Chlorobenzene-d5	9.471	117	301117	10.000 ug/L	0.00
Standard Area 1 = 296713			Recovery = 101.48%		
79) 1,4-Dichlorobenzene-d4	12.187	152	166435	10.000 ug/L	0.00
Standard Area 1 = 167376			Recovery = 99.44%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.152	113	107934	9.891 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.91%		
43) 1,2-Dichloroethane-d4	5.667	65	124872	9.983 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.83%		
60) Toluene-d8	7.631	98	396494	10.096 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.96%		
83) 4-Bromofluorobenzene	10.977	95	148713	10.314 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.14%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.641	85	4487	0.369 ug/L	97
3) Chloromethane	1.841	50	6025	0.506 ug/L	93
4) Vinyl chloride	1.900	62	3353	0.356 ug/L	72
5) Bromomethane	2.201	94	3063	0.494 ug/L	90
6) Chloroethane	2.310	64	2777M1	0.485 ug/L	
7) Trichlorofluoromethane	2.452	101	5369	0.358 ug/L	90
8) Ethyl ether	2.751	74	1706	0.473 ug/L	96
10) 1,1-Dichloroethene	2.929	96	3409M1	0.447 ug/L	
11) Carbon disulfide	2.960	76	9480	0.413 ug/L	92
12) Freon-113	2.965	101	2825M1	0.350 ug/L	
13) Iodomethane	3.071	142	2716M3	0.256 ug/L	
14) Acrolein	0.000		0	N.D. d	
15) Methylene chloride	3.481	84	6223	0.621 ug/L	100
17) Acetone	3.534	43	7665	1.876 ug/L #	70
18) trans-1,2-Dichloroethene	3.632	96	3669	0.400 ug/L #	65
19) Methyl acetate	3.648	43	2259M3	0.557 ug/L	
20) Methyl tert-butyl ether	3.724	73	9630	0.443 ug/L #	79
21) tert-Butyl alcohol	3.833	59	991M1	2.461 ug/L	
22) Diisopropyl ether	4.083	45	13101	0.428 ug/L #	86
23) 1,1-Dichloroethane	4.201	63	6976	0.398 ug/L	76
24) Halothane	4.251	117	2404	0.354 ug/L	80

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N05.D
Acq On : 7 May 2024 7:47 pm
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1918530,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 08 10:44:43 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
25) Acrylonitrile	4.262	53	827M1	0.467 ug/L		
26) Ethyl tert-butyl ether	4.429	59	11462	0.426 ug/L	#	49
27) Vinyl acetate	4.443	43	5790M1	0.514 ug/L		
28) cis-1,2-Dichloroethene	4.719	96	4242	0.417 ug/L		96
29) 2,2-Dichloropropane	4.809	77	5593	0.396 ug/L	#	41
30) Bromochloromethane	4.906	128	1865	0.414 ug/L	#	78
31) Cyclohexane	4.912	56	6066	0.399 ug/L		97
32) Chloroform	4.976	83	6994	0.406 ug/L		95
33) Ethyl acetate	5.099	43	2374M1	0.400 ug/L		
34) Carbon tetrachloride	5.112	117	4839	0.351 ug/L	#	94
35) Tetrahydrofuran	0.000		0	N.D. d		
37) 1,1,1-Trichloroethane	5.168	97	5639M1	0.366 ug/L		
39) 2-Butanone	0.000		0	N.D. d		
40) 1,1-Dichloropropene	5.305	75	4691M3	0.364 ug/L		
41) Benzene	5.536	78	14368	0.388 ug/L	#	60
42) tert-Amyl methyl ether	5.651	73	9989	0.427 ug/L	#	78
44) 1,2-Dichloroethane	5.740	62	5063	0.420 ug/L		75
47) Methyl cyclohexane	6.116	83	5684	0.375 ug/L		100
48) Trichloroethene	6.130	95	4256	0.391 ug/L	#	55
50) Dibromomethane	6.574	93	2273M1	0.427 ug/L		
51) 1,2-Dichloropropane	6.674	63	4007M1	0.422 ug/L		
53) 2-Chloroethyl vinyl ether	7.380	63	1387M1	0.353 ug/L		
54) Bromodichloromethane	6.749	83	5457M3	0.404 ug/L		
57) 1,4-Dioxane	6.961	88	2297	69.172 ug/L	#	58
58) cis-1,3-Dichloropropene	7.438	75	5387	0.365 ug/L	#	85
61) Toluene	7.695	92	8858	0.385 ug/L		96
62) 4-Methyl-2-pentanone	8.147	58	500M3	0.258 ug/L		
63) Tetrachloroethene	8.144	166	3715	0.351 ug/L		91
65) trans-1,3-Dichloropropene	8.188	75	4818	0.383 ug/L	#	83
67) Ethyl methacrylate	8.389	69	2975M1	0.362 ug/L		
68) 1,1,2-Trichloroethane	8.372	83	2497M3	0.427 ug/L		
69) Chlorodibromomethane	8.582	129	3554	0.391 ug/L		99
70) 1,3-Dichloropropane	8.685	76	4700M1	0.395 ug/L		
71) 1,2-Dibromoethane	8.869	107	2580M3	0.389 ug/L		
72) 2-Hexanone	0.000		0	N.D. d		
73) Chlorobenzene	9.491	112	9906	0.392 ug/L	#	84
74) Ethylbenzene	9.535	91	15627	0.349 ug/L	#	73
75) 1,1,1,2-Tetrachloroethane	9.577	131	3508	0.370 ug/L	#	39
76) p/m Xylene	9.725	106	12742M1	0.738 ug/L		
77) o Xylene	10.266	106	11837	0.717 ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N05.D
Acq On : 7 May 2024 7:47 pm
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1918530,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 08 10:44:43 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.338	104	19602	0.728	ug/L		99
80) Bromoform	10.366	173	2131M3	0.402	ug/L		
82) Isopropylbenzene	10.648	105	16036	0.380	ug/L		97
84) Bromobenzene	11.091	156	4266M3	0.409	ug/L		
85) n-Propylbenzene	11.133	91	18915	0.385	ug/L		98
86) 1,4-Dichlorobutane	11.155	55	5223	0.520	ug/L	#	84
87) 1,1,2,2-Tetrachloroethane	11.222	83	3370	0.501	ug/L		97
88) 4-Ethyltoluene	11.259	105	15187	0.377	ug/L		99
89) 2-Chlorotoluene	11.306	91	11690M1	0.404	ug/L		
90) 1,3,5-Trimethylbenzene	11.362	105	14013	0.402	ug/L		94
91) 1,2,3-Trichloropropane	11.365	75	2773	0.465	ug/L		90
92) trans-1,4-Dichloro-2-b...	11.426	53	823	0.412	ug/L	#	13
93) 4-Chlorotoluene	11.493	91	11978	0.403	ug/L		94
94) tert-Butylbenzene	11.696	119	11572	0.396	ug/L		91
97) 1,2,4-Trimethylbenzene	11.780	105	13133	0.385	ug/L		95
98) sec-Butylbenzene	11.886	105	16723	0.400	ug/L		94
99) p-Isopropyltoluene	12.037	119	13439	0.375	ug/L		96
100) 1,3-Dichlorobenzene	12.123	146	7432	0.389	ug/L	#	85
101) 1,4-Dichlorobenzene	12.204	146	8279	0.426	ug/L	#	79
102) p-Diethylbenzene	12.419	119	7421	0.368	ug/L		93
103) n-Butylbenzene	12.483	91	11415M4	0.386	ug/L		
104) 1,2-Dichlorobenzene	12.636	146	6876	0.400	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.213	119	11701	0.397	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.409	155	369	0.363	ug/L		92
107) 1,3,5-Trichlorobenzene	13.445	180	4609	0.379	ug/L	#	92
108) Hexachlorobutadiene	14.017	225	1802	0.381	ug/L	#	87
109) 1,2,4-Trichlorobenzene	14.053	180	4043	0.398	ug/L		95
110) Naphthalene	14.343	128	7489	0.420	ug/L		100
111) 1,2,3-Trichlorobenzene	14.502	180	3361	0.425	ug/L		98

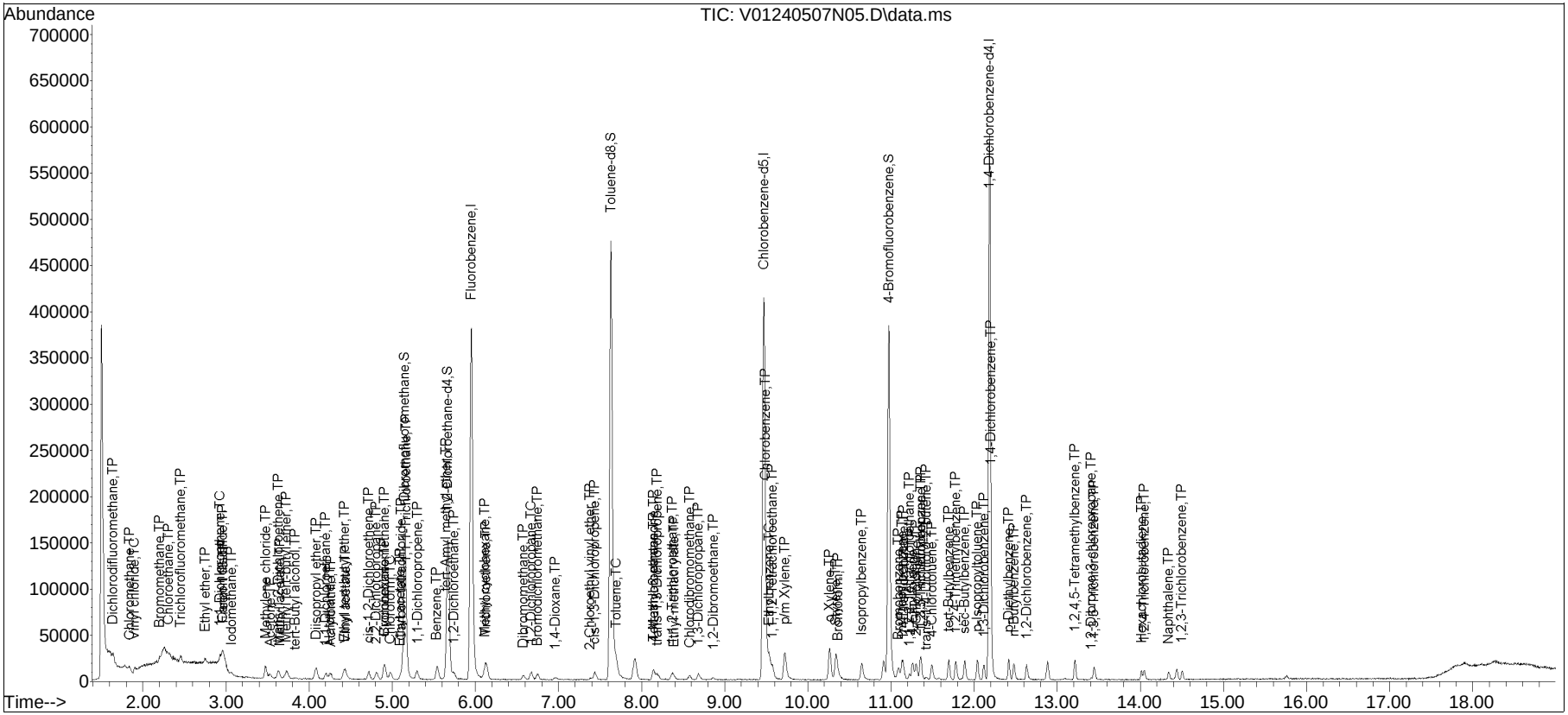
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N05.D
Acq On : 7 May 2024 7:47 pm
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG1918530,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 08 10:44:43 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

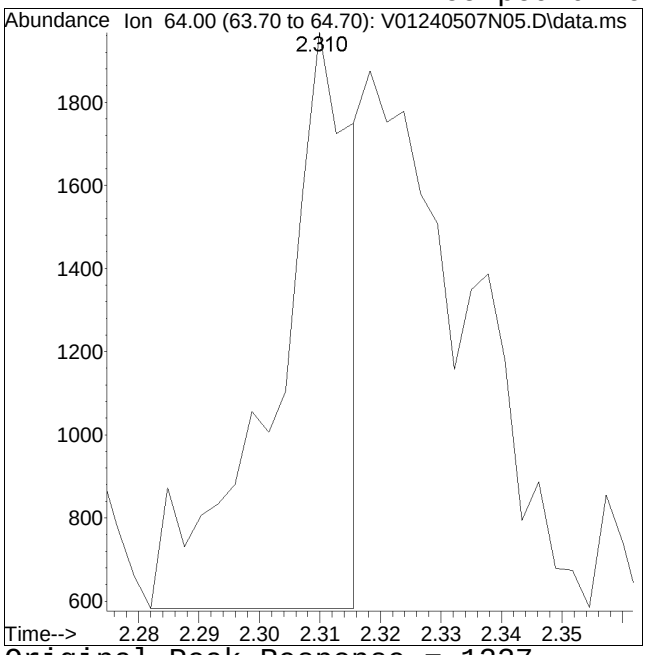
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•



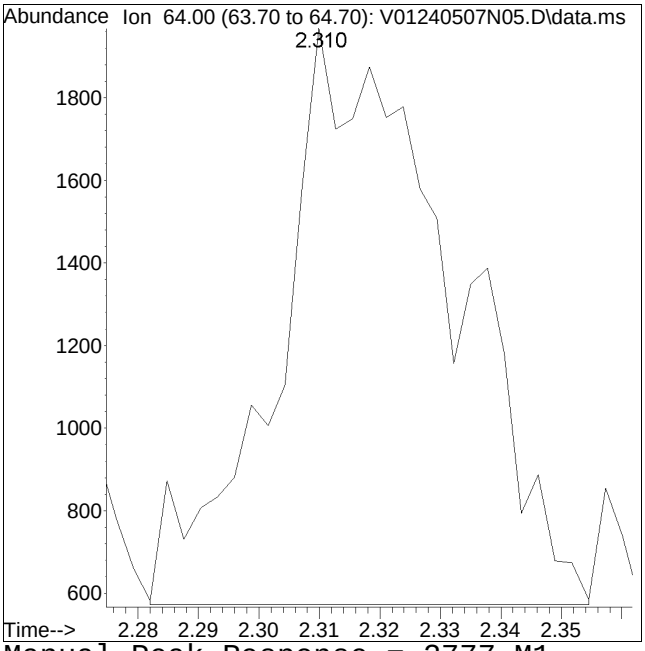
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #6: Chloroethane



Original Peak Response = 1227



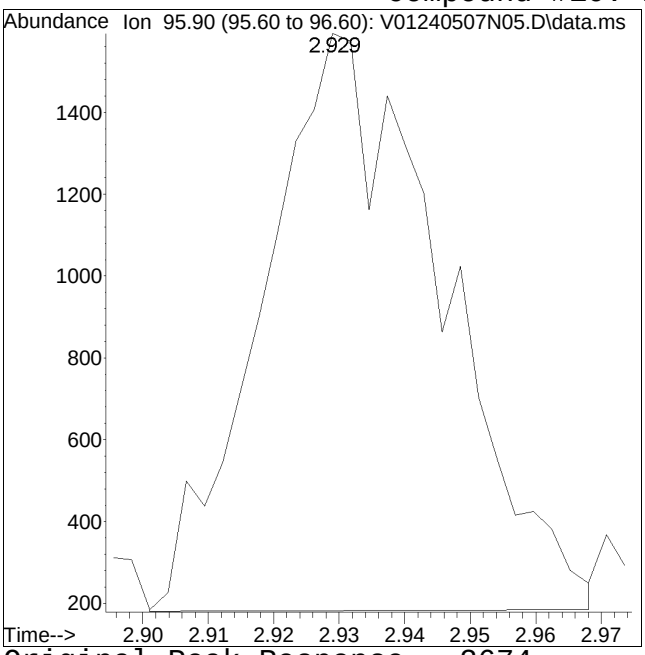
Manual Peak Response = 2777 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

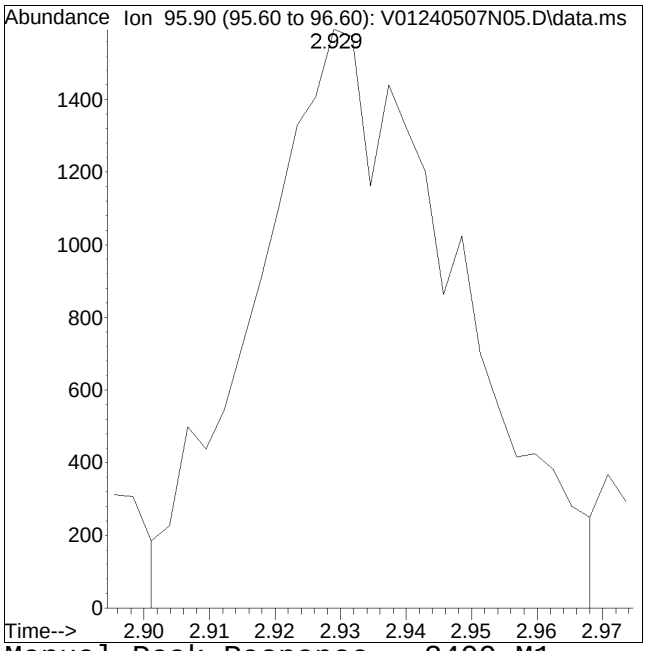
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #10: 1,1-Dichloroethene



Original Peak Response = 2674



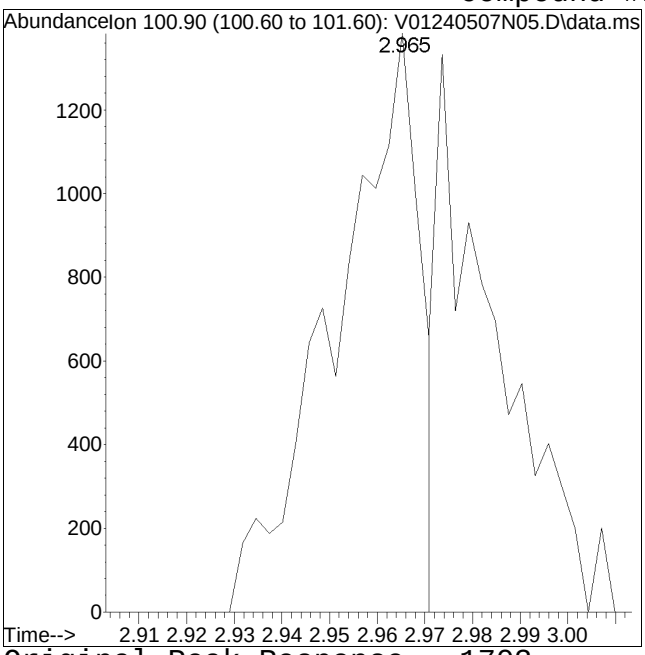
Manual Peak Response = 3409 M1

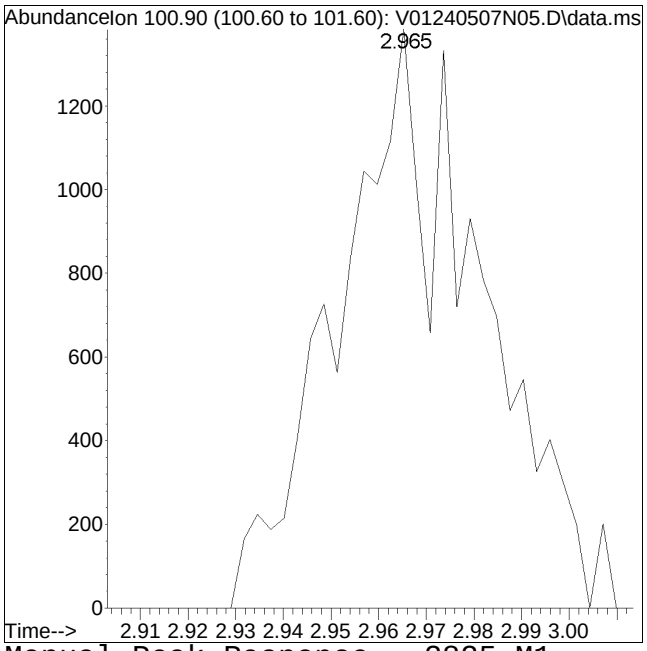
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #12: Freon-113



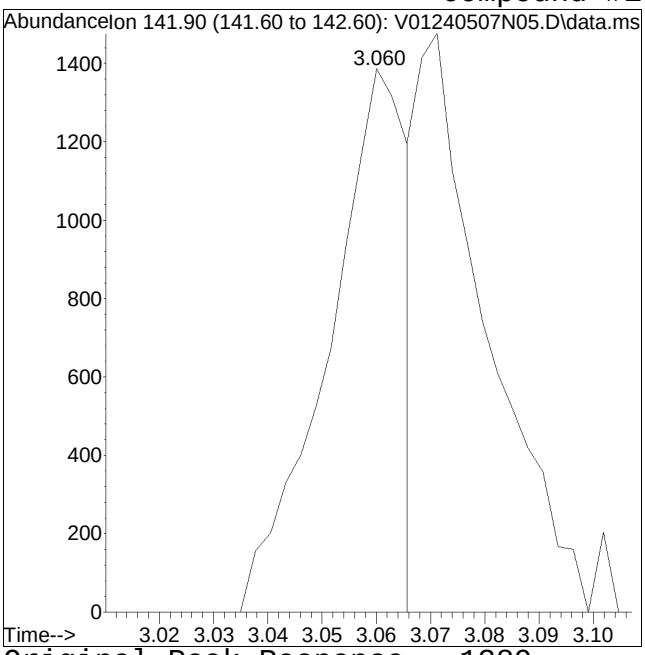


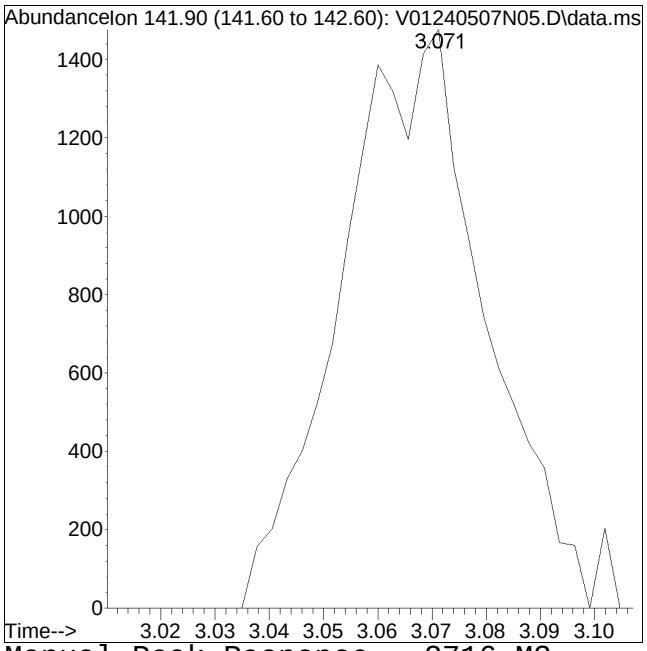
Original Peak Response = 1703 Manual Peak Response = 2825 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #13: Iodomethane





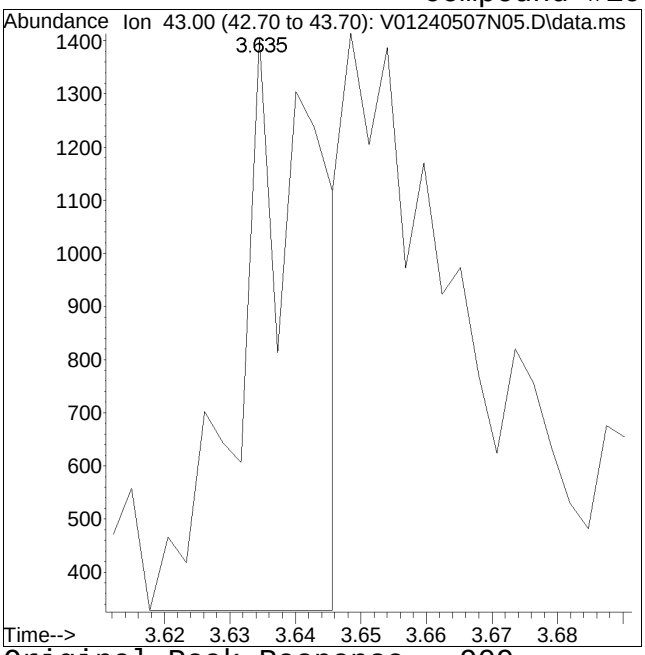
Original Peak Response = 1389 Manual Peak Response = 2716 M3

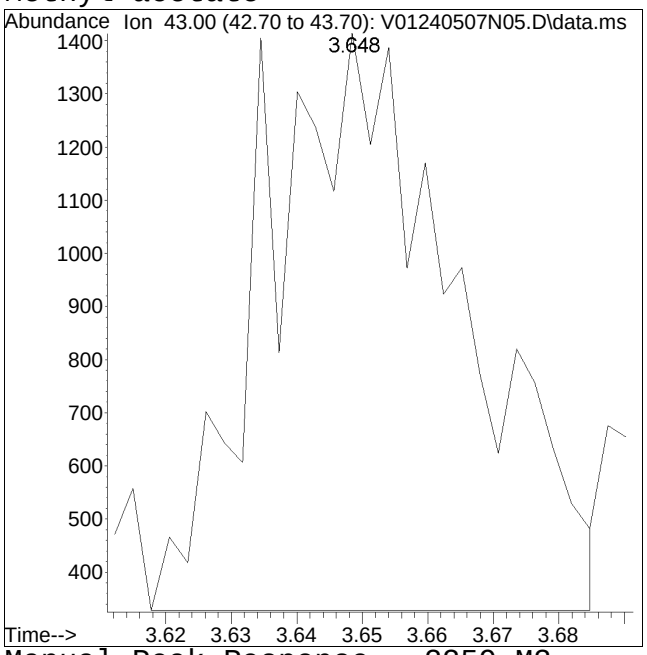
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #19: Methyl acetate





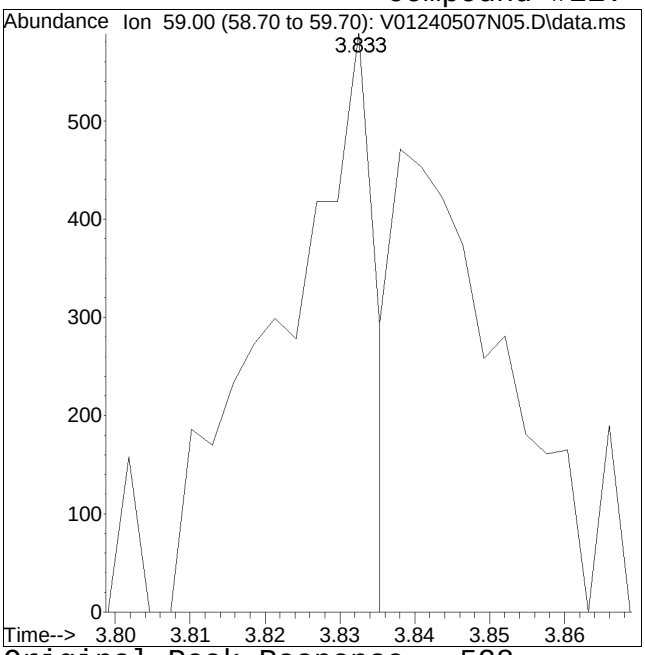
Original Peak Response = 909 Manual Peak Response = 2259 M3

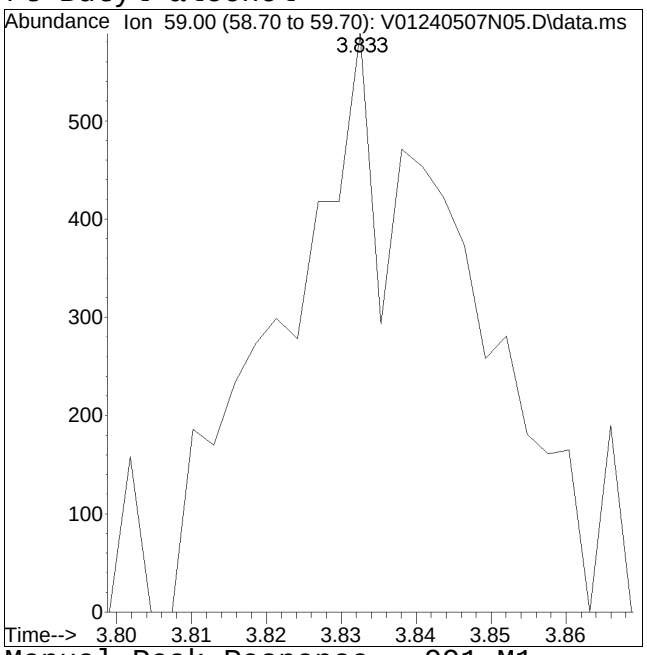
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #21: tert-Butyl alcohol



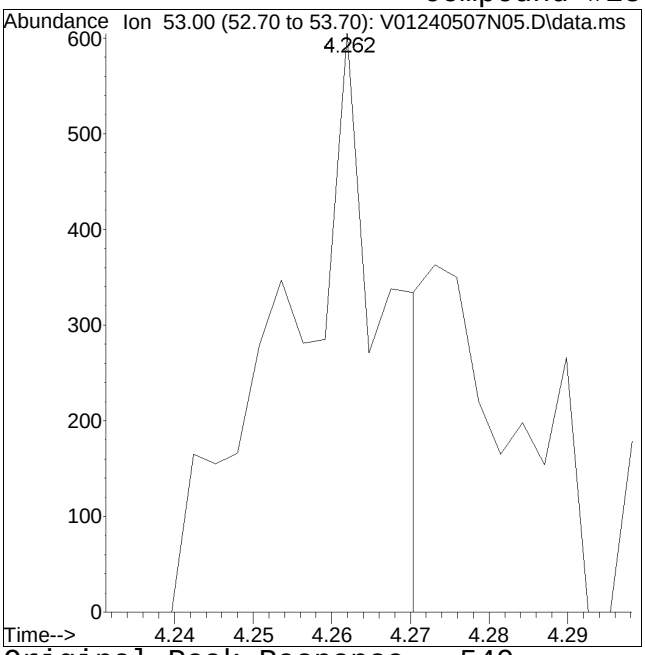


Original Peak Response = 528 Manual Peak Response = 991 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

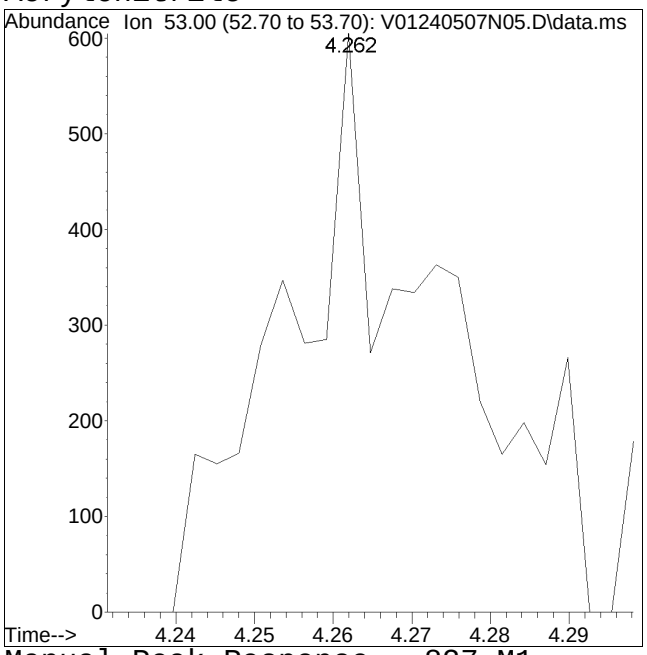
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #25: Acrylonitrile



Original Peak Response = 540



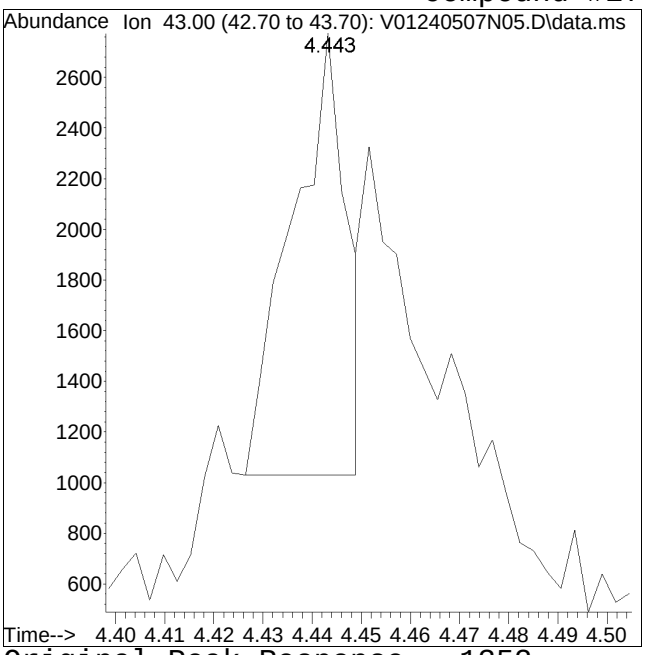
Manual Peak Response = 827 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

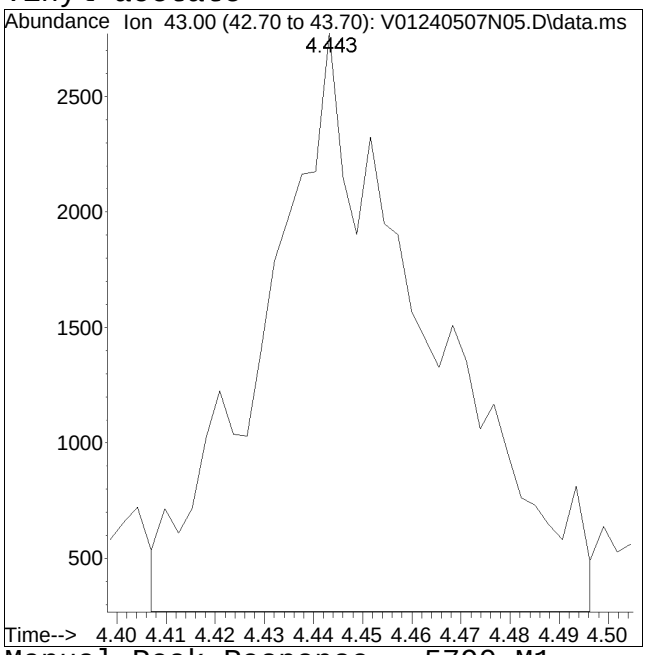
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #27: Vinyl acetate



Original Peak Response = 1352



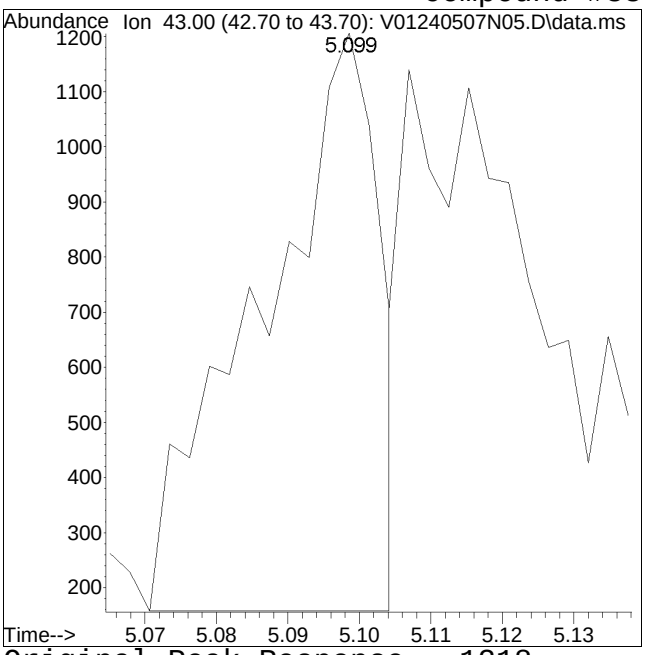
Manual Peak Response = 5790 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

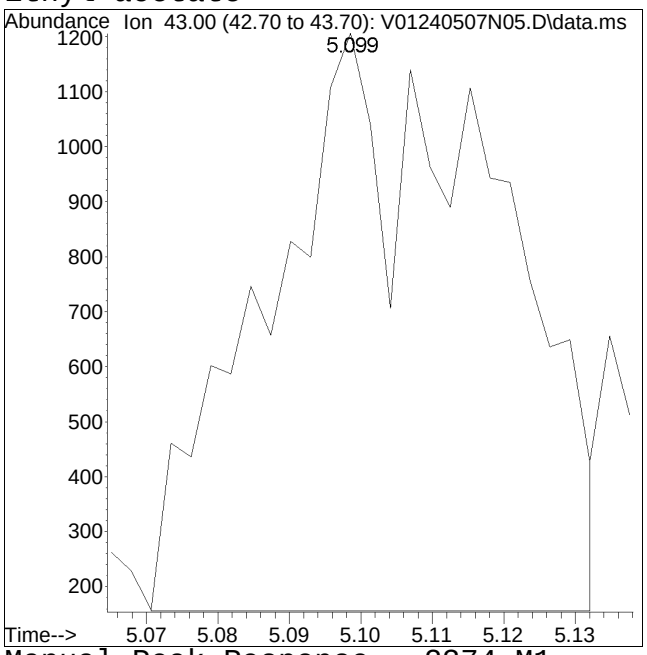
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #33: Ethyl acetate



Original Peak Response = 1218



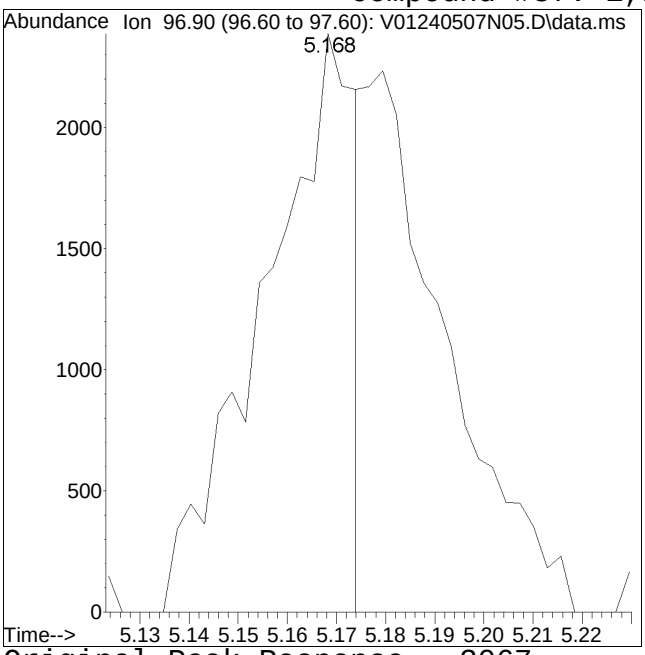
Manual Peak Response = 2374 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

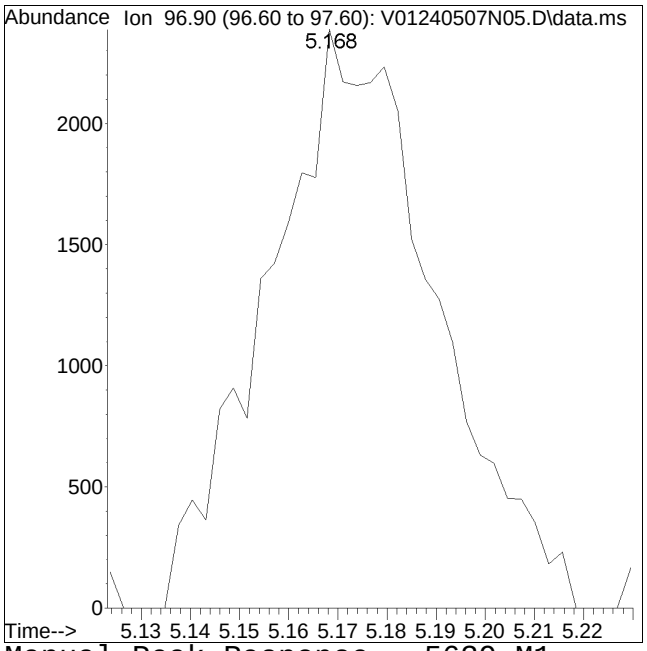
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #37: 1,1,1-Trichloroethane



Original Peak Response = 3067



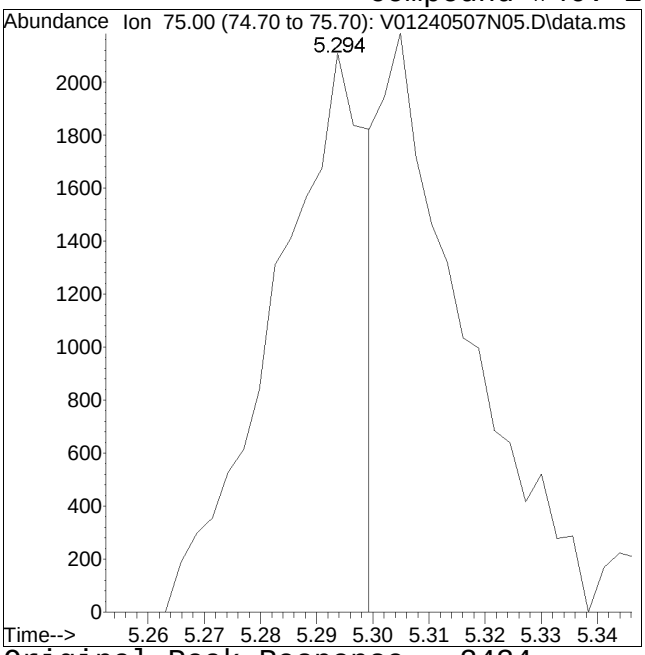
Manual Peak Response = 5639 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

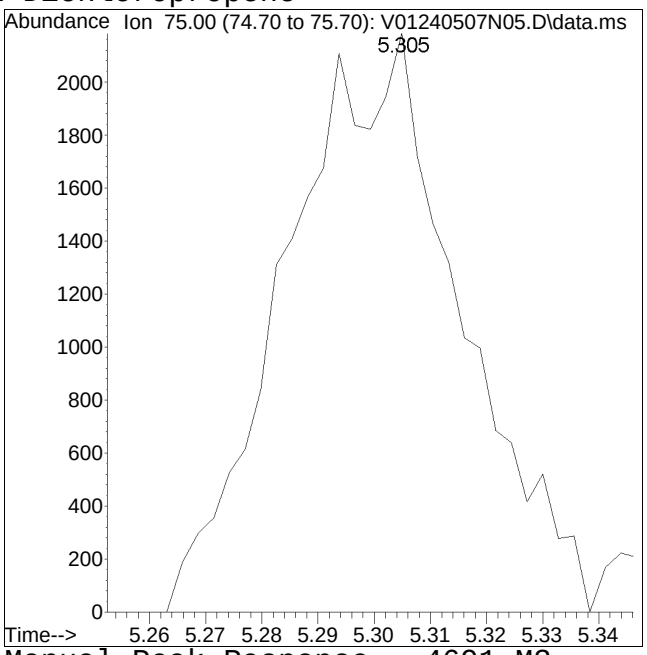
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #40: 1,1-Dichloropropene



Original Peak Response = 2434

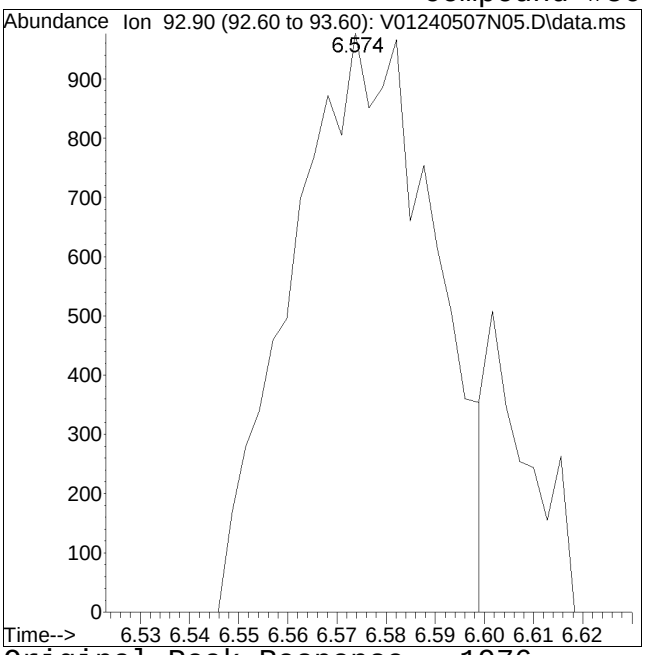


Manual Peak Response = 4691 M3

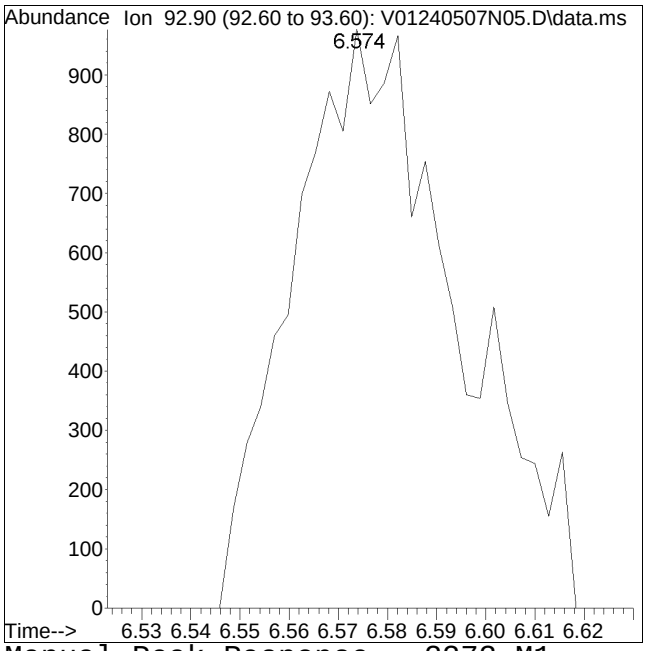
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #50: Dibromomethane



Original Peak Response = 1976



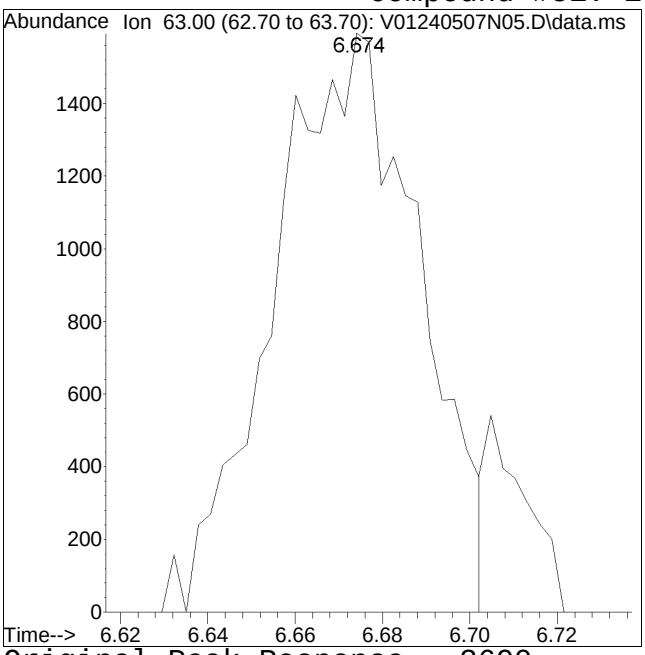
Manual Peak Response = 2273 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

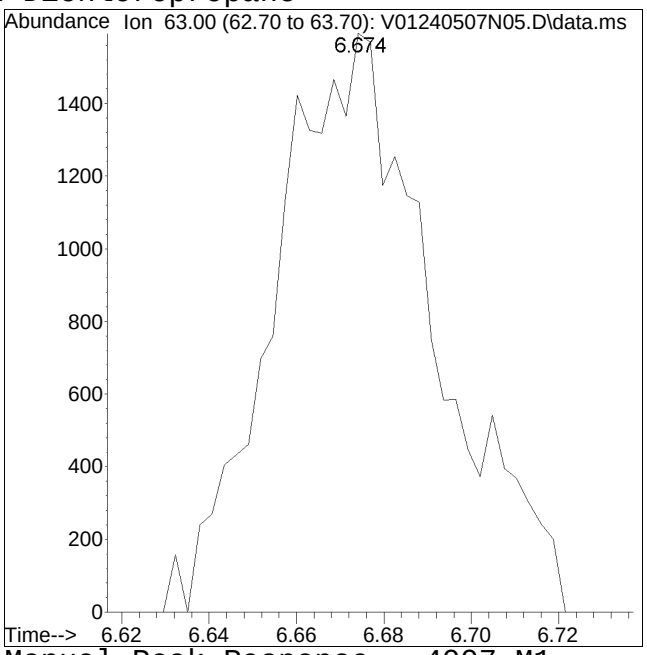
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #51: 1,2-Dichloropropane



Original Peak Response = 3690



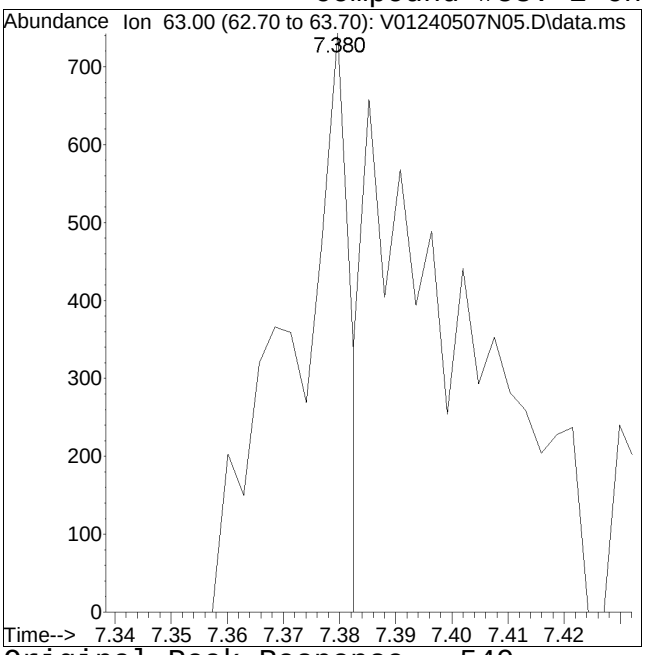
Manual Peak Response = 4007 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

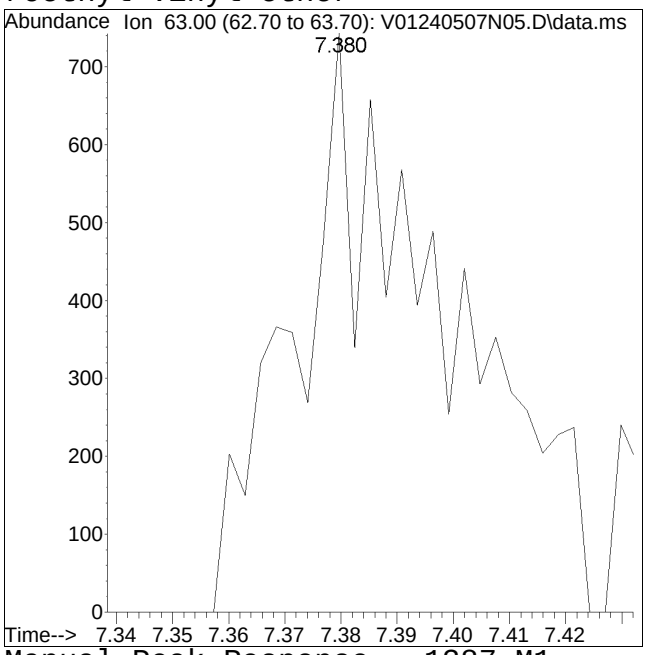
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 540



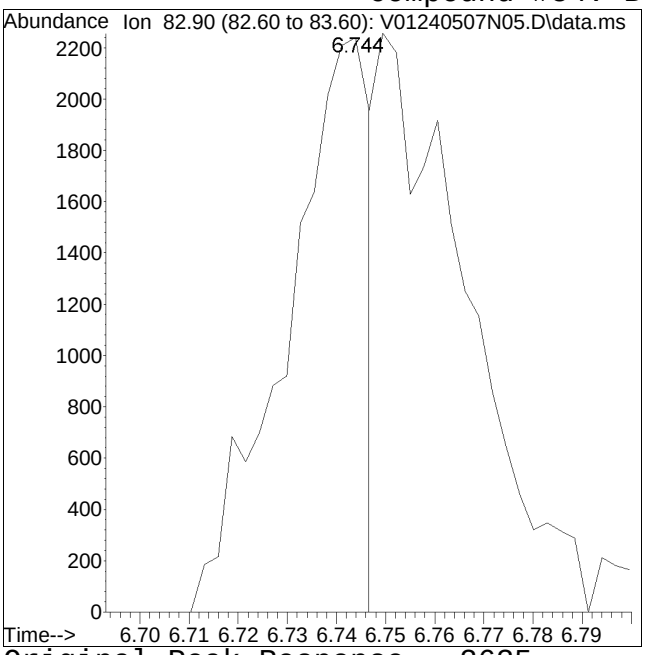
Manual Peak Response = 1387 M1

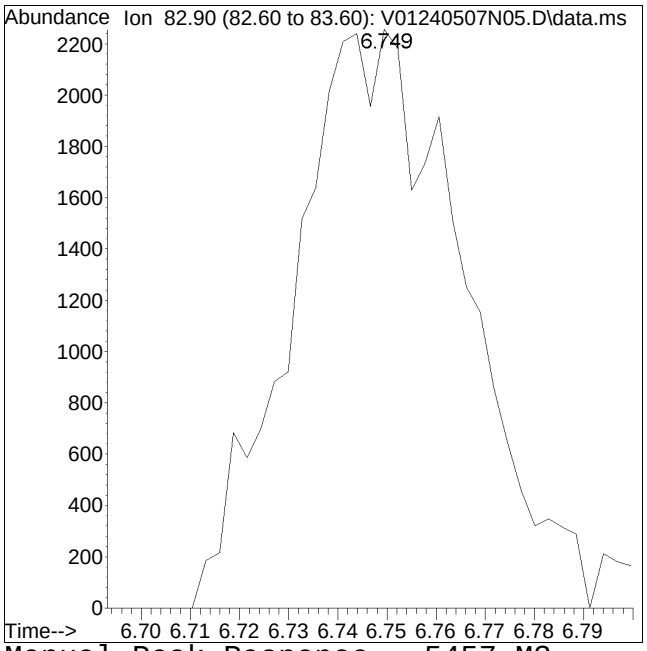
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #54: Bromodichloromethane





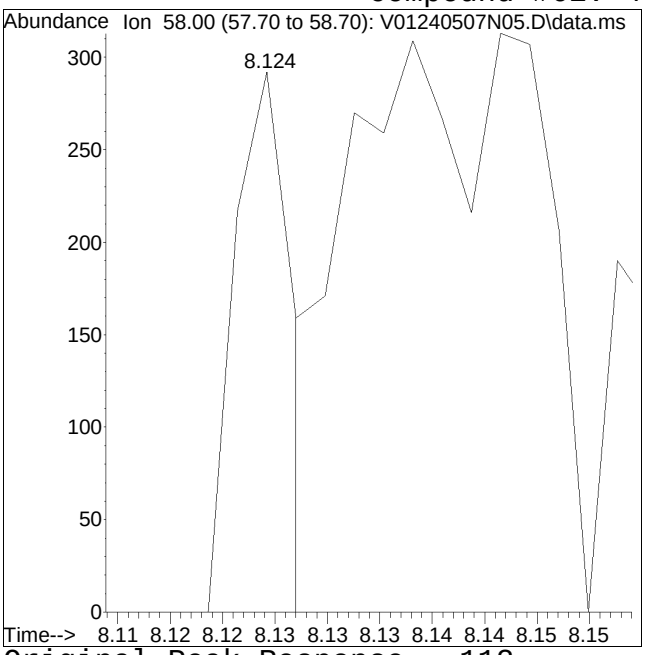
Original Peak Response = 2635 Manual Peak Response = 5457 M3

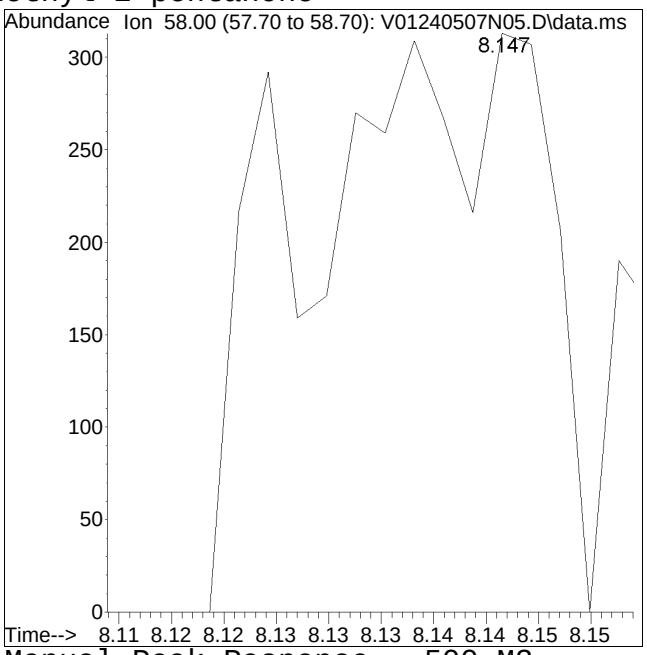
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #62: 4-Methyl-2-pentanone





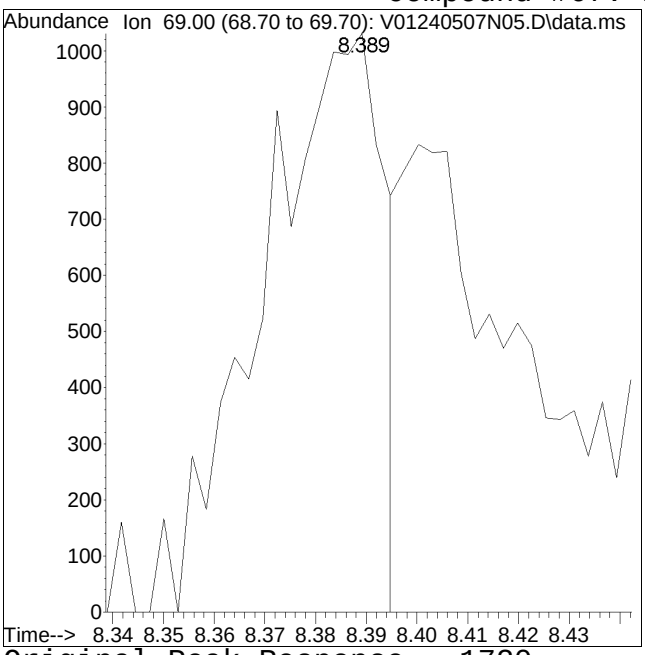
Original Peak Response = 112 Manual Peak Response = 500 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

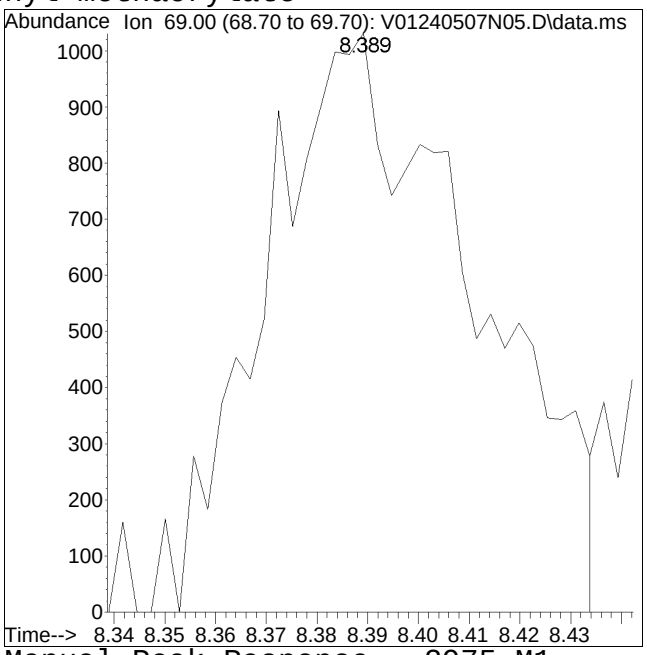
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #67: Ethyl methacrylate



Original Peak Response = 1720



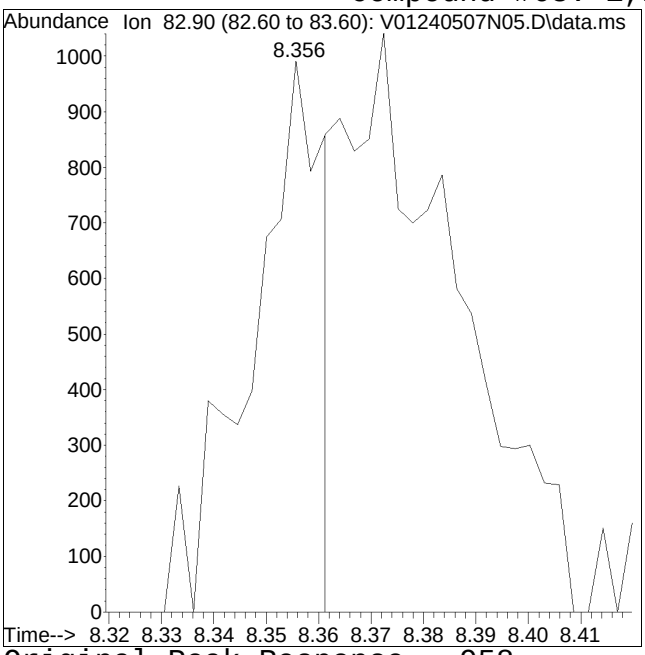
Manual Peak Response = 2975 M1

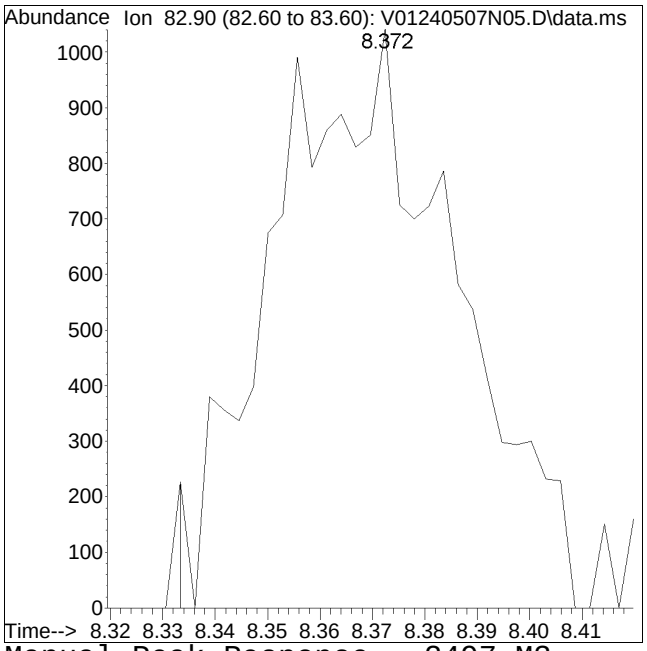
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #68: 1,1,2-Trichloroethane





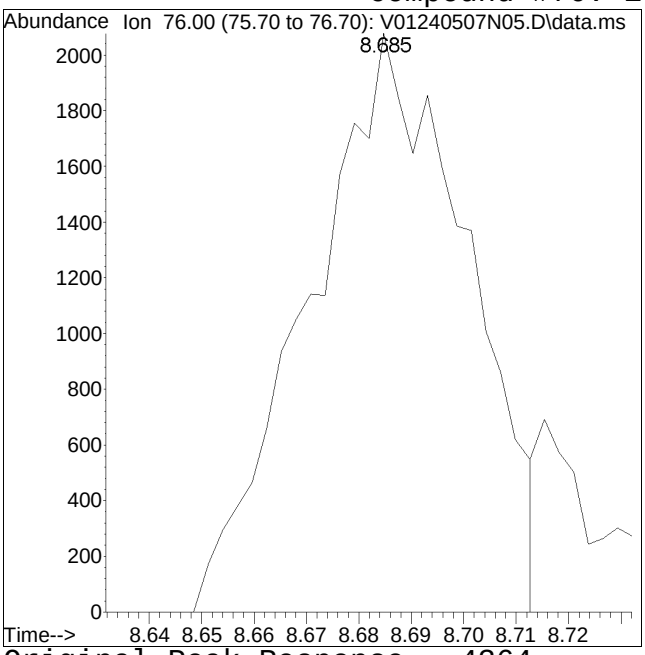
Original Peak Response = 958 Manual Peak Response = 2497 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

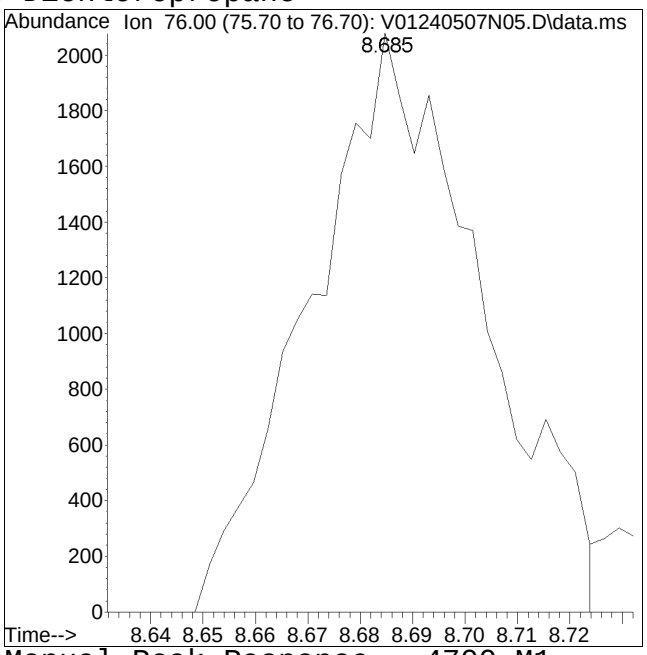
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #70: 1,3-Dichloropropane



Original Peak Response = 4364



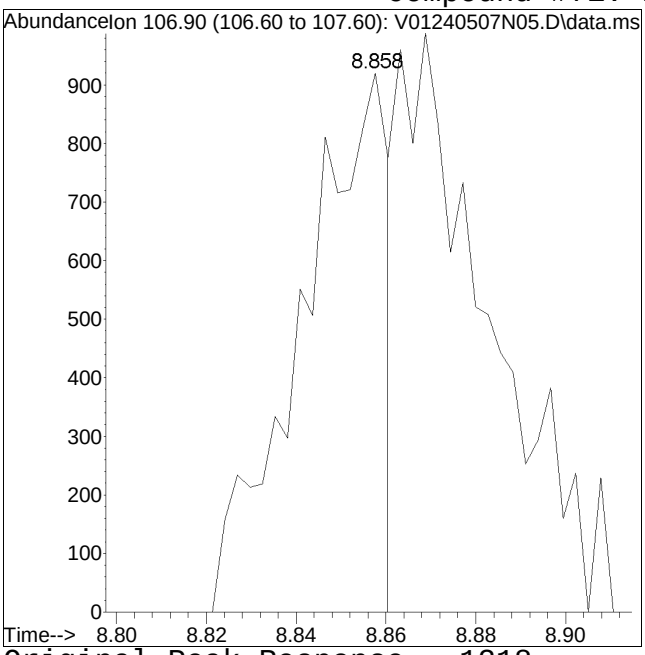
Manual Peak Response = 4700 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

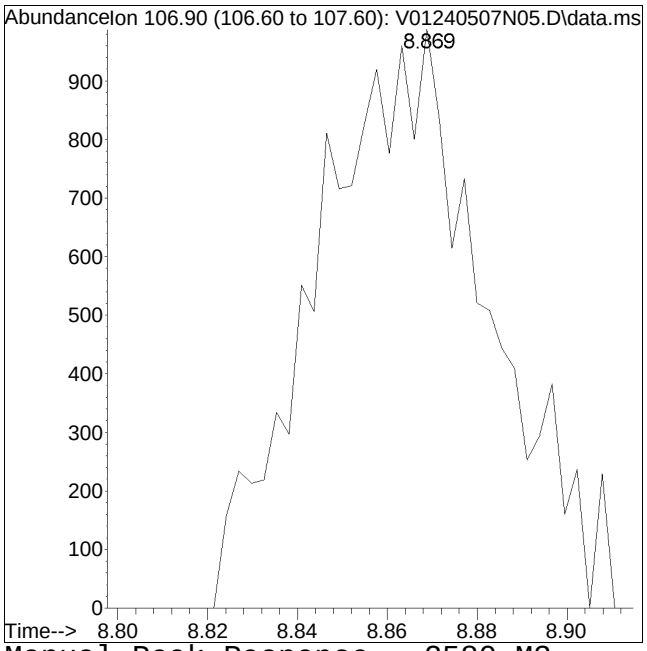
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #71: 1,2-Dibromoethane



Original Peak Response = 1218



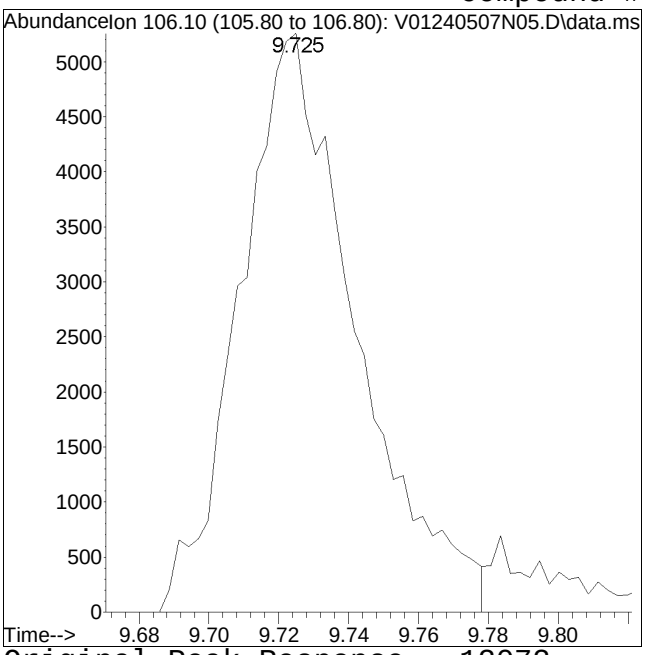
Manual Peak Response = 2580 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

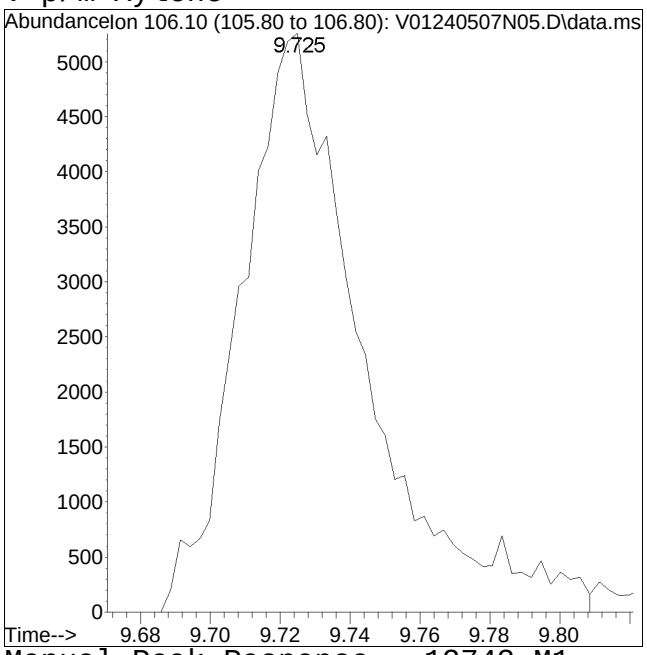
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #76: p/m Xylene



Original Peak Response = 12072



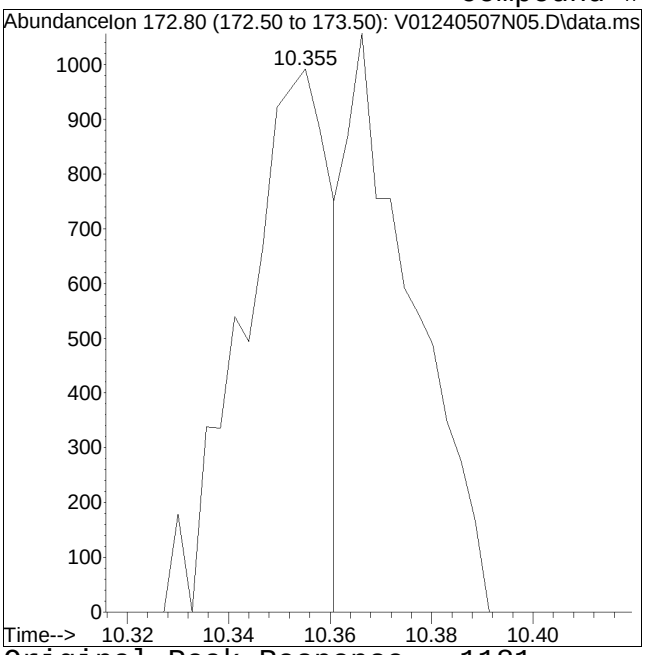
Manual Peak Response = 12742 M1

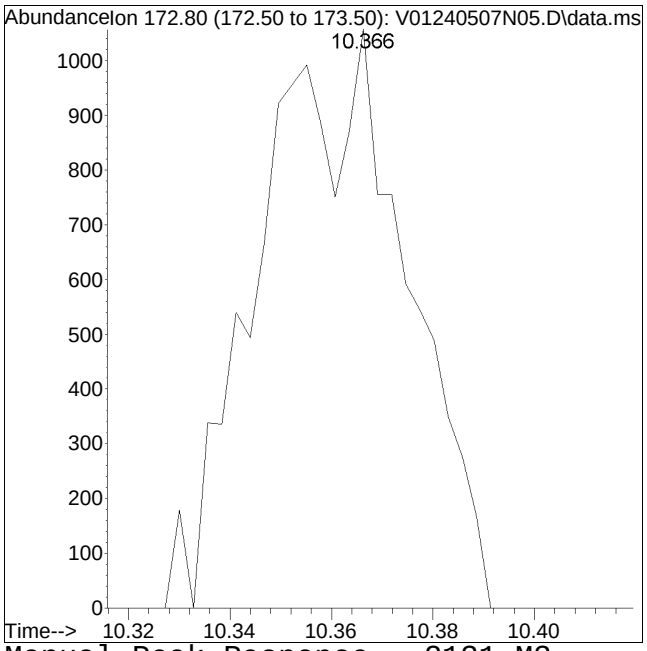
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #80: Bromoform





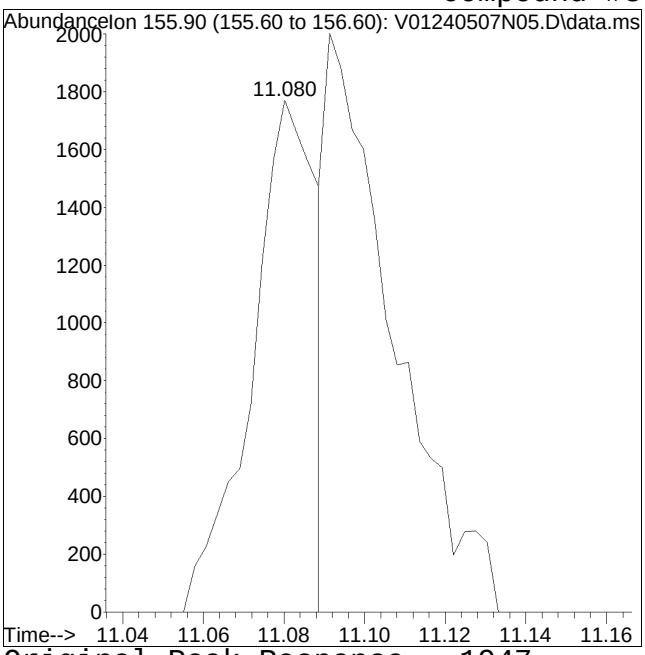
Original Peak Response = 1181 Manual Peak Response = 2131 M3

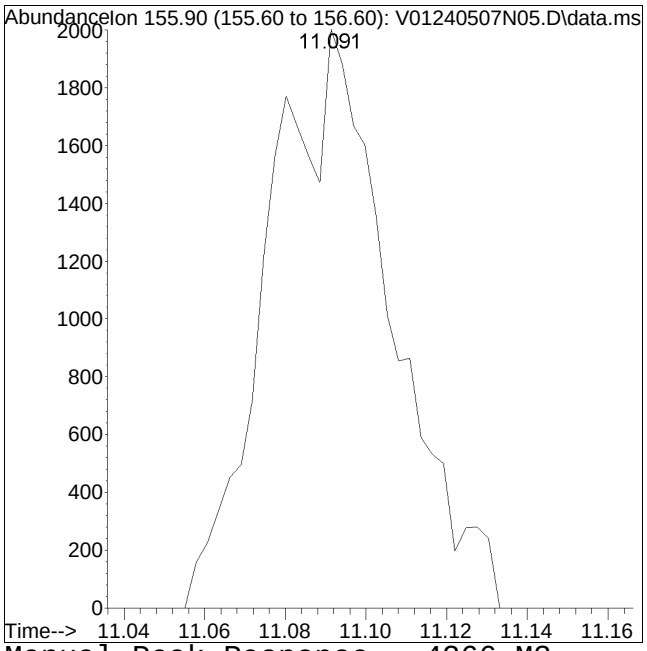
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #84: Bromobenzene





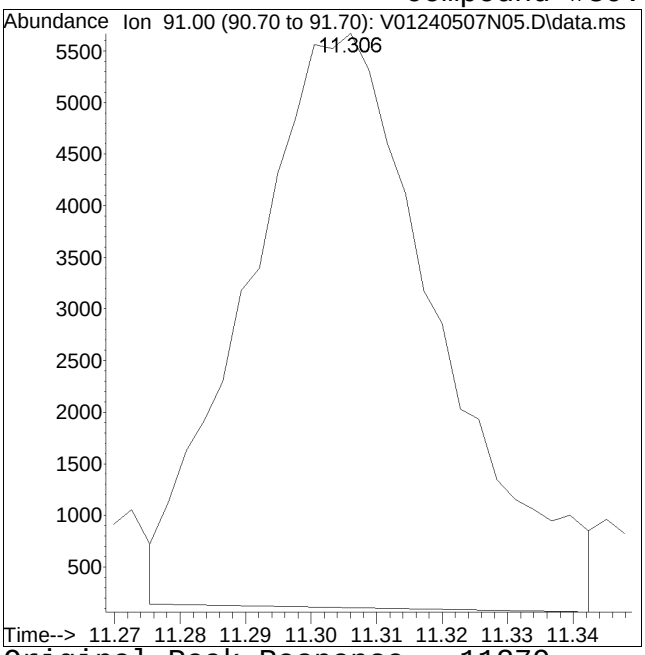
Original Peak Response = 1947 Manual Peak Response = 4266 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

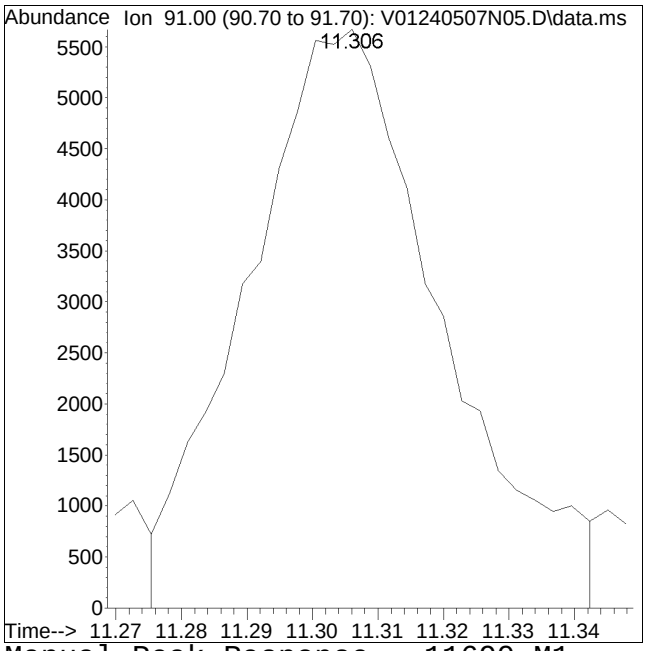
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 11279



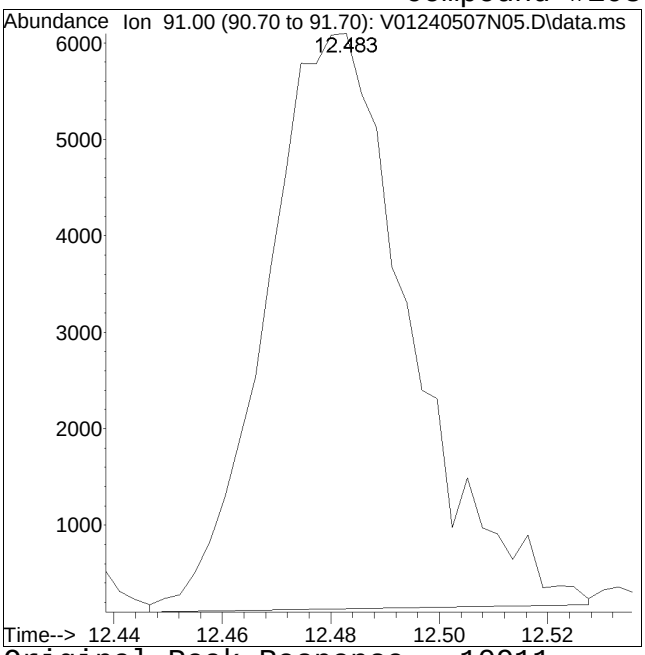
Manual Peak Response = 11690 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

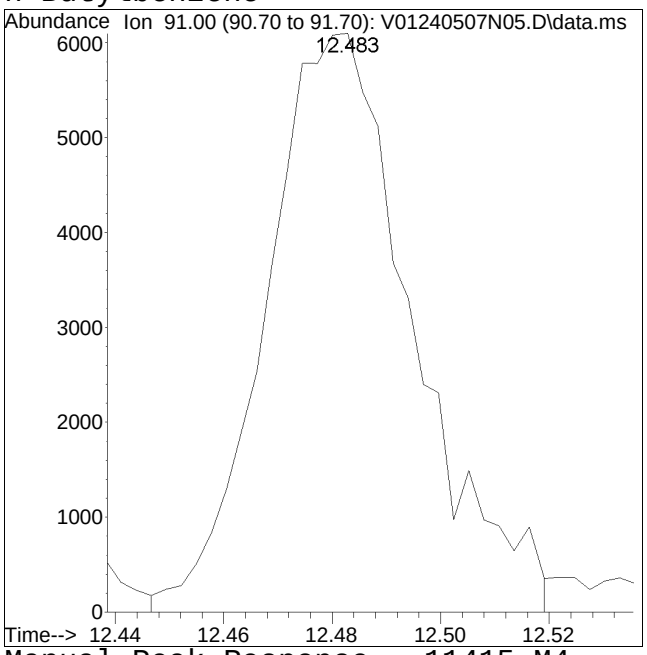
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N05.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 7:47 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 5/8/2024 10:44 am

Compound #103: n-Butylbenzene



Original Peak Response = 10911



Manual Peak Response = 11415 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N07.D
Acq On : 7 May 2024 8:39 pm
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1918530,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 08 10:44:52 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	384243	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 97.31%			
59) Chlorobenzene-d5	9.471	117	284302	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 95.82%			
79) 1,4-Dichlorobenzene-d4	12.187	152	160703	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 96.01%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.152	113	102068	9.866	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.66%			
43) 1,2-Dichloroethane-d4	5.670	65	118249	9.971	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.71%			
60) Toluene-d8	7.631	98	374907	10.111	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%			
83) 4-Bromofluorobenzene	10.974	95	142230	10.216	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.646	85	25695	2.229	ug/L	99
3) Chloromethane	1.836	50	25082	2.221	ug/L	98
4) Vinyl chloride	1.903	62	19932	2.232	ug/L	99
5) Bromomethane	2.204	94	12804	2.178	ug/L	98
6) Chloroethane	2.321	64	11096M6	2.043	ug/L	
7) Trichlorofluoromethane	2.455	101	31581	2.221	ug/L	96
8) Ethyl ether	2.751	74	7027	2.056	ug/L	94
10) 1,1-Dichloroethene	2.932	96	15898	2.200	ug/L	92
11) Carbon disulfide	2.960	76	45834	2.106	ug/L	96
12) Freon-113	2.971	101	17007	2.222	ug/L	87
13) Iodomethane	3.066	142	15140	1.508	ug/L	99
14) Acrolein	3.253	56	2376M3	2.315	ug/L	
15) Methylene chloride	3.478	84	19003	2.002	ug/L	99
17) Acetone	3.526	43	8363	2.159	ug/L	98
18) trans-1,2-Dichloroethene	3.626	96	18858	2.167	ug/L	96
19) Methyl acetate	3.640	43	7613M1	1.979	ug/L	
20) Methyl tert-butyl ether	3.729	73	41059	1.992	ug/L	96
21) tert-Butyl alcohol	3.827	59	3432M1	8.988	ug/L	
22) Diisopropyl ether	4.086	45	59315	2.046	ug/L #	80
23) 1,1-Dichloroethane	4.201	63	34037	2.050	ug/L	98
24) Halothane	4.254	117	13687	2.124	ug/L	98

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N07.D
Acq On : 7 May 2024 8:39 pm
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1918530,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 08 10:44:52 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.254	53	3394M1	2.020	ug/L		
26) Ethyl tert-butyl ether	4.421	59	51577	2.022	ug/L	#	83
27) Vinyl acetate	4.435	43	21758	2.037	ug/L	#	91
28) cis-1,2-Dichloroethene	4.717	96	19435	2.017	ug/L		99
29) 2,2-Dichloropropane	4.809	77	29689M1	2.217	ug/L		
30) Bromochloromethane	4.909	128	9130	2.140	ug/L		94
31) Cyclohexane	4.909	56	31442	2.183	ug/L		96
32) Chloroform	4.979	83	32985	2.020	ug/L		97
33) Ethyl acetate	5.093	43	10465M1	1.861	ug/L		
34) Carbon tetrachloride	5.110	117	27373	2.097	ug/L	#	90
35) Tetrahydrofuran	5.138	42	3808M4	2.319	ug/L		
37) 1,1,1-Trichloroethane	5.174	97	31419	2.149	ug/L		99
39) 2-Butanone	5.277	43	3221M1	1.455	ug/L		
40) 1,1-Dichloropropene	5.297	75	26236	2.148	ug/L		99
41) Benzene	5.539	78	73142	2.083	ug/L		100
42) tert-Amyl methyl ether	5.654	73	44130	1.990	ug/L		97
44) 1,2-Dichloroethane	5.743	62	23107	2.024	ug/L		96
47) Methyl cyclohexane	6.114	83	30324M1	2.110	ug/L		
48) Trichloroethene	6.133	95	21498	2.082	ug/L		97
50) Dibromomethane	6.574	93	10033	1.990	ug/L	#	76
51) 1,2-Dichloropropane	6.666	63	18035	2.001	ug/L		98
53) 2-Chloroethyl vinyl ether	7.366	63	6768	1.815	ug/L	#	73
54) Bromodichloromethane	6.747	83	25365	1.981	ug/L		97
57) 1,4-Dioxane	6.959	88	10183M1	323.443	ug/L		
58) cis-1,3-Dichloropropene	7.433	75	27377	1.958	ug/L	#	89
61) Toluene	7.689	92	45734	2.107	ug/L		99
62) 4-Methyl-2-pentanone	8.130	58	3698M3	2.021	ug/L		
63) Tetrachloroethene	8.144	166	20577	2.057	ug/L	#	82
65) trans-1,3-Dichloropropene	8.183	75	22607	1.903	ug/L		96
67) Ethyl methacrylate	8.364	69	14082	1.814	ug/L		98
68) 1,1,2-Trichloroethane	8.361	83	11266	2.042	ug/L		97
69) Chlorodibromomethane	8.573	129	16299	1.898	ug/L		98
70) 1,3-Dichloropropane	8.682	76	22919	2.042	ug/L		100
71) 1,2-Dibromoethane	8.847	107	12410	1.980	ug/L		100
72) 2-Hexanone	9.156	43	6898M4	1.852	ug/L		
73) Chlorobenzene	9.491	112	48932	2.049	ug/L		93
74) Ethylbenzene	9.527	91	87941	2.078	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.574	131	17508	1.954	ug/L		96
76) p/m Xylene	9.717	106	65893	4.043	ug/L		98
77) o Xylene	10.260	106	62817	4.029	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N07.D
Acq On : 7 May 2024 8:39 pm
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1918530,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 08 10:44:52 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.327	104	96974	3.816	ug/L		97
80) Bromoform	10.355	173	9416	1.838	ug/L	#	57
82) Isopropylbenzene	10.645	105	83234	2.043	ug/L		98
84) Bromobenzene	11.089	156	19737	1.962	ug/L		99
85) n-Propylbenzene	11.130	91	96260	2.029	ug/L		99
86) 1,4-Dichlorobutane	11.144	55	20218	2.085	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.220	83	13298	2.045	ug/L		99
88) 4-Ethyltoluene	11.256	105	78086	2.005	ug/L		99
89) 2-Chlorotoluene	11.301	91	55953M1	2.000	ug/L		
90) 1,3,5-Trimethylbenzene	11.354	105	66159	1.964	ug/L		97
91) 1,2,3-Trichloropropane	11.359	75	11834M1	2.055	ug/L		
92) trans-1,4-Dichloro-2-b...	11.418	53	3748	1.942	ug/L	#	70
93) 4-Chlorotoluene	11.485	91	57094	1.990	ug/L		98
94) tert-Butylbenzene	11.691	119	56864	2.016	ug/L		96
97) 1,2,4-Trimethylbenzene	11.775	105	65363	1.983	ug/L		97
98) sec-Butylbenzene	11.886	105	78313	1.938	ug/L		98
99) p-Isopropyltoluene	12.040	119	67662	1.955	ug/L		98
100) 1,3-Dichlorobenzene	12.112	146	35655	1.935	ug/L		98
101) 1,4-Dichlorobenzene	12.201	146	36630	1.951	ug/L		96
102) p-Diethylbenzene	12.416	119	36716	1.886	ug/L		98
103) n-Butylbenzene	12.475	91	55637	1.949	ug/L		97
104) 1,2-Dichlorobenzene	12.625	146	32178	1.941	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.211	119	53029	1.864	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.409	155	1774	1.806	ug/L		93
107) 1,3,5-Trichlorobenzene	13.442	180	22288	1.898	ug/L		98
108) Hexachlorobutadiene	14.011	225	8483	1.856	ug/L		97
109) 1,2,4-Trichlorobenzene	14.042	180	17802	1.817	ug/L		97
110) Naphthalene	14.332	128	31227	1.815	ug/L		100
111) 1,2,3-Trichlorobenzene	14.502	180	13931	1.826	ug/L		97

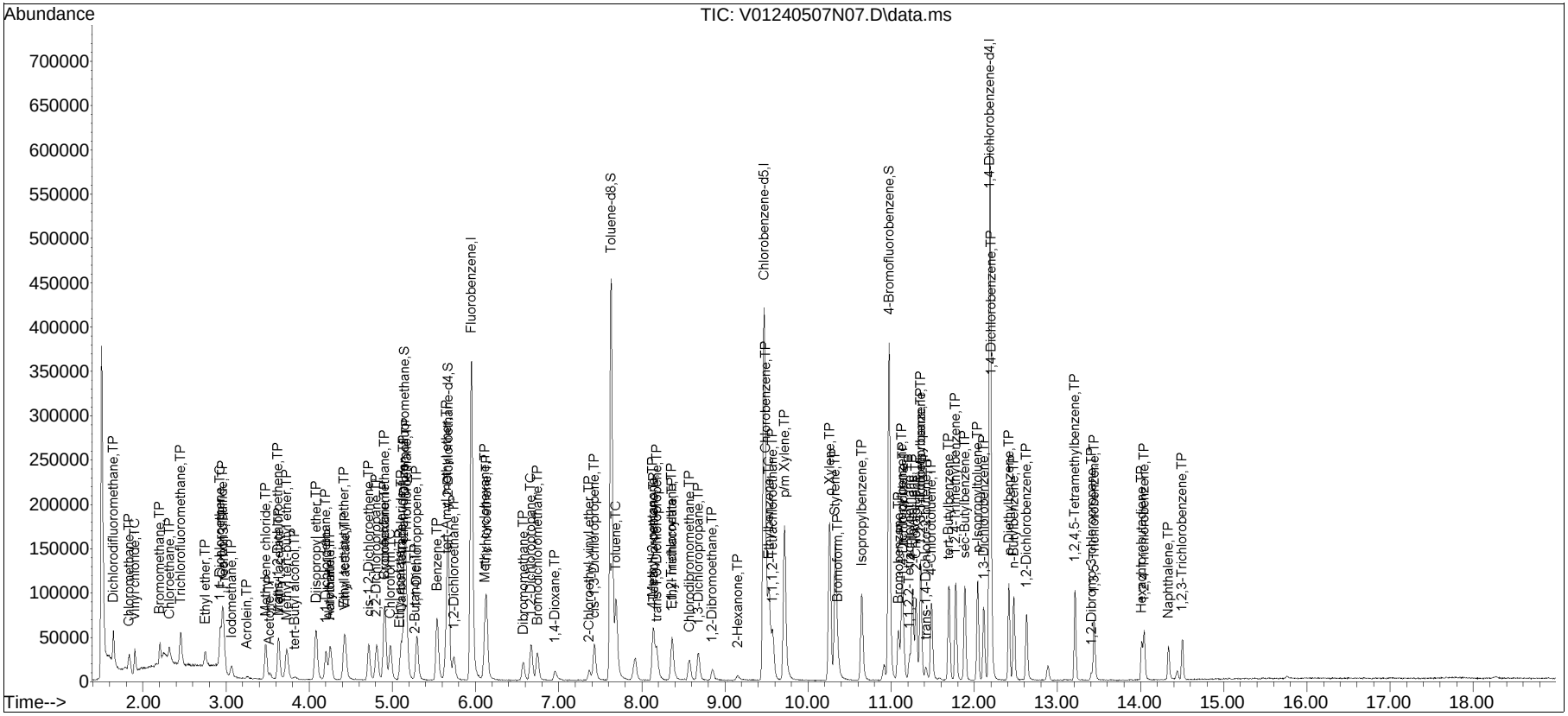
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N07.D
Acq On : 7 May 2024 8:39 pm
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG1918530,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 08 10:44:52 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

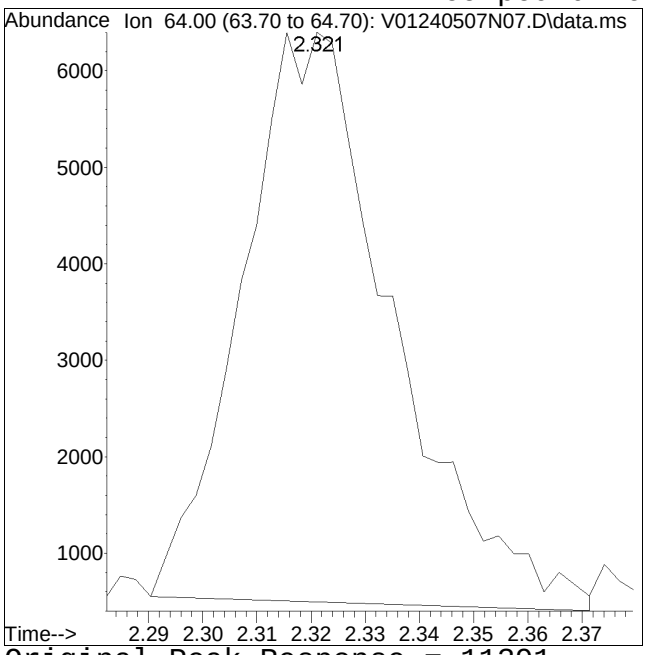
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•



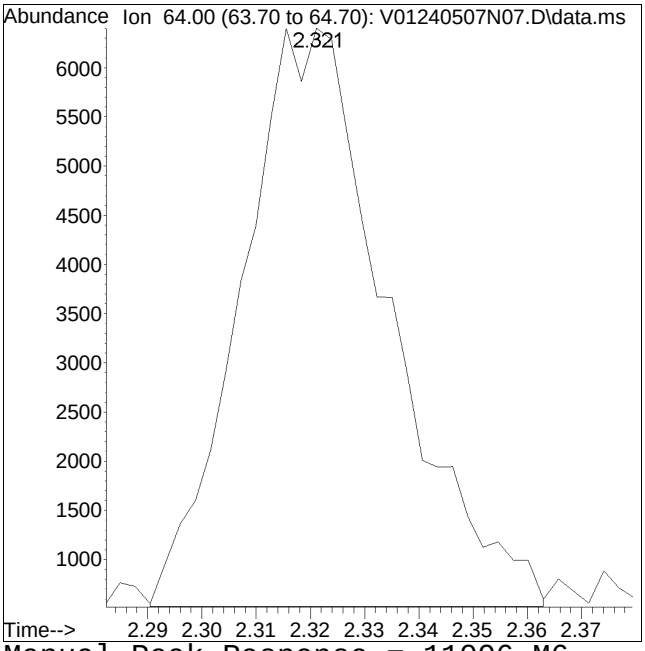
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #6: Chloroethane



Original Peak Response = 11391



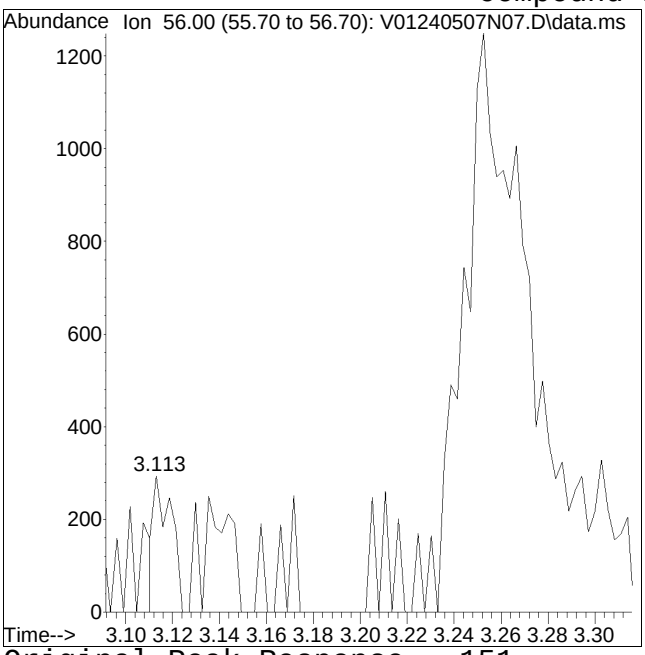
Manual Peak Response = 11096 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

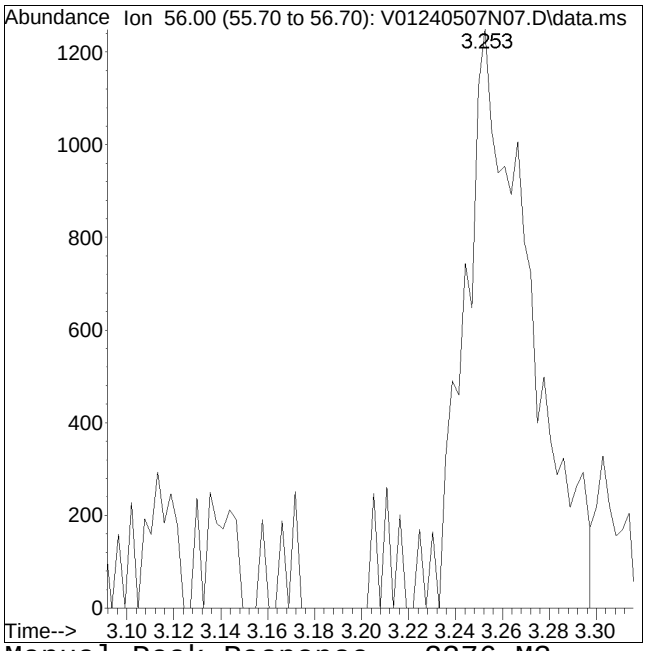
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #14: Acrolein



Original Peak Response = 151



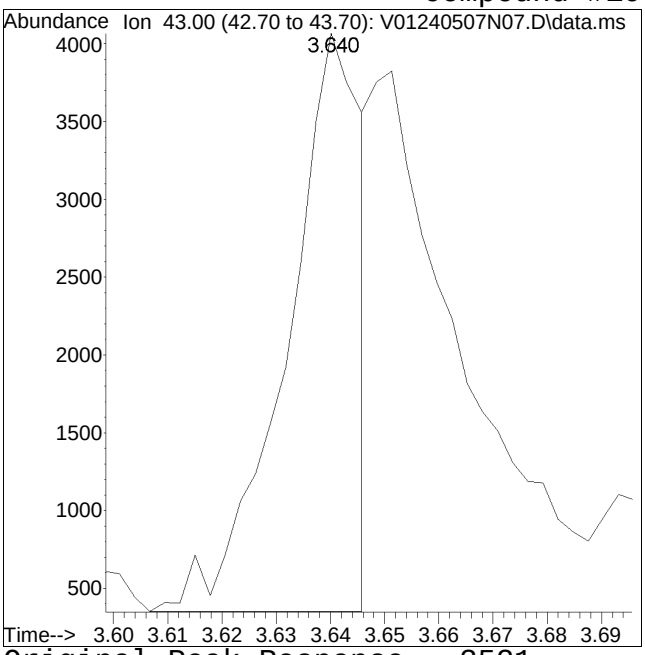
Manual Peak Response = 2376 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

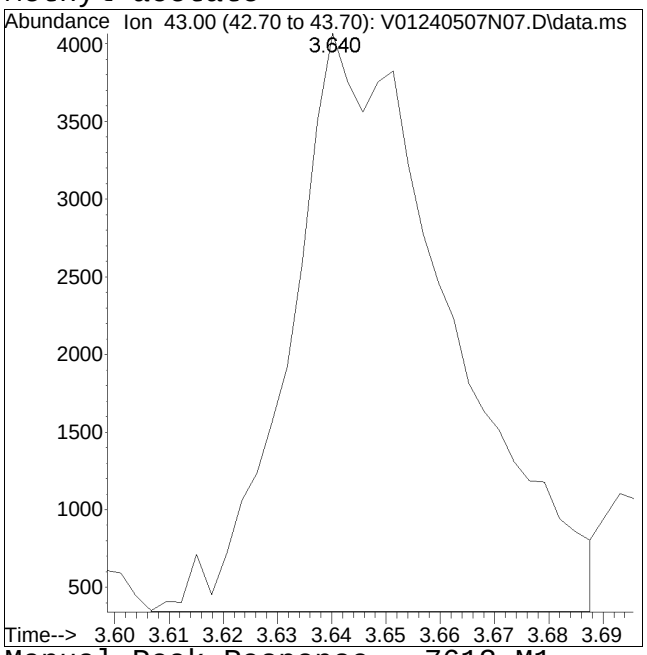
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #19: Methyl acetate



Original Peak Response = 3521



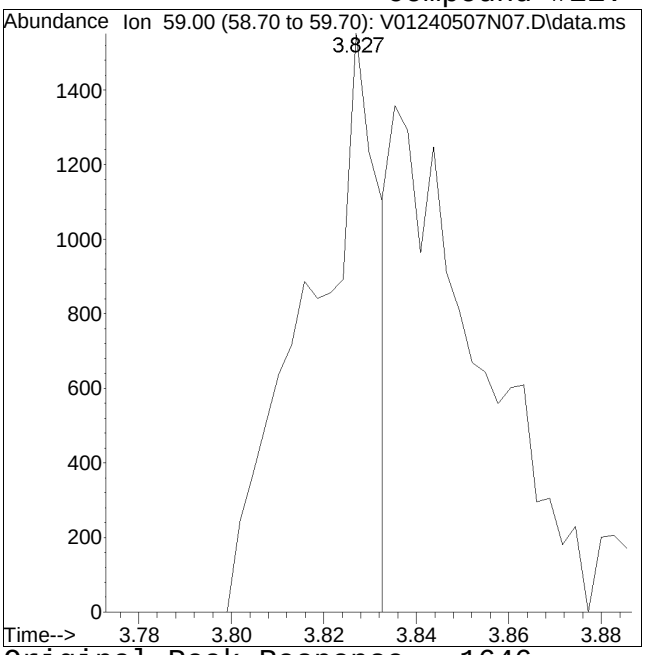
Manual Peak Response = 7613 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

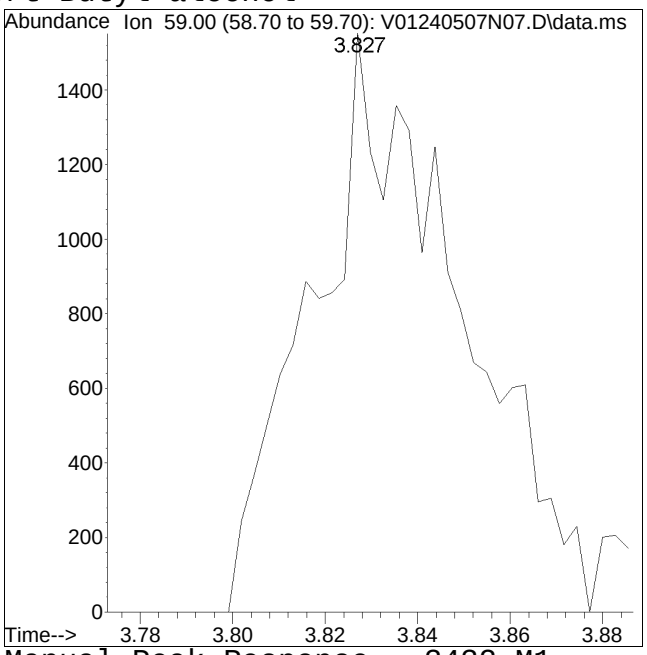
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 1646



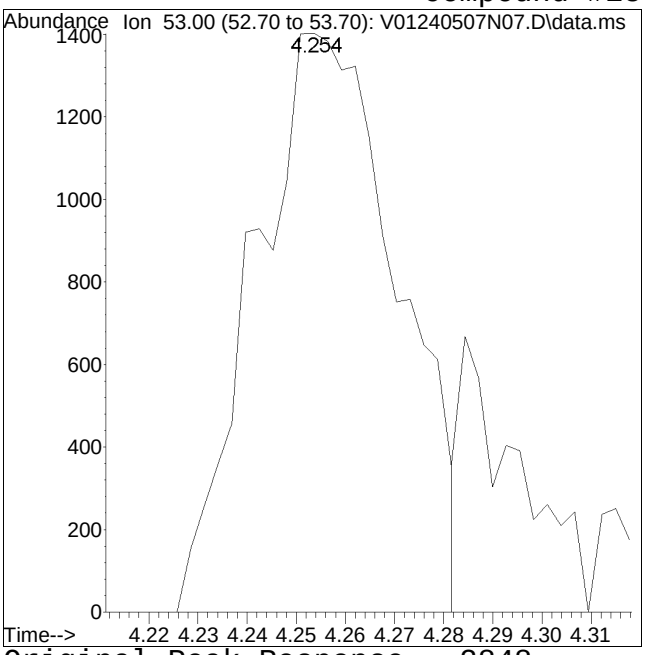
Manual Peak Response = 3432 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

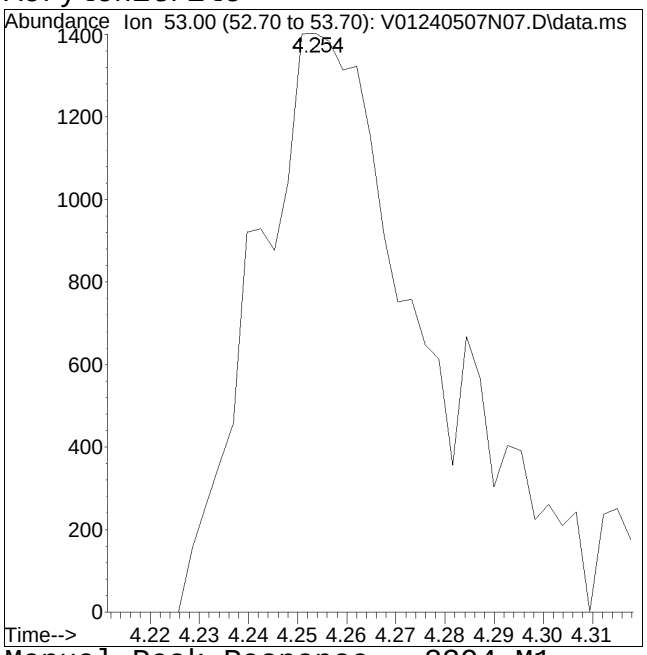
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #25: Acrylonitrile



Original Peak Response = 2848



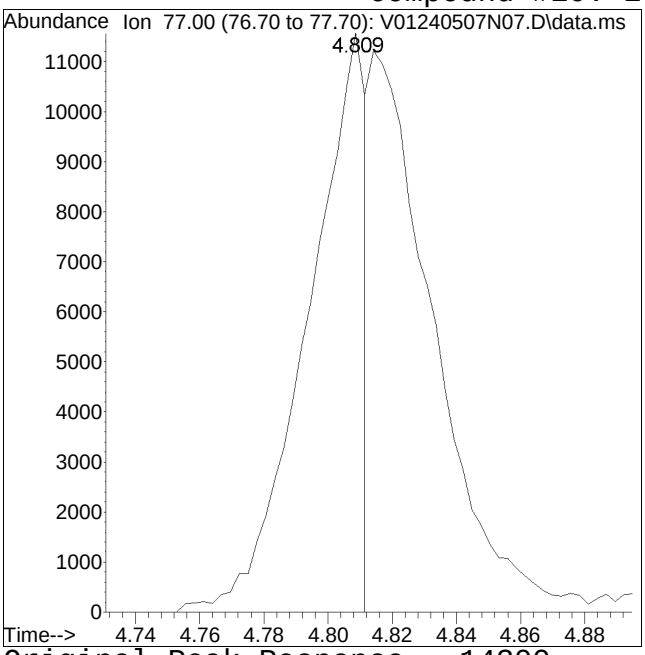
Manual Peak Response = 3394 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

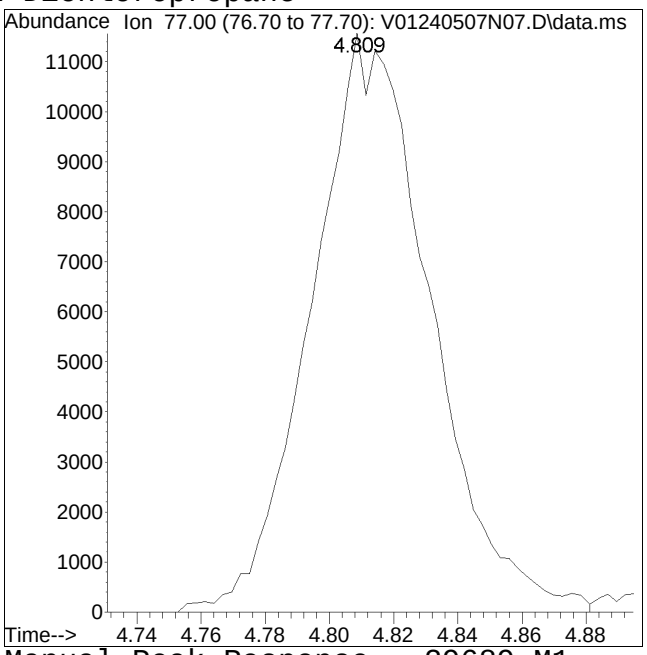
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 14300



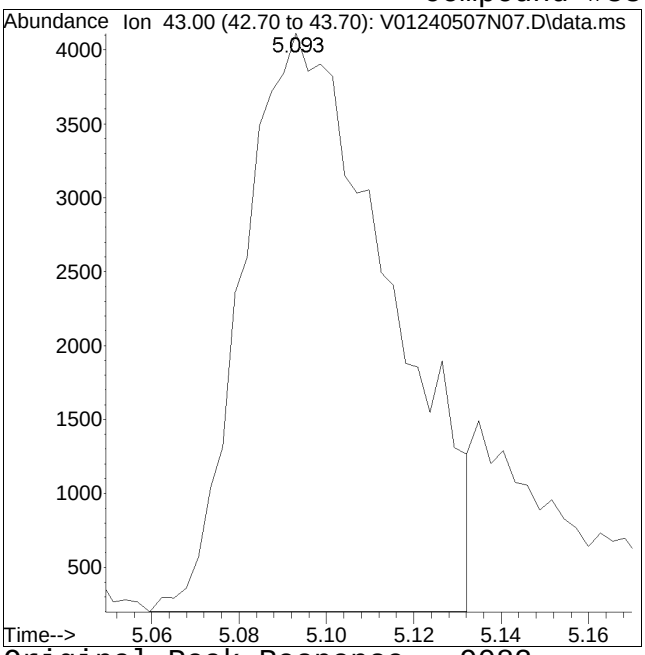
Manual Peak Response = 29689 M1

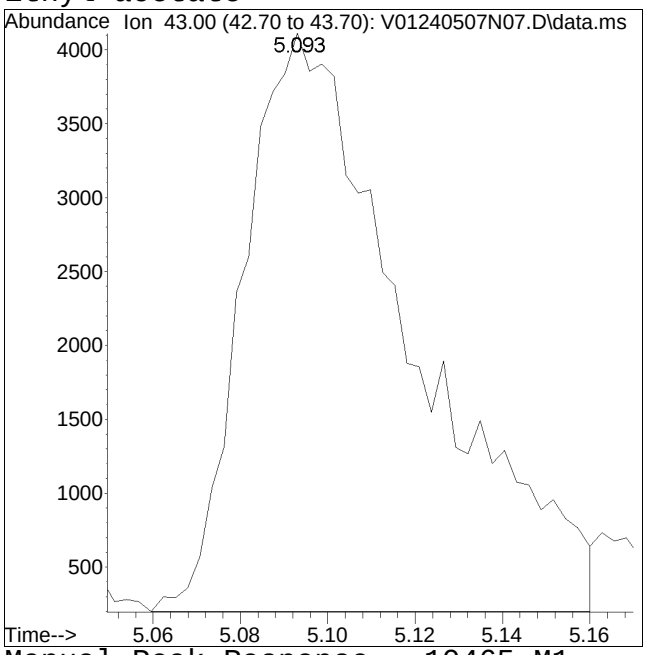
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #33: Ethyl acetate



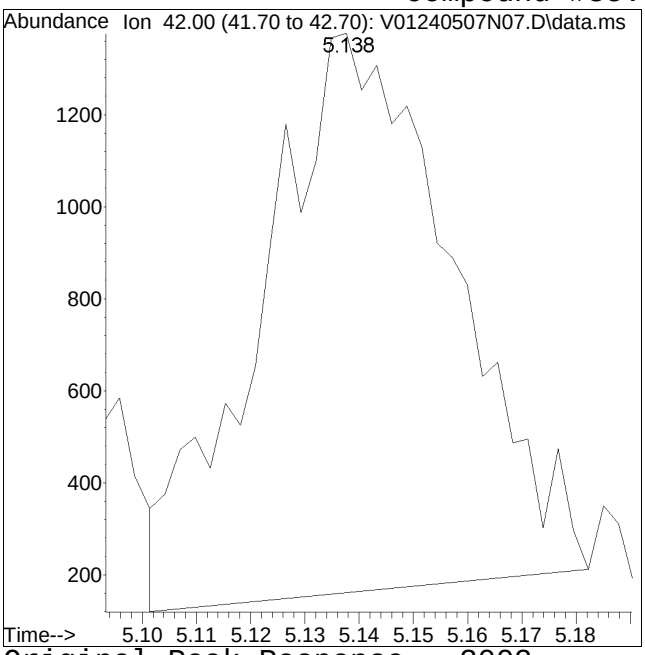


Original Peak Response = 9082 Manual Peak Response = 10465 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

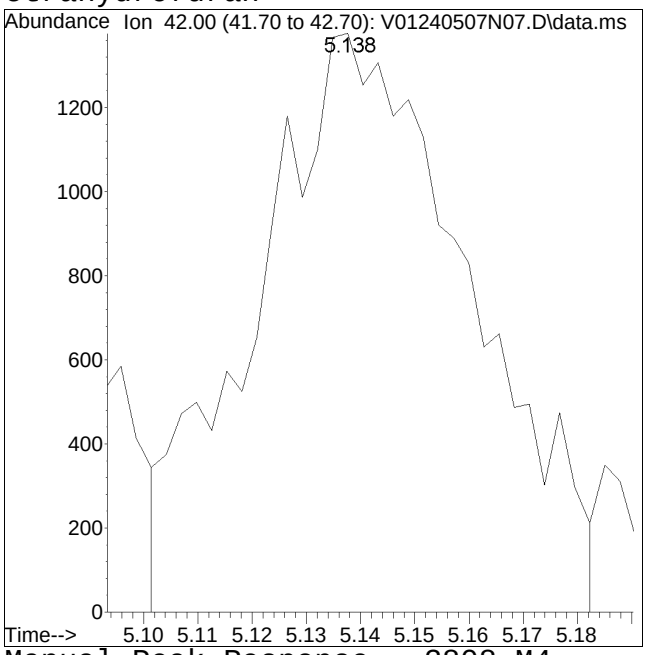
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #35: Tetrahydrofuran



Original Peak Response = 3002



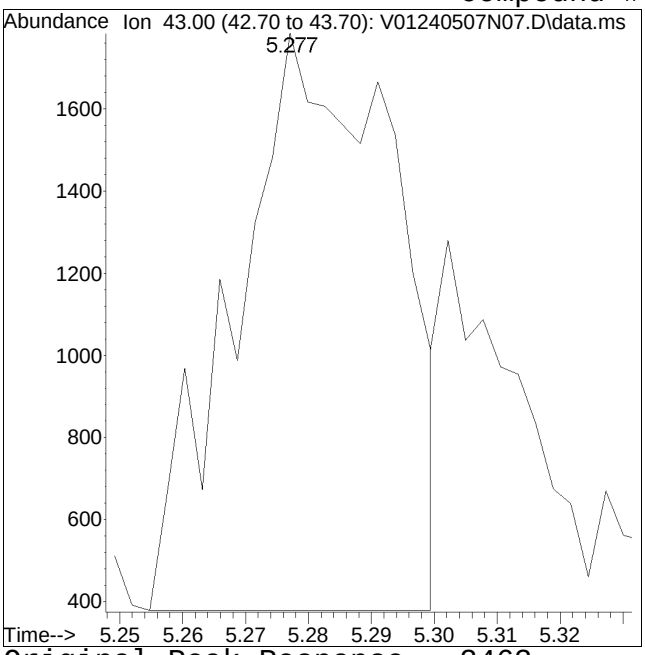
Manual Peak Response = 3808 M4

M4 = Poor automated baseline construction.

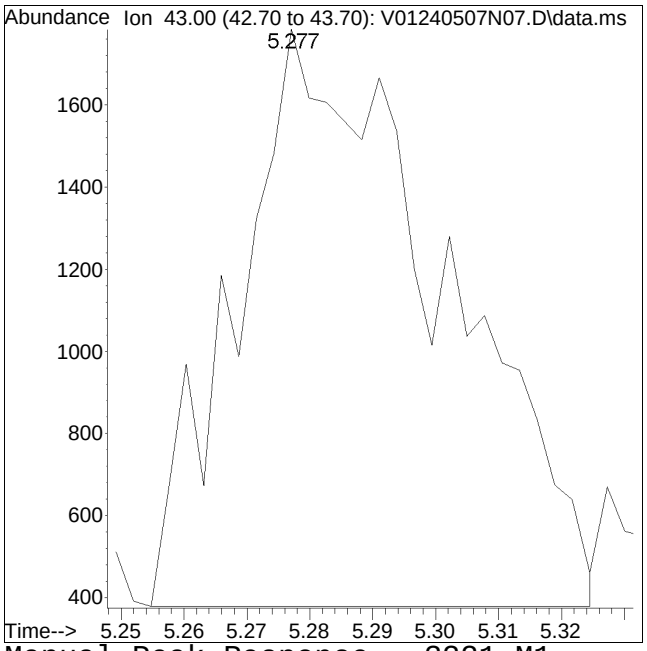
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #39: 2-Butanone



Original Peak Response = 2463



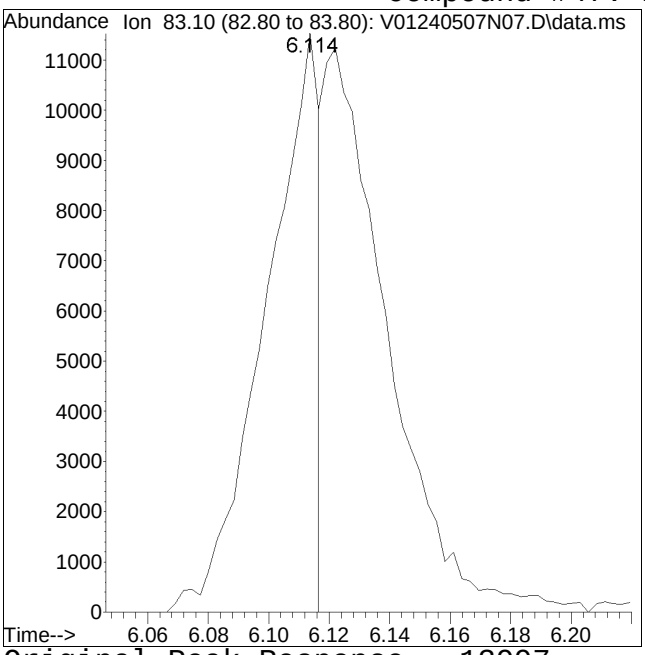
Manual Peak Response = 3221 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

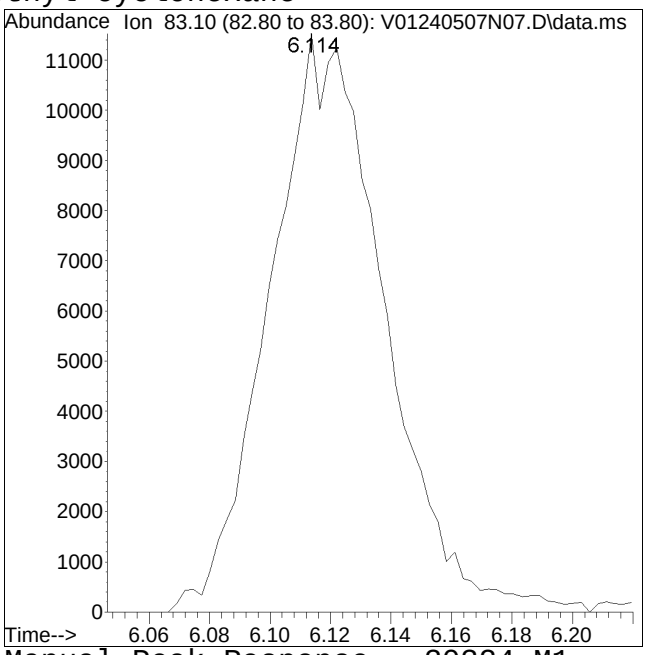
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #47: Methyl cyclohexane



Original Peak Response = 13997



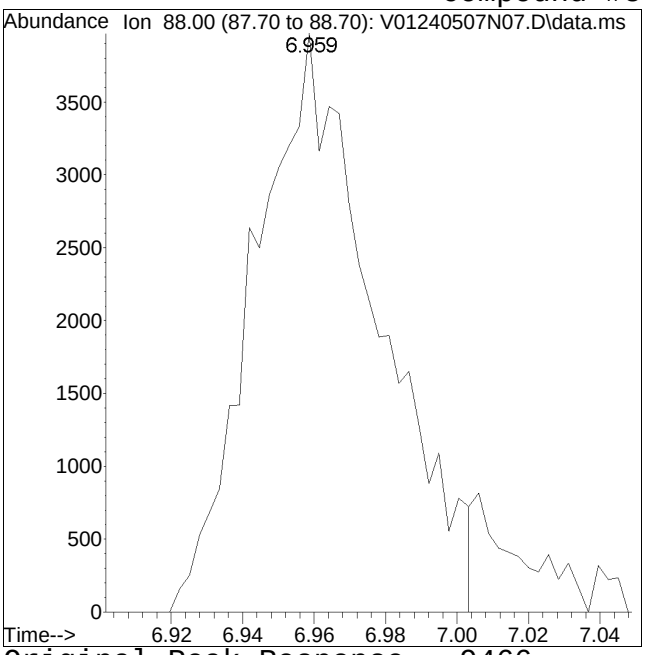
Manual Peak Response = 30324 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

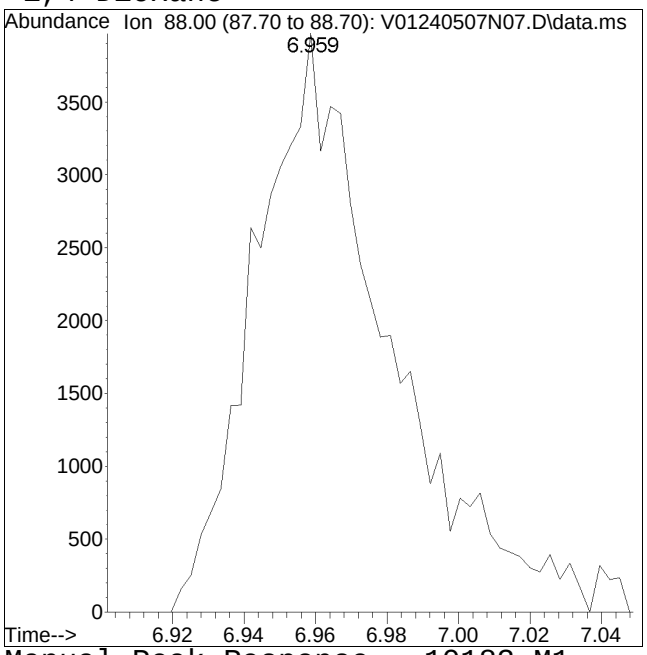
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #57: 1,4-Dioxane



Original Peak Response = 9466



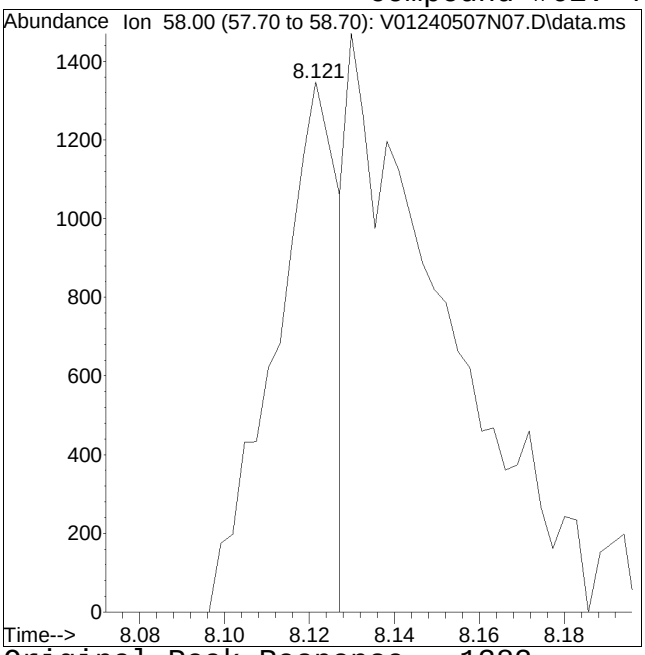
Manual Peak Response = 10183 M1

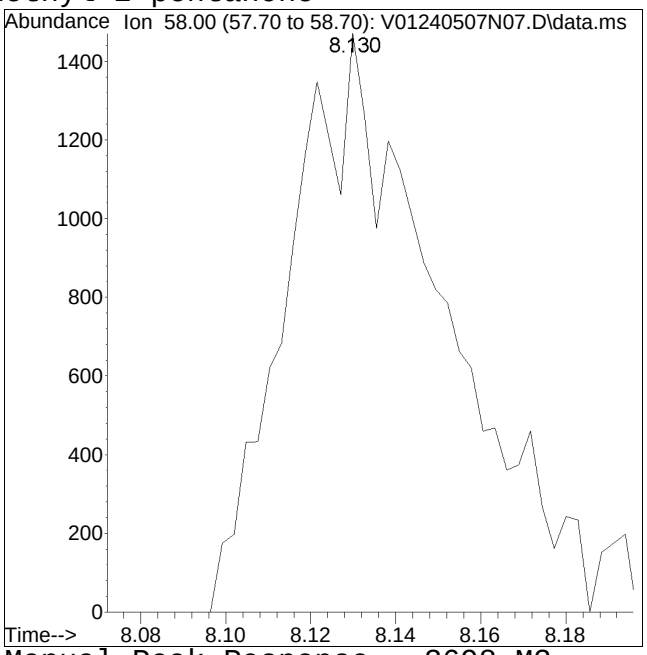
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #62: 4-Methyl-2-pentanone





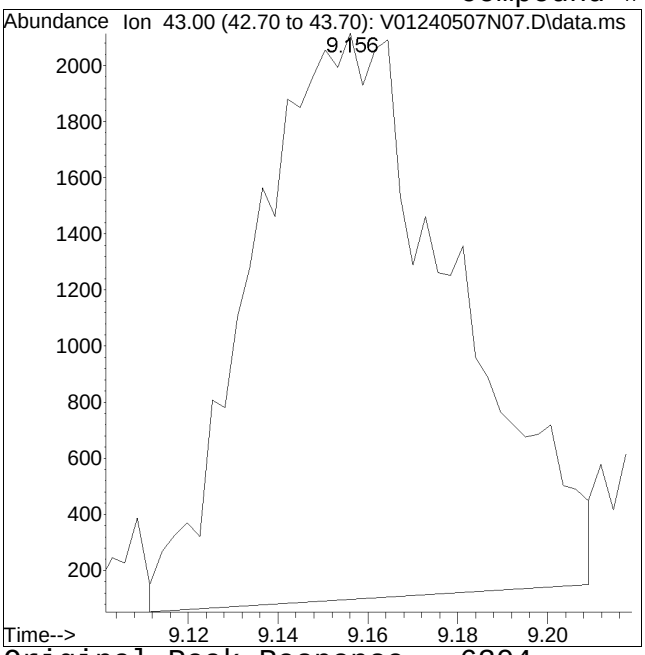
Original Peak Response = 1382 Manual Peak Response = 3698 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

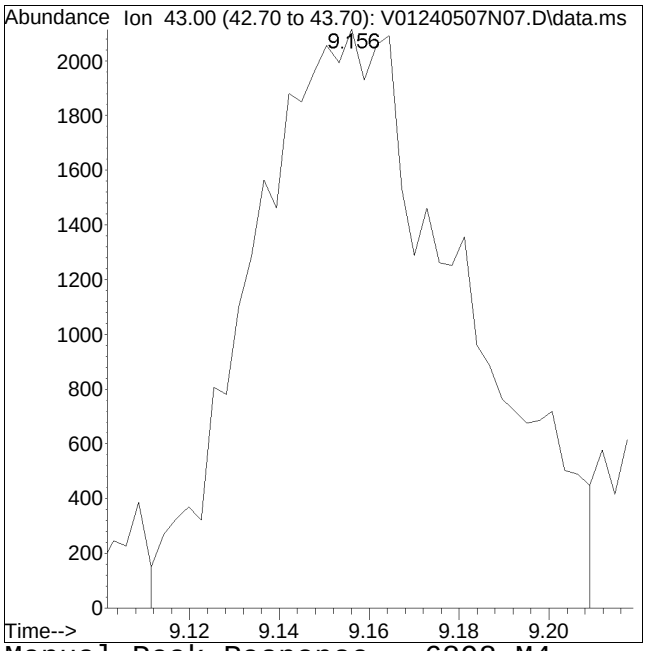
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #72: 2-Hexanone



Original Peak Response = 6304



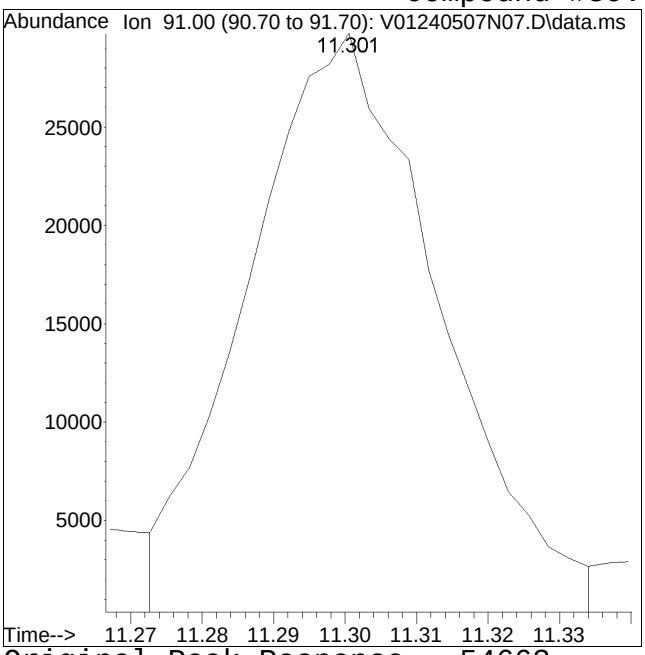
Manual Peak Response = 6898 M4

M4 = Poor automated baseline construction.

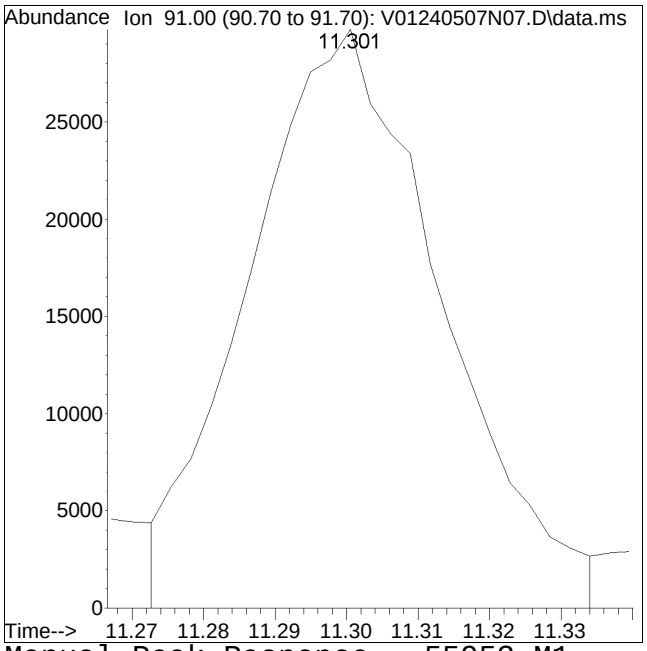
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 54663



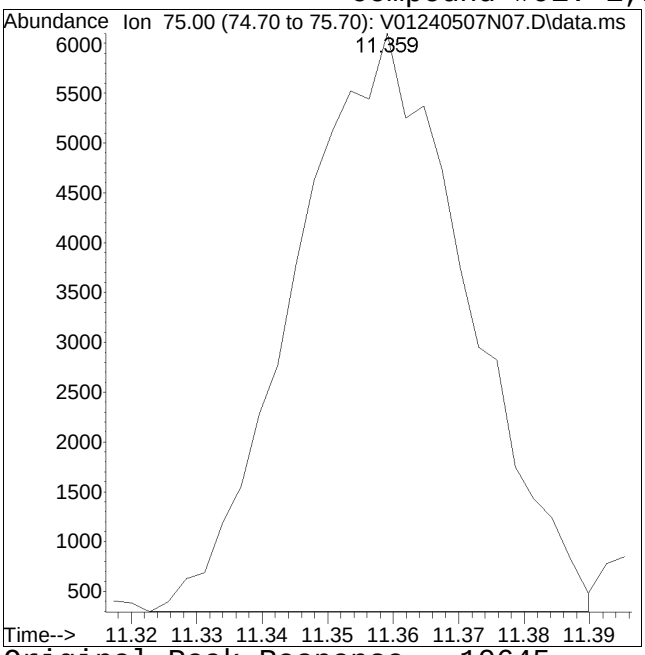
Manual Peak Response = 55953 M1

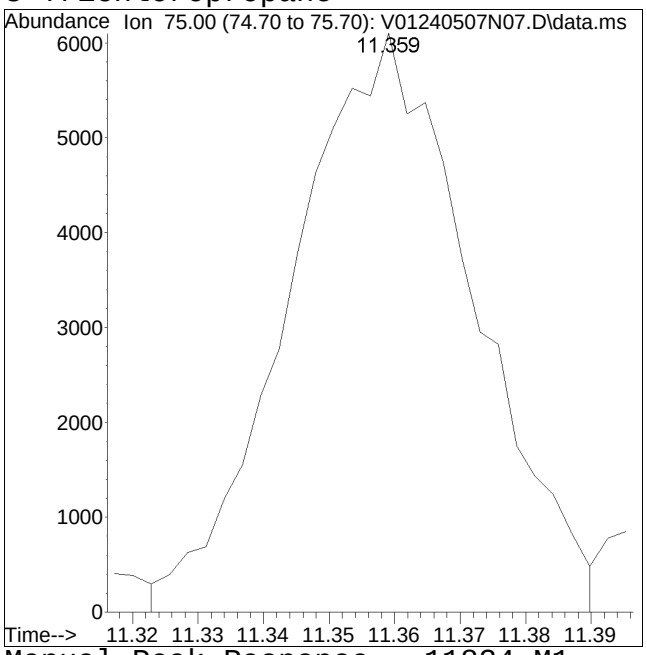
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N07.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 8:39 pm Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 5/8/2024 10:44 am

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 10645 Manual Peak Response = 11834 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N08.D
Acq On : 7 May 2024 9:06 pm
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 08 10:45:00 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	394857	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 100.00%			
59) Chlorobenzene-d5	9.468	117	296713	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.184	152	167376	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.154	113	106984	10.063	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.63%			
43) 1,2-Dichloroethane-d4	5.670	65	119718	9.824	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.24%			
60) Toluene-d8	7.631	98	388104	10.029	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.29%			
83) 4-Bromofluorobenzene	10.974	95	146198	10.083	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.83%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.643	85	123672	10.438	ug/L	100
3) Chloromethane	1.836	50	117625	10.134	ug/L	100
4) Vinyl chloride	1.903	62	95100	10.363	ug/L	99
5) Bromomethane	2.204	94	53368	8.835	ug/L	98
6) Chloroethane	2.315	64	55491	9.944	ug/L	100
7) Trichlorofluoromethane	2.455	101	149798	10.254	ug/L	99
8) Ethyl ether	2.748	74	34639	9.862	ug/L	95
10) 1,1-Dichloroethene	2.929	96	71133	9.580	ug/L	99
11) Carbon disulfide	2.960	76	214926	9.611	ug/L	100
12) Freon-113	2.968	101	79937	10.163	ug/L	87
13) Iodomethane	3.066	142	97836	9.481	ug/L	98
14) Acrolein	3.252	56	10304	9.771	ug/L	85
15) Methylene chloride	3.475	84	91505	9.379	ug/L	100
17) Acetone	3.528	43	20669	5.193	ug/L #	71
18) trans-1,2-Dichloroethene	3.626	96	88964	9.950	ug/L	99
19) Methyl acetate	3.640	43	35336	8.937	ug/L	99
20) Methyl tert-butyl ether	3.729	73	212022	10.011	ug/L	99
21) tert-Butyl alcohol	3.832	59	17168	43.754	ug/L #	67
22) Diisopropyl ether	4.078	45	301763	10.129	ug/L	99
23) 1,1-Dichloroethane	4.201	63	173862	10.190	ug/L	99
24) Halothane	4.251	117	66696	10.070	ug/L	100

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N08.D
Acq On : 7 May 2024 9:06 pm
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 08 10:45:00 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.245	53	17058	9.881	ug/L	#	77
26) Ethyl tert-butyl ether	4.424	59	264671	10.098	ug/L	#	83
27) Vinyl acetate	4.435	43	108661	9.901	ug/L	#	86
28) cis-1,2-Dichloroethene	4.714	96	99759	10.077	ug/L		99
29) 2,2-Dichloropropane	4.811	77	139830	10.161	ug/L		98
30) Bromochloromethane	4.903	128	44797	10.218	ug/L		96
31) Cyclohexane	4.909	56	152670	10.316	ug/L		96
32) Chloroform	4.976	83	164110	9.780	ug/L		99
33) Ethyl acetate	5.085	43	57854	10.009	ug/L		98
34) Carbon tetrachloride	5.110	117	136973	10.209	ug/L		98
35) Tetrahydrofuran	5.135	42	17206M1	10.195	ug/L		
37) 1,1,1-Trichloroethane	5.171	97	153806	10.236	ug/L		99
39) 2-Butanone	5.271	43	21149	9.298	ug/L		97
40) 1,1-Dichloropropene	5.294	75	128221	10.216	ug/L		100
41) Benzene	5.536	78	366267	10.151	ug/L		99
42) tert-Amyl methyl ether	5.648	73	231406	10.155	ug/L		99
44) 1,2-Dichloroethane	5.737	62	118331	10.085	ug/L		98
47) Methyl cyclohexane	6.116	83	150361	10.182	ug/L		99
48) Trichloroethene	6.133	95	105143	9.910	ug/L		99
50) Dibromomethane	6.571	93	51729	9.982	ug/L		96
51) 1,2-Dichloropropane	6.666	63	93445	10.092	ug/L		98
53) 2-Chloroethyl vinyl ether	7.360	63	39980	10.434	ug/L		100
54) Bromodichloromethane	6.741	83	130509	9.921	ug/L		98
57) 1,4-Dioxane	6.956	88	17847	551.636	ug/L		96
58) cis-1,3-Dichloropropene	7.427	75	145643	10.135	ug/L		92
61) Toluene	7.689	92	227030	10.024	ug/L		99
62) 4-Methyl-2-pentanone	8.121	58	19948	10.444	ug/L		90
63) Tetrachloroethene	8.138	166	104301	9.990	ug/L		98
65) trans-1,3-Dichloropropene	8.172	75	124311	10.025	ug/L		92
67) Ethyl methacrylate	8.361	69	81334	10.039	ug/L		97
68) 1,1,2-Trichloroethane	8.358	83	57601	10.006	ug/L		98
69) Chlorodibromomethane	8.570	129	86936	9.699	ug/L		97
70) 1,3-Dichloropropane	8.676	76	117181	10.004	ug/L		99
71) 1,2-Dibromoethane	8.844	107	64539	9.867	ug/L		99
72) 2-Hexanone	9.134	43	34711	8.928	ug/L		99
73) Chlorobenzene	9.491	112	251686	10.098	ug/L		99
74) Ethylbenzene	9.530	91	448786	10.160	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.577	131	92861	9.932	ug/L		98
76) p/m Xylene	9.714	106	340276	20.004	ug/L		99
77) o Xylene	10.257	106	328905	20.214	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N08.D
Acq On : 7 May 2024 9:06 pm
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 08 10:45:00 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.327	104	529868	19.979	ug/L	95
80) Bromoform	10.355	173	51022	9.560	ug/L	99
82) Isopropylbenzene	10.645	105	431921	10.181	ug/L	99
84) Bromobenzene	11.083	156	106915	10.203	ug/L	99
85) n-Propylbenzene	11.127	91	505205	10.225	ug/L	99
86) 1,4-Dichlorobutane	11.144	55	101201	10.022	ug/L	95
87) 1,1,2,2-Tetrachloroethane	11.220	83	67522	9.972	ug/L	97
88) 4-Ethyltoluene	11.253	105	409597	10.099	ug/L	98
89) 2-Chlorotoluene	11.295	91	296100M1	10.164	ug/L	
90) 1,3,5-Trimethylbenzene	11.351	105	350291	9.982	ug/L	97
91) 1,2,3-Trichloropropane	11.356	75	59594M4	9.938	ug/L	
92) trans-1,4-Dichloro-2-b...	11.412	53	20450M4	10.175	ug/L	
93) 4-Chlorotoluene	11.482	91	302425	10.118	ug/L	97
94) tert-Butylbenzene	11.694	119	293645	9.996	ug/L	97
97) 1,2,4-Trimethylbenzene	11.772	105	346523	10.096	ug/L	97
98) sec-Butylbenzene	11.886	105	420563	9.995	ug/L	98
99) p-Isopropyltoluene	12.039	119	359540	9.975	ug/L	98
100) 1,3-Dichlorobenzene	12.109	146	190465	9.924	ug/L	99
101) 1,4-Dichlorobenzene	12.201	146	192380	9.837	ug/L	99
102) p-Diethylbenzene	12.413	119	202520	9.989	ug/L	98
103) n-Butylbenzene	12.472	91	295645	9.944	ug/L	98
104) 1,2-Dichlorobenzene	12.625	146	173745	10.061	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.208	119	290945	9.820	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.406	155	10056	9.830	ug/L	98
107) 1,3,5-Trichlorobenzene	13.436	180	119854	9.801	ug/L	98
108) Hexachlorobutadiene	14.011	225	46090	9.683	ug/L	98
109) 1,2,4-Trichlorobenzene	14.036	180	98933	9.693	ug/L	98
110) Naphthalene	14.329	128	178908	9.984	ug/L	100
111) 1,2,3-Trichlorobenzene	14.499	180	77717	9.779	ug/L	98

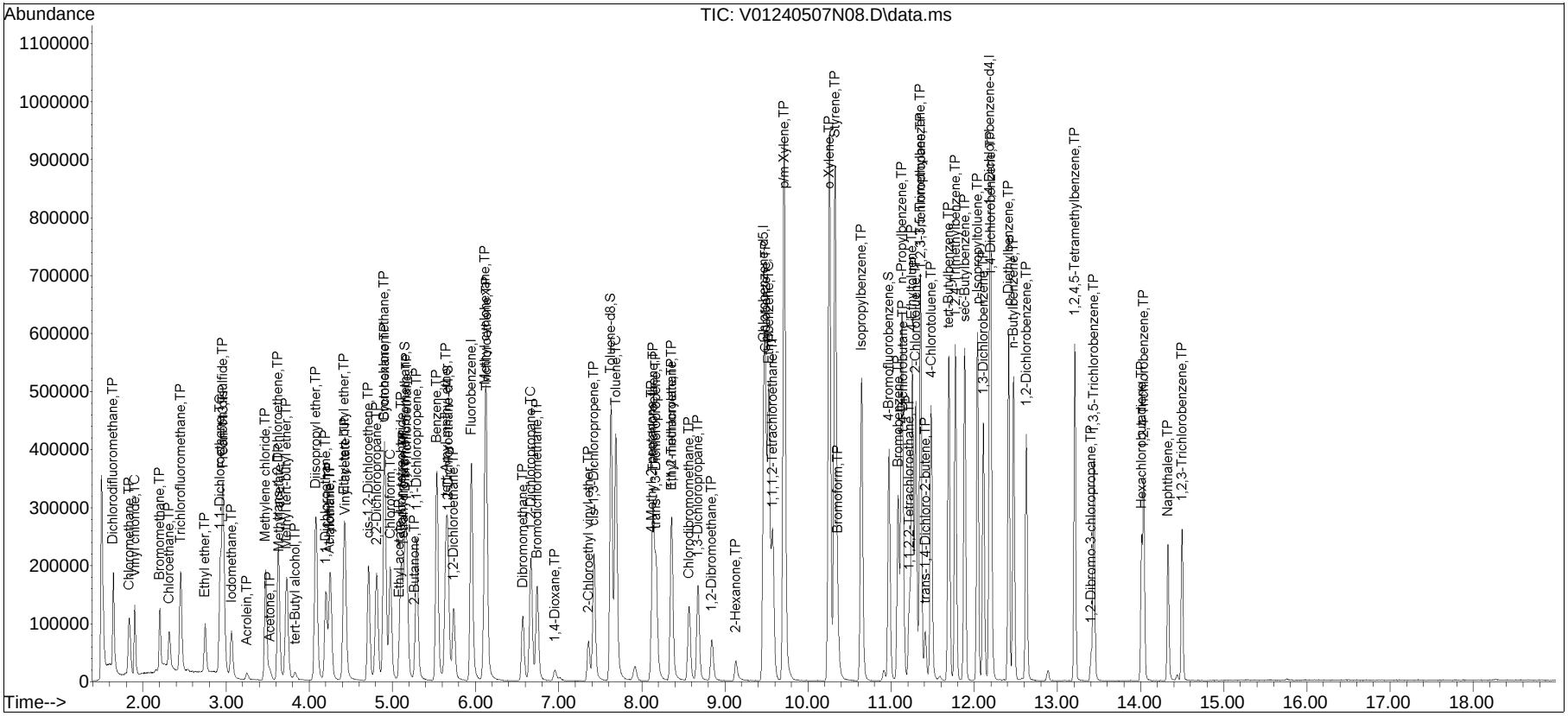
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N08.D
Acq On : 7 May 2024 9:06 pm
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 08 10:45:00 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

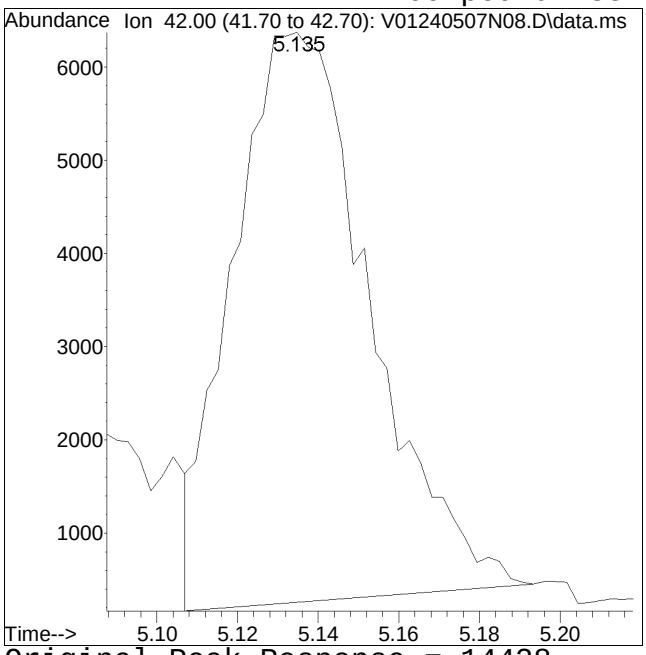
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•

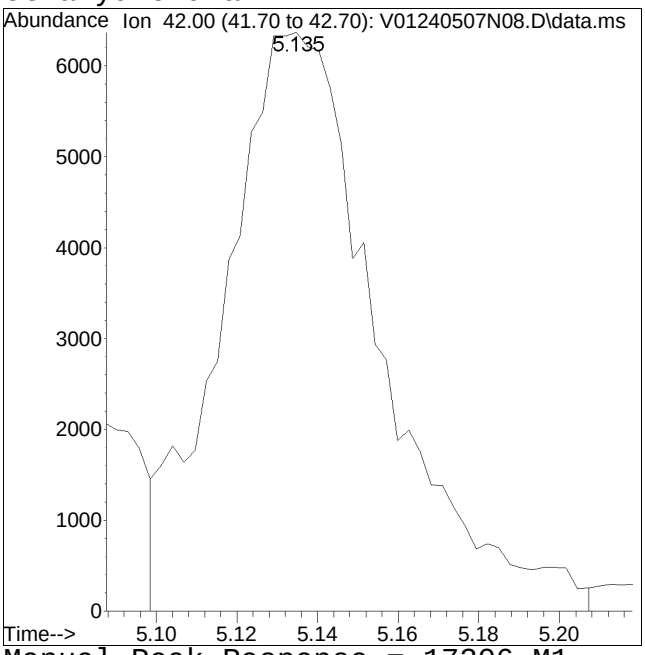


Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N08.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:06 pm Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 5/8/2024 10:44 am

Compound #35: Tetrahydrofuran



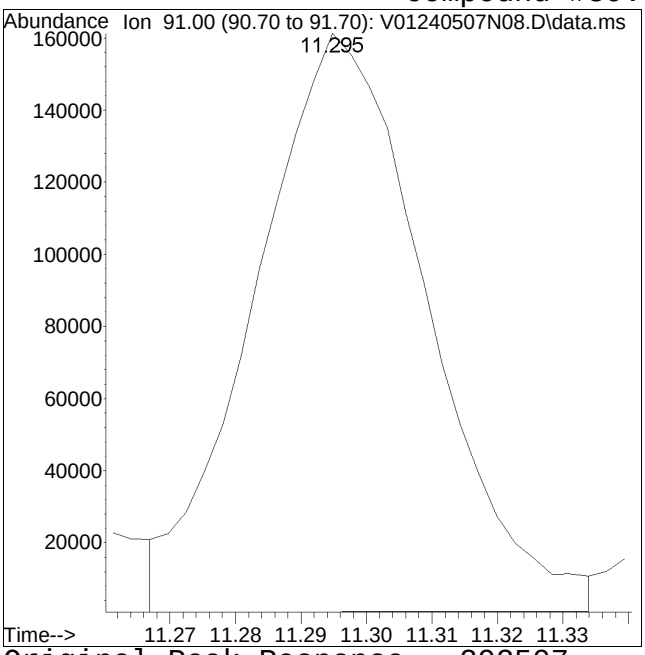


Original Peak Response = 14428 Manual Peak Response = 17206 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

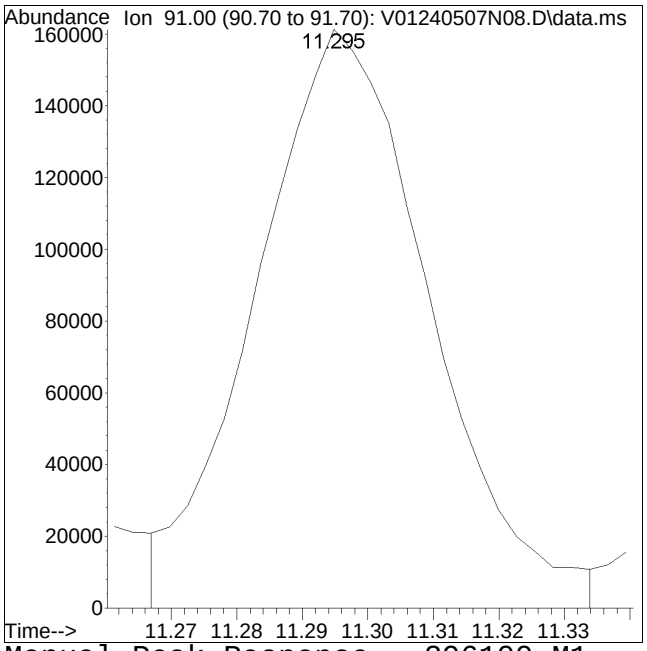
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N08.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:06 pm Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 5/8/2024 10:44 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 292507



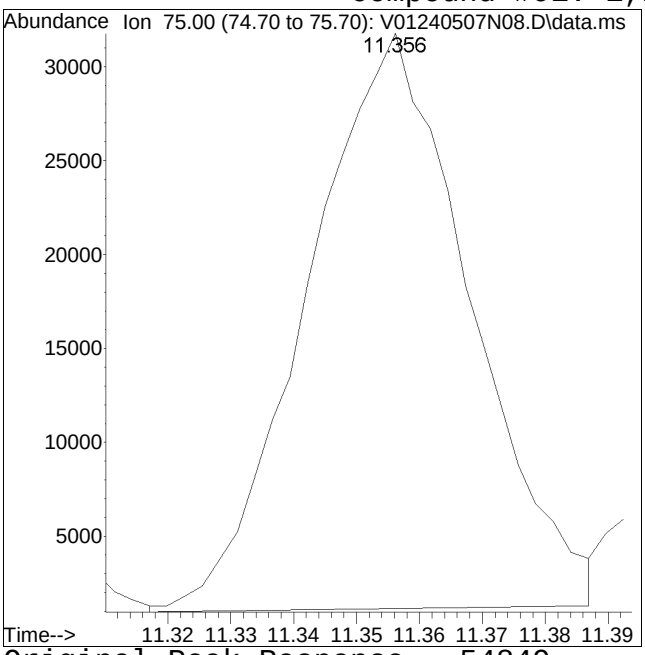
Manual Peak Response = 296100 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

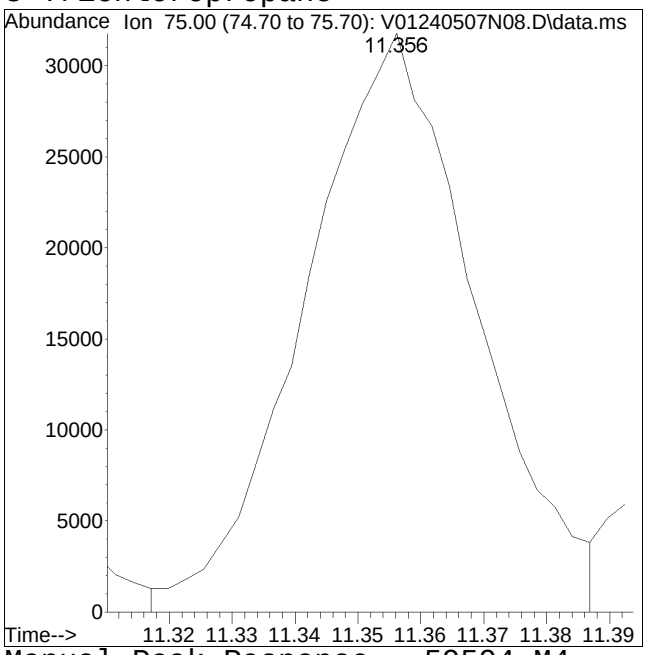
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N08.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:06 pm Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 5/8/2024 10:44 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 54849



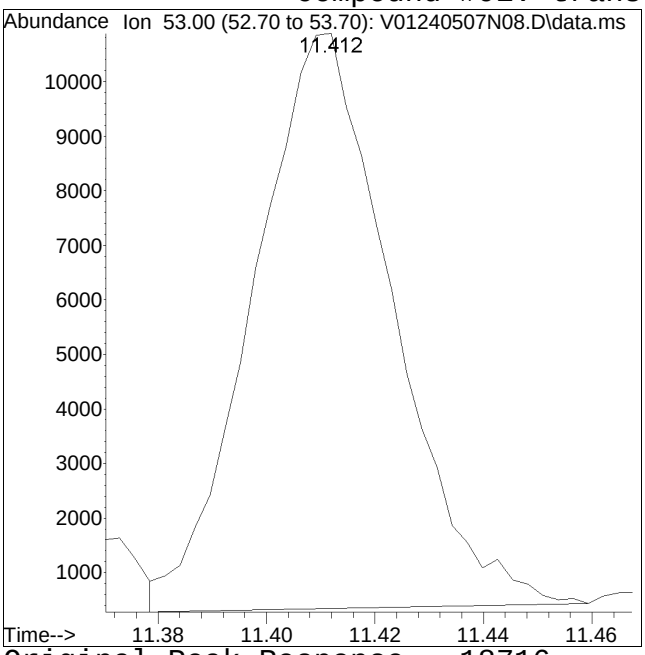
Manual Peak Response = 59594 M4

M4 = Poor automated baseline construction.

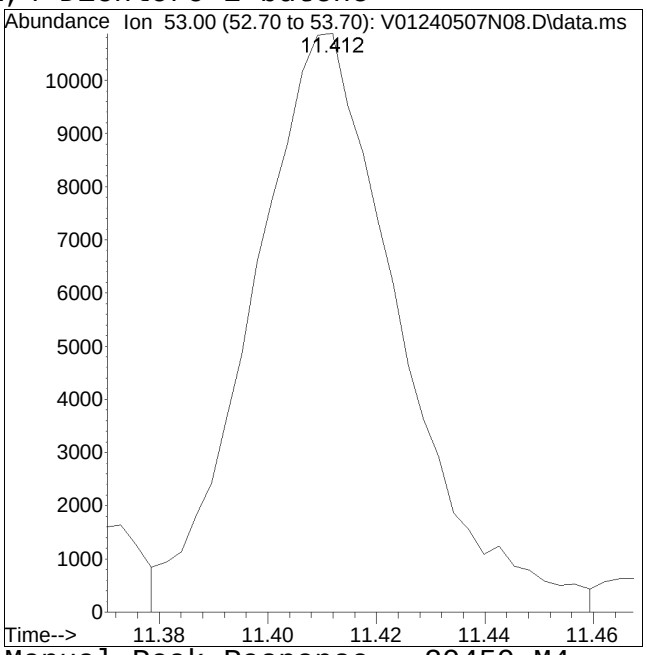
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N08.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:06 pm Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 5/8/2024 10:44 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 18716



Manual Peak Response = 20450 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N09.D
Acq On : 7 May 2024 9:32 pm
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1918530,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 08 10:45:07 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	373793	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 94.67%			
59) Chlorobenzene-d5	9.468	117	280026	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 94.38%			
79) 1,4-Dichlorobenzene-d4	12.187	152	162423	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 97.04%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.152	113	101878	10.123	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.23%			
43) 1,2-Dichloroethane-d4	5.670	65	114934	9.963	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.63%			
60) Toluene-d8	7.631	98	367377	10.059	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.59%			
83) 4-Bromofluorobenzene	10.974	95	140715	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.646	85	304435	27.142	ug/L	99
3) Chloromethane	1.839	50	331238	30.146	ug/L	99
4) Vinyl chloride	1.903	62	255905	29.458	ug/L	98
5) Bromomethane	2.204	94	157690	27.576	ug/L	97
6) Chloroethane	2.315	64	156760	29.673	ug/L	99
7) Trichlorofluoromethane	2.455	101	374534	27.082	ug/L	98
8) Ethyl ether	2.751	74	101626	30.563	ug/L	98
10) 1,1-Dichloroethene	2.932	96	196434	27.947	ug/L	98
11) Carbon disulfide	2.962	76	611349	28.879	ug/L	100
12) Freon-113	2.968	101	196345	26.368	ug/L #	68
13) Iodomethane	3.066	142	341128	34.922	ug/L	98
14) Acrolein	3.250	56	29781	29.832	ug/L	93
15) Methylene chloride	3.476	84	268175	29.038	ug/L	100
17) Acetone	3.523	43	50364	13.366	ug/L	95
18) trans-1,2-Dichloroethene	3.629	96	257658	30.441	ug/L	99
19) Methyl acetate	3.640	43	115476	30.851	ug/L	96
20) Methyl tert-butyl ether	3.729	73	631153	31.479	ug/L	98
21) tert-Butyl alcohol	3.830	59	61433	165.391	ug/L	96
22) Diisopropyl ether	4.081	45	886528	31.435	ug/L	99
23) 1,1-Dichloroethane	4.201	63	509967	31.572	ug/L	100
24) Halothane	4.254	117	186941	29.815	ug/L	100

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N09.D
Acq On : 7 May 2024 9:32 pm
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1918530,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 08 10:45:07 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.254	53	50769	31.066	ug/L		95
26) Ethyl tert-butyl ether	4.424	59	785130	31.643	ug/L	#	84
27) Vinyl acetate	4.429	43	338501	32.583	ug/L		96
28) cis-1,2-Dichloroethene	4.714	96	296285	31.616	ug/L		98
29) 2,2-Dichloropropane	4.809	77	392219	30.108	ug/L		98
30) Bromochloromethane	4.901	128	133505	32.167	ug/L		95
31) Cyclohexane	4.906	56	378721	27.032	ug/L		95
32) Chloroform	4.976	83	507209	31.929	ug/L		99
33) Ethyl acetate	5.082	43	179651	32.832	ug/L		98
34) Carbon tetrachloride	5.107	117	373989	29.446	ug/L		99
35) Tetrahydrofuran	5.129	42	48116M1	30.117	ug/L		
37) 1,1,1-Trichloroethane	5.171	97	423896	29.801	ug/L		99
39) 2-Butanone	5.263	43	70759	32.862	ug/L	#	59
40) 1,1-Dichloropropene	5.294	75	353774	29.774	ug/L		99
41) Benzene	5.534	78	1087420	31.837	ug/L		99
42) tert-Amyl methyl ether	5.648	73	686104	31.805	ug/L		98
44) 1,2-Dichloroethane	5.734	62	352834	31.765	ug/L		98
47) Methyl cyclohexane	6.119	83	380981	27.253	ug/L		98
48) Trichloroethene	6.130	95	310093	30.875	ug/L		99
50) Dibromomethane	6.568	93	155474	31.692	ug/L		95
51) 1,2-Dichloropropane	6.669	63	279108	31.841	ug/L		98
53) 2-Chloroethyl vinyl ether	7.355	63	119446	32.930	ug/L		98
54) Bromodichloromethane	6.738	83	393609	31.607	ug/L		98
57) 1,4-Dioxane	6.950	88	21948	716.624	ug/L	#	86
58) cis-1,3-Dichloropropene	7.424	75	441143	32.430	ug/L		94
61) Toluene	7.686	92	671471	31.413	ug/L		100
62) 4-Methyl-2-pentanone	8.119	58	61007	33.845	ug/L		90
63) Tetrachloroethene	8.138	166	294158	29.853	ug/L		99
65) trans-1,3-Dichloropropene	8.169	75	381193	32.573	ug/L		93
67) Ethyl methacrylate	8.358	69	256585	33.557	ug/L		96
68) 1,1,2-Trichloroethane	8.358	83	174049	32.036	ug/L		98
69) Chlorodibromomethane	8.568	129	270074	31.926	ug/L		98
70) 1,3-Dichloropropane	8.674	76	357567	32.346	ug/L		99
71) 1,2-Dibromoethane	8.841	107	198820	32.208	ug/L		98
72) 2-Hexanone	9.125	43	116780	31.826	ug/L		96
73) Chlorobenzene	9.488	112	741693	31.531	ug/L		99
74) Ethylbenzene	9.527	91	1323149	31.740	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.574	131	281208	31.870	ug/L		99
76) p/m Xylene	9.711	106	1013545	63.136	ug/L		100
77) o Xylene	10.255	106	978176	63.698	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N09.D
Acq On : 7 May 2024 9:32 pm
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1918530,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 08 10:45:07 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.324	104	1603026	64.044	ug/L	95
80) Bromoform	10.355	173	163481	31.566	ug/L	99
82) Isopropylbenzene	10.642	105	1271358	30.883	ug/L	98
84) Bromobenzene	11.083	156	321234	31.591	ug/L	100
85) n-Propylbenzene	11.128	91	1487514	31.025	ug/L	99
86) 1,4-Dichlorobutane	11.144	55	303258	30.948	ug/L	94
87) 1,1,2,2-Tetrachloroethane	11.217	83	204748	31.160	ug/L	100
88) 4-Ethyltoluene	11.253	105	1236518	31.419	ug/L	99
89) 2-Chlorotoluene	11.292	91	892132M1	31.557	ug/L	
90) 1,3,5-Trimethylbenzene	11.351	105	1061977	31.186	ug/L	97
91) 1,2,3-Trichloropropane	11.356	75	182801M4	31.415	ug/L	
92) trans-1,4-Dichloro-2-b...	11.409	53	64507	33.076	ug/L	89
93) 4-Chlorotoluene	11.479	91	919421	31.699	ug/L	97
94) tert-Butylbenzene	11.691	119	868239	30.458	ug/L	97
97) 1,2,4-Trimethylbenzene	11.772	105	1054760	31.667	ug/L	97
98) sec-Butylbenzene	11.883	105	1229374	30.108	ug/L	98
99) p-Isopropyltoluene	12.039	119	1072400	30.661	ug/L	99
100) 1,3-Dichlorobenzene	12.109	146	589726	31.665	ug/L	99
101) 1,4-Dichlorobenzene	12.201	146	590986	31.140	ug/L	99
102) p-Diethylbenzene	12.413	119	613010	31.157	ug/L	98
103) n-Butylbenzene	12.472	91	880530	30.520	ug/L	99
104) 1,2-Dichlorobenzene	12.625	146	532097	31.752	ug/L	100
105) 1,2,4,5-Tetramethylben...	13.208	119	912898	31.752	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.403	155	32420	32.657	ug/L	96
107) 1,3,5-Trichlorobenzene	13.437	180	378075	31.859	ug/L	98
108) Hexachlorobutadiene	14.011	225	136854	29.629	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	319205	32.229	ug/L	99
110) Naphthalene	14.329	128	570256	32.793	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	246693	31.986	ug/L	97

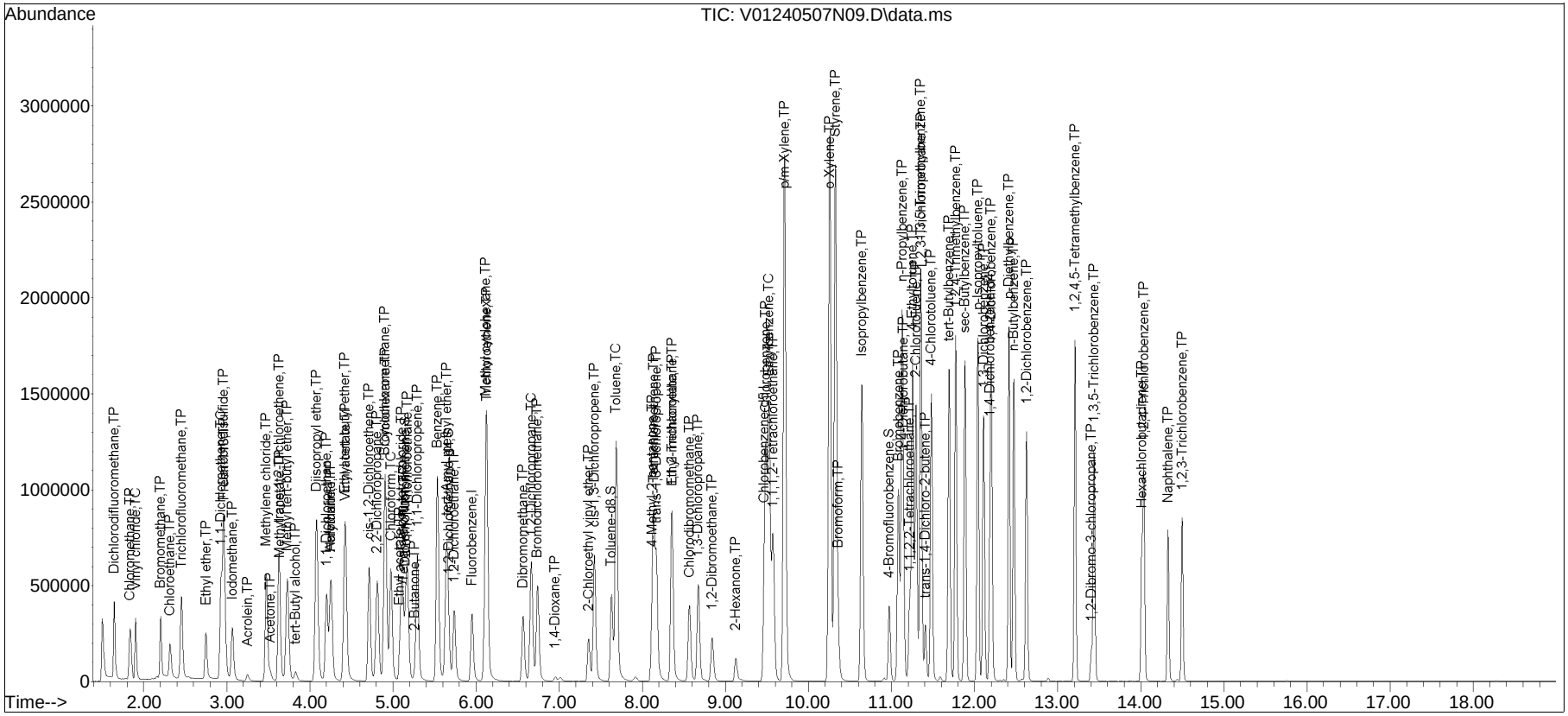
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N09.D
Acq On : 7 May 2024 9:32 pm
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG1918530,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 08 10:45:07 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

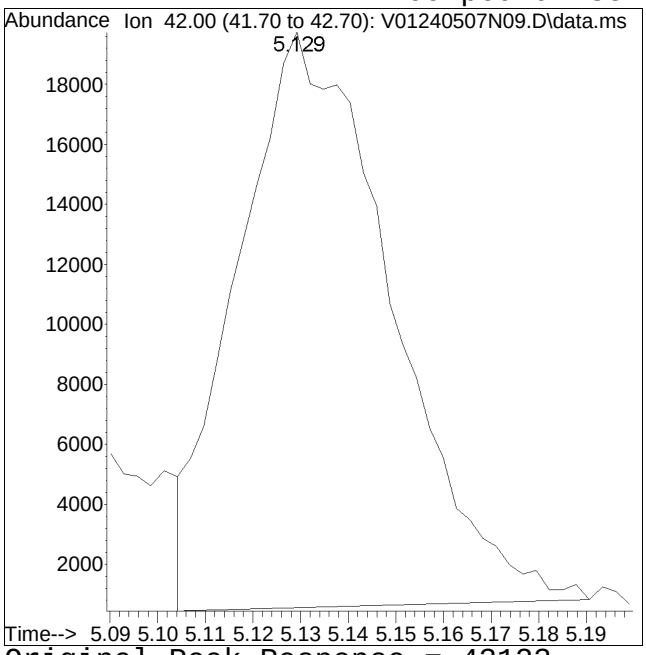
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•



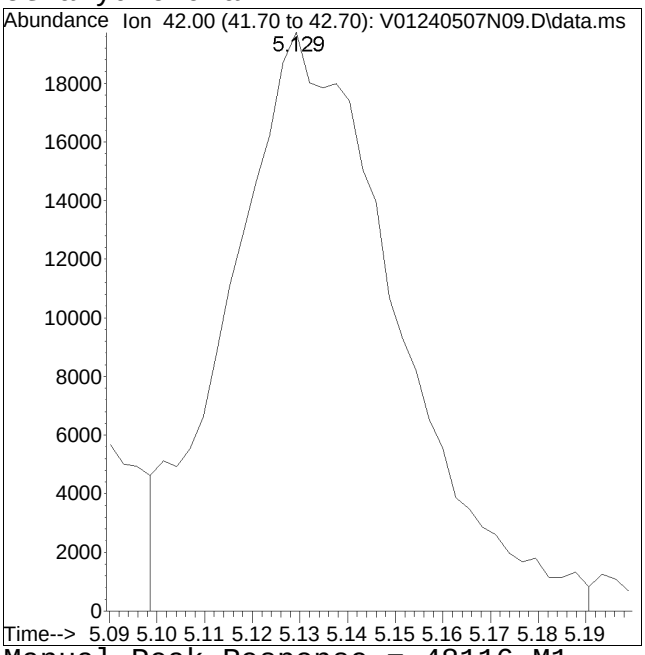
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N09.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:32 pm Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 5/8/2024 10:45 am

Compound #35: Tetrahydrofuran



Original Peak Response = 43123



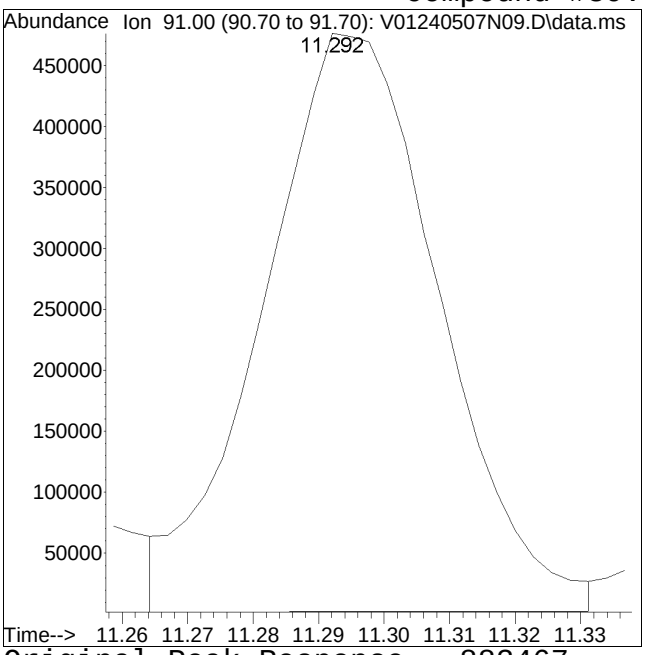
Manual Peak Response = 48116 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

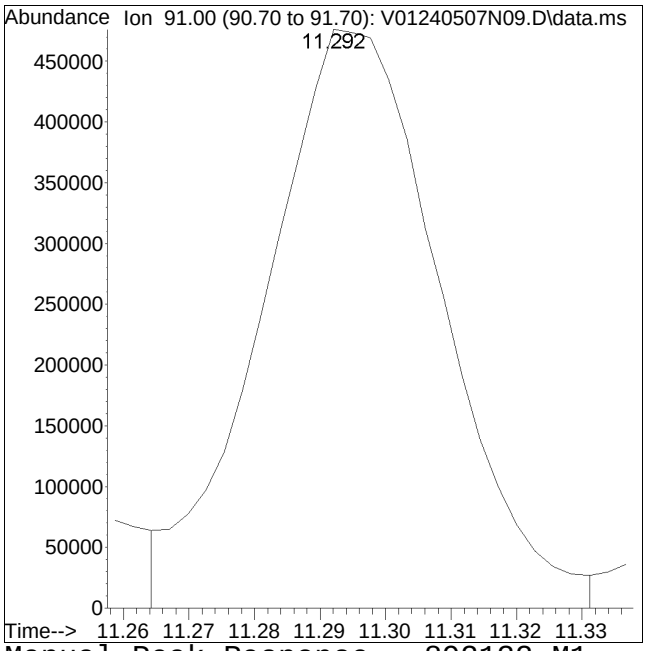
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N09.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:32 pm Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 5/8/2024 10:45 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 883467



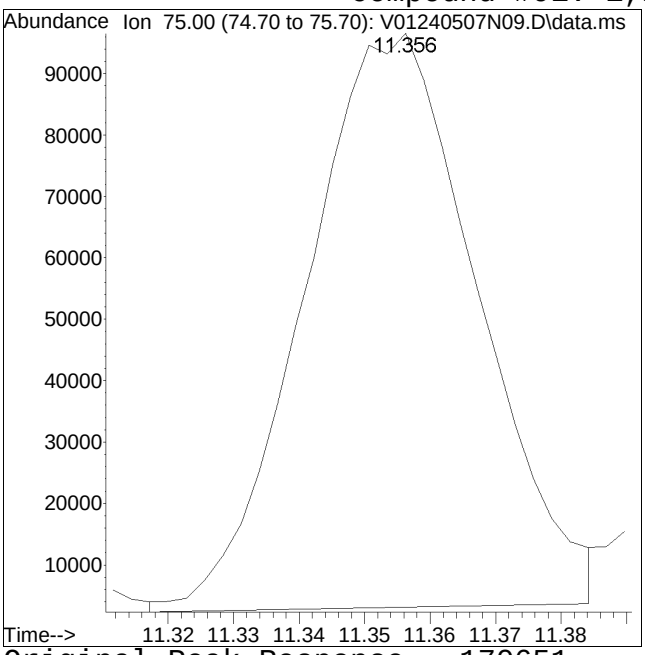
Manual Peak Response = 892132 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

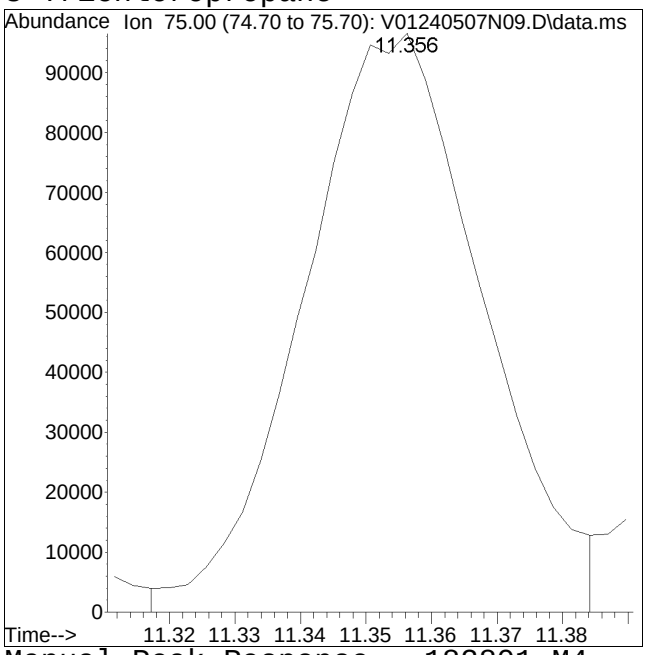
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N09.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:32 pm Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 5/8/2024 10:45 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 170651



Manual Peak Response = 182801 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N10.D
Acq On : 7 May 2024 9:58 pm
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1918530,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 08 10:45:14 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.949	96	380558	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 96.38%			
59) Chlorobenzene-d5	9.471	117	289387	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 97.53%			
79) 1,4-Dichlorobenzene-d4	12.185	152	171833	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 102.66%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.152	113	103459	10.097	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.97%			
43) 1,2-Dichloroethane-d4	5.670	65	117906	10.038	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.38%			
60) Toluene-d8	7.631	98	372853	9.879	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.79%			
83) 4-Bromofluorobenzene	10.974	95	143345	9.629	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.29%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.643	85	1011580	88.585	ug/L	99
3) Chloromethane	1.836	50	882470	78.886	ug/L	99
4) Vinyl chloride	1.903	62	762891	86.259	ug/L	98
5) Bromomethane	2.204	94	466507	80.130	ug/L	97
6) Chloroethane	2.316	64	439063	81.633	ug/L	100
7) Trichlorofluoromethane	2.455	101	1249673	88.757	ug/L	98
8) Ethyl ether	2.748	74	273823	80.886	ug/L	98
10) 1,1-Dichloroethene	2.929	96	599820	83.821	ug/L	97
11) Carbon disulfide	2.960	76	1823909	84.628	ug/L	99
12) Freon-113	2.968	101	685249	90.390	ug/L	88
13) Iodomethane	3.066	142	968467	97.381	ug/L	97
14) Acrolein	3.247	56	80536	79.239	ug/L	97
15) Methylene chloride	3.476	84	719829	76.556	ug/L	100
17) Acetone	3.523	43	127974	33.359	ug/L	95
18) trans-1,2-Dichloroethene	3.629	96	718629	83.394	ug/L	99
19) Methyl acetate	3.637	43	314551	82.544	ug/L	95
20) Methyl tert-butyl ether	3.727	73	1696259	83.098	ug/L	99
21) tert-Butyl alcohol	3.827	59	165749	438.300	ug/L	98
22) Diisopropyl ether	4.078	45	2374190	82.690	ug/L	99
23) 1,1-Dichloroethane	4.201	63	1378472	83.824	ug/L	99
24) Halothane	4.251	117	557477	87.332	ug/L	99

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N10.D
Acq On : 7 May 2024 9:58 pm
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1918530,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 08 10:45:14 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.245	53	138283	83.112	ug/L		100
26) Ethyl tert-butyl ether	4.421	59	2098392	83.069	ug/L	#	84
27) Vinyl acetate	4.429	43	913231	86.342	ug/L		96
28) cis-1,2-Dichloroethene	4.714	96	790527	82.857	ug/L		99
29) 2,2-Dichloropropane	4.811	77	1120823	84.508	ug/L		98
30) Bromochloromethane	4.903	128	347129	82.152	ug/L		94
31) Cyclohexane	4.909	56	1271369	89.133	ug/L		96
32) Chloroform	4.976	83	1365740	84.446	ug/L		99
33) Ethyl acetate	5.079	43	483923	86.867	ug/L		98
34) Carbon tetrachloride	5.107	117	1155725	89.378	ug/L		98
35) Tetrahydrofuran	5.126	42	128428M4	78.957	ug/L		
37) 1,1,1-Trichloroethane	5.171	97	1246384	86.067	ug/L		99
39) 2-Butanone	5.260	43	194824	88.872	ug/L		87
40) 1,1-Dichloropropene	5.291	75	1051280	86.905	ug/L		99
41) Benzene	5.534	78	2938552	84.503	ug/L		99
42) tert-Amyl methyl ether	5.645	73	1825113	83.102	ug/L		98
44) 1,2-Dichloroethane	5.737	62	938999	83.035	ug/L		99
47) Methyl cyclohexane	6.119	83	1288525	90.534	ug/L		97
48) Trichloroethene	6.128	95	856971	83.809	ug/L		98
50) Dibromomethane	6.565	93	413772	82.844	ug/L		94
51) 1,2-Dichloropropane	6.663	63	739814	82.898	ug/L		98
53) 2-Chloroethyl vinyl ether	7.355	63	329063	89.107	ug/L		99
54) Bromodichloromethane	6.741	83	1069432	84.349	ug/L		98
57) 1,4-Dioxane	6.950	88	30295M1	971.578	ug/L		
58) cis-1,3-Dichloropropene	7.424	75	1197159	86.442	ug/L		94
61) Toluene	7.686	92	1847678	83.643	ug/L		100
62) 4-Methyl-2-pentanone	8.116	58	168217	90.304	ug/L		91
63) Tetrachloroethene	8.135	166	894371	87.830	ug/L		100
65) trans-1,3-Dichloropropene	8.169	75	1035888	85.653	ug/L		93
67) Ethyl methacrylate	8.356	69	695407	88.004	ug/L		95
68) 1,1,2-Trichloroethane	8.356	83	462797	82.427	ug/L		99
69) Chlorodibromomethane	8.565	129	746036	85.337	ug/L		97
70) 1,3-Dichloropropane	8.674	76	960941	84.115	ug/L		100
71) 1,2-Dibromoethane	8.841	107	542577	85.051	ug/L		99
72) 2-Hexanone	9.123	43	319798	84.335	ug/L		97
73) Chlorobenzene	9.488	112	2034373	83.689	ug/L		99
74) Ethylbenzene	9.527	91	3685128	85.540	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.572	131	775235	85.017	ug/L		99
76) p/m Xylene	9.711	106	2829629	170.562	ug/L		100
77) o Xylene	10.258	106	2712460	170.921	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N10.D
Acq On : 7 May 2024 9:58 pm
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1918530,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 08 10:45:14 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.327	104	4468899	172.766	ug/L	96
80) Bromoform	10.352	173	466578	85.157	ug/L	99
82) Isopropylbenzene	10.642	105	3697476	84.897	ug/L	98
84) Bromobenzene	11.083	156	886538	82.409	ug/L	100
85) n-Propylbenzene	11.128	91	4320354	85.174	ug/L	99
86) 1,4-Dichlorobutane	11.142	55	808790	78.019	ug/L	94
87) 1,1,2,2-Tetrachloroethane	11.220	83	565578	81.360	ug/L	99
88) 4-Ethyltoluene	11.253	105	3550540	85.275	ug/L	98
89) 2-Chlorotoluene	11.295	91	2468612M1	82.539	ug/L	
90) 1,3,5-Trimethylbenzene	11.353	105	3060381	84.949	ug/L	97
91) 1,2,3-Trichloropropane	11.356	75	497802M1	80.864	ug/L	
92) trans-1,4-Dichloro-2-b...	11.406	53	172897	83.798	ug/L	94
93) 4-Chlorotoluene	11.482	91	2558808	83.390	ug/L	97
94) tert-Butylbenzene	11.694	119	2578613	85.505	ug/L	98
97) 1,2,4-Trimethylbenzene	11.772	105	2977731	84.505	ug/L	97
98) sec-Butylbenzene	11.886	105	3754997	86.926	ug/L	98
99) p-Isopropyltoluene	12.039	119	3225377	87.166	ug/L	99
100) 1,3-Dichlorobenzene	12.106	146	1665558	84.535	ug/L	99
101) 1,4-Dichlorobenzene	12.201	146	1671999	83.275	ug/L	99
102) p-Diethylbenzene	12.413	119	1824294	87.645	ug/L	98
103) n-Butylbenzene	12.472	91	2664884	87.309	ug/L	99
104) 1,2-Dichlorobenzene	12.625	146	1487325	83.893	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.208	119	2609864	85.804	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.406	155	93742	89.257	ug/L	99
107) 1,3,5-Trichlorobenzene	13.437	180	1072356	85.416	ug/L	99
108) Hexachlorobutadiene	14.011	225	425292	87.034	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	886058	84.564	ug/L	99
110) Naphthalene	14.326	128	1552762	84.403	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	677992	83.095	ug/L	98

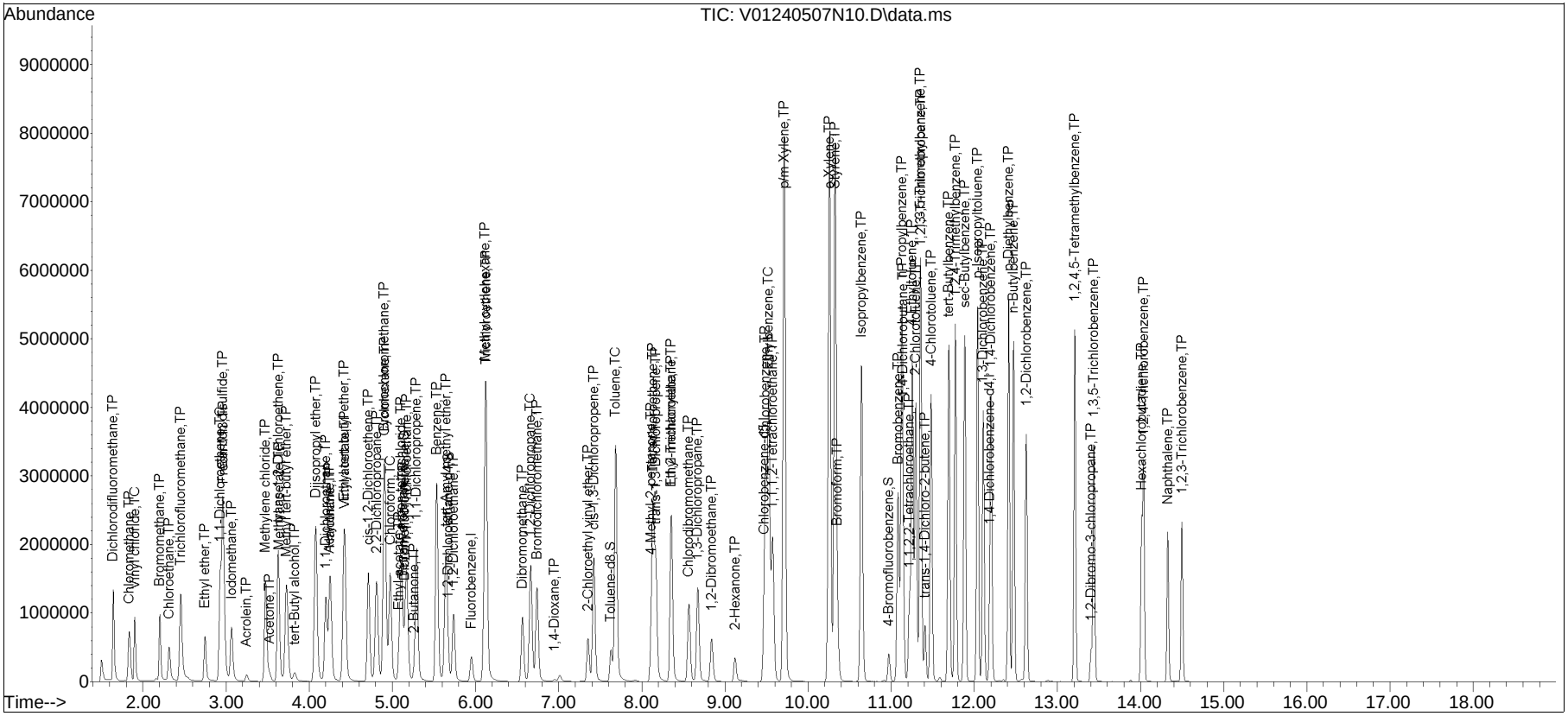
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N10.D
Acq On : 7 May 2024 9:58 pm
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG1918530,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 08 10:45:14 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

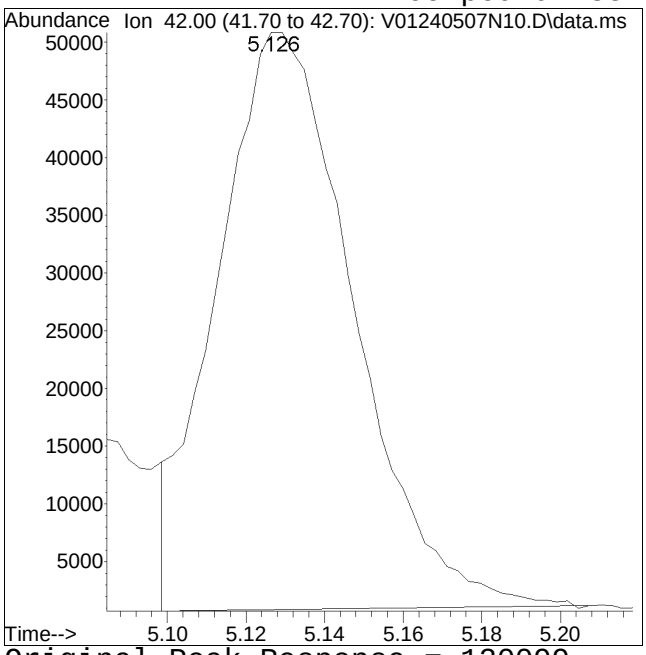
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•

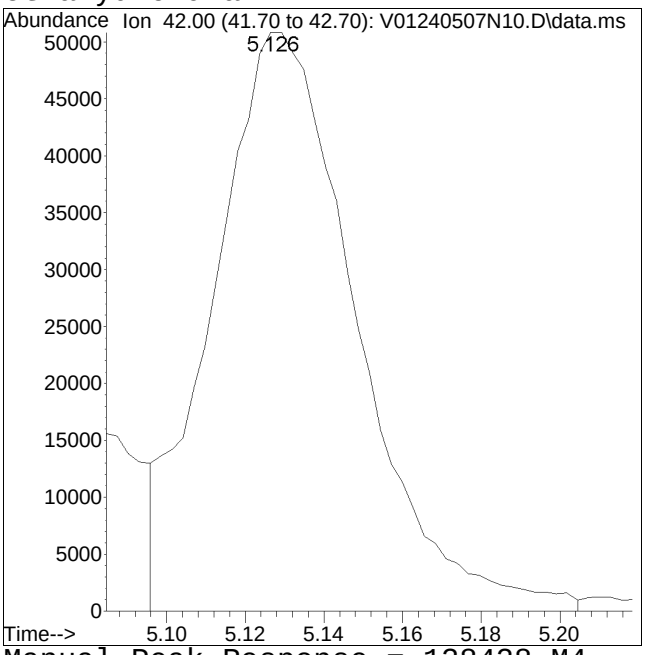


Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N10.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:58 pm Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 5/8/2024 10:45 am

Compound #35: Tetrahydrofuran



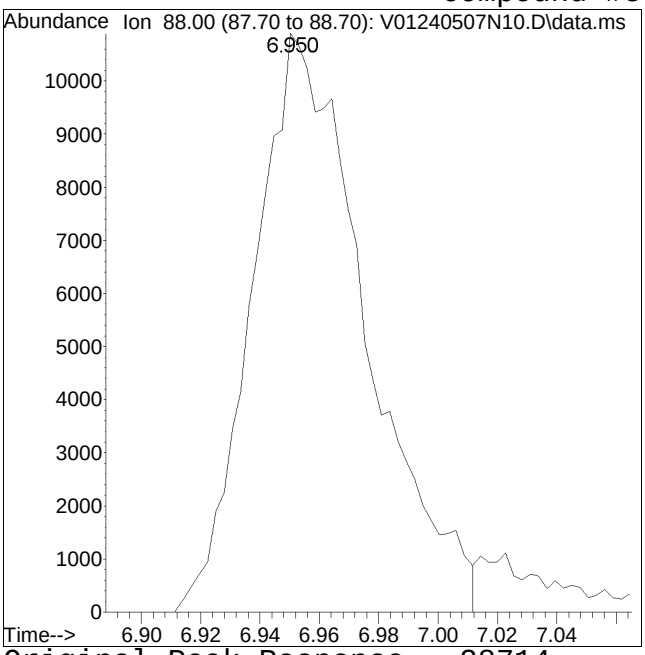


Original Peak Response = 120099 Manual Peak Response = 128428 M4
M4 = Poor automated baseline construction.

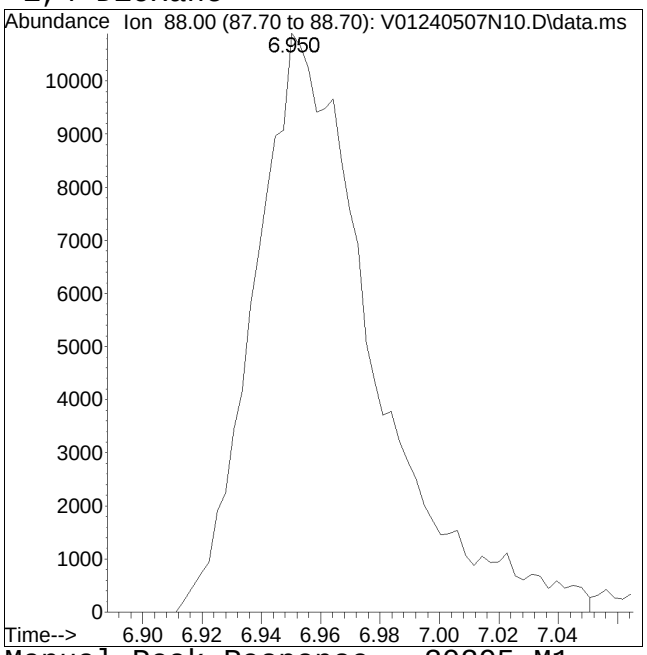
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N10.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:58 pm Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 5/8/2024 10:45 am

Compound #57: 1,4-Dioxane



Original Peak Response = 28714



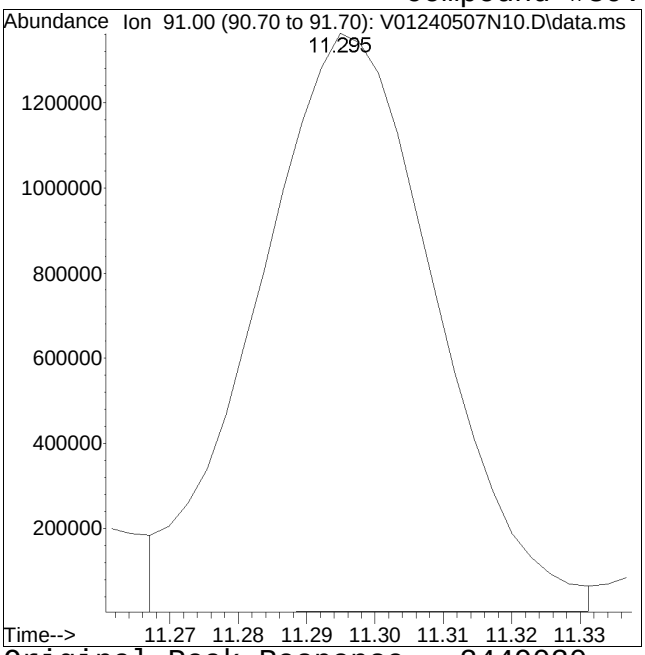
Manual Peak Response = 30295 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

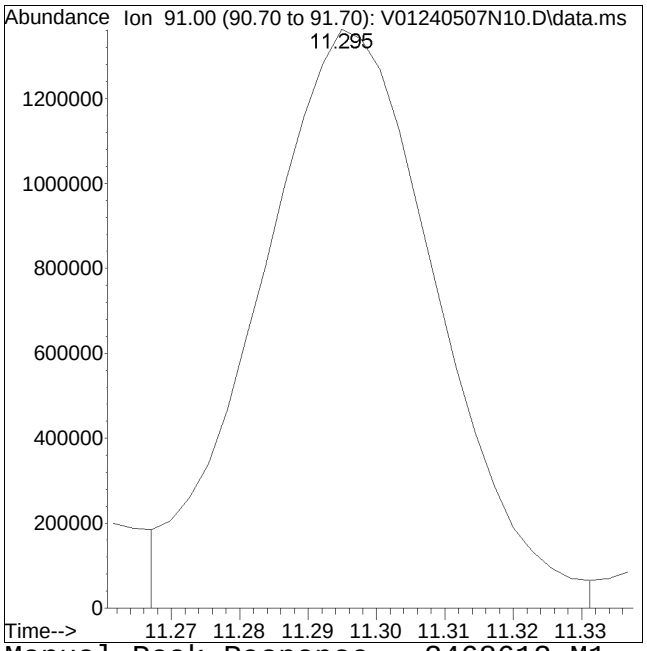
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N10.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:58 pm Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 5/8/2024 10:45 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 2449030



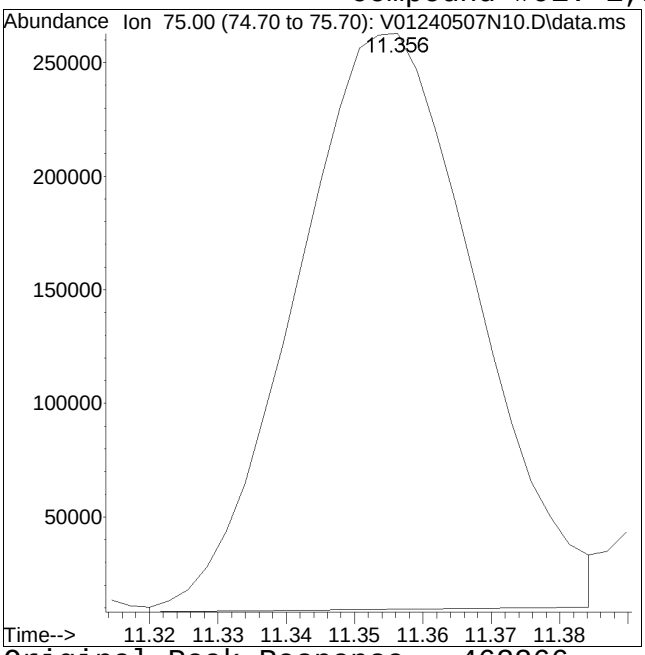
Manual Peak Response = 2468612 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

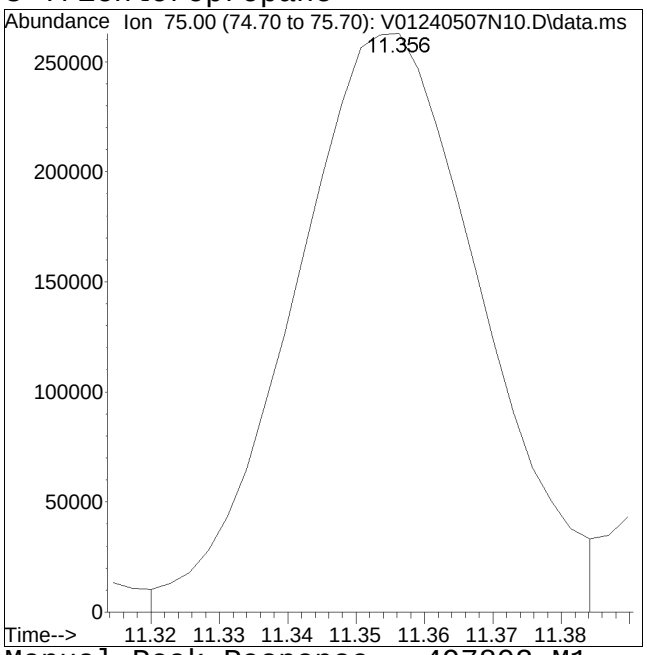
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N10.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 9:58 pm Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 5/8/2024 10:45 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 462266



Manual Peak Response = 497802 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N11.D
Acq On : 7 May 2024 10:24 pm
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1918530,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 08 10:45:21 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	390876	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 98.99%			
59) Chlorobenzene-d5	9.471	117	296204	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 99.83%			
79) 1,4-Dichlorobenzene-d4	12.184	152	171945	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 102.73%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.149	113	106151	10.087	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.87%			
43) 1,2-Dichloroethane-d4	5.667	65	121754	10.092	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.92%			
60) Toluene-d8	7.631	98	382697	9.906	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.06%			
83) 4-Bromofluorobenzene	10.974	95	146105	9.808	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.643	85	1477251	125.949	ug/L	99
3) Chloromethane	1.836	50	1280508	111.446	ug/L	99
4) Vinyl chloride	1.903	62	1134933	124.937	ug/L	99
5) Bromomethane	2.204	94	729128	121.934	ug/L	97
6) Chloroethane	2.313	64	657638	119.044	ug/L	99
7) Trichlorofluoromethane	2.455	101	1839818	127.222	ug/L	98
8) Ethyl ether	2.748	74	413180	118.830	ug/L	98
10) 1,1-Dichloroethene	2.932	96	898260	122.213	ug/L	97
11) Carbon disulfide	2.960	76	2785308	125.824	ug/L	99
12) Freon-113	2.965	101	1007581	129.400	ug/L	84
13) Iodomethane	3.066	142	1463989	143.321	ug/L	98
14) Acrolein	3.247	56	116838	111.922	ug/L	95
15) Methylene chloride	3.476	84	1083697	112.213	ug/L	99
17) Acetone	3.520	43	186996	47.458	ug/L	95
18) trans-1,2-Dichloroethene	3.629	96	1087955	122.921	ug/L	98
19) Methyl acetate	3.635	43	457510	116.889	ug/L	96
20) Methyl tert-butyl ether	3.727	73	2519870	120.187	ug/L	98
21) tert-Butyl alcohol	3.830	59	239243	615.944	ug/L	98
22) Diisopropyl ether	4.078	45	3543595	120.161	ug/L	99
23) 1,1-Dichloroethane	4.201	63	2065160	122.267	ug/L	99
24) Halothane	4.251	117	828233	126.323	ug/L	100

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N11.D
Acq On : 7 May 2024 10:24 pm
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1918530,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 08 10:45:21 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.245	53	206880	121.058	ug/L		99
26) Ethyl tert-butyl ether	4.424	59	3130716	120.664	ug/L	#	80
27) Vinyl acetate	4.429	43	1168582	107.568	ug/L	#	95
28) cis-1,2-Dichloroethene	4.711	96	1193878	121.830	ug/L		99
29) 2,2-Dichloropropane	4.811	77	1646017	120.831	ug/L		99
30) Bromochloromethane	4.906	128	512826	118.162	ug/L		95
31) Cyclohexane	4.906	56	1830105	124.918	ug/L		95
32) Chloroform	4.976	83	2046233	123.182	ug/L		99
33) Ethyl acetate	5.082	43	714016	124.787	ug/L		98
34) Carbon tetrachloride	5.110	117	1717742	129.335	ug/L		98
35) Tetrahydrofuran	5.129	42	183703M1	109.959	ug/L		
37) 1,1,1-Trichloroethane	5.171	97	1856778	124.831	ug/L		99
39) 2-Butanone	5.260	43	289834	128.722	ug/L		86
40) 1,1-Dichloropropene	5.291	75	1555517	125.194	ug/L		99
41) Benzene	5.534	78	4386265	122.805	ug/L		99
42) tert-Amyl methyl ether	5.648	73	2720781	120.614	ug/L		98
44) 1,2-Dichloroethane	5.737	62	1404567	120.926	ug/L		100
47) Methyl cyclohexane	6.116	83	1872576	128.097	ug/L		96
48) Trichloroethene	6.128	95	1304956	124.251	ug/L		98
50) Dibromomethane	6.565	93	624686	121.771	ug/L		94
51) 1,2-Dichloropropane	6.666	63	1116750	121.832	ug/L		98
53) 2-Chloroethyl vinyl ether	7.355	63	480910	126.788	ug/L		98
54) Bromodichloromethane	6.741	83	1613073	123.869	ug/L		98
57) 1,4-Dioxane	6.953	88	39342	1228.414	ug/L		97
58) cis-1,3-Dichloropropene	7.424	75	1779431	125.094	ug/L		94
61) Toluene	7.686	92	2776883	122.815	ug/L		100
62) 4-Methyl-2-pentanone	8.116	58	247064	129.579	ug/L		91
63) Tetrachloroethene	8.138	166	1338367	128.407	ug/L		100
65) trans-1,3-Dichloropropene	8.169	75	1558707	125.916	ug/L		94
67) Ethyl methacrylate	8.356	69	1028294	127.137	ug/L		96
68) 1,1,2-Trichloroethane	8.356	83	692190	120.447	ug/L		99
69) Chlorodibromomethane	8.570	129	1135558	126.904	ug/L		97
70) 1,3-Dichloropropane	8.674	76	1430817	122.363	ug/L		100
71) 1,2-Dibromoethane	8.841	107	814959	124.809	ug/L		99
72) 2-Hexanone	9.123	43	473226	121.924	ug/L		97
73) Chlorobenzene	9.491	112	3057493	122.882	ug/L		99
74) Ethylbenzene	9.527	91	5526405	125.328	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.574	131	1182929	126.742	ug/L		98
76) p/m Xylene	9.714	106	4223058	248.695	ug/L		99
77) o Xylene	10.260	106	4060837	249.997	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N11.D
Acq On : 7 May 2024 10:24 pm
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1918530,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 08 10:45:21 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.327	104	6707150	253.329	ug/L	96
80) Bromoform	10.352	173	713414	130.124	ug/L	99
82) Isopropylbenzene	10.642	105	5503969	126.293	ug/L	98
84) Bromobenzene	11.083	156	1337690	124.266	ug/L	100
85) n-Propylbenzene	11.128	91	6372102	125.541	ug/L	99
86) 1,4-Dichlorobutane	11.144	55	1195764	115.273	ug/L	93
87) 1,1,2,2-Tetrachloroethane	11.217	83	804985	115.724	ug/L	99
88) 4-Ethyltoluene	11.256	105	5277023	126.659	ug/L	98
89) 2-Chlorotoluene	11.298	91	3739142M1	124.938	ug/L	
90) 1,3,5-Trimethylbenzene	11.353	105	4524807	125.517	ug/L	97
91) 1,2,3-Trichloropropane	11.353	75	733364M4	119.051	ug/L	
92) trans-1,4-Dichloro-2-b...	11.406	53	252844	122.466	ug/L	96
93) 4-Chlorotoluene	11.482	91	3812624	124.170	ug/L	98
94) tert-Butylbenzene	11.696	119	3804007	126.056	ug/L	97
97) 1,2,4-Trimethylbenzene	11.772	105	4421674	125.402	ug/L	97
98) sec-Butylbenzene	11.886	105	5534667	128.041	ug/L	98
99) p-Isopropyltoluene	12.039	119	4763869	128.660	ug/L	99
100) 1,3-Dichlorobenzene	12.109	146	2491562	126.376	ug/L	99
101) 1,4-Dichlorobenzene	12.201	146	2497333	124.301	ug/L	98
102) p-Diethylbenzene	12.413	119	2700102	129.637	ug/L	98
103) n-Butylbenzene	12.472	91	3909627	128.007	ug/L	99
104) 1,2-Dichlorobenzene	12.625	146	2209132	124.525	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.208	119	3886066	127.678	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.403	155	136733	130.106	ug/L	98
107) 1,3,5-Trichlorobenzene	13.439	180	1605405	127.791	ug/L	99
108) Hexachlorobutadiene	14.014	225	653430	133.634	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	1349204	128.682	ug/L	99
110) Naphthalene	14.326	128	2311836	125.582	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	1036250	126.920	ug/L	97

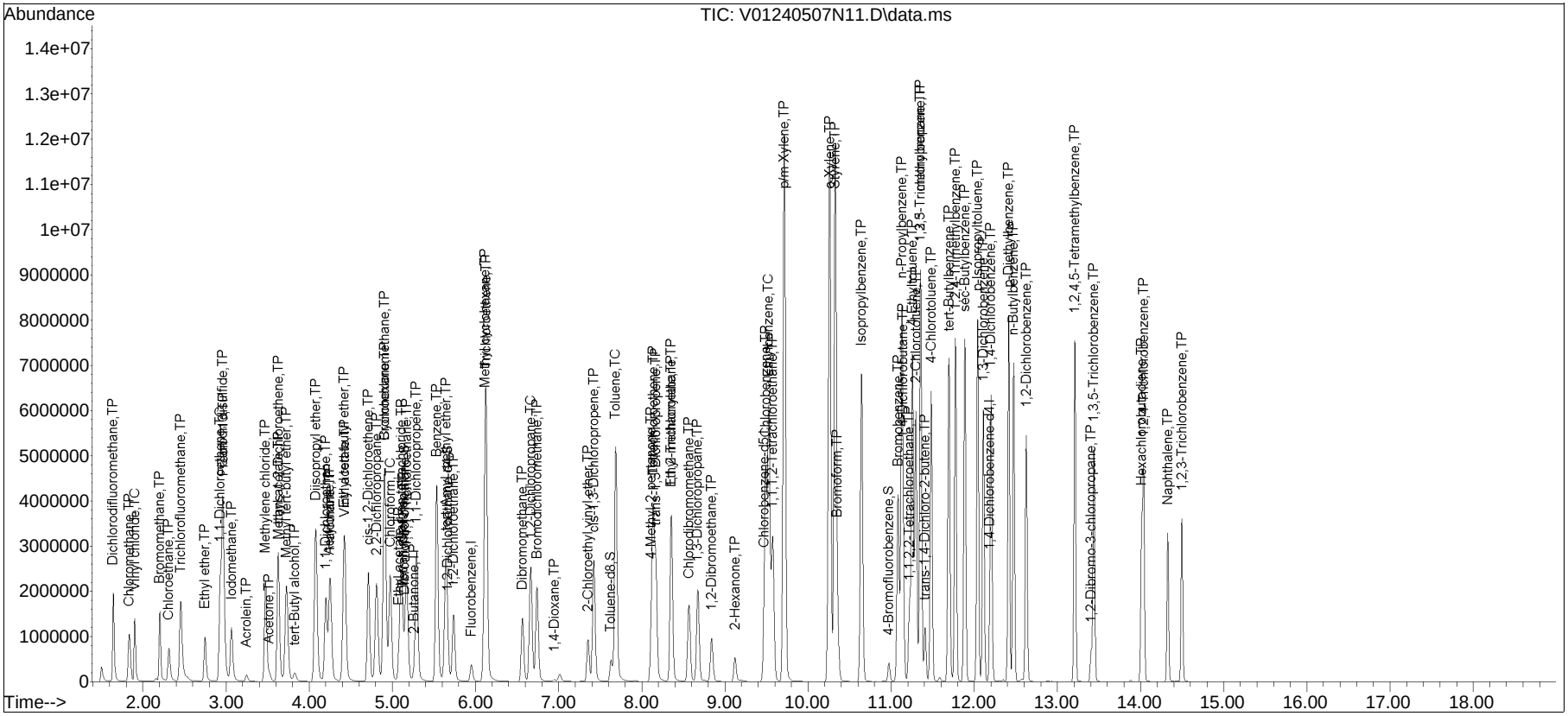
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N11.D
Acq On : 7 May 2024 10:24 pm
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG1918530,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 08 10:45:21 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

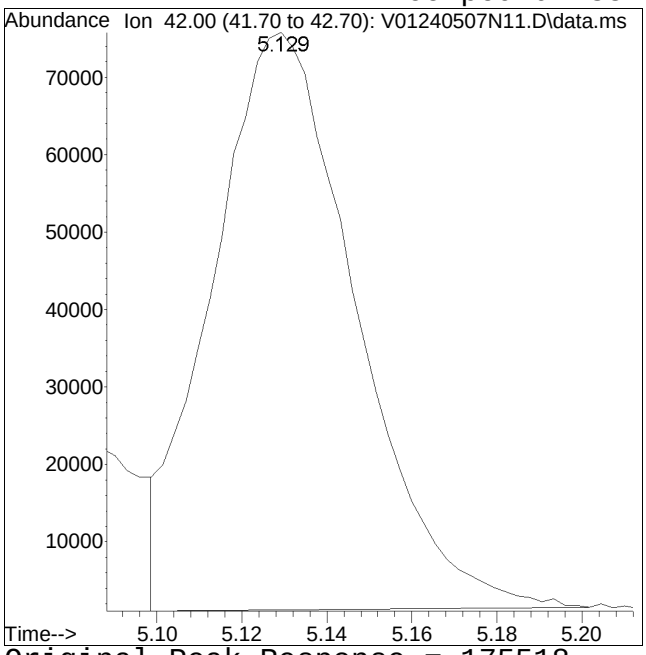
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•

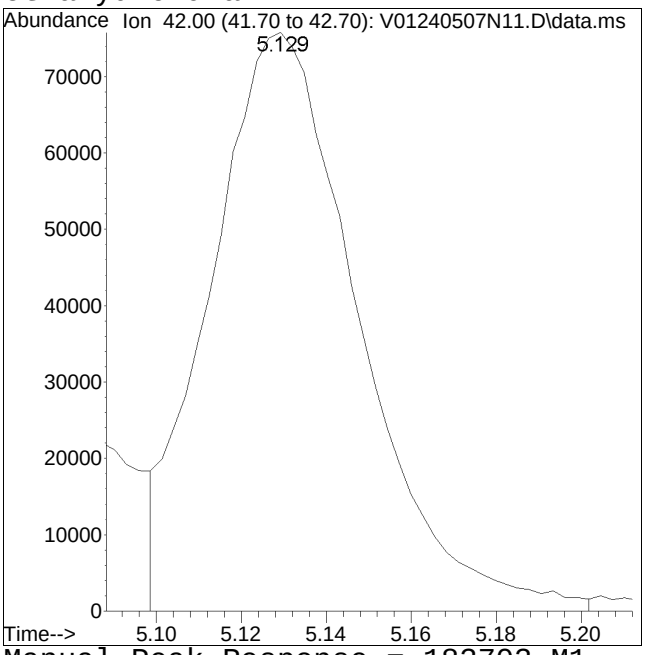


Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N11.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 10:24 pm Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 5/8/2024 10:45 am

Compound #35: Tetrahydrofuran



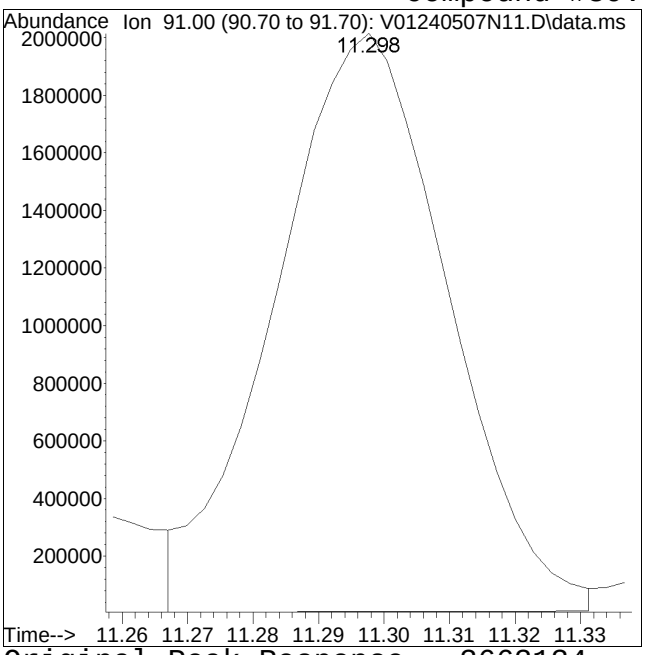


Original Peak Response = 175518 Manual Peak Response = 183703 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

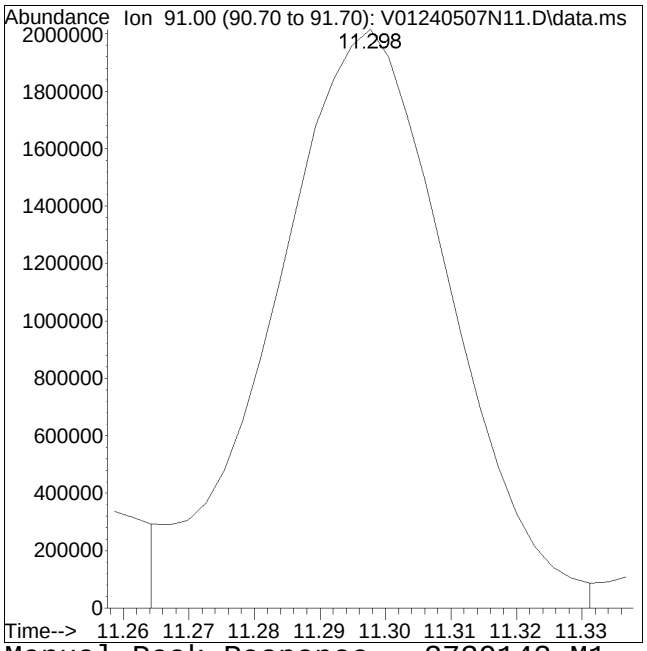
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N11.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 10:24 pm Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 5/8/2024 10:45 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3663134



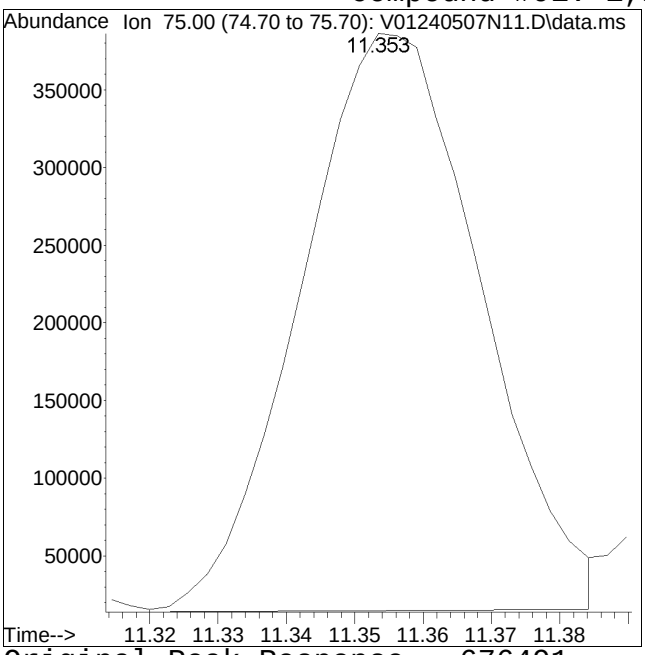
Manual Peak Response = 3739142 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

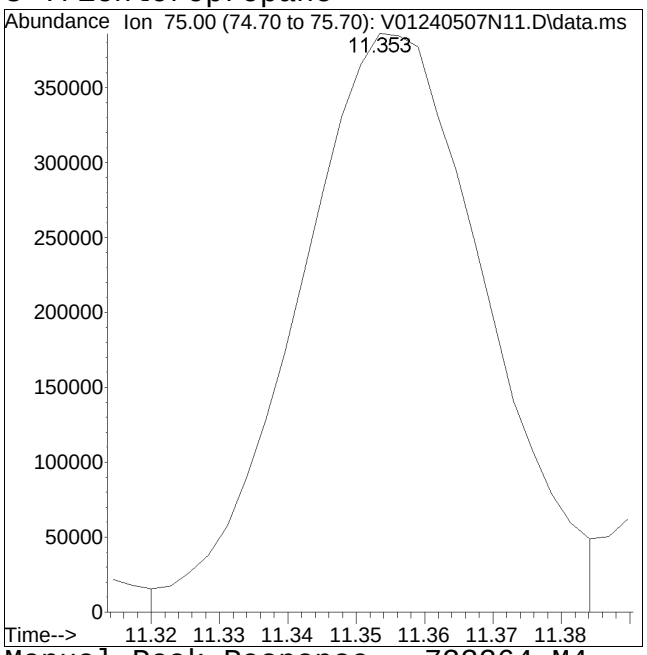
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N11.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 10:24 pm Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 5/8/2024 10:45 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 676491



Manual Peak Response = 733364 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N12.D
Acq On : 7 May 2024 10:50 pm
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1918530,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 08 10:45:28 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	385553	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 97.64%			
59) Chlorobenzene-d5	9.471	117	291361	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 98.20%			
79) 1,4-Dichlorobenzene-d4	12.190	152	174787	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 104.43%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.149	113	103352	9.956	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.56%			
43) 1,2-Dichloroethane-d4	5.673	65	120674	10.141	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.41%			
60) Toluene-d8	7.631	98	377901	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
83) 4-Bromofluorobenzene	10.971	95	144529	9.545	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.45%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.646	85	2411931	208.479	ug/L	99
3) Chloromethane	1.836	50	2142358	189.030	ug/L	99
4) Vinyl chloride	1.903	62	1886394	210.528	ug/L	99
5) Bromomethane	2.204	94	1300487	220.486	ug/L	97
6) Chloroethane	2.310	64	1103838	202.572	ug/L	100
7) Trichlorofluoromethane	2.455	101	3067871	215.069	ug/L	98
8) Ethyl ether	2.748	74	699261	203.883	ug/L	98
10) 1,1-Dichloroethene	2.932	96	1521556	209.873	ug/L	98
11) Carbon disulfide	2.960	76	4762929	218.132	ug/L	99
12) Freon-113	2.965	101	1668003	217.173	ug/L	80
13) Iodomethane	3.066	142	2437225	241.892	ug/L	97
14) Acrolein	3.247	56	195171	189.540	ug/L	96
15) Methylene chloride	3.476	84	1825798	191.665	ug/L	100
17) Acetone	3.523	43	303861	78.182	ug/L	95
18) trans-1,2-Dichloroethene	3.626	96	1816276	208.042	ug/L	98
19) Methyl acetate	3.637	43	748581	193.895	ug/L	97
20) Methyl tert-butyl ether	3.727	73	4249267	205.469	ug/L	98
21) tert-Butyl alcohol	3.824	59	389593	1016.876	ug/L	99
22) Diisopropyl ether	4.081	45	5959361	204.867	ug/L	98
23) 1,1-Dichloroethane	4.201	63	3466478	208.064	ug/L	99
24) Halothane	4.254	117	1404392	217.156	ug/L	100

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N12.D
Acq On : 7 May 2024 10:50 pm
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1918530,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 08 10:45:28 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.245	53	332091	197.010	ug/L		99
26) Ethyl tert-butyl ether	4.421	59	5263244	205.657	ug/L	#	80
27) Vinyl acetate	4.429	43	1931639	180.263	ug/L	#	95
28) cis-1,2-Dichloroethene	4.711	96	2017736	208.743	ug/L		99
29) 2,2-Dichloropropane	4.811	77	2731845	203.308	ug/L		98
30) Bromochloromethane	4.903	128	852355	199.105	ug/L		94
31) Cyclohexane	4.909	56	2953630	204.390	ug/L		94
32) Chloroform	4.976	83	3452500	210.707	ug/L		100
33) Ethyl acetate	5.079	43	1183403	209.677	ug/L		98
34) Carbon tetrachloride	5.110	117	2874572	219.426	ug/L		98
35) Tetrahydrofuran	5.126	42	301216M1	182.788	ug/L		
37) 1,1,1-Trichloroethane	5.171	97	3114144	212.255	ug/L		99
39) 2-Butanone	5.260	43	472451	212.723	ug/L		88
40) 1,1-Dichloropropene	5.291	75	2583729	210.819	ug/L		99
41) Benzene	5.536	78	7321127	207.804	ug/L		99
42) tert-Amyl methyl ether	5.648	73	4589206	206.251	ug/L		97
44) 1,2-Dichloroethane	5.737	62	2370113	206.871	ug/L		99
47) Methyl cyclohexane	6.119	83	3083245	213.827	ug/L		95
48) Trichloroethene	6.130	95	2188327	211.238	ug/L		97
50) Dibromomethane	6.565	93	1058264	209.137	ug/L		94
51) 1,2-Dichloropropane	6.666	63	1869820	206.805	ug/L		98
53) 2-Chloroethyl vinyl ether	7.357	63	804840	215.119	ug/L		97
54) Bromodichloromethane	6.738	83	2745685	213.753	ug/L		98
57) 1,4-Dioxane	6.956	88	60899M1	1927.762	ug/L		
58) cis-1,3-Dichloropropene	7.424	75	3011281	214.616	ug/L		93
61) Toluene	7.689	92	4702002	211.415	ug/L		100
62) 4-Methyl-2-pentanone	8.119	58	409796	218.500	ug/L		92
63) Tetrachloroethene	8.138	166	2272657	221.669	ug/L		100
65) trans-1,3-Dichloropropene	8.169	75	2617291	214.945	ug/L		92
67) Ethyl methacrylate	8.356	69	1730280	217.485	ug/L		96
68) 1,1,2-Trichloroethane	8.353	83	1154841	204.292	ug/L		99
69) Chlorodibromomethane	8.570	129	1956468	222.279	ug/L		98
70) 1,3-Dichloropropane	8.676	76	2388882	207.692	ug/L		99
71) 1,2-Dibromoethane	8.838	107	1373329	213.817	ug/L		99
72) 2-Hexanone	9.117	43	801983	210.062	ug/L		97
73) Chlorobenzene	9.491	112	5194970	212.259	ug/L		98
74) Ethylbenzene	9.530	91	9336008	215.242	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.574	131	2036118	221.781	ug/L		98
76) p/m Xylene	9.716	106	7325492	438.568	ug/L		99
77) o Xylene	10.263	106	6989838	437.467	ug/L		98

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N12.D
Acq On : 7 May 2024 10:50 pm
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1918530,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 08 10:45:28 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.330	104	11625994	446.413	ug/L	95
80) Bromoform	10.358	173	1249545	224.206	ug/L	99
82) Isopropylbenzene	10.645	105	9363106	211.351	ug/L	98
84) Bromobenzene	11.086	156	2322731	212.263	ug/L	100
85) n-Propylbenzene	11.130	91	10813633	209.583	ug/L	99
86) 1,4-Dichlorobutane	11.144	55	1997818	189.460	ug/L	92
87) 1,1,2,2-Tetrachloroethane	11.220	83	1356277	191.807	ug/L	99
88) 4-Ethyltoluene	11.256	105	9025260	213.101	ug/L	98
89) 2-Chlorotoluene	11.298	91	6398211M1	210.311	ug/L	
90) 1,3,5-Trimethylbenzene	11.356	105	7837984	213.888	ug/L	97
91) 1,2,3-Trichloropropane	11.356	75	1250212M1	199.654	ug/L	
92) trans-1,4-Dichloro-2-b...	11.409	53	426919	203.418	ug/L	97
93) 4-Chlorotoluene	11.484	91	6577235	210.725	ug/L	97
94) tert-Butylbenzene	11.696	119	6536379	213.079	ug/L	97
97) 1,2,4-Trimethylbenzene	11.775	105	7686251	214.443	ug/L	97
98) sec-Butylbenzene	11.889	105	9444344	214.937	ug/L	99
99) p-Isopropyltoluene	12.042	119	8213873	218.229	ug/L	99
100) 1,3-Dichlorobenzene	12.109	146	4392421	219.168	ug/L	99
101) 1,4-Dichlorobenzene	12.204	146	4389942	214.949	ug/L	98
102) p-Diethylbenzene	12.416	119	4689313	221.483	ug/L	97
103) n-Butylbenzene	12.474	91	6727253	216.679	ug/L	99
104) 1,2-Dichlorobenzene	12.625	146	3887772	215.585	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.211	119	6785949	219.329	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.403	155	235023	219.996	ug/L	99
107) 1,3,5-Trichlorobenzene	13.439	180	2855808	223.628	ug/L	99
108) Hexachlorobutadiene	14.011	225	1146144	230.588	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	2391346	224.370	ug/L	99
110) Naphthalene	14.326	128	3963156	211.784	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	1819557	219.236	ug/L	98

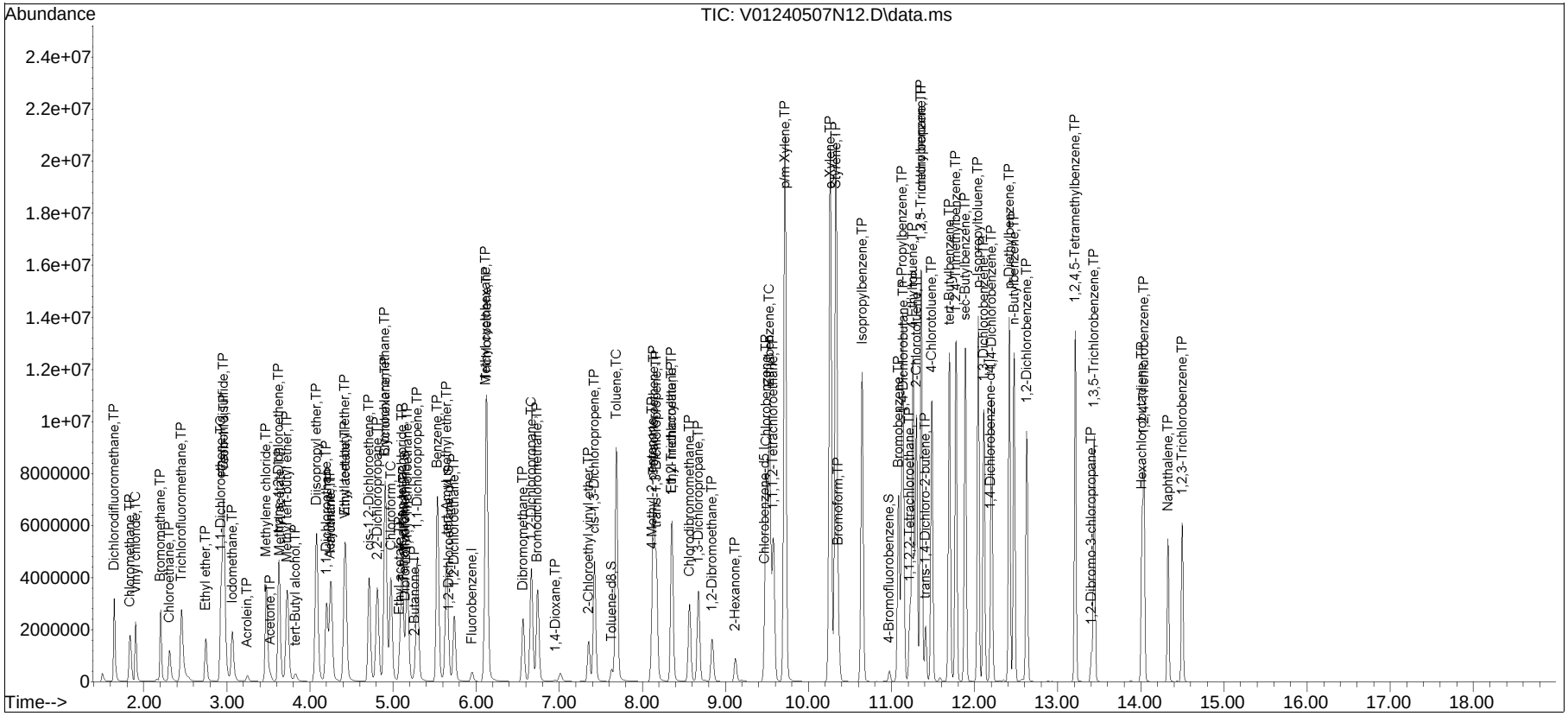
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N12.D
Acq On : 7 May 2024 10:50 pm
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG1918530,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 08 10:45:28 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:44:02 2024
Response via : Initial Calibration

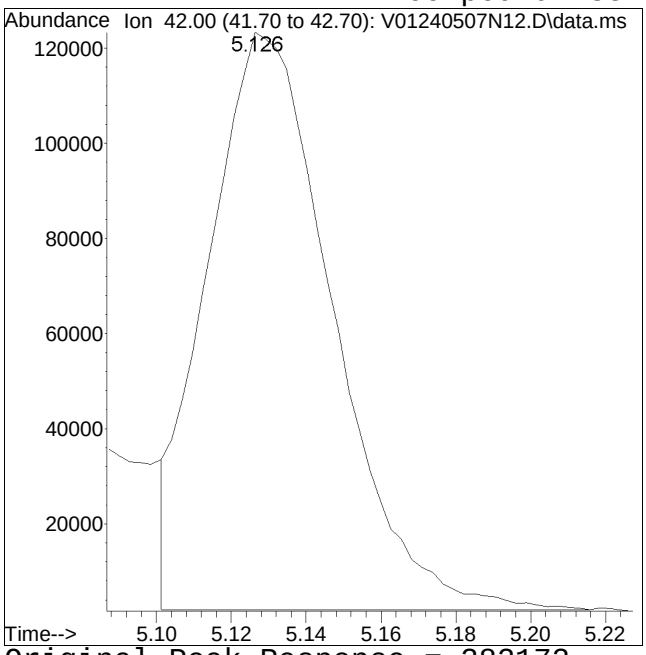
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•

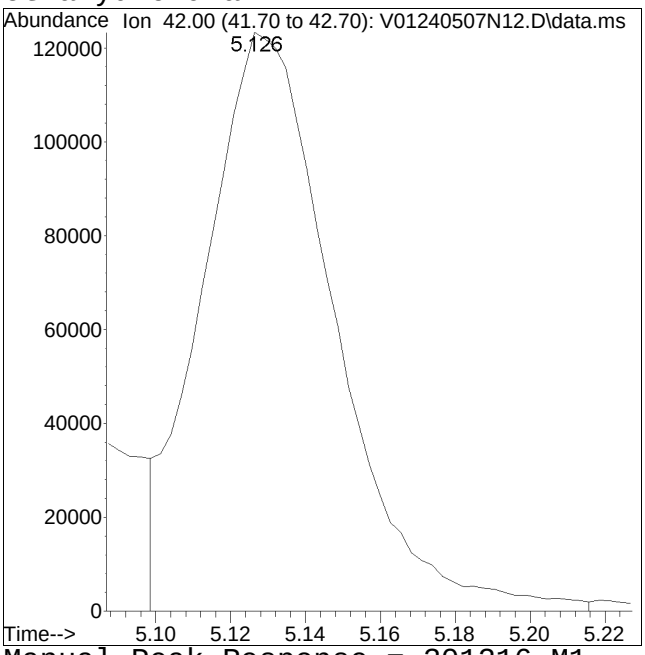


Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N12.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 10:50 pm Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 5/8/2024 10:45 am

Compound #35: Tetrahydrofuran



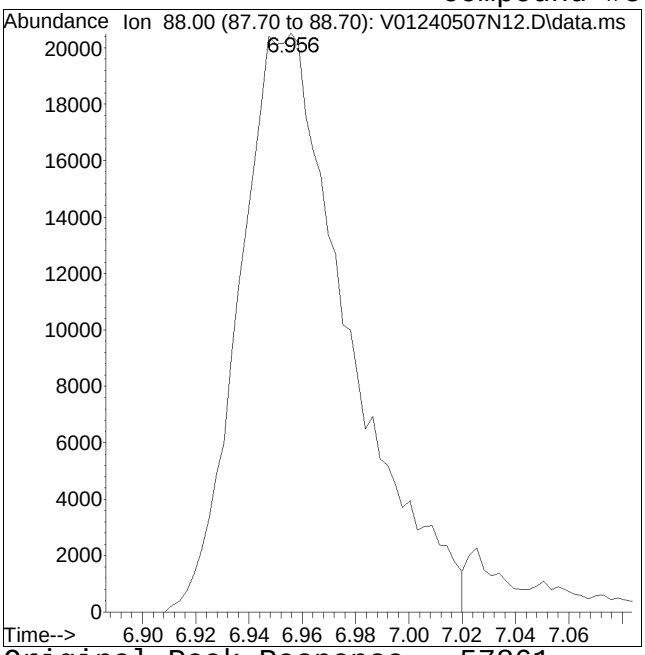


Original Peak Response = 282172 Manual Peak Response = 301216 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

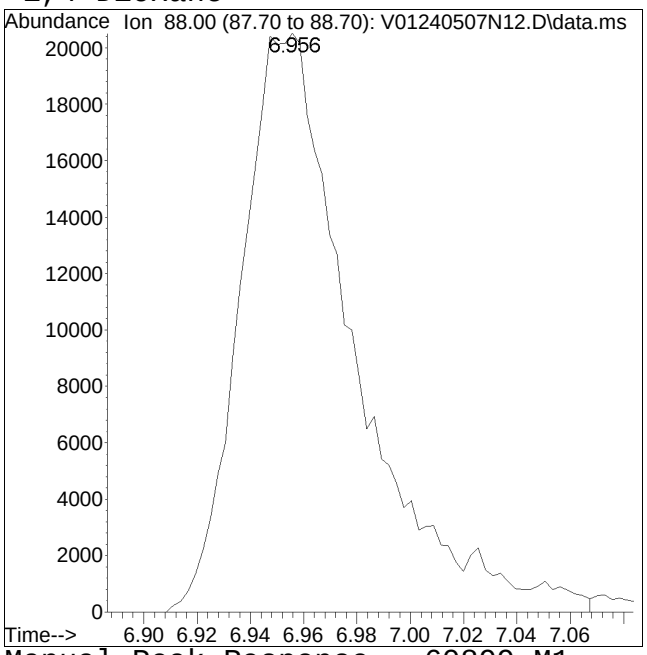
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N12.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 10:50 pm Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 5/8/2024 10:45 am

Compound #57: 1,4-Dioxane



Original Peak Response = 57861



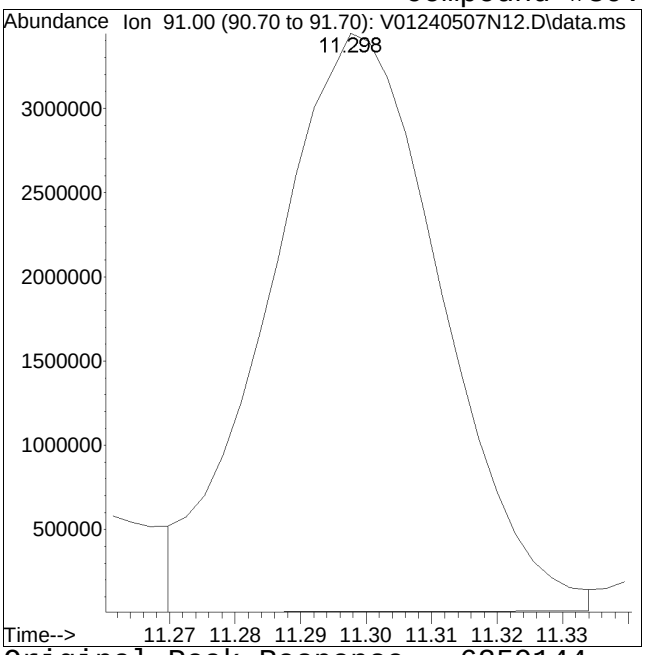
Manual Peak Response = 60899 M1

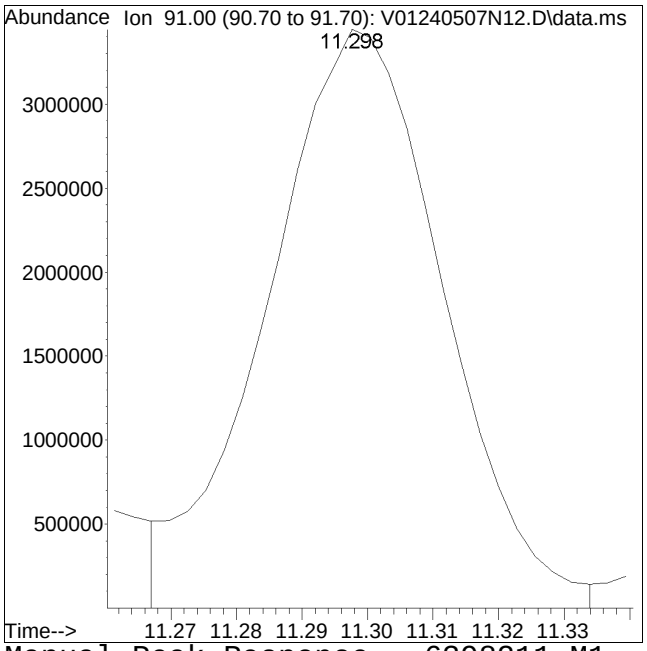
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N12.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 10:50 pm Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 5/8/2024 10:45 am

Compound #89: 2-Chlorotoluene





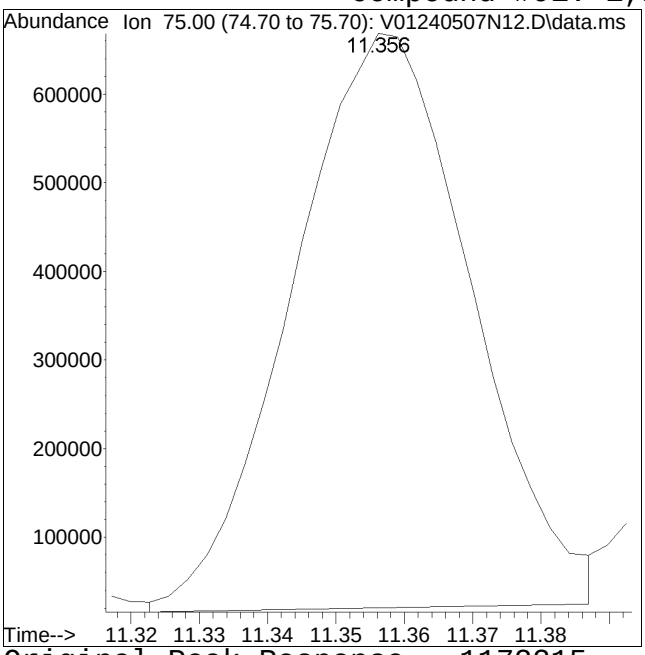
Original Peak Response = 6259144 Manual Peak Response = 6398211 M1

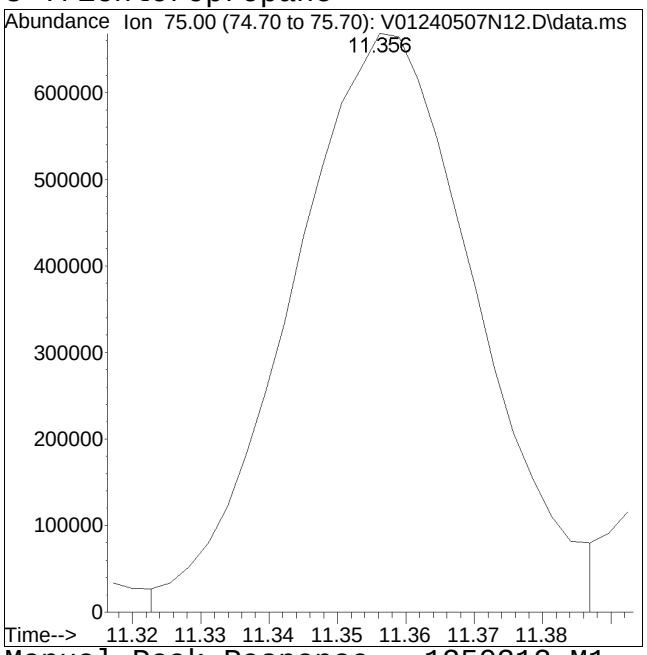
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N12.D Operator : VOA101:PID
Date Inj'd : 5/7/2024 10:50 pm Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 5/8/2024 10:45 am

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 1172215 Manual Peak Response = 1250212 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N17.D
Acq On : 8 May 2024 1:01 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 10:59:49 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	97	0.00
2	TP	Dichlorodifluoromethane	0.300	0.323	-7.7	100	0.00
3	TP	Chloromethane	0.294	0.335	-13.9	109	0.00
4	TC	Vinyl chloride	0.232	0.247	-6.5	100	0.00
5	TP	Bromomethane	0.153	0.169	-10.5	121	0.00
6	TP	Chloroethane	0.141	0.143	-1.4	99	0.00
7	TP	Trichlorofluoromethane	0.370	0.376	-1.6	96	0.00
8	TP	Ethyl ether	0.089	0.100	-12.4	110	0.00
10	TC	1,1-Dichloroethene	0.188	0.183	2.7	98	0.00
11	TP	Carbon disulfide	0.566	0.371	34.5#	66	0.00
12	TP	Freon-113	0.199	0.152	23.6#	73	0.00
13	TP	Iodomethane	0.283	0.246	13.1	96	0.00
14	TP	Acrolein	0.027	0.020	25.9#	73	0.00
15	TP	Methylene chloride	0.247	0.234	5.3	98	0.00
17	TP	Acetone	* 10.000	7.770	22.3#	82	0.00
18	TP	trans-1,2-Dichloroethene	0.226	0.222	1.8	96	0.00
19	TP	Methyl acetate	0.100	0.089	11.0	97	0.00
20	TP	Methyl tert-butyl ether	0.536	0.492	8.2	89	0.00
21	TP	tert-Butyl alcohol	0.00994	0.00733#	26.3#	82	0.00
22	TP	Diisopropyl ether	0.754	0.703	6.8	89	0.00
23	TP	1,1-Dichloroethane	0.432	0.425	1.6	94	0.00
24	TP	Halothane	0.168	0.137	18.5	79	0.00
25	TP	Acrylonitrile	0.044	0.042	4.5	95	0.00
26	TP	Ethyl tert-butyl ether	0.664	0.607	8.6	88	0.00
27	TP	Vinyl acetate	0.278	0.194	30.2#	69	0.00
28	TP	cis-1,2-Dichloroethene	0.251	0.244	2.8	94	0.00
29	TP	2,2-Dichloropropane	0.349	0.305	12.6	84	0.00
30	TP	Bromochloromethane	0.111	0.109	1.8	93	0.00
31	TP	Cyclohexane	0.375	0.276	26.4#	69	0.00
32	TC	Chloroform	0.425	0.417	1.9	97	0.00
33	TP	Ethyl acetate	0.146	0.141	3.4	94	0.00
34	TP	Carbon tetrachloride	0.340	0.333	2.1	93	0.00
35	TP	Tetrahydrofuran	0.043	0.040	7.0	89	0.00
36	S	Dibromofluoromethane	0.269	0.267	0.7	96	0.00
37	TP	1,1,1-Trichloroethane	0.381	0.372	2.4	93	0.00
39	TP	2-Butanone	0.058	0.053	8.6	96	0.00
40	TP	1,1-Dichloropropene	0.318	0.314	1.3	94	0.00
41	TP	Benzene	0.914	0.887	3.0	93	0.00
42	TP	tert-Amyl methyl ether	0.577	0.518	10.2	86	0.00

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N17.D
Acq On : 8 May 2024 1:01 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 10:59:49 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.309	0.295	4.5	94	0.00
44	TP	1,2-Dichloroethane	0.297	0.287	3.4	93	0.00
47	TP	Methyl cyclohexane	0.374	0.274	26.7#	70	0.00
48	TP	Trichloroethene	0.269	0.274	-1.9	100	0.00
50	TP	Dibromomethane	0.131	0.123	6.1	91	0.00
51	TC	1,2-Dichloropropane	0.235	0.228	3.0	94	0.00
53	TP	2-Chloroethyl vinyl ether	0.097	0.110	-13.4	106	0.00
54	TP	Bromodichloromethane	0.333	0.301	9.6	88	0.00
57	TP	1,4-Dioxane	0.00082	0.00044#	46.3#	47#	0.00
58	TP	cis-1,3-Dichloropropene	0.364	0.350	3.8	92	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
60	S	Toluene-d8	1.304	1.310	-0.5	96	0.00
61	TC	Toluene	0.763	0.740	3.0	93	0.00
62	TP	4-Methyl-2-pentanone	0.070	0.063	10.0	91	0.00
63	TP	Tetrachloroethene	0.352	0.350	0.6	96	0.00
65	TP	trans-1,3-Dichloropropene	0.418	0.400	4.3	92	0.00
67	TP	Ethyl methacrylate	0.273	0.288	-5.5	101	0.00
68	TP	1,1,2-Trichloroethane	0.194	0.184#	5.2	91	0.00
69	TP	Chlorodibromomethane	0.302	0.277	8.3	91	0.00
70	TP	1,3-Dichloropropane	0.395	0.387	2.0	94	0.00
71	TP	1,2-Dibromoethane	0.220	0.211	4.1	93	0.00
72	TP	2-Hexanone	0.131	0.111	15.3	91	0.00
73	TP	Chlorobenzene	0.840	0.825	1.8	94	0.00
74	TC	Ethylbenzene	1.489	1.435	3.6	91	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.315	0.305	3.2	94	0.00
76	TP	p/m Xylene	0.573	0.554	3.3	93	0.00
77	TP	o Xylene	0.548	0.524	4.4	91	0.00
78	TP	Styrene	0.894	0.844	5.6	91	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
80	TP	Bromoform	0.319	0.287	10.0	93	0.00
82	TP	Isopropylbenzene	2.535	2.267	10.6	87	0.00
83	S	4-Bromofluorobenzene	0.866	0.846	2.3	96	0.00
84	TP	Bromobenzene	0.626	0.616	1.6	95	0.00
85	TP	n-Propylbenzene	2.952	2.820	4.5	92	0.00
86	TP	1,4-Dichlorobutane	0.603	0.612	-1.5	100	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.405	0.329	18.8	81	0.00
88	TP	4-Ethyltoluene	2.423	2.235	7.8	90	0.00

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N17.D
Acq On : 8 May 2024 1:01 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 10:59:49 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	1.741	1.680	3.5	94	0.00
90 TP	1,3,5-Trimethylbenzene	2.097	1.961	6.5	93	0.00
91 TP	1,2,3-Trichloropropane	0.358	0.325	9.2	90	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.120	0.116	3.3	94	0.00
93 TP	4-Chlorotoluene	1.786	1.711	4.2	94	0.00
94 TP	tert-Butylbenzene	1.755	1.676	4.5	94	0.00
97 TP	1,2,4-Trimethylbenzene	2.051	1.981	3.4	95	0.00
98 TP	sec-Butylbenzene	2.514	2.401	4.5	95	0.00
99 TP	p-Isopropyltoluene	2.153	2.035	5.5	94	0.00
100 TP	1,3-Dichlorobenzene	1.147	1.108	3.4	96	0.00
101 TP	1,4-Dichlorobenzene	1.168	1.124	3.8	97	0.00
102 TP	p-Diethylbenzene	1.211	1.040	14.1	85	0.00
103 TP	n-Butylbenzene	1.776	1.736	2.3	97	0.00
104 TP	1,2-Dichlorobenzene	1.032	1.008	2.3	96	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.770	1.562	11.8	89	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.061	0.055	9.8	90	0.00
107 TP	1,3,5-Trichlorobenzene	0.731	0.618	15.5	85	0.00
108 TP	Hexachlorobutadiene	0.284	0.285	-0.4	102	0.00
109 TP	1,2,4-Trichlorobenzene	0.610	0.581	4.8	97	0.00
110 TP	Naphthalene	1.071	0.995	7.1	92	0.00
111 TP	1,2,3-Trichlorobenzene	0.475	0.451	5.1	96	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N17.D
Acq On : 8 May 2024 1:01 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 10:59:49 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	383362	10.000	ug/L	0.00
Standard Area 1 = 394857			Recovery = 97.09%			
59) Chlorobenzene-d5	9.468	117	285392	10.000	ug/L	0.00
Standard Area 1 = 296713			Recovery = 96.18%			
79) 1,4-Dichlorobenzene-d4	12.187	152	165568	10.000	ug/L	0.00
Standard Area 1 = 167376			Recovery = 98.92%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.149	113	102443	9.925	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.25%			
43) 1,2-Dichloroethane-d4	5.668	65	112996	9.550	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.50%			
60) Toluene-d8	7.631	98	373988	10.048	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.48%			
83) 4-Bromofluorobenzene	10.971	95	140017	9.762	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.646	85	123903	10.771	ug/L	98
3) Chloromethane	1.836	50	128561	11.408	ug/L	99
4) Vinyl chloride	1.900	62	94853	10.646	ug/L	99
5) Bromomethane	2.204	94	64643	11.022	ug/L	97
6) Chloroethane	2.318	64	54963	10.144	ug/L	99
7) Trichlorofluoromethane	2.455	101	144252	10.170	ug/L	97
8) Ethyl ether	2.748	74	38158	11.189	ug/L	92
10) 1,1-Dichloroethene	2.932	96	70018	9.713	ug/L	96
11) Carbon disulfide	2.963	76	142052	6.543	ug/L	98
12) Freon-113	2.963	101	58457	7.655	ug/L	98
13) Iodomethane	3.066	142	94128	8.690	ug/L	97
14) Acrolein	3.250	56	7516M1	7.341	ug/L	
15) Methylene chloride	3.478	84	89710	9.471	ug/L	99
17) Acetone	3.523	43	17045	7.770	ug/L #	67
18) trans-1,2-Dichloroethene	3.626	96	85107	9.804	ug/L	98
19) Methyl acetate	3.643	43	34267	8.926	ug/L	96
20) Methyl tert-butyl ether	3.729	73	188699	9.177	ug/L	99
21) tert-Butyl alcohol	3.833	59	14051	36.884	ug/L #	56
22) Diisopropyl ether	4.084	45	269367	9.313	ug/L	99
23) 1,1-Dichloroethane	4.201	63	162944	9.836	ug/L	100
24) Halothane	4.251	117	52569	8.175	ug/L	100

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N17.D
Acq On : 8 May 2024 1:01 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 10:59:49 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.251	53	16188	9.658	ug/L		95
26) Ethyl tert-butyl ether	4.424	59	232596	9.140	ug/L	#	77
27) Vinyl acetate	4.438	43	74526	6.995	ug/L	#	94
28) cis-1,2-Dichloroethene	4.717	96	93397	9.718	ug/L		97
29) 2,2-Dichloropropane	4.809	77	116938	8.752	ug/L		98
30) Bromochloromethane	4.903	128	41755	9.809	ug/L		95
31) Cyclohexane	4.906	56	105937	7.373	ug/L		95
32) Chloroform	4.976	83	159931	9.816	ug/L		99
33) Ethyl acetate	5.090	43	54117	9.643	ug/L	#	89
34) Carbon tetrachloride	5.110	117	127499	9.788	ug/L		99
35) Tetrahydrofuran	5.135	42	15255M1	9.310	ug/L		
37) 1,1,1-Trichloroethane	5.168	97	142481	9.767	ug/L	#	86
39) 2-Butanone	5.272	43	20289	9.187	ug/L	#	52
40) 1,1-Dichloropropene	5.291	75	120384	9.879	ug/L		100
41) Benzene	5.536	78	340186	9.711	ug/L		99
42) tert-Amyl methyl ether	5.648	73	198542	8.974	ug/L		99
44) 1,2-Dichloroethane	5.740	62	110028	9.658	ug/L		98
47) Methyl cyclohexane	6.116	83	105229	7.339	ug/L		97
48) Trichloroethene	6.130	95	105087	10.202	ug/L		98
50) Dibromomethane	6.568	93	47002	9.342	ug/L		93
51) 1,2-Dichloropropane	6.666	63	87401	9.722	ug/L		98
53) 2-Chloroethyl vinyl ether	7.357	63	42290	11.368	ug/L		99
54) Bromodichloromethane	6.744	83	115370	9.033	ug/L		100
57) 1,4-Dioxane	6.953	88	8419	268.027	ug/L		93
58) cis-1,3-Dichloropropene	7.424	75	134287	9.625	ug/L		93
61) Toluene	7.686	92	211073	9.689	ug/L		100
62) 4-Methyl-2-pentanone	8.121	58	18104	9.119	ug/L		90
63) Tetrachloroethene	8.138	166	99758	9.934	ug/L		100
65) trans-1,3-Dichloropropene	8.172	75	114132	9.569	ug/L		94
67) Ethyl methacrylate	8.359	69	82101	10.535	ug/L		94
68) 1,1,2-Trichloroethane	8.359	83	52437	9.470	ug/L		99
69) Chlorodibromomethane	8.570	129	79088	9.173	ug/L		97
70) 1,3-Dichloropropane	8.676	76	110449	9.803	ug/L		99
71) 1,2-Dibromoethane	8.849	107	60253	9.577	ug/L		99
72) 2-Hexanone	9.137	43	31756	8.492	ug/L		97
73) Chlorobenzene	9.491	112	235355	9.817	ug/L		99
74) Ethylbenzene	9.527	91	409439	9.637	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.572	131	87006	9.675	ug/L		97
76) p/m Xylene	9.714	106	315948	19.311	ug/L		100
77) o Xylene	10.258	106	299215	19.118	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N17.D
Acq On : 8 May 2024 1:01 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 10:59:49 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240507ICAL\V01240507N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.325	104	481674	18.882	ug/L		97
80) Bromoform	10.352	173	47530	9.003	ug/L		100
82) Isopropylbenzene	10.642	105	375333	8.944	ug/L		99
84) Bromobenzene	11.083	156	101984	9.839	ug/L		100
85) n-Propylbenzene	11.125	91	466946	9.554	ug/L		99
86) 1,4-Dichlorobutane	11.147	55	101378	10.149	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.217	83	54434	8.127	ug/L		99
88) 4-Ethyltoluene	11.253	105	370093	9.225	ug/L		99
89) 2-Chlorotoluene	11.298	91	278187M1	9.653	ug/L		
90) 1,3,5-Trimethylbenzene	11.351	105	324697	9.354	ug/L		98
91) 1,2,3-Trichloropropane	11.356	75	53755M1	9.062	ug/L		
92) trans-1,4-Dichloro-2-b...	11.409	53	19139	9.627	ug/L	#	79
93) 4-Chlorotoluene	11.479	91	283310	9.582	ug/L		97
94) tert-Butylbenzene	11.694	119	277493	9.550	ug/L		97
97) 1,2,4-Trimethylbenzene	11.772	105	327990	9.660	ug/L		97
98) sec-Butylbenzene	11.883	105	397481	9.550	ug/L		98
99) p-Isopropyltoluene	12.040	119	336977	9.451	ug/L		99
100) 1,3-Dichlorobenzene	12.109	146	183401	9.661	ug/L		99
101) 1,4-Dichlorobenzene	12.201	146	186161	9.623	ug/L		99
102) p-Diethylbenzene	12.413	119	172141	8.583	ug/L		98
103) n-Butylbenzene	12.472	91	287460	9.774	ug/L		99
104) 1,2-Dichlorobenzene	12.625	146	166866	9.768	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.208	119	258586	8.823	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.406	155	9056	8.949	ug/L		95
107) 1,3,5-Trichlorobenzene	13.439	180	102353	8.461	ug/L		99
108) Hexachlorobutadiene	14.008	225	47174	10.019	ug/L		100
109) 1,2,4-Trichlorobenzene	14.039	180	96219	9.530	ug/L		99
110) Naphthalene	14.329	128	164710	9.292	ug/L		100
111) 1,2,3-Trichlorobenzene	14.499	180	74729	9.505	ug/L		99

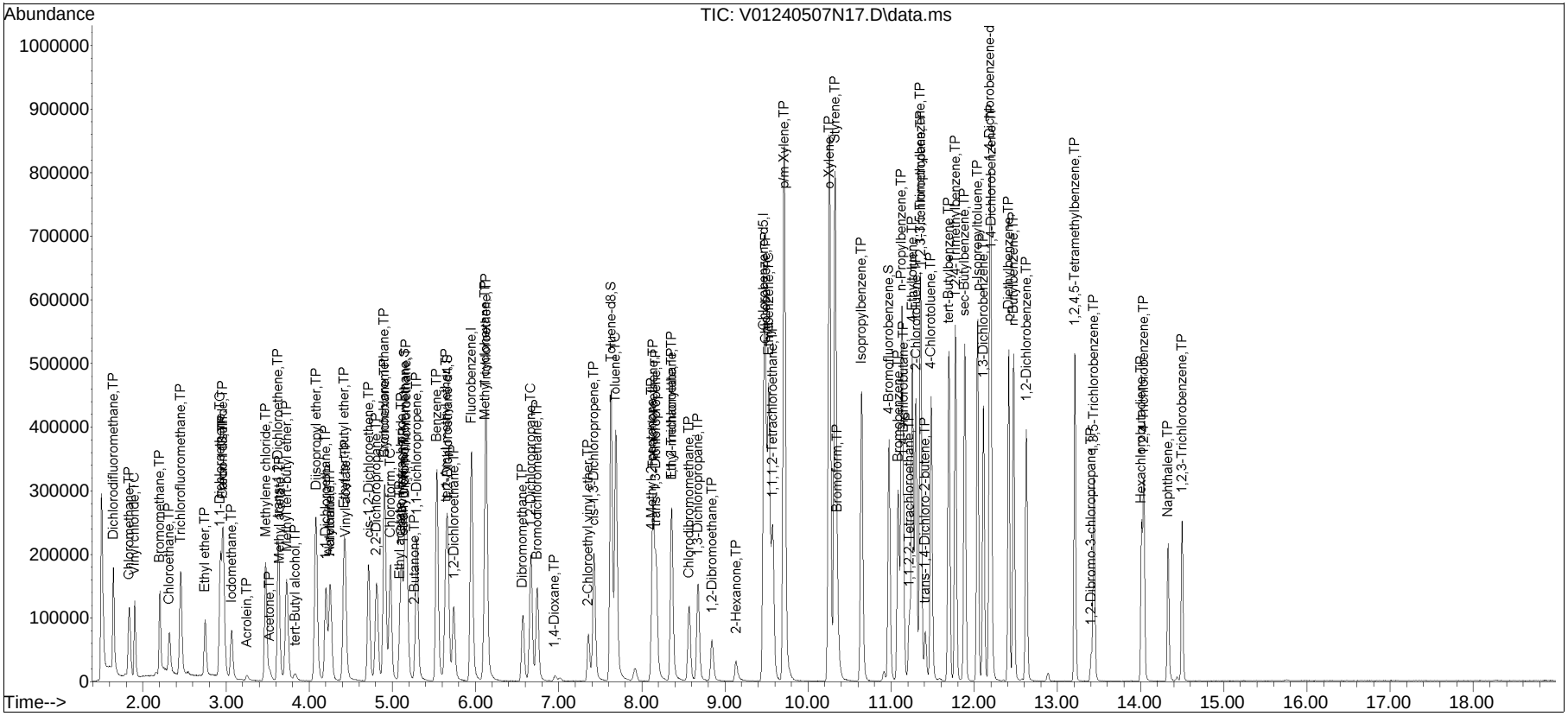
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240507ICAL\
Data File : V01240507N17.D
Acq On : 8 May 2024 1:01 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG1918530,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 08 10:59:49 2024
Quant Method : K:\VOA101\2024\240507ICAL\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

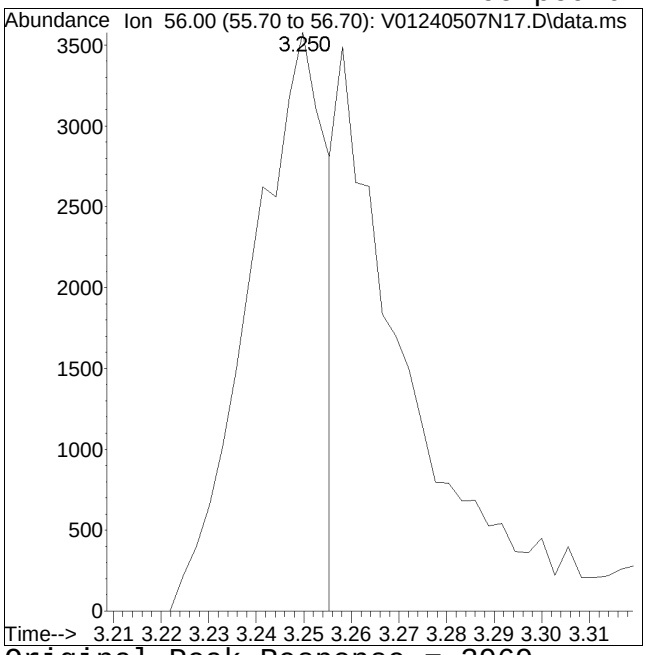
Sub List : 8260-Curve - Megamix plus DioxV01240507N08.D•



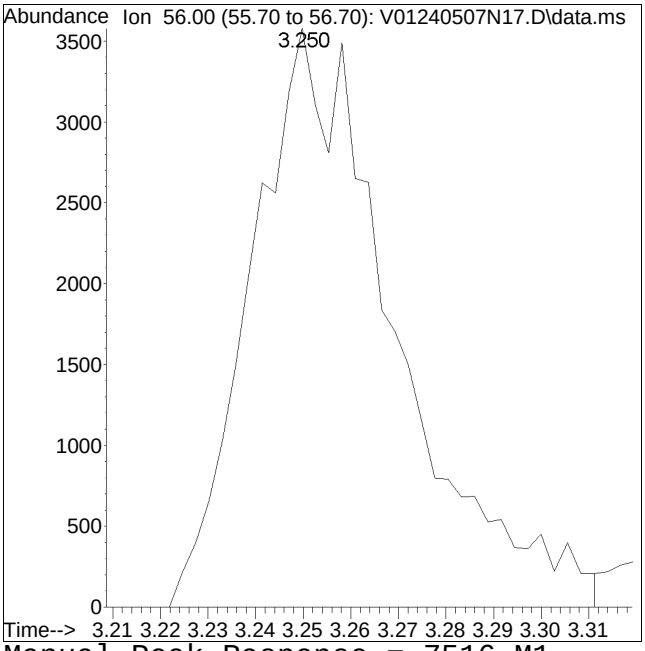
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N17.D Operator : VOA101:PID
Date Inj'd : 5/8/2024 1:01 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 5/8/2024 10:58 am

Compound #14: Acrolein



Original Peak Response = 3969



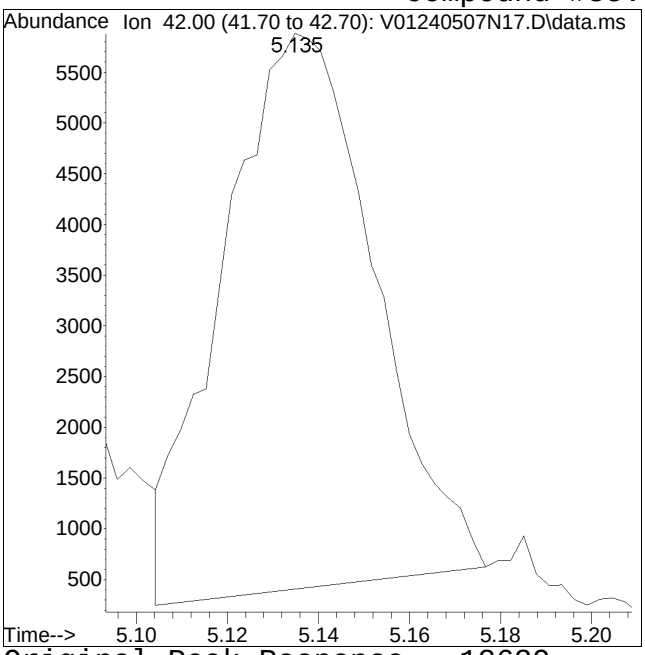
Manual Peak Response = 7516 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

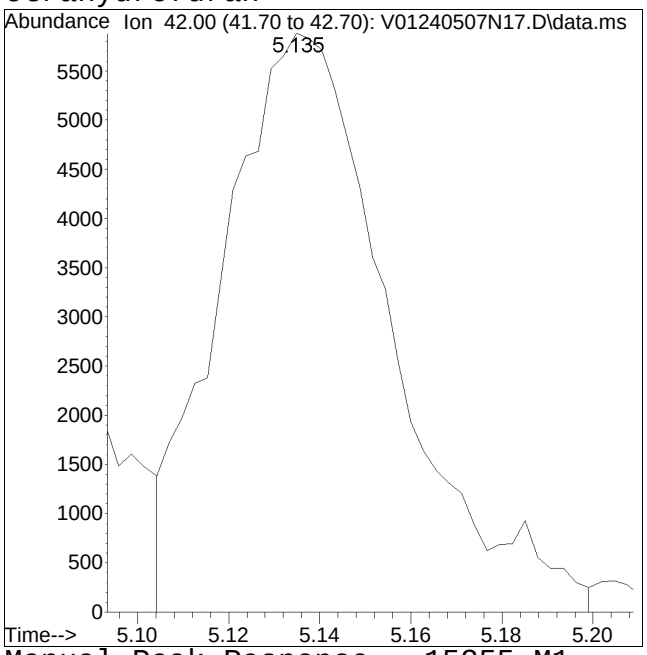
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N17.D Operator : VOA101:PID
Date Inj'd : 5/8/2024 1:01 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 5/8/2024 10:58 am

Compound #35: Tetrahydrofuran



Original Peak Response = 12639



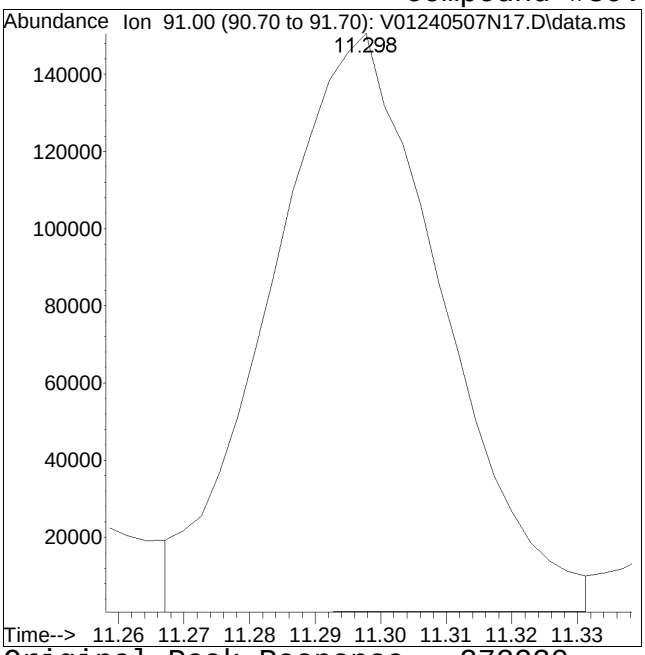
Manual Peak Response = 15255 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

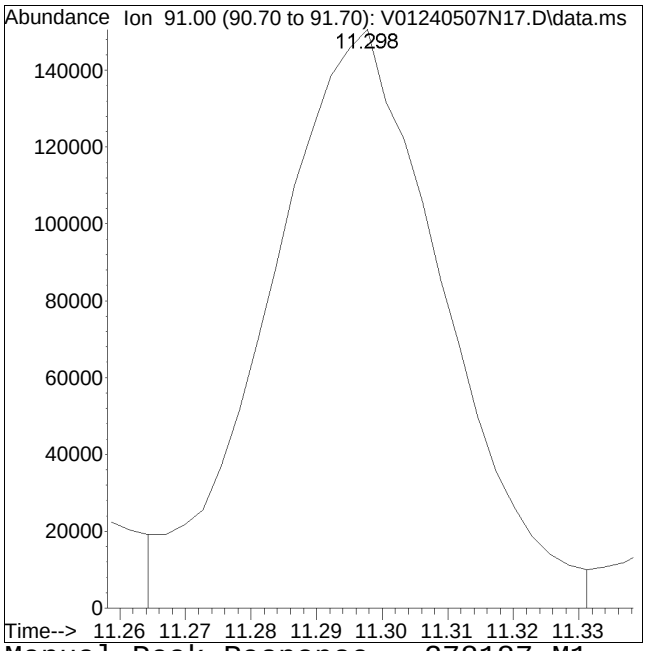
Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N17.D Operator : VOA101:PID
Date Inj'd : 5/8/2024 1:01 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 5/8/2024 10:58 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 272230



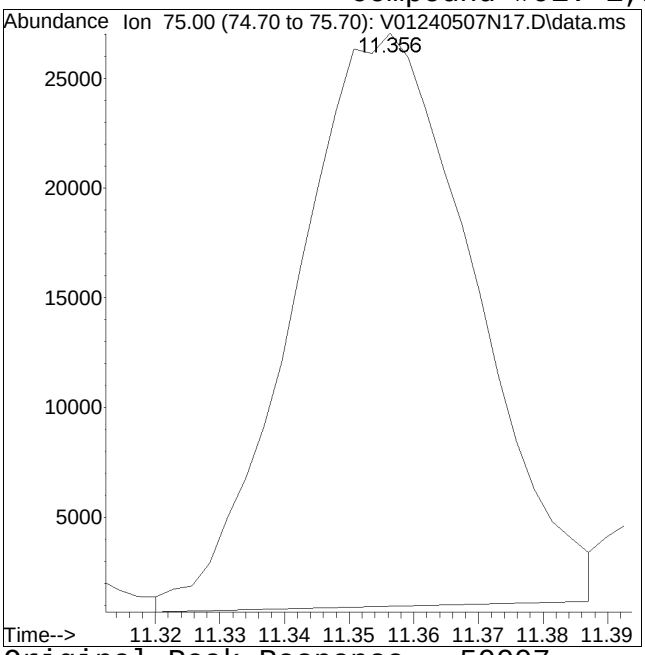
Manual Peak Response = 278187 M1

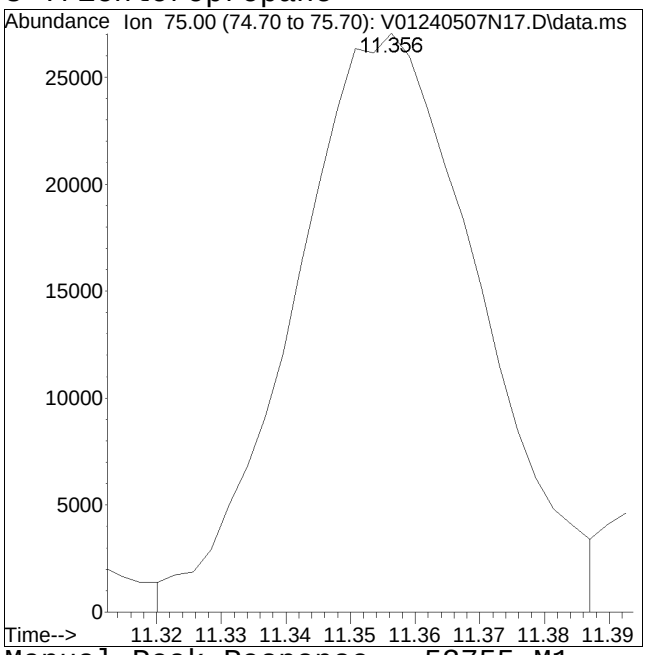
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2024\240507ICAL\QMethod : V101_240507N_8260.m
Data File : V01240507N17.D Operator : VOA101:PID
Date Inj'd : 5/8/2024 1:01 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 5/8/2024 10:58 am

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 50007 Manual Peak Response = 53755 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Relative Error Report VOA 101

Method Path : K:\VOA101\2024\240507ICAL\
Method File : V101_240507N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 08 10:48:58 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
17	TP Acetone	L	ug/L	10.0	9.788	-2.1	2.00	1.961	-1.9

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
17	TP Acetone	Linear	0.999650	0.000000	0.0390733	0.0141012

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 06/18/24 19:04		
Lab File ID	: V01240618Q01	**Init. Calib. Date(s)**	: 05/07/24	05/07/24	
Sample No	: WG1936583-2	**Init. Calib. Times**	: 18:55	22:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	81	0
Dichlorodifluoromethane	0.3	0.282	-	6	20	73	0
Chloromethane	0.294	0.247	-	16	20	68	0
Vinyl chloride	0.232	0.256	-	-10.3	20	86	0
Bromomethane	0.153	0.043	-	71.9*	20	26	0
Chloroethane	0.141	0.148	-	-5	20	86	0
Trichlorofluoromethane	0.37	0.383	-	-3.5	20	82	0
Ethyl ether	0.089	0.091	-	-2.2	20	84	0
1,1-Dichloroethene	0.188	0.186	-	1.1	20	84	0
Carbon disulfide	0.566	0.578	-	-2.1	20	86	0
Freon-113	0.199	0.211	-	-6	20	85	0
Acrolein	0.027	0.021	-	22.2*	20	66	0
Methylene chloride	0.247	0.26	-	-5.3	20	91	0
Acetone	10	10.964	-	-9.6	20	89	0
trans-1,2-Dichloroethene	0.226	0.232	-	-2.7	20	84	0
Methyl acetate	0.1	0.115	-	-15	20	105	0
Methyl tert-butyl ether	0.536	0.515	-	3.9	20	78	0
tert-Butyl alcohol	0.00994	0.01338	-	-34.6*	20	125	0
Diisopropyl ether	0.754	0.729	-	3.3	20	78	0
1,1-Dichloroethane	0.432	0.466	-	-7.9	20	86	0
Halothane	0.168	0.181	-	-7.7	20	87	0
Acrylonitrile	0.044	0.047	-	-6.8	20	89	.01
Ethyl tert-butyl ether	0.664	0.626	-	5.7	20	76	0
Vinyl acetate	0.278	0.455	-	-63.7*	20	135	0
cis-1,2-Dichloroethene	0.251	0.258	-	-2.8	20	83	0
2,2-Dichloropropane	0.349	0.315	-	9.7	20	72	0
Bromochloromethane	0.111	0.119	-	-7.2	20	85	0
Cyclohexane	0.375	0.397	-	-5.9	20	83	0
Chloroform	0.425	0.479	-	-12.7	20	94	0
Ethyl acetate	0.146	0.146	-	0	20	81	0
Carbon tetrachloride	0.34	0.391	-	-15	20	92	0
Tetrahydrofuran	0.043	0.047	-	-9.3	20	87	0
Dibromofluoromethane	0.269	0.274	-	-1.9	20	82	0
1,1,1-Trichloroethane	0.381	0.429	-	-12.6	20	90	0
2-Butanone	0.058	0.07	-	-20.7*	20	107	0
1,1-Dichloropropene	0.318	0.34	-	-6.9	20	85	0
Benzene	0.914	0.999	-	-9.3	20	88	0
tert-Amyl methyl ether	0.577	0.544	-	5.7	20	76	0
1,2-Dichloroethane-d4	0.309	0.33	-	-6.8	20	89	0
1,2-Dichloroethane	0.297	0.333	-	-12.1	20	90	0
Methyl cyclohexane	0.374	0.41	-	-9.6	20	88	0
Trichloroethene	0.269	0.273	-	-1.5	20	83	0
Dibromomethane	0.131	0.146	-	-11.5	20	90	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 06/18/24 19:04		
Lab File ID	: V01240618Q01	**Init. Calib. Date(s)**	: 05/07/24	05/07/24	
Sample No	: WG1936583-2	**Init. Calib. Times**	: 18:55	22:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.235	0.24	-	-2.1	20	83	0
Bromodichloromethane	0.333	0.352	-	-5.7	20	87	0
1,4-Dioxane	0.00082	0.00143*	-	-74.4*	20	129	0
cis-1,3-Dichloropropene	0.364	0.365	-	-0.3	20	81	0
Chlorobenzene-d5	1	1	-	0	20	81	0
Toluene-d8	1.304	1.315	-	-0.8	20	81	0
Toluene	0.763	0.836	-	-9.6	20	88	0
4-Methyl-2-pentanone	0.07	0.066	-	5.7	20	79	0
Tetrachloroethene	0.352	0.343	-	2.6	20	79	0
trans-1,3-Dichloropropene	0.418	0.422	-	-1	20	81	0
Ethyl methacrylate	0.273	0.256	-	6.2	20	75	0
1,1,2-Trichloroethane	0.194	0.222	-	-14.4	20	92	0
Chlorodibromomethane	0.302	0.31	-	-2.6	20	85	0
1,3-Dichloropropane	0.395	0.437	-	-10.6	20	89	0
1,2-Dibromoethane	0.22	0.242	-	-10	20	89	0
2-Hexanone	0.131	0.114	-	13	20	78	0
Chlorobenzene	0.84	0.893	-	-6.3	20	85	0
Ethylbenzene	1.489	1.649	-	-10.7	20	88	0
1,1,1,2-Tetrachloroethane	0.315	0.328	-	-4.1	20	84	0
p/m Xylene	0.573	0.61	-	-6.5	20	86	0
o Xylene	0.548	0.569	-	-3.8	20	83	0
Styrene	0.894	0.941	-	-5.3	20	85	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	82	0
Bromoform	0.319	0.316	-	0.9	20	84	0
Isopropylbenzene	2.535	2.734	-	-7.9	20	86	0
4-Bromofluorobenzene	0.866	0.876	-	-1.2	20	82	0
Bromobenzene	0.626	0.624	-	0.3	20	80	0
n-Propylbenzene	2.952	3.417	-	-15.8	20	92	0
1,4-Dichlorobutane	0.603	0.665	-	-10.3	20	90	0
1,1,2,2-Tetrachloroethane	0.405	0.539	-	-33.1*	20	109	0
4-Ethyltoluene	2.423	2.654	-	-9.5	20	88	0
2-Chlorotoluene	1.741	1.967	-	-13	20	91	0
1,3,5-Trimethylbenzene	2.097	2.319	-	-10.6	20	90	0
1,2,3-Trichloropropane	0.358	0.398	-	-11.2	20	91	0
trans-1,4-Dichloro-2-buten	0.12	0.118	-	1.7	20	79	0
4-Chlorotoluene	1.786	1.975	-	-10.6	20	89	0
tert-Butylbenzene	1.755	1.888	-	-7.6	20	88	0
1,2,4-Trimethylbenzene	2.051	2.248	-	-9.6	20	89	0
sec-Butylbenzene	2.514	2.799	-	-11.3	20	91	0
p-Isopropyltoluene	2.153	2.282	-	-6	20	87	0
1,3-Dichlorobenzene	1.147	1.19	-	-3.7	20	85	0
1,4-Dichlorobenzene	1.168	1.192	-	-2.1	20	85	0
p-Diethylbenzene	1.211	1.244	-	-2.7	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 06/18/24 19:04		
Lab File ID	: V01240618Q01	**Init. Calib. Date(s)**	: 05/07/24	05/07/24	
Sample No	: WG1936583-2	**Init. Calib. Times**	: 18:55	22:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.776	2.02	-	-13.7	20	93	0
1,2-Dichlorobenzene	1.032	1.07	-	-3.7	20	84	0
1,2,4,5-Tetramethylbenzene	1.77	1.628	-	8	20	76	0
1,2-Dibromo-3-chloropropan	0.061	0.063	-	-3.3	20	86	0
1,3,5-Trichlorobenzene	0.731	0.672	-	8.1	20	77	0
Hexachlorobutadiene	0.284	0.282	-	0.7	20	83	0
1,2,4-Trichlorobenzene	0.61	0.52	-	14.8	20	72	0
Naphthalene	1.071	0.925	-	13.6	20	71	0
1,2,3-Trichlorobenzene	0.475	0.412	-	13.3	20	72	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240618Q\
Data File : V0124061 8Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-2
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	81	0.00
2	TP	Dichlorodifluoromethane	0.300	0.282	6.0	73	0.00
3	TP	Chloromethane	0.294	0.247	16.0	68	0.00
4	TC	Vinyl chloride	0.232	0.256	-10.3	86	0.00
5	TP	Bromomethane	0.153	0.043	71.9#	26#	0.00
6	TP	Chloroethane	0.141	0.148	-5.0	86	0.00
7	TP	Trichlorofluoromethane	0.370	0.383	-3.5	82	0.00
8	TP	Ethyl ether	0.089	0.091	-2.2	84	0.00
10	TC	1,1-Dichloroethene	0.188	0.186	1.1	84	0.00
11	TP	Carbon disulfide	0.566	0.578	-2.1	86	0.00
12	TP	Freon-113	0.199	0.211	-6.0	85	0.00
14	TP	Acrolein	0.027	0.021	22.2#	66	0.00
15	TP	Methylene chloride	0.247	0.260	-5.3	91	0.00
17	TP	Acetone	* 10.000	10.964	-9.6	89	0.00
18	TP	trans-1,2-Dichloroethene	0.226	0.232	-2.7	84	0.00
19	TP	Methyl acetate	0.100	0.115	-15.0	105	0.00
20	TP	Methyl tert-butyl ether	0.536	0.515	3.9	78	0.00
21	TP	tert-Butyl alcohol	0.00994	0.01338	-34.6#	125	0.00
22	TP	Diisopropyl ether	0.754	0.729	3.3	78	0.00
23	TP	1,1-Dichloroethane	0.432	0.466	-7.9	86	0.00
24	TP	Halothane	0.168	0.181	-7.7	87	0.00
25	TP	Acrylonitrile	0.044	0.047	-6.8	89	0.01
26	TP	Ethyl tert-butyl ether	0.664	0.626	5.7	76	0.00
27	TP	Vinyl acetate	0.278	0.455	-63.7#	135	0.00
28	TP	cis-1,2-Dichloroethene	0.251	0.258	-2.8	83	0.00
29	TP	2,2-Dichloropropane	0.349	0.315	9.7	72	0.00
30	TP	Bromochloromethane	0.111	0.119	-7.2	85	0.00
31	TP	Cyclohexane	0.375	0.397	-5.9	83	0.00
32	TC	Chloroform	0.425	0.479	-12.7	94	0.00
33	TP	Ethyl acetate	0.146	0.146	0.0	81	0.00
34	TP	Carbon tetrachloride	0.340	0.391	-15.0	92	0.00
35	TP	Tetrahydrofuran	0.043	0.047	-9.3	87	0.00
36	S	Dibromofluoromethane	0.269	0.274	-1.9	82	0.00
37	TP	1,1,1-Trichloroethane	0.381	0.429	-12.6	90	0.00
39	TP	2-Butanone	0.058	0.070	-20.7#	107	0.00
40	TP	1,1-Dichloropropene	0.318	0.340	-6.9	85	0.00
41	TP	Benzene	0.914	0.999	-9.3	88	0.00
42	TP	tert-Amyl methyl ether	0.577	0.544	5.7	76	0.00
43	S	1,2-Dichloroethane-d4	0.309	0.330	-6.8	89	0.00

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-2
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.297	0.333	-12.1	90	0.00
47	TP	Methyl cyclohexane	0.374	0.410	-9.6	88	0.00
48	TP	Trichloroethene	0.269	0.273	-1.5	83	0.00
50	TP	Dibromomethane	0.131	0.146	-11.5	90	0.00
51	TC	1,2-Dichloropropane	0.235	0.240	-2.1	83	0.00
54	TP	Bromodichloromethane	0.333	0.352	-5.7	87	0.00
57	TP	1,4-Dioxane	0.00082	0.00143#	-74.4#	129	0.00
58	TP	cis-1,3-Dichloropropene	0.364	0.365	-0.3	81	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00
60	S	Toluene-d8	1.304	1.315	-0.8	81	0.00
61	TC	Toluene	0.763	0.836	-9.6	88	0.00
62	TP	4-Methyl-2-pentanone	0.070	0.066	5.7	79	0.00
63	TP	Tetrachloroethene	0.352	0.343	2.6	79	0.00
65	TP	trans-1,3-Dichloropropene	0.418	0.422	-1.0	81	0.00
67	TP	Ethyl methacrylate	0.273	0.256	6.2	75	0.00
68	TP	1,1,2-Trichloroethane	0.194	0.222	-14.4	92	0.00
69	TP	Chlorodibromomethane	0.302	0.310	-2.6	85	0.00
70	TP	1,3-Dichloropropane	0.395	0.437	-10.6	89	0.00
71	TP	1,2-Dibromoethane	0.220	0.242	-10.0	89	0.00
72	TP	2-Hexanone	0.131	0.114	13.0	78	0.00
73	TP	Chlorobenzene	0.840	0.893	-6.3	85	0.00
74	TC	Ethylbenzene	1.489	1.649	-10.7	88	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.315	0.328	-4.1	84	0.00
76	TP	p/m Xylene	0.573	0.610	-6.5	86	0.00
77	TP	o Xylene	0.548	0.569	-3.8	83	0.00
78	TP	Styrene	0.894	0.941	-5.3	85	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00
80	TP	Bromoform	0.319	0.316	0.9	84	0.00
82	TP	Isopropylbenzene	2.535	2.734	-7.9	86	0.00
83	S	4-Bromofluorobenzene	0.866	0.876	-1.2	82	0.00
84	TP	Bromobenzene	0.626	0.624	0.3	80	0.00
85	TP	n-Propylbenzene	2.952	3.417	-15.8	92	0.00
86	TP	1,4-Dichlorobutane	0.603	0.665	-10.3	90	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.405	0.539	-33.1#	109	0.00
88	TP	4-Ethyltoluene	2.423	2.654	-9.5	88	0.00
89	TP	2-Chlorotoluene	1.741	1.967	-13.0	91	0.00
90	TP	1,3,5-Trimethylbenzene	2.097	2.319	-10.6	90	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2024\240618Q\
Data File : V0124061 8Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-2
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane	0.358	0.398	-11.2	91	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.120	0.118	1.7	79	0.00
93 TP	4-Chlorotoluene	1.786	1.975	-10.6	89	0.00
94 TP	tert-Butylbenzene	1.755	1.888	-7.6	88	0.00
97 TP	1,2,4-Trimethylbenzene	2.051	2.248	-9.6	89	0.00
98 TP	sec-Butylbenzene	2.514	2.799	-11.3	91	0.00
99 TP	p-Isopropyltoluene	2.153	2.282	-6.0	87	0.00
100 TP	1,3-Dichlorobenzene	1.147	1.190	-3.7	85	0.00
101 TP	1,4-Dichlorobenzene	1.168	1.192	-2.1	85	0.00
102 TP	p-Diethylbenzene	1.211	1.244	-2.7	84	0.00
103 TP	n-Butylbenzene	1.776	2.020	-13.7	93	0.00
104 TP	1,2-Dichlorobenzene	1.032	1.070	-3.7	84	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.770	1.628	8.0	76	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.061	0.063	-3.3	86	0.00
107 TP	1,3,5-Trichlorobenzene	0.731	0.672	8.1	77	0.00
108 TP	Hexachlorobutadiene	0.284	0.282	0.7	83	0.00
109 TP	1,2,4-Trichlorobenzene	0.610	0.520	14.8	72	0.00
110 TP	Naphthalene	1.071	0.925	13.6	71	0.00
111 TP	1,2,3-Trichlorobenzene	0.475	0.412	13.3	72	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-2
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	321325	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 100.00%			
59) Chlorobenzene-d5	9.471	117	238933	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.187	152	136520	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.151	113	88179	10.193	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.93%			
43) 1,2-Dichloroethane-d4	5.667	65	106037	10.692	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.92%			
60) Toluene-d8	7.631	98	314079	10.079	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.79%			
83) 4-Bromofluorobenzene	10.974	95	119617	10.114	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.646	85	90637	9.400	ug/L	99
3) Chloromethane	1.839	50	79439	8.410	ug/L	98
4) Vinyl chloride	1.903	62	82155	11.001	ug/L	99
5) Bromomethane	2.204	94	13702	2.787	ug/L	92
6) Chloroethane	2.315	64	47665	10.496	ug/L	100
7) Trichlorofluoromethane	2.455	101	123035	10.349	ug/L	98
8) Ethyl ether	2.750	74	29116	10.186	ug/L #	91
10) 1,1-Dichloroethene	2.934	96	59720	9.884	ug/L	93
11) Carbon disulfide	2.962	76	185642	10.201	ug/L	99
12) Freon-113	2.968	101	67899	10.607	ug/L	83
14) Acrolein	3.247	56	6852M1	7.984	ug/L	
15) Methylene chloride	3.475	84	83441	10.510	ug/L	96
17) Acetone	3.526	43	18296	10.964	ug/L	97
18) trans-1,2-Dichloroethene	3.626	96	74683	10.264	ug/L	97
19) Methyl acetate	3.640	43	37092	11.528	ug/L	96
20) Methyl tert-butyl ether	3.732	73	165382	9.595	ug/L	94
21) tert-Butyl alcohol	3.827	59	21502	67.340	ug/L	89
22) Diisopropyl ether	4.081	45	234206	9.661	ug/L	95
23) 1,1-Dichloroethane	4.203	63	149586	10.773	ug/L	99
24) Halothane	4.251	117	58056	10.771	ug/L	98
25) Acrylonitrile	4.256	53	15216	10.831	ug/L	98

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-2
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.421	59	201197	9.433	ug/L		97
27) Vinyl acetate	4.432	43	146225	16.374	ug/L	#	86
28) cis-1,2-Dichloroethene	4.716	96	82944	10.296	ug/L		97
29) 2,2-Dichloropropane	4.806	77	101320	9.048	ug/L		95
30) Bromochloromethane	4.903	128	38300	10.735	ug/L		99
31) Cyclohexane	4.909	56	127462	10.583	ug/L		94
32) Chloroform	4.973	83	153898	11.270	ug/L		99
33) Ethyl acetate	5.087	43	46884	9.967	ug/L		96
34) Carbon tetrachloride	5.107	117	125712	11.514	ug/L		99
35) Tetrahydrofuran	5.138	42	14955M1	10.889	ug/L		
37) 1,1,1-Trichloroethane	5.174	97	137879	11.276	ug/L		99
39) 2-Butanone	5.266	43	22565	12.191	ug/L	#	49
40) 1,1-Dichloropropene	5.291	75	109253	10.696	ug/L		99
41) Benzene	5.536	78	320894	10.929	ug/L		99
42) tert-Amyl methyl ether	5.645	73	174769	9.425	ug/L		91
44) 1,2-Dichloroethane	5.737	62	107062	11.213	ug/L		99
47) Methyl cyclohexane	6.122	83	131701	10.959	ug/L		97
48) Trichloroethene	6.127	95	87618	10.148	ug/L		96
50) Dibromomethane	6.565	93	46792	11.096	ug/L		90
51) 1,2-Dichloropropane	6.666	63	77147	10.238	ug/L		95
54) Bromodichloromethane	6.738	83	113217	10.576	ug/L		100
57) 1,4-Dioxane	6.958	88	23050M1	875.495	ug/L		
58) cis-1,3-Dichloropropene	7.424	75	117413	10.041	ug/L		95
61) Toluene	7.689	92	199630	10.945	ug/L		99
62) 4-Methyl-2-pentanone	8.121	58	15855	9.539	ug/L		88
63) Tetrachloroethene	8.135	166	82054	9.759	ug/L		93
65) trans-1,3-Dichloropropene	8.174	75	100786	10.093	ug/L		94
67) Ethyl methacrylate	8.361	69	61162	9.375	ug/L		93
68) 1,1,2-Trichloroethane	8.356	83	53119	11.459	ug/L		98
69) Chlorodibromomethane	8.570	129	74183	10.277	ug/L		96
70) 1,3-Dichloropropane	8.676	76	104503	11.079	ug/L		99
71) 1,2-Dibromoethane	8.846	107	57704	10.955	ug/L		99
72) 2-Hexanone	9.134	43	27150	8.672	ug/L	#	88
73) Chlorobenzene	9.491	112	213366	10.631	ug/L		98
74) Ethylbenzene	9.527	91	393901	11.074	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.571	131	78414	10.415	ug/L		99
76) p/m Xylene	9.714	106	291411	21.275	ug/L		95
77) o Xylene	10.255	106	271812	20.744	ug/L		94
78) Styrene	10.322	104	449839	21.063	ug/L		97
80) Bromoform	10.349	173	43090	9.899	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-2
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Isopropylbenzene	10.642	105	373194	10.785	ug/L	96
84) Bromobenzene	11.083	156	85143	9.962	ug/L	98
85) n-Propylbenzene	11.125	91	466423	11.574	ug/L	97
86) 1,4-Dichlorobutane	11.144	55	90726	11.016	ug/L	92
87) 1,1,2,2-Tetrachloroethane	11.220	83	73571	13.321	ug/L	99
88) 4-Ethyltoluene	11.253	105	362337	10.953	ug/L	96
89) 2-Chlorotoluene	11.295	91	268518	11.300	ug/L	97
90) 1,3,5-Trimethylbenzene	11.351	105	316576	11.060	ug/L	95
91) 1,2,3-Trichloropropane	11.356	75	54388	11.120	ug/L	99
92) trans-1,4-Dichloro-2-b...	11.409	53	16131	9.841	ug/L	88
93) 4-Chlorotoluene	11.482	91	269630	11.060	ug/L	95
94) tert-Butylbenzene	11.694	119	257797	10.760	ug/L	95
97) 1,2,4-Trimethylbenzene	11.772	105	306847	10.961	ug/L	96
98) sec-Butylbenzene	11.883	105	382166	11.135	ug/L	96
99) p-Isopropyltoluene	12.039	119	311490	10.596	ug/L	96
100) 1,3-Dichlorobenzene	12.109	146	162507	10.381	ug/L	99
101) 1,4-Dichlorobenzene	12.201	146	162747	10.202	ug/L	97
102) p-Diethylbenzene	12.413	119	169818	10.269	ug/L	95
103) n-Butylbenzene	12.472	91	275772	11.372	ug/L	96
104) 1,2-Dichlorobenzene	12.625	146	146134	10.375	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.208	119	222288	9.198	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.403	155	8608	10.316	ug/L	96
107) 1,3,5-Trichlorobenzene	13.437	180	91709	9.194	ug/L	97
108) Hexachlorobutadiene	14.014	225	38468	9.909	ug/L	100
109) 1,2,4-Trichlorobenzene	14.039	180	70965	8.525	ug/L	96
110) Naphthalene	14.332	128	126239	8.637	ug/L	100
111) 1,2,3-Trichlorobenzene	14.499	180	56285	8.683	ug/L	98

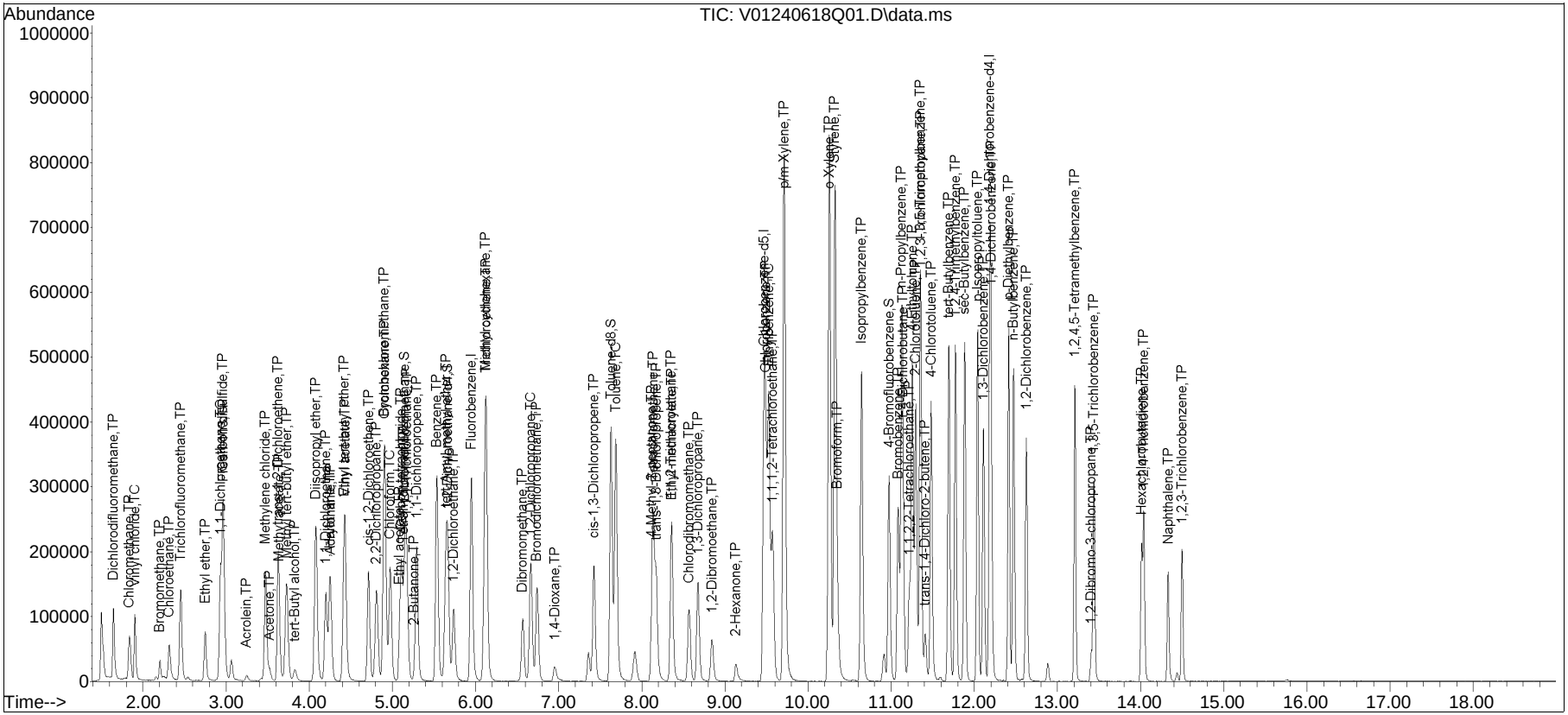
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-2
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

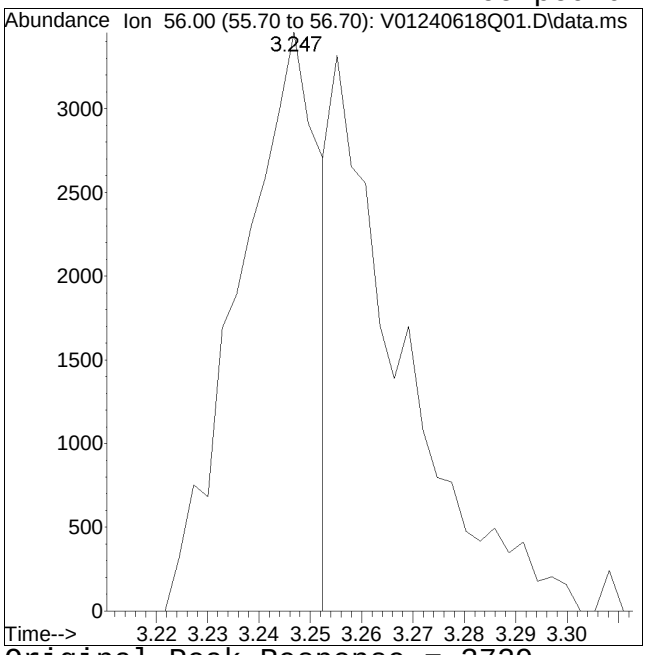
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



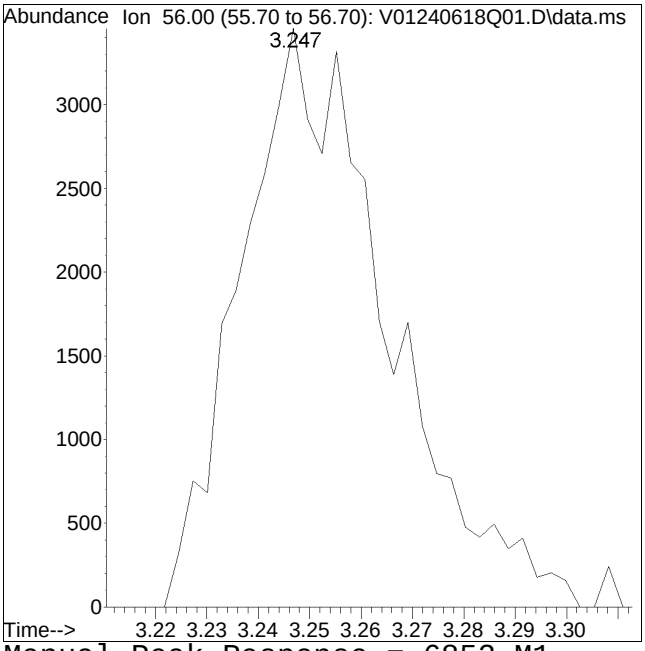
Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q01.D	Operator	: VOA101:LAC
Date Inj'd	: 6/18/2024 7:04 pm	Instrument	: VOA 101
Sample	: WG1936583-2	Quant Date	: 6/18/2024 7:29 pm

Compound #14: Acrolein



Original Peak Response = 3729



Manual Peak Response = 6852 M1

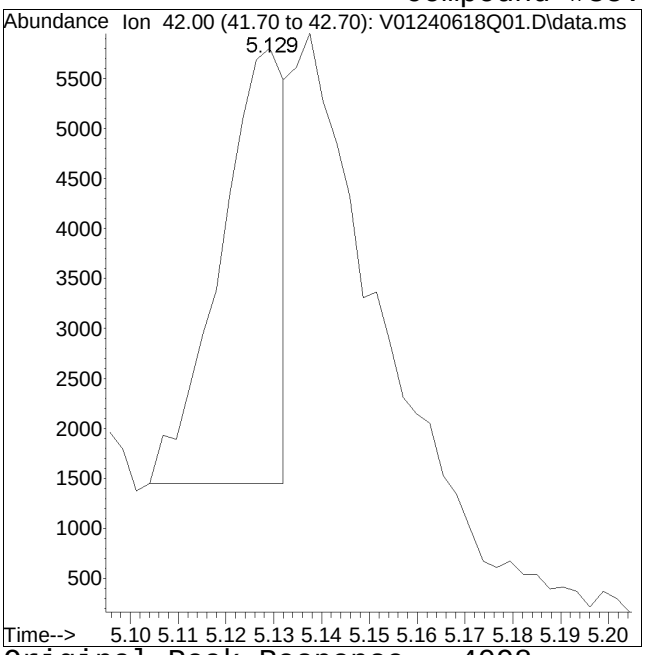
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

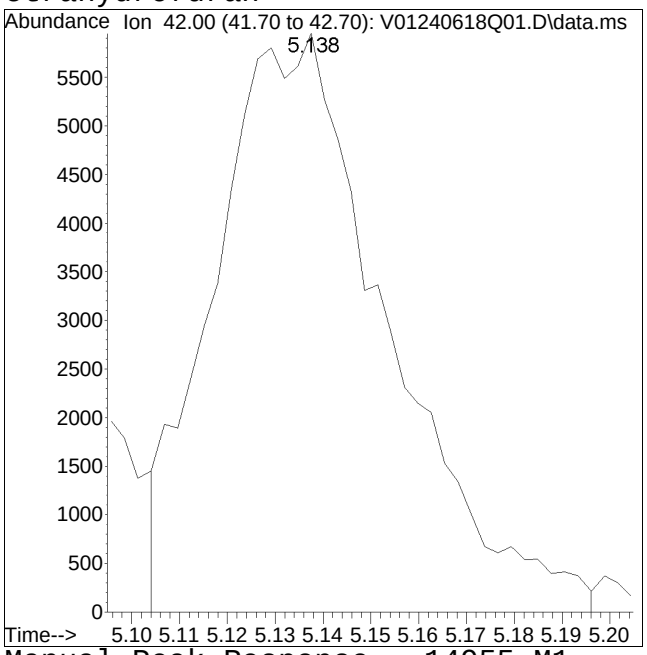
Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Date Inj'd : 6/18/2024 7:04 pm
Sample : WG1936583-2

QMethod : V101_240507N_8260.m
Operator : VOA101:LAC
Instrument : VOA 101
Quant Date : 6/18/2024 7:29 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 4098



Manual Peak Response = 14955 M1

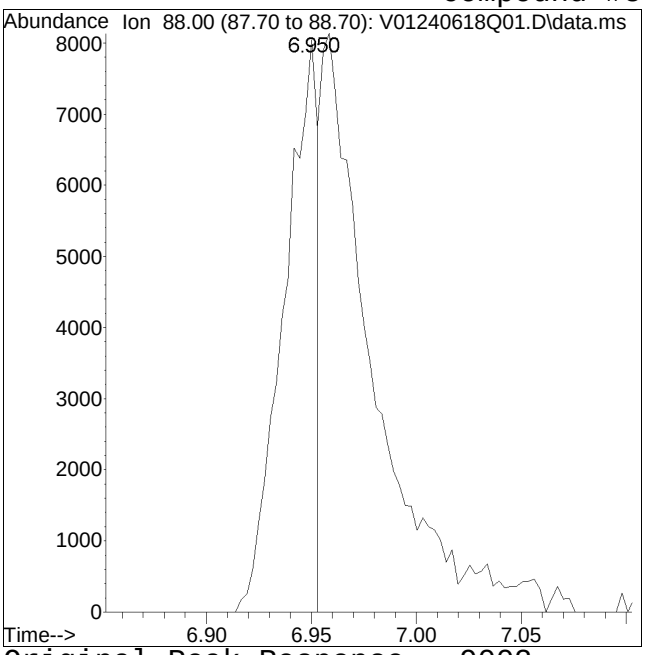
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

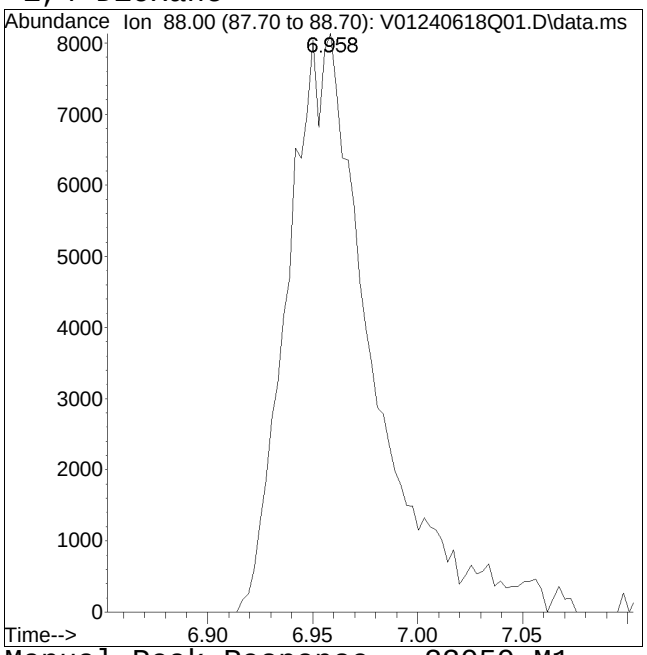
Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Date Inj'd : 6/18/2024 7:04 pm
Sample : WG1936583-2

QMethod : V101_240507N_8260.m
Operator : VOA101:LAC
Instrument : VOA 101
Quant Date : 6/18/2024 7:29 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 9002



Manual Peak Response = 23050 M1

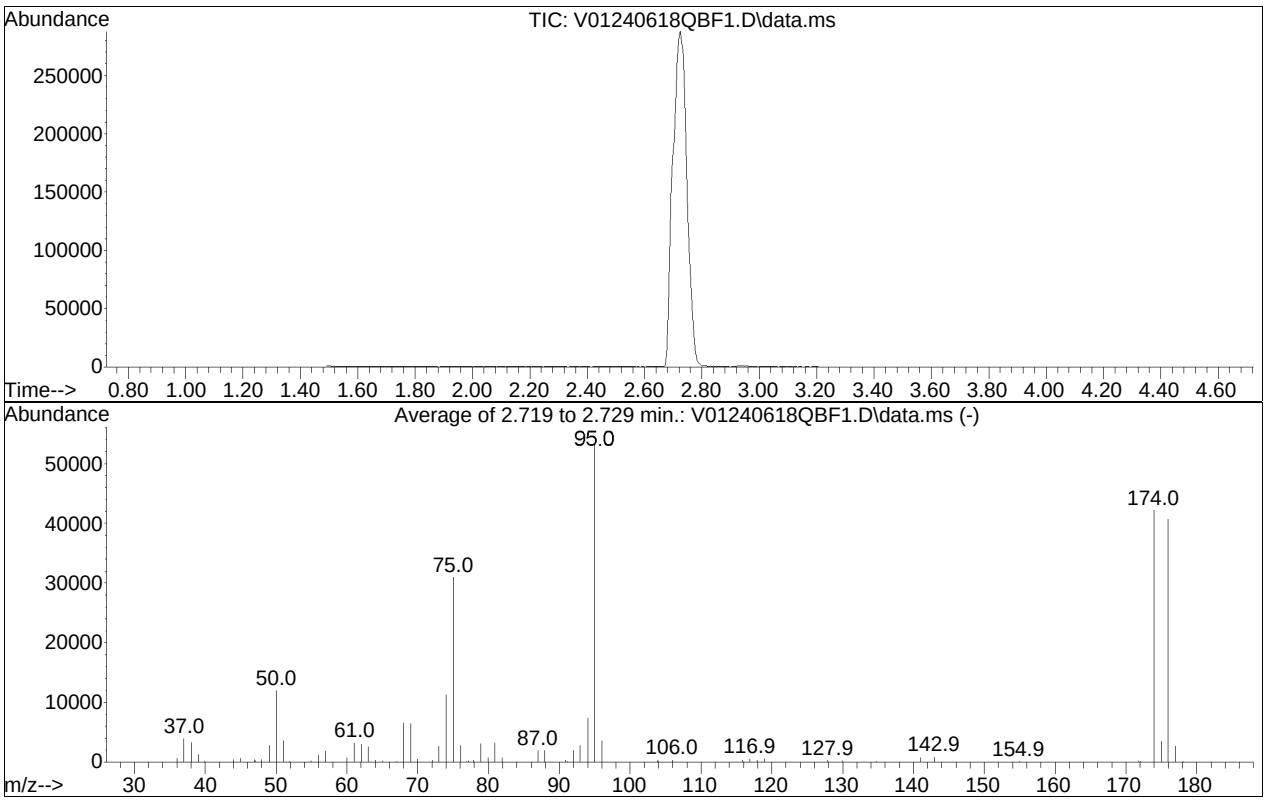
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

BFB

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618QBF1.D
Acq On : 18 Jun 2024 6:44 pm
Operator : VOA101:LAC
Sample : WG1936583-1
Misc : WG1936583
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 08 10:48:58 2024



AutoFind: Scans 235, 236, 237; Background Corrected with Scan 223

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	12015	PASS
75	95	30	60	57.9	30968	PASS
95	95	100	100	100.0	53520	PASS
96	95	5	9	6.7	3587	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.9	42208	PASS
175	174	5	9	8.2	3480	PASS
176	174	95	101	96.3	40659	PASS
177	176	5	9	6.6	2686	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q06.D
Acq On : 18 Jun 2024 9:14 pm
Operator : VOA101:MAG
Sample : WG1936583-5,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 18 21:41:52 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	313887	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 97.69%			
59) Chlorobenzene-d5	9.468	117	232760	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 97.42%			
79) 1,4-Dichlorobenzene-d4	12.187	152	114221	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 83.67%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.154	113	88011	10.414	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.14%			
43) 1,2-Dichloroethane-d4	5.670	65	105782	10.919	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.19%			
60) Toluene-d8	7.636	98	297437	9.798	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.98%			
83) 4-Bromofluorobenzene	10.977	95	101302	10.238	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	1.844	50	54		N.D.	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	2.212	94	37		N.D.	
6) Chloroethane	2.307	64	25		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
11) Carbon disulfide	2.962	76	1102		N.D.	
12) Freon-113	0.000		0		N.D.	
15) Methylene chloride	3.478	84	2514	0.324	ug/L #	56
17) Acetone	3.531	43	2222	Below Cal	#	62
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
19) Methyl acetate	0.000		0		N.D. d	
20) Methyl tert-butyl ether	0.000		0		N.D.	
23) 1,1-Dichloroethane	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	4.795	96	26		N.D.	
30) Bromochloromethane	0.000		0		N.D.	
31) Cyclohexane	0.000		0		N.D.	
32) Chloroform	0.000		0		N.D.	
34) Carbon tetrachloride	0.000		0		N.D.	

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q06.D
Acq On : 18 Jun 2024 9:14 pm
Operator : VOA101:MAG
Sample : WG1936583-5,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 18 21:41:52 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.308	43	26		N.D.	
41) Benzene	5.626	78	30		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.033	95	73		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.689	92	27		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	9.192	43	26		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.479	91	116		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.126	146	45		N.D.	
101) 1,4-Dichlorobenzene	12.204	146	204		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

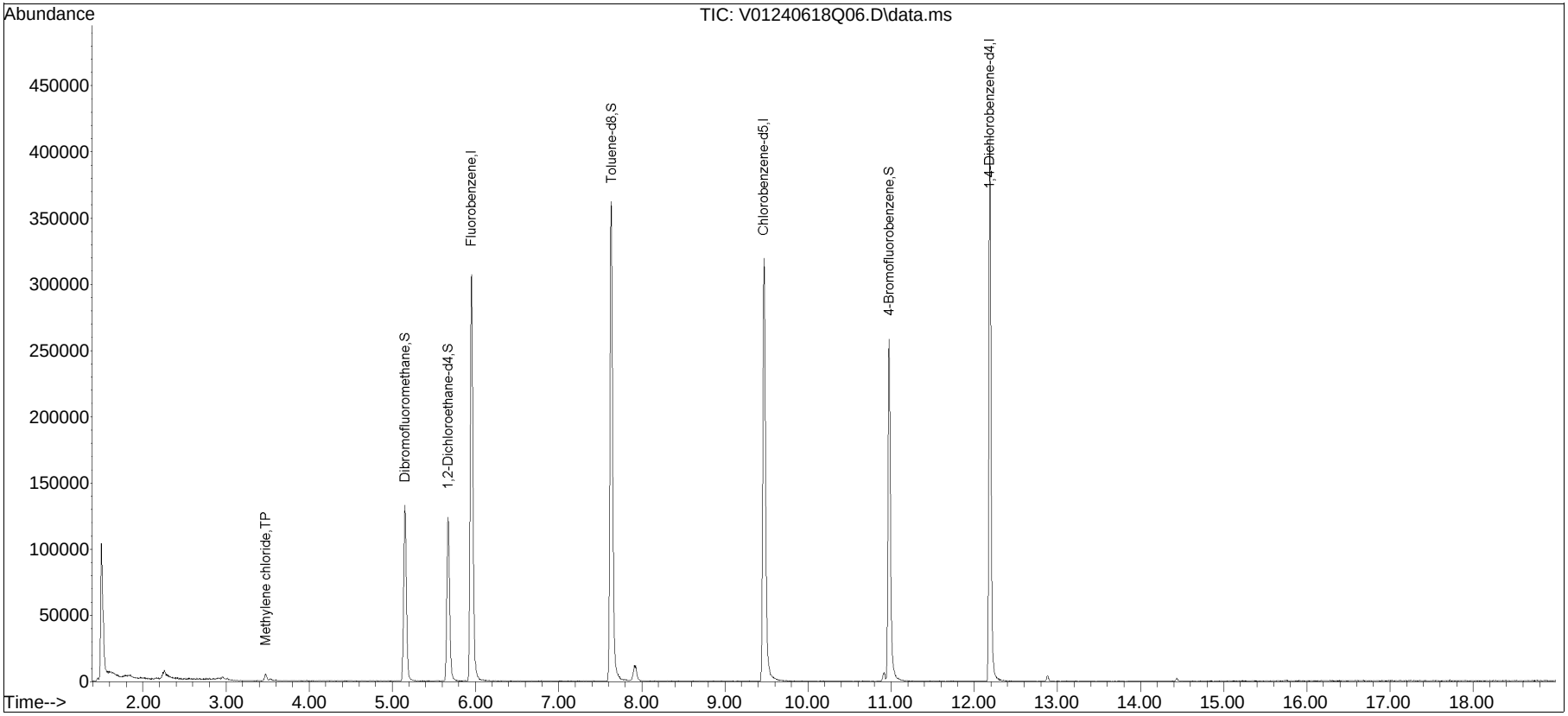
(#) = qualifier out of range (m) = manual integration (+) = signals summed

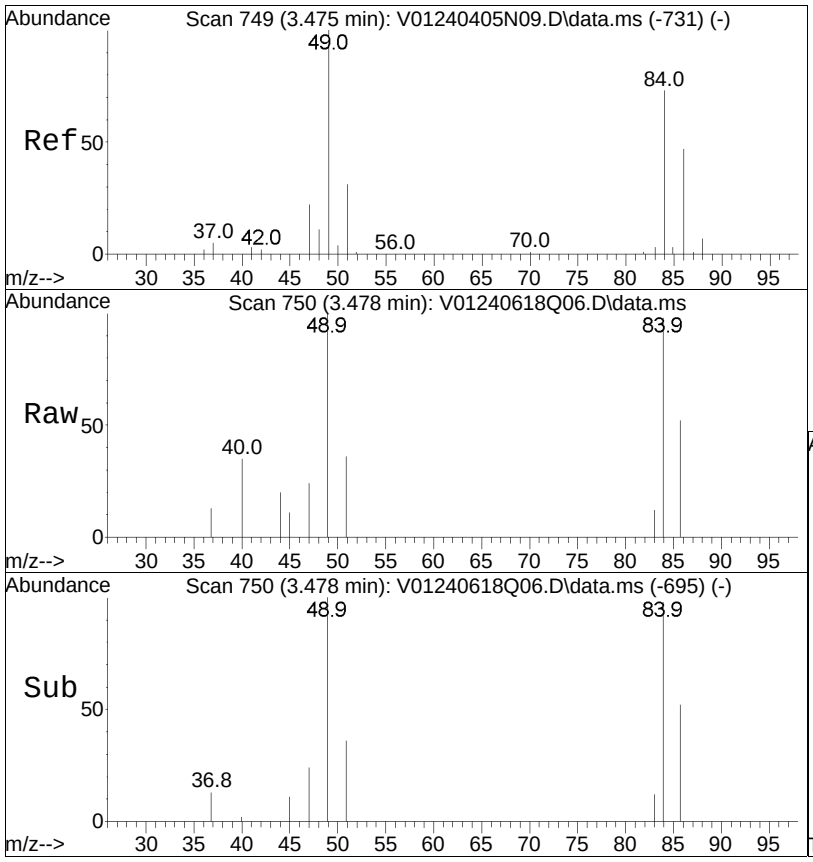
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q06.D
Acq On : 18 Jun 2024 9:14 pm
Operator : VOA101:MAG
Sample : WG1936583-5,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 18 21:41:52 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

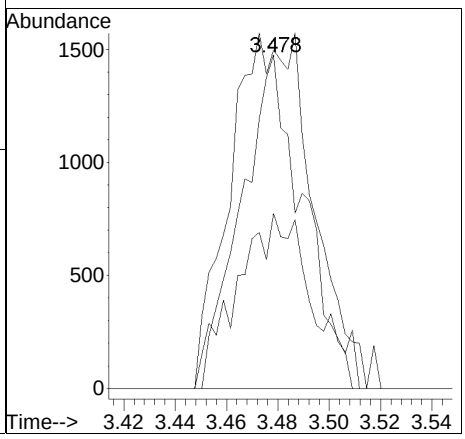




#15
Methylene chloride
Concen: 0.32 ug/L
RT: 3.478 min Scan# 750
Delta R.T. 0.003 min
Lab File: V01240618Q06.D
Acq: 18 Jun 2024 9:14 pm

Tgt Ion: 84 Resp: 2514

Ion	Ratio	Lower	Upper
84	100		
86	28.4	41.7	86.7#
49	86.0	89.1	185.1#



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q06.D	Operator	: VOA101:MAG
Date Inj'd	: 6/18/2024 9:14 pm	Instrument	: VOA 101
Sample	: WG1936583-5,31,10,10	Quant Date	: 6/18/2024 9:40 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-3,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	321325	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 100.00%			
59) Chlorobenzene-d5	9.471	117	238933	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.187	152	136520	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.151	113	88179	10.193	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.93%			
43) 1,2-Dichloroethane-d4	5.667	65	106037	10.692	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.92%			
60) Toluene-d8	7.631	98	314079	10.079	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.79%			
83) 4-Bromofluorobenzene	10.974	95	119617	10.114	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.646	85	90637	9.400	ug/L	99
3) Chloromethane	1.839	50	79439	8.410	ug/L	98
4) Vinyl chloride	1.903	62	82155	11.001	ug/L	99
5) Bromomethane	2.204	94	13702	2.787	ug/L	92
6) Chloroethane	2.315	64	47665	10.496	ug/L	100
7) Trichlorofluoromethane	2.455	101	123035	10.349	ug/L	98
10) 1,1-Dichloroethene	2.934	96	59720	9.884	ug/L	93
11) Carbon disulfide	2.962	76	185642	10.201	ug/L	99
12) Freon-113	2.968	101	67899	10.607	ug/L	83
15) Methylene chloride	3.475	84	83441	10.510	ug/L	96
17) Acetone	3.526	43	18296	10.964	ug/L	97
18) trans-1,2-Dichloroethene	3.626	96	74683	10.264	ug/L	97
19) Methyl acetate	3.640	43	37092	11.528	ug/L	96
20) Methyl tert-butyl ether	3.732	73	165382	9.595	ug/L	94
23) 1,1-Dichloroethane	4.203	63	149586	10.773	ug/L	99
28) cis-1,2-Dichloroethene	4.716	96	82944	10.296	ug/L	97
30) Bromochloromethane	4.903	128	38300	10.735	ug/L	99
31) Cyclohexane	4.909	56	127462	10.583	ug/L	94
32) Chloroform	4.973	83	153898	11.270	ug/L	99
34) Carbon tetrachloride	5.107	117	125712	11.514	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-3,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.174	97	137879	11.276	ug/L		99
39) 2-Butanone	5.266	43	22565	12.191	ug/L	#	49
41) Benzene	5.536	78	320894	10.929	ug/L		99
44) 1,2-Dichloroethane	5.737	62	107062	11.213	ug/L		99
47) Methyl cyclohexane	6.122	83	131701	10.959	ug/L		97
48) Trichloroethene	6.127	95	87618	10.148	ug/L		96
51) 1,2-Dichloropropane	6.666	63	77147	10.238	ug/L		95
54) Bromodichloromethane	6.738	83	113217	10.576	ug/L		100
58) cis-1,3-Dichloropropene	7.424	75	117413	10.041	ug/L		95
61) Toluene	7.689	92	199630	10.945	ug/L		99
62) 4-Methyl-2-pentanone	8.121	58	15855	9.539	ug/L		88
63) Tetrachloroethene	8.135	166	82054	9.759	ug/L		93
65) trans-1,3-Dichloropropene	8.174	75	100786	10.093	ug/L		94
68) 1,1,2-Trichloroethane	8.356	83	53119	11.459	ug/L		98
69) Chlorodibromomethane	8.570	129	74183	10.277	ug/L		96
71) 1,2-Dibromoethane	8.846	107	57704	10.955	ug/L		99
72) 2-Hexanone	9.134	43	27150	8.672	ug/L	#	88
73) Chlorobenzene	9.491	112	213366	10.631	ug/L		98
74) Ethylbenzene	9.527	91	393901	11.074	ug/L		98
76) p/m Xylene	9.714	106	291411	21.275	ug/L		95
77) o Xylene	10.255	106	271812	20.744	ug/L		94
78) Styrene	10.322	104	449839	21.063	ug/L		97
80) Bromoform	10.349	173	43090	9.899	ug/L		99
82) Isopropylbenzene	10.642	105	373194	10.785	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.220	83	73571	13.321	ug/L		99
100) 1,3-Dichlorobenzene	12.109	146	162507	10.381	ug/L		99
101) 1,4-Dichlorobenzene	12.201	146	162747	10.202	ug/L		97
104) 1,2-Dichlorobenzene	12.625	146	146134	10.375	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.403	155	8608	10.316	ug/L		96
109) 1,2,4-Trichlorobenzene	14.039	180	70965	8.525	ug/L		96
111) 1,2,3-Trichlorobenzene	14.499	180	56285	8.683	ug/L		98

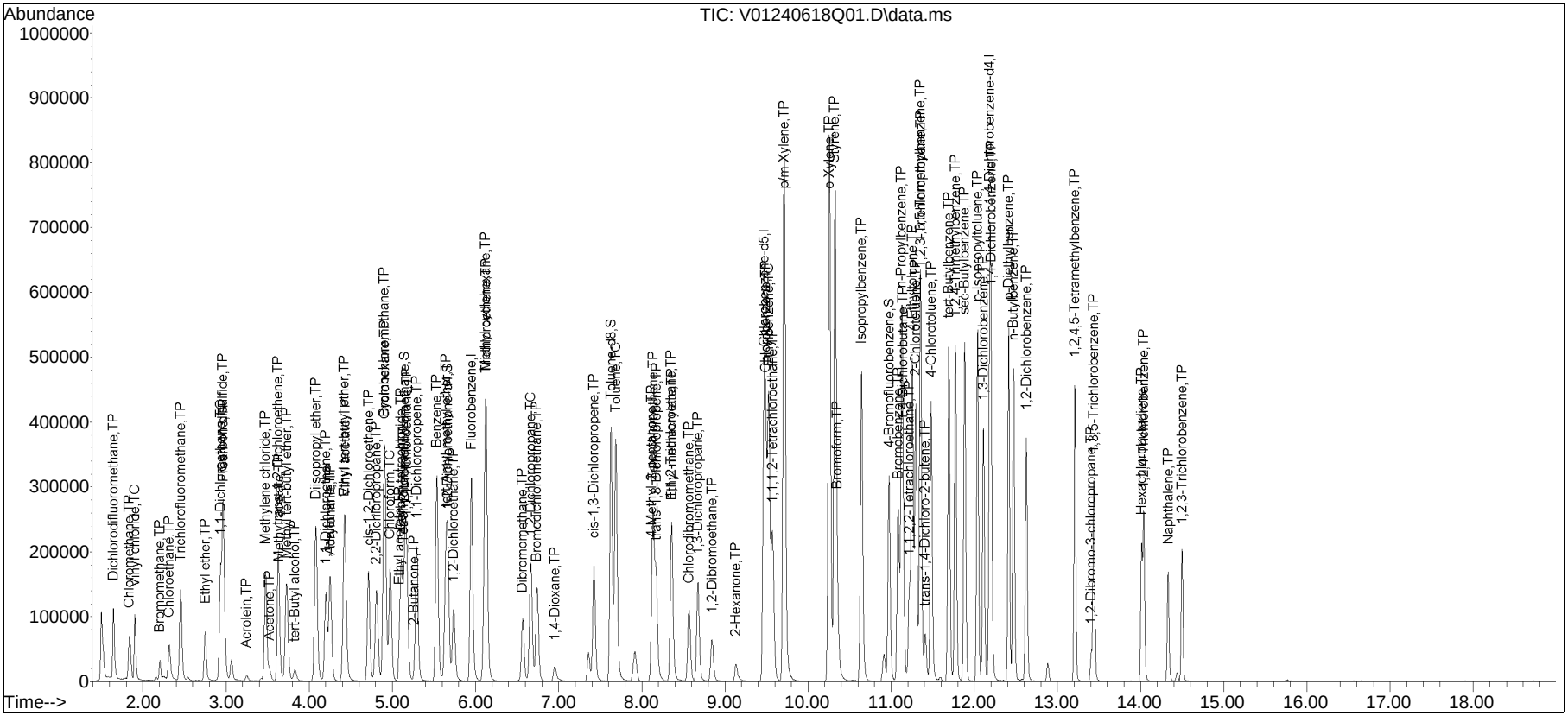
(#) = qualifier out of range (m) = manual integration (+) = signals summed

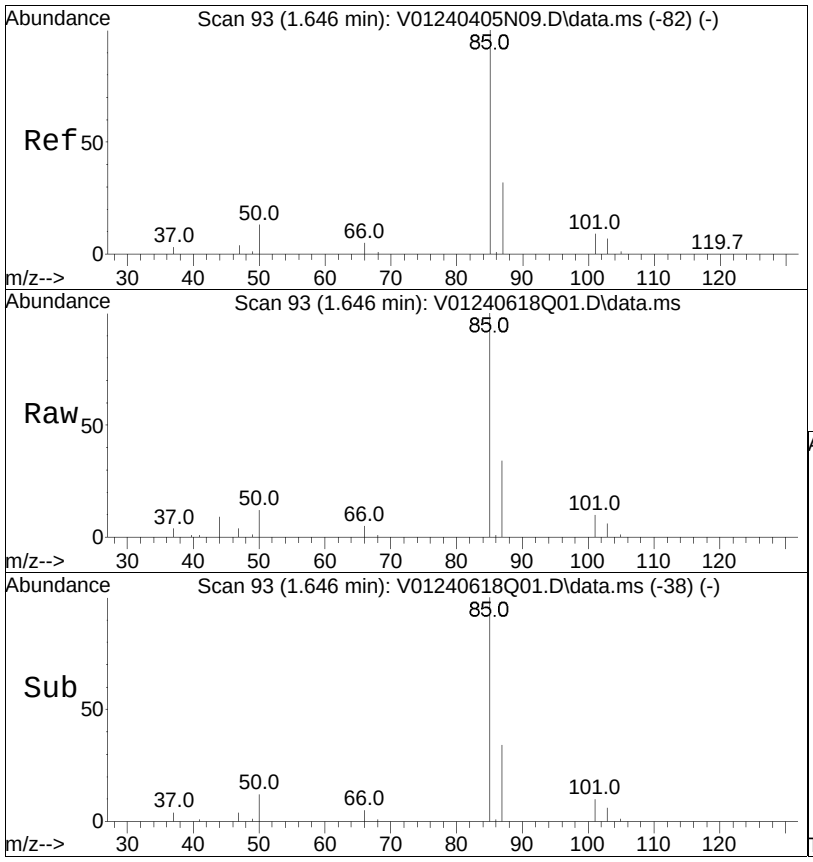
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q01.D
Acq On : 18 Jun 2024 7:04 pm
Operator : VOA101:LAC
Sample : WG1936583-3,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 19:29:39 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

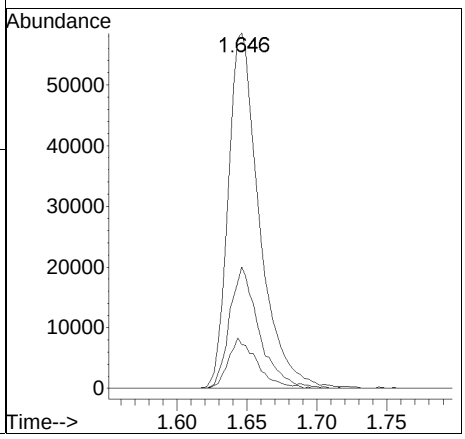


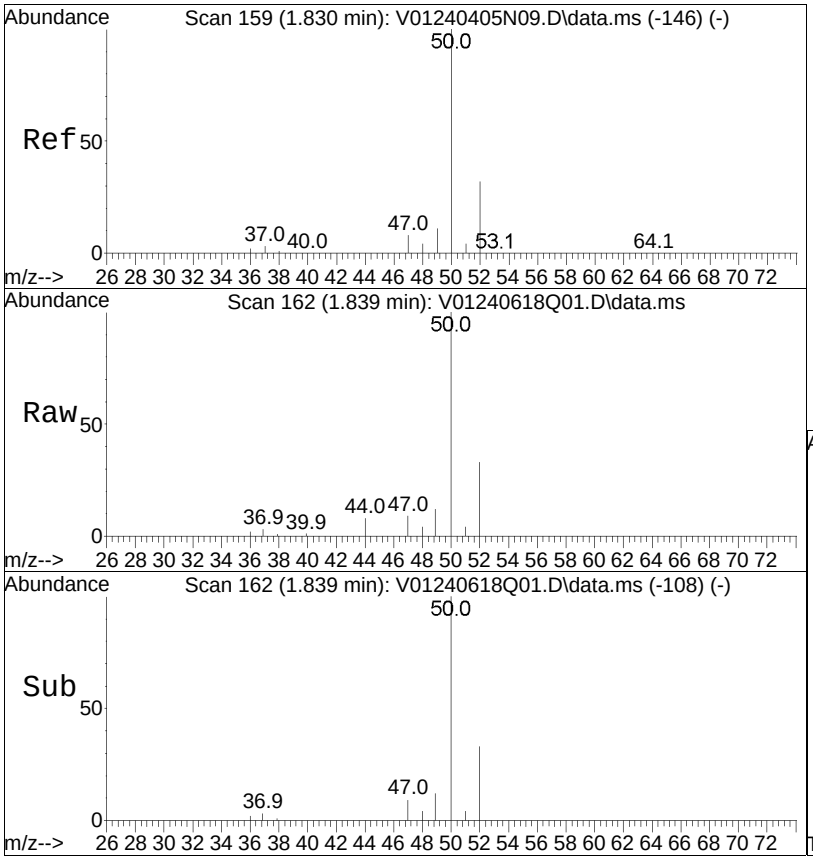


#2
Dichlorodifluoromethane
Concen: 9.40 ug/L
RT: 1.646 min Scan# 93
Delta R.T. 0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 85 Resp: 90637

Ion	Ratio	Lower	Upper
85	100		
87	32.4	20.9	43.5
50	13.1	9.1	18.9

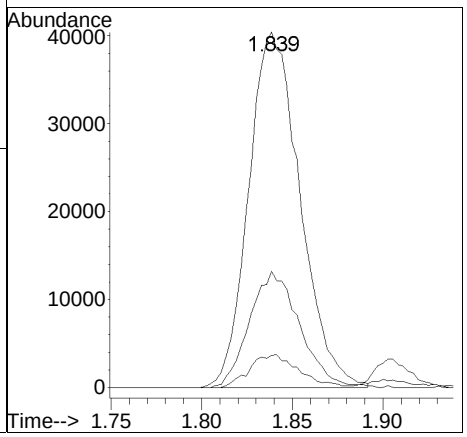


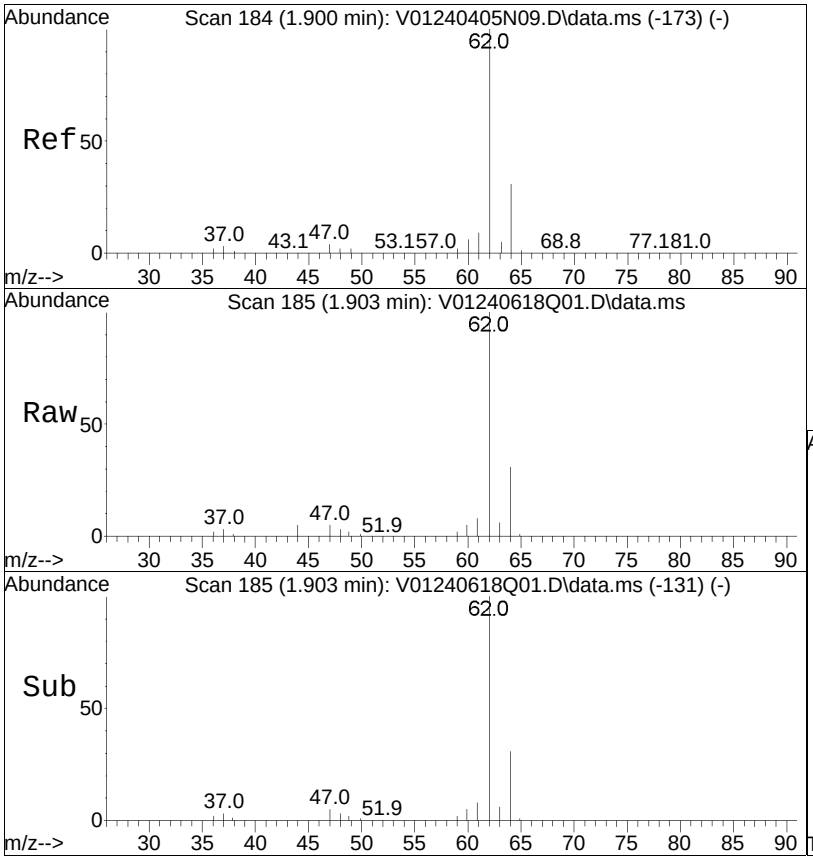


#3
Chloromethane
Concen: 8.41 ug/L
RT: 1.839 min Scan# 162
Delta R.T. 0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 50 Resp: 79439

Ion	Ratio	Lower	Upper
50	100		
52	31.9	12.8	52.8
47	8.9	0.0	28.3

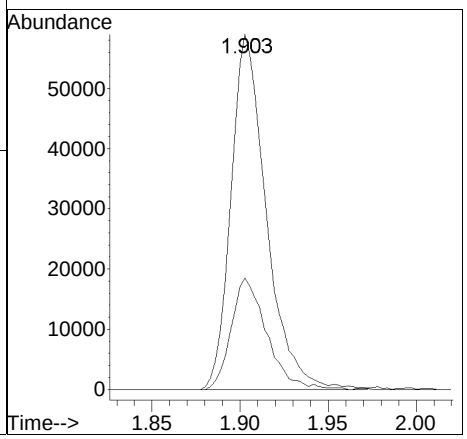


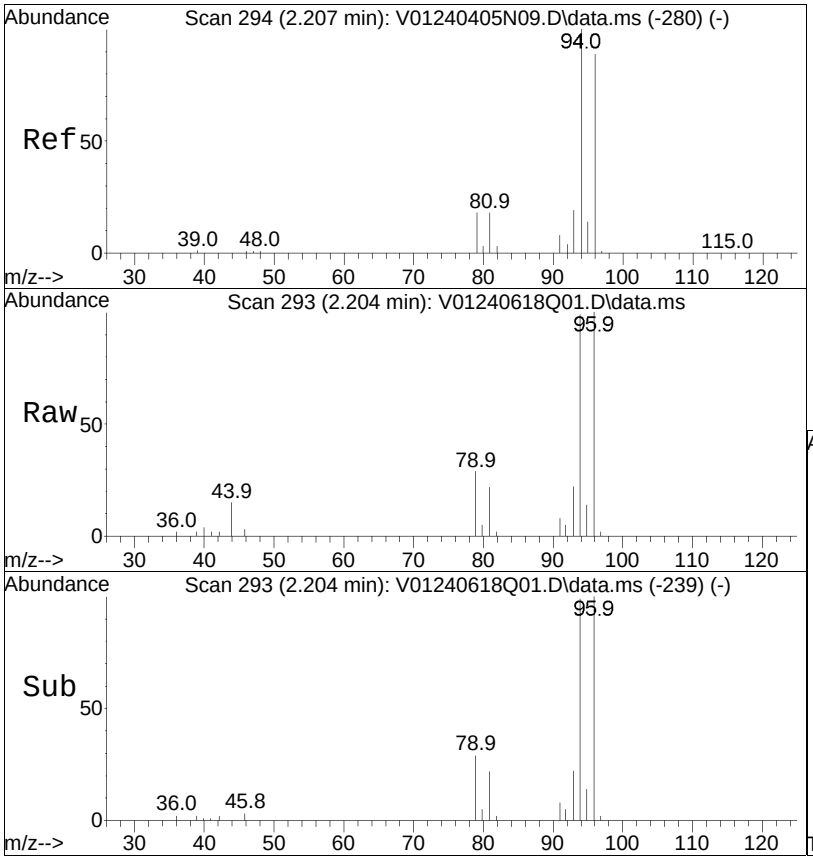


#4
Vinyl chloride
Concen: 11.00 ug/L
RT: 1.903 min Scan# 185
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 62 Resp: 82155

Ion	Ratio	Lower	Upper
62	100		
64	31.6	10.8	50.8

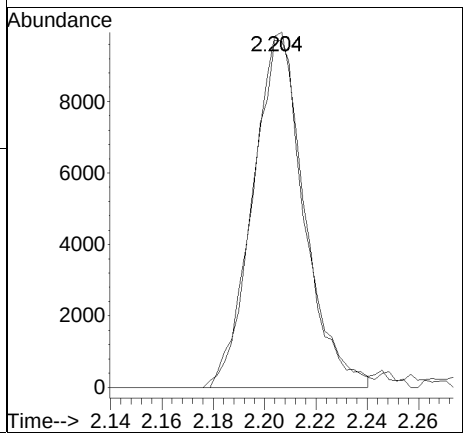


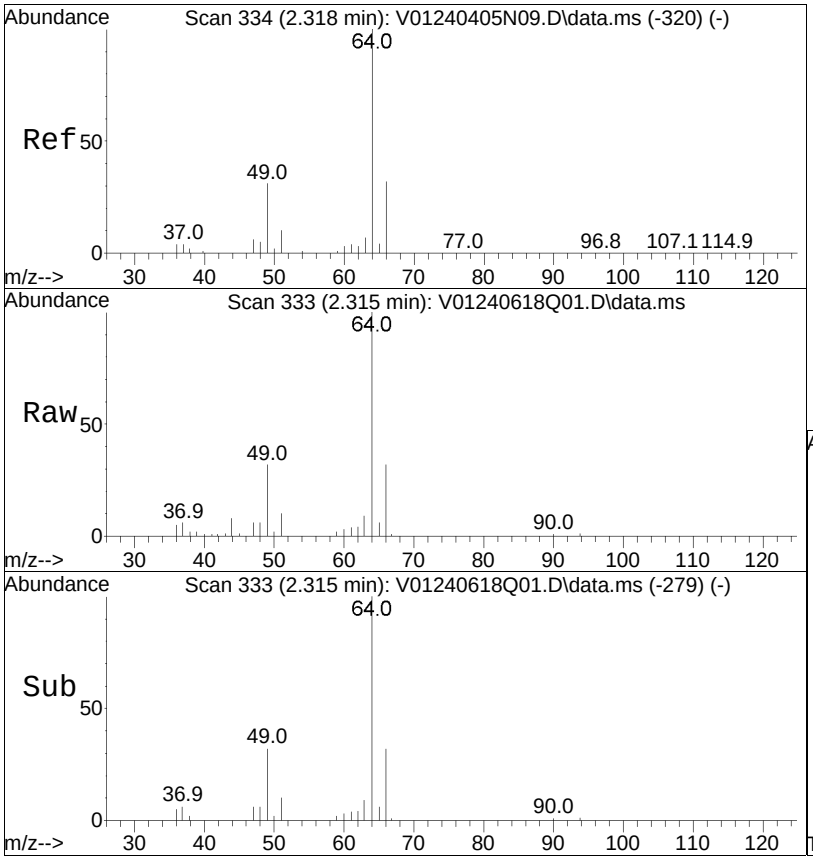


#5
Bromomethane
Concen: 2.79 ug/L
RT: 2.204 min Scan# 293
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 94 Resp: 13702

Ion	Ratio	Lower	Upper
94	100		
96	101.2	73.6	113.6

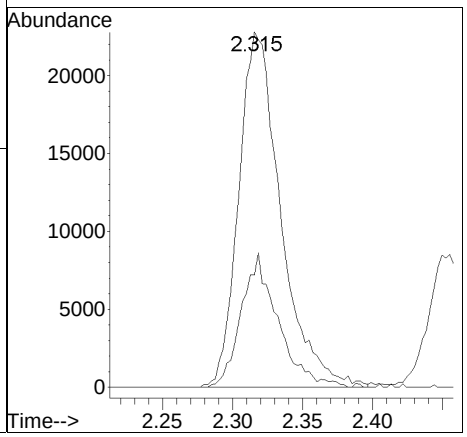


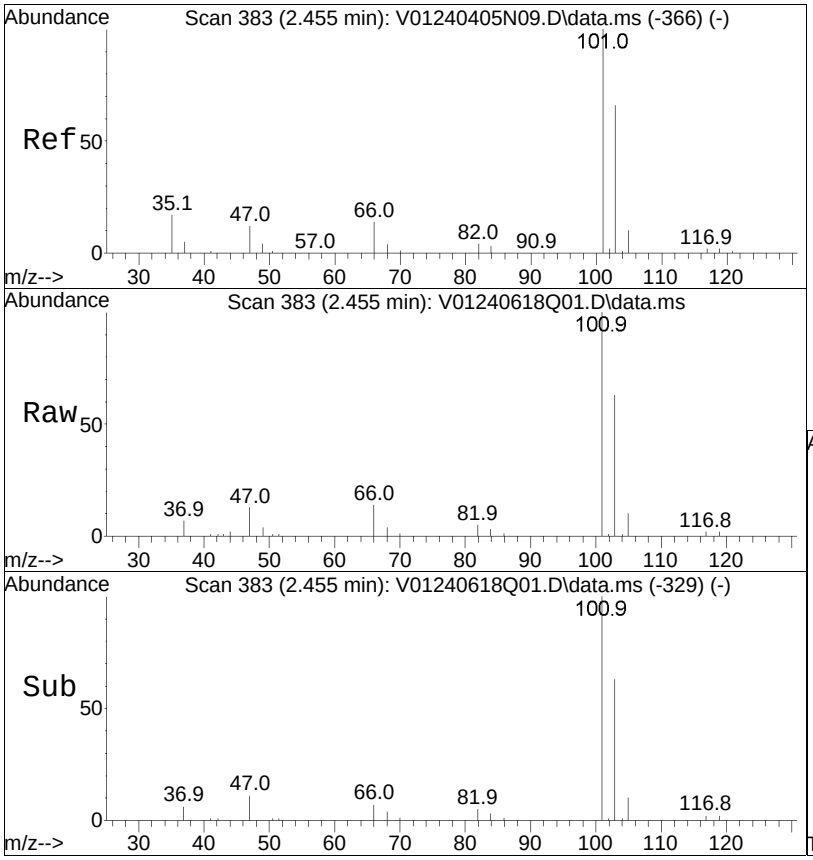


#6
Chloroethane
Concen: 10.50 ug/L
RT: 2.315 min Scan# 333
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 64 Resp: 47665

Ion	Ratio	Lower	Upper
64	100		
66	33.0	12.7	52.7

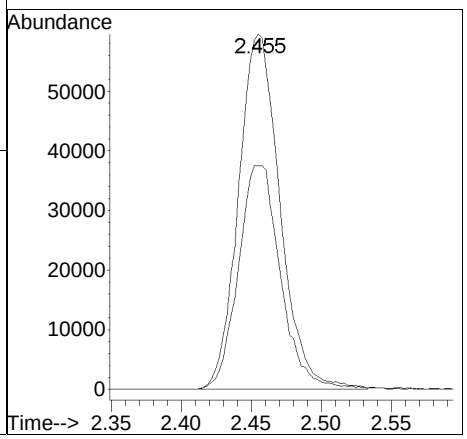


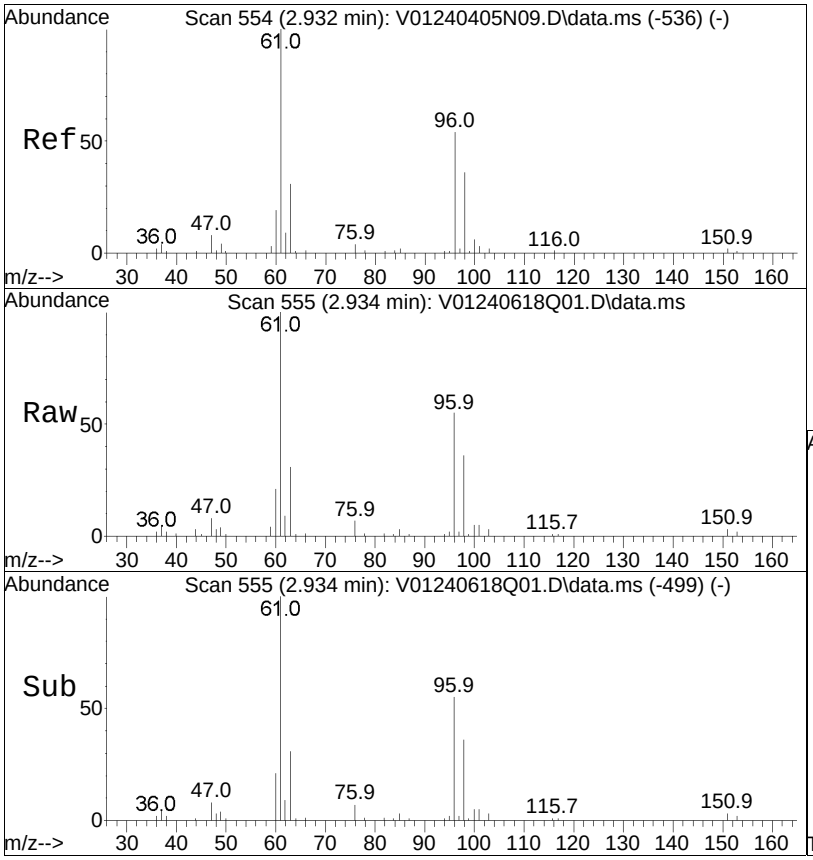


#7
Trichlorofluoromethane
Concen: 10.35 ug/L
RT: 2.455 min Scan# 383
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:101 Resp: 123035

Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.3	78.5

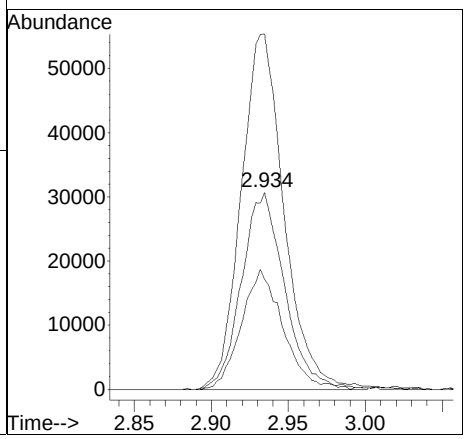


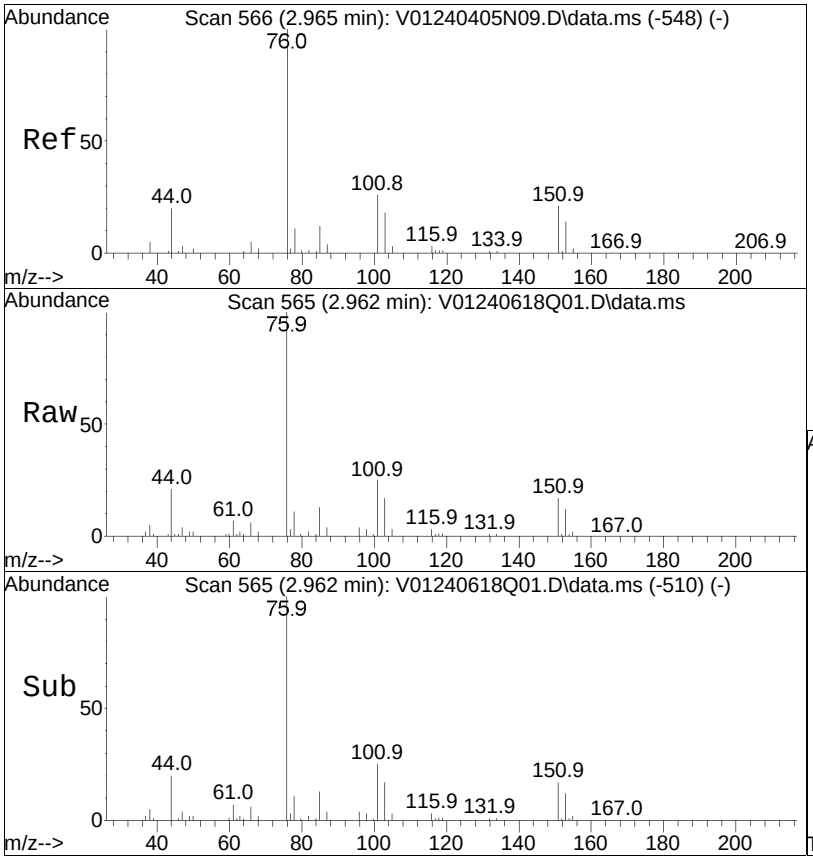


#10
1,1-Dichloroethene
Concen: 9.88 ug/L
RT: 2.934 min Scan# 555
Delta R.T. 0.005 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 96 Resp: 59720

Ion	Ratio	Lower	Upper
96	100		
61	180.1	136.8	205.2
63	58.9	43.6	65.4

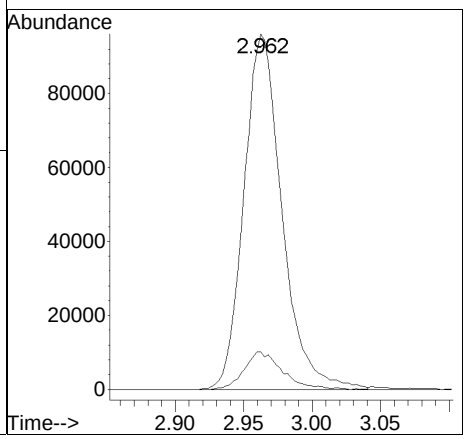


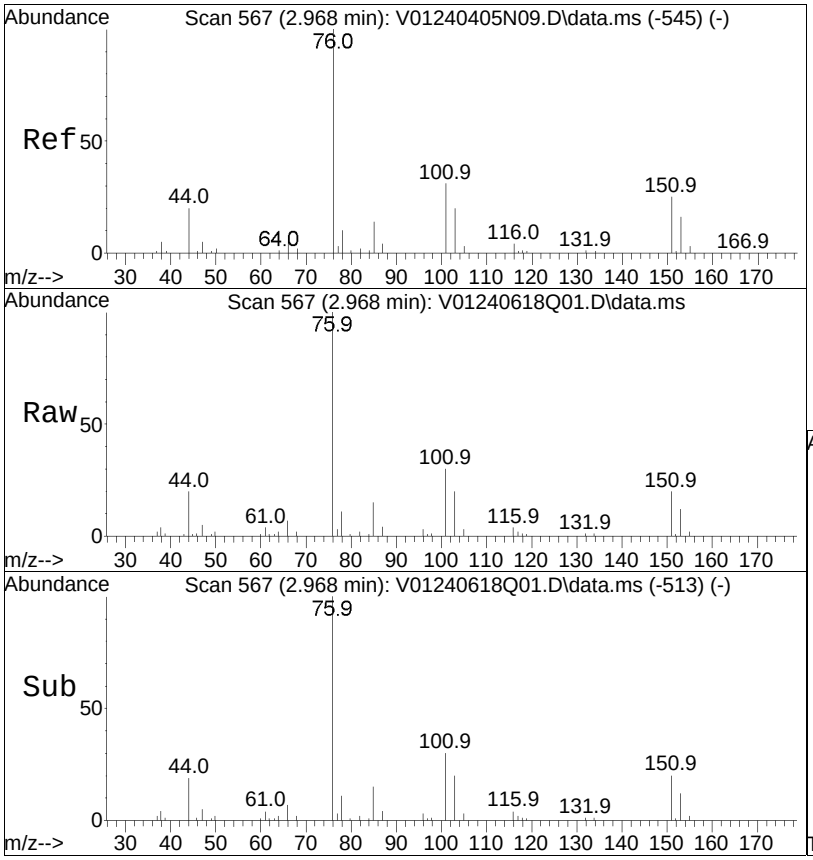


#11
Carbon disulfide
Concen: 10.20 ug/L
RT: 2.962 min Scan# 565
Delta R.T. 0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 76 Resp: 185642

Ion	Ratio	Lower	Upper
76	100		
78	10.5	6.6	13.8

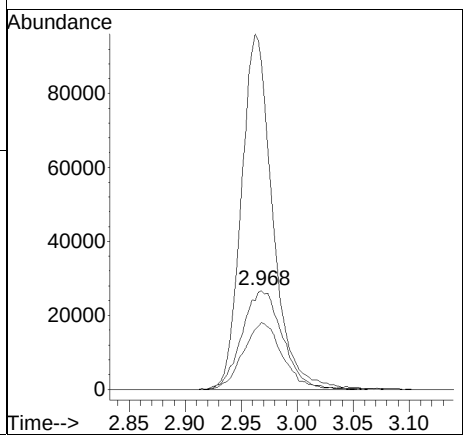


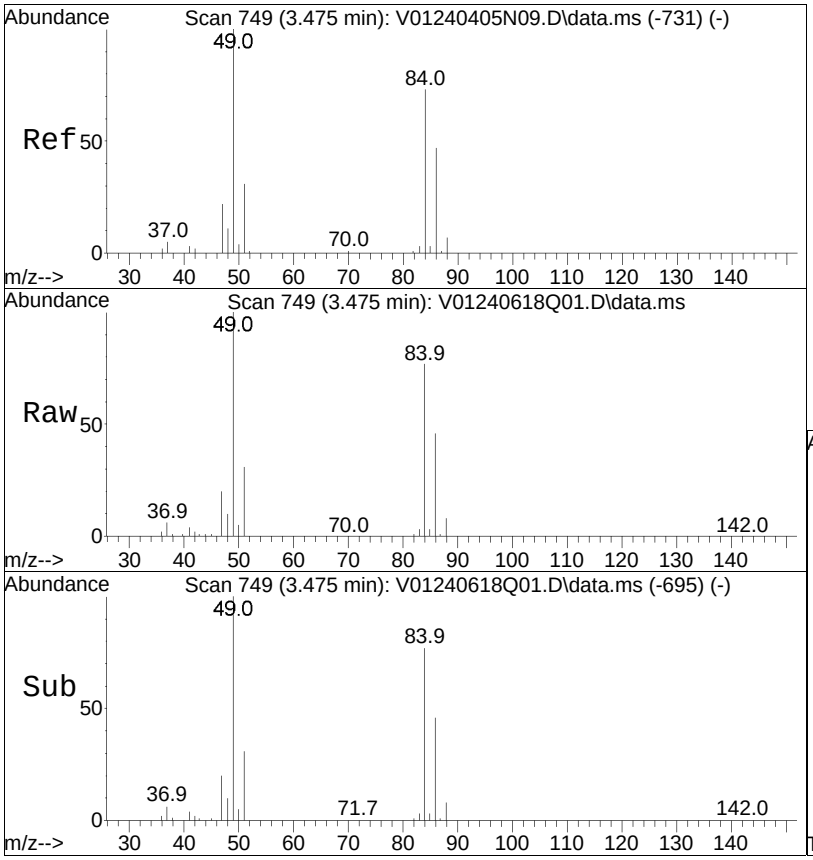


#12
Freon-113
Concen: 10.61 ug/L
RT: 2.968 min Scan# 567
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:101 Resp: 67899

Ion	Ratio	Lower	Upper
101	100		
151	64.4	61.2	91.8
76	273.4	194.8	292.2

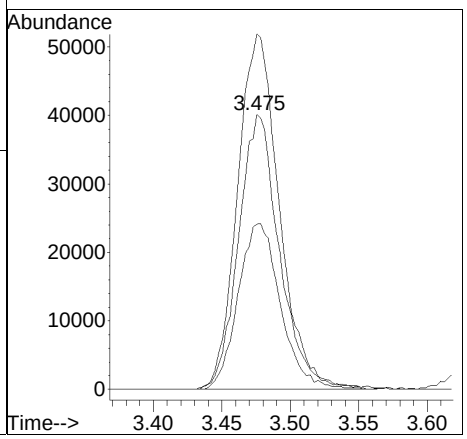


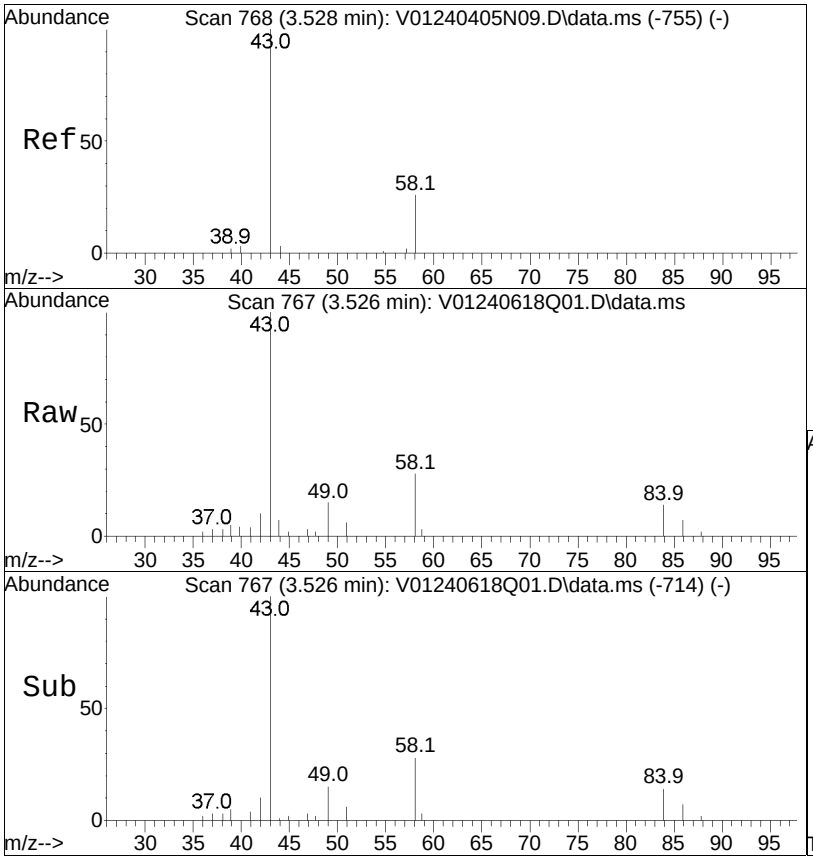


#15
Methylene chloride
Concen: 10.51 ug/L
RT: 3.475 min Scan# 749
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 84 Resp: 83441

Ion	Ratio	Lower	Upper
84	100		
86	62.5	41.7	86.7
49	132.0	89.1	185.1

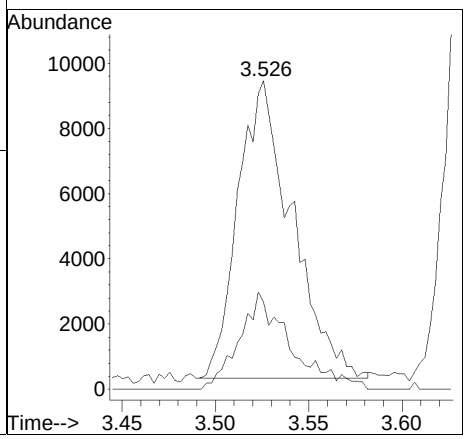


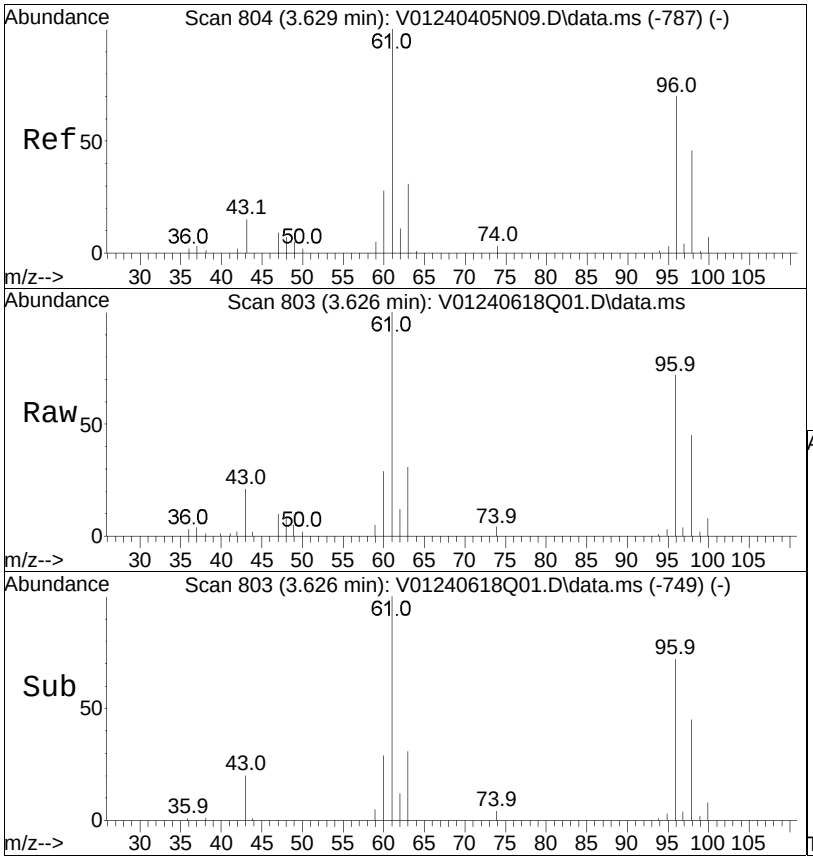


#17
Acetone
Concen: 10.96 ug/L
RT: 3.526 min Scan# 767
Delta R.T. -0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 43 Resp: 18296

Ion	Ratio	Lower	Upper
43	100		
58	30.9	25.9	38.9

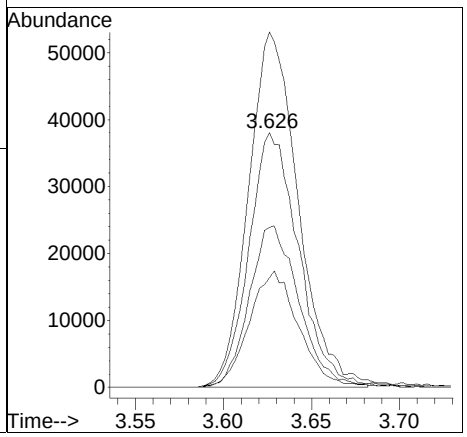


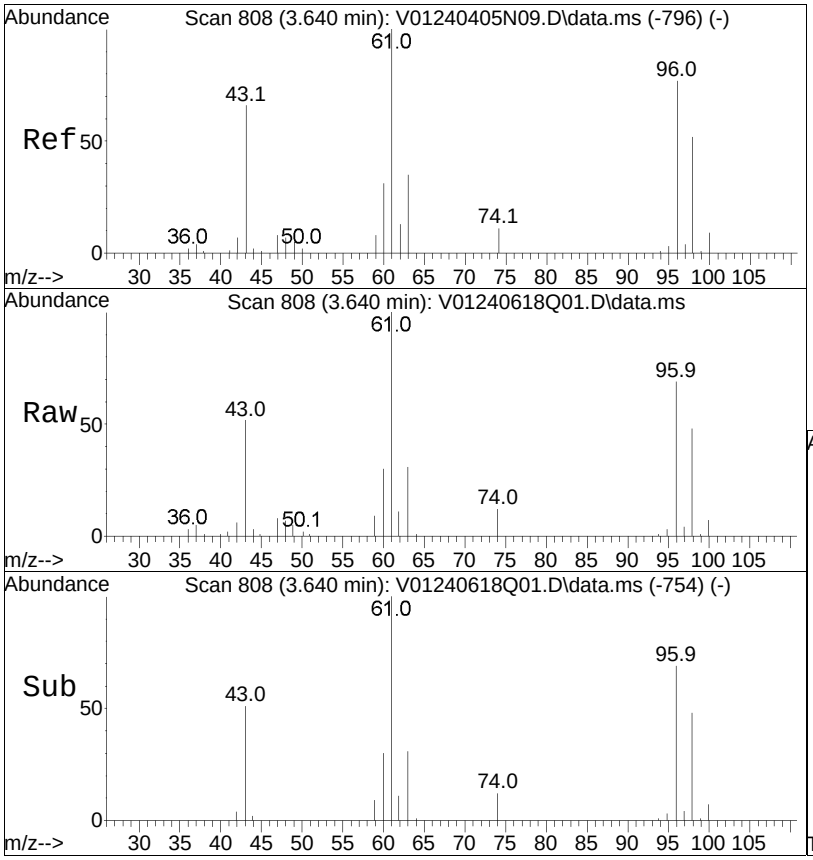


#18
trans-1,2-Dichloroethene
Concen: 10.26 ug/L
RT: 3.626 min Scan# 803
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 96 Resp: 74683

Ion	Ratio	Lower	Upper
96	100		
61	140.6	95.3	197.9
98	63.9	41.0	85.2
63	45.8	30.2	62.6

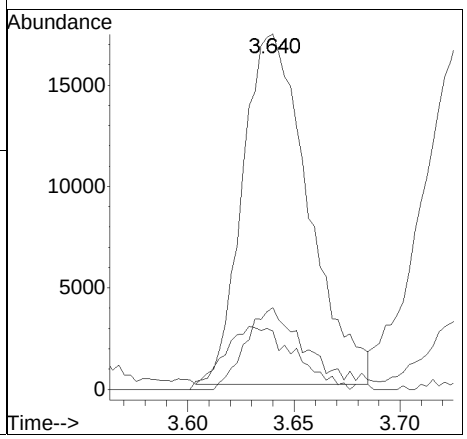


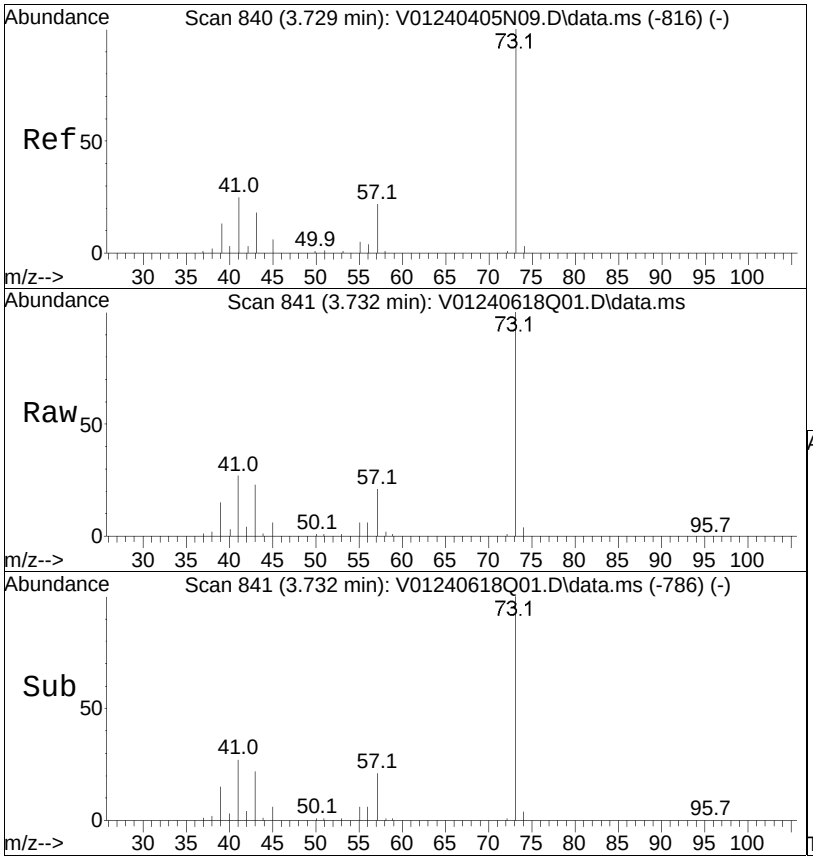


#19
Methyl acetate
Concen: 11.53 ug/L
RT: 3.640 min Scan# 808
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 43 Resp: 37092

Ion	Ratio	Lower	Upper
43	100		
74	22.1	18.2	27.2
59	19.1	18.2	27.2

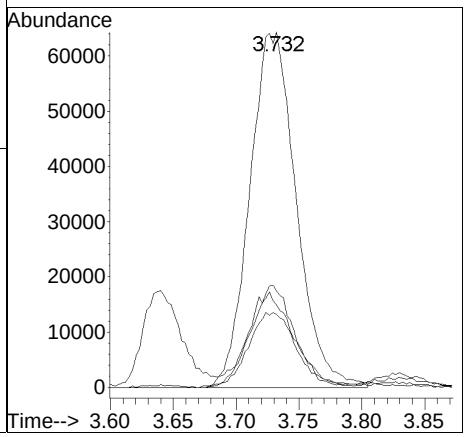


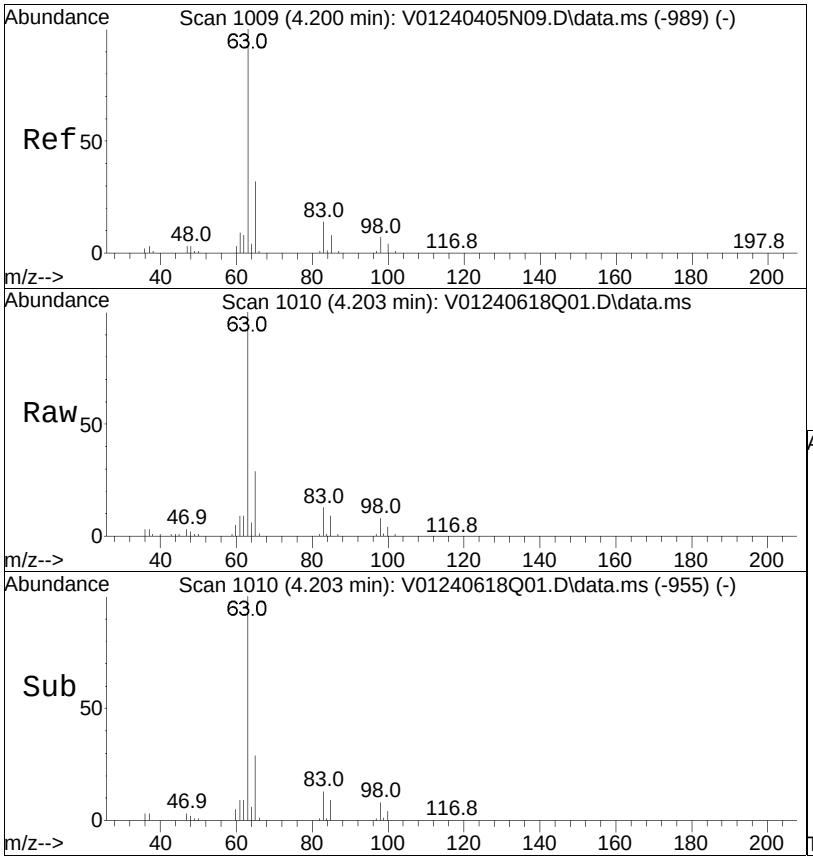


#20
Methyl tert-butyl ether
Concen: 9.60 ug/L
RT: 3.732 min Scan# 841
Delta R.T. 0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 73 Resp: 165382

Ion	Ratio	Lower	Upper
73	100		
57	21.5	14.8	30.6
43	24.4	15.5	32.3
41	28.4	14.1	29.3

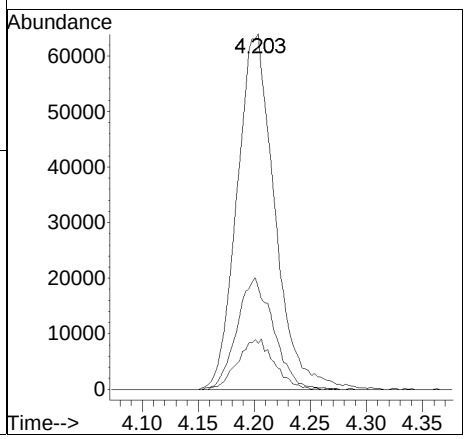


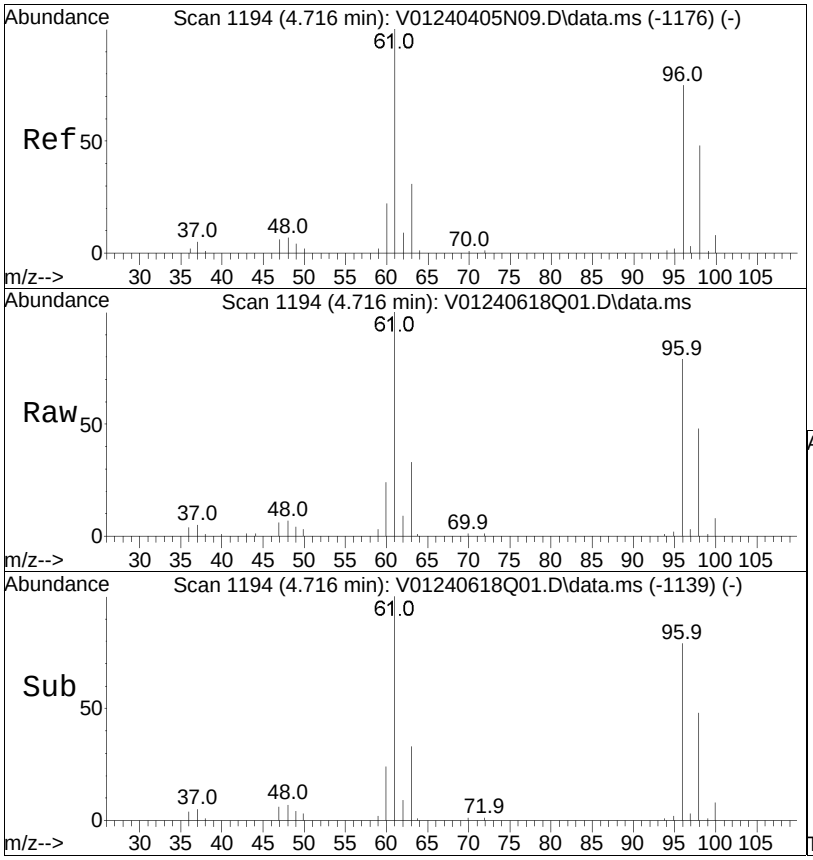


#23
1,1-Dichloroethane
Concen: 10.77 ug/L
RT: 4.203 min Scan# 1010
Delta R.T. 0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 63 Resp: 149586

Ion	Ratio	Lower	Upper
63	100		
65	30.6	10.9	50.9
83	13.7	0.0	33.0

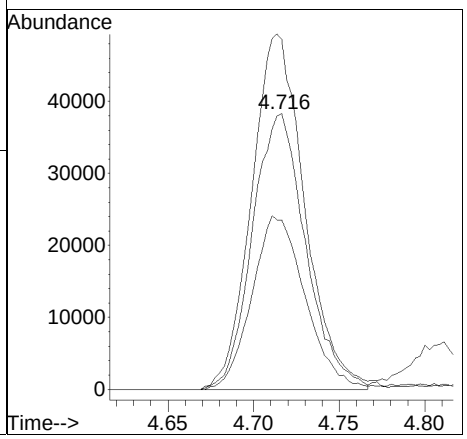


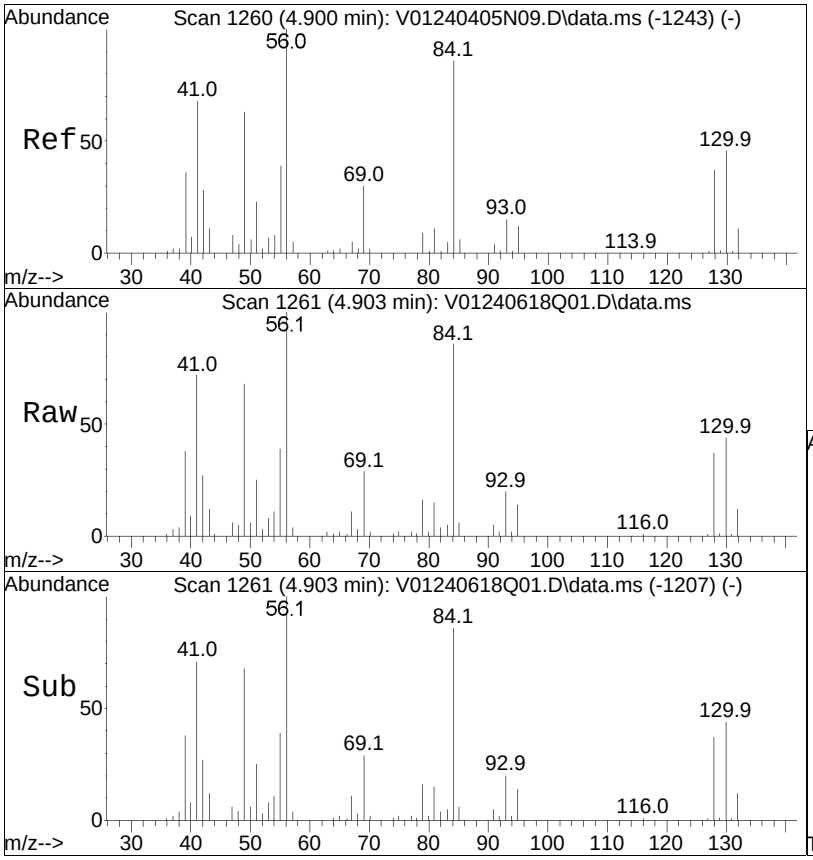


#28
cis-1,2-Dichloroethene
Concen: 10.30 ug/L
RT: 4.716 min Scan# 1194
Delta R.T. 0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 96 Resp: 82944

Ion	Ratio	Lower	Upper
96	100		
61	128.1	105.8	158.6
98	63.3	51.1	76.7

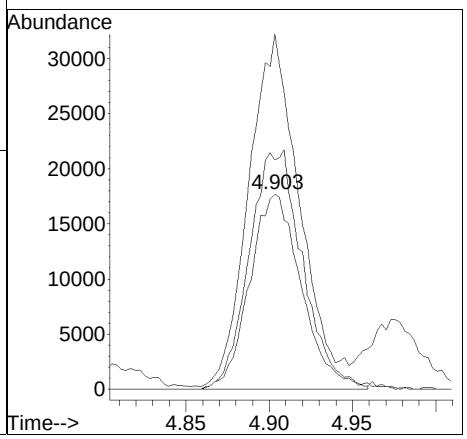


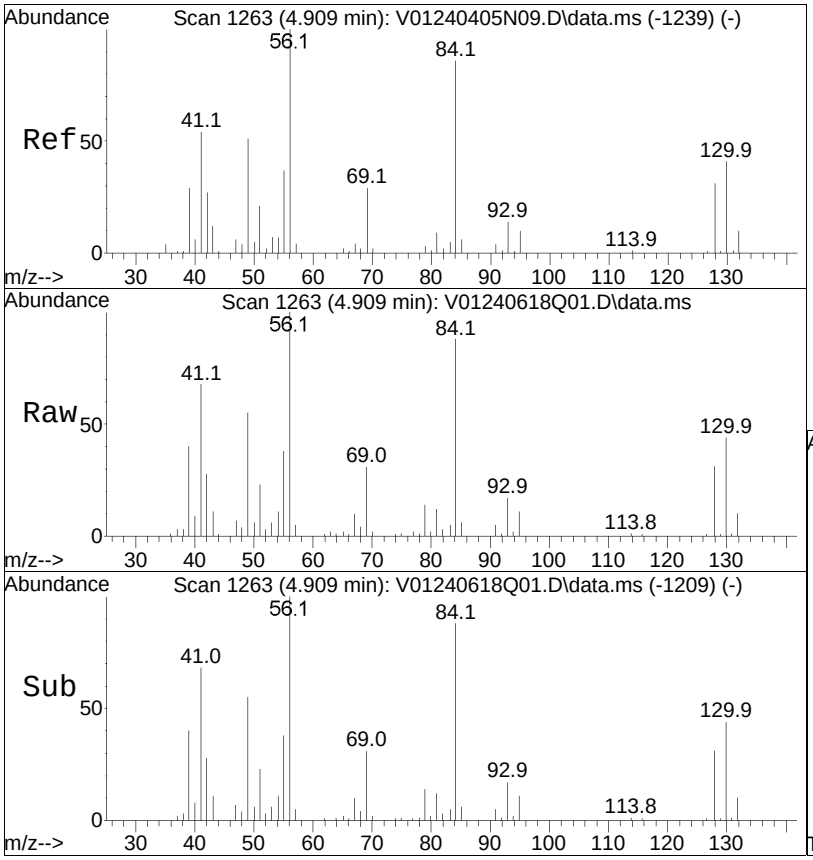


#30
Bromochloromethane
Concen: 10.73 ug/L
RT: 4.903 min Scan# 1261
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:128 Resp: 38300

Ion	Ratio	Lower	Upper
128	100		
49	174.7	140.4	210.6
130	126.3	103.1	154.7

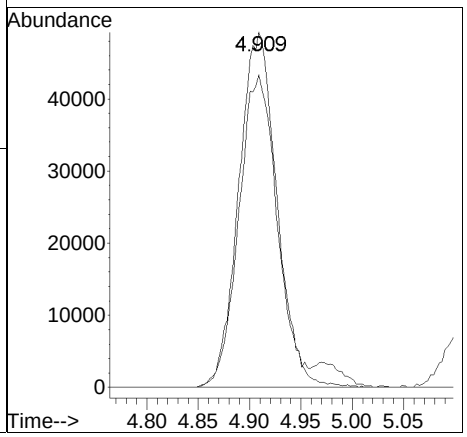


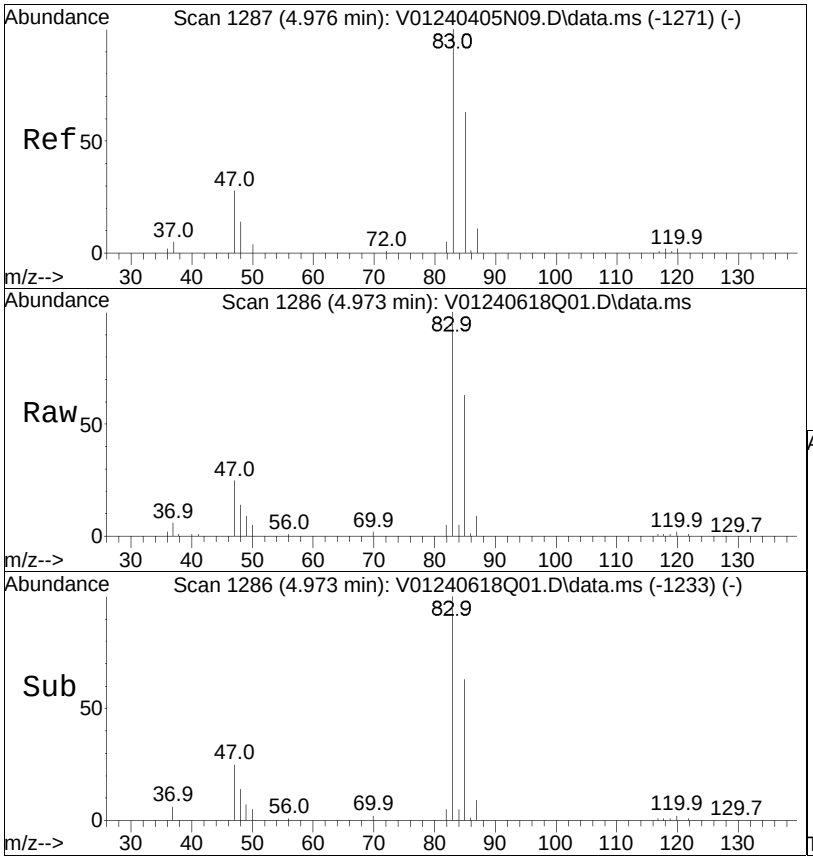


#31
Cyclohexane
Concen: 10.58 ug/L
RT: 4.909 min Scan# 1263
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 56 Resp: 127462

Ion	Ratio	Lower	Upper
56	100		
84	88.3	53.6	111.4

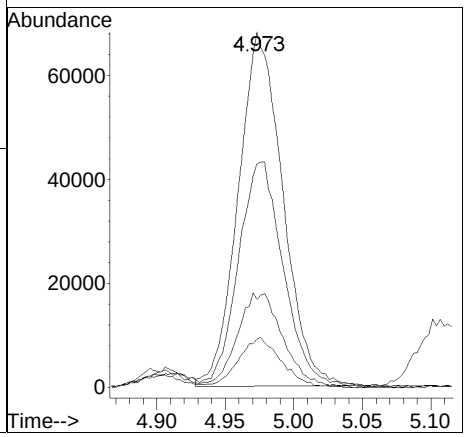


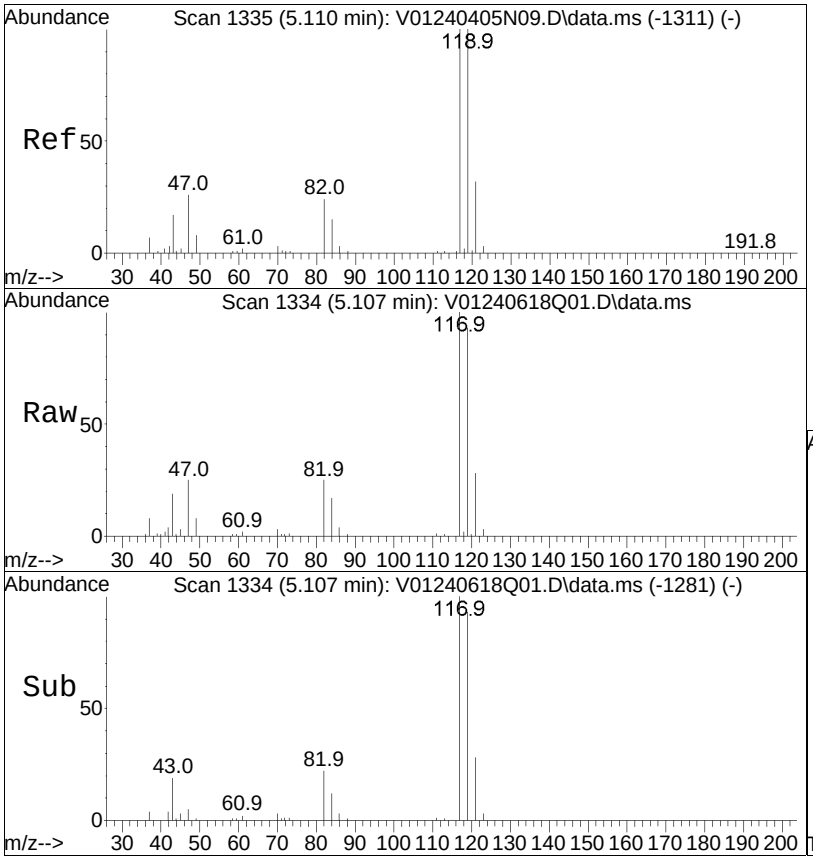


#32
Chloroform
Concen: 11.27 ug/L
RT: 4.973 min Scan# 1286
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 83 Resp: 153898

Ion	Ratio	Lower	Upper
83	100		
85	64.5	42.3	87.8
47	27.5	17.8	37.0
48	13.7	9.3	19.3

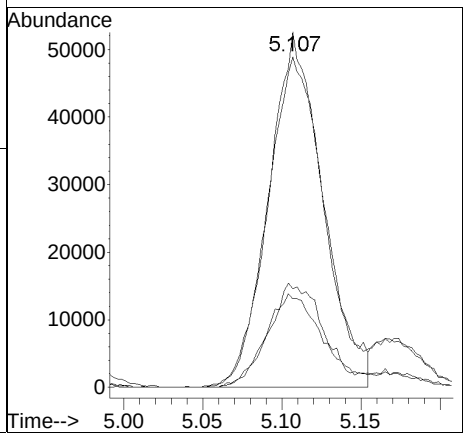


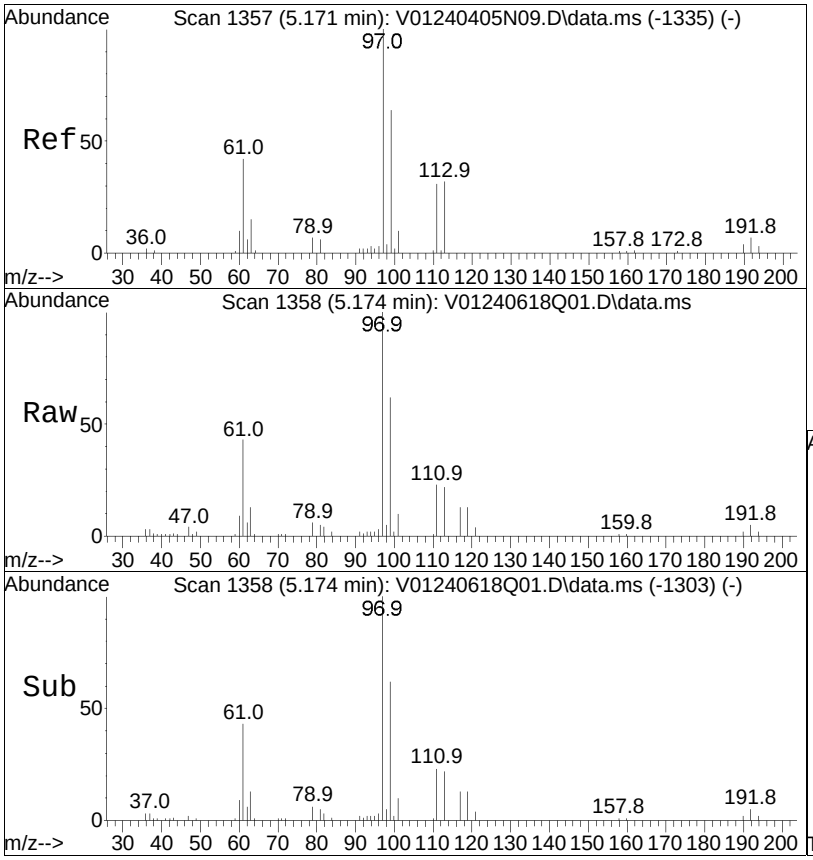


#34
Carbon tetrachloride
Concen: 11.51 ug/L
RT: 5.107 min Scan# 1334
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:117 Resp: 125712

Ion	Ratio	Lower	Upper
117	100		
119	96.3	62.1	128.9
121	31.4	19.8	41.0
82	27.3	17.1	35.5

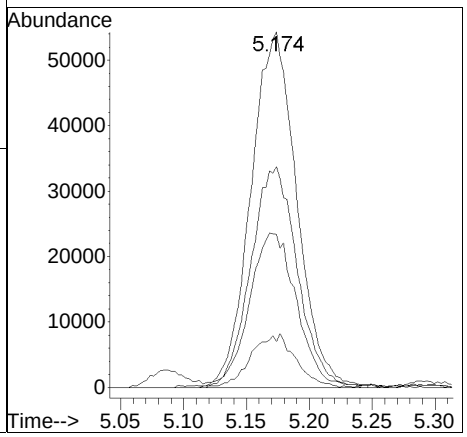


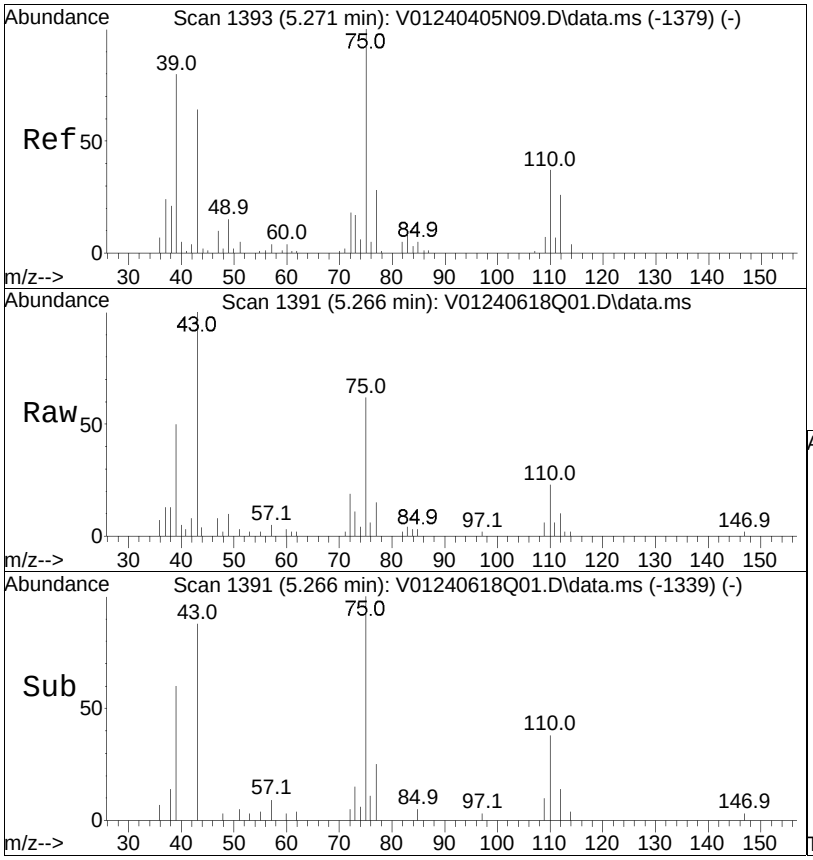


#37
1,1,1-Trichloroethane
Concen: 11.28 ug/L
RT: 5.174 min Scan# 1358
Delta R.T. 0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 97 Resp: 137879

Ion	Ratio	Lower	Upper
97	100		
99	63.0	41.7	86.7
61	44.2	29.4	61.2
63	14.5	9.4	19.4

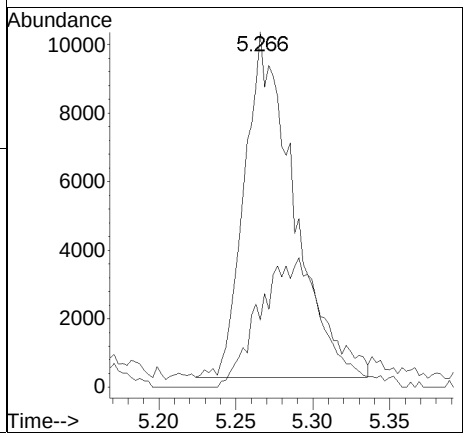


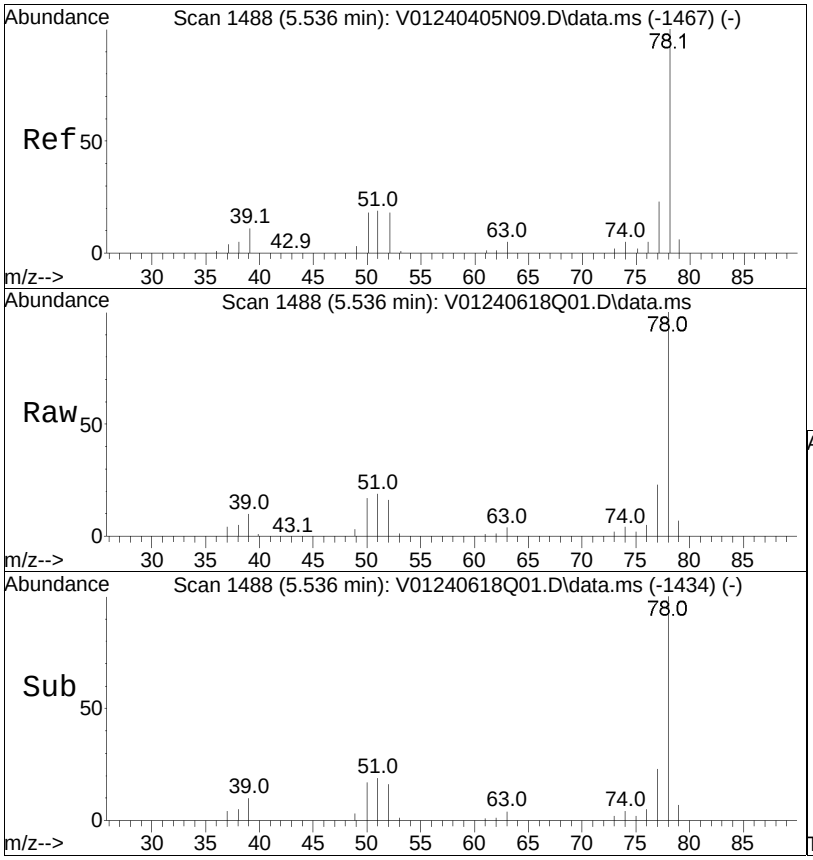


#39
2-Butanone
Concen: 12.19 ug/L
RT: 5.266 min Scan# 1391
Delta R.T. -0.005 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 43 Resp: 22565

Ion	Ratio	Lower	Upper
43	100		
72	19.4	45.8	68.6#

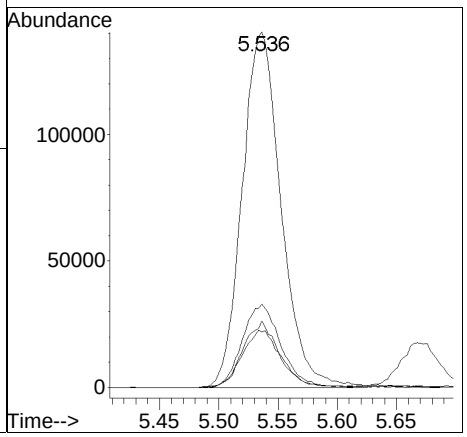


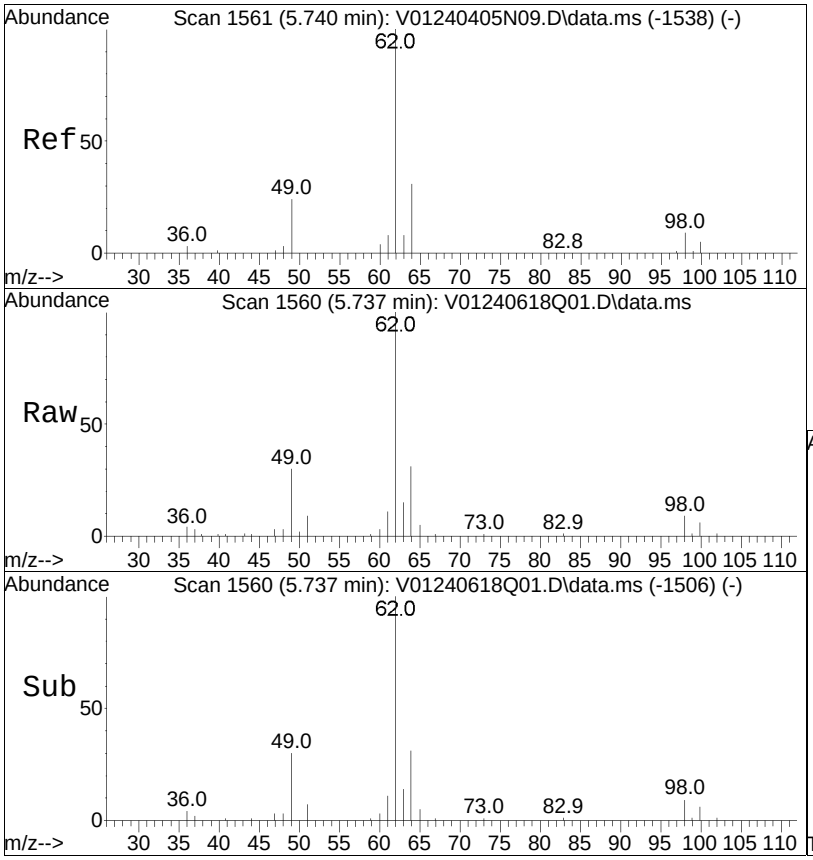


#41
Benzene
Concen: 10.93 ug/L
RT: 5.536 min Scan# 1488
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 78 Resp: 320894

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.7	32.5
51	17.6	11.6	24.2
52	16.1	10.9	22.5

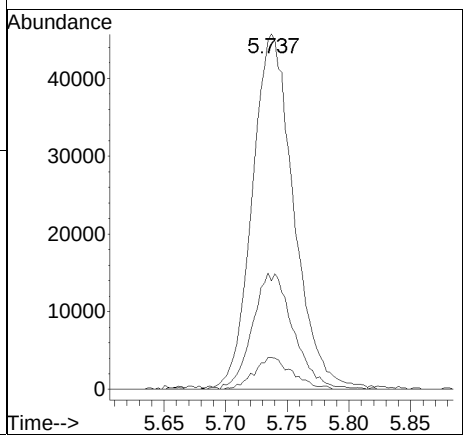


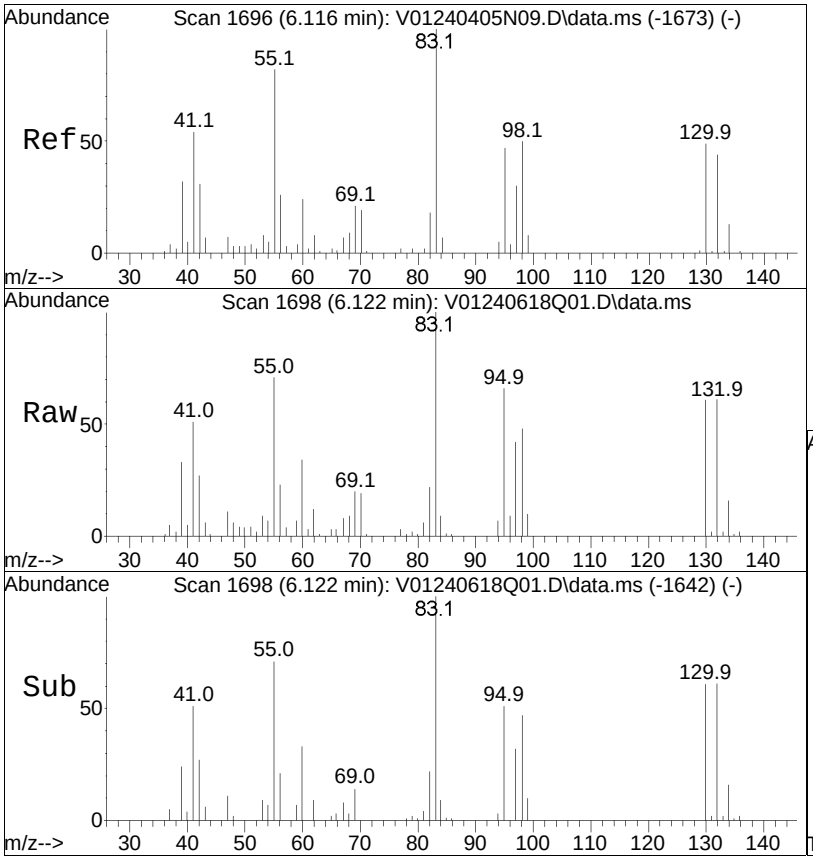


#44
1,2-Dichloroethane
Concen: 11.21 ug/L
RT: 5.737 min Scan# 1560
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 62 Resp: 107062

Ion	Ratio	Lower	Upper
62	100		
64	32.3	12.1	52.1
98	8.2	0.0	28.8

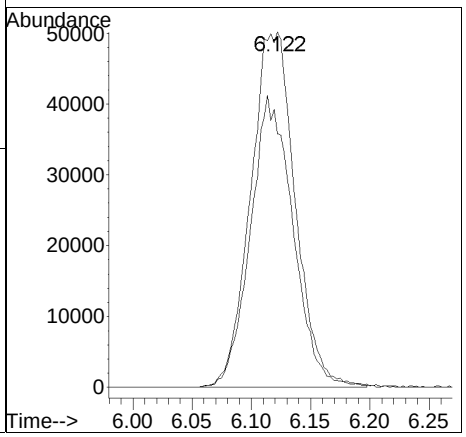


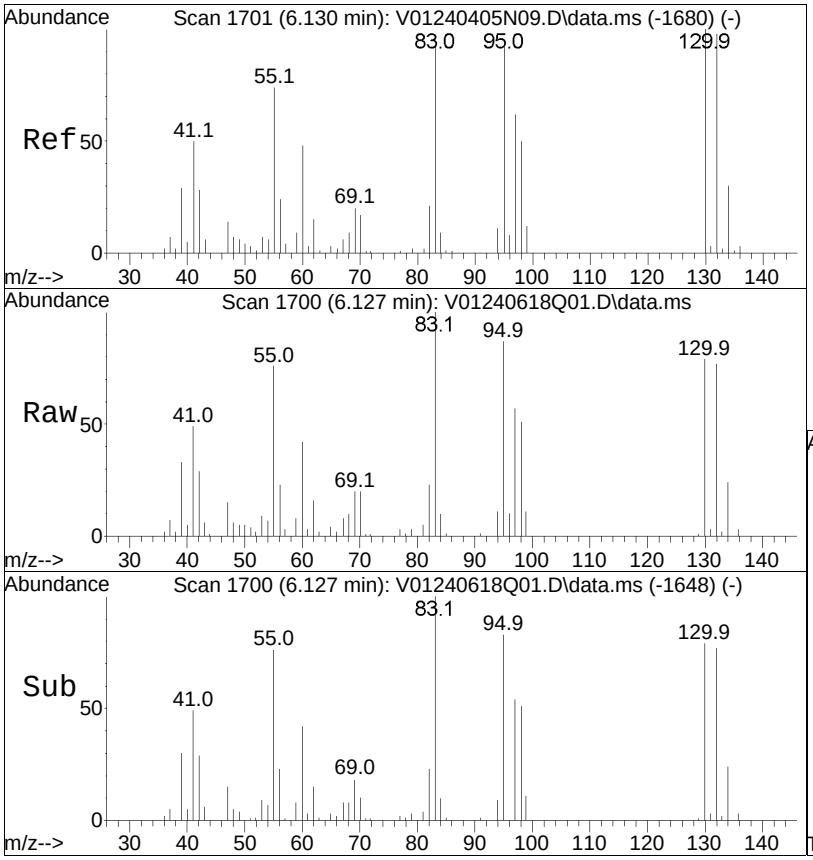


#47
Methyl cyclohexane
Concen: 10.96 ug/L
RT: 6.122 min Scan# 1698
Delta R.T. 0.006 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 83 Resp: 131701

Ion	Ratio	Lower	Upper
83	100		
55	78.0	64.6	96.8

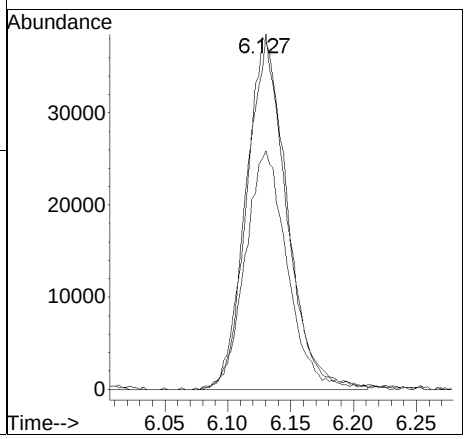


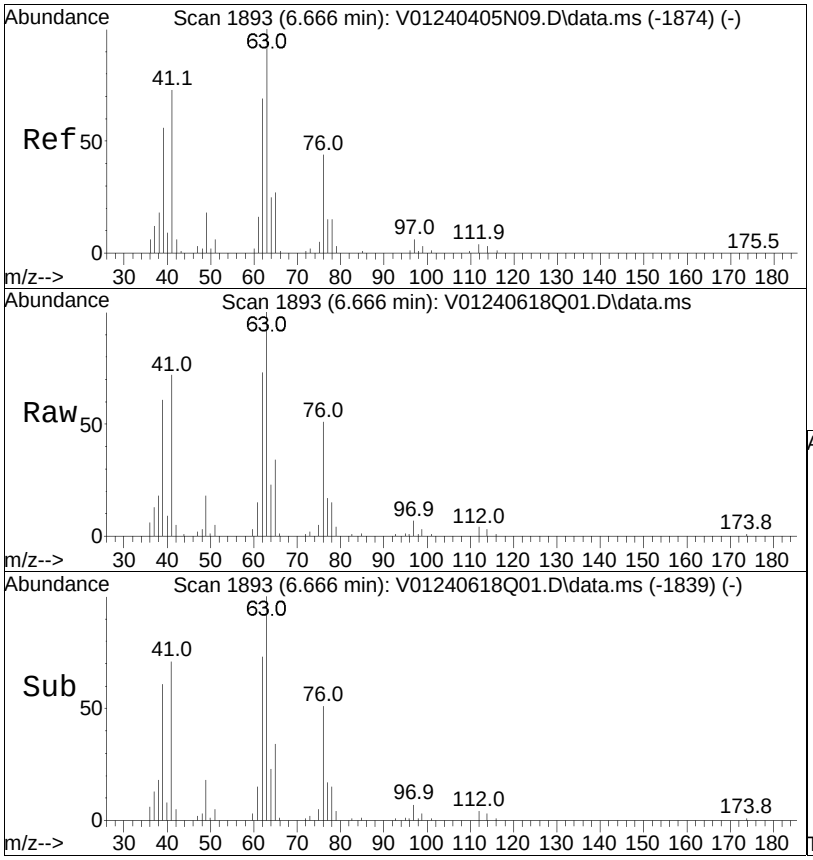


#48
Trichloroethene
Concen: 10.15 ug/L
RT: 6.127 min Scan# 1700
Delta R.T. -0.006 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 95 Resp: 87618

Ion	Ratio	Lower	Upper
95	100		
97	68.5	54.4	81.6
130	95.2	80.6	120.8

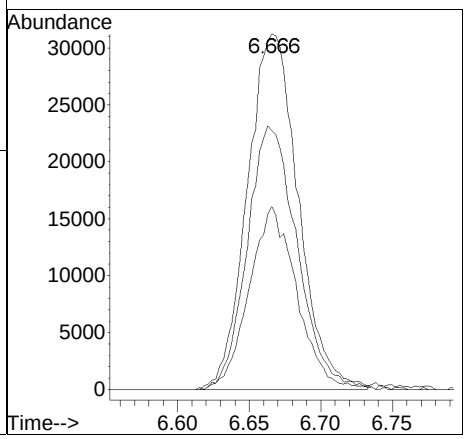


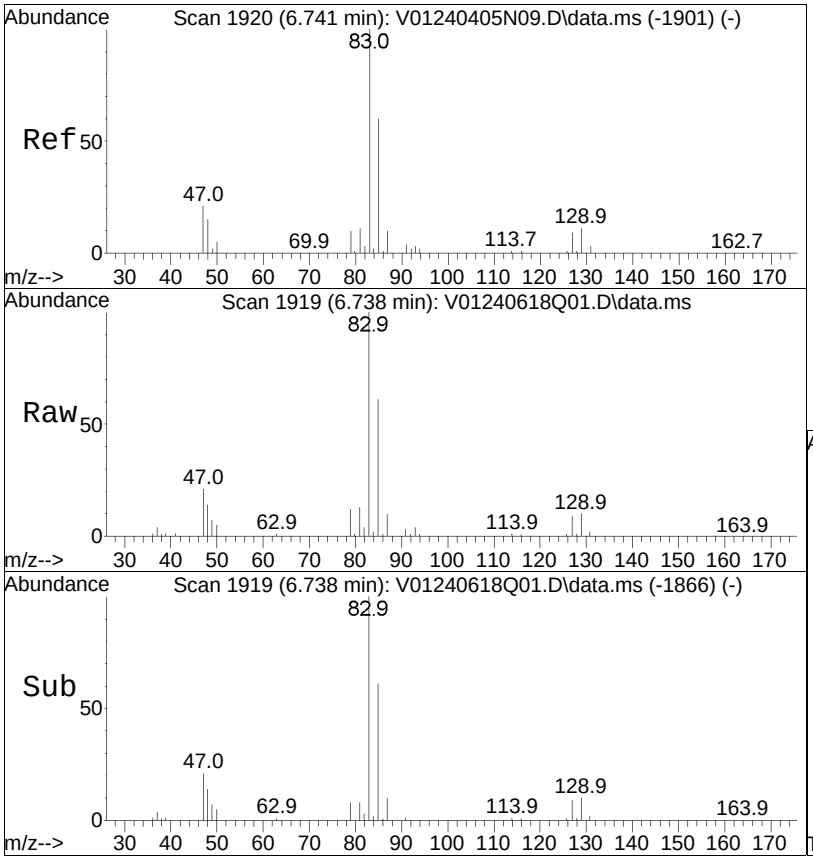


#51
1,2-Dichloropropane
Concen: 10.24 ug/L
RT: 6.666 min Scan# 1893
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 63 Resp: 77147

Ion	Ratio	Lower	Upper
63	100		
62	72.7	57.2	85.8
76	48.2	33.6	50.4

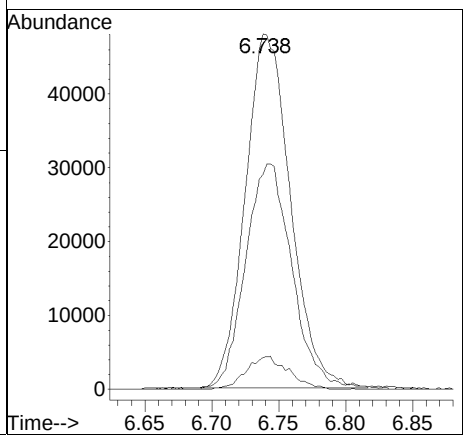


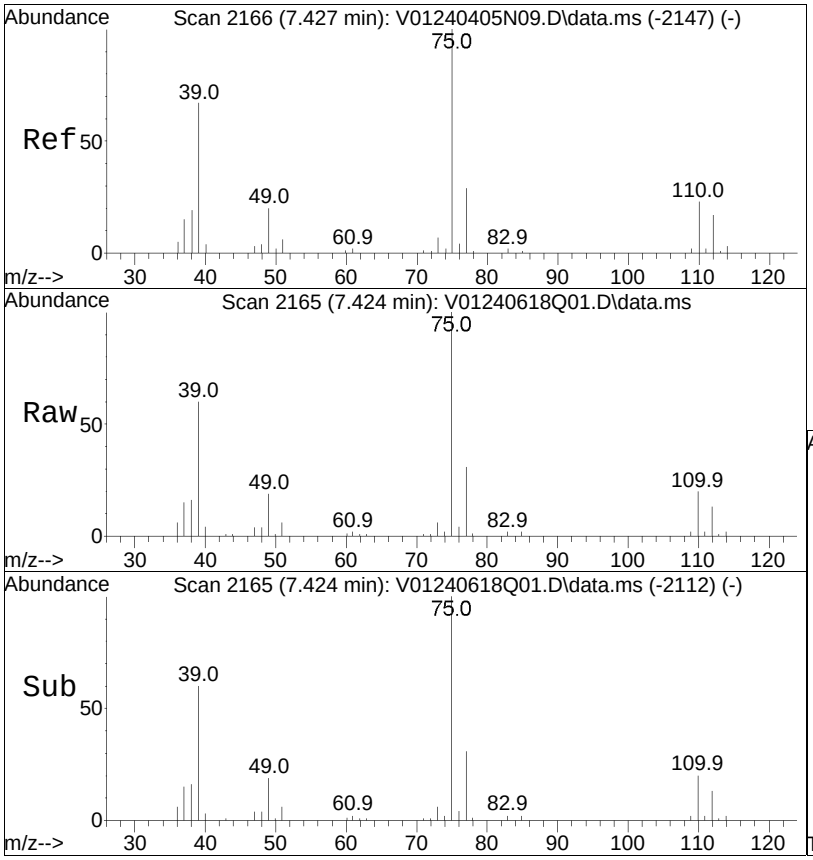


#54
Bromodichloromethane
Concen: 10.58 ug/L
RT: 6.738 min Scan# 1919
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 83 Resp: 113217

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.4
127	8.8	6.9	10.3

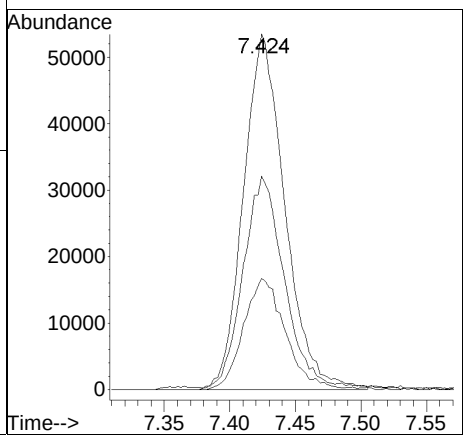


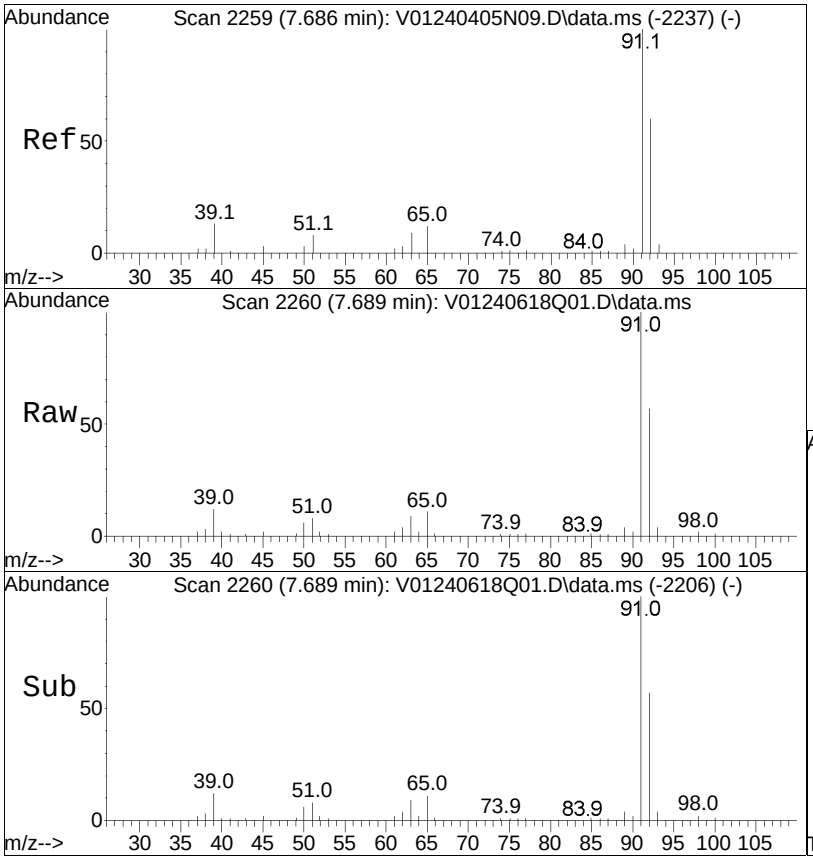


#58
cis-1,3-Dichloropropene
Concen: 10.04 ug/L
RT: 7.424 min Scan# 2165
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 75 Resp: 117413

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7
39	59.1	42.6	63.8

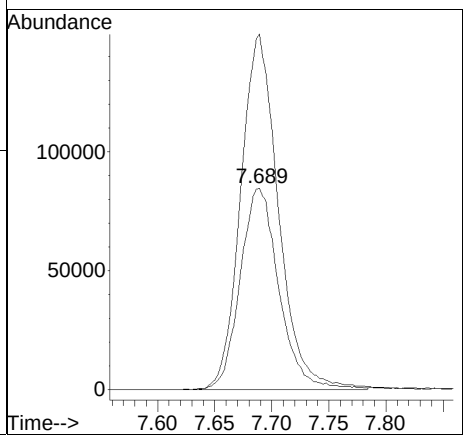


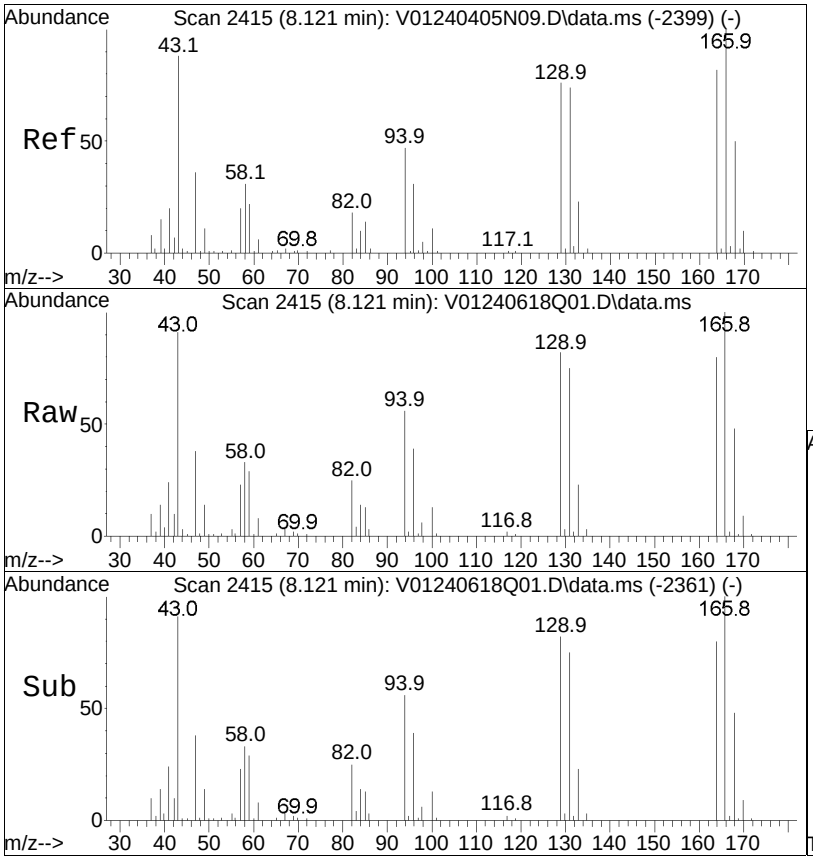


#61
Toluene
Concen: 10.95 ug/L
RT: 7.689 min Scan# 2260
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 92 Resp: 199630

Ion	Ratio	Lower	Upper
92	100		
91	172.7	137.5	206.3

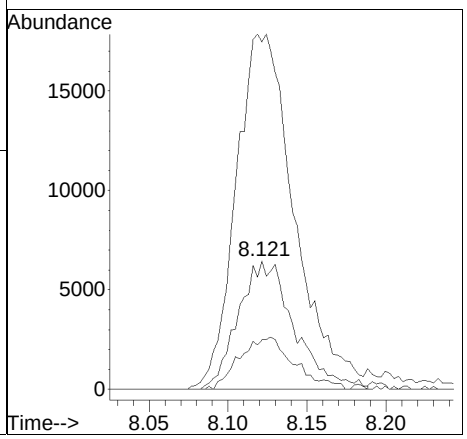


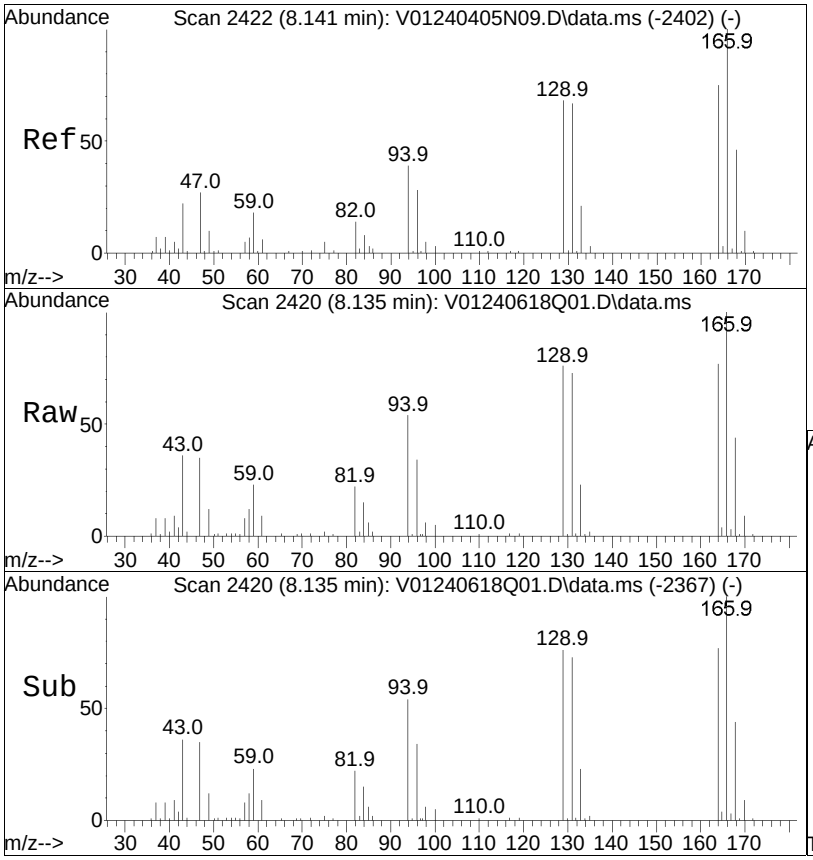


#62
4-Methyl-2-pentanone
Concen: 9.54 ug/L
RT: 8.121 min Scan# 2415
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 58 Resp: 15855

Ion	Ratio	Lower	Upper
58	100		
100	39.9	31.8	47.6
43	289.5	212.5	318.7

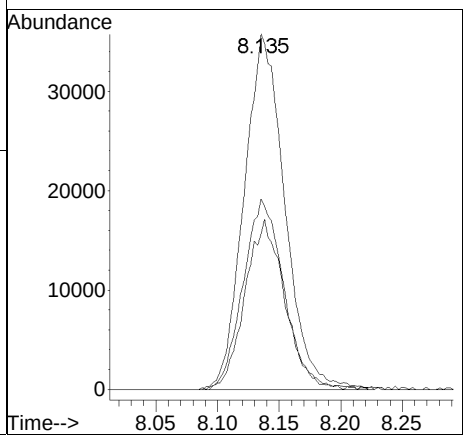


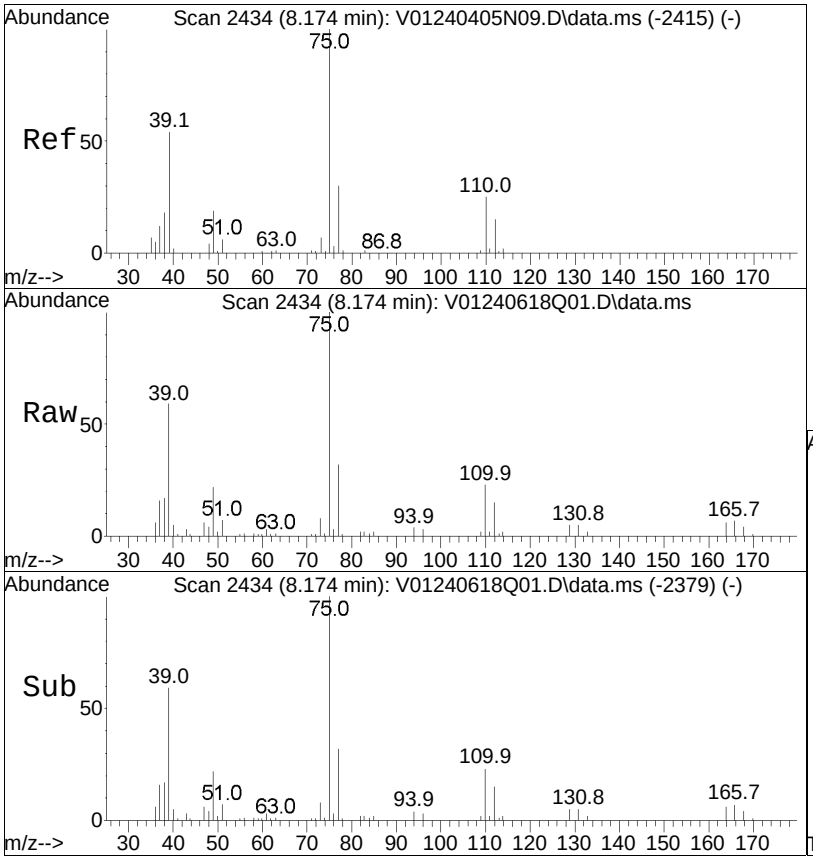


#63
Tetrachloroethene
Concen: 9.76 ug/L
RT: 8.135 min Scan# 2420
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:166 Resp: 82054

Ion	Ratio	Lower	Upper
166	100		
168	46.6	27.4	67.4
94	53.7	24.8	64.8

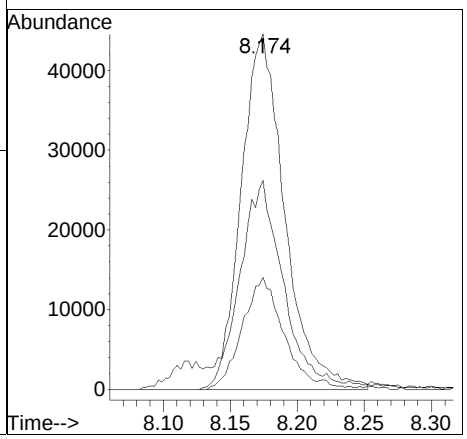


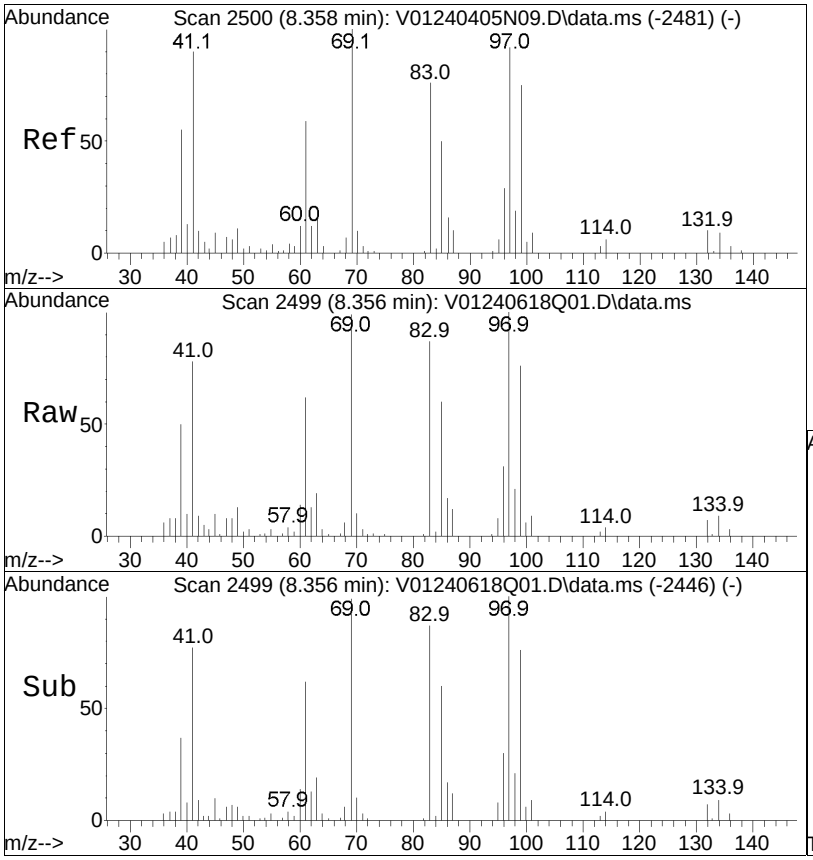


#65
trans-1,3-Dichloropropene
Concen: 10.09 ug/L
RT: 8.174 min Scan# 2434
Delta R.T. 0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 75 Resp: 100786

Ion	Ratio	Lower	Upper
75	100		
77	29.2	11.8	51.8
39	55.2	30.2	70.2

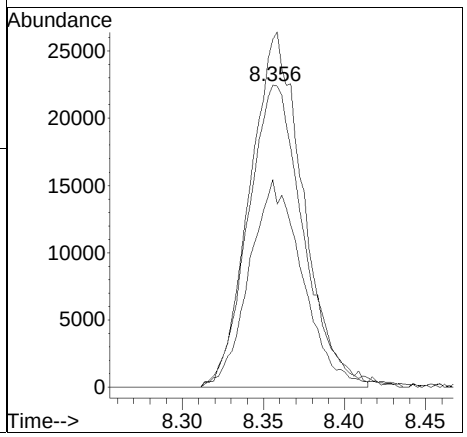


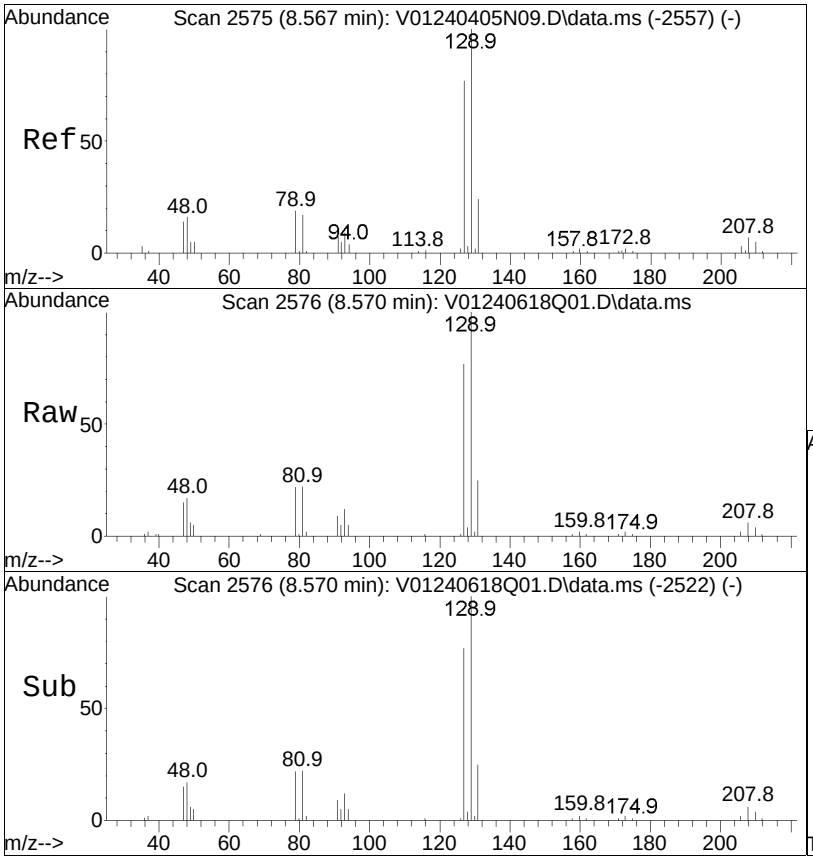


#68
1,1,2-Trichloroethane
Concen: 11.46 ug/L
RT: 8.356 min Scan# 2499
Delta R.T. -0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 83 Resp: 53119

Ion	Ratio	Lower	Upper
83	100		
97	113.9	96.7	136.7
85	67.0	45.3	85.3

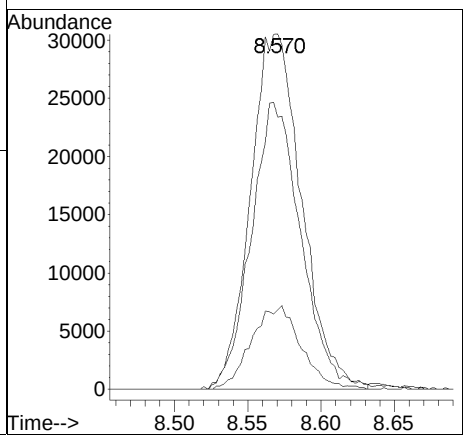


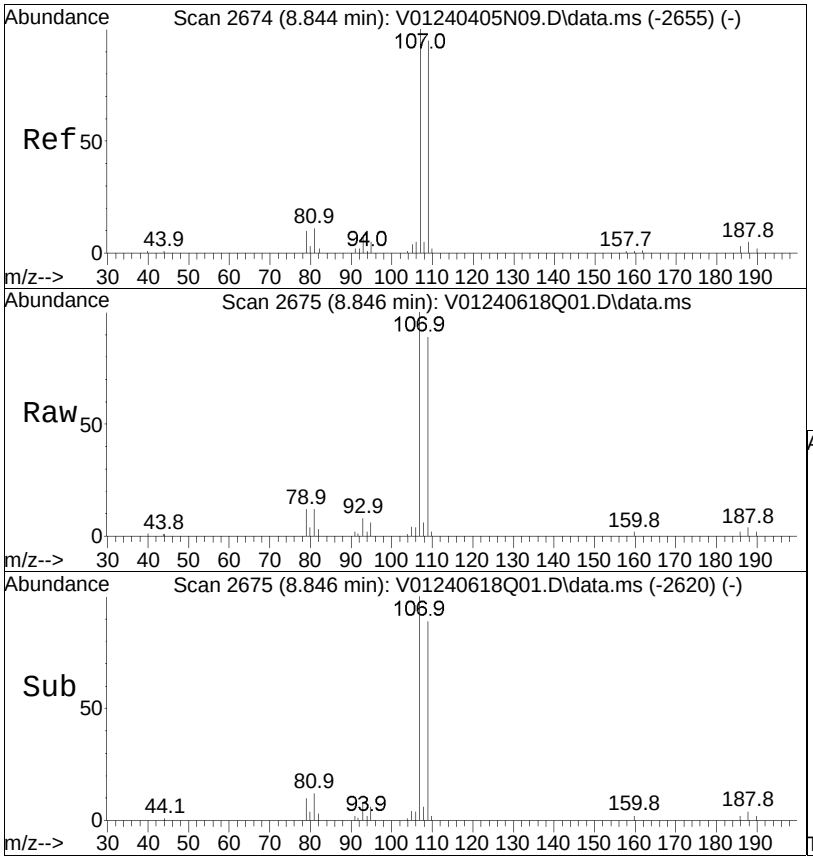


#69
Chlorodibromomethane
Concen: 10.28 ug/L
RT: 8.570 min Scan# 2576
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:129 Resp: 74183

Ion	Ratio	Lower	Upper
129	100		
81	22.9	0.0	37.9
127	78.4	56.6	96.6

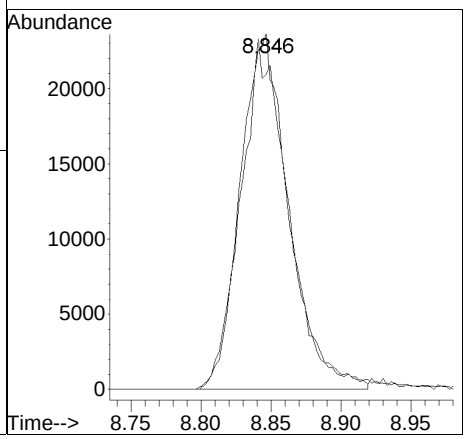


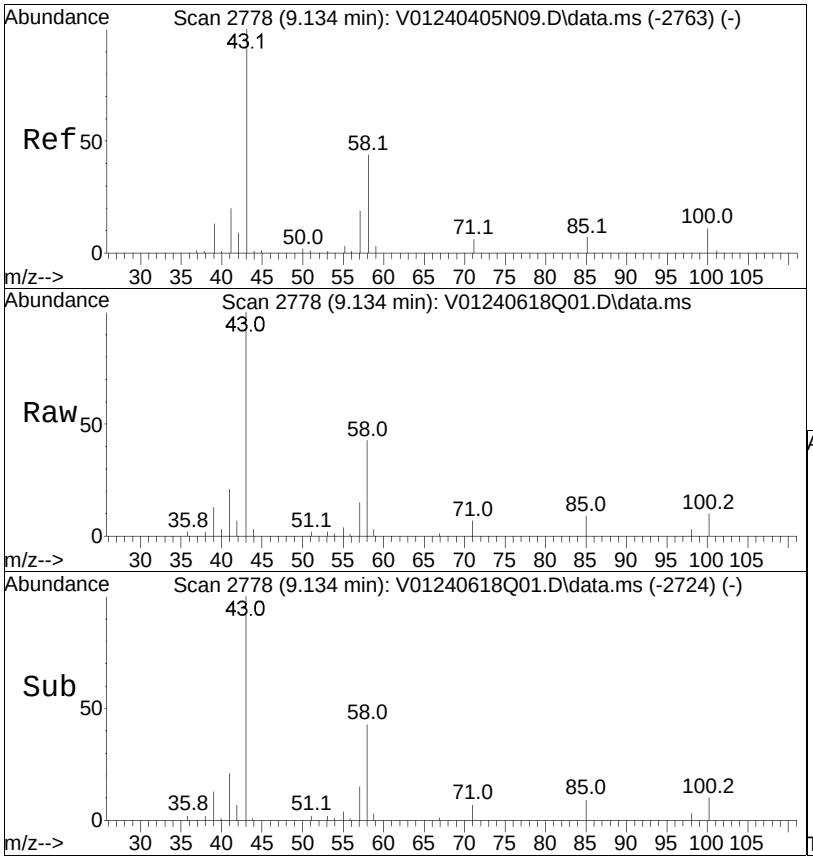


#71
1,2-Dibromoethane
Concen: 10.96 ug/L
RT: 8.846 min Scan# 2675
Delta R.T. 0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:107 Resp: 57704

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.6	113.4

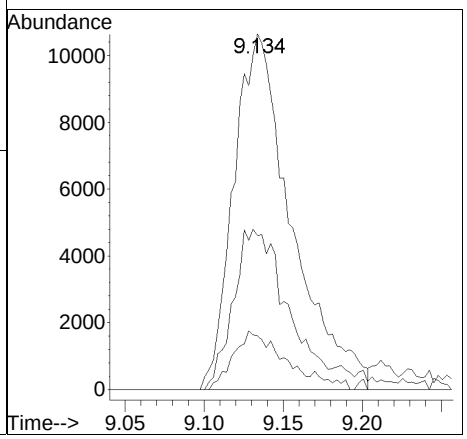


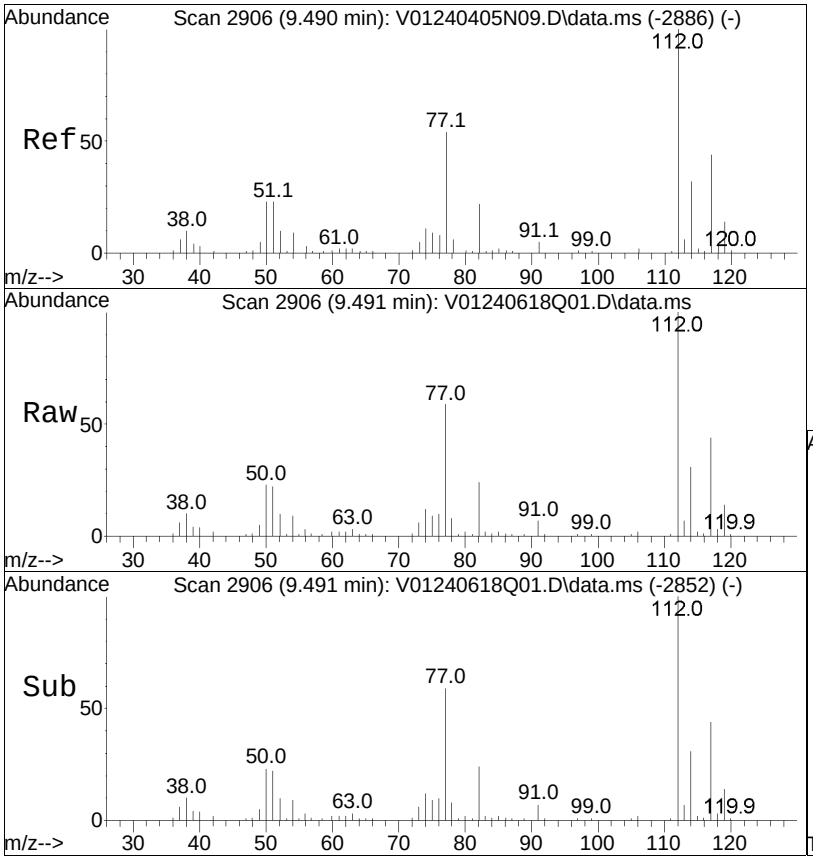


#72
2-Hexanone
Concen: 8.67 ug/L
RT: 9.134 min Scan# 2778
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 43 Resp: 27150

Ion	Ratio	Lower	Upper
43	100		
58	42.1	40.8	61.2
57	13.6	14.2	21.4#

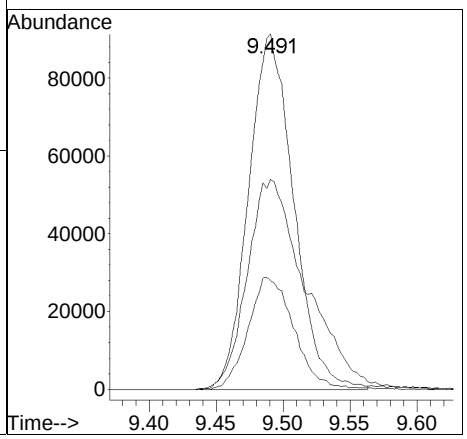


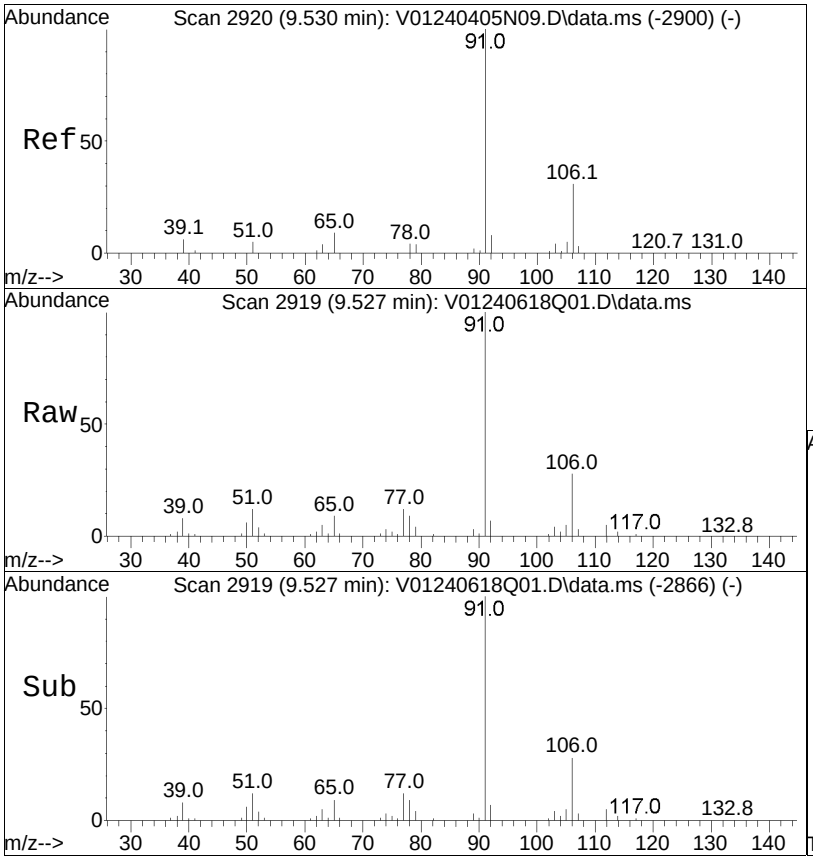


#73
Chlorobenzene
Concen: 10.63 ug/L
RT: 9.491 min Scan# 2906
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:112 Resp: 213366

Ion	Ratio	Lower	Upper
112	100		
77	77.4	59.8	89.6
114	32.1	25.4	38.2

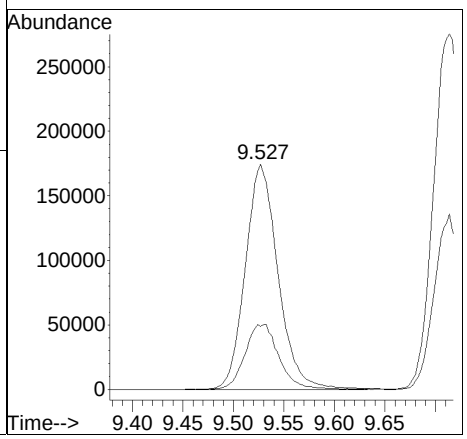


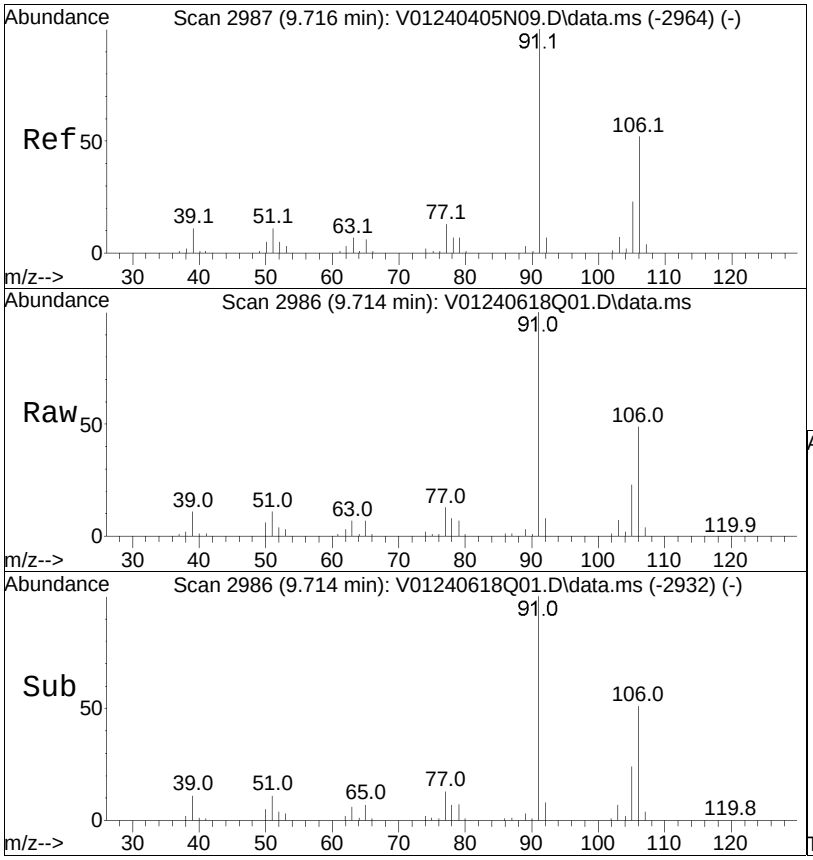


#74
Ethylbenzene
Concen: 11.07 ug/L
RT: 9.527 min Scan# 2919
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 91 Resp: 393901

Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.7	37.1

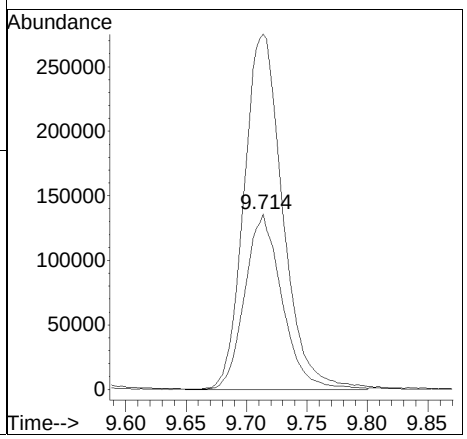


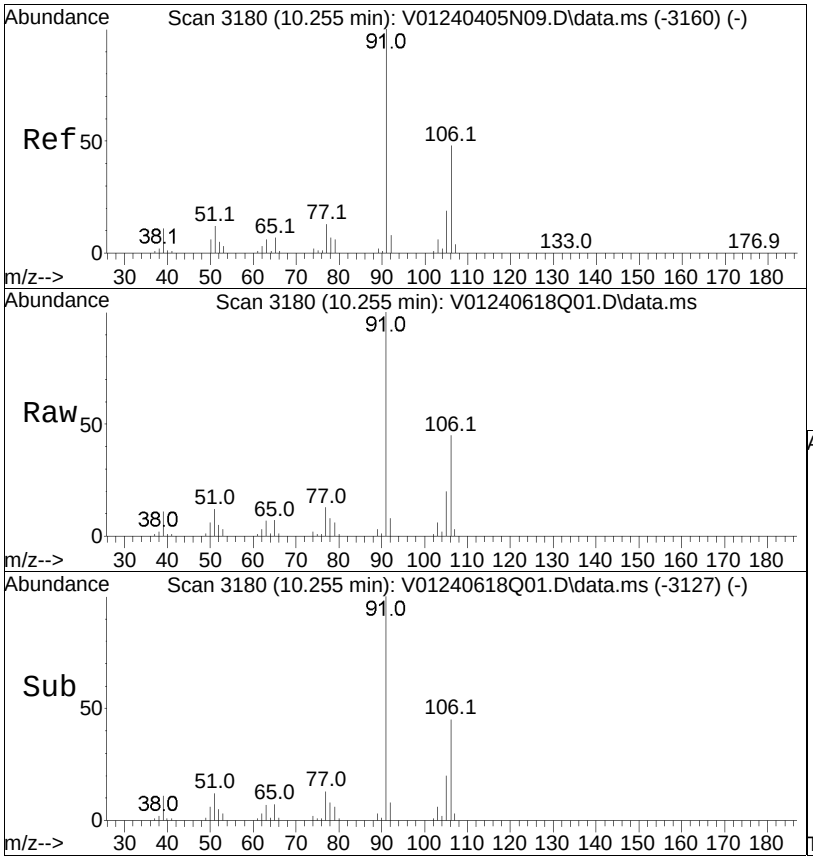


#76
p/m Xylene
Concen: 21.27 ug/L
RT: 9.714 min Scan# 2986
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:106 Resp: 291411

Ion	Ratio	Lower	Upper
106	100		
91	210.9	162.9	244.3

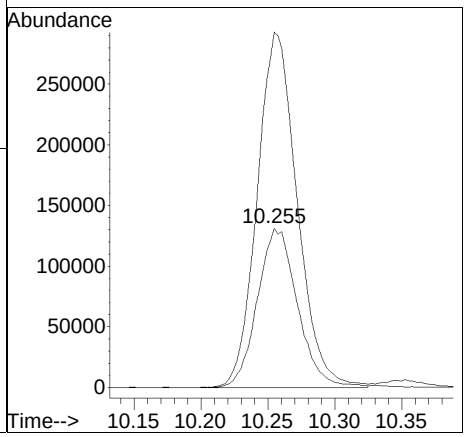


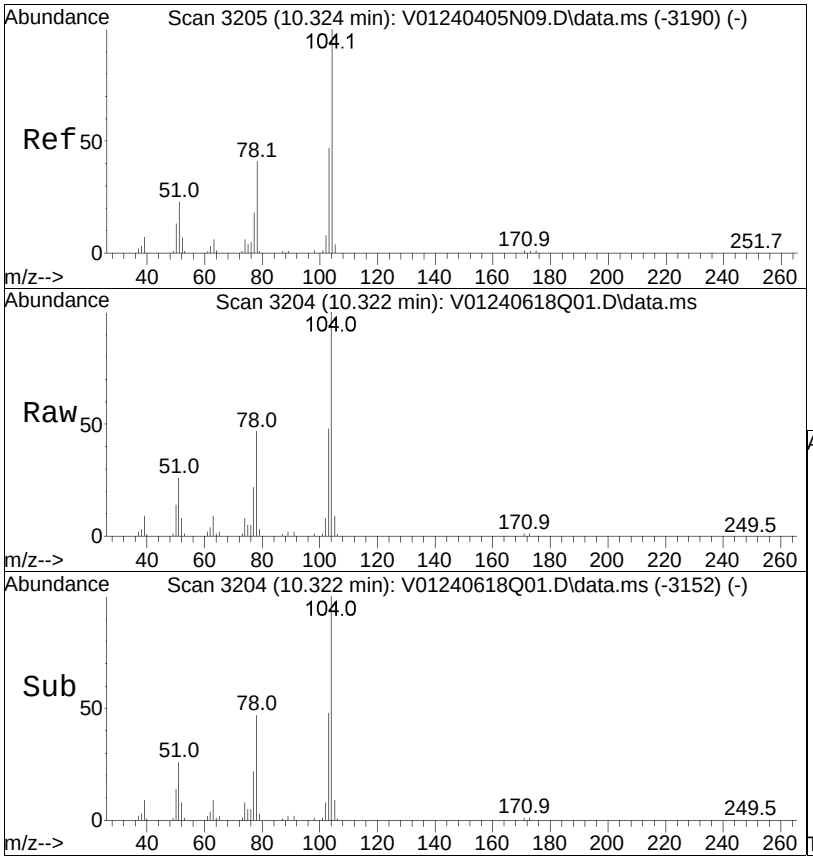


#77
o Xylene
Concen: 20.74 ug/L
RT: 10.255 min Scan# 3180
Delta R.T. -0.002 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:106 Resp: 271812

Ion	Ratio	Lower	Upper
106	100		
91	223.4	171.2	256.8

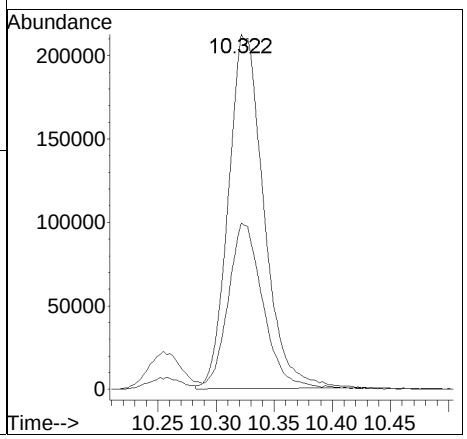


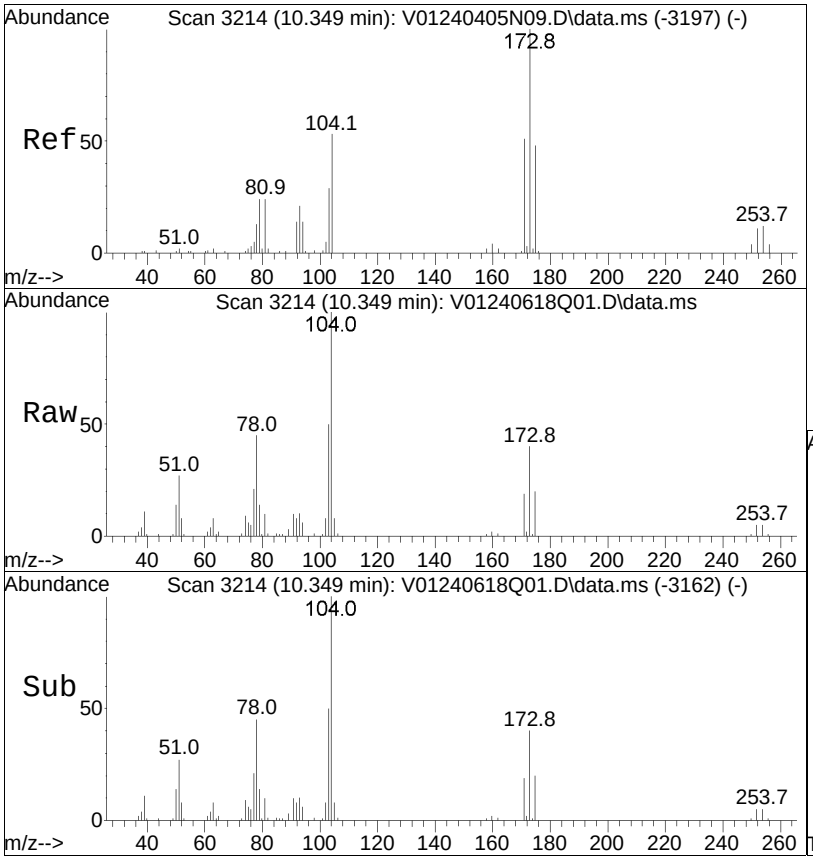


#78
Styrene
Concen: 21.06 ug/L
RT: 10.322 min Scan# 3204
Delta R.T. -0.005 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:104 Resp: 449839

Ion	Ratio	Lower	Upper
104	100		
78	45.0	34.2	51.4

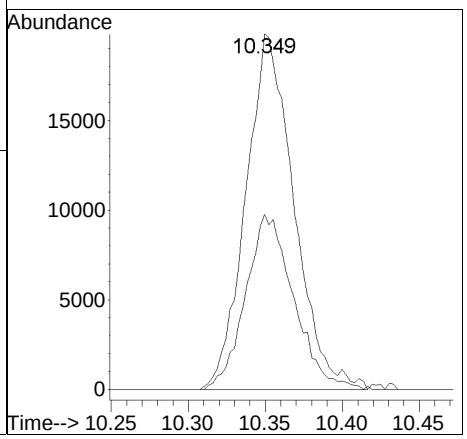


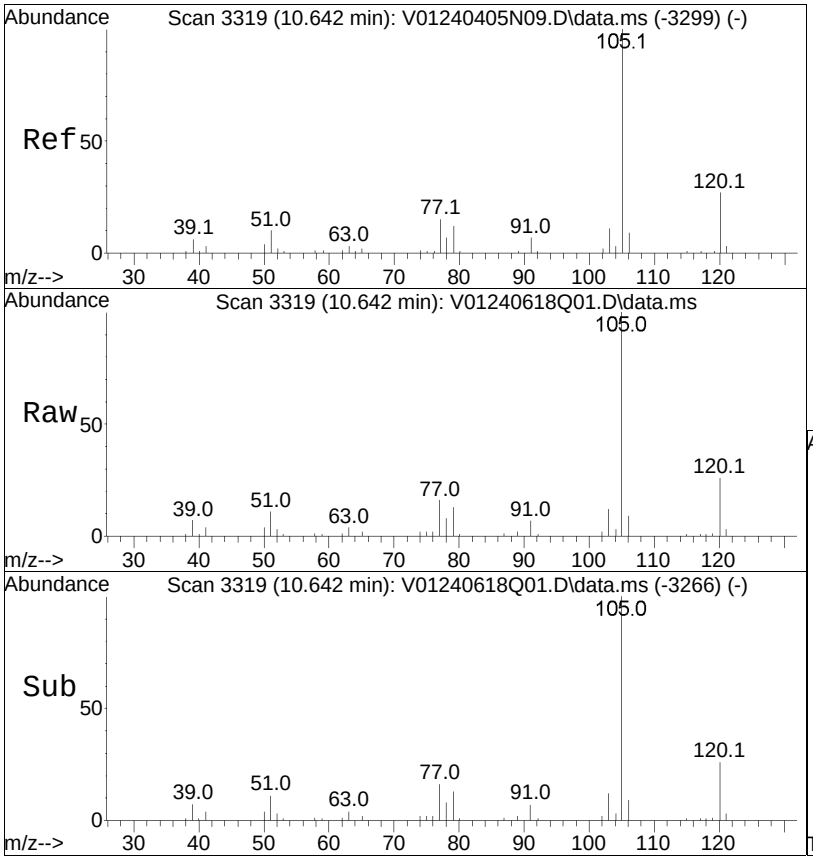


#80
Bromoform
Concen: 9.90 ug/L
RT: 10.349 min Scan# 3214
Delta R.T. -0.006 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:173 Resp: 43090

Ion	Ratio	Lower	Upper
173	100		
175	49.1	28.6	68.6

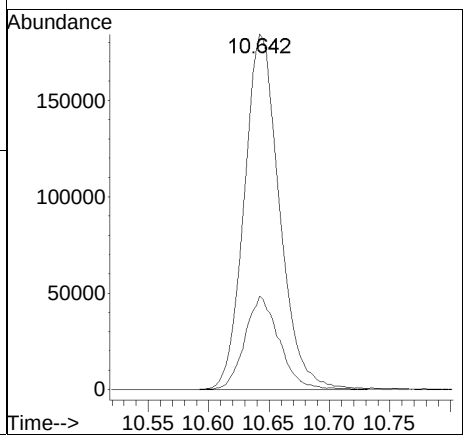


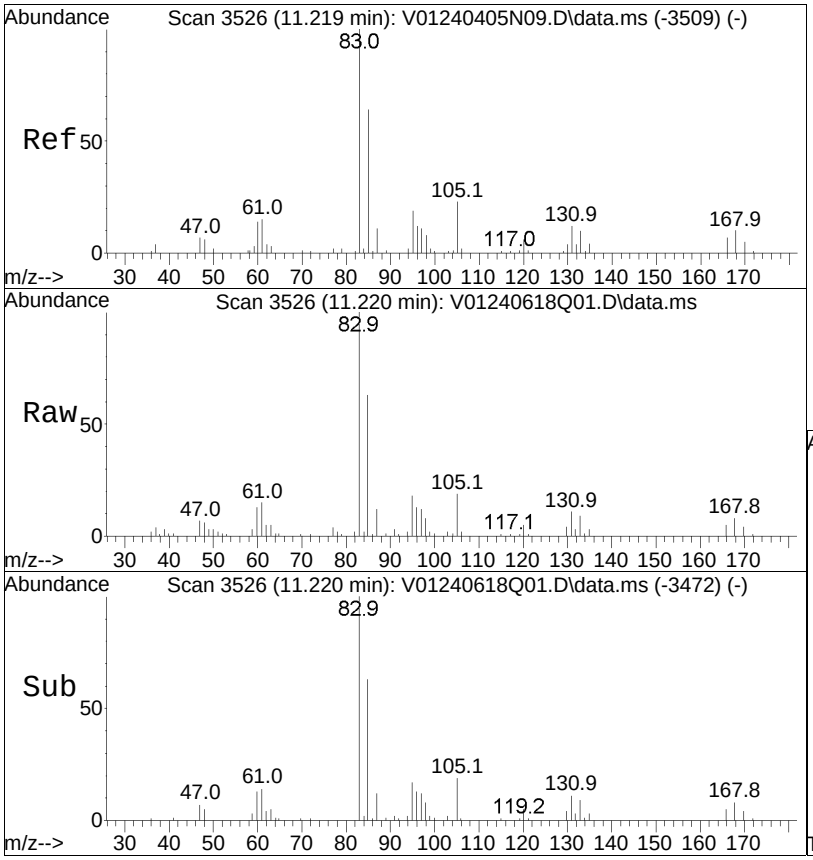


#82
Isopropylbenzene
Concen: 10.79 ug/L
RT: 10.642 min Scan# 3319
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:105 Resp: 373194

Ion	Ratio	Lower	Upper
105	100		
120	25.4	7.3	47.3

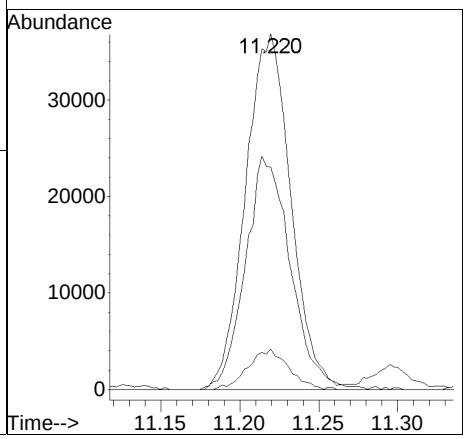


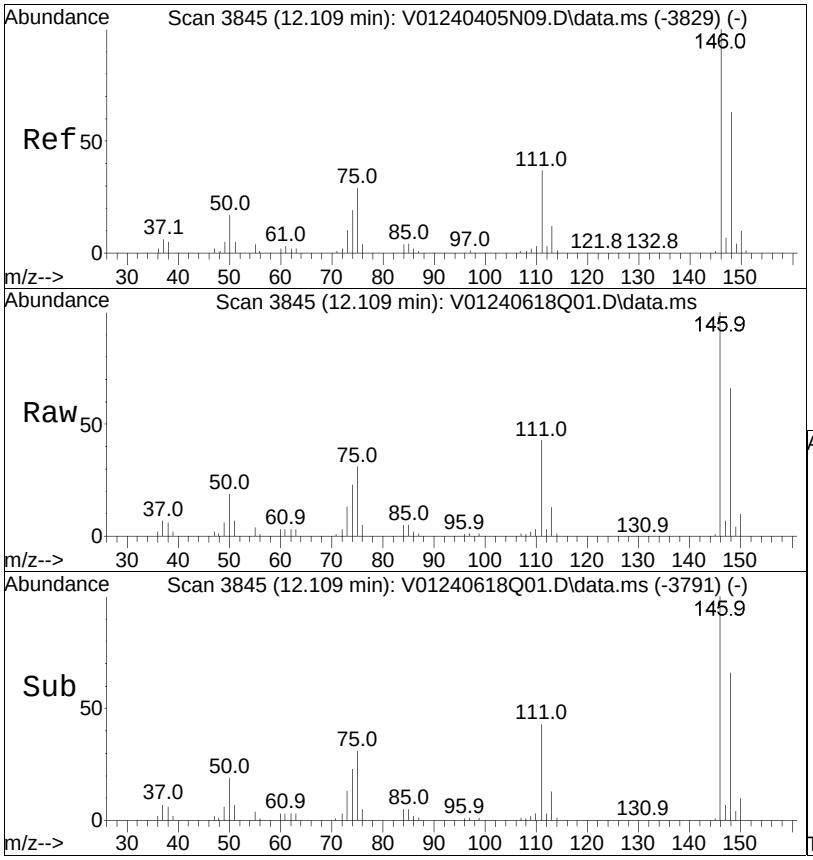


#87
1,1,2,2-Tetrachloroethane
Concen: 13.32 ug/L
RT: 11.220 min Scan# 3526
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion: 83 Resp: 73571

Ion	Ratio	Lower	Upper
83	100		
131	10.0	0.0	30.1
85	64.9	45.8	85.8

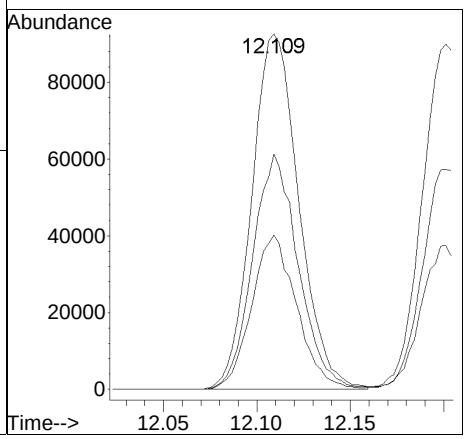


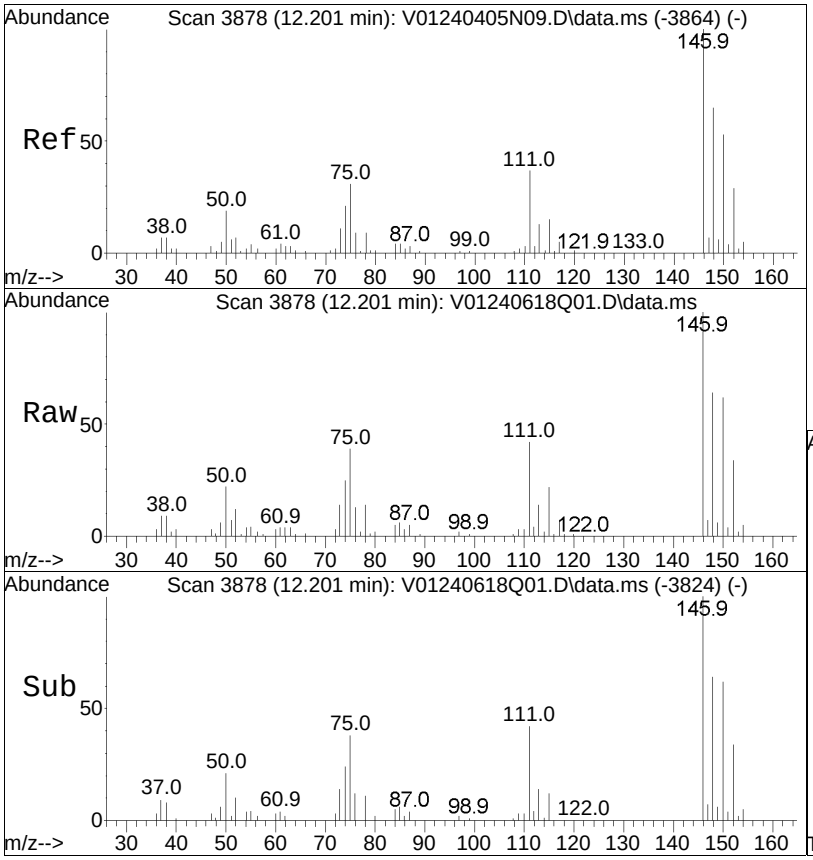


#100
1,3-Dichlorobenzene
Concen: 10.38 ug/L
RT: 12.109 min Scan# 3845
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:146 Resp: 162507

Ion	Ratio	Lower	Upper
146	100		
111	41.5	25.9	53.9
148	64.0	41.5	86.3

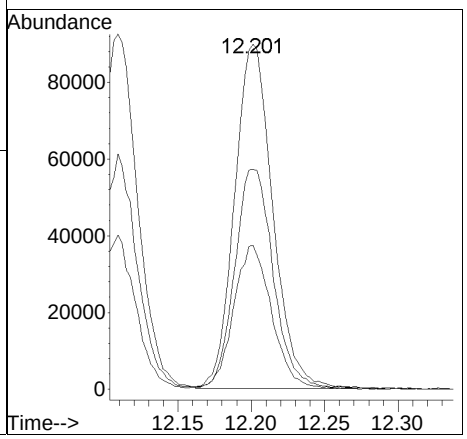


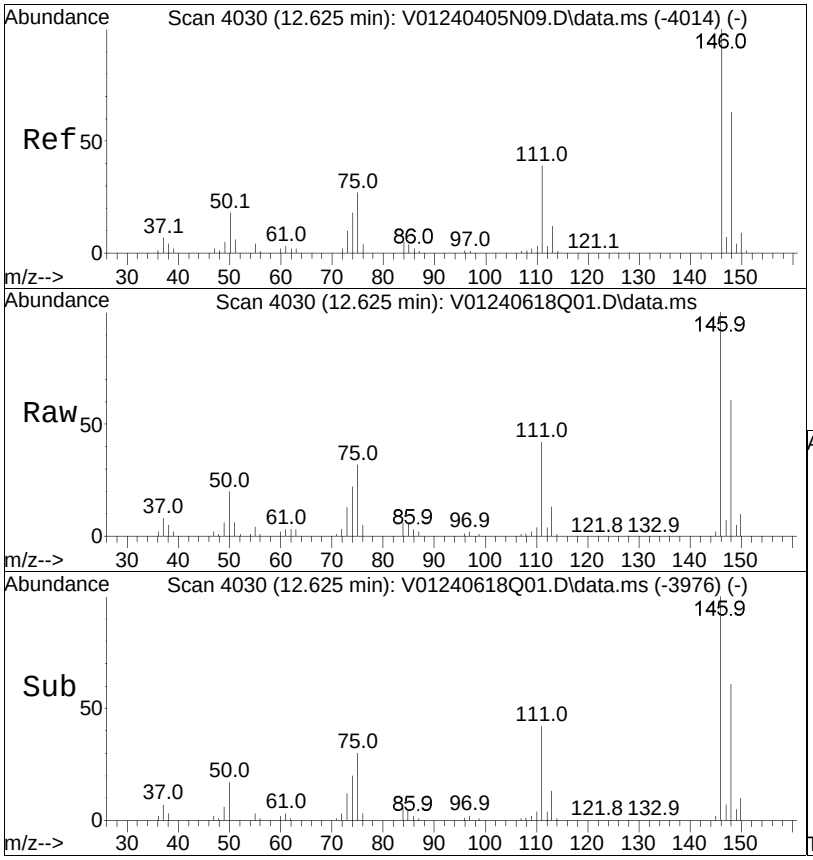


#101
1,4-Dichlorobenzene
Concen: 10.20 ug/L
RT: 12.201 min Scan# 3878
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:146 Resp: 162747

Ion	Ratio	Lower	Upper
146	100		
111	42.2	31.7	47.5
148	63.2	51.5	77.3

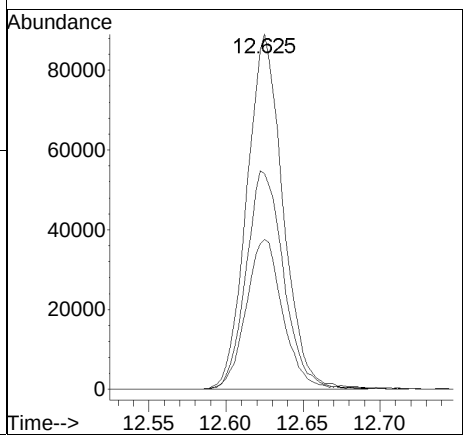


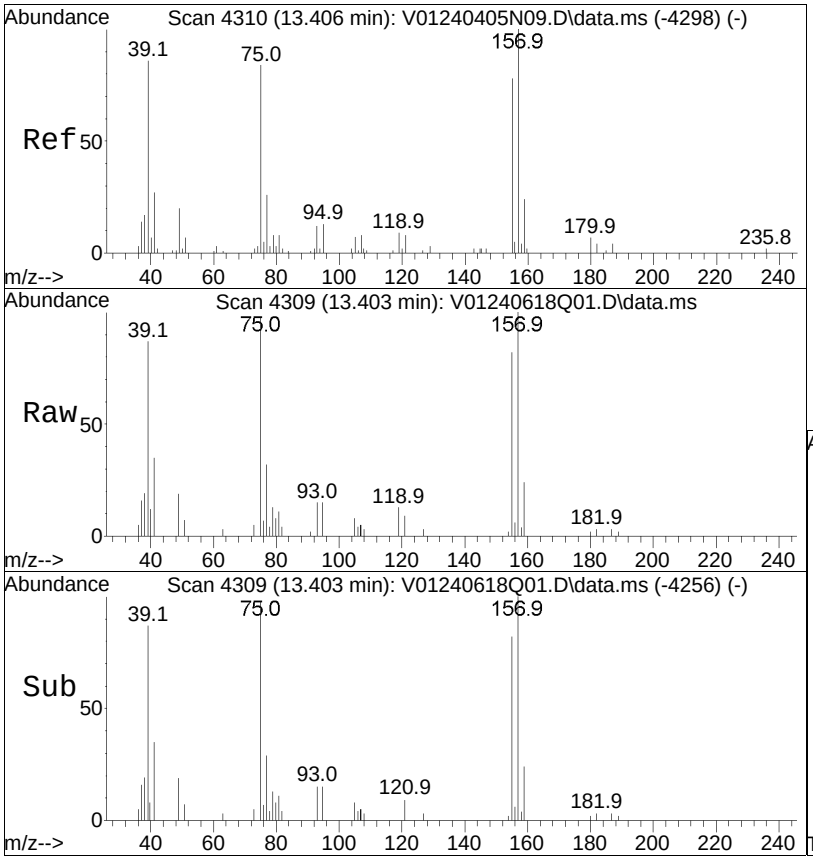


#104
1,2-Dichlorobenzene
Concen: 10.37 ug/L
RT: 12.625 min Scan# 4030
Delta R.T. 0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:146 Resp: 146134

Ion	Ratio	Lower	Upper
146	100		
111	42.9	26.8	55.8
148	63.5	41.6	86.4

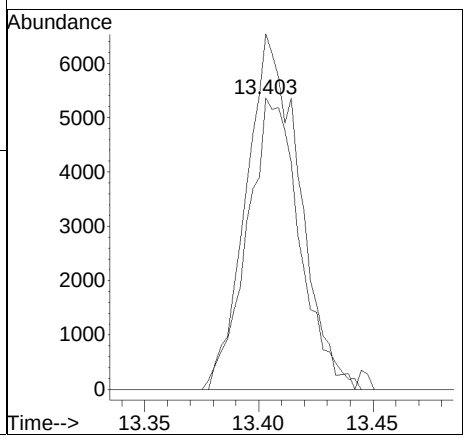


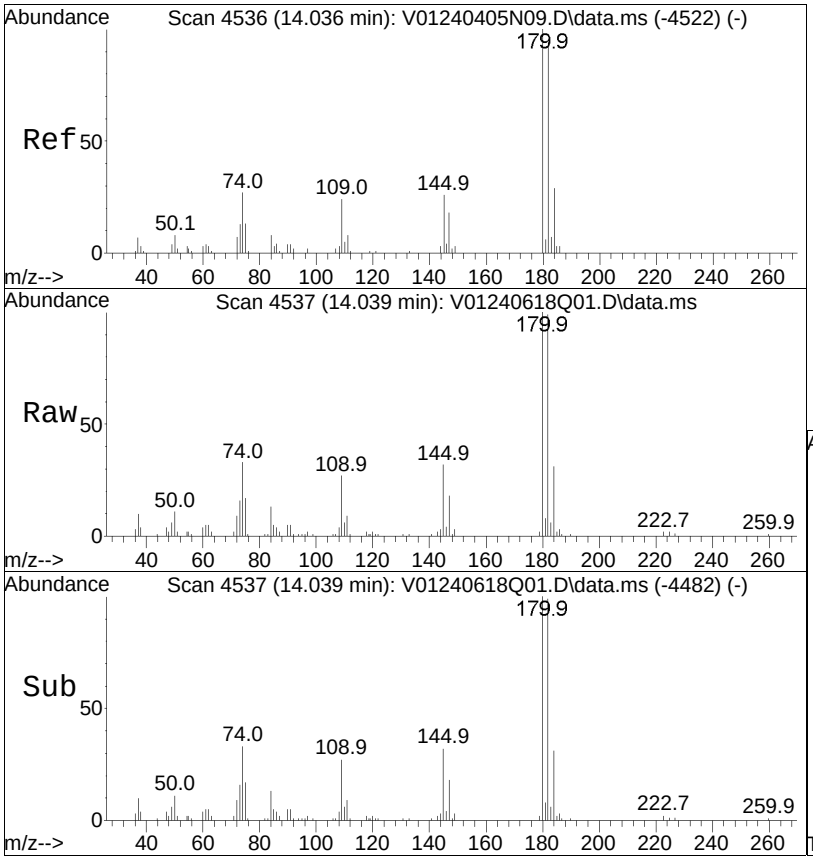


#106
1,2-Dibromo-3-chloropropane
Concen: 10.32 ug/L
RT: 13.403 min Scan# 4309
Delta R.T. -0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:155 Resp: 8608

Ion	Ratio	Lower	Upper
155	100		
157	122.2	101.1	151.7

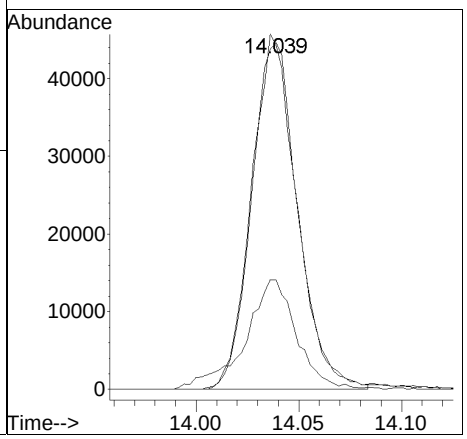


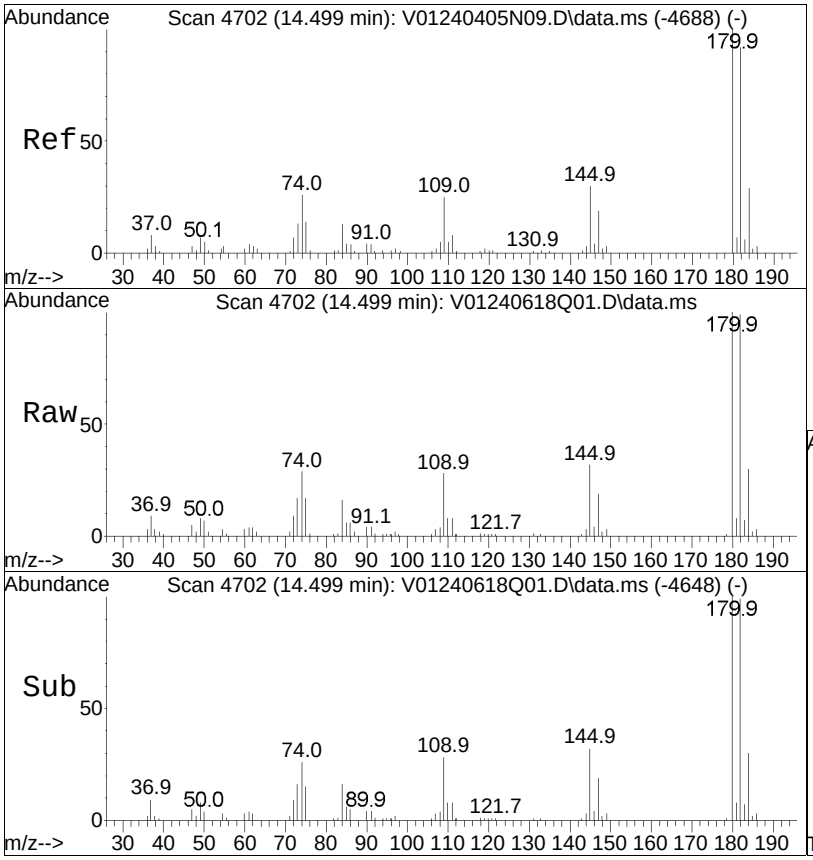


#109
1,2,4-Trichlorobenzene
Concen: 8.52 ug/L
RT: 14.039 min Scan# 4537
Delta R.T. 0.003 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:180 Resp: 70965

Ion	Ratio	Lower	Upper
180	100		
182	98.3	75.8	113.8
145	34.6	26.1	39.1

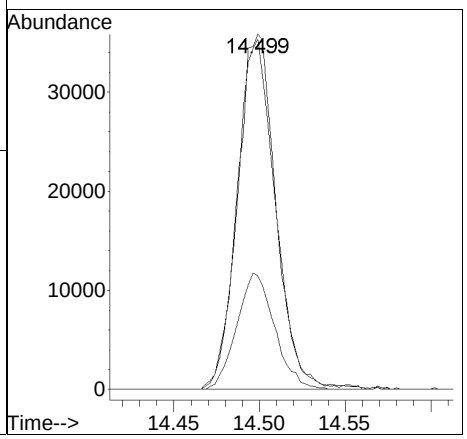




#111
1,2,3-Trichlorobenzene
Concen: 8.68 ug/L
RT: 14.499 min Scan# 4702
Delta R.T. -0.000 min
Lab File: V01240618Q01.D
Acq: 18 Jun 2024 7:04 pm

Tgt Ion:180 Resp: 56285

Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.4	113.0
145	32.0	25.0	37.6



Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q02.D
Acq On : 18 Jun 2024 7:30 pm
Operator : VOA101:LAC
Sample : WG1936583-4,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 19:55:05 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.952	96	331322	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 103.11%			
59) Chlorobenzene-d5	9.471	117	246327	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 103.09%			
79) 1,4-Dichlorobenzene-d4	12.184	152	138109	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 101.16%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.149	113	90210	10.113	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.13%			
43) 1,2-Dichloroethane-d4	5.670	65	107820	10.544	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.44%			
60) Toluene-d8	7.631	98	323765	10.078	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.78%			
83) 4-Bromofluorobenzene	10.971	95	121603	10.164	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.646	85	94321	9.487	ug/L	98
3) Chloromethane	1.839	50	82916	8.514	ug/L	100
4) Vinyl chloride	1.903	62	87043	11.304	ug/L	99
5) Bromomethane	2.204	94	19660	3.879	ug/L	96
6) Chloroethane	2.318	64	52116	11.130	ug/L	99
7) Trichlorofluoromethane	2.455	101	126832	10.347	ug/L	97
10) 1,1-Dichloroethene	2.932	96	64107	10.290	ug/L	96
11) Carbon disulfide	2.965	76	195788	10.434	ug/L	99
12) Freon-113	2.971	101	70626	10.701	ug/L	82
15) Methylene chloride	3.478	84	84598	10.334	ug/L	96
17) Acetone	3.529	43	19750	11.647	ug/L	89
18) trans-1,2-Dichloroethene	3.629	96	78297	10.436	ug/L	96
19) Methyl acetate	3.637	43	37436	11.284	ug/L	95
20) Methyl tert-butyl ether	3.727	73	169828	9.556	ug/L	95
23) 1,1-Dichloroethane	4.201	63	154761	10.809	ug/L	99
28) cis-1,2-Dichloroethene	4.716	96	86799	10.450	ug/L	97
30) Bromochloromethane	4.903	128	38822	10.553	ug/L	97
31) Cyclohexane	4.906	56	132900	10.702	ug/L	96
32) Chloroform	4.973	83	157840	11.210	ug/L	97
34) Carbon tetrachloride	5.110	117	130524	11.594	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q02.D
Acq On : 18 Jun 2024 7:30 pm
Operator : VOA101:LAC
Sample : WG1936583-4,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 19:55:05 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.171	97	142115	11.272	ug/L		99
39) 2-Butanone	5.266	43	22674	11.880	ug/L	#	46
41) Benzene	5.536	78	330052	10.902	ug/L		99
44) 1,2-Dichloroethane	5.740	62	108414	11.012	ug/L		98
47) Methyl cyclohexane	6.119	83	135701	10.951	ug/L		96
48) Trichloroethene	6.133	95	91237	10.249	ug/L		96
51) 1,2-Dichloropropane	6.666	63	80650	10.380	ug/L		96
54) Bromodichloromethane	6.744	83	118519	10.737	ug/L		97
58) cis-1,3-Dichloropropene	7.427	75	119320	9.896	ug/L		93
61) Toluene	7.692	92	204847	10.894	ug/L		98
62) 4-Methyl-2-pentanone	8.119	58	16610	9.693	ug/L	#	89
63) Tetrachloroethene	8.141	166	84175	9.711	ug/L		93
65) trans-1,3-Dichloropropene	8.177	75	103099	10.015	ug/L		93
68) 1,1,2-Trichloroethane	8.353	83	54040	11.307	ug/L		99
69) Chlorodibromomethane	8.568	129	76593	10.293	ug/L		96
71) 1,2-Dibromoethane	8.846	107	58148	10.708	ug/L	#	48
72) 2-Hexanone	9.134	43	26952	8.350	ug/L		92
73) Chlorobenzene	9.491	112	220293	10.646	ug/L		98
74) Ethylbenzene	9.527	91	405917	11.069	ug/L		99
76) p/m Xylene	9.714	106	302954	21.453	ug/L		96
77) o Xylene	10.258	106	283228	20.967	ug/L		94
78) Styrene	10.324	104	464888	21.114	ug/L		96
80) Bromoform	10.350	173	44541	10.114	ug/L		100
82) Isopropylbenzene	10.642	105	390097	11.144	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.217	83	74922	13.410	ug/L		98
100) 1,3-Dichlorobenzene	12.109	146	166806	10.533	ug/L		98
101) 1,4-Dichlorobenzene	12.201	146	167867	10.402	ug/L		99
104) 1,2-Dichlorobenzene	12.625	146	149395	10.484	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.403	155	8927	10.575	ug/L		99
109) 1,2,4-Trichlorobenzene	14.036	180	74533	8.850	ug/L		96
111) 1,2,3-Trichlorobenzene	14.499	180	61865	9.434	ug/L		99

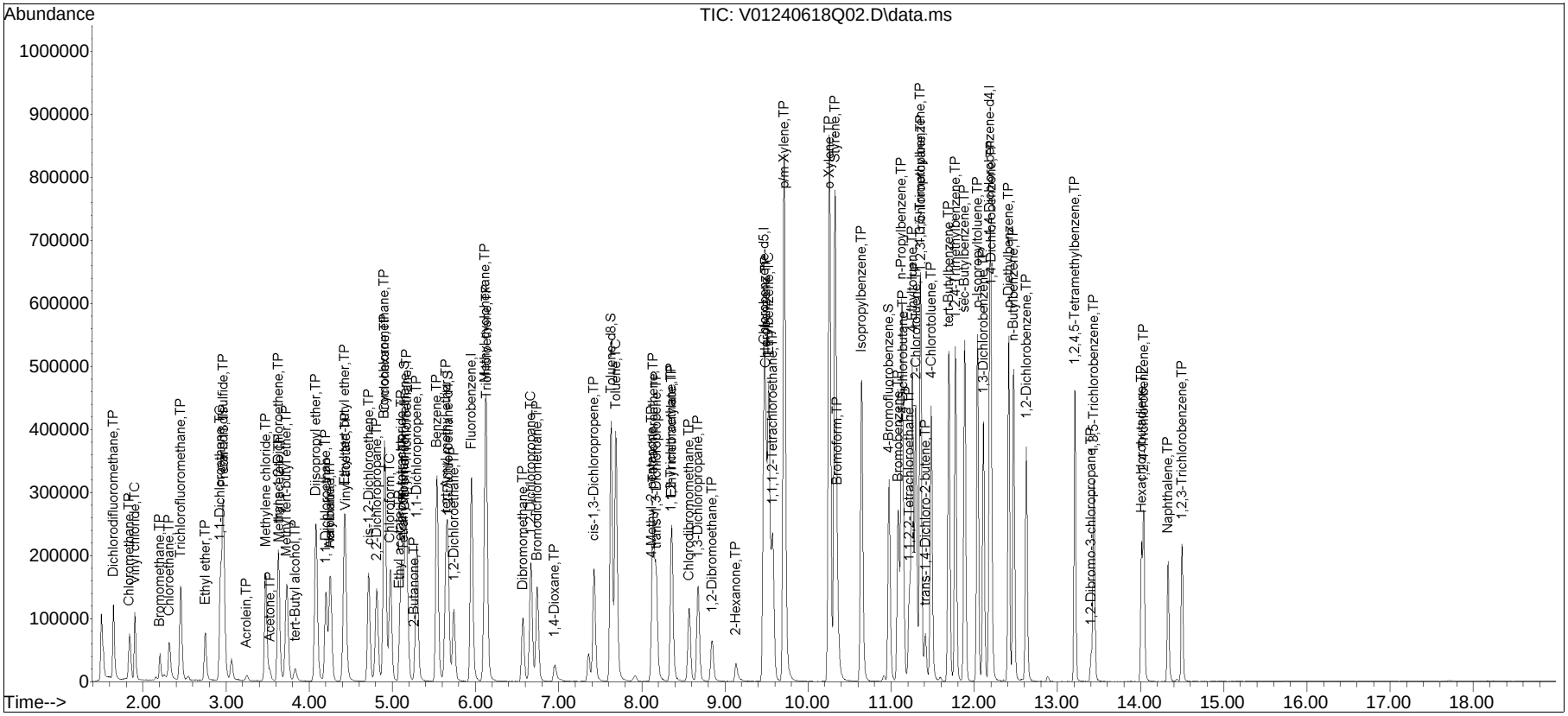
(#) = qualifier out of range (m) = manual integration (+) = signals summed

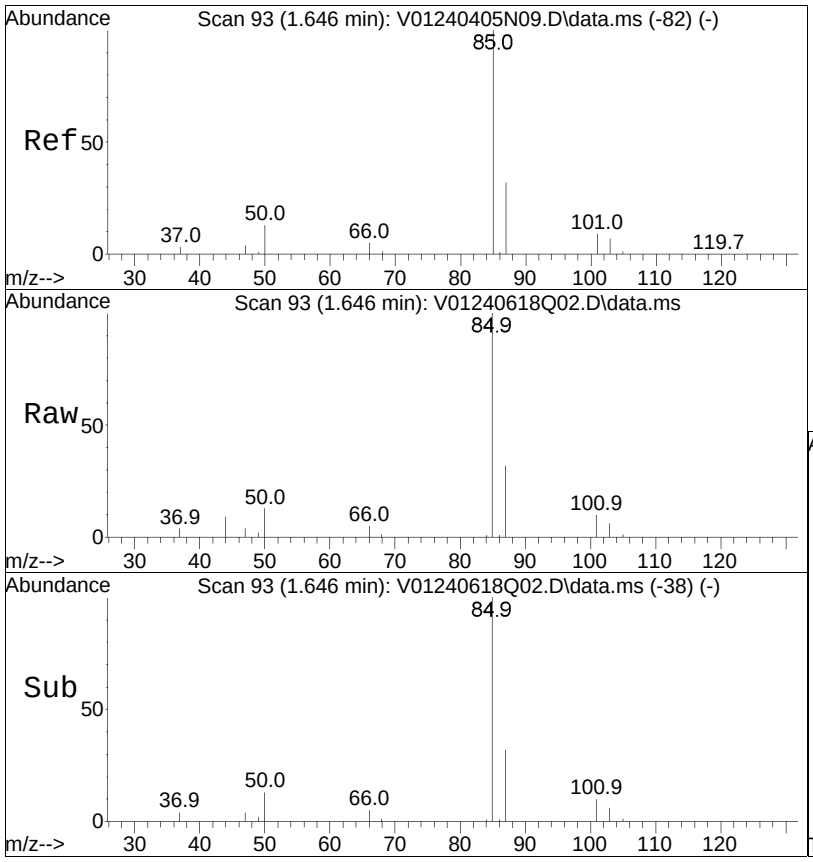
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q02.D
Acq On : 18 Jun 2024 7:30 pm
Operator : VOA101:LAC
Sample : WG1936583-4,31,10,10
Misc : WG1936583,ICAL21103
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 19:55:05 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

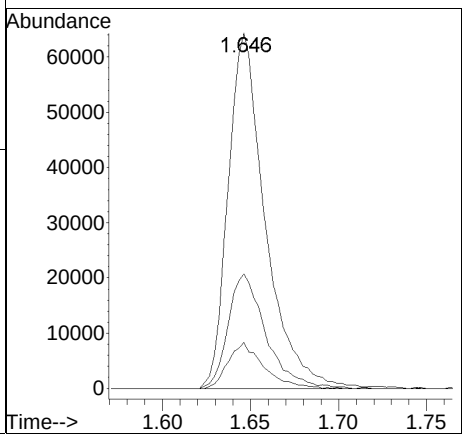


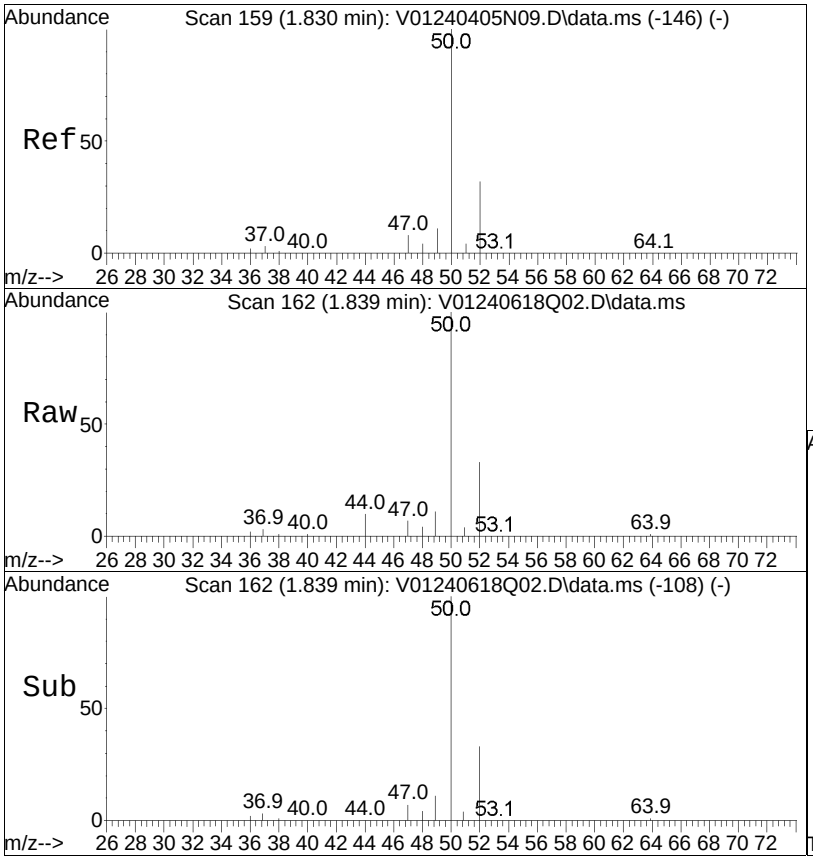


#2
Dichlorodifluoromethane
Concen: 9.49 ug/L
RT: 1.646 min Scan# 93
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 85 Resp: 94321

Ion	Ratio	Lower	Upper
85	100		
87	32.7	20.9	43.5
50	12.4	9.1	18.9

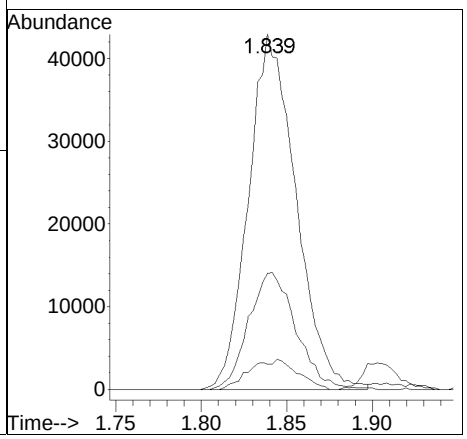


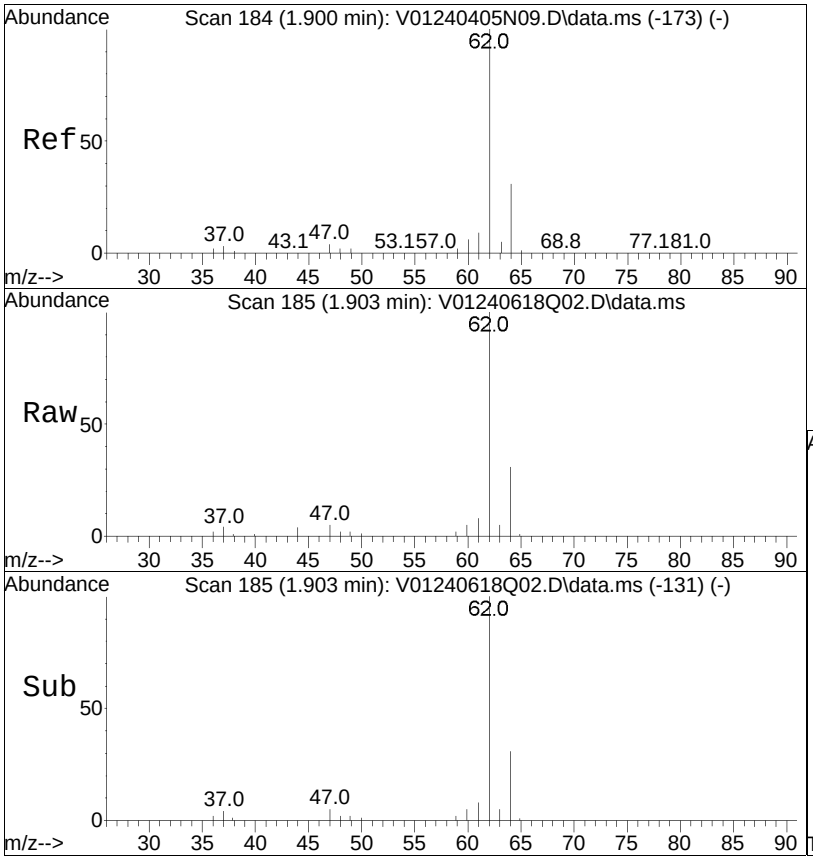


#3
Chloromethane
Concen: 8.51 ug/L
RT: 1.839 min Scan# 162
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 50 Resp: 82916

Ion	Ratio	Lower	Upper
50	100		
52	32.8	12.8	52.8
47	8.6	0.0	28.3

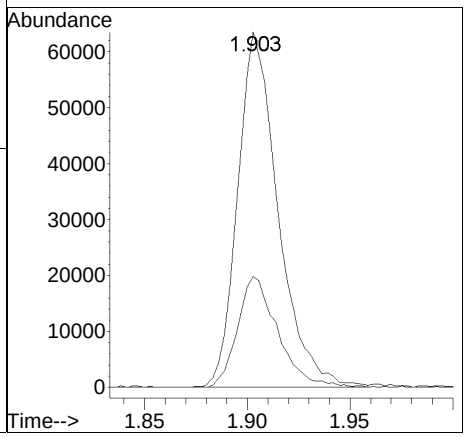


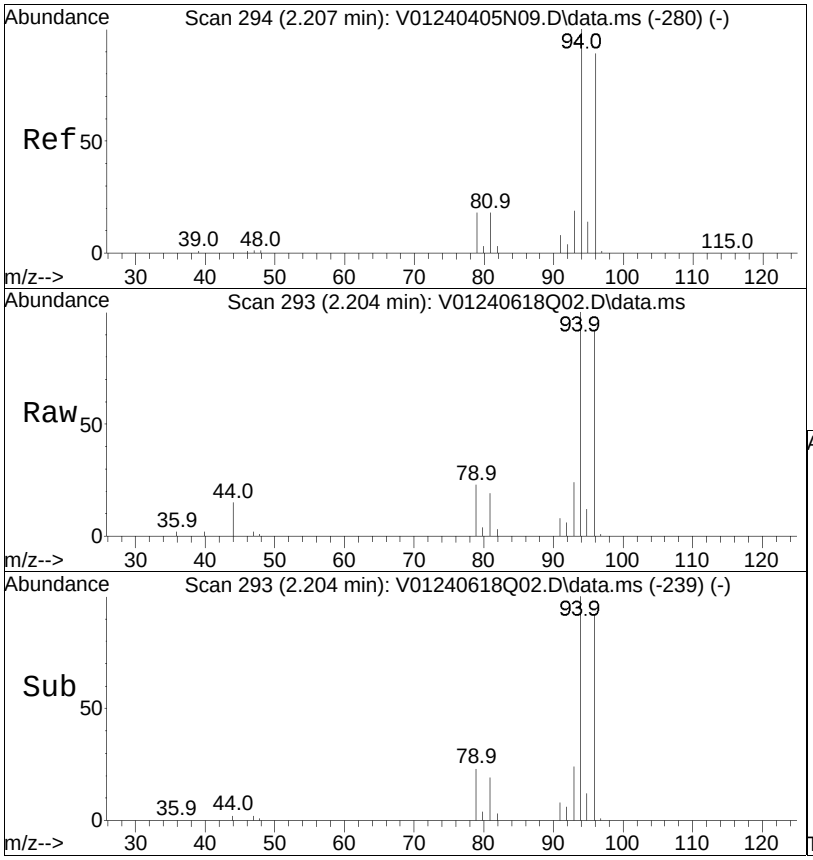


#4
Vinyl chloride
Concen: 11.30 ug/L
RT: 1.903 min Scan# 185
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 62 Resp: 87043

Ion	Ratio	Lower	Upper
62	100		
64	31.2	10.8	50.8

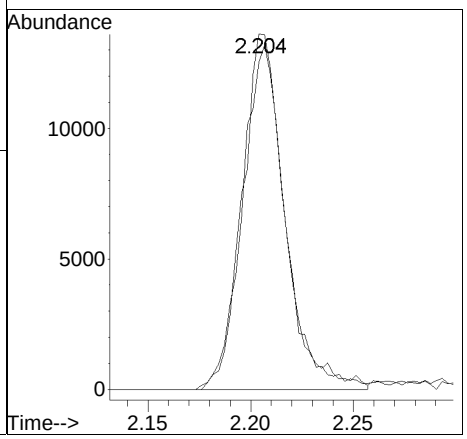


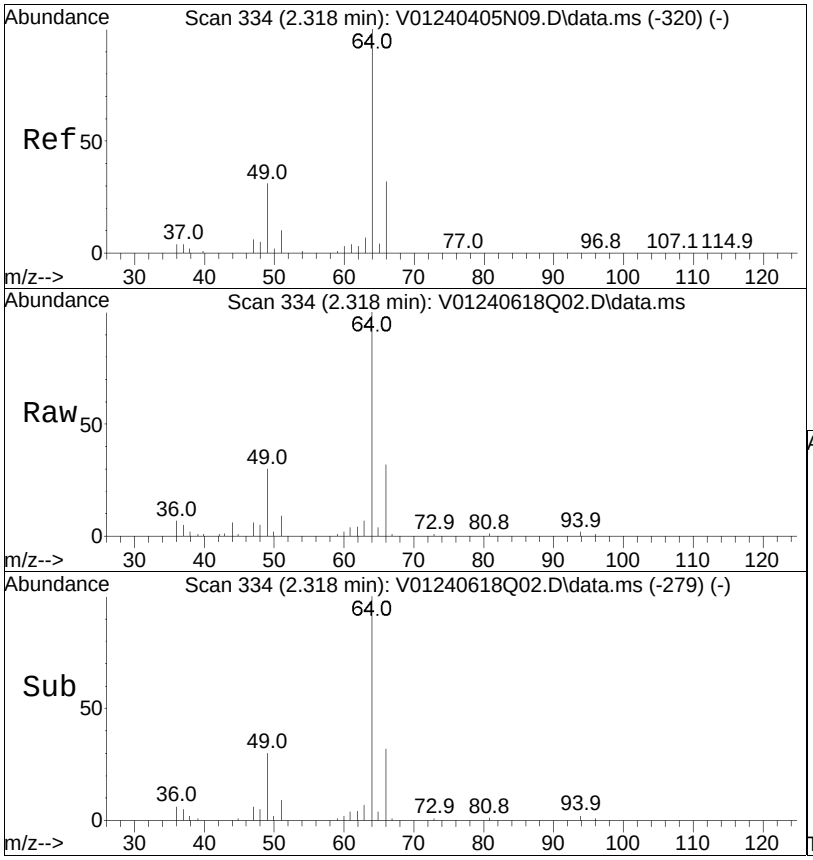


#5
Bromomethane
Concen: 3.88 ug/L
RT: 2.204 min Scan# 293
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 94 Resp: 19660

Ion	Ratio	Lower	Upper
94	100		
96	97.8	73.6	113.6

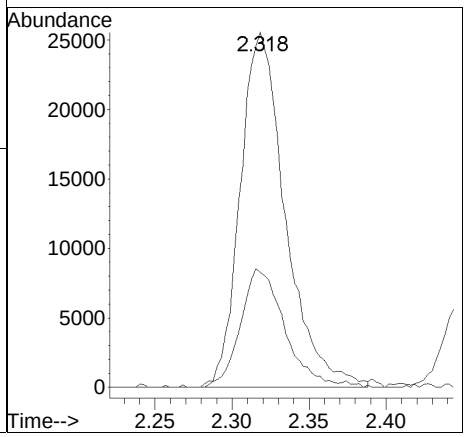


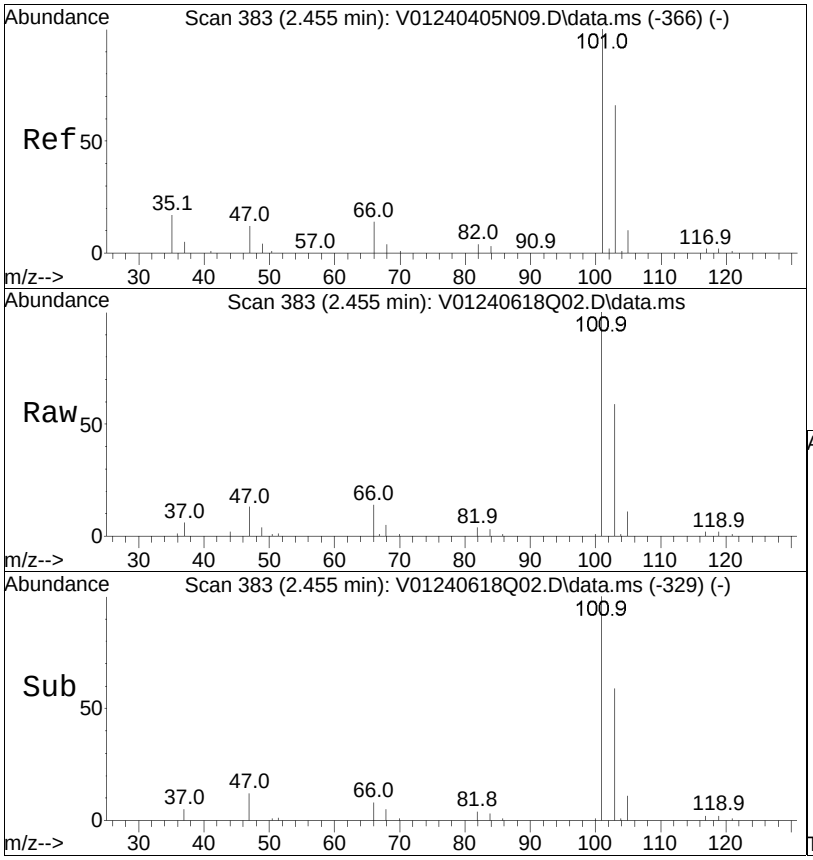


#6
Chloroethane
Concen: 11.13 ug/L
RT: 2.318 min Scan# 334
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 64 Resp: 52116

Ion	Ratio	Lower	Upper
64	100		
66	32.4	12.7	52.7

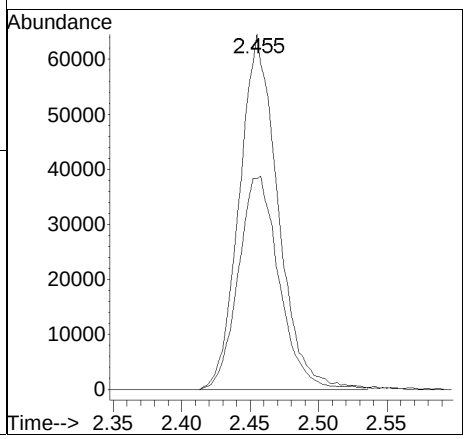


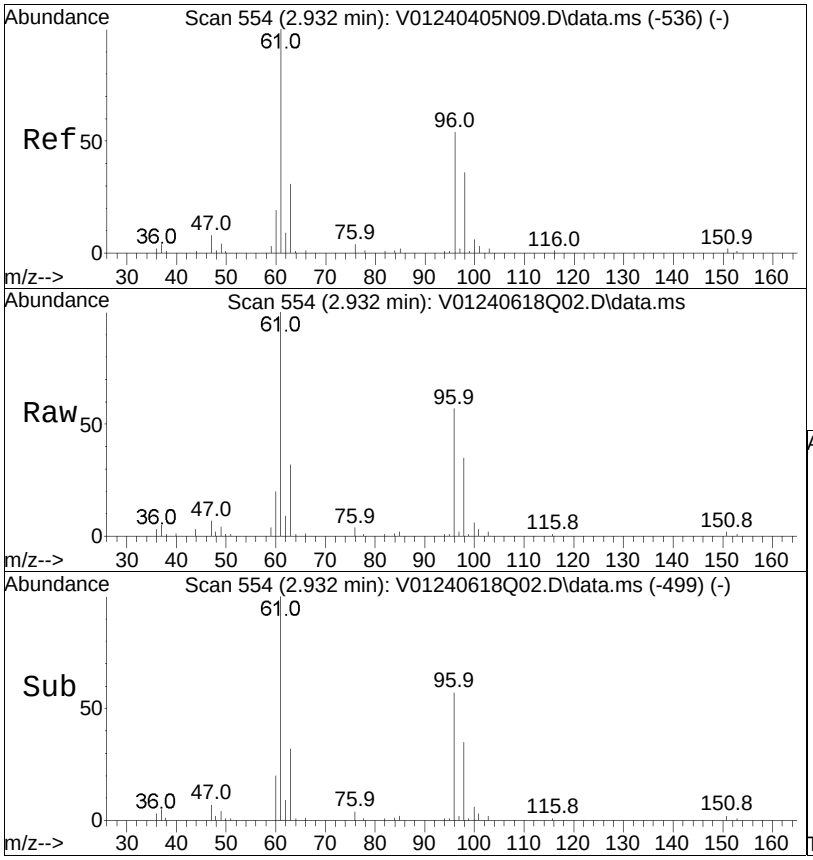


#7
Trichlorofluoromethane
Concen: 10.35 ug/L
RT: 2.455 min Scan# 383
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:101 Resp: 126832

Ion	Ratio	Lower	Upper
101	100		
103	62.9	52.3	78.5

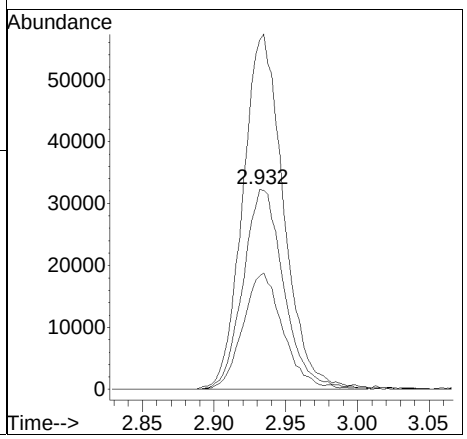


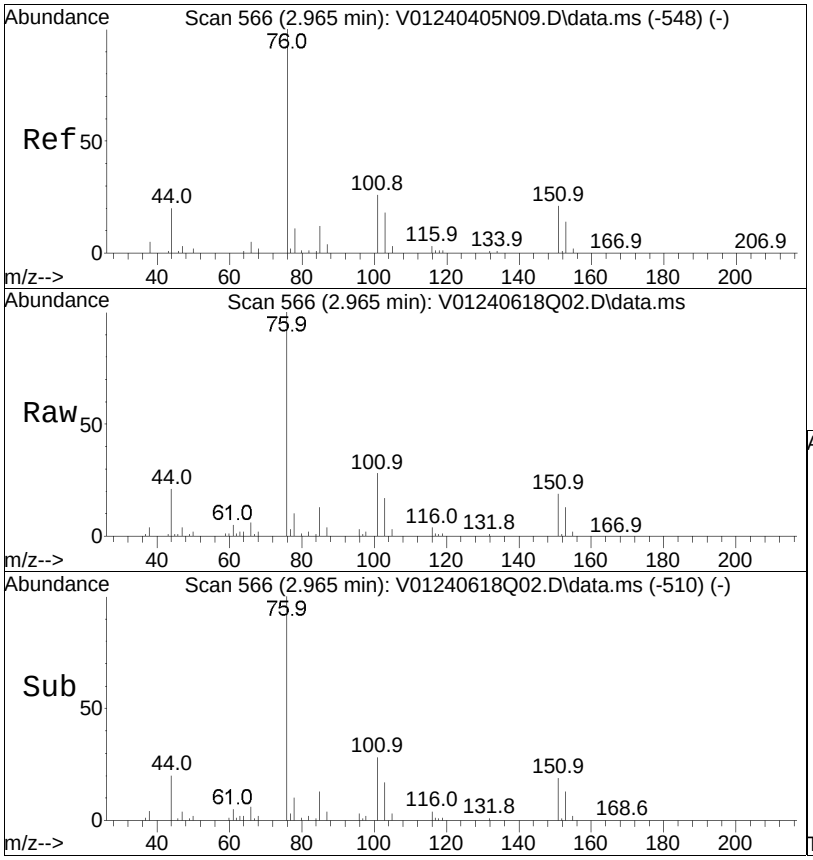


#10
1,1-Dichloroethene
Concen: 10.29 ug/L
RT: 2.932 min Scan# 554
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 96 Resp: 64107

Ion	Ratio	Lower	Upper
96	100		
61	177.2	136.8	205.2
63	57.5	43.6	65.4

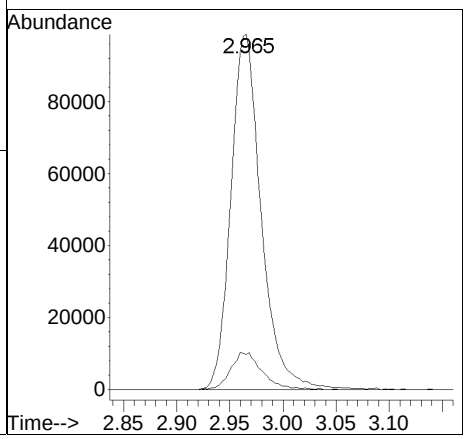


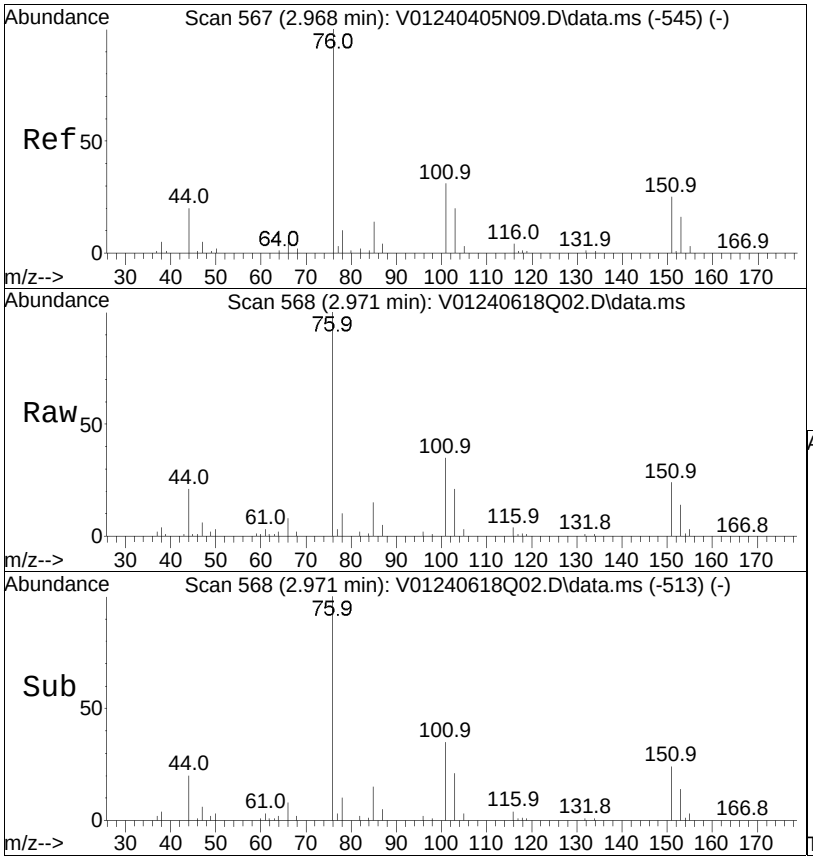


#11
Carbon disulfide
Concen: 10.43 ug/L
RT: 2.965 min Scan# 566
Delta R.T. 0.005 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 76 Resp: 195788

Ion	Ratio	Lower	Upper
76	100		
78	10.7	6.6	13.8

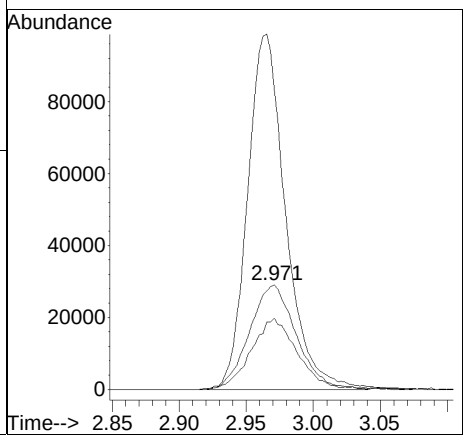


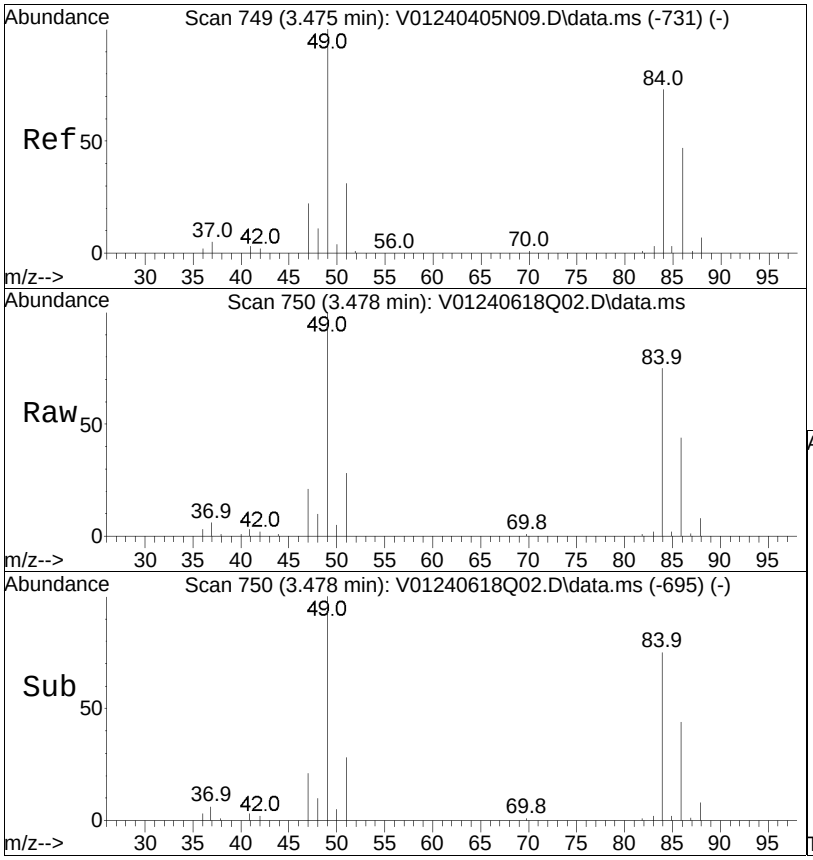


#12
Freon-113
Concen: 10.70 ug/L
RT: 2.971 min Scan# 568
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:101 Resp: 70626

Ion	Ratio	Lower	Upper
101	100		
151	66.0	61.2	91.8
76	277.2	194.8	292.2

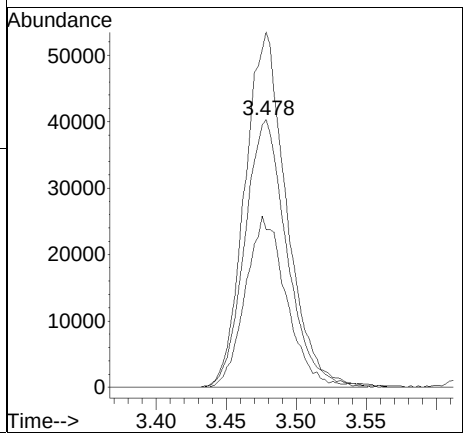


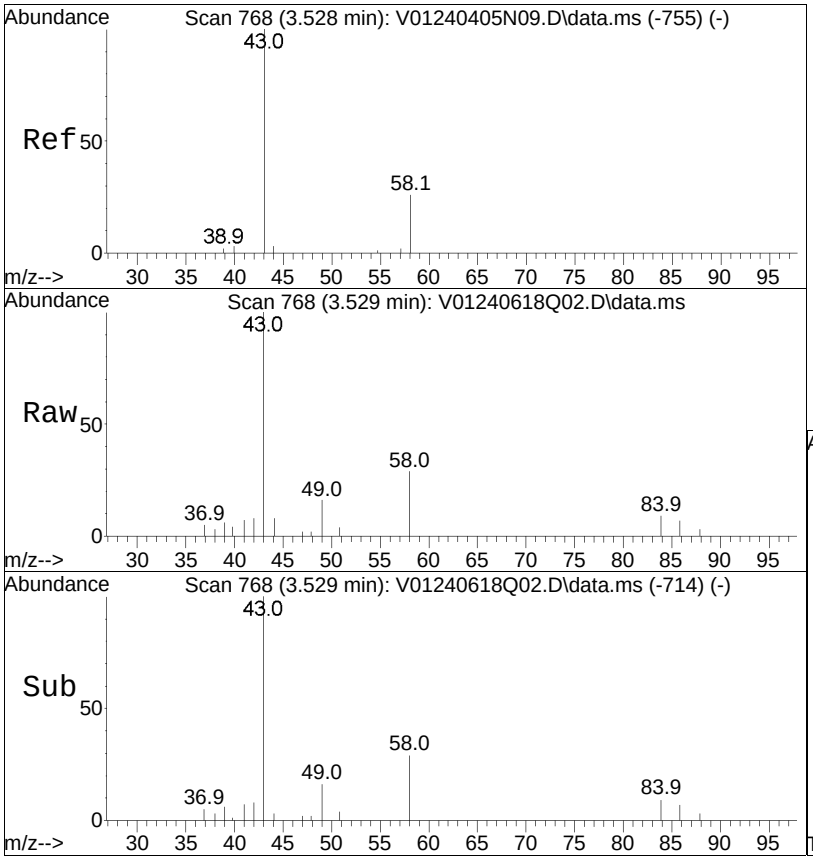


#15
Methylene chloride
Concen: 10.33 ug/L
RT: 3.478 min Scan# 750
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 84 Resp: 84598

Ion	Ratio	Lower	Upper
84	100		
86	62.5	41.7	86.7
49	131.8	89.1	185.1

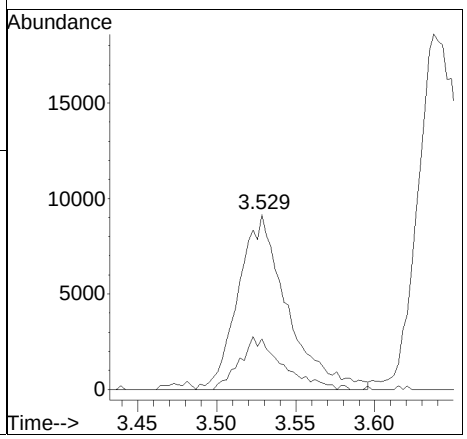


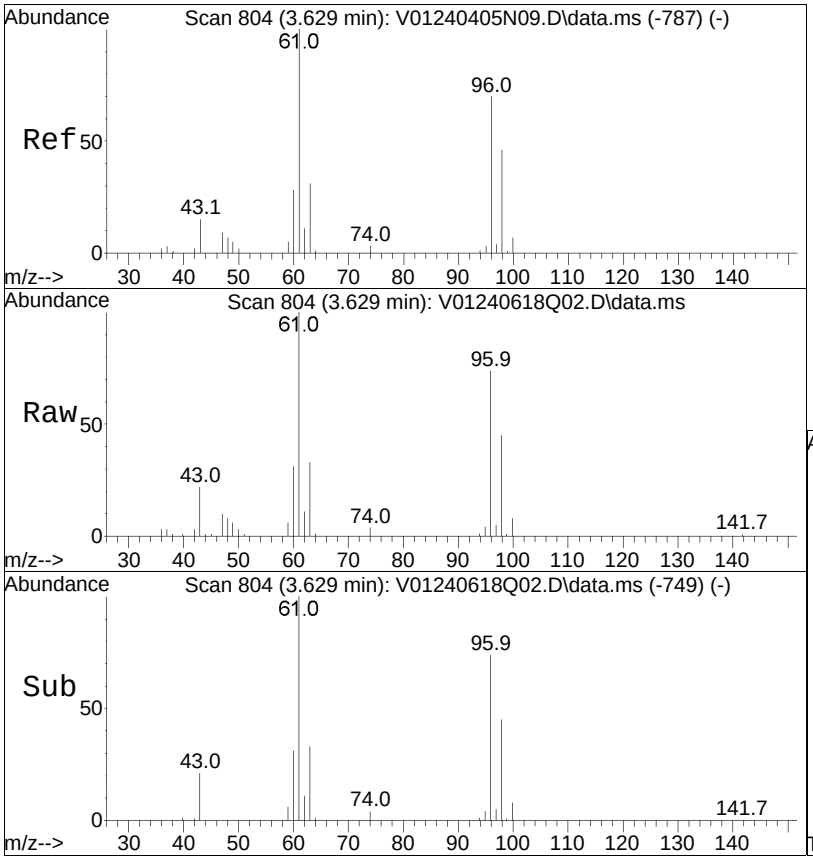


#17
Acetone
Concen: 11.65 ug/L
RT: 3.529 min Scan# 768
Delta R.T. 0.001 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 43 Resp: 19750

Ion	Ratio	Lower	Upper
43	100		
58	26.1	25.9	38.9

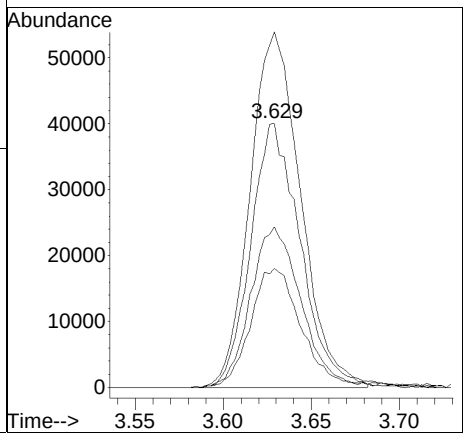


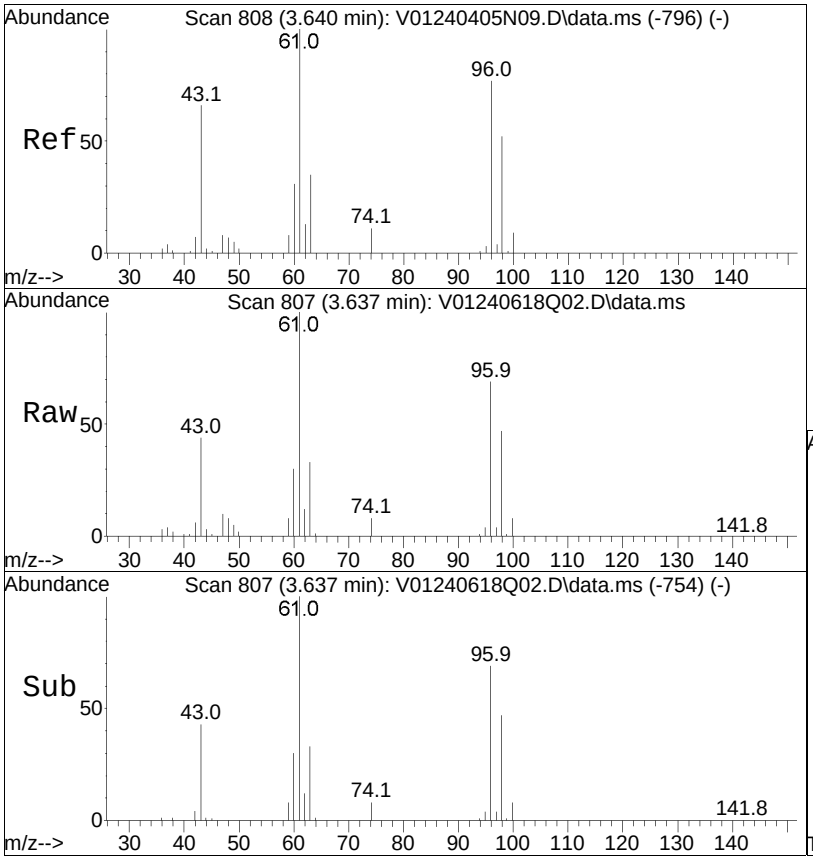


#18
trans-1,2-Dichloroethene
Concen: 10.44 ug/L
RT: 3.629 min Scan# 804
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 96 Resp: 78297

Ion	Ratio	Lower	Upper
96	100		
61	138.4	95.3	197.9
98	62.2	41.0	85.2
63	45.8	30.2	62.6

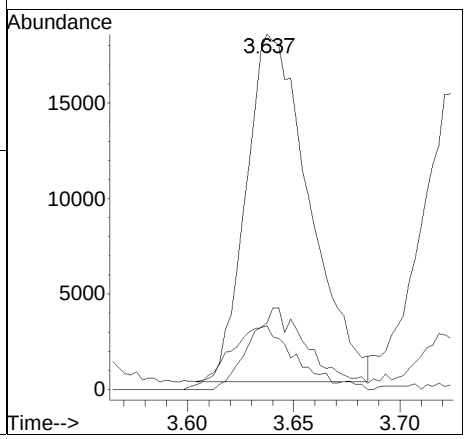


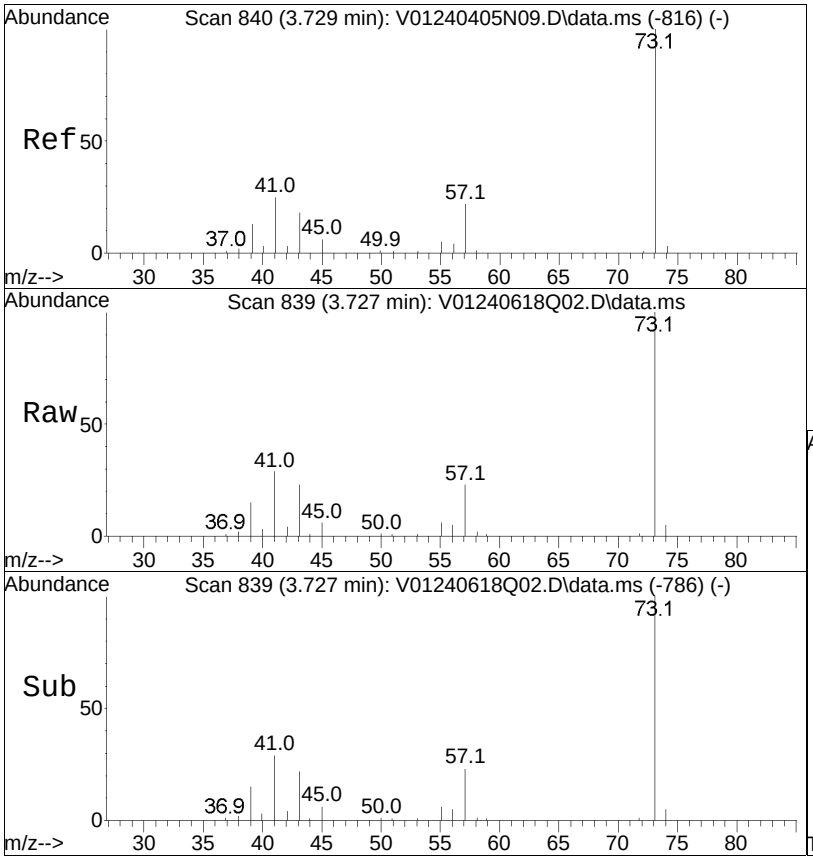


#19
Methyl acetate
Concen: 11.28 ug/L
RT: 3.637 min Scan# 807
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 43 Resp: 37436

Ion	Ratio	Lower	Upper
43	100		
74	22.0	18.2	27.2
59	18.8	18.2	27.2

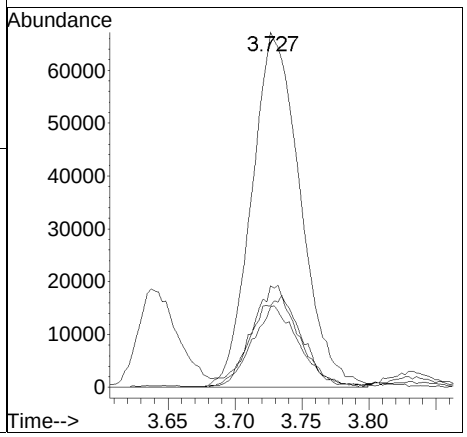


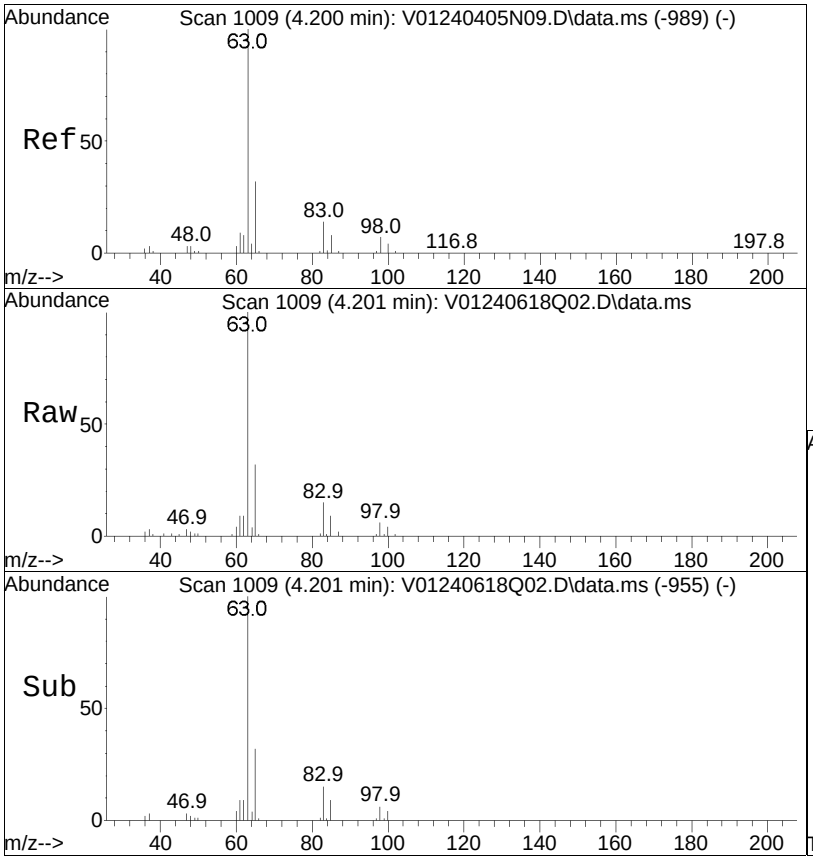


#20
Methyl tert-butyl ether
Concen: 9.56 ug/L
RT: 3.727 min Scan# 839
Delta R.T. -0.002 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 73 Resp: 169828

Ion	Ratio	Lower	Upper
73	100		
57	22.1	14.8	30.6
43	24.2	15.5	32.3
41	27.8	14.1	29.3

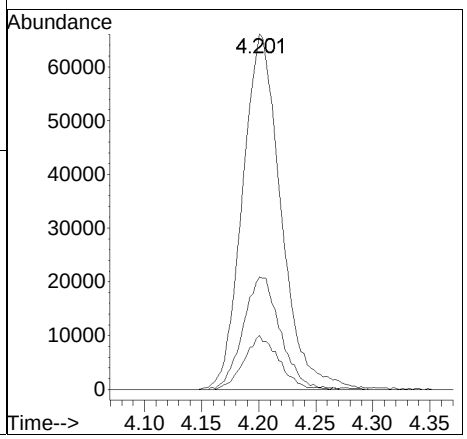


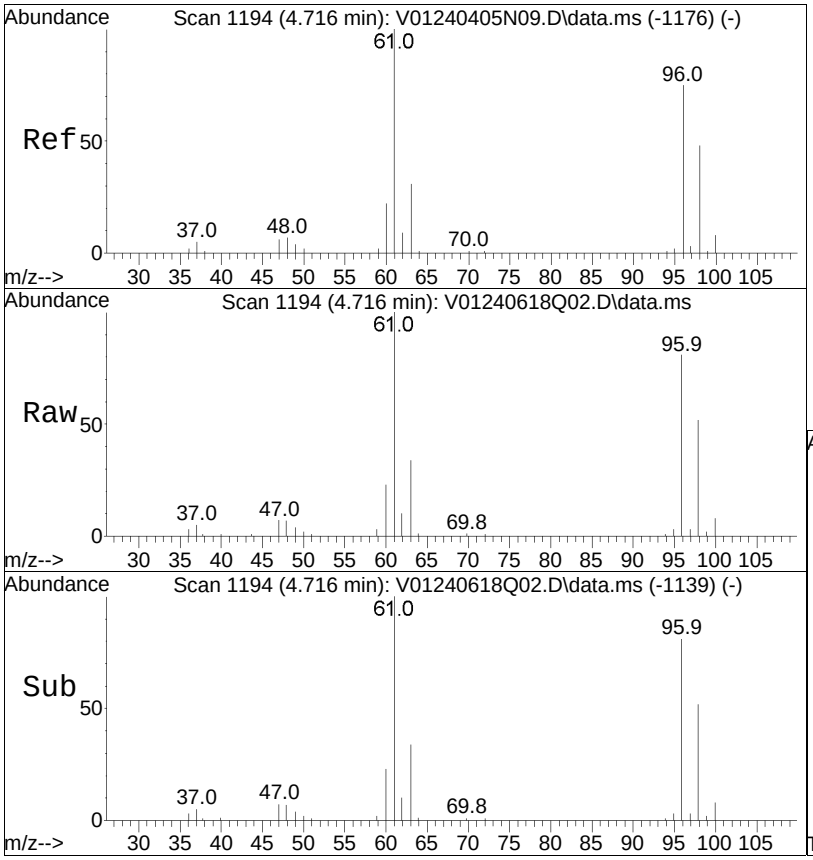


#23
1,1-Dichloroethane
Concen: 10.81 ug/L
RT: 4.201 min Scan# 1009
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 63 Resp: 154761

Ion	Ratio	Lower	Upper
63	100		
65	30.6	10.9	50.9
83	13.8	0.0	33.0

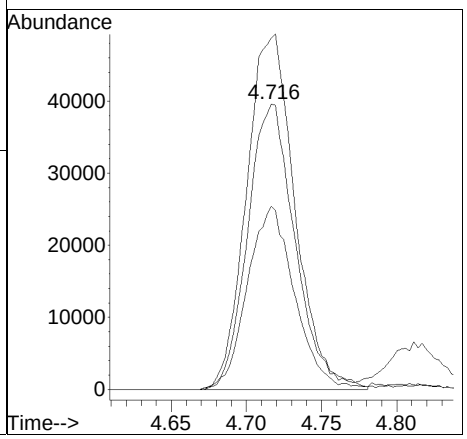


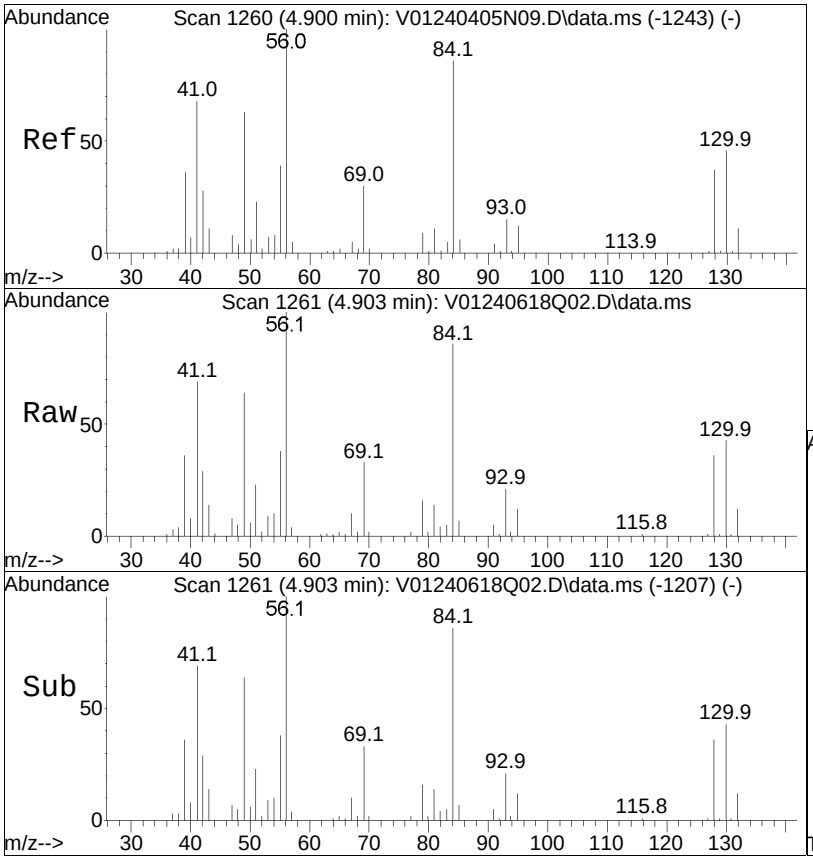


#28
cis-1,2-Dichloroethene
Concen: 10.45 ug/L
RT: 4.716 min Scan# 1194
Delta R.T. 0.002 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 96 Resp: 86799

Ion	Ratio	Lower	Upper
96	100		
61	127.1	105.8	158.6
98	63.9	51.1	76.7

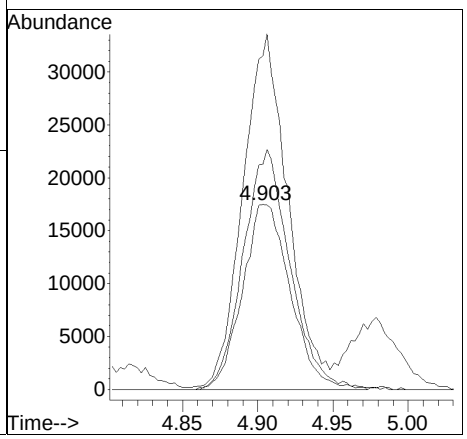


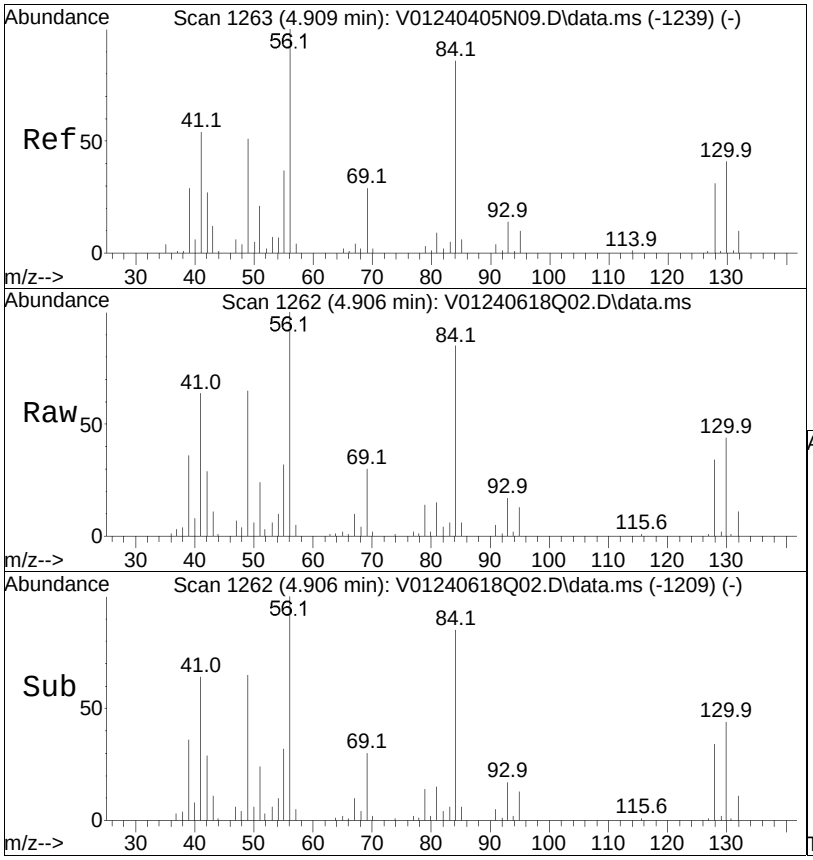


#30
Bromochloromethane
Concen: 10.55 ug/L
RT: 4.903 min Scan# 1261
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:128 Resp: 38822

Ion	Ratio	Lower	Upper
128	100		
49	181.3	140.4	210.6
130	126.6	103.1	154.7

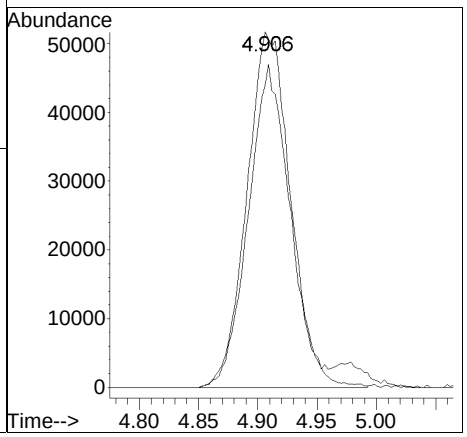


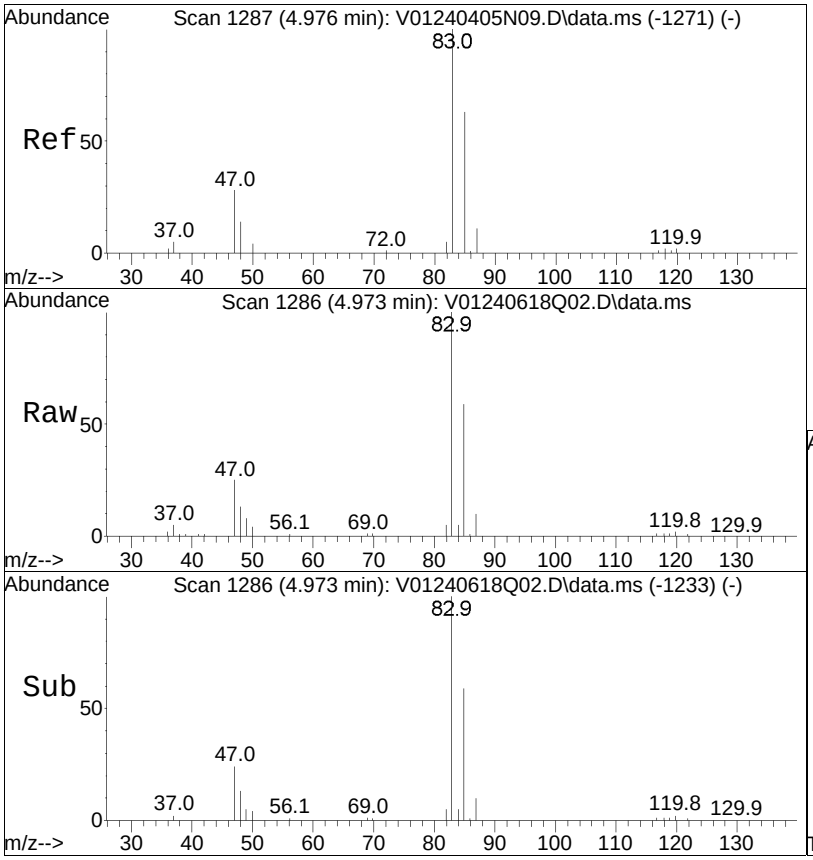


#31
Cyclohexane
Concen: 10.70 ug/L
RT: 4.906 min Scan# 1262
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 56 Resp: 132900

Ion	Ratio	Lower	Upper
56	100		
84	86.5	53.6	111.4

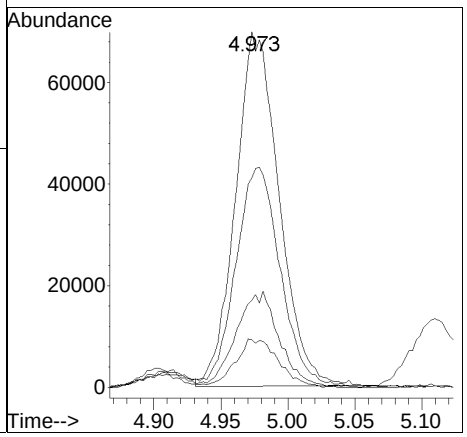


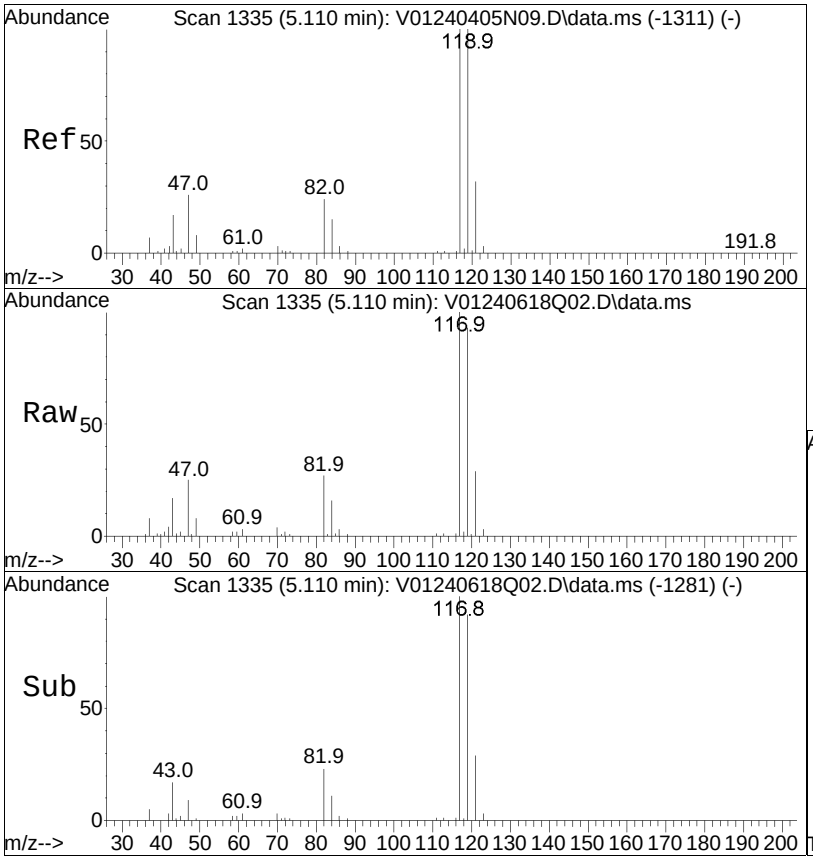


#32
Chloroform
Concen: 11.21 ug/L
RT: 4.973 min Scan# 1286
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 83 Resp: 157840

Ion	Ratio	Lower	Upper
83	100		
85	62.8	42.3	87.8
47	26.1	17.8	37.0
48	13.5	9.3	19.3

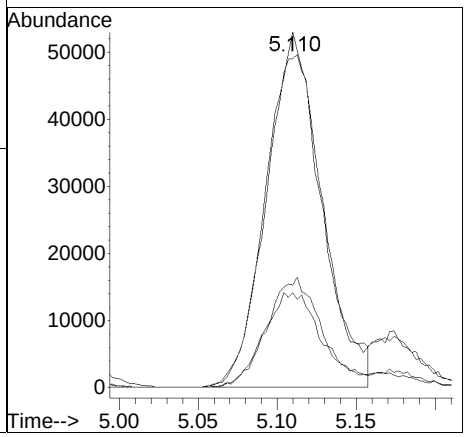


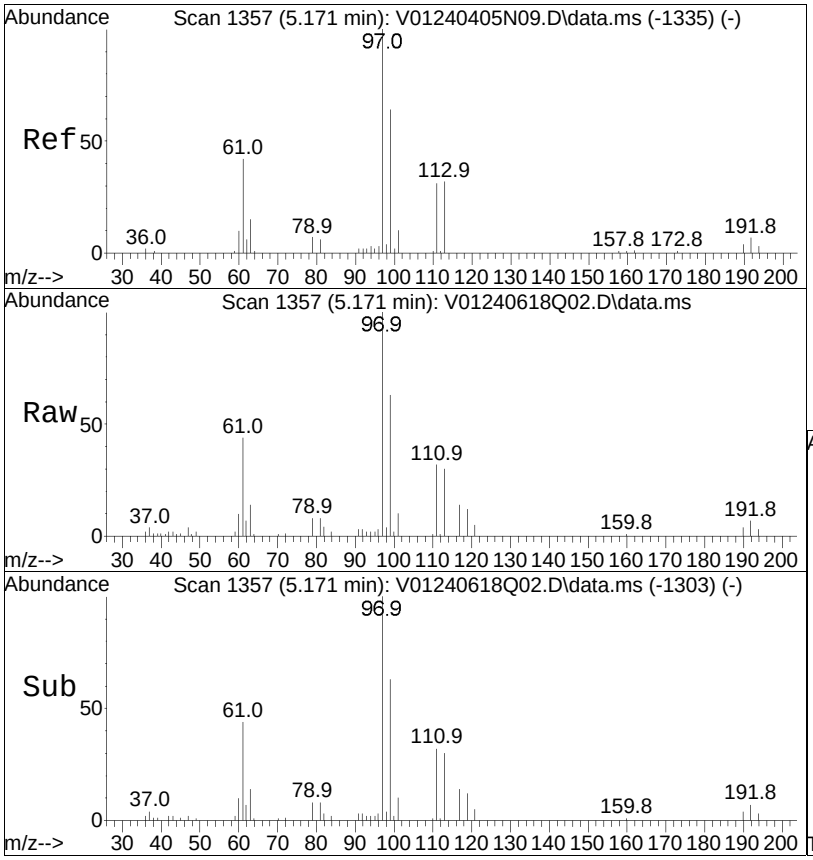


#34
Carbon tetrachloride
Concen: 11.59 ug/L
RT: 5.110 min Scan# 1335
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:117 Resp: 130524

Ion	Ratio	Lower	Upper
117	100		
119	95.7	62.1	128.9
121	31.0	19.8	41.0
82	27.9	17.1	35.5

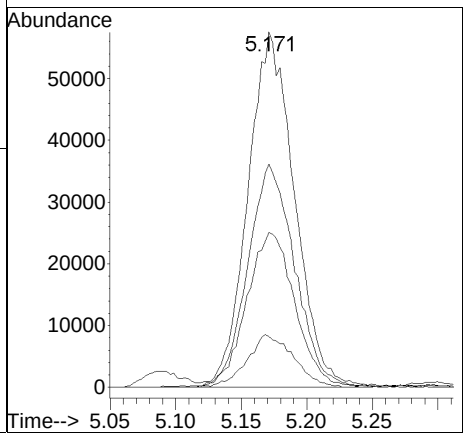


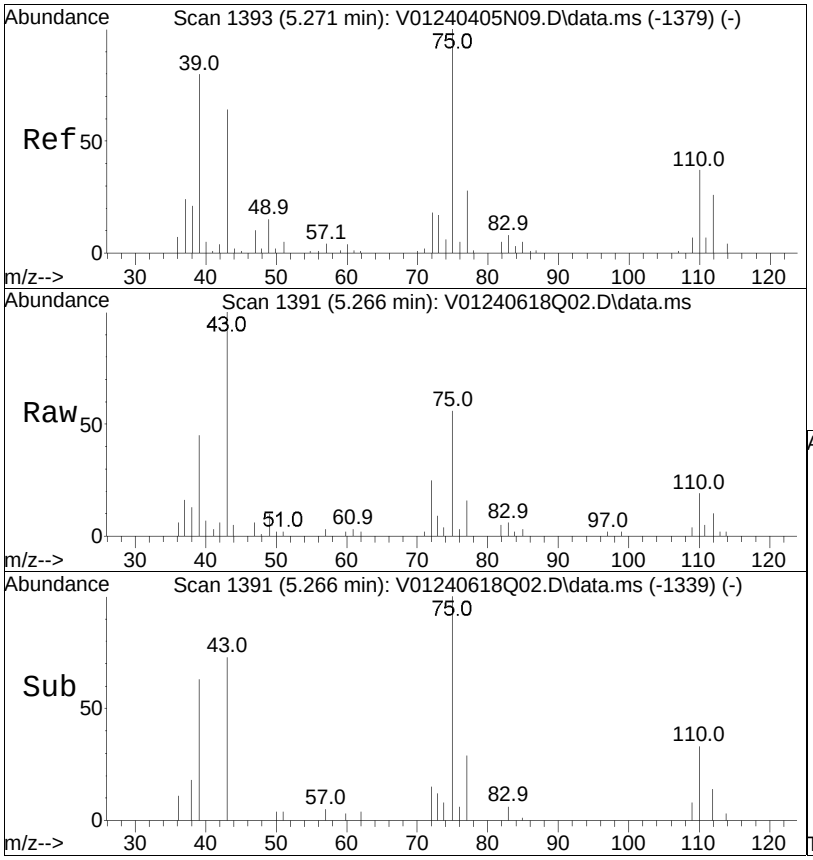


#37
1,1,1-Trichloroethane
Concen: 11.27 ug/L
RT: 5.171 min Scan# 1357
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 97 Resp: 142115

Ion	Ratio	Lower	Upper
97	100		
99	63.5	41.7	86.7
61	44.2	29.4	61.2
63	14.8	9.4	19.4

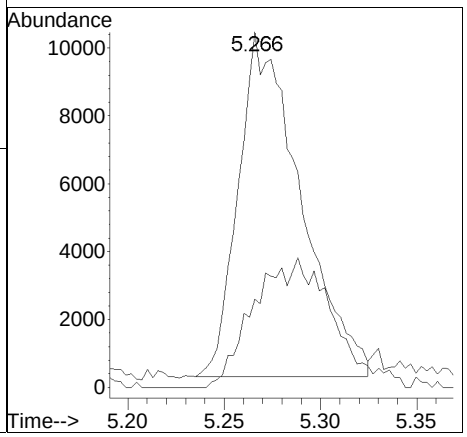


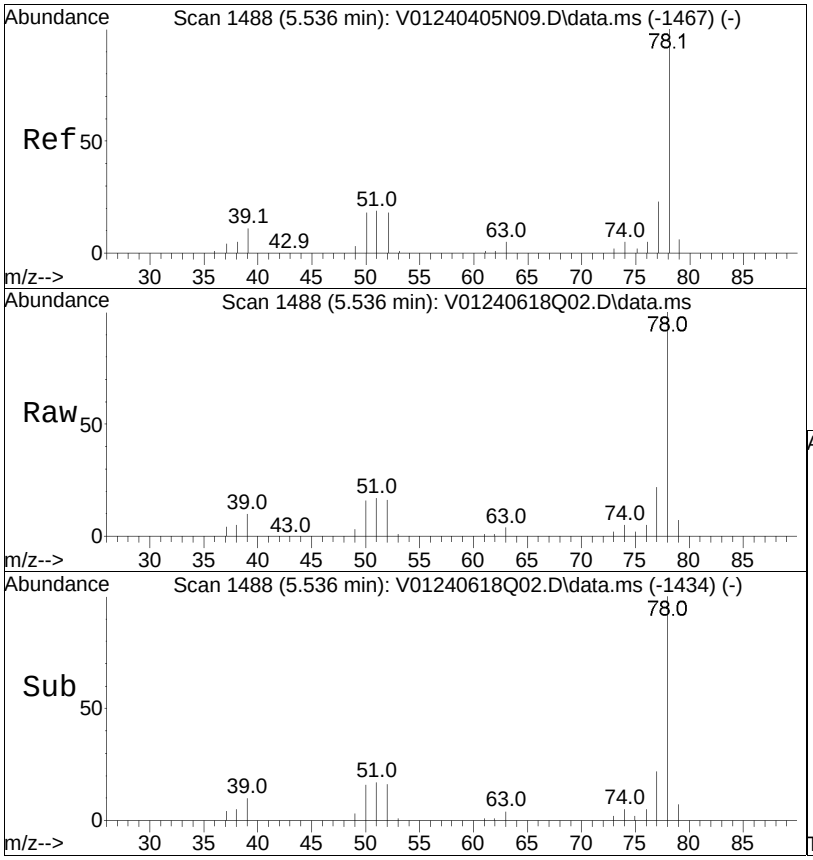


#39
2-Butanone
Concen: 11.88 ug/L
RT: 5.266 min Scan# 1391
Delta R.T. -0.005 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 43 Resp: 22674

Ion	Ratio	Lower	Upper
43	100		
72	17.1	45.8	68.6#

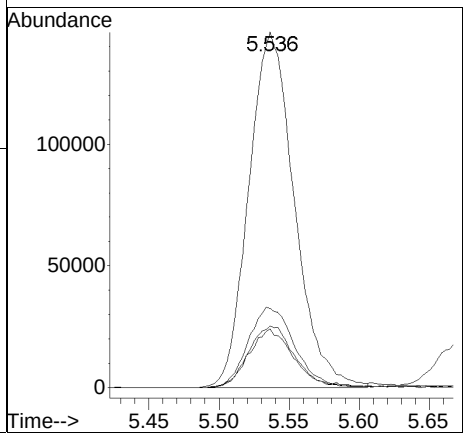


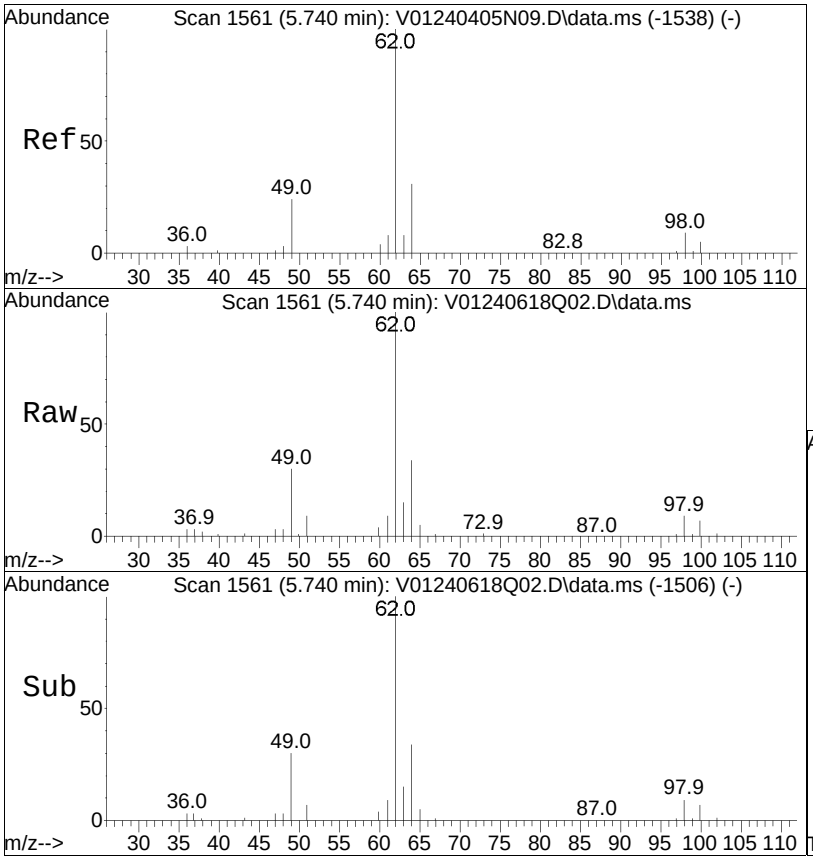


#41
Benzene
Concen: 10.90 ug/L
RT: 5.536 min Scan# 1488
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 78 Resp: 330052

Ion	Ratio	Lower	Upper
78	100		
77	23.1	15.7	32.5
51	17.6	11.6	24.2
52	16.0	10.9	22.5

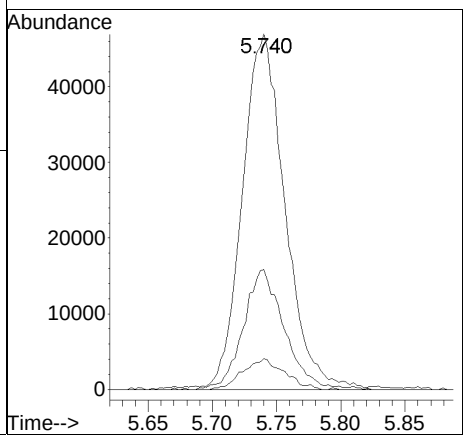


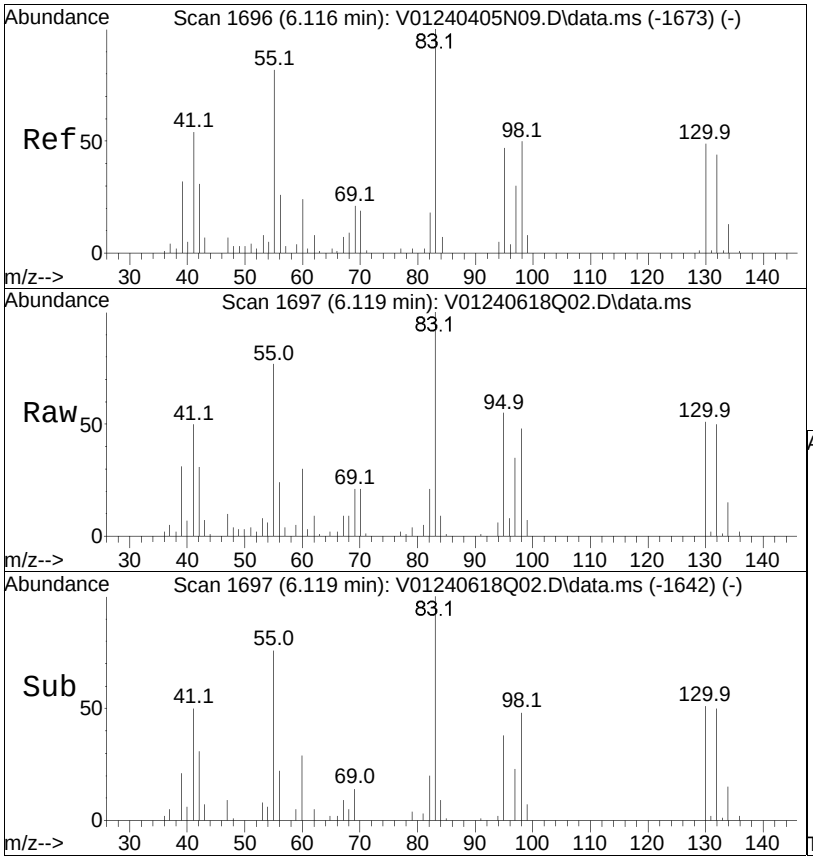


#44
1,2-Dichloroethane
Concen: 11.01 ug/L
RT: 5.740 min Scan# 1561
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 62 Resp: 108414

Ion	Ratio	Lower	Upper
62	100		
64	30.5	12.1	52.1
98	8.4	0.0	28.8

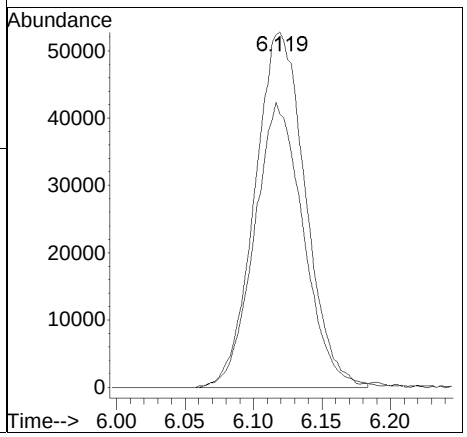


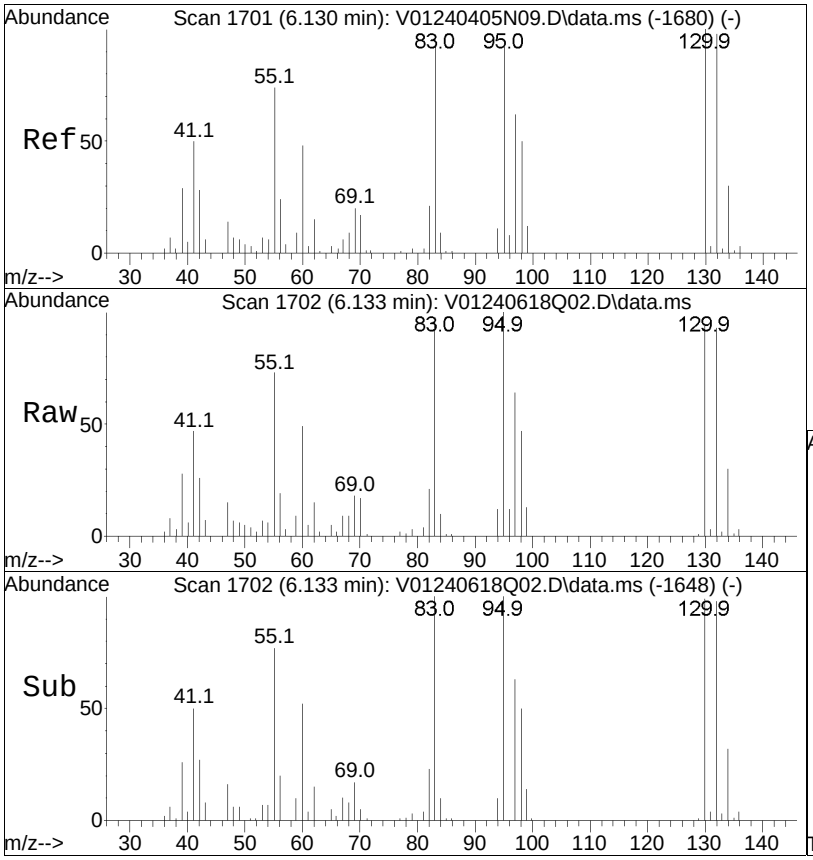


#47
Methyl cyclohexane
Concen: 10.95 ug/L
RT: 6.119 min Scan# 1697
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 83 Resp: 135701

Ion	Ratio	Lower	Upper
83	100		
55	77.4	64.6	96.8

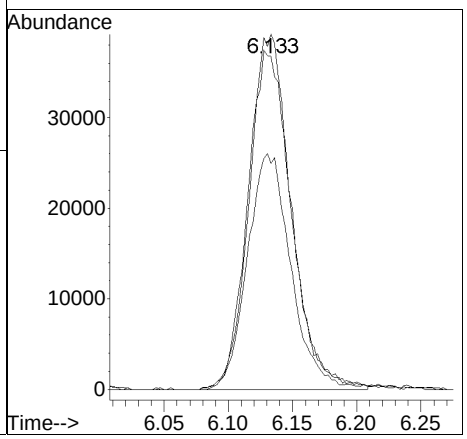


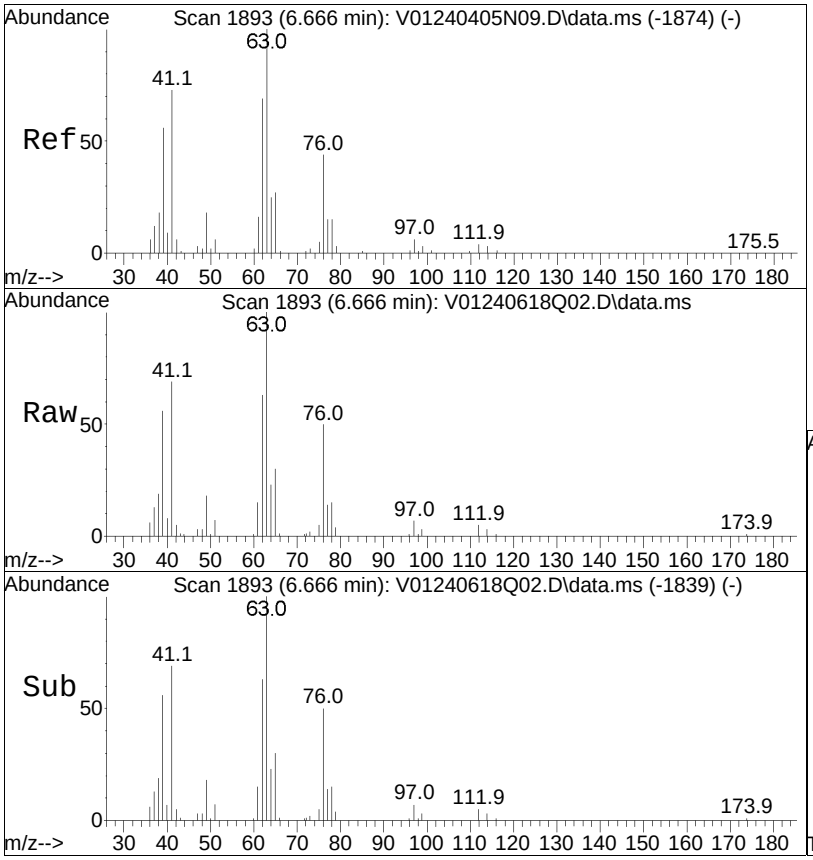


#48
Trichloroethene
Concen: 10.25 ug/L
RT: 6.133 min Scan# 1702
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 95 Resp: 91237

Ion	Ratio	Lower	Upper
95	100		
97	67.0	54.4	81.6
130	95.5	80.6	120.8

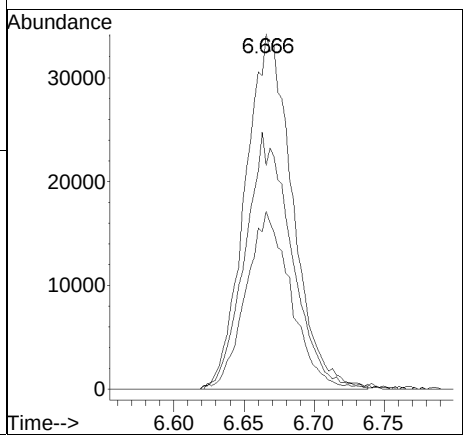


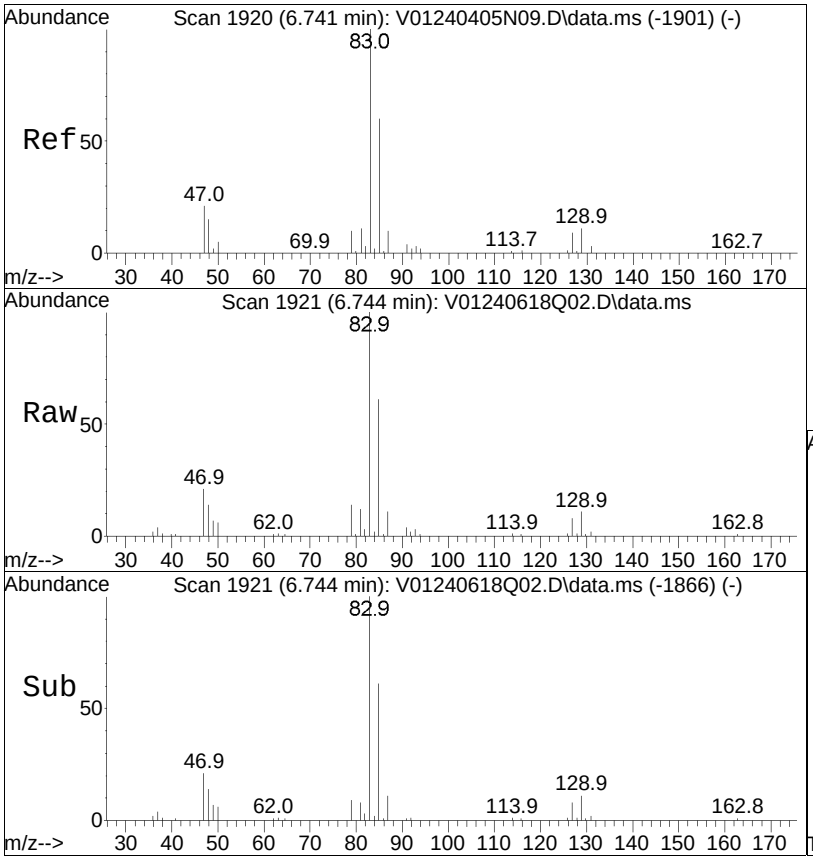


#51
1,2-Dichloropropane
Concen: 10.38 ug/L
RT: 6.666 min Scan# 1893
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 63 Resp: 80650

Ion	Ratio	Lower	Upper
63	100		
62	71.2	57.2	85.8
76	47.9	33.6	50.4

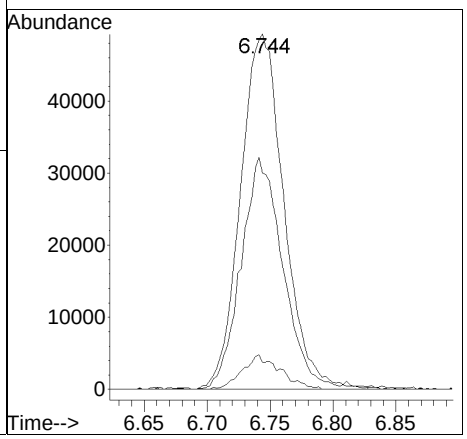


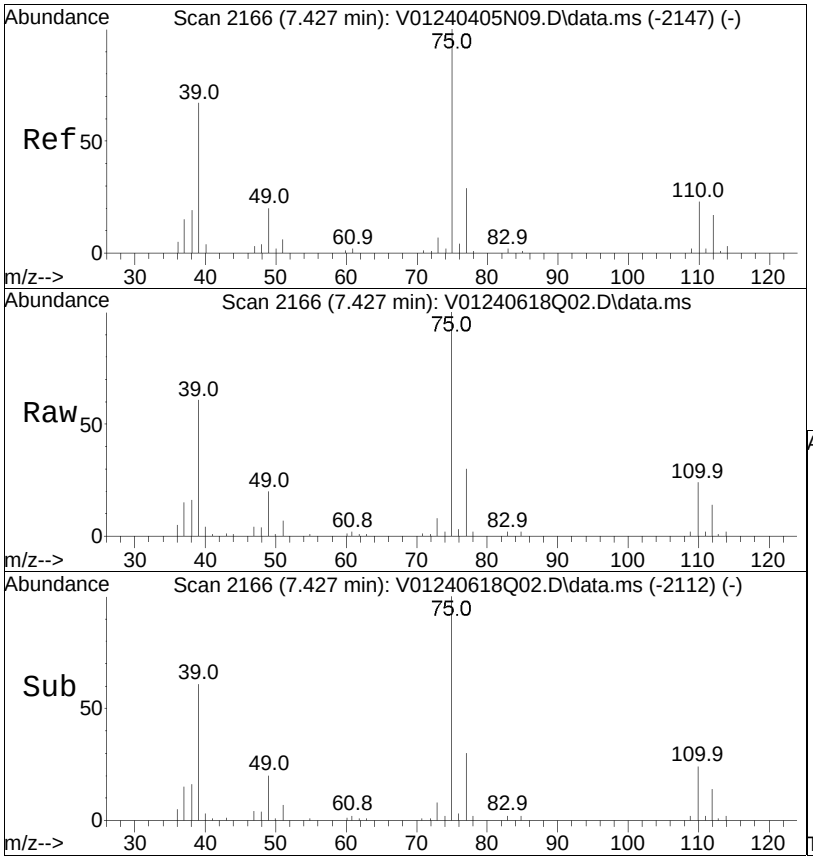


#54
Bromodichloromethane
Concen: 10.74 ug/L
RT: 6.744 min Scan# 1921
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 83 Resp: 118519

Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.2	78.4
127	8.5	6.9	10.3

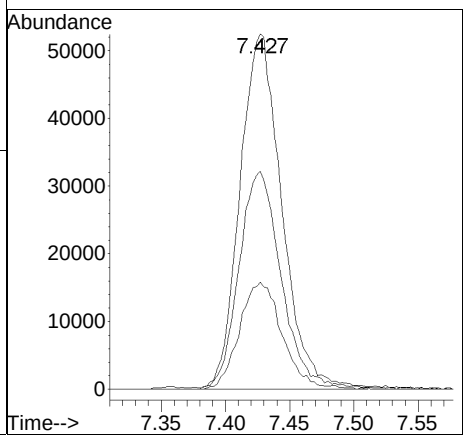


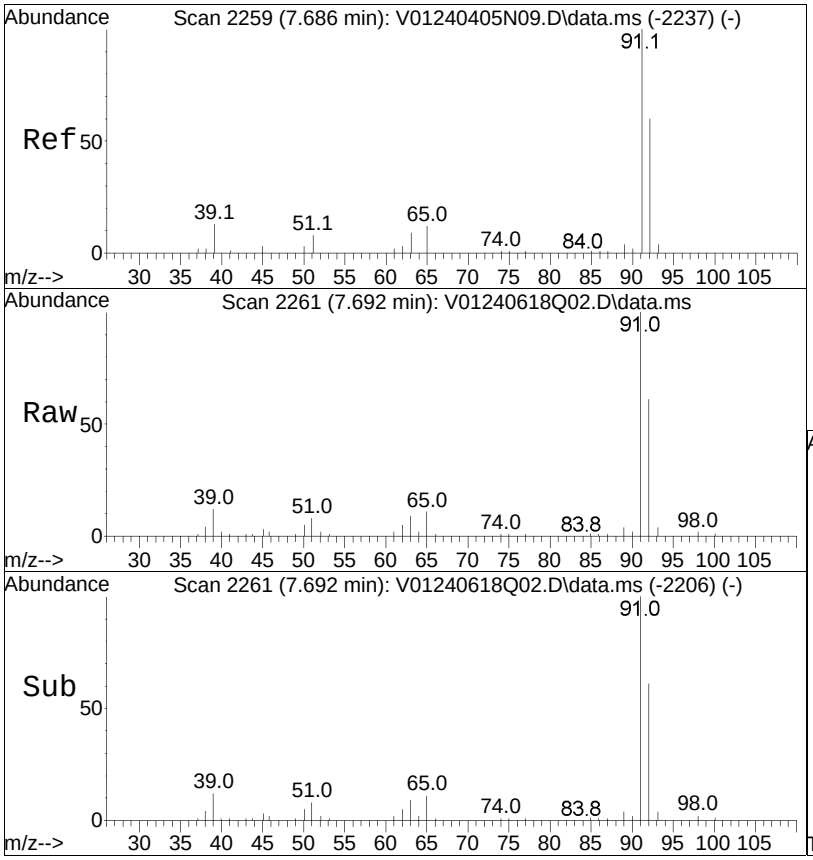


#58
cis-1,3-Dichloropropene
Concen: 9.90 ug/L
RT: 7.427 min Scan# 2166
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 75 Resp: 119320

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.1	37.7
39	60.7	42.6	63.8

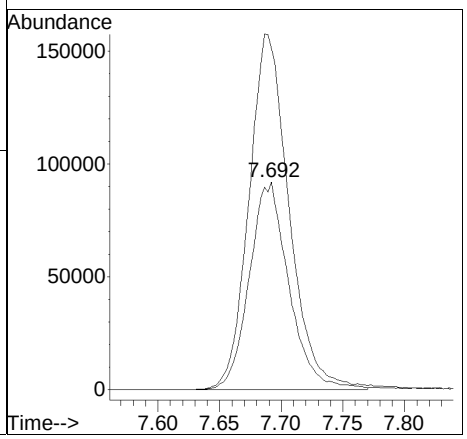


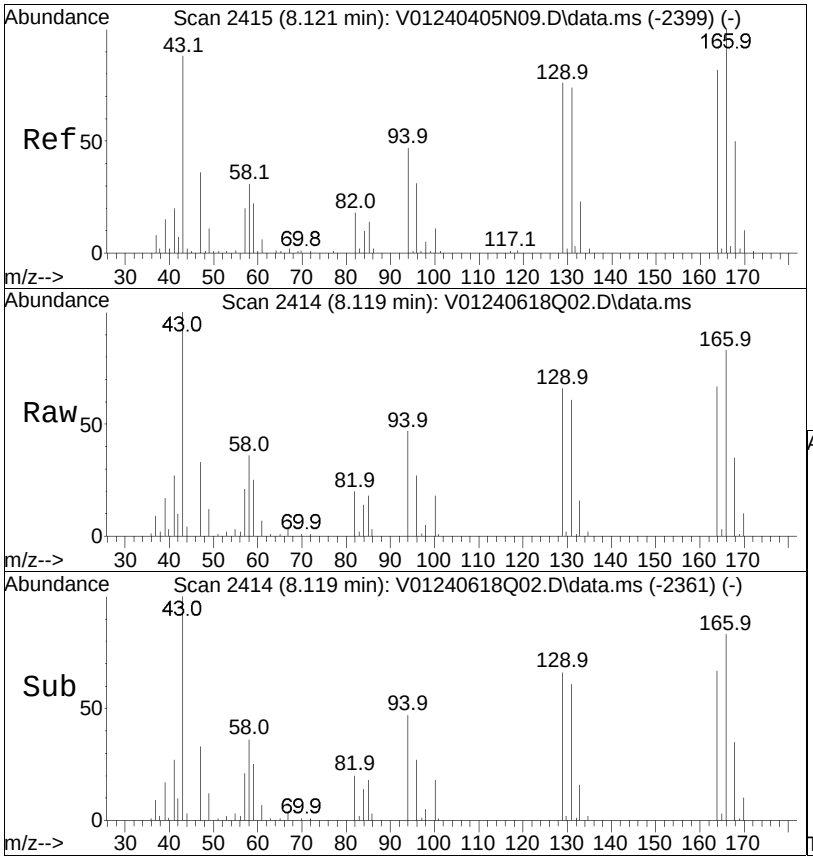


#61
Toluene
Concen: 10.89 ug/L
RT: 7.692 min Scan# 2261
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 92 Resp: 204847

Ion	Ratio	Lower	Upper
92	100		
91	175.1	137.5	206.3

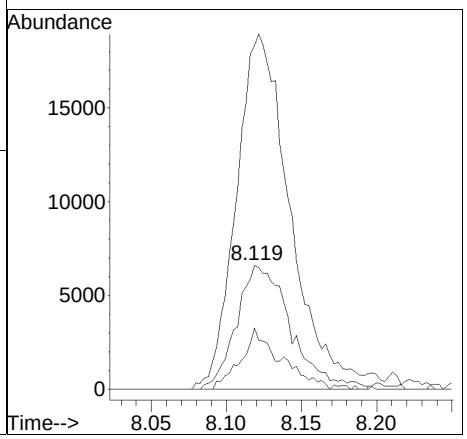


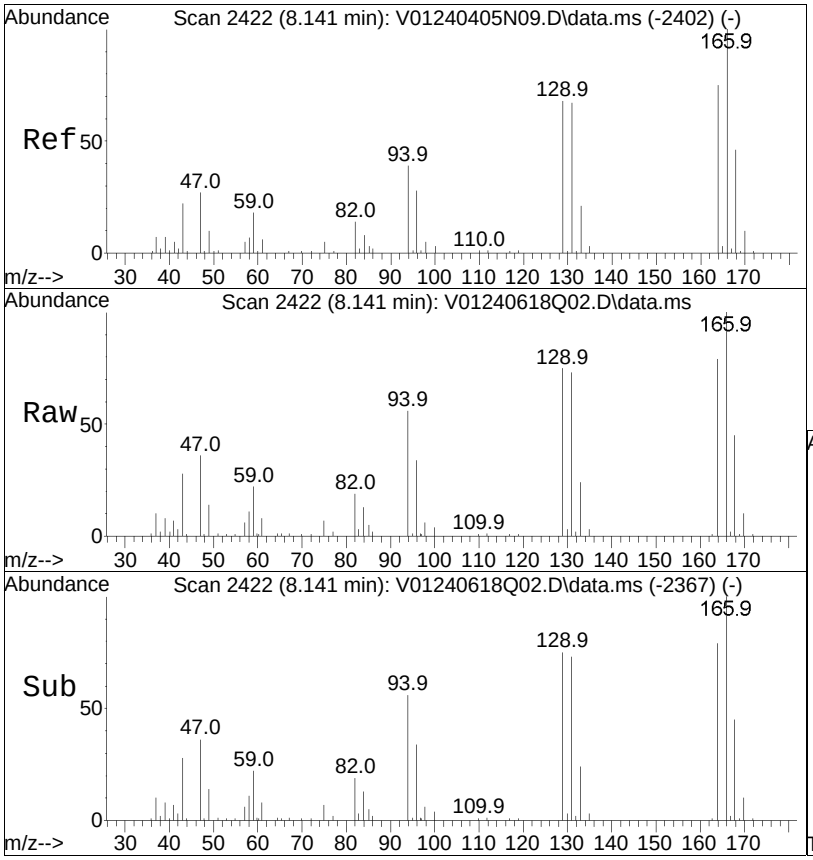


#62
4-Methyl-2-pentanone
Concen: 9.69 ug/L
RT: 8.119 min Scan# 2414
Delta R.T. -0.002 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 58 Resp: 16610

Ion	Ratio	Lower	Upper
58	100		
100	27.1	31.8	47.6#
43	282.8	212.5	318.7

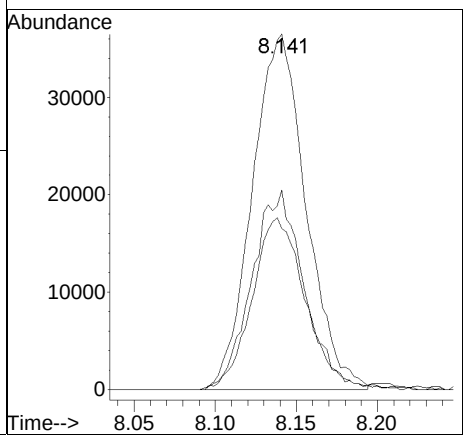


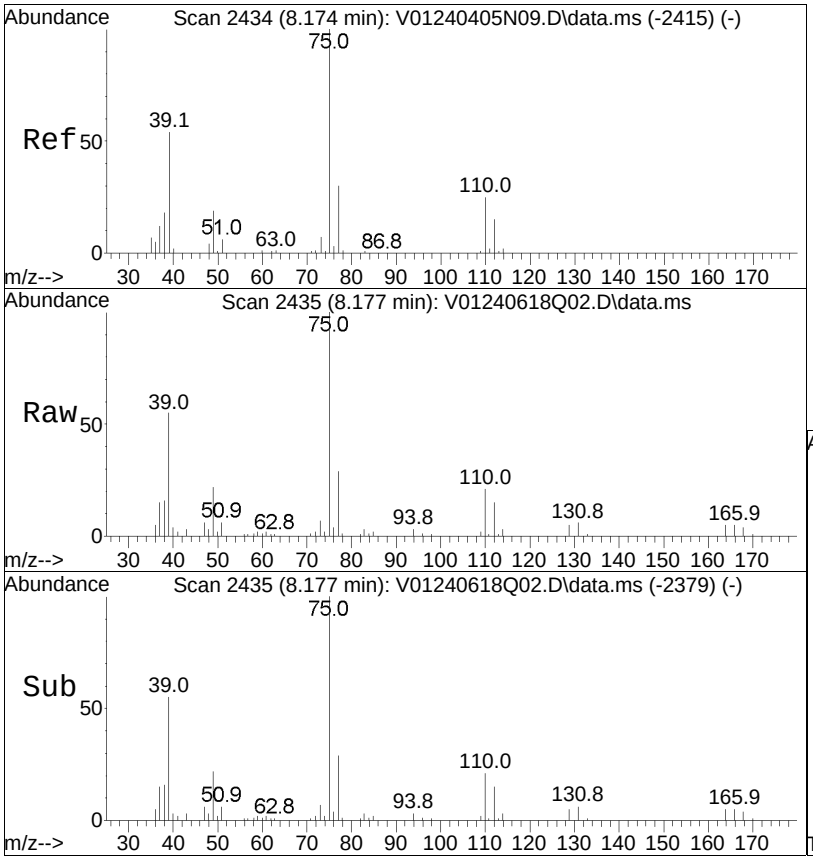


#63
Tetrachloroethene
Concen: 9.71 ug/L
RT: 8.141 min Scan# 2422
Delta R.T. 0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:166 Resp: 84175

Ion	Ratio	Lower	Upper
166	100		
168	47.7	27.4	67.4
94	53.9	24.8	64.8

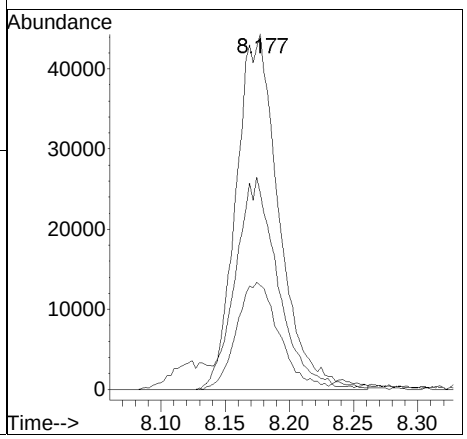


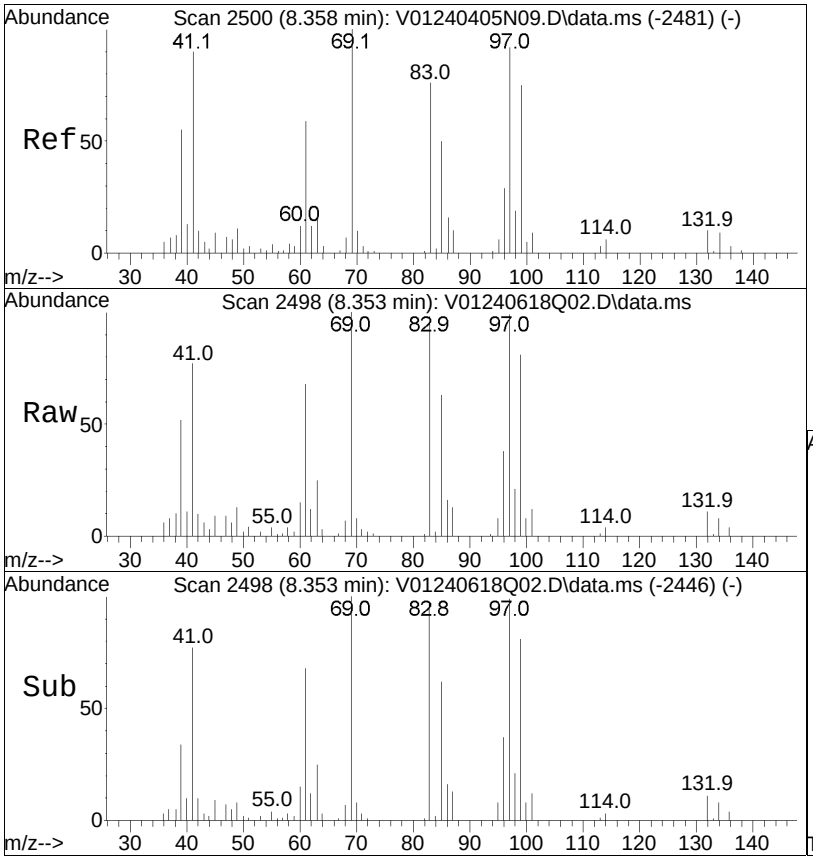


#65
trans-1,3-Dichloropropene
Concen: 10.01 ug/L
RT: 8.177 min Scan# 2435
Delta R.T. 0.005 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 75 Resp: 103099

Ion	Ratio	Lower	Upper
75	100		
77	30.3	11.8	51.8
39	57.0	30.2	70.2

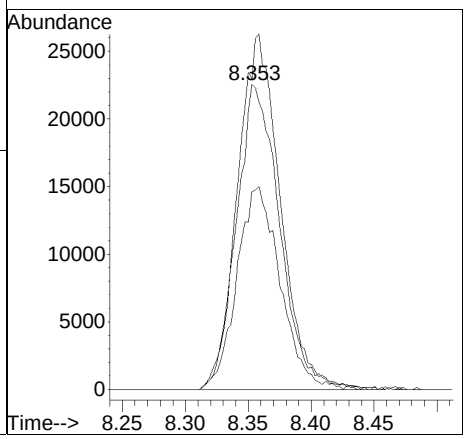


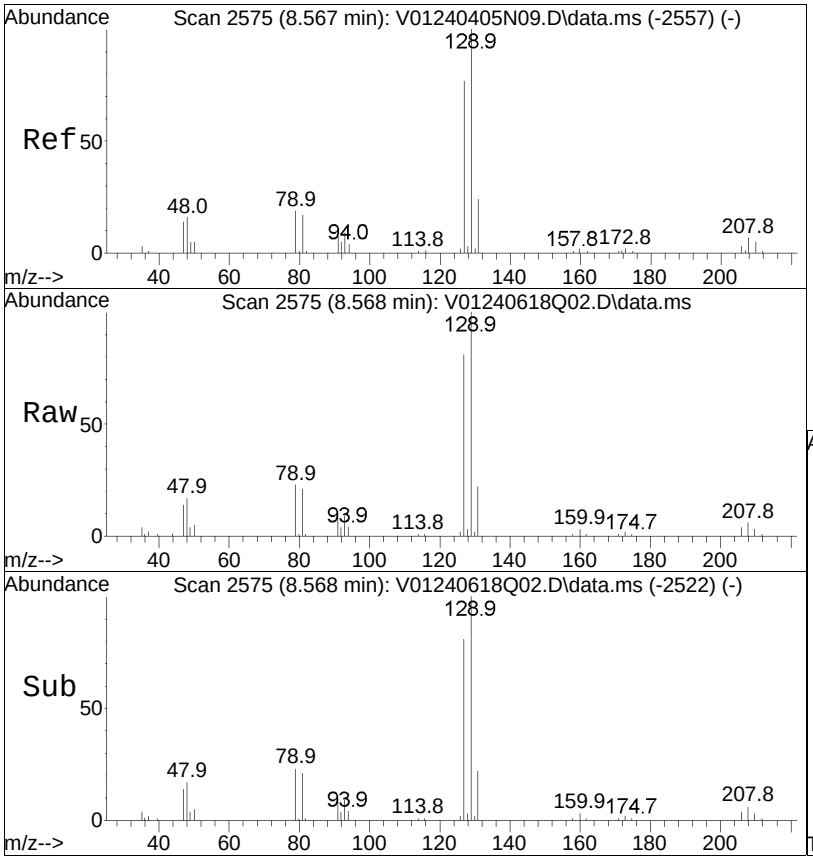


#68
1,1,2-Trichloroethane
Concen: 11.31 ug/L
RT: 8.353 min Scan# 2498
Delta R.T. -0.005 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 83 Resp: 54040

Ion	Ratio	Lower	Upper
83	100		
97	115.1	96.7	136.7
85	65.9	45.3	85.3

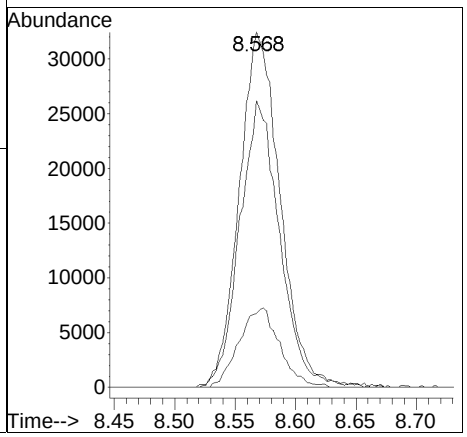


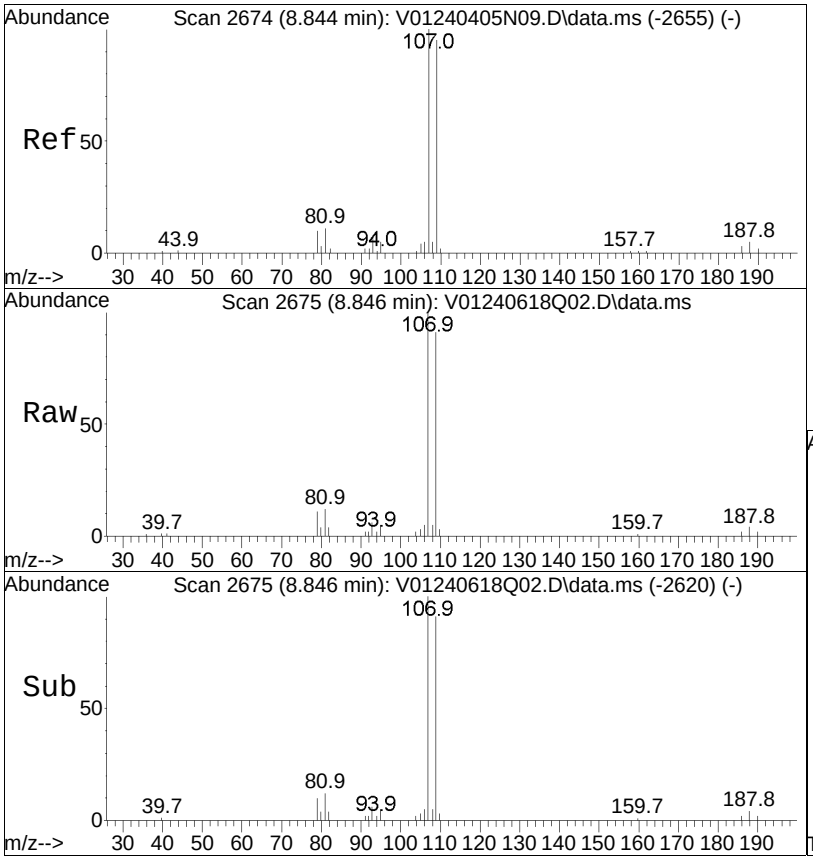


#69
Chlorodibromomethane
Concen: 10.29 ug/L
RT: 8.568 min Scan# 2575
Delta R.T. -0.002 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:129 Resp: 76593

Ion	Ratio	Lower	Upper
129	100		
81	22.3	0.0	37.9
127	78.5	56.6	96.6

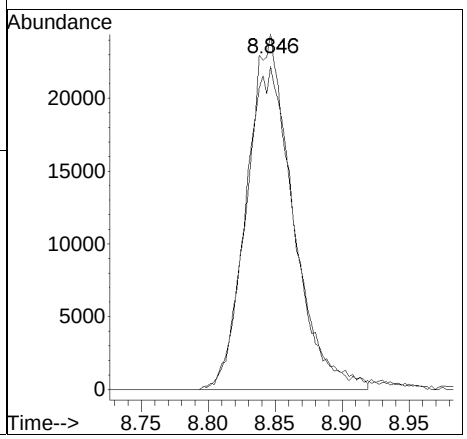


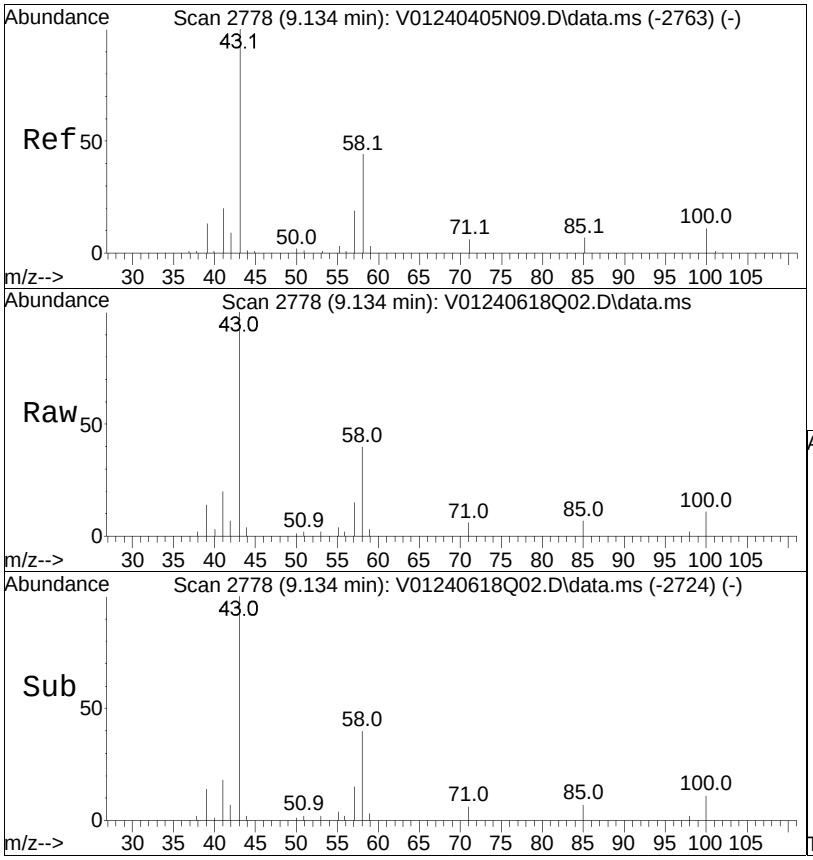


#71
1,2-Dibromoethane
Concen: 10.71 ug/L
RT: 8.846 min Scan# 2675
Delta R.T. 0.002 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:107 Resp: 58148

Ion	Ratio	Lower	Upper
107	100		
109	44.1	75.6	113.4#

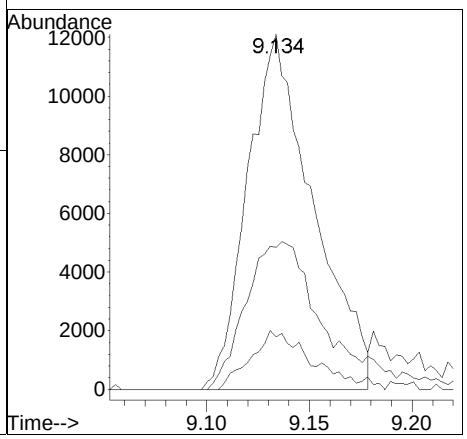


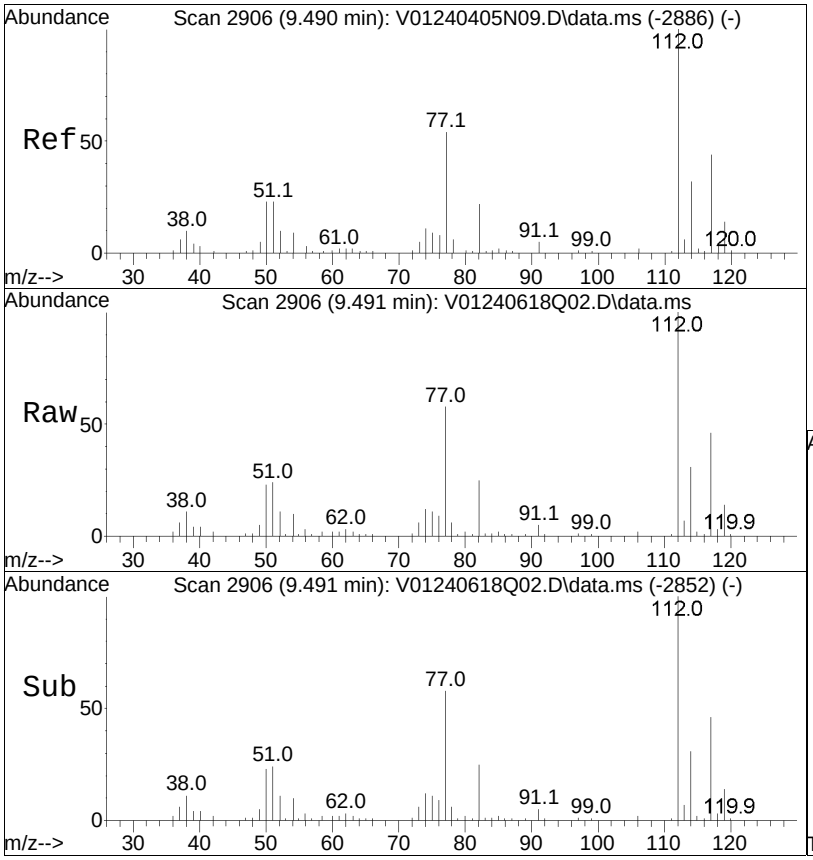


#72
2-Hexanone
Concen: 8.35 ug/L
RT: 9.134 min Scan# 2778
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 43 Resp: 26952

Ion	Ratio	Lower	Upper
43	100		
58	45.4	40.8	61.2
57	15.1	14.2	21.4

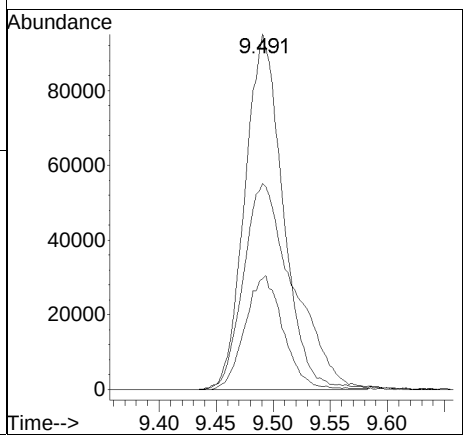


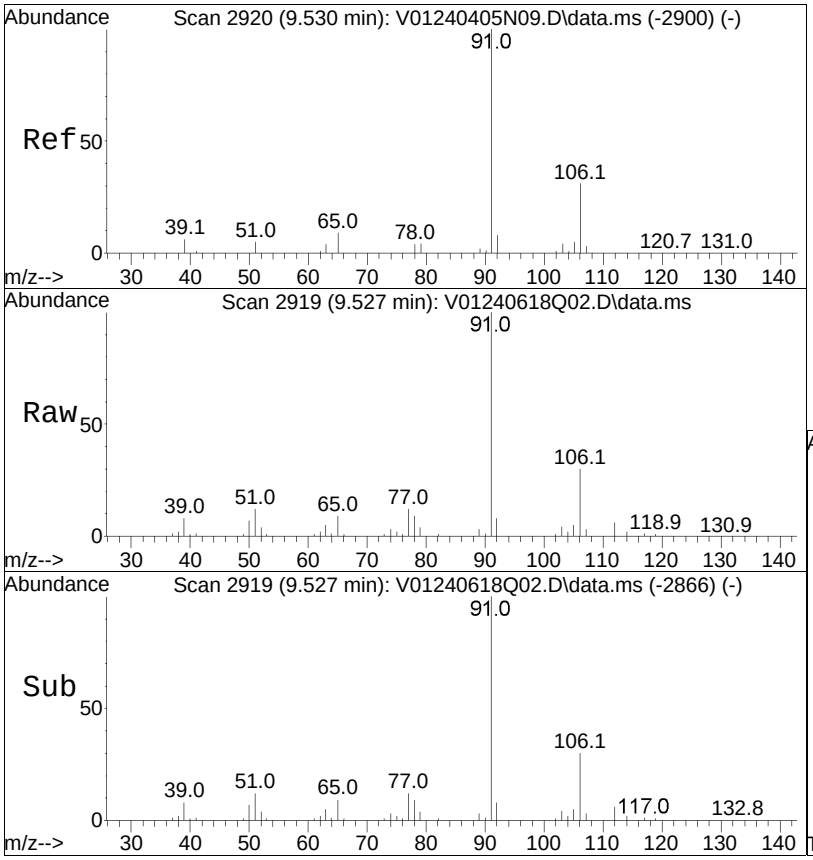


#73
Chlorobenzene
Concen: 10.65 ug/L
RT: 9.491 min Scan# 2906
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:112 Resp: 220293

Ion	Ratio	Lower	Upper
112	100		
77	77.1	59.8	89.6
114	32.1	25.4	38.2

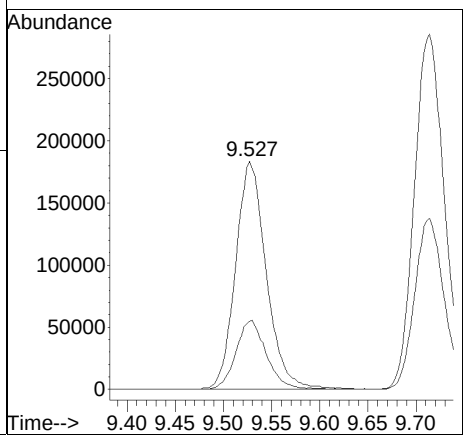


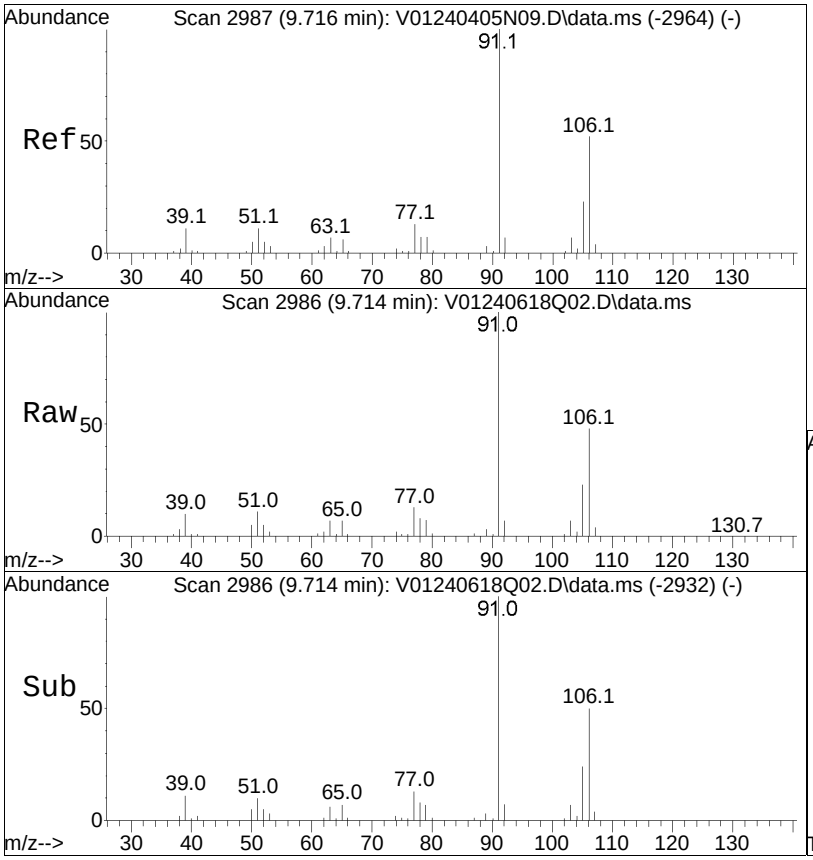


#74
Ethylbenzene
Concen: 11.07 ug/L
RT: 9.527 min Scan# 2919
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 91 Resp: 405917

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.7	37.1

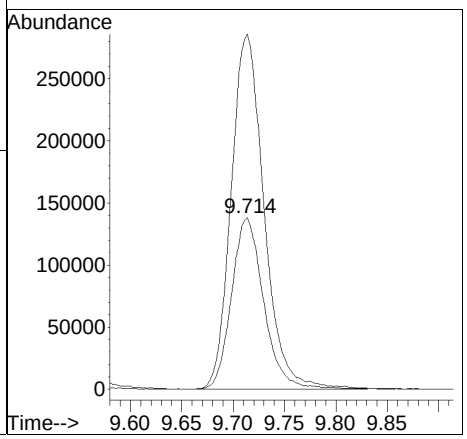


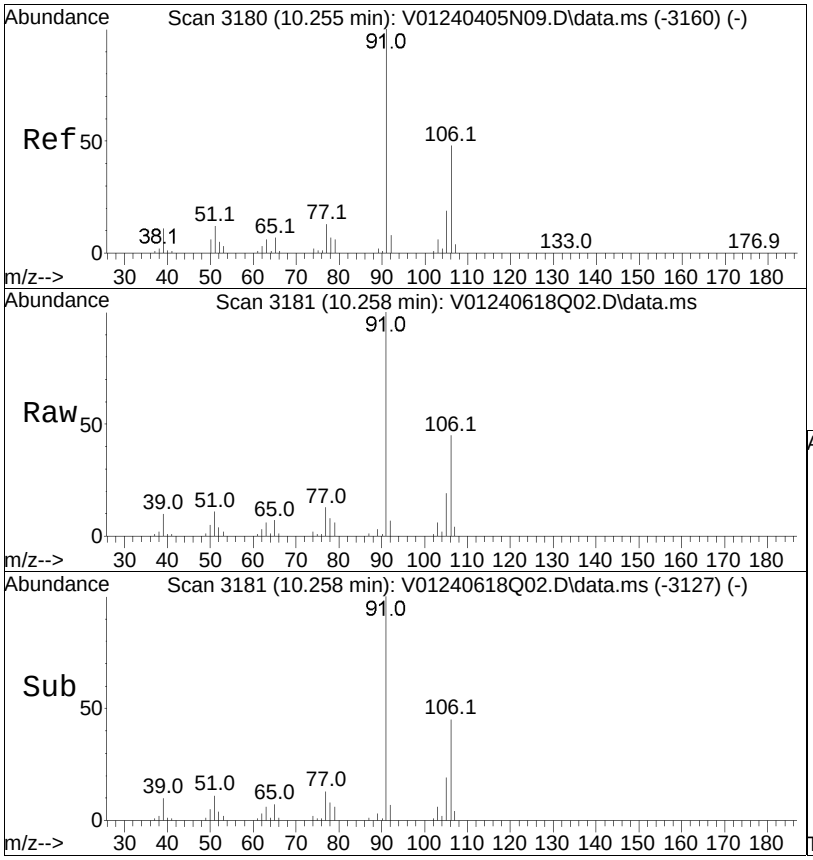


#76
p/m Xylene
Concen: 21.45 ug/L
RT: 9.714 min Scan# 2986
Delta R.T. -0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:106 Resp: 302954

Ion	Ratio	Lower	Upper
106	100		
91	209.9	162.9	244.3

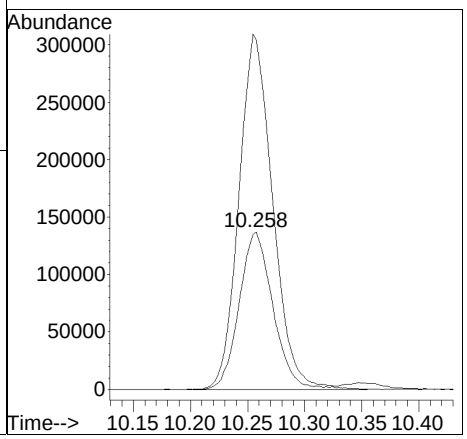


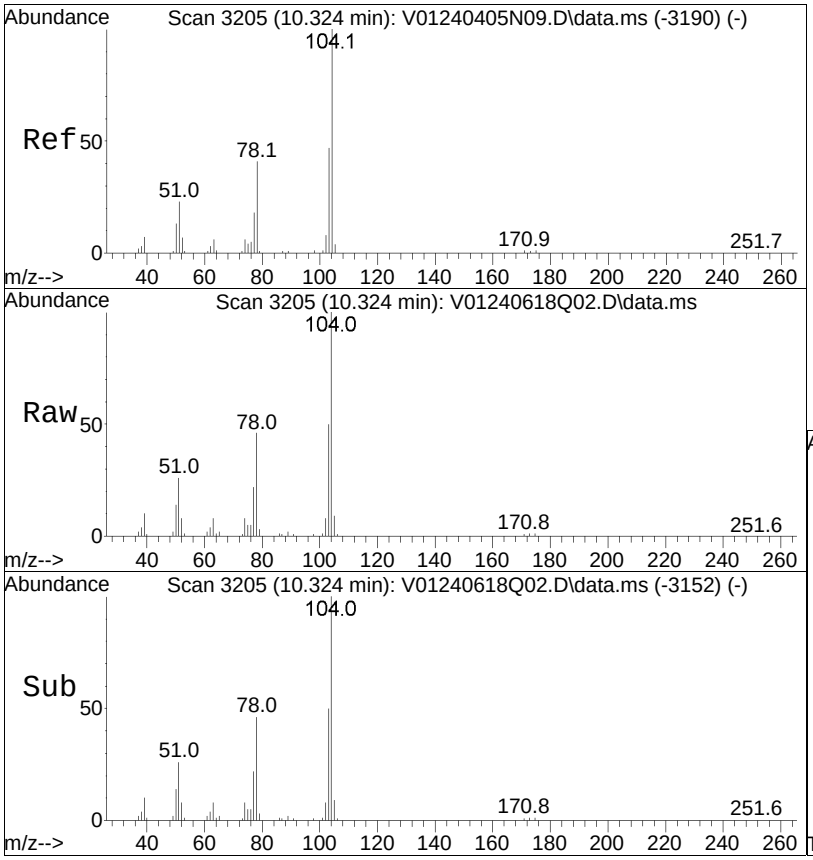


#77
o Xylene
Concen: 20.97 ug/L
RT: 10.258 min Scan# 3181
Delta R.T. 0.001 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:106 Resp: 283228

Ion	Ratio	Lower	Upper
106	100		
91	223.5	171.2	256.8

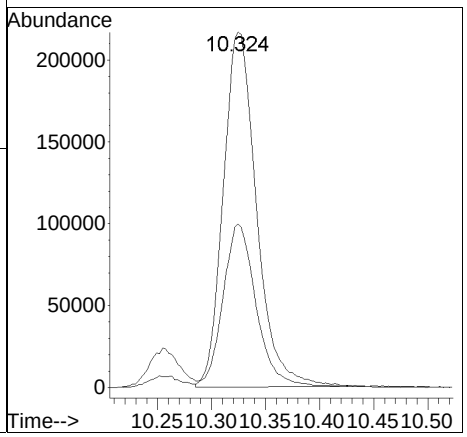


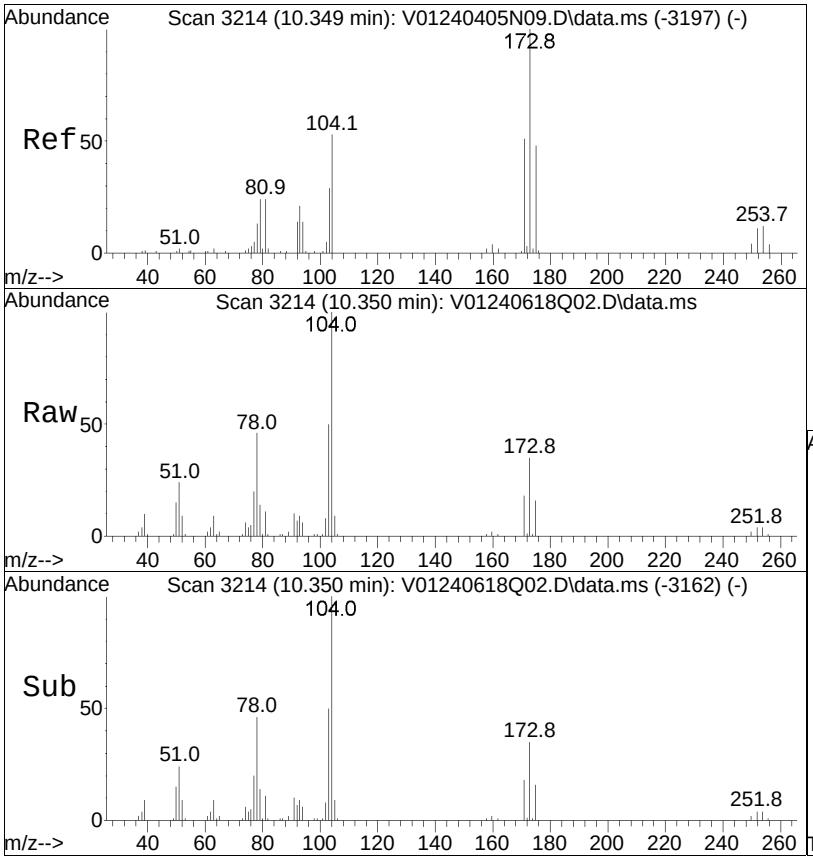


#78
Styrene
Concen: 21.11 ug/L
RT: 10.324 min Scan# 3205
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:104 Resp: 464888

Ion	Ratio	Lower	Upper
104	100		
78	45.6	34.2	51.4

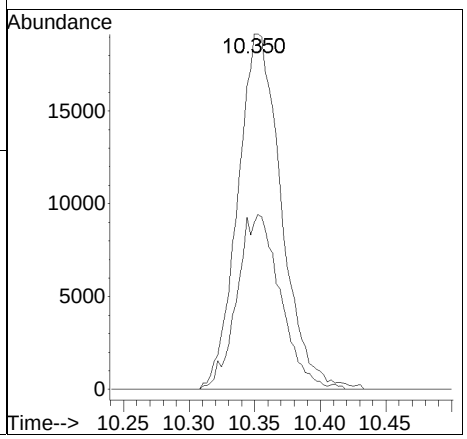


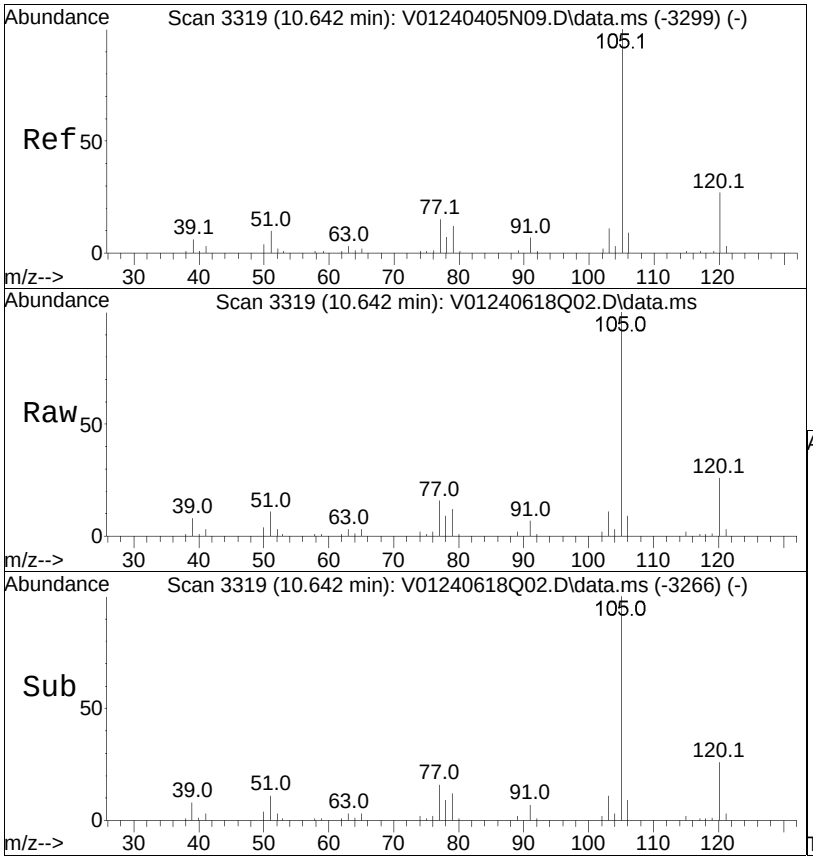


#80
Bromoform
Concen: 10.11 ug/L
RT: 10.350 min Scan# 3214
Delta R.T. -0.005 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:173 Resp: 44541

Ion	Ratio	Lower	Upper
173	100		
175	48.6	28.6	68.6

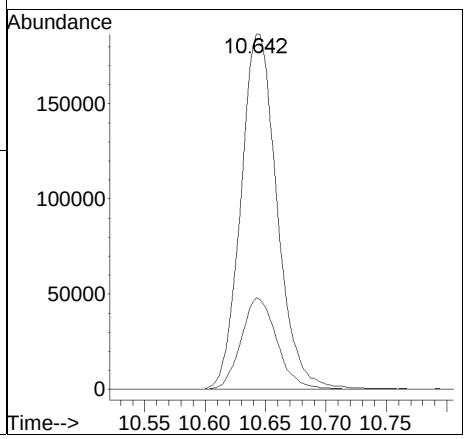


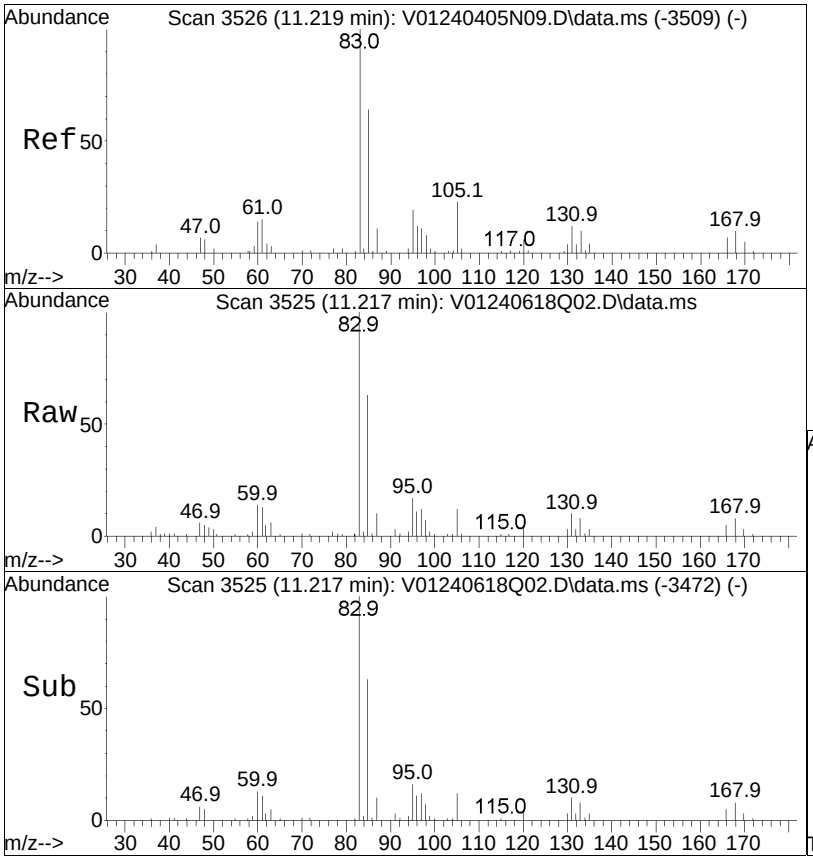


#82
Isopropylbenzene
Concen: 11.14 ug/L
RT: 10.642 min Scan# 3319
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:105 Resp: 390097

Ion	Ratio	Lower	Upper
105	100		
120	25.5	7.3	47.3

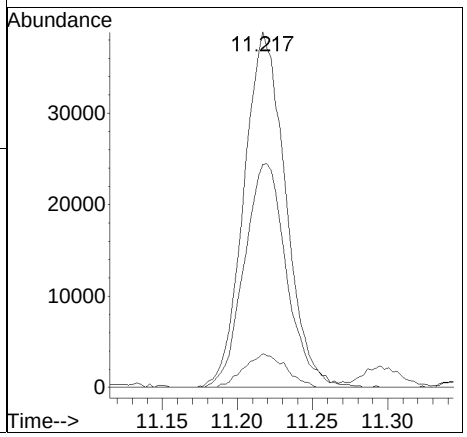


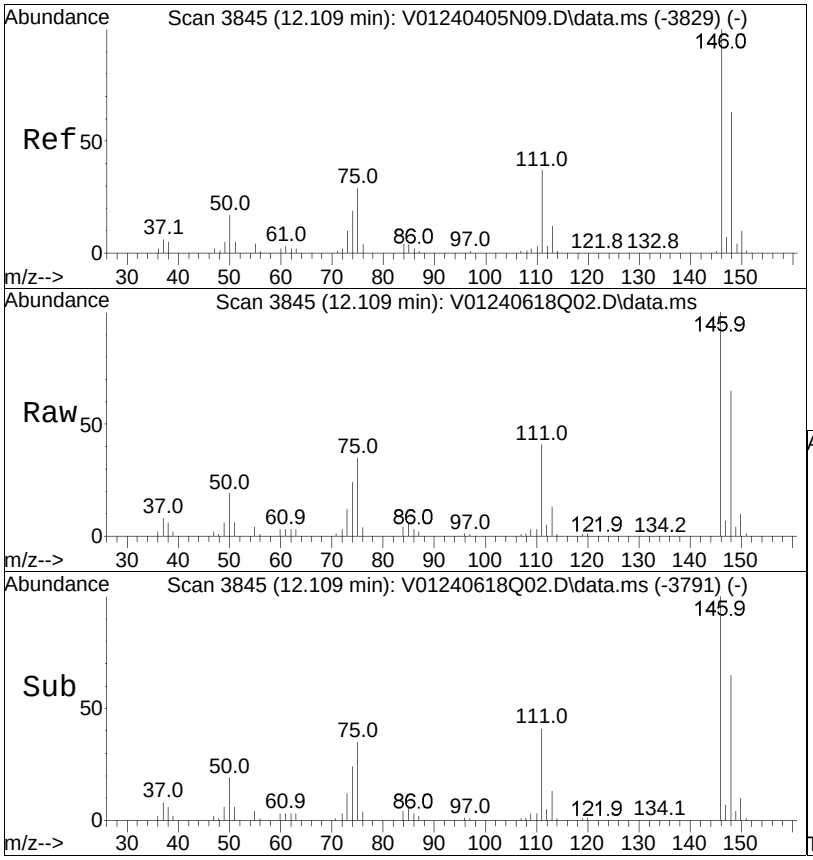


#87
1,1,2,2-Tetrachloroethane
Concen: 13.41 ug/L
RT: 11.217 min Scan# 3525
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion: 83 Resp: 74922

Ion	Ratio	Lower	Upper
83	100		
131	9.5	0.0	30.1
85	64.2	45.8	85.8

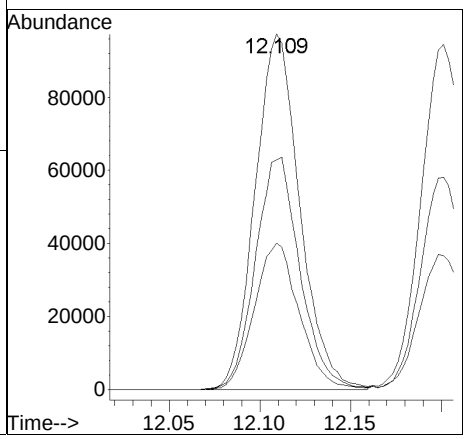


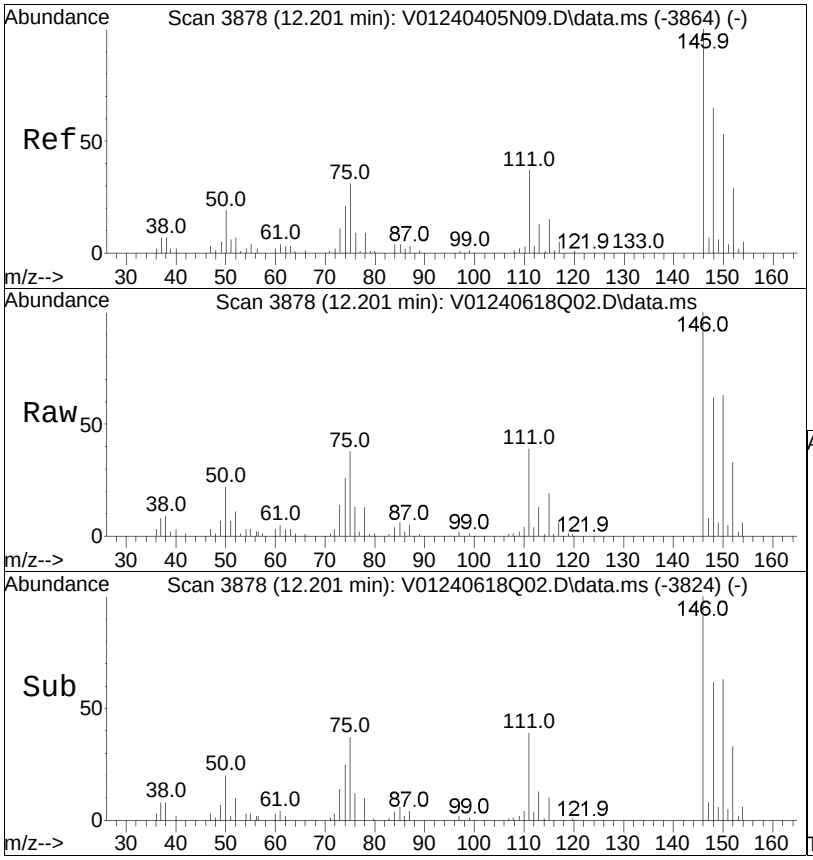


#100
1,3-Dichlorobenzene
Concen: 10.53 ug/L
RT: 12.109 min Scan# 3845
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:146 Resp: 166806

Ion	Ratio	Lower	Upper
146	100		
111	41.4	25.9	53.9
148	65.0	41.5	86.3

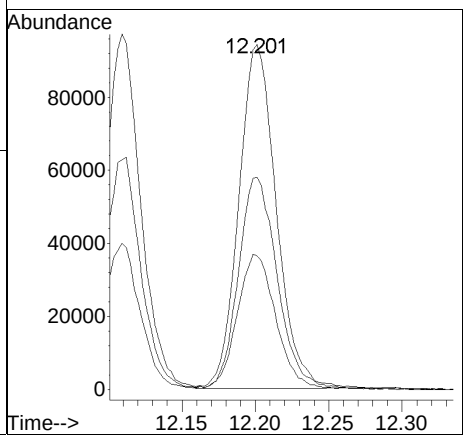


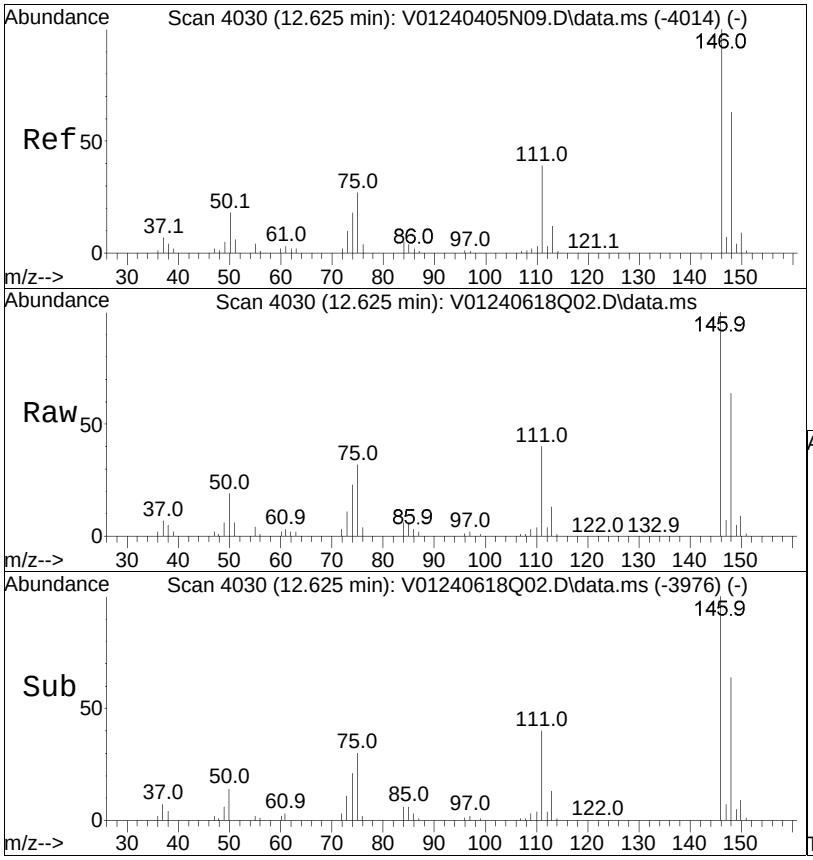


#101
1,4-Dichlorobenzene
Concen: 10.40 ug/L
RT: 12.201 min Scan# 3878
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:146 Resp: 167867

Ion	Ratio	Lower	Upper
146	100		
111	39.7	31.7	47.5
148	63.1	51.5	77.3

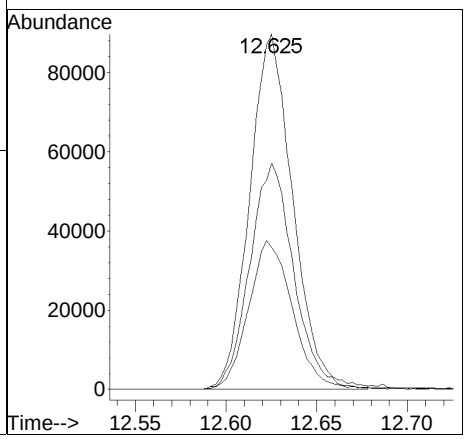


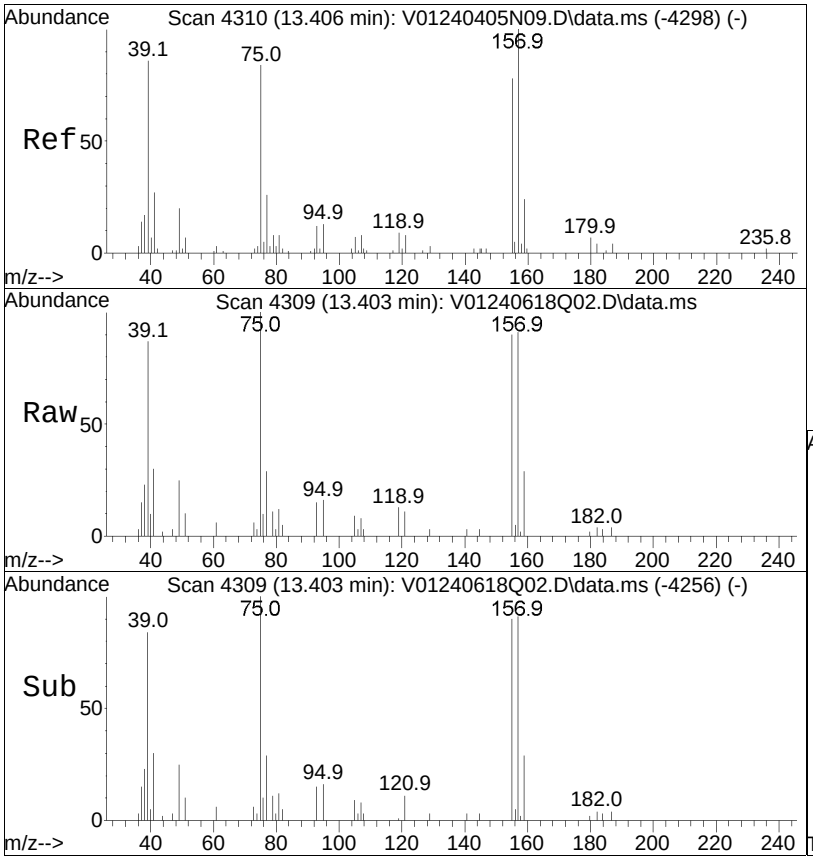


#104
1,2-Dichlorobenzene
Concen: 10.48 ug/L
RT: 12.625 min Scan# 4030
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:146 Resp: 149395

Ion	Ratio	Lower	Upper
146	100		
111	42.6	26.8	55.8
148	64.6	41.6	86.4

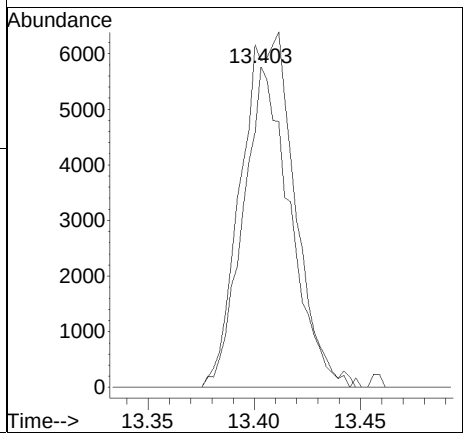


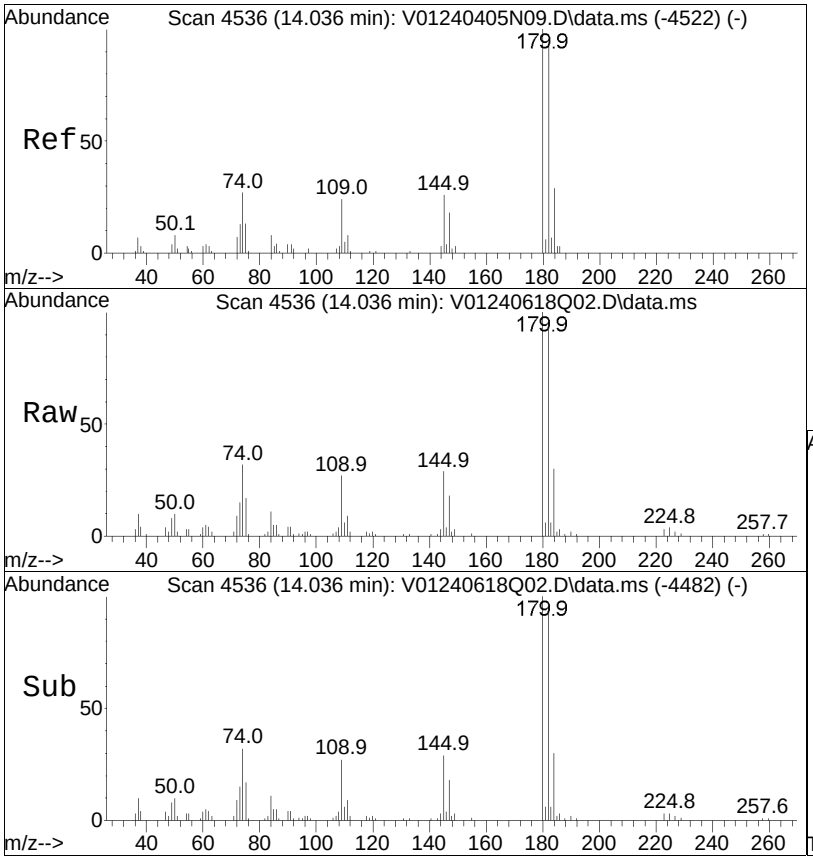


#106
1,2-Dibromo-3-chloropropane
Concen: 10.58 ug/L
RT: 13.403 min Scan# 4309
Delta R.T. -0.003 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:155 Resp: 8927

Ion	Ratio	Lower	Upper
155	100		
157	125.3	101.1	151.7

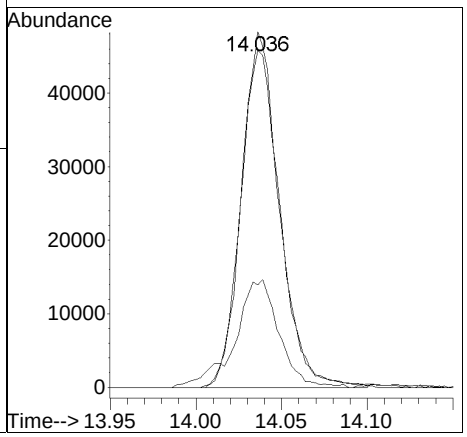


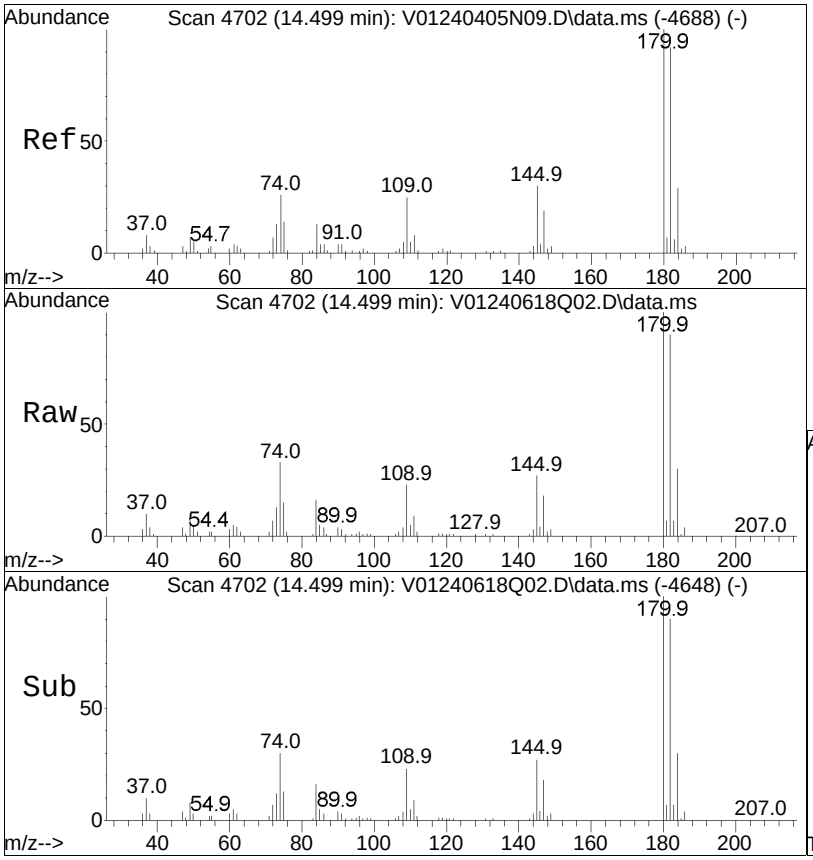


#109
1,2,4-Trichlorobenzene
Concen: 8.85 ug/L
RT: 14.036 min Scan# 4536
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:180 Resp: 74533

Ion	Ratio	Lower	Upper
180	100		
182	97.9	75.8	113.8
145	35.1	26.1	39.1

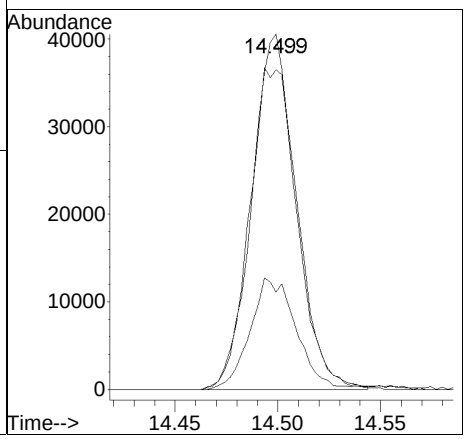




#111
1,2,3-Trichlorobenzene
Concen: 9.43 ug/L
RT: 14.499 min Scan# 4702
Delta R.T. 0.000 min
Lab File: V01240618Q02.D
Acq: 18 Jun 2024 7:30 pm

Tgt Ion:180 Resp: 61865

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.4	113.0
145	32.2	25.0	37.6



Manual Integration Report

Data Path	: K:\VOA101\2024\240618Q\	QMethod	: V101_240507N_8260.m
Data File	: V01240618Q02.D	Operator	: VOA101:LAC
Date Inj'd	: 6/18/2024 7:30 pm	Instrument	: VOA 101
Sample	: WG1936583-4,31,10,10	Quant Date	: 6/18/2024 7:55 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q25.D
Acq On : 19 Jun 2024 5:28 am
Operator : VOA101:MJV
Sample : WG1936583-6,31,10,10,,A1
Misc : WG1936583,ICAL21103
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 06:53:35 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.949	96	318114	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 99.00%			
59) Chlorobenzene-d5	9.471	117	233417	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 97.69%			
79) 1,4-Dichlorobenzene-d4	12.182	152	131384	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 96.24%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.152	113	86857	10.141	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.41%			
43) 1,2-Dichloroethane-d4	5.670	65	101378	10.326	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.26%			
60) Toluene-d8	7.633	98	306426	10.066	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.66%			
83) 4-Bromofluorobenzene	10.971	95	115038	10.107	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.07%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.643	85	92391	9.679	ug/L	98
3) Chloromethane	1.833	50	79273	8.477	ug/L	99
4) Vinyl chloride	1.903	62	83055	11.234	ug/L	98
5) Bromomethane	2.207	94	16326	3.355	ug/L	100
6) Chloroethane	2.318	64	48142	10.708	ug/L	97
7) Trichlorofluoromethane	2.452	101	125583	10.670	ug/L	97
10) 1,1-Dichloroethene	2.932	96	62731	10.487	ug/L	95
11) Carbon disulfide	2.960	76	184932	10.265	ug/L	99
12) Freon-113	2.971	101	68734	10.846	ug/L	85
15) Methylene chloride	3.478	84	76198	9.695	ug/L	96
17) Acetone	3.526	43	13498	7.251	ug/L #	85
18) trans-1,2-Dichloroethene	3.629	96	74359	10.323	ug/L	96
19) Methyl acetate	3.640	43	27098	8.507	ug/L	95
20) Methyl tert-butyl ether	3.729	73	135275	7.928	ug/L #	93
23) 1,1-Dichloroethane	4.198	63	153630	11.176	ug/L	99
28) cis-1,2-Dichloroethene	4.716	96	80309	10.070	ug/L	96
30) Bromochloromethane	4.906	128	34178	9.676	ug/L #	72
31) Cyclohexane	4.912	56	131487	11.028	ug/L	94
32) Chloroform	4.976	83	149455	11.055	ug/L	99
34) Carbon tetrachloride	5.110	117	125223	11.585	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q25.D
Acq On : 19 Jun 2024 5:28 am
Operator : VOA101:MJV
Sample : WG1936583-6,31,10,10,,A1
Misc : WG1936583,ICAL21103
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 06:53:35 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.171	97	144827	11.964	ug/L		99
39) 2-Butanone	5.269	43	15008	8.190	ug/L	#	62
41) Benzene	5.536	78	315613	10.858	ug/L		98
44) 1,2-Dichloroethane	5.737	62	95440	10.096	ug/L		97
47) Methyl cyclohexane	6.119	83	133355	11.209	ug/L		96
48) Trichloroethene	6.130	95	84666	9.905	ug/L		96
51) 1,2-Dichloropropane	6.666	63	79552	10.664	ug/L		96
54) Bromodichloromethane	6.741	83	107222	10.117	ug/L		96
58) cis-1,3-Dichloropropene	7.427	75	96047	8.297	ug/L		93
61) Toluene	7.686	92	189142	10.615	ug/L		97
62) 4-Methyl-2-pentanone	8.124	58	11119	6.848	ug/L	#	78
63) Tetrachloroethene	8.138	166	87259	10.624	ug/L		92
65) trans-1,3-Dichloropropene	8.172	75	87355	8.955	ug/L		94
68) 1,1,2-Trichloroethane	8.358	83	46025	10.163	ug/L		97
69) Chlorodibromomethane	8.573	129	64453	9.140	ug/L		97
71) 1,2-Dibromoethane	8.849	107	48451	9.416	ug/L		100
72) 2-Hexanone	9.136	43	20140M1	6.585	ug/L		
73) Chlorobenzene	9.488	112	200431	10.222	ug/L		98
74) Ethylbenzene	9.527	91	377138	10.853	ug/L		98
76) p/m Xylene	9.714	106	280866	20.989	ug/L		96
77) o Xylene	10.258	106	255861	19.989	ug/L		93
78) Styrene	10.324	104	405836	19.452	ug/L		93
80) Bromoform	10.350	173	34932	8.338	ug/L		99
82) Isopropylbenzene	10.642	105	363135	10.905	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.217	83	60633	11.408	ug/L		97
100) 1,3-Dichlorobenzene	12.106	146	145017	9.626	ug/L		98
101) 1,4-Dichlorobenzene	12.201	146	142561	9.286	ug/L		97
104) 1,2-Dichlorobenzene	12.628	146	128633	9.489	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.406	155	6091	7.585	ug/L		95
109) 1,2,4-Trichlorobenzene	14.036	180	56827	7.093	ug/L		97
111) 1,2,3-Trichlorobenzene	14.499	180	41818	6.703	ug/L		99

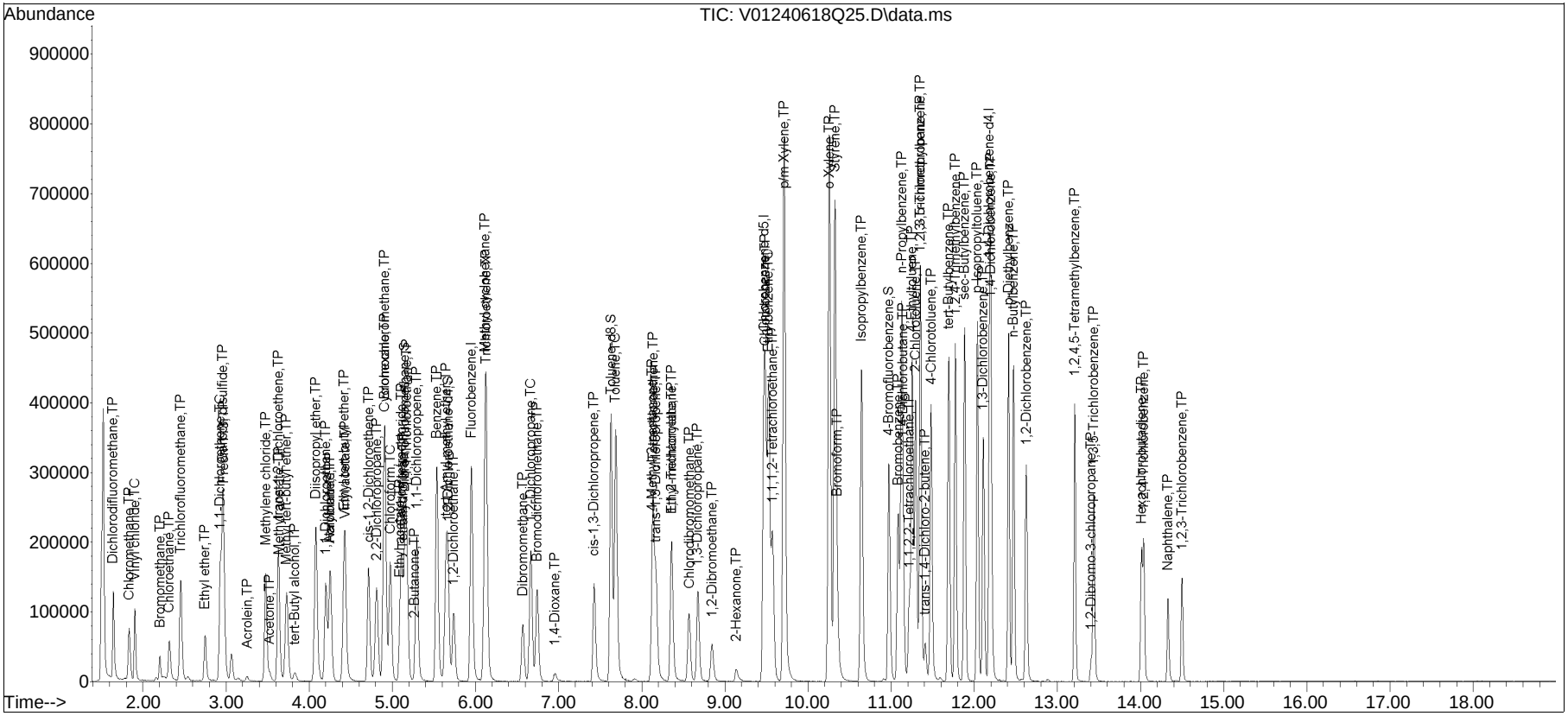
(#) = qualifier out of range (m) = manual integration (+) = signals summed

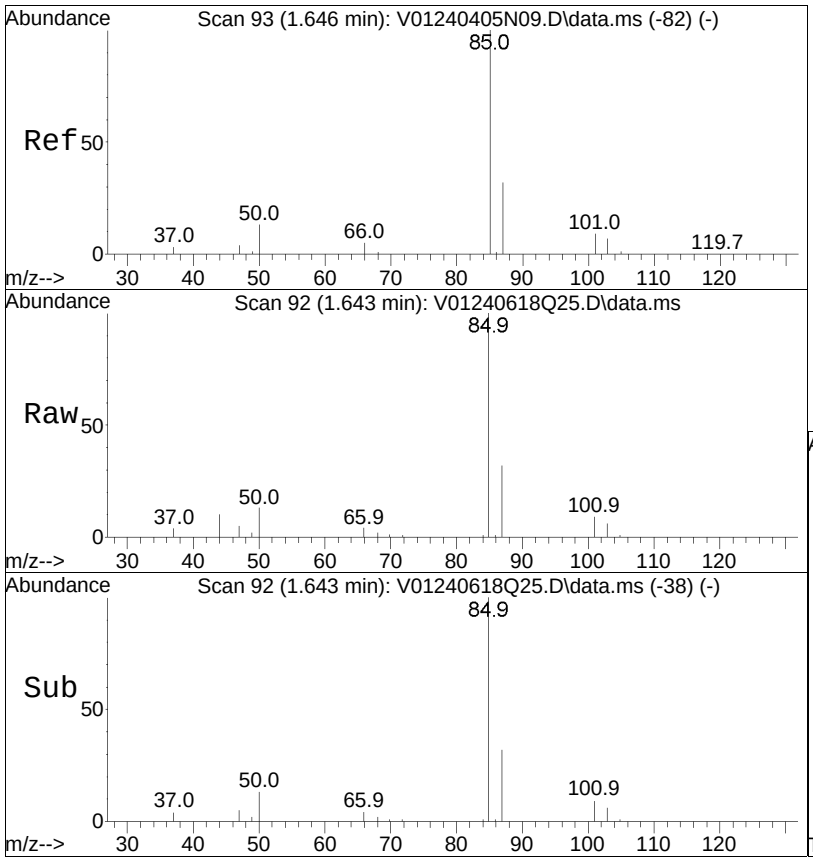
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q25.D
Acq On : 19 Jun 2024 5:28 am
Operator : VOA101:MJV
Sample : WG1936583-6,31,10,10,,A1
Misc : WG1936583,ICAL21103
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 06:53:35 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

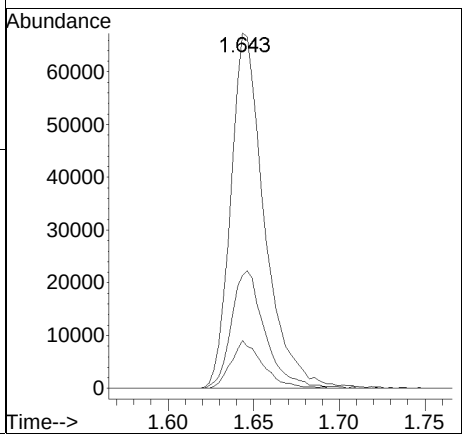


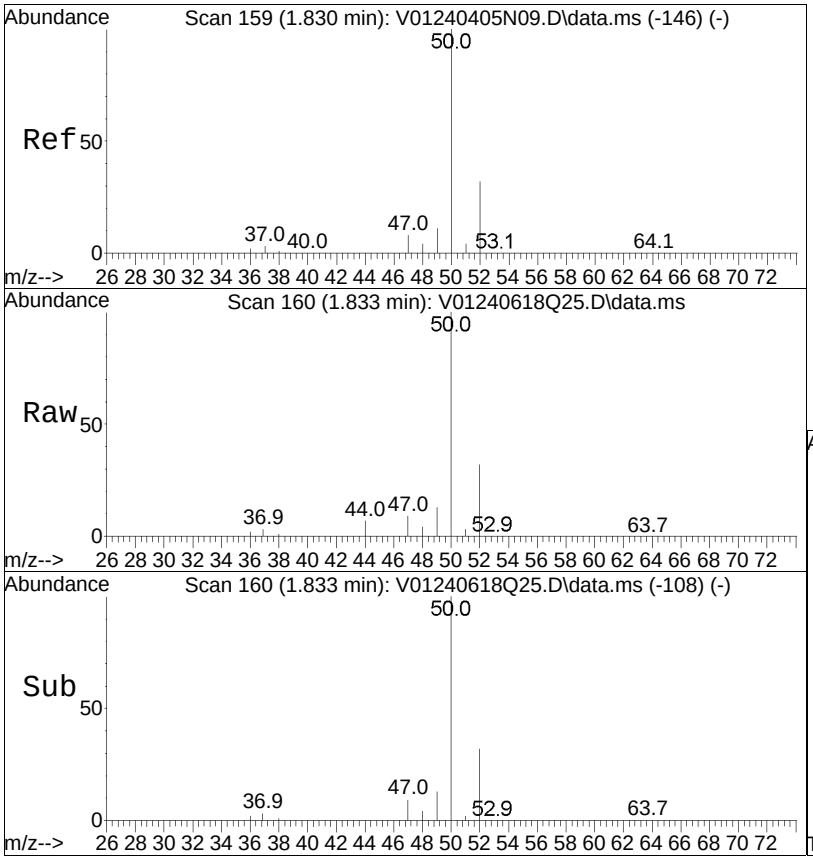


#2
Dichlorodifluoromethane
Concen: 9.68 ug/L
RT: 1.643 min Scan# 92
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 85 Resp: 92391

Ion	Ratio	Lower	Upper
85	100		
87	33.2	20.9	43.5
50	12.8	9.1	18.9

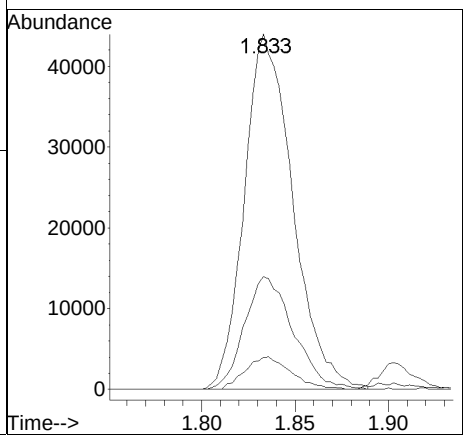


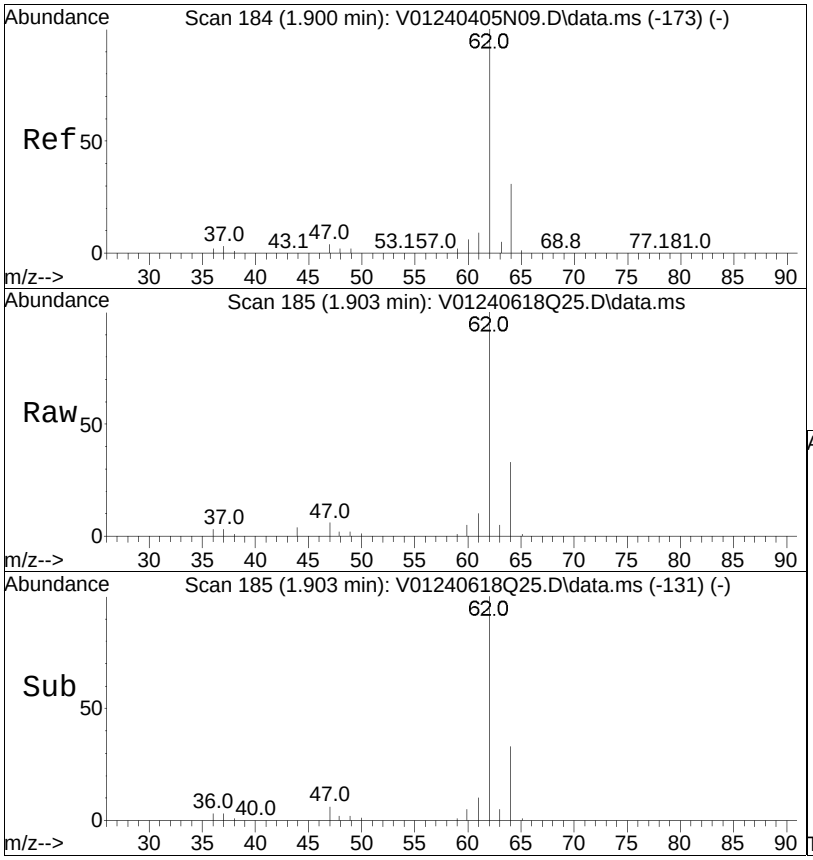


#3
Chloromethane
Concen: 8.48 ug/L
RT: 1.833 min Scan# 160
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 50 Resp: 79273

Ion	Ratio	Lower	Upper
50	100		
52	32.0	12.8	52.8
47	8.7	0.0	28.3

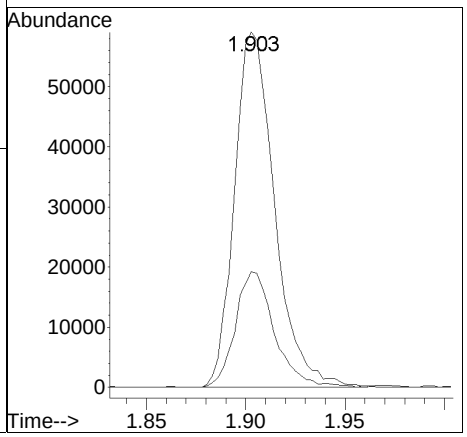


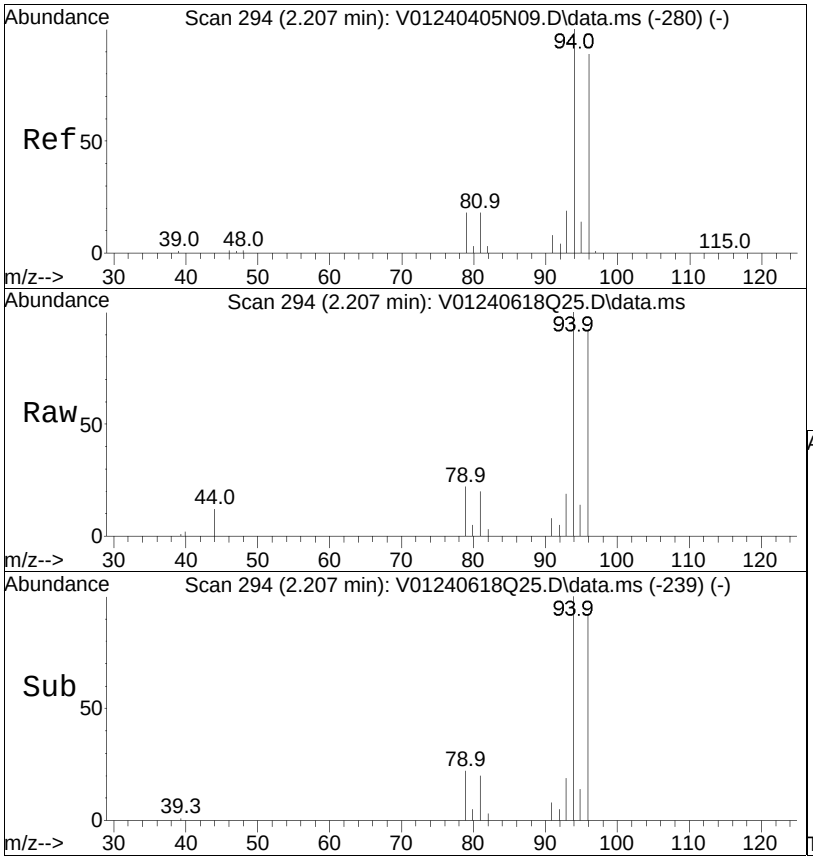


#4
Vinyl chloride
Concen: 11.23 ug/L
RT: 1.903 min Scan# 185
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 62 Resp: 83055

Ion	Ratio	Lower	Upper
62	100		
64	31.8	10.8	50.8

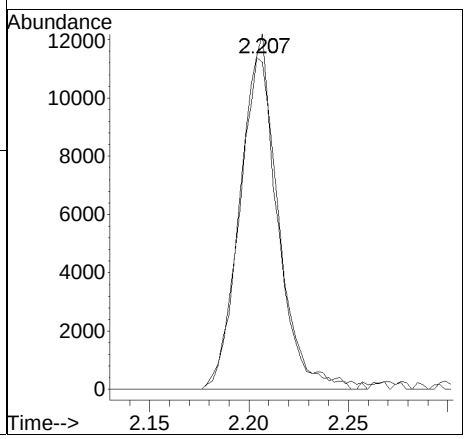


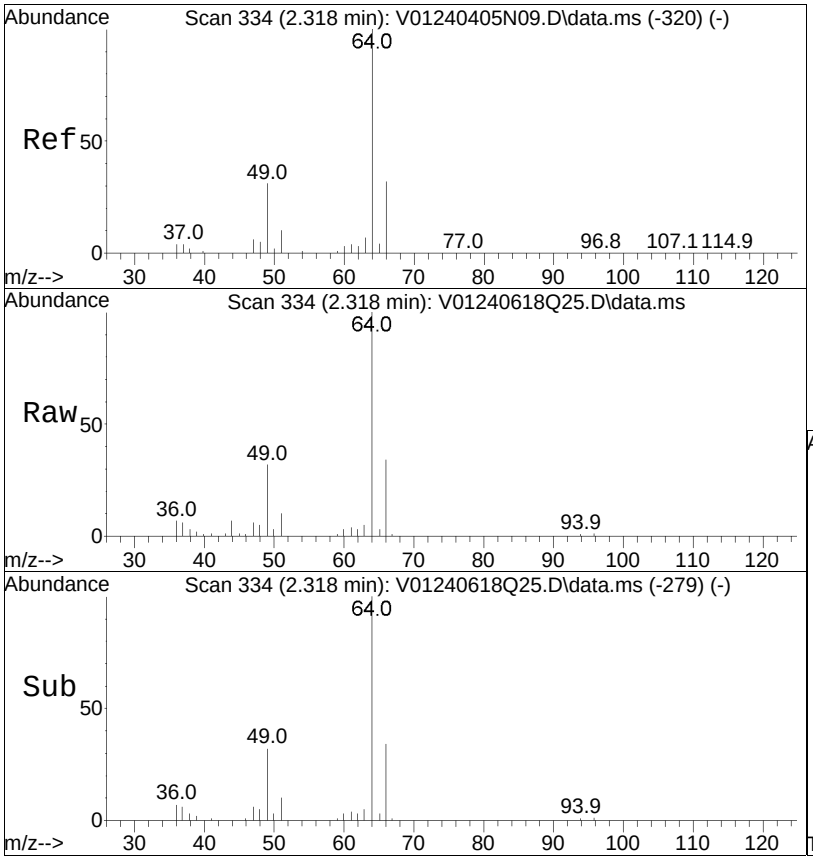


#5
Bromomethane
Concen: 3.35 ug/L
RT: 2.207 min Scan# 294
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 94 Resp: 16326

Ion	Ratio	Lower	Upper
94	100		
96	93.7	73.6	113.6

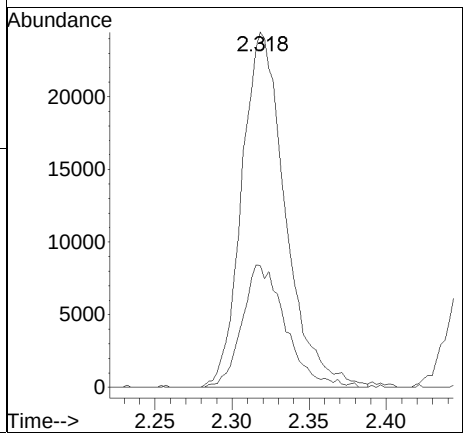


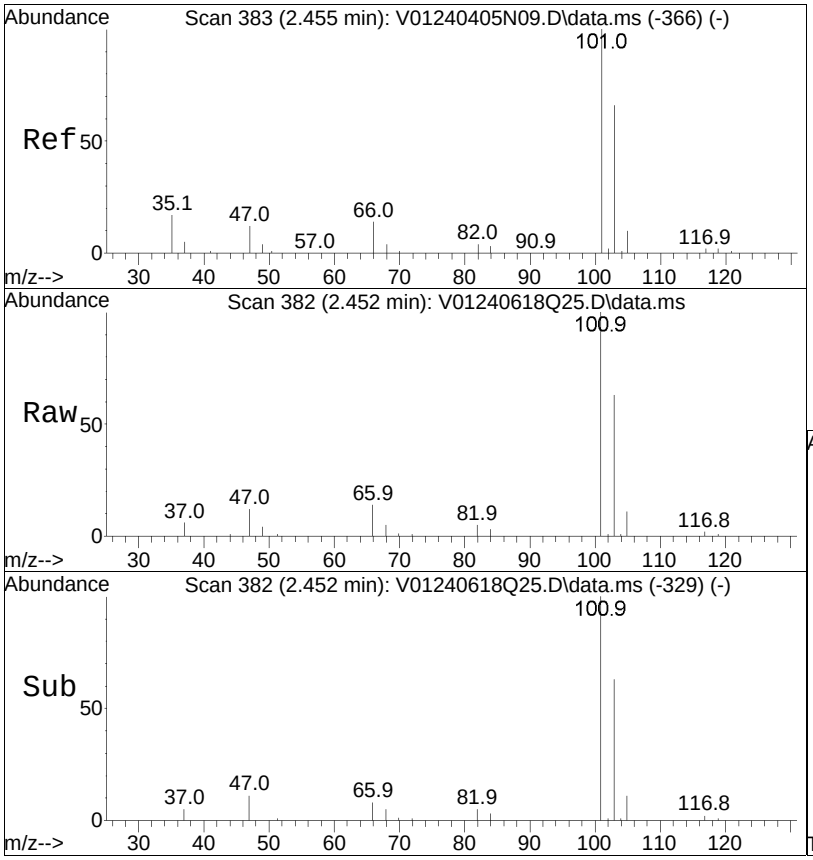


#6
Chloroethane
Concen: 10.71 ug/L
RT: 2.318 min Scan# 334
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 64 Resp: 48142

Ion	Ratio	Lower	Upper
64	100		
66	34.2	12.7	52.7

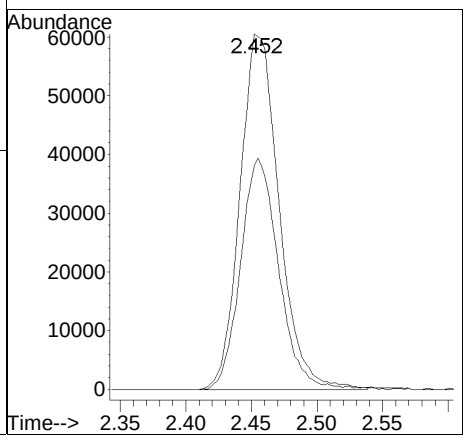


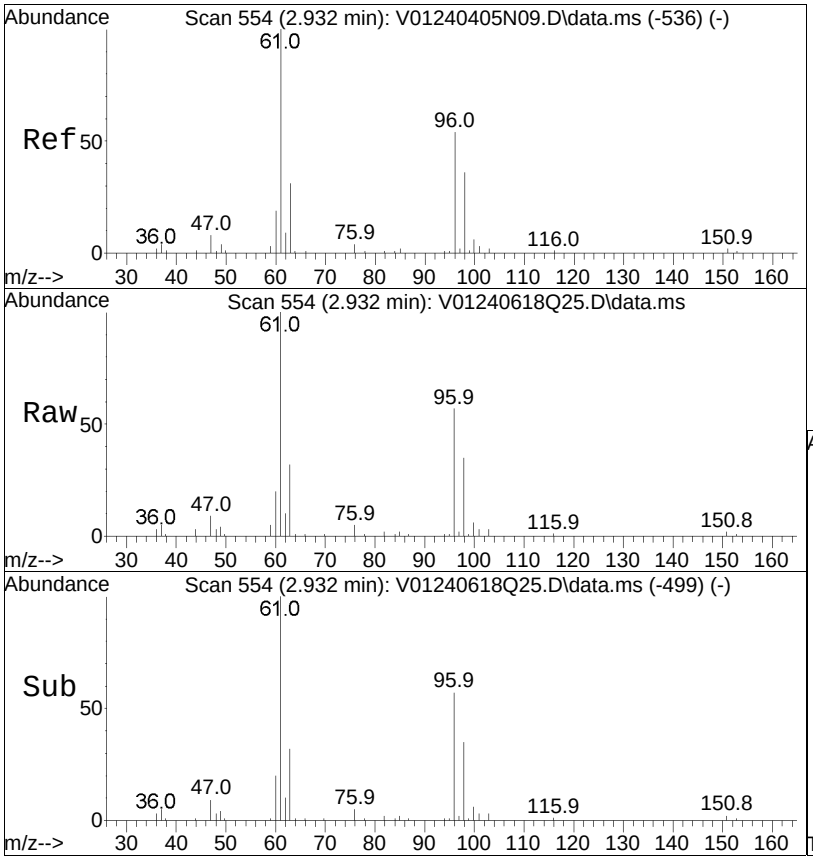


#7
Trichlorofluoromethane
Concen: 10.67 ug/L
RT: 2.452 min Scan# 382
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:101 Resp: 125583

Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.3	78.5

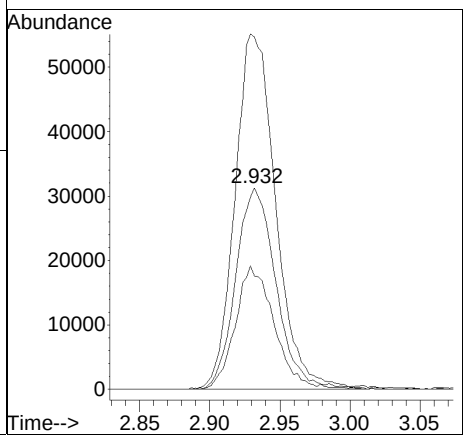


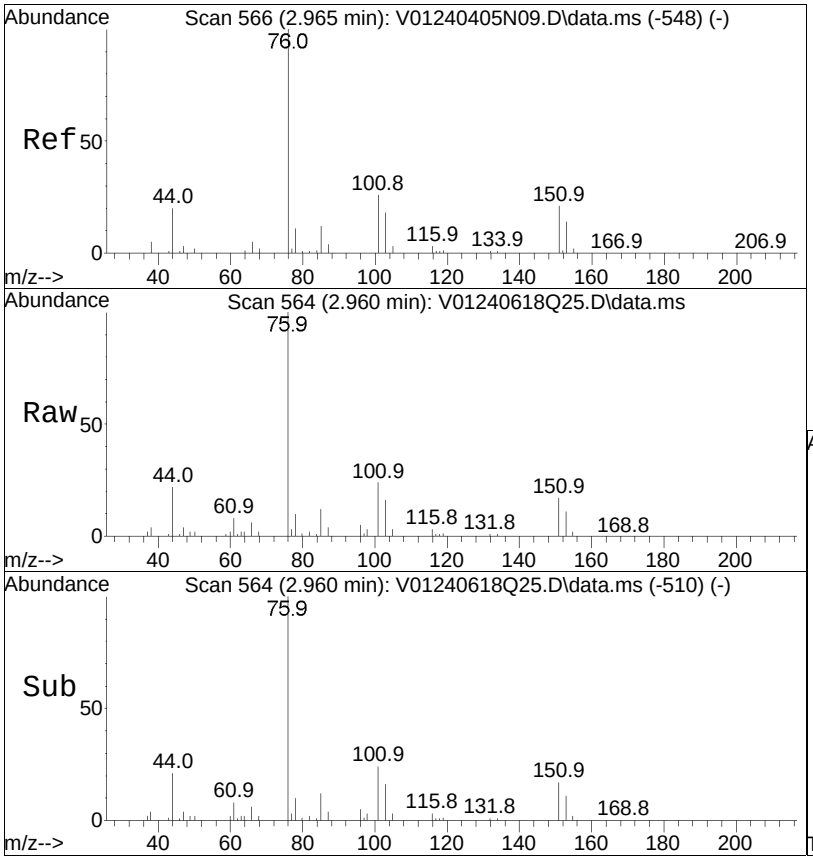


#10
1,1-Dichloroethene
Concen: 10.49 ug/L
RT: 2.932 min Scan# 554
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 96 Resp: 62731

Ion	Ratio	Lower	Upper
96	100		
61	177.5	136.8	205.2
63	59.3	43.6	65.4

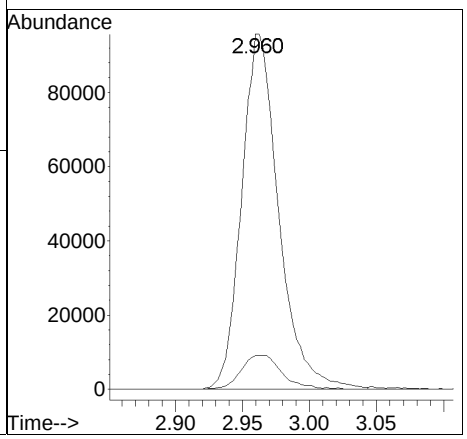


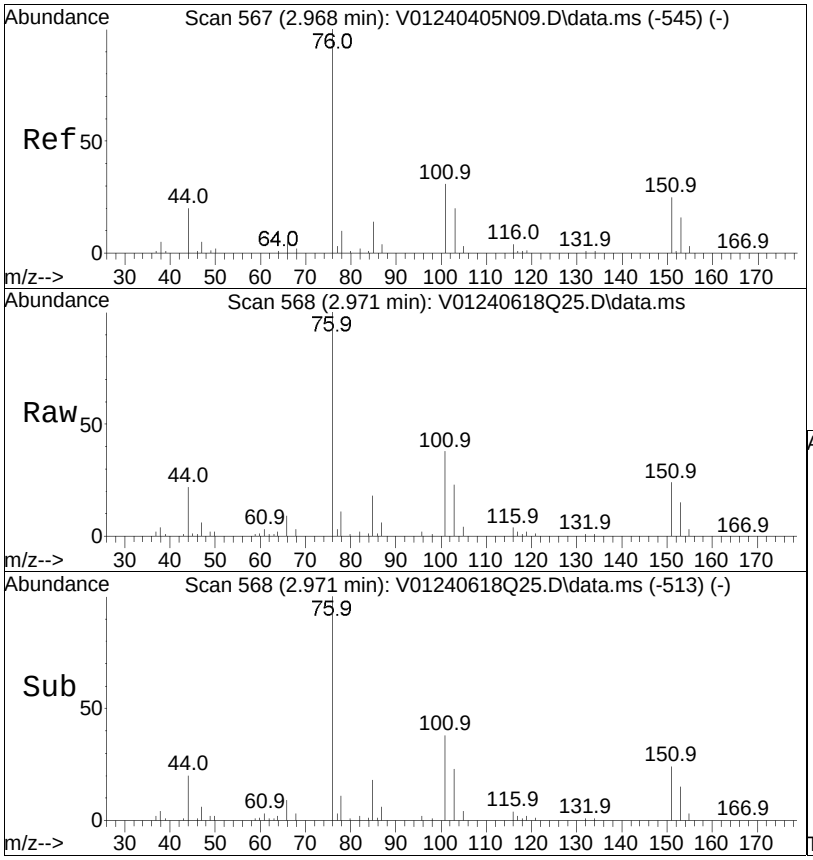


#11
Carbon disulfide
Concen: 10.27 ug/L
RT: 2.960 min Scan# 564
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 76 Resp: 184932

Ion	Ratio	Lower	Upper
76	100		
78	10.5	6.6	13.8

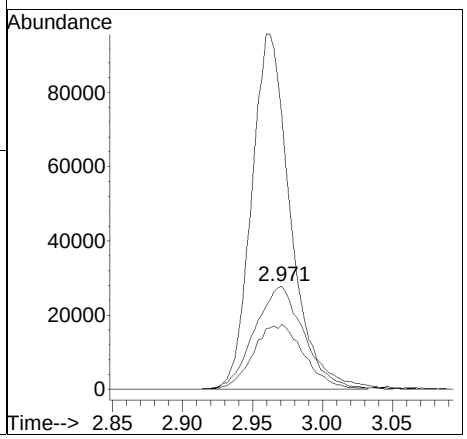


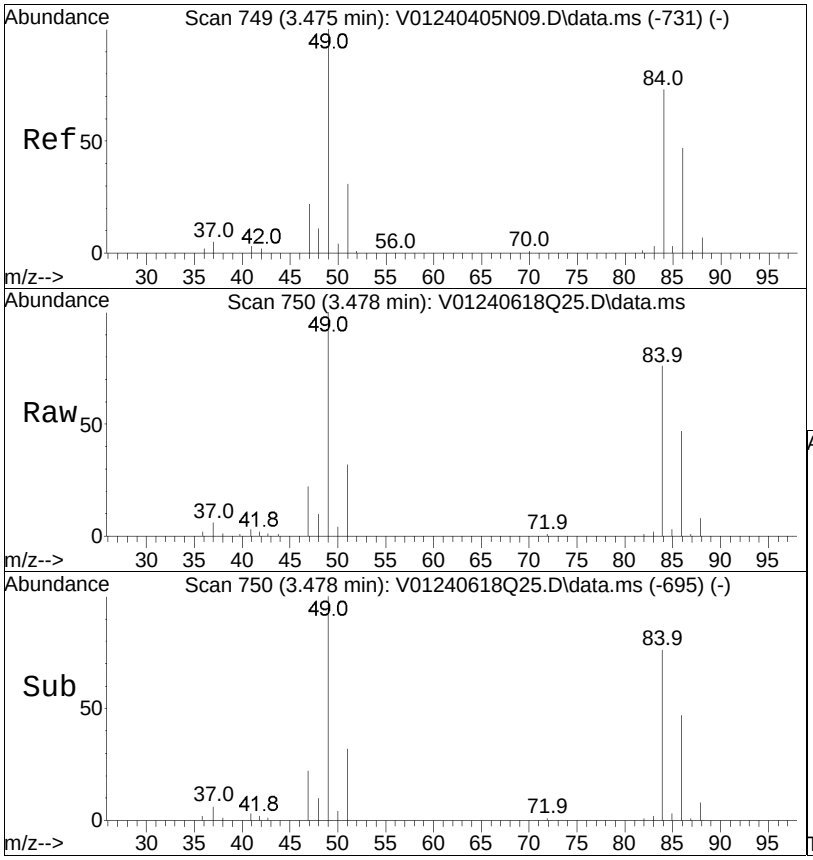


#12
Freon-113
Concen: 10.85 ug/L
RT: 2.971 min Scan# 568
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:101 Resp: 68734

Ion	Ratio	Lower	Upper
101	100		
151	64.8	61.2	91.8
76	269.1	194.8	292.2

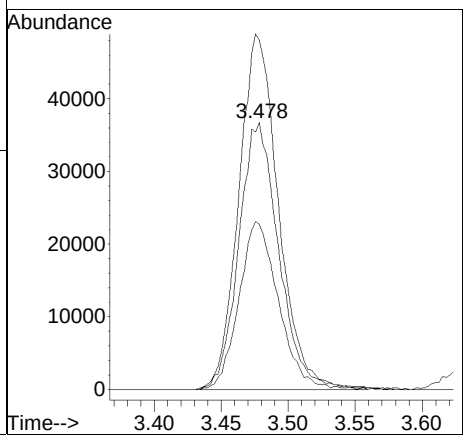


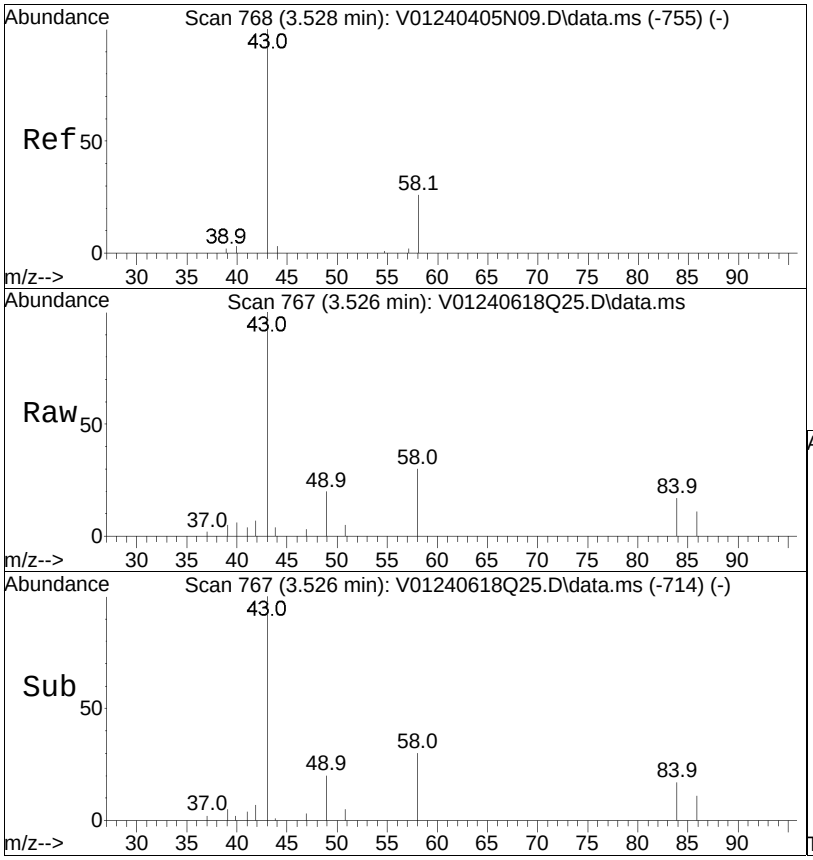


#15
Methylene chloride
Concen: 9.69 ug/L
RT: 3.478 min Scan# 750
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 84 Resp: 76198

Ion	Ratio	Lower	Upper
84	100		
86	62.1	41.7	86.7
49	131.8	89.1	185.1

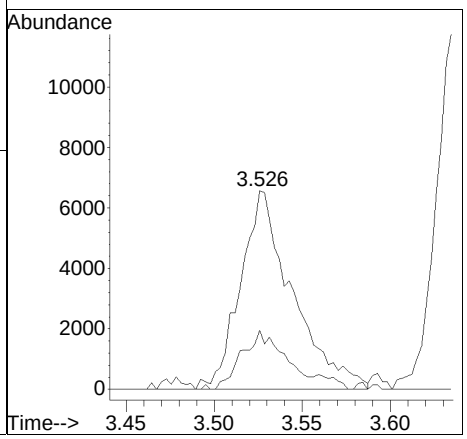


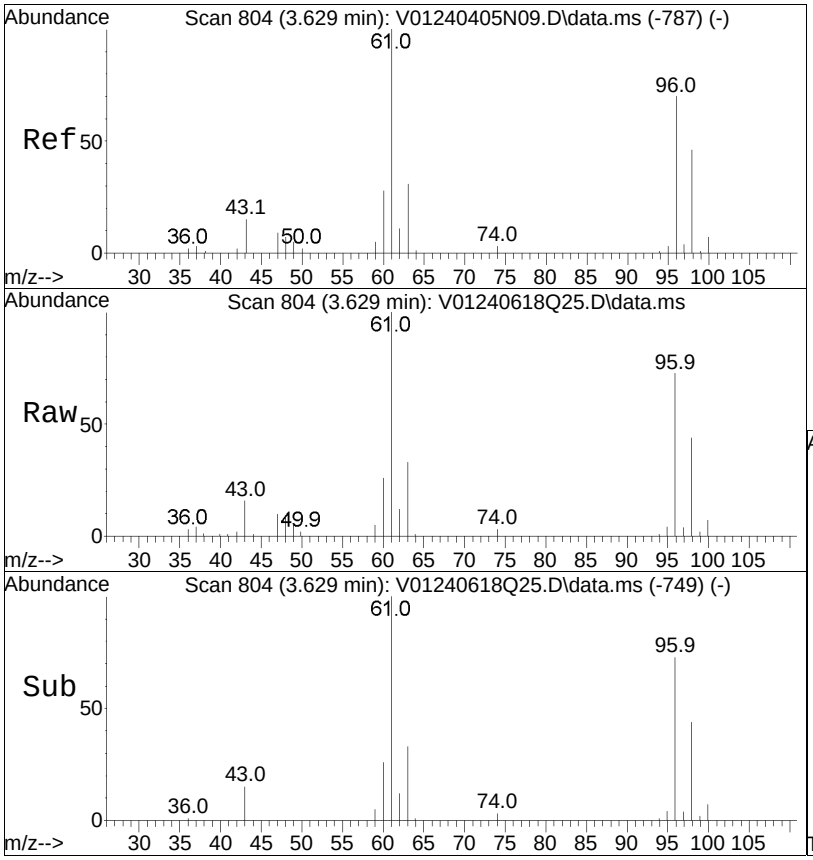


#17
Acetone
Concen: 7.25 ug/L
RT: 3.526 min Scan# 767
Delta R.T. -0.002 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 43 Resp: 13498

Ion	Ratio	Lower	Upper
43	100		
58	24.1	25.9	38.9#

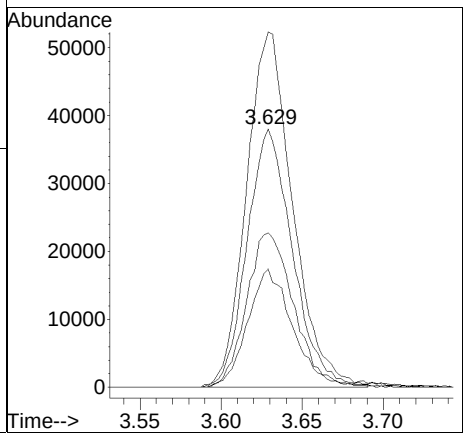


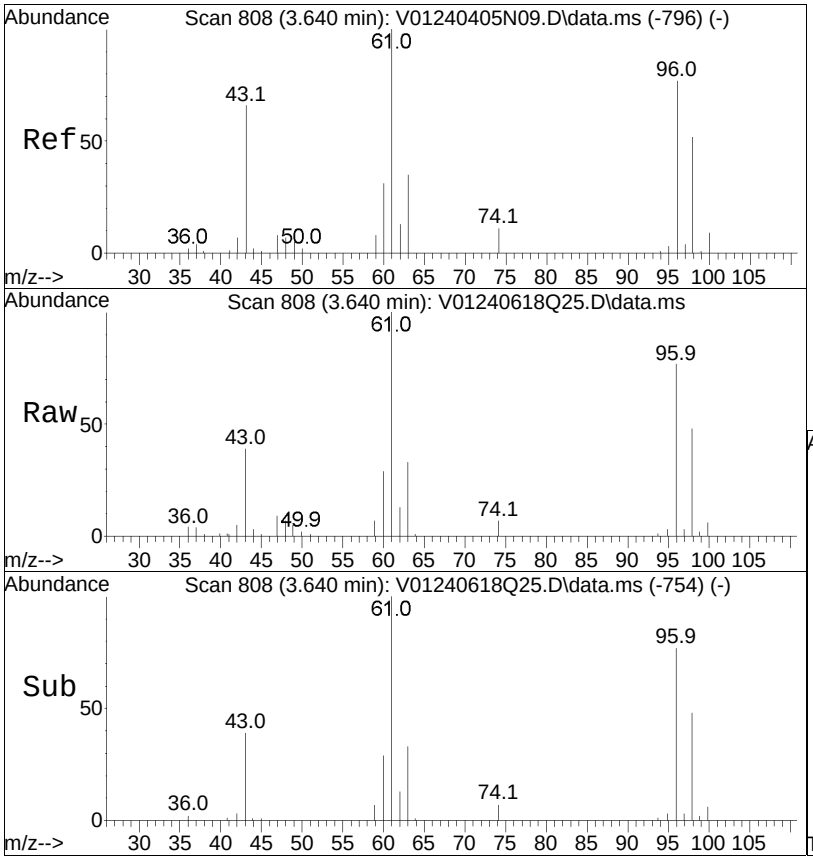


#18
trans-1,2-Dichloroethene
Concen: 10.32 ug/L
RT: 3.629 min Scan# 804
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 96 Resp: 74359

Ion	Ratio	Lower	Upper
96	100		
61	139.3	95.3	197.9
98	62.5	41.0	85.2
63	45.3	30.2	62.6

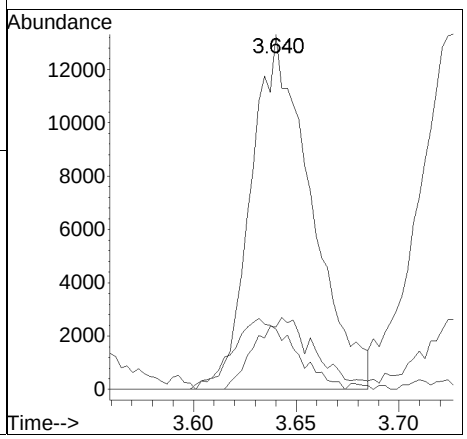


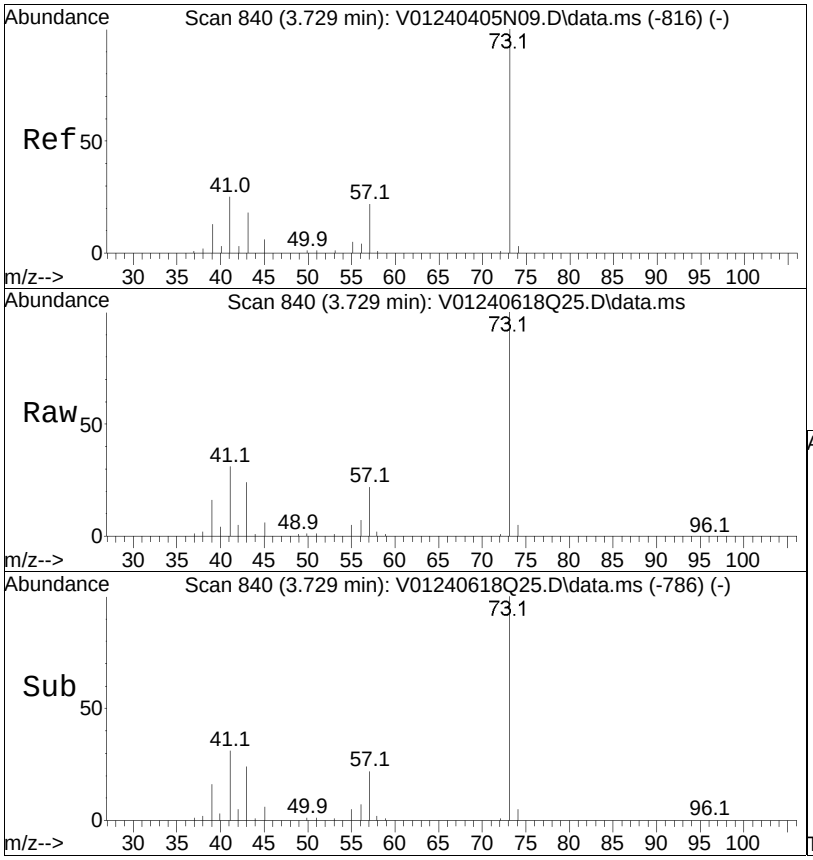


#19
Methyl acetate
Concen: 8.51 ug/L
RT: 3.640 min Scan# 808
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 43 Resp: 27098

Ion	Ratio	Lower	Upper
43	100		
74	19.6	18.2	27.2
59	20.7	18.2	27.2

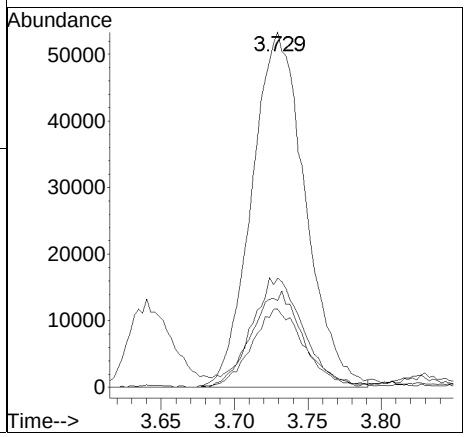


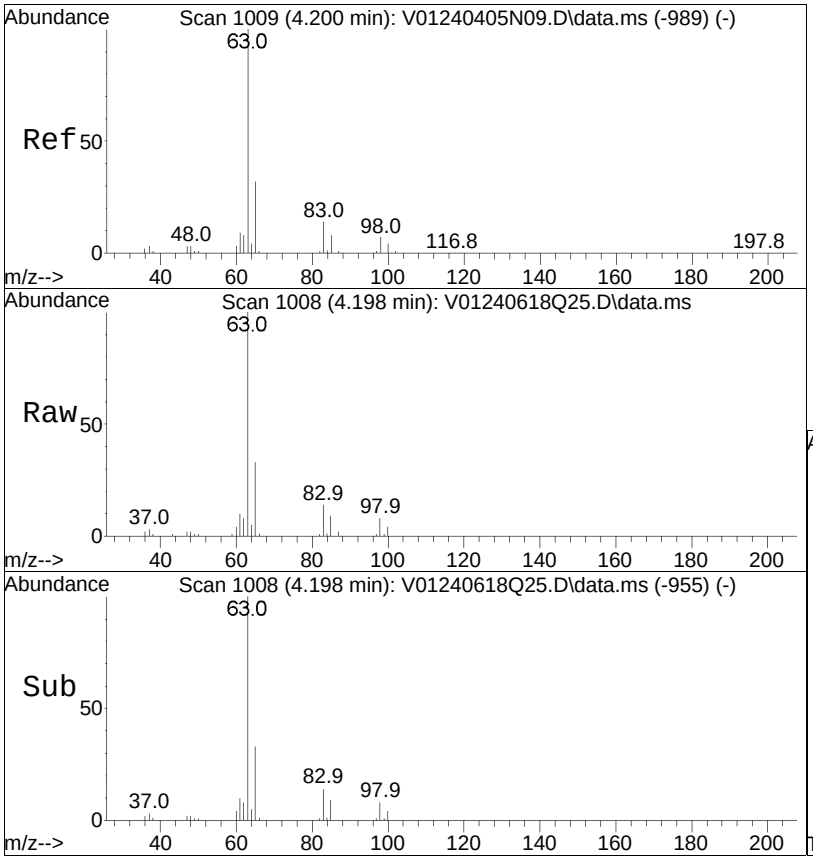


#20
Methyl tert-butyl ether
Concen: 7.93 ug/L
RT: 3.729 min Scan# 840
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 73 Resp: 135275

Ion	Ratio	Lower	Upper
73	100		
57	21.7	14.8	30.6
43	24.6	15.5	32.3
41	29.9	14.1	29.3#

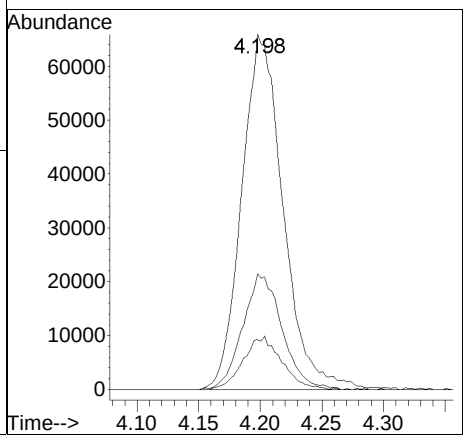


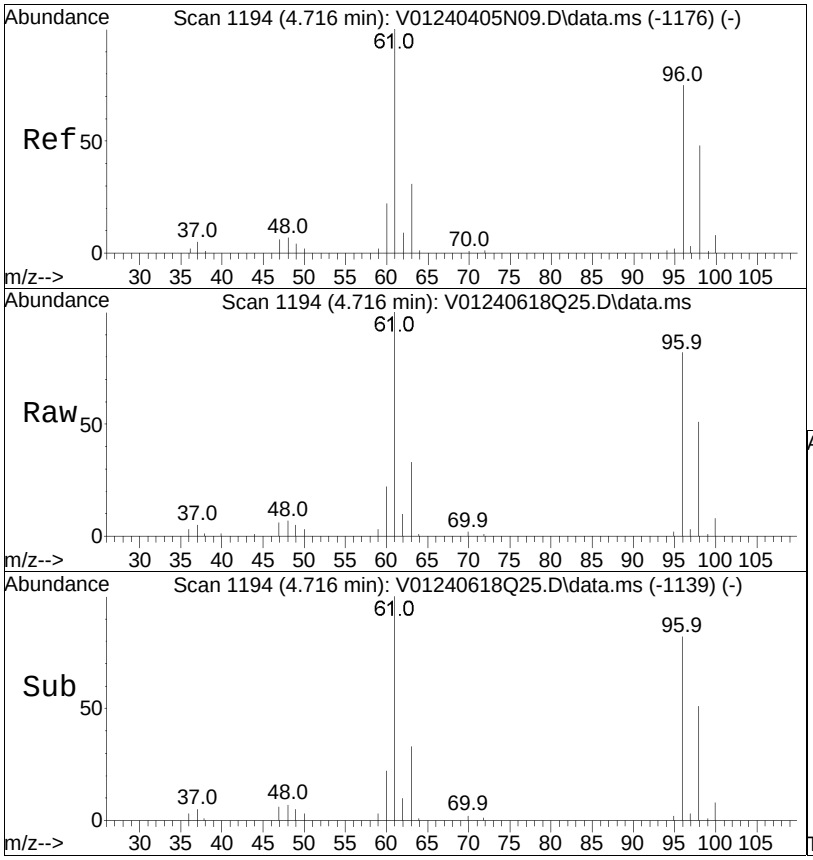


#23
1,1-Dichloroethane
Concen: 11.18 ug/L
RT: 4.198 min Scan# 1008
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 63 Resp: 153630

Ion	Ratio	Lower	Upper
63	100		
65	30.9	10.9	50.9
83	13.8	0.0	33.0

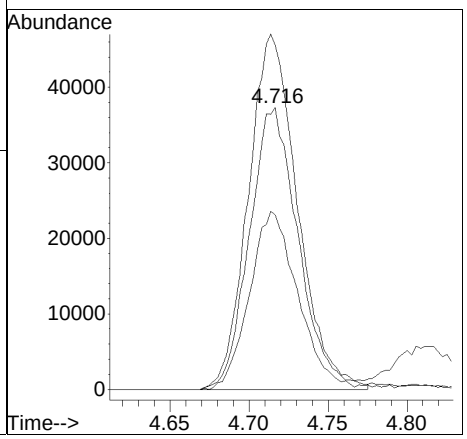


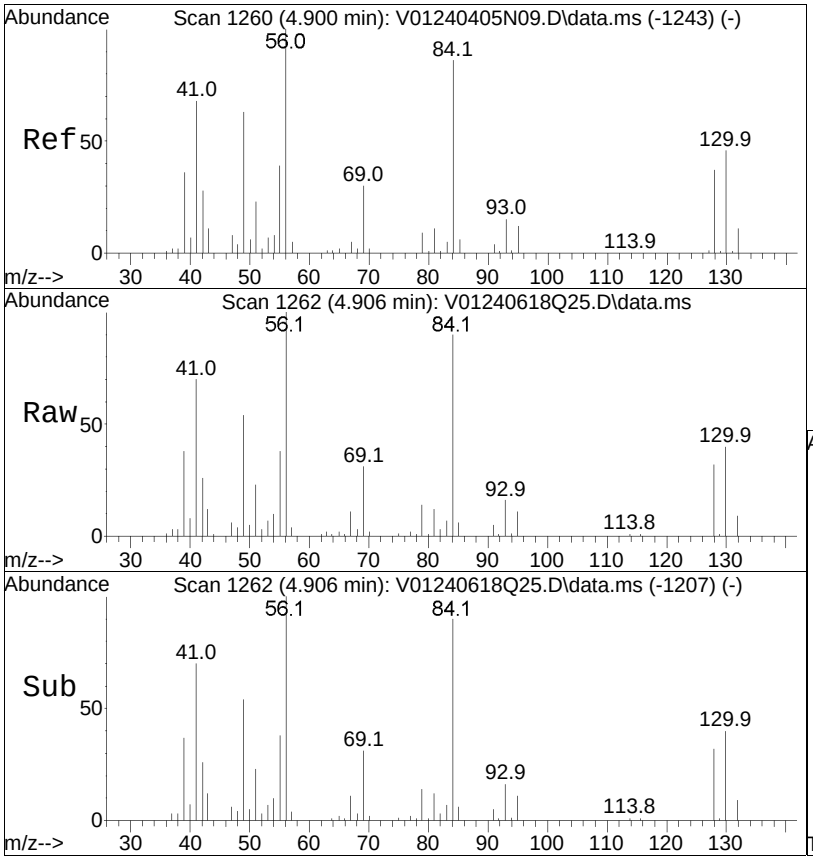


#28
cis-1,2-Dichloroethene
Concen: 10.07 ug/L
RT: 4.716 min Scan# 1194
Delta R.T. 0.002 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 96 Resp: 80309

Ion	Ratio	Lower	Upper
96	100		
61	126.8	105.8	158.6
98	62.5	51.1	76.7

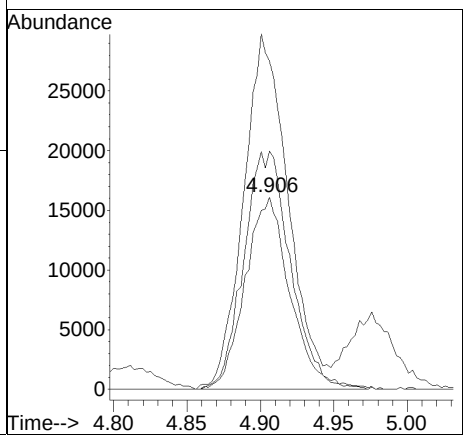


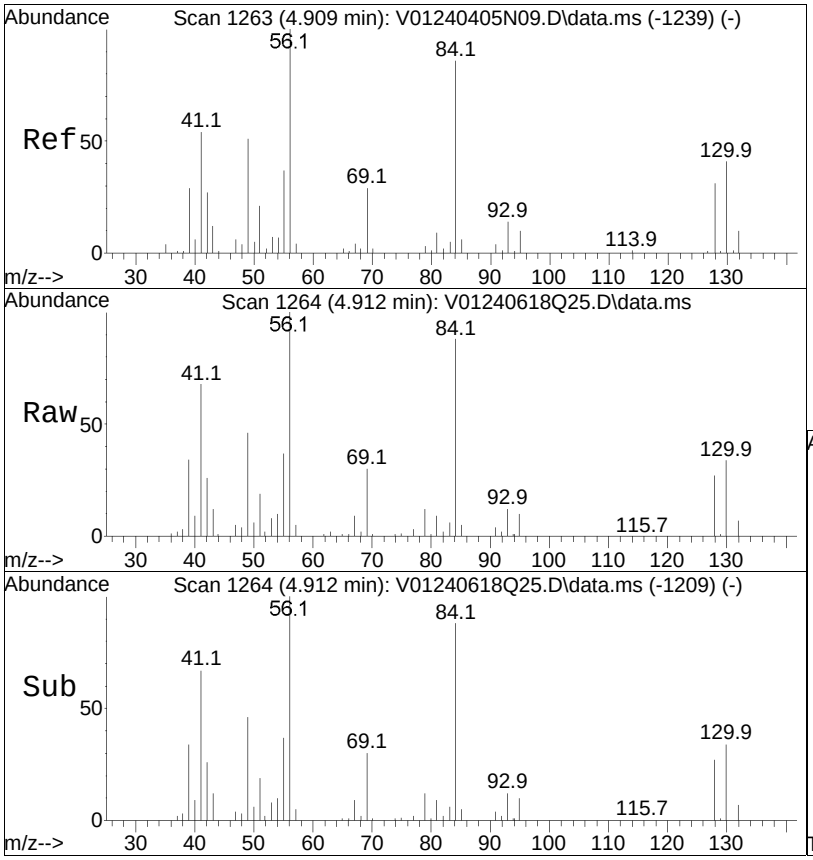


#30
Bromochloromethane
Concen: 9.68 ug/L
RT: 4.906 min Scan# 1262
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:128 Resp: 34178

Ion	Ratio	Lower	Upper
128	100		
49	184.6	140.4	210.6
130	63.9	103.1	154.7#

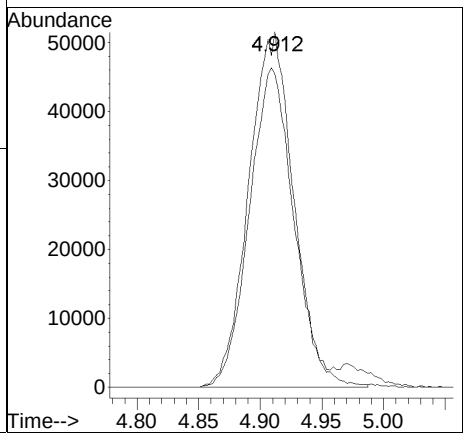


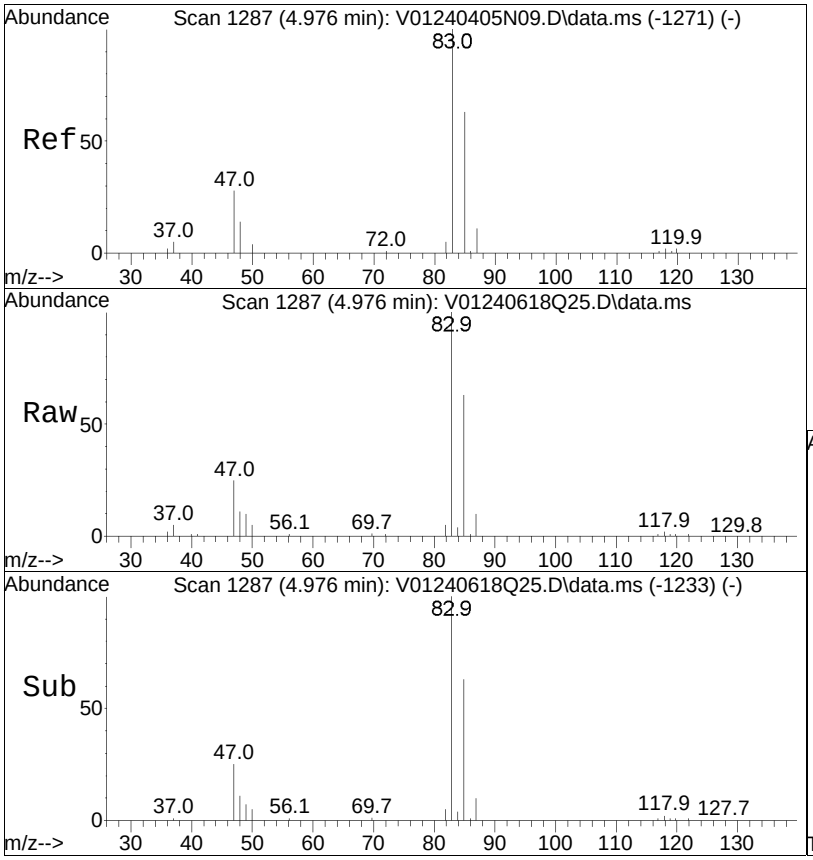


#31
Cyclohexane
Concen: 11.03 ug/L
RT: 4.912 min Scan# 1264
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 56 Resp: 131487

Ion	Ratio	Lower	Upper
56	100		
84	87.8	53.6	111.4

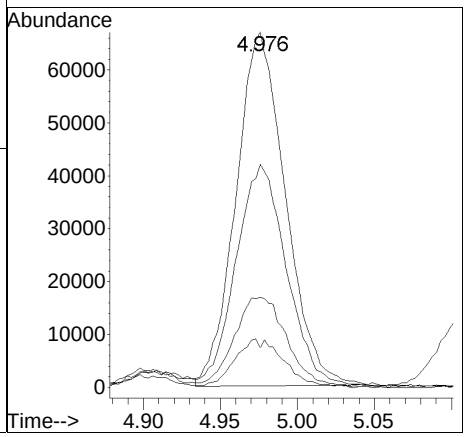


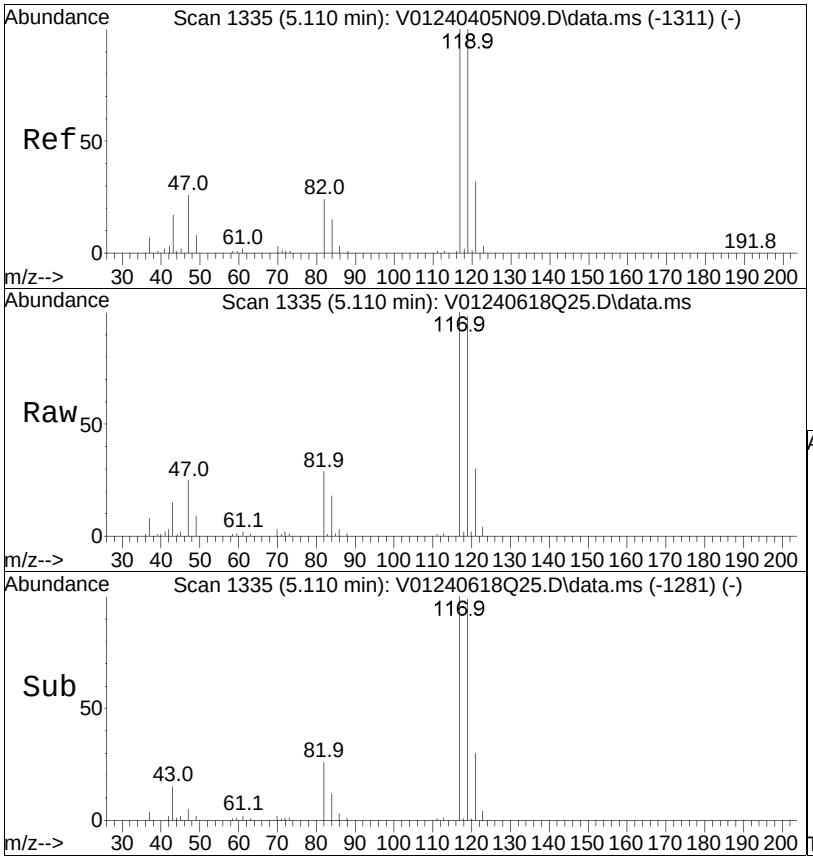


#32
Chloroform
Concen: 11.05 ug/L
RT: 4.976 min Scan# 1287
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 83 Resp: 149455

Ion	Ratio	Lower	Upper
83	100		
85	63.8	42.3	87.8
47	26.7	17.8	37.0
48	13.7	9.3	19.3

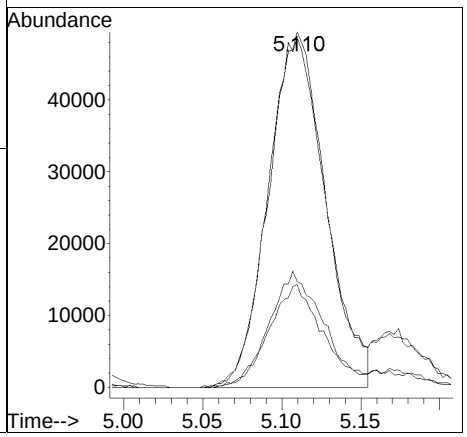


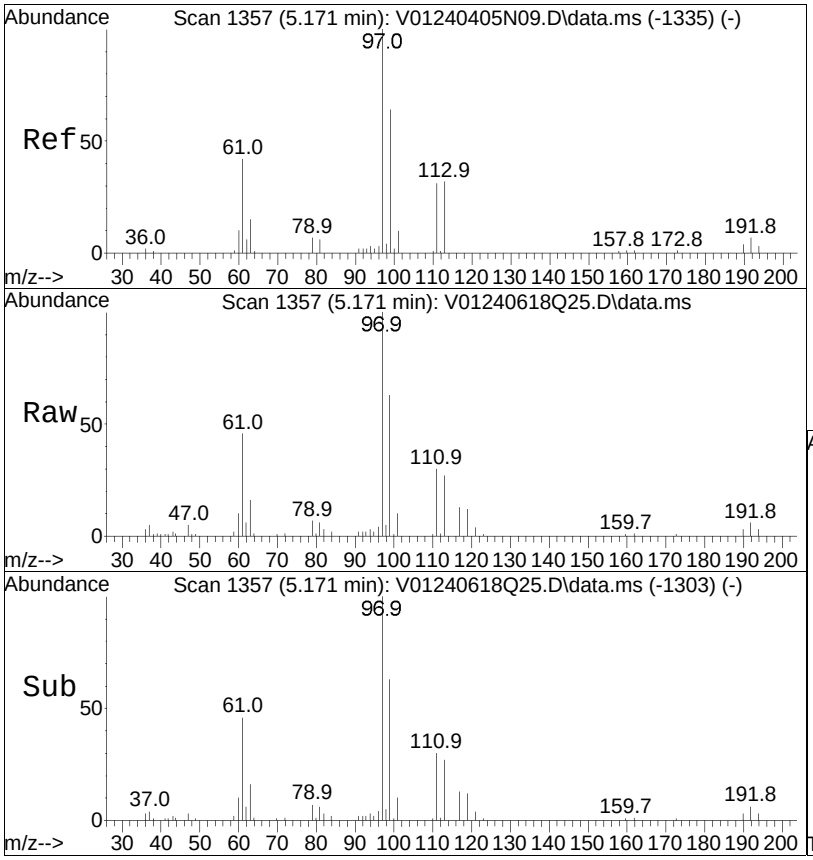


#34
Carbon tetrachloride
Concen: 11.59 ug/L
RT: 5.110 min Scan# 1335
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:117 Resp: 125223

Ion	Ratio	Lower	Upper
117	100		
119	97.9	62.1	128.9
121	30.7	19.8	41.0
82	27.5	17.1	35.5

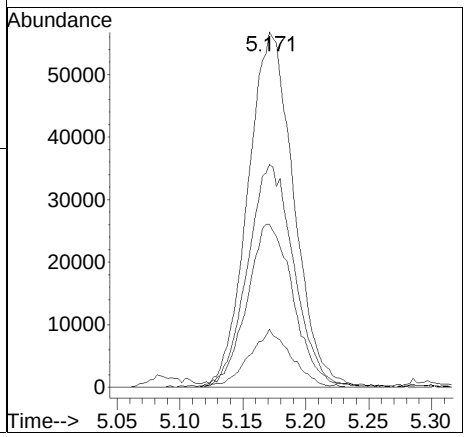


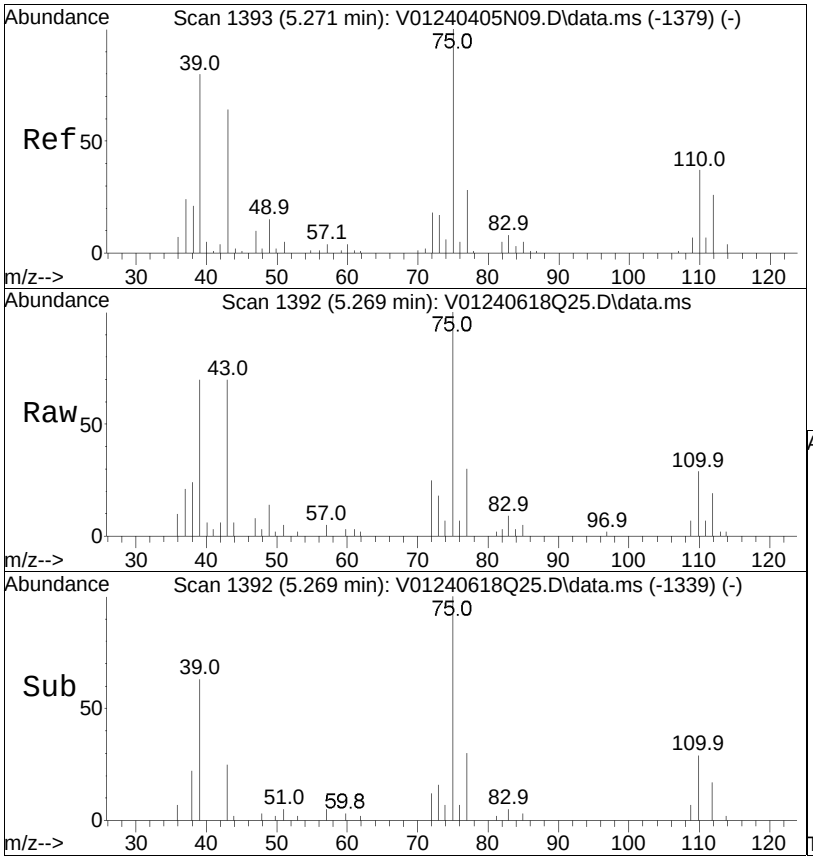


#37
1,1,1-Trichloroethane
Concen: 11.96 ug/L
RT: 5.171 min Scan# 1357
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 97 Resp: 144827

Ion	Ratio	Lower	Upper
97	100		
99	63.4	41.7	86.7
61	46.0	29.4	61.2
63	14.1	9.4	19.4

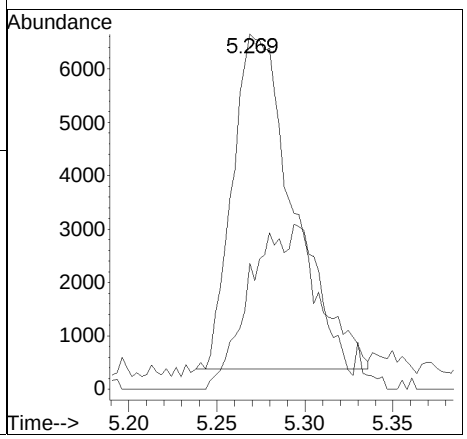


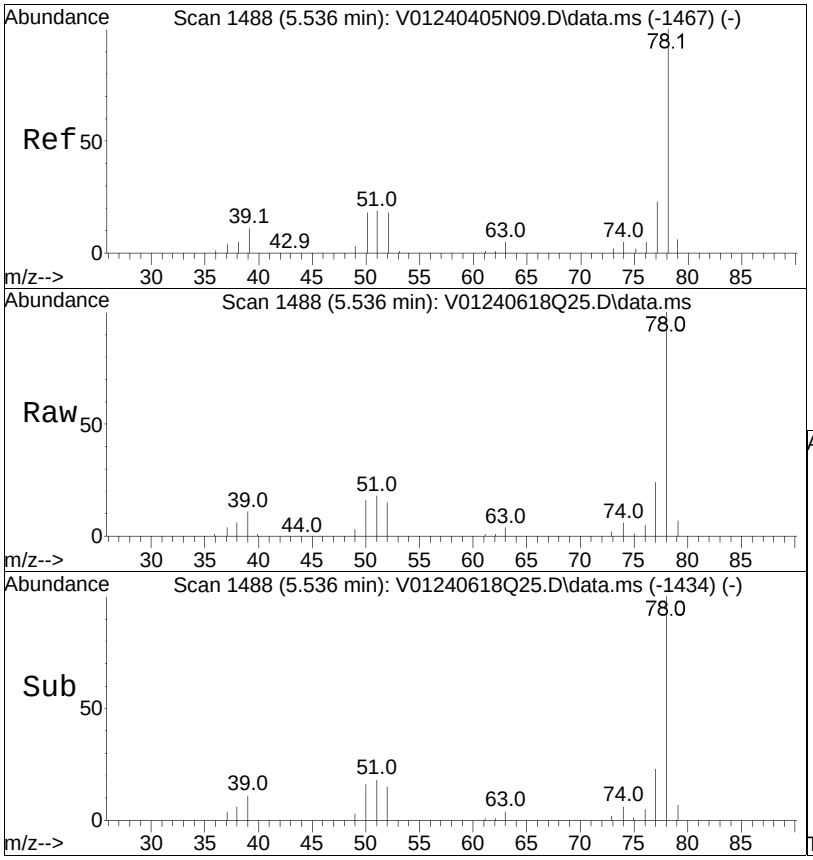


#39
2-Butanone
Concen: 8.19 ug/L
RT: 5.269 min Scan# 1392
Delta R.T. -0.002 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 43 Resp: 15008

Ion	Ratio	Lower	Upper
43	100		
72	29.3	45.8	68.6#

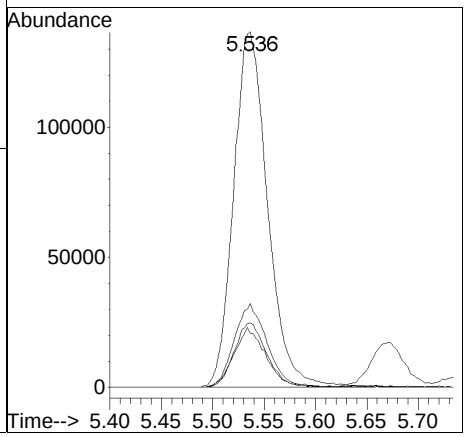


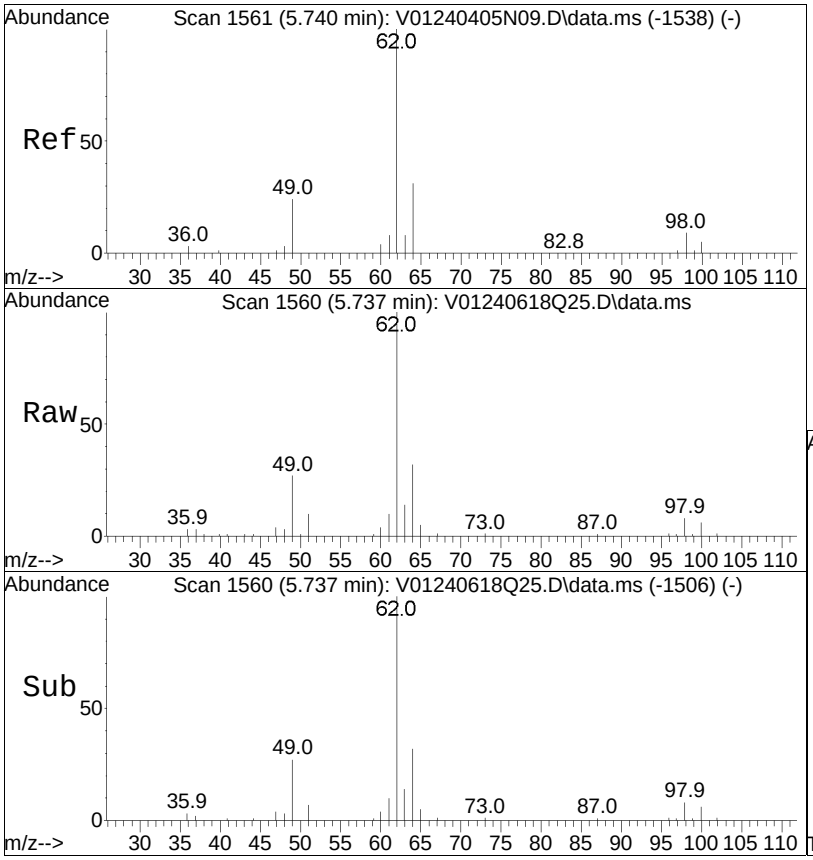


#41
Benzene
Concen: 10.86 ug/L
RT: 5.536 min Scan# 1488
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 78 Resp: 315613

Ion	Ratio	Lower	Upper
78	100		
77	22.9	15.7	32.5
51	17.5	11.6	24.2
52	15.6	10.9	22.5

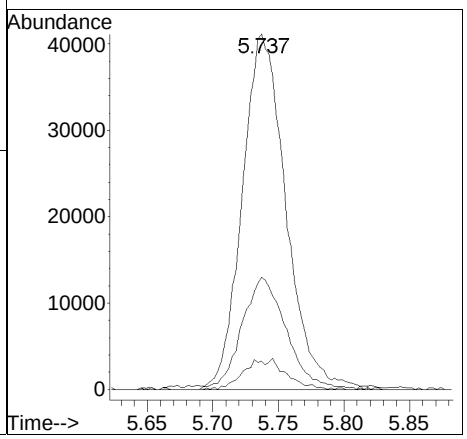


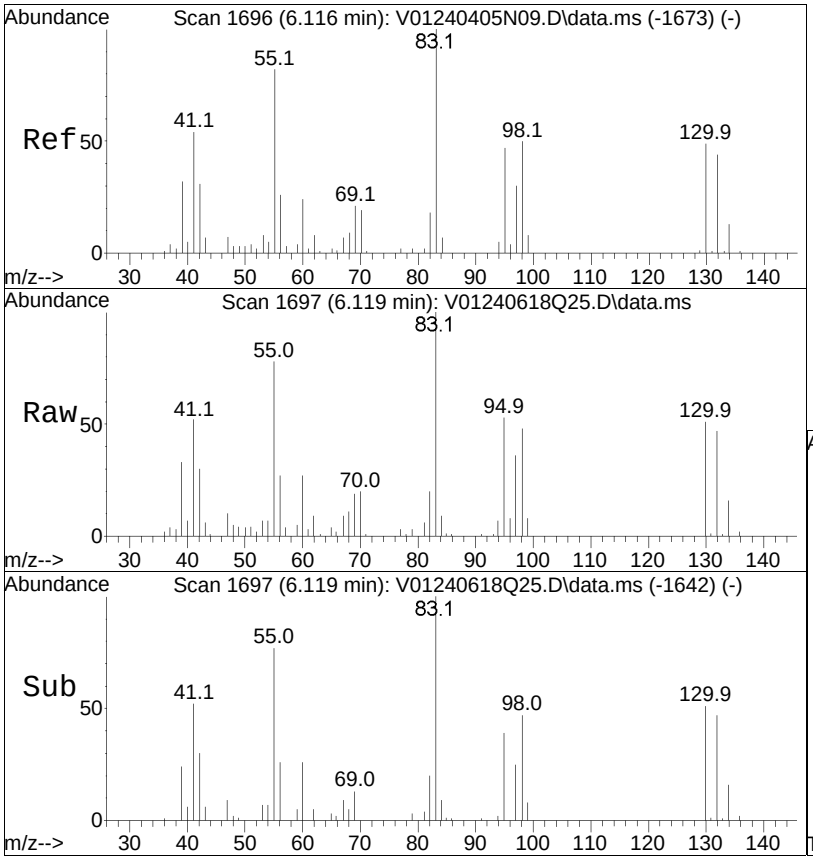


#44
1,2-Dichloroethane
Concen: 10.10 ug/L
RT: 5.737 min Scan# 1560
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 62 Resp: 95440

Ion	Ratio	Lower	Upper
62	100		
64	31.9	12.1	52.1
98	4.4	0.0	28.8

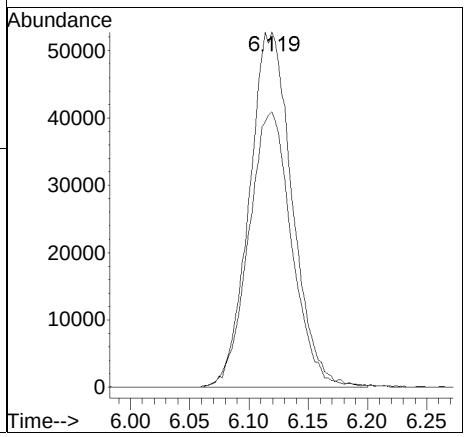


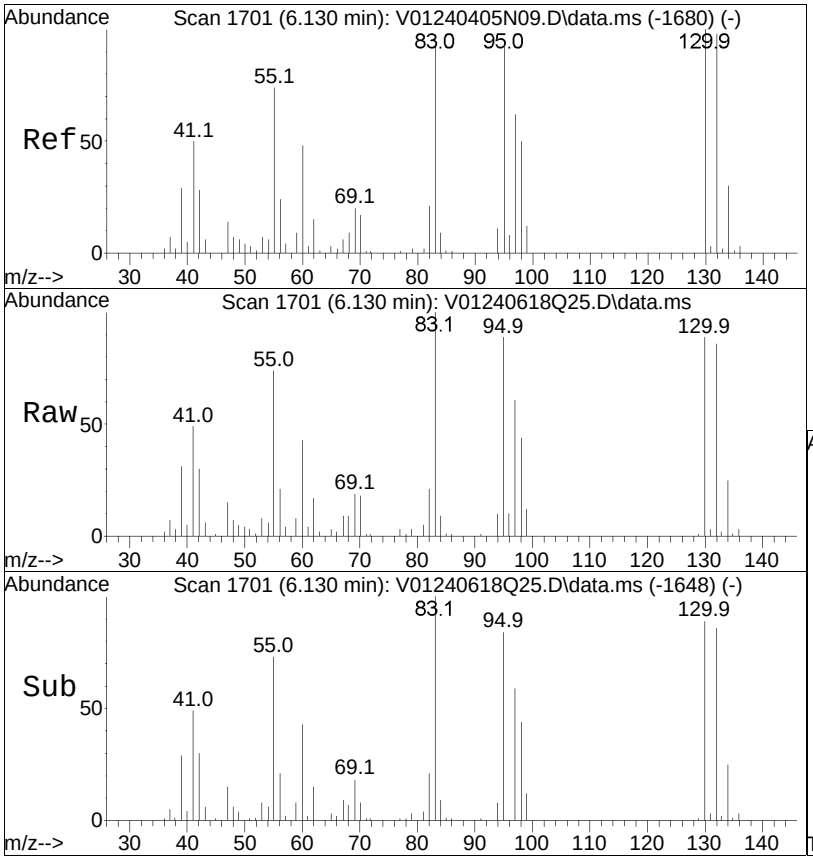


#47
Methyl cyclohexane
Concen: 11.21 ug/L
RT: 6.119 min Scan# 1697
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 83 Resp: 133355

Ion	Ratio	Lower	Upper
83	100		
55	77.5	64.6	96.8

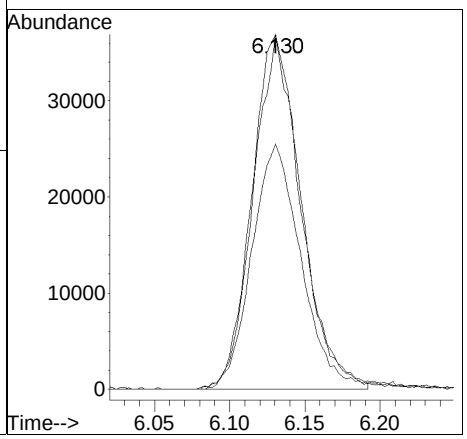


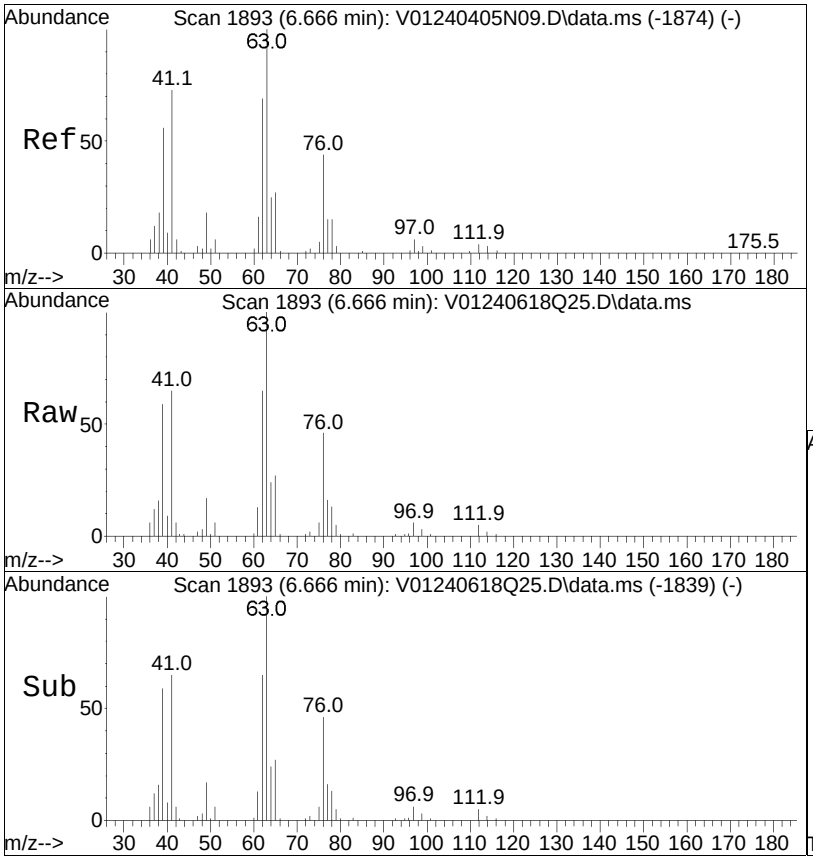


#48
Trichloroethene
Concen: 9.91 ug/L
RT: 6.130 min Scan# 1701
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 95 Resp: 84666

Ion	Ratio	Lower	Upper
95	100		
97	69.7	54.4	81.6
130	95.1	80.6	120.8

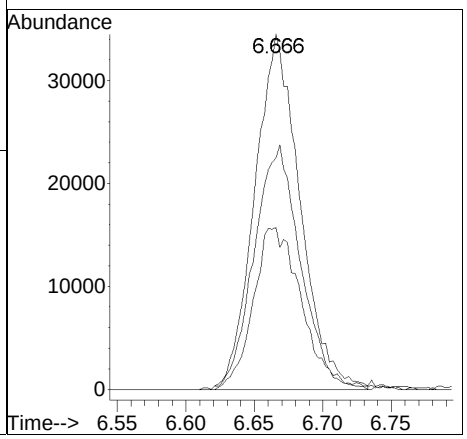


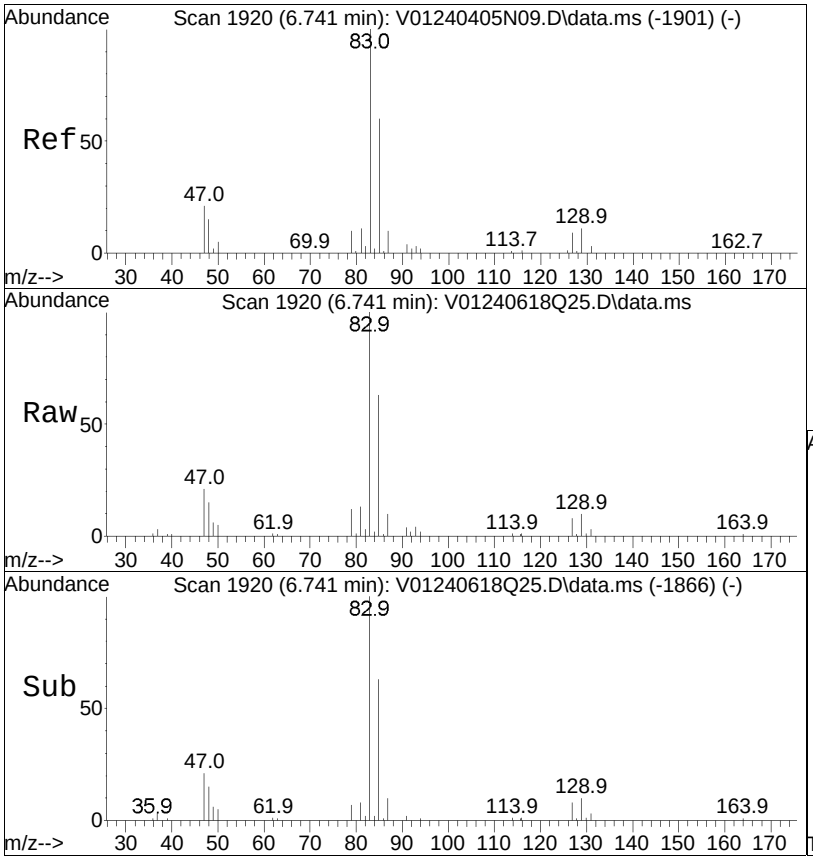


#51
1,2-Dichloropropane
Concen: 10.66 ug/L
RT: 6.666 min Scan# 1893
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 63 Resp: 79552

Ion	Ratio	Lower	Upper
63	100		
62	70.8	57.2	85.8
76	48.2	33.6	50.4

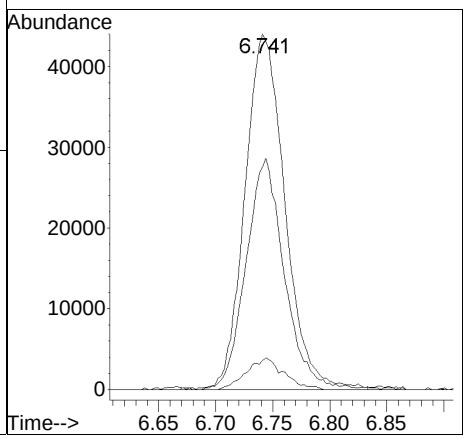


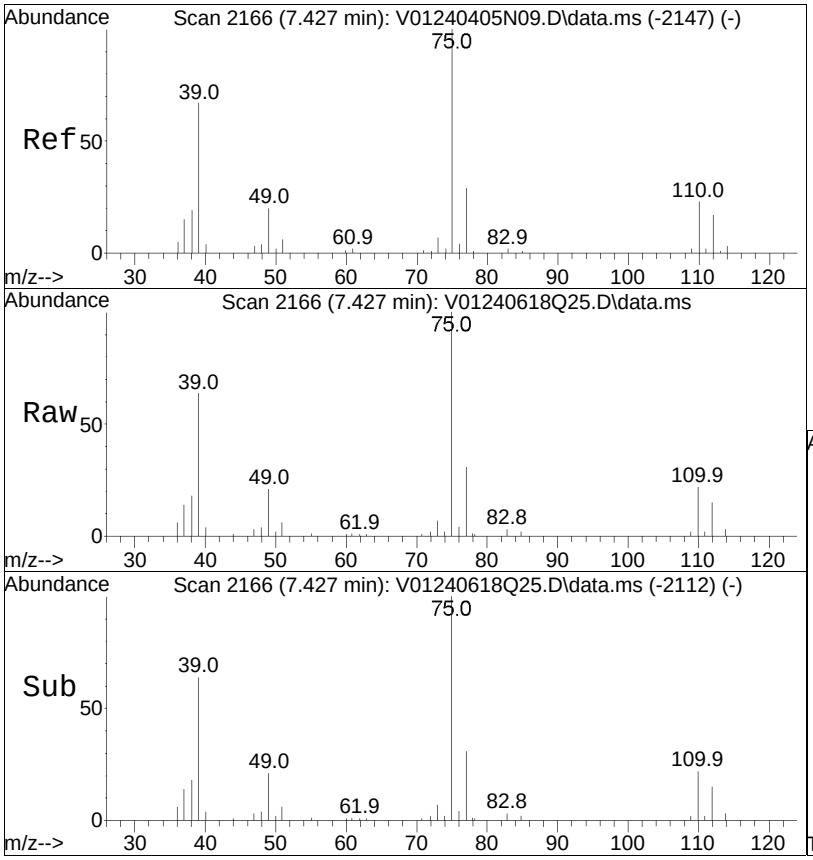


#54
Bromodichloromethane
Concen: 10.12 ug/L
RT: 6.741 min Scan# 1920
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 83 Resp: 107222

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.2	78.4
127	8.2	6.9	10.3

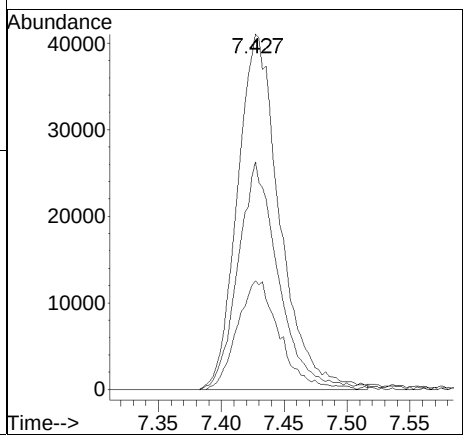


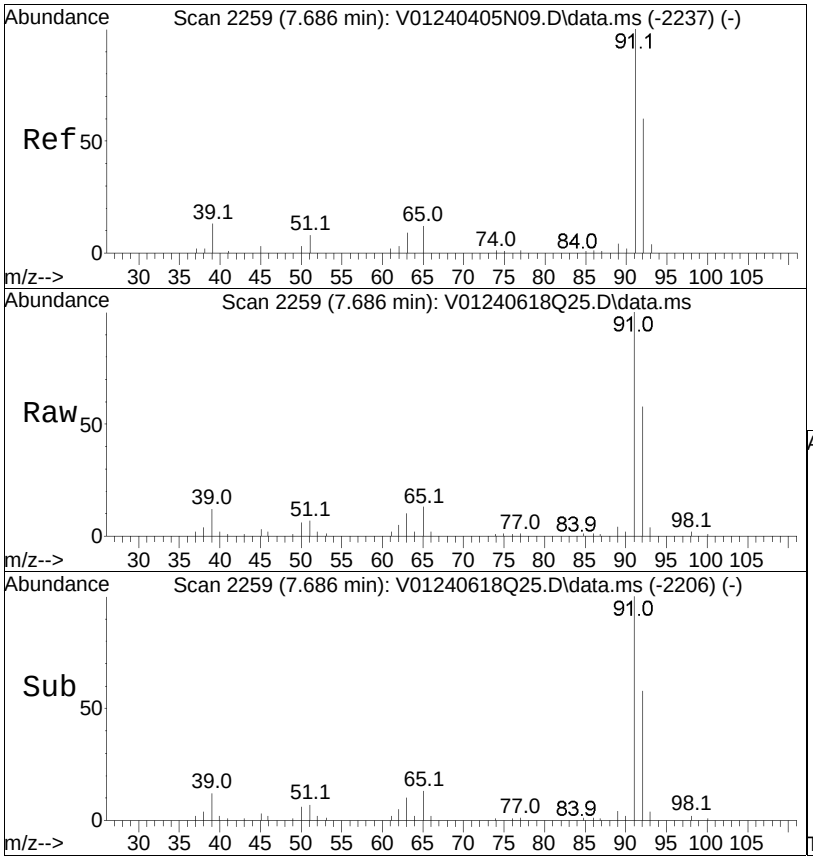


#58
cis-1,3-Dichloropropene
Concen: 8.30 ug/L
RT: 7.427 min Scan# 2166
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 75 Resp: 96047

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.1	37.7
39	60.8	42.6	63.8

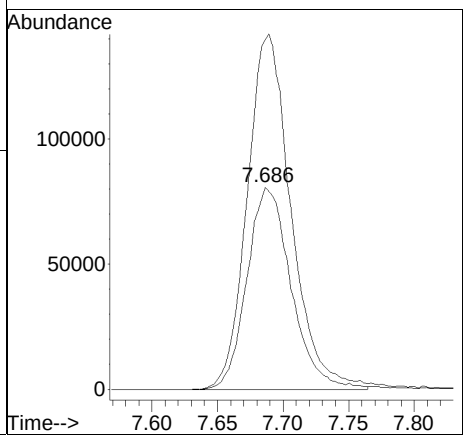


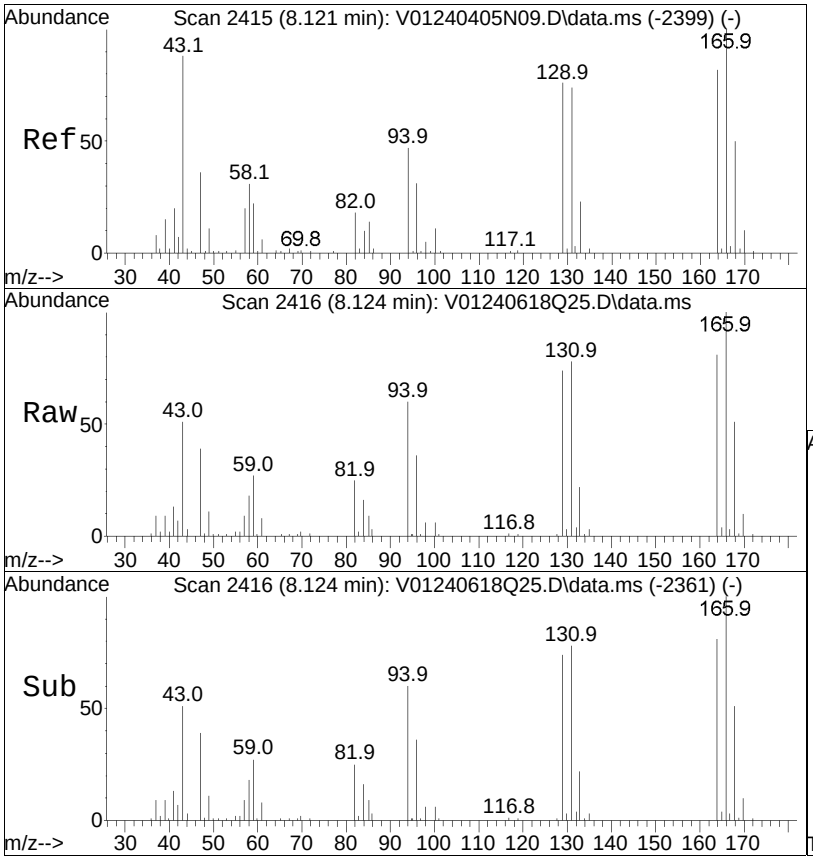


#61
Toluene
Concen: 10.62 ug/L
RT: 7.686 min Scan# 2259
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 92 Resp: 189142

Ion	Ratio	Lower	Upper
92	100		
91	175.5	137.5	206.3

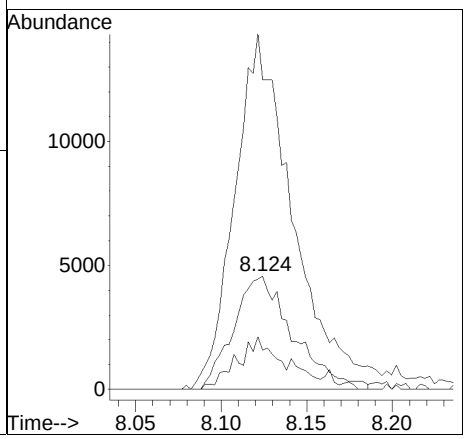


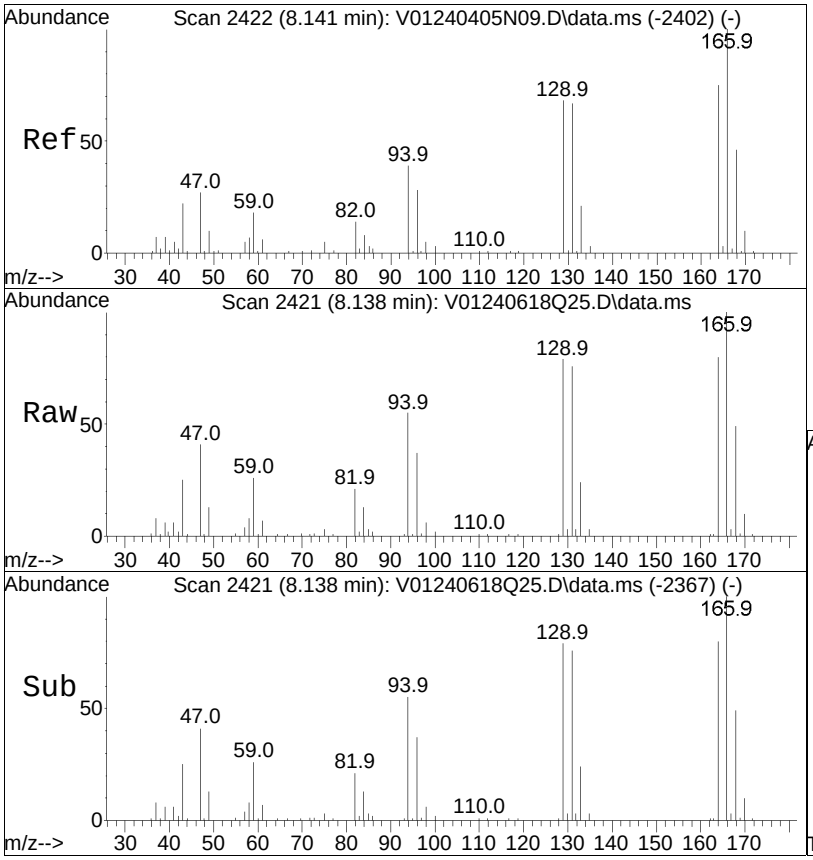


#62
4-Methyl-2-pentanone
Concen: 6.85 ug/L
RT: 8.124 min Scan# 2416
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 58 Resp: 11119

Ion	Ratio	Lower	Upper
58	100		
100	29.4	31.8	47.6#
43	306.5	212.5	318.7

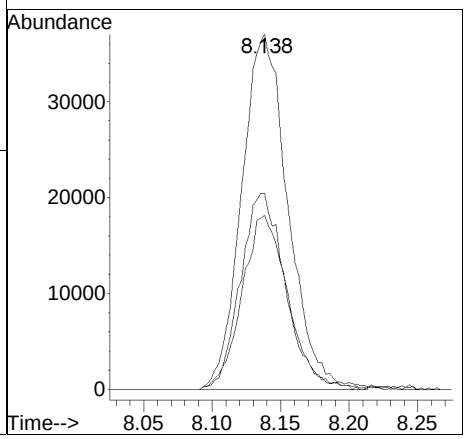


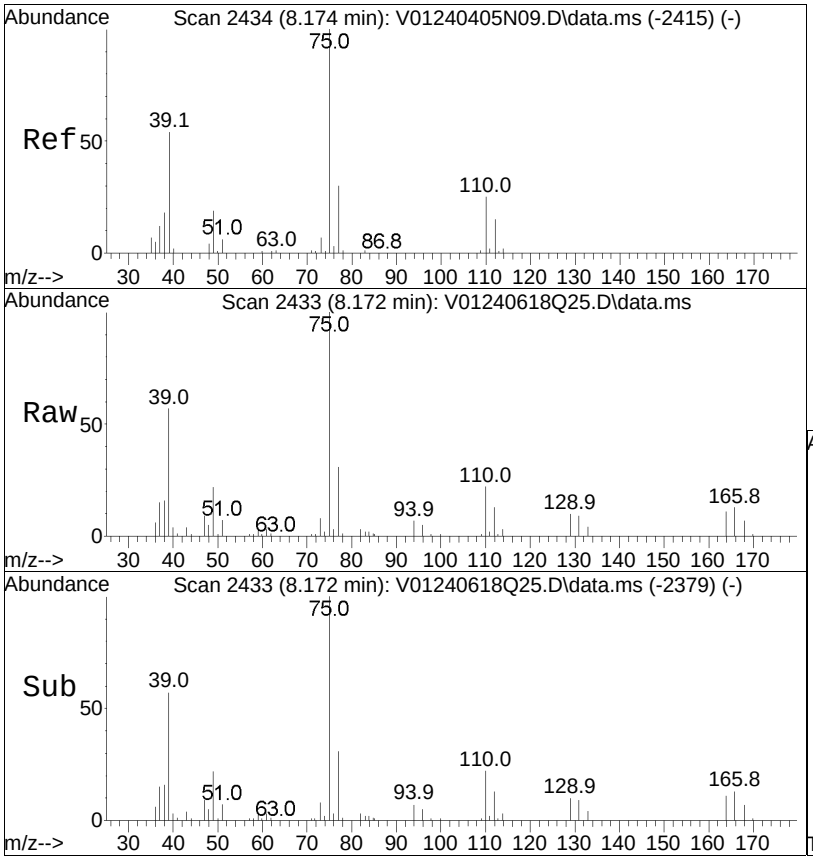


#63
Tetrachloroethene
Concen: 10.62 ug/L
RT: 8.138 min Scan# 2421
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:166 Resp: 87259

Ion	Ratio	Lower	Upper
166	100		
168	48.0	27.4	67.4
94	54.4	24.8	64.8

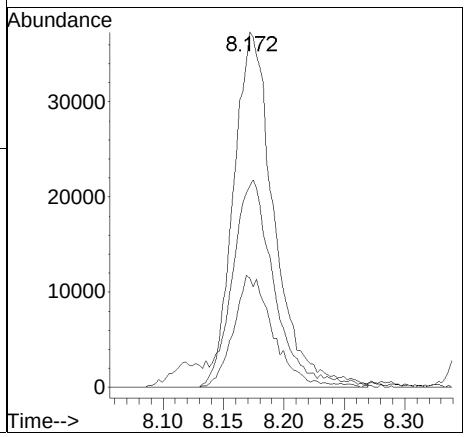


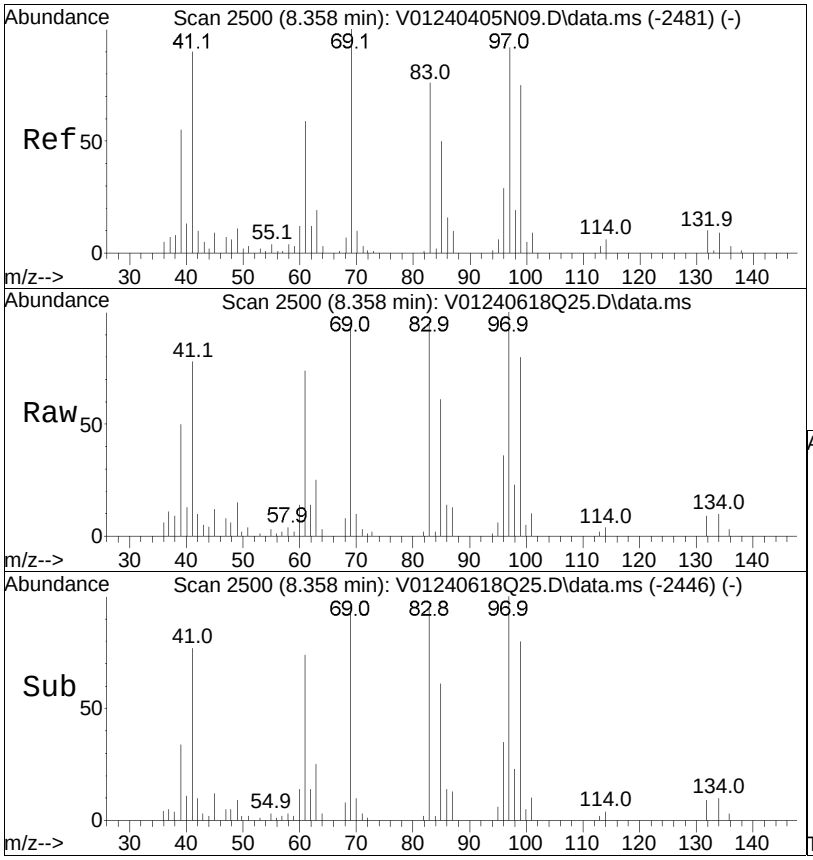


#65
trans-1,3-Dichloropropene
Concen: 8.95 ug/L
RT: 8.172 min Scan# 2433
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 75 Resp: 87355

Ion	Ratio	Lower	Upper
75	100		
77	30.6	11.8	51.8
39	56.5	30.2	70.2

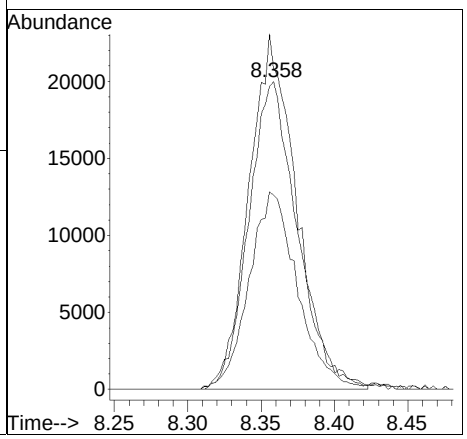


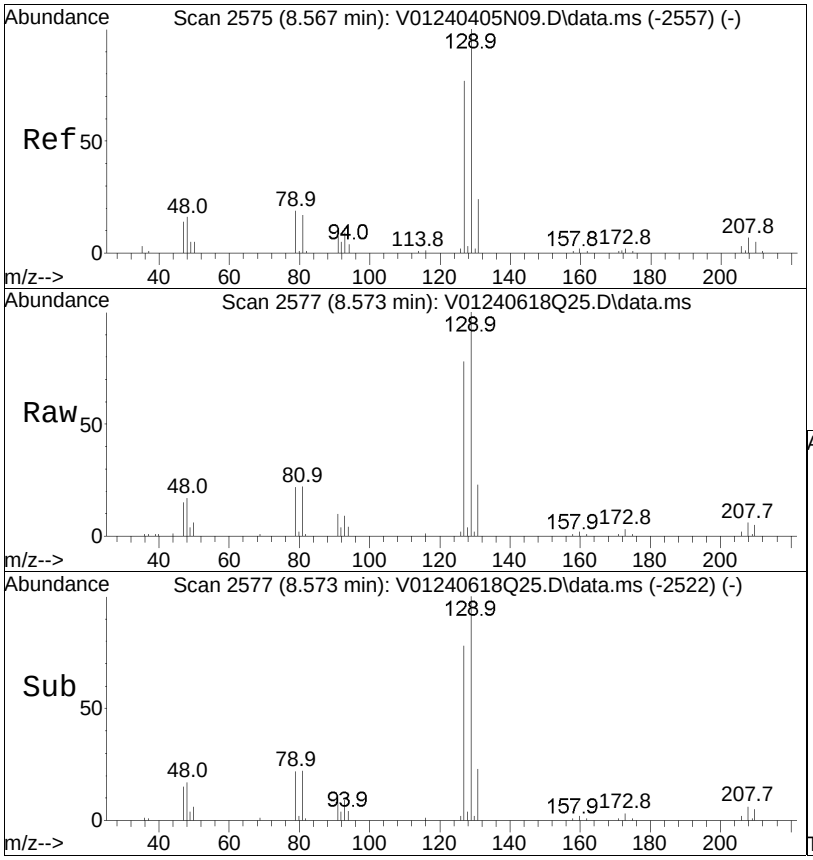


#68
1,1,2-Trichloroethane
Concen: 10.16 ug/L
RT: 8.358 min Scan# 2500
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 83 Resp: 46025

Ion	Ratio	Lower	Upper
83	100		
97	112.7	96.7	136.7
85	64.0	45.3	85.3

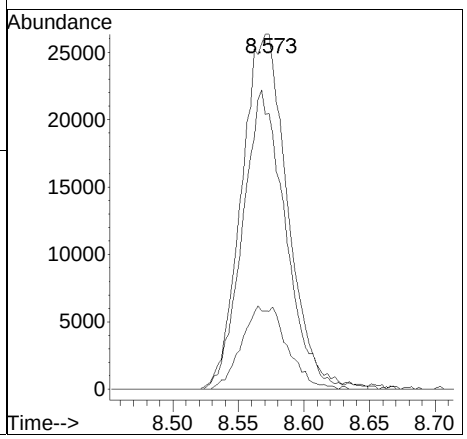


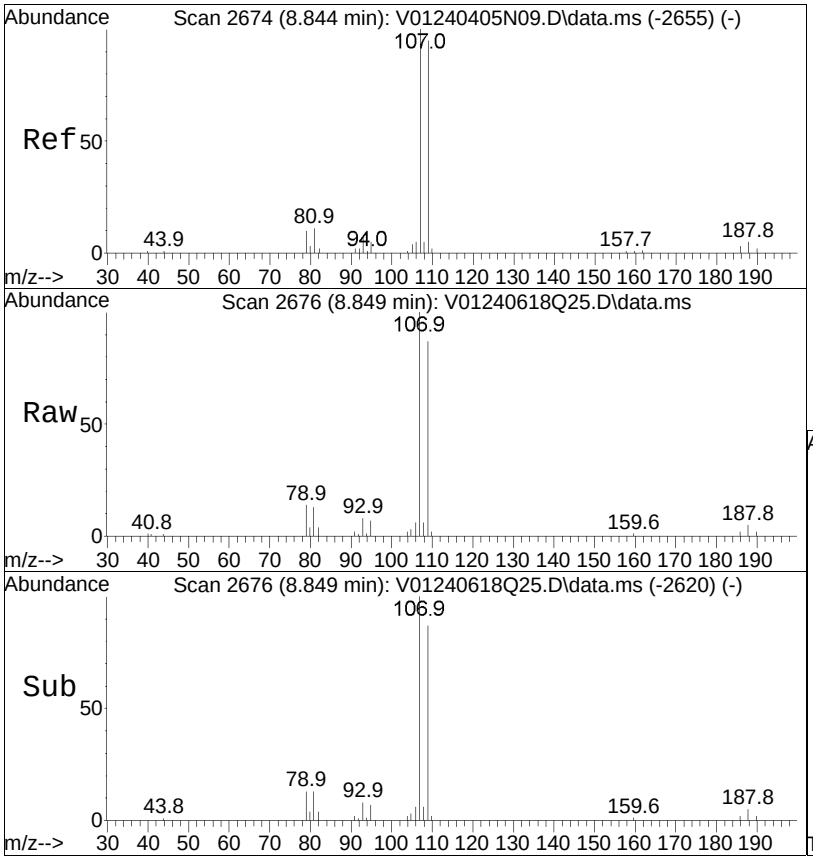


#69
Chlorodibromomethane
Concen: 9.14 ug/L
RT: 8.573 min Scan# 2577
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:129 Resp: 64453

Ion	Ratio	Lower	Upper
129	100		
81	13.9	0.0	37.9
127	78.2	56.6	96.6

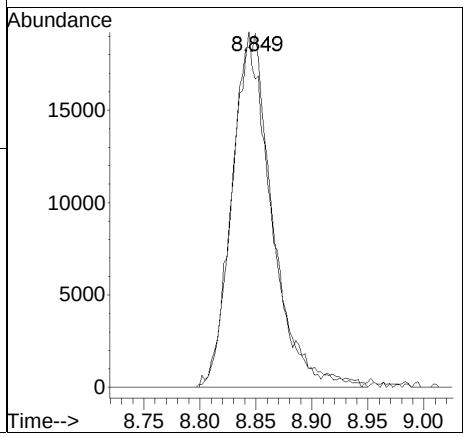


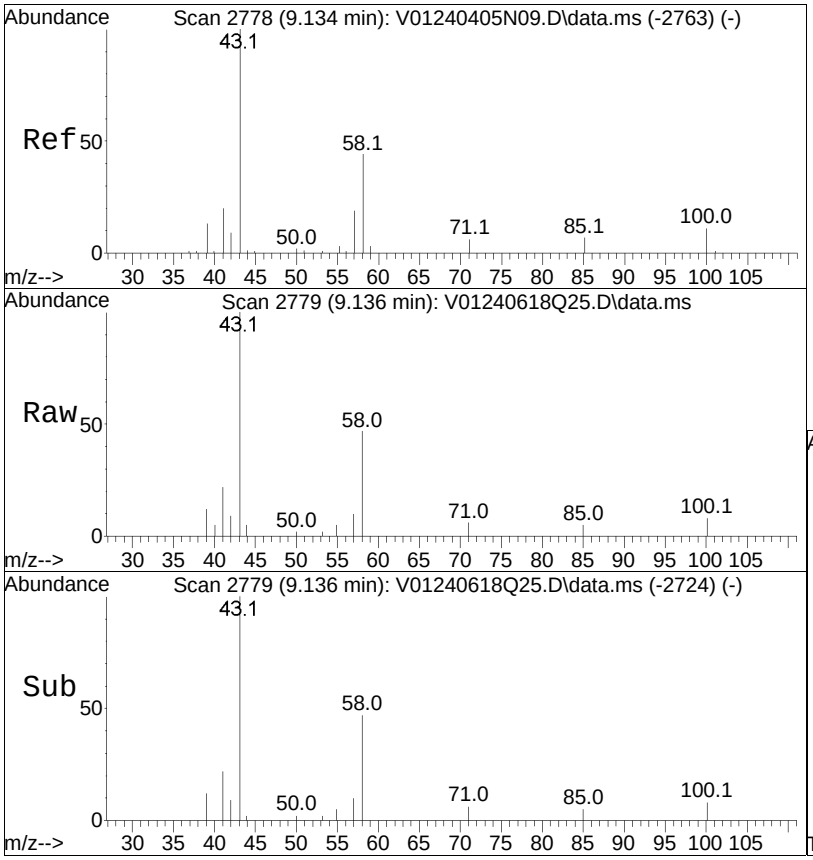


#71
1,2-Dibromoethane
Concen: 9.42 ug/L
RT: 8.849 min Scan# 2676
Delta R.T. 0.005 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:107 Resp: 48451

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4

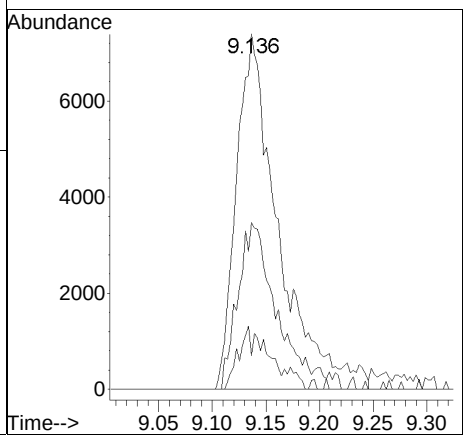


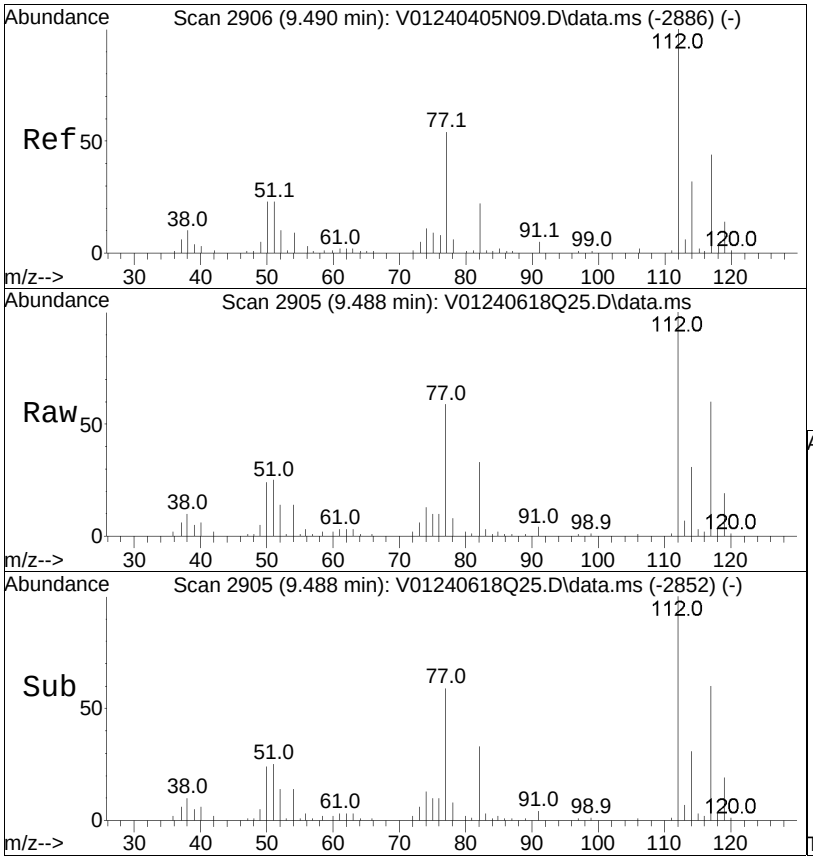


#72
2-Hexanone
Concen: 6.58 ug/L M1
RT: 9.136 min Scan# 2779
Delta R.T. 0.002 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 43 Resp: 20140

Ion	Ratio	Lower	Upper
43	100		
58	41.8	40.8	61.2
57	5.4	14.2	21.4#

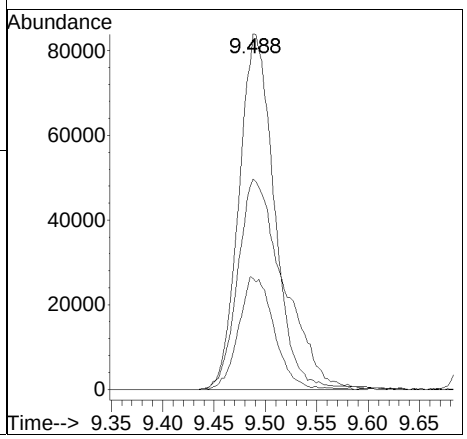


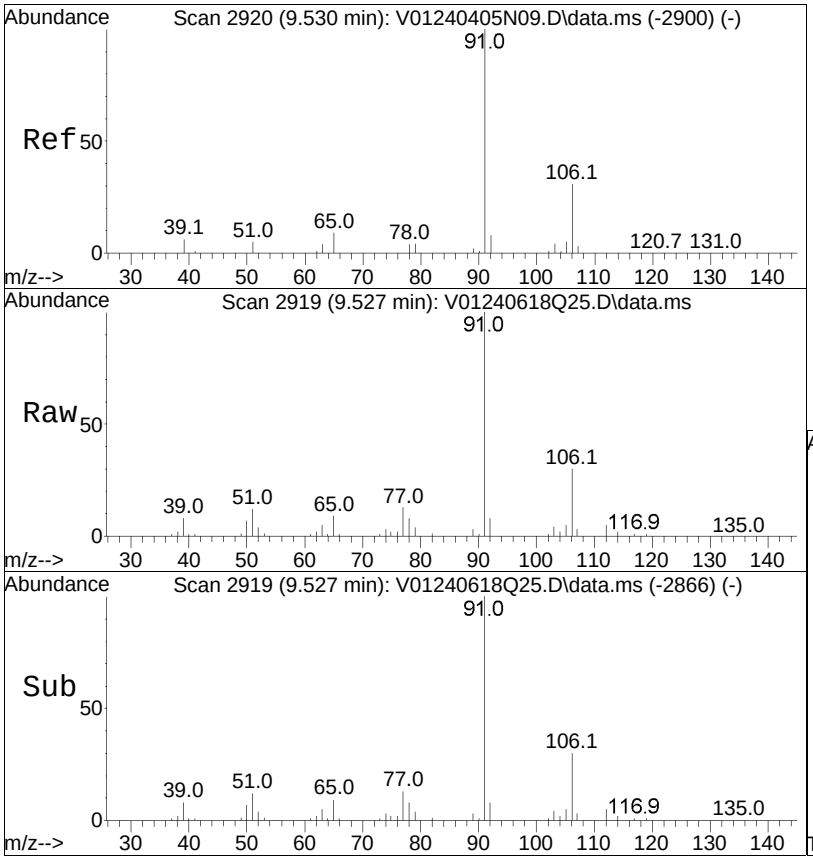


#73
Chlorobenzene
Concen: 10.22 ug/L
RT: 9.488 min Scan# 2905
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:112 Resp: 200431

Ion	Ratio	Lower	Upper
112	100		
77	77.6	59.8	89.6
114	31.8	25.4	38.2

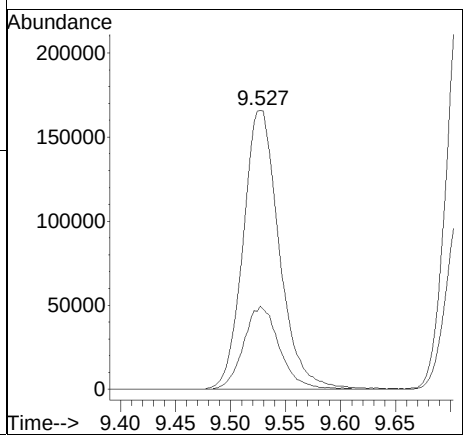


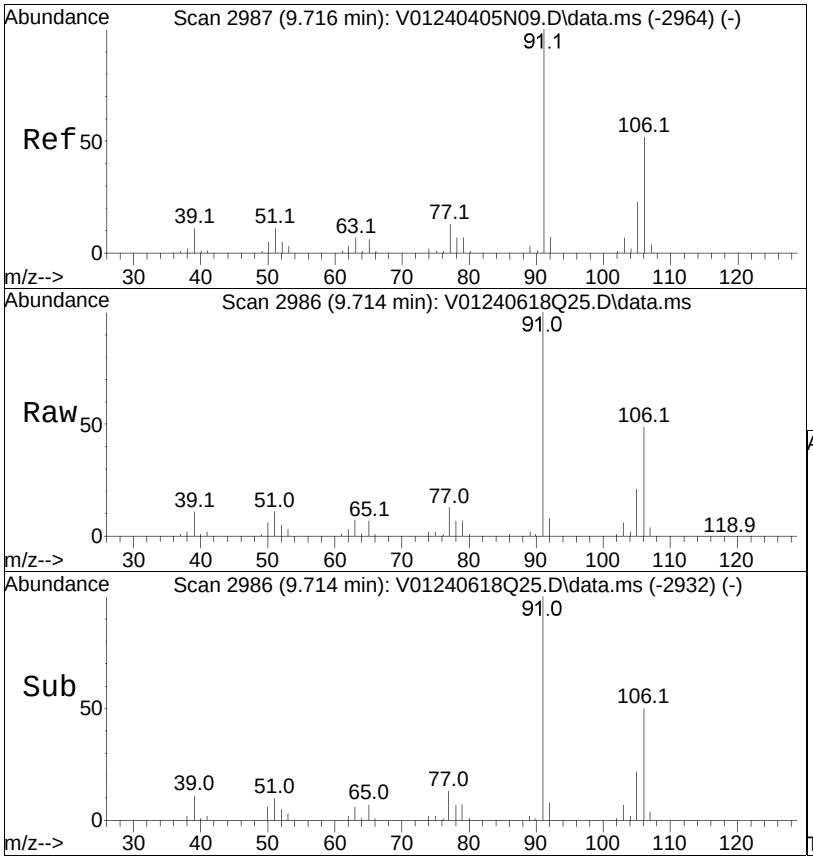


#74
Ethylbenzene
Concen: 10.85 ug/L
RT: 9.527 min Scan# 2919
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 91 Resp: 377138

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.7	37.1

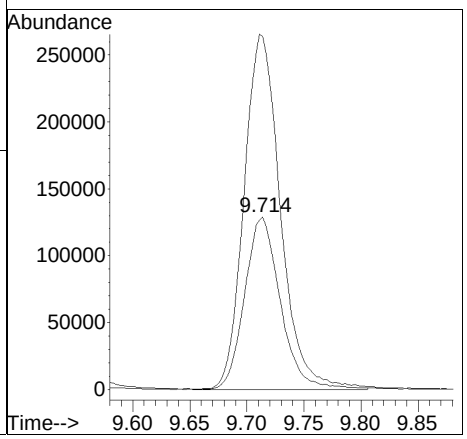


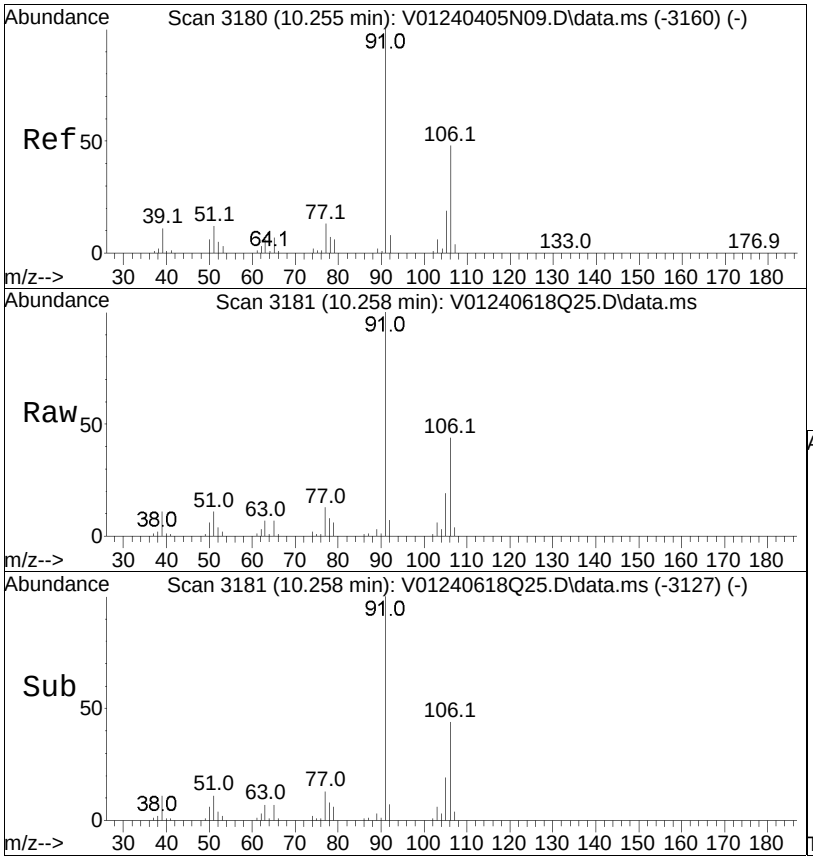


#76
p/m Xylene
Concen: 20.99 ug/L
RT: 9.714 min Scan# 2986
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:106 Resp: 280866

Ion	Ratio	Lower	Upper
106	100		
91	209.4	162.9	244.3

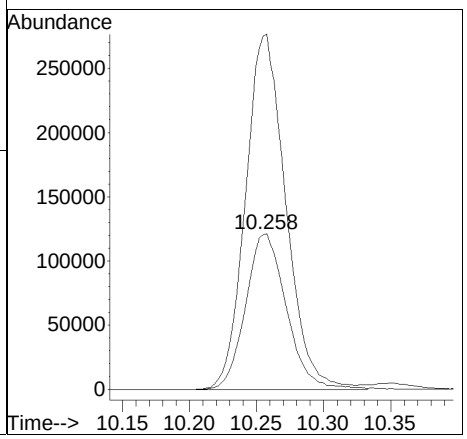


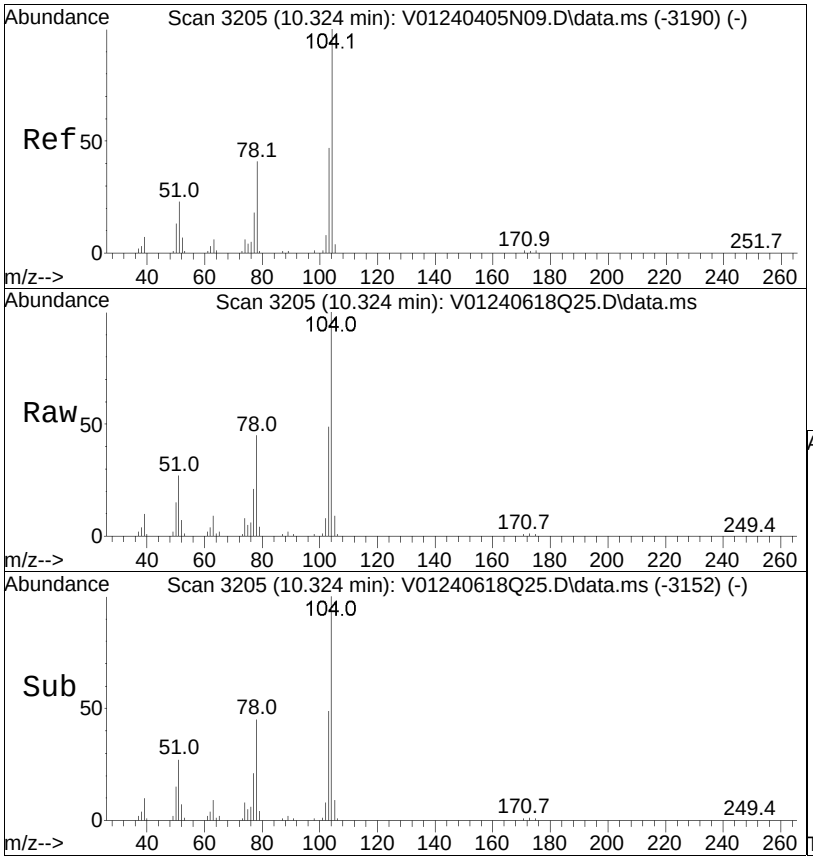


#77
o Xylene
Concen: 19.99 ug/L
RT: 10.258 min Scan# 3181
Delta R.T. 0.001 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:106 Resp: 255861

Ion	Ratio	Lower	Upper
106	100		
91	225.6	171.2	256.8

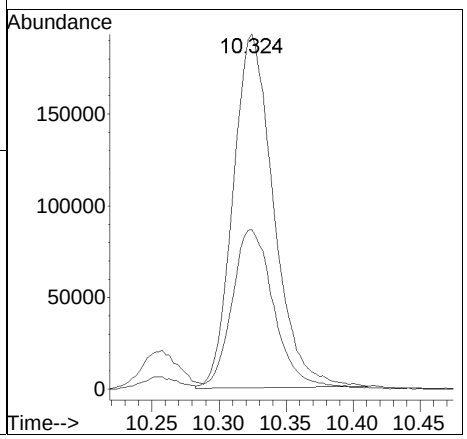


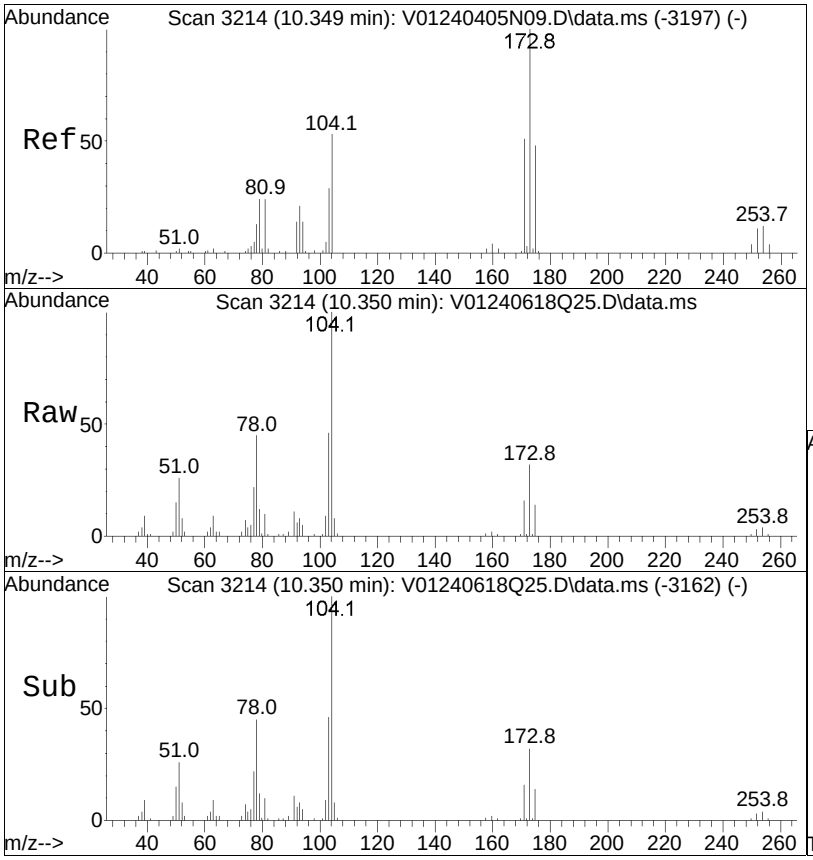


#78
Styrene
Concen: 19.45 ug/L
RT: 10.324 min Scan# 3205
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:104 Resp: 405836

Ion	Ratio	Lower	Upper
104	100		
78	47.0	34.2	51.4

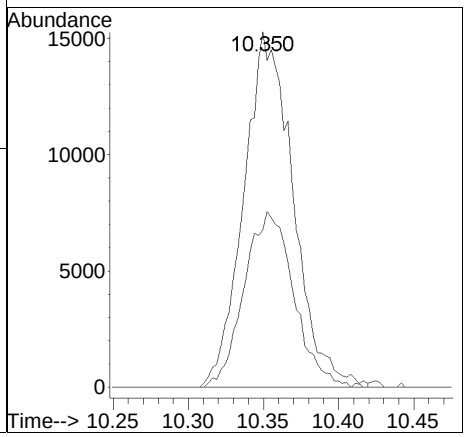


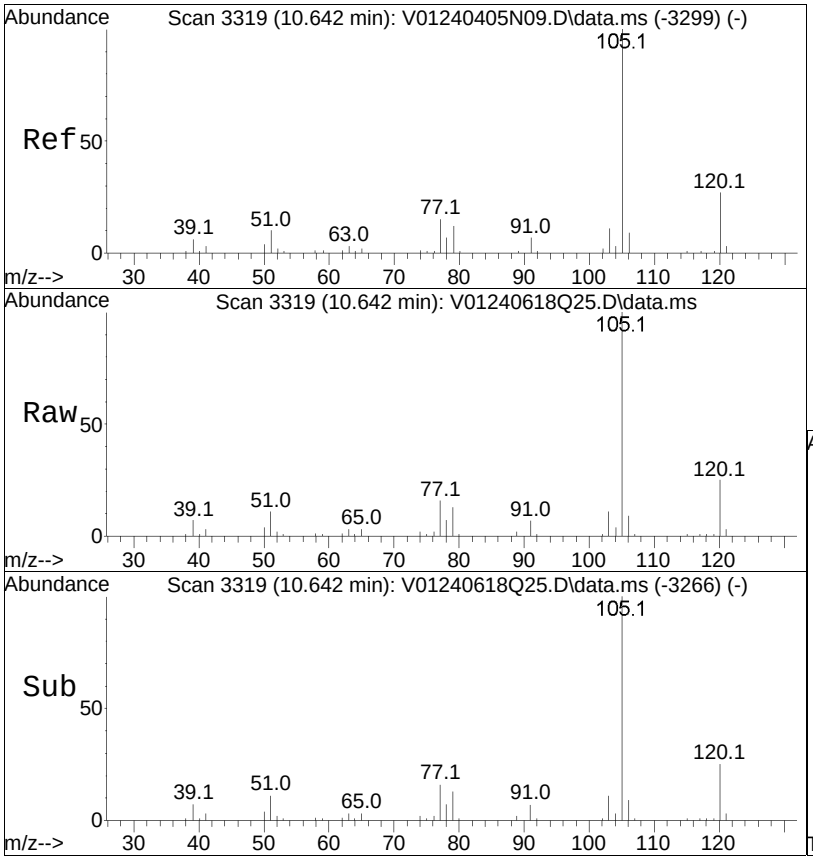


#80
Bromoform
Concen: 8.34 ug/L
RT: 10.350 min Scan# 3214
Delta R.T. -0.005 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:173 Resp: 34932

Ion	Ratio	Lower	Upper
173	100		
175	49.6	28.6	68.6

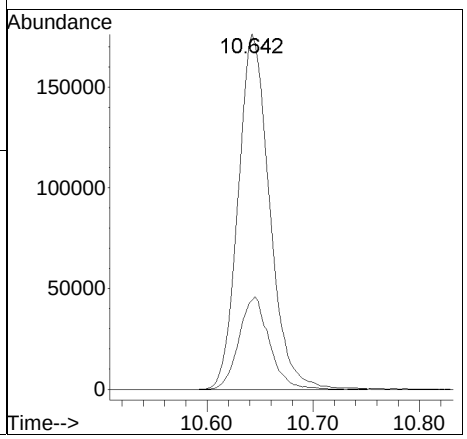


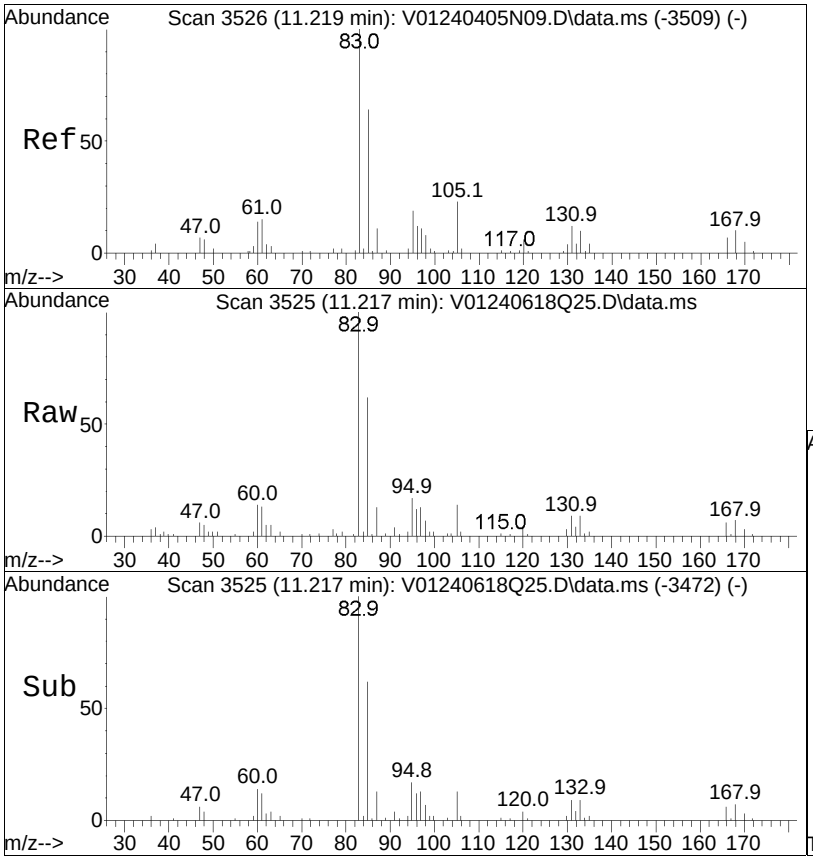


#82
Isopropylbenzene
Concen: 10.90 ug/L
RT: 10.642 min Scan# 3319
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:105 Resp: 363135

Ion	Ratio	Lower	Upper
105	100		
120	25.2	7.3	47.3

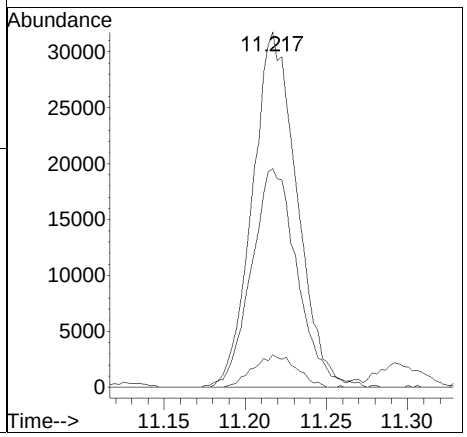


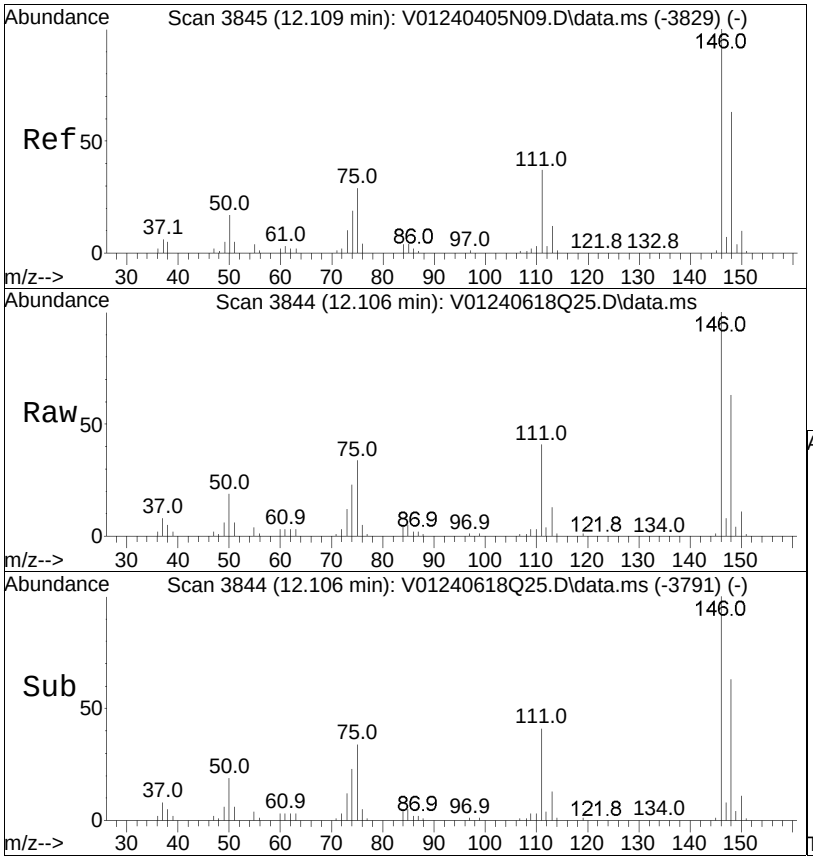


#87
1,1,2,2-Tetrachloroethane
Concen: 11.41 ug/L
RT: 11.217 min Scan# 3525
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion: 83 Resp: 60633

Ion	Ratio	Lower	Upper
83	100		
131	8.9	0.0	30.1
85	63.1	45.8	85.8

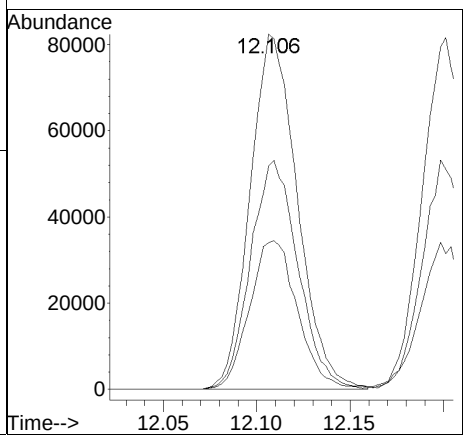


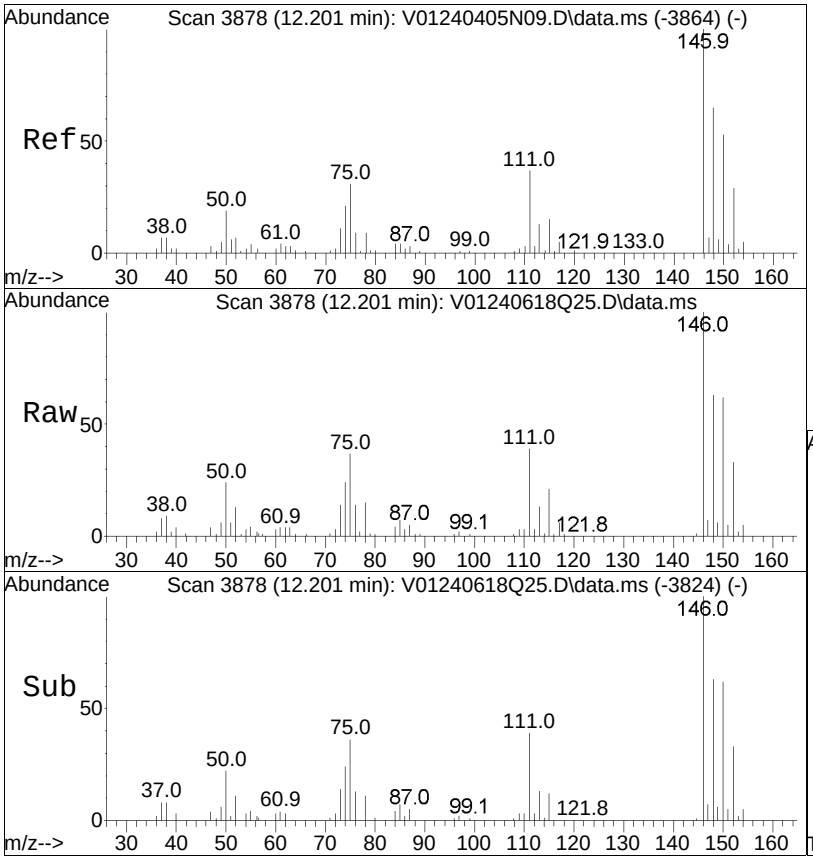


#100
1,3-Dichlorobenzene
Concen: 9.63 ug/L
RT: 12.106 min Scan# 3844
Delta R.T. -0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:146 Resp: 145017

Ion	Ratio	Lower	Upper
146	100		
111	42.5	25.9	53.9
148	64.9	41.5	86.3

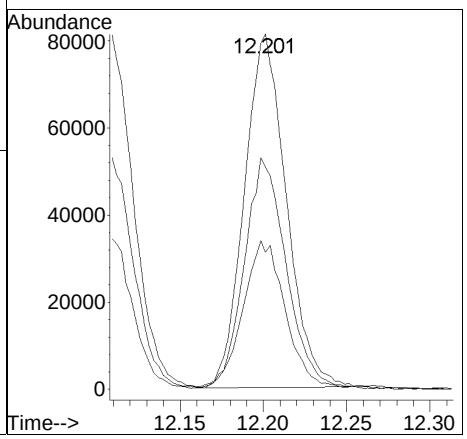


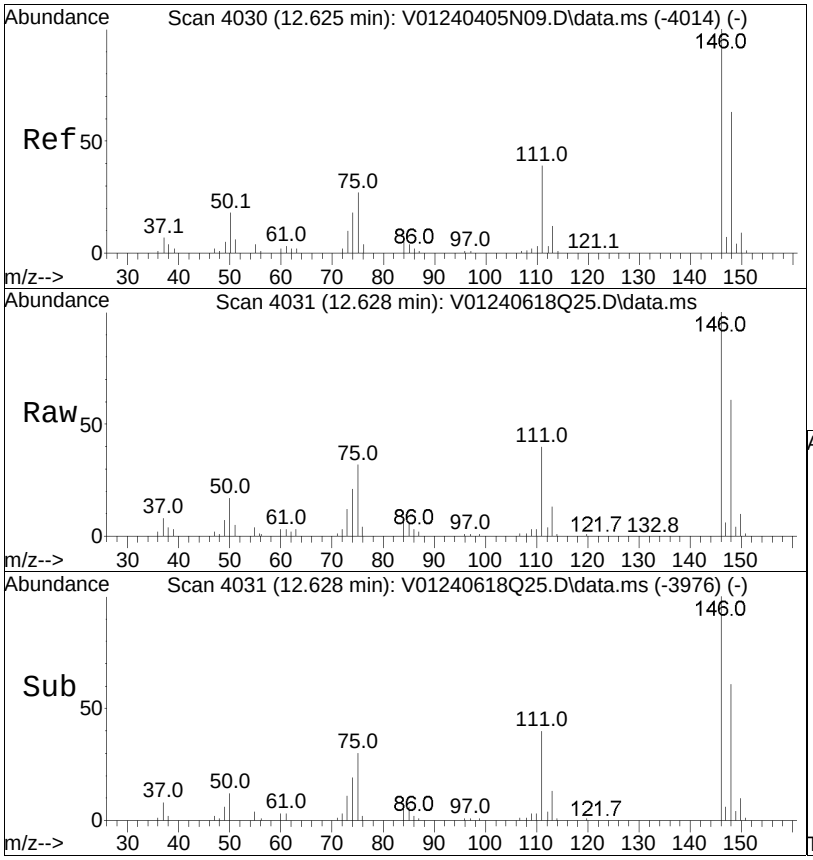


#101
1,4-Dichlorobenzene
Concen: 9.29 ug/L
RT: 12.201 min Scan# 3878
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:146 Resp: 142561

Ion	Ratio	Lower	Upper
146	100		
111	41.9	31.7	47.5
148	66.3	51.5	77.3

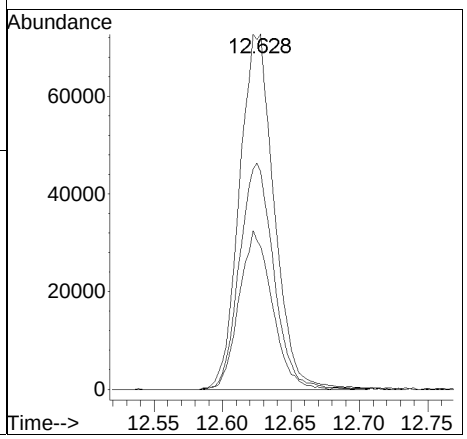


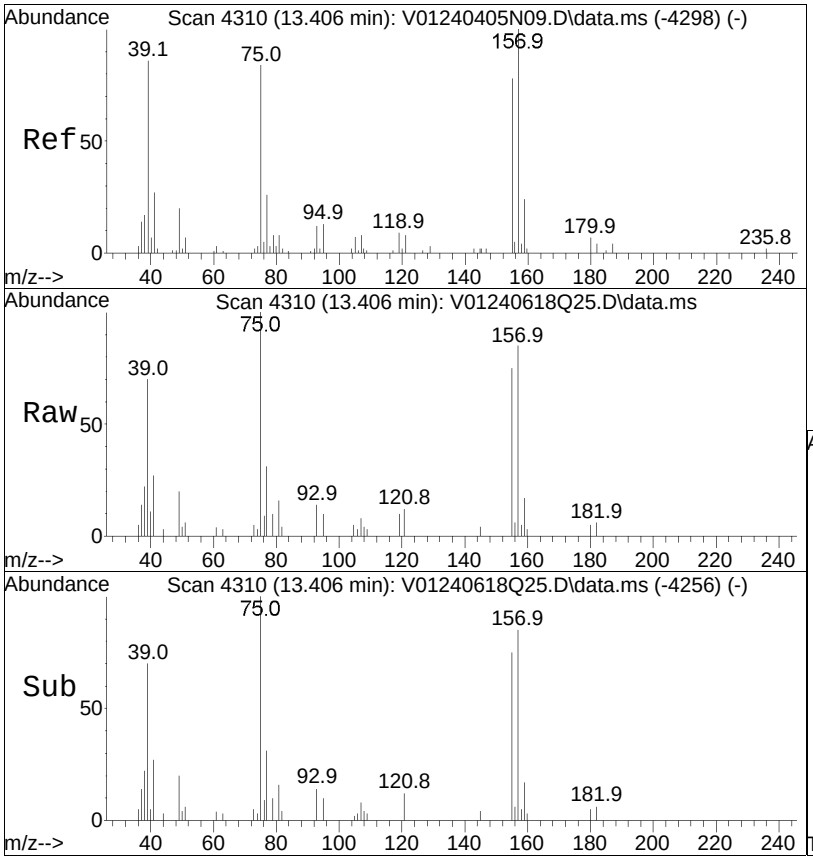


#104
1,2-Dichlorobenzene
Concen: 9.49 ug/L
RT: 12.628 min Scan# 4031
Delta R.T. 0.003 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:146 Resp: 128633

Ion	Ratio	Lower	Upper
146	100		
111	42.6	26.8	55.8
148	62.6	41.6	86.4

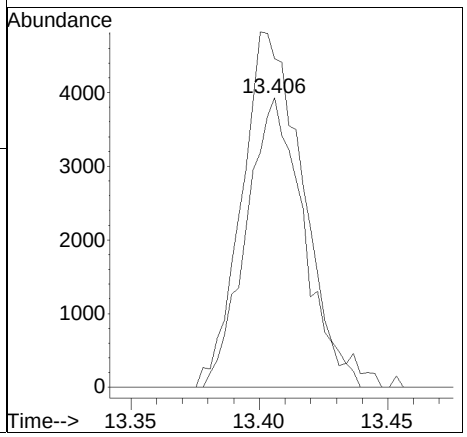


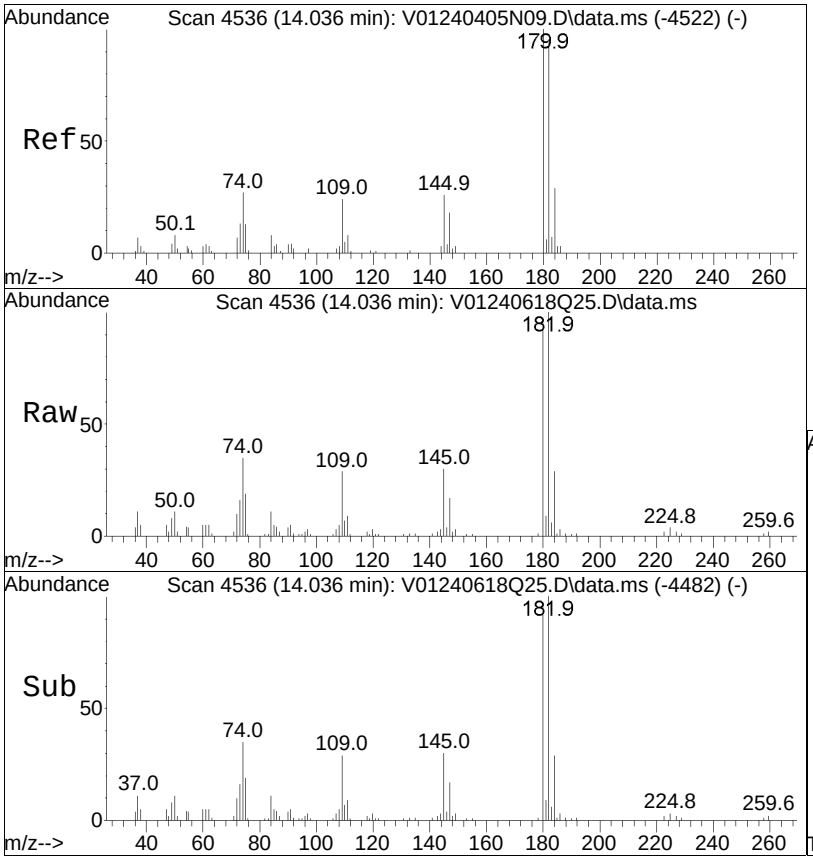


#106
1,2-Dibromo-3-chloropropane
Concen: 7.59 ug/L
RT: 13.406 min Scan# 4310
Delta R.T. -0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:155 Resp: 6091

Ion	Ratio	Lower	Upper
155	100		
157	132.7	101.1	151.7

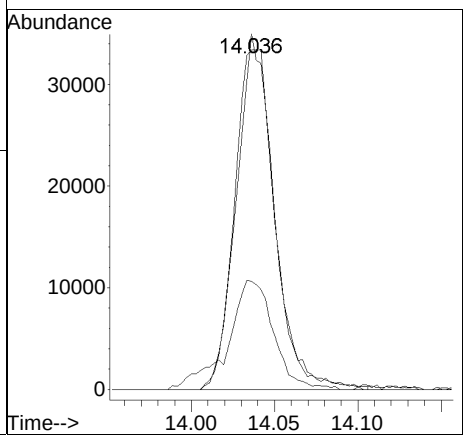


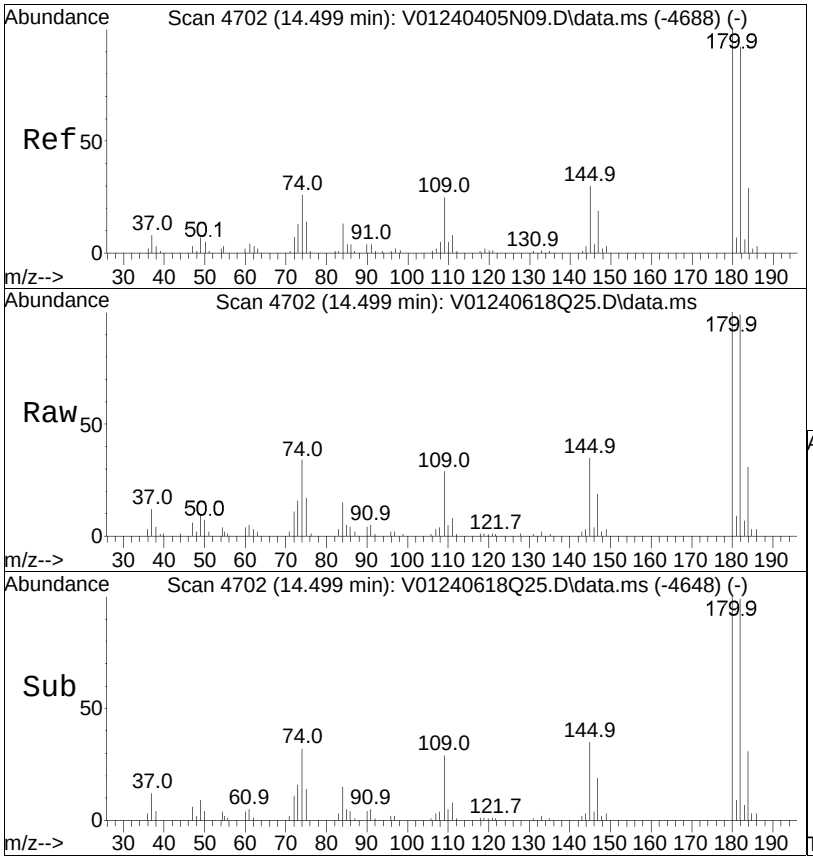


#109
1,2,4-Trichlorobenzene
Concen: 7.09 ug/L
RT: 14.036 min Scan# 4536
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:180 Resp: 56827

Ion	Ratio	Lower	Upper
180	100		
182	96.3	75.8	113.8
145	36.2	26.1	39.1

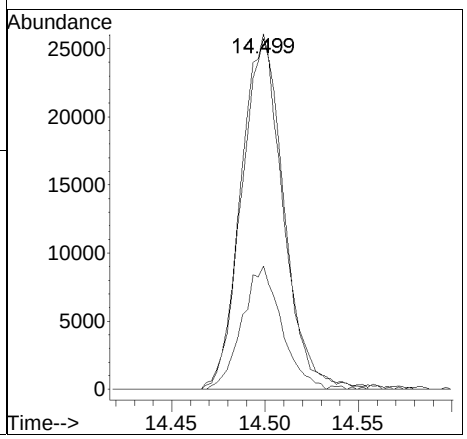




#111
1,2,3-Trichlorobenzene
Concen: 6.70 ug/L
RT: 14.499 min Scan# 4702
Delta R.T. 0.000 min
Lab File: V01240618Q25.D
Acq: 19 Jun 2024 5:28 am

Tgt Ion:180 Resp: 41818

Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.4	113.0
145	31.8	25.0	37.6

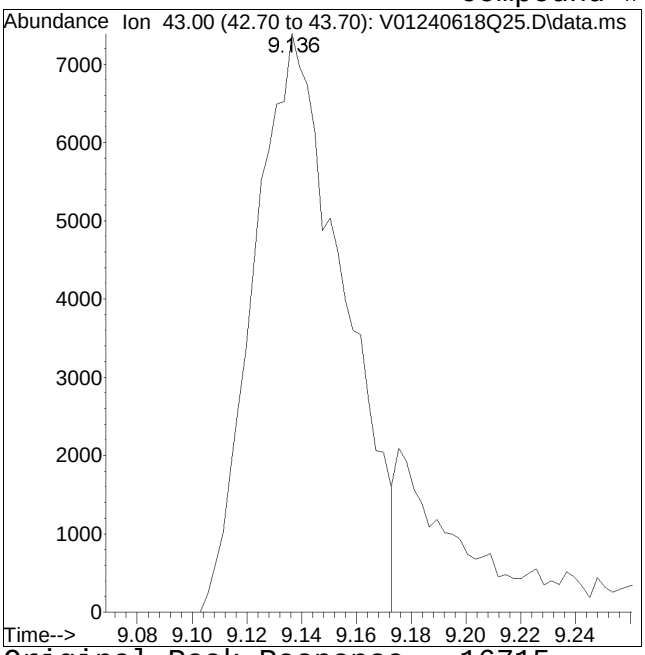


Manual Integration Report

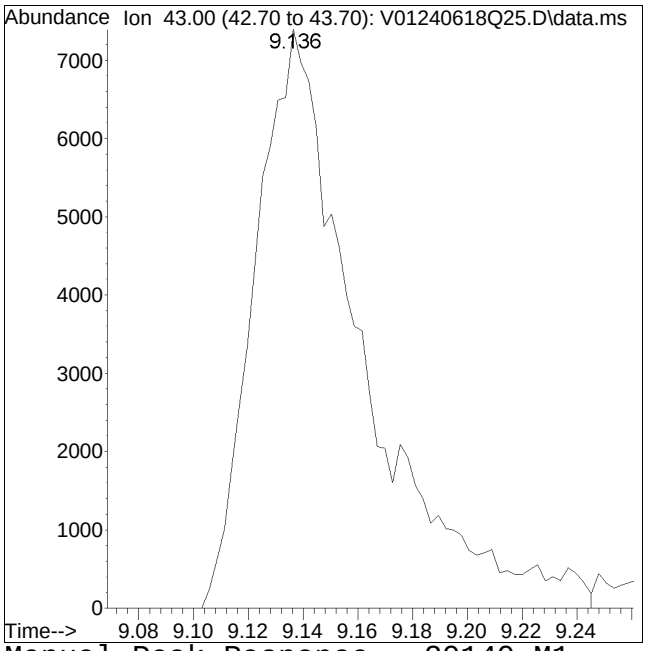
Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q25.D
Date Inj'd : 6/19/2024 5:28 am
Sample : WG1936583-6,31,10,10,,A1

QMethod : V101_240507N_8260.m
Operator : VOA101:MJV
Instrument : VOA 101
Quant Date : 6/19/2024 5:53 am

Compound #72: 2-Hexanone



Original Peak Response = 16715



Manual Peak Response = 20140 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q26.D
Acq On : 19 Jun 2024 5:54 am
Operator : VOA101:MJV
Sample : WG1936583-7,31,10,10,,A2
Misc : WG1936583,ICAL21103
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 06:55:27 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.949	96	322842	10.000	ug/L	0.00
Standard Area 1 = 321325			Recovery = 100.47%			
59) Chlorobenzene-d5	9.468	117	238919	10.000	ug/L	0.00
Standard Area 1 = 238933			Recovery = 99.99%			
79) 1,4-Dichlorobenzene-d4	12.184	152	132162	10.000	ug/L	0.00
Standard Area 1 = 136520			Recovery = 96.81%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.151	113	88829	10.219	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.19%			
43) 1,2-Dichloroethane-d4	5.667	65	103010	10.338	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.38%			
60) Toluene-d8	7.630	98	316480	10.156	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.56%			
83) 4-Bromofluorobenzene	10.974	95	119469	10.435	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.35%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.643	85	97344	10.048	ug/L	99
3) Chloromethane	1.833	50	86567	9.122	ug/L	98
4) Vinyl chloride	1.903	62	89625	11.945	ug/L	98
5) Bromomethane	2.204	94	23349	4.728	ug/L	99
6) Chloroethane	2.321	64	52068	11.411	ug/L	99
7) Trichlorofluoromethane	2.452	101	130624	10.936	ug/L	98
10) 1,1-Dichloroethene	2.932	96	63789	10.508	ug/L	92
11) Carbon disulfide	2.962	76	195479	10.692	ug/L	99
12) Freon-113	2.962	101	71764	11.159	ug/L	84
15) Methylene chloride	3.475	84	78035	9.783	ug/L	98
17) Acetone	3.523	43	14635	7.993	ug/L #	73
18) trans-1,2-Dichloroethene	3.629	96	77532	10.606	ug/L	97
19) Methyl acetate	3.640	43	27431	8.485	ug/L	97
20) Methyl tert-butyl ether	3.729	73	144091	8.321	ug/L #	86
23) 1,1-Dichloroethane	4.200	63	157167	11.266	ug/L	99
28) cis-1,2-Dichloroethene	4.714	96	82907	10.243	ug/L	97
30) Bromochloromethane	4.906	128	35534	9.913	ug/L	97
31) Cyclohexane	4.906	56	134513	11.116	ug/L	93
32) Chloroform	4.976	83	157110	11.451	ug/L	99
34) Carbon tetrachloride	5.110	117	131048	11.946	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q26.D
Acq On : 19 Jun 2024 5:54 am
Operator : VOA101:MJV
Sample : WG1936583-7,31,10,10,,A2
Misc : WG1936583,ICAL21103
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 06:55:27 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2024\240618Q\V01240618Q01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.171	97	149856	12.198	ug/L		98
39) 2-Butanone	5.271	43	15980	8.593	ug/L		97
41) Benzene	5.533	78	320880	10.877	ug/L		99
44) 1,2-Dichloroethane	5.743	62	98254	10.242	ug/L		99
47) Methyl cyclohexane	6.116	83	135843	11.251	ug/L		98
48) Trichloroethene	6.130	95	87919	10.135	ug/L		97
51) 1,2-Dichloropropane	6.668	63	82256	10.865	ug/L		97
54) Bromodichloromethane	6.744	83	109487	10.179	ug/L		97
58) cis-1,3-Dichloropropene	7.430	75	100983	8.595	ug/L		93
61) Toluene	7.689	92	198780	10.899	ug/L		100
62) 4-Methyl-2-pentanone	8.121	58	11668	7.020	ug/L		86
63) Tetrachloroethene	8.138	166	88944	10.580	ug/L		92
65) trans-1,3-Dichloropropene	8.169	75	87767	8.790	ug/L		92
68) 1,1,2-Trichloroethane	8.355	83	46933	10.125	ug/L		98
69) Chlorodibromomethane	8.570	129	66325	9.189	ug/L		95
71) 1,2-Dibromoethane	8.846	107	48740	9.254	ug/L		99
72) 2-Hexanone	9.136	43	19809	6.327	ug/L	#	85
73) Chlorobenzene	9.488	112	204253	10.177	ug/L		97
74) Ethylbenzene	9.524	91	384993	10.824	ug/L		98
76) p/m Xylene	9.711	106	289863	21.163	ug/L		97
77) o Xylene	10.255	106	266716	20.357	ug/L		95
78) Styrene	10.322	104	423084	19.811	ug/L		96
80) Bromoform	10.355	173	35323	8.382	ug/L		100
82) Isopropylbenzene	10.642	105	372329	11.115	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.217	83	61976	11.592	ug/L		98
100) 1,3-Dichlorobenzene	12.106	146	150403	9.925	ug/L		98
101) 1,4-Dichlorobenzene	12.198	146	151373	9.802	ug/L		99
104) 1,2-Dichlorobenzene	12.625	146	132513	9.718	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.400	155	6371	7.887	ug/L		100
109) 1,2,4-Trichlorobenzene	14.036	180	61131	7.586	ug/L		97
111) 1,2,3-Trichlorobenzene	14.496	180	46208	7.363	ug/L		98

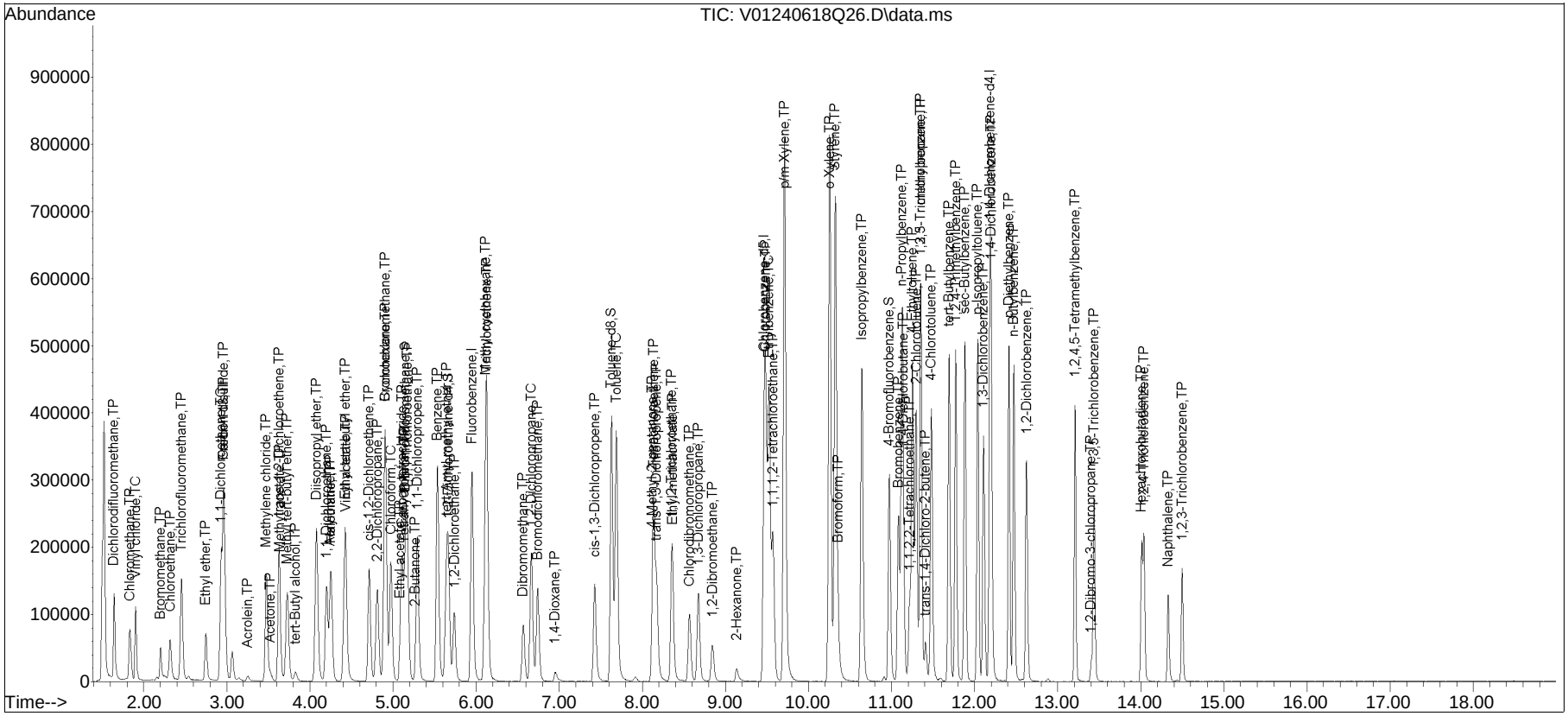
(#) = qualifier out of range (m) = manual integration (+) = signals summed

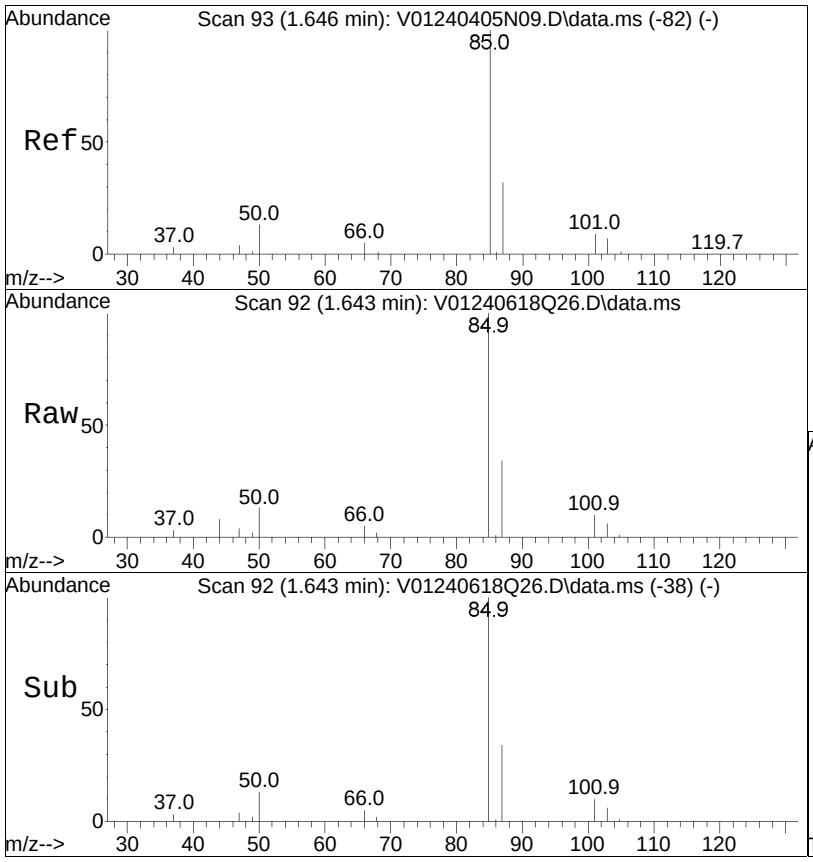
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2024\240618Q\
Data File : V01240618Q26.D
Acq On : 19 Jun 2024 5:54 am
Operator : VOA101:MJV
Sample : WG1936583-7,31,10,10,,A2
Misc : WG1936583,ICAL21103
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 06:55:27 2024
Quant Method : K:\VOA101\2024\240618Q\V101_240507N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 08 10:48:58 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

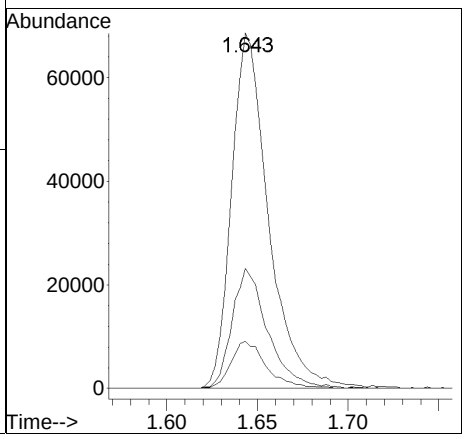


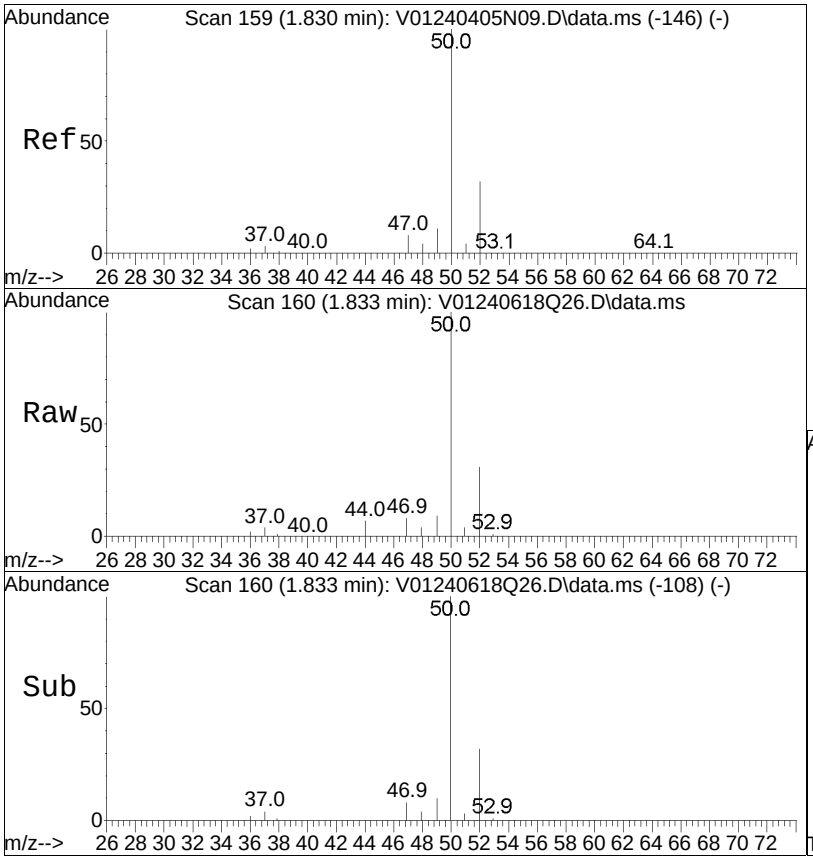


#2
Dichlorodifluoromethane
Concen: 10.05 ug/L
RT: 1.643 min Scan# 92
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 85 Resp: 97344

Ion	Ratio	Lower	Upper
85	100		
87	32.6	20.9	43.5
50	12.8	9.1	18.9

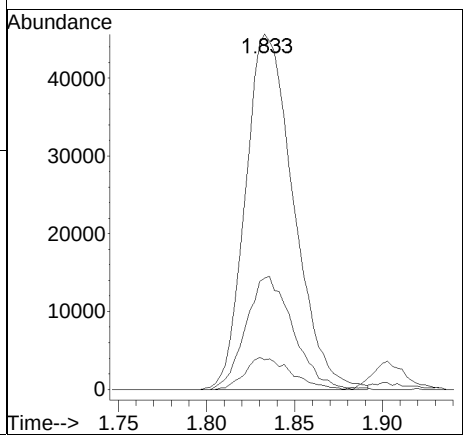


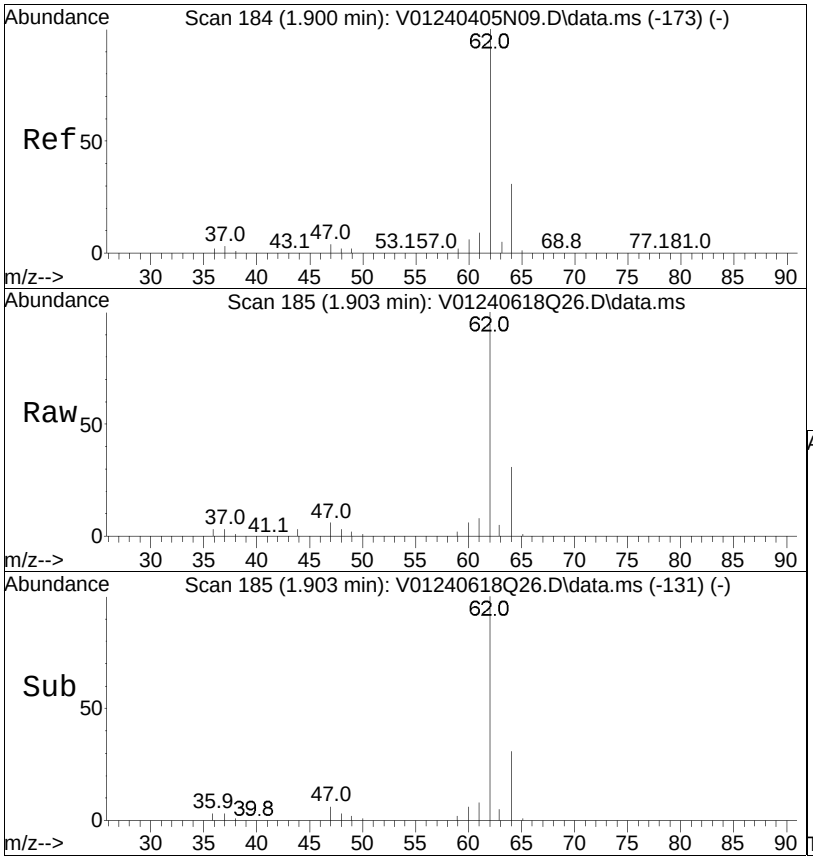


#3
Chloromethane
Concen: 9.12 ug/L
RT: 1.833 min Scan# 160
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 50 Resp: 86567

Ion	Ratio	Lower	Upper
50	100		
52	31.4	12.8	52.8
47	8.7	0.0	28.3

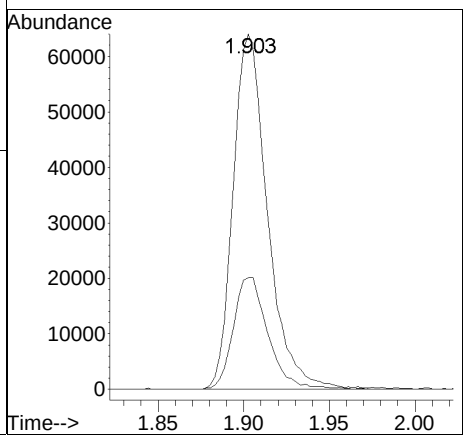


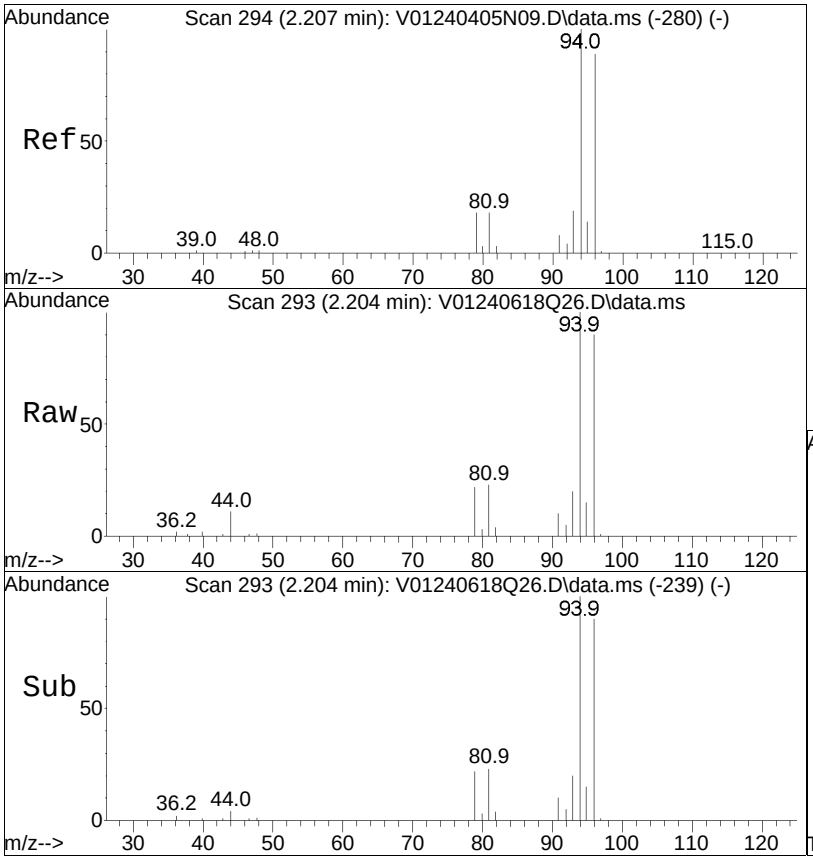


#4
Vinyl chloride
Concen: 11.95 ug/L
RT: 1.903 min Scan# 185
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 62 Resp: 89625

Ion	Ratio	Lower	Upper
62	100		
64	31.8	10.8	50.8

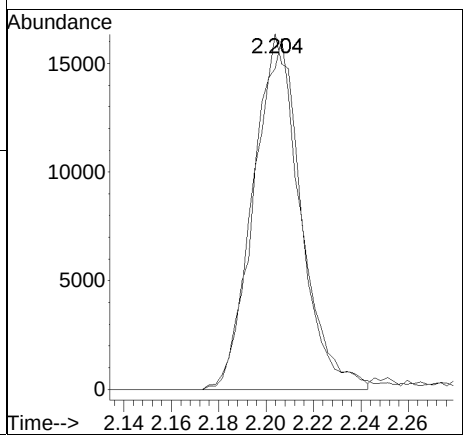


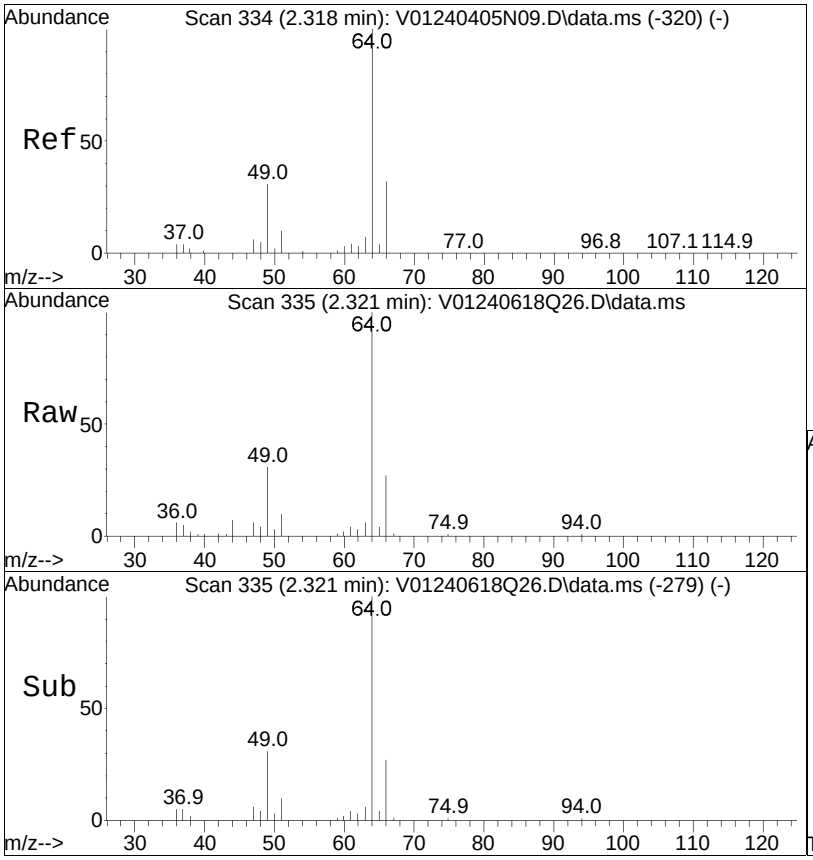


#5
Bromomethane
Concen: 4.73 ug/L
RT: 2.204 min Scan# 293
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 94 Resp: 23349

Ion	Ratio	Lower	Upper
94	100		
96	95.0	73.6	113.6

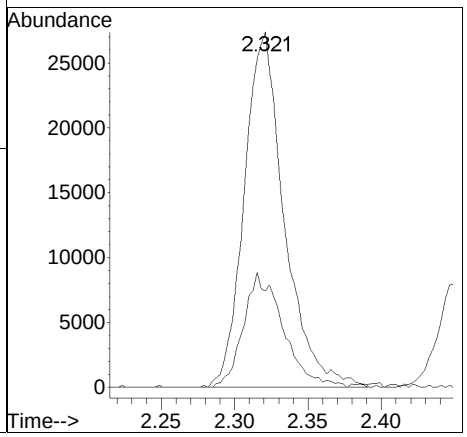


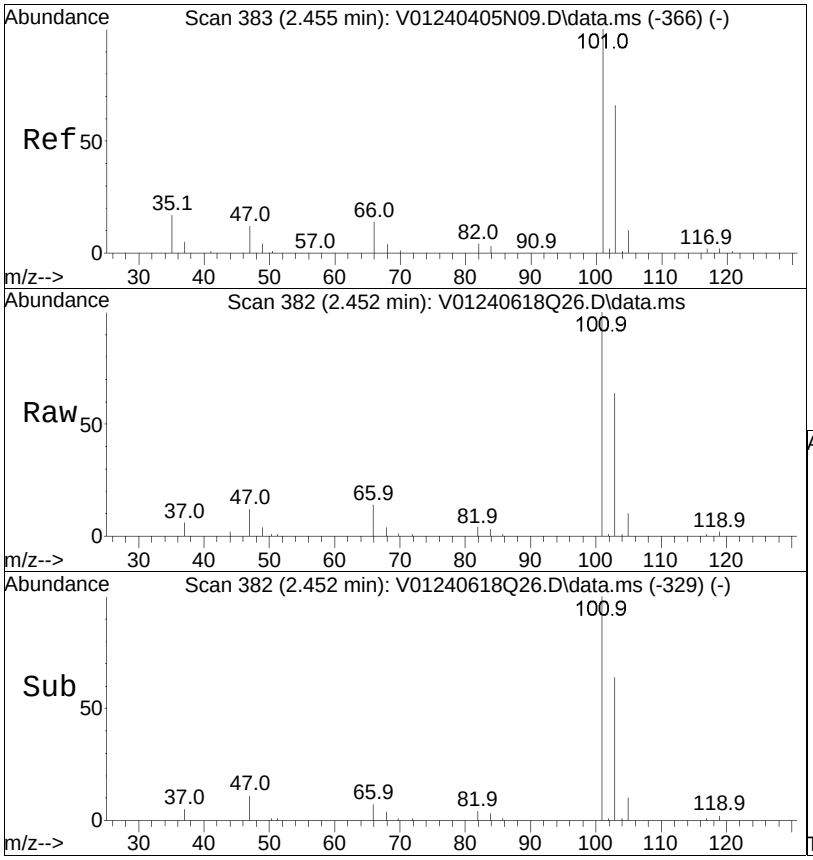


#6
Chloroethane
Concen: 11.41 ug/L
RT: 2.321 min Scan# 335
Delta R.T. 0.006 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 64 Resp: 52068

Ion	Ratio	Lower	Upper
64	100		
66	32.0	12.7	52.7

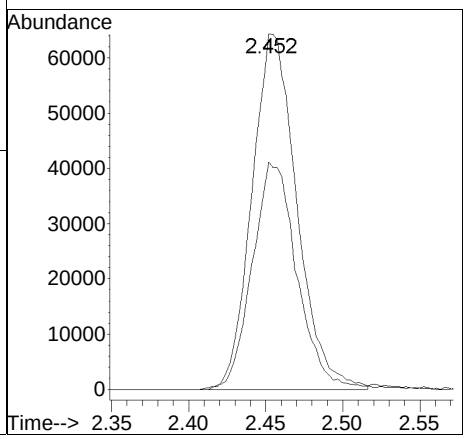


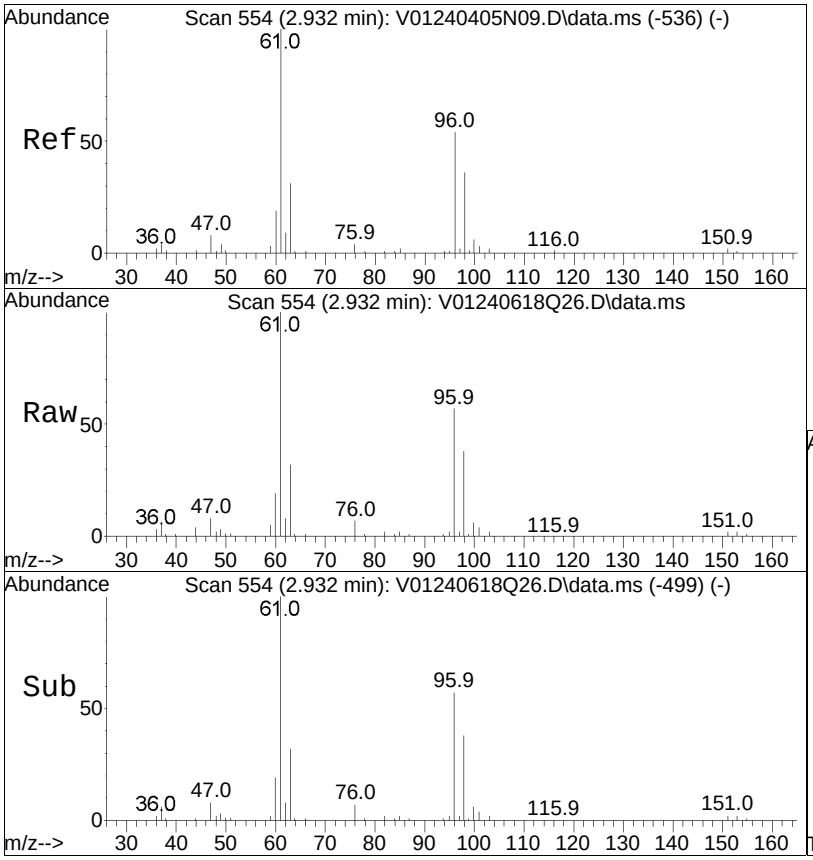


#7
Trichlorofluoromethane
Concen: 10.94 ug/L
RT: 2.452 min Scan# 382
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:101 Resp: 130624

Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.3	78.5

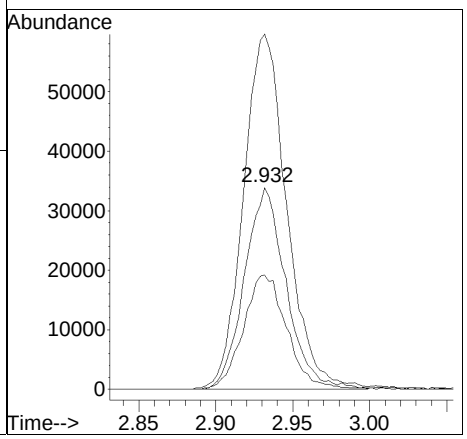


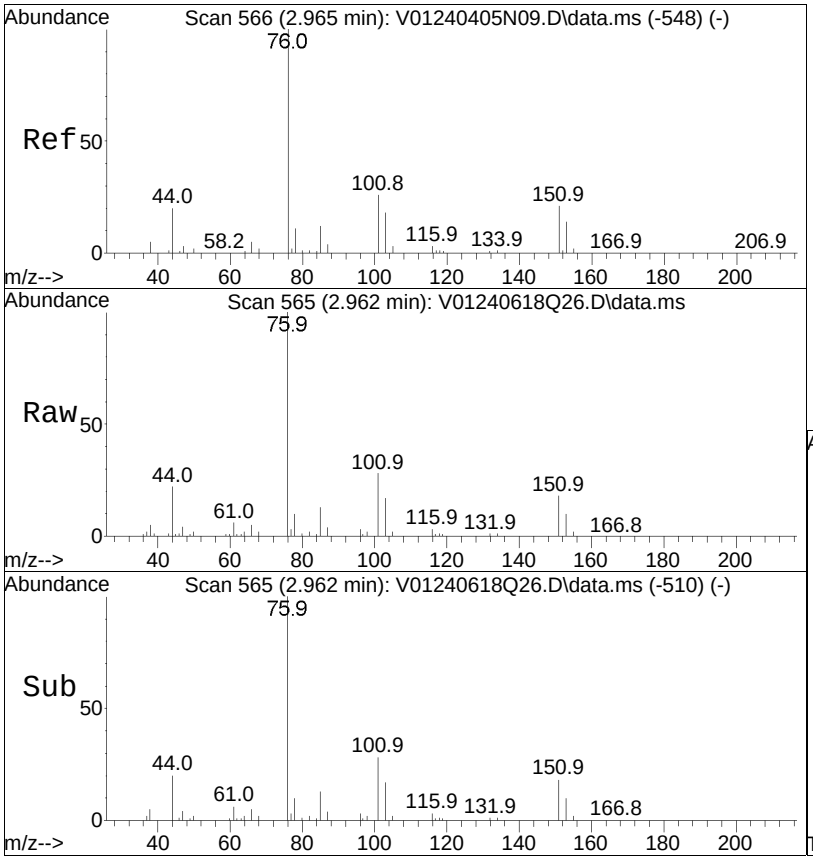


#10
1,1-Dichloroethene
Concen: 10.51 ug/L
RT: 2.932 min Scan# 554
Delta R.T. 0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 96 Resp: 63789

Ion	Ratio	Lower	Upper
96	100		
61	183.2	136.8	205.2
63	59.3	43.6	65.4

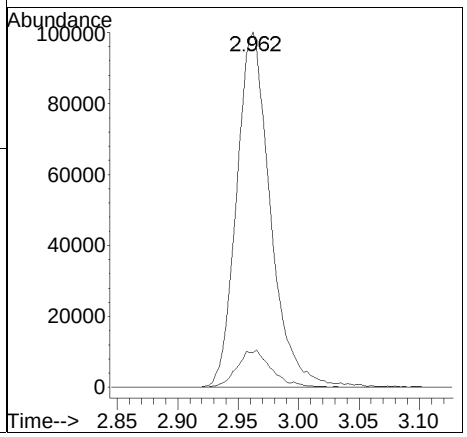


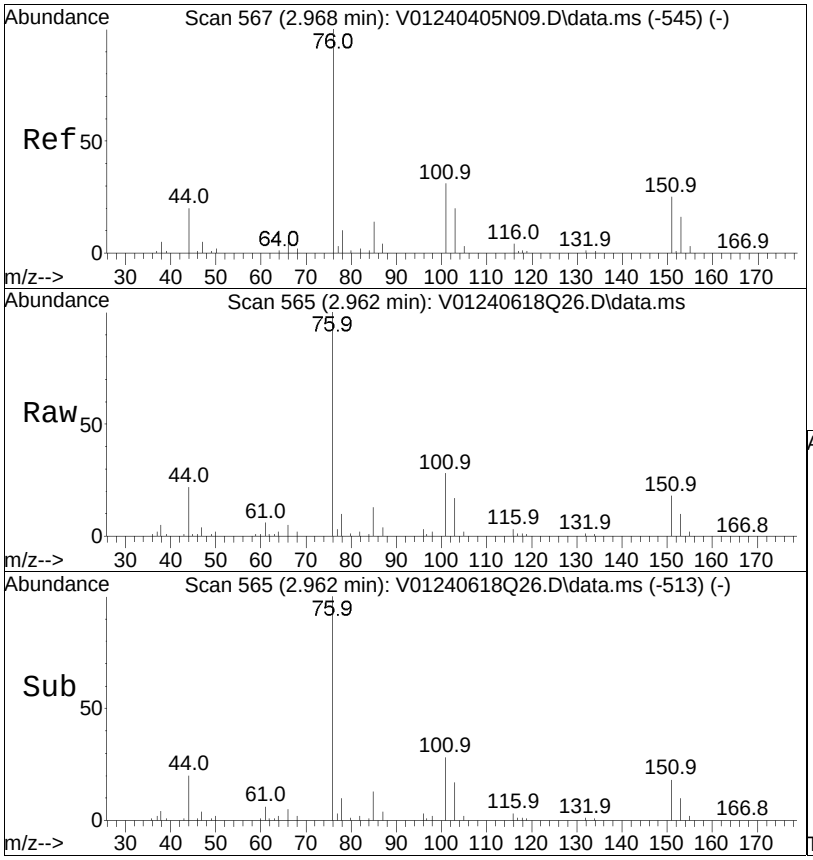


#11
Carbon disulfide
Concen: 10.69 ug/L
RT: 2.962 min Scan# 565
Delta R.T. 0.002 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 76 Resp: 195479

Ion	Ratio	Lower	Upper
76	100		
78	10.8	6.6	13.8

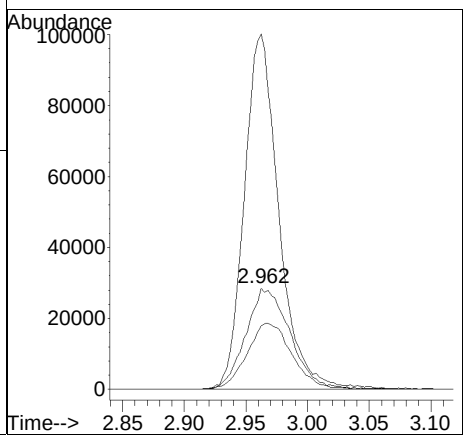


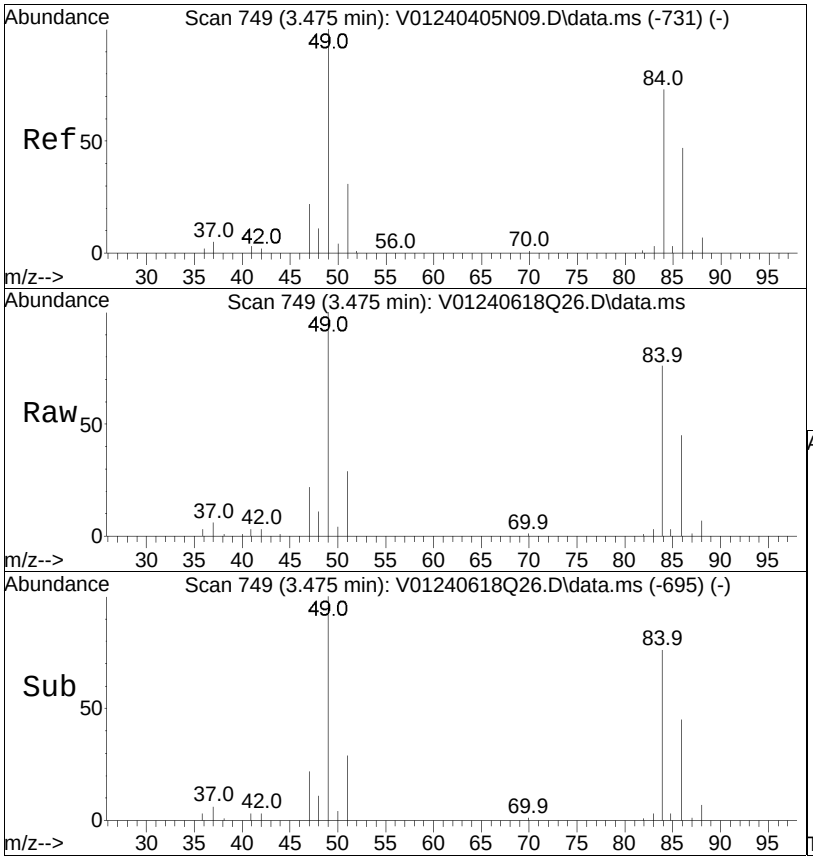


#12
Freon-113
Concen: 11.16 ug/L
RT: 2.962 min Scan# 565
Delta R.T. -0.006 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:101 Resp: 71764

Ion	Ratio	Lower	Upper
101	100		
151	66.4	61.2	91.8
76	272.4	194.8	292.2

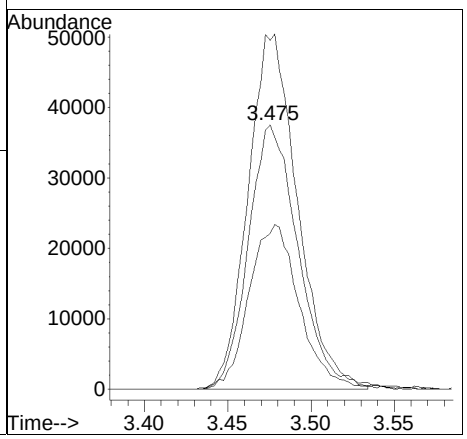


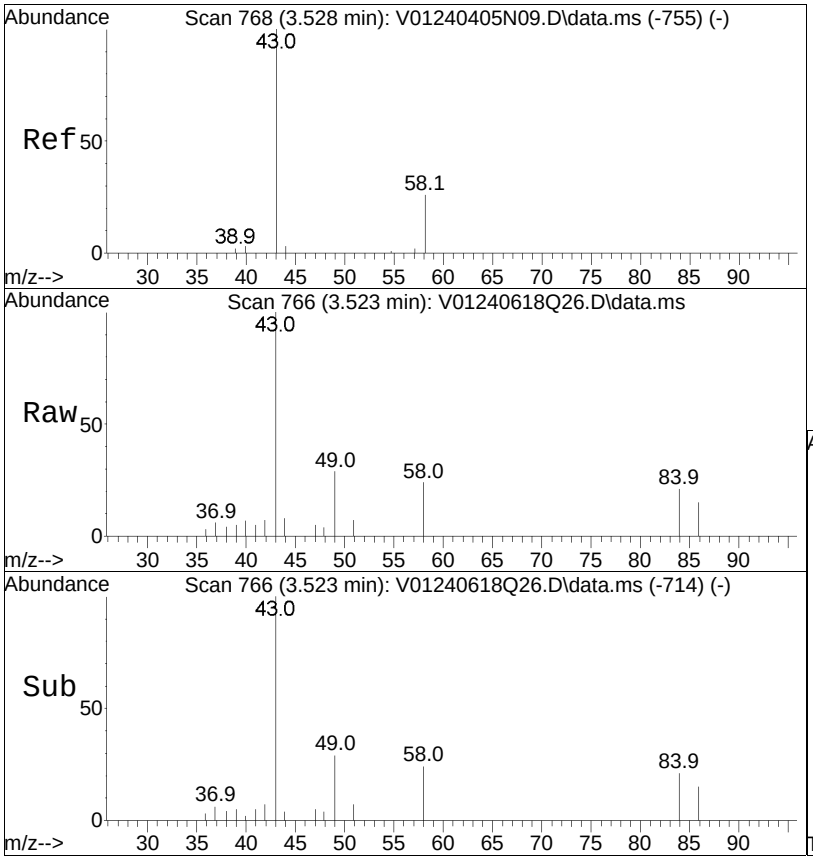


#15
Methylene chloride
Concen: 9.78 ug/L
RT: 3.475 min Scan# 749
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 84 Resp: 78035

Ion	Ratio	Lower	Upper
84	100		
86	63.2	41.7	86.7
49	134.8	89.1	185.1

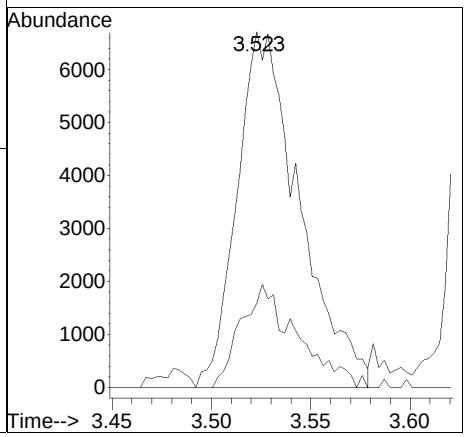


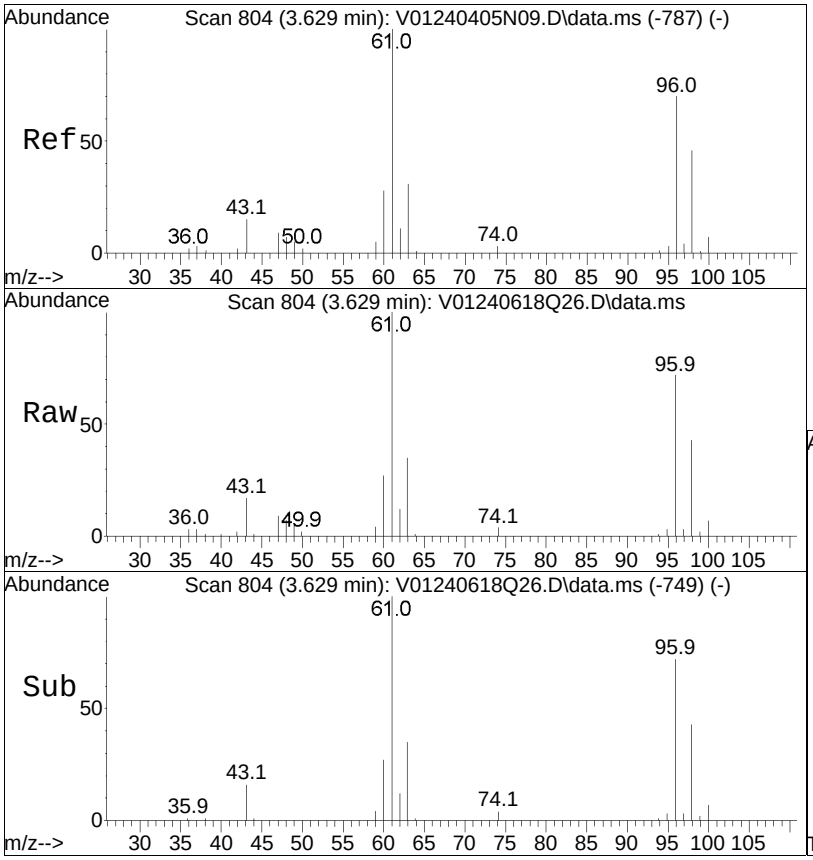


#17
Acetone
Concen: 7.99 ug/L
RT: 3.523 min Scan# 766
Delta R.T. -0.005 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 43 Resp: 14635

Ion	Ratio	Lower	Upper
43	100		
58	17.4	25.9	38.9#

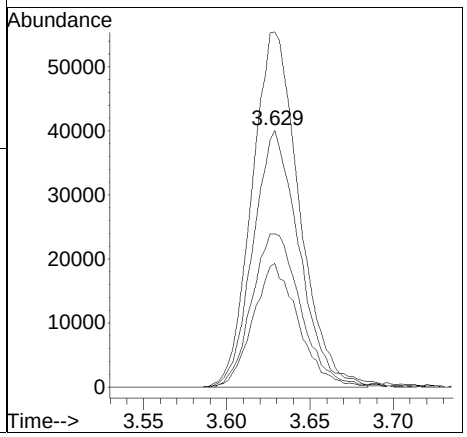


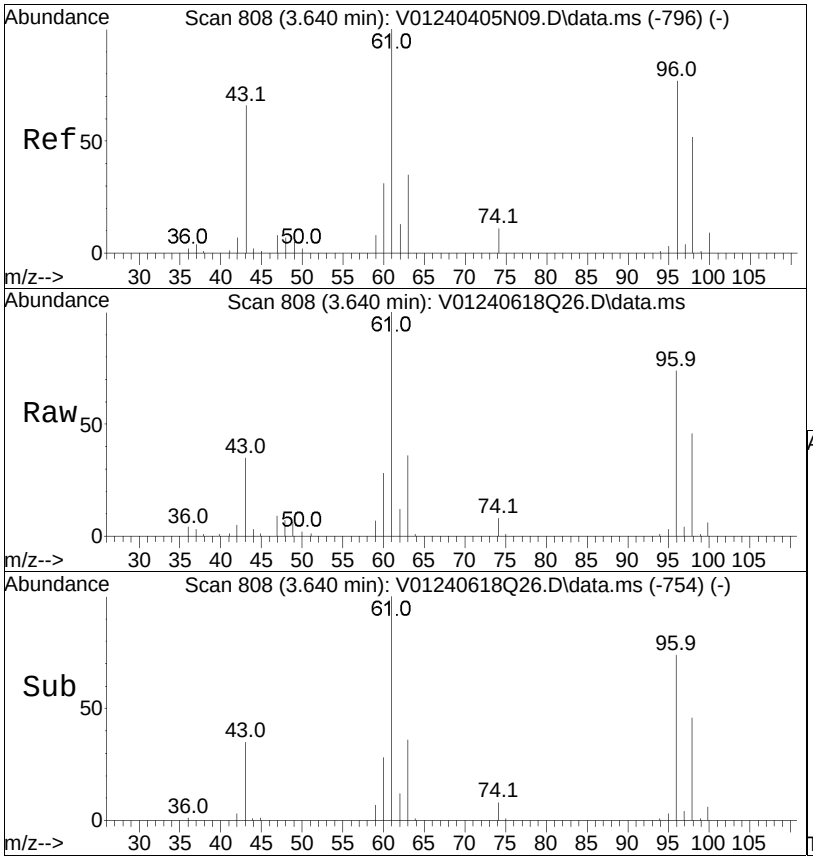


#18
trans-1,2-Dichloroethene
Concen: 10.61 ug/L
RT: 3.629 min Scan# 804
Delta R.T. 0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 96 Resp: 77532

Ion	Ratio	Lower	Upper
96	100		
61	142.0	95.3	197.9
98	63.5	41.0	85.2
63	47.6	30.2	62.6

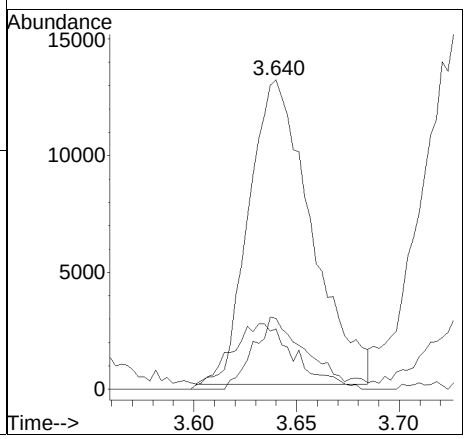


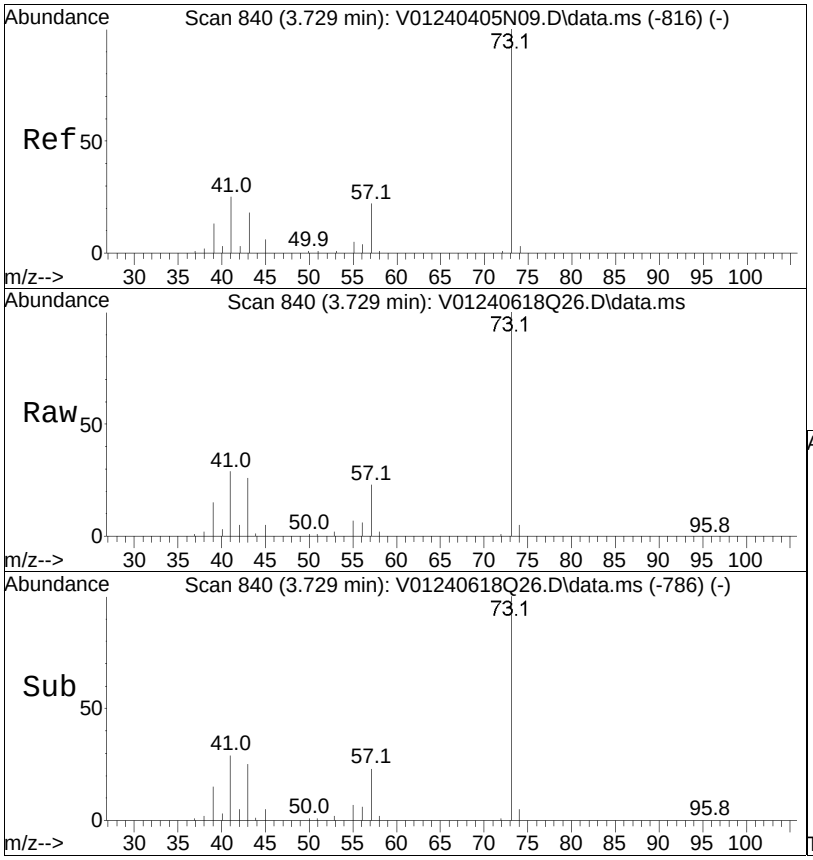


#19
Methyl acetate
Concen: 8.49 ug/L
RT: 3.640 min Scan# 808
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 43 Resp: 27431

Ion	Ratio	Lower	Upper
43	100		
74	19.8	18.2	27.2
59	22.5	18.2	27.2

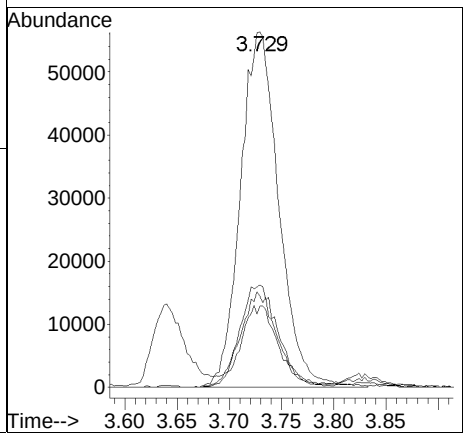


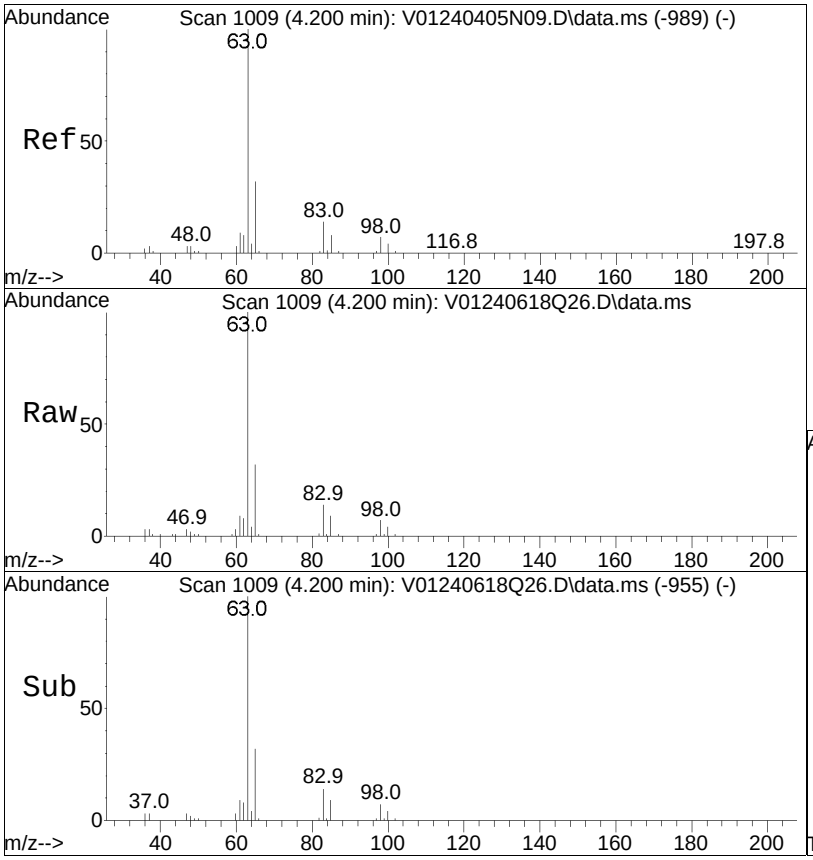


#20
Methyl tert-butyl ether
Concen: 8.32 ug/L
RT: 3.729 min Scan# 840
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 73 Resp: 144091

Ion	Ratio	Lower	Upper
73	100		
57	10.5	14.8	30.6#
43	23.9	15.5	32.3
41	29.2	14.1	29.3

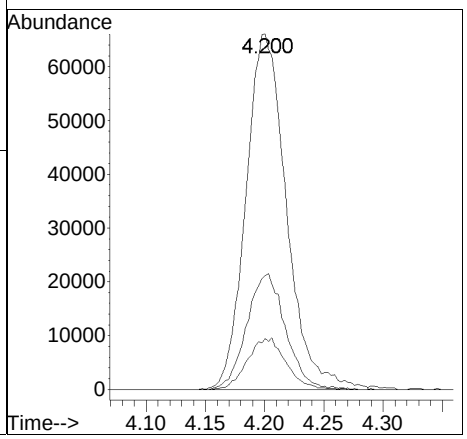


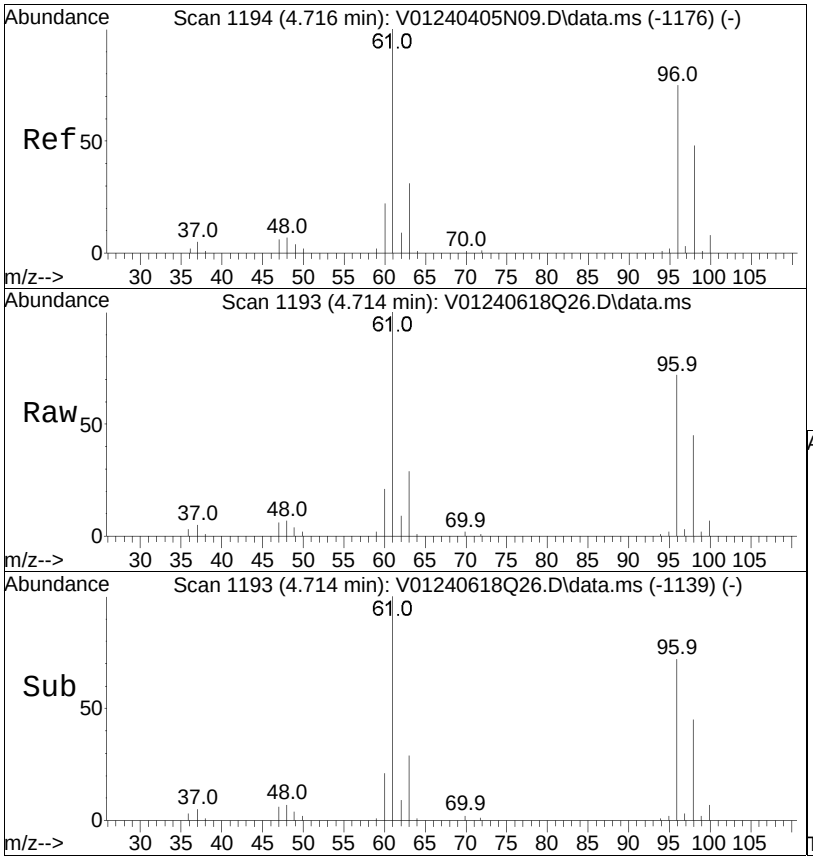


#23
1,1-Dichloroethane
Concen: 11.27 ug/L
RT: 4.200 min Scan# 1009
Delta R.T. -0.001 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 63 Resp: 157167

Ion	Ratio	Lower	Upper
63	100		
65	31.2	10.9	50.9
83	13.7	0.0	33.0

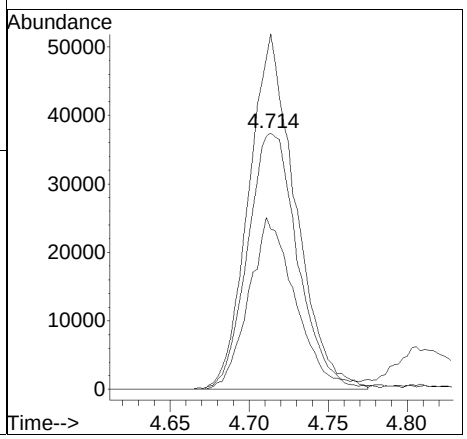


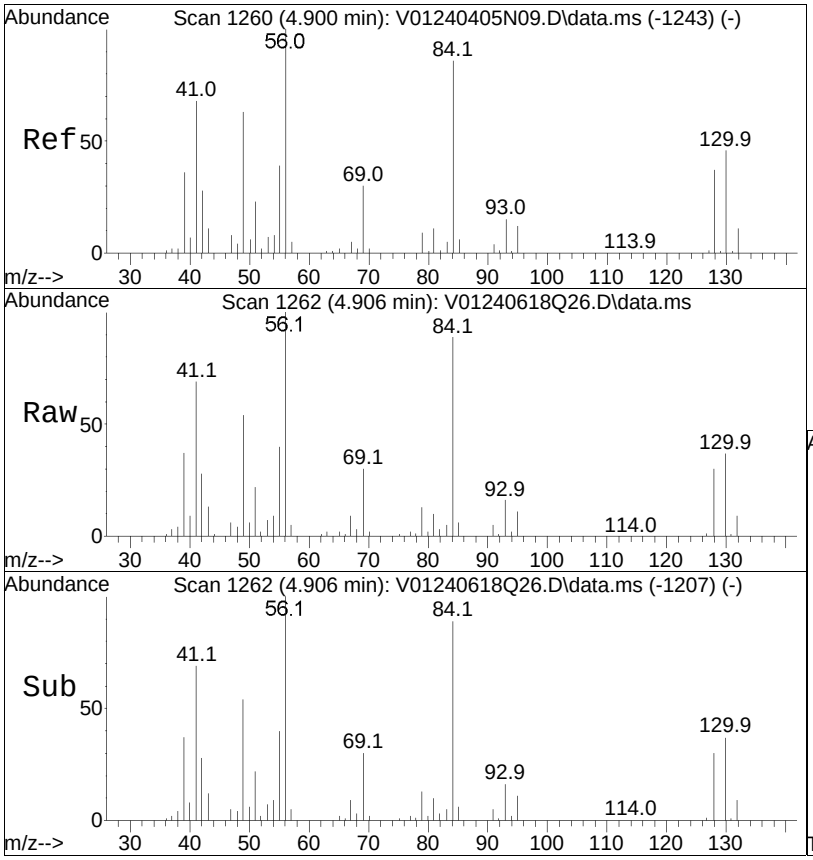


#28
cis-1,2-Dichloroethene
Concen: 10.24 ug/L
RT: 4.714 min Scan# 1193
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 96 Resp: 82907

Ion	Ratio	Lower	Upper
96	100		
61	128.5	105.8	158.6
98	62.0	51.1	76.7

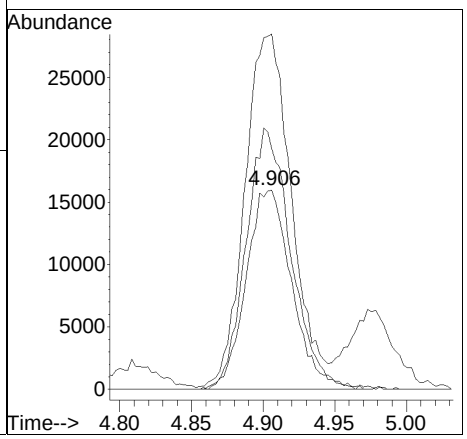


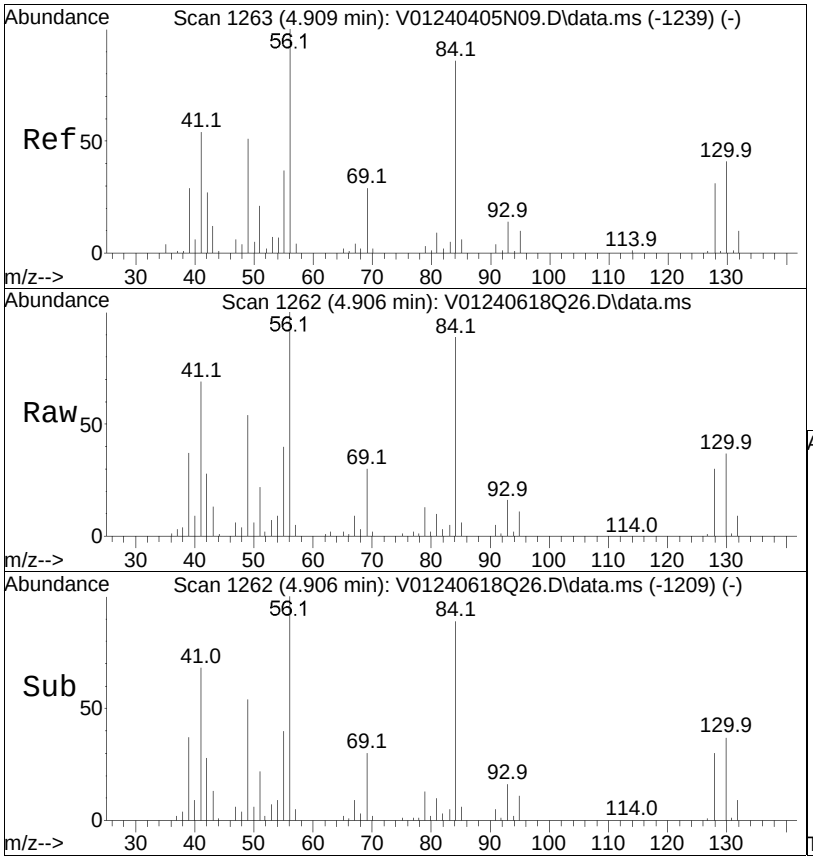


#30
Bromochloromethane
Concen: 9.91 ug/L
RT: 4.906 min Scan# 1262
Delta R.T. 0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:128 Resp: 35534

Ion	Ratio	Lower	Upper
128	100		
49	181.2	140.4	210.6
130	128.3	103.1	154.7

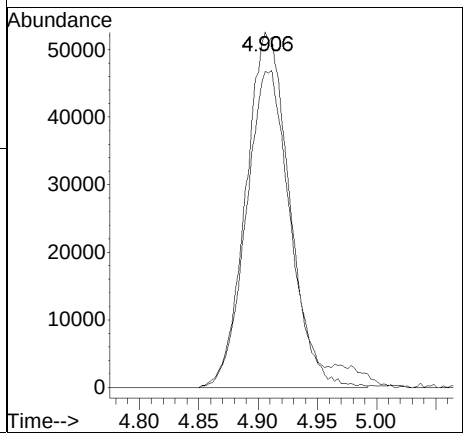


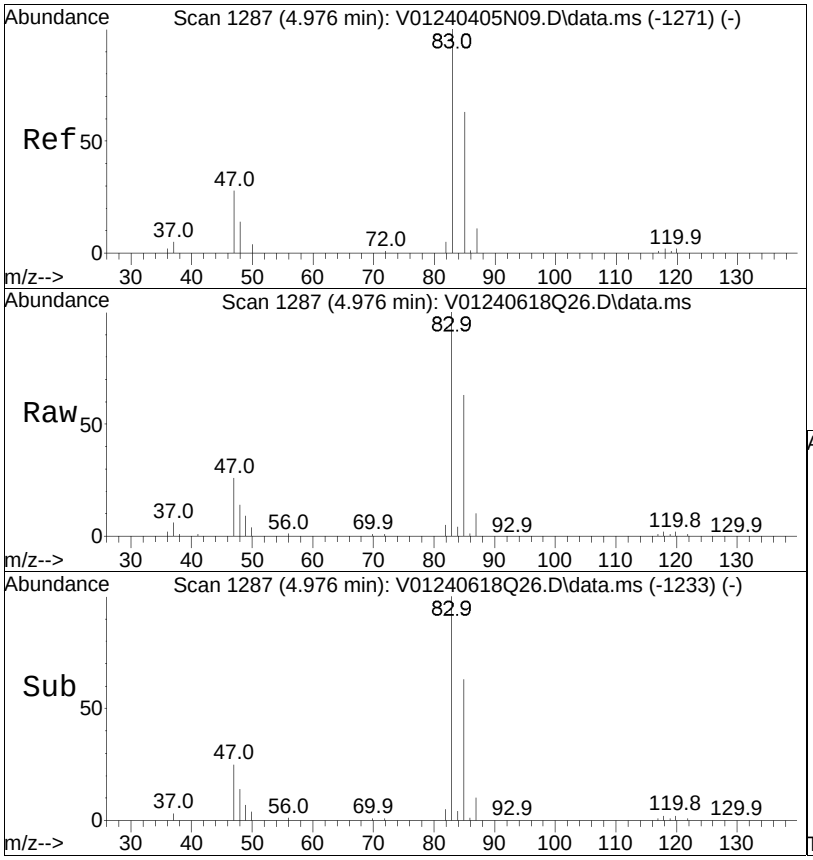


#31
Cyclohexane
Concen: 11.12 ug/L
RT: 4.906 min Scan# 1262
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 56 Resp: 134513

Ion	Ratio	Lower	Upper
56	100		
84	89.1	53.6	111.4

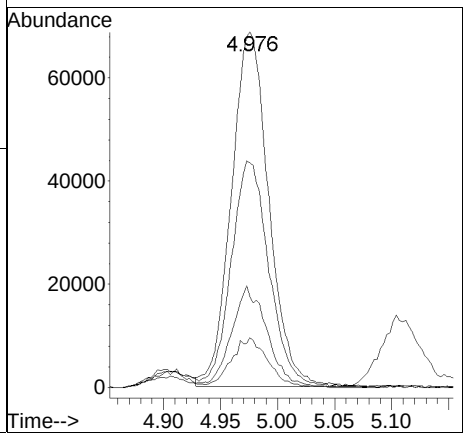


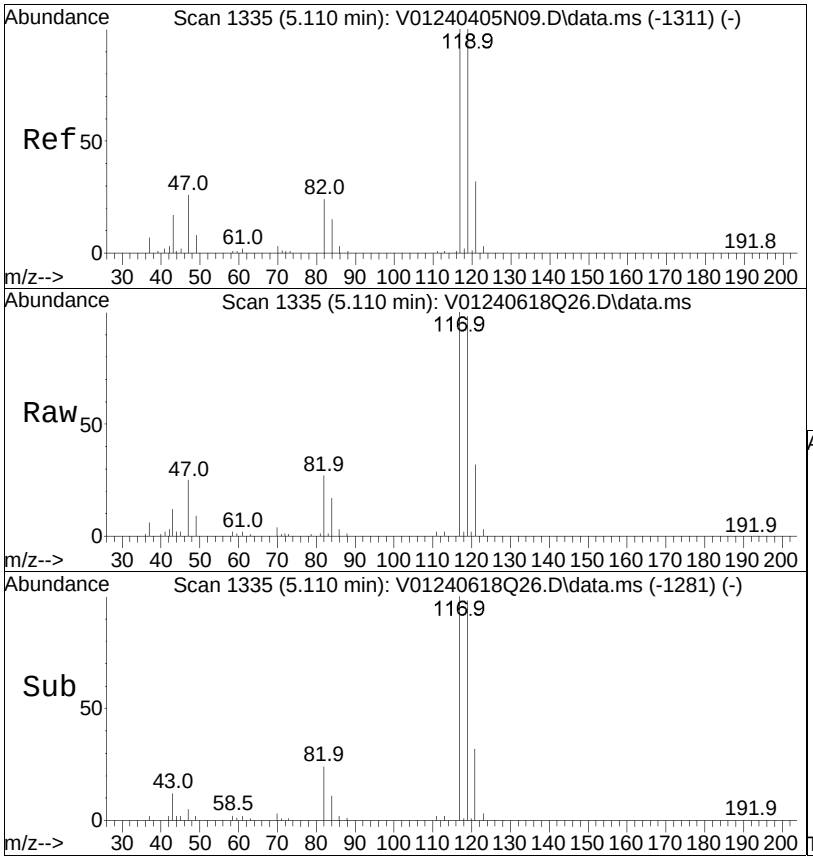


#32
Chloroform
Concen: 11.45 ug/L
RT: 4.976 min Scan# 1287
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 83 Resp: 157110

Ion	Ratio	Lower	Upper
83	100		
85	64.1	42.3	87.8
47	26.7	17.8	37.0
48	13.2	9.3	19.3

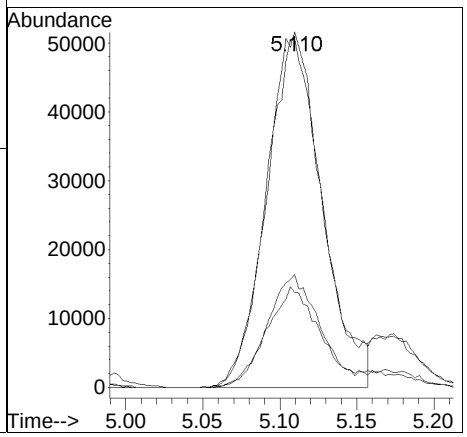


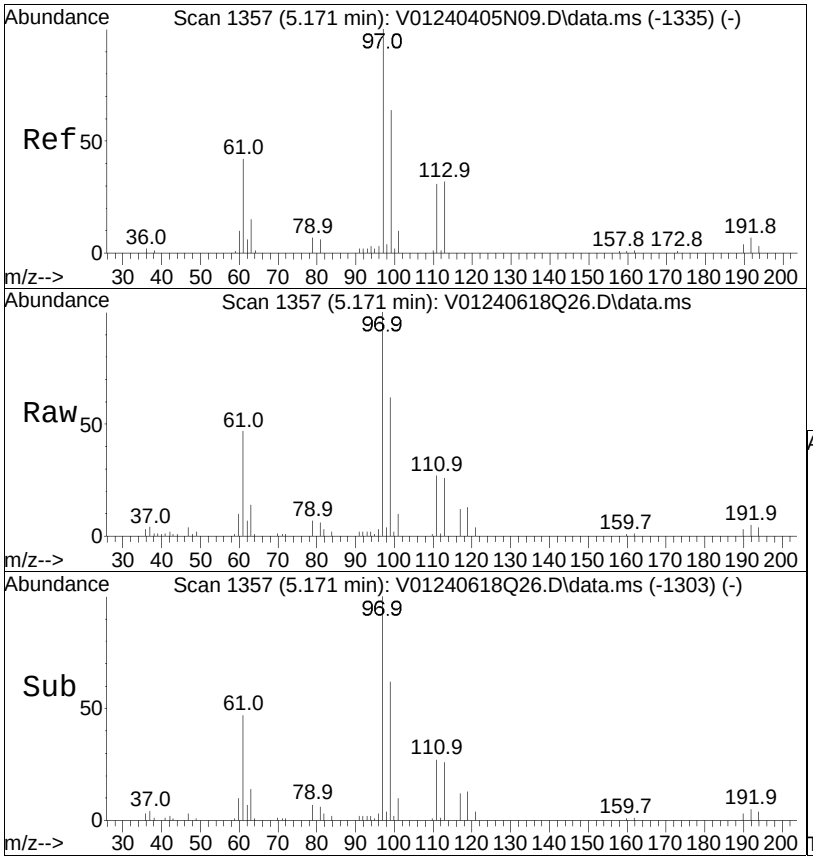


#34
Carbon tetrachloride
Concen: 11.95 ug/L
RT: 5.110 min Scan# 1335
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:117 Resp: 131048

Ion	Ratio	Lower	Upper
117	100		
119	95.4	62.1	128.9
121	29.8	19.8	41.0
82	26.8	17.1	35.5

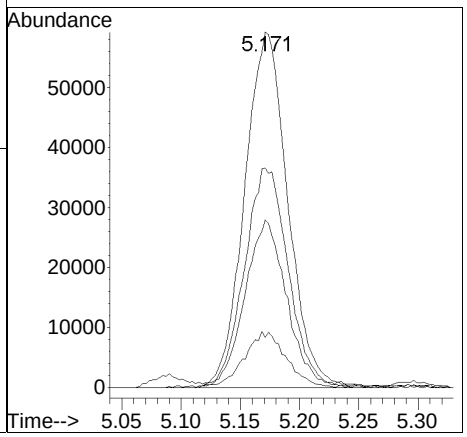


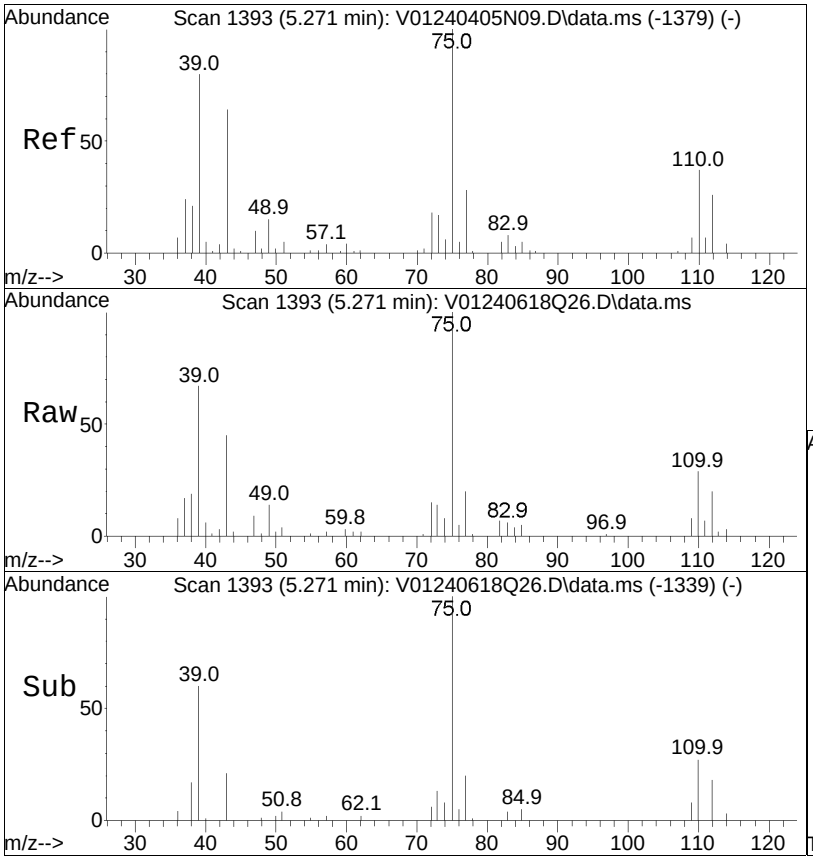


#37
1,1,1-Trichloroethane
Concen: 12.20 ug/L
RT: 5.171 min Scan# 1357
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 97 Resp: 149856

Ion	Ratio	Lower	Upper
97	100		
99	62.6	41.7	86.7
61	45.8	29.4	61.2
63	15.3	9.4	19.4

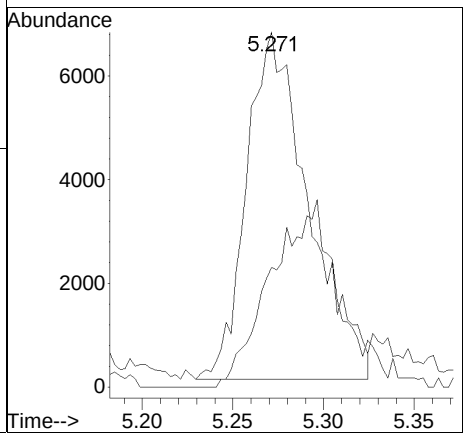


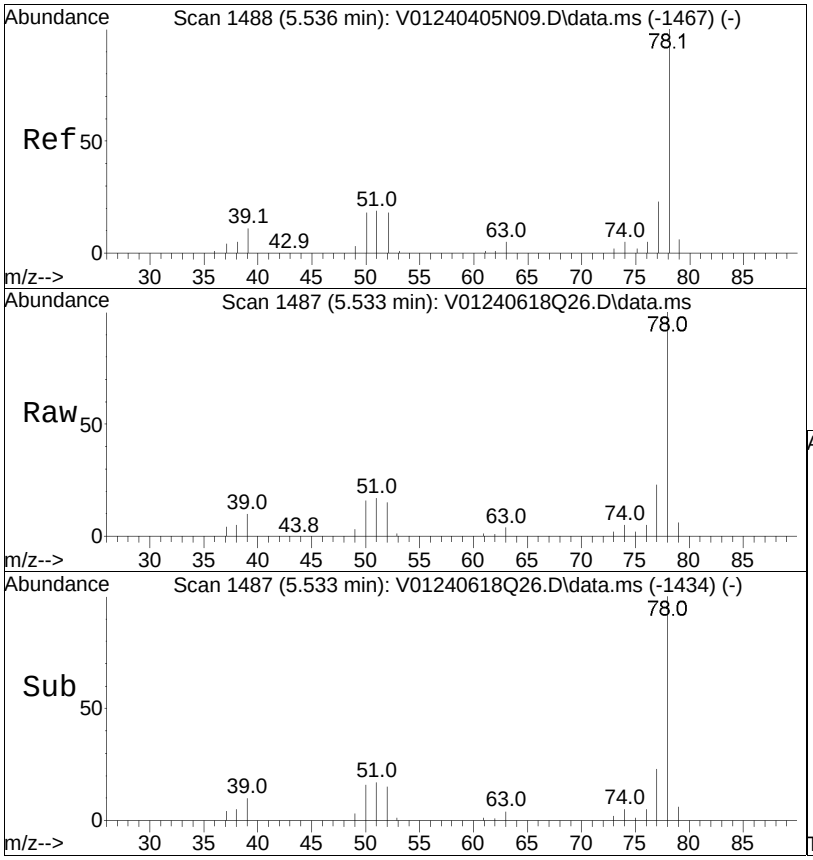


#39
2-Butanone
Concen: 8.59 ug/L
RT: 5.271 min Scan# 1393
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 43 Resp: 15980

Ion	Ratio	Lower	Upper
43	100		
72	55.1	45.8	68.6

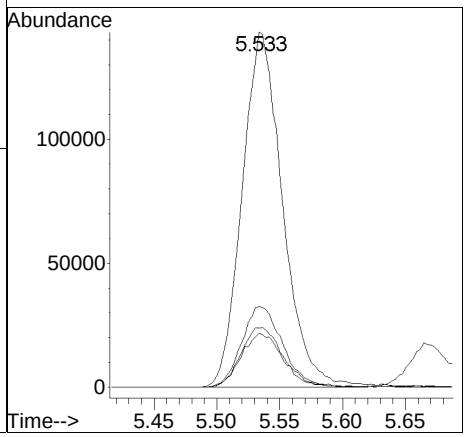


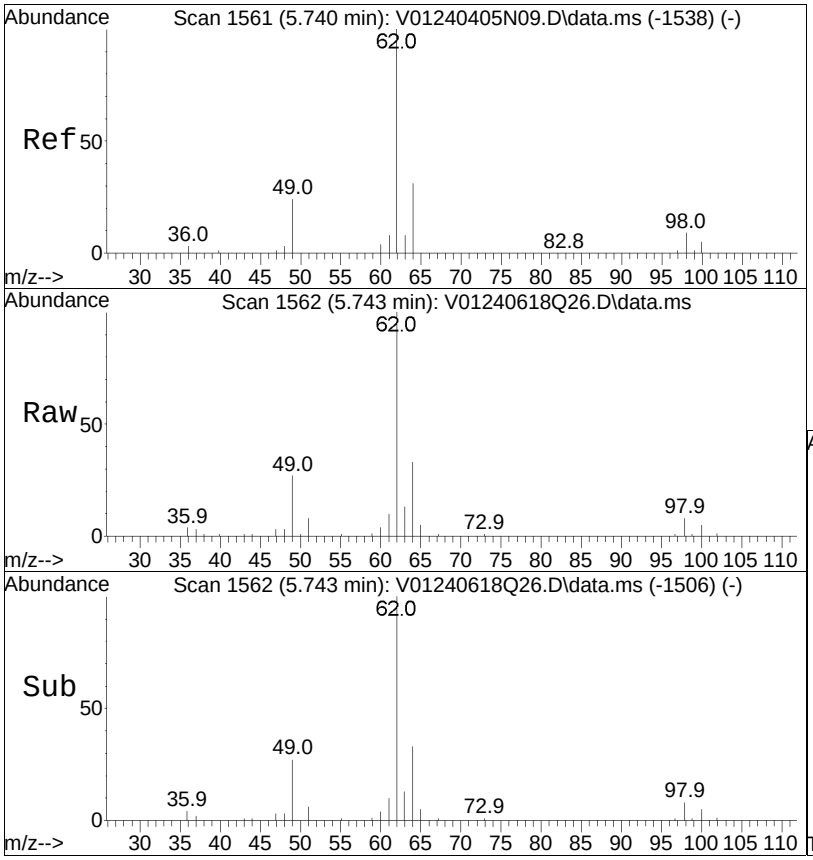


#41
Benzene
Concen: 10.88 ug/L
RT: 5.533 min Scan# 1487
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 78 Resp: 320880

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.7	32.5
51	17.7	11.6	24.2
52	15.8	10.9	22.5

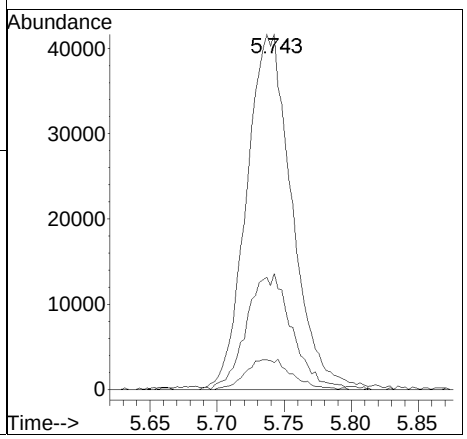


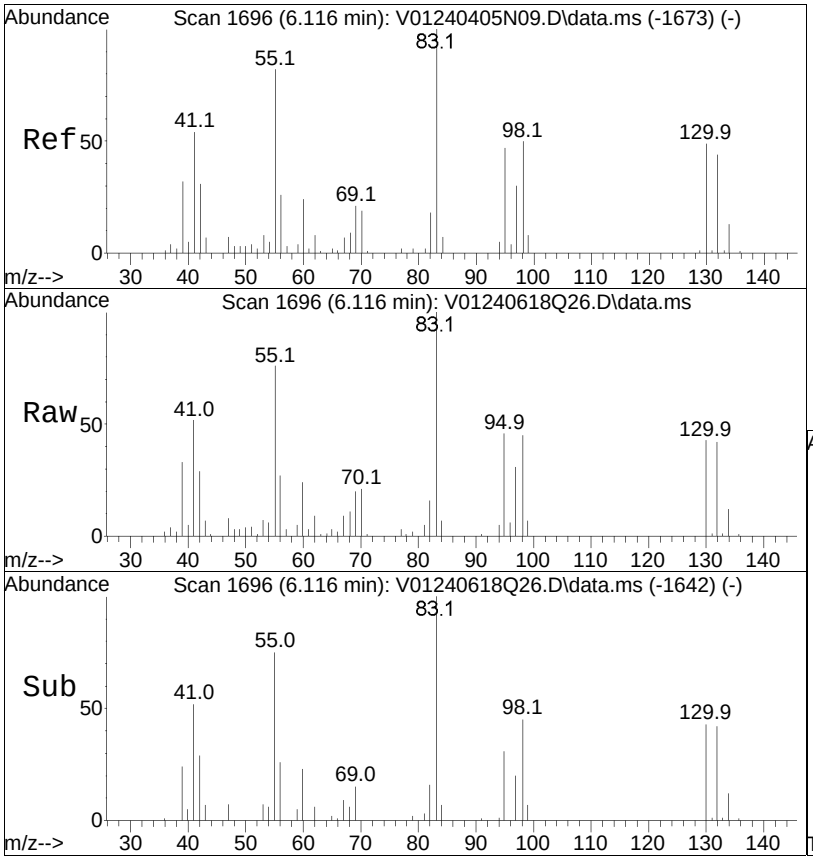


#44
1,2-Dichloroethane
Concen: 10.24 ug/L
RT: 5.743 min Scan# 1562
Delta R.T. 0.006 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 62 Resp: 98254

Ion	Ratio	Lower	Upper
62	100		
64	32.7	12.1	52.1
98	8.5	0.0	28.8

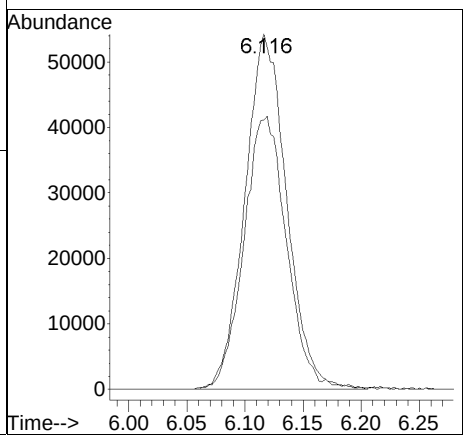


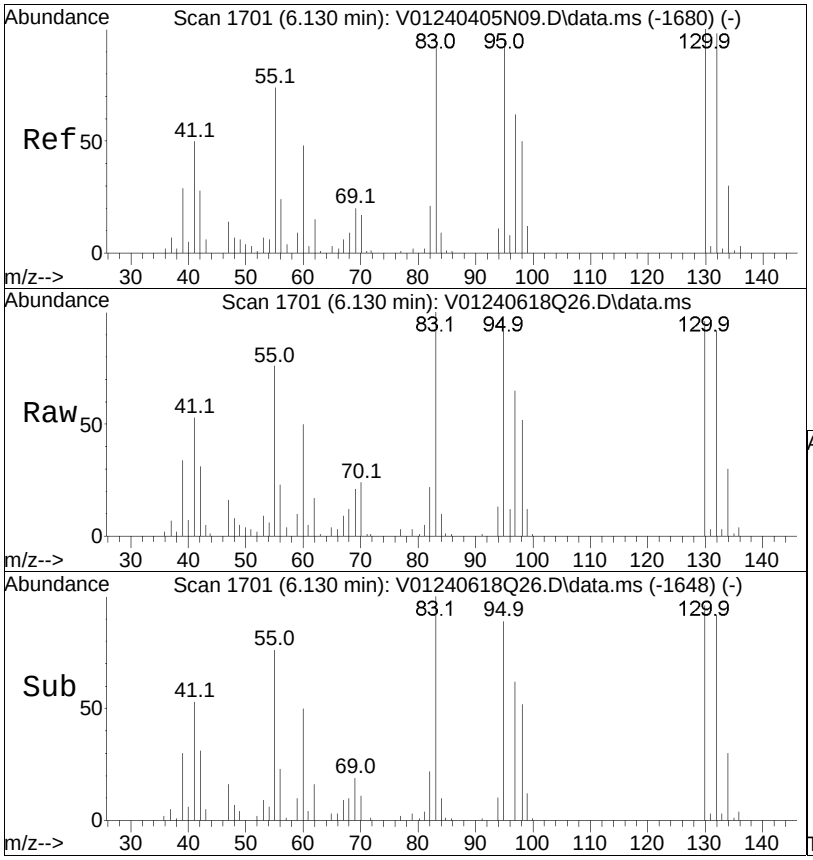


#47
Methyl cyclohexane
Concen: 11.25 ug/L
RT: 6.116 min Scan# 1696
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 83 Resp: 135843

Ion	Ratio	Lower	Upper
83	100		
55	78.7	64.6	96.8

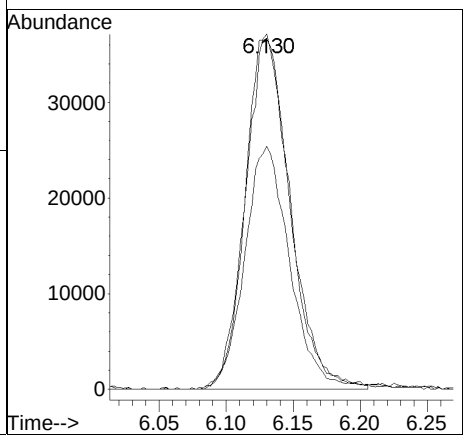


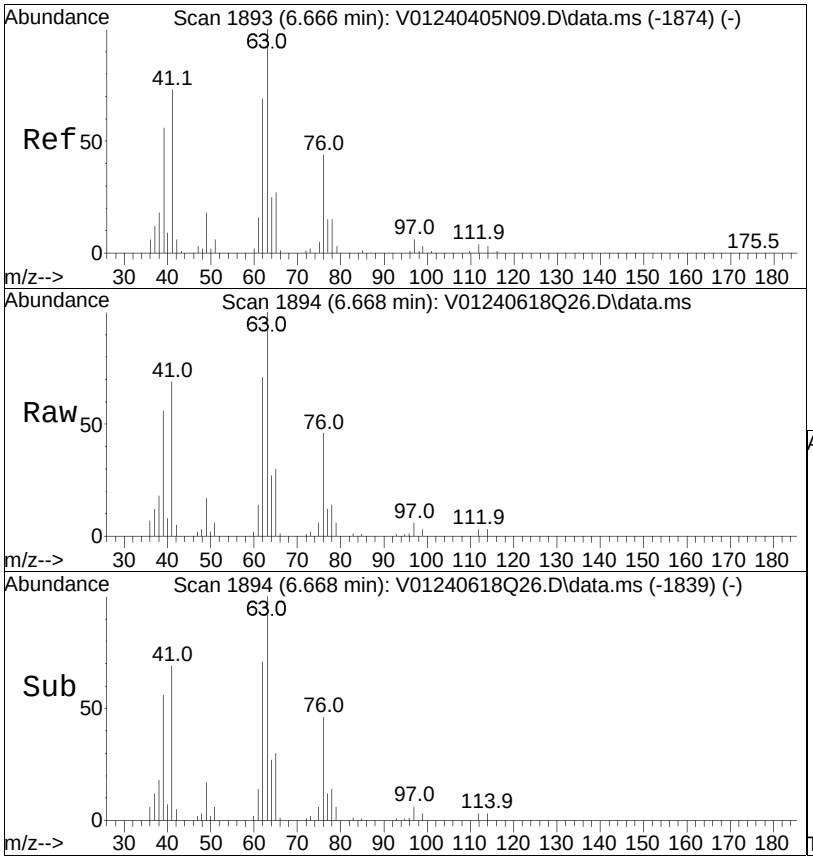


#48
Trichloroethene
Concen: 10.14 ug/L
RT: 6.130 min Scan# 1701
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 95 Resp: 87919

Ion	Ratio	Lower	Upper
95	100		
97	68.3	54.4	81.6
130	95.6	80.6	120.8

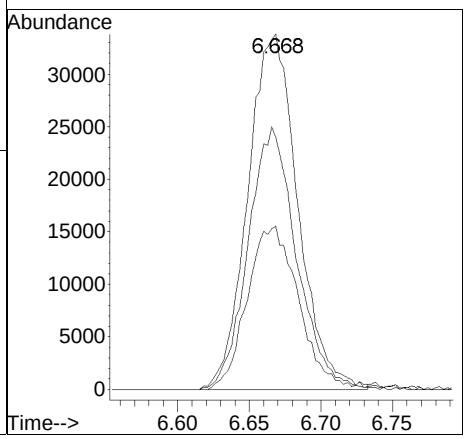


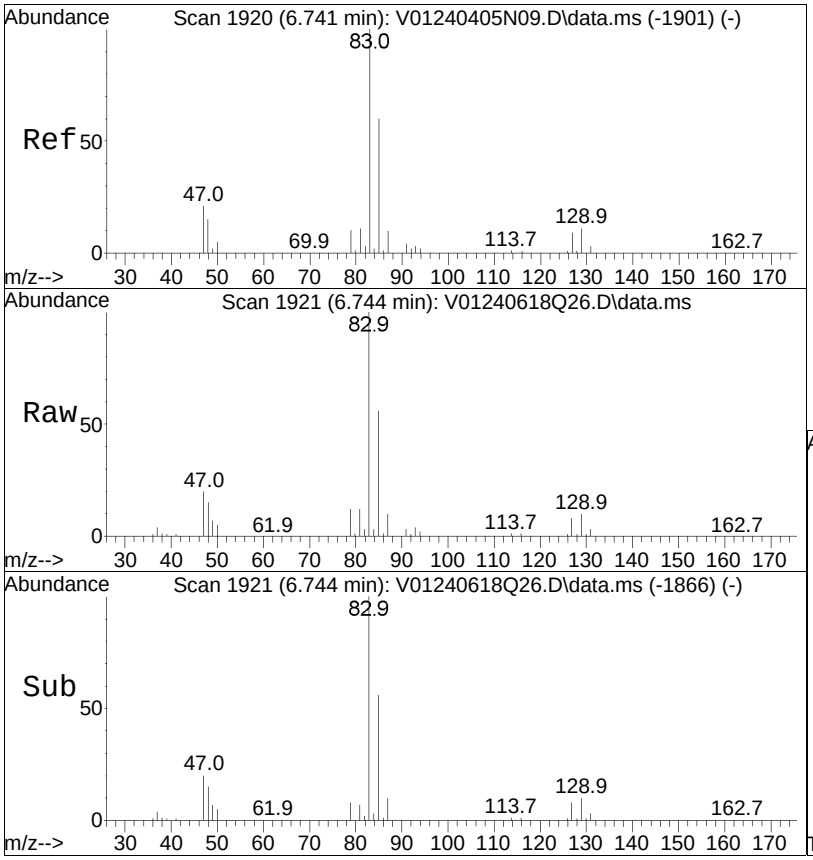


#51
1,2-Dichloropropane
Concen: 10.86 ug/L
RT: 6.668 min Scan# 1894
Delta R.T. 0.002 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 63 Resp: 82256

Ion	Ratio	Lower	Upper
63	100		
62	71.3	57.2	85.8
76	47.1	33.6	50.4

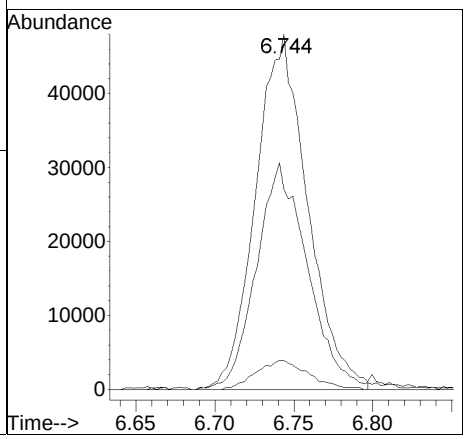


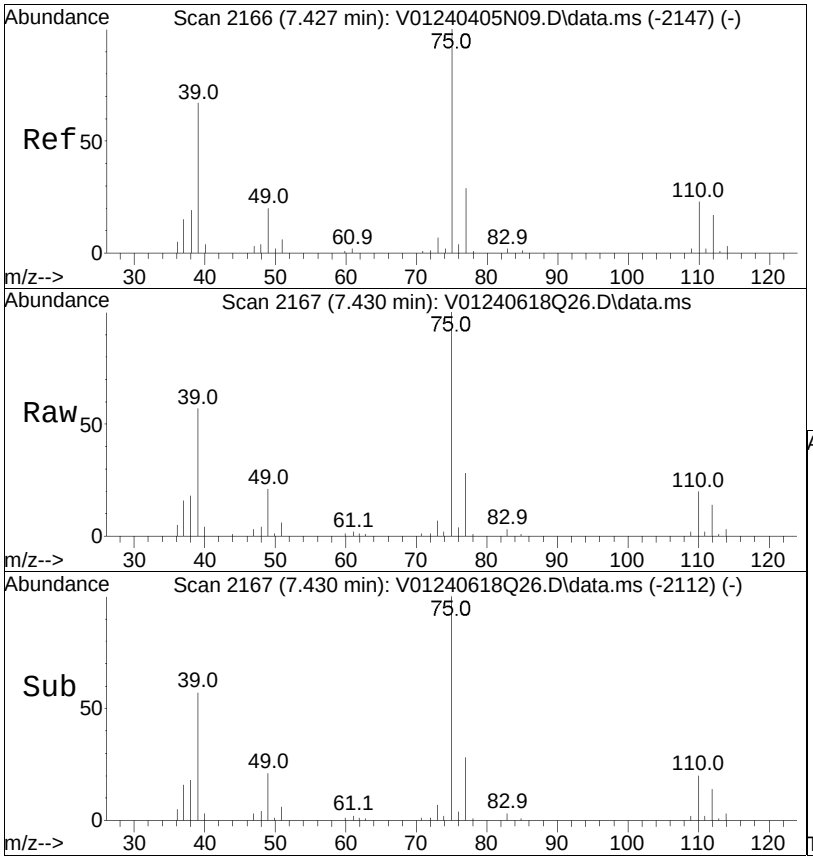


#54
Bromodichloromethane
Concen: 10.18 ug/L
RT: 6.744 min Scan# 1921
Delta R.T. 0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 83 Resp: 109487

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.2	78.4
127	8.3	6.9	10.3

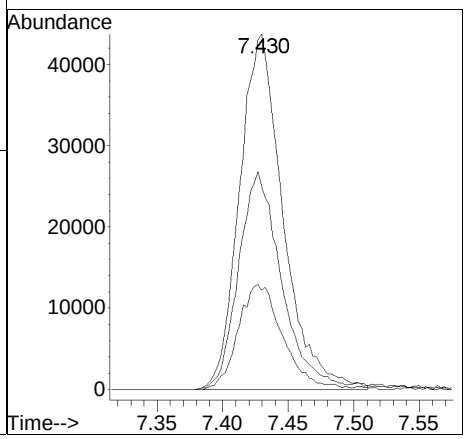


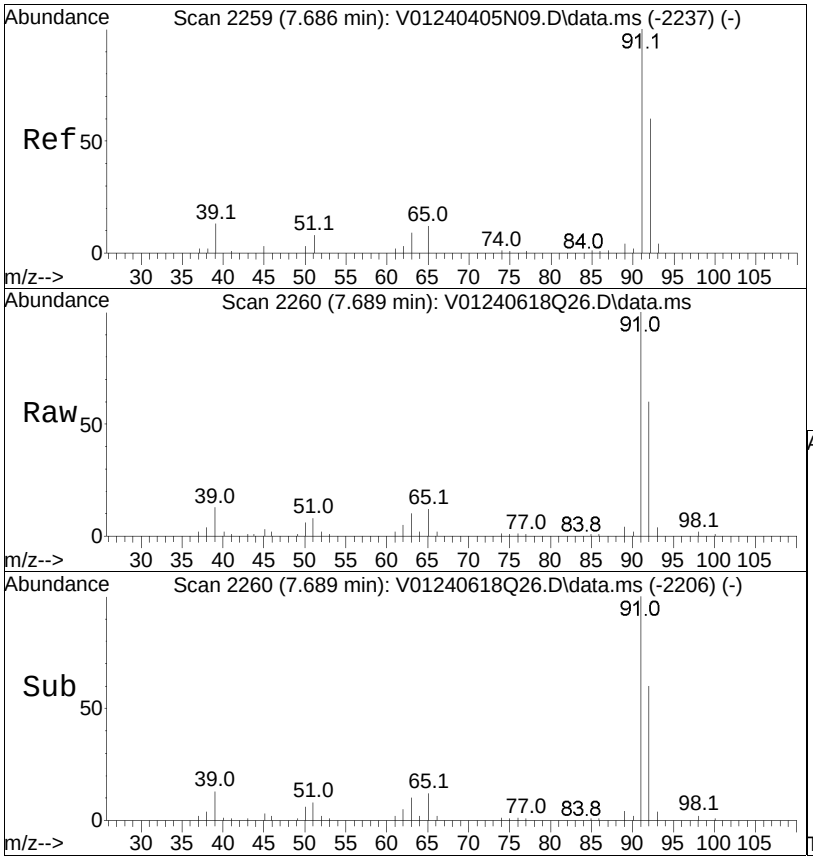


#58
cis-1,3-Dichloropropene
Concen: 8.60 ug/L
RT: 7.430 min Scan# 2167
Delta R.T. 0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 75 Resp: 100983

Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.1	37.7
39	60.3	42.6	63.8

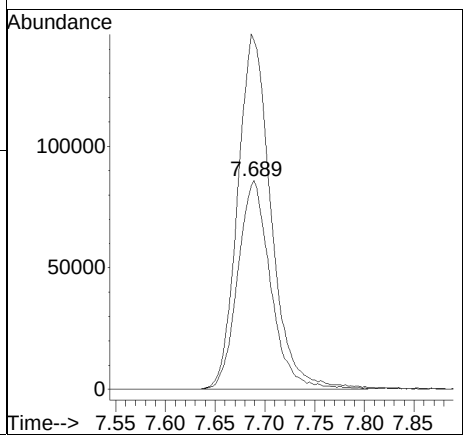


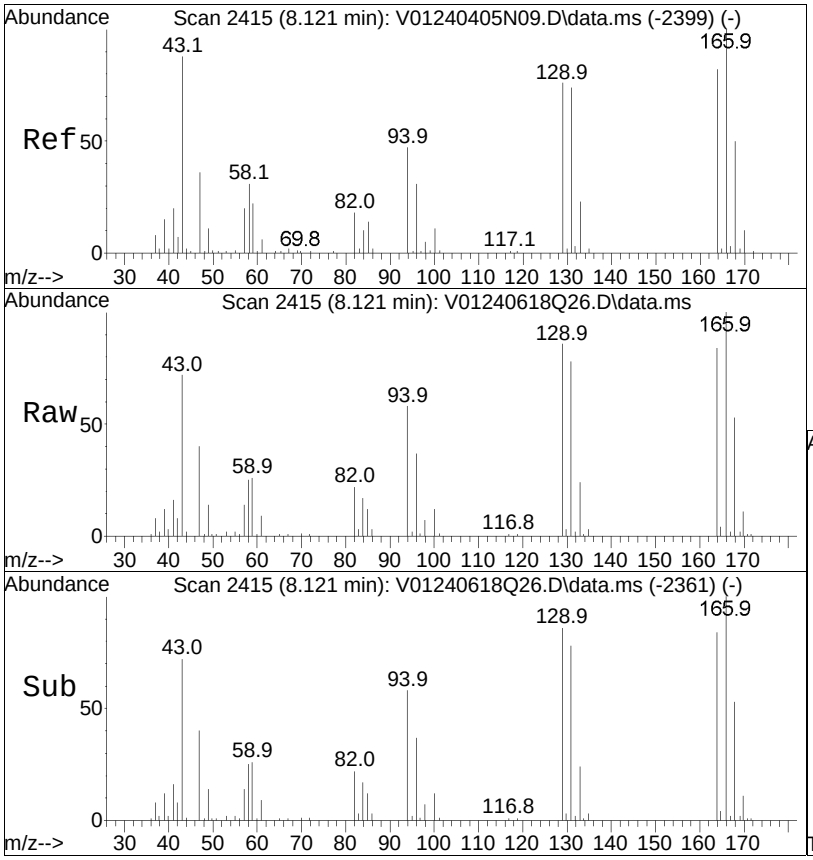


#61
Toluene
Concen: 10.90 ug/L
RT: 7.689 min Scan# 2260
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 92 Resp: 198780

Ion	Ratio	Lower	Upper
92	100		
91	172.0	137.5	206.3

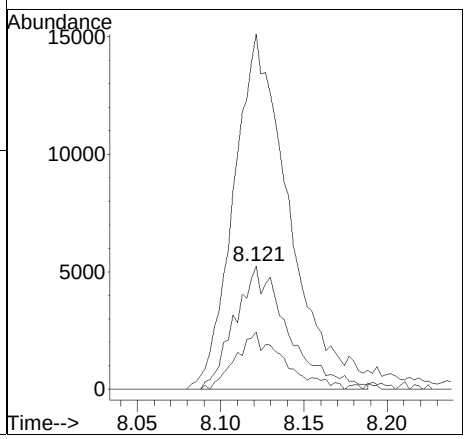


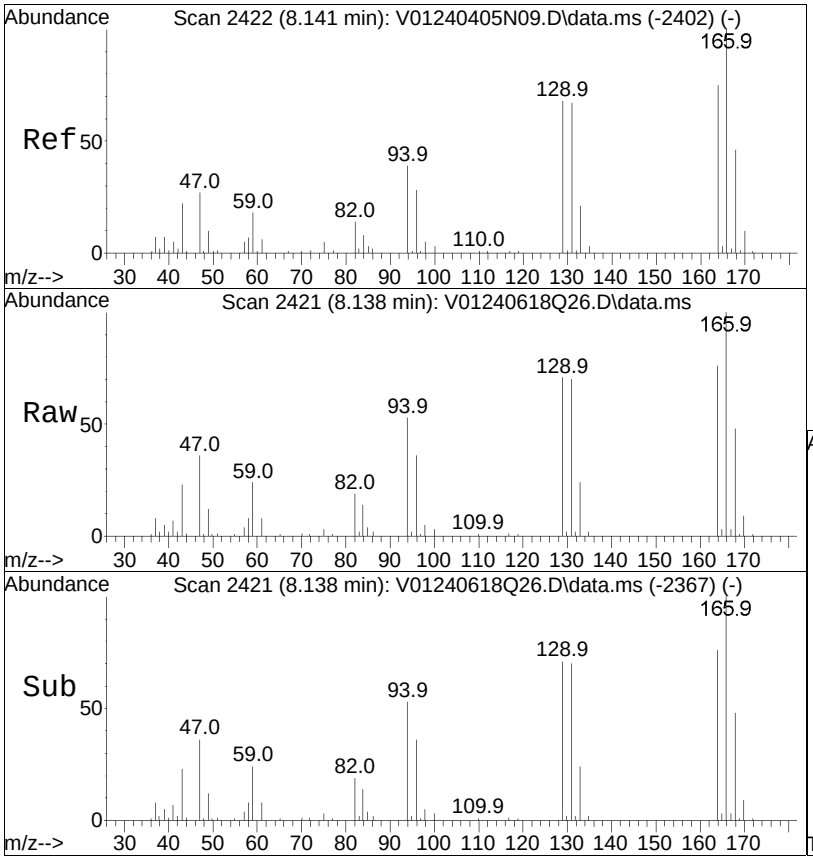


#62
4-Methyl-2-pentanone
Concen: 7.02 ug/L
RT: 8.121 min Scan# 2415
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 58 Resp: 11668

Ion	Ratio	Lower	Upper
58	100		
100	42.1	31.8	47.6
43	294.2	212.5	318.7

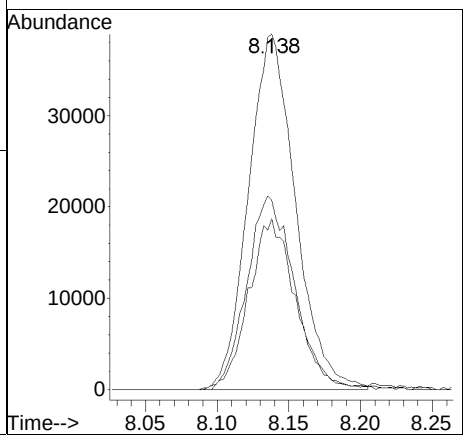


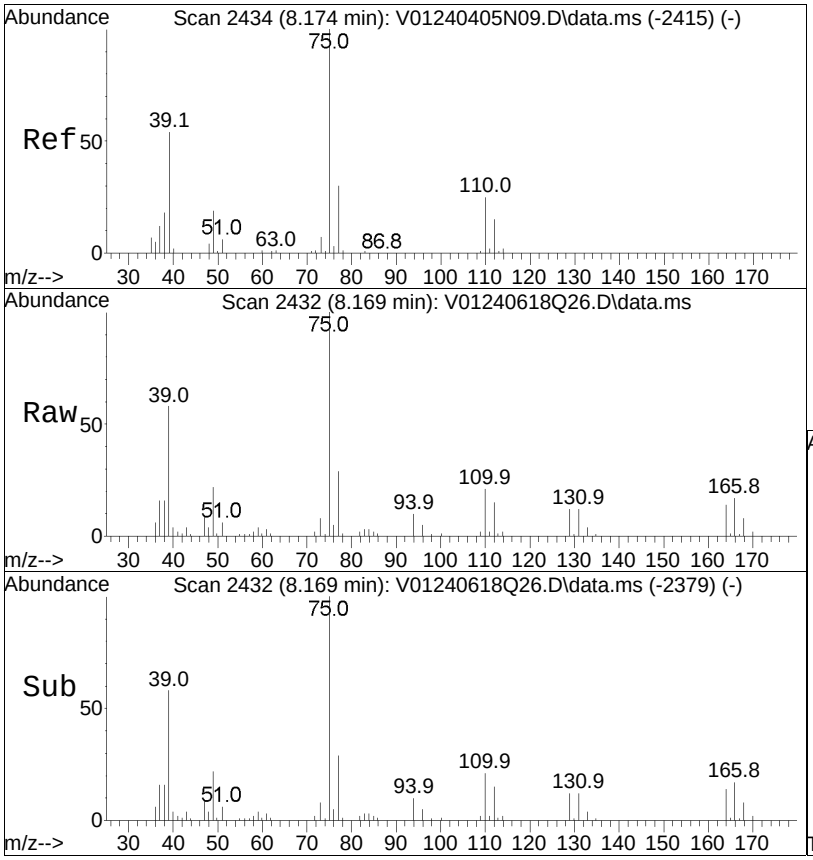


#63
Tetrachloroethene
Concen: 10.58 ug/L
RT: 8.138 min Scan# 2421
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:166 Resp: 88944

Ion	Ratio	Lower	Upper
166	100		
168	47.3	27.4	67.4
94	54.9	24.8	64.8

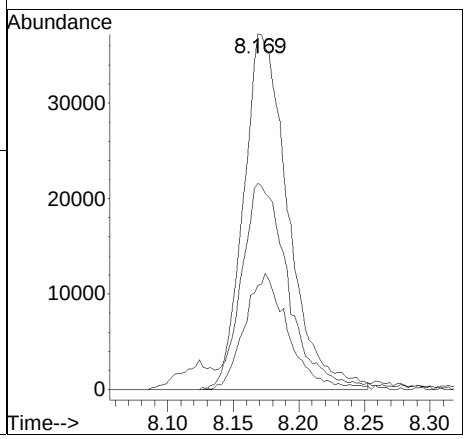


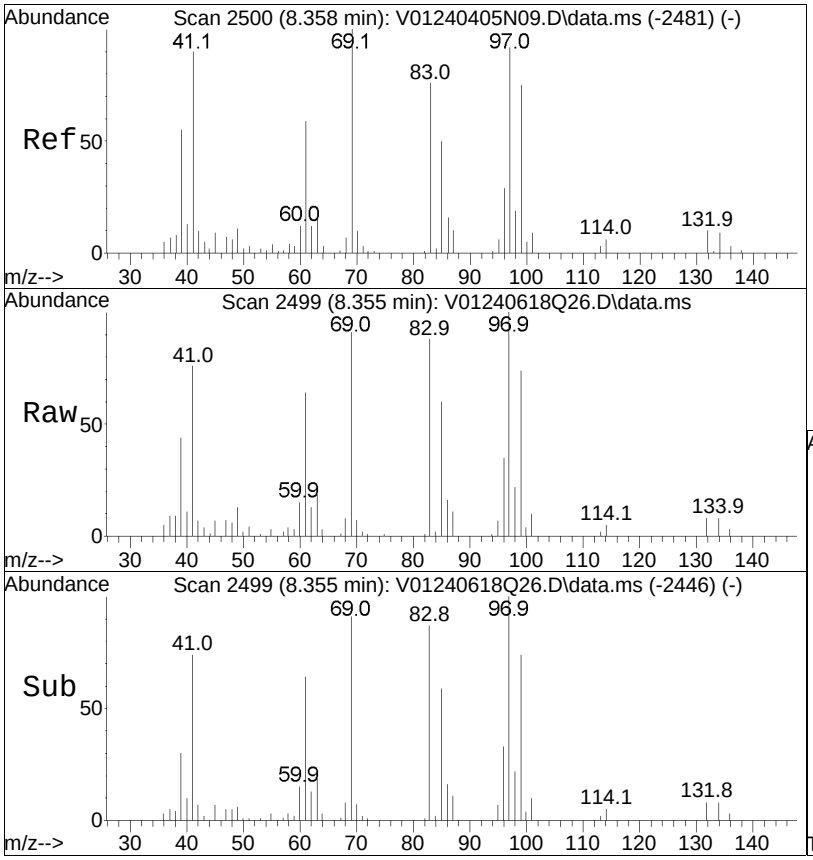


#65
trans-1,3-Dichloropropene
Concen: 8.79 ug/L
RT: 8.169 min Scan# 2432
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 75 Resp: 87767

Ion	Ratio	Lower	Upper
75	100		
77	31.6	11.8	51.8
39	59.4	30.2	70.2

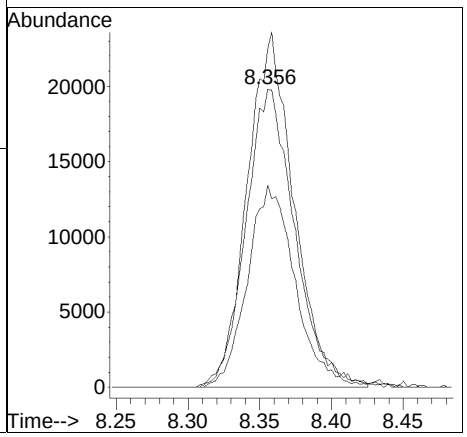


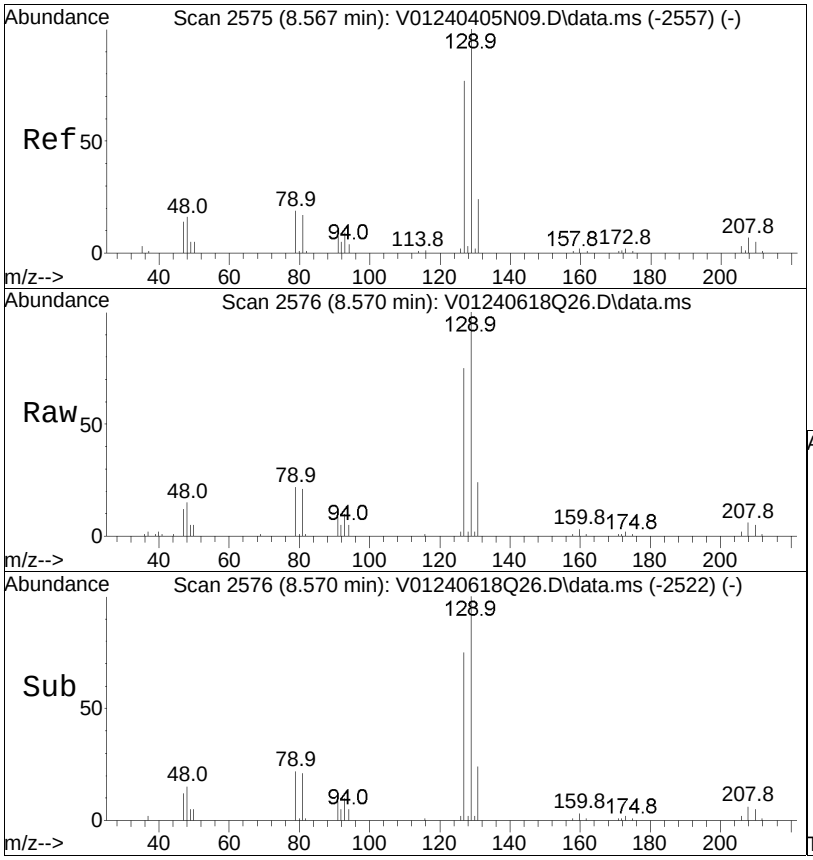


#68
1,1,2-Trichloroethane
Concen: 10.12 ug/L
RT: 8.355 min Scan# 2499
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 83 Resp: 46933

Ion	Ratio	Lower	Upper
83	100		
97	114.4	96.7	136.7
85	66.4	45.3	85.3

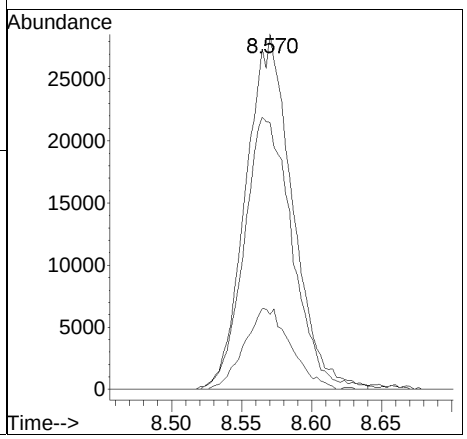


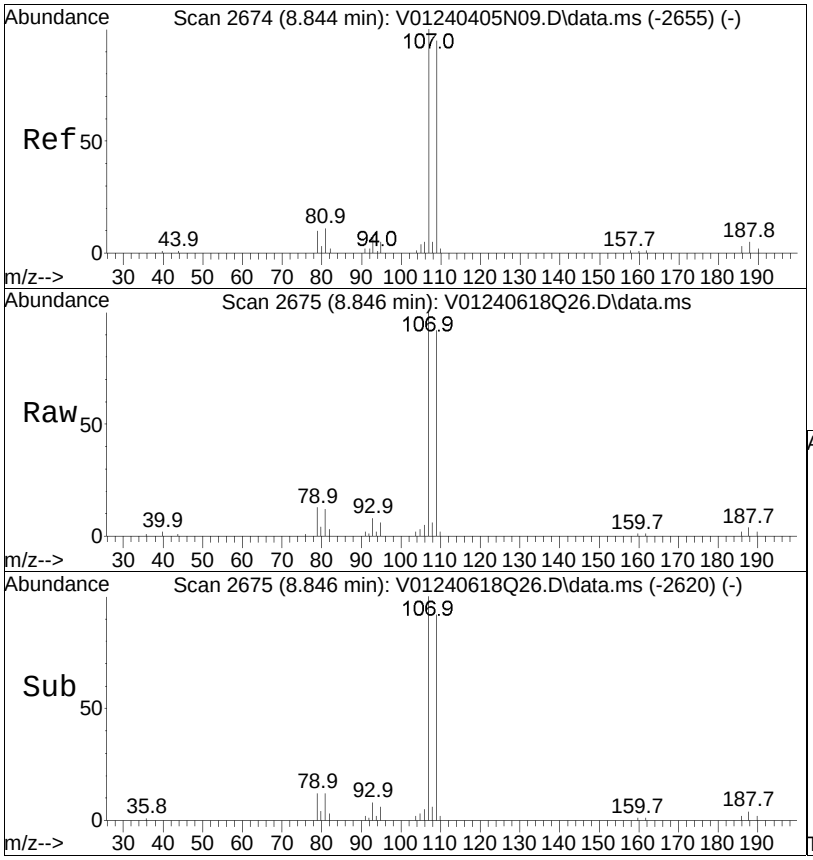


#69
Chlorodibromomethane
Concen: 9.19 ug/L
RT: 8.570 min Scan# 2576
Delta R.T. 0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:129 Resp: 66325

Ion	Ratio	Lower	Upper
129	100		
81	22.7	0.0	37.9
127	79.6	56.6	96.6

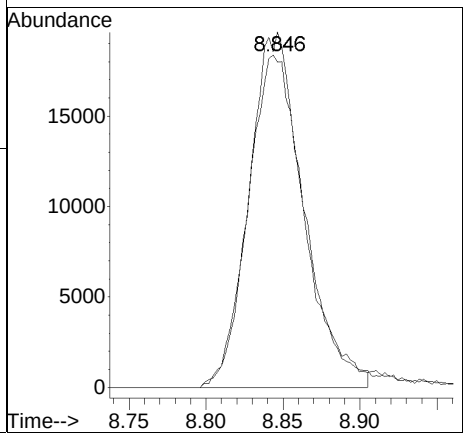


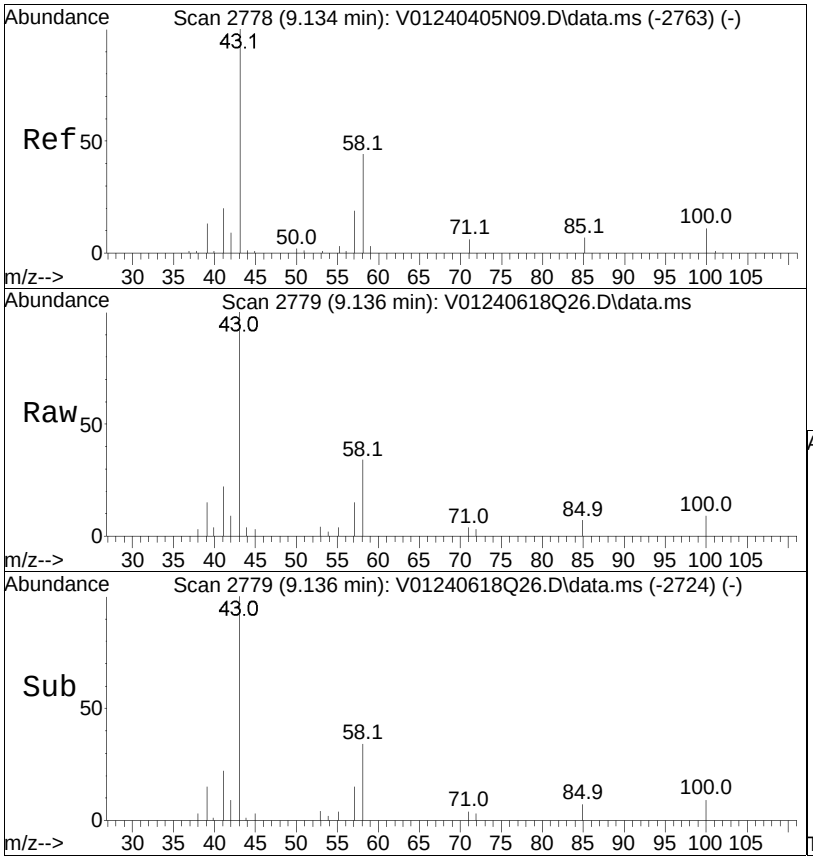


#71
1,2-Dibromoethane
Concen: 9.25 ug/L
RT: 8.846 min Scan# 2675
Delta R.T. 0.002 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:107 Resp: 48740

Ion	Ratio	Lower	Upper
107	100		
109	95.9	75.6	113.4

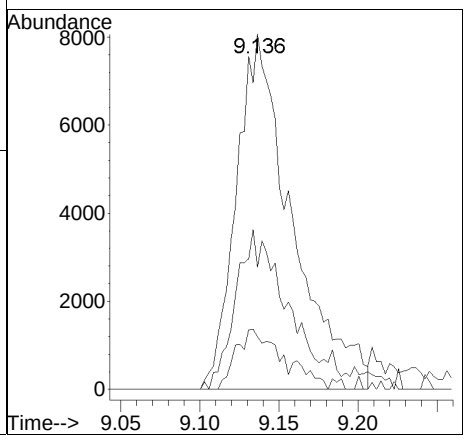


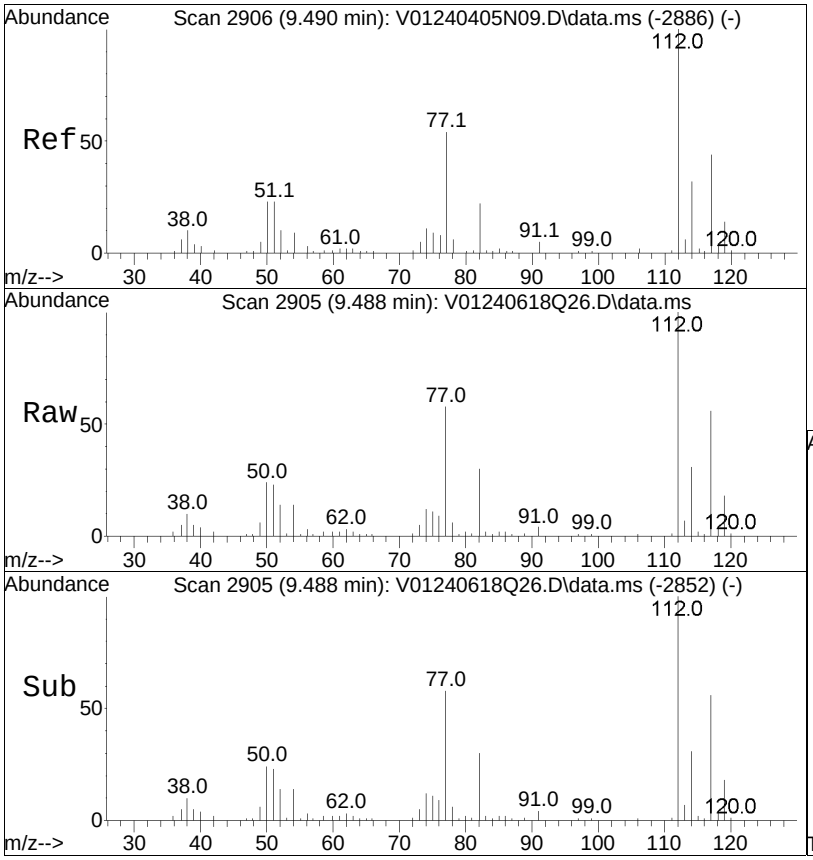


#72
2-Hexanone
Concen: 6.33 ug/L
RT: 9.136 min Scan# 2779
Delta R.T. 0.002 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 43 Resp: 19809

Ion	Ratio	Lower	Upper
43	100		
58	39.9	40.8	61.2#
57	11.8	14.2	21.4#

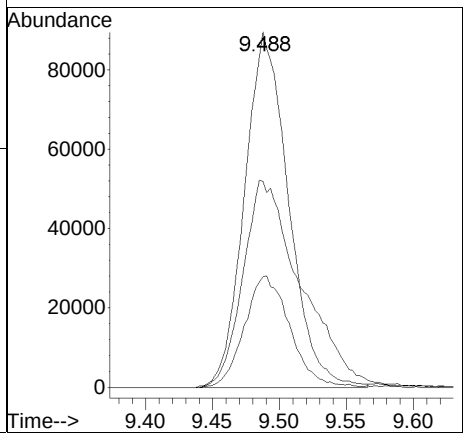


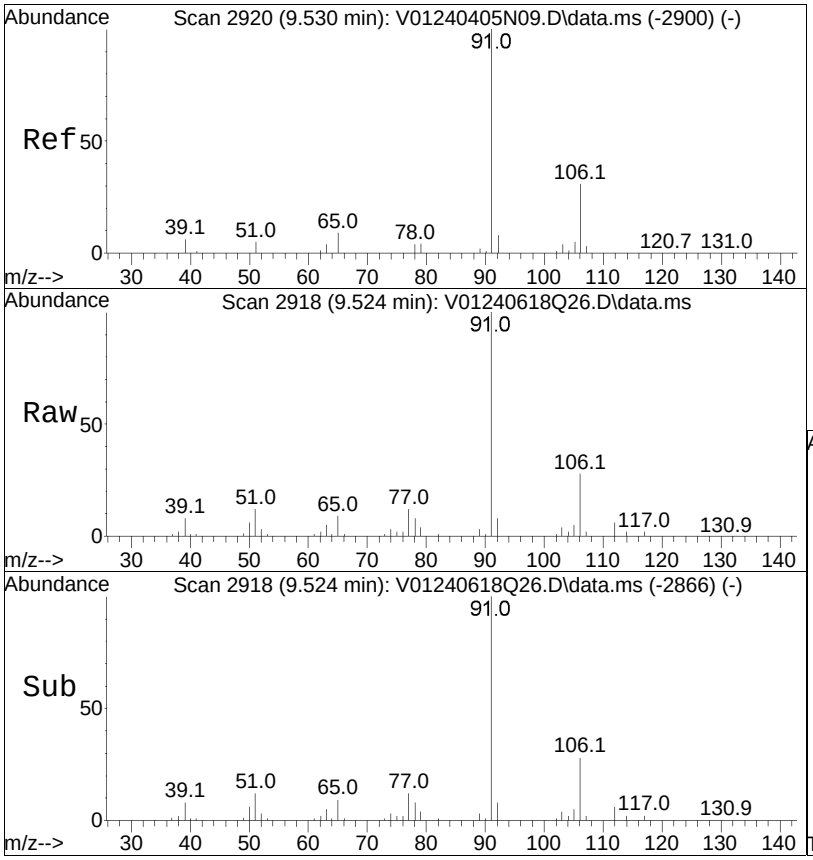


#73
Chlorobenzene
Concen: 10.18 ug/L
RT: 9.488 min Scan# 2905
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:112 Resp: 204253

Ion	Ratio	Lower	Upper
112	100		
77	77.6	59.8	89.6
114	32.4	25.4	38.2

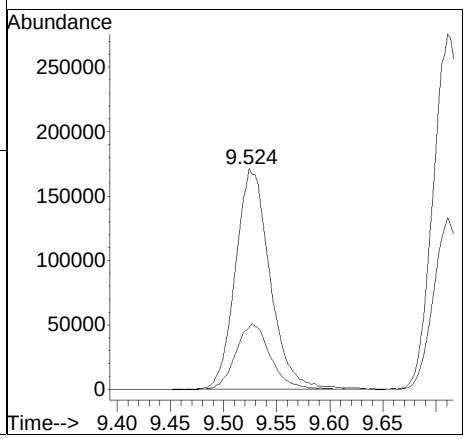


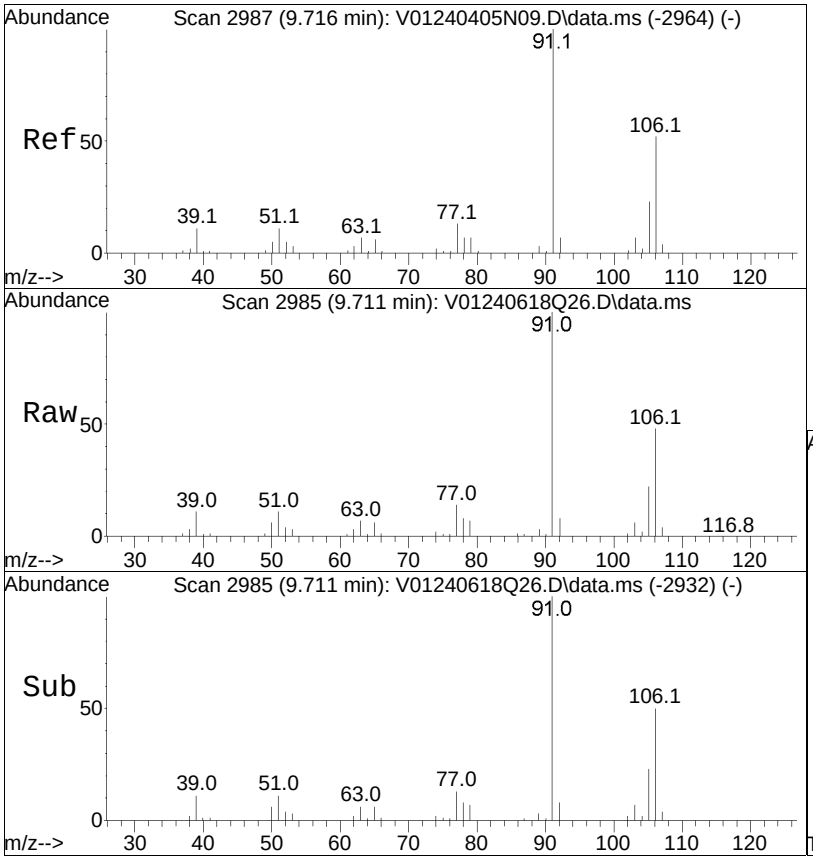


#74
Ethylbenzene
Concen: 10.82 ug/L
RT: 9.524 min Scan# 2918
Delta R.T. -0.006 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 91 Resp: 384993

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.7	37.1

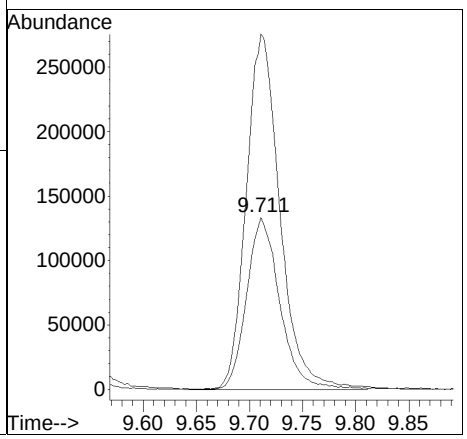


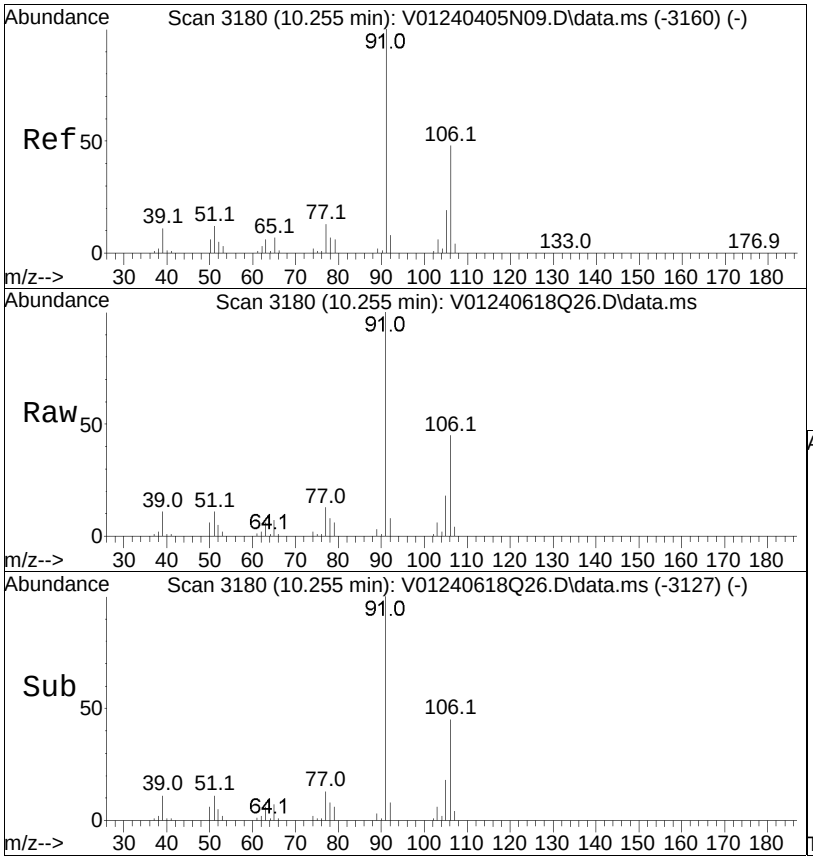


#76
p/m Xylene
Concen: 21.16 ug/L
RT: 9.711 min Scan# 2985
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:106 Resp: 289863

Ion	Ratio	Lower	Upper
106	100		
91	207.5	162.9	244.3

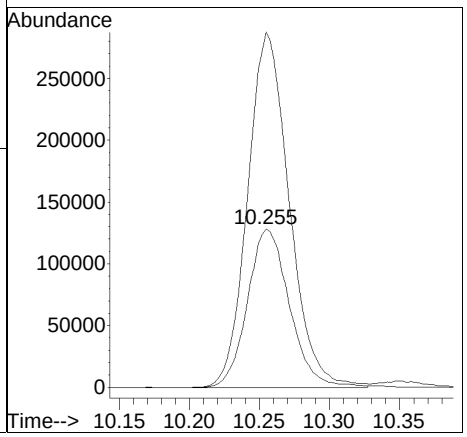


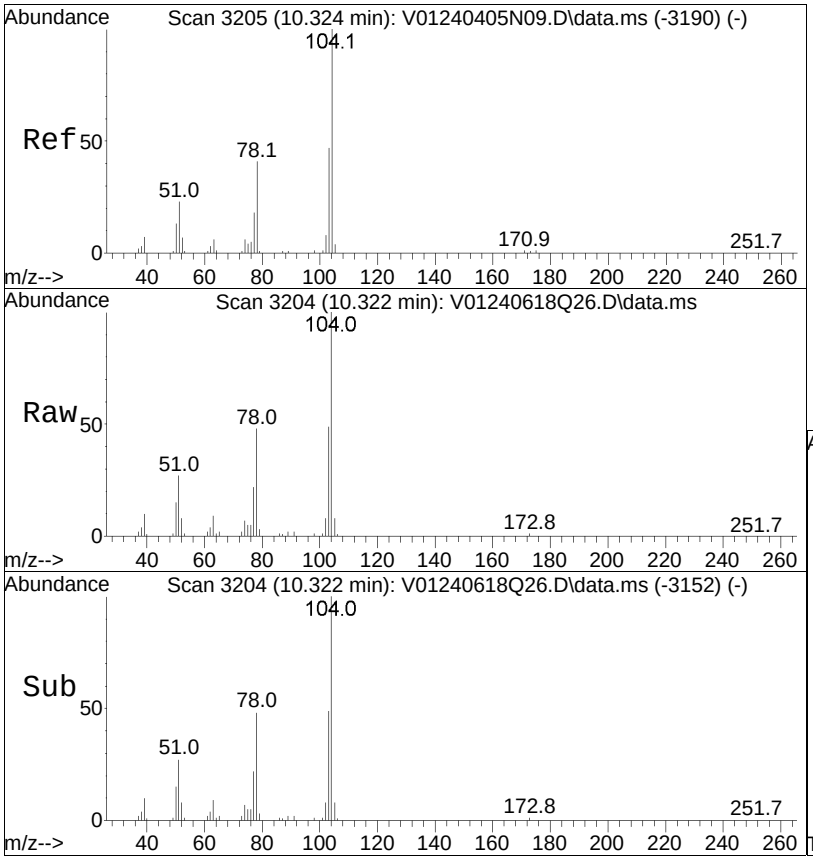


#77
o Xylene
Concen: 20.36 ug/L
RT: 10.255 min Scan# 3180
Delta R.T. -0.002 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:106 Resp: 266716

Ion	Ratio	Lower	Upper
106	100		
91	222.4	171.2	256.8

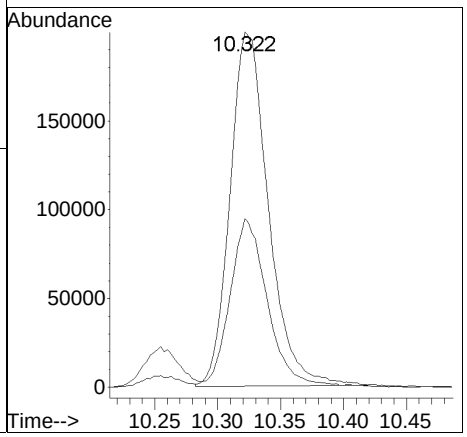


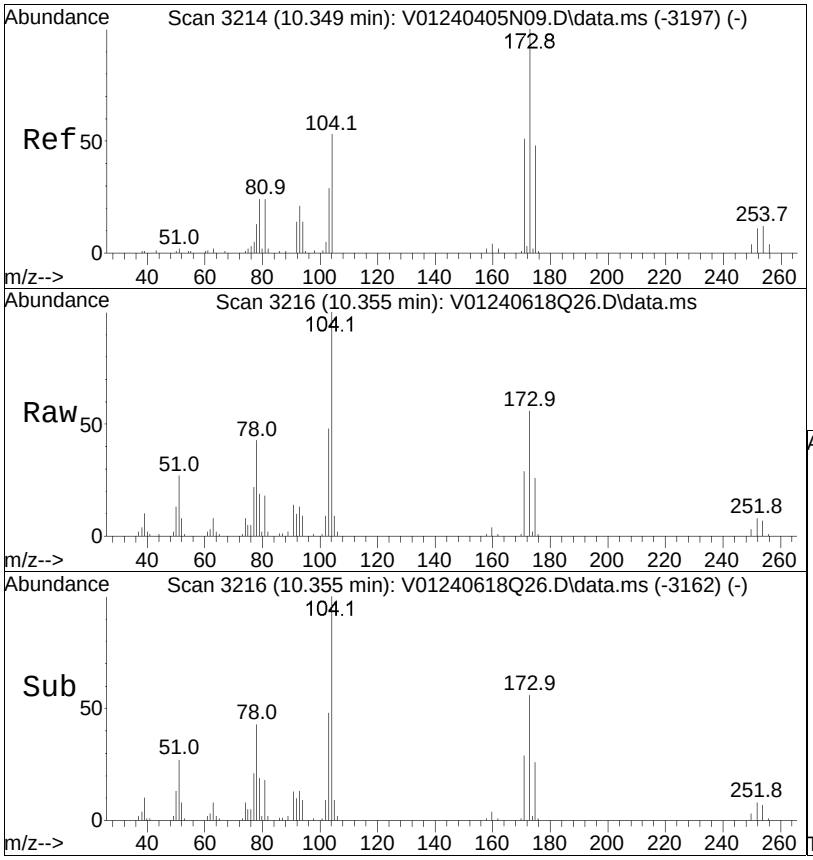


#78
Styrene
Concen: 19.81 ug/L
RT: 10.322 min Scan# 3204
Delta R.T. -0.005 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:104 Resp: 423084

Ion	Ratio	Lower	Upper
104	100		
78	45.1	34.2	51.4

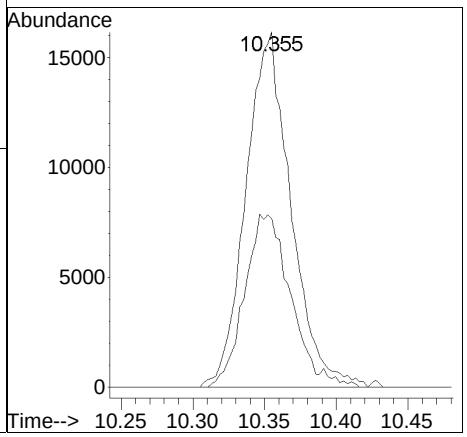


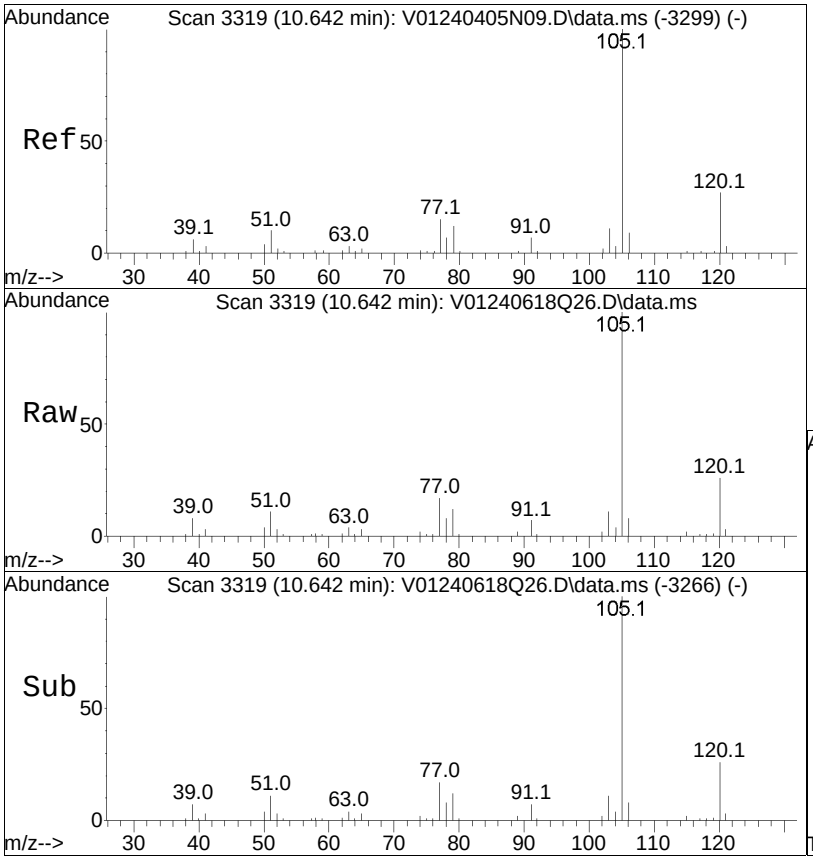


#80
Bromoform
Concen: 8.38 ug/L
RT: 10.355 min Scan# 3216
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:173 Resp: 35323

Ion	Ratio	Lower	Upper
173	100		
175	48.6	28.6	68.6

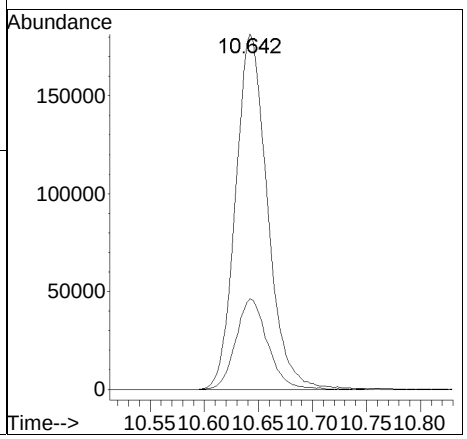


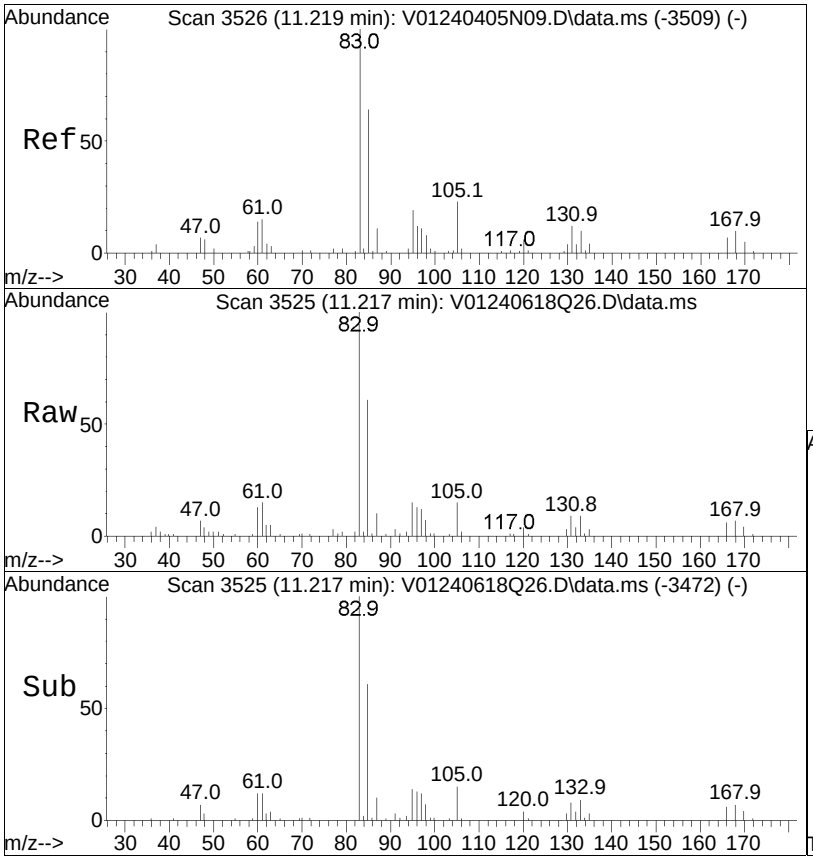


#82
Isopropylbenzene
Concen: 11.12 ug/L
RT: 10.642 min Scan# 3319
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:105 Resp: 372329

Ion	Ratio	Lower	Upper
105	100		
120	25.4	7.3	47.3

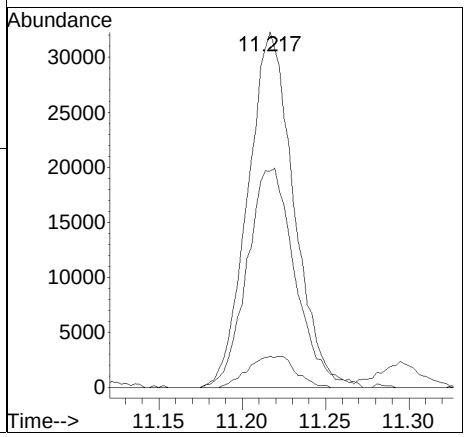


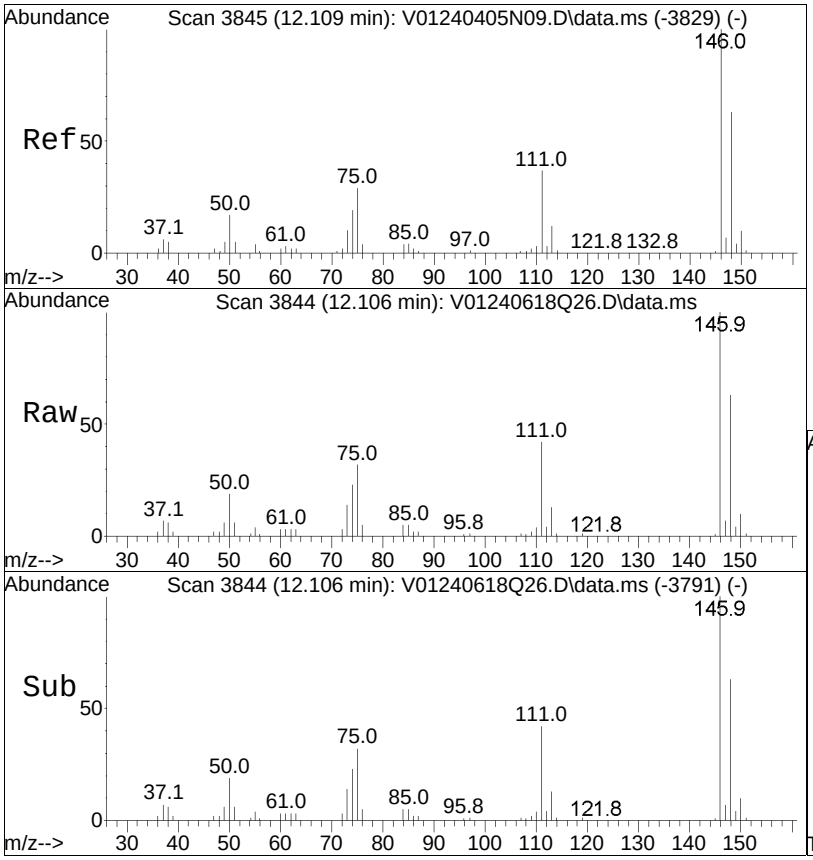


#87
1,1,2,2-Tetrachloroethane
Concen: 11.59 ug/L
RT: 11.217 min Scan# 3525
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion: 83 Resp: 61976

Ion	Ratio	Lower	Upper
83	100		
131	9.1	0.0	30.1
85	64.6	45.8	85.8

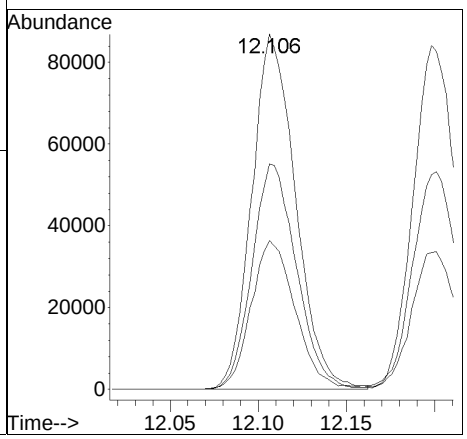


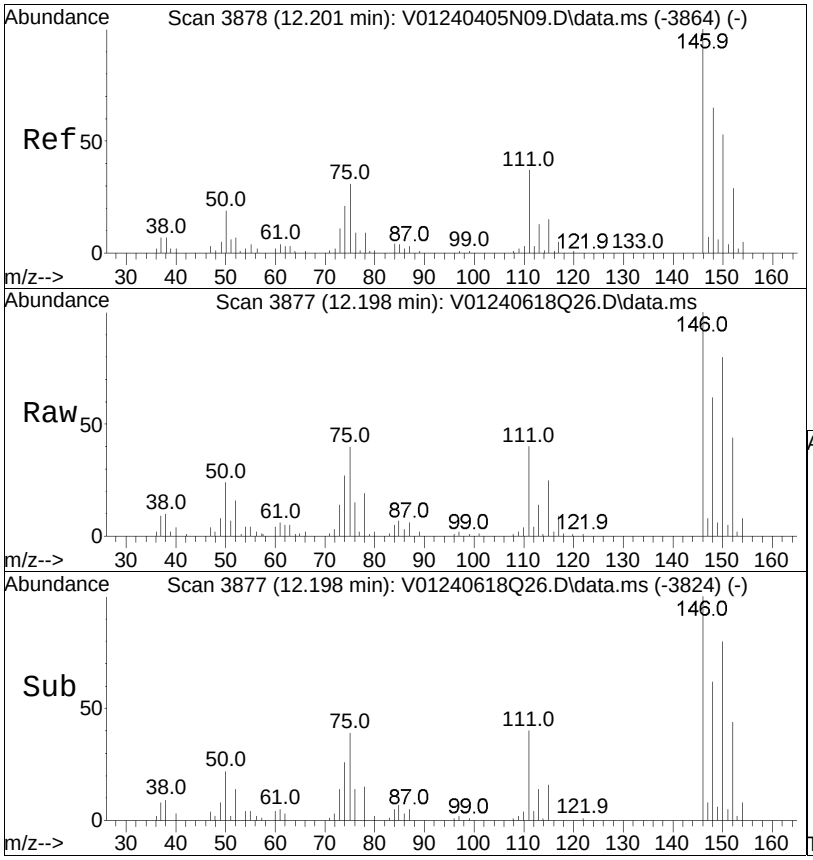


#100
1,3-Dichlorobenzene
Concen: 9.93 ug/L
RT: 12.106 min Scan# 3844
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:146 Resp: 150403

Ion	Ratio	Lower	Upper
146	100		
111	42.3	25.9	53.9
148	64.3	41.5	86.3

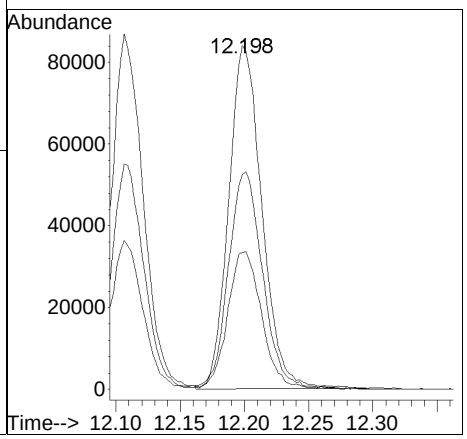


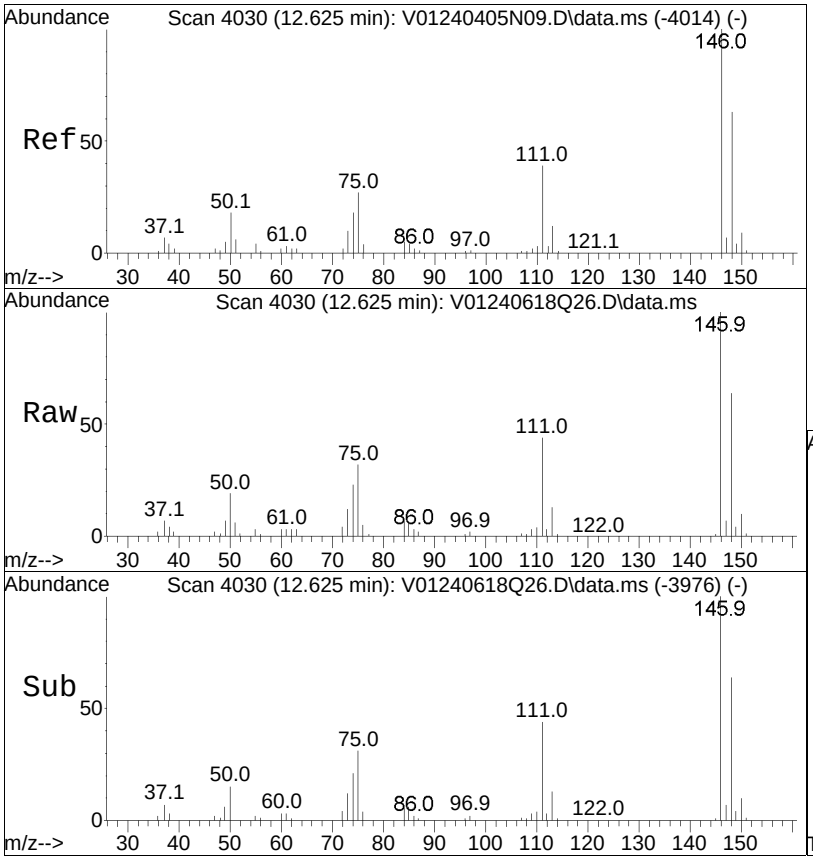


#101
1,4-Dichlorobenzene
Concen: 9.80 ug/L
RT: 12.198 min Scan# 3877
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:146 Resp: 151373

Ion	Ratio	Lower	Upper
146	100		
111	40.2	31.7	47.5
148	65.0	51.5	77.3

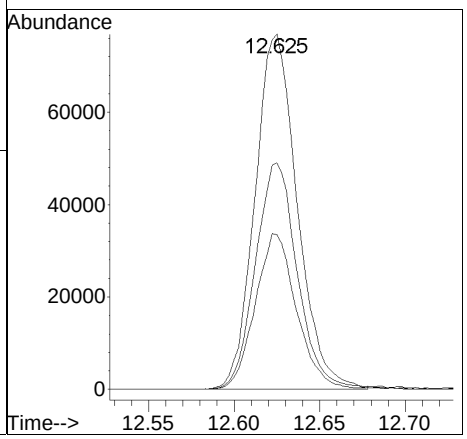


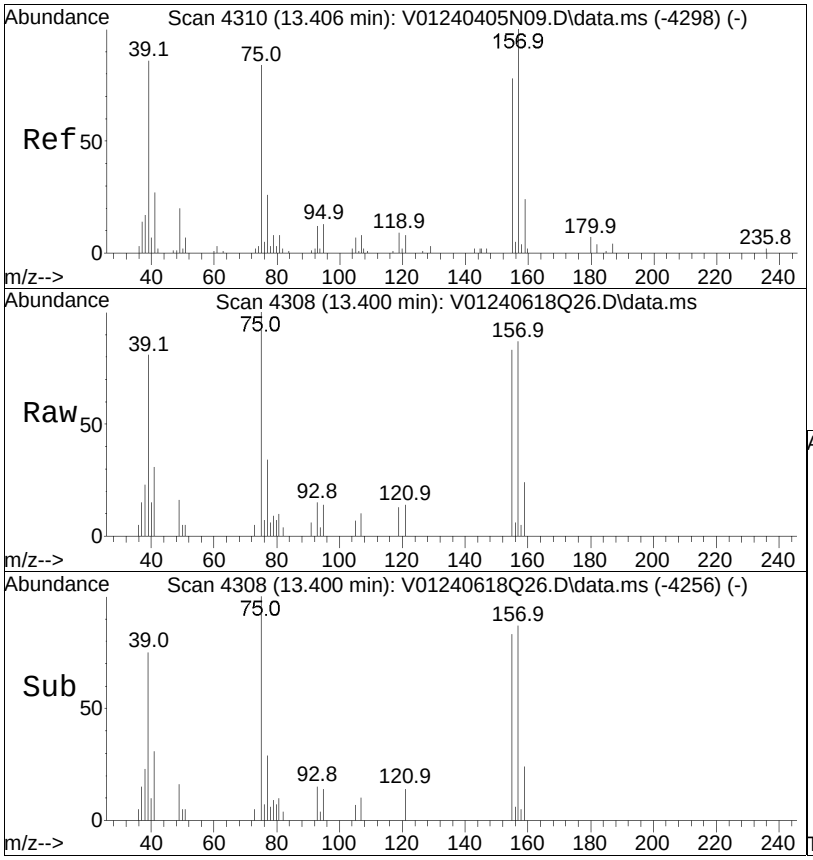


#104
1,2-Dichlorobenzene
Concen: 9.72 ug/L
RT: 12.625 min Scan# 4030
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:146 Resp: 132513

Ion	Ratio	Lower	Upper
146	100		
111	42.7	26.8	55.8
148	63.2	41.6	86.4

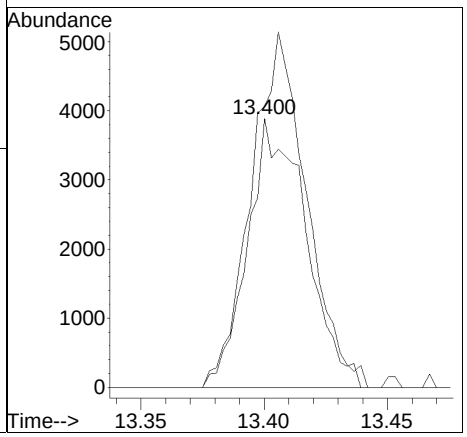


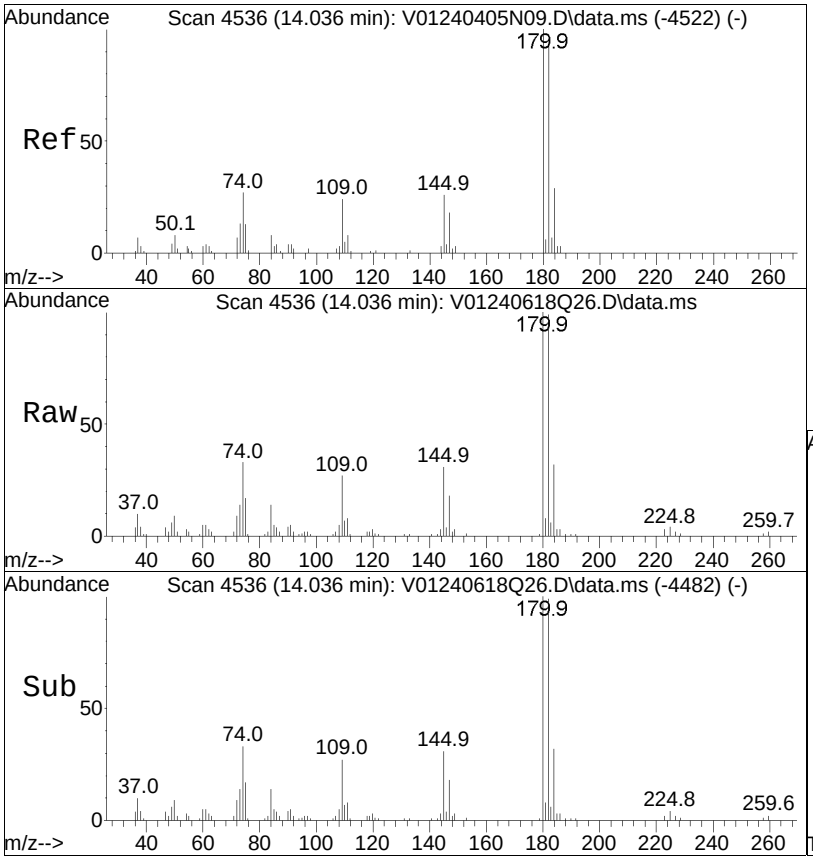


#106
1,2-Dibromo-3-chloropropane
Concen: 7.89 ug/L
RT: 13.400 min Scan# 4308
Delta R.T. -0.006 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:155 Resp: 6371

Ion	Ratio	Lower	Upper
155	100		
157	126.1	101.1	151.7

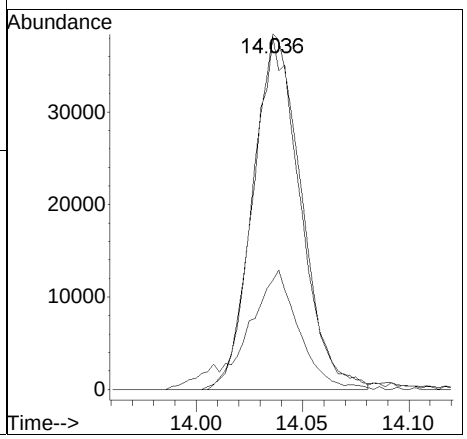


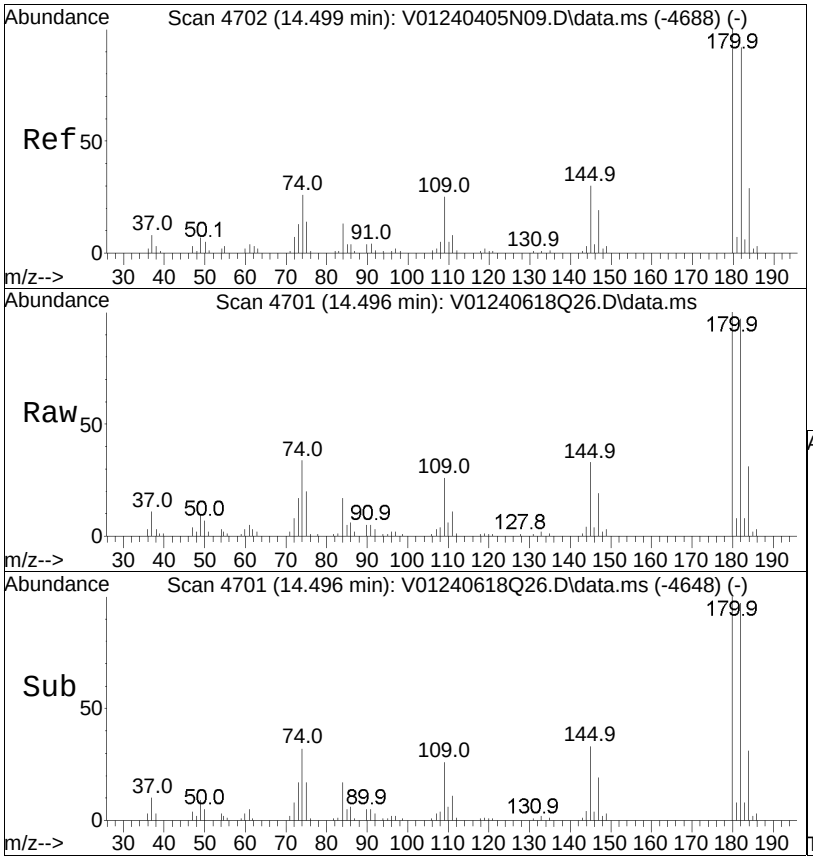


#109
1,2,4-Trichlorobenzene
Concen: 7.59 ug/L
RT: 14.036 min Scan# 4536
Delta R.T. -0.000 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:180 Resp: 61131

Ion	Ratio	Lower	Upper
180	100		
182	96.7	75.8	113.8
145	36.2	26.1	39.1

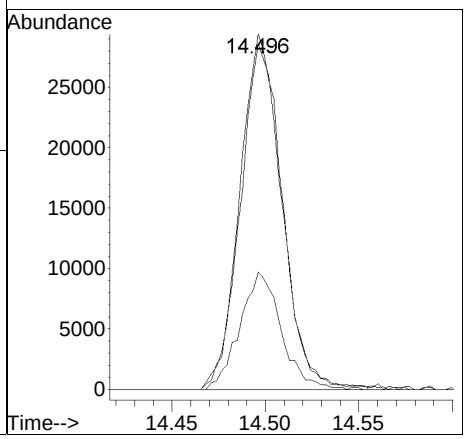




#111
1,2,3-Trichlorobenzene
Concen: 7.36 ug/L
RT: 14.496 min Scan# 4701
Delta R.T. -0.003 min
Lab File: V01240618Q26.D
Acq: 19 Jun 2024 5:54 am

Tgt Ion:180 Resp: 46208

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.4	113.0
145	32.3	25.0	37.6



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 09:55 am

Work Group: WG1936583 for Department: 31 GC/MS - Volatiles

Created: 19-JUN-24 Due: Operator: MAG

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-01	EB_06132024	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-02	DUP_06132024	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-03	PZ-5	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-04	MW-5D	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-05	MW-12S	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-06	MW-12D	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-07	MW-4S	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-08	MW-4D2	S	NYTCL-8260	WATER	DONE	U	0627	0620	S0	Vial-B
L2433375-09	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0625	0620	S0	Vial-B
WG1936583-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1936583-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1936583-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1936583-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1936583-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1936583-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG1936583-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1936583-4	WG1936583-3
WG1936583-6	L2433375-04
WG1936583-7	L2433375-04

Method

Inst: VOA101 BFB: V10391 GC: 8260

Initials: MAG IS/SS: V10396 Autosampler: 8260water

Date: **05/07/24** ICAL: V10408A, V10399 Concentrator: 8260water

Run: **N** ICV: V10412, V10376, V10378, V10411, V10400, V10413 QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE	
1	V01240507NBF1	BFB TUNE	
2	V01240507NBF2	BFB TUNE	
3	V01240507NBF3	BFB TUNE	
1	V01240507N01	BLK	
2	V01240507N02	BLK	
3	V01240507N03	I8260STD0.19PPB	
4	V01240507N04	I8260STD0.19PPB	
5	V01240507N05	I8260STD0.5PPB	
6	V01240507N06	I8260STD0.5PPB	
7	V01240507N07	I8260STD2PPB	
8	V01240507N08	I8260STD10PPB	
9	V01240507N09	I8260STD30PPB	
10	V01240507N10	I8260STD80PPB	
11	V01240507N11	I8260STD120PPB	
12	V01240507N12	I8260STD200PPB	
13	V01240507N13	BLK	
14	V01240507N14	BLK	
15	V01240507N15	BLK	
16	V01240507N16	BLK	
17	V01240507N17	C8260STD10PPB	
18	V01240507N18	C8260STD10PPB	
19	V01240507N19	BLK	
20	V01240507N20	BLK	
21	V01240507N21	BLK	

Inst: VOA101 BFB: V10453 Method GC: 8260
Initials: LAC IS/SS: V10491 Autosampler: 8260water
Date: **06/18/24** ICAL: V10474,V10489,V10450D Concentrator: 8260water
Run: **Q** QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE			
1	V01240618QBF1	BFB TUNE			
1	V01240618Q01	8260 CCAL			
2	V01240618Q02	8260 CCAL			
3	V01240618Q03	AA CCAL			
4	V01240618Q04	AA CCAL			
5	V01240618Q05	BLK			
6	V01240618Q06	METHOD BLK			
7	V01240618Q07	L2432652-01D,31,0.01,10,,A,R3E	8260/ACE,IPA		pH<2
8	V01240618Q08	L2432652-02D,31,0.005,10,,A,R3E	8260/ACE,IPA		pH<2
9	V01240618Q09	L2432652-03D,31,0.01,10,,A,R3E	8260/ACE,IPA		pH<2
10	V01240618Q10	L2433028-01D,31,0.02,10,,A,R3E	8260/ACE,IPA		pH<2
11	V01240618Q11	L2433028-02D,31,0.0025,10,,A,R3E	8260/ACE,IPA		pH<2
12	V01240618Q12	L2433028-03D,31,0.005,10,,A,R3E	8260/ACE,IPA		pH<2
13	V01240618Q13	L2433430-01D,31,0.02,10,,A,R3E	8260/ACE,IPA		pH<2
14	V01240618Q14	L2433430-02D,31,0.0025,10,,A,R3E	8260/ACE,IPA		pH<2
15	V01240618Q15	L2433430-03D,31,0.004,10,,A,R3E	8260/ACE,IPA		pH<2
16	V01240618Q16	L2433375-01,31,10,10,,A	NYCURVE		pH<2
17	V01240618Q17	L2433375-02,31,10,10,,A	NYCURVE		pH<2
18	V01240618Q18	L2433375-03,31,10,10,,A	NYCURVE		pH<2
19	V01240618Q19	L2433375-04,31,10,10,,A	NYCURVE		pH<2
20	V01240618Q20	L2433375-05,31,10,10,,A	NYCURVE		pH<2
21	V01240618Q21	L2433375-06,31,10,10,,A	NYCURVE		pH<2
22	V01240618Q22	L2433375-07,31,10,10,,A	NYCURVE		pH<2
23	V01240618Q23	L2433375-08,31,10,10,,A	NYCURVE		pH<2
24	V01240618Q24	L2433375-09,31,10,10,,A	NYCURVE	TB	pH<2
25	V01240618Q25	L2433375-04MS,31,10,10,,A1	NYCURVE		pH<2
26	V01240618Q26	L2433375-04MSD,31,10,10,,A2	NYCURVE		pH<2

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433375
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
EB_06132024 (L2433375-01)	32	21	75	65	51	75	0
DUP_06132024 (L2433375-02)	4*	10	79	69	6*	70	2
PZ-5 (L2433375-03)	29	24	77	69	37	68	0
MW-5D (L2433375-04)	15*	19	81	72	19	68	1
MW-12S (L2433375-05)	7*	11	66	60	10	69	1
MW-12D (L2433375-06)	11*	15	79	63	17	65	1
MW-4S (L2433375-07)	22	24	69	55	29	59	0
MW-4D2 (L2433375-08)	18*	25	84	64	23	78	1
WG1936733-1BLANK	16*	19	66	61	26	64	1
WG1936733-2LCS	36	32	77	71	65	72	0
WG1936733-3LCSD	43	29	69	66	71	63	0
WG1936908-1BLANK	43	30	71	63	42	62	0
WG1936908-2LCS	36	30	78	67	42	58	0
WG1936908-3LCSD	32	26	74	66	41	61	0
MW-5DMS	22	23	84	71	28	65	0
MW-5DMSD	10*	14	86	76	14	70	1

QC LIMITS

(21-120)	2FP = 2-FLUOROPHENOL
(10-120)	PHL = PHENOL-D6
(23-120)	NBZ = NITROBENZENE-D5
(15-120)	FBP = 2-FLUOROBIPHENYL
(10-120)	TBP = 2,4,6-TRIBROMOPHENOL
(41-149)	TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936733-2 **Analysis Date** : 06/20/24 14:28	**File ID**	: 936733-2
LCSD Sample ID	: WG1936733-3 **Analysis Date** : 06/20/24 14:54	**File ID**	: 936733-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	15.	74	20	13.	64	14	40-140	30
2,4-Dinitrotoluene	20	15.	76	20	15.	74	3	48-143	30
2,6-Dinitrotoluene	20	15.	75	20	14.	69	8	40-140	30
4-Chlorophenyl phenyl ether	20	13.	66	20	12.	58	13	40-140	30
4-Bromophenyl phenyl ether	20	13.	66	20	12.	60	10	40-140	30
Bis(2-chloroisopropyl)ether	20	15.	74	20	14.	69	7	40-140	30
Bis(2-chloroethoxy)methane	20	14.	72	20	14.	68	6	40-140	30
Hexachlorocyclopentadiene	20	8.2	41	20	7.6	38 Q	8	40-140	30
Isophorone	20	13.	65	20	12.	61	6	40-140	30
Nitrobenzene	20	14.	72	20	14.	68	6	40-140	30
NDPA/DPA	20	15.	73	20	13.	66	10	40-140	30
n-Nitrosodi-n-propylamine	20	14.	70	20	13.	65	7	29-132	30
Bis(2-ethylhexyl)phthalate	20	12.	63	20	12.	58	8	40-140	30
Butyl benzyl phthalate	20	14.	70	20	13.	63	11	40-140	30
Di-n-butylphthalate	20	13.	65	20	12.	60	8	40-140	30
Di-n-octylphthalate	20	12.	61	20	12.	58	5	40-140	30
Diethyl phthalate	20	16.	78	20	14.	69	12	40-140	30
Dimethyl phthalate	20	15.	77	20	14.	72	7	40-140	30
Biphenyl	20	12.	61	20	11.	57	7	40-140	30
4-Chloroaniline	20	14.	69	20	12.	60	14	40-140	30
2-Nitroaniline	20	13.	67	20	14.	68	1	52-143	30
3-Nitroaniline	20	15.	74	20	13.	64	14	25-145	30
4-Nitroaniline	20	14.	72	20	12.	63	13	51-143	30
Dibenzofuran	20	14.	68	20	12.	61	11	40-140	30
1,2,4,5-Tetrachlorobenzene	20	11.	54	20	11.	53	2	2-134	30
Acetophenone	20	14.	71	20	13.	64	10	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936733-2 **Analysis Date** : 06/20/24 14:28	**File ID**	: 936733-2
LCSD Sample ID	: WG1936733-3 **Analysis Date** : 06/20/24 14:54	**File ID**	: 936733-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	9.4	47	20	13.	66	34 Q	30-130	30
p-Chloro-m-cresol	20	13.	66	20	12.	62	6	23-97	30
2-Chlorophenol	20	12.	59	20	12.	61	3	27-123	30
2,4-Dichlorophenol	20	12.	63	20	13.	64	2	30-130	30
2,4-Dimethylphenol	20	12.	63	20	11.	57	10	30-130	30
2-Nitrophenol	20	12.	60	20	13.	64	6	30-130	30
4-Nitrophenol	20	4.4	22	20	7.6	38	53 Q	10-80	30
2,4-Dinitrophenol	20	12.	59	20	15.	76	25	20-130	30
4,6-Dinitro-o-cresol	20	11.	54	20	15.	74	31 Q	20-164	30
Phenol	20	6.4	32	20	6.2	31	3	12-110	30
2-Methylphenol	20	12.	58	20	10.	53	9	30-130	30
3-Methylphenol/4-Methylphenol	20	12.	61	20	11.	57	7	30-130	30
2,4,5-Trichlorophenol	20	11.	54	20	14.	71	27	30-130	30
Carbazole	20	14.	70	20	13.	66	6	55-144	30
Atrazine	20	16.	78	20	14.	70	11	40-140	30
Benzaldehyde	20	13.	66	20	12.	60	10	40-140	30
Caprolactam	20	3.8	19	20	3.6	18	5	10-130	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936908-2 Analysis Date : 06/21/24 04:57	**File ID**	: 936908-2
LCSD Sample ID	: WG1936908-3 Analysis Date : 06/21/24 05:22	**File ID**	: 936908-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	13.	65	20	13.	67	3	40-140	30
2,4-Dinitrotoluene	20	14.	70	20	14.	71	1	48-143	30
2,6-Dinitrotoluene	20	13.	65	20	14.	68	5	40-140	30
4-Chlorophenyl phenyl ether	20	13.	66	20	14.	70	6	40-140	30
4-Bromophenyl phenyl ether	20	12.	61	20	13.	66	8	40-140	30
Bis(2-chloroisopropyl)ether	20	15.	77	20	15.	74	4	40-140	30
Bis(2-chloroethoxy)methane	20	14.	72	20	14.	68	6	40-140	30
Hexachlorocyclopentadiene	20	9.9	50	20	9.7	48	4	40-140	30
Isophorone	20	13.	67	20	13.	65	3	40-140	30
Nitrobenzene	20	15.	75	20	14.	72	4	40-140	30
NDPA/DPA	20	13.	66	20	14.	71	7	40-140	30
n-Nitrosodi-n-propylamine	20	14.	72	20	14.	69	4	29-132	30
Bis(2-ethylhexyl)phthalate	20	13.	63	20	13.	66	5	40-140	30
Butyl benzyl phthalate	20	13.	67	20	14.	69	3	40-140	30
Di-n-butylphthalate	20	12.	60	20	13.	63	5	40-140	30
Di-n-octylphthalate	20	13.	66	20	14.	68	3	40-140	30
Diethyl phthalate	20	13.	67	20	14.	71	6	40-140	30
Dimethyl phthalate	20	13.	66	20	13.	66	0	40-140	30
Biphenyl	20	12.	63	20	12.	63	0	40-140	30
4-Chloroaniline	20	12.	58	20	12.	58	0	40-140	30
2-Nitroaniline	20	13.	66	20	14.	68	3	52-143	30
3-Nitroaniline	20	14.	68	20	14.	73	7	25-145	30
4-Nitroaniline	20	13.	63	20	13.	66	5	51-143	30
Dibenzofuran	20	13.	66	20	14.	70	6	40-140	30
1,2,4,5-Tetrachlorobenzene	20	12.	58	20	12.	58	0	2-134	30
Acetophenone	20	14.	70	20	13.	67	4	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936908-2 **Analysis Date** : 06/21/24 04:57	**File ID**	: 936908-2
LCSD Sample ID	: WG1936908-3 **Analysis Date** : 06/21/24 05:22	**File ID**	: 936908-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	9.3	47	20	8.2	41	14	30-130	30
p-Chloro-m-cresol	20	12.	61	20	11.	57	7	23-97	30
2-Chlorophenol	20	9.8	49	20	8.8	44	11	27-123	30
2,4-Dichlorophenol	20	9.8	49	20	8.8	44	11	30-130	30
2,4-Dimethylphenol	20	12.	59	20	11.	56	5	30-130	30
2-Nitrophenol	20	9.8	49	20	8.6	43	13	30-130	30
4-Nitrophenol	20	5.8	29	20	5.7	28	4	10-80	30
2,4-Dinitrophenol	20	11.	54	20	10.	52	4	20-130	30
4,6-Dinitro-o-cresol	20	11.	53	20	10.	52	2	20-164	30
Phenol	20	6.2	31	20	5.2	26	18	12-110	30
2-Methylphenol	20	12.	60	20	11.	56	7	30-130	30
3-Methylphenol/4-Methylphenol	20	12.	61	20	11.	56	9	30-130	30
2,4,5-Trichlorophenol	20	9.1	45	20	8.6	43	5	30-130	30
Carbazole	20	13.	64	20	13.	66	3	55-144	30
Atrazine	20	13.	64	20	14.	68	6	40-140	30
Benzaldehyde	20	13.	65	20	13.	64	2	40-140	30
Caprolactam	20	5.2	26	20	5.3	26	0	10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/21/24 11:18
Matrix Spike	: WG1936908-4	**MS Analysis Date**	: 06/21/24 10:26
Matrix Spike Dup	: WG1936908-5	**MSD Analysis Date**	: 06/21/24 10:52

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	ND	20	15.	75	20	17.	85	13	40-140	30
2,4-Dinitrotoluene	ND	20	14.	70	20	16.	80	13	48-143	30
2,6-Dinitrotoluene	ND	20	15.	75	20	16.	80	6	40-140	30
4-Chlorophenyl phenyl ether	ND	20	13.	65	20	15.	75	14	40-140	30
4-Bromophenyl phenyl ether	ND	20	13.	65	20	15.	75	14	40-140	30
Bis(2-chloroisopropyl)ether	ND	20	16.	80	20	17.	85	6	40-140	30
Bis(2-chloroethoxy)methane	ND	20	15.	75	20	16.	80	6	40-140	30
Hexachlorocyclopentadiene	ND	20	12.J	60	20	12.J	60	0	40-140	30
Isophorone	ND	20	14.	70	20	15.	75	7	40-140	30
Nitrobenzene	ND	20	16.	80	20	16.	80	0	40-140	30
NDPA/DPA	ND	20	14.	70	20	16.	80	13	40-140	30
n-Nitrosodi-n-propylamine	ND	20	15.	75	20	16.	80	6	29-132	30
Bis(2-ethylhexyl)phthalate	ND	20	14.	70	20	15.	75	7	40-140	30
Butyl benzyl phthalate	ND	20	15.	75	20	16.	80	6	40-140	30
Di-n-butylphthalate	ND	20	14.	70	20	15.	75	7	40-140	30
Di-n-octylphthalate	ND	20	15.	75	20	15.	75	0	40-140	30
Diethyl phthalate	1.4J	20	14.	70	20	16.	80	13	40-140	30
Dimethyl phthalate	ND	20	14.	70	20	15.	75	7	40-140	30
Biphenyl	ND	20	13.	65	20	14.	70	7	40-140	30
4-Chloroaniline	ND	20	12.	60	20	12.	60	0	40-140	30
2-Nitroaniline	ND	20	14.	70	20	16.	80	13	52-143	30
3-Nitroaniline	ND	20	14.	70	20	16.	80	13	25-145	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/21/24 11:18
Matrix Spike	: WG1936908-4	**MS Analysis Date**	: 06/21/24 10:26
Matrix Spike Dup	: WG1936908-5	**MSD Analysis Date**	: 06/21/24 10:52

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
4-Nitroaniline	ND	20	13.	65		20	15.	75		14	51-143	30
Dibenzofuran	ND	20	14.	70		20	16.	80		13	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	20	13.	65		20	13.	65		0	2-134	30
Acetophenone	ND	20	15.	75		20	16.	80		6	39-129	30
2,4,6-Trichlorophenol	ND	20	5.5	28	Q	20	2.7J	14	Q	68 Q	30-130	30
p-Chloro-m-cresol	ND	20	12.	60		20	10.	50		18	23-97	30
2-Chlorophenol	ND	20	7.8	39		20	3.8	19	Q	69 Q	27-123	30
2,4-Dichlorophenol	ND	20	7.7	39		20	3.8J	19	Q	68 Q	30-130	30
2,4-Dimethylphenol	ND	20	13.	65		20	11.	55		17	30-130	30
2-Nitrophenol	ND	20	7.1J	36		20	3.4J	17	Q	70 Q	30-130	30
4-Nitrophenol	ND	20	3.6J	18		20	2.4J	12		40 Q	10-80	30
2,4-Dinitrophenol	ND	20	ND	0	Q	20	ND	0	Q	NC	20-130	30
4,6-Dinitro-o-cresol	ND	20	7.9J	40		20	7.0J	35		12	20-164	30
Phenol	1.9J	20	6.2	31		20	3.5J	18		56 Q	12-110	30
2-Methylphenol	ND	20	12.	60		20	10.	50		18	30-130	30
3-Methylphenol/4-Methylphenol	ND	20	11.	55		20	9.5	48		15	30-130	30
2,4,5-Trichlorophenol	ND	20	6.3	32		20	3.0J	15	Q	71 Q	30-130	30
Carbazole	ND	20	14.	70		20	15.	75		7	55-144	30
Atrazine	ND	20	14.	70		20	16.	80		13	40-140	30
Benzaldehyde	ND	20	14.	70		20	15.	75		7	40-140	30
Caprolactam	ND	20	6.2J	31		20	6.4J	32		3	10-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936733-1	**Lab File ID**	: 936733-1
Instrument ID	: SV107	**Extraction Date**	: 06/19/24
Matrix	: WATER	**Analysis Date**	: 06/20/24 14:02
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1936733-2LCS	WG1936733-2	06/20/24 14:28
WG1936733-3LCSD	WG1936733-3	06/20/24 14:54
EB_06132024	L2433375-01	06/20/24 17:31
MW-12S	L2433375-05	06/20/24 18:49
DUP_06132024	L2433375-02	06/20/24 20:33
MW-12D	L2433375-06	06/20/24 20:58
MW-4S	L2433375-07	06/20/24 21:24
MW-4D2	L2433375-08	06/20/24 21:50

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936908-1	**Lab File ID**	: 936908-1
Instrument ID	: SV107	**Extraction Date**	: 06/20/24
Matrix	: WATER	**Analysis Date**	: 06/21/24 04:32
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1936908-2LCS	WG1936908-2	06/21/24 04:57
WG1936908-3LCSD	WG1936908-3	06/21/24 05:22
MW-5DMS	WG1936908-4	06/21/24 10:26
MW-5DMSD	WG1936908-5	06/21/24 10:52
MW-5D	L2433375-04	06/21/24 11:18
PZ-5	L2433375-03	06/21/24 20:30

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/02/24 19:09
Tune Standard	: R1836615-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44
197	Less than 2.0% of mass 198	0.8
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.3
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	82
443	15.0 - 24.0% of mass 442	16.6 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1836615-11	ABNL9	06/02/24 19:34
ABNL8	R1836615-10	ABNL8	06/02/24 19:59
ABNL7	R1836615-9	ABNL7	06/02/24 20:24
ABNL6	R1836615-8	ABNL6	06/02/24 20:50
ABNL5	R1836615-7	ABNL5	06/02/24 21:15
ABNL4	R1836615-6	ABNL4	06/02/24 21:40
ABNL3	R1836615-5	ABNL3	06/02/24 22:05
ABNL2	R1836615-4	ABNL2	06/02/24 22:30
ABNL1	R1836615-3	ABNL1	06/02/24 22:56
AP9L9	R1836615-29	AP9L9	06/02/24 23:21
AP9L8	R1836615-28	AP9L8	06/02/24 23:47
AP9L7	R1836615-27	AP9L7	06/03/24 00:12
AP9L6	R1836615-25	AP9L6	06/03/24 00:37
AP9L5	R1836615-26	AP9L5	06/03/24 01:08
AP9L4	R1836615-24	AP9L4	06/03/24 01:33
AP9L3	R1836615-23	AP9L3	06/03/24 01:58
AP9L2	R1836615-22	AP9L2	06/03/24 02:23
AP9L1	R1836615-21	AP9L1	06/03/24 02:49
ABN ICV Quant Report	R1836615-30	ABNICV	06/03/24 03:14
AP9 ICV Quant Report	R1836615-32	AP9ICV	06/03/24 03:39

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/03/24 04:04
Tune Standard	: R1836615-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.1
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.3
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	89.8
443	15.0 - 24.0% of mass 442	17.6 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1836615-20	ADPL9	06/03/24 04:29
ADPL8	R1836615-19	ADPL8	06/03/24 04:54
ADPL7	R1836615-18	ADPL7	06/03/24 05:19
ADPL6	R1836615-17	ADPL6	06/03/24 05:45
ADPL5	R1836615-16	ADPL5	06/03/24 06:10
ADPL4	R1836615-15	ADPL4	06/03/24 06:35
ADPL3	R1836615-14	ADPL3	06/03/24 07:00
ADPL2	R1836615-13	ADPL2	06/03/24 07:25
ADPL1	R1836615-12	ADPL1	06/03/24 07:50
ADP ICV Quant Report	R1836615-31	ADPICV	06/03/24 08:15

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/20/24 12:18
Tune Standard	: WG1937154-1	**Tune File ID**	: DEG0620_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	33.9
68	Less than 2.0% of mass 69	0.5 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	42.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	20.7
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.7
442	Base Peak, or >50% of mass 198	87.5
443	15.0 - 24.0% of mass 442	17.5 (20.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1937154-6TFACTOR-B	WG1937154-6	DEG0620	06/20/24 12:18
WG1937154-7TFACTOR-P	WG1937154-7	DEG0620	06/20/24 12:18
WG1937154-3CCAL	WG1937154-3	ABN0620	06/20/24 12:44
WG1937154-4CCAL	WG1937154-4	AP90620	06/20/24 13:10
WG1937154-5CCAL	WG1937154-5	ADP0620	06/20/24 13:36
WG1936733-1BLANK	WG1936733-1	936733-1	06/20/24 14:02
WG1936733-2LCS	WG1936733-2	936733-2	06/20/24 14:28
WG1936733-3LCSD	WG1936733-3	936733-3	06/20/24 14:54
EB_06132024	L2433375-01	33375-01	06/20/24 17:31
MW-12S	L2433375-05	33375-05	06/20/24 18:49
DUP_06132024	L2433375-02	33375-02	06/20/24 20:33
MW-12D	L2433375-06	33375-06	06/20/24 20:58
MW-4S	L2433375-07	33375-07	06/20/24 21:24
MW-4D2	L2433375-08	33375-08	06/20/24 21:50

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/21/24 01:34
Tune Standard	: WG1937320-1	**Tune File ID**	: DEG0620n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.6
68	Less than 2.0% of mass 69	0.5 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	44.3
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	20.6
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	17.5
442	Base Peak, or >50% of mass 198	82.5
443	15.0 - 24.0% of mass 442	16.1 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1937320-6TFACTOR-P	WG1937320-6	DEG0620N	06/21/24 01:34
WG1937320-7TFACTOR-B	WG1937320-7	DEG0620N	06/21/24 01:34
WG1937320-3CCAL	WG1937320-3	ABN0620N	06/21/24 02:00
WG1937320-4CCAL	WG1937320-4	AP90620N	06/21/24 02:25
WG1937320-5CCAL	WG1937320-5	ADP0620N	06/21/24 02:51
WG1936908-1BLANK	WG1936908-1	936908-1	06/21/24 04:32
WG1936908-2LCS	WG1936908-2	936908-2	06/21/24 04:57
WG1936908-3LCSD	WG1936908-3	936908-3	06/21/24 05:22
WG1936908-4MS	WG1936908-4	936908-4	06/21/24 10:26
WG1936908-5MSD	WG1936908-5	936908-5	06/21/24 10:52
MW-5D	L2433375-04	33375-04	06/21/24 11:18

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/21/24 15:00
Tune Standard	: WG1937738-1	**Tune File ID**	: DEG0621_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.9
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	44.4
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	20.1
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than 24% of mass 442	17.7
442	Base Peak, or >50% of mass 198	75.1
443	15.0 - 24.0% of mass 442	15.1 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1937738-6TFACTOR-B	WG1937738-6	DEG0621	06/21/24 15:00
WG1937738-7TFACTOR-P	WG1937738-7	DEG0621	06/21/24 15:00
WG1937738-3CCAL	WG1937738-3	ABN0621	06/21/24 15:25
WG1937738-4CCAL	WG1937738-4	AP90621	06/21/24 15:51
WG1937738-5CCAL	WG1937738-5	ADP0621	06/21/24 16:17
PZ-5	L2433375-03	33375-03	06/21/24 20:30

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/20/24 12:44:00
Sample No	: WG1937154-3	**Lab File ID**	: ABN0620

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1937154-3	64596	6.02	242090	7.49	156189	9.27
Upper Limit	129192	6.52	484180	7.99	312378	9.77
Lower Limit	32298	5.52	121045	6.99	78095	8.77
Sample ID						
WG1937154-4 CCAL	62418	6.02	232012	7.49	146718	9.26
WG1937154-5 CCAL	57965	6.02	-	-	132297	9.27
WG1936733-1 BLANK	59482	6.02	218998	7.49	128173	9.26
WG1936733-2 LCS	59133	6.02	218767	7.49	134097	9.27
WG1936733-3 LCSD	62409	6.02	225354	7.49	142880	9.27
EB_06132024	59311	6.02	215702	7.49	134600	9.27
MW-12S	59871	6.02	216886	7.49	136591	9.27
DUP_06132024	67682	6.02	257940	7.49	167134	9.27
MW-12D	66505	6.02	256157	7.49	164190	9.27
MW-4S	65595	6.02	251109	7.49	155253	9.27
MW-4D2	62361	6.02	237908	7.49	154609	9.27

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/20/24 12:44:00
Sample No	: WG1937154-3	**Lab File ID**	: ABN0620

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1937154-3	313744	10.70	264835	13.30	258064	14.75
Upper Limit	627488	11.20	529670	13.80	516128	15.25
Lower Limit	156872	10.20	132418	12.80	129032	14.25
Sample ID						
WG1937154-4 CCAL	327464	10.70	-	-	-	-
WG1937154-5 CCAL	294448	10.70	-	-	-	-
WG1936733-1 BLANK	276748	10.70	213524	13.30	215115	14.75
WG1936733-2 LCS	288161	10.70	235434	13.30	224788	14.75
WG1936733-3 LCSD	302027	10.70	240604	13.30	238254	14.75
EB_06132024	284351	10.70	238980	13.30	244513	14.75
MW-12S	300070	10.70	241711	13.30	248005	14.75
DUP_06132024	359643	10.70	287664	13.30	303762	14.75
MW-12D	353843	10.70	283499	13.30	276153	14.75
MW-4S	325466	10.70	262104	13.30	270548	14.74
MW-4D2	335245	10.70	270497	13.30	267633	14.75

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/21/24 02:00:00
Sample No	: WG1937320-3	**Lab File ID**	: ABN0620N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1937320-3	64707	5.95	235755	7.44	141034	9.22
Upper Limit	129414	6.45	471510	7.94	282068	9.72
Lower Limit	32354	5.45	117878	6.94	70517	8.72
Sample ID						
WG1937320-4 CCAL	64708	5.95	235329	7.44	132909	9.22
WG1937320-5 CCAL	67896	5.95	-	-	134249	9.22
WG1936908-1 BLANK	64841	5.95	236732	7.44	138468	9.22
WG1936908-2 LCS	63928	5.95	235581	7.44	142287	9.22
WG1936908-3 LCSD	65250	5.95	238638	7.44	140582	9.22
MW-5D MS	68309	5.95	250044	7.44	156602	9.22
MW-5D MSD	69889	5.95	255276	7.44	153274	9.22
MW-5D	67218	5.95	244312	7.44	152116	9.22

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/21/24 02:00:00
Sample No	: WG1937320-3	**Lab File ID**	: ABN0620N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1937320-3	276864	10.65	231677	13.25	238143	14.68
Upper Limit	553728	11.15	463354	13.75	476286	15.18
Lower Limit	138432	10.15	115839	12.75	119072	14.18
Sample ID						
WG1937320-4 CCAL	268104	10.65	-	-	-	-
WG1937320-5 CCAL	271047	10.65	-	-	-	-
WG1936908-1 BLANK	280893	10.65	214665	13.25	215459	14.69
WG1936908-2 LCS	283733	10.65	224985	13.25	229661	14.69
WG1936908-3 LCSD	287195	10.65	229831	13.25	222148	14.69
MW-5D MS	311131	10.65	250391	13.25	254446	14.70
MW-5D MSD	312307	10.65	257585	13.25	255461	14.70
MW-5D	306232	10.65	242603	13.25	273699	14.70

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/21/24 15:25:00
Sample No	: WG1937738-3	**Lab File ID**	: ABN0621

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1937738-3	66483	5.93	248398	7.42	154514	9.20
Upper Limit	132966	6.43	496796	7.92	309028	9.70
Lower Limit	33242	5.43	124199	6.92	77257	8.70
Sample ID						
WG1937738-4 CCAL	63614	5.93	233983	7.42	143096	9.20
WG1937738-5 CCAL	60062	5.93	-	-	133240	9.19
PZ-5	62988	5.93	232160	7.42	136966	9.19

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/21/24 15:25:00
Sample No	: WG1937738-3	**Lab File ID**	: ABN0621

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1937738-3	316410	10.62	283013	13.22	281875	14.65
Upper Limit	632820	11.12	566026	13.72	563750	15.15
Lower Limit	158205	10.12	141507	12.72	140938	14.15
Sample ID						
WG1937738-4 CCAL	304163	10.62	-	-	-	-
WG1937738-5 CCAL	282406	10.62	-	-	-	-
PZ-5	281580	10.62	235204	13.21	249670	14.65

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 03/07/23
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File: PM14022-1
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ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 17:31
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-01	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 17:31
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-01	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.4	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:33
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-02	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:33
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-02	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/21/24 20:30
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-03	**Analyst**	: CMM
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/21/24 20:30
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-03	**Analyst**	: CMM
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.1	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/21/24 11:18
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-04	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	1.4	5.0	0.76	J
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/21/24 11:18
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-04	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	1.9	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 18:49
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-05	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.9	3.0	1.4	J
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 18:49
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-05	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	0.80	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:58
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-06	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:58
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-06	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	1.8	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 21:24
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-07	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 21:24
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-07	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.2	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 21:50
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-08	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 21:50
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33375-08	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	1.2	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936733-1	**Date Collected**	: NA
Client ID	: WG1936733-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 14:02
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 936733-1	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936733-1	**Date Collected**	: NA
Client ID	: WG1936733-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 14:02
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 936733-1	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936908-1	**Date Collected**	: NA
Client ID	: WG1936908-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/21/24 04:32
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 936908-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936908-1	**Date Collected**	: NA
Client ID	: WG1936908-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/21/24 04:32
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 936908-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-01.D
Acq On : 20 Jun 2024 5:31 pm
Operator : SV107:ljg
Sample : L2433375-01,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 06:34:48 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 17:51:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	59311	4.000	ug/ml	0.00
Standard Area 1 = 64596			Recovery = 91.82%			
27) IS2_1,4-Dichlorobenzen...	6.016	152	59311	4.000	ug/ml	0.00
Standard Area 3 = 62418			Recovery = 95.02%			
34) IS1_Naphthalene-d8	7.492	136	215702	4.000	ug/ml	0.00
Standard Area 1 = 242090			Recovery = 89.10%			
54) IS2_Naphthalene-d8	7.492	136	215702	4.000	ug/ml	0.00
Standard Area 3 = 232012			Recovery = 92.97%			
62) IS1_Acenaphthene-d10	9.269	164	134600	4.000	ug/ml	0.00
Standard Area 1 = 156189			Recovery = 86.18%			
82) IS2_Acenaphthene-d10	9.269	164	134600	4.000	ug/ml	0.00
Standard Area 3 = 146718			Recovery = 91.74%			
85) IS3_Acenaphthene-d10	9.269	164	134600	4.000	ug/ml	0.00
Standard Area 2 = 132297			Recovery = 101.74%			
87) IS1_Phenanthrene-d10	10.698	188	284351	4.000	ug/ml	0.00
Standard Area 1 = 313744			Recovery = 90.63%			
99) IS3_Phenanthrene-d10	10.698	188	284351	4.000	ug/ml	0.00
Standard Area 2 = 294448			Recovery = 96.57%			
103) IS1_Chrysene-d12	13.304	240	238980	4.000	ug/ml	0.00
Standard Area 1 = 264835			Recovery = 90.24%			
112) IS1_Perylene-d12	14.751	264	244513	4.000	ug/ml	0.00
Standard Area 1 = 258064			Recovery = 94.75%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.716	112	10277	0.648	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 32.40%			
7) Phenol-d6	5.646	99	8333	0.425	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.25%			
19) Nitrobenzene-d5	6.710	82	12935	0.749	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.90%			
45) 2-Fluorobiphenyl	8.634	172	30246	0.648	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.80%			
78) 2,4,6-Tribromophenol	10.033	330	5841	1.018	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.90%			
95) 4-Terphenyl-d14	12.280	244	46678	0.750	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 75.00%			

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-01.D
Acq On : 20 Jun 2024 5:31 pm
Operator : SV107:ljg
Sample : L2433375-01,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 06:34:48 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 17:51:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.663	94	5077	0.238	ug/ml	92
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-01.D
Acq On : 20 Jun 2024 5:31 pm
Operator : SV107:ljg
Sample : L2433375-01,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 06:34:48 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 17:51:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

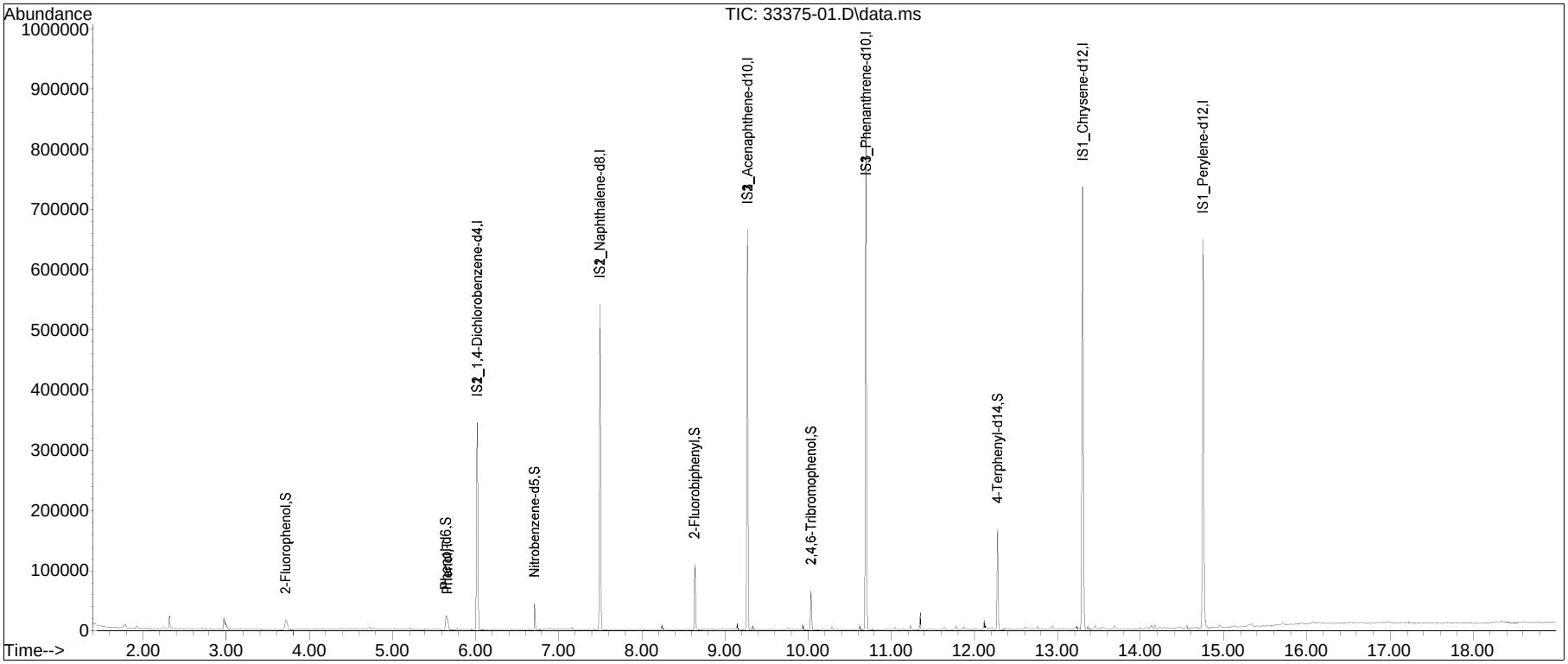
(#) = qualifier out of range (m) = manual integration (+) = signals summed

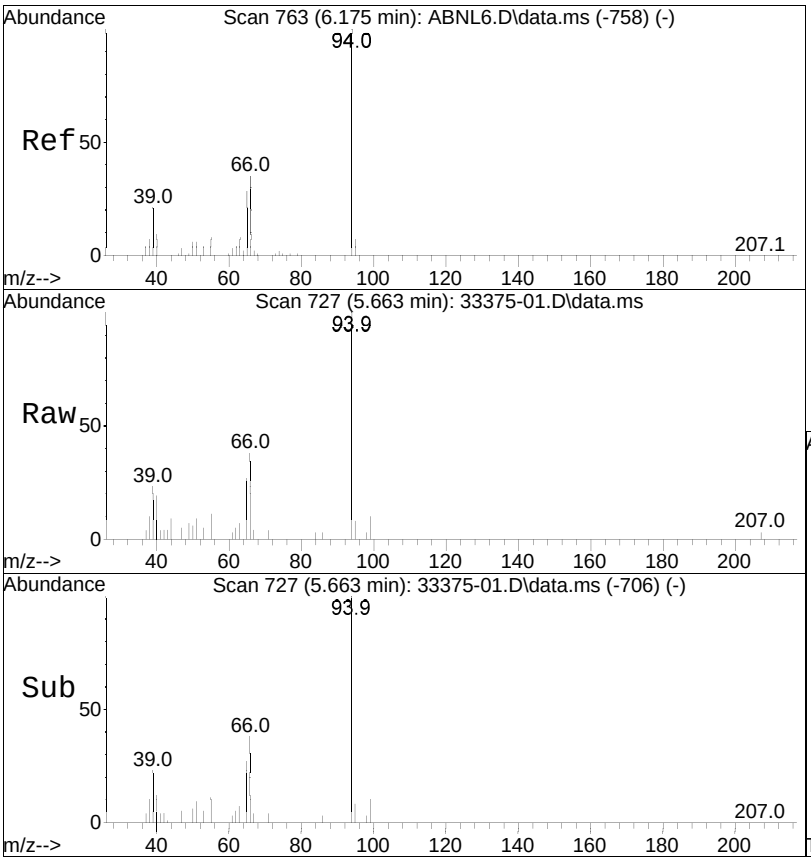
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-01.D
Acq On : 20 Jun 2024 5:31 pm
Operator : SV107:ljg
Sample : L2433375-01,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 06:34:48 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 17:51:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90620.D•

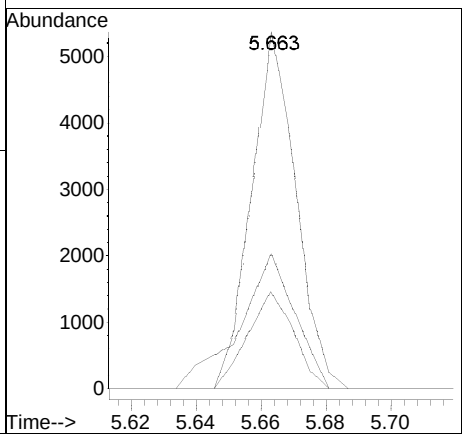




#8
Phenol
Concen: 0.24 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. 0.000 min
Lab File: 33375-01.D
Acq: 20 Jun 2024 5:31 pm

Tgt Ion: 94 Resp: 5077

Ion	Ratio	Lower	Upper
94	100		
65	28.2	26.0	39.0
66	47.3	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33375-01.D	Operator	: SV107:ljg
Date Inj'd	: 6/20/2024 5:31 pm	Instrument	: SV107
Sample	: L2433375-01,32,,HNY	Quant Date	: 6/20/2024 5:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-05.D
Acq On : 20 Jun 2024 6:49 pm
Operator : SV107:mrg
Sample : L2433375-05,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 22:17:52 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 19:09:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.016	152	59871	4.000 ug/ml	0.00
Standard Area 1 = 64596			Recovery = 92.69%		
27) IS2_1,4-Dichlorobenzen...	6.016	152	59871	4.000 ug/ml	0.00
Standard Area 3 = 62418			Recovery = 95.92%		
34) IS1_Naphthalene-d8	7.492	136	216886	4.000 ug/ml	0.00
Standard Area 1 = 242090			Recovery = 89.59%		
54) IS2_Naphthalene-d8	7.492	136	216886	4.000 ug/ml	0.00
Standard Area 3 = 232012			Recovery = 93.48%		
62) IS1_Acenaphthene-d10	9.269	164	136591	4.000 ug/ml	0.00
Standard Area 1 = 156189			Recovery = 87.45%		
82) IS2_Acenaphthene-d10	9.269	164	136591	4.000 ug/ml	0.00
Standard Area 3 = 146718			Recovery = 93.10%		
85) IS3_Acenaphthene-d10	9.269	164	136591	4.000 ug/ml	0.00
Standard Area 2 = 132297			Recovery = 103.25%		
87) IS1_Phenanthrene-d10	10.698	188	300070	4.000 ug/ml	0.00
Standard Area 1 = 313744			Recovery = 95.64%		
99) IS3_Phenanthrene-d10	10.698	188	300070	4.000 ug/ml	# 0.00
Standard Area 2 = 294448			Recovery = 101.91%		
103) IS1_Chrysene-d12	13.304	240	241711	4.000 ug/ml	0.00
Standard Area 1 = 264835			Recovery = 91.27%		
112) IS1_Perylene-d12	14.751	264	248005M2	4.000 ug/ml	0.00
Standard Area 1 = 258064			Recovery = 96.10%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.722	112	2264	0.141 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 7.05%#		
7) Phenol-d6	5.645	99	4311	0.218 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.90%#		
19) Nitrobenzene-d5	6.710	82	11575	0.664 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.40%		
45) 2-Fluorobiphenyl	8.633	172	28225	0.601 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.10%		
78) 2,4,6-Tribromophenol	10.033	330	1153	0.198 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.90%#		
95) 4-Terphenyl-d14	12.280	244	45290	0.690 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.00%		

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-05.D
Acq On : 20 Jun 2024 6:49 pm
Operator : SV107:mrg
Sample : L2433375-05,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 22:17:52 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 19:09:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.663	94	1728	0.080	ug/ml	93
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-05.D
Acq On : 20 Jun 2024 6:49 pm
Operator : SV107:mrg
Sample : L2433375-05,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 22:17:52 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 19:09:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	13.445	149	466	0.189	ug/ml#	52
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

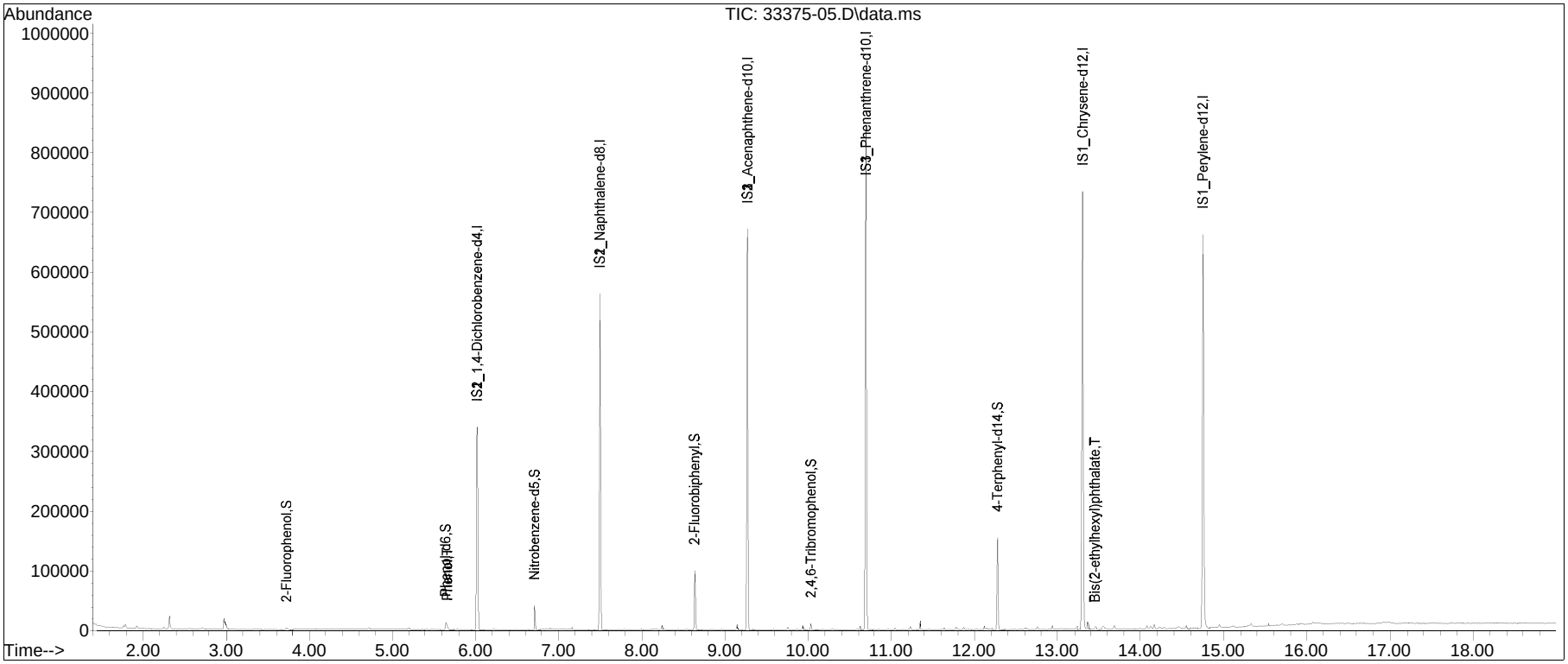
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

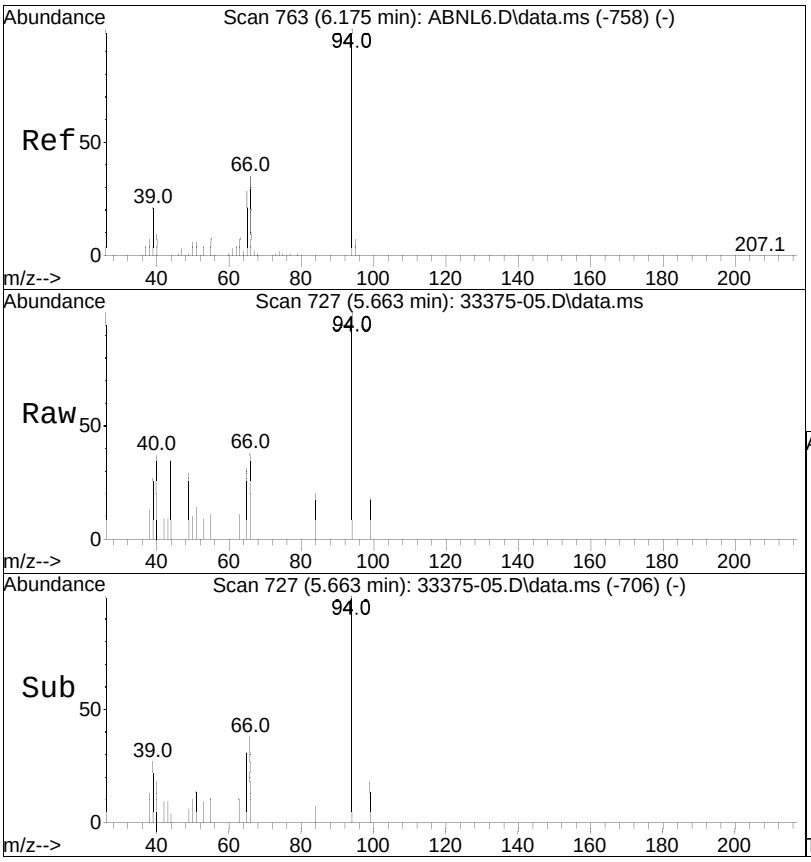
Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-05.D
Acq On : 20 Jun 2024 6:49 pm
Operator : SV107:mrg
Sample : L2433375-05,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 22:17:52 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 19:09:12 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90620.D•



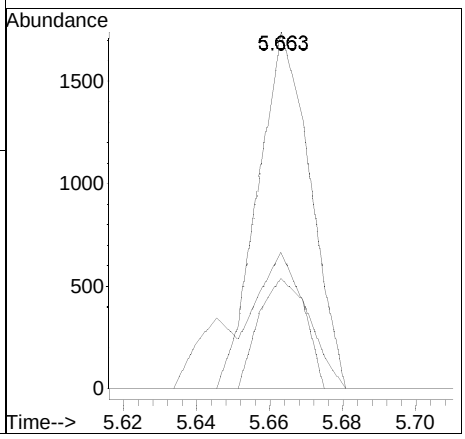
FS240602SV107RVT.m Thu Jun 20 22:19:50 2024 Page: 4

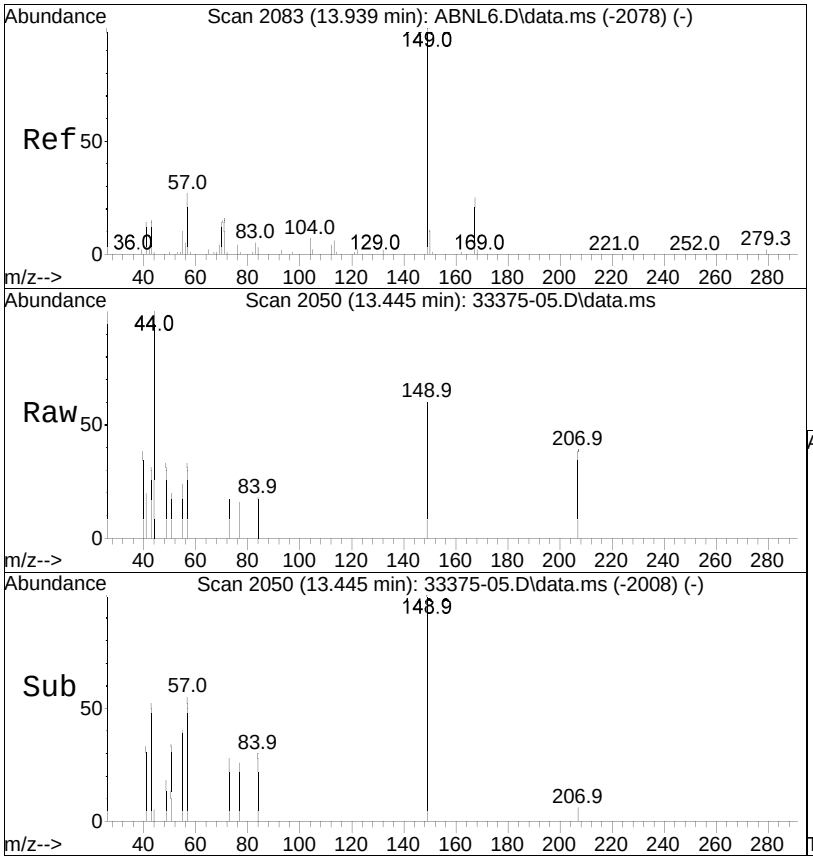


#8
Phenol
Concen: 0.08 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. -0.000 min
Lab File: 33375-05.D
Acq: 20 Jun 2024 6:49 pm

Tgt Ion: 94 Resp: 1728

Ion	Ratio	Lower	Upper
94	100		
65	30.7	26.0	39.0
66	48.1	33.8	50.8

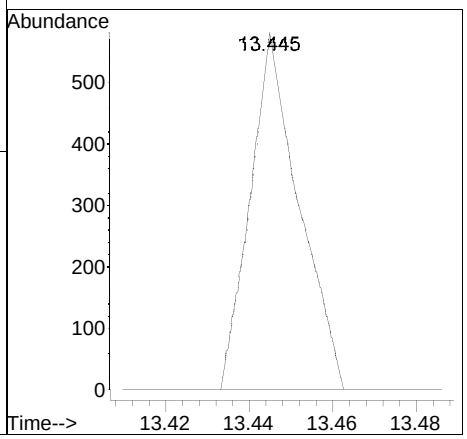




#107
Bis(2-ethylhexyl)phthalate
Concen: 0.19 ug/ml
RT: 13.445 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 33375-05.D
Acq: 20 Jun 2024 6:49 pm

Tgt Ion:149 Resp: 466

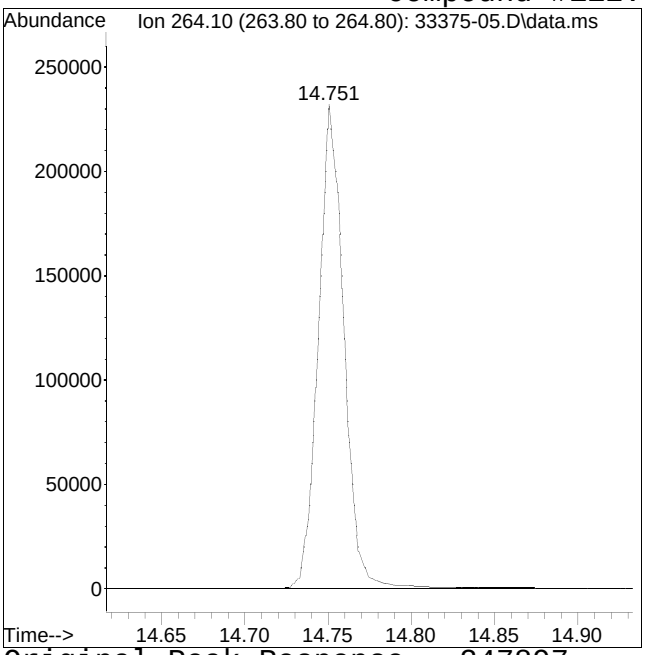
Ion	Ratio	Lower	Upper
149	100		
167	0.0	22.1	33.1#
279	0.0	3.0	4.4#

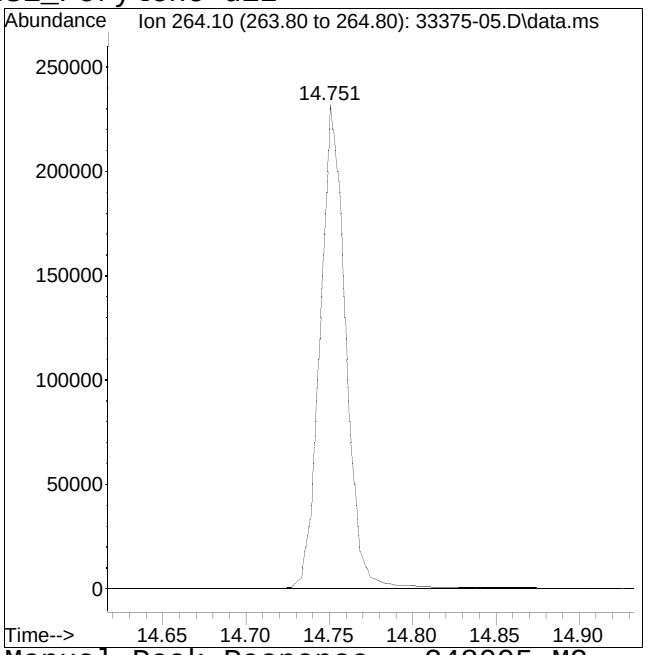


Manual Integration Report

Data Path : I:\8270\SV107\240620RVT\ QMethod : FS240602SV107RVT.m
Data File : 33375-05.D Operator : SV107:mrg
Date Inj'd : 6/20/2024 6:49 pm Instrument : SV107
Sample : L2433375-05,32,,HNY Quant Date : 6/20/2024 7:09 pm

Compound #112: IS1_Perylene-d12





Original Peak Response = 247897 Manual Peak Response = 248005 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-02.D
Acq On : 20 Jun 2024 8:33 pm
Operator : SV107:mrg
Sample : L2433375-02,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 22:16:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 20:52:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	67682	4.000	ug/ml	0.00
Standard Area 1 = 64596			Recovery = 104.78%			
27) IS2_1,4-Dichlorobenzen...	6.016	152	67682	4.000	ug/ml	0.00
Standard Area 3 = 62418			Recovery = 108.43%			
34) IS1_Naphthalene-d8	7.492	136	257940	4.000	ug/ml	0.00
Standard Area 1 = 242090			Recovery = 106.55%			
54) IS2_Naphthalene-d8	7.492	136	257940	4.000	ug/ml	0.00
Standard Area 3 = 232012			Recovery = 111.18%			
62) IS1_Acenaphthene-d10	9.269	164	167134	4.000	ug/ml	0.00
Standard Area 1 = 156189			Recovery = 107.01%			
82) IS2_Acenaphthene-d10	9.269	164	167134	4.000	ug/ml	0.00
Standard Area 3 = 146718			Recovery = 113.92%			
85) IS3_Acenaphthene-d10	9.269	164	167134	4.000	ug/ml	0.00
Standard Area 2 = 132297			Recovery = 126.33%			
87) IS1_Phenanthrene-d10	10.698	188	359643	4.000	ug/ml	0.00
Standard Area 1 = 313744			Recovery = 114.63%			
99) IS3_Phenanthrene-d10	10.698	188	359643	4.000	ug/ml	0.00
Standard Area 2 = 294448			Recovery = 122.14%			
103) IS1_Chrysene-d12	13.298	240	287664	4.000	ug/ml	0.00
Standard Area 1 = 264835			Recovery = 108.62%			
112) IS1_Perylene-d12	14.745	264	303762	4.000	ug/ml	0.00
Standard Area 1 = 258064			Recovery = 117.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.722	112	1561	0.086	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#			
7) Phenol-d6	5.645	99	4577	0.205	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.25%#			
19) Nitrobenzene-d5	6.710	82	15603	0.792	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 79.20%			
45) 2-Fluorobiphenyl	8.633	172	38307	0.686	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.60%			
78) 2,4,6-Tribromophenol	10.033	330	791	0.111	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.55%#			
95) 4-Terphenyl-d14	12.280	244	54979	0.699	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.90%			

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-02.D
Acq On : 20 Jun 2024 8:33 pm
Operator : SV107:mrg
Sample : L2433375-02,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 22:16:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 20:52:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-02.D
Acq On : 20 Jun 2024 8:33 pm
Operator : SV107:mrg
Sample : L2433375-02,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 22:16:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 20:52:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

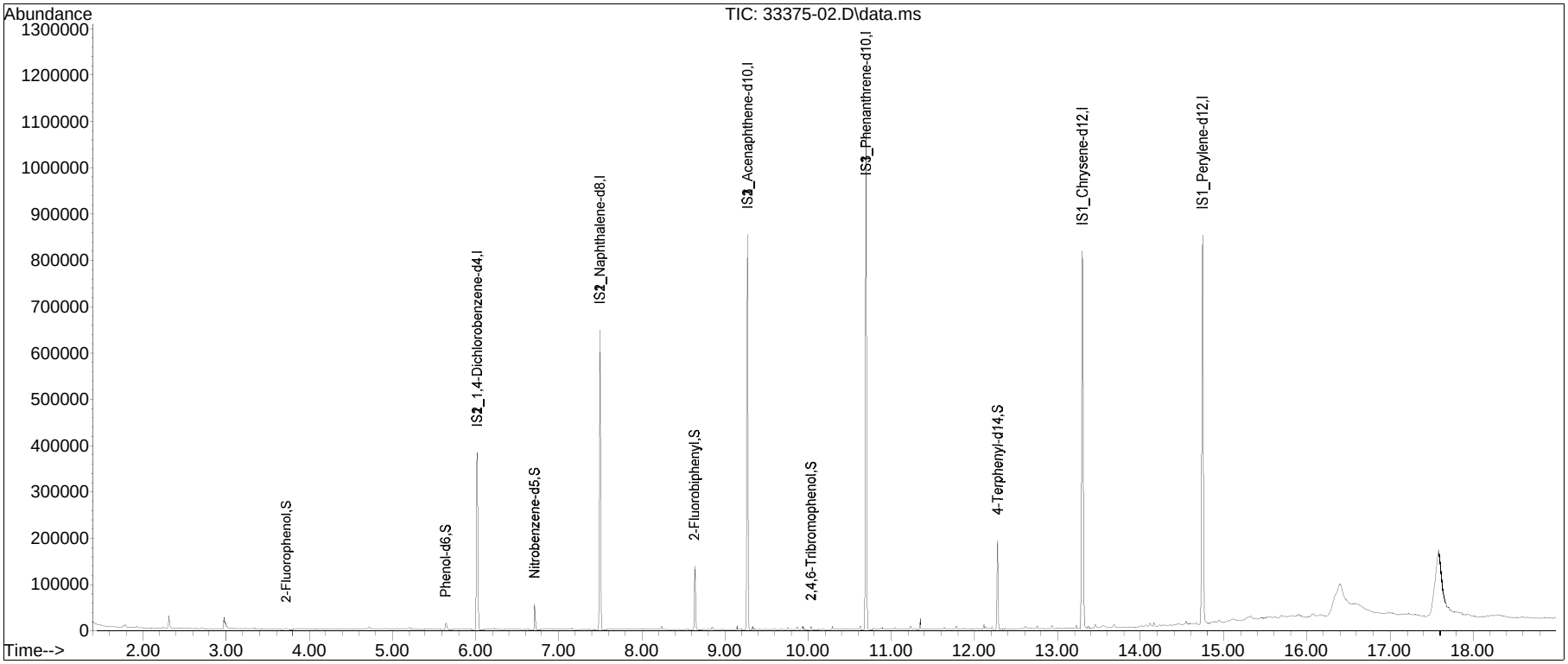
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-02.D
Acq On : 20 Jun 2024 8:33 pm
Operator : SV107:mrg
Sample : L2433375-02,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 22:16:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 20:52:55 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90620.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33375-02.D	Operator	: SV107:mrg
Date Inj'd	: 6/20/2024 8:33 pm	Instrument	: SV107
Sample	: L2433375-02,32,,HNY	Quant Date	: 6/20/2024 8:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-06.D
Acq On : 20 Jun 2024 8:58 pm
Operator : SV107:ljg
Sample : L2433375-06,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 06:35:38 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:19:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	66505	4.000	ug/ml	0.00
Standard Area 1 = 64596			Recovery = 102.96%			
27) IS2_1,4-Dichlorobenzen...	6.016	152	66505	4.000	ug/ml	0.00
Standard Area 3 = 62418			Recovery = 106.55%			
34) IS1_Naphthalene-d8	7.492	136	256157	4.000	ug/ml	0.00
Standard Area 1 = 242090			Recovery = 105.81%			
54) IS2_Naphthalene-d8	7.492	136	256157	4.000	ug/ml	0.00
Standard Area 3 = 232012			Recovery = 110.41%			
62) IS1_Acenaphthene-d10	9.269	164	164190	4.000	ug/ml	0.00
Standard Area 1 = 156189			Recovery = 105.12%			
82) IS2_Acenaphthene-d10	9.269	164	164190	4.000	ug/ml	0.00
Standard Area 3 = 146718			Recovery = 111.91%			
85) IS3_Acenaphthene-d10	9.269	164	164190	4.000	ug/ml	0.00
Standard Area 2 = 132297			Recovery = 124.11%			
87) IS1_Phenanthrene-d10	10.698	188	353843	4.000	ug/ml	0.00
Standard Area 1 = 313744			Recovery = 112.78%			
99) IS3_Phenanthrene-d10	10.698	188	353843	4.000	ug/ml	0.00
Standard Area 2 = 294448			Recovery = 120.17%			
103) IS1_Chrysene-d12	13.304	240	283499	4.000	ug/ml	0.00
Standard Area 1 = 264835			Recovery = 107.05%			
112) IS1_Perylene-d12	14.745	264	276153	4.000	ug/ml	0.00
Standard Area 1 = 258064			Recovery = 107.01%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.728	112	3950	0.222	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.10%#			
7) Phenol-d6	5.645	99	6630	0.302	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 15.10%			
19) Nitrobenzene-d5	6.710	82	15223	0.786	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 78.60%			
45) 2-Fluorobiphenyl	8.633	172	34805	0.627	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.70%			
78) 2,4,6-Tribromophenol	10.033	330	2441	0.349	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 17.45%			
95) 4-Terphenyl-d14	12.280	244	50534	0.653	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.30%			

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-06.D
Acq On : 20 Jun 2024 8:58 pm
Operator : SV107:ljg
Sample : L2433375-06,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 06:35:38 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:19:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.663	94	4434	0.185	ug/ml	95
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-06.D
Acq On : 20 Jun 2024 8:58 pm
Operator : SV107:ljg
Sample : L2433375-06,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 06:35:38 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:19:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

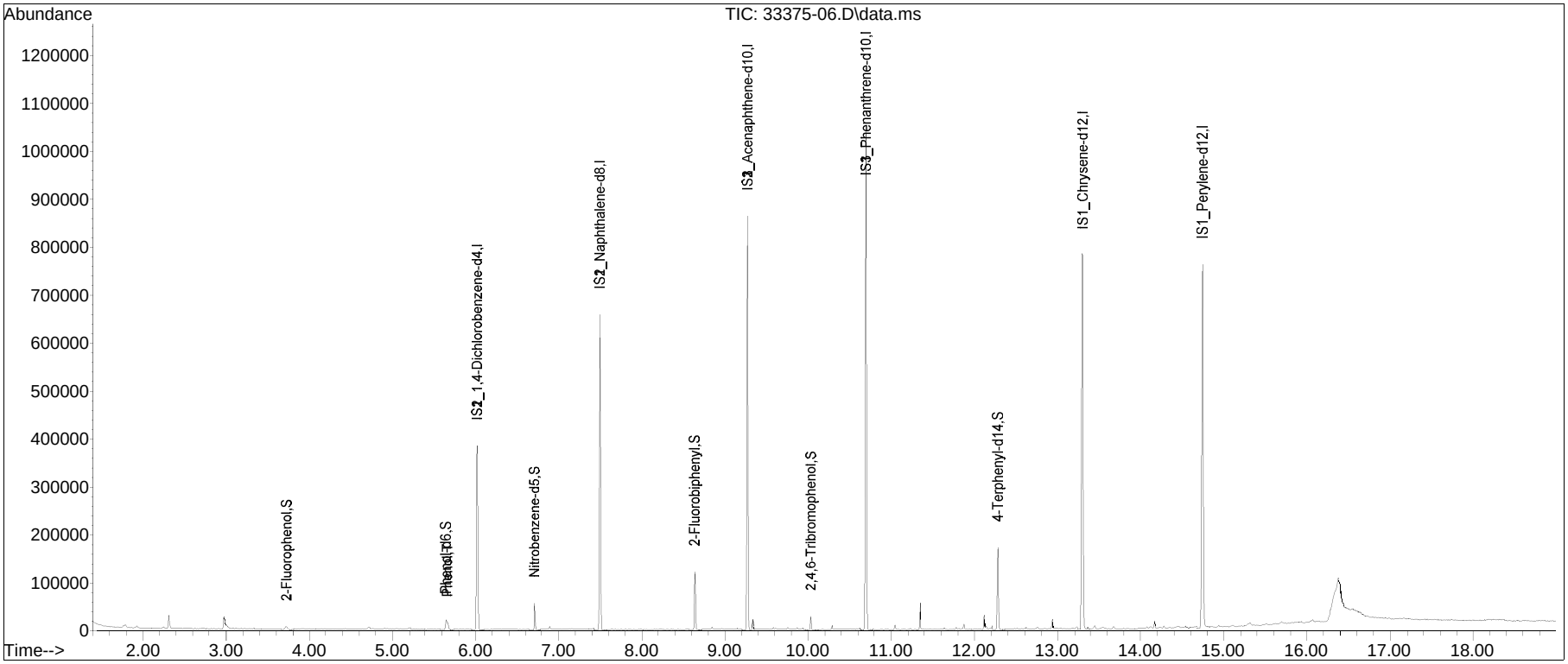
(#) = qualifier out of range (m) = manual integration (+) = signals summed

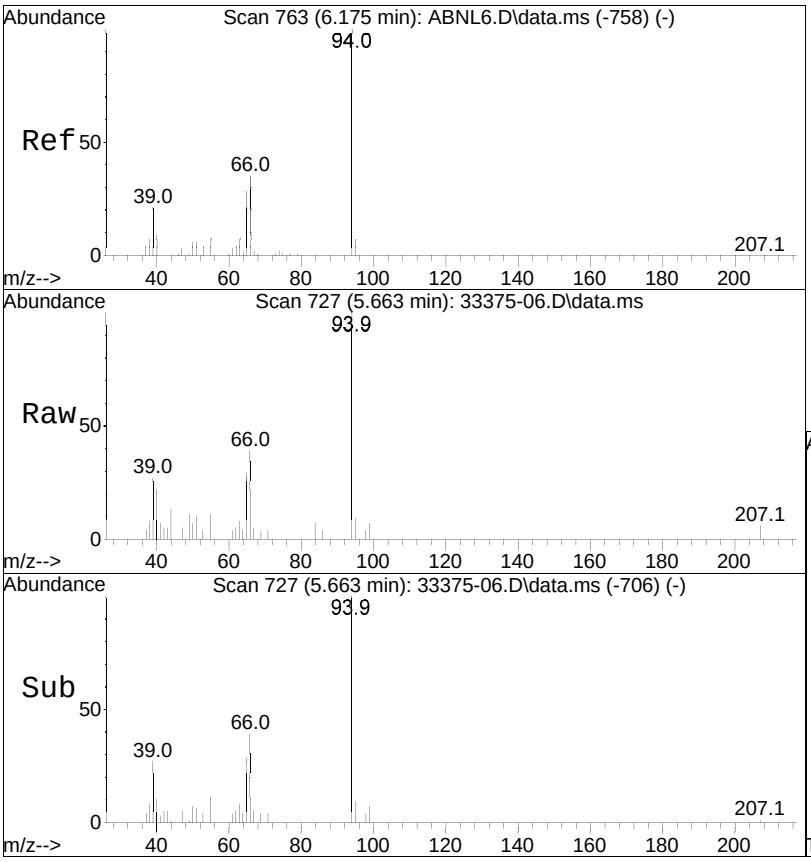
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-06.D
Acq On : 20 Jun 2024 8:58 pm
Operator : SV107:ljg
Sample : L2433375-06,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 06:35:38 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:19:02 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90620.D•

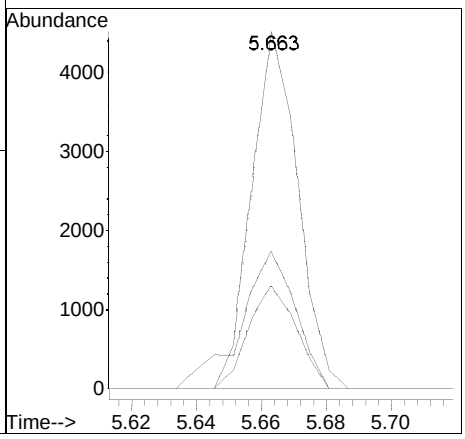




#8
Phenol
Concen: 0.19 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. -0.000 min
Lab File: 33375-06.D
Acq: 20 Jun 2024 8:58 pm

Tgt Ion: 94 Resp: 4434

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	45.8	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33375-06.D	Operator	: SV107:ljg
Date Inj'd	: 6/20/2024 8:58 pm	Instrument	: SV107
Sample	: L2433375-06,32,,HNY	Quant Date	: 6/20/2024 9:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-07.D
Acq On : 20 Jun 2024 9:24 pm
Operator : SV107:ljg
Sample : L2433375-07,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 06:36:25 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:44:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	65595	4.000	ug/ml	0.00
Standard Area 1 = 64596			Recovery = 101.55%			
27) IS2_1,4-Dichlorobenzen...	6.016	152	65595	4.000	ug/ml	0.00
Standard Area 3 = 62418			Recovery = 105.09%			
34) IS1_Naphthalene-d8	7.492	136	251109	4.000	ug/ml	0.00
Standard Area 1 = 242090			Recovery = 103.73%			
54) IS2_Naphthalene-d8	7.492	136	251109	4.000	ug/ml	0.00
Standard Area 3 = 232012			Recovery = 108.23%			
62) IS1_Acenaphthene-d10	9.269	164	155253	4.000	ug/ml	0.00
Standard Area 1 = 156189			Recovery = 99.40%			
82) IS2_Acenaphthene-d10	9.269	164	155253	4.000	ug/ml	0.00
Standard Area 3 = 146718			Recovery = 105.82%			
85) IS3_Acenaphthene-d10	9.269	164	155253	4.000	ug/ml	0.00
Standard Area 2 = 132297			Recovery = 117.35%			
87) IS1_Phenanthrene-d10	10.698	188	325466	4.000	ug/ml	0.00
Standard Area 1 = 313744			Recovery = 103.74%			
99) IS3_Phenanthrene-d10	10.698	188	325466	4.000	ug/ml	0.00
Standard Area 2 = 294448			Recovery = 110.53%			
103) IS1_Chrysene-d12	13.298	240	262104	4.000	ug/ml	0.00
Standard Area 1 = 264835			Recovery = 98.97%			
112) IS1_Perylene-d12	14.739	264	270548	4.000	ug/ml	-0.01
Standard Area 1 = 258064			Recovery = 104.84%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.716	112	7634	0.435	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.75%			
7) Phenol-d6	5.645	99	10230	0.472	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.60%			
19) Nitrobenzene-d5	6.710	82	13105	0.686	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.60%			
45) 2-Fluorobiphenyl	8.633	172	29720	0.547	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.70%			
78) 2,4,6-Tribromophenol	10.033	330	3844	0.581	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.05%			
95) 4-Terphenyl-d14	12.280	244	41676	0.585	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 58.50%			

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-07.D
Acq On : 20 Jun 2024 9:24 pm
Operator : SV107:ljg
Sample : L2433375-07,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 06:36:25 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:44:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.663	94	5259	0.223	ug/ml	94
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-07.D
Acq On : 20 Jun 2024 9:24 pm
Operator : SV107:ljg
Sample : L2433375-07,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 06:36:25 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:44:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
108) Di-n-octylphthalate	0.000		0		N.D.	d

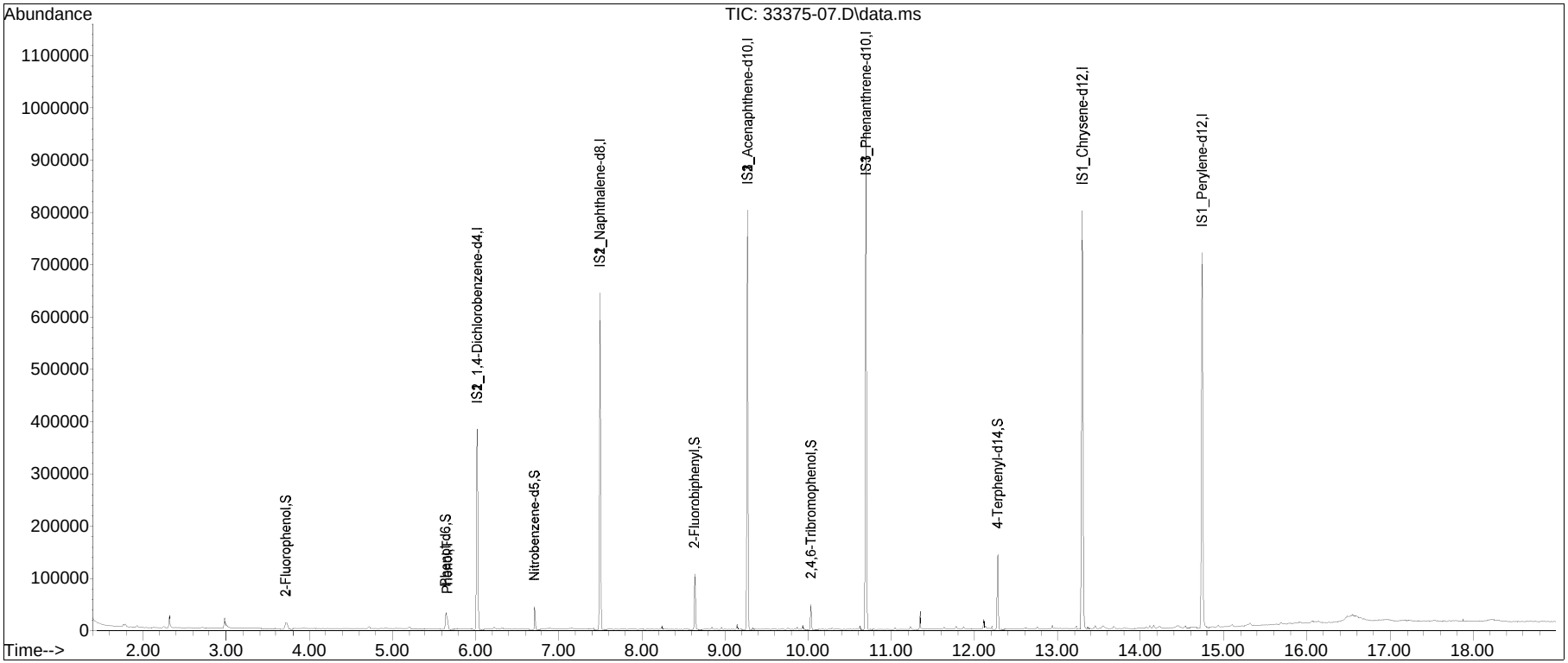
(#) = qualifier out of range (m) = manual integration (+) = signals summed

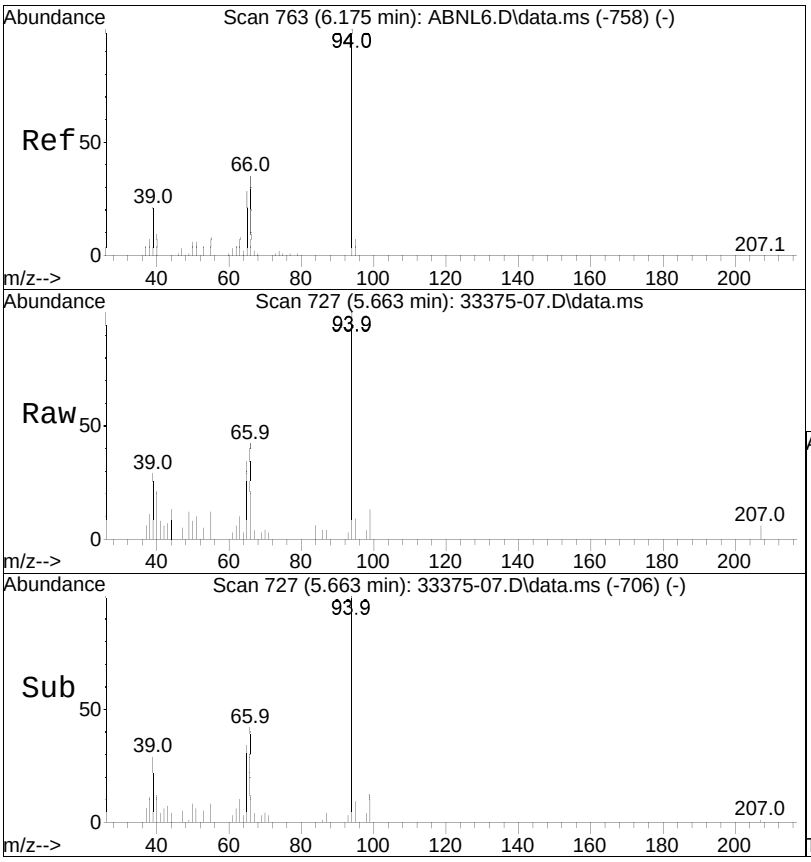
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-07.D
Acq On : 20 Jun 2024 9:24 pm
Operator : SV107:ljg
Sample : L2433375-07,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 06:36:25 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 21:44:26 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90620.D•

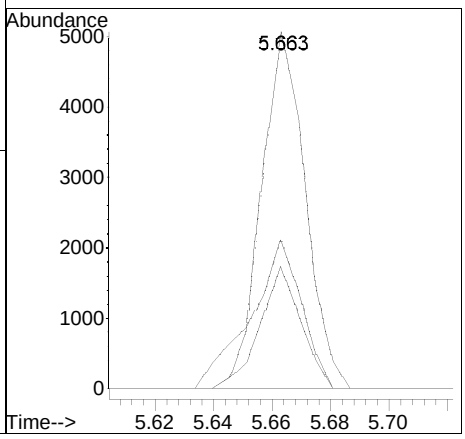




#8
Phenol
Concen: 0.22 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. -0.000 min
Lab File: 33375-07.D
Acq: 20 Jun 2024 9:24 pm

Tgt Ion: 94 Resp: 5259

Ion	Ratio	Lower	Upper
94	100		
65	32.1	26.0	39.0
66	48.6	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33375-07.D	Operator	: SV107:ljg
Date Inj'd	: 6/20/2024 9:24 pm	Instrument	: SV107
Sample	: L2433375-07,32,,HNY	Quant Date	: 6/20/2024 9:44 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-08.D
Acq On : 20 Jun 2024 9:50 pm
Operator : SV107:ljg
Sample : L2433375-08,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 06:37:14 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 22:11:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	62361	4.000	ug/ml	0.00
Standard Area 1 = 64596			Recovery = 96.54%			
27) IS2_1,4-Dichlorobenzen...	6.016	152	62361	4.000	ug/ml	0.00
Standard Area 3 = 62418			Recovery = 99.91%			
34) IS1_Naphthalene-d8	7.492	136	237908	4.000	ug/ml	0.00
Standard Area 1 = 242090			Recovery = 98.27%			
54) IS2_Naphthalene-d8	7.492	136	237908	4.000	ug/ml	0.00
Standard Area 3 = 232012			Recovery = 102.54%			
62) IS1_Acenaphthene-d10	9.269	164	154609	4.000	ug/ml	0.00
Standard Area 1 = 156189			Recovery = 98.99%			
82) IS2_Acenaphthene-d10	9.269	164	154609	4.000	ug/ml	0.00
Standard Area 3 = 146718			Recovery = 105.38%			
85) IS3_Acenaphthene-d10	9.269	164	154609	4.000	ug/ml	0.00
Standard Area 2 = 132297			Recovery = 116.87%			
87) IS1_Phenanthrene-d10	10.698	188	335245	4.000	ug/ml	0.00
Standard Area 1 = 313744			Recovery = 106.85%			
99) IS3_Phenanthrene-d10	10.698	188	335245	4.000	ug/ml	0.00
Standard Area 2 = 294448			Recovery = 113.86%			
103) IS1_Chrysene-d12	13.304	240	270497	4.000	ug/ml	0.00
Standard Area 1 = 264835			Recovery = 102.14%			
112) IS1_Perylene-d12	14.751	264	267633	4.000	ug/ml	0.00
Standard Area 1 = 258064			Recovery = 103.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.716	112	6107	0.366	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.30%			
7) Phenol-d6	5.645	99	10167	0.493	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%			
19) Nitrobenzene-d5	6.710	82	15264	0.841	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 84.10%			
45) 2-Fluorobiphenyl	8.633	172	32971	0.640	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 64.00%			
78) 2,4,6-Tribromophenol	10.039	330	3017	0.458	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 22.90%			
95) 4-Terphenyl-d14	12.280	244	56964	0.777	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.70%			

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-08.D
Acq On : 20 Jun 2024 9:50 pm
Operator : SV107:ljg
Sample : L2433375-08,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 06:37:14 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 22:11:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.663	94	2679	0.119	ug/ml#	82
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-08.D
Acq On : 20 Jun 2024 9:50 pm
Operator : SV107:ljg
Sample : L2433375-08,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 06:37:14 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 22:11:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

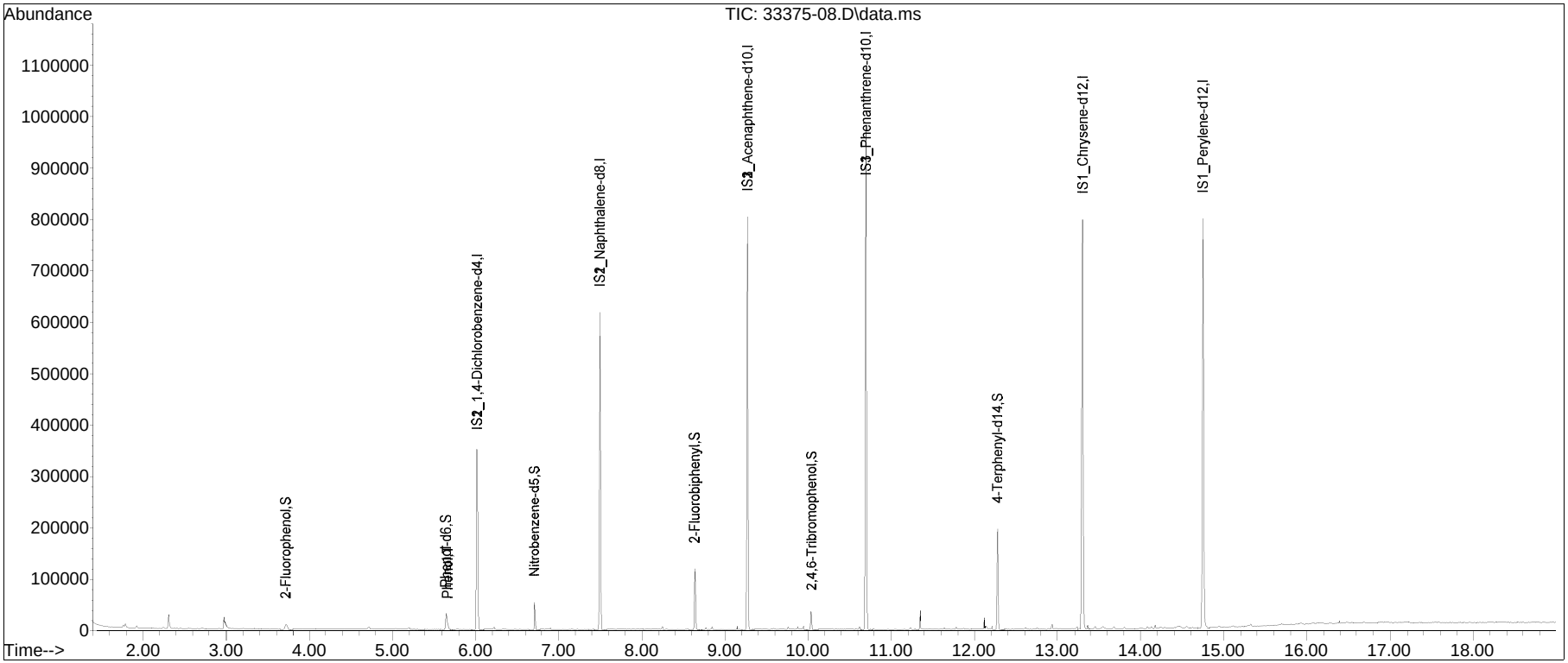
(#) = qualifier out of range (m) = manual integration (+) = signals summed

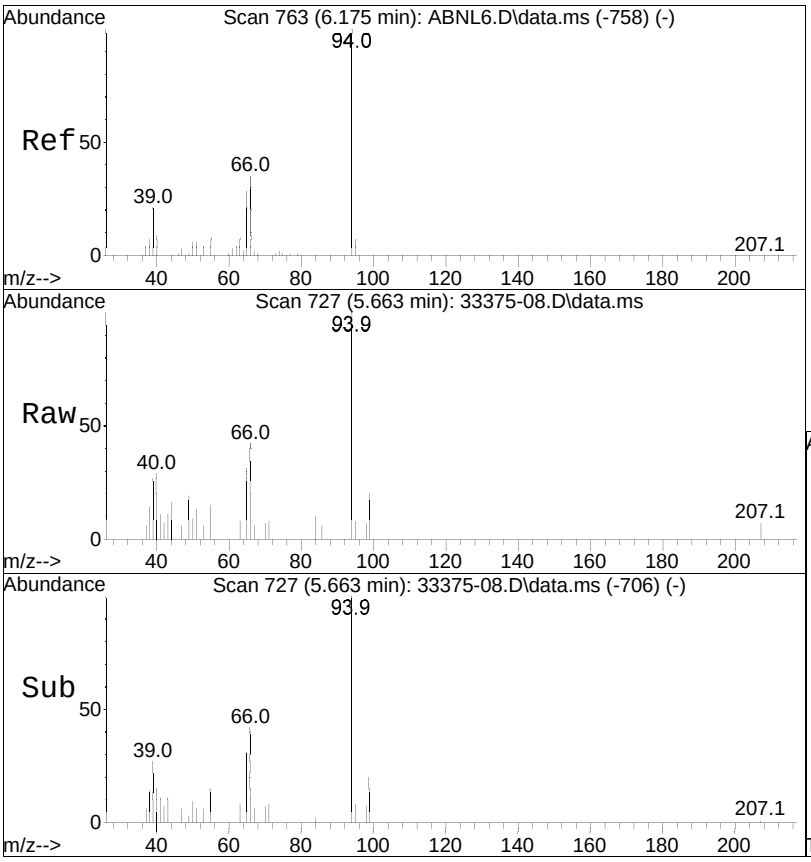
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 33375-08.D
Acq On : 20 Jun 2024 9:50 pm
Operator : SV107:ljg
Sample : L2433375-08,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 06:37:14 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 22:11:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90620.D•

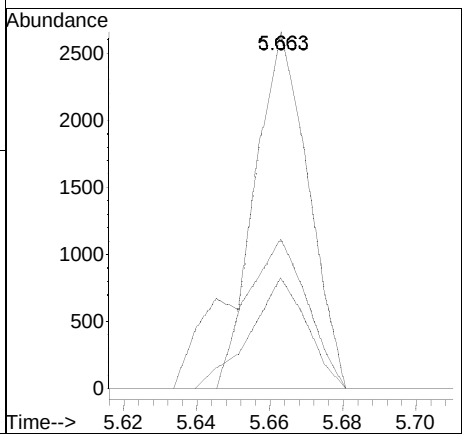




#8
Phenol
Concen: 0.12 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. -0.000 min
Lab File: 33375-08.D
Acq: 20 Jun 2024 9:50 pm

Tgt Ion: 94 Resp: 2679

Ion	Ratio	Lower	Upper
94	100		
65	33.2	26.0	39.0
66	62.0	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33375-08.D	Operator	: SV107:ljg
Date Inj'd	: 6/20/2024 9:50 pm	Instrument	: SV107
Sample	: L2433375-08,32,,HNY	Quant Date	: 6/20/2024 10:11 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 33375-04.D
Acq On : 21 Jun 2024 11:18 am
Operator : SV107:sz
Sample : L2433375-04,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 21 11:45:57 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:37:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.954	152	67218	4.000	ug/ml	0.00
Standard Area 1 = 64707			Recovery = 103.88%			
27) IS2_1,4-Dichlorobenzen...	5.954	152	67218	4.000	ug/ml	0.00
Standard Area 3 = 64708			Recovery = 103.88%			
34) IS1_Naphthalene-d8	7.442	136	244312	4.000	ug/ml	0.00
Standard Area 1 = 235755			Recovery = 103.63%			
54) IS2_Naphthalene-d8	7.442	136	244312	4.000	ug/ml	0.00
Standard Area 3 = 235329			Recovery = 103.82%			
62) IS1_Acenaphthene-d10	9.219	164	152116	4.000	ug/ml	0.00
Standard Area 1 = 141034			Recovery = 107.86%			
82) IS2_Acenaphthene-d10	9.219	164	152116	4.000	ug/ml	0.00
Standard Area 3 = 132909			Recovery = 114.45%			
85) IS3_Acenaphthene-d10	9.219	164	152116	4.000	ug/ml	0.00
Standard Area 2 = 134249			Recovery = 113.31%			
87) IS1_Phenanthrene-d10	10.648	188	306232	4.000	ug/ml	0.00
Standard Area 1 = 276864			Recovery = 110.61%			
99) IS3_Phenanthrene-d10	10.648	188	306232	4.000	ug/ml	0.00
Standard Area 2 = 271047			Recovery = 112.98%			
103) IS1_Chrysene-d12	13.248	240	242603	4.000	ug/ml	0.00
Standard Area 1 = 231677			Recovery = 104.72%			
112) IS1_Perylene-d12	14.695	264	273699	4.000	ug/ml	0.01
Standard Area 1 = 238143			Recovery = 114.93%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.596	112	5433	0.302	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 15.10%			
7) Phenol-d6	5.590	99	8240	0.371	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.55%			
19) Nitrobenzene-d5	6.660	82	15771	0.806	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 80.60%			
45) 2-Fluorobiphenyl	8.589	172	38051	0.719	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.90%			
78) 2,4,6-Tribromophenol	9.989	330	2431	0.375	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.75%			
95) 4-Terphenyl-d14	12.230	244	45398	0.678	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.80%			

Data Path : I:\8270\SV107\240620NRVT\
Data File : 33375-04.D
Acq On : 21 Jun 2024 11:18 am
Operator : SV107:sz
Sample : L2433375-04,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 21 11:45:57 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:37:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.607	94	4502	0.186	ug/ml	94
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.	d	
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.	d	
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.	d	
71) Diethyl phthalate	9.707	149	6982	0.141	ug/ml	98
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240620NRVT\
Data File : 33375-04.D
Acq On : 21 Jun 2024 11:18 am
Operator : SV107:sz
Sample : L2433375-04,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 21 11:45:57 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:37:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.	d	
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

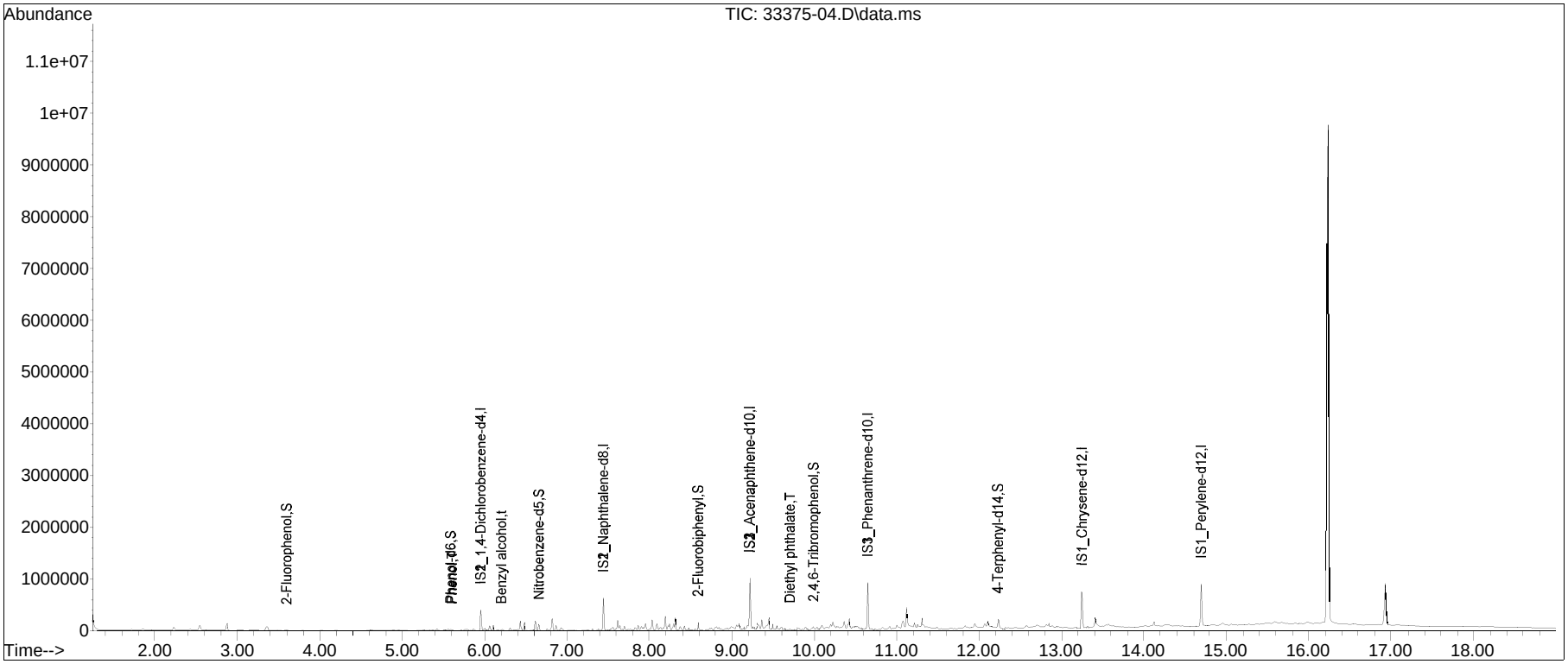
(#) = qualifier out of range (m) = manual integration (+) = signals summed

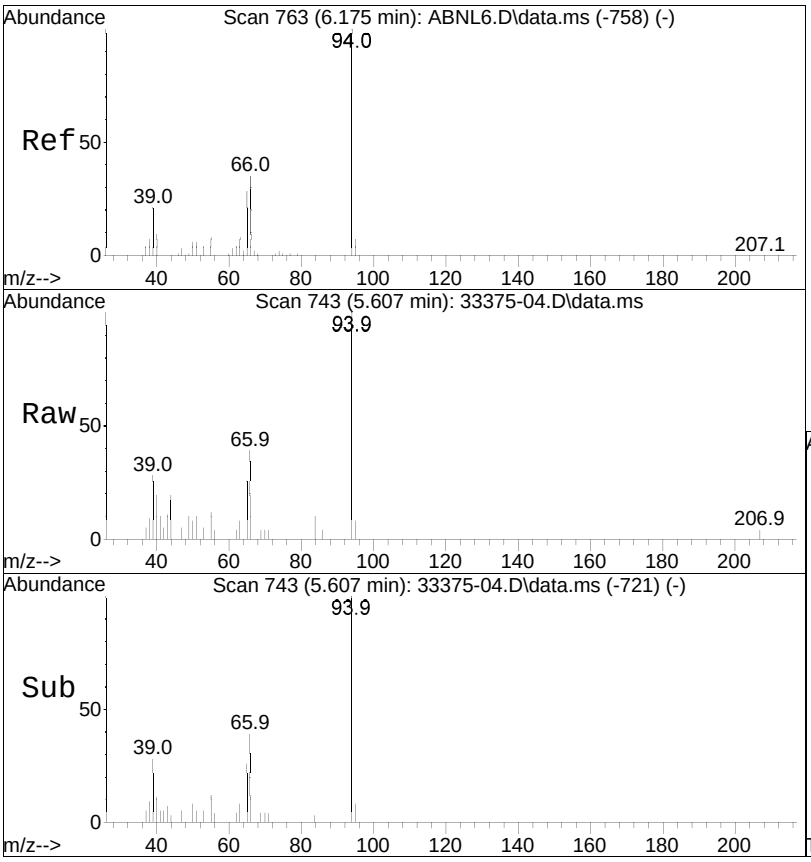
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 33375-04.D
Acq On : 21 Jun 2024 11:18 am
Operator : SV107:sz
Sample : L2433375-04,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 21 11:45:57 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:37:53 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90620n.D•

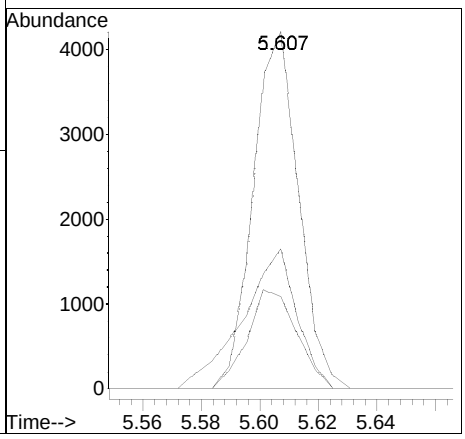


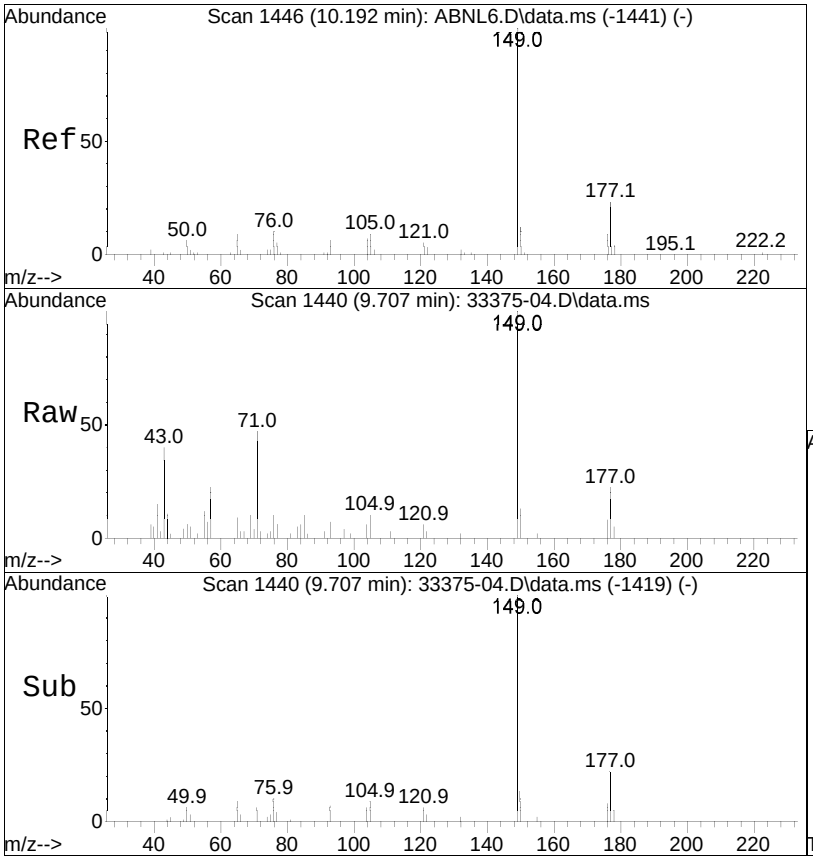


#8
Phenol
Concen: 0.19 ug/ml
RT: 5.607 min Scan# 743
Delta R.T. 0.006 min
Lab File: 33375-04.D
Acq: 21 Jun 2024 11:18 am

Tgt Ion: 94 Resp: 4502

Ion	Ratio	Lower	Upper
94	100		
65	30.4	26.0	39.0
66	47.3	33.8	50.8

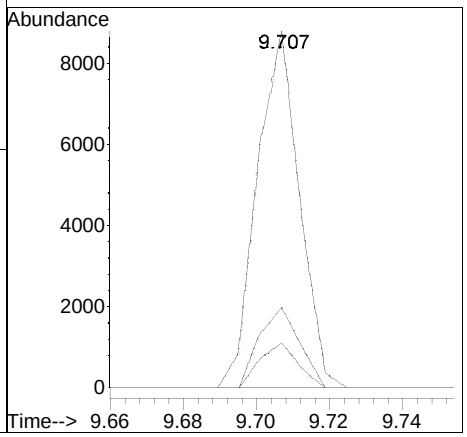




#71
Diethyl phthalate
Concen: 0.14 ug/ml
RT: 9.707 min Scan# 1440
Delta R.T. 0.000 min
Lab File: 33375-04.D
Acq: 21 Jun 2024 11:18 am

Tgt Ion:149 Resp: 6982

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.1	24.1
150	11.4	9.4	14.2



Manual Integration Report

Data Path	: I:\8270\SV107\240620NRVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33375-04.D	Operator	: SV107:sz
Date Inj'd	: 6/21/2024 11:18 am	Instrument	: SV107
Sample	: L2433375-04,32,,ASK	Quant Date	: 6/21/2024 11:37 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : 33375-03.D
Acq On : 21 Jun 2024 8:30 pm
Operator : SV107:cmm
Sample : L2433375-03,32,,HNY
Misc : WG1937738,WG1936908,ical21169
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 09:02:18 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 20:49:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240621RVT\ABN0621.D
: 2 - I:\8270\sv107\240621RVT\ADP0621.D
: 3 - I:\8270\sv107\240621RVT\AP90621.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.925	152	62988	4.000	ug/ml	0.00
Standard Area 1 = 66483			Recovery = 94.74%			
27) IS2_1,4-Dichlorobenzen...	5.925	152	62988	4.000	ug/ml	0.00
Standard Area 3 = 63614			Recovery = 99.02%			
34) IS1_Naphthalene-d8	7.419	136	232160	4.000	ug/ml	0.00
Standard Area 1 = 248398			Recovery = 93.46%			
54) IS2_Naphthalene-d8	7.419	136	232160	4.000	ug/ml	0.00
Standard Area 3 = 233983			Recovery = 99.22%			
62) IS1_Acenaphthene-d10	9.189	164	136966	4.000	ug/ml	0.00
Standard Area 1 = 154514			Recovery = 88.64%			
82) IS2_Acenaphthene-d10	9.189	164	136966	4.000	ug/ml	0.00
Standard Area 3 = 143096			Recovery = 95.72%			
85) IS3_Acenaphthene-d10	9.189	164	136966	4.000	ug/ml	0.00
Standard Area 2 = 133240			Recovery = 102.80%			
87) IS1_Phenanthrene-d10	10.619	188	281580	4.000	ug/ml	0.00
Standard Area 1 = 316410			Recovery = 88.99%			
99) IS3_Phenanthrene-d10	10.619	188	281580	4.000	ug/ml	0.00
Standard Area 2 = 282406			Recovery = 99.71%			
103) IS1_Chrysene-d12	13.213	240	235204	4.000	ug/ml	0.00
Standard Area 1 = 283013			Recovery = 83.11%			
112) IS1_Perylene-d12	14.648	264	249670	4.000	ug/ml	0.00
Standard Area 1 = 281875			Recovery = 88.57%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.543	112	9629	0.572	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.60%			
7) Phenol-d6	5.566	99	10102	0.485	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.25%			
19) Nitrobenzene-d5	6.631	82	14149	0.771	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.10%			
45) 2-Fluorobiphenyl	8.566	172	34666	0.690	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.00%			
78) 2,4,6-Tribromophenol	9.960	330	4376	0.749	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.45%			
95) 4-Terphenyl-d14	12.201	244	42099	0.683	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.30%			

Data Path : I:\8270\SV107\240621RVT\
Data File : 33375-03.D
Acq On : 21 Jun 2024 8:30 pm
Operator : SV107:cmm
Sample : L2433375-03,32,,HNY
Misc : WG1937738,WG1936908,ical21169
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 09:02:18 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 20:49:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240621RVT\ABN0621.D
: 2 - I:\8270\sv107\240621RVT\ADP0621.D
: 3 - I:\8270\sv107\240621RVT\AP90621.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.584	94	4661	0.206	ug/ml#	91
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240621RVT\
Data File : 33375-03.D
Acq On : 21 Jun 2024 8:30 pm
Operator : SV107:cmm
Sample : L2433375-03,32,,HNY
Misc : WG1937738,WG1936908,ical21169
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 09:02:18 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 20:49:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240621RVT\ABN0621.D
: 2 - I:\8270\sv107\240621RVT\ADP0621.D
: 3 - I:\8270\sv107\240621RVT\AP90621.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

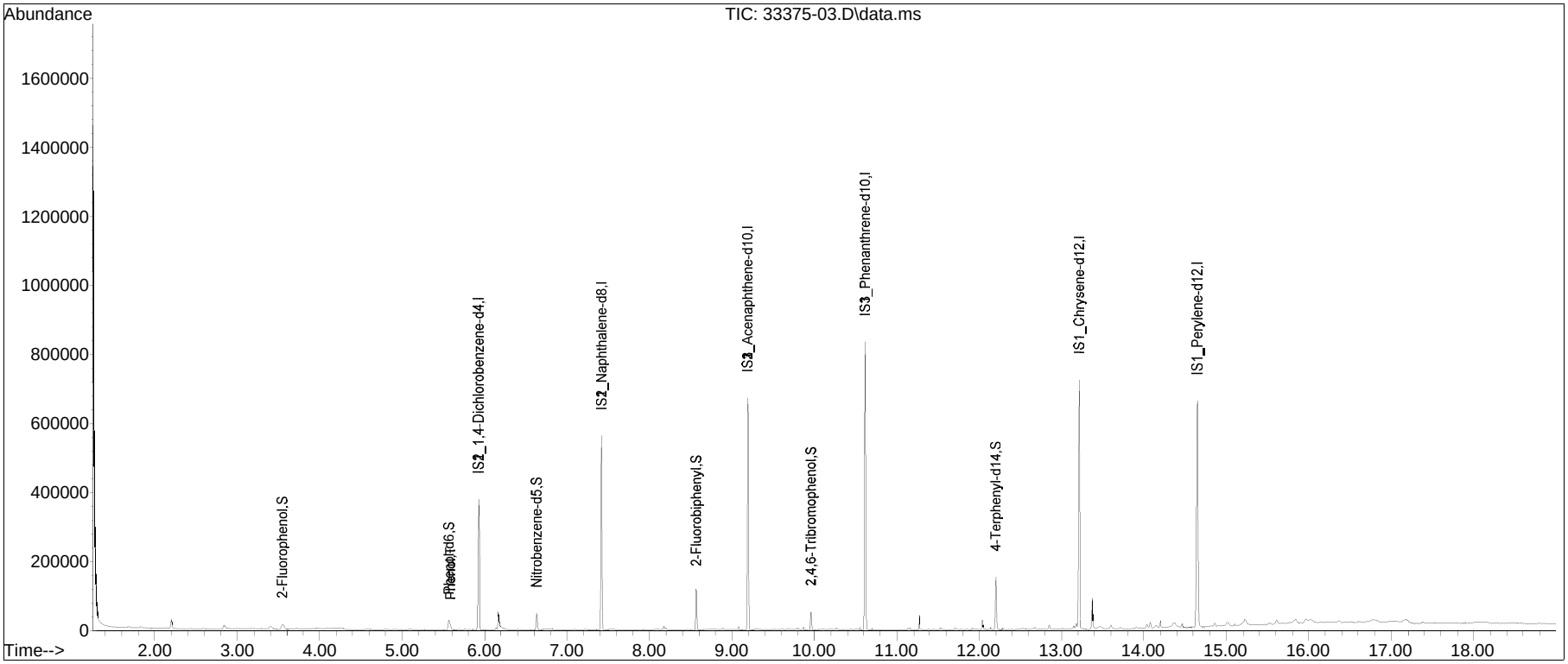
(#) = qualifier out of range (m) = manual integration (+) = signals summed

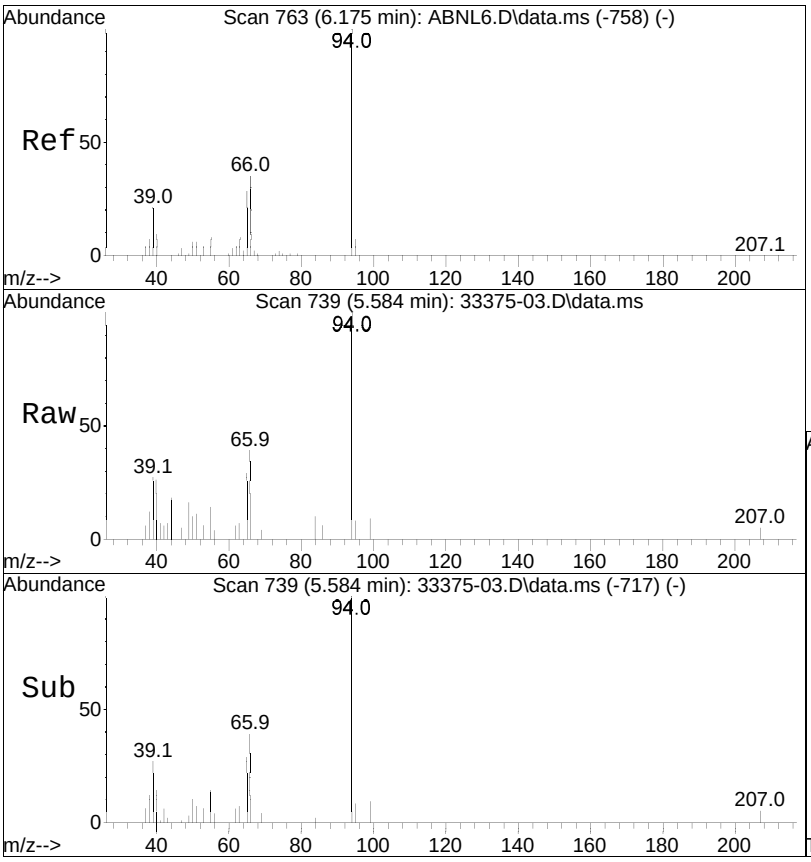
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : 33375-03.D
Acq On : 21 Jun 2024 8:30 pm
Operator : SV107:cmm
Sample : L2433375-03,32,,HNY
Misc : WG1937738,WG1936908,ical21169
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 09:02:18 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 20:49:33 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90621.D•

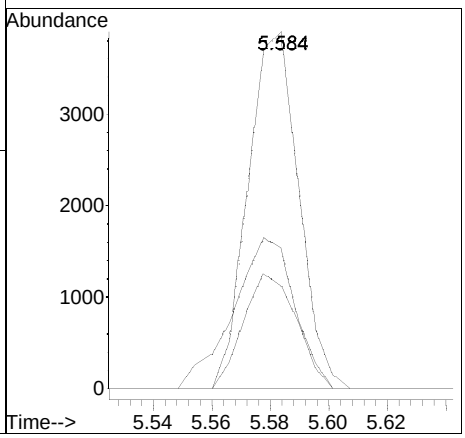




#8
Phenol
Concen: 0.21 ug/ml
RT: 5.584 min Scan# 739
Delta R.T. 0.006 min
Lab File: 33375-03.D
Acq: 21 Jun 2024 8:30 pm

Tgt Ion: 94 Resp: 4661

Ion	Ratio	Lower	Upper
94	100		
65	33.9	26.0	39.0
66	51.5	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV107\240621RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33375-03.D	Operator	: SV107:cmm
Date Inj'd	: 6/21/2024 8:30 pm	Instrument	: SV107
Sample	: L2433375-03,32,,HNY	Quant Date	: 6/21/2024 8:49 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38) T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39) T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40) T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41) T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42) T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43) T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44) T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45) S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61
46) T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47) T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48) T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49) T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50) T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51) T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52) T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53) T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54) I	IS2_Naphthalene-d8	----------ISTD----------										
55) T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56) T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57) T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58) T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59) T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60) T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61) T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62) I	IS1_Acenaphthene-d10	----------ISTD----------										
63) T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64) T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65) T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66) T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67) T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68) T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69) T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70) T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71) T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72) T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04
82)	I	IS2_Acenaphthene-d10	----------ISTD----------										
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990
85)	I	IS3_Acenaphthene-d10	----------ISTD----------										
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16
87)	I	IS1_Phenanthrene-d10	----------ISTD----------										
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	ISTD										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992
37)	T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38)	T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39)	T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40)	T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41)	T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42)	T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43)	T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44)	T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45)	S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
46)	T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24	
47)	T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54	
48)	T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10	
49)	T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85	
50)	T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10	
51)	T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93	
52)	T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32	
53)	T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41	
54)	I	IS2_Naphthalene-d8	ISTD											
55)	T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15	
56)	T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14	
57)	T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85	
58)	T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04	
59)	T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11	
60)	T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58	
61)	T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65	
62)	I	IS1_Acenaphthene-d10	ISTD											
63)	T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84	
64)	T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24	
65)	T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922	
66)	T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69	
67)	T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948	
68)	T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91	
69)	T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48	
70)	T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01	
71)	T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33	
72)	T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52	
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41	
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62	
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911	
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49	
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08	
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42	
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09	
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66	
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04	
82)	I	IS2_Acenaphthene-d10	ISTD											
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978	
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990	
85)	I	IS3_Acenaphthene-d10	ISTD											
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16	
87)	I	IS1_Phenanthrene-d10	ISTD											
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77	
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70	
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26	

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

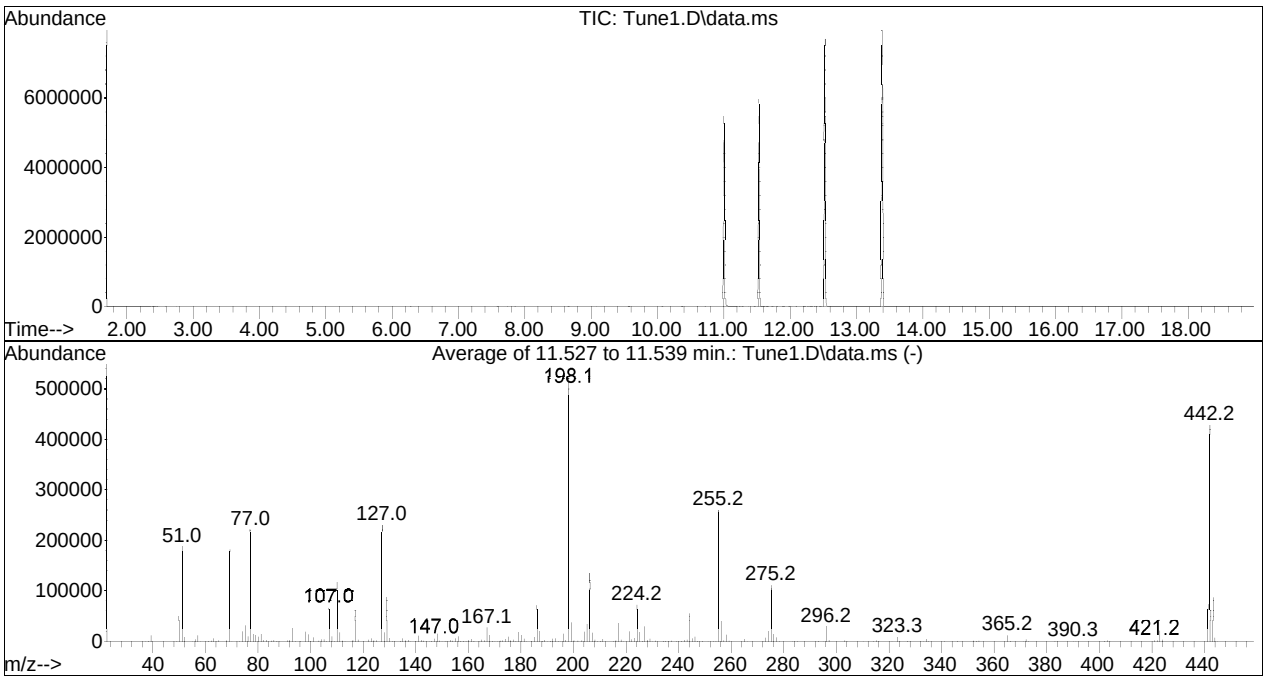
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

(#) = Out of Range

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



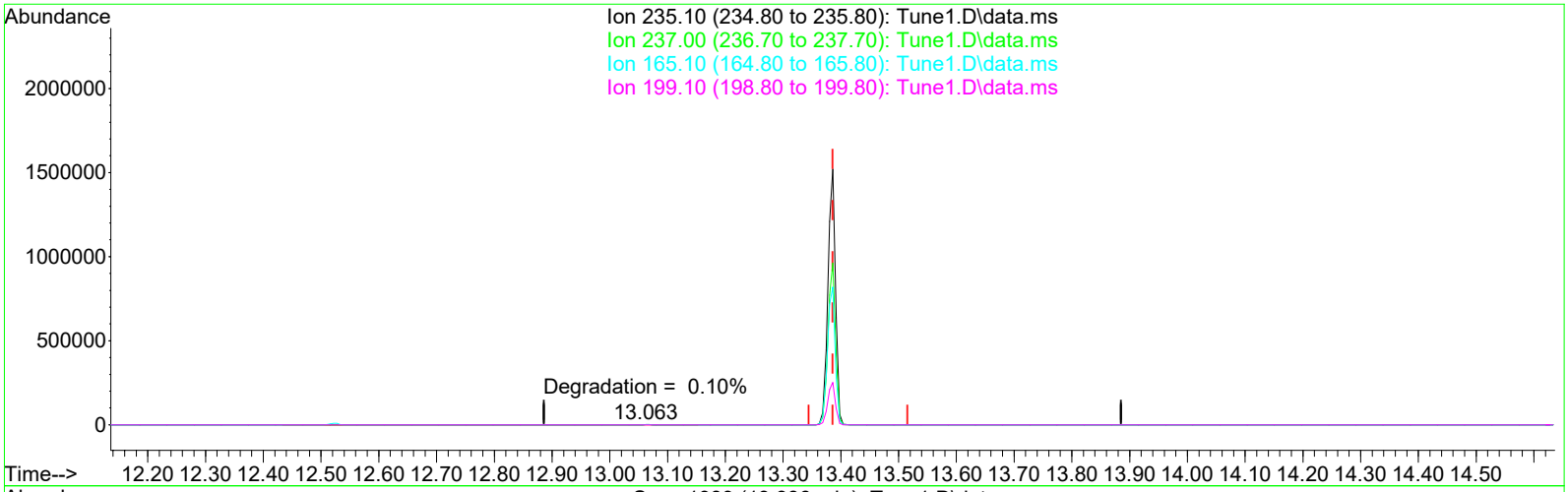
Spectrum Information: Average of 11.527 to 11.539 min.

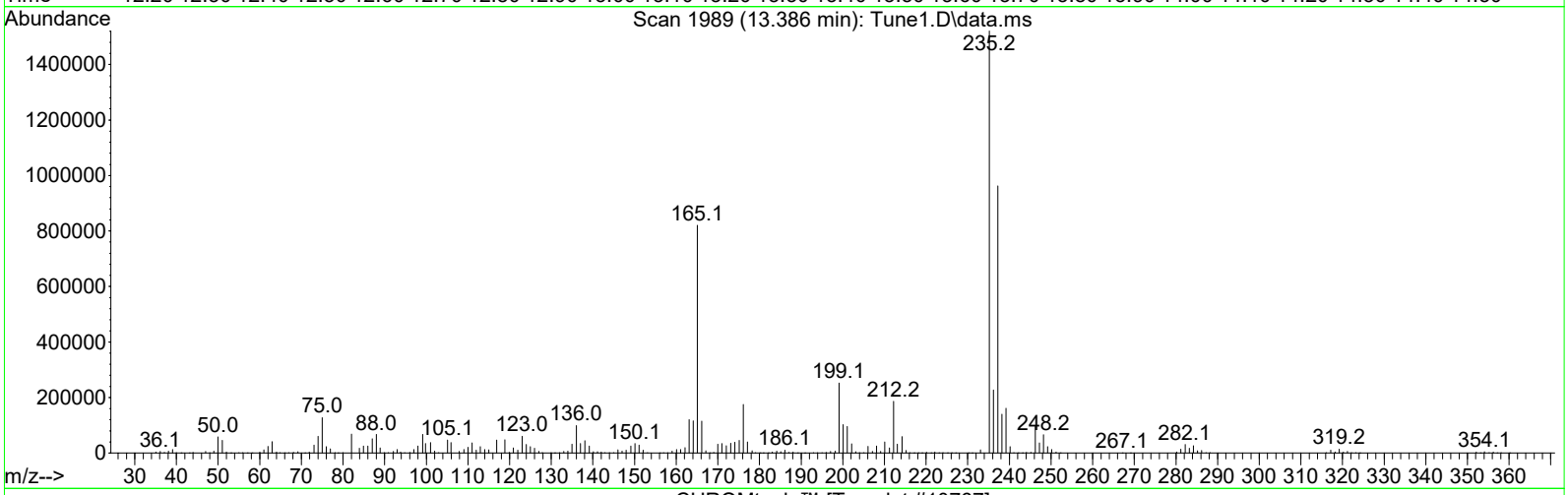
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	187531	PASS
68	69	0.00	2	1.7	3108	PASS
69	69	100	100	100.0	182483	PASS
70	69	0.00	2	0.6	1027	PASS
127	198	10	80	44.0	229973	PASS
197	198	0.00	2	0.8	4040	PASS
198	198	100	100	100.0	522133	PASS
199	198	5	9	6.8	35451	PASS
275	198	10	60	21.3	111272	PASS
365	198	1	100	2.3	12158	PASS
441	442	0.01	24	16.8	72077	PASS
442	198	50	100	82.0	427989	PASS
443	442	15	24	20.2	86597	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.386min (+ 0.000) 228.98

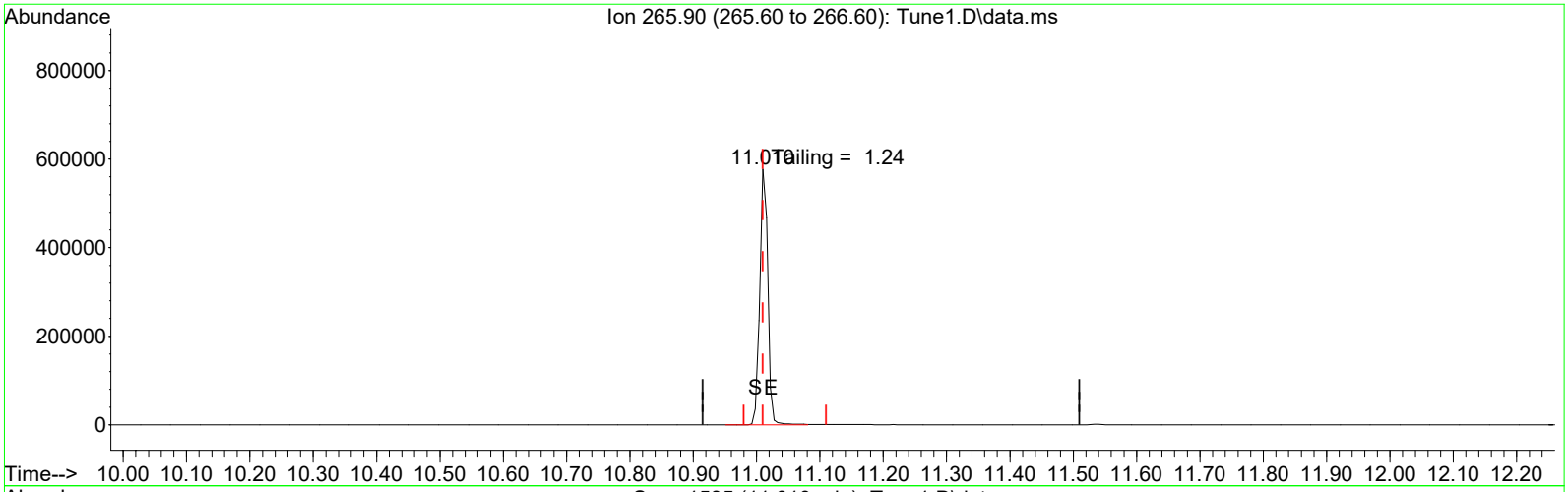
response 1395788

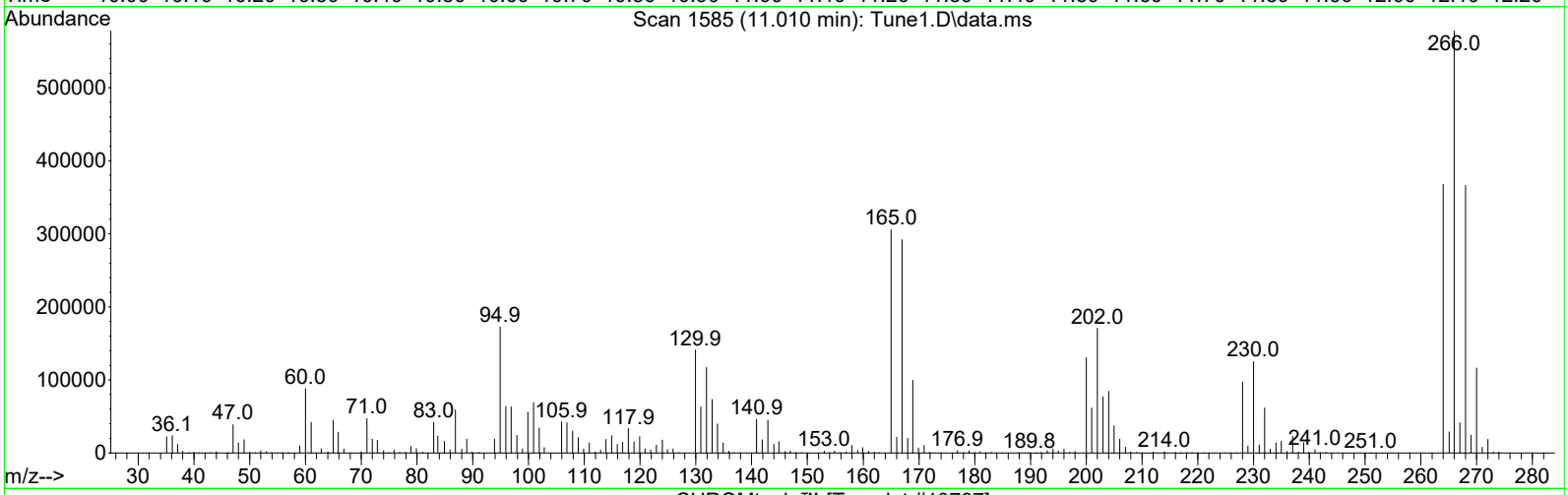
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.53
165.10	55.40	55.28
199.10	16.20	16.69

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.010min (-0.000) 240.75

response 505661

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

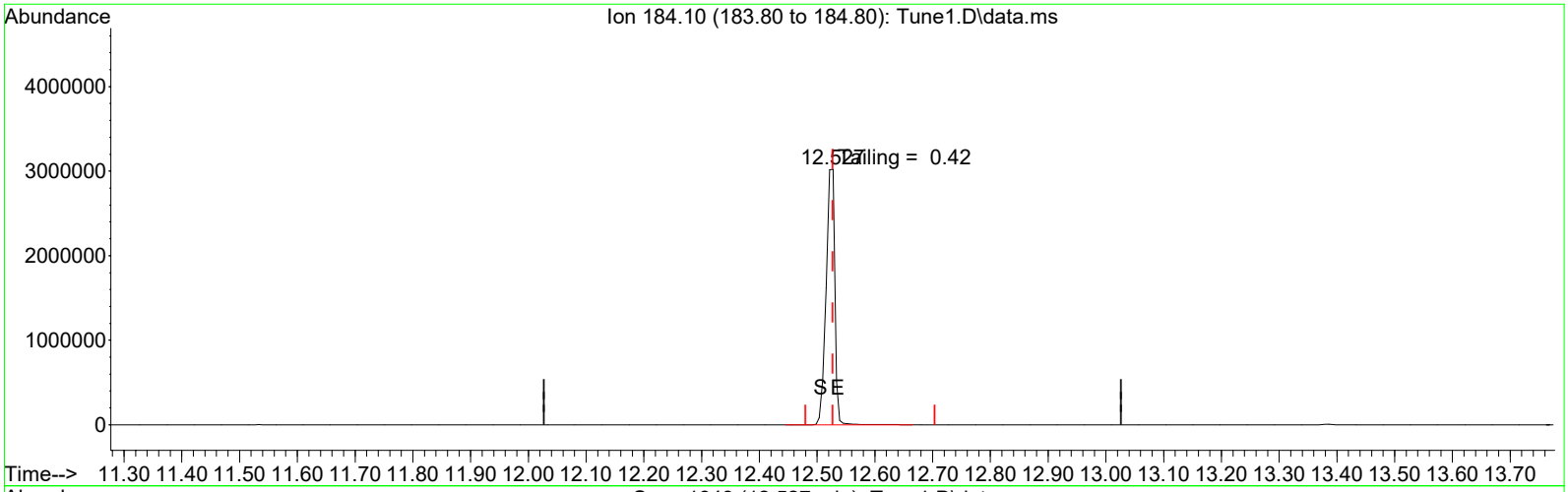
Duplicate Retention Times

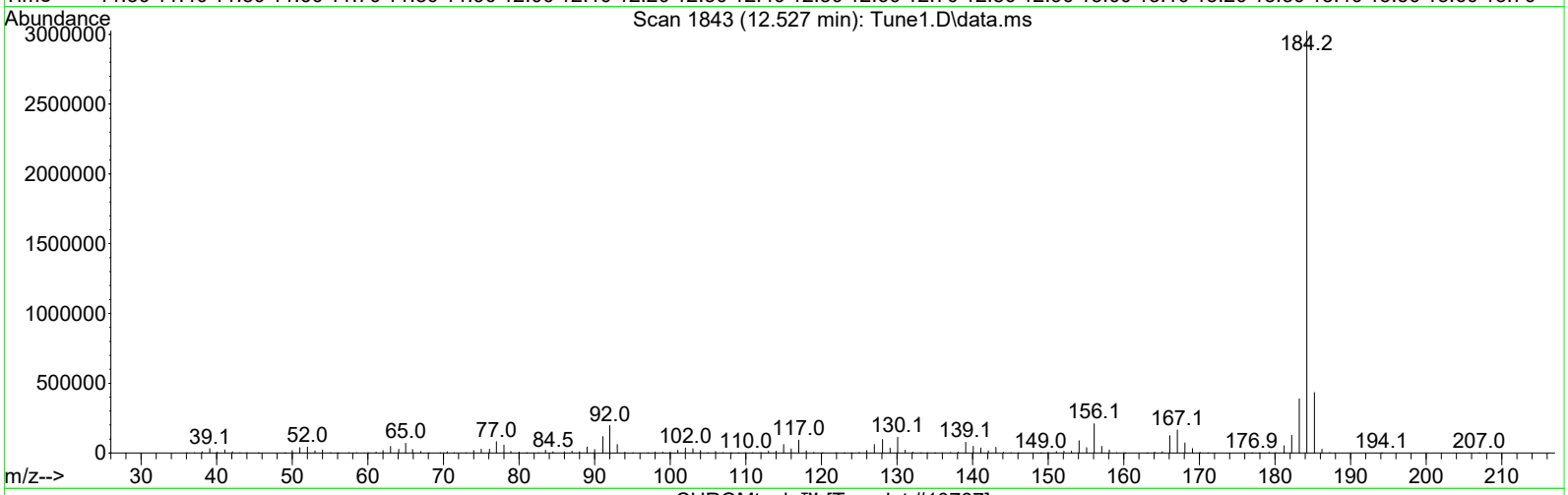
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.527min (+ 0.000) 310.23

response 3158173

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52092	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 100.08%			
34) IS1_Naphthalene-d8	7.963	136	196006	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.97%			
62) IS1_Acenaphthene-d10	9.733	164	120488	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.19%			
87) IS1_Phenanthrene-d10	11.174	188	241169	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.61%			
103) IS1_Chrysene-d12	13.845	240	226976	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 97.03%			
112) IS1_Perylene-d12	15.321	264	215373	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 89.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	729562	47.770	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2388.50%#			
7) Phenol-d6	6.169	99	913206	47.155	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2357.75%#			
19) Nitrobenzene-d5	7.192	82	848672	47.774	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4777.40%#			
45) 2-Fluorobiphenyl	9.086	172	2139322	47.429	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4742.90%#			
78) 2,4,6-Tribromophenol	10.510	330	308756	68.577	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 3428.85%#			
95) 4-Terphenyl-d14	12.768	244	2749792	51.791	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5179.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	476466	44.380	ug/ml#	67
3) Pyridine	2.310	79	789847M3	50.615	ug/ml	
5) Aniline	6.134	93	1179796	51.274	ug/ml	98
6) 2-Chlorophenol	6.281	128	815776	48.639	ug/ml	94
8) Phenol	6.186	94	991965	46.986	ug/ml	97
9) Bis(2-chloroethyl)ether	6.257	93	785125	44.809	ug/ml#	85
10) 1,3-Dichlorobenzene	6.463	146	976808	46.986	ug/ml	98
11) 1,4-Dichlorobenzene	6.557	146	986681	46.274	ug/ml	98
12) 1,2-Dichlorobenzene	6.734	146	961491	47.316	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.745	79	719447	51.831	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	1103416	46.642	ug/ml#	45
15) 2-Methylphenol	6.910	108	745396	50.435	ug/ml	98
16) Hexachloroethane	7.122	117	371487	48.927	ug/ml#	63
17) n-Nitrosodi-n-propylamine	7.069	70	617228	51.768	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.098	108	786206	49.161	ug/ml	98
20) Nitrobenzene	7.210	77	867466	47.687	ug/ml	99
21) Isophorone	7.492	82	1631961	52.056	ug/ml	97
22) 2-Nitrophenol	7.569	139	413598	55.352	ug/ml	91
23) 2,4-Dimethylphenol	7.669	107	786698	63.139	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.763	93	1032309	48.807	ug/ml	98
25) 2,4-Dichlorophenol	7.833	162	804676	55.165	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.916	180	890261	46.778	ug/ml	97
35) Naphthalene	7.981	128	2455182	44.647	ug/ml	98
36) Benzoic Acid	7.857	105	594990M3	46.450	ug/ml	
37) 4-Chloroaniline	8.063	65	329663	48.950	ug/ml	90
38) Hexachlorobutadiene	8.145	225	524479	47.024	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	752356	53.913	ug/ml	98
40) 2-Methylnaphthalene	8.704	142	1773515	48.547	ug/ml	96
41) 1-Methylnaphthalene	8.798	115	595801	47.696	ug/ml	97
42) Hexachlorocyclopentadiene	8.880	237	585777	72.368	ug/ml	98
43) 2,4,6-Trichlorophenol	8.998	196	683883	61.941	ug/ml	98
44) 2,4,5-Trichlorophenol	9.027	196	684500	57.154	ug/ml	99
46) 2-Chloronaphthalene	9.186	162	1814998	49.433	ug/ml	96
47) 2-Nitroaniline	9.298	138	516831	46.219	ug/ml	89
48) 1,4-Dinitrobenzene	9.433	168	255453	47.634	ug/ml	77
49) 1,3-Dinitrobenzene	9.510	168	312993	59.575	ug/ml#	1
50) Dimethyl phthalate	9.510	163	2147747	52.966	ug/ml#	98
51) Acenaphthylene	9.592	152	2805280	50.791	ug/ml	97
52) 2,6-Dinitrotoluene	9.551	165	436608	49.584	ug/ml#	81
53) 1,2-Dinitrobenzene	9.598	168	197825	52.511	ug/ml#	1
63) 3-Nitroaniline	9.710	138	471068	51.669	ug/ml	97
64) Acenaphthene	9.769	154	1695793	49.930	ug/ml	92
65) 2,4-Dinitrophenol	9.810	184	269058	55.401	ug/ml#	87
66) Dibenzofuran	9.939	168	2683577	48.125	ug/ml	95
67) 2,4-Dinitrotoluene	9.945	165	656313	53.666	ug/ml	92
68) 4-Nitrophenol	9.898	65	390800	50.844	ug/ml#	88
69) 2,3,5,6-Tetrachlorophenol	10.027	232	577911	60.589	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.069	232	546634	56.529	ug/ml	97
71) Diethyl phthalate	10.204	149	2108194	53.768	ug/ml	96
72) Fluorene	10.269	166	2115991	50.482	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.286	204	1044988	48.404	ug/ml	90
74) 4-Nitroaniline	10.316	138	461065	50.193	ug/ml#	88
75) 4,6-Dinitro-o-cresol	10.339	198	365550	56.724	ug/ml#	63
76) NDPA/DPA	10.410	169	1833086	54.507	ug/ml	94
77) Azobenzene	10.439	77	1989446	50.335	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.763	248	581049	51.273	ug/ml	90
80) Hexachlorobenzene	10.816	284	638949	51.087	ug/ml#	87
81) Pentachlorophenol	11.010	266	461808	58.459	ug/ml	98
88) Phenanthrene	11.204	178	3149864	46.986	ug/ml	97
89) Anthracene	11.251	178	3281818	51.815	ug/ml	97
90) Carbazole	11.421	167	3013630	52.456	ug/ml	96
91) Di-n-butylphthalate	11.804	149	3786524	61.939	ug/ml	98
92) Fluoranthene	12.363	202	3725734	51.666	ug/ml#	92
93) Benzidine	12.515	184	2523163	64.802	ug/ml#	95
94) Pyrene	12.586	202	3910527	50.113	ug/ml	97
96) Butyl benzyl phthalate	13.304	149	1728011	50.798	ug/ml	92
104) Benzo(a)anthracene	13.839	228	3679599	48.093	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.833	252	1382777	59.932	ug/ml#	97
106) Chrysene	13.880	228	3388097	43.998	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	13.945	149	2632420	48.002	ug/ml#	98
108) Di-n-octylphthalate	14.633	149	4417645	45.595	ug/ml#	73
109) Benzo(b)fluoranthene	14.962	252	3618166	54.564	ug/ml#	94
110) Benzo(k)fluoranthene	14.992	252	3209700	46.807	ug/ml#	93
111) Benzo(a)pyrene	15.280	252	3161941	53.187	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	3147861M6	62.085	ug/mL	
114) Dibenzo(a,h)anthracene	16.380	278	2930895	55.128	ug/ml#	92
115) Benzo(ghi)perylene	16.627	276	2517993	47.199	ug/ml#	89

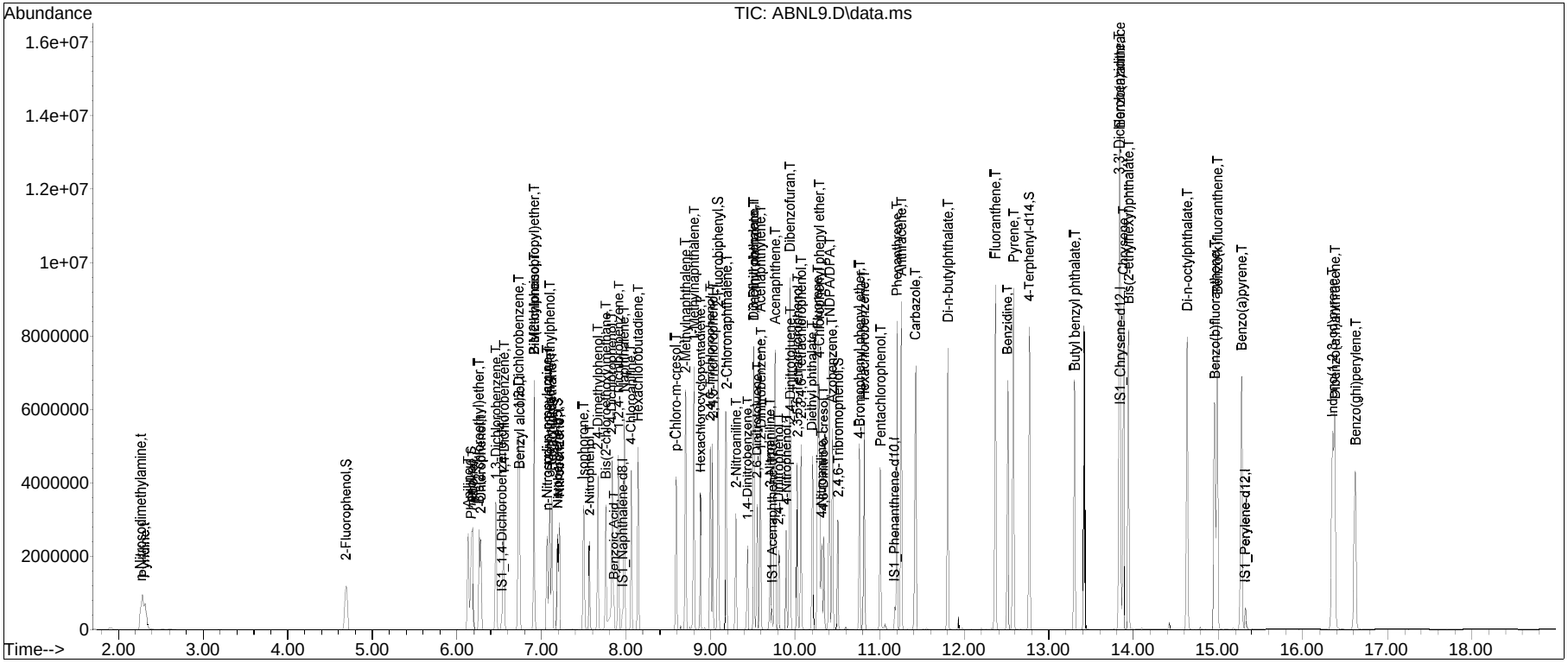
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

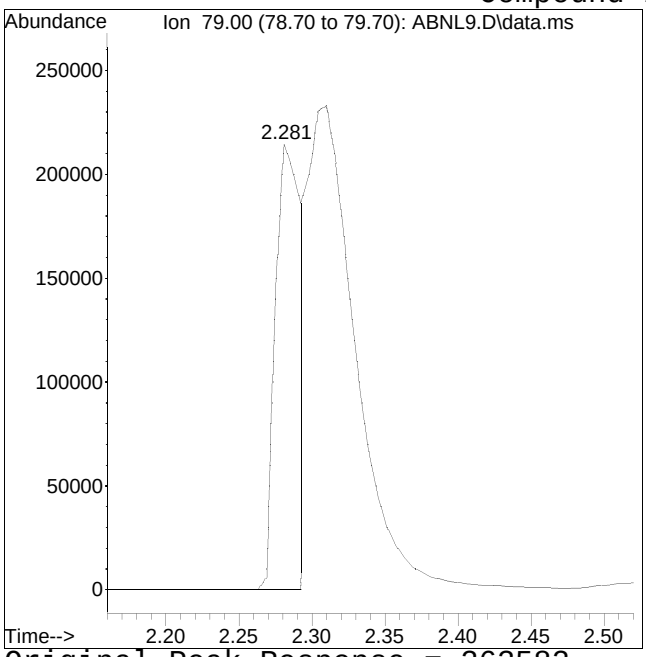
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

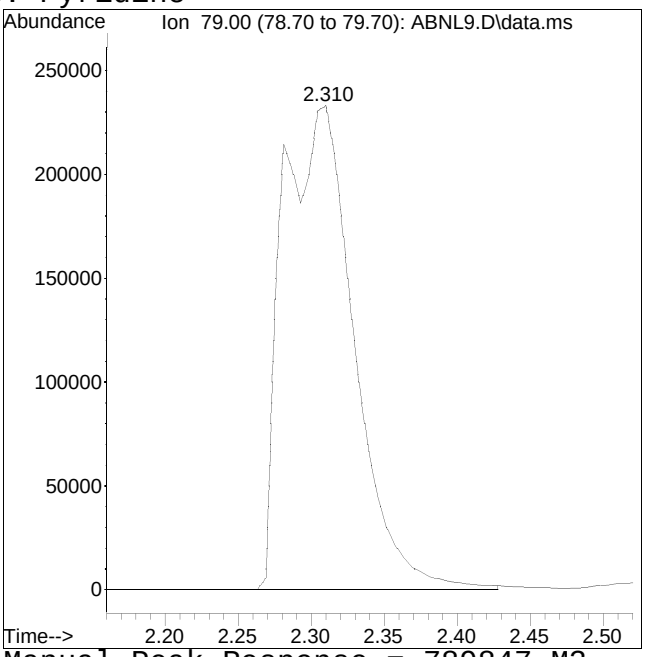


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #3: Pyridine



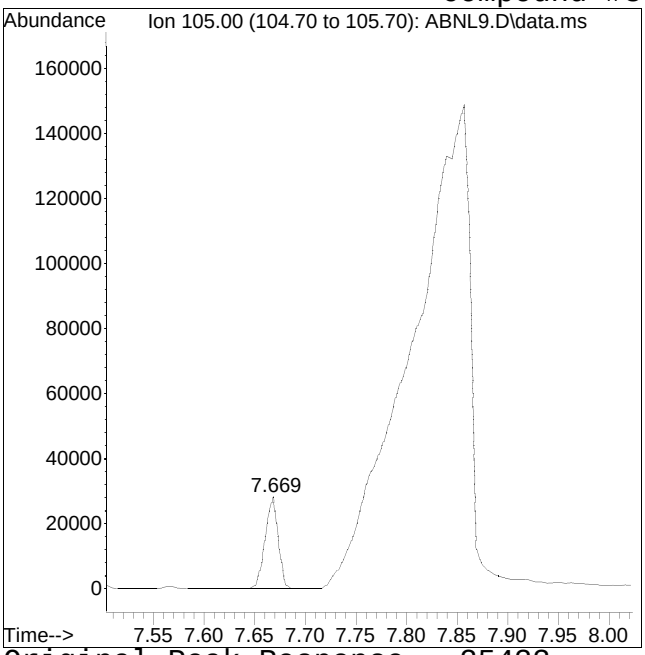


Original Peak Response = 263582 Manual Peak Response = 789847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

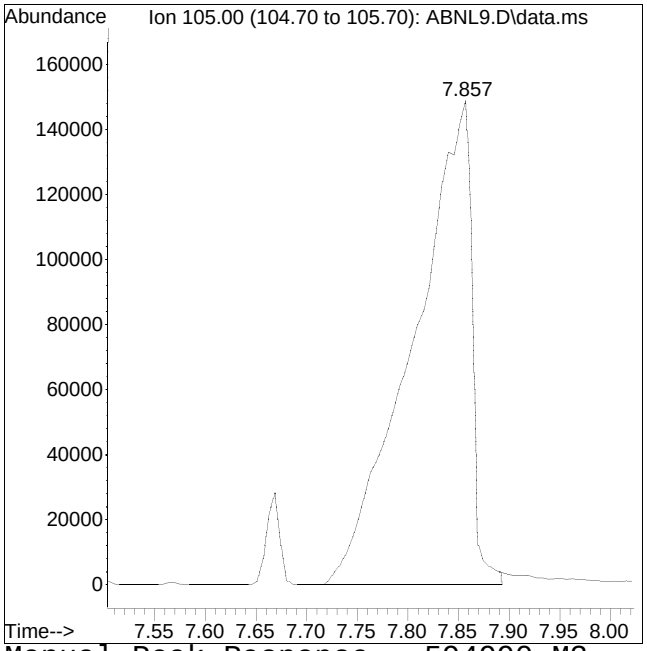
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #36: Benzoic Acid



Original Peak Response = 25433



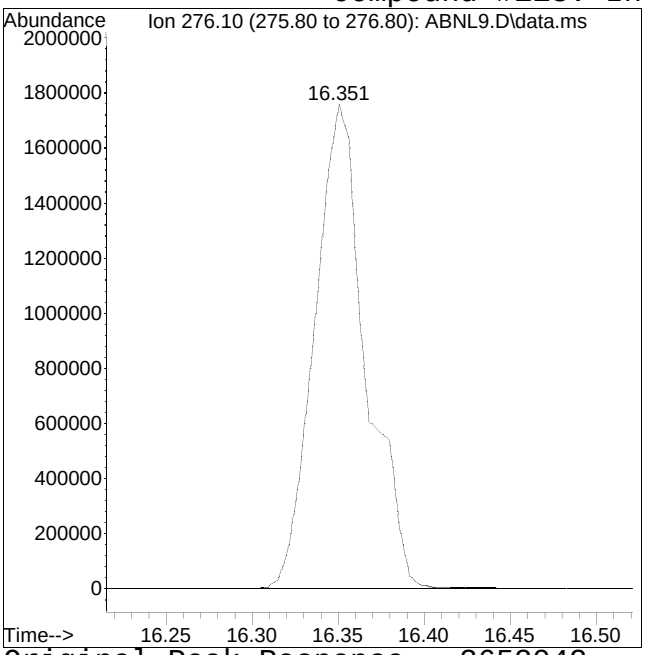
Manual Peak Response = 594990 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

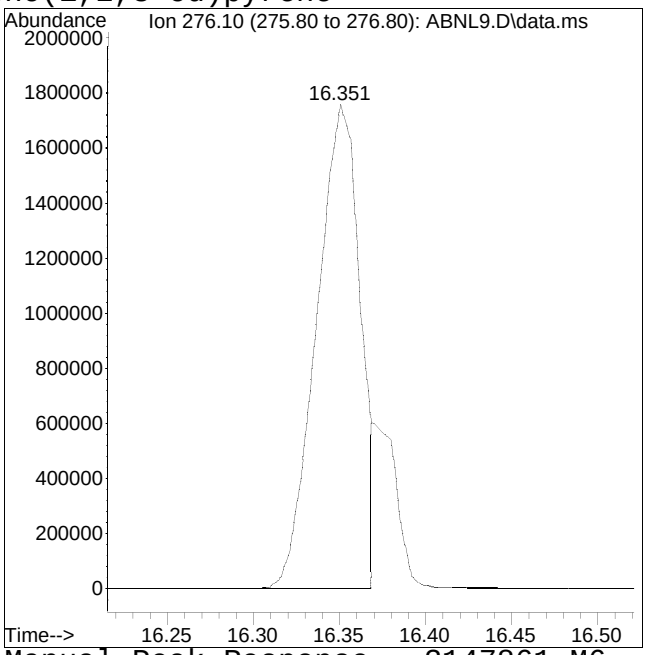
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3652042



Manual Peak Response = 3147861 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	51050	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 98.08%			
34) IS1_Naphthalene-d8	7.957	136	194324	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.09%			
62) IS1_Acenaphthene-d10	9.728	164	124132	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.13%			
87) IS1_Phenanthrene-d10	11.175	188	241731	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.83%			
103) IS1_Chrysene-d12	13.839	240	224950	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.16%			
112) IS1_Perylene-d12	15.321	264	225904	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	352552	23.556	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 1177.80%#			
7) Phenol-d6	6.163	99	434922	22.917	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1145.85%#			
19) Nitrobenzene-d5	7.187	82	410309	23.569	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2356.90%#			
45) 2-Fluorobiphenyl	9.081	172	1039673	23.249	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2324.90%#			
78) 2,4,6-Tribromophenol	10.504	330	143558	30.949	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1547.45%#			
95) 4-Terphenyl-d14	12.769	244	1351933	25.404	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2540.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	231824	22.034	ug/ml#	66
3) Pyridine	2.281	79	385544	25.211	ug/ml#	61
5) Aniline	6.128	93	563724	25.000	ug/ml	97
6) 2-Chlorophenol	6.275	128	390705	23.770	ug/ml	94
8) Phenol	6.175	94	468001	22.620	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	373487	21.751	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	468066	22.974	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	468617	22.426	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	461305	23.165	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	340809	25.054	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	528944	22.815	ug/ml#	46
15) 2-Methylphenol	6.904	108	349944	24.161	ug/ml	98
16) Hexachloroethane	7.122	117	176749	23.754	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.057	70	294321	25.189	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.092	108	370465	23.638	ug/ml	98
20) Nitrobenzene	7.204	77	413557	23.198	ug/ml	99
21) Isophorone	7.487	82	781835	25.448	ug/ml	98
22) 2-Nitrophenol	7.563	139	197511	26.973	ug/ml	90
23) 2,4-Dimethylphenol	7.663	107	365732	29.952	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.757	93	493552	23.811	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	380051	26.587	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	428363	22.967	ug/ml	98
35) Naphthalene	7.981	128	1170952	21.478	ug/ml	99
36) Benzoic Acid	7.816	105	277825	22.504	ug/ml	95
37) 4-Chloroaniline	8.057	65	156133	23.384	ug/ml	87
38) Hexachlorobutadiene	8.145	225	251541	22.748	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	358862	25.938	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	828408	22.873	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	281712	22.747	ug/ml	98
42) Hexachlorocyclopentadiene	8.875	237	280242	34.922	ug/ml	99
43) 2,4,6-Trichlorophenol	8.998	196	312004	28.504	ug/ml	99
44) 2,4,5-Trichlorophenol	9.028	196	337250	28.403	ug/ml	97
46) 2-Chloronaphthalene	9.181	162	862228	23.687	ug/ml	95
47) 2-Nitroaniline	9.292	138	243518	22.111	ug/ml	89
48) 1,4-Dinitrobenzene	9.428	168	117852	22.344	ug/ml	79
49) 1,3-Dinitrobenzene	9.504	168	145584	27.950	ug/ml#	1
50) Dimethyl phthalate	9.504	163	1029527	25.609	ug/ml#	98
51) Acenaphthylene	9.586	152	1356661	24.776	ug/ml	98
52) 2,6-Dinitrotoluene	9.545	165	211629	24.307	ug/ml#	81
53) 1,2-Dinitrobenzene	9.586	168	95068	25.522	ug/ml#	1
63) 3-Nitroaniline	9.698	138	223955	23.843	ug/ml	96
64) Acenaphthene	9.763	154	823091	23.523	ug/ml	93
65) 2,4-Dinitrophenol	9.804	184	120610	24.509	ug/ml#	87
66) Dibenzofuran	9.933	168	1300833	22.643	ug/ml	94
67) 2,4-Dinitrotoluene	9.933	165	305368	24.314	ug/ml	94
68) 4-Nitrophenol	9.886	65	182864	23.092	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	274188	27.902	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	261810	26.280	ug/ml	97
71) Diethyl phthalate	10.198	149	990417	24.518	ug/ml	97
72) Fluorene	10.269	166	987372	22.865	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	489879	22.025	ug/ml	90
74) 4-Nitroaniline	10.298	138	227044	23.991	ug/ml	85
75) 4,6-Dinitro-o-cresol	10.333	198	165521	25.144	ug/ml#	61
76) NDPA/DPA	10.404	169	848079	24.477	ug/ml	94
77) Azobenzene	10.433	77	953697	23.421	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	274899	23.545	ug/ml#	89
80) Hexachlorobenzene	10.810	284	306799	23.810	ug/ml#	87
81) Pentachlorophenol	11.004	266	210091	25.965	ug/ml	99
88) Phenanthrene	11.198	178	1516863	22.574	ug/ml	98
89) Anthracene	11.245	178	1559998	24.573	ug/ml	98
90) Carbazole	11.416	167	1455059	25.268	ug/ml	97
91) Di-n-butylphthalate	11.798	149	1846222	30.130	ug/ml	98
92) Fluoranthene	12.357	202	1819916	25.179	ug/ml#	92
93) Benzidine	12.510	184	1205192	30.881	ug/ml#	95
94) Pyrene	12.580	202	1934804	24.736	ug/ml	98
96) Butyl benzyl phthalate	13.298	149	829584	26.448	ug/ml	93
104) Benzo(a)anthracene	13.833	228	1884961	24.859	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.827	252	714087	31.228	ug/ml#	96
106) Chrysene	13.868	228	1707374	22.372	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	1290107	27.130	ug/ml#	97
108) Di-n-octylphthalate	14.627	149	2208702	27.076	ug/ml#	73
109) Benzo(b)fluoranthene	14.951	252	1772450	26.970	ug/ml#	93
110) Benzo(k)fluoranthene	14.980	252	1628489	23.962	ug/ml#	95
111) Benzo(a)pyrene	15.268	252	1568036	26.614	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	1567480M6	29.474	ug/mL	
114) Dibenzo(a,h)anthracene	16.368	278	1508686	27.054	ug/ml#	91
115) Benzo(ghi)perylene	16.621	276	1341500	23.974	ug/ml#	89

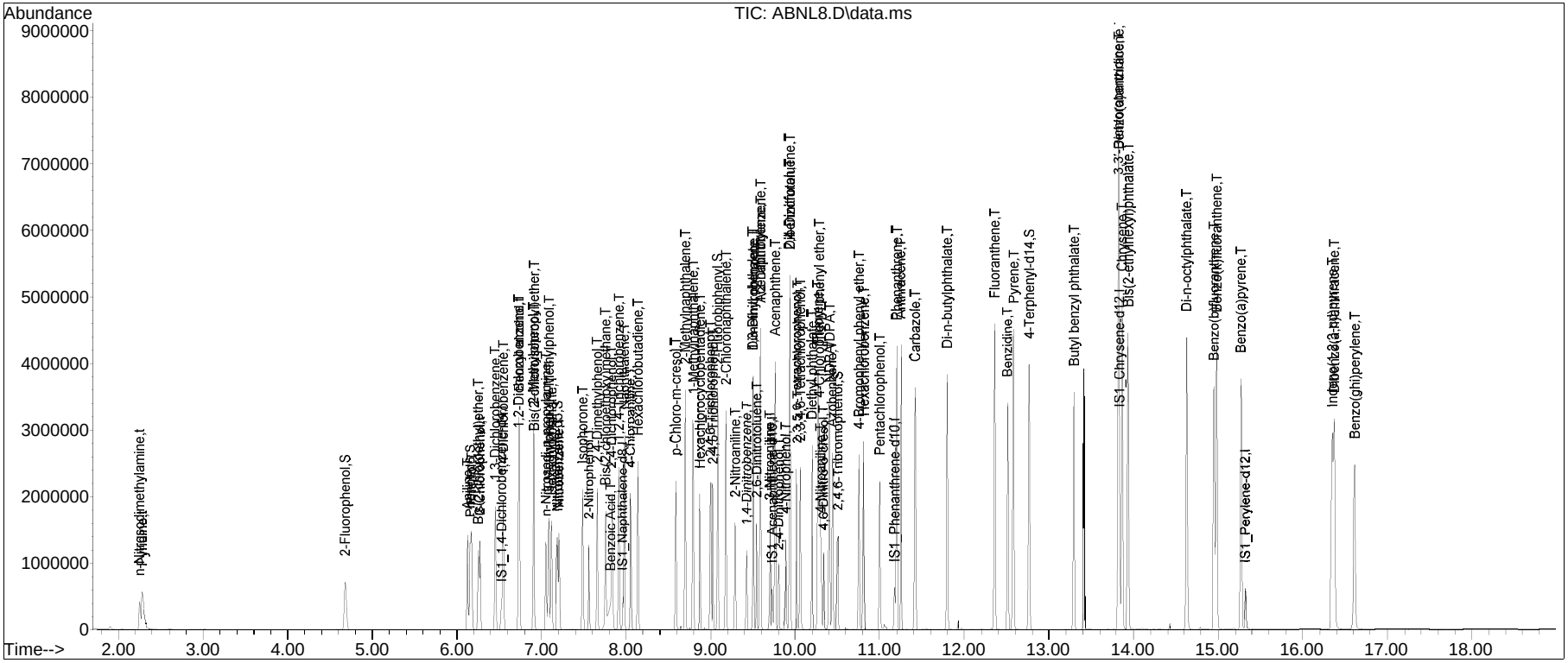
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

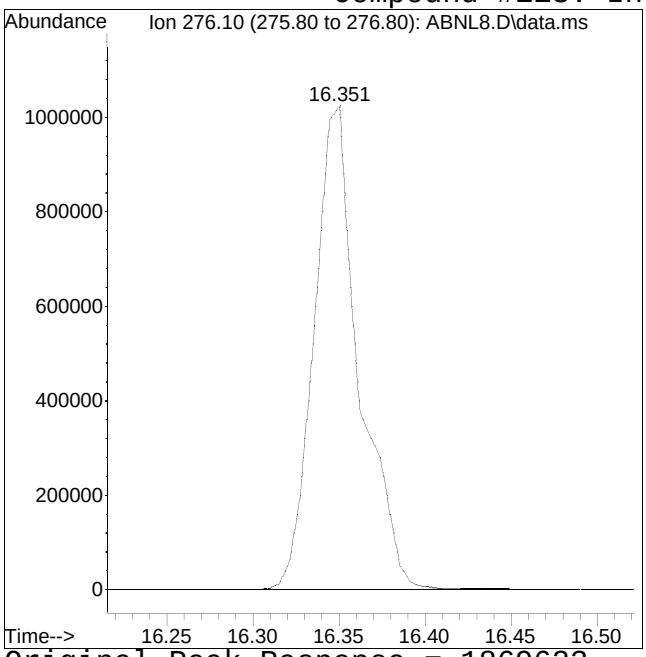
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



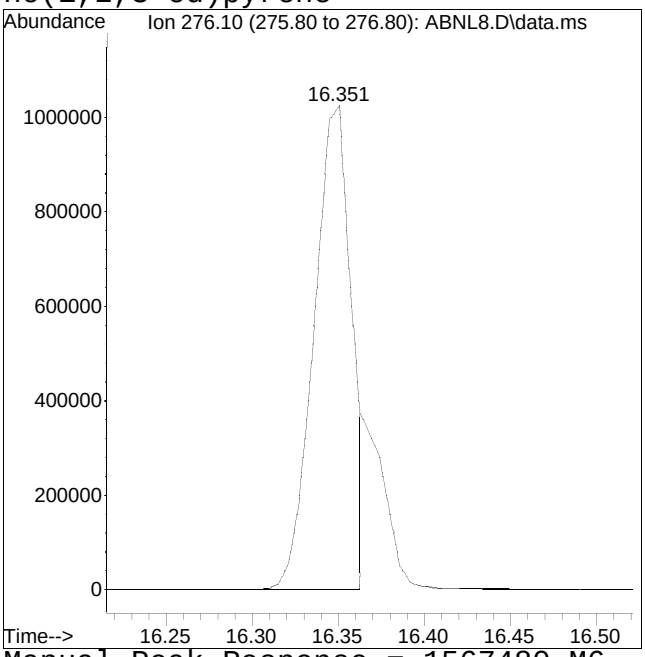
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL8.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:59 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1869623



Manual Peak Response = 1567480 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50580	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 97.17%			
34) IS1_Naphthalene-d8	7.957	136	189779	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 99.70%			
62) IS1_Acenaphthene-d10	9.728	164	120288	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.03%			
87) IS1_Phenanthrene-d10	11.175	188	242511	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 96.14%			
103) IS1_Chrysene-d12	13.839	240	225785	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.52%			
112) IS1_Perylene-d12	15.327	264	227351	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 94.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	140251	9.458	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 472.90%#			
7) Phenol-d6	6.157	99	171152	9.102	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 455.10%#			
19) Nitrobenzene-d5	7.181	82	158345	9.180	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 918.00%#			
45) 2-Fluorobiphenyl	9.081	172	416312	9.533	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 953.30%#			
78) 2,4,6-Tribromophenol	10.498	330	59817	13.308	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 665.40%#			
95) 4-Terphenyl-d14	12.763	244	536294	10.045	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1004.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	91909	8.817	ug/ml#	68
3) Pyridine	2.287	79	149892	9.892	ug/ml#	59
5) Aniline	6.128	93	224771	10.061	ug/ml	97
6) 2-Chlorophenol	6.269	128	153985	9.455	ug/ml	94
8) Phenol	6.175	94	185122	9.031	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	150367	8.838	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	187197	9.274	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	187019	9.033	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	181846	9.216	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	131627	9.766	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.910	45	210116	9.147	ug/ml#	47
15) 2-Methylphenol	6.904	108	136533	9.514	ug/ml	98
16) Hexachloroethane	7.116	117	70827	9.607	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.057	70	116160	10.034	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	145224	9.352	ug/ml	97
20) Nitrobenzene	7.204	77	163172	9.238	ug/ml	98
21) Isophorone	7.481	82	312334	10.261	ug/ml	96
22) 2-Nitrophenol	7.563	139	73882	10.183	ug/ml	91
23) 2,4-Dimethylphenol	7.657	107	142398	11.770	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	196961	9.591	ug/ml	100
25) 2,4-Dichlorophenol	7.828	162	149306	10.542	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	168900	9.140	ug/ml	97
35) Naphthalene	7.975	128	462458	8.686	ug/ml	99
36) Benzoic Acid	7.775	105	97433	8.547	ug/ml	94
37) 4-Chloroaniline	8.057	65	61841	9.484	ug/ml	88
38) Hexachlorobutadiene	8.145	225	102228	9.466	ug/ml	98
39) p-Chloro-m-cresol	8.581	107	141106	10.443	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	332525	9.401	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	113176	9.357	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	106521	13.592	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	125341	11.725	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	129505	11.168	ug/ml	99
46) 2-Chloronaphthalene	9.181	162	342590	9.637	ug/ml	95
47) 2-Nitroaniline	9.292	138	93043	8.819	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	43565	8.665	ug/ml	77
49) 1,3-Dinitrobenzene	9.498	168	53332	10.484	ug/ml#	1
50) Dimethyl phthalate	9.498	163	403736	10.283	ug/ml#	98
51) Acenaphthylene	9.586	152	537132	10.044	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	81168	9.623	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	36142	10.016	ug/ml#	1
63) 3-Nitroaniline	9.698	138	85128	9.353	ug/ml	99
64) Acenaphthene	9.757	154	318784	9.402	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	41498	9.163	ug/ml	89
66) Dibenzofuran	9.928	168	526706	9.461	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	112821	9.357	ug/ml	94
68) 4-Nitrophenol	9.881	65	71517	9.320	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.022	232	110202	11.573	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	105281	10.906	ug/ml	97
71)	Diethyl phthalate	10.192	149	399950	10.217	ug/ml	97
72)	Fluorene	10.263	166	400866	9.580	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.281	204	203850	9.458	ug/ml	89
74)	4-Nitroaniline	10.292	138	90166	9.832	ug/ml	84
75)	4,6-Dinitro-o-cresol	10.328	198	61794	9.921	ug/ml#	61
76)	NDPA/DPA	10.398	169	346541	10.322	ug/ml	96
77)	Azobenzene	10.433	77	391138	9.913	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	113207	10.006	ug/ml#	88
80)	Hexachlorobenzene	10.810	284	126399	10.123	ug/ml#	87
81)	Pentachlorophenol	11.004	266	82964	10.741	ug/ml	99
88)	Phenanthrene	11.192	178	617237	9.156	ug/ml	99
89)	Anthracene	11.245	178	640850	10.062	ug/ml	99
90)	Carbazole	11.410	167	585984	10.143	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	738655	12.016	ug/ml	99
92)	Fluoranthene	12.357	202	737284	10.168	ug/ml#	92
93)	Benzidine	12.510	184	483670	12.353	ug/ml#	95
94)	Pyrene	12.574	202	780477	9.946	ug/ml	99
96)	Butyl benzyl phthalate	13.298	149	315052	10.773	ug/ml	92
104)	Benzo(a)anthracene	13.827	228	782320	10.279	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.827	252	281272	12.255	ug/ml#	97
106)	Chrysene	13.868	228	707807	9.240	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.945	149	509174	11.959	ug/ml#	95
108)	Di-n-octylphthalate	14.633	149	832000	11.991	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	709383	10.754	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	689771	10.112	ug/ml#	93
111)	Benzo(a)pyrene	15.274	252	632662	10.698	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	632674M6	11.821	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	627698	11.184	ug/ml#	91
115)	Benzo(ghi)perylene	16.615	276	579928	10.298	ug/ml#	88

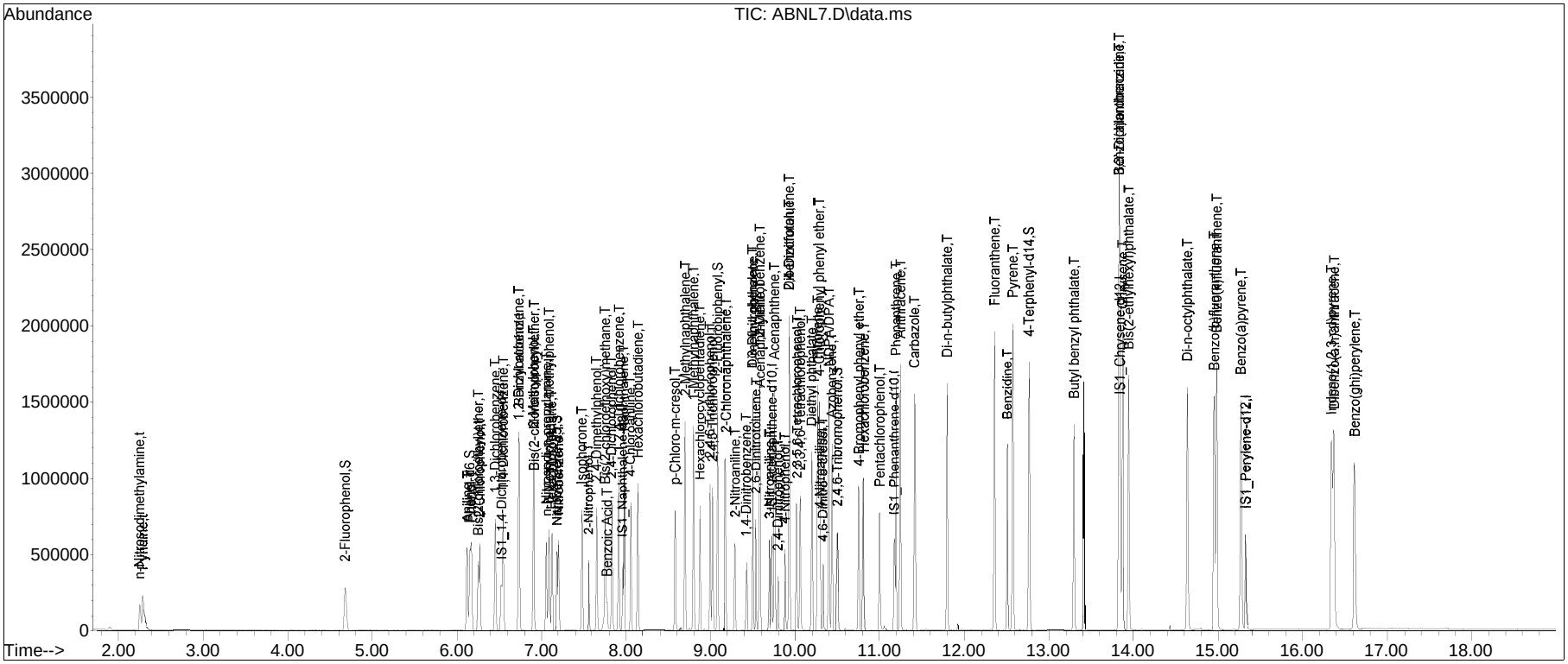
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

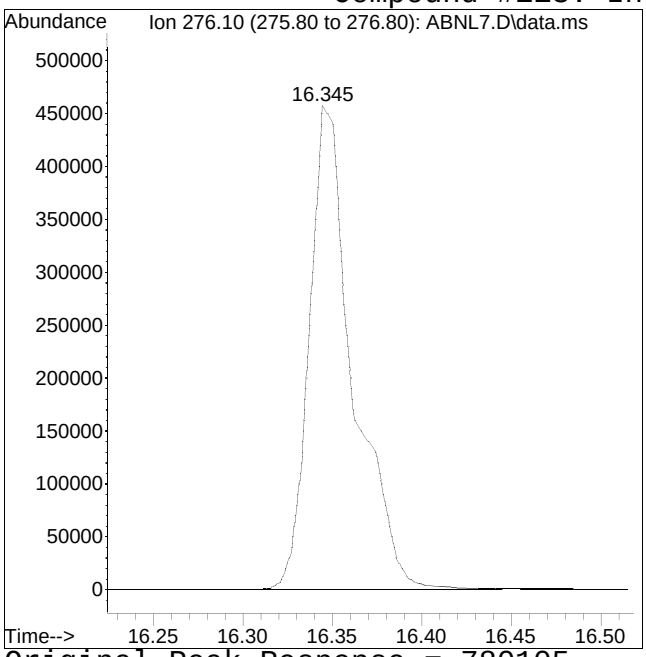
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



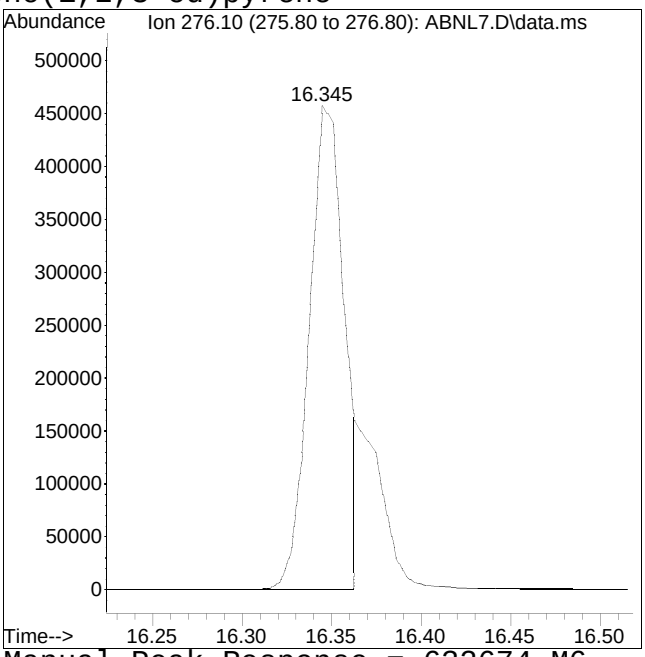
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL7.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:24 pm Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 780105



Manual Peak Response = 632674 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52051	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.957	136	190351	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.728	164	123969	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	11.169	188	252252	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 100.00%			
103) IS1_Chrysene-d12	13.839	240	233929	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 100.00%			
112) IS1_Perylene-d12	15.321	264	241074	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	67481	4.422	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 221.10%#			
7) Phenol-d6	6.157	99	82234	4.250	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 212.50%#			
19) Nitrobenzene-d5	7.187	82	75078	4.230	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 423.00%#			
45) 2-Fluorobiphenyl	9.081	172	195530	4.464	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.40%#			
78) 2,4,6-Tribromophenol	10.498	330	27324	5.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 294.90%#			
95) 4-Terphenyl-d14	12.763	244	252334	4.544	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 454.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.269	74	44897	4.185	ug/ml#	68
3) Pyridine	2.316	79	74928	4.805	ug/ml#	60
5) Aniline	6.128	93	106131	4.616	ug/ml	96
6) 2-Chlorophenol	6.275	128	73258	4.371	ug/ml	95
8) Phenol	6.175	94	88385	4.190	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	71054	4.058	ug/ml#	83
10) 1,3-Dichlorobenzene	6.457	146	88597	4.265	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	90239	4.235	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	86995	4.285	ug/ml	97

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	61710	4.449	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	97707	4.133	ug/ml#	46
15) 2-Methylphenol	6.904	108	64538	4.370	ug/ml	98
16) Hexachloroethane	7.122	117	33608	4.430	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	54342	4.561	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.087	108	70342	4.402	ug/ml	99
20) Nitrobenzene	7.204	77	77212	4.248	ug/ml	97
21) Isophorone	7.481	82	146190	4.667	ug/ml	97
22) 2-Nitrophenol	7.563	139	32431	4.344	ug/ml#	91
23) 2,4-Dimethylphenol	7.657	107	68596	5.510	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.751	93	91731	4.340	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	71051	4.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	79423	4.177	ug/ml	97
35) Naphthalene	7.975	128	219752	4.115	ug/ml	99
36) Benzoic Acid	7.751	105	39209	3.814	ug/ml	93
37) 4-Chloroaniline	8.057	65	28470	4.353	ug/ml	86
38) Hexachlorobutadiene	8.145	225	46528	4.296	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	65253	4.815	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	155750	4.390	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	52377	4.318	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	46736	5.945	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	57691	5.380	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	60992	5.244	ug/ml	99
46) 2-Chloronaphthalene	9.175	162	160578	4.503	ug/ml	96
47) 2-Nitroaniline	9.286	138	41476	4.073	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	18043	3.774	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	23649	4.635	ug/ml#	1
50) Dimethyl phthalate	9.492	163	192449	4.887	ug/ml#	98
51) Acenaphthylene	9.581	152	249719	4.656	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37890	4.546	ug/ml#	81
53) 1,2-Dinitrobenzene	9.581	168	16640	4.669	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39765	4.239	ug/ml	98
64) Acenaphthene	9.757	154	150990	4.321	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	17570	4.186	ug/ml#	88
66) Dibenzofuran	9.928	168	248513	4.331	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	50309	4.128	ug/ml	93
68) 4-Nitrophenol	9.880	65	32068	4.055	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.016	232	49938	5.089	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	49836	5.009	ug/ml		99
71)	Diethyl phthalate	10.192	149	185259	4.592	ug/ml		97
72)	Fluorene	10.263	166	191054	4.430	ug/ml		93
73)	4-Chlorophenyl phenyl ...	10.280	204	95118	4.282	ug/ml		89
74)	4-Nitroaniline	10.286	138	38840	4.109	ug/ml	#	87
75)	4,6-Dinitro-o-cresol	10.322	198	24123	3.994	ug/ml	#	63
76)	NDPA/DPA	10.398	169	163792	4.734	ug/ml		95
77)	Azobenzene	10.433	77	185513	4.562	ug/ml		97
79)	4-Bromophenyl phenyl e...	10.751	248	53585	4.596	ug/ml	#	87
80)	Hexachlorobenzene	10.810	284	60424	4.696	ug/ml	#	86
81)	Pentachlorophenol	11.004	266	36681	4.762	ug/ml		98
88)	Phenanthrene	11.192	178	298395	4.256	ug/ml		99
89)	Anthracene	11.245	178	297441	4.490	ug/ml		98
90)	Carbazole	11.410	167	277150	4.612	ug/ml		98
91)	Di-n-butylphthalate	11.798	149	329073	5.146	ug/ml		99
92)	Fluoranthene	12.357	202	344549	4.568	ug/ml	#	91
93)	Benzidine	12.504	184	212574	5.220	ug/ml	#	95
94)	Pyrene	12.574	202	366283	4.488	ug/ml		99
96)	Butyl benzyl phthalate	13.292	149	133030	4.681	ug/ml		93
104)	Benzo(a)anthracene	13.827	228	356055	4.515	ug/ml		99
105)	3,3'-Dichlorobenzidine	13.821	252	126297	5.311	ug/ml	#	96
106)	Chrysene	13.863	228	340032	4.284	ug/ml		98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	216588	5.250	ug/ml	#	95
108)	Di-n-octylphthalate	14.627	149	335349	5.215	ug/ml	#	74
109)	Benzo(b)fluoranthene	14.951	252	323786	4.738	ug/ml	#	94
110)	Benzo(k)fluoranthene	14.974	252	322366	4.561	ug/ml	#	93
111)	Benzo(a)pyrene	15.268	252	286717	4.680	ug/ml	#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	267407M6	4.712	ug/mL		
114)	Dibenzo(a,h)anthracene	16.368	278	289650	4.867	ug/ml	#	90
115)	Benzo(ghi)perylene	16.615	276	264525	4.430	ug/ml	#	88

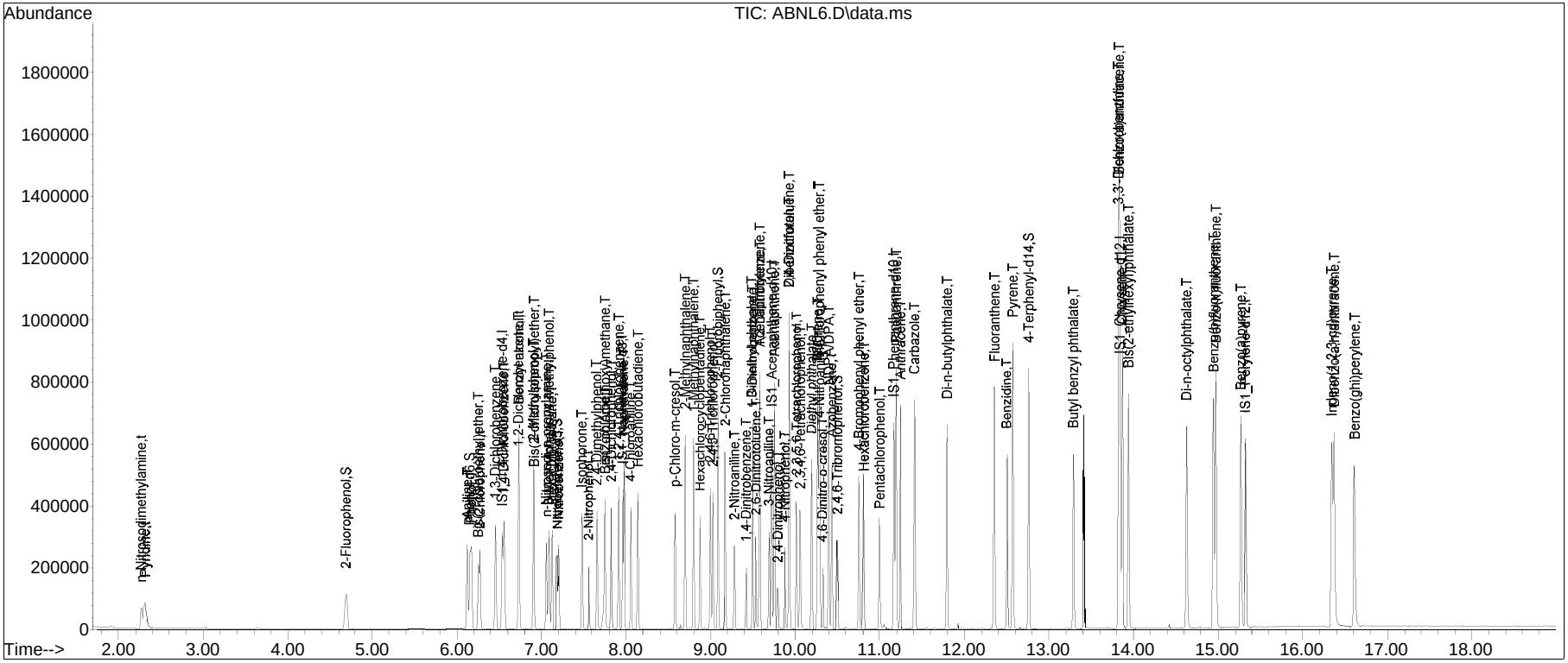
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

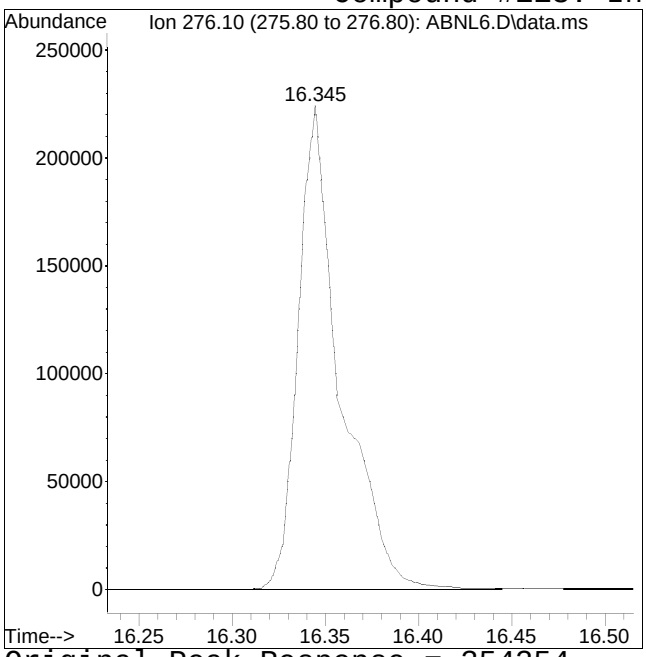
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



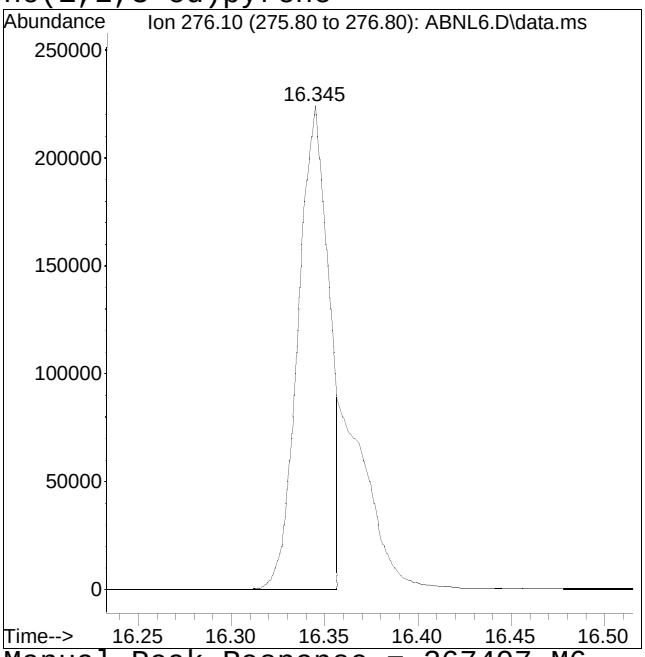
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL6.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:50 pm Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10694 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 354354



Manual Peak Response = 267407 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	51948	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 99.80%				
34) IS1_Naphthalene-d8	7.957	136	191507	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 100.61%				
62) IS1_Acenaphthene-d10	9.728	164	118652	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 95.71%				
87) IS1_Phenanthrene-d10	11.169	188	243366	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 96.48%				
103) IS1_Chrysene-d12	13.839	240	223632	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 95.60%				
112) IS1_Perylene-d12	15.327	264	232683	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 96.52%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	32992	2.166	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 108.30%				
7) Phenol-d6	6.157	99	40252	2.084	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 104.20%				
19) Nitrobenzene-d5	7.187	82	34681	1.958	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 195.80%#				
45) 2-Fluorobiphenyl	9.081	172	98186	2.228	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 222.80%#				
78) 2,4,6-Tribromophenol	10.498	330	12813	2.890	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 144.50%#				
95) 4-Terphenyl-d14	12.763	244	126539	2.362	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 236.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.269	74	21694	2.026	ug/ml	#	69
3) Pyridine	2.316	79	36569	2.350	ug/ml	#	60
5) Aniline	6.128	93	52329	2.281	ug/ml		97
6) 2-Chlorophenol	6.269	128	35639	2.131	ug/ml		94
8) Phenol	6.169	94	43788	2.080	ug/ml		98
9) Bis(2-chloroethyl)ether	6.251	93	35010	2.004	ug/ml	#	85
10) 1,3-Dichlorobenzene	6.457	146	43832	2.114	ug/ml		98
11) 1,4-Dichlorobenzene	6.551	146	44202	2.079	ug/ml		99
12) 1,2-Dichlorobenzene	6.728	146	42719	2.108	ug/ml		98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	29820	2.154	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	47835	2.028	ug/ml#	46
15) 2-Methylphenol	6.904	108	30807	2.090	ug/ml	99
16) Hexachloroethane	7.122	117	15915	2.102	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	26538	2.232	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	33130	2.077	ug/ml	97
20) Nitrobenzene	7.204	77	36114	1.991	ug/ml	98
21) Isophorone	7.481	82	71350	2.282	ug/ml	97
22) 2-Nitrophenol	7.563	139	15185	2.038	ug/ml	90
23) 2,4-Dimethylphenol	7.657	107	33295	2.680	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	45647	2.164	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	33869	2.328	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.910	180	39855	2.100	ug/ml	96
35) Naphthalene	7.975	128	112832	2.100	ug/ml	99
36) Benzoic Acid	7.734	105	14867	1.830	ug/ml	93
37) 4-Chloroaniline	8.057	65	14733	2.239	ug/ml	90
38) Hexachlorobutadiene	8.145	225	23200	2.129	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	31428	2.305	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	76915	2.155	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	26576	2.177	ug/ml	95
42) Hexachlorocyclopentadiene	8.875	237	22844	2.889	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	27480	2.547	ug/ml	100
44) 2,4,5-Trichlorophenol	9.022	196	29318	2.505	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	80609	2.247	ug/ml	96
47) 2-Nitroaniline	9.286	138	17978	1.912	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	7891	1.829	ug/ml	85
49) 1,3-Dinitrobenzene	9.498	168	10078	1.963	ug/ml#	1
50) Dimethyl phthalate	9.492	163	96348	2.432	ug/ml#	98
51) Acenaphthylene	9.581	152	122095	2.263	ug/ml	99
52) 2,6-Dinitrotoluene	9.534	165	17364	2.140	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	7673	2.212	ug/ml#	1
63) 3-Nitroaniline	9.692	138	18646	2.077	ug/ml	99
64) Acenaphthene	9.757	154	73152	2.187	ug/ml	91
65) 2,4-Dinitrophenol	9.798	184	7098	2.180	ug/ml	88
66) Dibenzofuran	9.928	168	124602	2.269	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	22438	1.998	ug/ml	93
68) 4-Nitrophenol	9.881	65	15543	2.053	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.016	232	24185	2.575	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	23877	2.507	ug/ml	98
71)	Diethyl phthalate	10.192	149	94958	2.459	ug/ml	97
72)	Fluorene	10.263	166	95021	2.302	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.281	204	48015	2.258	ug/ml	89
74)	4-Nitroaniline	10.286	138	19073	2.108	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	10235	1.982	ug/ml#	65
76)	NDPA/DPA	10.398	169	82088	2.479	ug/ml	95
77)	Azobenzene	10.433	77	91105	2.341	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	26481	2.373	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	30207	2.453	ug/ml#	85
81)	Pentachlorophenol	11.004	266	17540	2.514	ug/ml	99
88)	Phenanthrene	11.192	178	148667	2.198	ug/ml	99
89)	Anthracene	11.245	178	149282	2.336	ug/ml	99
90)	Carbazole	11.410	167	136900	2.361	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	151033	2.448	ug/ml	99
92)	Fluoranthene	12.357	202	171304	2.354	ug/ml#	92
93)	Benzidine	12.504	184	98680	2.512	ug/ml#	94
94)	Pyrene	12.574	202	183111	2.325	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	59665	2.388	ug/ml	94
104)	Benzo(a)anthracene	13.827	228	176990	2.348	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	58805	2.587	ug/ml#	96
106)	Chrysene	13.863	228	173773	2.290	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	98585	2.626	ug/ml#	96
108)	Di-n-octylphthalate	14.633	149	149078	2.664	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	163103	2.496	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	157224	2.327	ug/ml#	94
111)	Benzo(a)pyrene	15.274	252	141779	2.421	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.351	276	139453M6	2.546	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	138436	2.410	ug/ml#	90
115)	Benzo(ghi)perylene	16.621	276	135255	2.347	ug/ml#	87

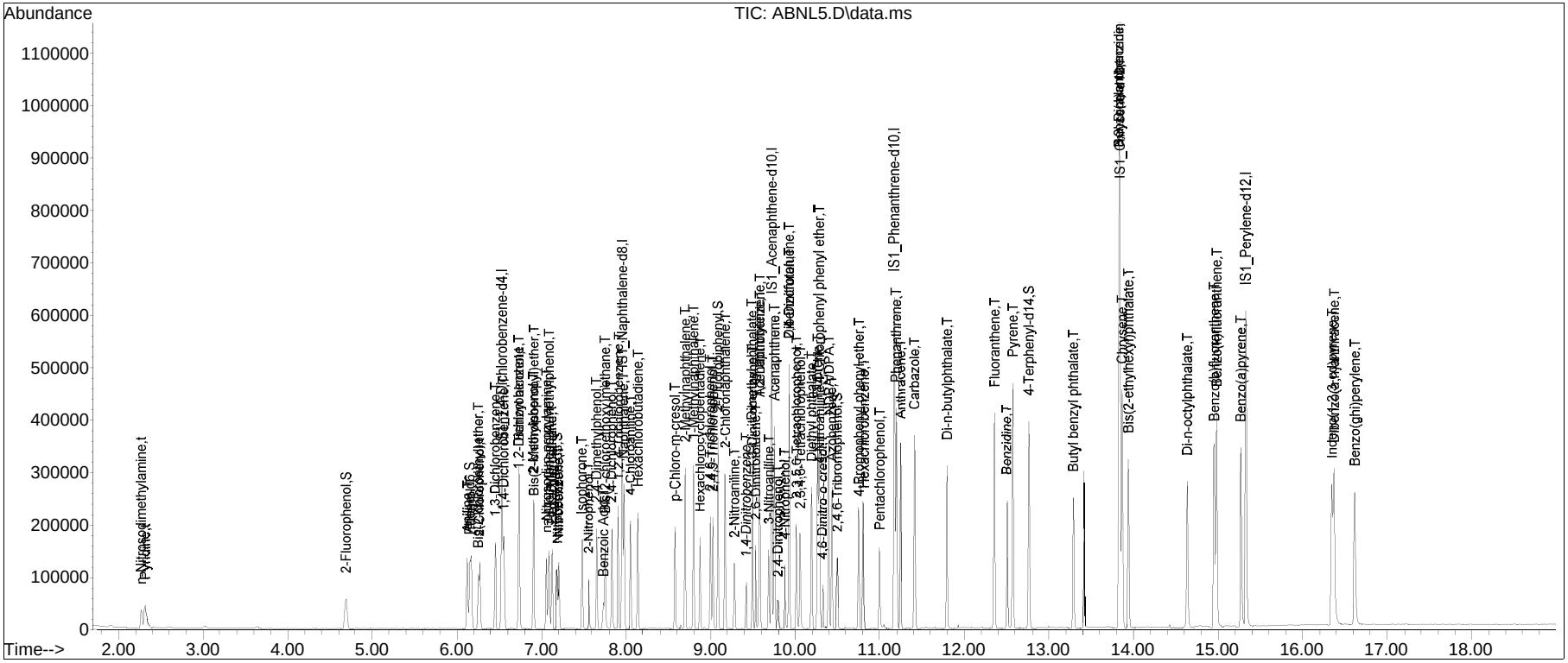
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

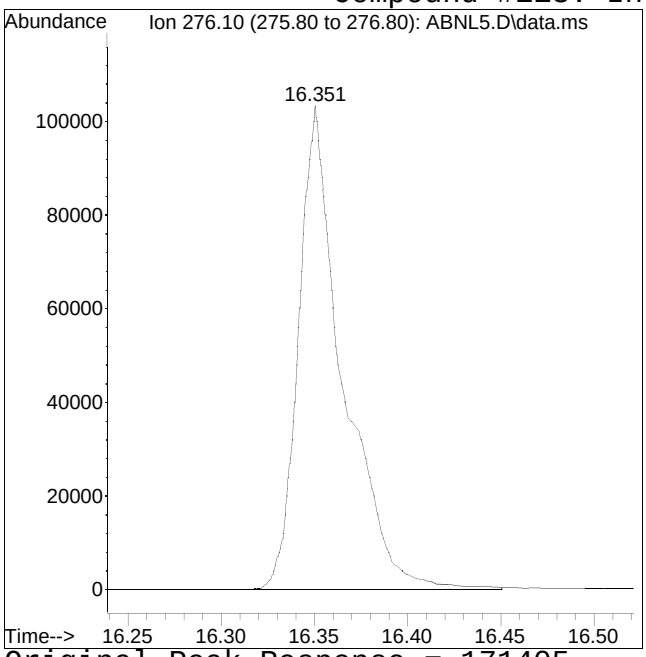
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



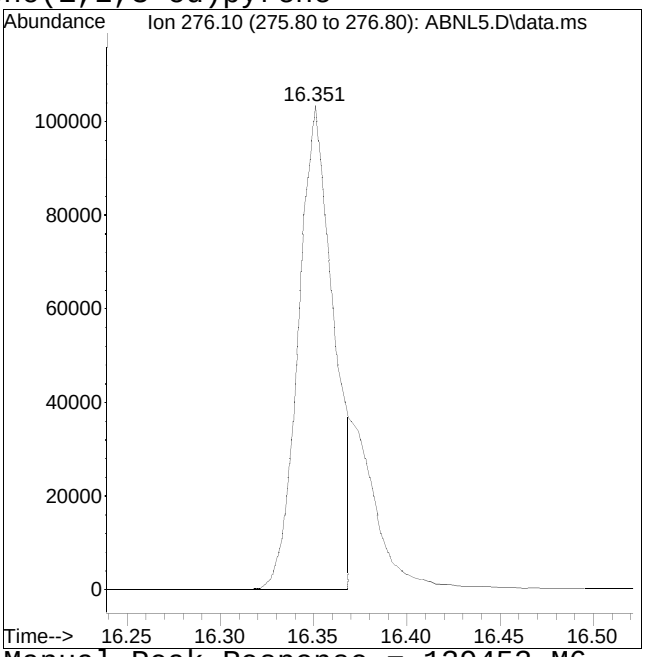
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL5.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:15 pm Instrument : SV107
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 171405



Manual Peak Response = 139453 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	47882	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 91.99%			
34) IS1_Naphthalene-d8	7.957	136	173049	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 90.91%			
62) IS1_Acenaphthene-d10	9.728	164	107016	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 86.32%			
87) IS1_Phenanthrene-d10	11.175	188	213882	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 84.79%			
103) IS1_Chrysene-d12	13.839	240	198208	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 84.73%			
112) IS1_Perylene-d12	15.327	264	204859	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	11542	0.822	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.10%			
7) Phenol-d6	6.157	99	14374	0.807	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.35%			
19) Nitrobenzene-d5	7.187	82	12092	0.741	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.10%			
45) 2-Fluorobiphenyl	9.081	172	34242	0.860	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.00%			
78) 2,4,6-Tribromophenol	10.498	330	4507	1.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 56.35%			
95) 4-Terphenyl-d14	12.763	244	43560	0.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 92.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	7670	0.777	ug/ml#	72
3) Pyridine	2.322	79	12809	0.893	ug/ml#	59
5) Aniline	6.128	93	18846	0.891	ug/ml	96
6) 2-Chlorophenol	6.275	128	12212	0.792	ug/ml	94
8) Phenol	6.175	94	15459	0.797	ug/ml	96
9) Bis(2-chloroethyl)ether	6.251	93	12397	0.770	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	15335	0.802	ug/ml	96
11) 1,4-Dichlorobenzene	6.551	146	15625	0.797	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	15217	0.815	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	10673	0.837	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	17153	0.789	ug/ml#	45
15) 2-Methylphenol	6.904	108	10850	0.799	ug/ml	97
16) Hexachloroethane	7.122	117	5695	0.816	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	9423	0.860	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.087	108	11799	0.803	ug/ml	95
20) Nitrobenzene	7.204	77	12536	0.750	ug/ml	95
21) Isophorone	7.487	82	25850	0.897	ug/ml	97
22) 2-Nitrophenol	7.563	139	4723	0.688	ug/ml#	93
23) 2,4-Dimethylphenol	7.657	107	12053	1.052	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	16927	0.871	ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	11726	0.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	13712	0.784	ug/ml	97
35) Naphthalene	7.975	128	38557	0.794	ug/ml	99
36) Benzoic Acid	7.722	105	2689	0.869	ug/ml#	84
37) 4-Chloroaniline	8.057	65	4974	0.837	ug/ml	82
38) Hexachlorobutadiene	8.145	225	7822	0.794	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	11029	0.895	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	27453	0.851	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	9382	0.851	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	7325	1.025	ug/ml	96
43) 2,4,6-Trichlorophenol	8.992	196	9310	0.955	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	9747	0.922	ug/ml	96
46) 2-Chloronaphthalene	9.175	162	28231	0.871	ug/ml	96
47) 2-Nitroaniline	9.292	138	5856	0.866	ug/ml	93
48) 1,4-Dinitrobenzene	9.422	168	2377	0.833	ug/ml	90
49) 1,3-Dinitrobenzene	9.498	168	3227	0.696	ug/ml#	1
50) Dimethyl phthalate	9.492	163	34231	0.956	ug/ml#	98
51) Acenaphthylene	9.581	152	43434	0.891	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	5358	0.814	ug/ml	86
53) 1,2-Dinitrobenzene	9.581	168	2371	0.843	ug/ml#	1
63) 3-Nitroaniline	9.692	138	5549	0.685	ug/ml#	91
64) Acenaphthene	9.757	154	27580	0.914	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	1637	1.089	ug/ml	88
66) Dibenzofuran	9.928	168	44001	0.888	ug/ml	94
67) 2,4-Dinitrotoluene	9.928	165	6766	0.761	ug/ml#	86
68) 4-Nitrophenol	9.880	65	4785	0.701	ug/ml#	92
69) 2,3,5,6-Tetrachlorophenol	10.022	232	7620	0.899	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	7797	0.908	ug/ml	99
71)	Diethyl phthalate	10.192	149	32198	0.925	ug/ml	97
72)	Fluorene	10.263	166	33268	0.894	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	16775	0.875	ug/ml	89
74)	4-Nitroaniline	10.286	138	5890	0.722	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.322	198	2568	0.826	ug/ml#	82
76)	NDPA/DPA	10.398	169	28267	0.946	ug/ml	93
77)	Azobenzene	10.433	77	31686	0.903	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	8962	0.890	ug/ml#	89
80)	Hexachlorobenzene	10.810	284	11017	0.992	ug/ml#	87
81)	Pentachlorophenol	11.004	266	4887	0.963	ug/ml	99
88)	Phenanthrene	11.192	178	52508	0.883	ug/ml	98
89)	Anthracene	11.245	178	50911	0.906	ug/ml	99
90)	Carbazole	11.410	167	47456	0.931	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	49974	0.922	ug/ml	99
92)	Fluoranthene	12.357	202	58826	0.920	ug/ml#	92
93)	Benzidine	12.504	184	30384	0.880	ug/ml#	95
94)	Pyrene	12.574	202	64332	0.930	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	17420	1.040	ug/ml	98
104)	Benzo(a)anthracene	13.827	228	60892	0.911	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	18732	0.930	ug/ml#	97
106)	Chrysene	13.863	228	62455	0.929	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	27519	0.935	ug/ml#	94
108)	Di-n-octylphthalate	14.627	149	39122	1.025	ug/ml#	78
109)	Benzo(b)fluoranthene	14.951	252	51194	0.884	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	55477	0.926	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	46234	0.891	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.339	276	41077M6	0.852	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	46981	0.929	ug/ml#	91
115)	Benzo(ghi)perylene	16.609	276	46738	0.921	ug/ml#	88

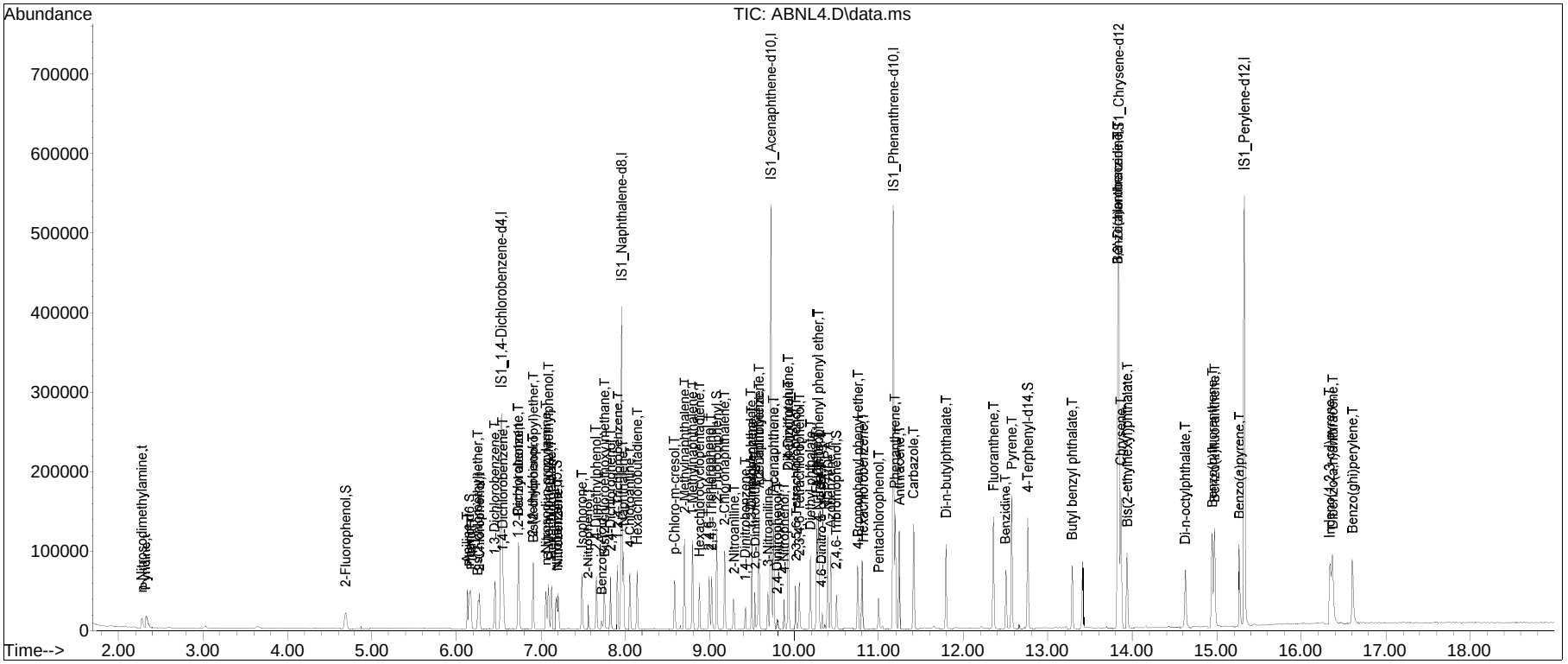
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

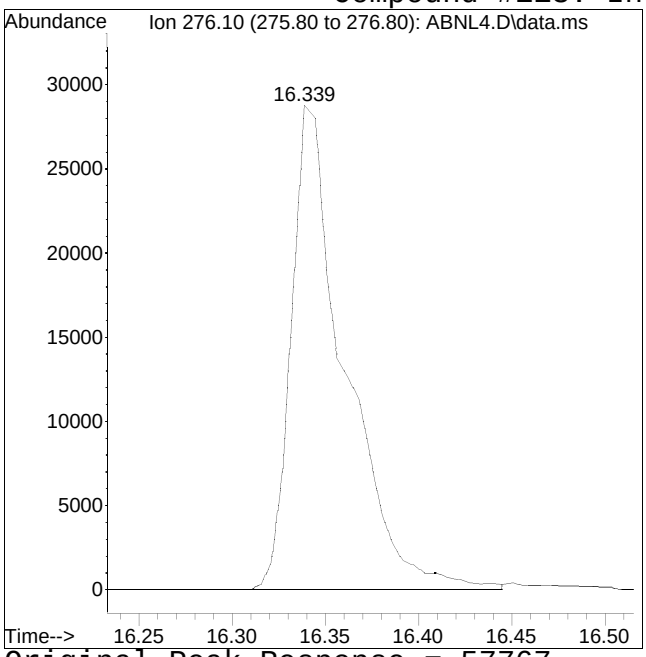
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



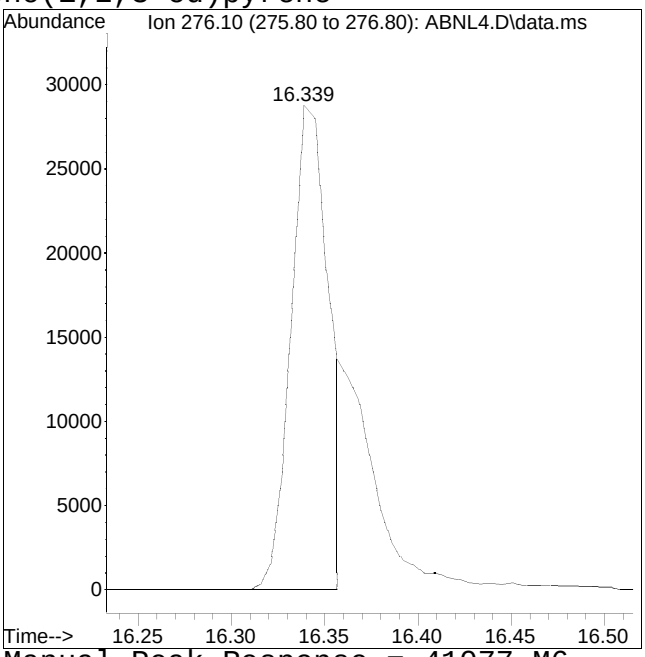
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL4.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:40 pm Instrument : SV107
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 57767



Manual Peak Response = 41077 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	45910	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 88.20%			
34) IS1_Naphthalene-d8	7.957	136	170517	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 89.58%			
62) IS1_Acenaphthene-d10	9.727	164	104536	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 84.32%			
87) IS1_Phenanthrene-d10	11.168	188	215844	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 85.57%			
103) IS1_Chrysene-d12	13.839	240	194131	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 82.99%			
112) IS1_Perylene-d12	15.327	264	212656	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 88.21%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	6630	0.493	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%			
7) Phenol-d6	6.157	99	8372	0.491	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.55%			
19) Nitrobenzene-d5	7.186	82	6623	0.423	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.30%			
45) 2-Fluorobiphenyl	9.080	172	20041	0.511	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.10%			
78) 2,4,6-Tribromophenol	10.498	330	2183	0.559	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.95%			
95) 4-Terphenyl-d14	12.762	244	24689	0.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	4316	0.456	ug/ml#	76
3) Pyridine	2.328	79	7601	0.553	ug/ml#	57
5) Aniline	6.128	93	10454	0.516	ug/ml	97
6) 2-Chlorophenol	6.275	128	7248	0.490	ug/ml	91
8) Phenol	6.175	94	8946	0.481	ug/ml	98
9) Bis(2-chloroethyl)ether	6.257	93	7474	0.484	ug/ml	87
10) 1,3-Dichlorobenzene	6.457	146	8644	0.472	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	8910	0.474	ug/ml	93
12) 1,2-Dichlorobenzene	6.733	146	8601	0.480	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	5941	0.486	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.910	45	10112	0.485	ug/ml#	48
15) 2-Methylphenol	6.904	108	6154	0.472	ug/ml	97
16) Hexachloroethane	7.122	117	3438	0.514	ug/ml#	71
17) n-Nitrosodi-n-propylamine	7.063	70	5048	0.480	ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.086	108	6220	0.441	ug/ml	96
20) Nitrobenzene	7.204	77	6977	0.435	ug/ml	91
21) Isophorone	7.486	82	13605	0.492	ug/ml	97
22) 2-Nitrophenol	7.563	139	2382	0.362	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	6407	0.583	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.751	93	9006	0.483	ug/ml#	98
25) 2,4-Dichlorophenol	7.828	162	6393	0.497	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.910	180	8107	0.483	ug/ml	95
35) Naphthalene	7.975	128	22638	0.473	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	2759	0.471	ug/ml	88
38) Hexachlorobutadiene	8.145	225	4841	0.499	ug/ml	97
39) p-Chloro-m-cresol	8.580	107	5428	0.447	ug/ml	95
40) 2-Methylnaphthalene	8.698	142	15343	0.483	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	5220	0.480	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	4257	0.605	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	4869	0.507	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	5185	0.498	ug/ml	97
46) 2-Chloronaphthalene	9.175	162	16161	0.506	ug/ml	96
47) 2-Nitroaniline	9.286	138	3064	0.589	ug/ml	91
48) 1,4-Dinitrobenzene	9.422	168	1225	0.595	ug/ml	83
49) 1,3-Dinitrobenzene	9.498	168	1423	0.311	ug/ml#	1
50) Dimethyl phthalate	9.492	163	18011	0.511	ug/ml	98
51) Acenaphthylene	9.580	152	23230	0.483	ug/ml	98
52) 2,6-Dinitrotoluene	9.533	165	2476	0.449	ug/ml#	86
53) 1,2-Dinitrobenzene	9.580	168	1131	0.477	ug/ml#	1
63) 3-Nitroaniline	9.692	138	2827	0.357	ug/ml#	95
64) Acenaphthene	9.757	154	15043	0.511	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	528	0.839	ug/ml#	25
66) Dibenzofuran	9.927	168	23909	0.494	ug/ml	92
67) 2,4-Dinitrotoluene	9.927	165	3243	0.445	ug/ml#	84
68) 4-Nitrophenol	9.880	65	2237	0.335	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.022	232	4086	0.494	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	3872	0.462	ug/ml	99
71)	Diethyl phthalate	10.192	149	17886	0.526	ug/ml	99
72)	Fluorene	10.263	166	18068	0.497	ug/ml	91
73)	4-Chlorophenyl phenyl ...	10.280	204	9280	0.495	ug/ml	90
74)	4-Nitroaniline	10.286	138	2755	0.346	ug/ml#	91
75)	4,6-Dinitro-o-cresol	10.321	198	1106	0.577	ug/ml#	72
76)	NDPA/DPA	10.398	169	15682	0.537	ug/ml	96
77)	Azobenzene	10.427	77	17021	0.496	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.751	248	5266	0.536	ug/ml#	86
80)	Hexachlorobenzene	10.804	284	5909	0.545	ug/ml#	89
81)	Pentachlorophenol	11.004	266	2114	0.577	ug/ml	98
88)	Phenanthrene	11.192	178	30473	0.508	ug/ml	99
89)	Anthracene	11.239	178	29062	0.513	ug/ml	99
90)	Carbazole	11.410	167	25772	0.501	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	25628	0.468	ug/ml	98
92)	Fluoranthene	12.351	202	32526	0.504	ug/ml#	92
93)	Benzidine	12.504	184	15314	0.439	ug/ml#	93
94)	Pyrene	12.574	202	35309	0.506	ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	8253	0.683	ug/ml#	97
104)	Benzo(a)anthracene	13.827	228	33174	0.507	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	9158	0.464	ug/ml	98
106)	Chrysene	13.862	228	33894	0.515	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	13528	0.542	ug/ml	95
108)	Di-n-octylphthalate	14.627	149	17580	0.643	ug/ml#	79
109)	Benzo(b)fluoranthene	14.951	252	28728	0.507	ug/ml#	95
110)	Benzo(k)fluoranthene	14.980	252	29824	0.509	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	25584	0.503	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.345	276	21117M6	0.422	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	25041	0.477	ug/ml#	88
115)	Benzo(ghi)perylene	16.615	276	26511	0.503	ug/ml#	84

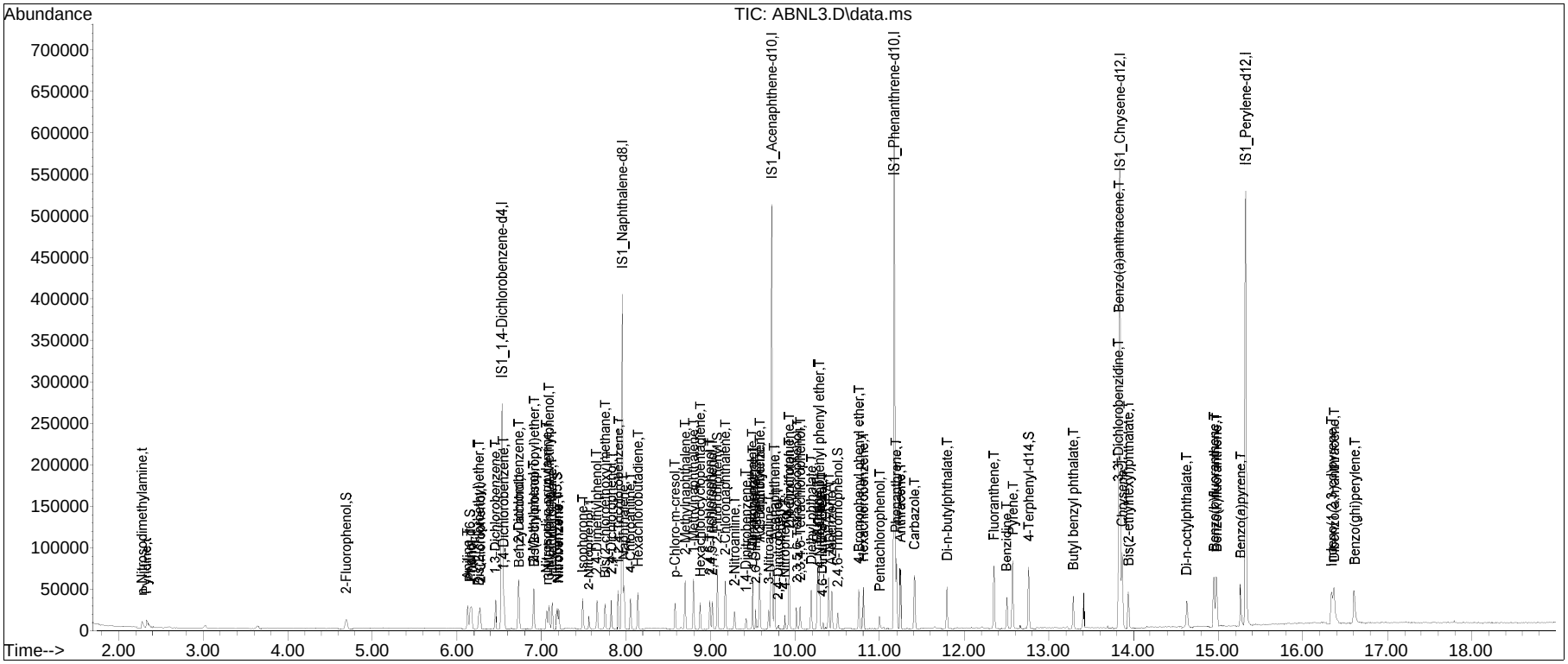
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

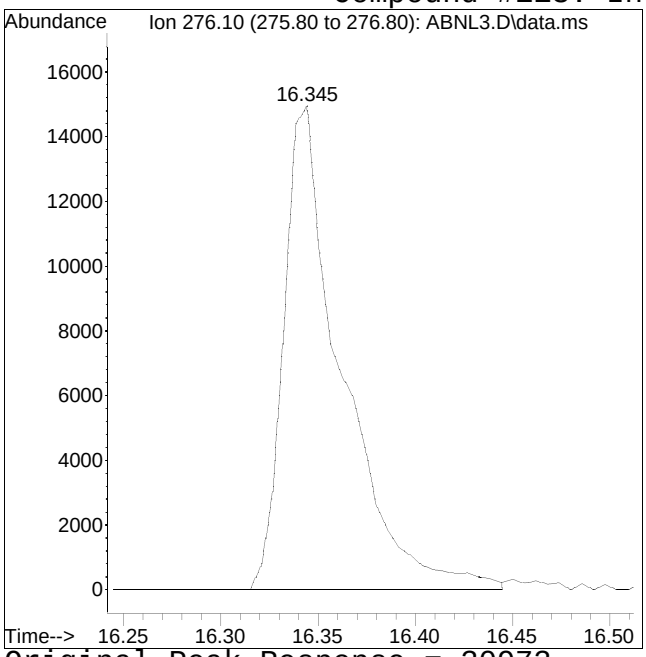
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



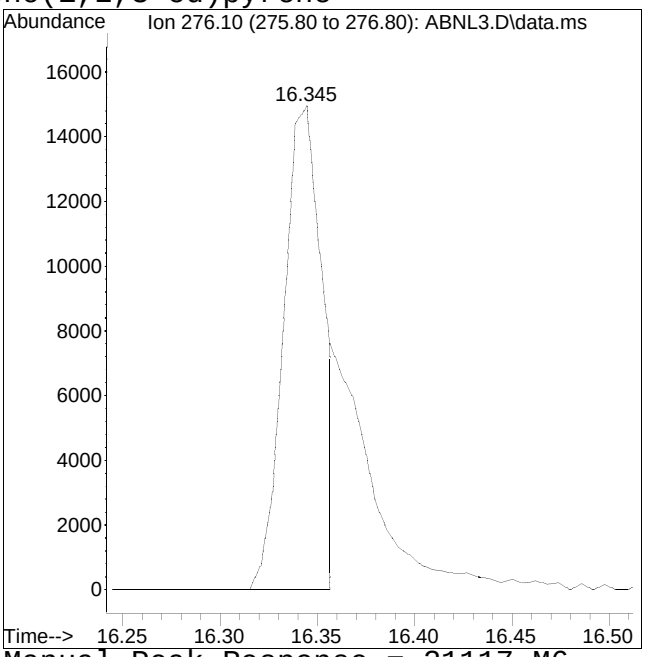
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL3.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:05 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10697 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 30973



Manual Peak Response = 21117 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	49068	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 94.27%				
34) IS1_Naphthalene-d8	7.957	136	178109	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 93.57%				
62) IS1_Acenaphthene-d10	9.727	164	109346	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 88.20%				
87) IS1_Phenanthrene-d10	11.169	188	231483	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 91.77%				
103) IS1_Chrysene-d12	13.833	240	204856	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 87.57%				
112) IS1_Perylene-d12	15.315	264	219164	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 90.91%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.692	112	2651	0.184	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.20%#				
7) Phenol-d6	6.157	99	3276	0.180	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.00%#				
19) Nitrobenzene-d5	7.186	82	2866	0.171	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 17.10%#				
45) 2-Fluorobiphenyl	9.080	172	8144	0.199	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.90%#				
78) 2,4,6-Tribromophenol	10.498	330	870	0.213	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#				
95) 4-Terphenyl-d14	12.763	244	10521	0.206	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.60%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.287	74	1812	0.179	ug/ml	#	75
3) Pyridine	2.351	79	3228	0.220	ug/ml	#	54
5) Aniline	6.134	93	4255	0.196	ug/ml		99
6) 2-Chlorophenol	6.275	128	3002	0.190	ug/ml		92
8) Phenol	6.175	94	3744	0.188	ug/ml		96
9) Bis(2-chloroethyl)ether	6.257	93	3295	0.200	ug/ml		89
10) 1,3-Dichlorobenzene	6.463	146	3924	0.200	ug/ml		95
11) 1,4-Dichlorobenzene	6.551	146	4199	0.209	ug/ml	#	92
12) 1,2-Dichlorobenzene	6.734	146	3740	0.195	ug/ml		98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	2486	0.190	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.910	45	4227	0.190	ug/ml#	46
15) 2-Methylphenol	6.904	108	2507	0.180	ug/ml	95
16) Hexachloroethane	7.122	117	1408	0.197	ug/ml#	58
17) n-Nitrosodi-n-propylamine	7.063	70	2185	0.195	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.086	108	2751	0.183	ug/ml#	93
20) Nitrobenzene	7.204	77	2838	0.166	ug/ml#	82
21) Isophorone	7.486	82	5475	0.185	ug/ml	94
22) 2-Nitrophenol	7.563	139	1051	0.149	ug/ml#	81
23) 2,4-Dimethylphenol	7.657	107	2594	0.221	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	3781	0.190	ug/ml#	90
25) 2,4-Dichlorophenol	7.828	162	2571	0.187	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	3505	0.196	ug/ml	94
35) Naphthalene	7.975	128	9960	0.199	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	1080	0.176	ug/ml#	82
38) Hexachlorobutadiene	8.145	225	2203	0.217	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	2273	0.179	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	6607	0.199	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	2255	0.199	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	1916	0.260	ug/ml#	90
43) 2,4,6-Trichlorophenol	8.992	196	2019	0.201	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	2139	0.197	ug/ml	95
46) 2-Chloronaphthalene	9.175	162	7062	0.212	ug/ml	93
47) 2-Nitroaniline	9.286	138	1109	0.385	ug/ml	94
48) 1,4-Dinitrobenzene	9.422	168	438	0.423	ug/ml	95
49) 1,3-Dinitrobenzene	9.498	168	558	0.117	ug/ml#	1
50) Dimethyl phthalate	9.492	163	7982	0.217	ug/ml#	93
51) Acenaphthylene	9.580	152	10001	0.199	ug/ml	99
52) 2,6-Dinitrotoluene	9.533	165	962	0.247	ug/ml#	85
53) 1,2-Dinitrobenzene	9.580	168	338M3	0.231	ug/ml	
63) 3-Nitroaniline	9.692	138	965	0.117	ug/ml#	88
64) Acenaphthene	9.757	154	6591	0.214	ug/ml	91
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.927	168	10705	0.212	ug/ml	95
67) 2,4-Dinitrotoluene	9.927	165	1137	0.242	ug/ml#	70
68) 4-Nitrophenol	9.880	65	854	0.122	ug/ml	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	1581	0.183	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	1582	0.180	ug/ml	98
71)	Diethyl phthalate	10.192	149	7230	0.203	ug/ml	96
72)	Fluorene	10.263	166	7825	0.206	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	3942	0.201	ug/ml	90
74)	4-Nitroaniline	10.286	138	957	0.115	ug/ml#	86
75)	4,6-Dinitro-o-cresol	10.327	198	265M2	0.425	ug/ml	
76)	NDPA/DPA	10.392	169	6543	0.214	ug/ml	97
77)	Azobenzene	10.427	77	7151	0.199	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.751	248	2311	0.225	ug/ml#	85
80)	Hexachlorobenzene	10.804	284	2664	0.235	ug/ml#	85
81)	Pentachlorophenol	11.004	266	708	0.368	ug/ml	92
88)	Phenanthrene	11.192	178	13197	0.205	ug/ml	97
89)	Anthracene	11.239	178	12757	0.210	ug/ml	99
90)	Carbazole	11.410	167	10959	0.199	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	10896	0.186	ug/ml	99
92)	Fluoranthene	12.351	202	14995	0.217	ug/ml#	90
93)	Benzidine	12.504	184	5328	0.143	ug/ml#	84
94)	Pyrene	12.574	202	15788	0.211	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	3375	0.486	ug/ml	95
104)	Benzo(a)anthracene	13.827	228	14868	0.215	ug/ml	96
105)	3,3'-Dichlorobenzidine	13.821	252	3454	0.166	ug/ml#	96
106)	Chrysene	13.862	228	15148	0.218	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	4794	0.277	ug/ml#	94
108)	Di-n-octylphthalate	14.621	149	6797	0.436	ug/ml#	86
109)	Benzo(b)fluoranthene	14.939	252	12507	0.209	ug/ml#	94
110)	Benzo(k)fluoranthene	14.968	252	12503	0.202	ug/ml#	95
111)	Benzo(a)pyrene	15.262	252	10380	0.193	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.339	276	8551M6	0.166	ug/mL	
114)	Dibenzo(a,h)anthracene	16.362	278	9182	0.170	ug/ml#	88
115)	Benzo(ghi)perylene	16.603	276	10140	0.187	ug/ml#	86

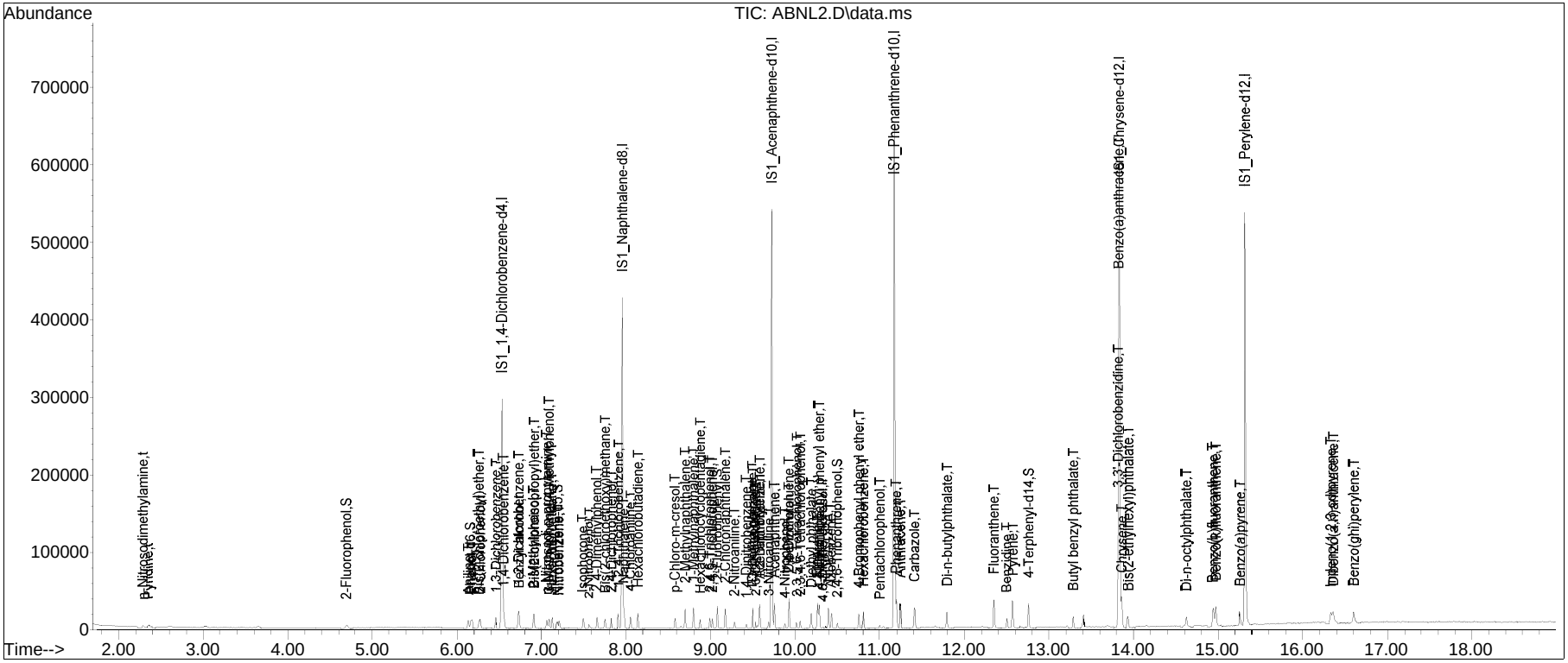
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

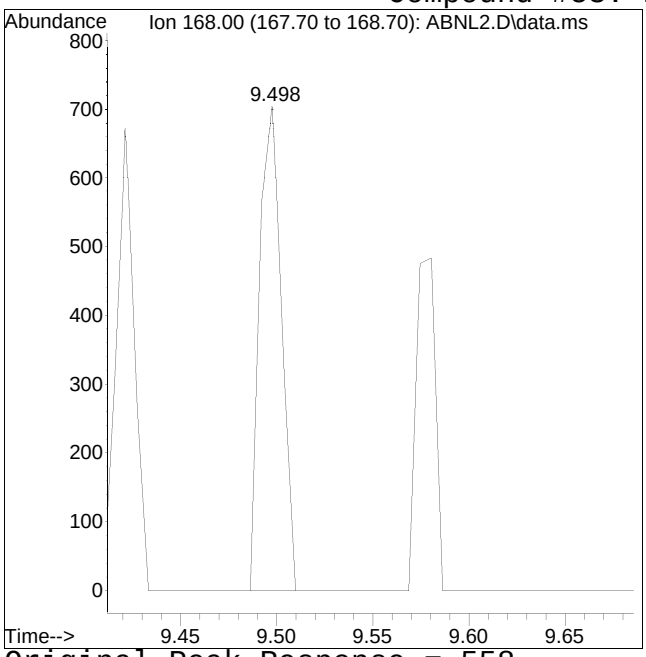
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

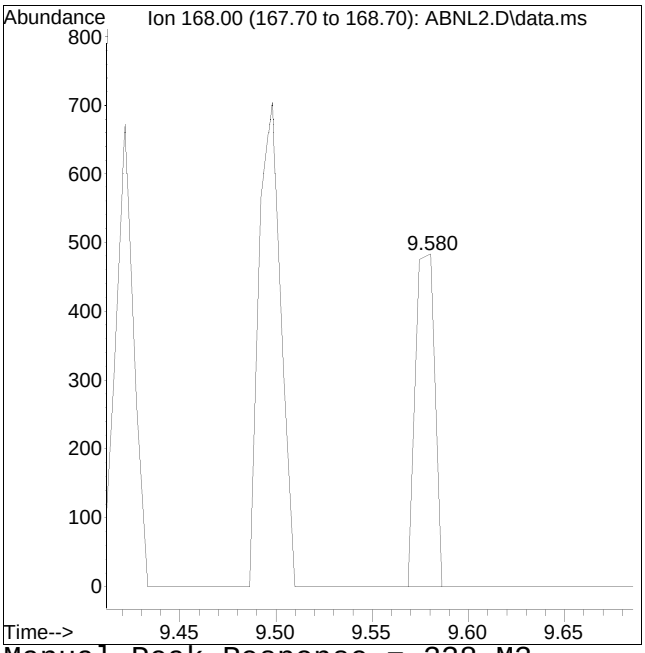


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #53: 1,2-Dinitrobenzene





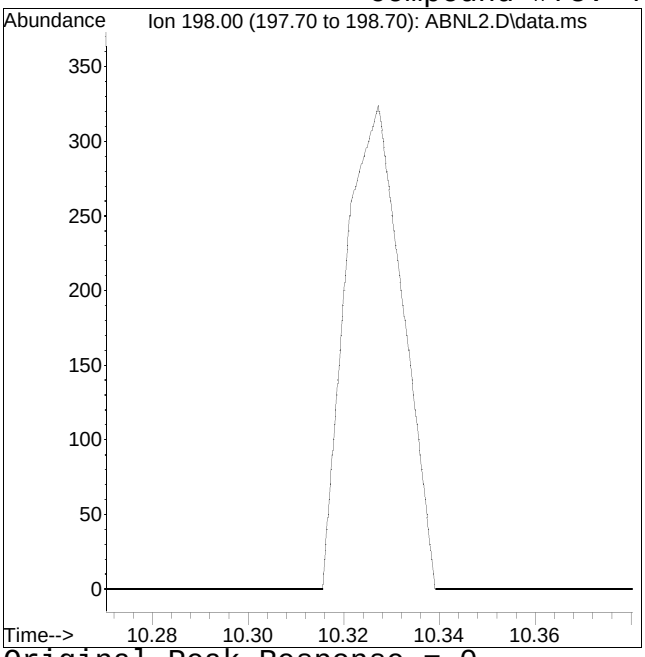
Original Peak Response = 558 Manual Peak Response = 338 M3

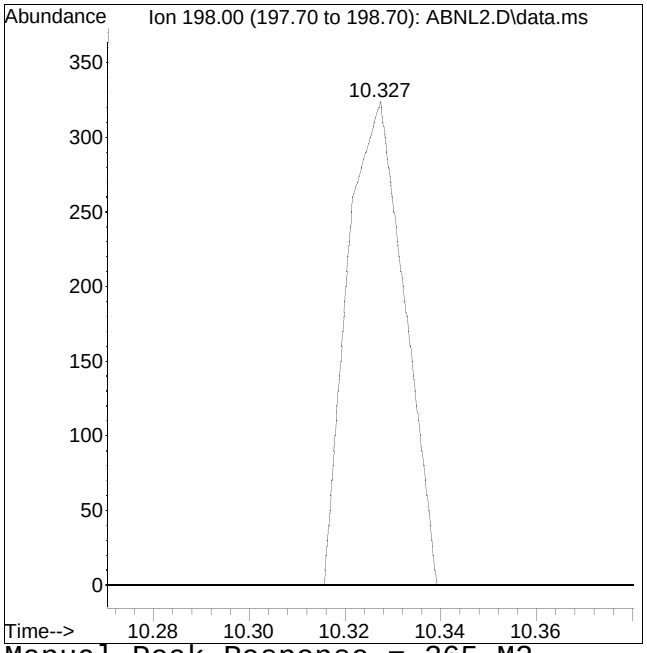
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #75: 4,6-Dinitro-o-cresol



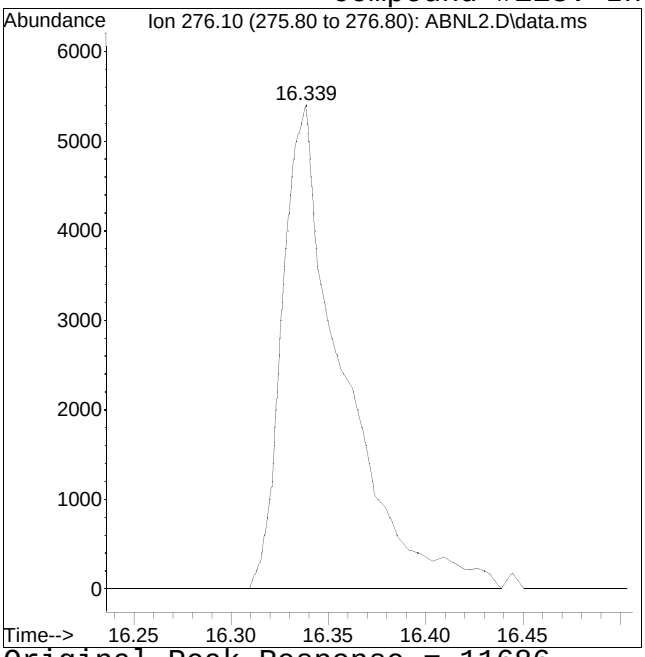


Original Peak Response = 0 Manual Peak Response = 265 M2
M2 = Peak not found by automatic integration algorithm.

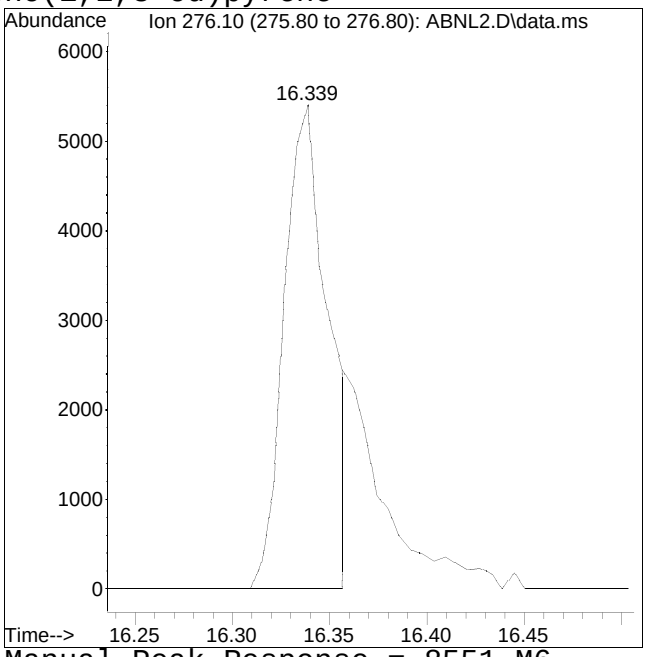
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11686



Manual Peak Response = 8551 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50386	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 96.80%			
34) IS1_Naphthalene-d8	7.957	136	184640	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 97.00%			
62) IS1_Acenaphthene-d10	9.728	164	112329	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 90.61%			
87) IS1_Phenanthrene-d10	11.174	188	235335	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 93.29%			
103) IS1_Chrysene-d12	13.833	240	210802	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 90.11%			
112) IS1_Perylene-d12	15.315	264	224865	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.28%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	1303	0.088	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.40%#			
7) Phenol-d6	6.157	99	1610	0.086	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#			
19) Nitrobenzene-d5	7.186	82	1368	0.080	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 8.00%#			
45) 2-Fluorobiphenyl	9.081	172	4156	0.098	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 9.80%#			
78) 2,4,6-Tribromophenol	10.498	330	287M2	0.068	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3.40%#			
95) 4-Terphenyl-d14	12.763	244	5373	0.104	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.281	74	830	0.080	ug/ml#	68
3) Pyridine	2.357	79	1275	0.084	ug/ml#	49
5) Aniline	6.128	93	2125	0.095	ug/ml	96
6) 2-Chlorophenol	6.275	128	1485	0.092	ug/ml#	72
8) Phenol	6.175	94	1771	0.087	ug/ml	96
9) Bis(2-chloroethyl)ether	6.257	93	1574	0.093	ug/ml#	82
10) 1,3-Dichlorobenzene	6.457	146	1915	0.095	ug/ml	99
11) 1,4-Dichlorobenzene	6.551	146	1913	0.093	ug/ml#	73

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
12) 1,2-Dichlorobenzene	6.728	146	1919	0.098 ug/ml	92
13) Benzyl alcohol	6.739	79	1238	0.092 ug/ml	90
14) Bis(2-chloroisopropyl)...	6.910	45	2141	0.094 ug/ml#	36
15) 2-Methylphenol	6.904	108	1278	0.089 ug/ml#	84
16) Hexachloroethane	7.122	117	711	0.097 ug/ml#	74
17) n-Nitrosodi-n-propylamine	7.063	70	1152	0.100 ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.087	108	1197	0.077 ug/ml#	83
20) Nitrobenzene	7.204	77	1429	0.081 ug/ml#	79
21) Isophorone	7.492	82	2720	0.090 ug/ml#	90
22) 2-Nitrophenol	7.563	139	373M2	0.052 ug/ml	
23) 2,4-Dimethylphenol	7.663	107	1321	0.110 ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	1937	0.095 ug/ml#	89
25) 2,4-Dichlorophenol	7.828	162	1209	0.086 ug/ml#	70
26) 1,2,4-Trichlorobenzene	7.910	180	1745	0.095 ug/ml	95
35) Naphthalene	7.975	128	5001	0.097 ug/ml	99
36) Benzoic Acid	0.000		0	N.D.	
37) 4-Chloroaniline	8.057	65	594	0.094 ug/ml	96
38) Hexachlorobutadiene	8.145	225	990	0.094 ug/ml	95
39) p-Chloro-m-cresol	8.586	107	1150	0.087 ug/ml#	84
40) 2-Methylnaphthalene	8.698	142	3208	0.093 ug/ml	94
41) 1-Methylnaphthalene	8.792	115	1117	0.095 ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	836	0.110 ug/ml#	85
43) 2,4,6-Trichlorophenol	8.998	196	870	0.084 ug/ml#	84
44) 2,4,5-Trichlorophenol	9.028	196	1016	0.090 ug/ml#	73
46) 2-Chloronaphthalene	9.175	162	3292	0.095 ug/ml	97
47) 2-Nitroaniline	9.292	138	531	0.326 ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	167M2	0.367 ug/ml	
49) 1,3-Dinitrobenzene	9.498	168	263M2	0.053 ug/ml	
50) Dimethyl phthalate	9.492	163	3817	0.100 ug/ml#	77
51) Acenaphthylene	9.580	152	4775	0.092 ug/ml	97
52) 2,6-Dinitrotoluene	0.000		0	N.D.	
53) 1,2-Dinitrobenzene	9.575	168	141M2	0.172 ug/ml	
63) 3-Nitroaniline	9.692	138	431	0.051 ug/ml#	95
64) Acenaphthene	9.757	154	3186	0.101 ug/ml	93
65) 2,4-Dinitrophenol	0.000		0	N.D.	
66) Dibenzofuran	9.928	168	5287	0.102 ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	435	0.178 ug/ml#	50
68) 4-Nitrophenol	9.880	65	315M2	0.044 ug/ml	

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69)	2,3,5,6-Tetrachlorophenol	10.022	232	621	0.070 ug/ml#	64
70)	2,3,4,6-Tetrachlorophenol	10.063	232	710	0.079 ug/ml#	70
71)	Diethyl phthalate	10.192	149	3751	0.103 ug/ml	95
72)	Fluorene	10.263	166	3853	0.099 ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.280	204	2036	0.101 ug/ml#	85
74)	4-Nitroaniline	10.286	138	419	0.049 ug/ml#	69
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.	
76)	NDPA/DPA	10.398	169	3096	0.099 ug/ml	91
77)	Azobenzene	10.433	77	3541	0.096 ug/ml	99
79)	4-Bromophenyl phenyl e...	10.757	248	1144	0.108 ug/ml#	88
80)	Hexachlorobenzene	10.810	284	1376	0.118 ug/ml#	64
81)	Pentachlorophenol	11.004	266	149M2	0.290 ug/ml	
88)	Phenanthrene	11.192	178	6475	0.099 ug/ml	98
89)	Anthracene	11.245	178	6079	0.098 ug/ml	99
90)	Carbazole	11.410	167	5031	0.090 ug/ml	98
91)	Di-n-butylphthalate	11.798	149	5415	0.091 ug/ml#	92
92)	Fluoranthene	12.357	202	7036	0.100 ug/ml#	93
93)	Benzidine	12.504	184	2270	0.060 ug/ml#	68
94)	Pyrene	12.574	202	7718	0.101 ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	1667	0.424 ug/ml#	93
104)	Benzo(a)anthracene	13.827	228	7685	0.108 ug/ml	98
105)	3,3'-Dichlorobenzidine	13.821	252	1677	0.078 ug/ml#	87
106)	Chrysene	13.863	228	7226	0.101 ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	2517	0.211 ug/ml#	90
108)	Di-n-octylphthalate	14.621	149	3310	0.373 ug/ml#	87
109)	Benzo(b)fluoranthene	14.939	252	5782	0.094 ug/ml#	88
110)	Benzo(k)fluoranthene	14.968	252	5672	0.089 ug/ml#	89
111)	Benzo(a)pyrene	15.262	252	4646	0.084 ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.333	276	3420M6	0.065 ug/mL	
114)	Dibenzo(a,h)anthracene	16.356	278	3966	0.071 ug/ml#	86
115)	Benzo(ghi)perylene	16.598	276	4504	0.081 ug/ml#	88

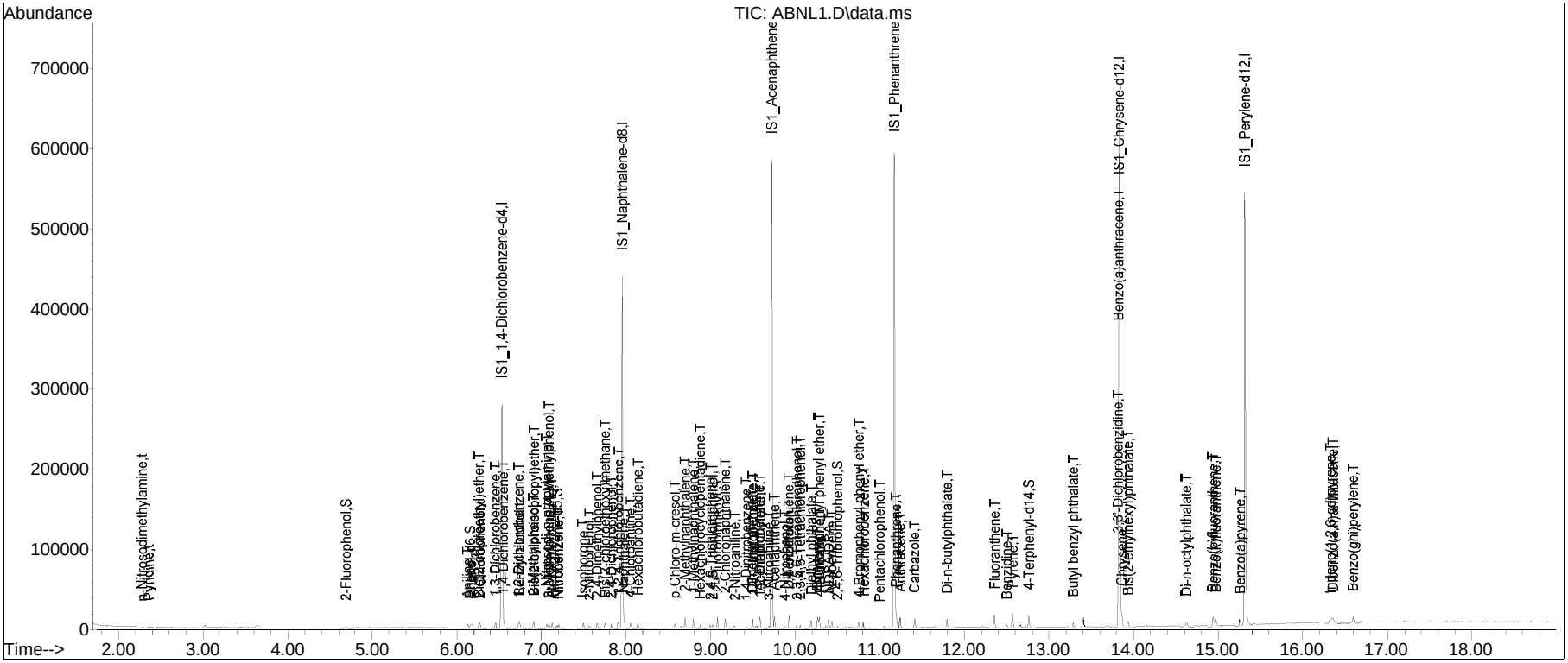
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

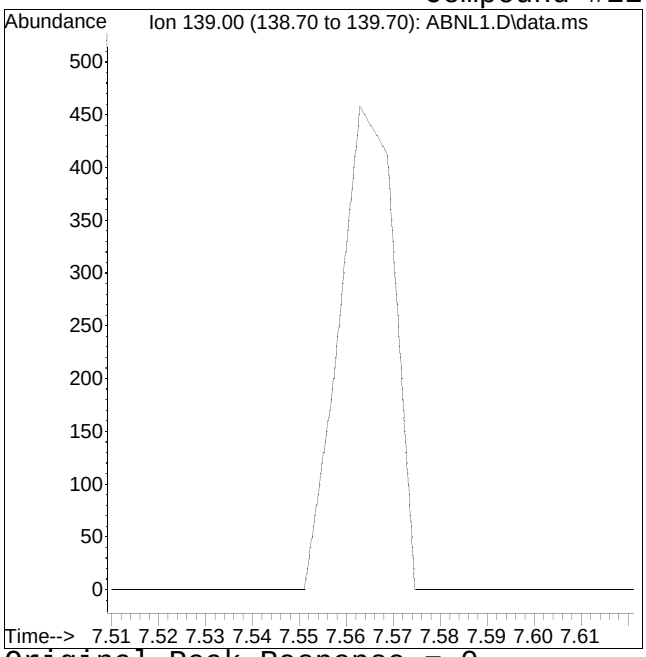
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



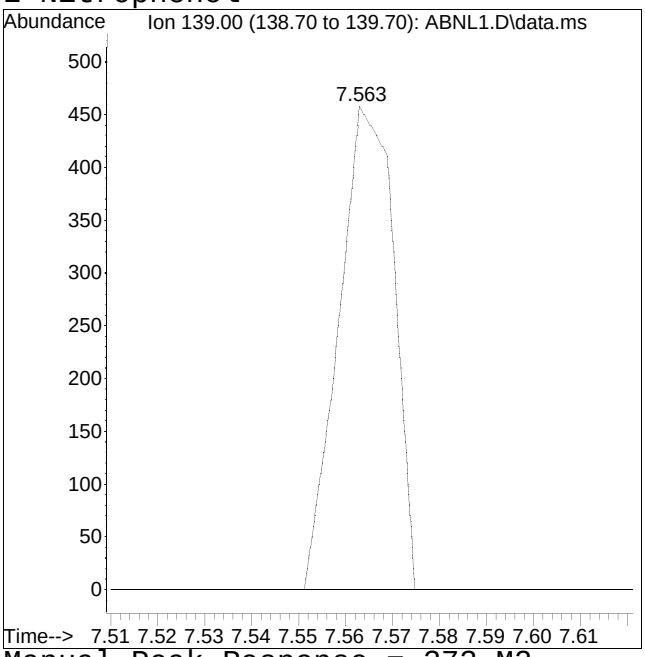
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #22: 2-Nitrophenol



Original Peak Response = 0



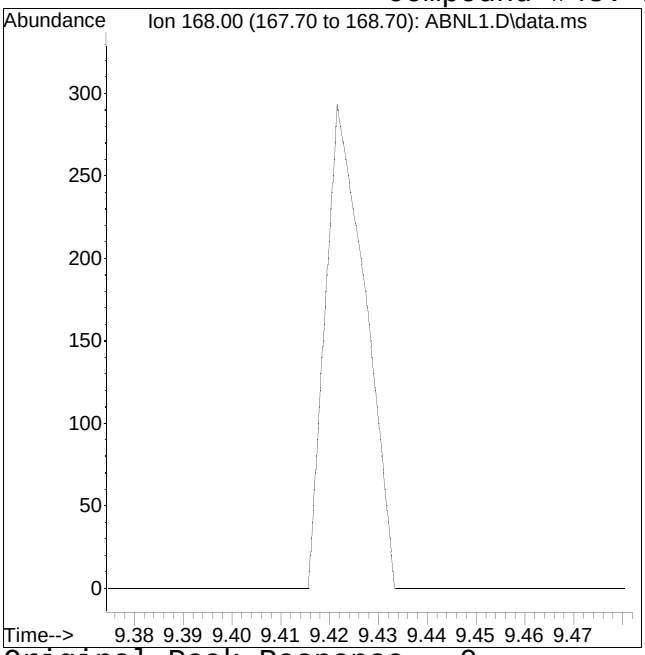
Manual Peak Response = 373 M2

M2 = Peak not found by automatic integration algorithm.

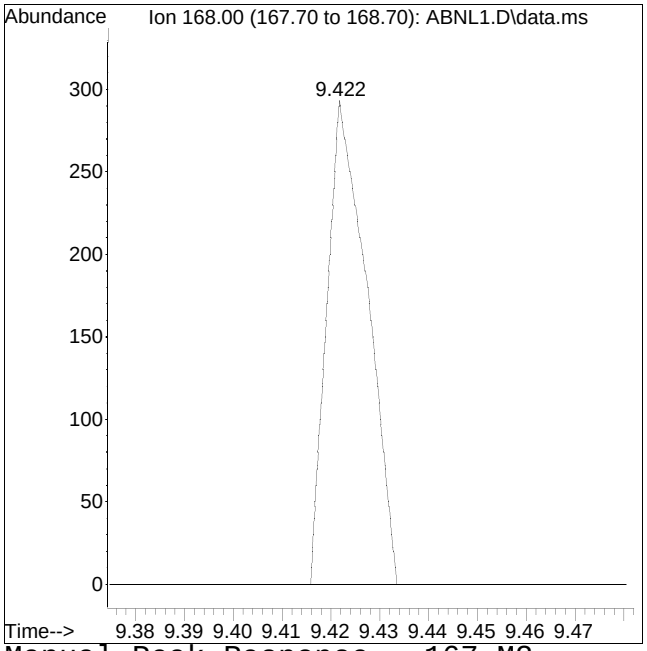
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



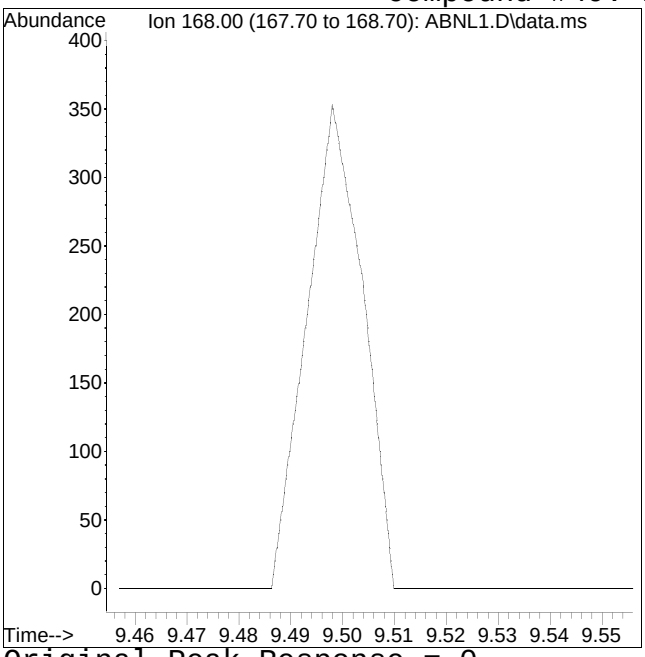
Manual Peak Response = 167 M2

M2 = Peak not found by automatic integration algorithm.

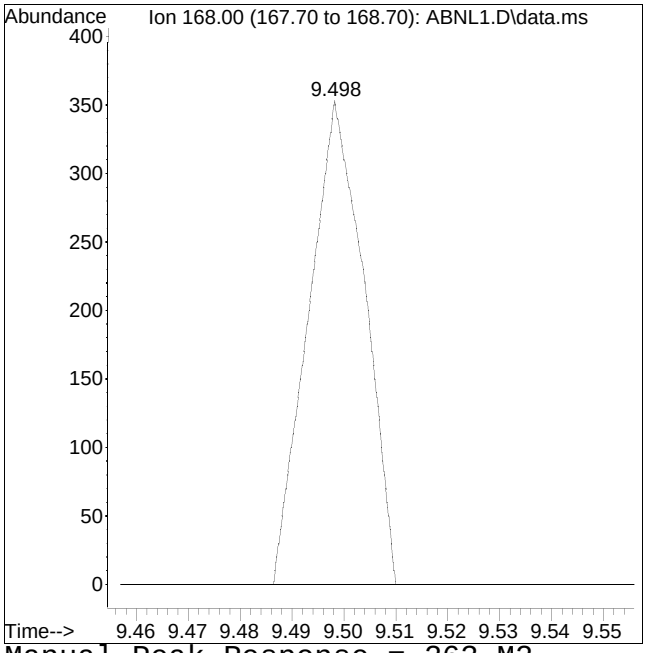
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #49: 1,3-Dinitrobenzene



Original Peak Response = 0



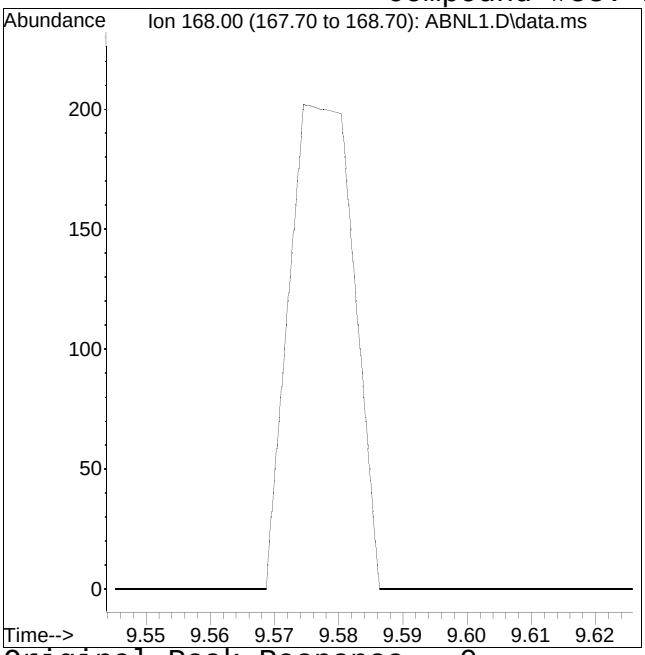
Manual Peak Response = 263 M2

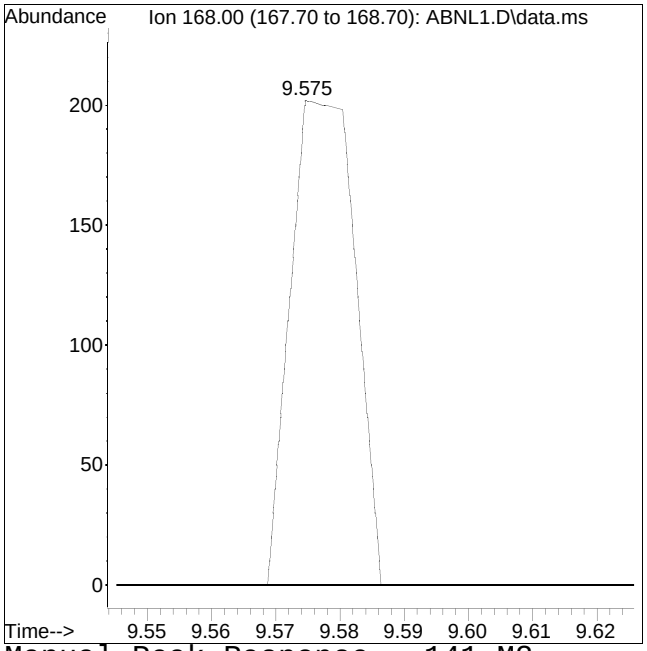
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #53: 1,2-Dinitrobenzene



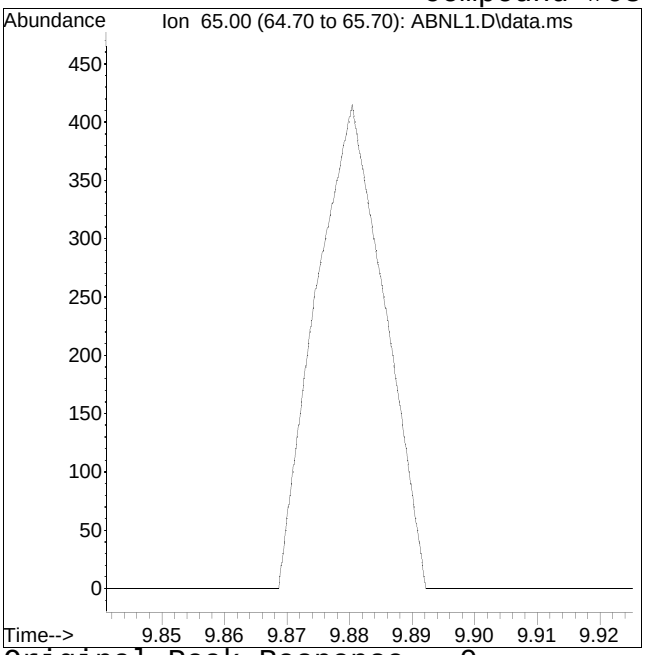


Original Peak Response = 0 Manual Peak Response = 141 M2
M2 = Peak not found by automatic integration algorithm.

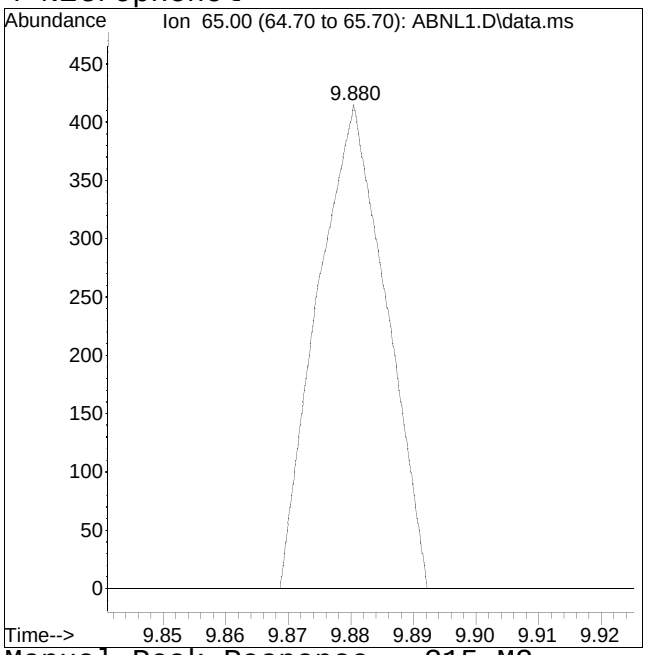
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #68: 4-Nitrophenol



Original Peak Response = 0



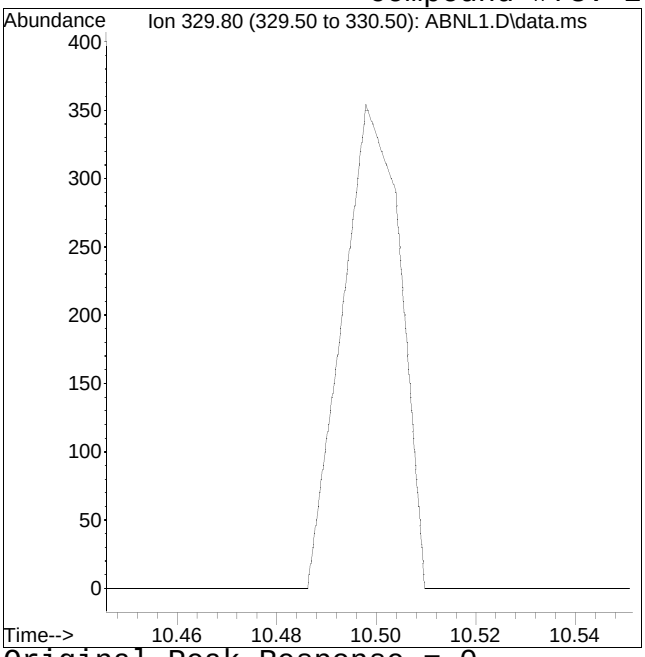
Manual Peak Response = 315 M2

M2 = Peak not found by automatic integration algorithm.

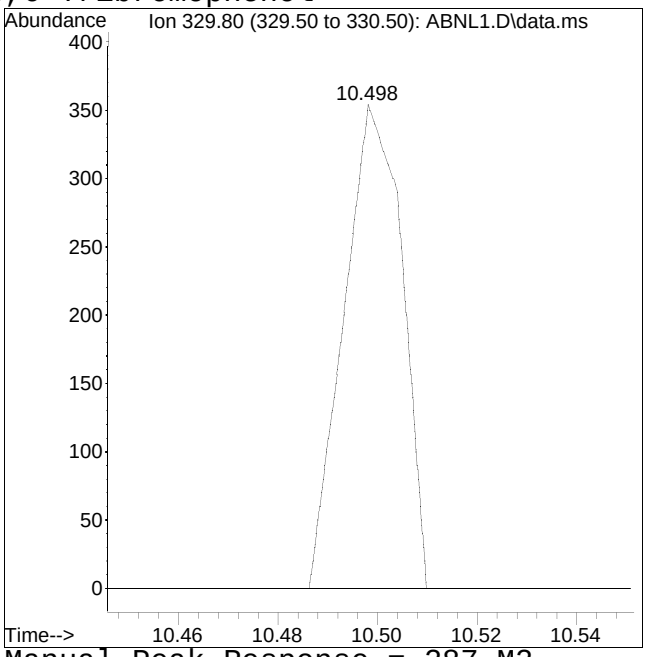
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #78: 2,4,6-Tribromophenol



Original Peak Response = 0



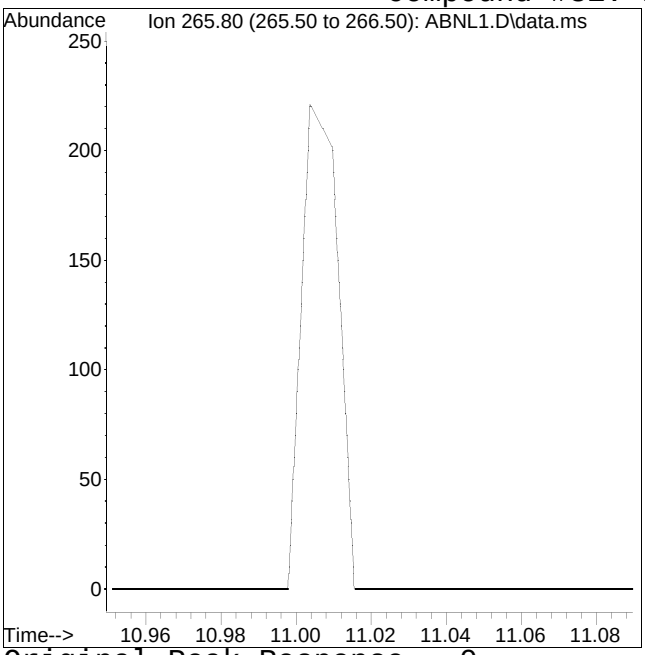
Manual Peak Response = 287 M2

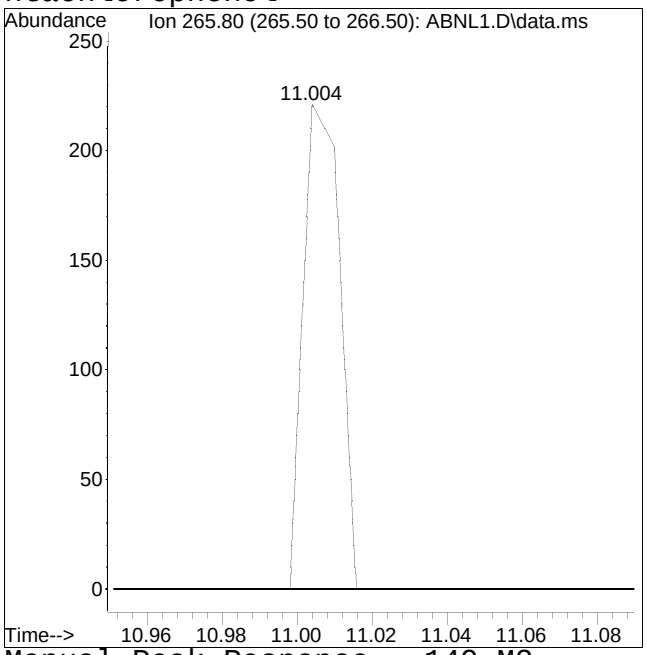
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #81: Pentachlorophenol



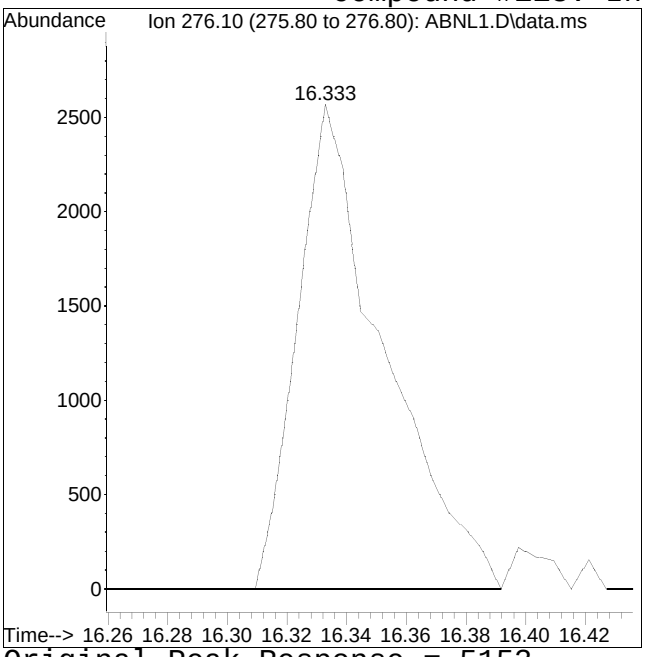


Original Peak Response = 0 Manual Peak Response = 149 M2
M2 = Peak not found by automatic integration algorithm.

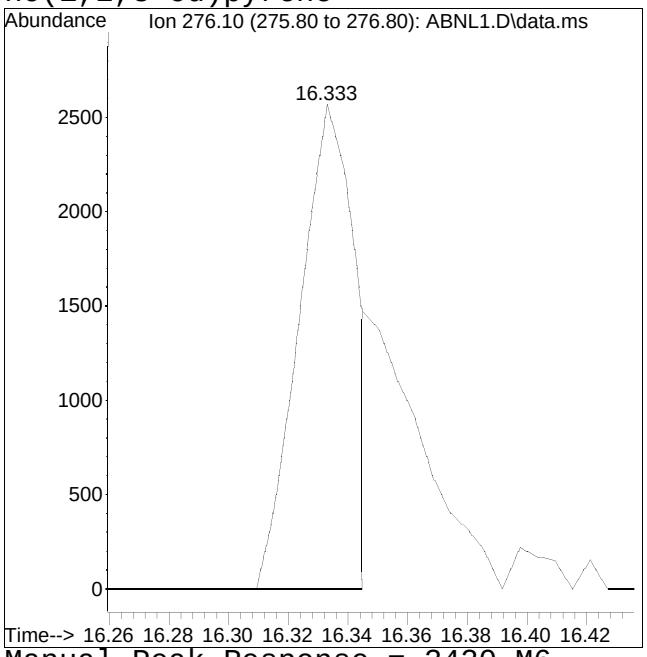
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 5153



Manual Peak Response = 3420 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	45858	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	103.27%		
54) IS2_Naphthalene-d8	7.957	136	172977	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.00%		
82) IS2_Acenaphthene-d10	9.728	164	104823	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.98%		
97) IS2_Phenanthrene-d10	11.169	188	219861	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.28%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	618134	54.604	ug/ml	98
29) Acetophenone	7.028	105	1117327	58.154	ug/ml#	82
30) m-Toluidine	7.128	106	1090647	57.246	ug/ml	95
31) 2-Chloroaniline	7.528	127	980664	57.446	ug/ml#	94
55) a-Terpineol	8.034	59	670711	61.601	ug/ml#	76
56) 3-Chloroaniline	8.039	65	344222	52.490	ug/ml	93
57) 2,6-Dichlorophenol	8.075	162	742012	64.537	ug/ml#	86
58) 1-chloro-2-nitrobenzene	8.339	111	317541	61.890	ug/ml#	1
59) Caprolactam	8.404	55	360505M3	53.080	ug/ml	
60) 1,2,4,5-Tetrachloroben...	8.875	216	906675	52.212	ug/ml	97
61) Biphenyl	9.175	154	2123620	54.675	ug/ml	98
83) Dichloran	10.869	206	258446	52.858	ug/ml#	69
84) Pentachloronitrobenzene	11.022	237	253718	57.643	ug/ml#	83
98) Diphenamid	12.080	167	1514426	74.549	ug/ml#	81

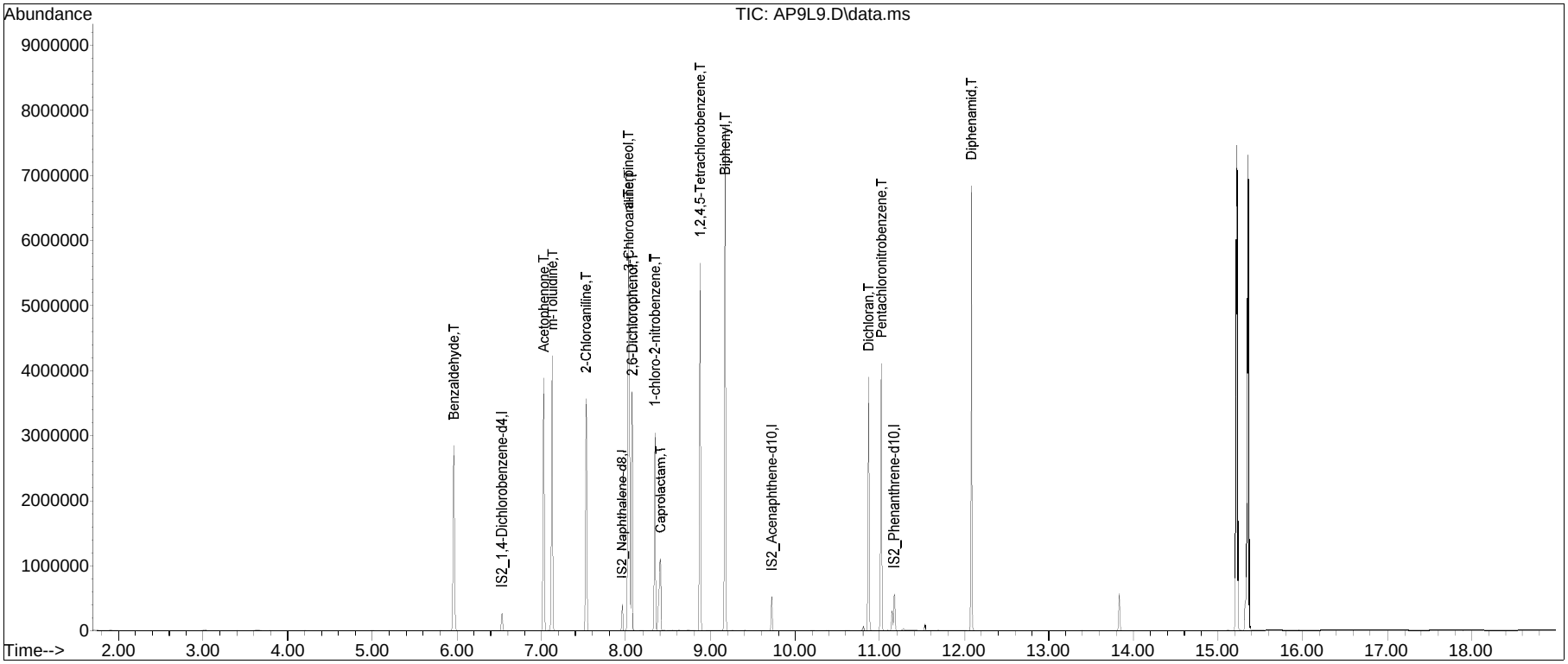
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

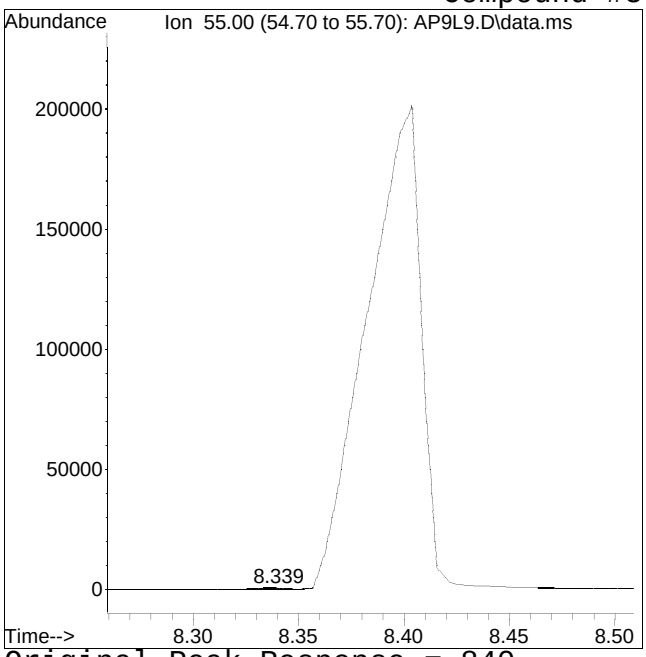
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

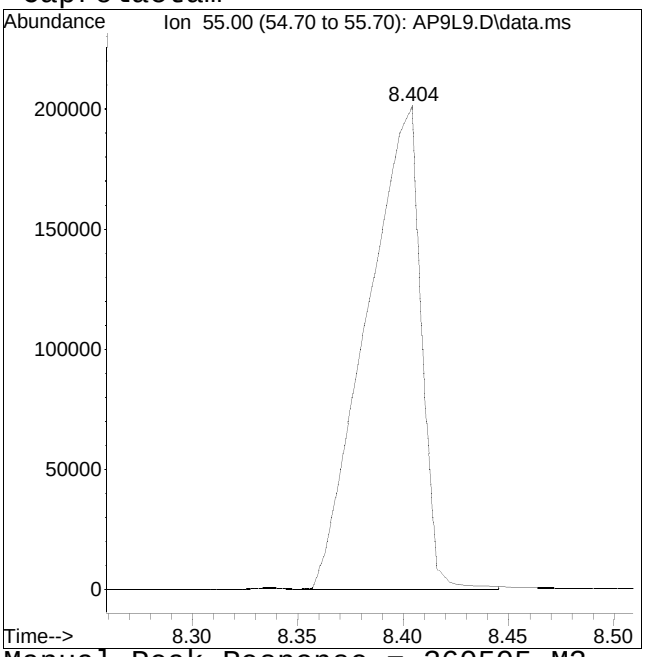


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 11:21 pm Instrument : SV107
Sample : IL2,32,,AP9L50 Lot# 10700 Quant Date : 6/3/2024 10:24 am

Compound #59: Caprolactam





Original Peak Response = 840 Manual Peak Response = 360505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	51703	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery =	116.43%			
54) IS2_Naphthalene-d8	7.957	136	192684	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery =	113.62%			
82) IS2_Acenaphthene-d10	9.727	164	119026	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery =	119.21%			
97) IS2_Phenanthrene-d10	11.169	188	250969	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery =	116.75%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	330697	25.910	ug/ml		98
29) Acetophenone	7.028	105	594302	27.435	ug/ml	#	83
30) m-Toluidine	7.122	106	591629	27.543	ug/ml		95
31) 2-Chloroaniline	7.528	127	522346	27.139	ug/ml		94
55) a-Terpineol	8.028	59	360696	29.740	ug/ml	#	78
56) 3-Chloroaniline	8.039	65	188453	25.798	ug/ml		91
57) 2,6-Dichlorophenol	8.069	162	398570	31.121	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.333	111	170632	29.855	ug/ml	#	1
59) Caprolactam	8.386	55	201135	26.902	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.875	216	493850	25.530	ug/ml		97
61) Biphenyl	9.175	154	1167371	26.981	ug/ml		99
83) Dichloran	10.869	206	134106	27.858	ug/ml	#	69
84) Pentachloronitrobenzene	11.016	237	134633	27.285	ug/ml	#	83
98) Diphenamid	12.080	167	810689	34.960	ug/ml	#	81

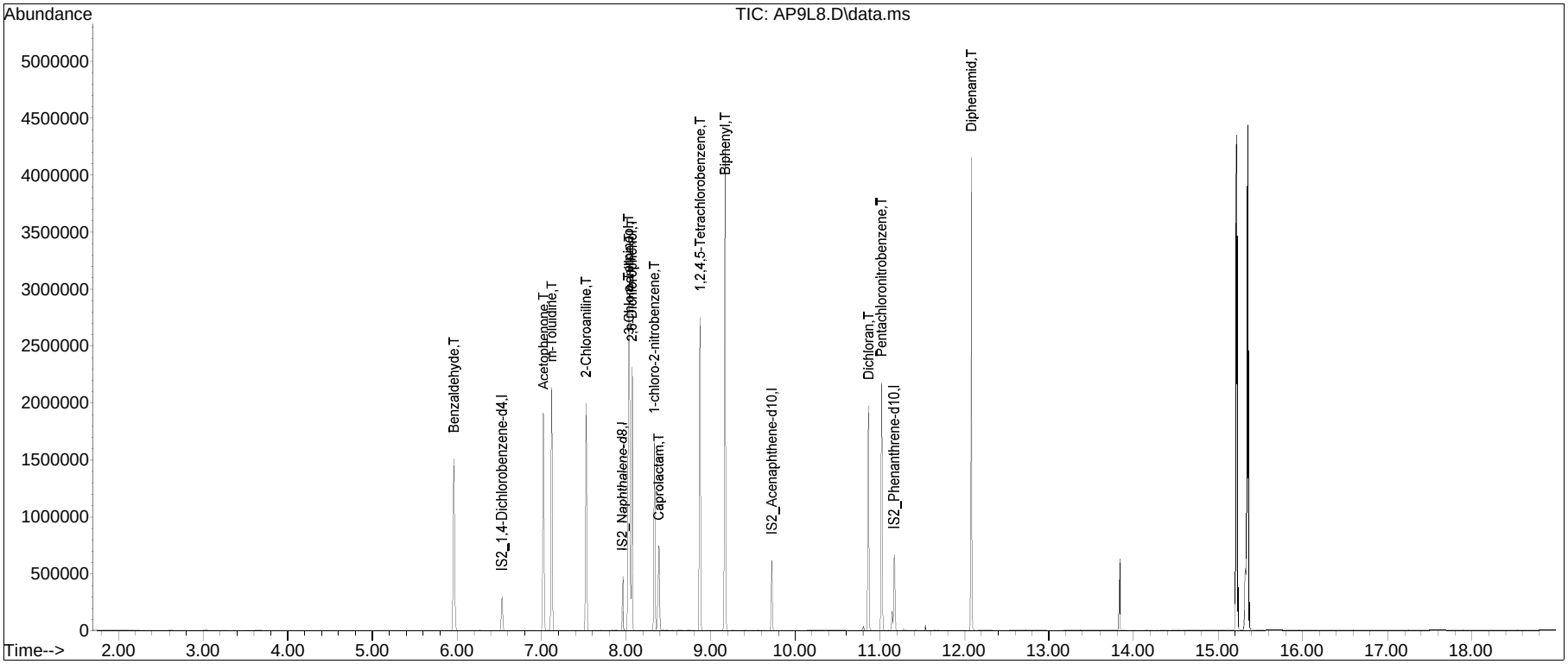
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L8.D	Operator	: SV107:jg
Date Inj'd	: 6/2/2024 11:47 pm	Instrument	: SV107
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.533	152	48096	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	108.31%		
54) IS2_Naphthalene-d8	7.957	136	179982	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.13%		
82) IS2_Acenaphthene-d10	9.727	164	110207	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	110.37%		
97) IS2_Phenanthrene-d10	11.168	188	230804	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	107.37%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	123578	10.408	ug/ml	99
29) Acetophenone	7.022	105	219138	10.875	ug/ml#	83
30) m-Toluidine	7.122	106	212267	10.623	ug/ml	95
31) 2-Chloroaniline	7.528	127	192499	10.752	ug/ml#	93
55) a-Terpineol	8.027	59	128933	11.381	ug/ml#	76
56) 3-Chloroaniline	8.039	65	68122	9.984	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	142626	11.922	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	59869	11.214	ug/ml#	1
59) Caprolactam	8.375	55	72277	10.740	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.874	216	178600	9.885	ug/ml	97
61) Biphenyl	9.174	154	412907	10.217	ug/ml	99
83) Dichloran	10.863	206	40375	10.432	ug/ml#	74
84) Pentachloronitrobenzene	11.016	237	44261	10.108	ug/ml#	83
98) Diphenamid	12.080	167	288397	13.523	ug/ml	82

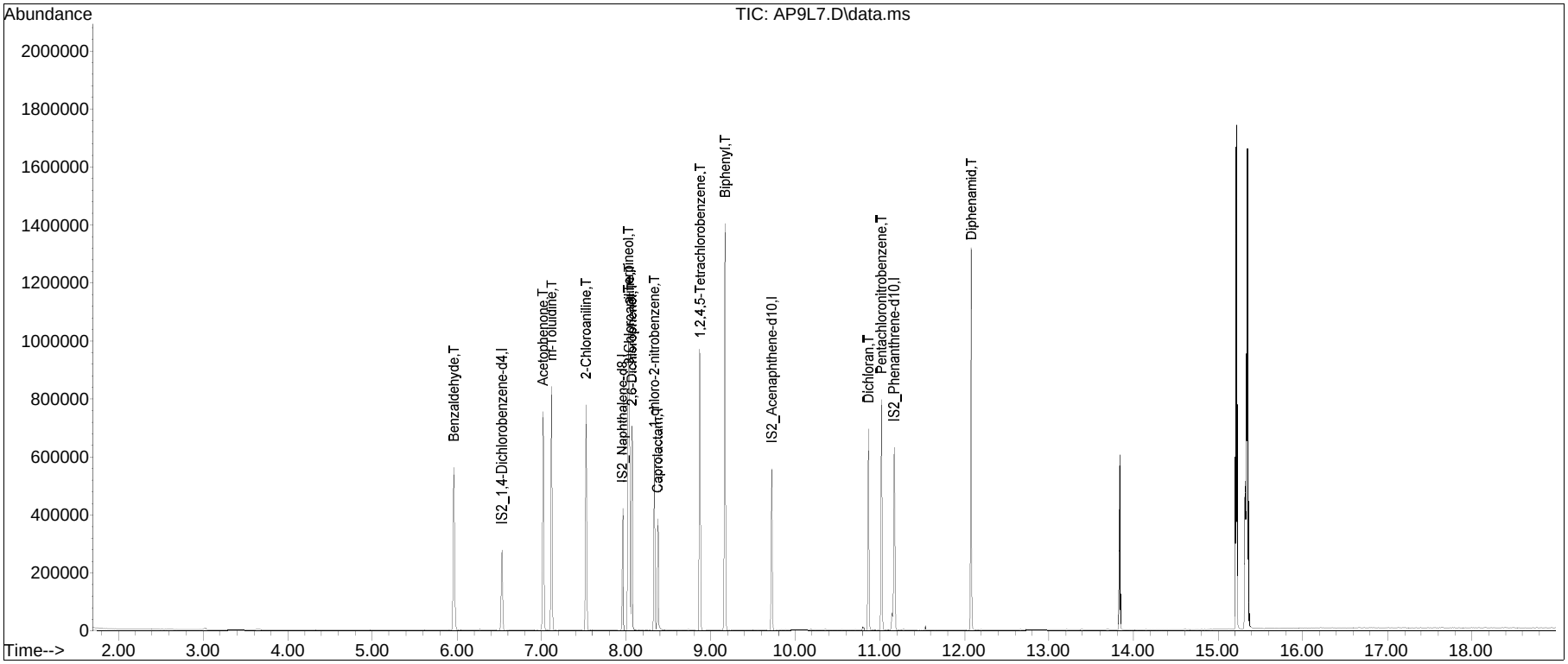
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:12 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	44406	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 100.00%				
54) IS2_Naphthalene-d8	7.957	136	169580	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 100.00%				
82) IS2_Acenaphthene-d10	9.728	164	99848	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 100.00%				
97) IS2_Phenanthrene-d10	11.169	188	214959	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	53347	4.867	ug/ml		98
29) Acetophenone	7.022	105	94421	5.075	ug/ml	#	82
30) m-Toluidine	7.122	106	90846	4.924	ug/ml		94
31) 2-Chloroaniline	7.528	127	83530	5.053	ug/ml	#	94
55) a-Terpineol	8.022	59	54760	5.130	ug/ml	#	77
56) 3-Chloroaniline	8.034	65	29581	4.601	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	59495	5.278	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	23611	4.694	ug/ml	#	1
59) Caprolactam	8.369	55	30038	5.091	ug/ml	#	71
60) 1,2,4,5-Tetrachloroben...	8.869	216	78097	4.587	ug/ml		97
61) Biphenyl	9.175	154	181083	4.756	ug/ml		99
83) Dichloran	10.863	206	14102	4.535	ug/ml	#	80
84) Pentachloronitrobenzene	11.016	237	16652	4.578	ug/ml	#	83
98) Diphenamid	12.074	167	116240	5.852	ug/ml	#	81

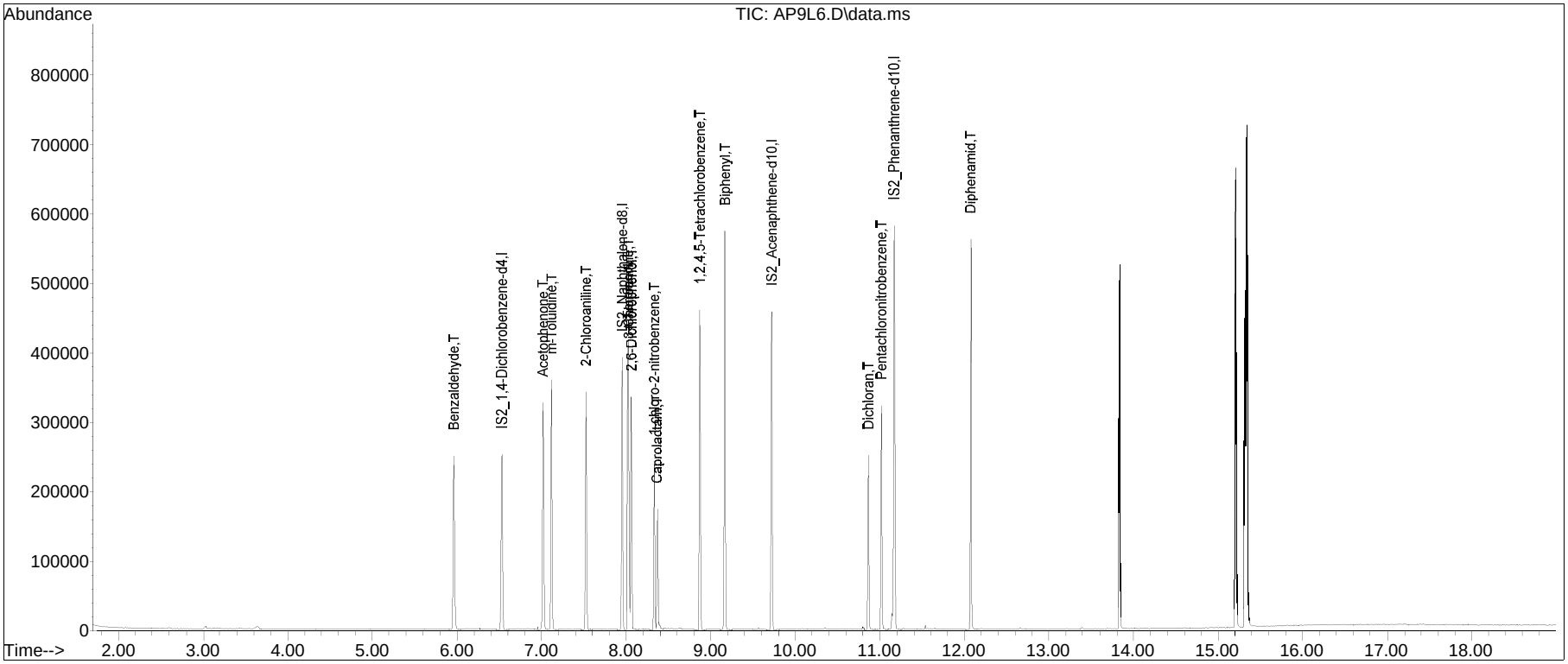
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:37 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.540	152	46890	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 105.59%				
54) IS2_Naphthalene-d8	7.957	136	170919	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 100.79%				
82) IS2_Acenaphthene-d10	9.728	164	103469	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 103.63%				
97) IS2_Phenanthrene-d10	11.175	188	220465	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 102.56%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.975	105	28474	2.460	ug/ml		98
29) Acetophenone	7.028	105	49113	2.500	ug/ml	#	85
30) m-Toluidine	7.128	106	46785	2.402	ug/ml		95
31) 2-Chloroaniline	7.534	127	43298	2.481	ug/ml	#	93
55) a-Terpineol	8.028	59	27803	2.584	ug/ml	#	76
56) 3-Chloroaniline	8.040	65	15735	2.428	ug/ml		86
57) 2,6-Dichlorophenol	8.069	162	30396	2.676	ug/ml	#	88
58) 1-chloro-2-nitrobenzene	8.339	111	12100	2.387	ug/ml	#	1
59) Caprolactam	8.369	55	14231	2.729	ug/ml	#	69
60) 1,2,4,5-Tetrachloroben...	8.875	216	40773	2.376	ug/ml		97
61) Biphenyl	9.175	154	95343	2.484	ug/ml		99
83) Dichloran	10.869	206	6586	2.397	ug/ml	#	80
84) Pentachloronitrobenzene	11.022	237	7921	2.454	ug/ml	#	82
98) Diphenamid	12.080	167	59344	2.913	ug/ml	#	82

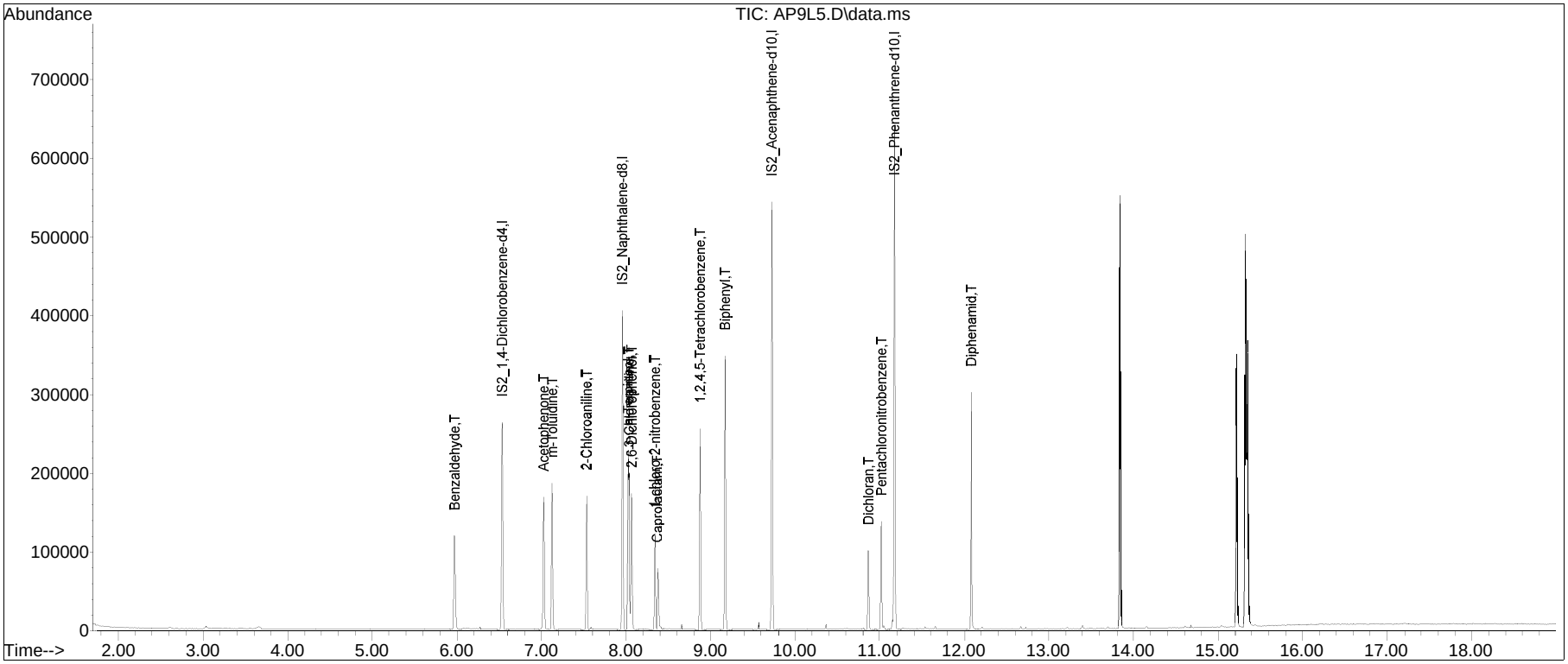
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:08 am	Instrument	: SV107
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	47509	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	106.99%		
54) IS2_Naphthalene-d8	7.957	136	173835	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.51%		
82) IS2_Acenaphthene-d10	9.728	164	103977	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.14%		
97) IS2_Phenanthrene-d10	11.169	188	219480	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.969	105	12095	1.031	ug/ml	95
29) Acetophenone	7.028	105	20411	1.025	ug/ml#	85
30) m-Toluidine	7.122	106	18578	0.941	ug/ml	93
31) 2-Chloroaniline	7.528	127	17491	0.989	ug/ml	94
55) a-Terpineol	8.022	59	11870	1.085	ug/ml#	79
56) 3-Chloroaniline	8.040	65	6420	0.974	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	11983	1.037	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	4685	0.909	ug/ml#	1
59) Caprolactam	8.369	55	5453	1.423	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.869	216	17097	0.980	ug/ml#	95
61) Biphenyl	9.175	154	38926	0.997	ug/ml	99
83) Dichloran	10.863	206	2167	1.192	ug/ml	85
84) Pentachloronitrobenzene	11.016	237	2723	1.268	ug/ml#	84
98) Diphenamid	12.075	167	22513	1.110	ug/ml#	81

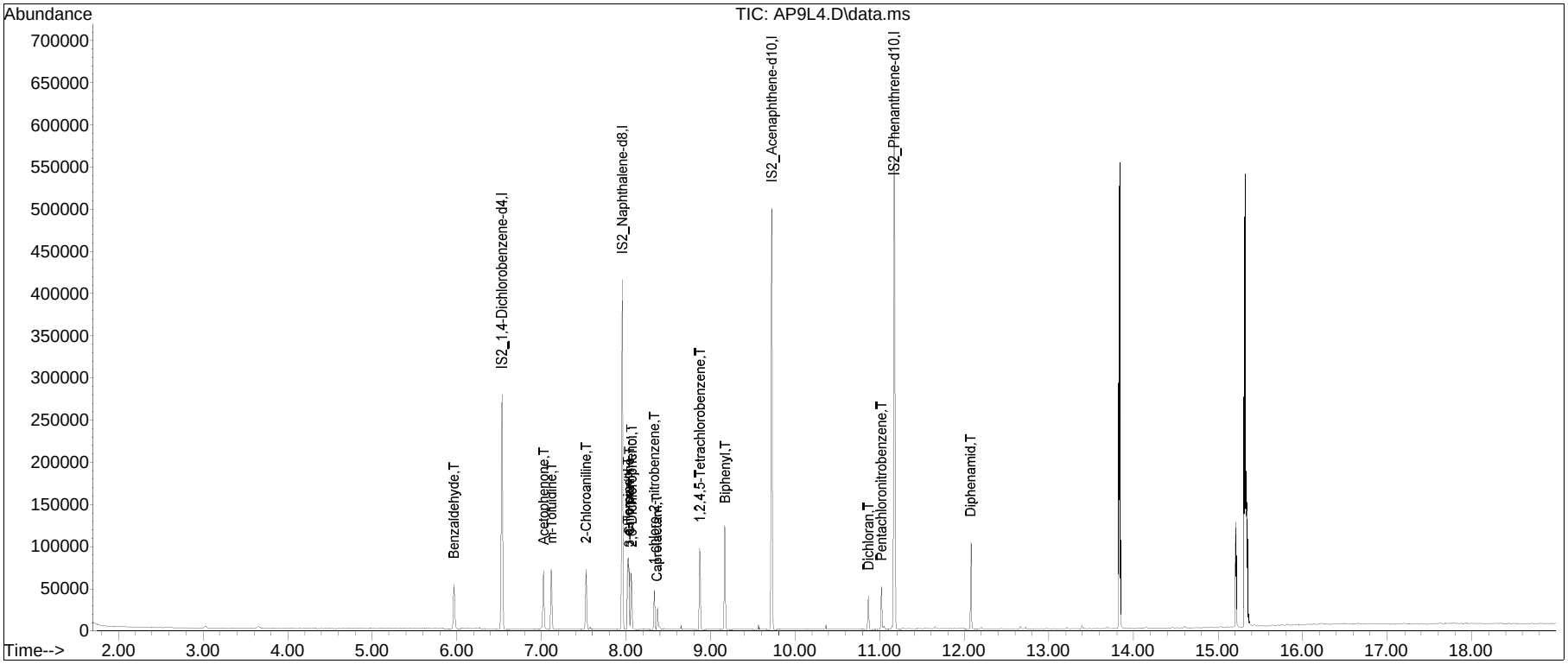
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:33 am	Instrument	: SV107
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	49009	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 110.37%				
54) IS2_Naphthalene-d8	7.957	136	179546	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 105.88%				
82) IS2_Acenaphthene-d10	9.728	164	109029	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 109.19%				
97) IS2_Phenanthrene-d10	11.169	188	231050	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 107.49%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.969	105	6140	0.508	ug/ml		97
29) Acetophenone	7.028	105	10875	0.530	ug/ml	#	91
30) m-Toluidine	7.122	106	9689	0.476	ug/ml		93
31) 2-Chloroaniline	7.528	127	9015	0.494	ug/ml		94
55) a-Terpineol	8.022	59	6227	0.551	ug/ml	#	77
56) 3-Chloroaniline	8.039	65	3347	0.492	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	6354	0.532	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.334	111	2550	0.479	ug/ml	#	1
59) Caprolactam	8.369	55	2660	1.007	ug/ml	#	93
60) 1,2,4,5-Tetrachloroben...	8.875	216	9408	0.522	ug/ml	#	94
61) Biphenyl	9.175	154	21583	0.535	ug/ml		99
83) Dichloran	10.863	206	1250	0.926	ug/ml	#	79
84) Pentachloronitrobenzene	11.016	237	1494	0.974	ug/ml	#	81
98) Diphenamid	12.080	167	11982	0.561	ug/ml	#	79

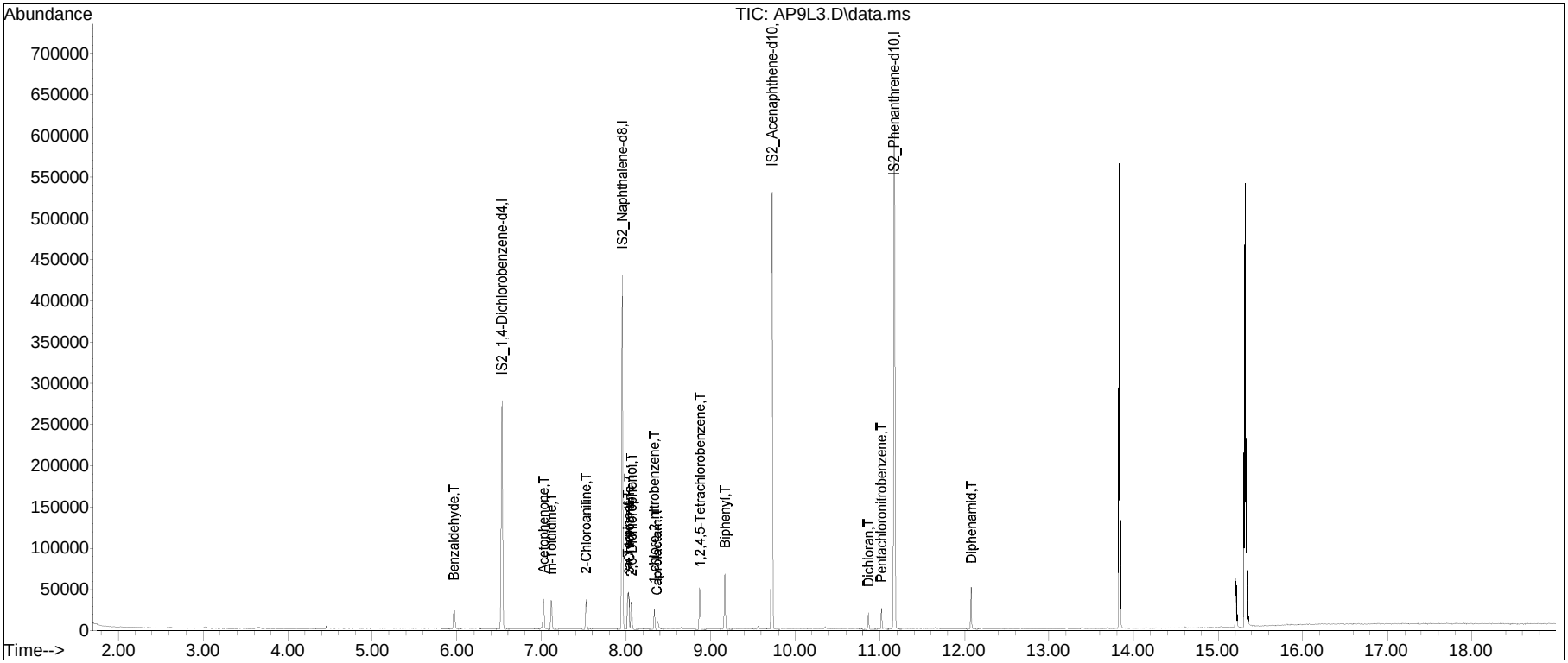
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:58 am	Instrument	: SV107
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49463	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	111.39%		
54) IS2_Naphthalene-d8	7.957	136	179922	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.10%		
82) IS2_Acenaphthene-d10	9.728	164	109290	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	109.46%		
97) IS2_Phenanthrene-d10	11.169	188	228813	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	106.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	2696	0.221	ug/ml	93
29) Acetophenone	7.028	105	4186	0.202	ug/ml#	92
30) m-Toluidine	7.122	106	3525	0.172	ug/ml	95
31) 2-Chloroaniline	7.528	127	3896	0.212	ug/ml	94
55) a-Terpineol	8.022	59	2243	0.198	ug/ml#	68
56) 3-Chloroaniline	8.040	65	1322	0.194	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	2307	0.193	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.334	111	1090	0.204	ug/ml#	1
59) Caprolactam	8.387	55	790	0.745	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.869	216	3668	0.203	ug/ml	94
61) Biphenyl	9.175	154	8671	0.215	ug/ml	100
83) Dichloran	10.863	206	506	0.731	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	485	0.756	ug/ml#	37
98) Diphenamid	12.075	167	4329	0.205	ug/ml	83

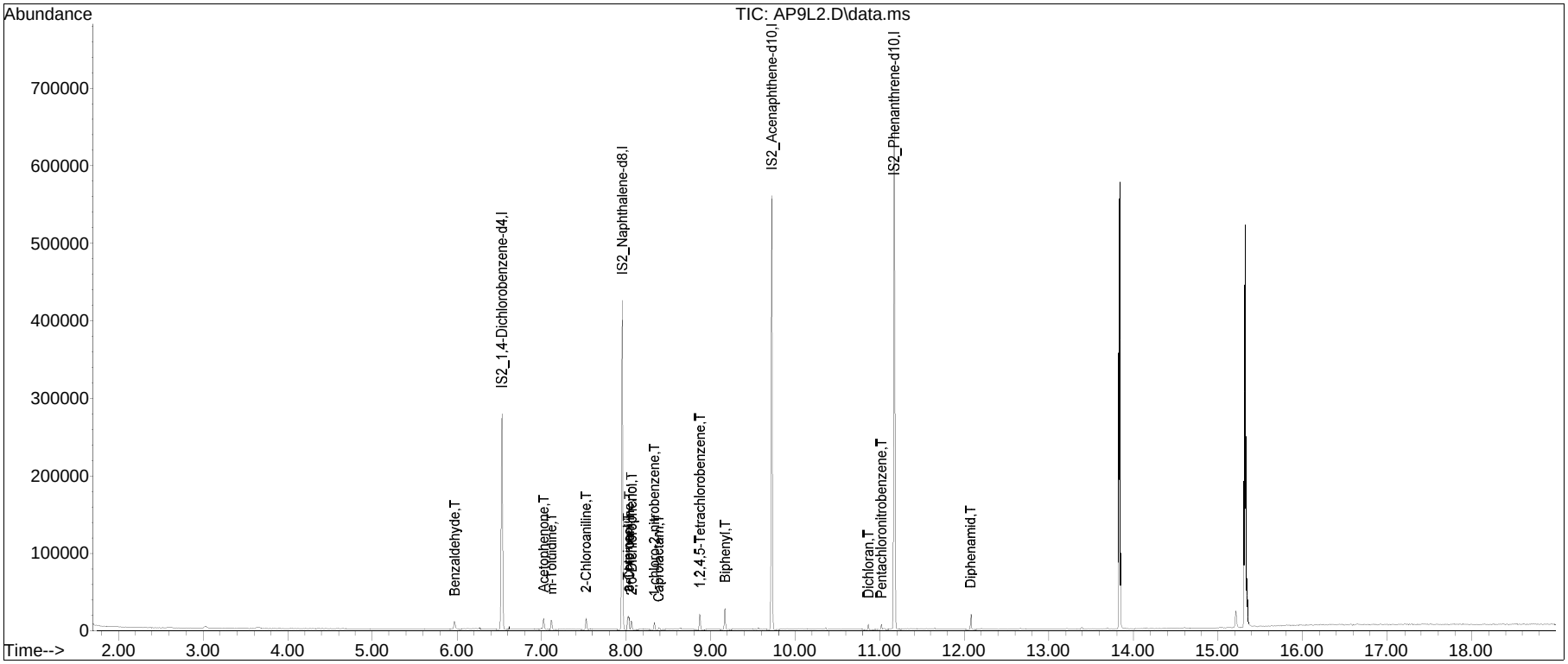
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 2:23 am	Instrument	: SV107
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49963	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 112.51%			
54) IS2_Naphthalene-d8	7.957	136	180953	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 106.71%			
82) IS2_Acenaphthene-d10	9.727	164	108611	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 108.78%			
97) IS2_Phenanthrene-d10	11.169	188	222108	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery = 103.33%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	1301	0.105	ug/ml	91
29) Acetophenone	7.028	105	2195	0.105	ug/ml#	81
30) m-Toluidine	7.128	106	1360	0.066	ug/ml#	93
31) 2-Chloroaniline	7.528	127	1858	0.100	ug/ml#	92
55) a-Terpineol	8.022	59	1234	0.108	ug/ml#	75
56) 3-Chloroaniline	8.033	65	582	0.085	ug/ml	87
57) 2,6-Dichlorophenol	8.069	162	1076	0.089	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.333	111	460	0.086	ug/ml#	1
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	8.869	216	1907	0.105	ug/ml#	87
61) Biphenyl	9.175	154	4181	0.103	ug/ml	97
83) Dichloran	10.863	206	245M2	0.663	ug/ml	
84) Pentachloronitrobenzene	11.016	237	92M6	0.671	ug/ml	
98) Diphenamid	12.074	167	2056	0.100	ug/ml	86

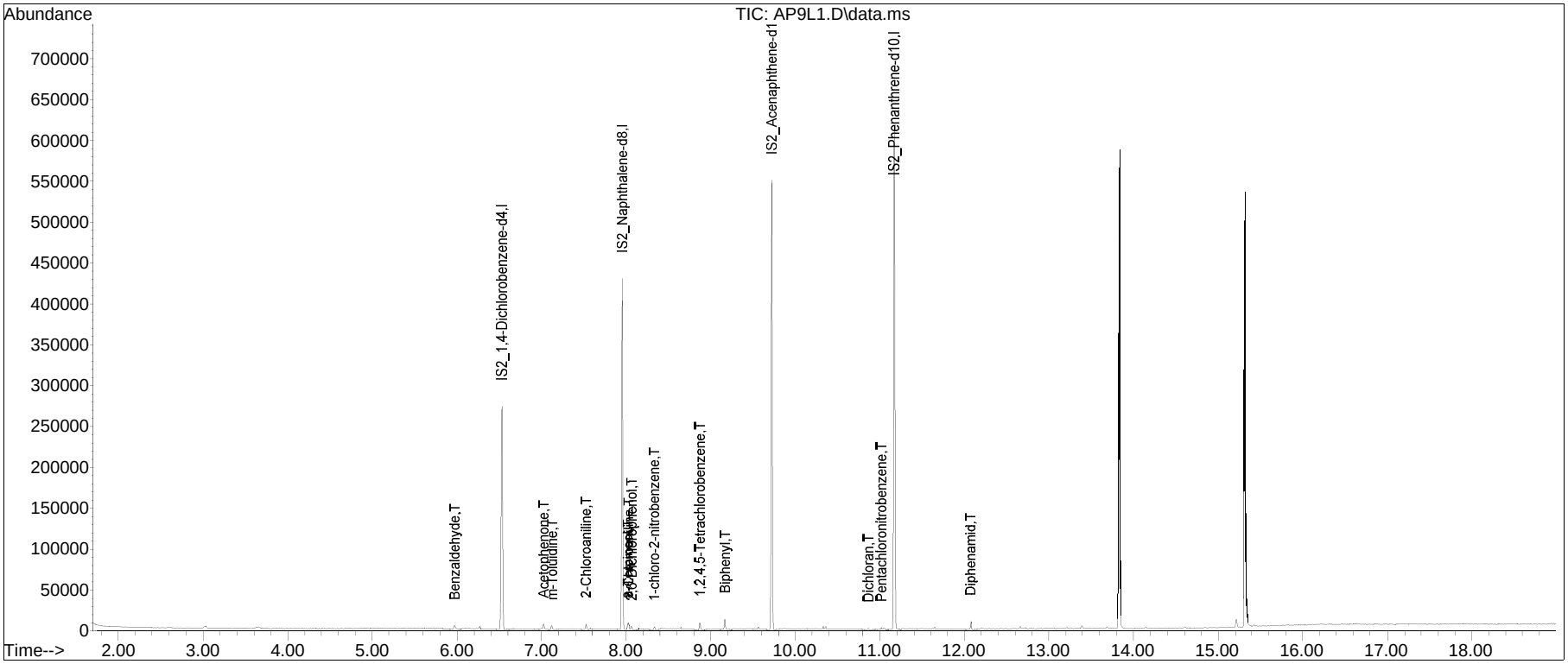
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

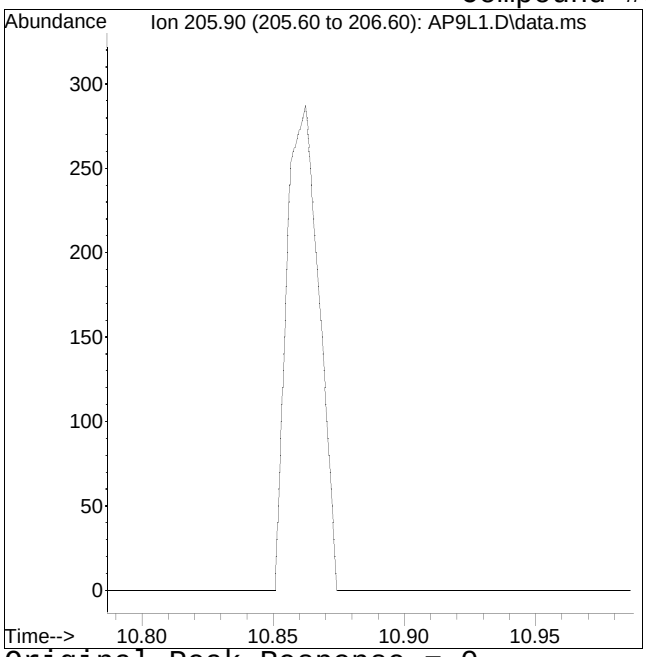
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



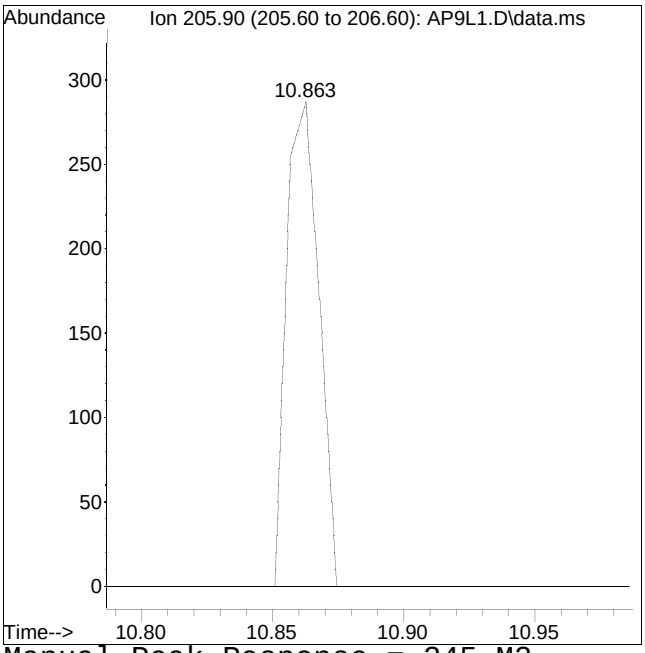
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070Quant Date : 6/3/2024 10:23 am

Compound #83: Dichloran



Original Peak Response = 0



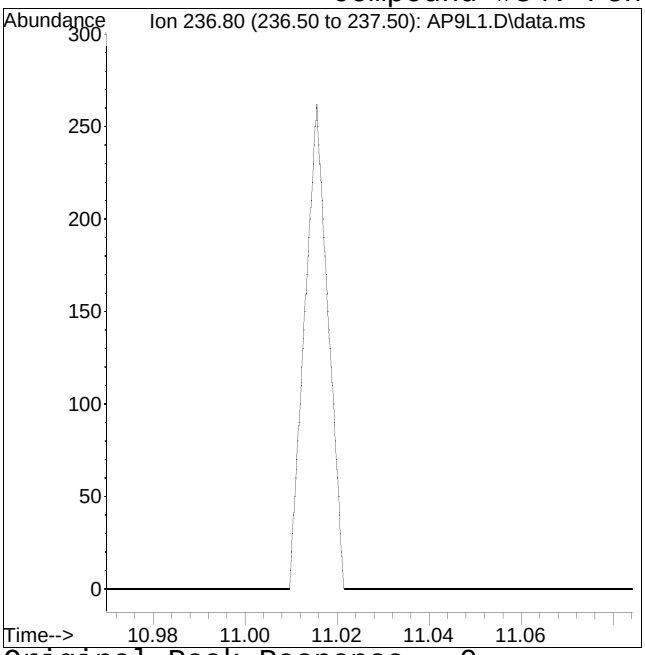
Manual Peak Response = 245 M2

M2 = Peak not found by automatic integration algorithm.

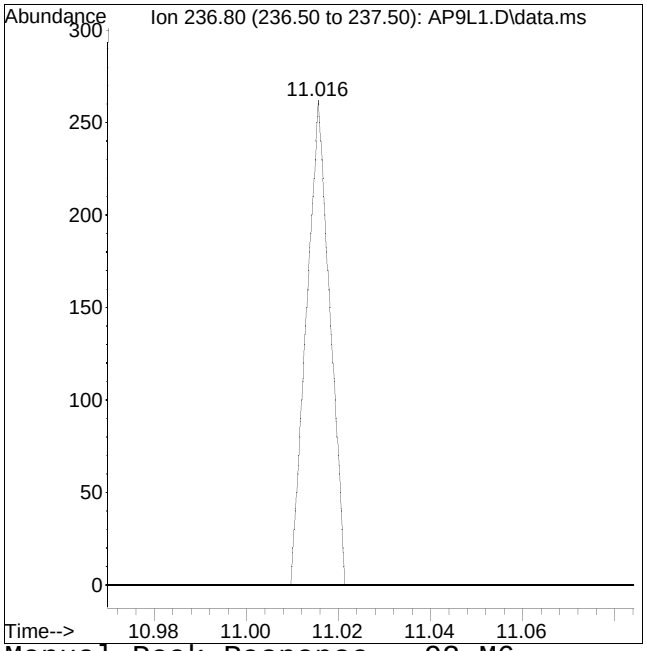
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070 Quant Date : 6/3/2024 10:23 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 92 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.704	0.768	-9.1	103	0.00
3	t	Pyridine		1.199	1.251	-4.3	100	-0.02
4	S	2-Fluorophenol		1.069	1.146	-7.2	102	0.00
5	T	Aniline		1.713	1.863	-8.8	106	0.00
6	t	2-Chlorophenol		1.178	1.257	-6.7	103	0.00
7	S	Phenol-d6		1.322	1.436	-8.6	105	0.00
8	T	Phenol		1.438	1.539	-7.0	105	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.257	-6.1	106	0.00
10	T	1,3-Dichlorobenzene		1.452	1.551	-6.8	105	0.00
11	T	1,4-Dichlorobenzene		1.478	1.555	-5.2	104	0.00
12	T	1,2-Dichlorobenzene		1.426	1.507	-5.7	104	0.00
13	t	Benzyl alcohol		1.000	1.070	-7.0	104	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.732	-6.7	107	0.00
15	T	2-Methylphenol		1.031	1.108	-7.5	103	0.00
16	T	Hexachloroethane		0.545	0.582	-6.8	104	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.938	-6.7	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.189	-9.7	102	0.00
19	S	Nitrobenzene-d5		1.165	1.236	-6.1	99	0.00
20	T	Nitrobenzene		1.197	1.260	-5.3	98	0.00
21	T	Isophorone		2.310	2.527	-9.4	104	0.00
22	T	2-Nitrophenol		0.533	0.499	6.4	93	0.00
23	T	2,4-Dimethylphenol		1.088	1.120	-2.9	98	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.642	-8.9	108	0.00
25	T	2,4-Dichlorophenol		1.094	1.207	-10.3	102	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.411	-7.1	107	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		0.996	1.041	-4.5	107	0.00
36	T	Benzoic Acid	*	5.000	4.821	3.6	96	0.00
37	T	4-Chloroaniline		0.126	0.136	-7.9	107	0.00
38	T	Hexachlorobutadiene		0.211	0.230	-9.0	111	0.00
39	T	p-Chloro-m-cresol		0.272	0.297	-9.2	102	0.00
40	T	2-Methylnaphthalene		0.688	0.740	-7.6	107	0.00
41	T	1-Methylnaphthalene		0.235	0.251	-6.8	108	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.225	-9.8	108	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.260	-9.7	101	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.278	-10.8	103	0.00
45	S	2-Fluorobiphenyl		0.866	0.928	-7.2	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.756	-5.7	106	0.00
47	T	2-Nitroaniline		0.173	0.173	0.0	94	0.00
48	T	1,4-Dinitrobenzene		0.087	0.076	12.6	95	0.00
49	T	1,3-Dinitrobenzene		0.109	0.097	11.0	93	0.00
50	T	Dimethyl phthalate		0.839	0.901	-7.4	105	0.00
51	T	Acenaphthylene		1.079	1.189	-10.2	107	0.00
52	T	2,6-Dinitrotoluene		0.153	0.166	-8.5	98	0.00
53	T	1,2-Dinitrobenzene		0.068	0.070	-2.9	95	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
63	T	3-Nitroaniline		0.259	0.287	-10.8	100	0.00
64	T	Acenaphthene		1.081	1.163	-7.6	107	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.210	15.8	88	0.00
66	T	Dibenzofuran		1.757	1.922	-9.4	107	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.699	6.0	99	0.00
68	T	4-Nitrophenol		0.221	0.232	-5.0	100	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.377	-18.6	105	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.386	-22.9#	107	0.00
71	T	Diethyl phthalate		1.301	1.431	-10.0	107	0.00
72	T	Fluorene		1.328	1.453	-9.4	105	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.742	-10.4	108	0.00
74	T	4-Nitroaniline		0.262	0.292	-11.5	104	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.232	15.4	98	0.00
76	T	NDPA/DPA		1.131	1.265	-11.8	107	0.00
77	T	Azobenzene		1.259	1.441	-14.5	108	0.00
78	S	2,4,6-Tribromophenol		0.171	0.200	-17.0	102	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.409	-8.8	106	0.00
80	T	Hexachlorobenzene		0.431	0.465	-7.9	107	0.00
81	T	Pentachlorophenol		0.252	0.269	-6.7	102	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	90	0.00
88	T	Phenanthrene		1.038	1.096	-5.6	105	0.00
89	T	Anthracene		1.030	1.137	-10.4	109	0.00
90	T	Carbazole		0.928	1.011	-8.9	104	0.00
91	T	Di-n-butylphthalate		1.088	1.207	-10.9	104	0.00
92	T	Fluoranthene		1.186	1.307	-10.2	108	0.00
93	T	Benzidine		0.721	0.754	-4.6	101	0.00
94	T	Pyrene		1.269	1.394	-9.9	108	0.00
95	S	4-Terphenyl-d14		0.875	0.956	-9.3	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.557	8.9	100	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	86	0.00
104	T	Benzo(a)anthracene		1.335	1.459	-9.3	103	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.500	-16.3	100	0.00
106	T	Chrysene		1.276	1.383	-8.4	102	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.140	-2.8	103	0.00
108	T	Di-n-octylphthalate	*	5.000	4.740	5.2	99	0.00
109	T	Benzo(b)fluoranthene		1.178	1.306	-10.9	101	0.00
110	T	Benzo(k)fluoranthene		1.154	1.298	-12.5	101	0.00
111	T	Benzo(a)pyrene		1.025	1.213	-18.3	106	-0.01
112	I	IS1_Perylene-d12		1.000	1.000	0.0	84	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.196	-25.6#	113	-0.01
114	T	Dibenzo(a,h)anthracene		0.953	1.178	-23.6#	103	-0.01
115	T	Benzo(ghi)perylene		0.928	1.074	-15.7	103	-0.01

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	48133	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 92.47%			
34) IS1_Naphthalene-d8	7.957	136	179971	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 94.55%			
62) IS1_Acenaphthene-d10	9.727	164	110910	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 89.47%			
87) IS1_Phenanthrene-d10	11.169	188	227716	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 90.27%			
103) IS1_Chrysene-d12	13.833	240	201209	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 86.01%			
112) IS1_Perylene-d12	15.315	264	202785	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.687	112	68980	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.10%#			
7) Phenol-d6	6.157	99	86386	5.431	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 271.55%#			
19) Nitrobenzene-d5	7.181	82	74359	5.306	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 530.60%#			
45) 2-Fluorobiphenyl	9.080	172	208717	5.356	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 535.60%#			
78) 2,4,6-Tribromophenol	10.498	330	27761	5.871	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 293.55%#			
95) 4-Terphenyl-d14	12.763	244	272131	5.463	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 546.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	46190	5.454	ug/ml#	68
3) Pyridine	2.293	79	75290	5.217	ug/ml#	59
5) Aniline	6.128	93	112111	5.439	ug/ml	97
6) 2-Chlorophenol	6.269	128	75656	5.336	ug/ml	94
8) Phenol	6.175	94	92596	5.351	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	75604	5.301	ug/ml#	85
10) 1,3-Dichlorobenzene	6.457	146	93317	5.342	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	93546	5.261	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	90658	5.284	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	64368	5.347	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	104198	5.335	ug/ml#	46
15) 2-Methylphenol	6.904	108	66691	5.377	ug/ml	99
16) Hexachloroethane	7.122	117	34991	5.336	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	56436	5.334	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.086	108	71562	5.484	ug/ml	98
20) Nitrobenzene	7.204	77	75830	5.265	ug/ml	98
21) Isophorone	7.481	82	152062	5.470	ug/ml	97
22) 2-Nitrophenol	7.563	139	30029	4.680	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	67410	5.150	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	98786	5.446	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	72592	5.515	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	84896	5.351	ug/ml	97
35) Naphthalene	7.975	128	234099	5.225	ug/ml	99
36) Benzoic Acid	7.751	105	37692	4.821	ug/ml	97
37) 4-Chloroaniline	8.057	65	30505	5.397	ug/ml	91
38) Hexachlorobutadiene	8.145	225	51724	5.458	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	66777	5.450	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	166439	5.374	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	56538	5.353	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	50620	5.482	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	58438	5.485	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	62619	5.542	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	170033	5.283	ug/ml	96
47) 2-Nitroaniline	9.292	138	39012	5.011	ug/ml	92
48) 1,4-Dinitrobenzene	9.422	168	17114	4.373	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	21913	4.480	ug/ml#	1
50) Dimethyl phthalate	9.492	163	202629	5.370	ug/ml#	99
51) Acenaphthylene	9.580	152	267479	5.507	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37241	5.426	ug/ml#	84
53) 1,2-Dinitrobenzene	9.580	168	15743	5.134	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39753	5.525	ug/ml	98
64) Acenaphthene	9.757	154	161236	5.379	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	15506	4.210	ug/ml	90
66) Dibenzofuran	9.927	168	266500	5.472	ug/ml	93
67) 2,4-Dinitrotoluene	9.927	165	50041	4.699	ug/ml	94
68) 4-Nitrophenol	9.880	65	32159	5.239	ug/ml#	90
69) 2,3,5,6-Tetrachlorophenol	10.022	232	52335	5.940	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	53523	6.152	ug/ml	99
71) Diethyl phthalate	10.192	149	198362	5.497	ug/ml	97
72) Fluorene	10.263	166	201378	5.468	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.280	204	102835	5.519	ug/ml	89
74) 4-Nitroaniline	10.286	138	40513	5.566	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.322	198	23532	4.232	ug/ml#	63
76) NDPA/DPA	10.398	169	175362	5.590	ug/ml	94
77) Azobenzene	10.433	77	199756	5.722	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	56638	5.427	ug/ml#	87
80) Hexachlorobenzene	10.810	284	64431	5.392	ug/ml#	88
81) Pentachlorophenol	10.998	266	37359	5.357	ug/ml	100
88) Phenanthrene	11.192	178	311941	5.278	ug/ml	99
89) Anthracene	11.245	178	323617	5.520	ug/ml	98
90) Carbazole	11.410	167	287846	5.448	ug/ml	98
91) Di-n-butylphthalate	11.798	149	343566	5.546	ug/ml	99
92) Fluoranthene	12.357	202	371982	5.510	ug/ml#	92
93) Benzidine	12.504	184	214564	5.230	ug/ml#	94
94) Pyrene	12.574	202	396732	5.493	ug/ml	99
96) Butyl benzyl phthalate	13.292	149	132785	4.557	ug/ml	94
104) Benzo(a)anthracene	13.821	228	366917	5.465	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.821	252	125706	5.814	ug/ml#	97
106) Chrysene	13.862	228	347792	5.420	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	222853	5.140	ug/ml#	95
108) Di-n-octylphthalate	14.621	149	332901	4.740	ug/ml#	74
109) Benzo(b)fluoranthene	14.945	252	328567	5.545	ug/ml#	94
110) Benzo(k)fluoranthene	14.968	252	326553	5.626	ug/ml#	93
111) Benzo(a)pyrene	15.257	252	305124	5.916	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	16.333	276	303147M6	6.281	ug/mL	
114) Dibenzo(a,h)anthracene	16.356	278	298480	6.178	ug/ml#	89
115) Benzo(ghi)perylene	16.603	276	272174	5.787	ug/ml#	89

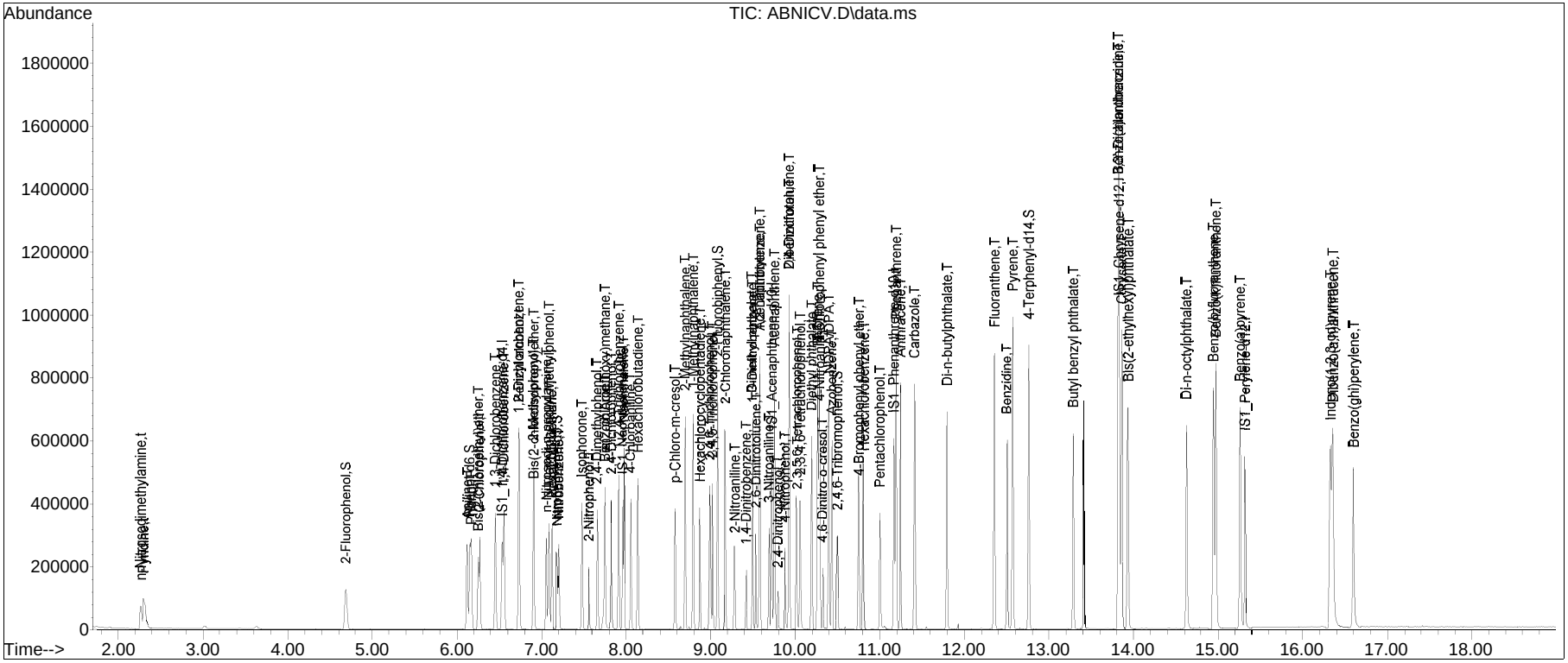
(#) = qualifier out of range (m) = manual integration (+) = signals summed

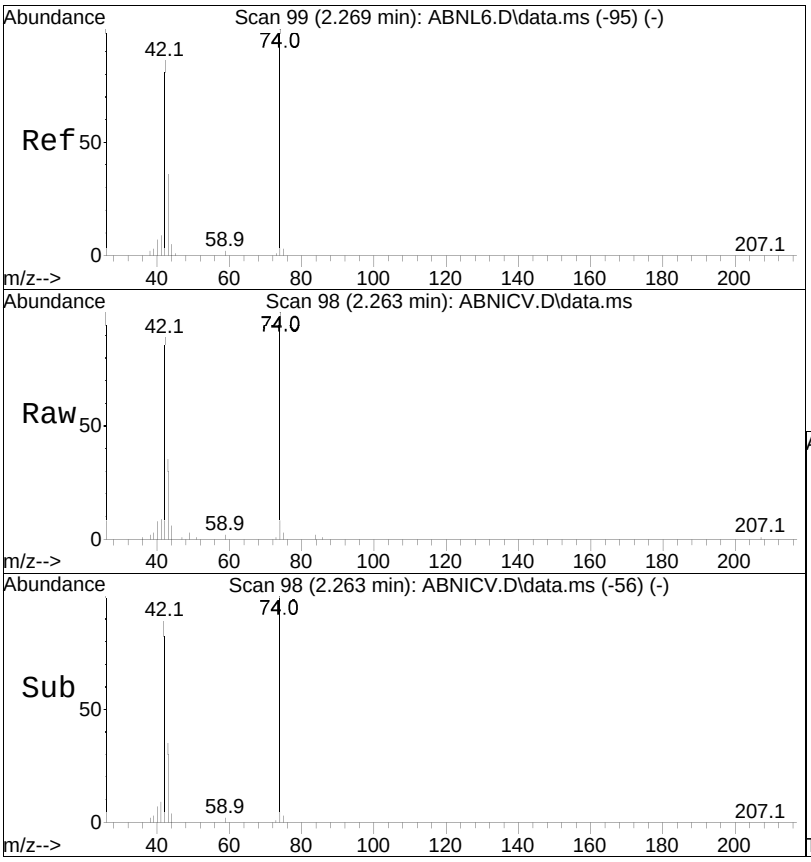
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L6.D•

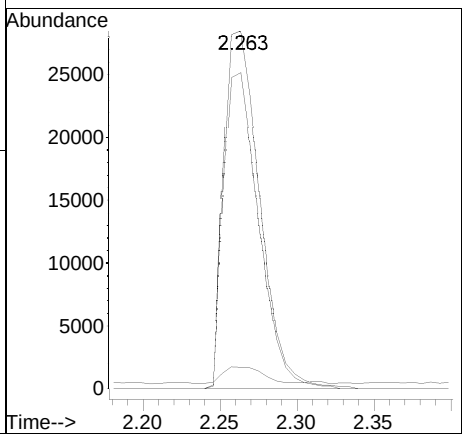


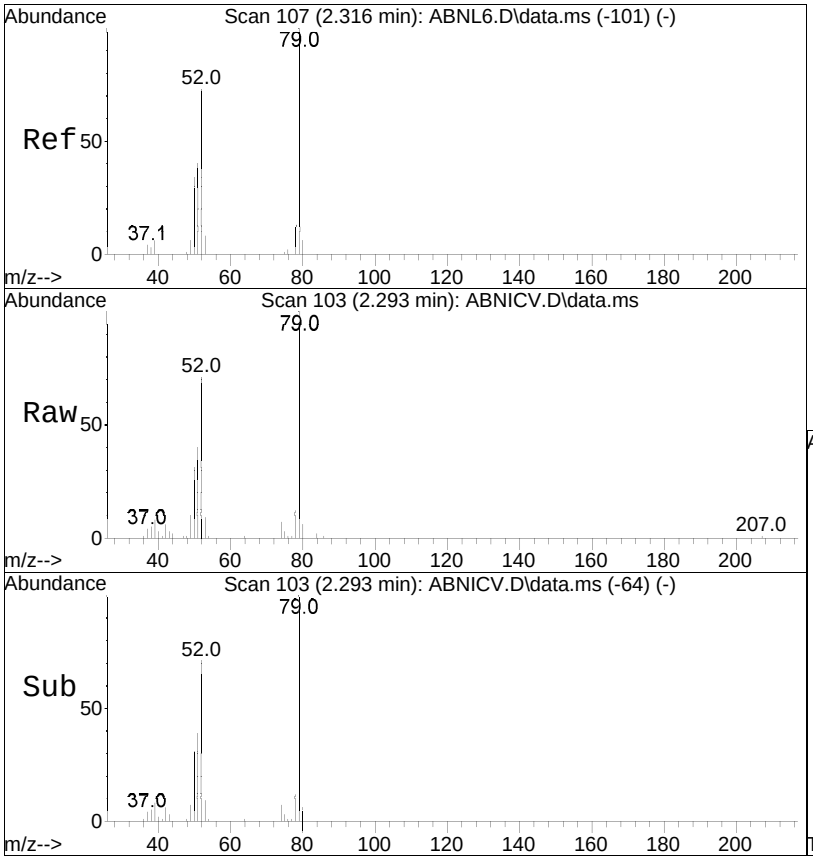


#2
n-Nitrosodimethylamine
Concen: 5.45 ug/ml
RT: 2.263 min Scan# 98
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 74 Resp: 46190

Ion	Ratio	Lower	Upper
74	100		
42	86.9	100.0	150.0#
44	5.2	6.7	10.1#

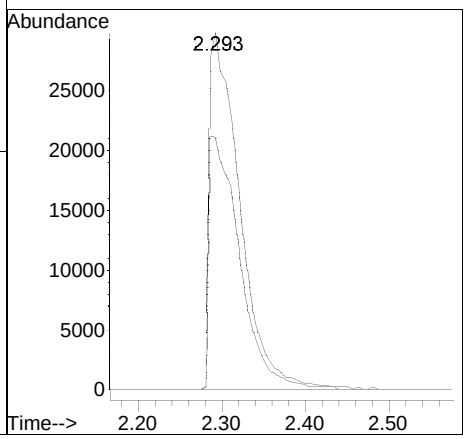


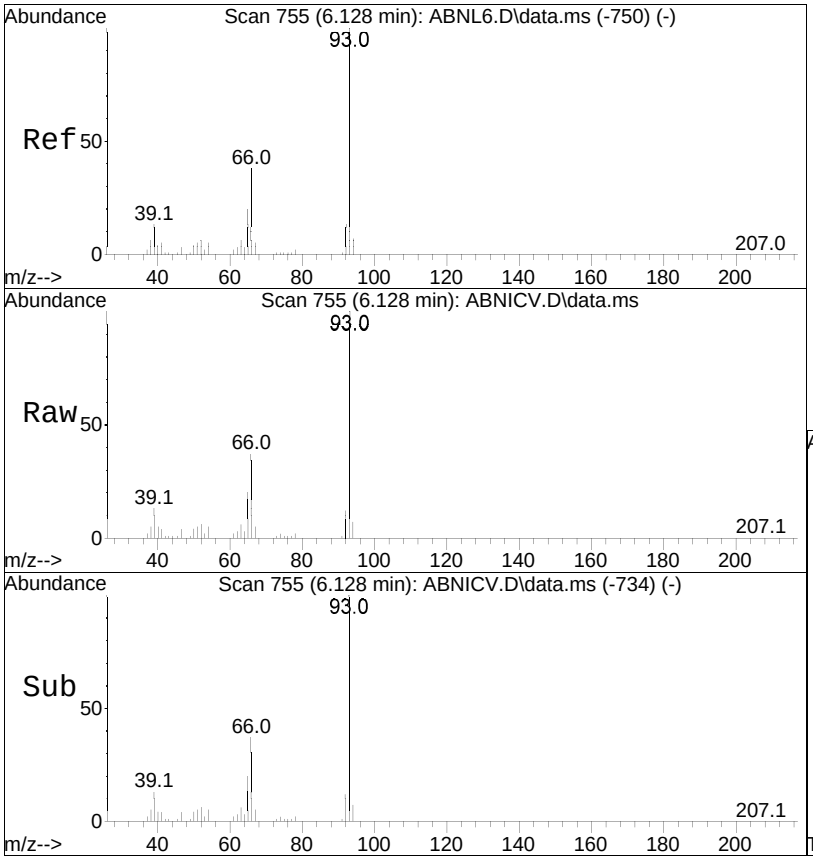


#3
Pyridine
Concen: 5.22 ug/ml
RT: 2.293 min Scan# 103
Delta R.T. -0.023 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 75290

Ion	Ratio	Lower	Upper
79	100		
52	72.0	93.1	139.7#

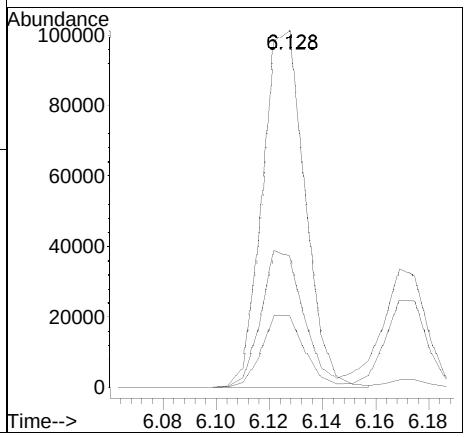


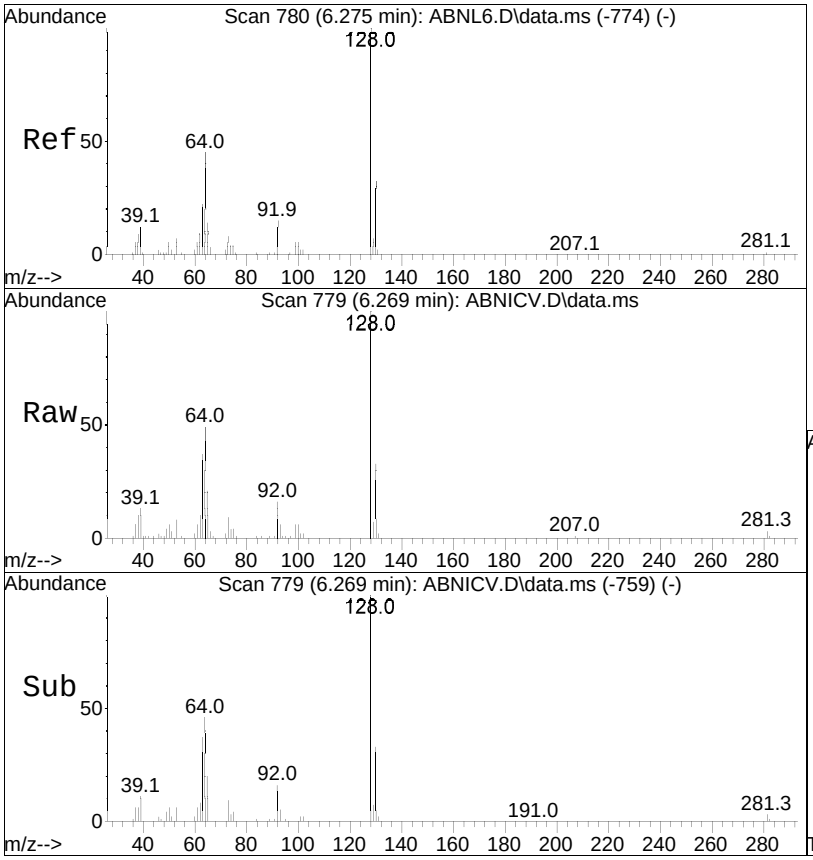


#5
Aniline
Concen: 5.44 ug/ml
RT: 6.128 min Scan# 755
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 112111

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.3	17.6	26.4

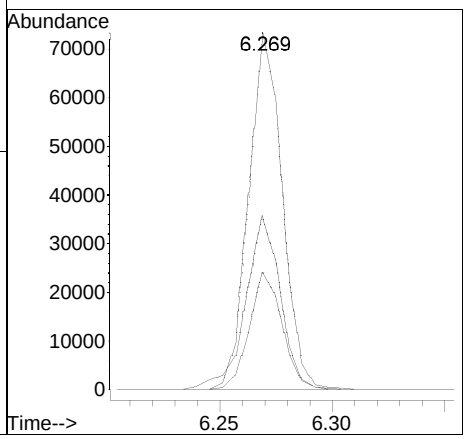


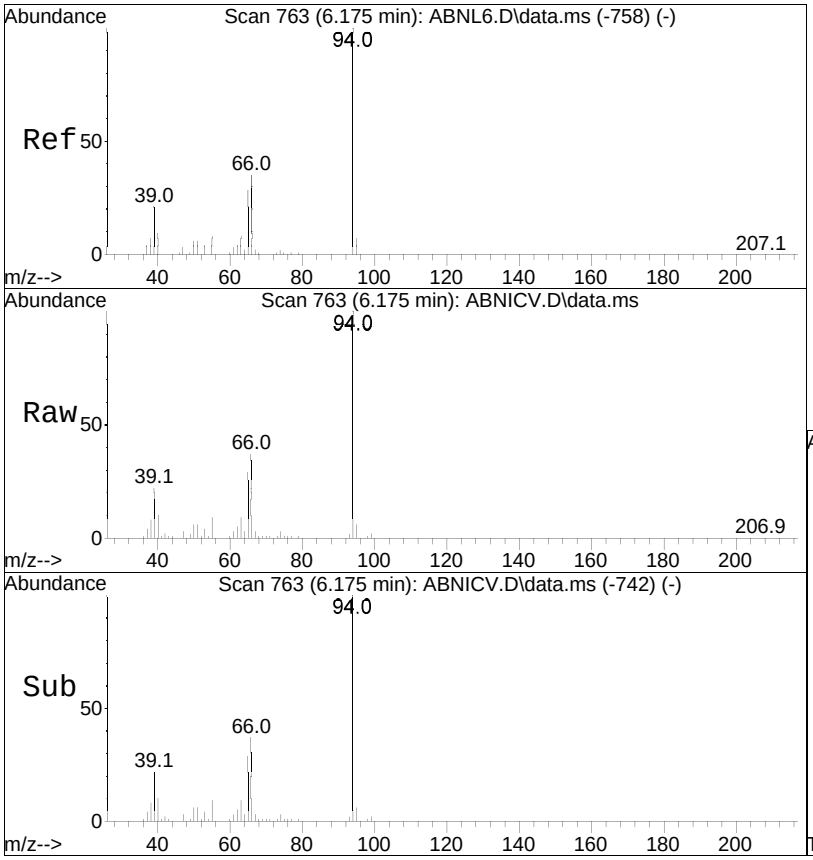


#6
2-Chlorophenol
Concen: 5.34 ug/ml
RT: 6.269 min Scan# 779
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 75656

Ion	Ratio	Lower	Upper
128	100		
64	50.4	45.1	67.7
130	32.3	26.2	39.4

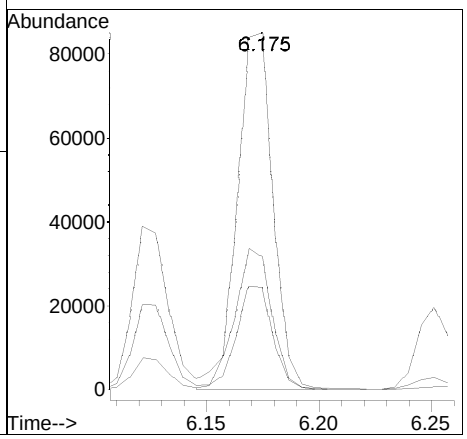


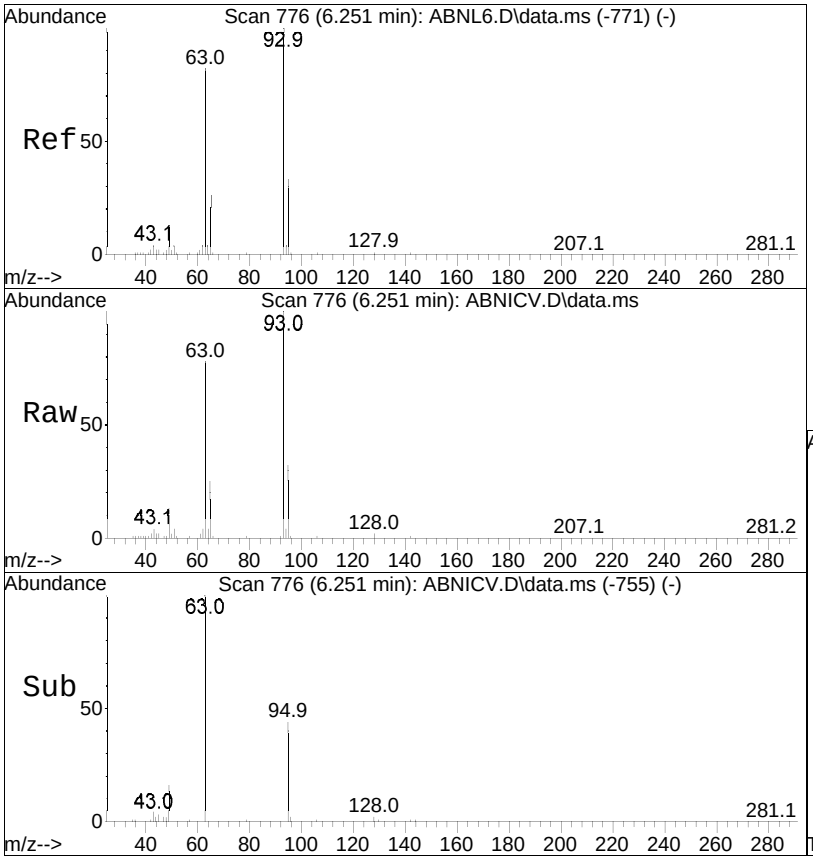


#8
Phenol
Concen: 5.35 ug/ml
RT: 6.175 min Scan# 763
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 94 Resp: 92596

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	42.7	33.8	50.8

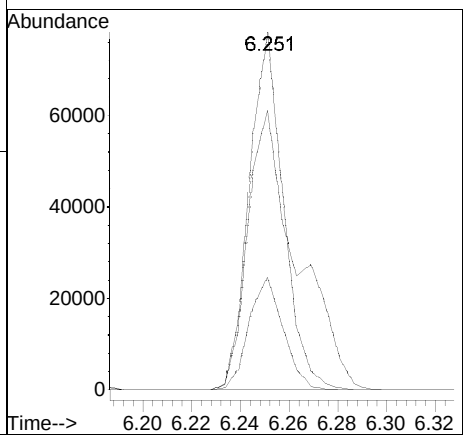


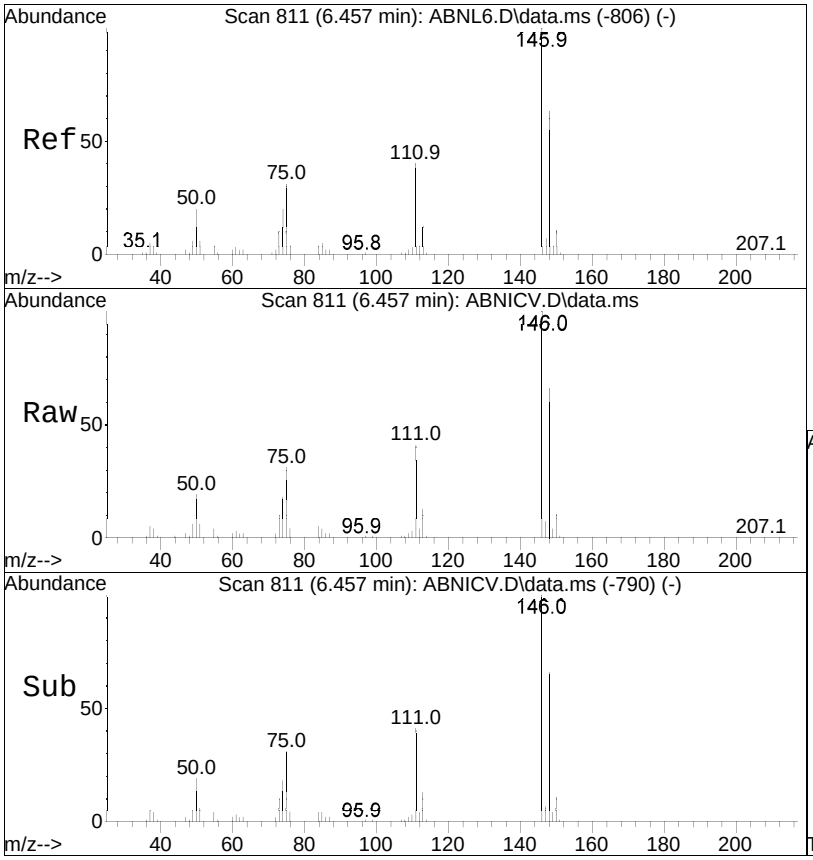


#9
Bis(2-chloroethyl)ether
Concen: 5.30 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 75604

Ion	Ratio	Lower	Upper
93	100		
63	112.3	74.6	111.8#
95	31.8	25.9	38.9

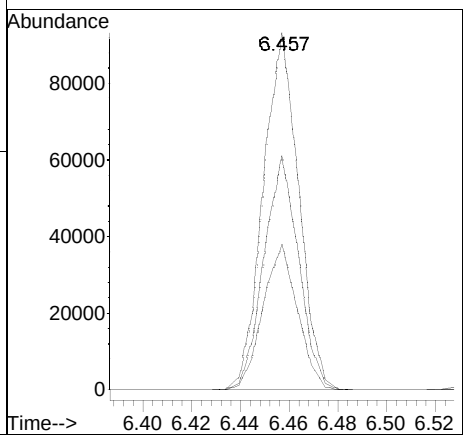


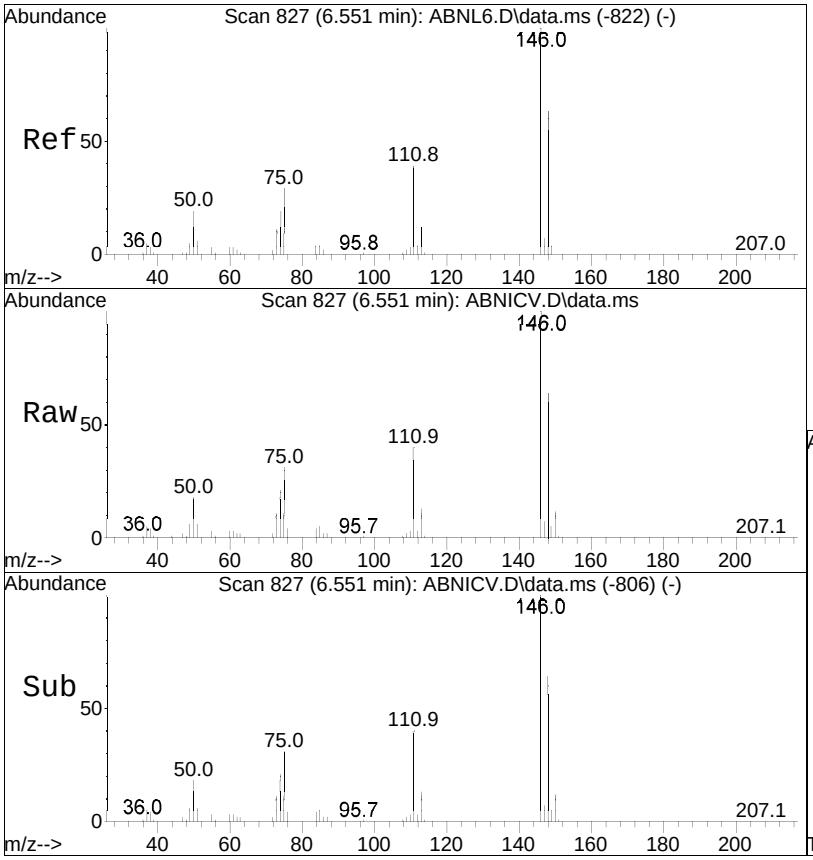


#10
1,3-Dichlorobenzene
Concen: 5.34 ug/ml
RT: 6.457 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93317

Ion	Ratio	Lower	Upper
146	100		
111	39.9	34.3	51.5
148	64.2	50.8	76.2

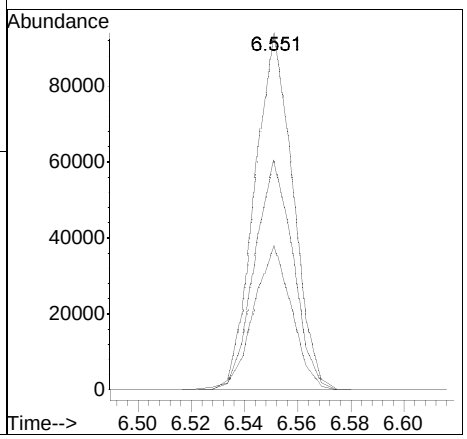


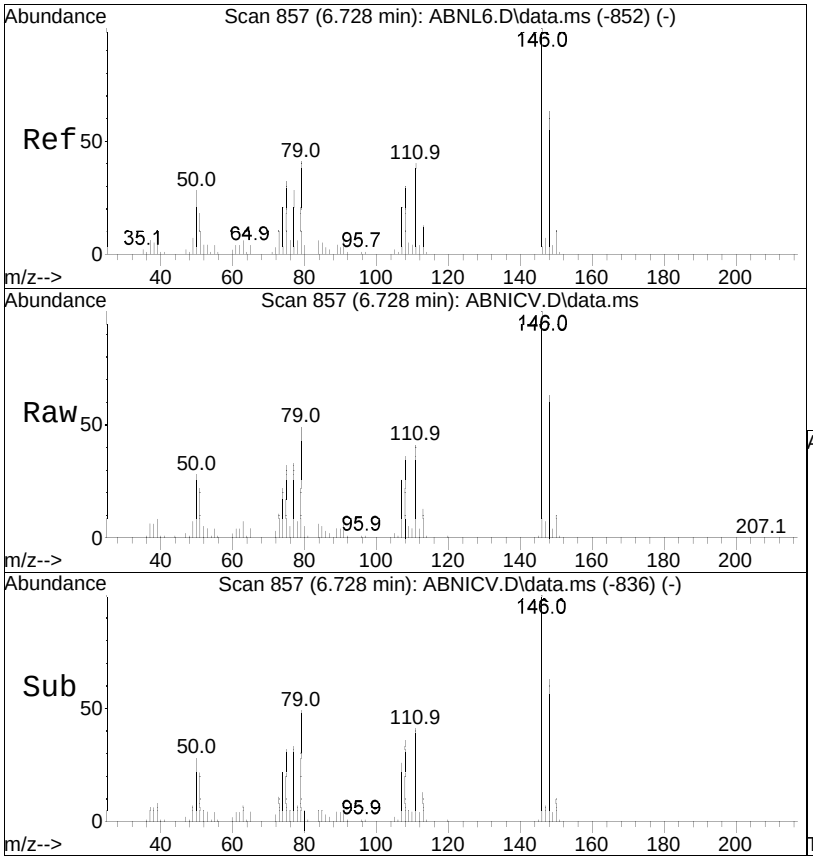


#11
1,4-Dichlorobenzene
Concen: 5.26 ug/ml
RT: 6.551 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93546

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.7	76.1
111	40.3	33.4	50.0

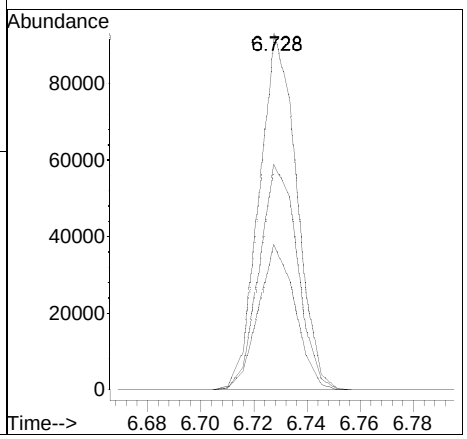


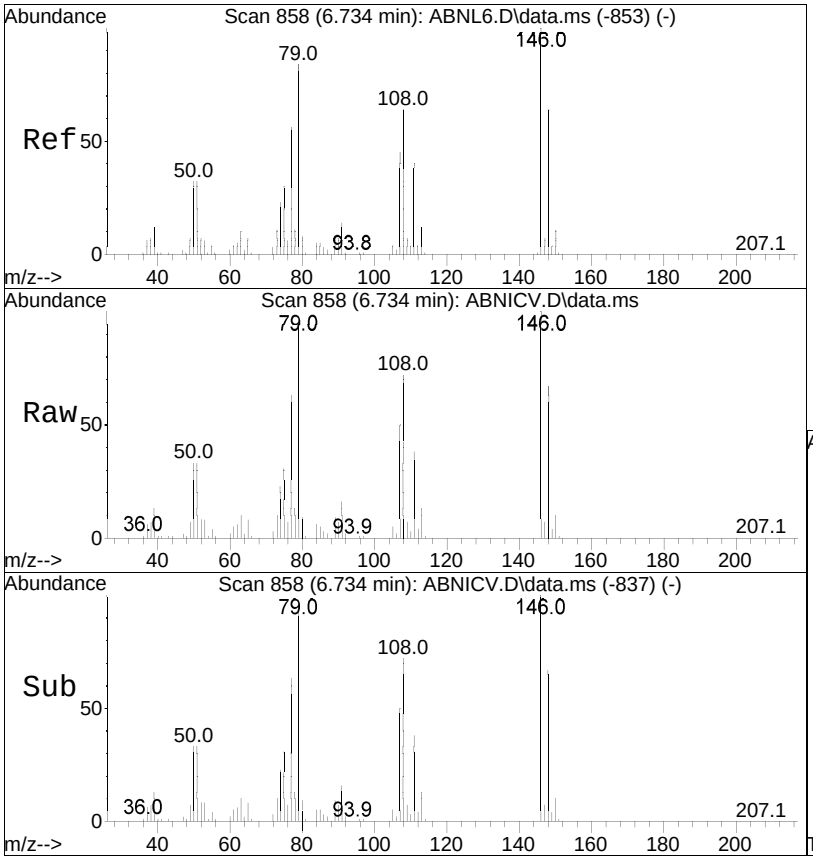


#12
1,2-Dichlorobenzene
Concen: 5.28 ug/ml
RT: 6.728 min Scan# 857
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 90658

Ion	Ratio	Lower	Upper
146	100		
111	40.3	34.6	52.0
148	64.3	50.2	75.4

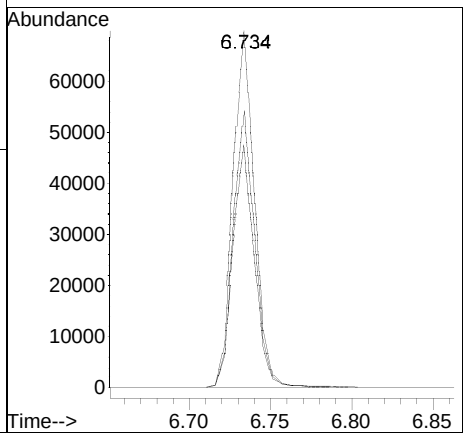


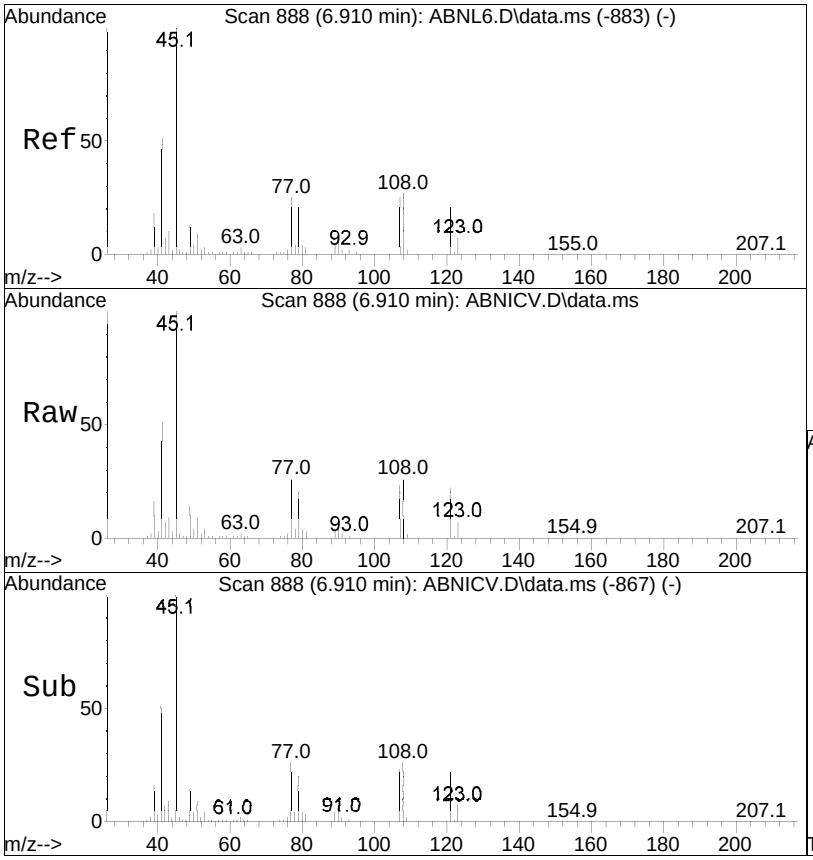


#13
Benzyl alcohol
Concen: 5.35 ug/ml
RT: 6.734 min Scan# 858
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 64368

Ion	Ratio	Lower	Upper
79	100		
77	68.0	54.9	82.3
108	77.1	63.1	94.7

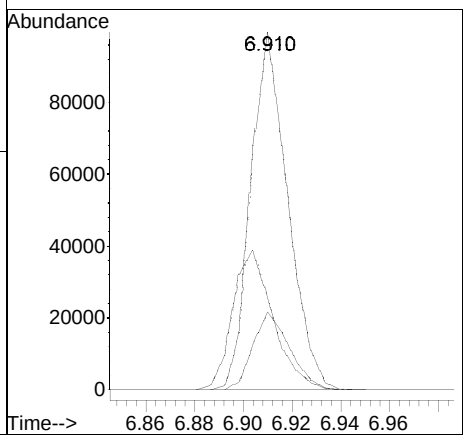


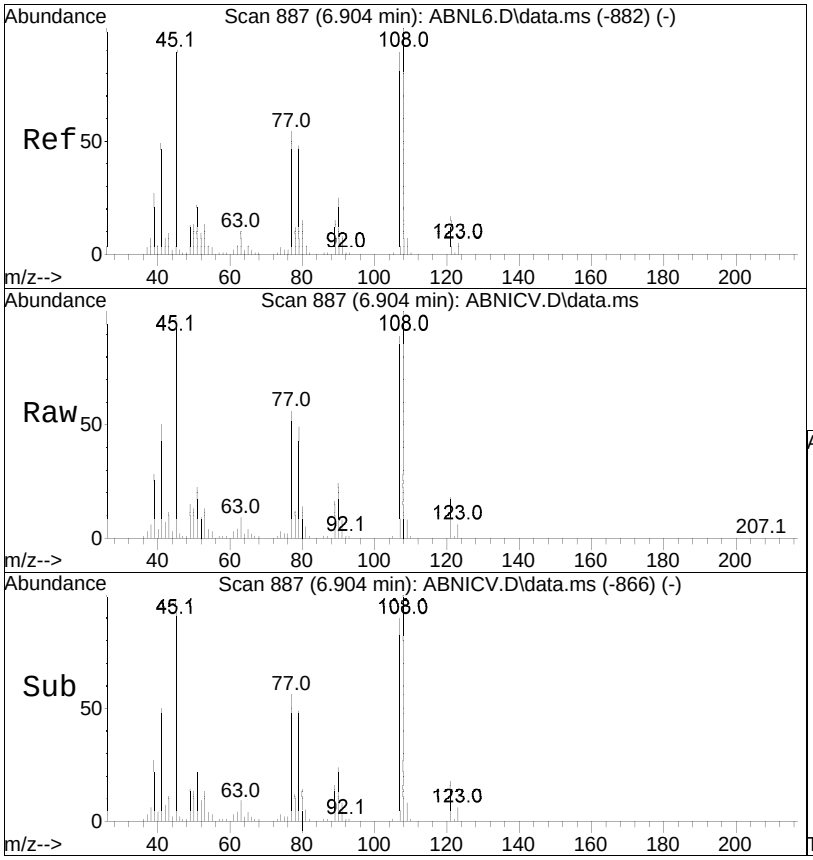


#14
Bis(2-chloroisopropyl)ether
Concen: 5.34 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 45 Resp: 104198

Ion	Ratio	Lower	Upper
45	100		
121	21.6	9.8	14.6#
77	43.0	6.1	9.1#

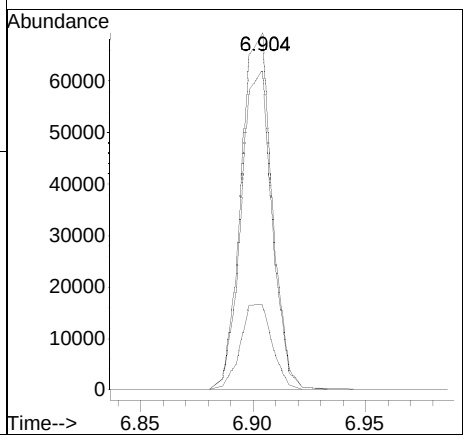


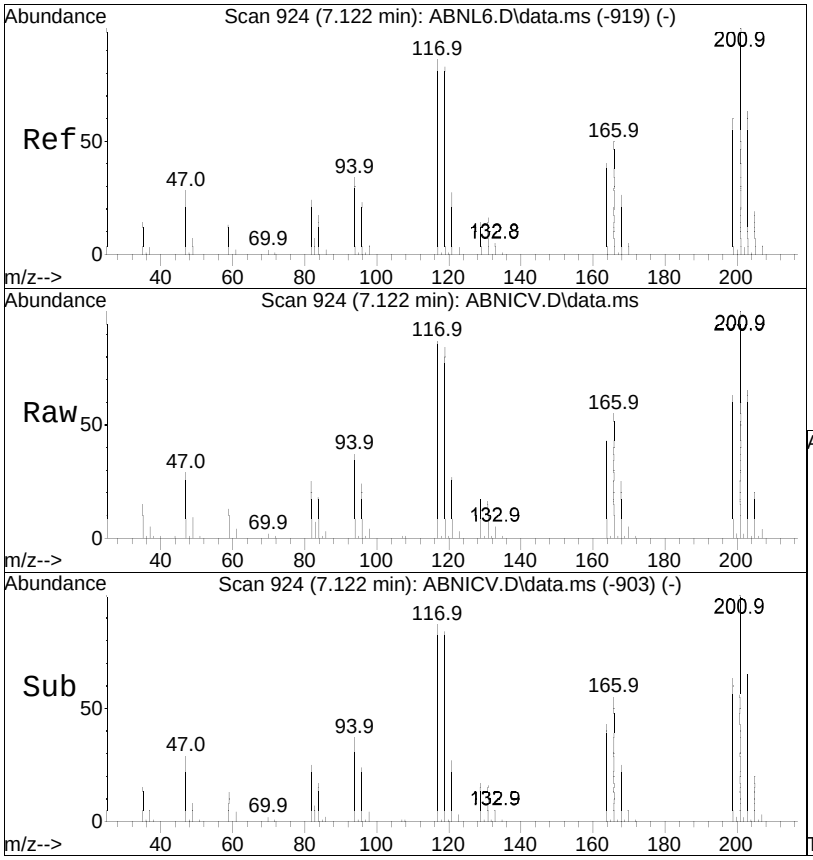


#15
2-Methylphenol
Concen: 5.38 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 66691

Ion	Ratio	Lower	Upper
108	100		
107	89.0	70.7	106.1
90	24.3	18.7	28.1

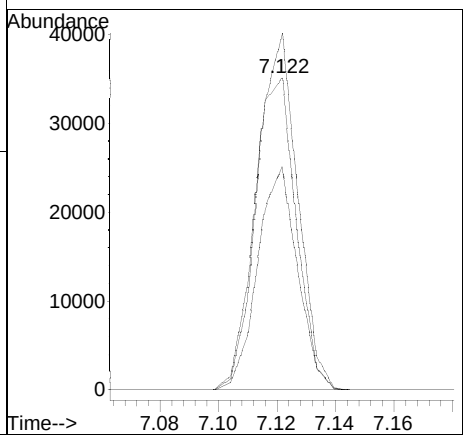


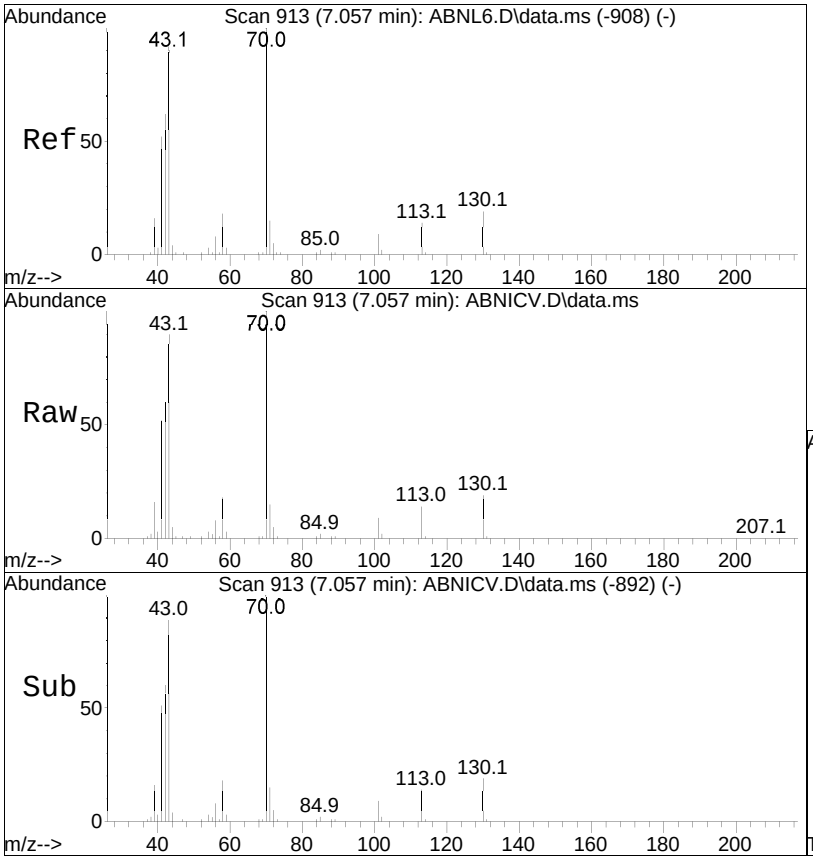


#16
Hexachloroethane
Concen: 5.34 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:117 Resp: 34991

Ion	Ratio	Lower	Upper
117	100		
201	109.1	58.6	87.8#
199	67.7	36.9	55.3#

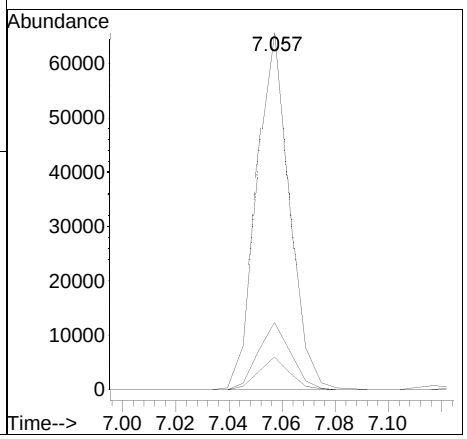


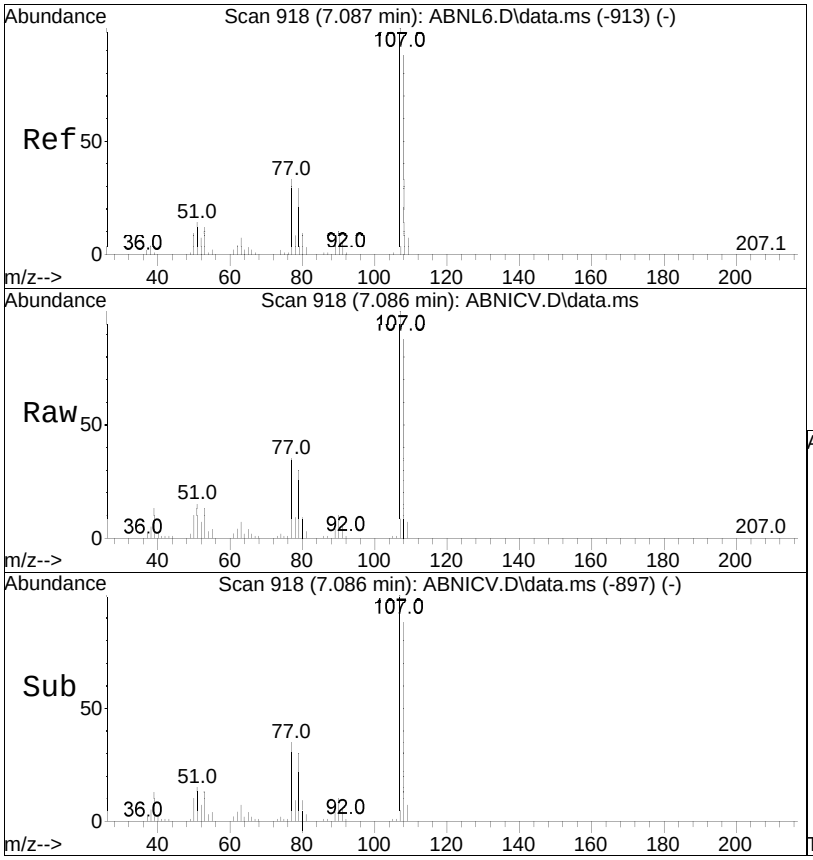


#17
n-Nitrosodi-n-propylamine
Concen: 5.33 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 70 Resp: 56436

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.7	7.8	11.8

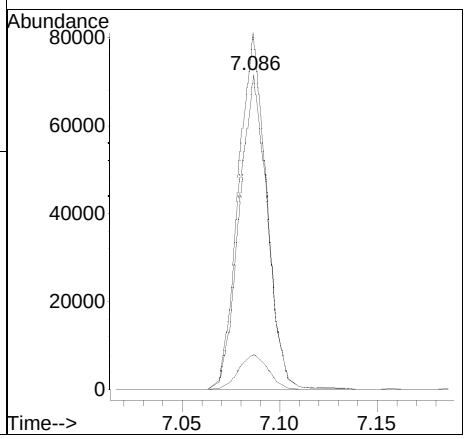


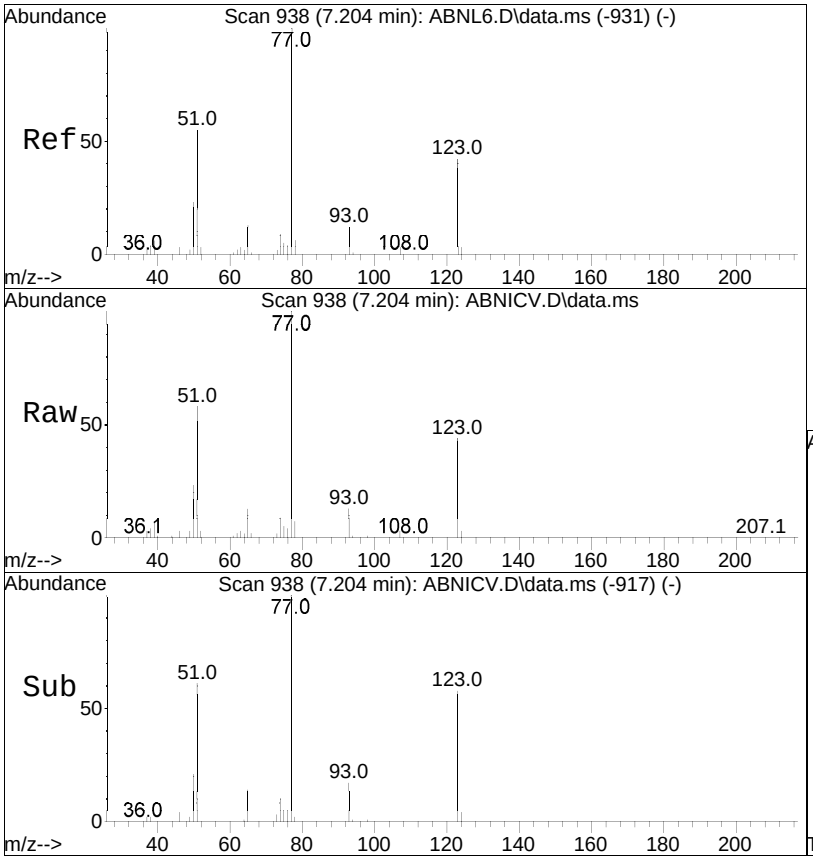


#18
3-Methylphenol/4-Methylphenol
Concen: 5.48 ug/ml
RT: 7.086 min Scan# 918
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 71562

Ion	Ratio	Lower	Upper
108	100		
107	113.0	88.6	132.8
90	11.6	8.8	13.2

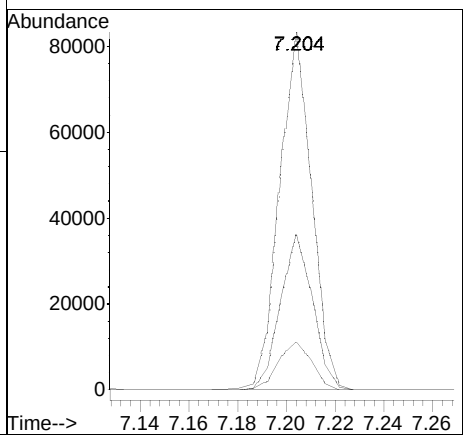


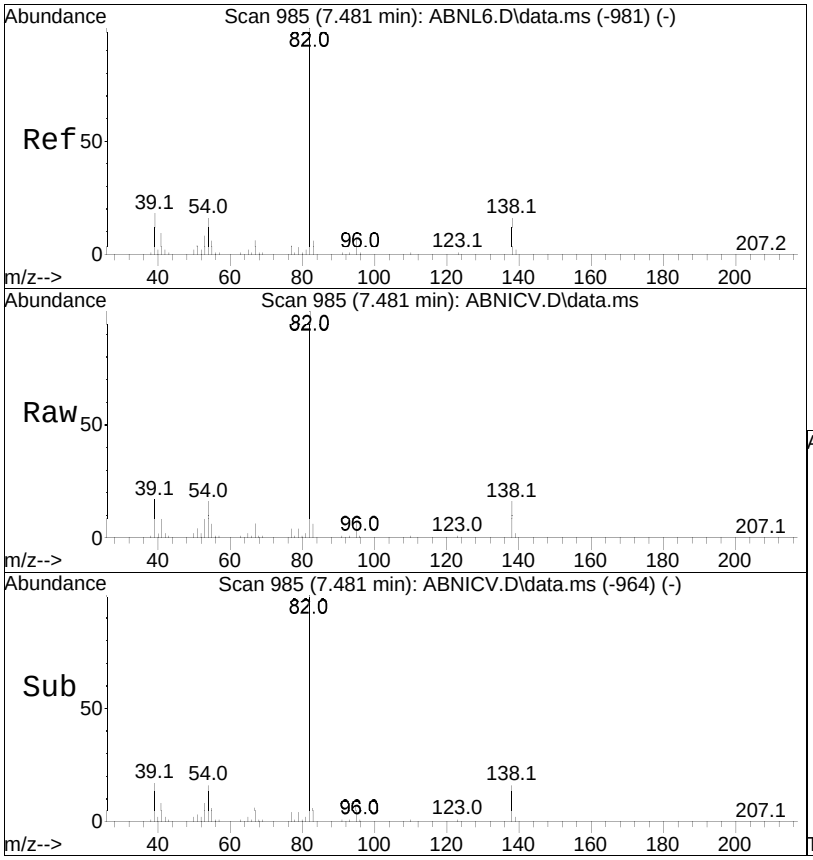


#20
Nitrobenzene
Concen: 5.27 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 75830

Ion	Ratio	Lower	Upper
77	100		
123	43.6	36.3	54.5
65	14.1	11.6	17.4

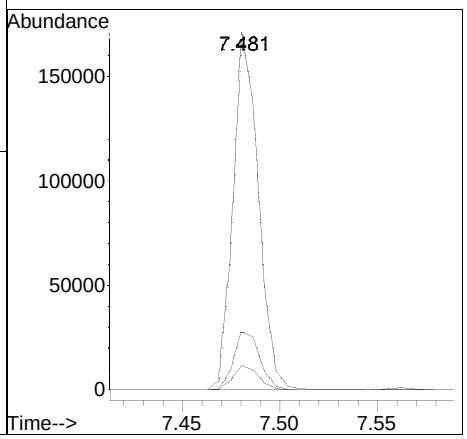


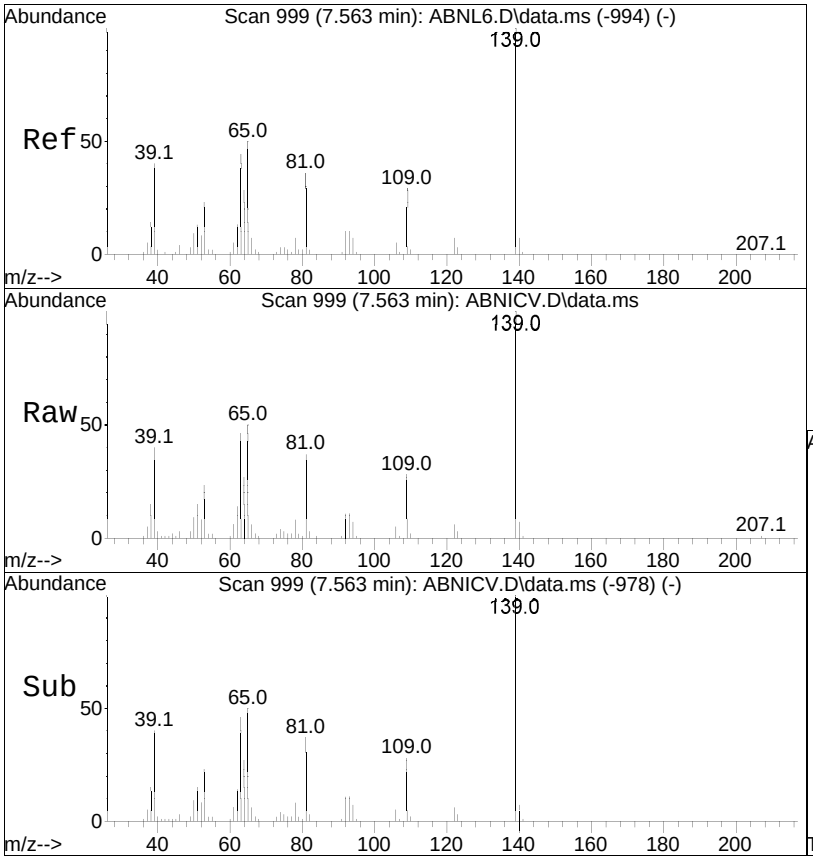


#21
Isophorone
Concen: 5.47 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 82 Resp: 152062

Ion	Ratio	Lower	Upper
82	100		
138	16.9	14.7	22.1
95	6.9	5.2	7.8

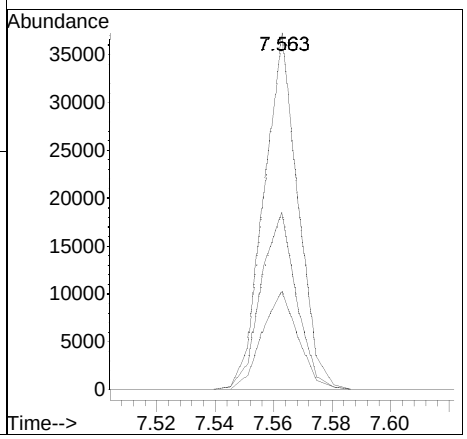


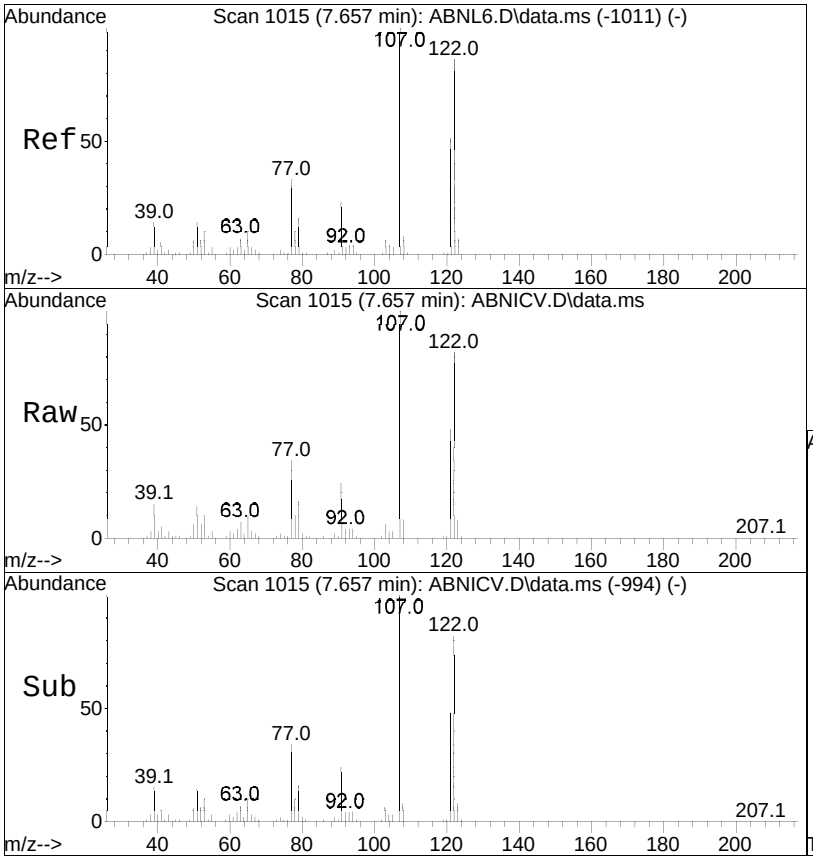


#22
2-Nitrophenol
Concen: 4.68 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:139 Resp: 30029

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	51.9	46.1	69.1

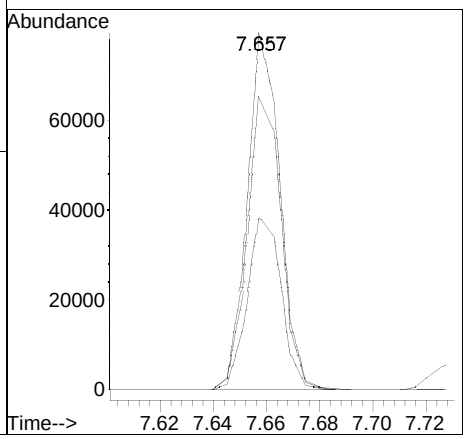


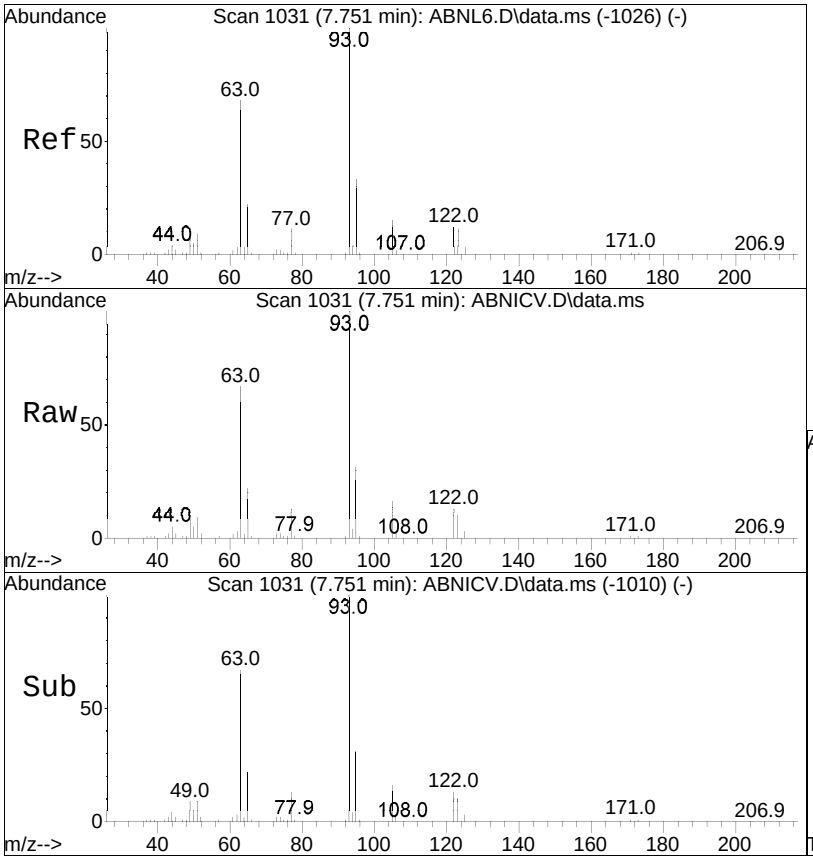


#23
2,4-Dimethylphenol
Concen: 5.15 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 67410

Ion	Ratio	Lower	Upper
107	100		
121	50.6	40.0	60.0
122	85.3	70.2	105.4

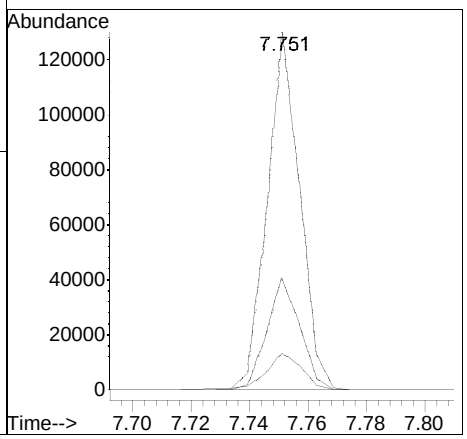


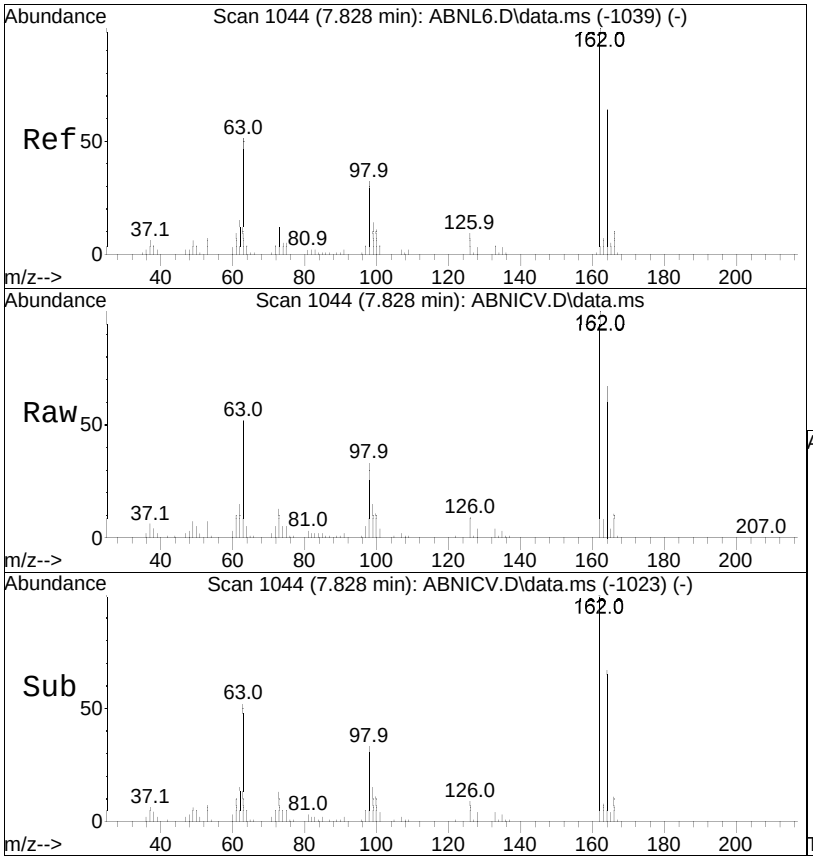


#24
Bis(2-chloroethoxy)methane
Concen: 5.45 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 98786

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	11.7	10.1	15.1

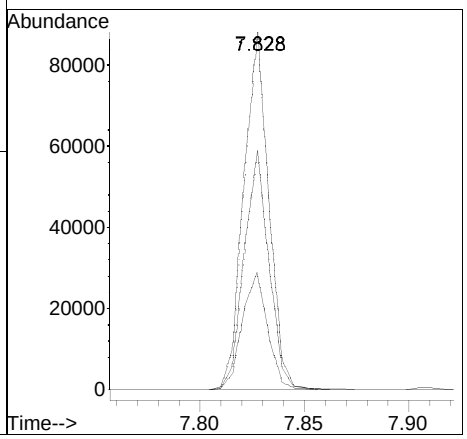


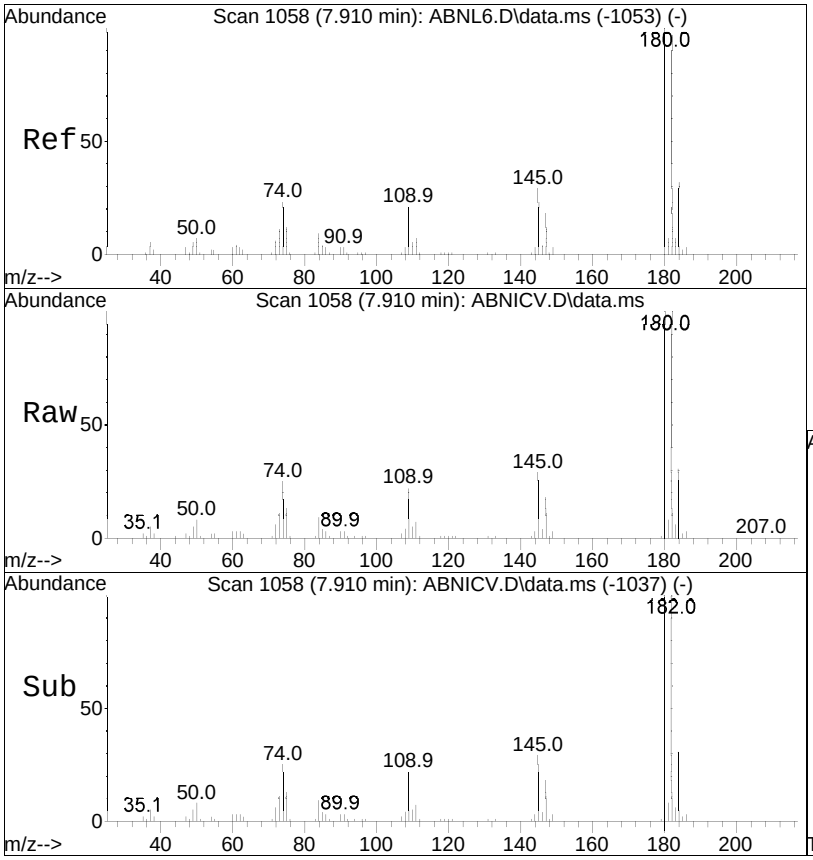


#25
2,4-Dichlorophenol
Concen: 5.52 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 72592

Ion	Ratio	Lower	Upper
162	100		
164	66.1	51.0	76.4
98	33.5	32.2	48.2

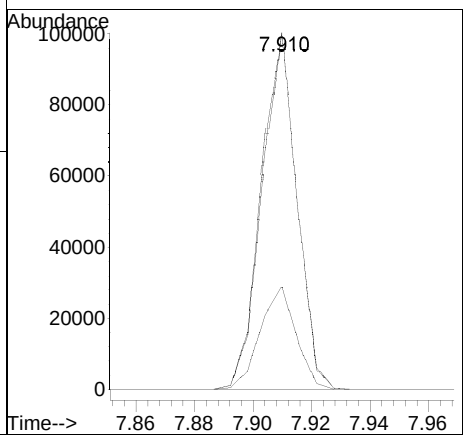


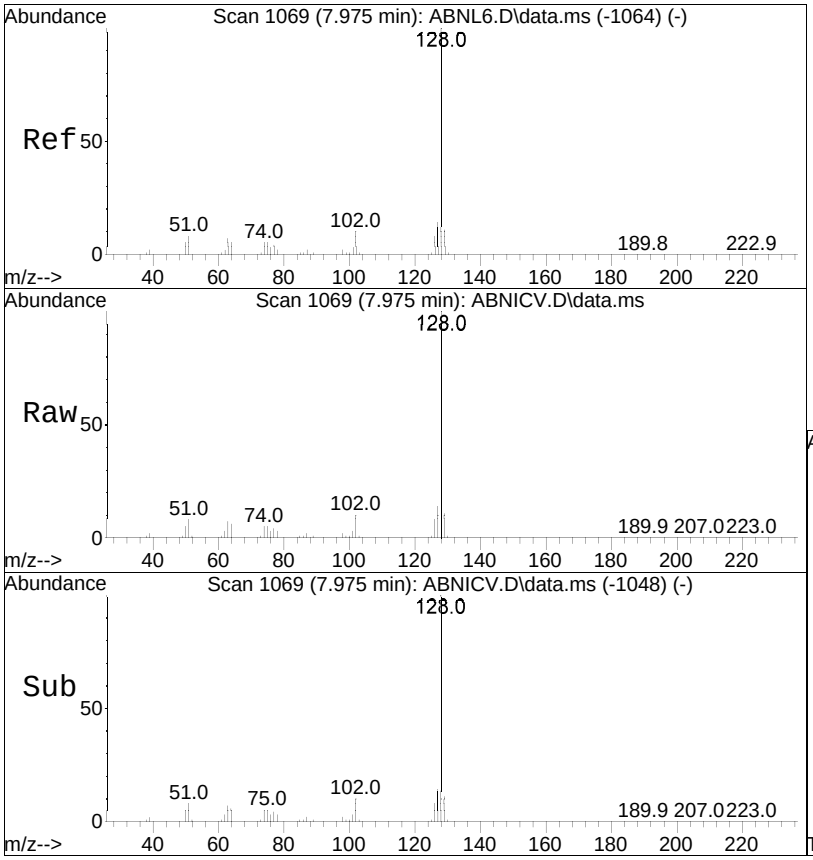


#26
1,2,4-Trichlorobenzene
Concen: 5.35 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:180 Resp: 84896

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	29.0	25.7	38.5

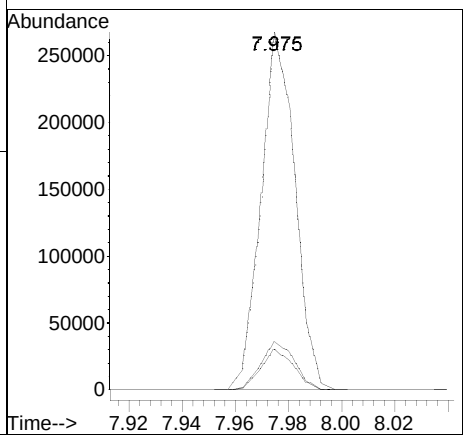


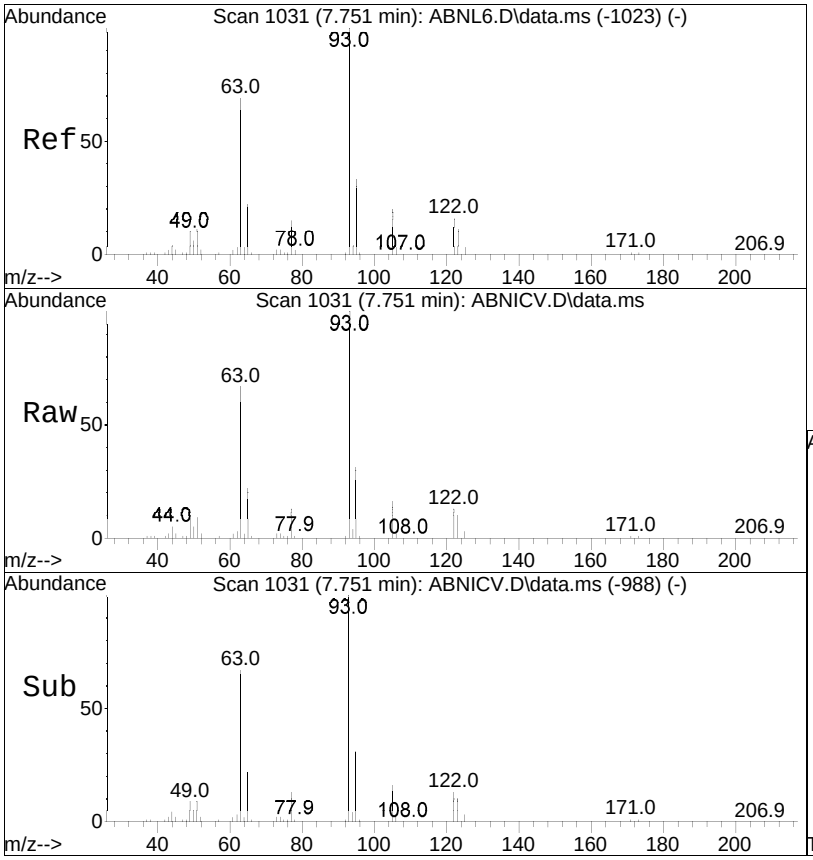


#35
Naphthalene
Concen: 5.22 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 234099

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.3	15.5

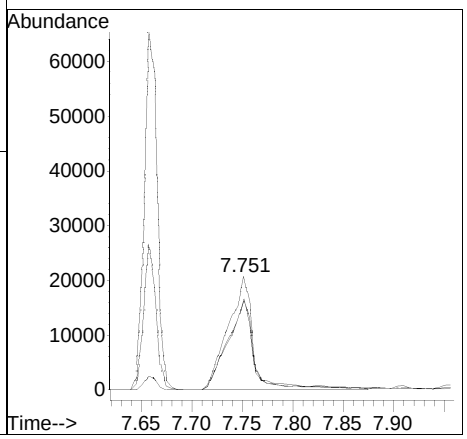


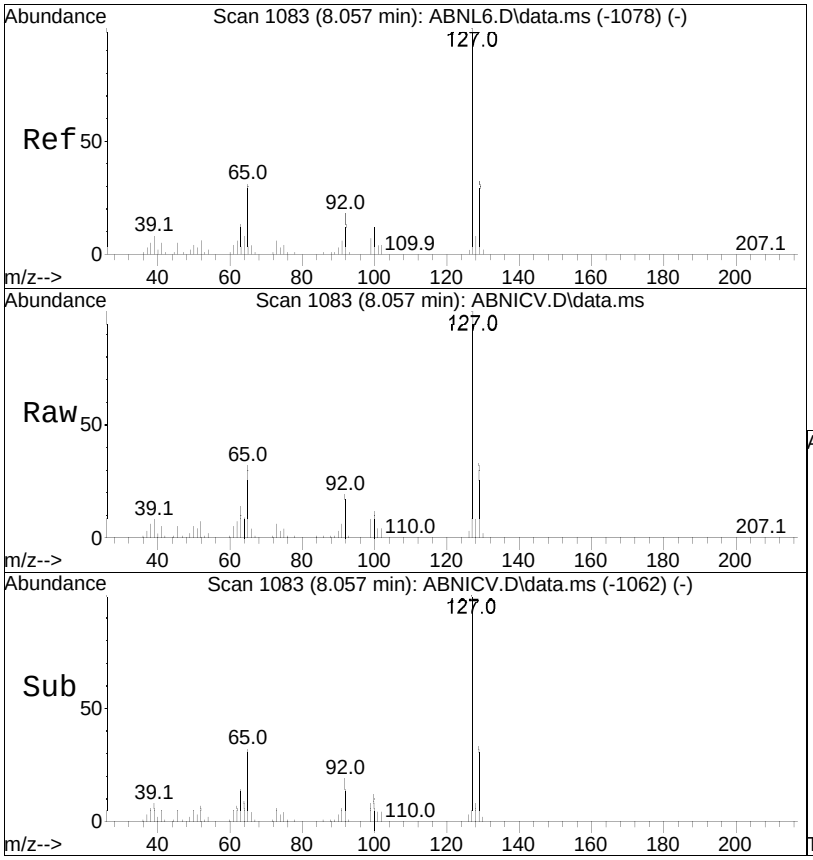


#36
Benzoic Acid
Concen: 4.82 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:105 Resp: 37692

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	75.3	60.1	90.1

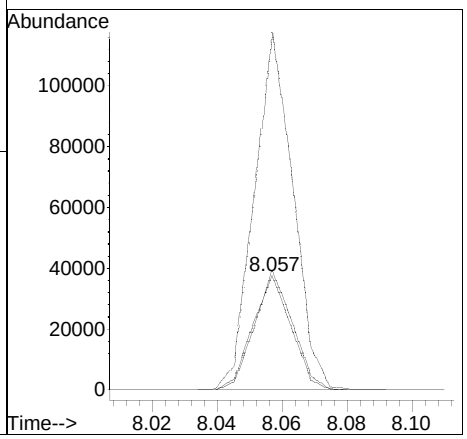


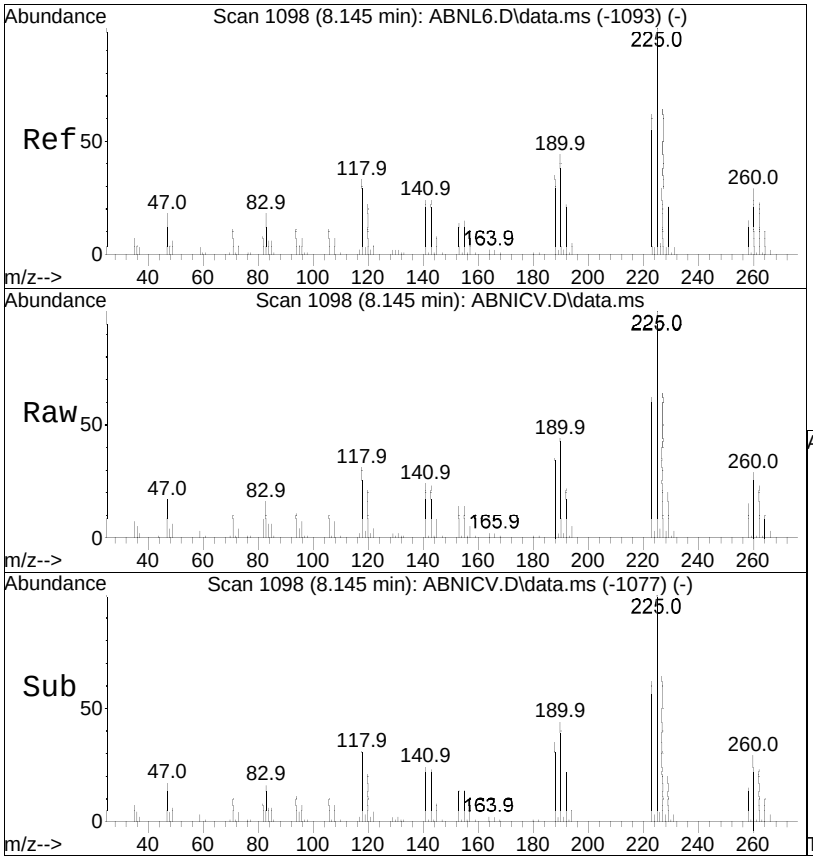


#37
4-Chloroaniline
Concen: 5.40 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 30505

Ion	Ratio	Lower	Upper
65	100		
127	316.4	237.6	356.4
129	103.0	76.3	114.5

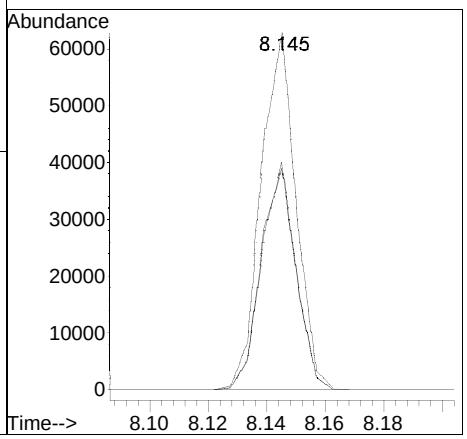


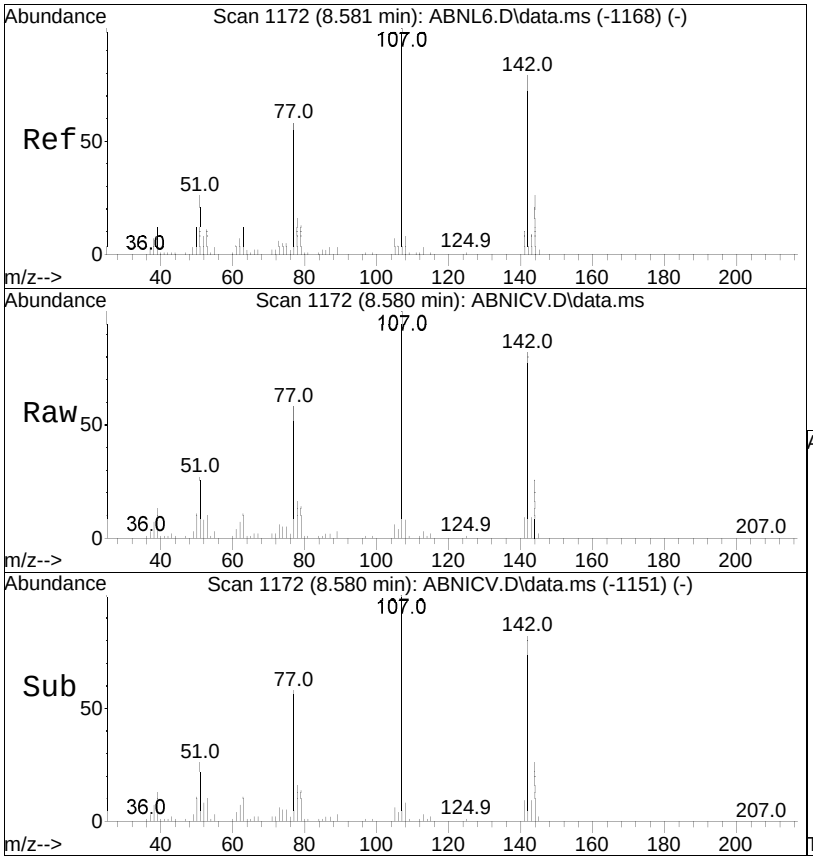


#38
Hexachlorobutadiene
Concen: 5.46 ug/ml
RT: 8.145 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:225 Resp: 51724

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	62.7	52.2	78.2

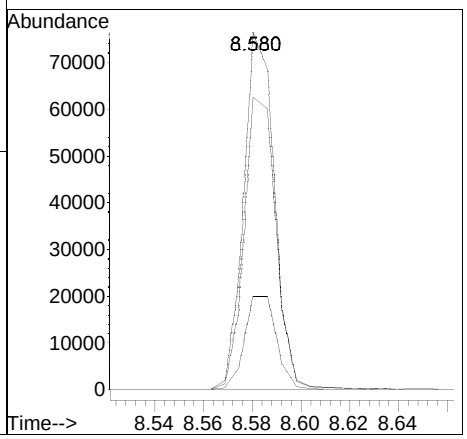


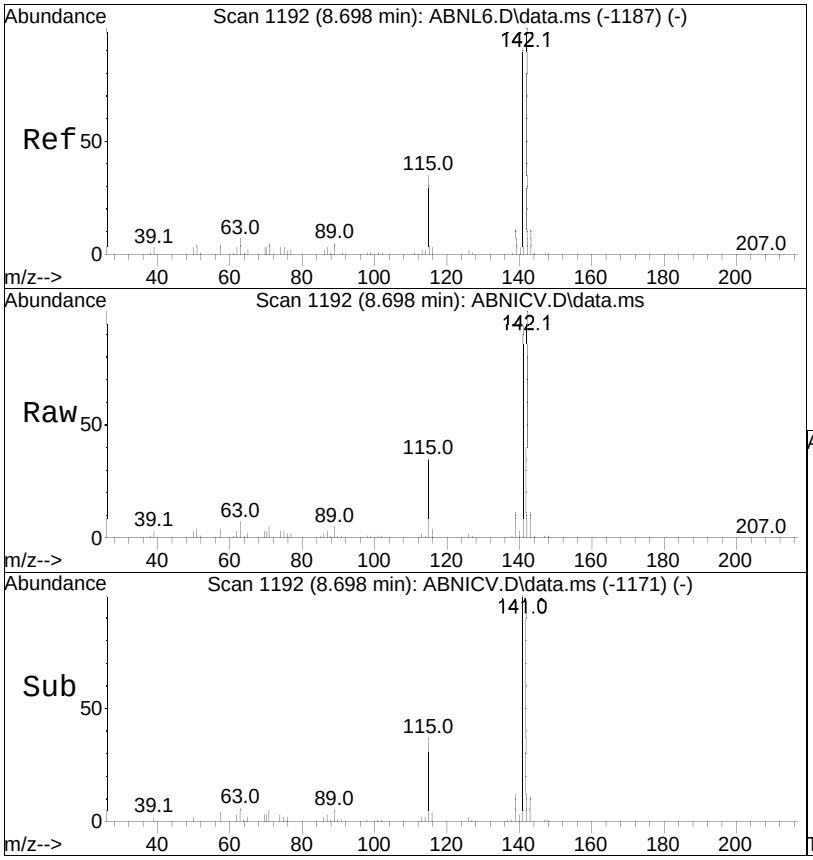


#39
p-Chloro-m-cresol
Concen: 5.45 ug/ml
RT: 8.580 min Scan# 1172
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 66777

Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.9	31.3
142	84.7	66.1	99.1

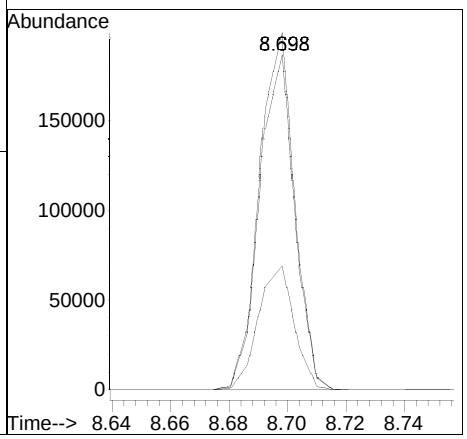


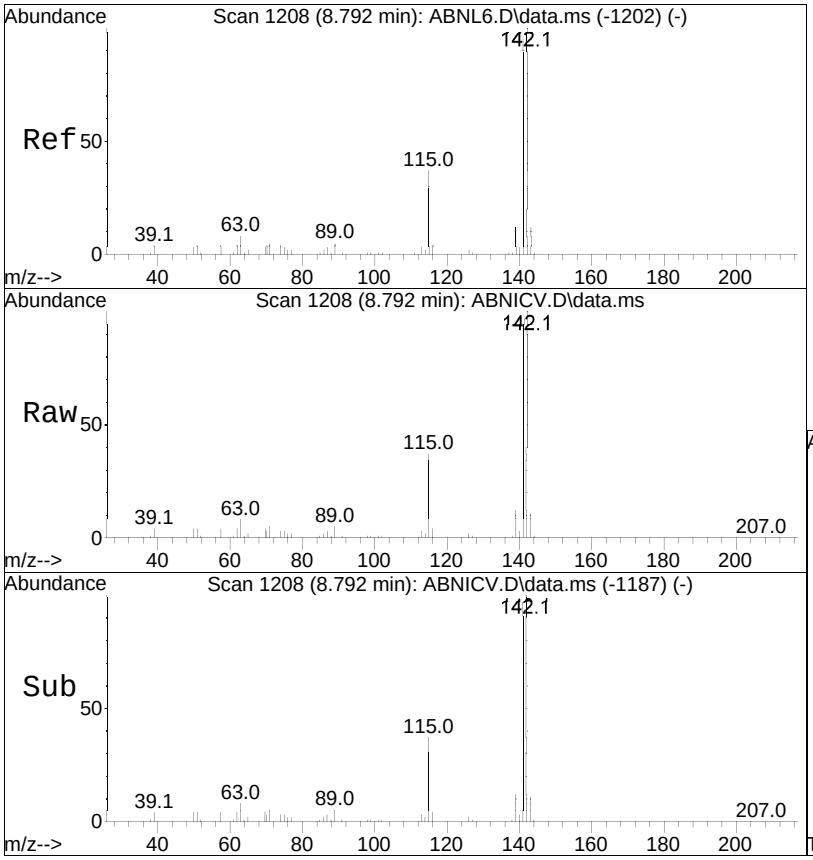


#40
2-Methylnaphthalene
Concen: 5.37 ug/ml
RT: 8.698 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:142 Resp: 166439

Ion	Ratio	Lower	Upper
142	100		
141	93.2	69.6	104.4
115	35.6	26.6	40.0

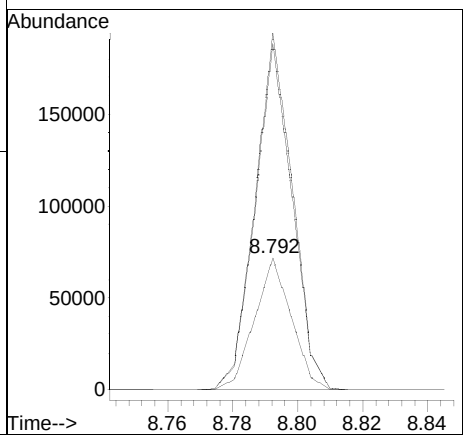


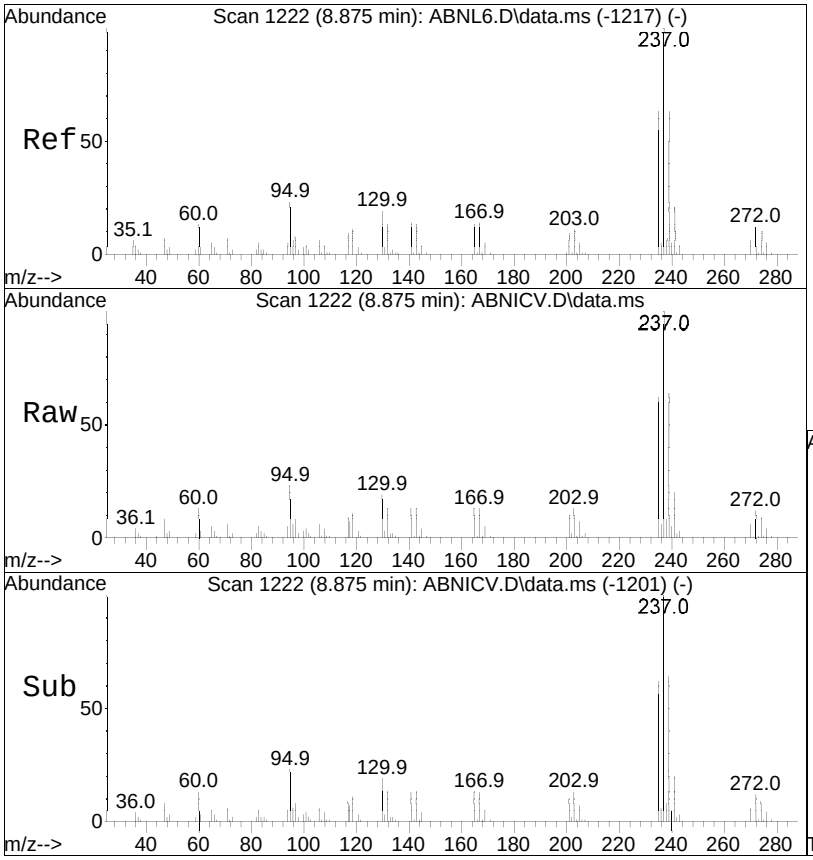


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml
RT: 8.792 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:115 Resp: 56538

Ion	Ratio	Lower	Upper
115	100		
141	261.8	207.8	311.6
142	273.1	226.8	340.2

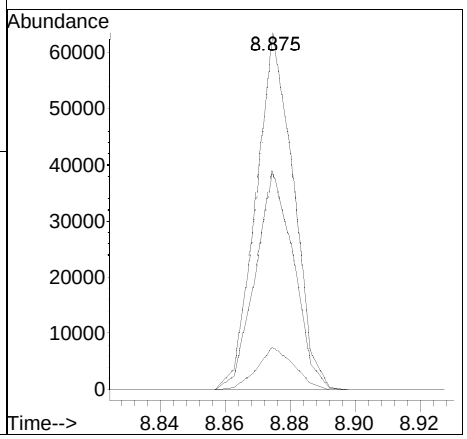


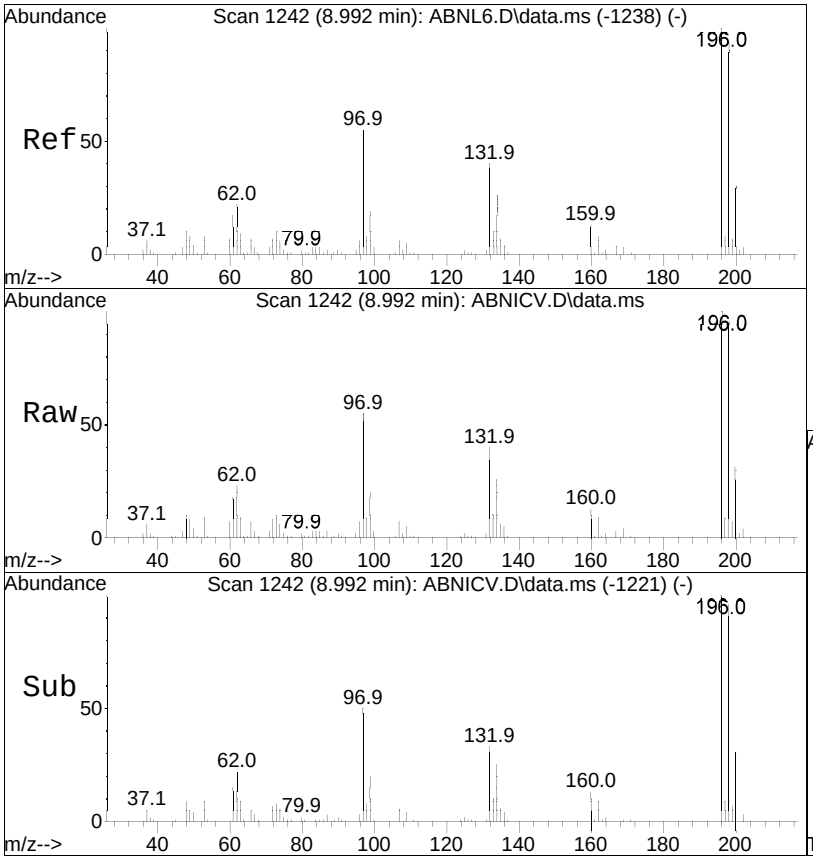


#42
Hexachlorocyclopentadiene
Concen: 5.48 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:237 Resp: 50620

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.9	9.8	14.6

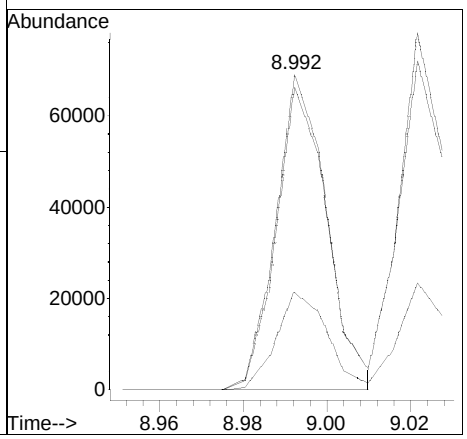


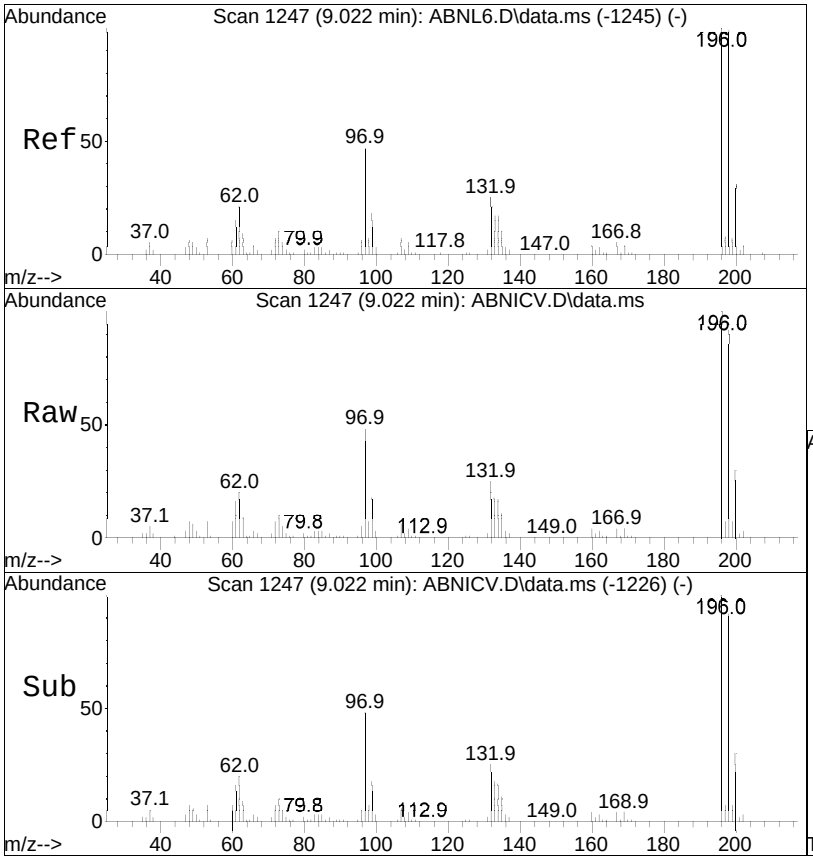


#43
2,4,6-Trichlorophenol
Concen: 5.49 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 58438

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.5	116.3
200	31.5	23.8	35.6

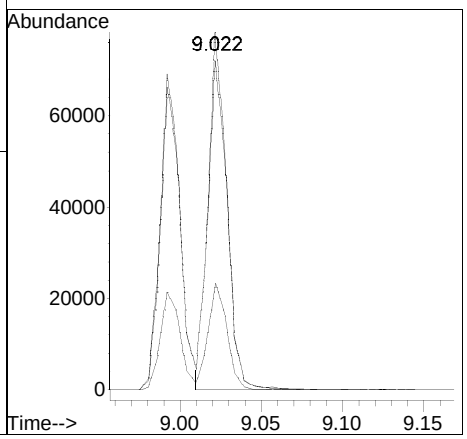


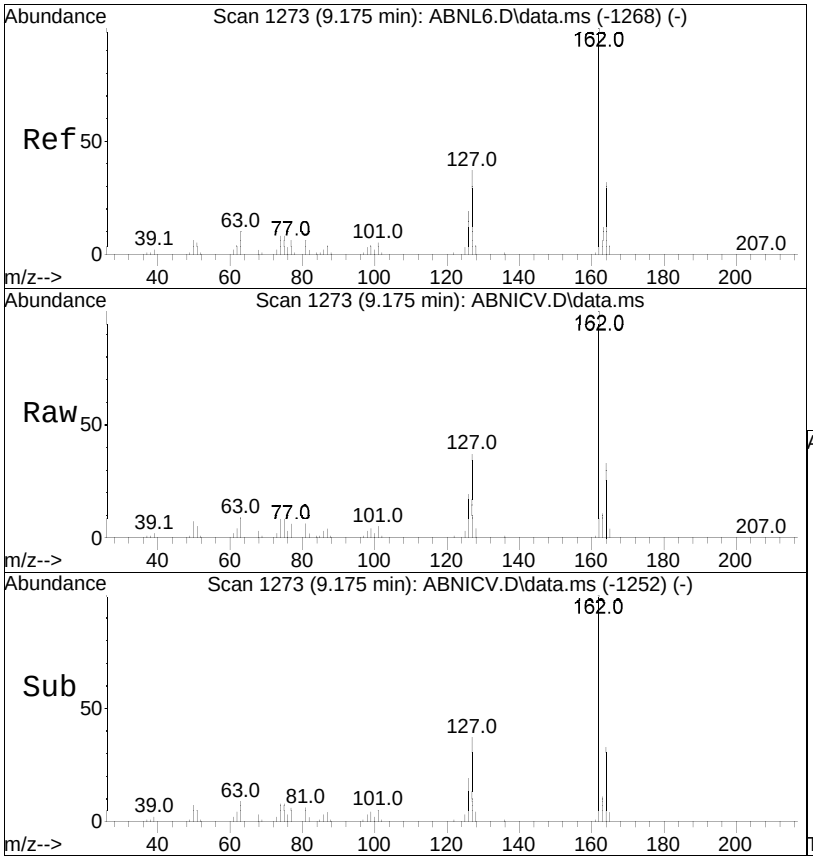


#44
2,4,5-Trichlorophenol
Concen: 5.54 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 62619

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	95.3	78.0	117.0

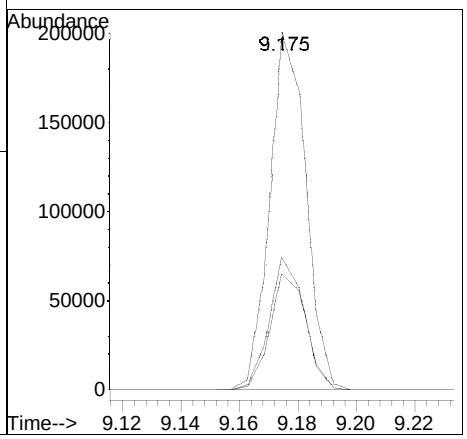


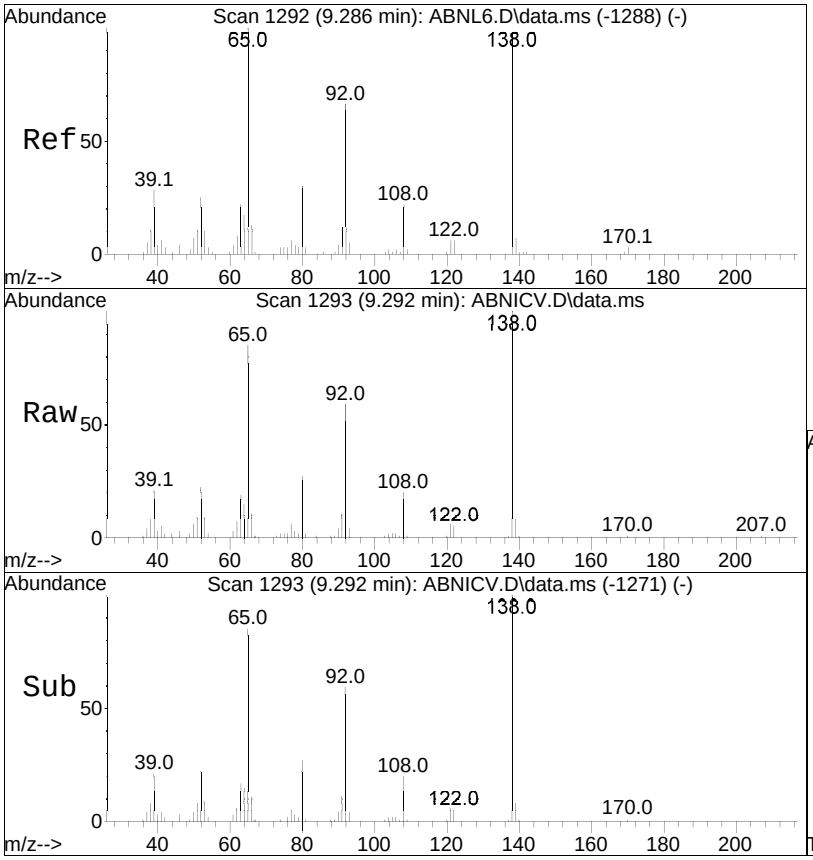


#46
2-Chloronaphthalene
Concen: 5.28 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 170033

Ion	Ratio	Lower	Upper
162	100		
127	36.0	32.2	48.4
164	32.8	25.7	38.5

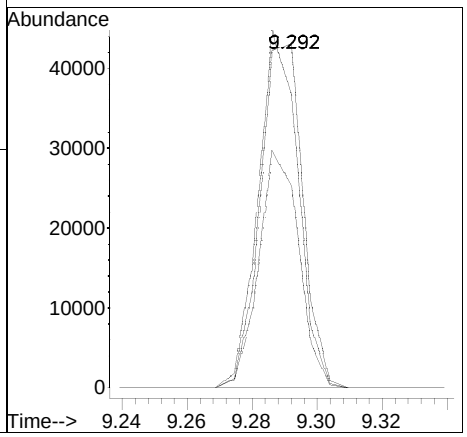


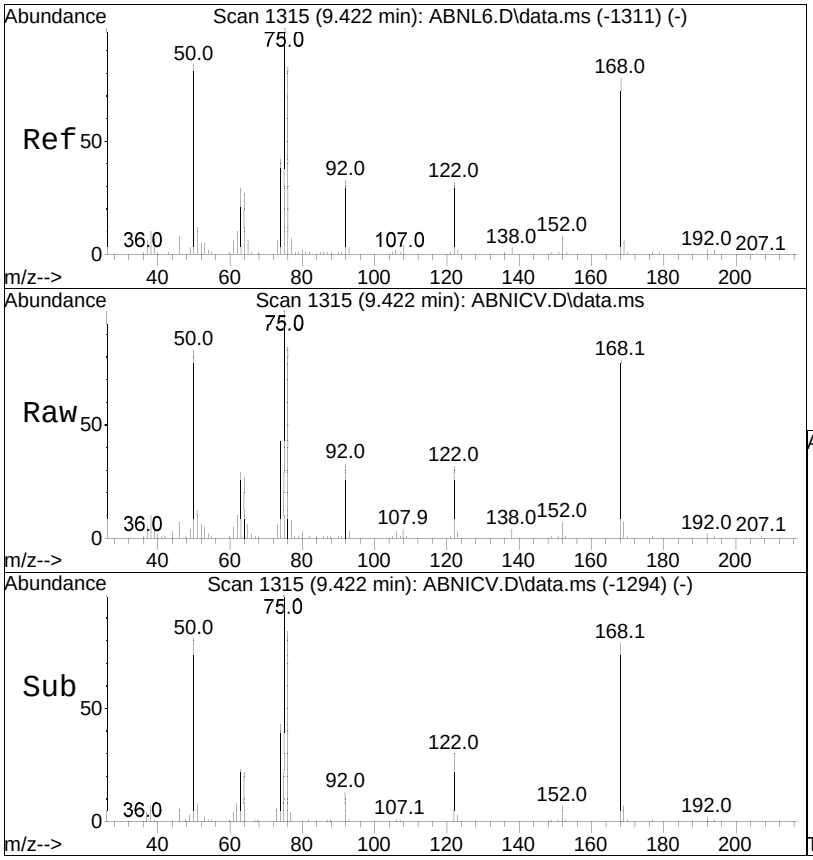


#47
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39012

Ion	Ratio	Lower	Upper
138	100		
92	64.9	53.5	80.3
65	96.8	86.3	129.5

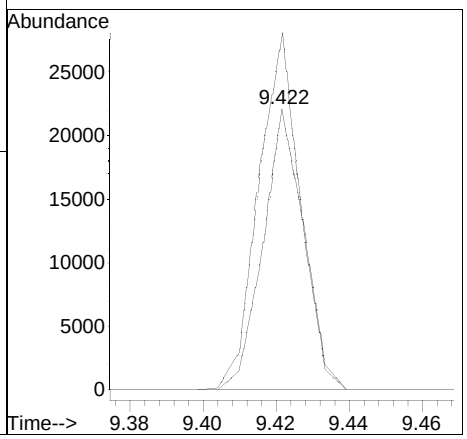


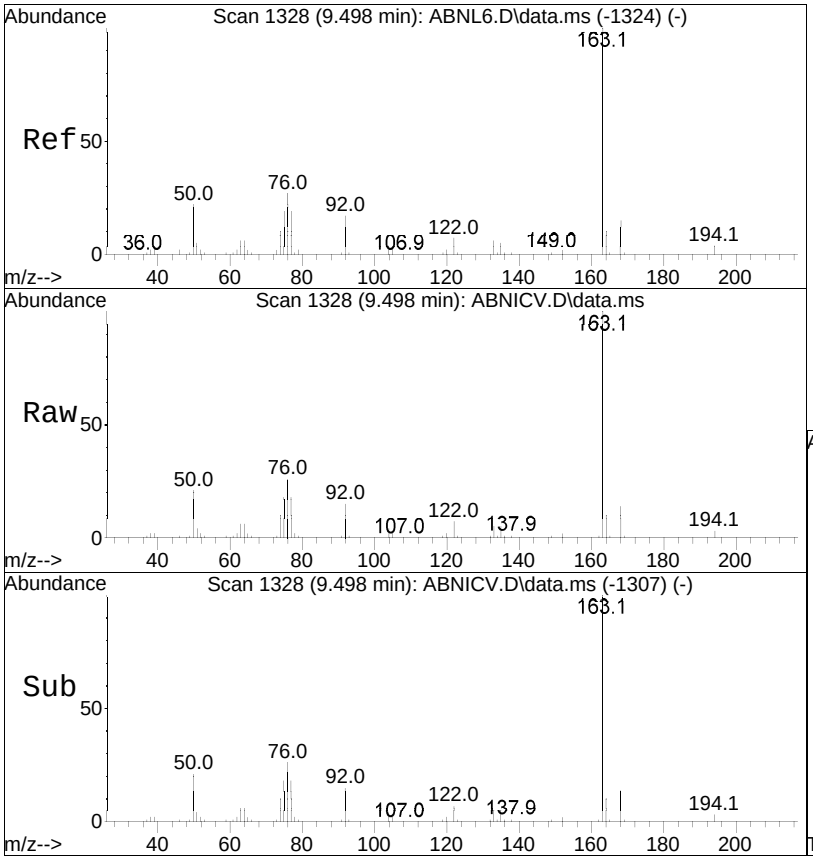


#48
1,4-Dinitrobenzene
Concen: 4.37 ug/ml
RT: 9.422 min Scan# 1315
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 17114

Ion	Ratio	Lower	Upper
168	100		
75	129.1	121.8	182.8

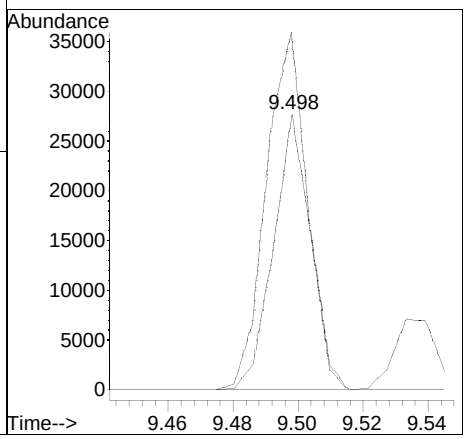


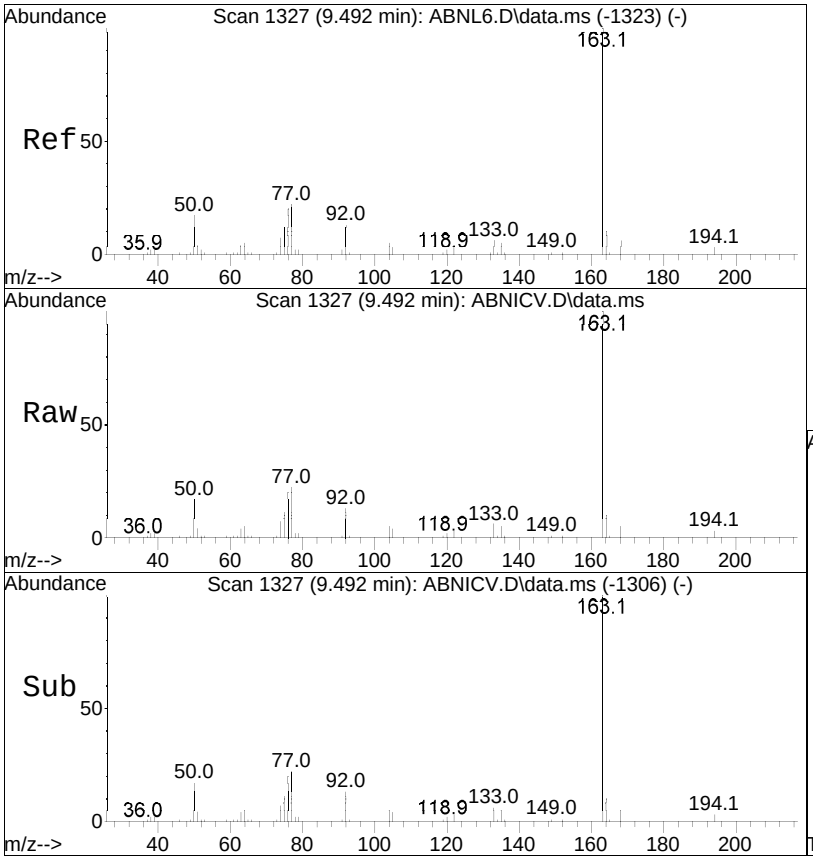


#49
1,3-Dinitrobenzene
Concen: 4.48 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 21913

Ion	Ratio	Lower	Upper
168	100		
75	142.2	22.7	34.1#

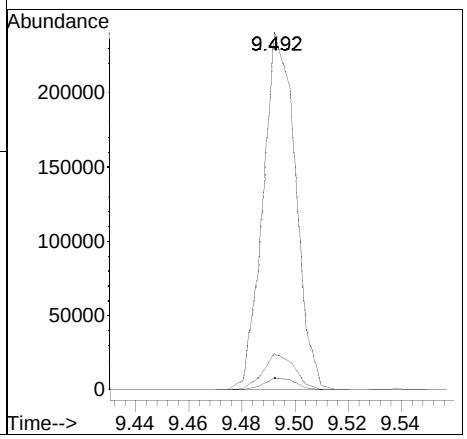


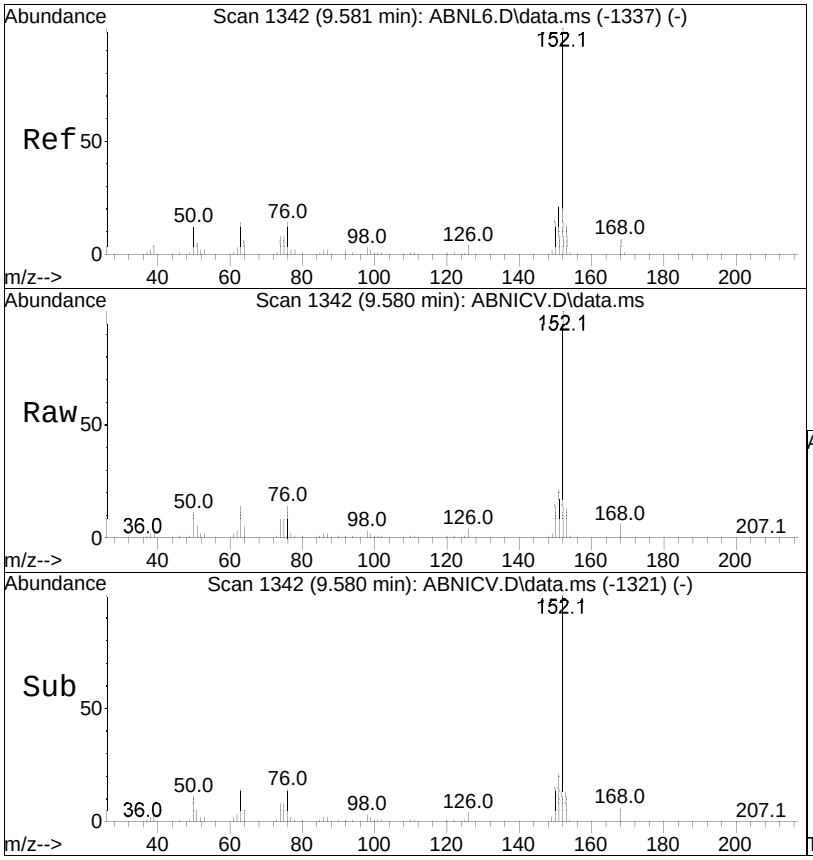


#50
Dimethyl phthalate
Concen: 5.37 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:163 Resp: 202629

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

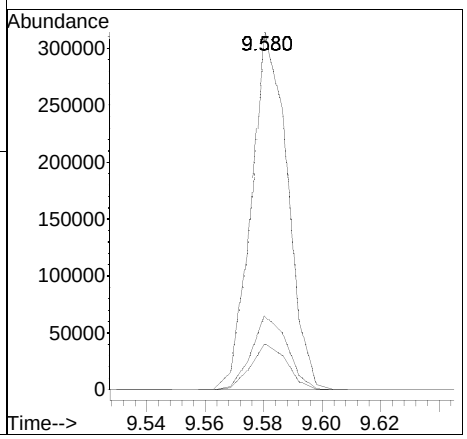


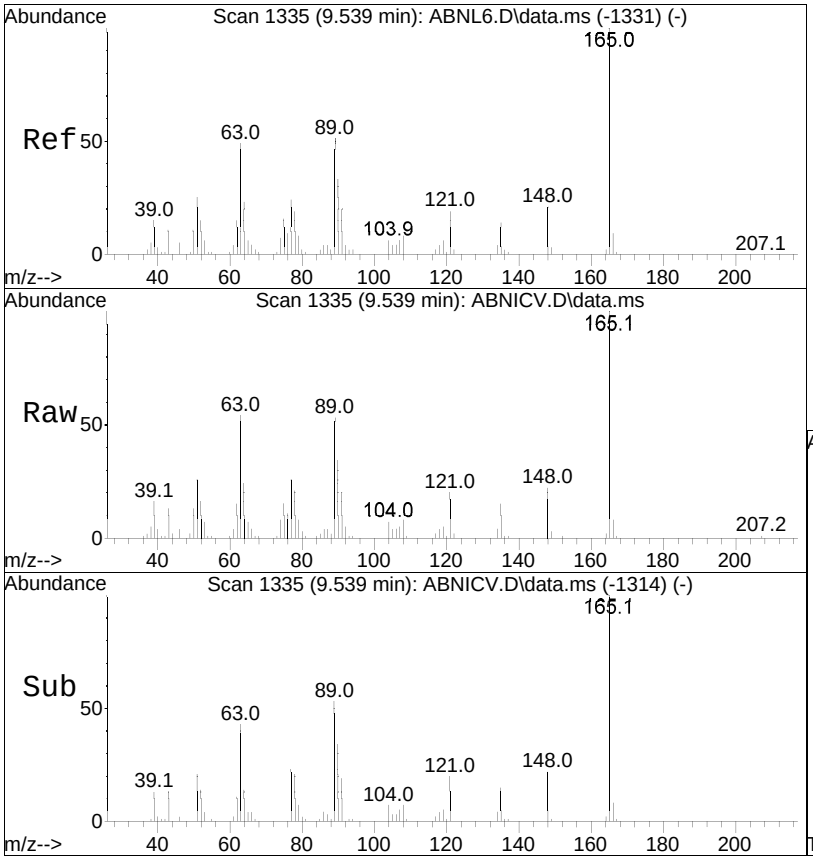


#51
Acenaphthylene
Concen: 5.51 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:152 Resp: 267479

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	12.9	10.5	15.7

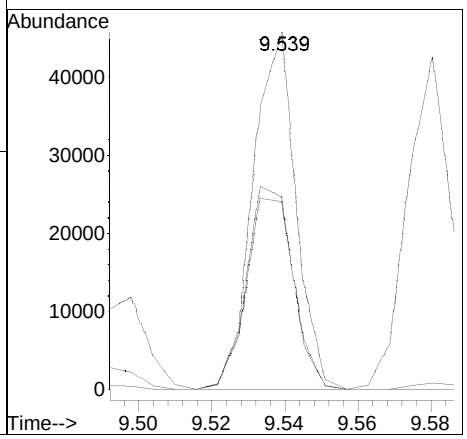


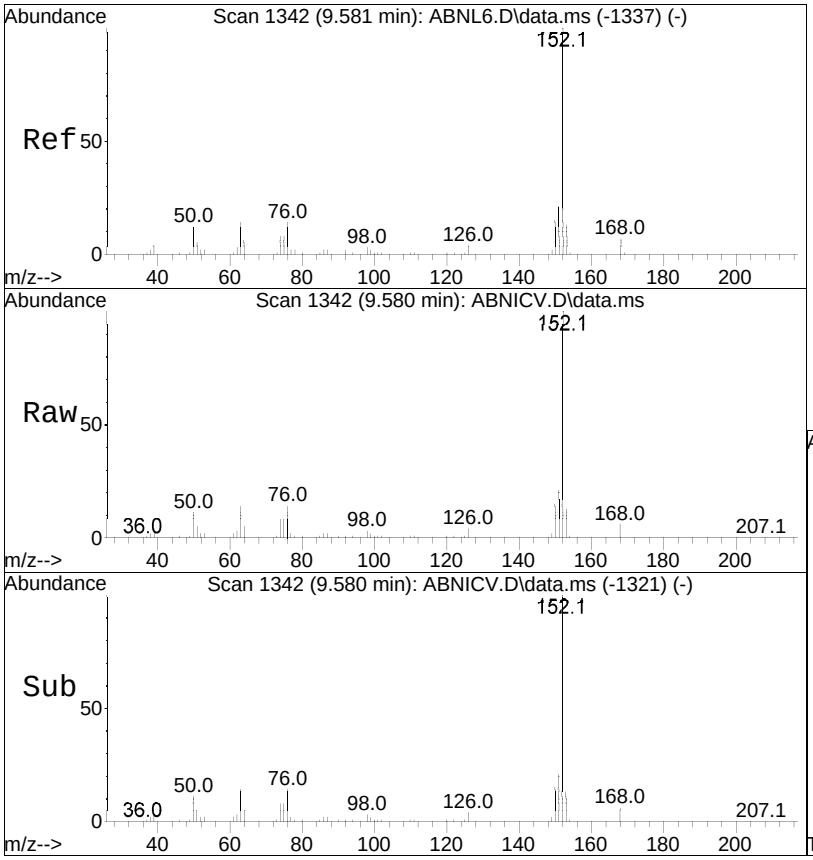


#52
2,6-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 37241

Ion	Ratio	Lower	Upper
165	100		
89	59.7	54.2	81.2
63	61.7	64.2	96.2#

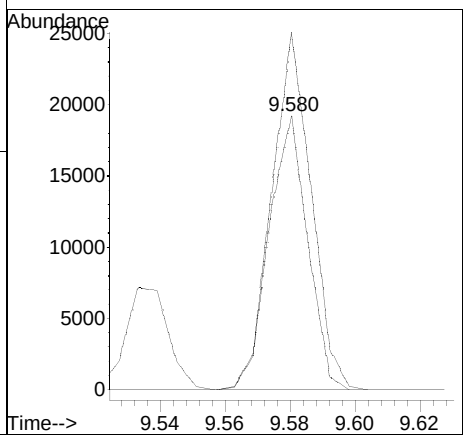


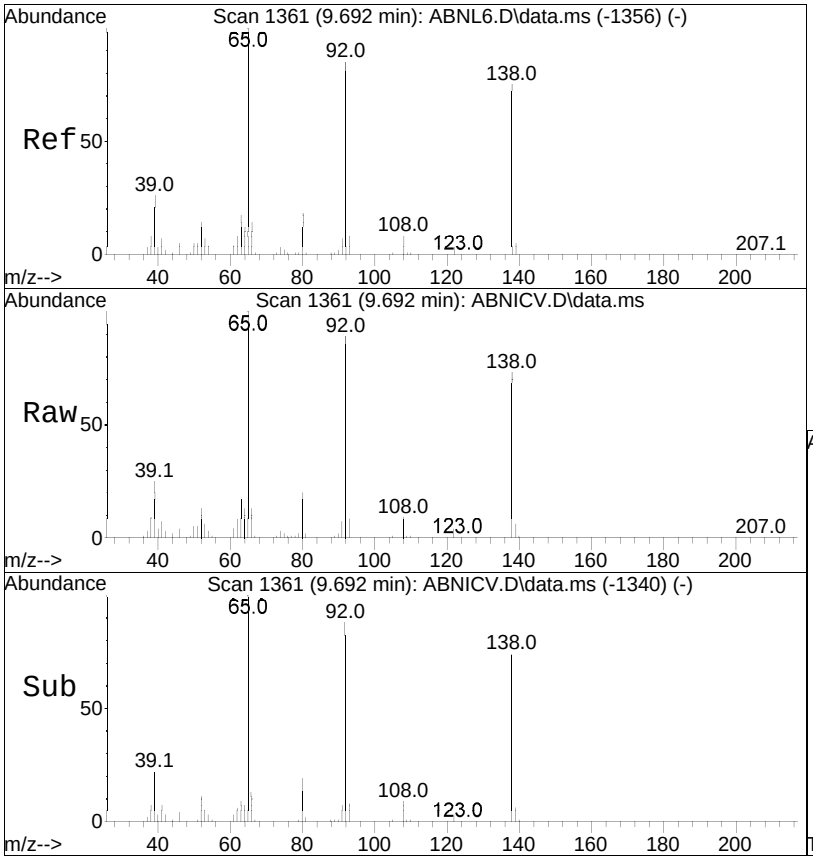


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 15743

Ion	Ratio	Lower	Upper
168	100		
75	133.3	30.9	46.3#

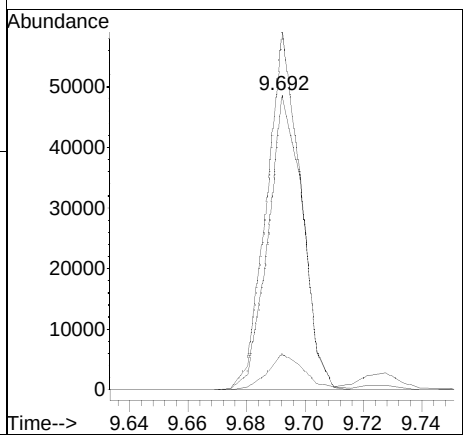


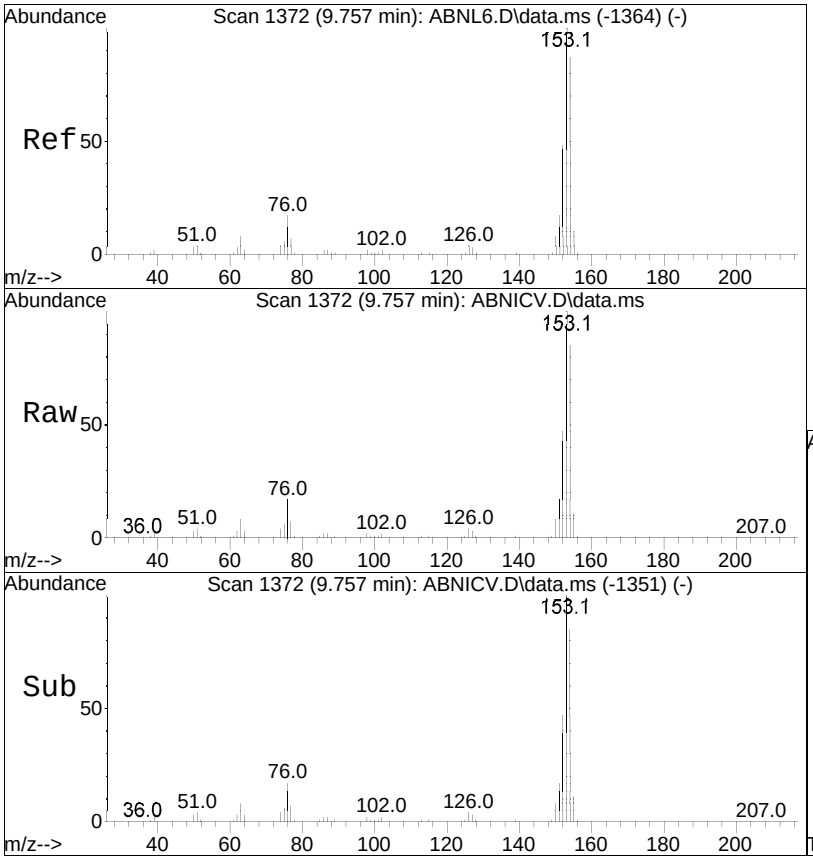


#63
3-Nitroaniline
Concen: 5.53 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39753

Ion	Ratio	Lower	Upper
138	100		
92	118.5	93.4	140.2
108	12.8	9.5	14.3

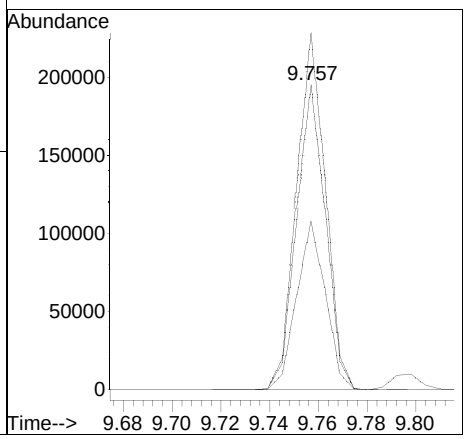


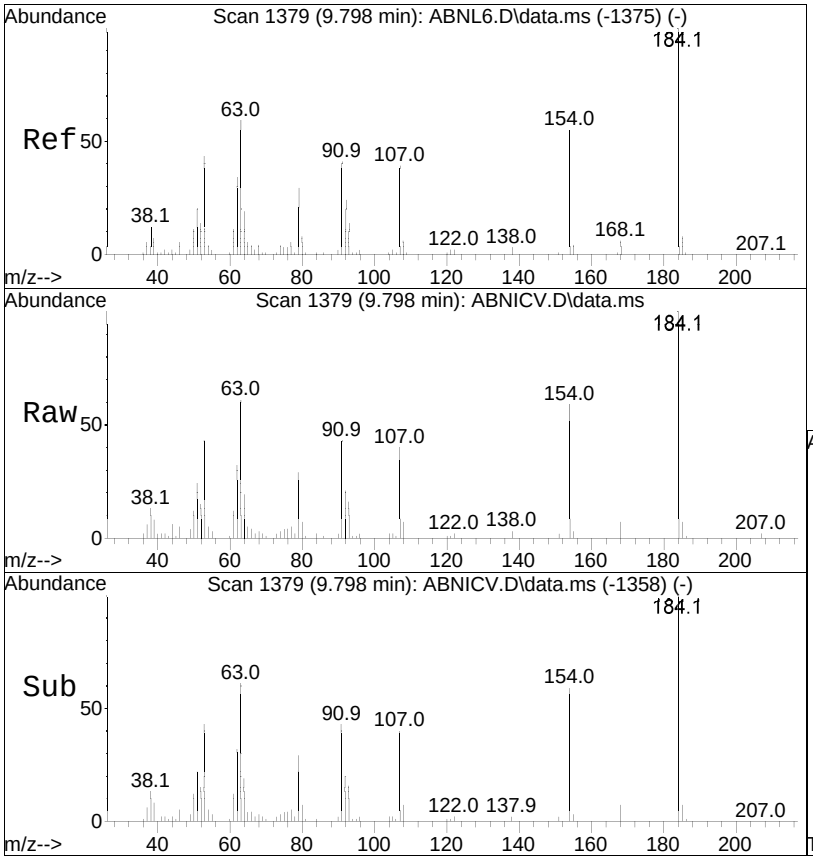


#64
Acenaphthene
Concen: 5.38 ug/ml
RT: 9.757 min Scan# 1372
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:154 Resp: 161236

Ion	Ratio	Lower	Upper
154	100		
153	116.6	85.3	127.9
152	55.3	41.4	62.0

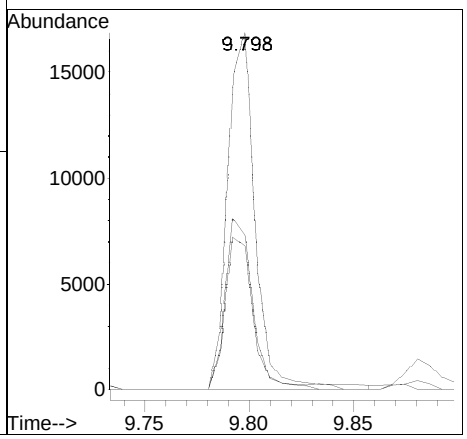


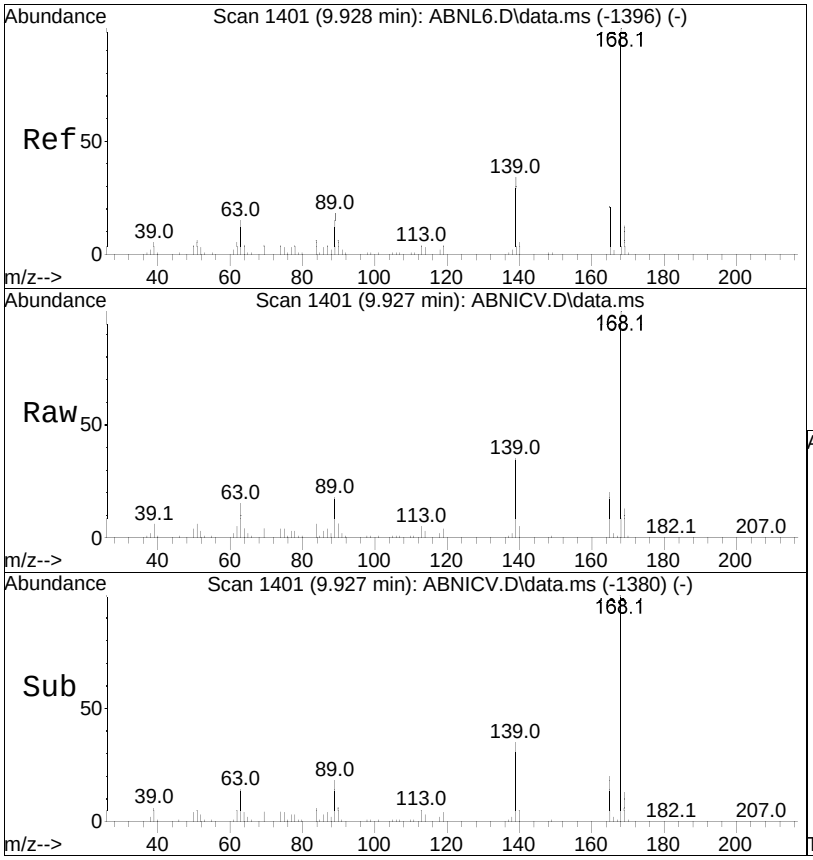


#65
2,4-Dinitrophenol
Concen: 4.21 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 15506

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	48.6	46.3	69.5

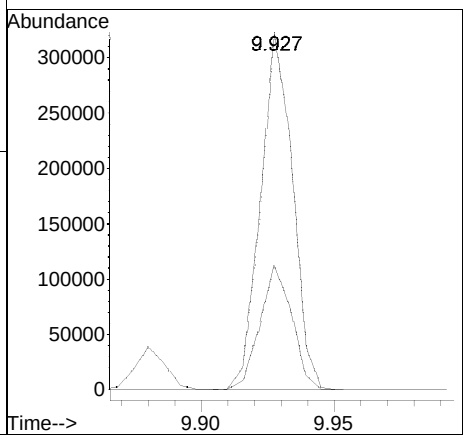


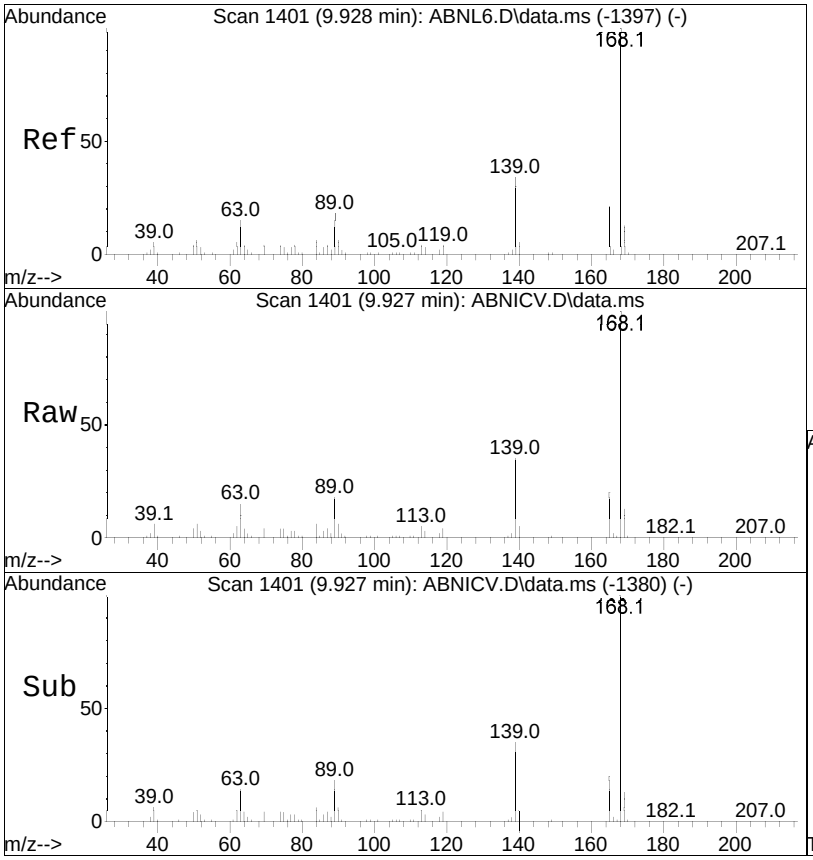


#66
Dibenzofuran
Concen: 5.47 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 266500

Ion	Ratio	Lower	Upper
168	100		
139	35.1	31.4	47.2

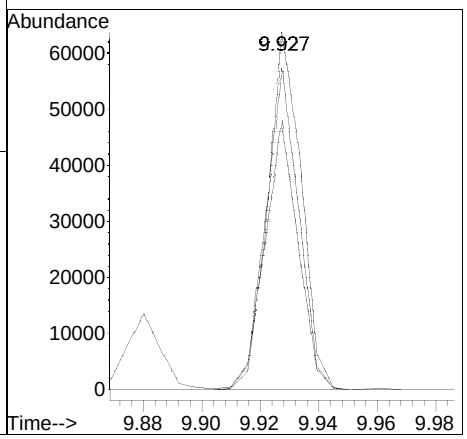


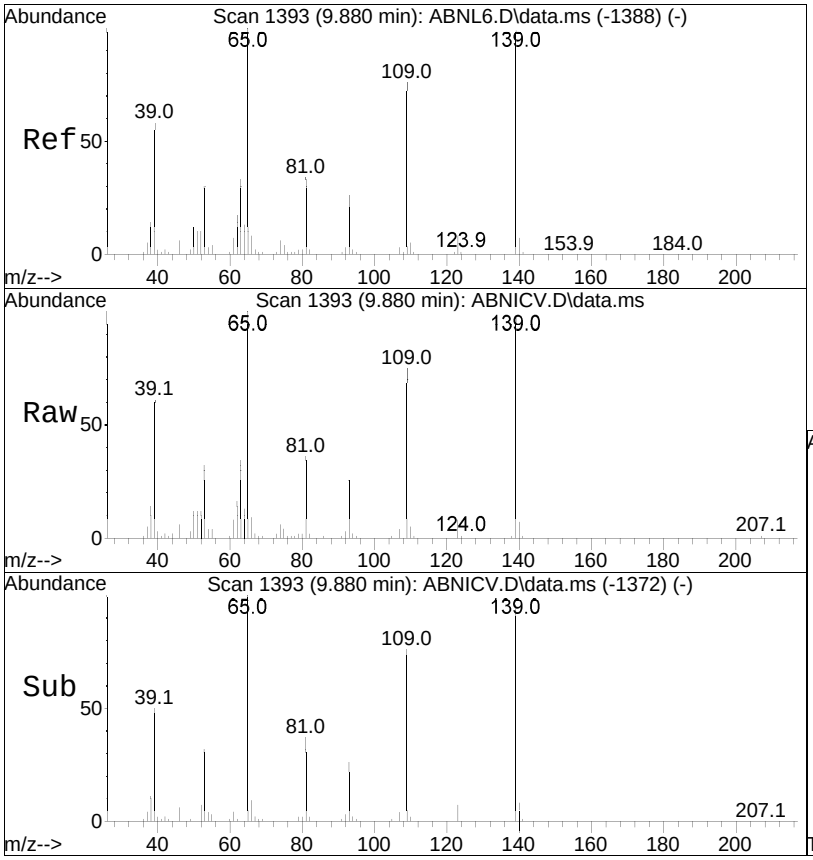


#67
2,4-Dinitrotoluene
Concen: 4.70 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 50041

Ion	Ratio	Lower	Upper
165	100		
89	88.8	72.0	108.0
63	75.3	52.7	79.1

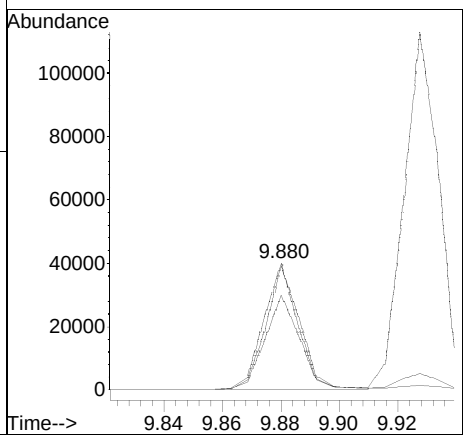


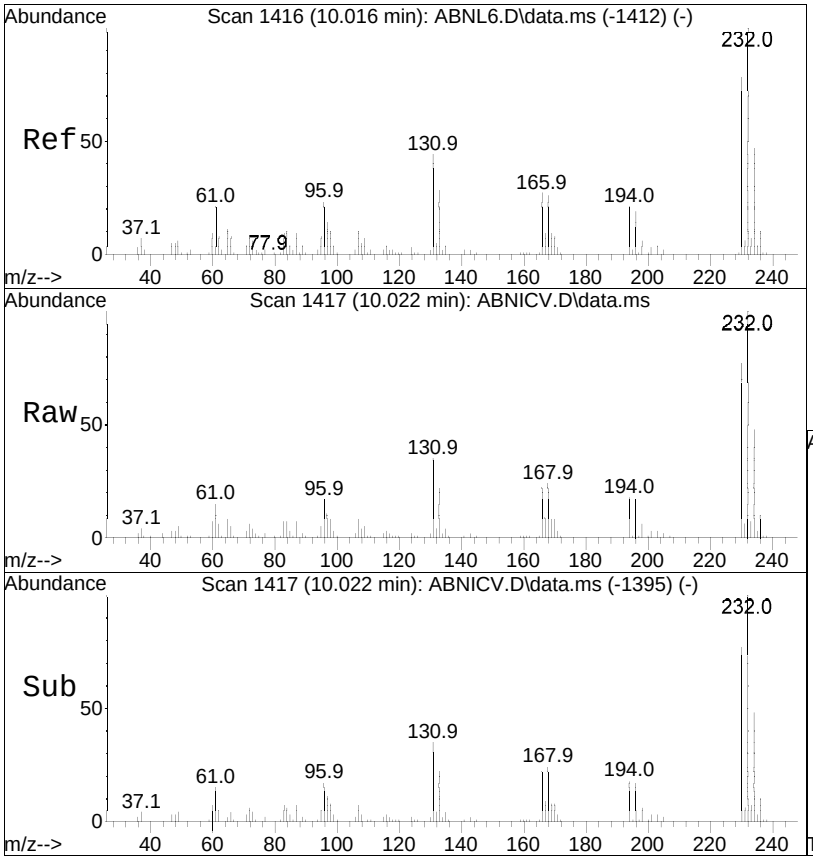


#68
4-Nitrophenol
Concen: 5.24 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 32159

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	97.3	76.6	115.0

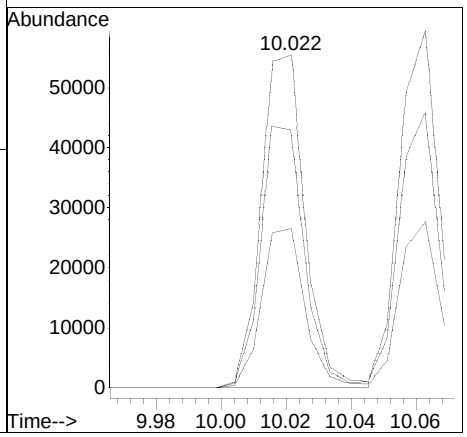


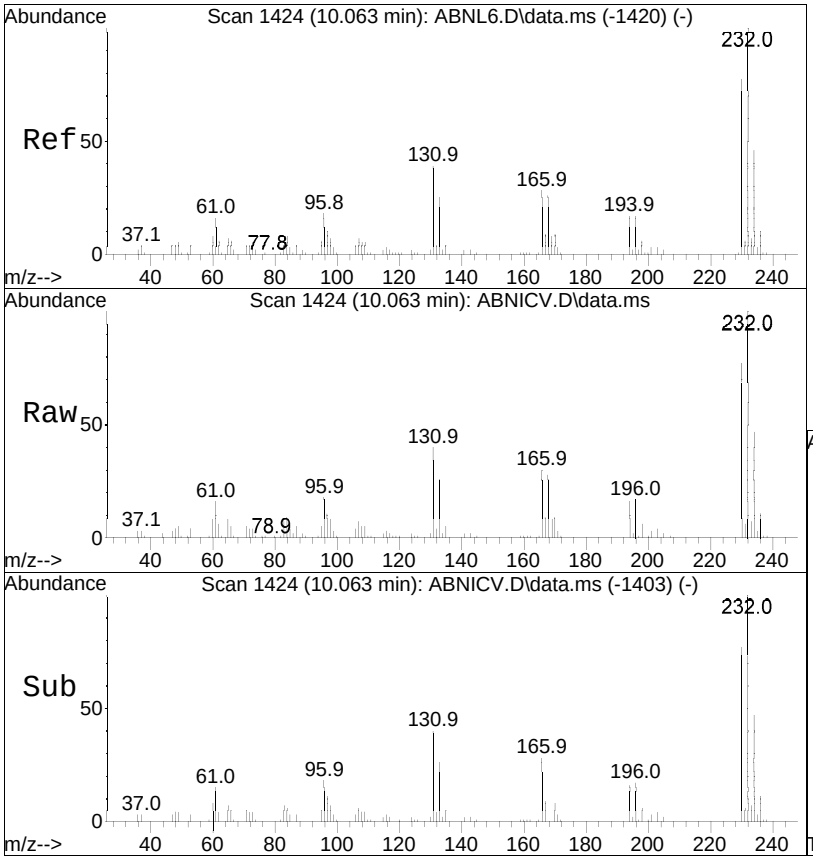


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.94 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 52335

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.5	38.1	57.1

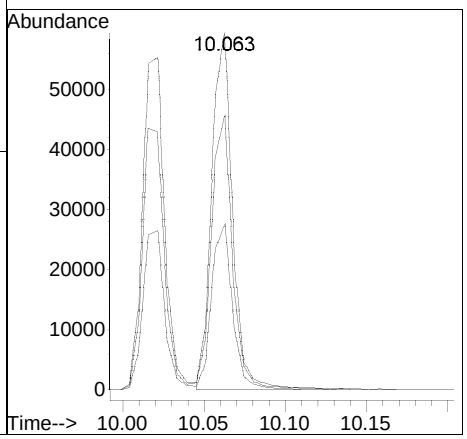


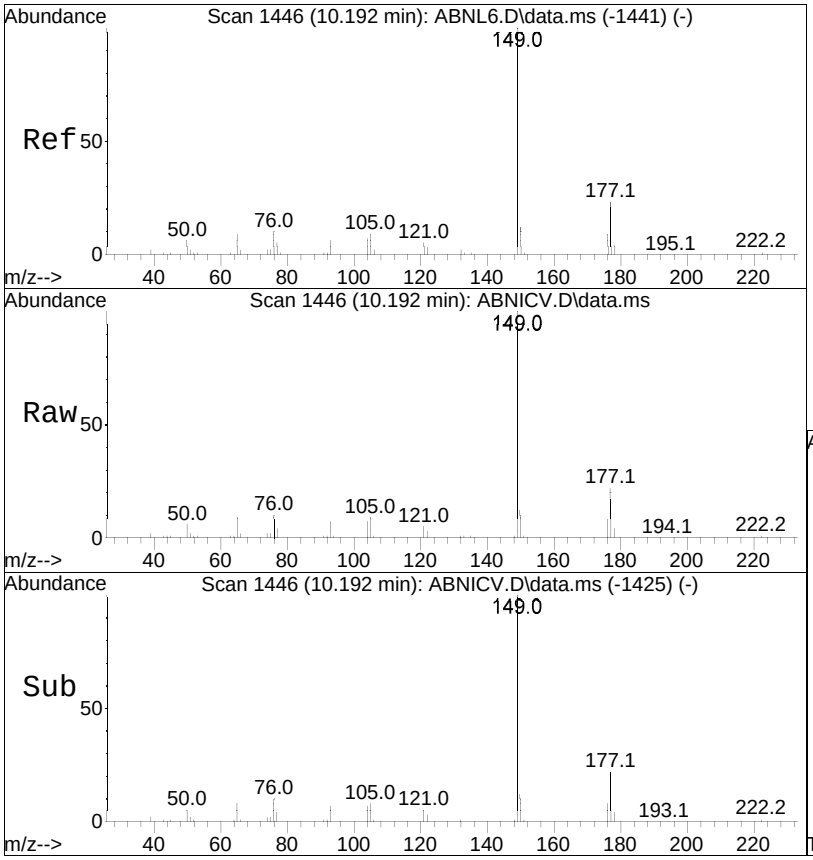


#70
2,3,4,6-Tetrachlorophenol
Concen: 6.15 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 53523

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	46.4	36.2	54.2

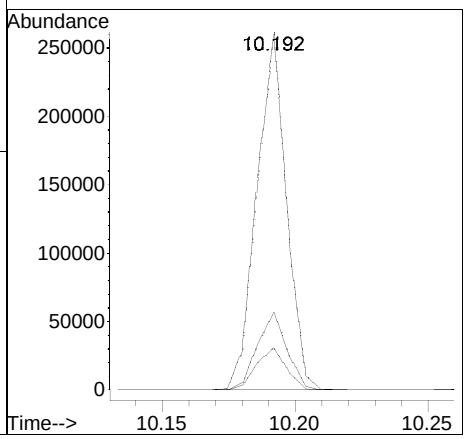


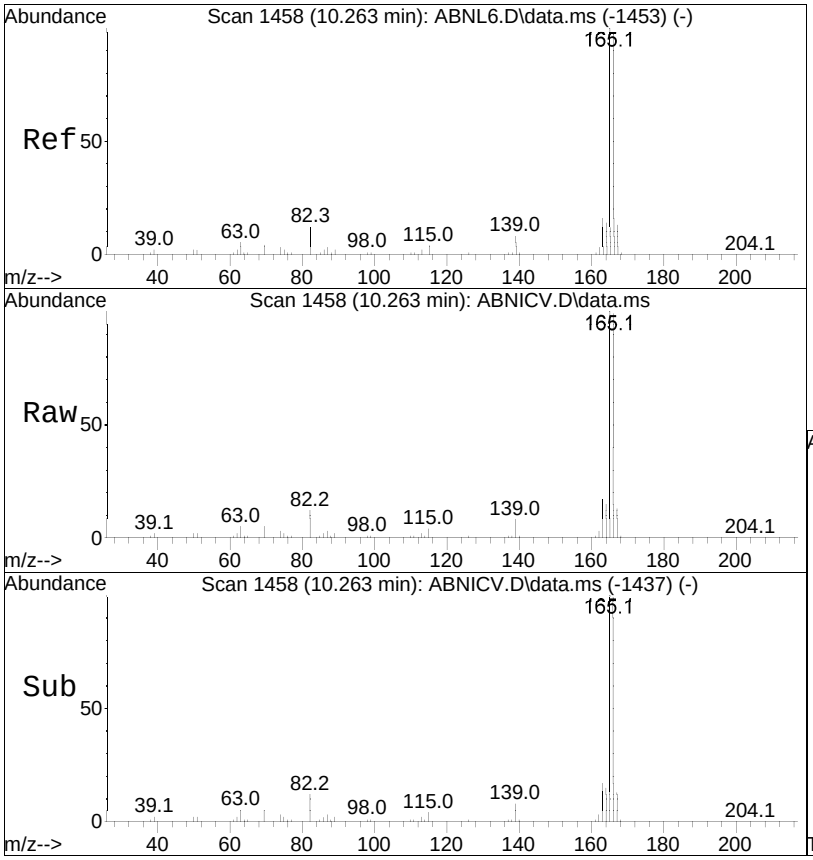


#71
Diethyl phthalate
Concen: 5.50 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 198362

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.1	9.4	14.2

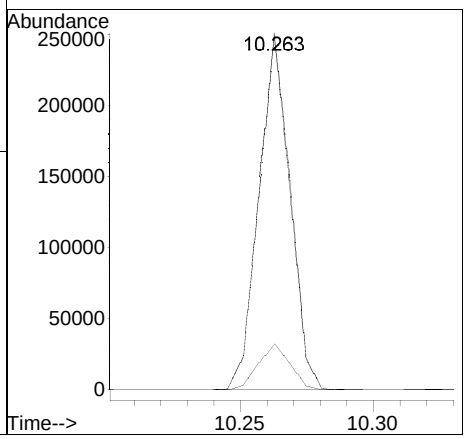


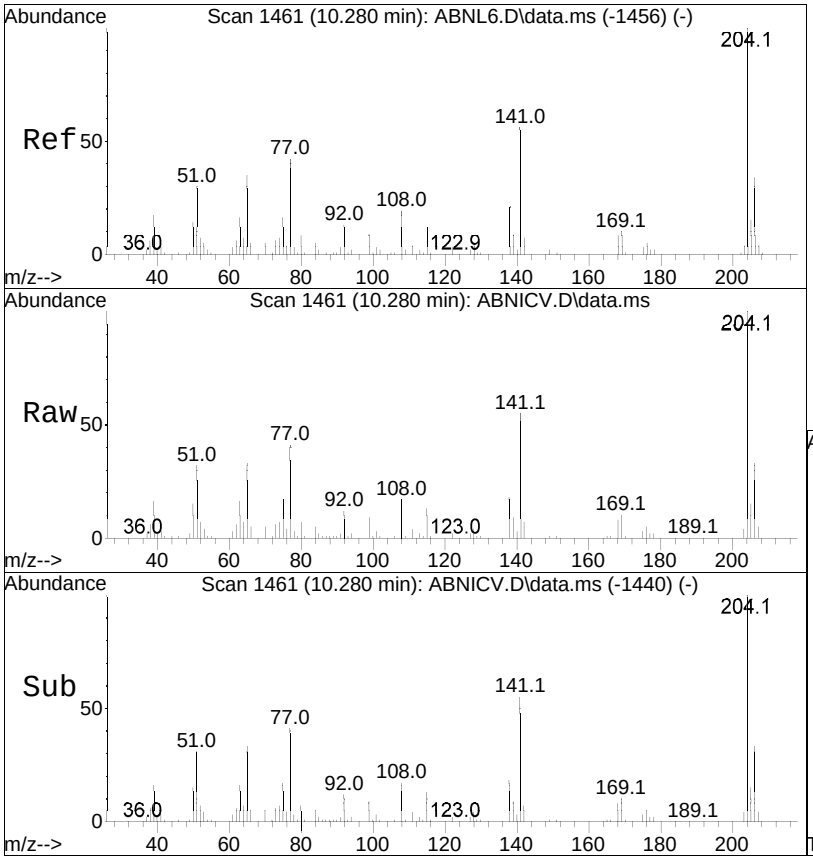


#72
Fluorene
Concen: 5.47 ug/ml
RT: 10.263 min Scan# 1458
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:166 Resp: 201378

Ion	Ratio	Lower	Upper
166	100		
165	102.2	76.2	114.2
167	13.7	10.6	15.8

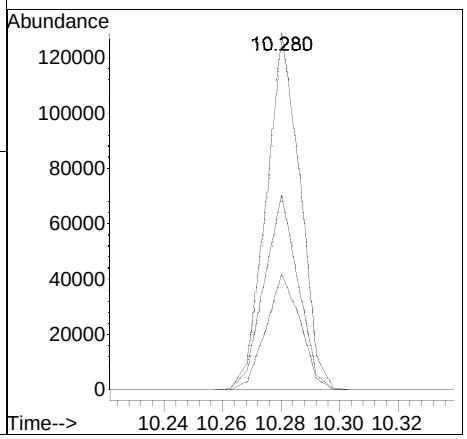


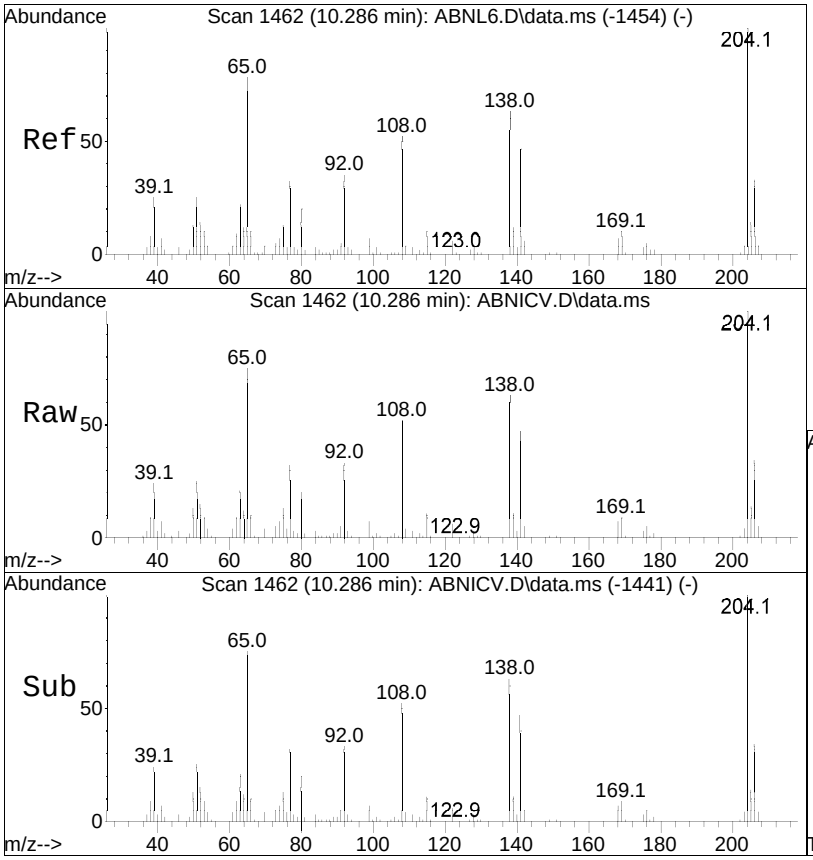


#73
4-Chlorophenyl phenyl ether
Concen: 5.52 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:204 Resp: 102835

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	54.9	53.6	80.4

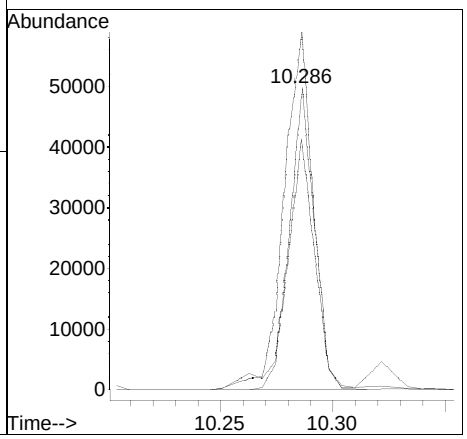


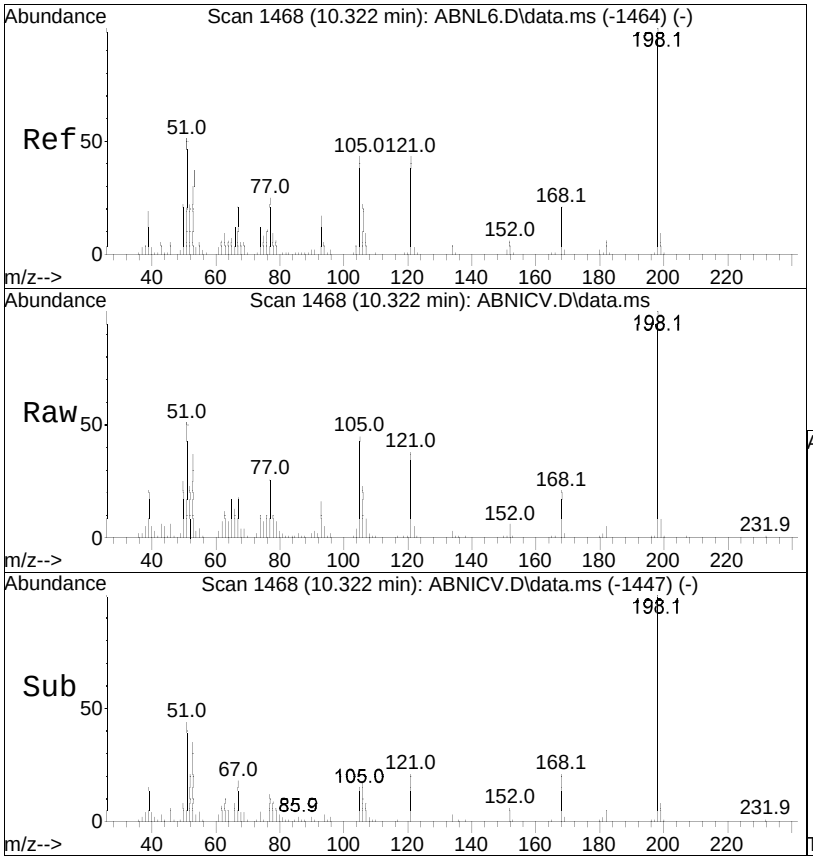


#74
4-Nitroaniline
Concen: 5.57 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 40513

Ion	Ratio	Lower	Upper
138	100		
108	82.3	52.1	78.1#
65	129.8	115.0	172.6

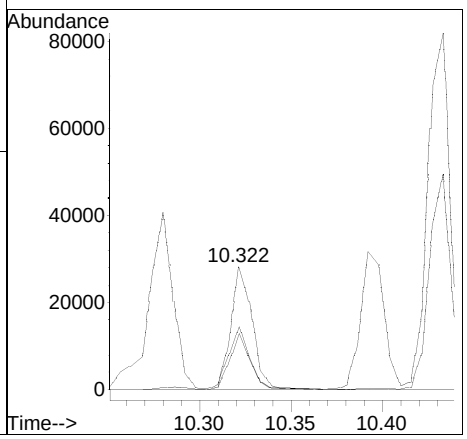


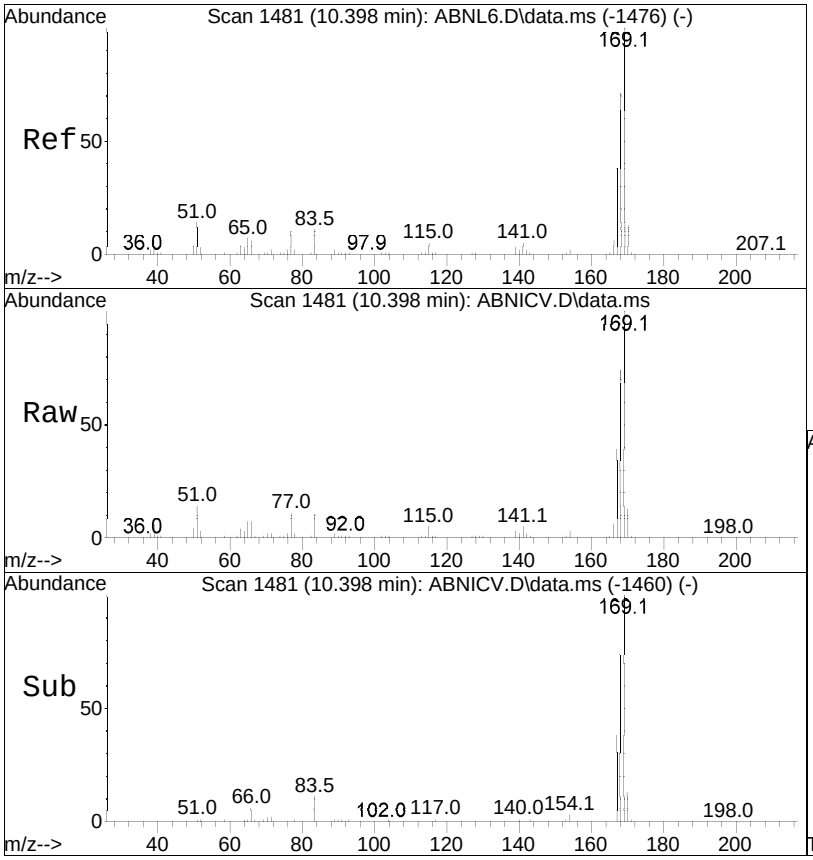


#75
4,6-Dinitro-o-cresol
Concen: 4.23 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:198 Resp: 23532

Ion	Ratio	Lower	Upper
198	100		
51	48.4	76.0	114.0#
105	43.6	45.6	68.4#

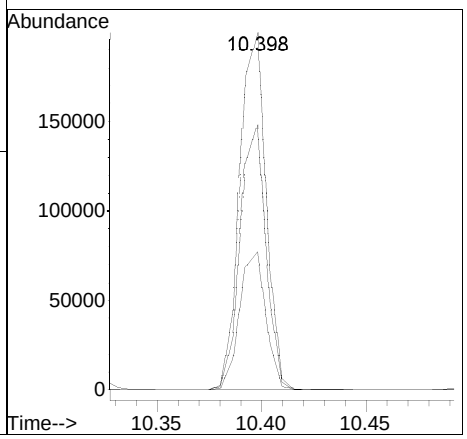


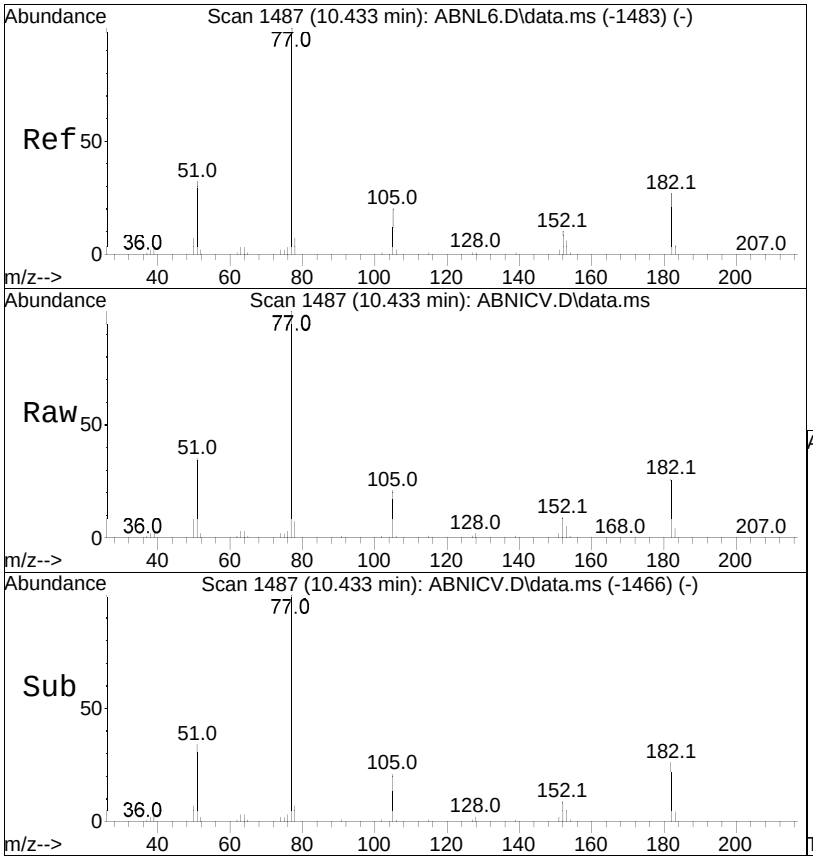


#76
NDPA/DPA
Concen: 5.59 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:169 Resp: 175362

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	38.7	28.6	42.8

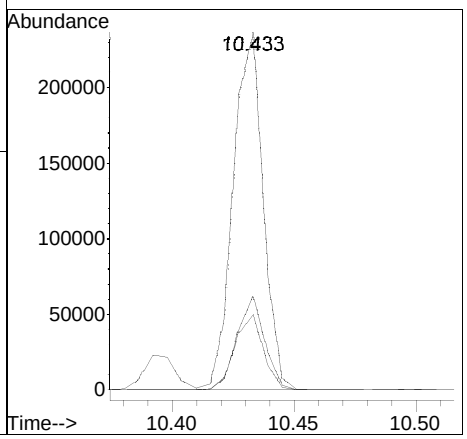


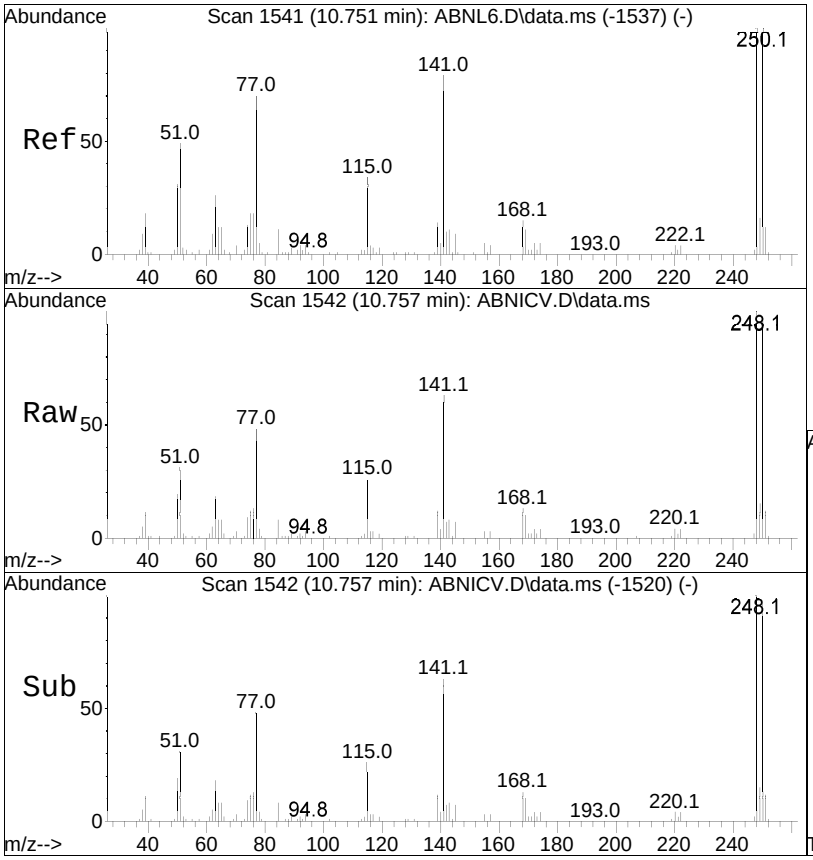


#77
Azobenzene
Concen: 5.72 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 199756

Ion	Ratio	Lower	Upper
77	100		
182	24.5	17.4	26.2
105	20.3	15.4	23.2

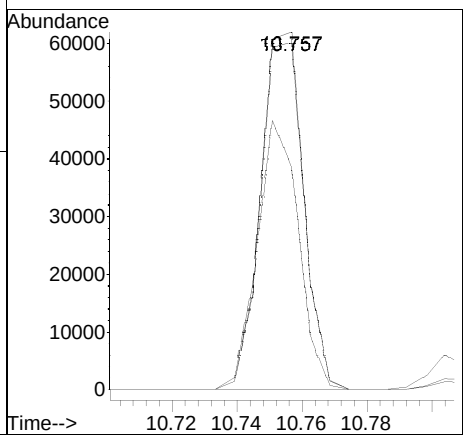


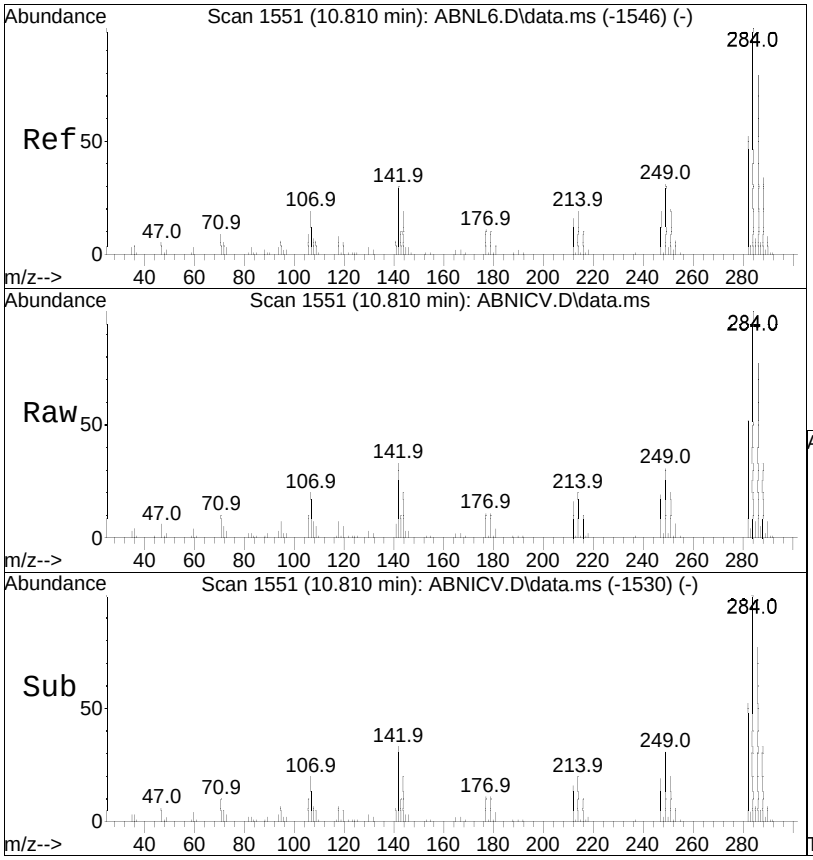


#79
4-Bromophenyl phenyl ether
Concen: 5.43 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:248 Resp: 56638

Ion	Ratio	Lower	Upper
248	100		
141	71.9	76.6	114.8#
250	97.4	77.3	115.9

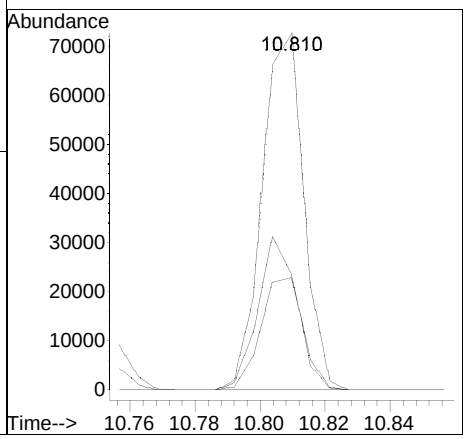


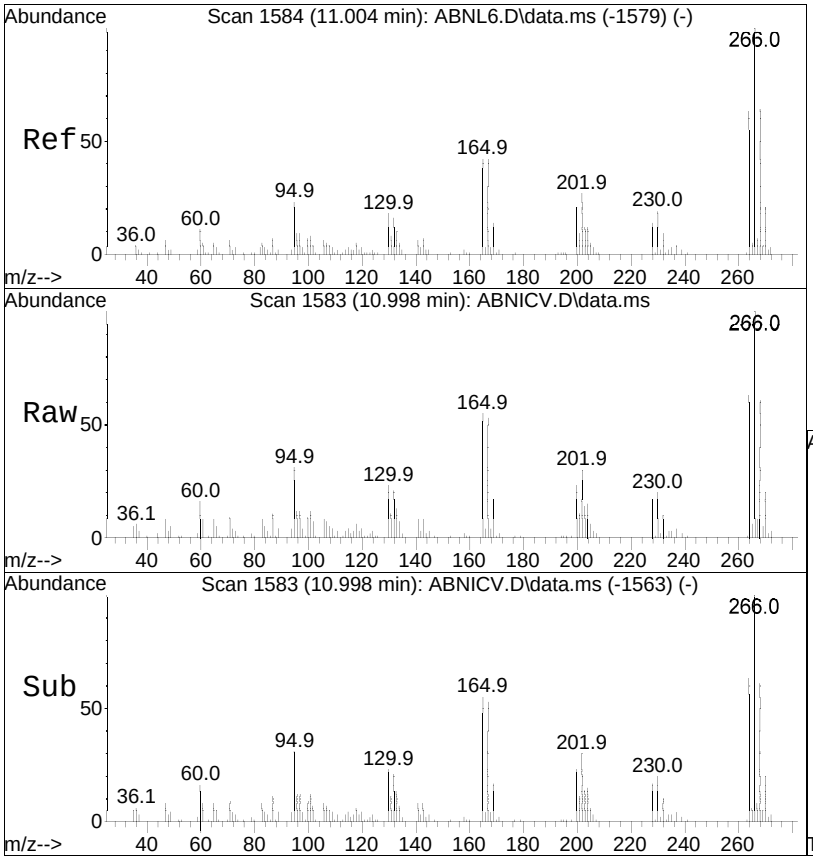


#80
Hexachlorobenzene
Concen: 5.39 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:284 Resp: 64431

Ion	Ratio	Lower	Upper
284	100		
142	40.3	41.9	62.9#
249	32.3	24.1	36.1

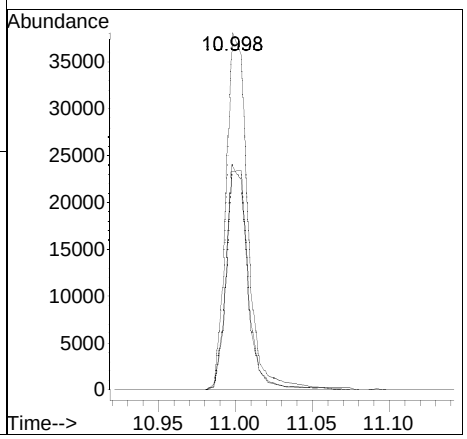


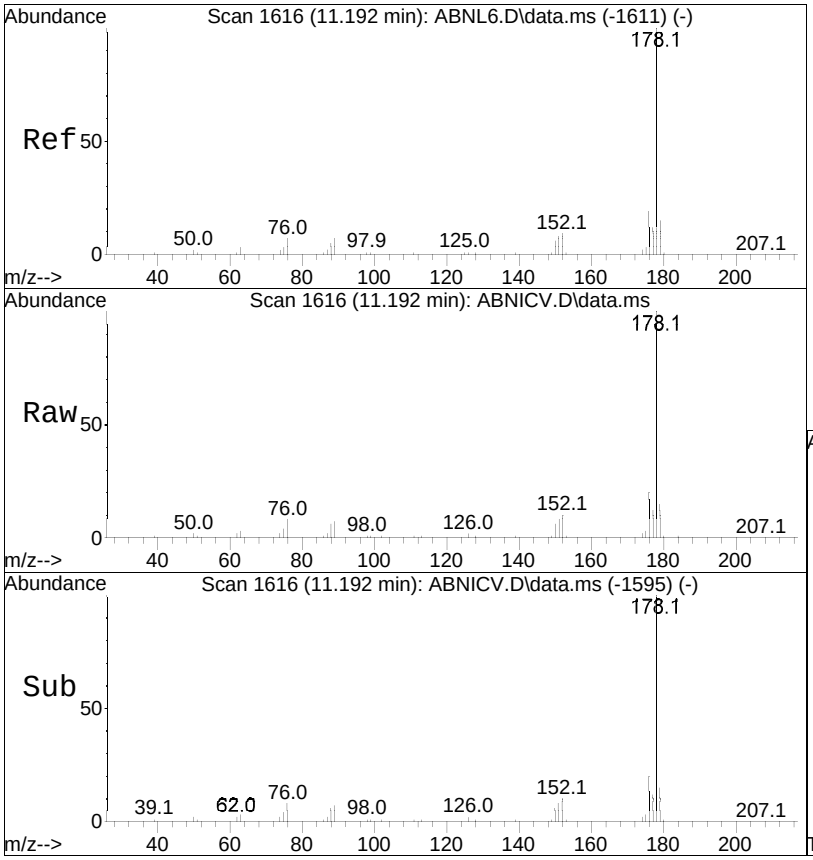


#81
Pentachlorophenol
Concen: 5.36 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:266 Resp: 37359

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.7	74.5
268	62.8	50.5	75.7

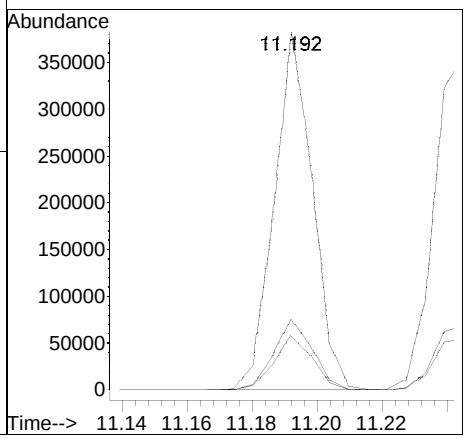


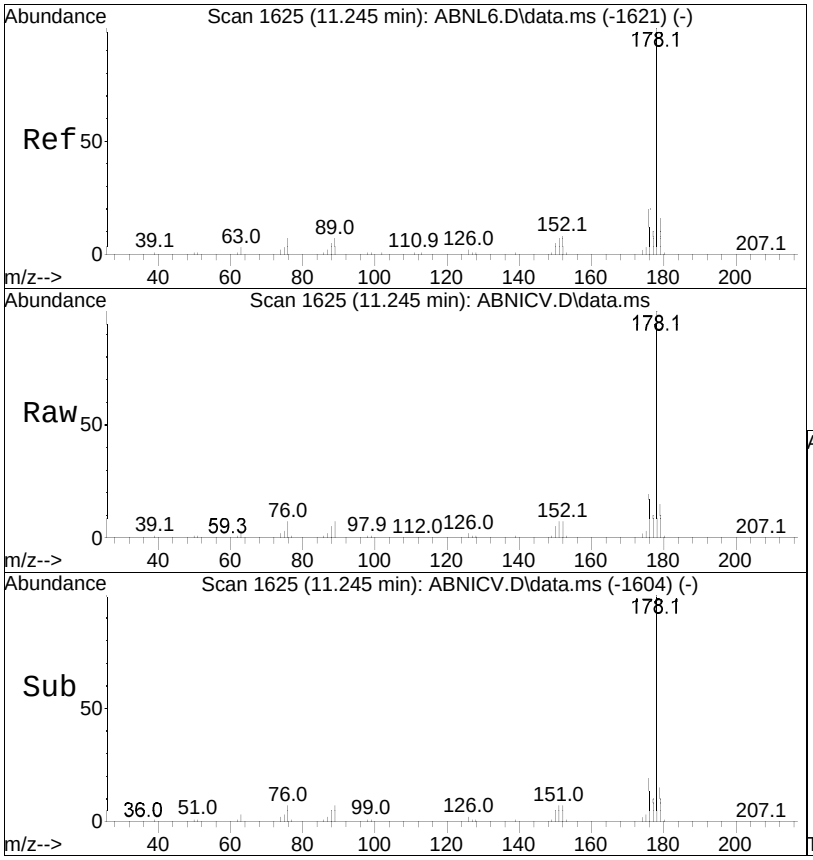


#88
Phenanthrene
Concen: 5.28 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 311941

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

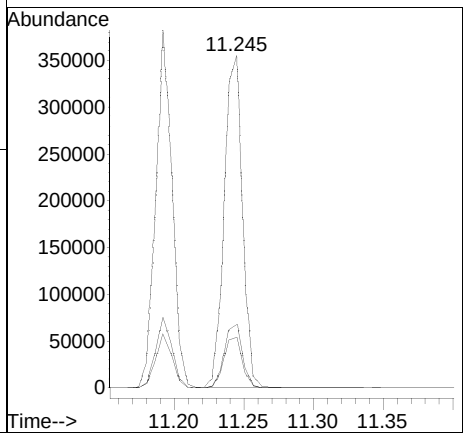


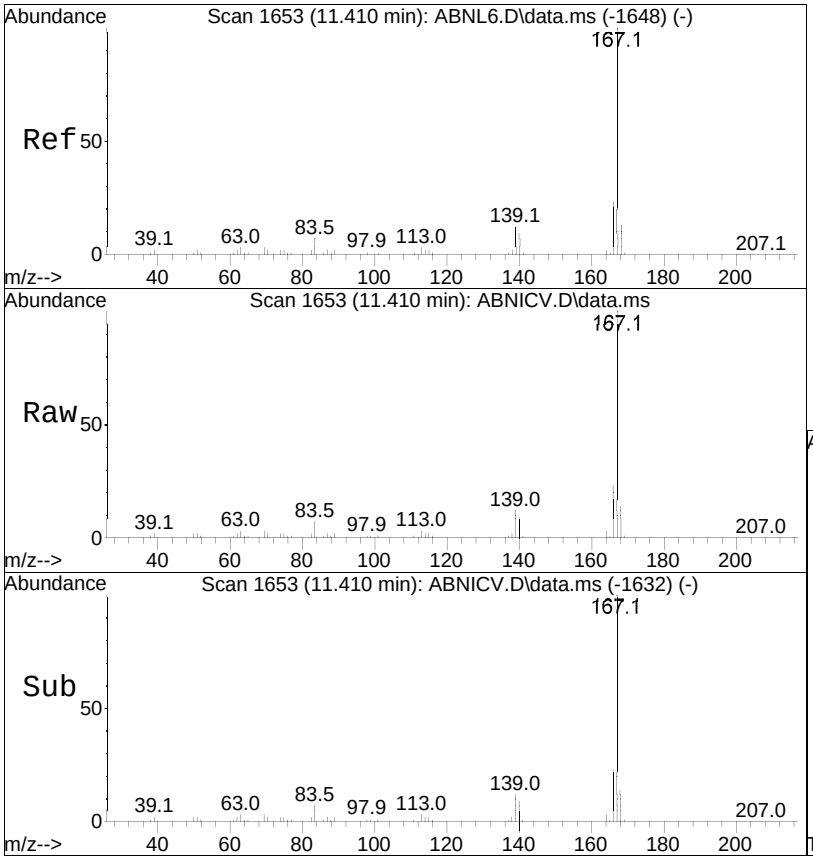


#89
Anthracene
Concen: 5.52 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 323617

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	19.2	14.6	22.0

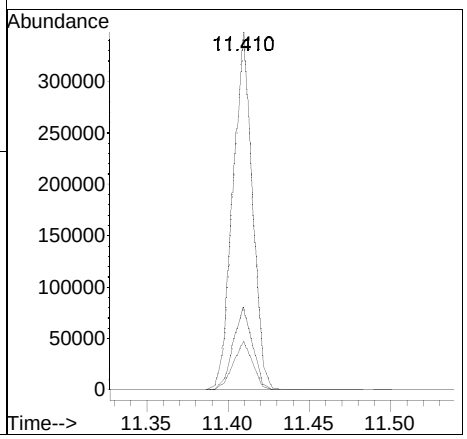


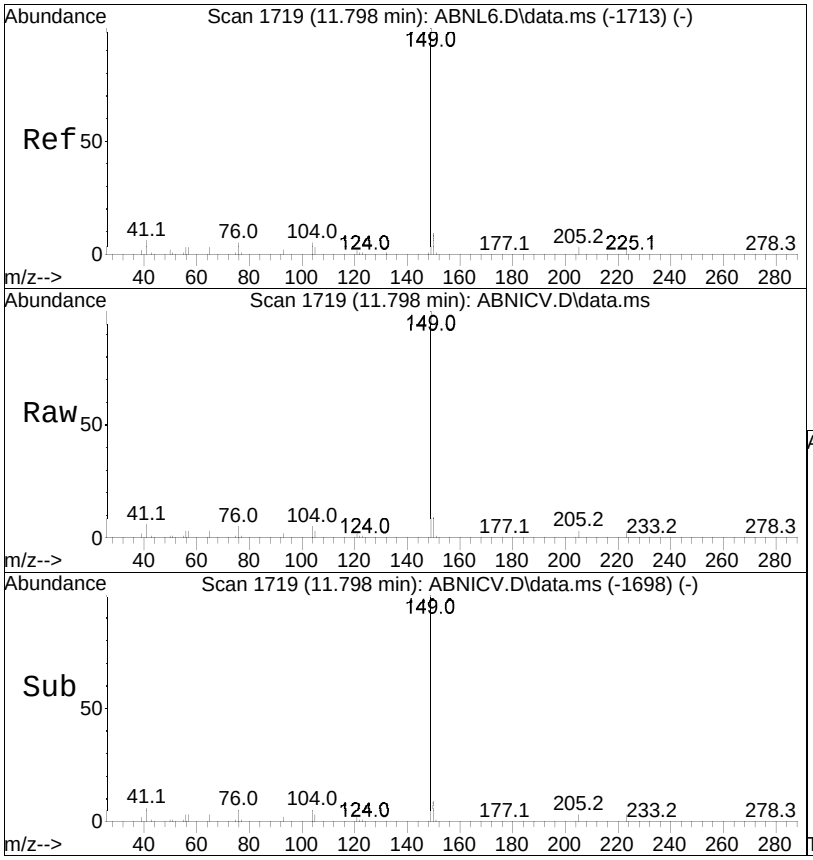


#90
Carbazole
Concen: 5.45 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:167 Resp: 287846

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.0	17.4	26.0

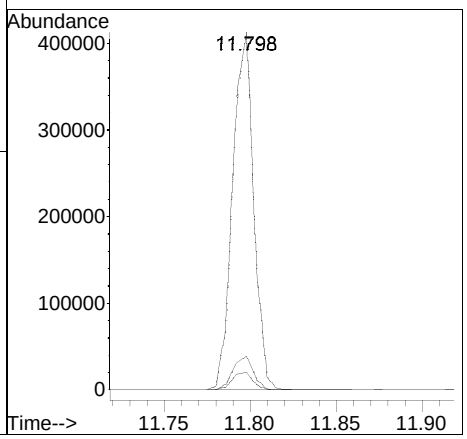


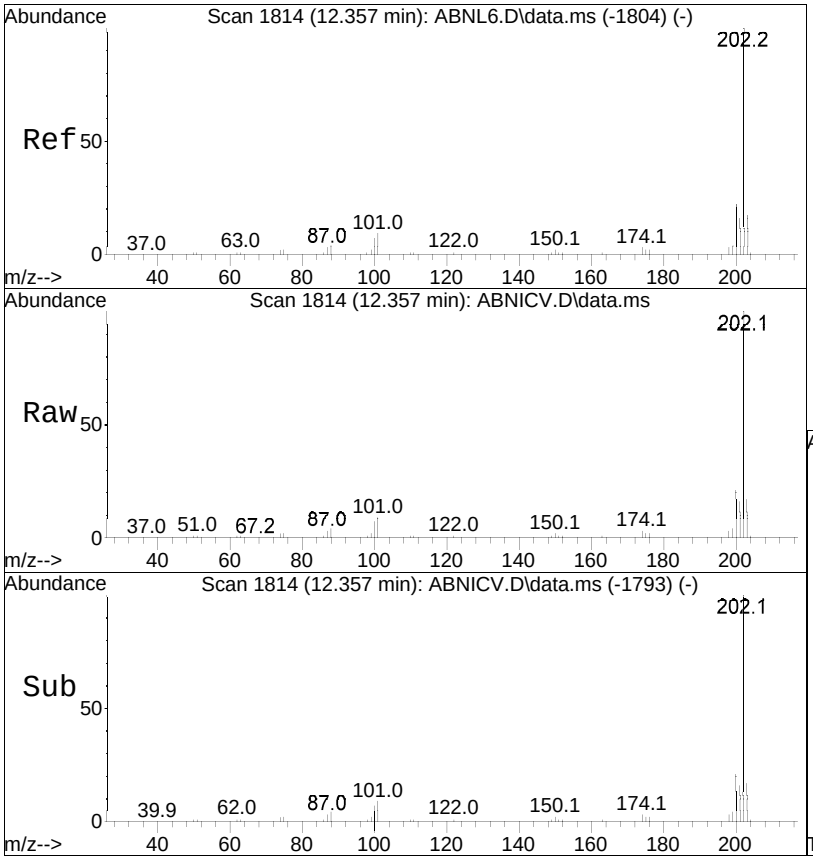


#91
Di-n-butylphthalate
Concen: 5.55 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 343566

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.0	4.5	6.7

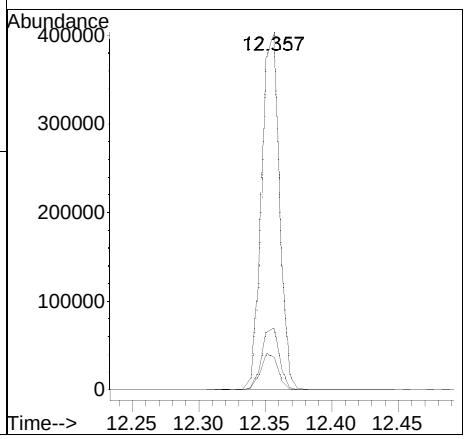


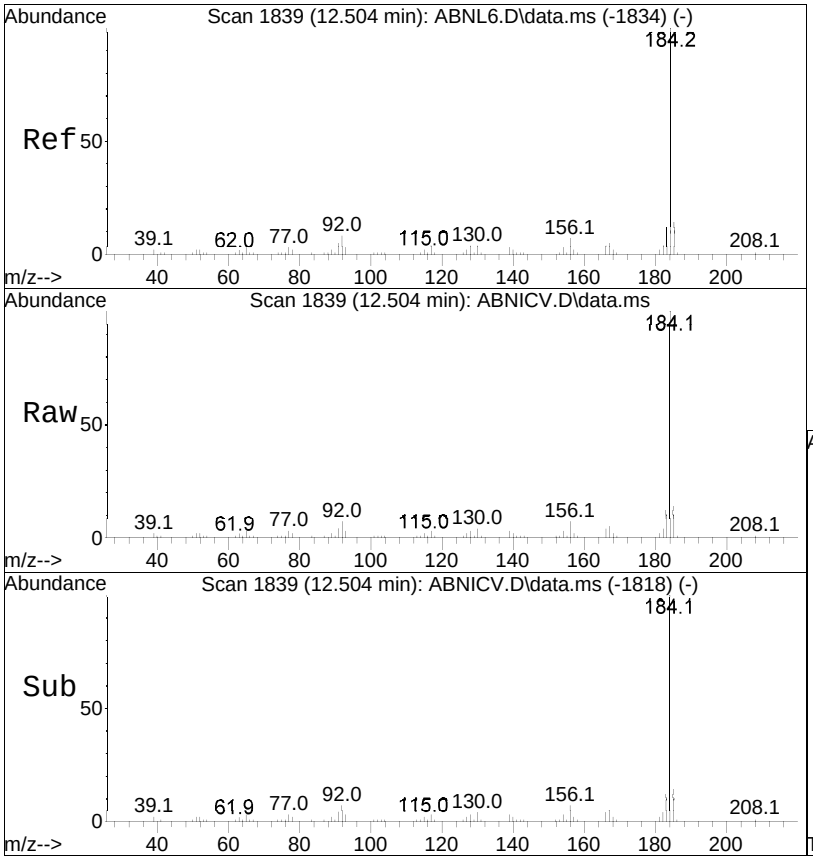


#92
Fluoranthene
Concen: 5.51 ug/ml
RT: 12.357 min Scan# 1814
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 371982

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.4	13.6	20.4

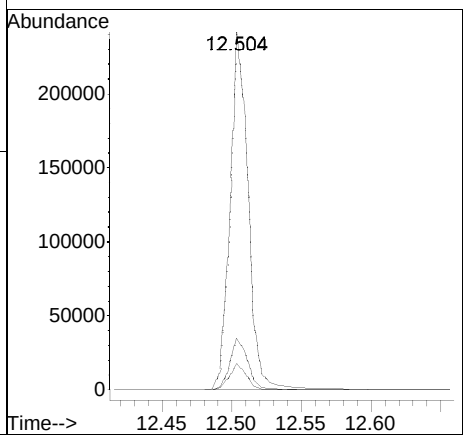


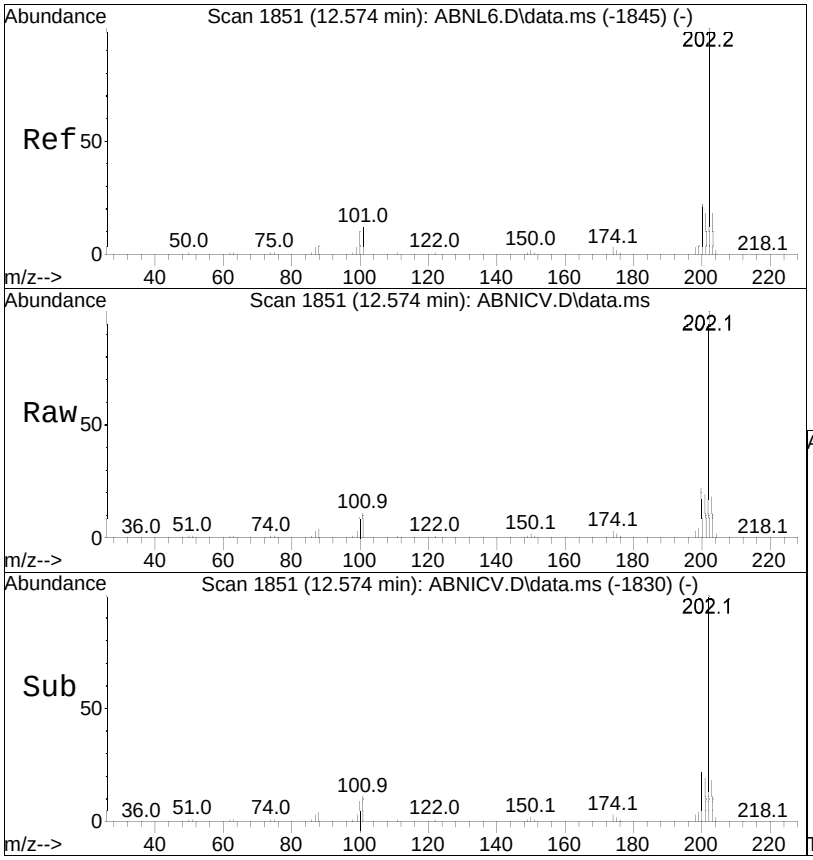


#93
Benzidine
Concen: 5.23 ug/ml
RT: 12.504 min Scan# 1839
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 214564

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	14.5	11.1	16.7

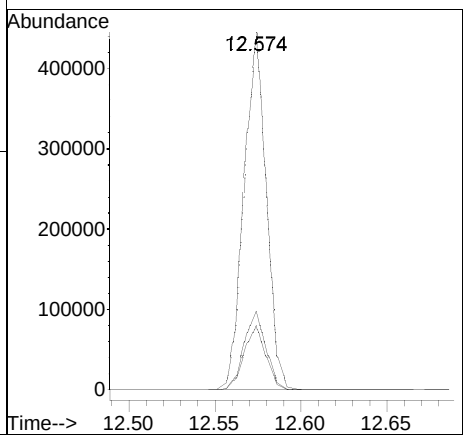


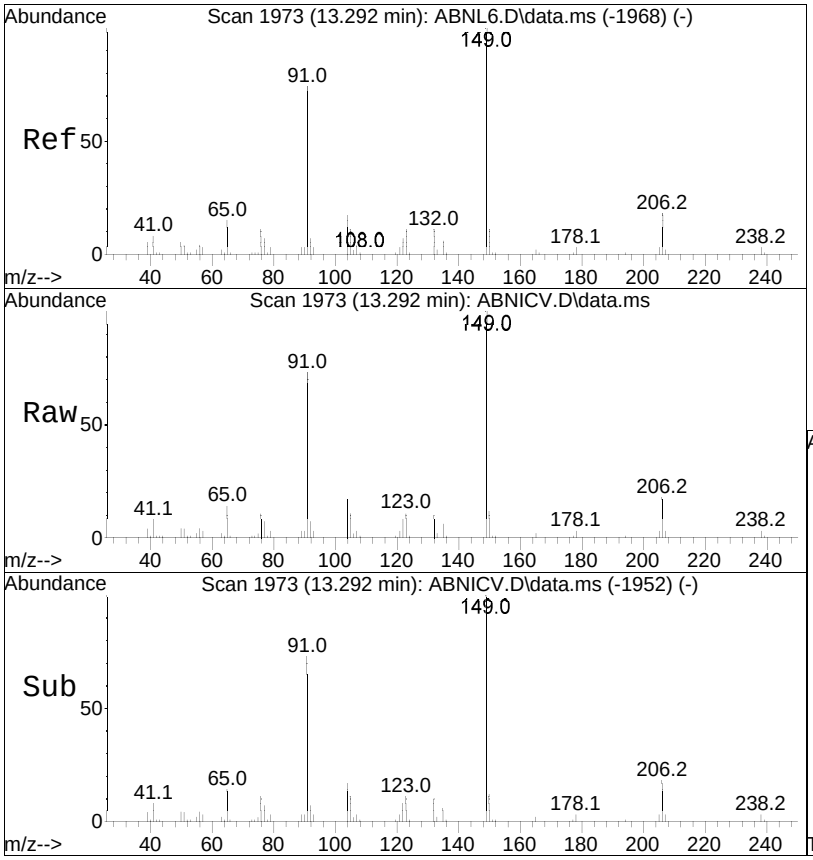


#94
Pyrene
Concen: 5.49 ug/ml
RT: 12.574 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 396732

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.6	14.2	21.4

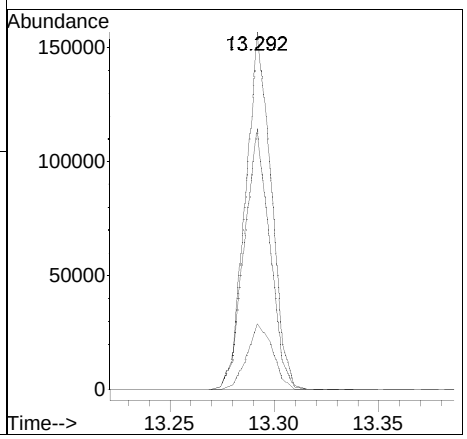


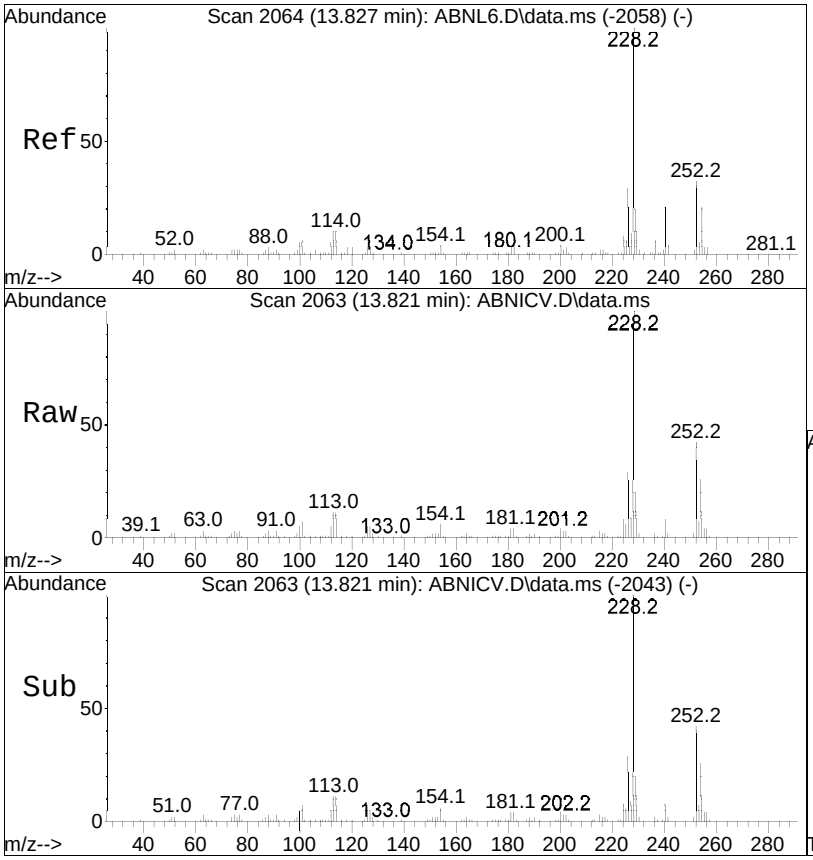


#96
Butyl benzyl phthalate
Concen: 4.56 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 132785

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	18.7	13.9	20.9

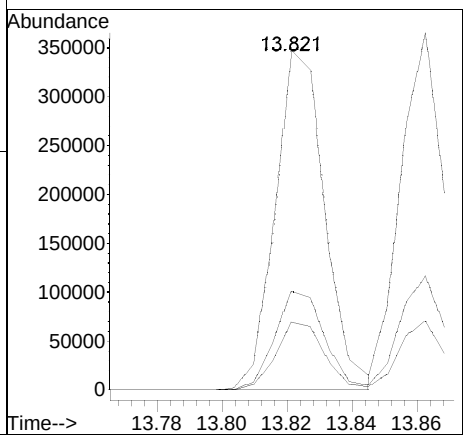


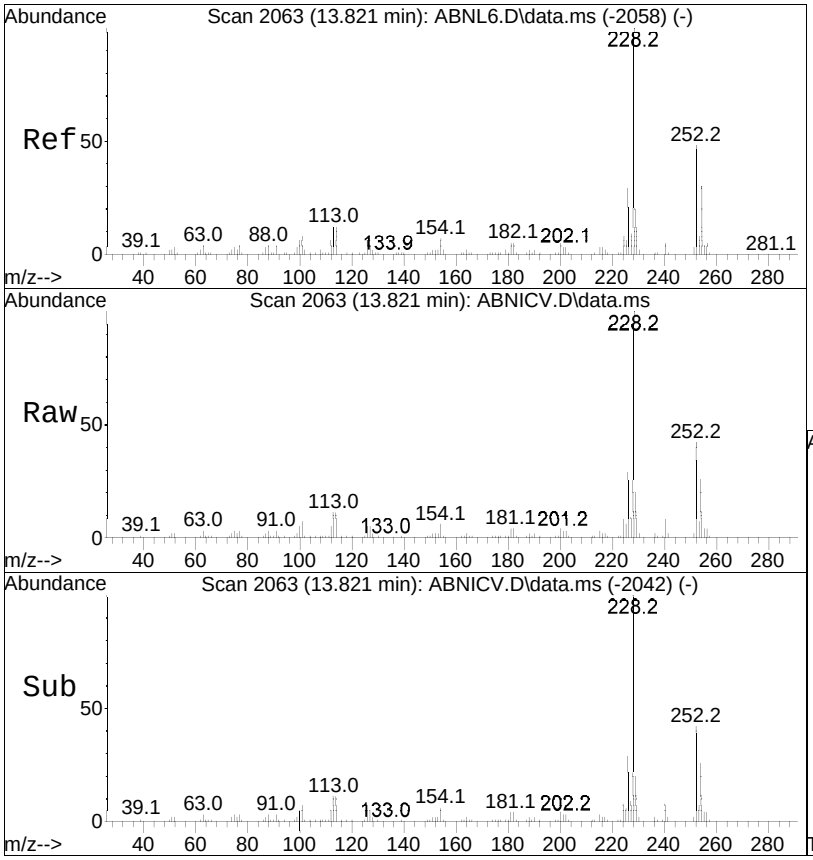


#104
Benzo(a)anthracene
Concen: 5.46 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 366917

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.8	15.6	23.4

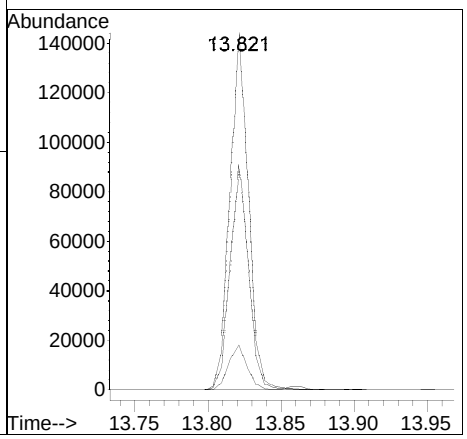


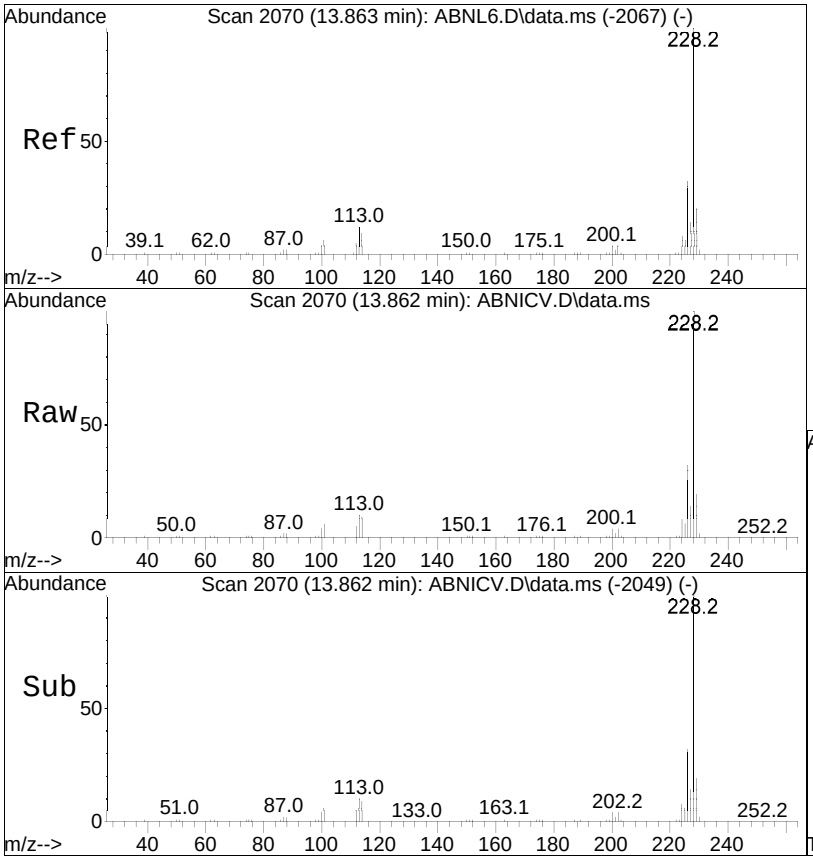


#105
3,3'-Dichlorobenzidine
Concen: 5.81 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 125706

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	63.1	51.2	76.8

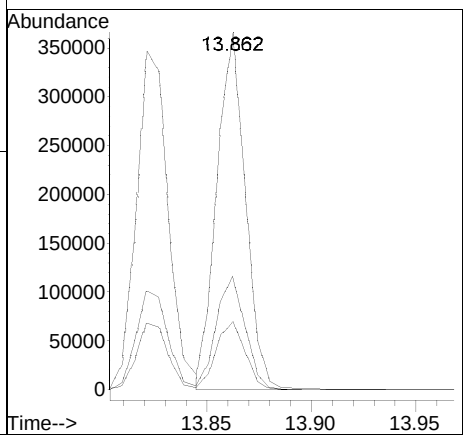


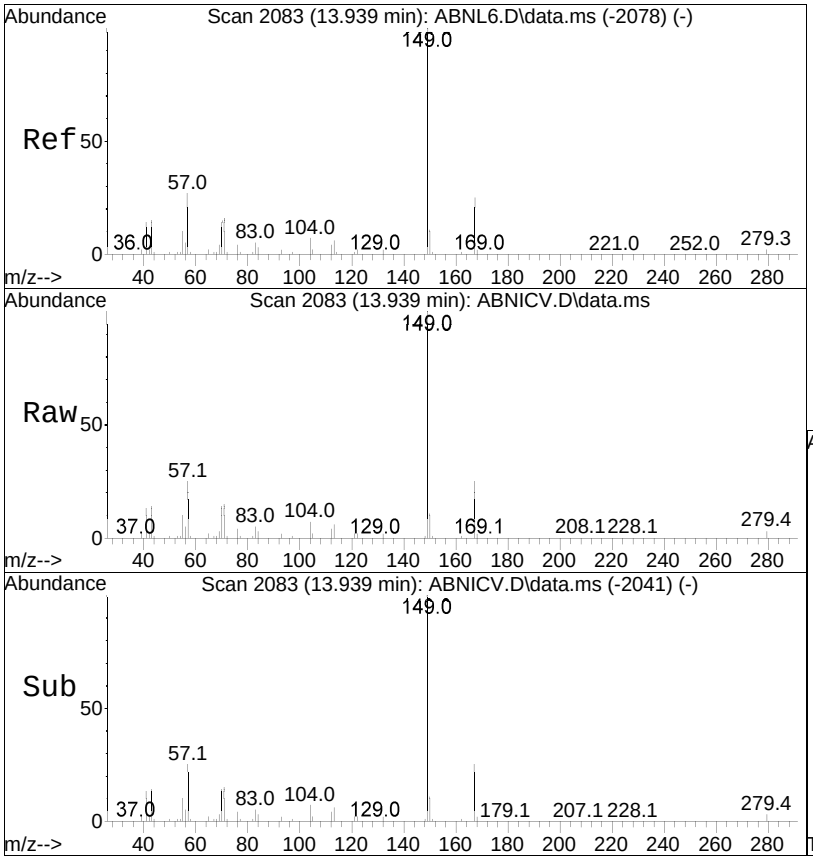


#106
Chrysene
Concen: 5.42 ug/ml
RT: 13.862 min Scan# 2070
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 347792

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.5	15.8	23.8

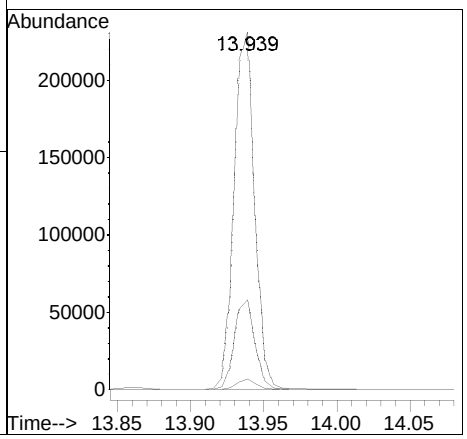


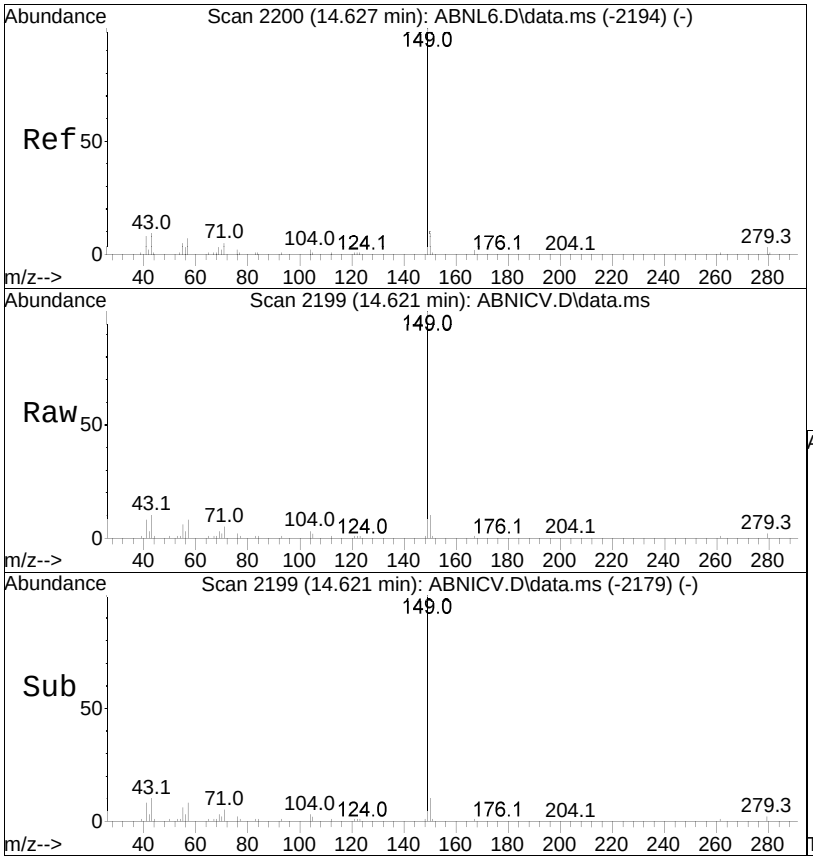


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.14 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 222853

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.5	3.0	4.4#

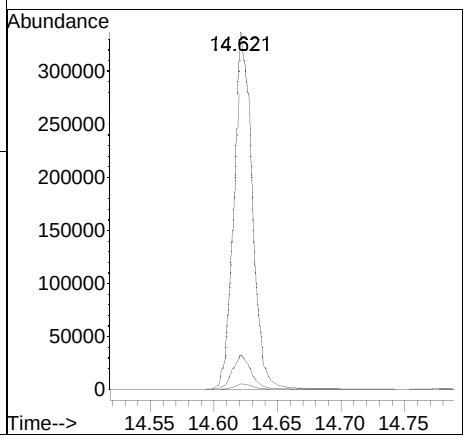


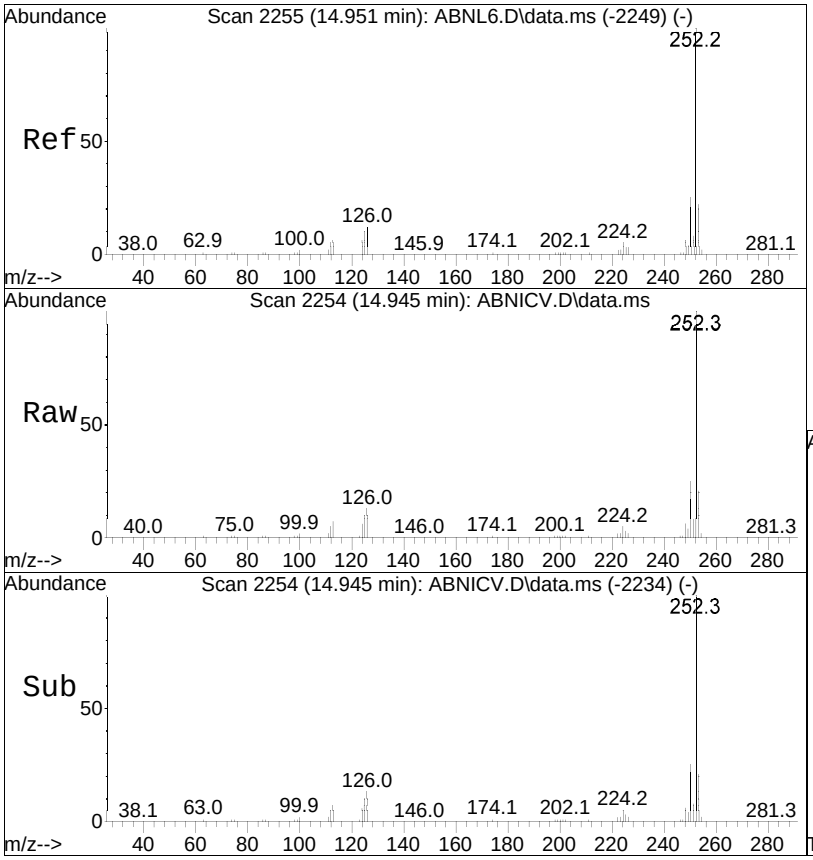


#108
Di-n-octylphthalate
Concen: 4.74 ug/ml
RT: 14.621 min Scan# 2199
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 332901

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.4	1.3	1.9

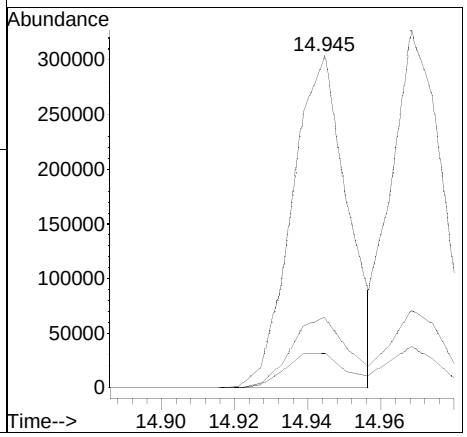


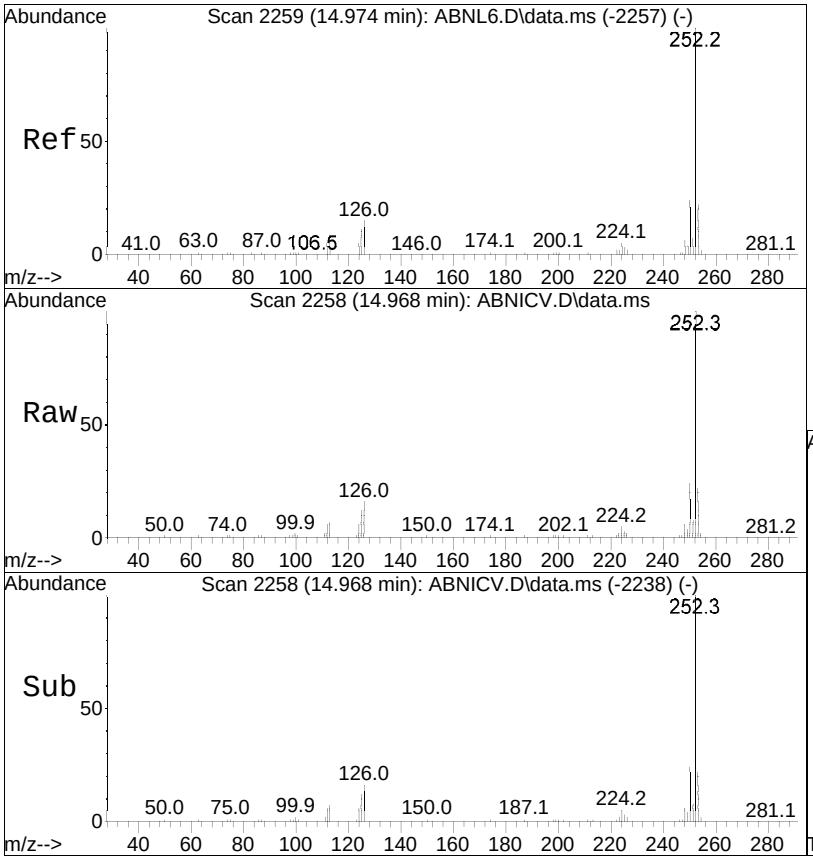


#109
Benzo(b)fluoranthene
Concen: 5.54 ug/ml
RT: 14.945 min Scan# 2254
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 328567

Ion	Ratio	Lower	Upper
252	100		
125	11.4	13.3	19.9#
253	21.8	17.1	25.7

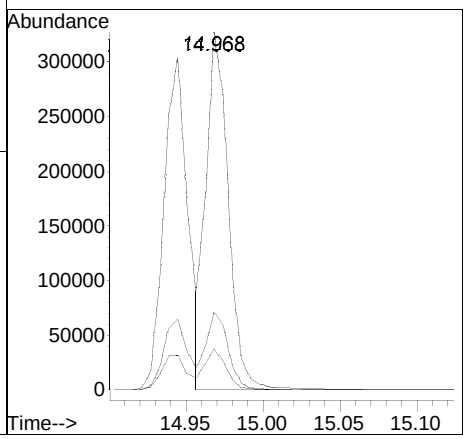


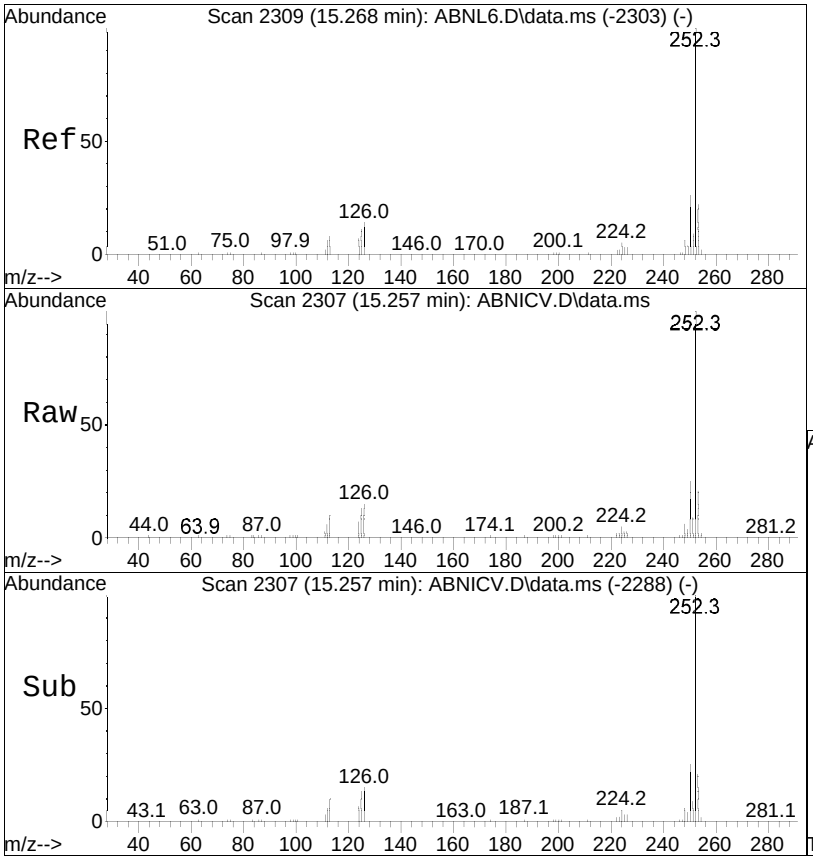


#110
Benzo(k)fluoranthene
Concen: 5.63 ug/ml
RT: 14.968 min Scan# 2258
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 326553

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	22.0	16.8	25.2

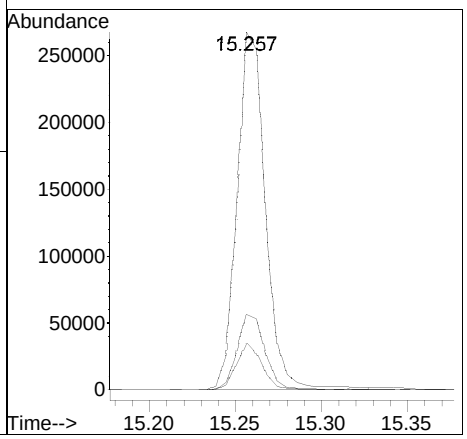


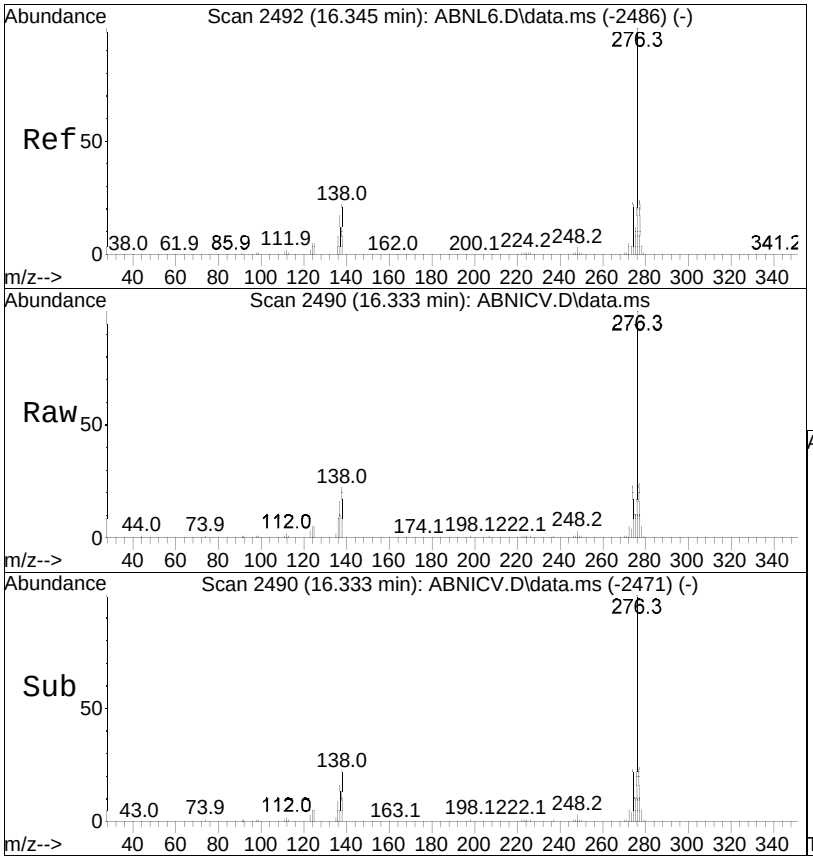


#111
Benzo(a)pyrene
Concen: 5.92 ug/ml
RT: 15.257 min Scan# 2307
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 305124

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	20.9	16.9	25.3

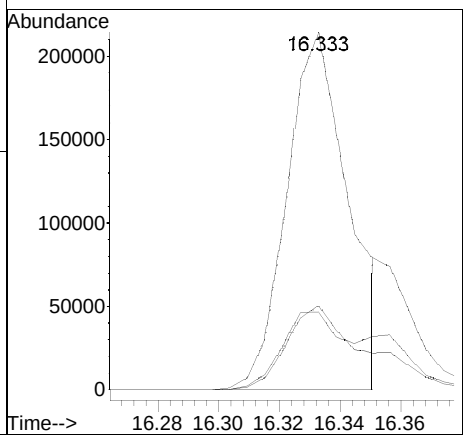


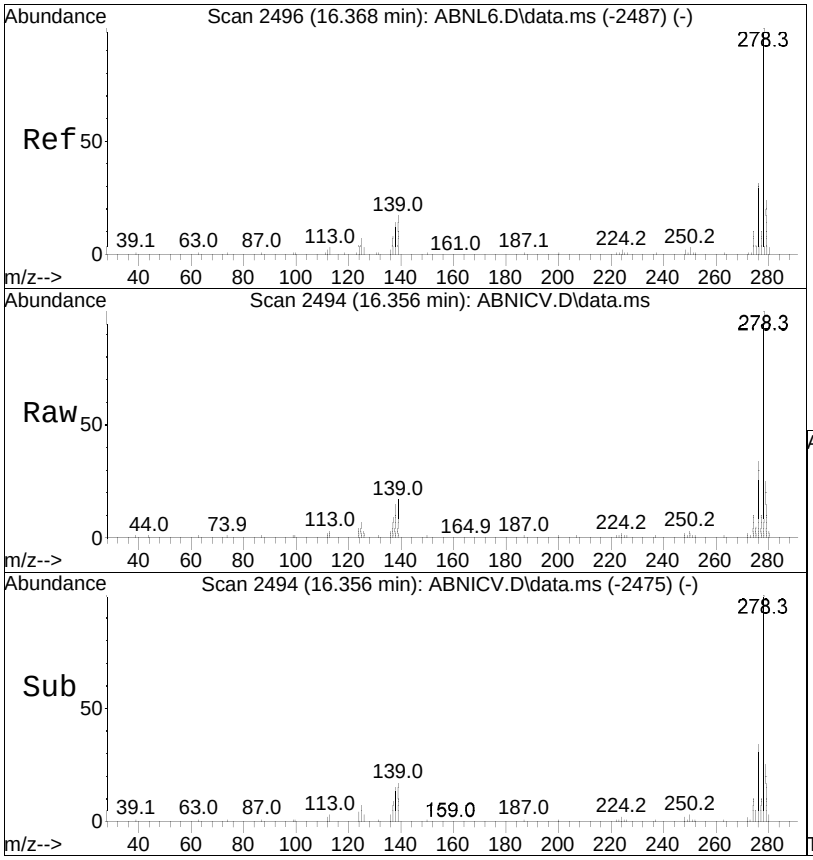


#113
Indeno(1,2,3-cd)pyrene
Concen: 6.28 ug/mL M6
RT: 16.333 min Scan# 2490
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 303147

Ion	Ratio	Lower	Upper
276	100		
138	34.9	25.1	37.7
277	30.8	18.6	28.0#

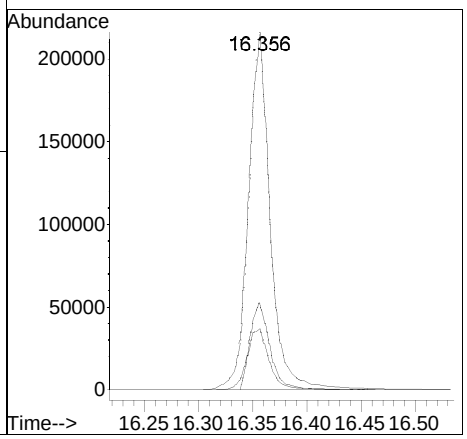


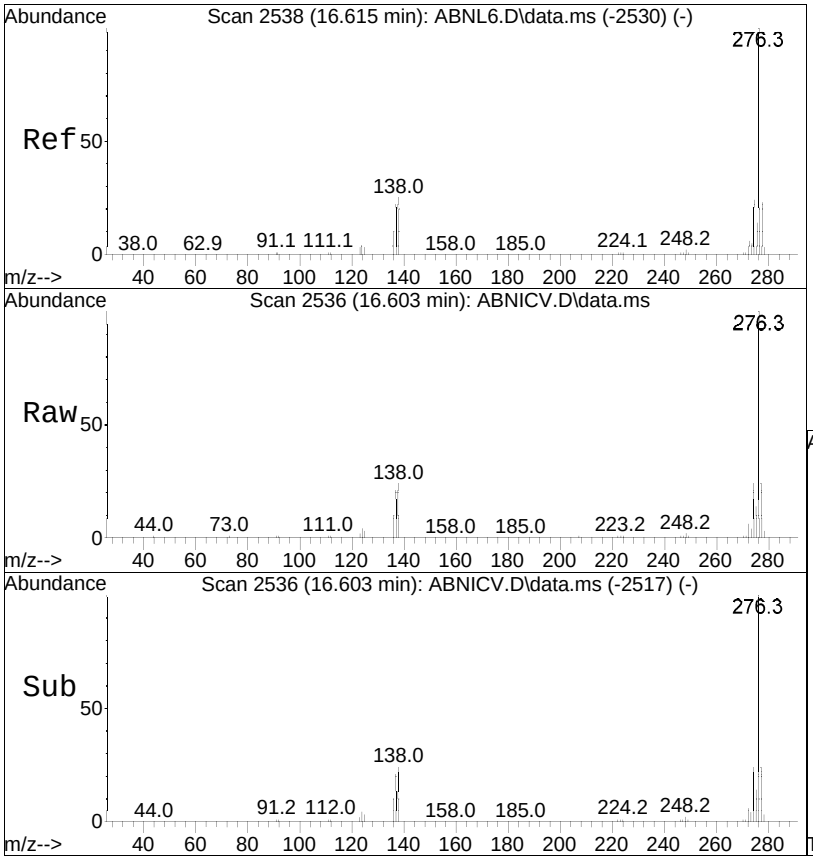


#114
Dibenzo(a,h)anthracene
Concen: 6.18 ug/ml
RT: 16.356 min Scan# 2494
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:278 Resp: 298480

Ion	Ratio	Lower	Upper
278	100		
139	16.6	20.8	31.2#
279	23.8	18.3	27.5

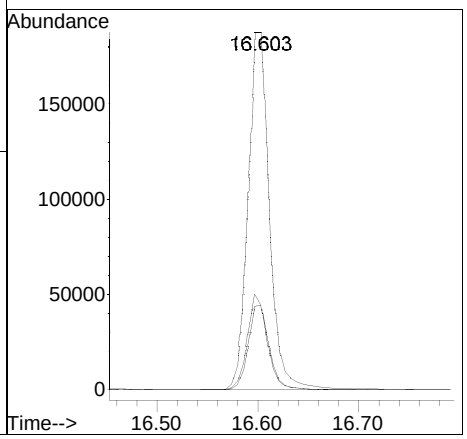




#115
Benzo(ghi)perylene
Concen: 5.79 ug/ml
RT: 16.603 min Scan# 2536
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 272174

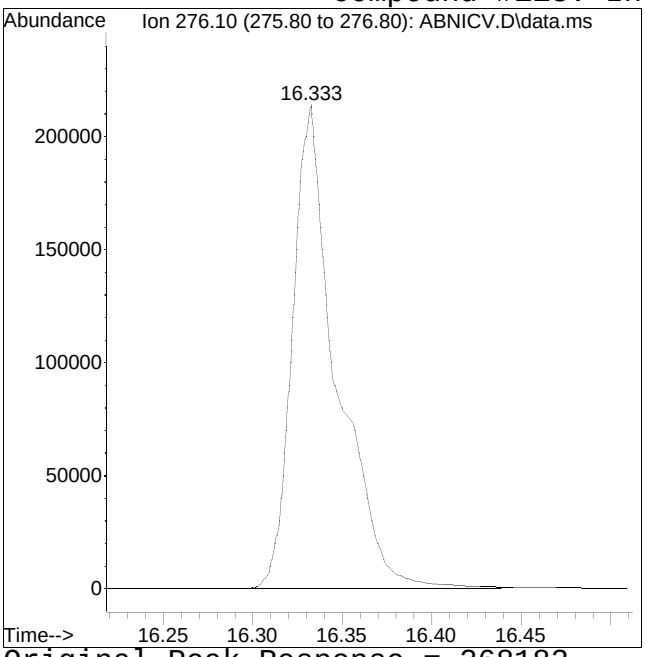
Ion	Ratio	Lower	Upper
276	100		
138	25.4	29.2	43.8#
277	23.6	18.8	28.2



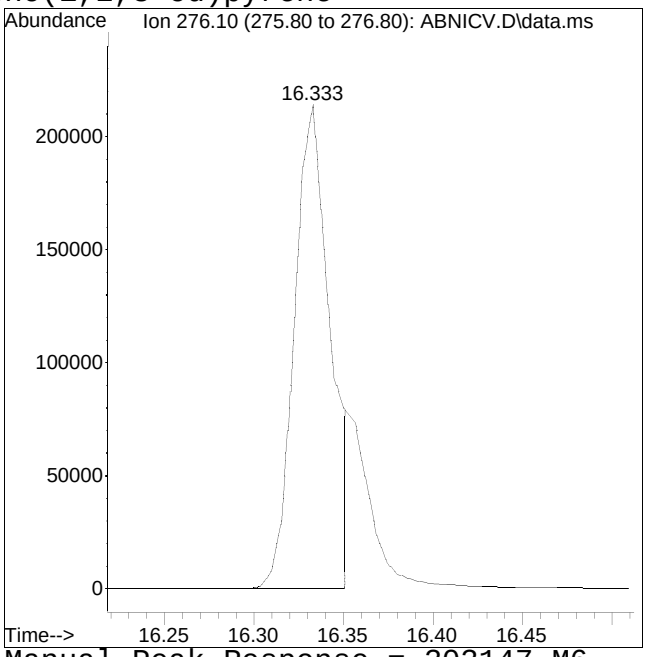
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNICV.D Operator : SV107:jg
Date Inj'd : 6/3/2024 3:14 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 106Quant Date : 6/3/2024 4:29 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 368182



Manual Peak Response = 303147 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	110	0.00
28	T	Benzaldehyde		1.024	0.995	2.8	114	0.00
29	T	Acetophenone		1.770	1.747	1.3	113	0.00
30	T	m-Toluidine		1.599	1.705	-6.6	114	0.00
31	T	2-Chloroaniline		1.546	1.533	0.8	112	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	104	0.00
55	T	a-Terpineol		0.276	0.276	0.0	111	0.00
56	T	3-Chloroaniline		0.147	0.150	-2.0	112	0.00
57	T	2,6-Dichlorophenol		0.290	0.299	-3.1	111	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.125	-3.3	117	0.00
59	T	Caprolactam		0.149	0.146	2.0	107	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.394	2.0	111	0.00
61	T	Biphenyl		0.929	0.909	2.2	111	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
83	T	Dichloran	*	5.000	4.676	6.5	120	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.804	3.9	116	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
98	T	Diphenamid		0.445	0.474	-6.5	114	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	48775	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 109.84%				
54) IS2_Naphthalene-d8	7.957	136	176755	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 104.23%				
82) IS2_Acenaphthene-d10	9.728	164	108771	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 108.94%				
97) IS2_Phenanthrene-d10	11.169	188	224732	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 104.55%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	60668	4.860	ug/ml		98
29) Acetophenone	7.022	105	106516	4.935	ug/ml	#	83
30) m-Toluidine	7.122	106	103936	5.330	ug/ml		94
31) 2-Chloroaniline	7.528	127	93473	4.957	ug/ml	#	93
55) a-Terpineol	8.022	59	60976	4.992	ug/ml	#	78
56) 3-Chloroaniline	8.034	65	33250	5.106	ug/ml		88
57) 2,6-Dichlorophenol	8.063	162	66015	5.153	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	27611	5.157	ug/ml	#	1
59) Caprolactam	8.369	55	32169	4.882	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.869	216	87005	4.897	ug/ml		96
61) Biphenyl	9.175	154	200775	4.891	ug/ml		100
83) Dichloran	10.863	206	16902	4.676	ug/ml	#	75
84) Pentachloronitrobenzene	11.016	237	19356	4.804	ug/ml	#	84
98) Diphenamid	12.074	167	133073	5.323	ug/ml		82

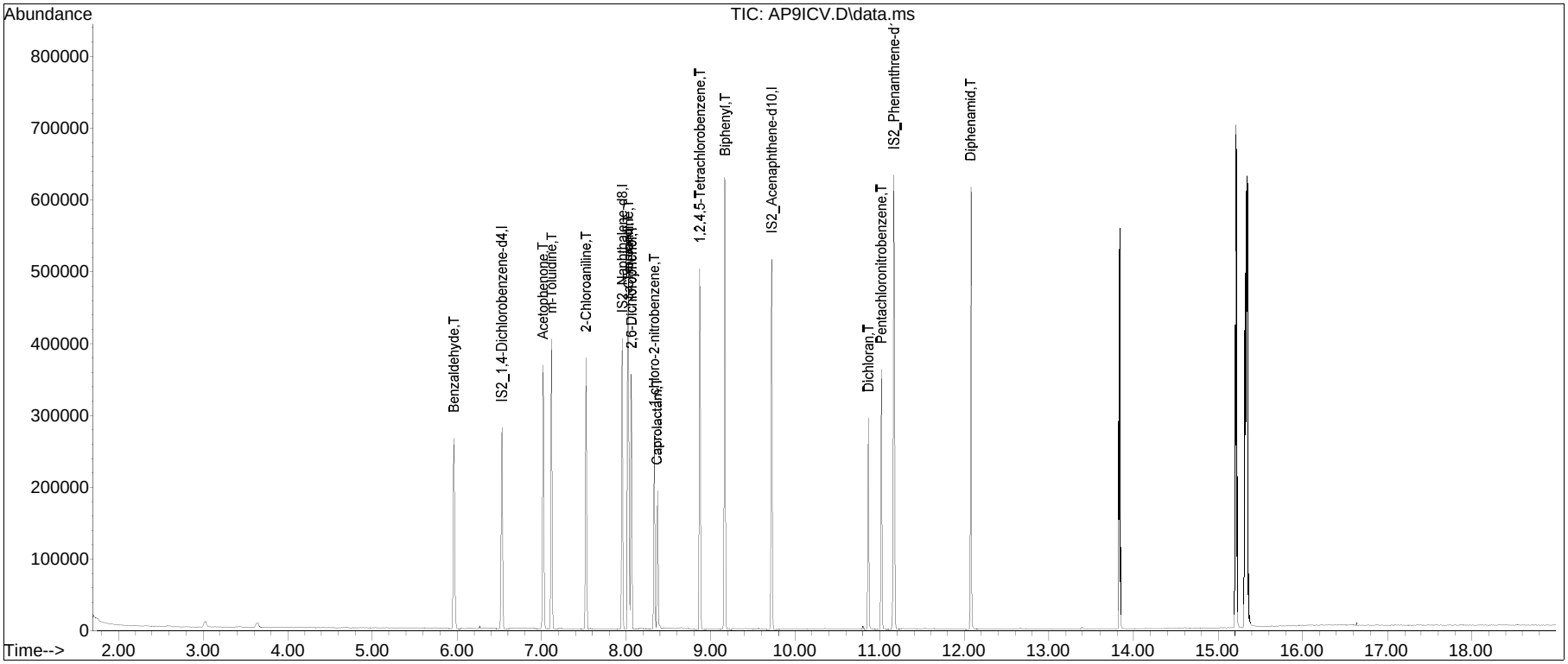
(#) = qualifier out of range (m) = manual integration (+) = signals summed

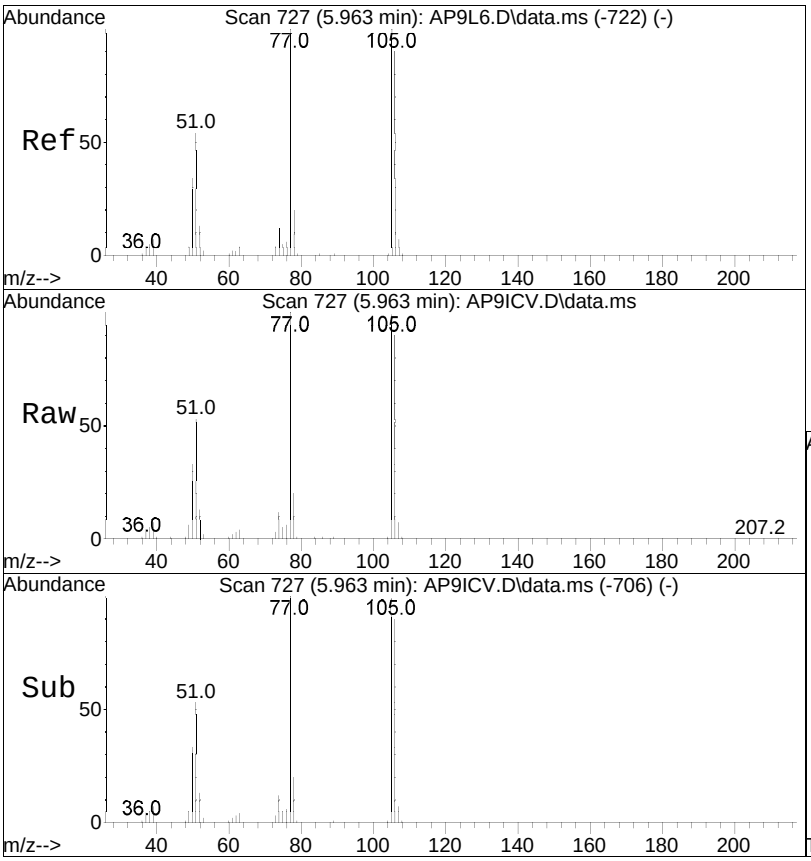
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

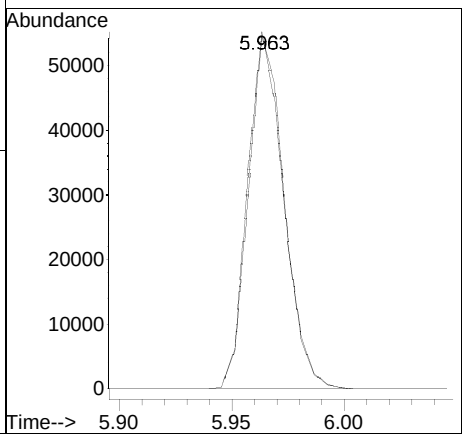


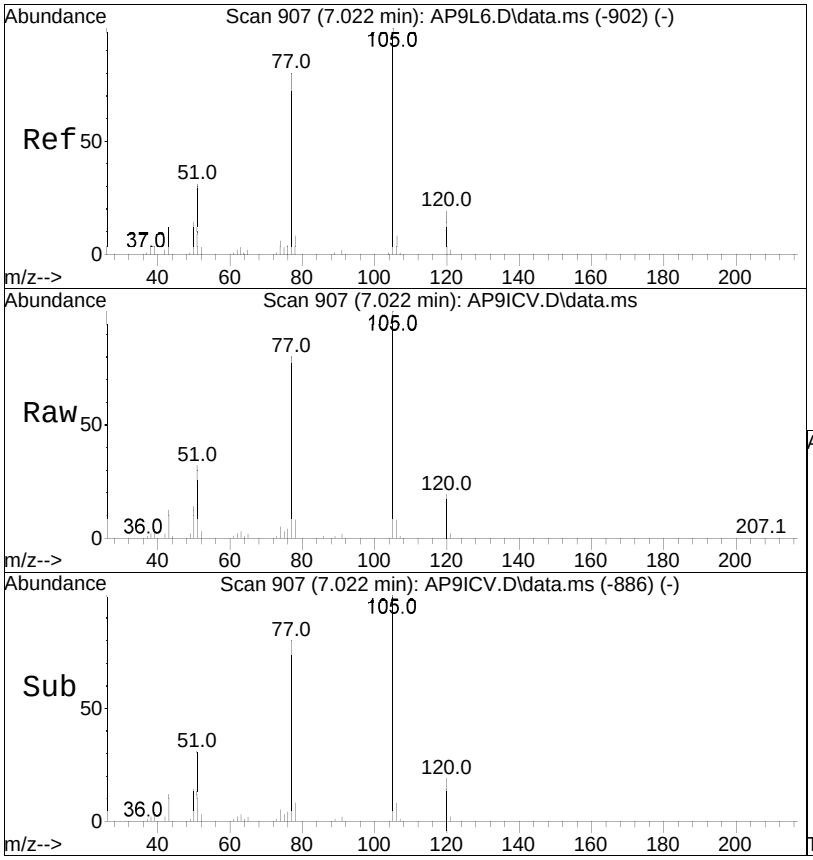


#28
Benzaldehyde
Concen: 4.86 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 60668

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

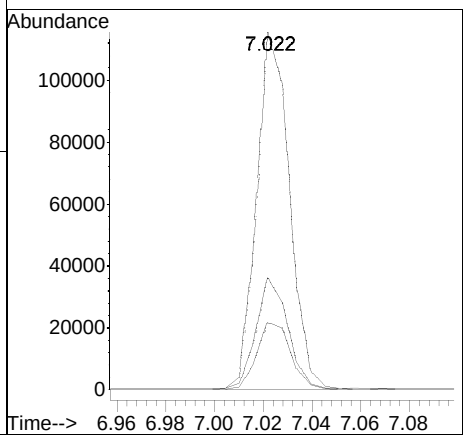


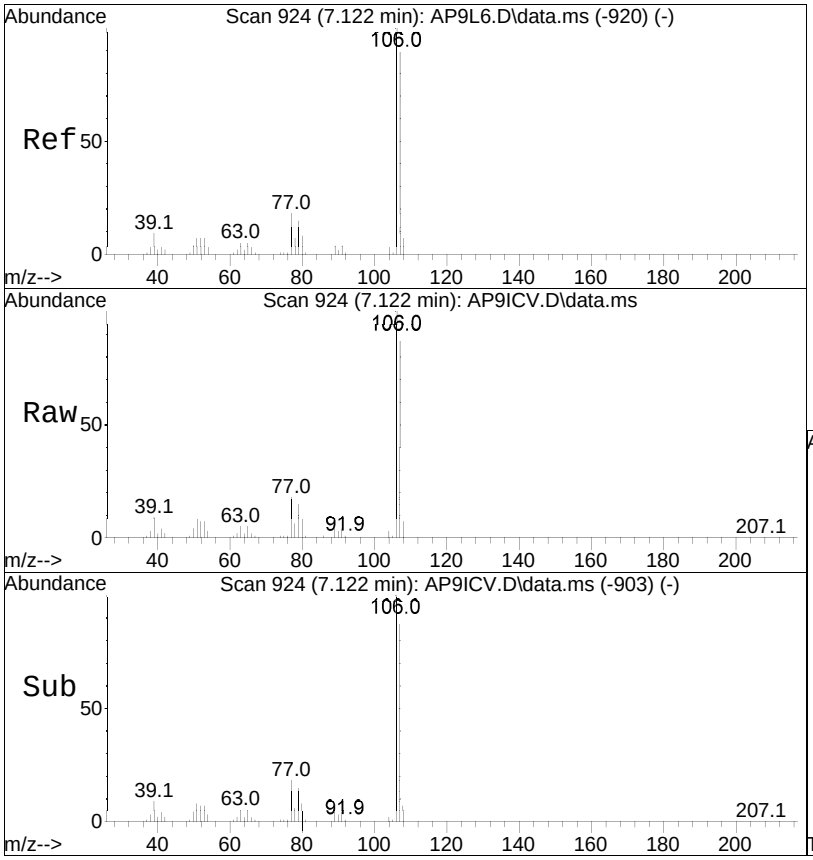


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 106516

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	30.5	34.9	52.3#

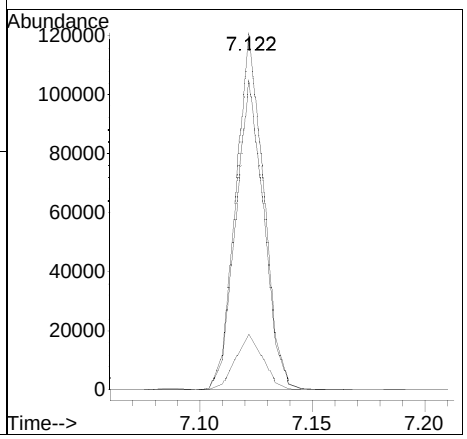


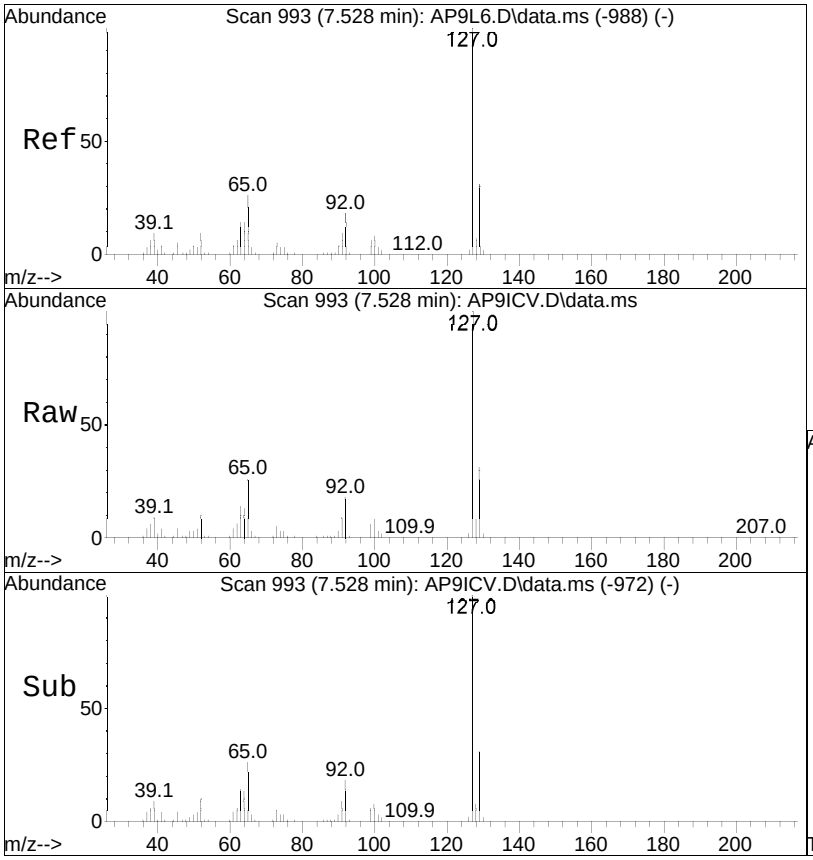


#30
m-Toluidine
Concen: 5.33 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:106 Resp: 103936

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.5	11.8	17.8

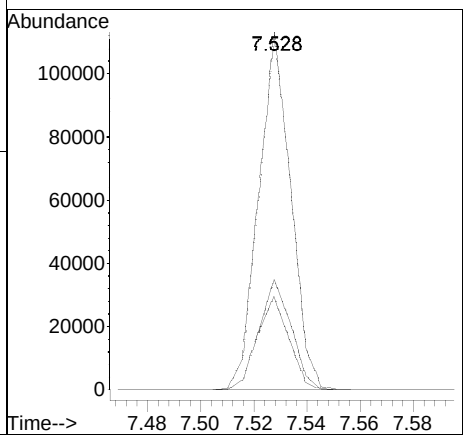


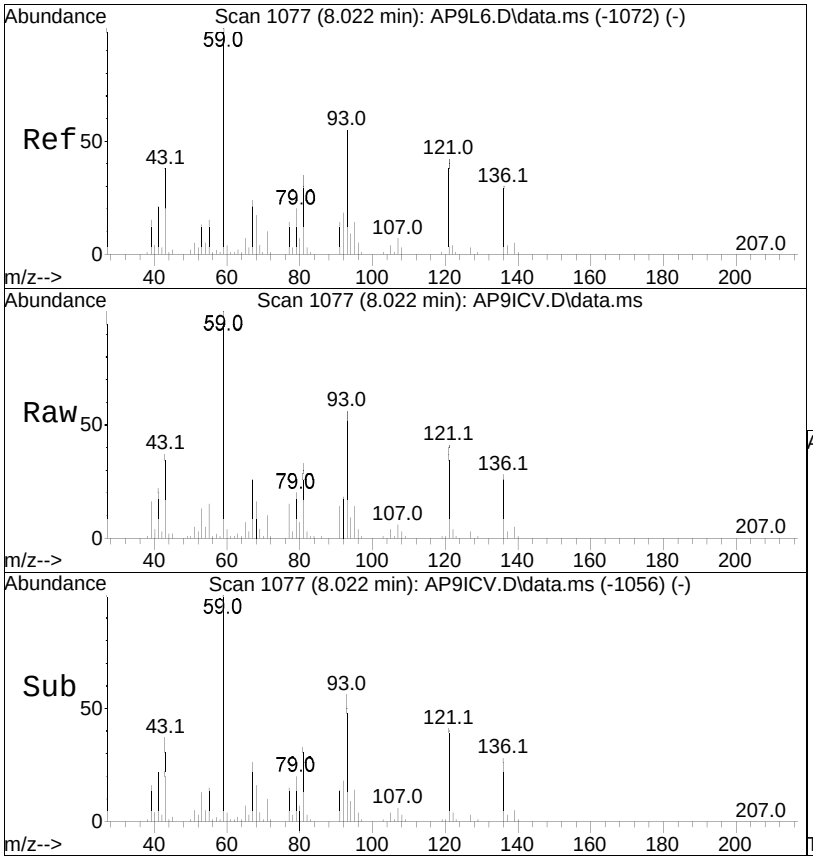


#31
2-Chloroaniline
Concen: 4.96 ug/ml
RT: 7.528 min Scan# 993
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:127 Resp: 93473

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	26.1	26.3	39.5#

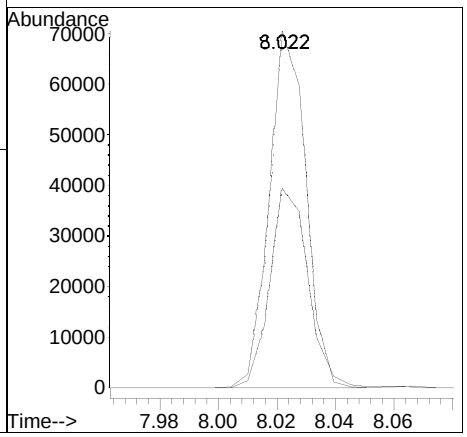


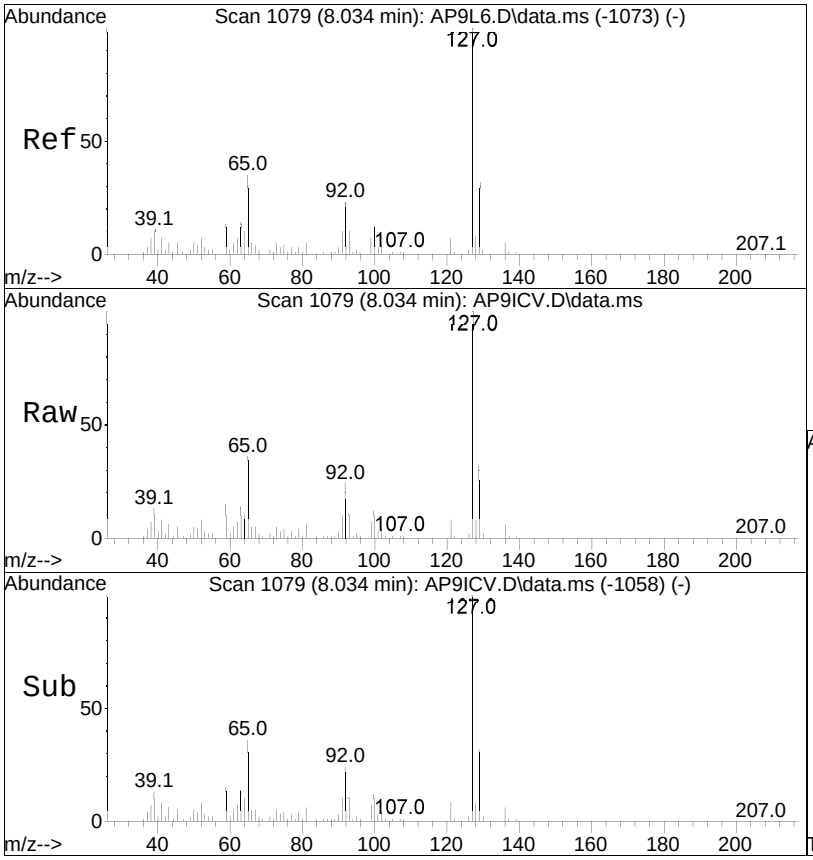


#55
a-Terpineol
Concen: 4.99 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 59 Resp: 60976

Ion	Ratio	Lower	Upper
59	100		
93	59.0	35.6	53.4#

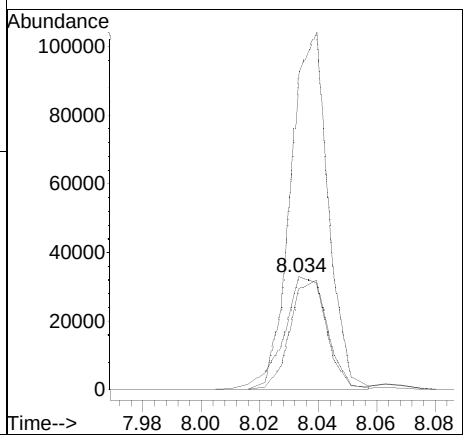


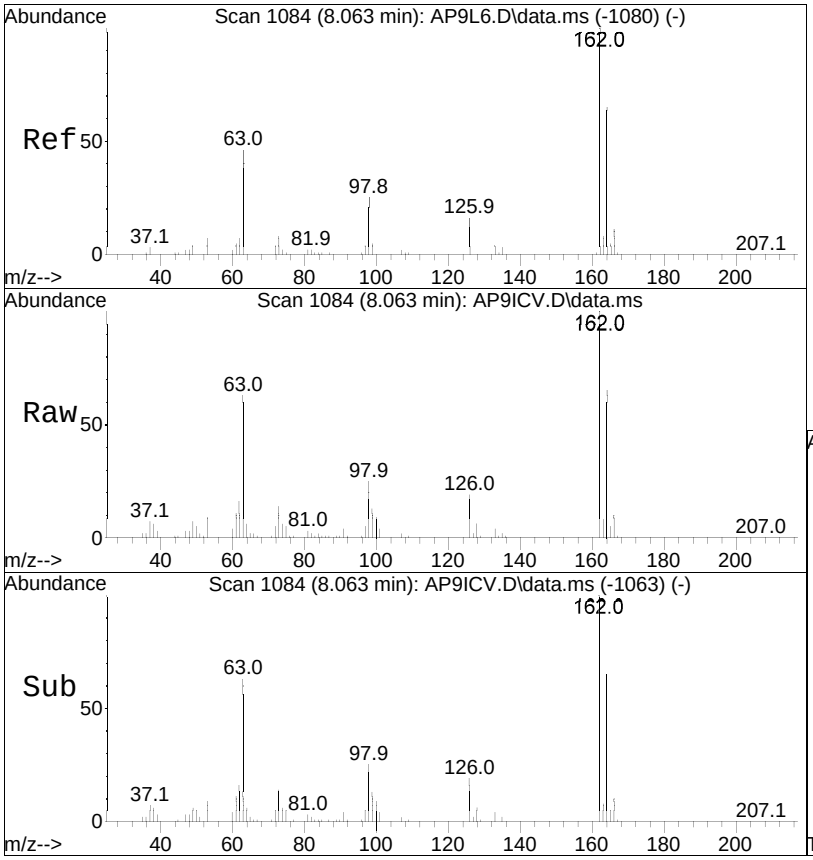


#56
3-Chloroaniline
Concen: 5.11 ug/ml
RT: 8.034 min Scan# 1079
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 65 Resp: 33250

Ion	Ratio	Lower	Upper
65	100		
127	279.0	243.2	364.8
129	87.0	78.8	118.2

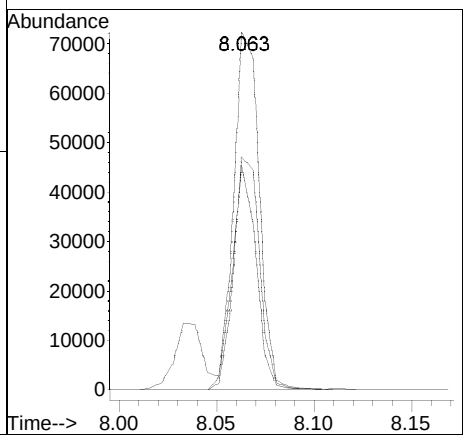


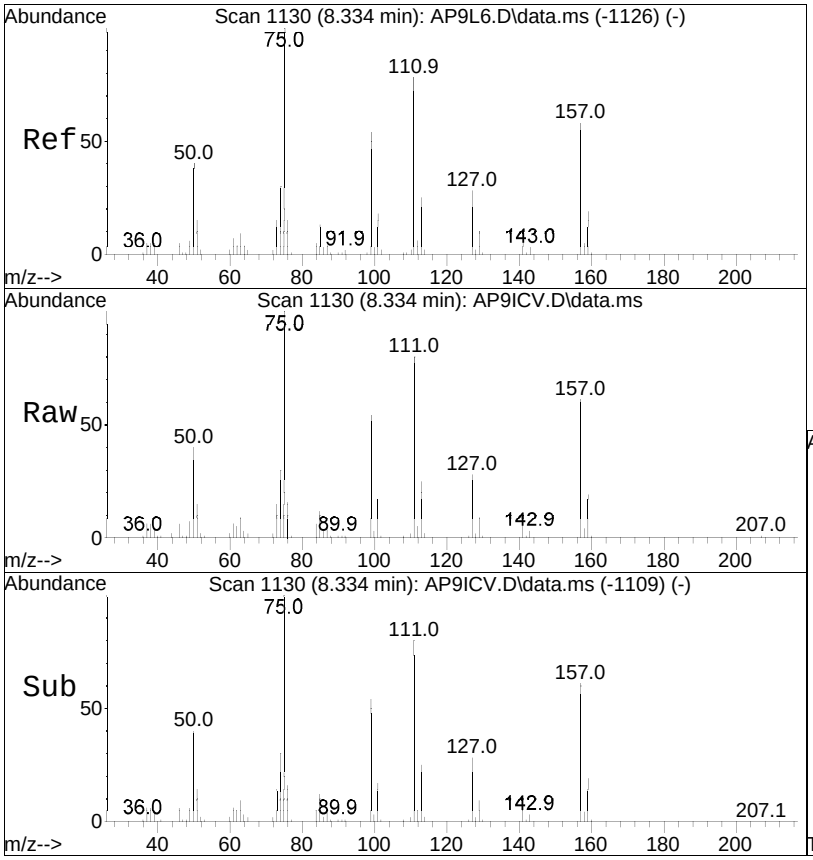


#57
2,6-Dichlorophenol
Concen: 5.15 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:162 Resp: 66015

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.1	76.7
63	56.8	60.8	91.2#

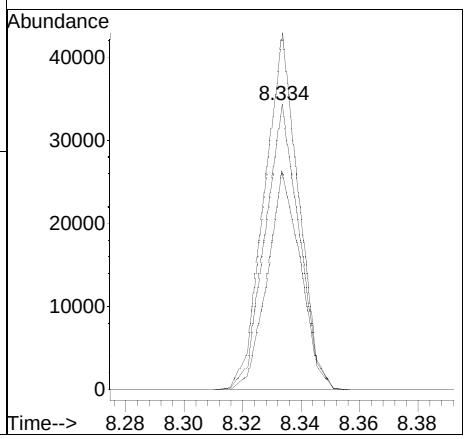


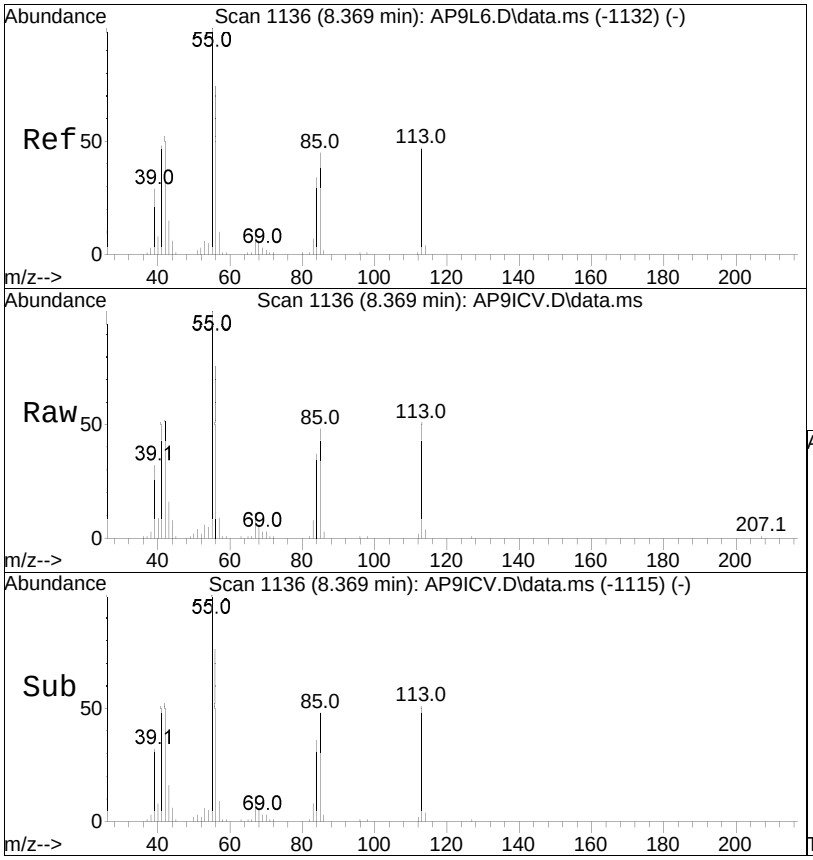


#58
1-chloro-2-nitrobenzene
Concen: 5.16 ug/ml
RT: 8.334 min Scan# 1130
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:111 Resp: 27611

Ion	Ratio	Lower	Upper
111	100		
157	74.9	0.0	0.0#
75	125.2	28.2	42.2#

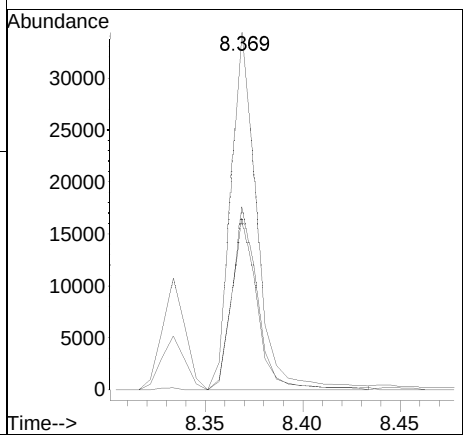


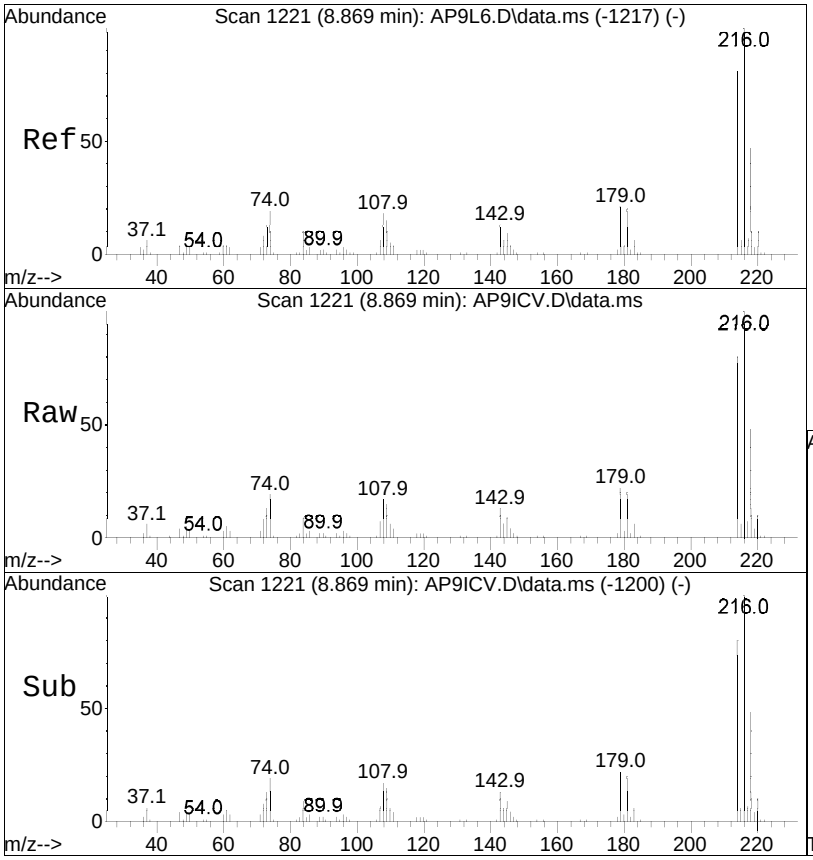


#59
Caprolactam
Concen: 4.88 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 55 Resp: 32169

Ion	Ratio	Lower	Upper
55	100		
85	47.5	19.8	29.6#
113	50.2	29.6	44.4#

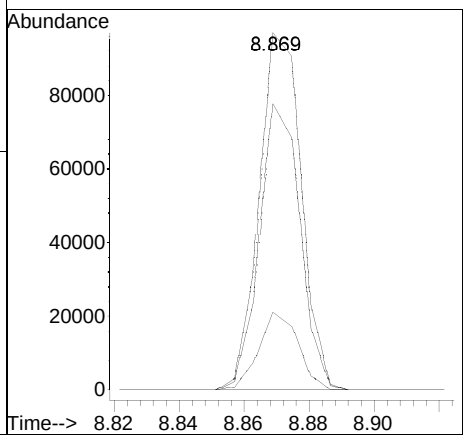


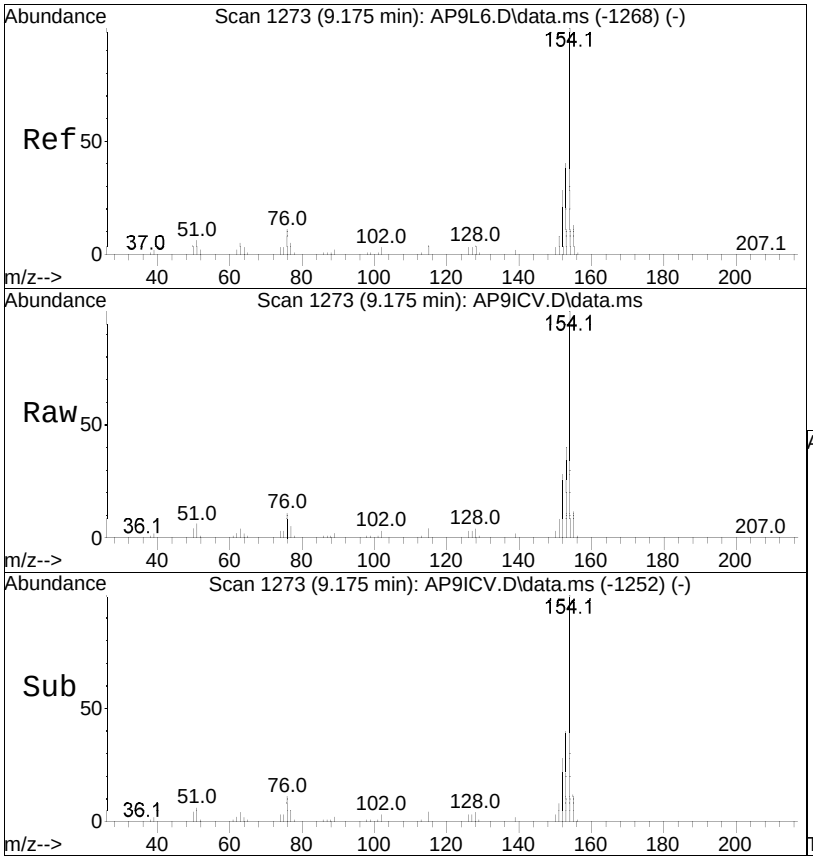


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.90 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:216 Resp: 87005

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	20.5	19.0	28.6

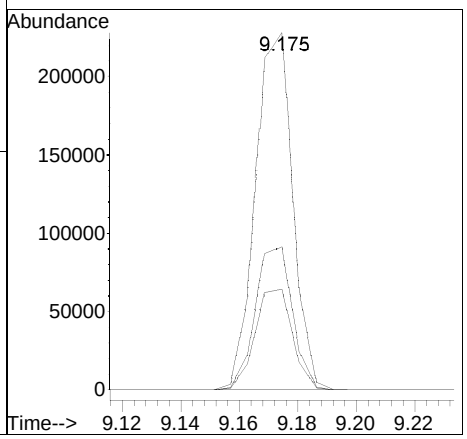


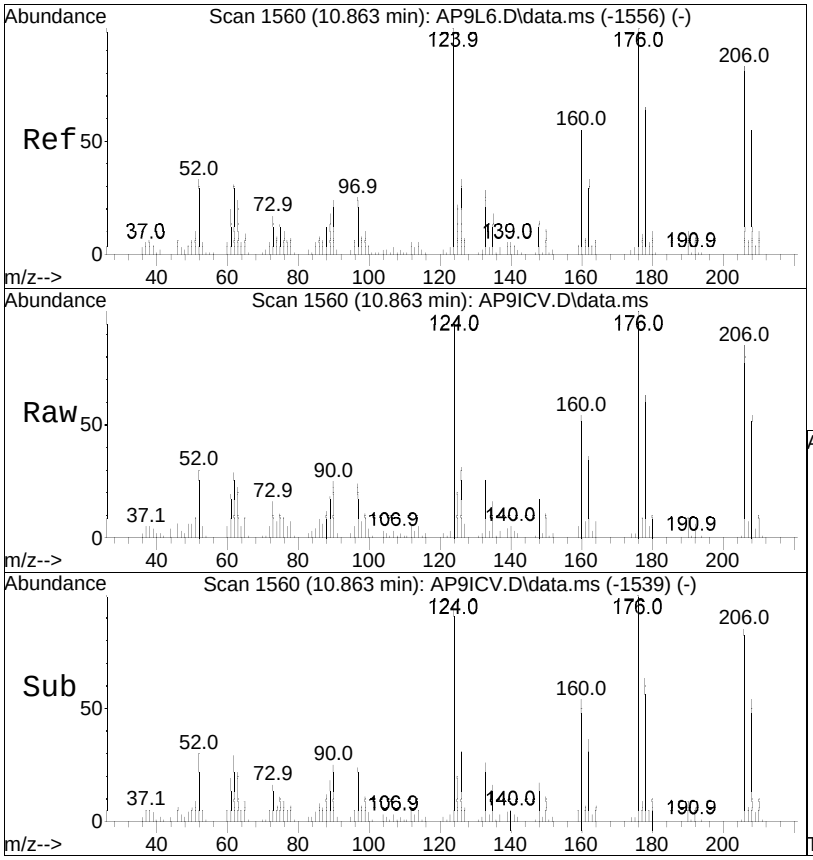


#61
Biphenyl
Concen: 4.89 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:154 Resp: 200775

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.6	22.5	33.7

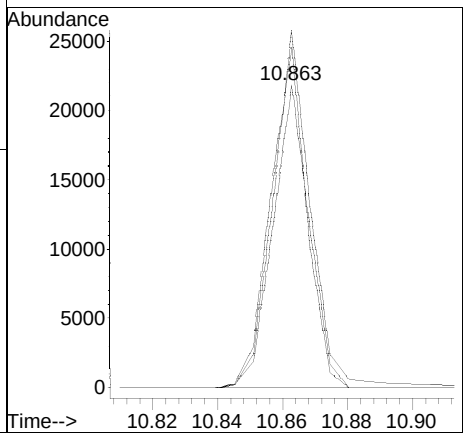


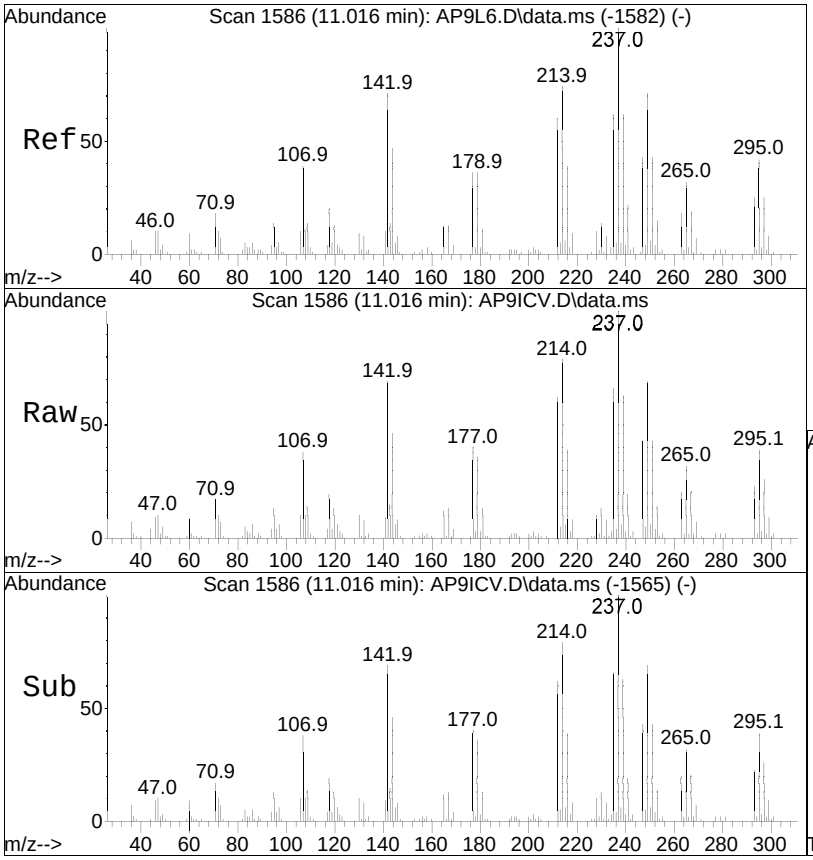


#83
Dichloran
Concen: 4.68 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:206 Resp: 16902

Ion	Ratio	Lower	Upper
206	100		
176	122.7	104.6	157.0
124	111.4	130.5	195.7#

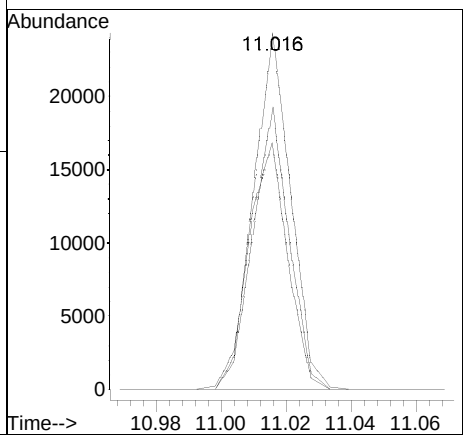


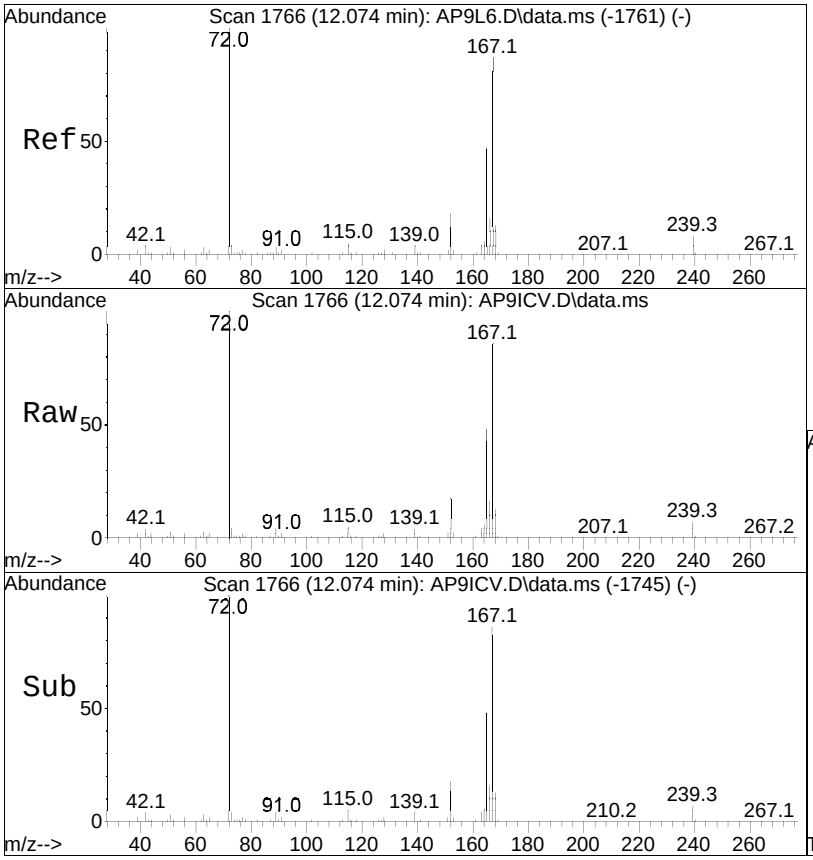


#84
Pentachloronitrobenzene
Concen: 4.80 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:237 Resp: 19356

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	77.0	58.2	87.4

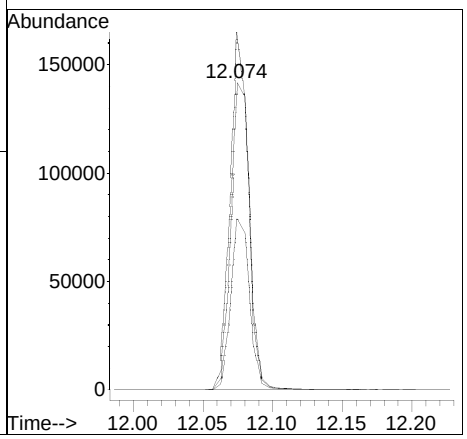




#98
Diphenamid
Concen: 5.32 ug/ml
RT: 12.074 min Scan# 1766
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:167 Resp: 133073

Ion	Ratio	Lower	Upper
167	100		
72	110.2	109.7	164.5
165	55.5	41.8	62.6



Manual Integration Report

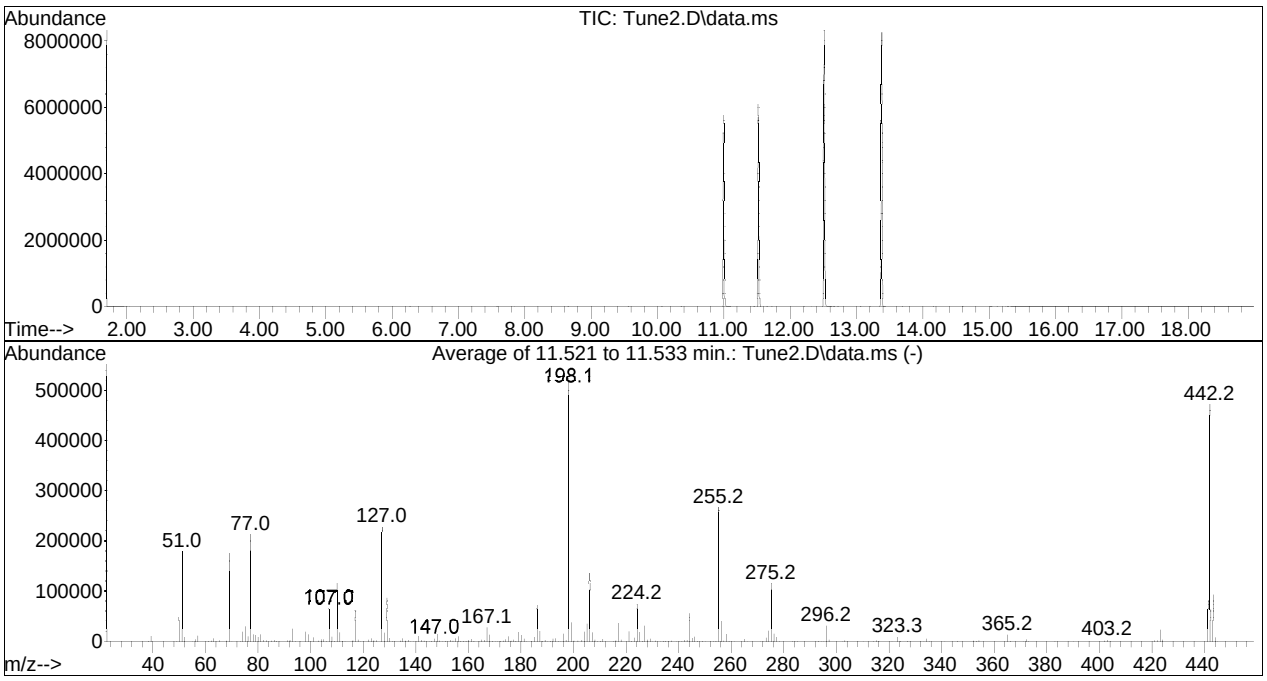
Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9ICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 3:39 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

There are no manual integrations or false positives in this file.

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



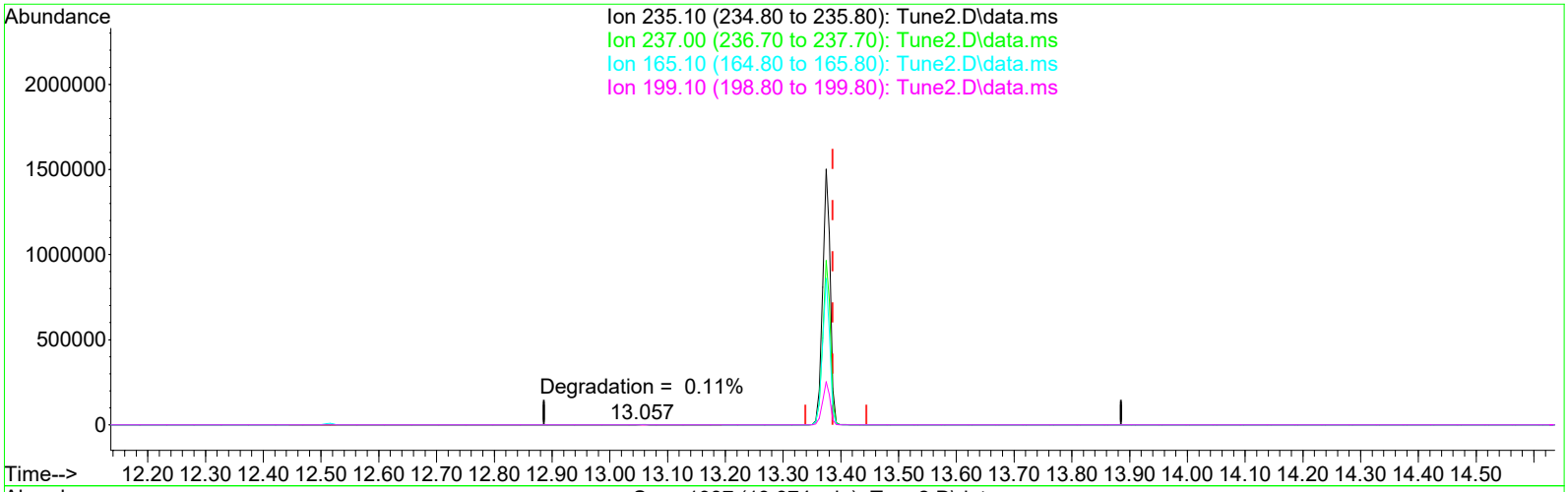
Spectrum Information: Average of 11.521 to 11.533 min.

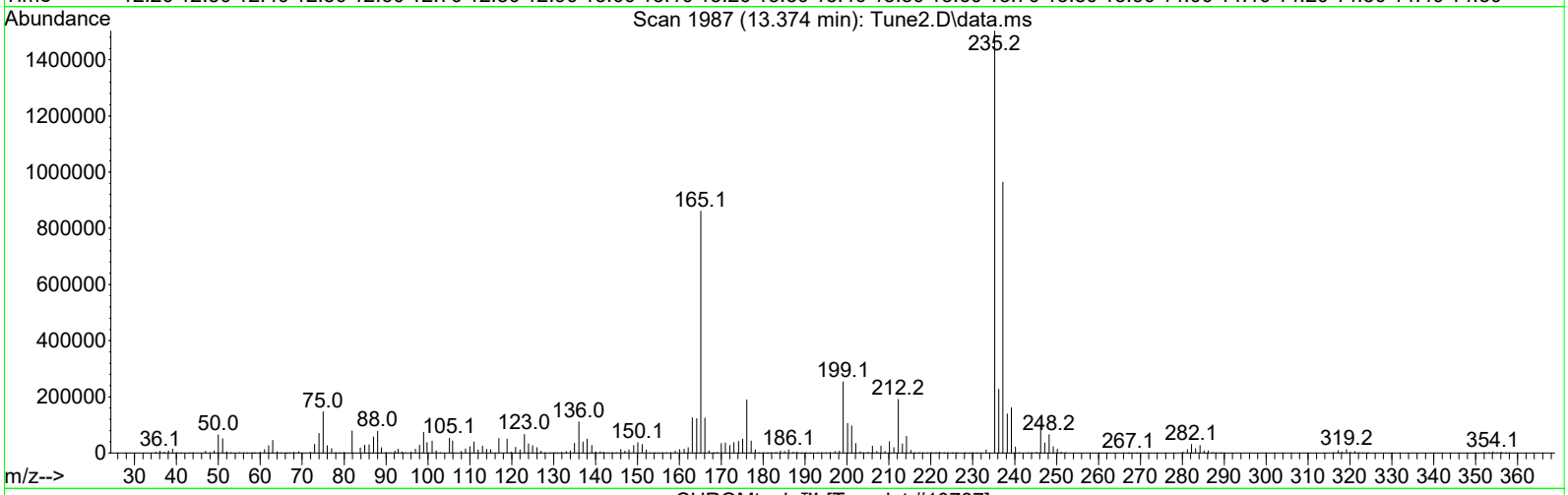
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.1	179126	PASS
68	69	0.00	2	1.6	2727	PASS
69	69	100	100	100.0	175083	PASS
70	69	0.00	2	0.5	958	PASS
127	198	10	80	43.3	227533	PASS
197	198	0.00	2	0.7	3814	PASS
198	198	100	100	100.0	525056	PASS
199	198	5	9	6.8	35925	PASS
275	198	10	60	21.9	115021	PASS
365	198	1	100	2.5	13285	PASS
441	442	0.01	24	17.1	80432	PASS
442	198	50	100	89.8	471531	PASS
443	442	15	24	19.6	92475	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.374min (-0.012) 225.28

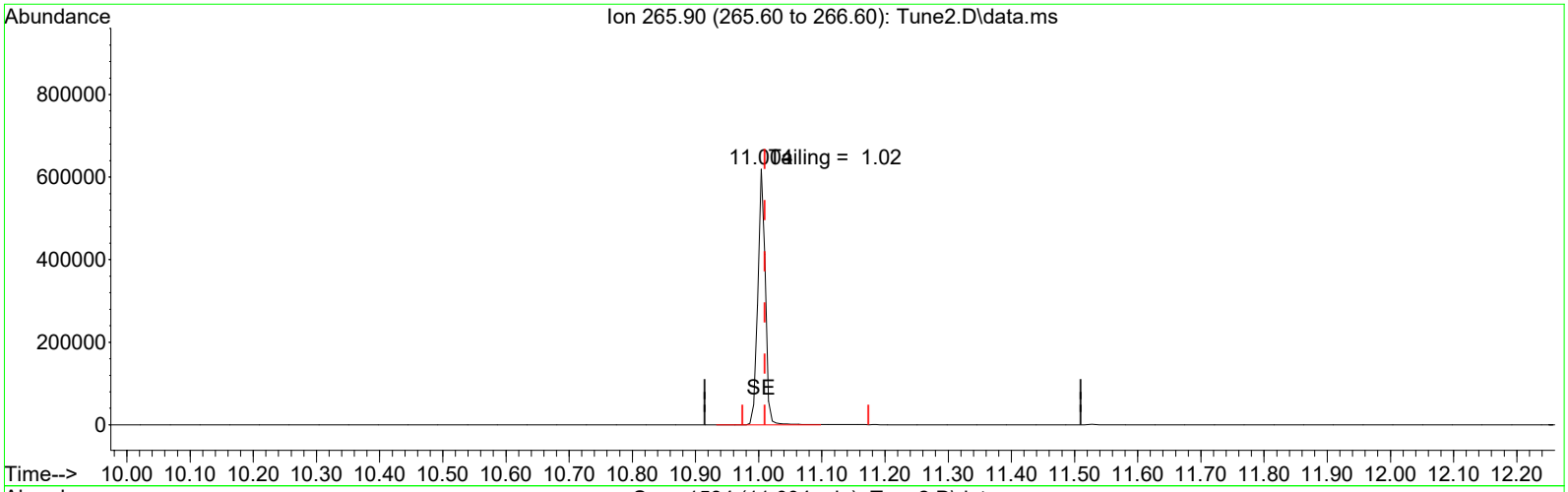
response 1373258

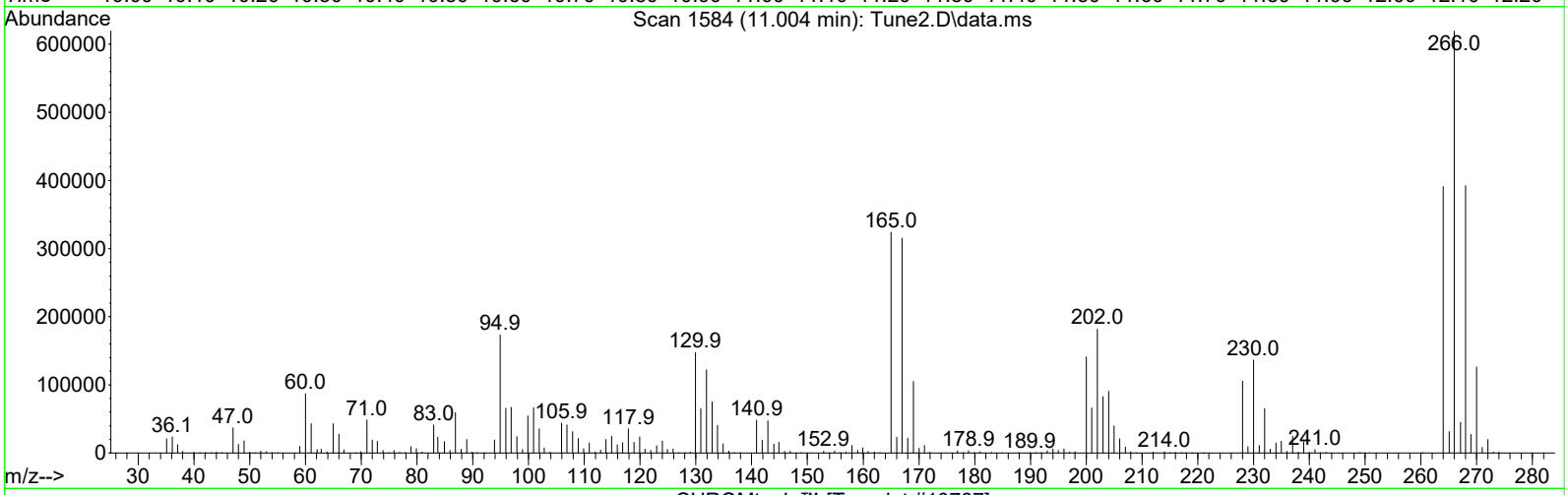
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.18
165.10	55.40	54.82
199.10	16.20	16.61

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.004min (-0.006) 246.25

response 517216

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

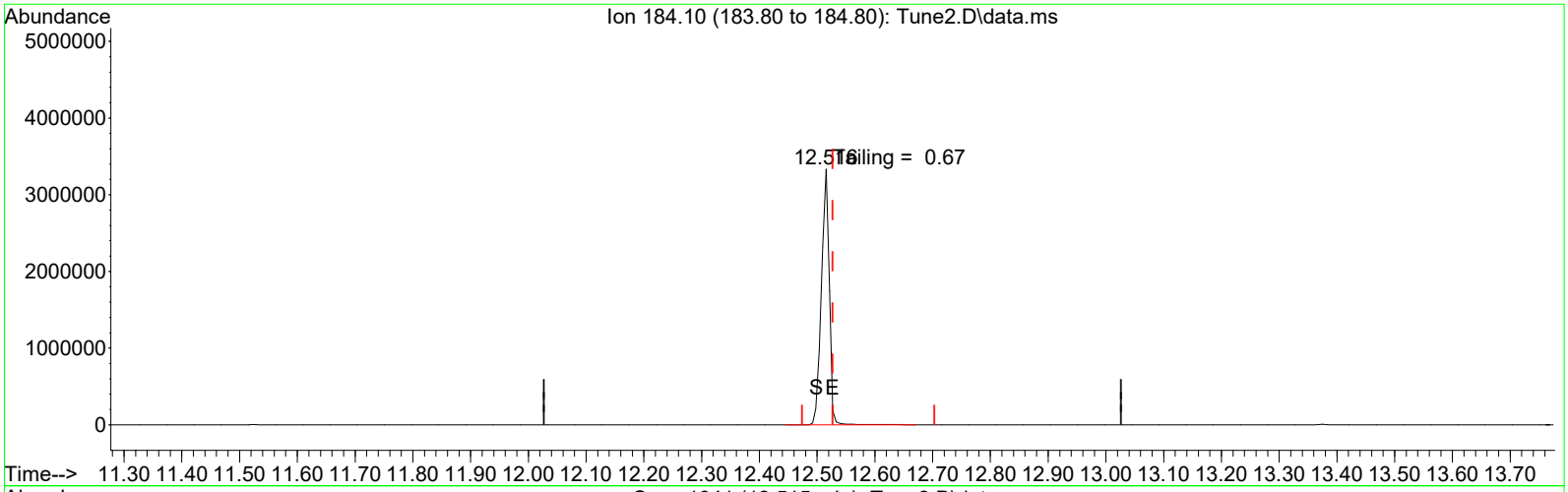
Duplicate Retention Times

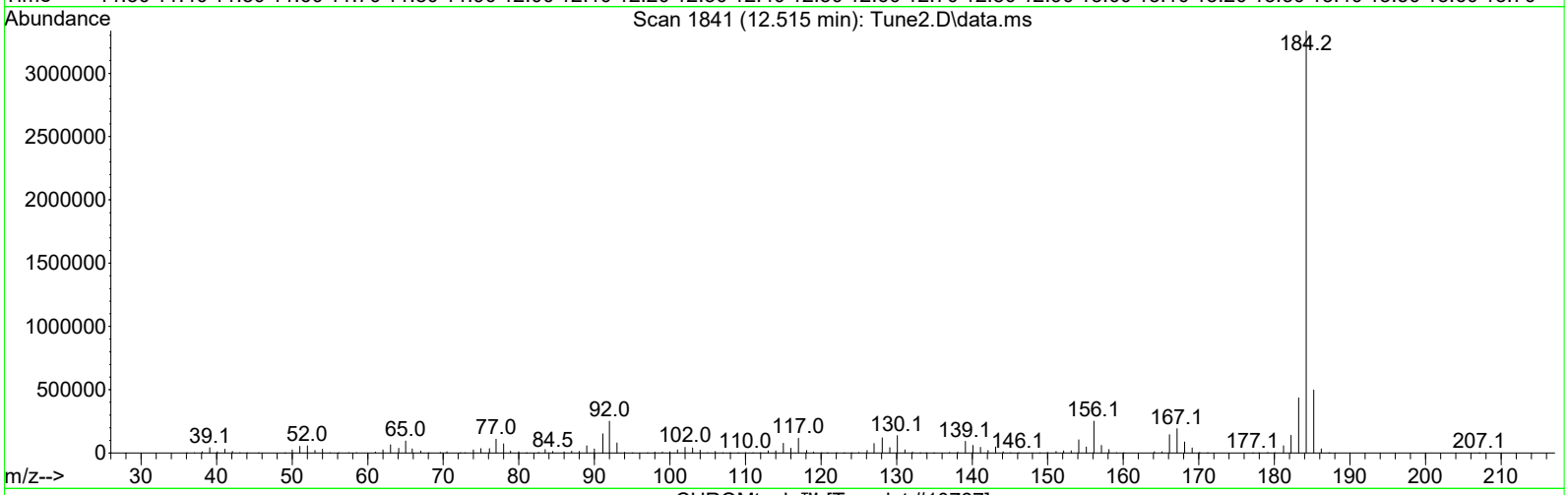
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.515min (-0.011) 309.73

response 3153109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.528	152	47256	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 97.26%			
85) IS3_Acenaphthene-d10	9.728	164	107768	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 99.45%			
99) IS3_Phenanthrene-d10	11.169	188	235749	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 101.01%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	888155	51.448	ug/ml#	45
86) Atrazine	10.945	200	640804	48.965	ug/ml	96
100) n-Octadecane	11.145	57	1411913	65.046	ug/ml#	1
101) Parathion	11.963	109	364006	52.963	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.263	212	2636452	58.961	ug/ml	98

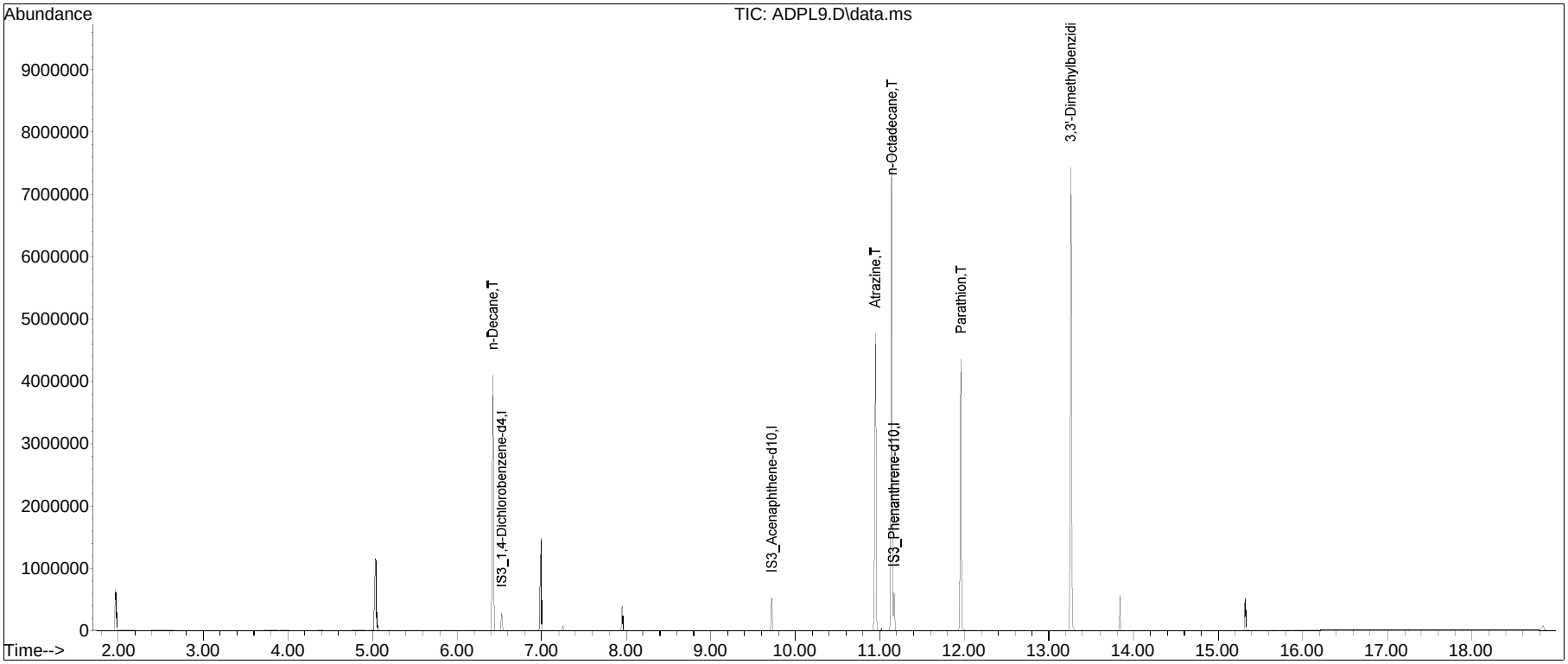
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL9.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:29 am	Instrument	: SV107
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51248	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	105.48%		
85) IS3_Acenaphthene-d10	9.727	164	116945	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	107.92%		
99) IS3_Phenanthrene-d10	11.169	188	253101	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	108.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	454019	24.251	ug/ml#	44
86) Atrazine	10.945	200	311783	26.312	ug/ml	96
100) n-Octadecane	11.145	57	687493	29.501	ug/ml#	1
101) Parathion	11.957	109	158582	26.950	ug/ml	98
102) 3,3'-Dimethylbenzidine	13.263	212	1265195	27.816	ug/ml	98

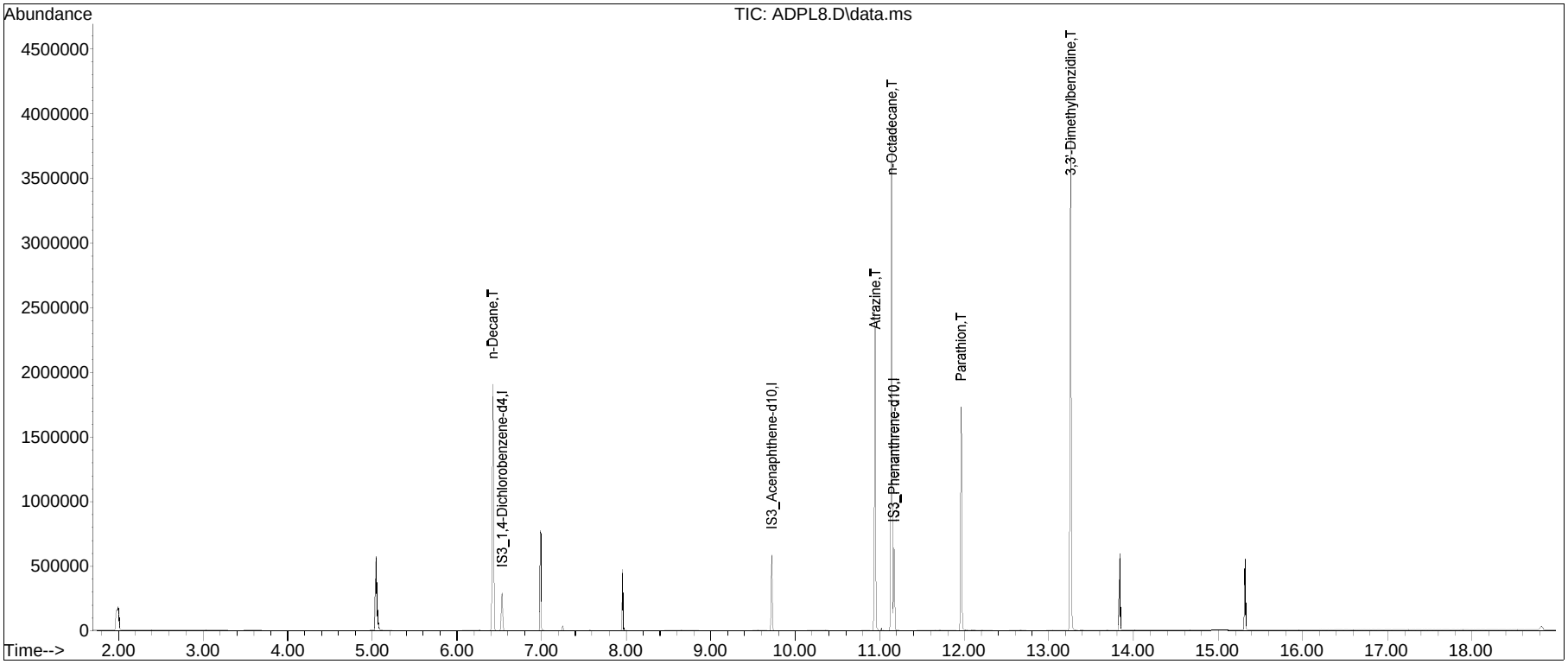
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL8.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:54 am	Instrument	: SV107
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51597	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.20%		
85) IS3_Acenaphthene-d10	9.728	164	112556	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	103.87%		
99) IS3_Phenanthrene-d10	11.169	188	243667	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	104.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	181344	9.621	ug/ml#	44
86) Atrazine	10.939	200	109374	11.099	ug/ml	96
100) n-Octadecane	11.139	57	260309	11.603	ug/ml#	1
101) Parathion	11.957	109	46804	10.070	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.257	212	445526	10.874	ug/ml	98

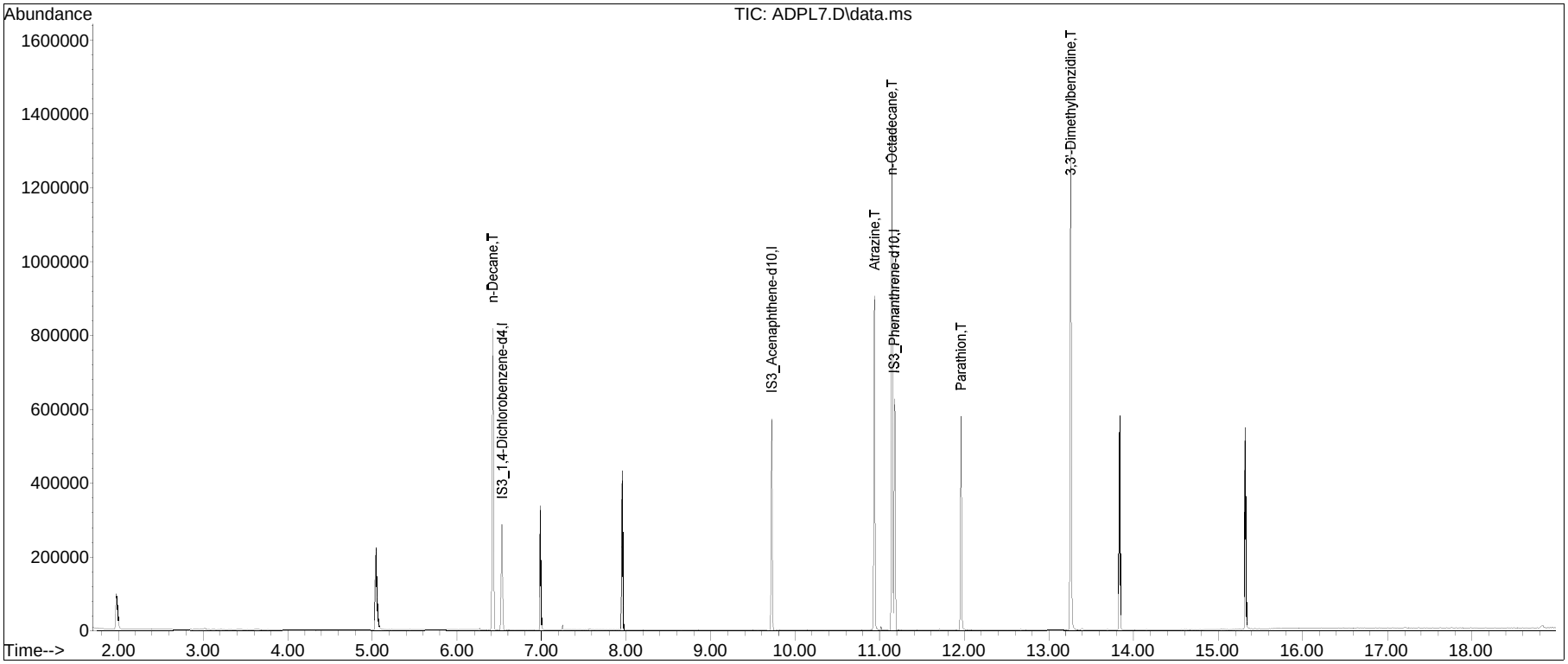
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:19 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48587	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.728	164	108359	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	11.174	188	233400	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	81218	4.576	ug/ml#	43
86) Atrazine	10.933	200	48202	5.430	ug/ml	96
100) n-Octadecane	11.139	57	115995	5.398	ug/ml#	1
101) Parathion	11.957	109	18001	4.531	ug/ml	96
102) 3,3'-Dimethylbenzidine	13.257	212	195495	5.424	ug/ml	99

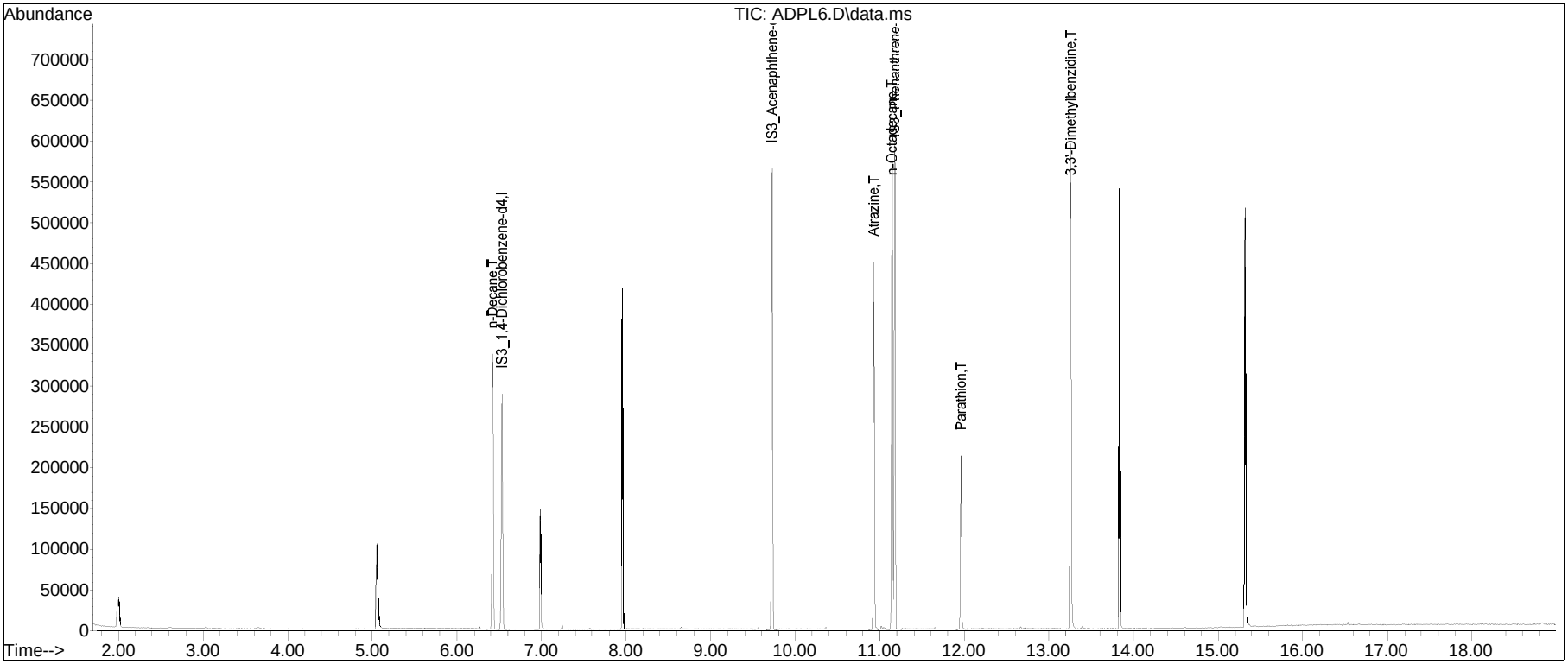
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:45 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.533	152	48599	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.02%		
85) IS3_Acenaphthene-d10	9.727	164	105030	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	96.93%		
99) IS3_Phenanthrene-d10	11.168	188	227320	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	97.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	41542	2.340	ug/ml#	44
86) Atrazine	10.933	200	21586	2.630	ug/ml	96
100) n-Octadecane	11.145	57	53141	2.539	ug/ml#	1
101) Parathion	11.957	109	7173	2.132	ug/ml	94
102) 3,3'-Dimethylbenzidine	13.257	212	77675	2.666	ug/ml	99

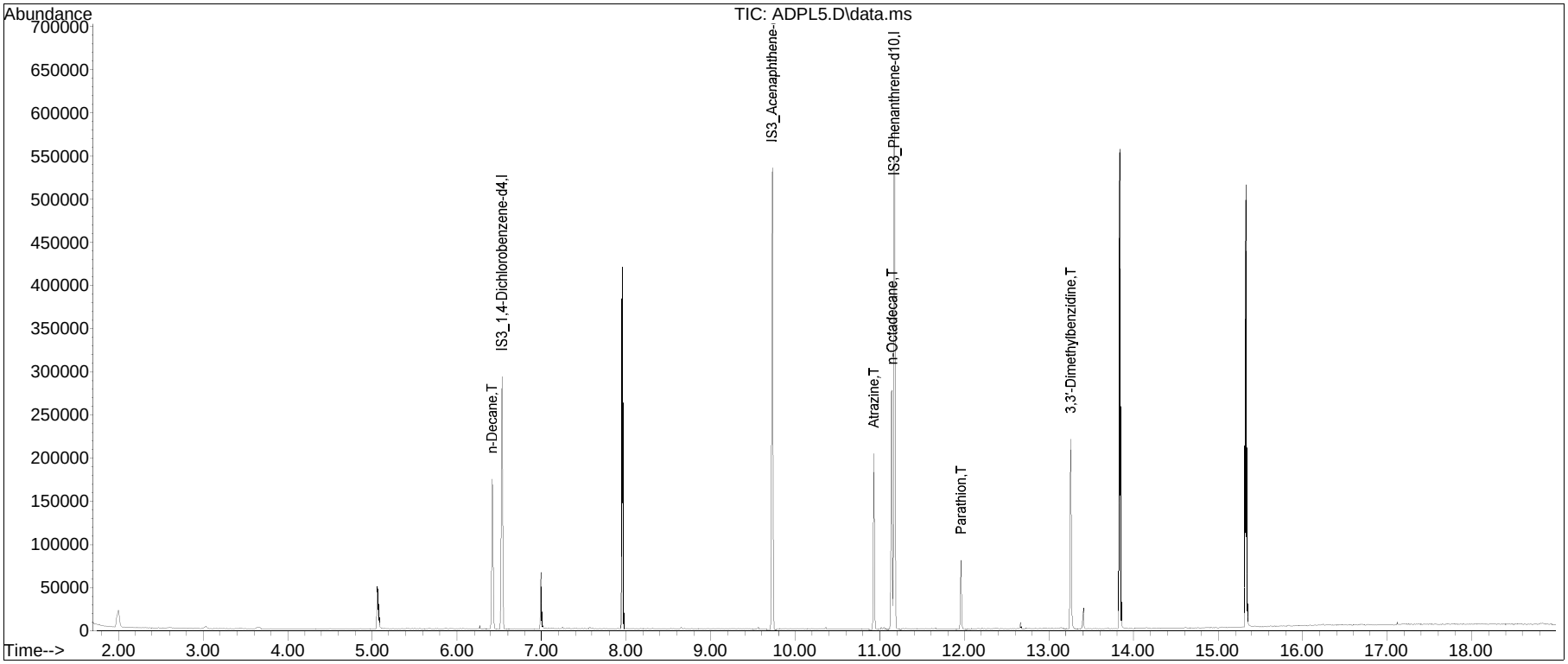
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:10 am	Instrument	: SV107
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	46933	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 96.60%			
85) IS3_Acenaphthene-d10	9.727	164	101637	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 93.80%			
99) IS3_Phenanthrene-d10	11.169	188	214729	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 92.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	17888	1.043	ug/ml#	44
86) Atrazine	10.933	200	8768	1.170	ug/ml	96
100) n-Octadecane	11.139	57	22089	1.117	ug/ml#	1
101) Parathion	11.957	109	2809	1.119	ug/ml	97
102) 3,3'-Dimethylbenzidine	13.257	212	28638	1.502	ug/ml	99

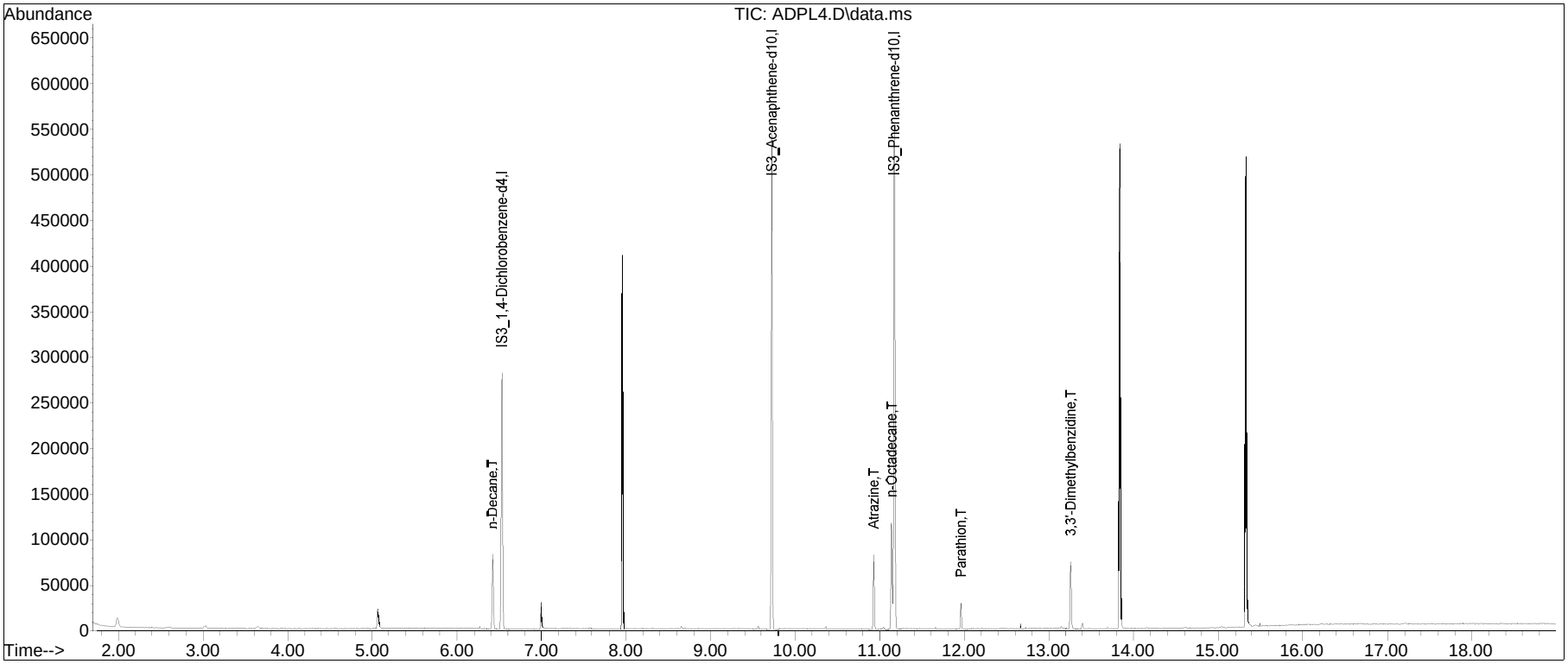
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:35 am	Instrument	: SV107
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48900	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.64%		
85) IS3_Acenaphthene-d10	9.727	164	108367	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.01%		
99) IS3_Phenanthrene-d10	11.169	188	232187	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.48%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	8935	0.500	ug/ml#	42
86) Atrazine	10.933	200	4033	0.556	ug/ml	94
100) n-Octadecane	11.139	57	10307	0.482	ug/ml#	1
101) Parathion	11.957	109	1161	0.668	ug/ml#	82
102) 3,3'-Dimethylbenzidine	13.257	212	10182	1.000	ug/ml	97

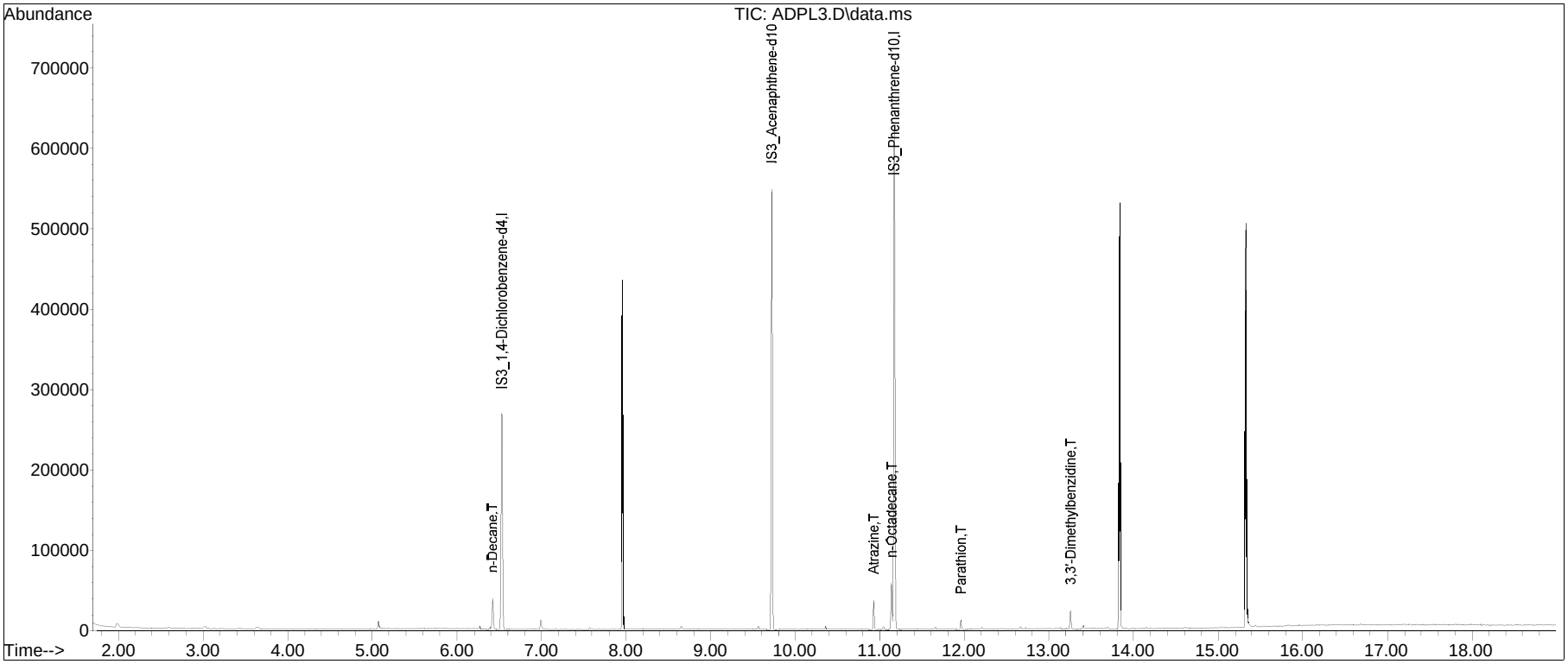
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:00 am	Instrument	: SV107
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51656	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.32%		
85) IS3_Acenaphthene-d10	9.727	164	110125	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	101.63%		
99) IS3_Phenanthrene-d10	11.169	188	232671	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	3838	0.203	ug/ml#	42
86) Atrazine	10.933	200	1581	0.267	ug/ml	92
100) n-Octadecane	11.139	57	3822	0.178	ug/ml#	1
101) Parathion	11.957	109	580	0.527	ug/ml#	80
102) 3,3'-Dimethylbenzidine	13.257	212	3243	0.833	ug/ml#	95

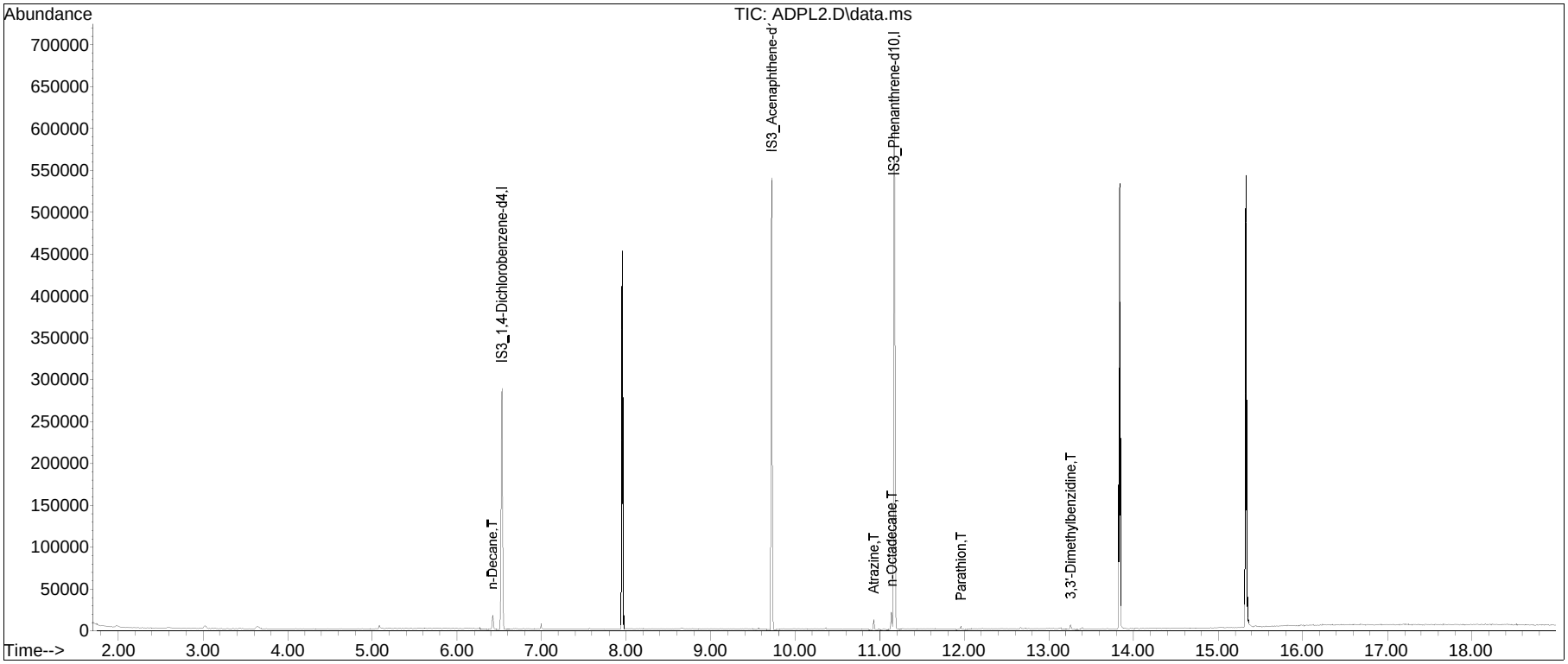
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:25 am	Instrument	: SV107
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	47913	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 98.61%			
85) IS3_Acenaphthene-d10	9.728	164	103451	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 95.47%			
99) IS3_Phenanthrene-d10	11.169	188	219717	4.000	ug/ml	# 0.00
Standard Area 2 = 233400			Recovery = 94.14%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	1821	0.104	ug/ml	# 41
86) Atrazine	10.933	200	629	0.162	ug/ml	# 33
100) n-Octadecane	11.139	57	1799	0.089	ug/ml	# 1
101) Parathion	11.951	109	154M2	0.426	ug/ml	
102) 3,3'-Dimethylbenzidine	13.257	212	1095	0.783	ug/ml	# 62

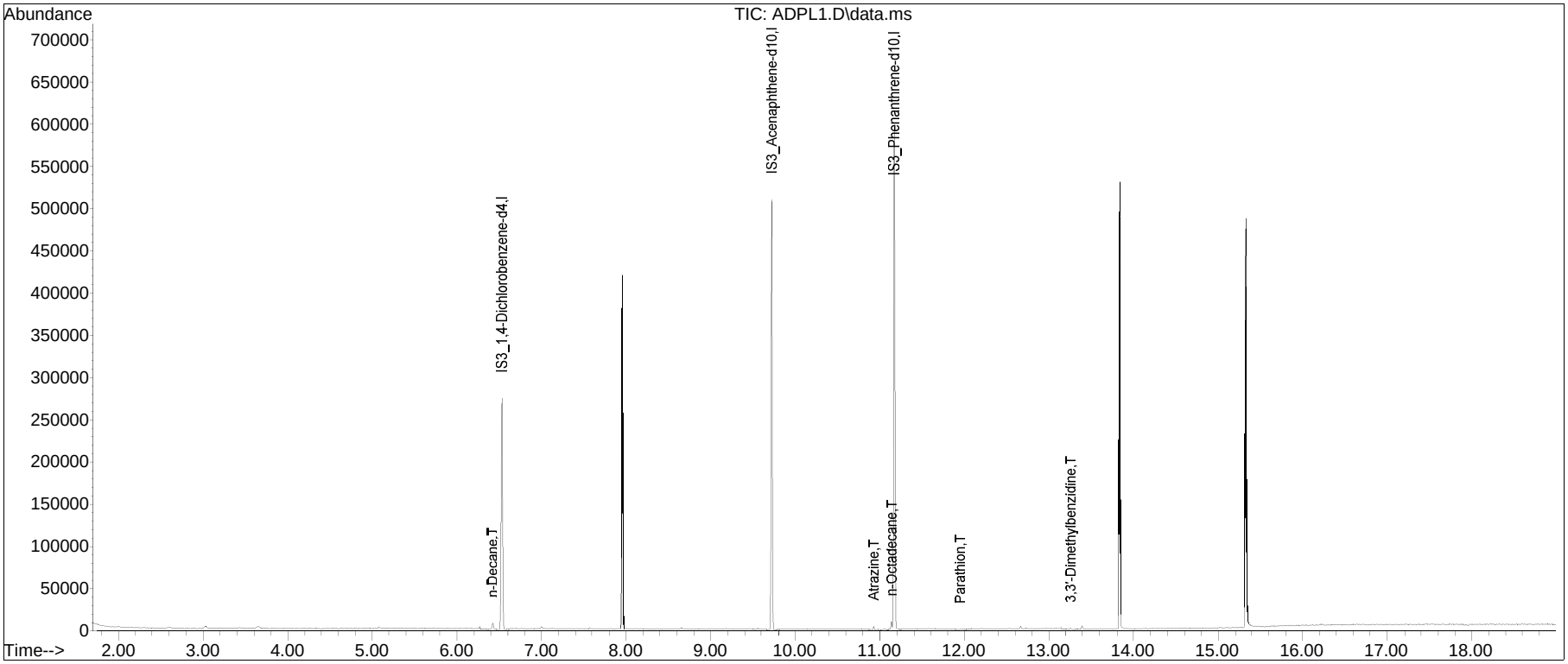
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

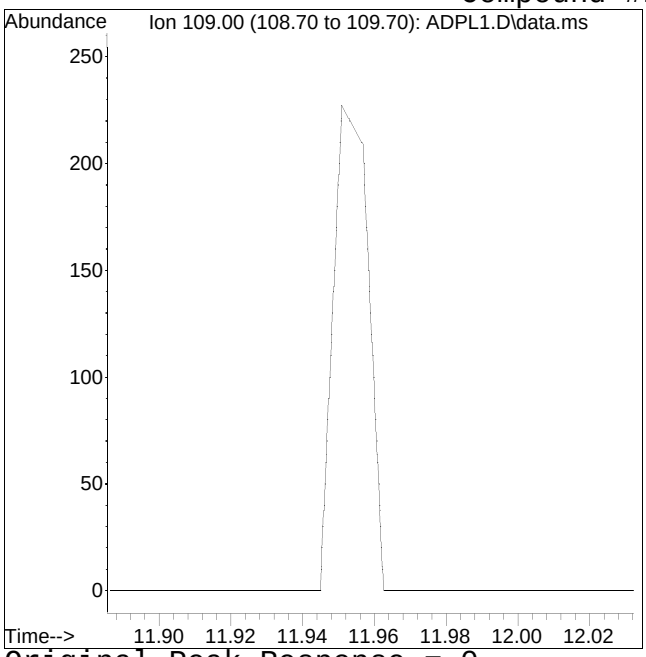
Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



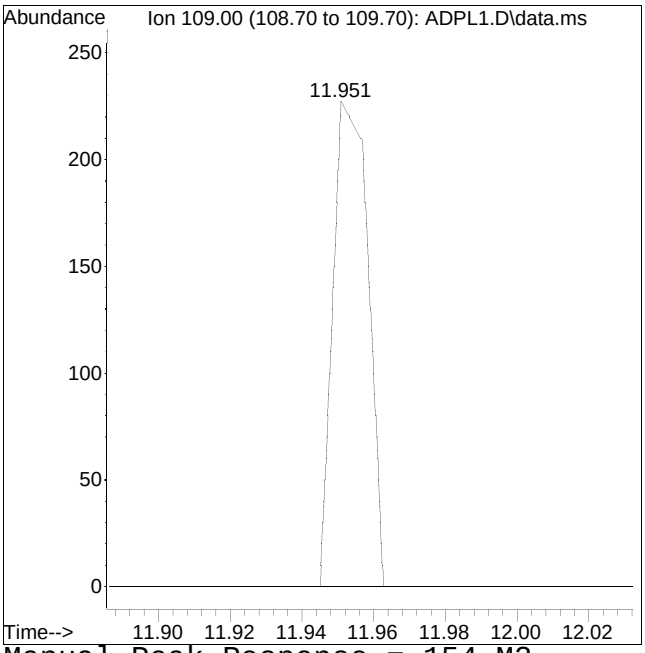
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ADPL1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 7:50 am Instrument : SV107
Sample : IL10,32,,ADPL0.1 Lot# 1071 Quant Date : 6/3/2024 10:22 am

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 154 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
33	T	n-Decane		1.447	1.410	2.6	109	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
86	T	Atrazine		0.347	0.330	4.9	97	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
100	T	n-Octadecane		0.393	0.408	-3.8	108	0.00
101	T	Parathion	*	5.000	3.951	21.0#	90	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.560	19.5	88	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	50098	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery =	103.11%			
85) IS3_Acenaphthene-d10	9.727	164	112929	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery =	104.22%			
99) IS3_Phenanthrene-d10	11.174	188	244668	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery =	104.83%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	88278	4.871	ug/ml	#	44
86) Atrazine	10.933	200	46602	4.755	ug/ml		95
100) n-Octadecane	11.139	57	124696	5.190	ug/ml	#	1
101) Parathion	11.957	109	16251	3.951	ug/ml		97
102) 3,3'-Dimethylbenzidine	13.262	212	171129	4.020	ug/ml		98

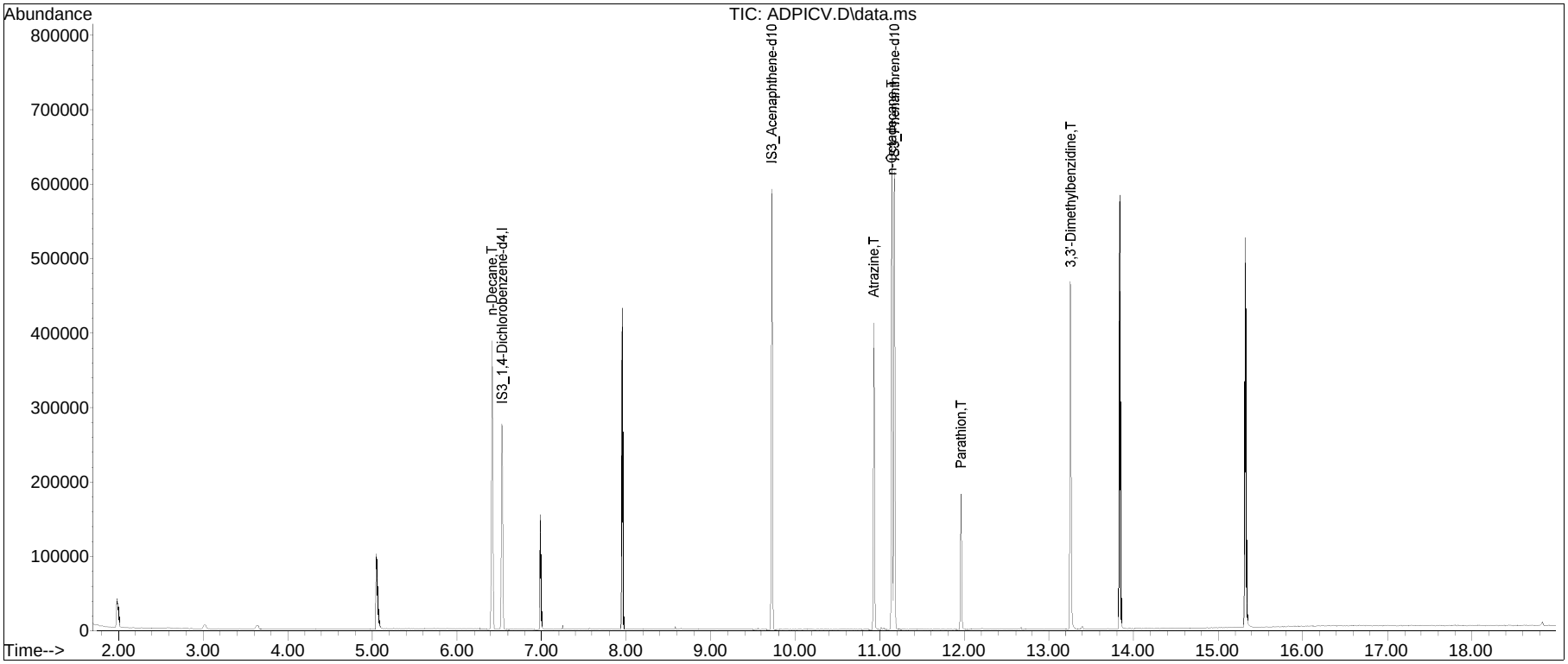
(#) = qualifier out of range (m) = manual integration (+) = signals summed

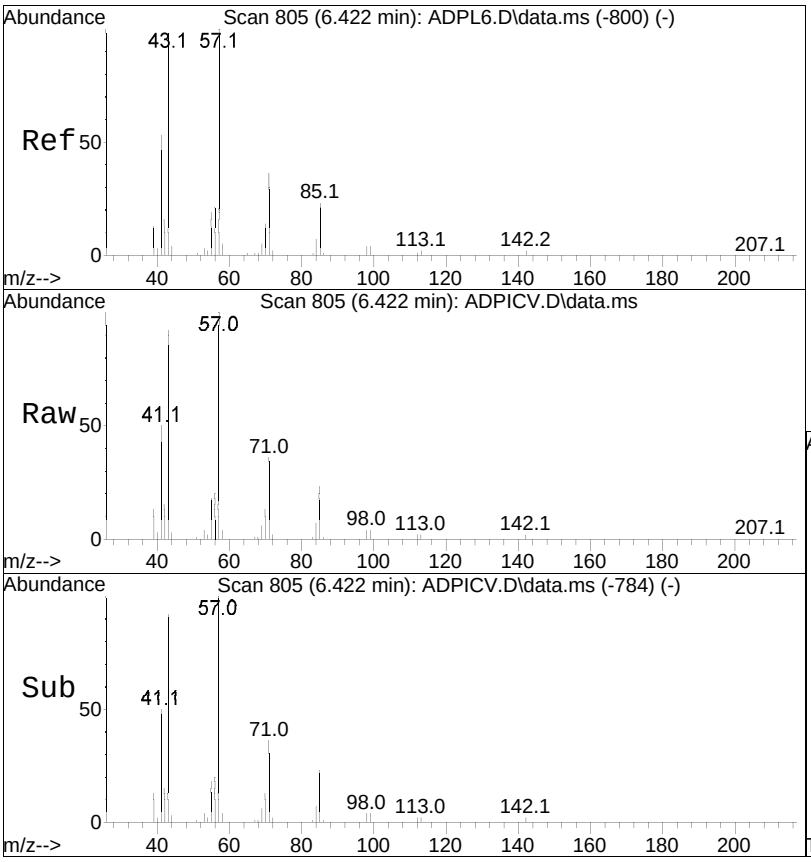
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•

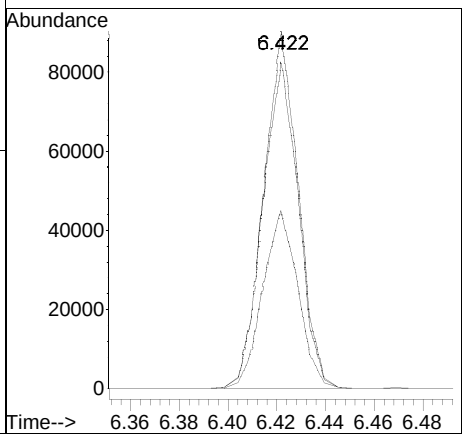


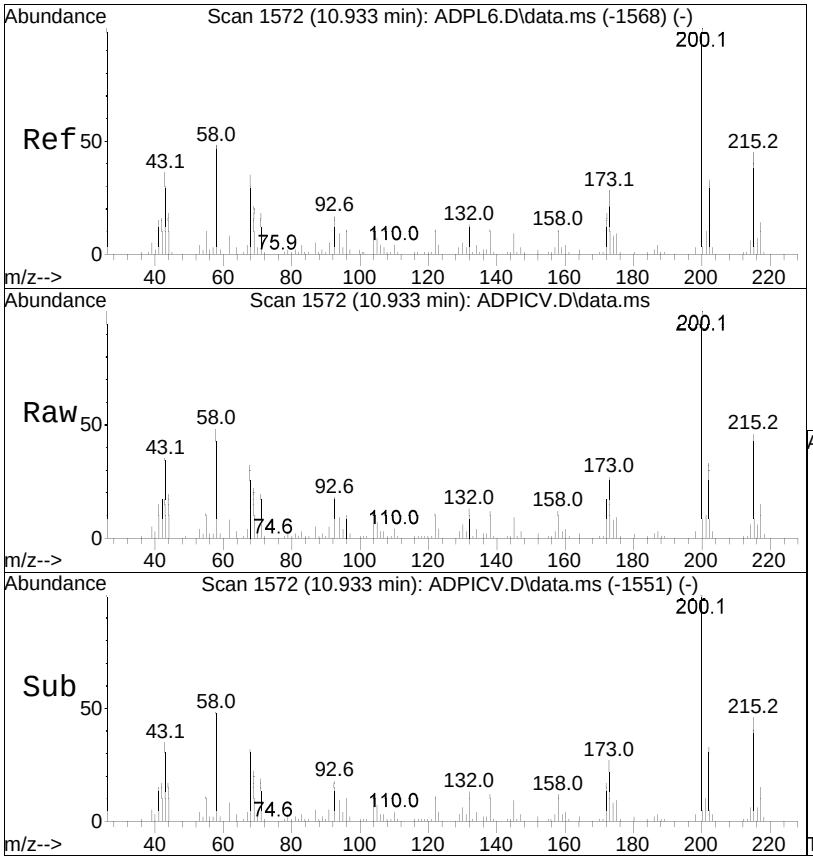


#33
n-Decane
Concen: 4.87 ug/ml
RT: 6.422 min Scan# 805
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 88278

Ion	Ratio	Lower	Upper
57	100		
43	93.8	0.2	0.2#
41	50.7	0.2	0.2#

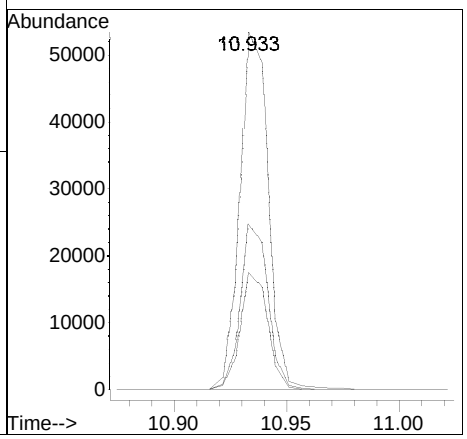


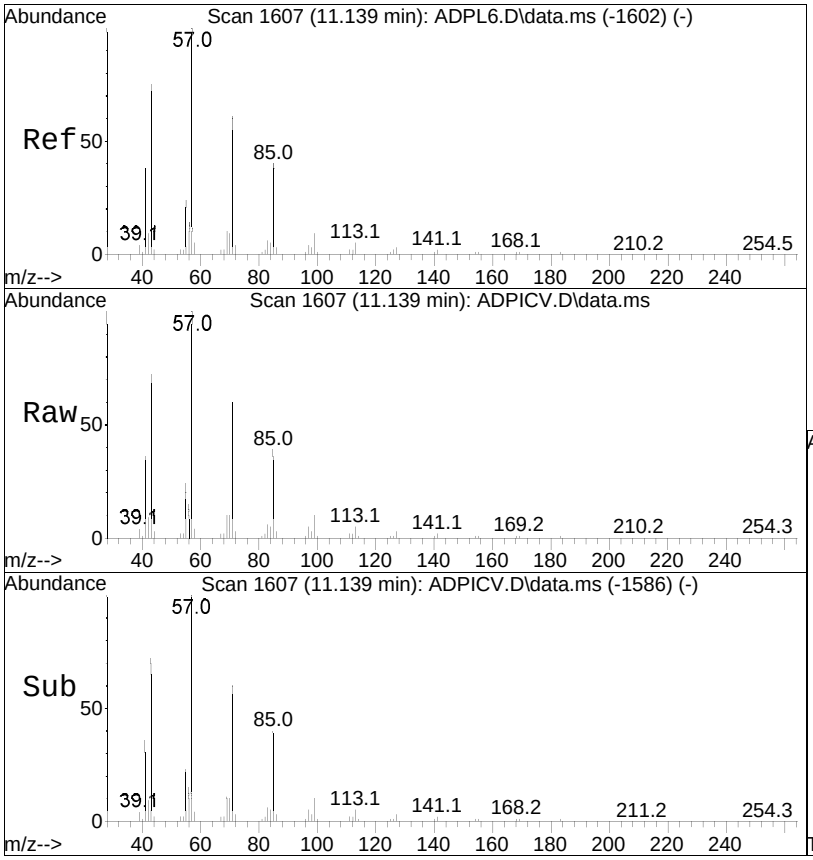


#86
Atrazine
Concen: 4.76 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:200 Resp: 46602

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	45.0	40.2	60.4

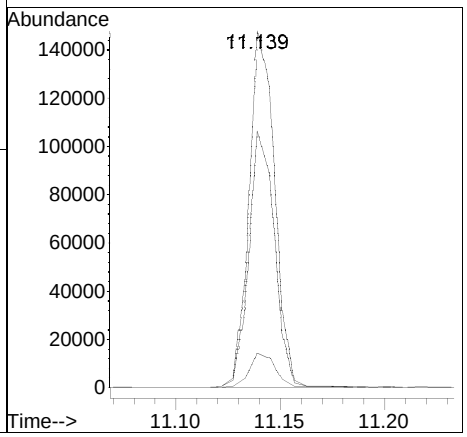


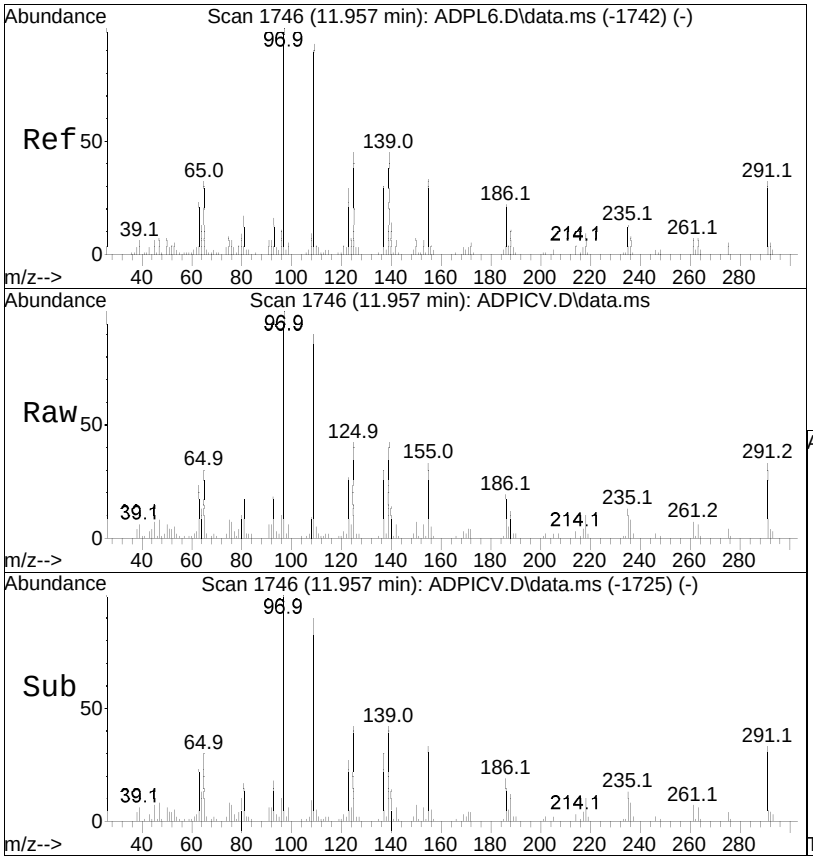


#100
n-Octadecane
Concen: 5.19 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 124696

Ion	Ratio	Lower	Upper
57	100		
43	72.2	9.0	13.6#
70	9.9	0.2	0.2#

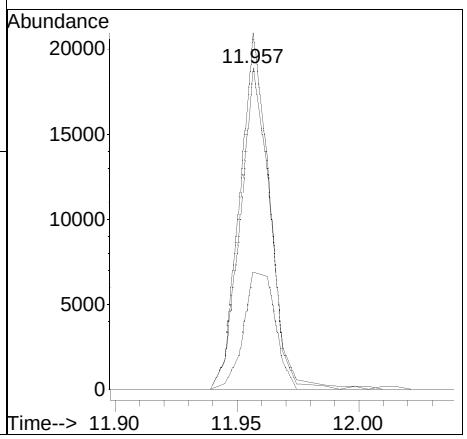


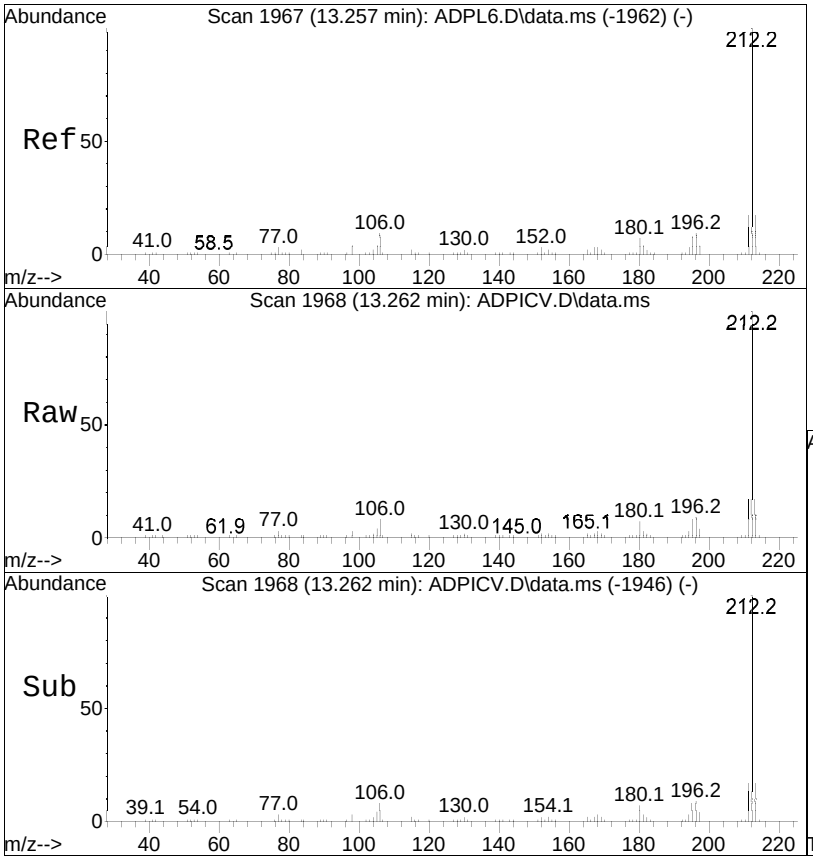


#101
Parathion
Concen: 3.95 ug/ml
RT: 11.957 min Scan# 1746
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:109 Resp: 16251

Ion	Ratio	Lower	Upper
109	100		
97	107.2	87.4	131.2
291	38.3	34.2	51.2

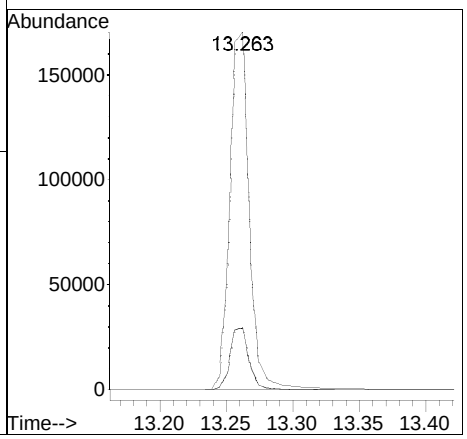




#102
3,3'-Dimethylbenzidine
Concen: 4.02 ug/ml
RT: 13.262 min Scan# 1968
Delta R.T. 0.005 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:212 Resp: 171129

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	17.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 8:15 am	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

There are no manual integrations or false positives in this file.

Evaluate Relative Error Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T Benzoic Acid	L	ug/ml	5.0	4.765	-4.7	2.50	2.683	7.3
65	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.255	-14.9	1.00	1.308	30.8
67	T 2,4-Dinitrotoluene	L	ug/ml	5.0	4.264	-14.7	0.50	0.672	34.4
75	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	3.927	-21.5	0.50	0.735	47.0
83	T Dichloran	Q	ug/ml	5.0	4.317	-13.7	1.00	1.187	18.7
84	T Pentachloronitrobenzene	Q	ug/ml	5.0	4.537	-9.3	1.00	1.124	12.4
96	T Butyl benzyl phthalate	L	ug/ml	5.0	4.159	-16.8	0.50	0.670	34.0
101	T Parathion	Q	ug/ml	5.0	4.503	-9.9	0.50	0.593	18.6
107	T Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.326	-13.5	0.20	0.285	42.5
108	T Di-n-octylphthalate	L	ug/ml	5.0	4.163	-16.7	0.50	0.659	31.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T Benzoic Acid	Linear	0.999239	0.000000	0.246525	-0.0877201
65	T 2,4-Dinitrophenol	Linear	0.992182	0.000000	0.171609	-0.0408051
67	T 2,4-Dinitrotoluene	Linear	0.994784	0.000000	0.417373	-0.0391465
75	T 4,6-Dinitro-o-cresol	Linear	0.991136	0.000000	0.230601	-0.0318046
83	T Dichloran	Quadratic	0.997786	0.004249	0.148025	-0.0234694
84	T Pentachloronitrobenzene	Quadratic	0.998992	0.002852	0.160738	-0.0192012
96	T Butyl benzyl phthalate	Linear	0.996221	0.000000	0.560774	-0.0556932
101	T Parathion	Quadratic	0.998691	0.004558	0.067987	-0.00517977
107	T Bis(2-ethylhexyl)phthalate	Linear	0.993524	0.000000	0.893249	-0.0402223
108	T Di-n-octylphthalate	Linear	0.991815	0.000000	1.53318	-0.162213

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Nitrosodimethylamine	0.704	0.76	-	-8	20	137	0
Pyridine	1.199	1.305	-	-8.8	20	141	0
2-Fluorophenol	1.069	1.124	-	-5.1	20	135	0
Aniline	1.713	1.754	-	-2.4	20	133	0
2-Chlorophenol	1.178	1.238	-	-5.1	20	136	0
Phenol-d6	1.322	1.385	-	-4.8	20	136	0
Phenol	1.438	1.504	-	-4.6	20	137	0
Bis(2-chloroethyl)ether	1.185	1.256	-	-6	20	143	0
1,3-Dichlorobenzene	1.452	1.515	-	-4.3	20	138	0
1,4-Dichlorobenzene	1.478	1.519	-	-2.8	20	136	0
1,2-Dichlorobenzene	1.426	1.476	-	-3.5	20	137	0
Benzyl alcohol	1	1.002	-	-0.2	20	131	0
Bis(2-chloroisopropyl)ethe	1.623	1.859	-	-14.5	20	154	0
2-Methylphenol	1.031	1.074	-	-4.2	20	134	0
Hexachloroethane	0.545	0.594	-	-9	20	143	0
n-Nitrosodi-n-propylamine	0.879	0.899	-	-2.3	20	134	0
3-Methylphenol/4-Methylphe	1.084	1.162	-	-7.2	20	133	0
Nitrobenzene-d5	1.165	1.35	-	-15.9	20	145	0
Nitrobenzene	1.197	1.378	-	-15.1	20	144	0
Isophorone	2.31	2.38	-	-3	20	131	0
2-Nitrophenol	0.533	0.62	-	-16.3	20	154	0
2,4-Dimethylphenol	1.088	1.144	-	-5.1	20	135	0
Bis(2-chloroethoxy)methane	1.508	1.605	-	-6.4	20	141	0
2,4-Dichlorophenol	1.094	1.163	-	-6.3	20	132	0
1,2,4-Trichlorobenzene	1.318	1.358	-	-3	20	138	0
IS1_Naphthalene-d8	1	1	-	0	20	127	0
Naphthalene	0.996	1.011	-	-1.5	20	139	0
Benzoic Acid	5	5.214	-	-4.3	20	144	0
4-Chloroaniline	0.126	0.135	-	-7.1	20	143	0
Hexachlorobutadiene	0.211	0.214	-	-1.4	20	139	0
p-Chloro-m-cresol	0.272	0.286	-	-5.1	20	132	0
2-Methylnaphthalene	0.688	0.698	-	-1.5	20	136	0
1-Methylnaphthalene	0.235	0.244	-	-3.8	20	141	0
Hexachlorocyclopentadiene	0.205	0.234	-	-14.1	20	151	0
2,4,6-Trichlorophenol	0.237	0.263	-	-11	20	138	0
2,4,5-Trichlorophenol	0.251	0.277	-	-10.4	20	137	0
2-Fluorobiphenyl	0.866	0.874	-	-0.9	20	135	0
2-Chloronaphthalene	0.715	0.745	-	-4.2	20	140	0
2-Nitroaniline	0.173	0.198	-	-14.5	20	144	0
1,4-Dinitrobenzene	0.087	0.106	-	-21.8*	20	177	0
1,3-Dinitrobenzene	0.109	0.127	-	-16.5	20	163	0
Dimethyl phthalate	0.839	0.903	-	-7.6	20	142	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.129	-	-4.6	20	137	0
2,6-Dinitrotoluene	0.153	0.185	-	-20.9*	20	148	0
1,2-Dinitrobenzene	0.068	0.083	-	-22.1*	20	150	0
IS1_Acenaphthene-d10	1	1	-	0	20	126	0
3-Nitroaniline	0.259	0.298	-	-15.1	20	146	0
Acenaphthene	1.081	1.063	-	1.7	20	137	0
2,4-Dinitrophenol	5	5.242	-	-4.8	20	164	0
Dibenzofuran	1.757	1.753	-	0.2	20	138	0
2,4-Dinitrotoluene	5	5.221	-	-4.4	20	157	0
4-Nitrophenol	0.221	0.261	-	-18.1	20	159	0
2,3,5,6-Tetrachlorophenol	0.318	0.359	-	-12.9	20	140	0
2,3,4,6-Tetrachlorophenol	0.314	0.345	-	-9.9	20	135	0
Diethyl phthalate	1.301	1.368	-	-5.1	20	144	0
Fluorene	1.328	1.354	-	-2	20	138	0
4-Chlorophenyl phenyl ethe	0.672	0.671	-	0.1	20	138	0
4-Nitroaniline	0.262	0.292	-	-11.5	20	147	0
4,6-Dinitro-o-cresol	5	5.267	-	-5.3	20	176	0
NDPA/DPA	1.131	1.184	-	-4.7	20	141	0
Azobenzene	1.259	1.33	-	-5.6	20	140	0
2,4,6-Tribromophenol	0.171	0.177	-	-3.5	20	126	0
4-Bromophenyl phenyl ether	0.376	0.376	-	0	20	137	0
Hexachlorobenzene	0.431	0.409	-	5.1	20	132	0
Pentachlorophenol	0.252	0.223	-	11.5	20	119	0
IS1_Phenanthrene-d10	1	1	-	0	20	124	0
Phenanthrene	1.038	1.073	-	-3.4	20	141	0
Anthracene	1.03	1.064	-	-3.3	20	140	0
Carbazole	0.928	0.936	-	-0.9	20	133	0
Di-n-butylphthalate	1.088	1.092	-	-0.4	20	130	0
Fluoranthene	1.186	1.176	-	0.8	20	134	0
Benzidine	0.721	0.666	-	7.6	20	123	0
Pyrene	1.269	1.307	-	-3	20	140	0
4-Terphenyl-d14	0.875	0.849	-	3	20	132	0
Butyl benzyl phthalate	5	4.245	-	15.1	20	127	0
IS1_Chrysene-d12	1	1	-	0	20	113	0
Benzo(a)anthracene	1.335	1.336	-	-0.1	20	124	0
3,3'-Dichlorobenzidine	0.43	0.451	-	-4.9	20	118	0
Chrysene	1.276	1.314	-	-3	20	128	0
Bis(2-ethylhexyl)phthalate	5	4.579	-	8.4	20	120	0
Di-n-octylphthalate	5	4.236	-	15.3	20	115	0
Benzo(b)fluoranthene	1.178	1.282	-	-8.8	20	131	0
Benzo(k)fluoranthene	1.154	1.111	-	3.7	20	114	0
Benzo(a)pyrene	1.025	1.073	-	-4.7	20	124	0
IS1_Perylene-d12	1	1	-	0	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.042	-	-9.5	20	126	0
Dibenzo(a,h)anthracene	0.953	1.017	-	-6.7	20	113	0
Benzo(ghi)perylene	0.928	1.01	-	-8.8	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 13:10		
Lab File ID	: AP90620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	141	0
Benzaldehyde	1.024	1.068	-	-4.3	20	156	0
Acetophenone	1.77	1.845	-	-4.2	20	152	0
m-Toluidine	1.599	1.83	-	-14.4	20	157	0
2-Chloroaniline	1.546	1.673	-	-8.2	20	156	0
IS2_Naphthalene-d8	1	1	-	0	20	137	0
a-Terpineol	0.276	0.312	-	-13	20	165	0
3-Chloroaniline	0.147	0.168	-	-14.3	20	165	0
2,6-Dichlorophenol	0.29	0.332	-	-14.5	20	162	0
1-chloro-2-nitrobenzene	0.121	0.154	-	-27.3*	20	189	0
Caprolactam	0.149	0.168	-	-12.8	20	162	0
1,2,4,5-Tetrachlorobenzene	0.402	0.428	-	-6.5	20	159	0
Biphenyl	0.929	1.015	-	-9.3	20	163	0
IS2_Acenaphthene-d10	1	1	-	0	20	147	0
Dichloran	5	6.381	-	-27.6*	20	233	0
Pentachloronitrobenzene	5	6.355	-	-27.1*	20	214	0
IS2_Phenanthrene-d10	1	1	-	0	20	152	0
Diphenamid	0.445	0.472	-	-6.1	20	166	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 13:36		
Lab File ID	: ADP0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	119	0
n-Decane	1.447	1.393	-	3.7	20	124	0
IS3_Acenaphthene-d10	1	1	-	0	20	122	0
Atrazine	0.347	0.36	-	-3.7	20	123	0
IS3_Phenanthrene-d10	1	1	-	0	20	126	0
n-Octadecane	0.393	0.406	-	-3.3	20	129	0
Parathion	5	4.974	-	0.5	20	141	0
3,3'-Dimethylbenzidine	0.696	0.556	-	20.1*	20	105	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Nitrosodimethylamine	0.704	0.818	-	-16.2	20	147	0
Pyridine	1.199	1.281	-	-6.8	20	138	0
2-Fluorophenol	1.069	1.187	-	-11	20	142	0
Aniline	1.713	1.636	-	4.5	20	125	0
2-Chlorophenol	1.178	1.237	-	-5	20	137	0
Phenol-d6	1.322	1.456	-	-10.1	20	143	0
Phenol	1.438	1.55	-	-7.8	20	142	0
Bis(2-chloroethyl)ether	1.185	1.227	-	-3.5	20	140	0
1,3-Dichlorobenzene	1.452	1.471	-	-1.3	20	134	0
1,4-Dichlorobenzene	1.478	1.506	-	-1.9	20	135	0
1,2-Dichlorobenzene	1.426	1.435	-	-0.6	20	133	0
Benzyl alcohol	1	1.017	-	-1.7	20	133	0
Bis(2-chloroisopropyl)ethe	1.623	1.878	-	-15.7	20	155	0
2-Methylphenol	1.031	1.026	-	0.5	20	129	0
Hexachloroethane	0.545	0.571	-	-4.8	20	137	0
n-Nitrosodi-n-propylamine	0.879	0.89	-	-1.3	20	132	0
3-Methylphenol/4-Methylphe	1.084	1.105	-	-1.9	20	127	0
Nitrobenzene-d5	1.165	1.308	-	-12.3	20	141	0
Nitrobenzene	1.197	1.313	-	-9.7	20	138	0
Isophorone	2.31	2.28	-	1.3	20	126	0
2-Nitrophenol	0.533	0.589	-	-10.5	20	147	0
2,4-Dimethylphenol	1.088	0.719	-	33.9*	20	85	0
Bis(2-chloroethoxy)methane	1.508	1.519	-	-0.7	20	134	0
2,4-Dichlorophenol	1.094	1.1	-	-0.5	20	125	0
1,2,4-Trichlorobenzene	1.318	1.267	-	3.9	20	129	0
IS1_Naphthalene-d8	1	1	-	0	20	124	0
Naphthalene	0.996	0.991	-	0.5	20	133	0
Benzoic Acid	5	5.836	-	-16.7	20	164	0
4-Chloroaniline	0.126	0.128	-	-1.6	20	132	0
Hexachlorobutadiene	0.211	0.195	-	7.6	20	124	0
p-Chloro-m-cresol	0.272	0.277	-	-1.8	20	125	0
2-Methylnaphthalene	0.688	0.656	-	4.7	20	124	0
1-Methylnaphthalene	0.235	0.228	-	3	20	128	0
Hexachlorocyclopentadiene	0.205	0.175	-	14.6	20	110	0
2,4,6-Trichlorophenol	0.237	0.23	-	3	20	118	0
2,4,5-Trichlorophenol	0.251	0.256	-	-2	20	124	0
2-Fluorobiphenyl	0.866	0.802	-	7.4	20	121	0
2-Chloronaphthalene	0.715	0.67	-	6.3	20	123	0
2-Nitroaniline	0.173	0.187	-	-8.1	20	133	0
1,4-Dinitrobenzene	0.087	0.091	-	-4.6	20	149	0
1,3-Dinitrobenzene	0.109	0.11	-	-0.9	20	137	0
Dimethyl phthalate	0.839	0.798	-	4.9	20	122	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.067	-	1.1	20	126	0
2,6-Dinitrotoluene	0.153	0.161	-	-5.2	20	125	0
1,2-Dinitrobenzene	0.068	0.071	-	-4.4	20	127	0
IS1_Acenaphthene-d10	1	1	-	0	20	114	0
3-Nitroaniline	0.259	0.3	-	-15.8	20	133	0
Acenaphthene	1.081	1.041	-	3.7	20	122	0
2,4-Dinitrophenol	5	5.483	-	-9.7	20	156	0
Dibenzofuran	1.757	1.682	-	4.3	20	119	0
2,4-Dinitrotoluene	5	4.927	-	1.5	20	133	0
4-Nitrophenol	0.221	0.263	-	-19	20	144	0
2,3,5,6-Tetrachlorophenol	0.318	0.32	-	-0.6	20	113	0
2,3,4,6-Tetrachlorophenol	0.314	0.32	-	-1.9	20	113	0
Diethyl phthalate	1.301	1.264	-	2.8	20	120	0
Fluorene	1.328	1.301	-	2	20	120	0
4-Chlorophenyl phenyl ethe	0.672	0.63	-	6.3	20	117	0
4-Nitroaniline	0.262	0.284	-	-8.4	20	129	0
4,6-Dinitro-o-cresol	5	5.118	-	-2.4	20	154	0
NDPA/DPA	1.131	1.117	-	1.2	20	120	0
Azobenzene	1.259	1.317	-	-4.6	20	125	0
2,4,6-Tribromophenol	0.171	0.152	-	11.1	20	98	0
4-Bromophenyl phenyl ether	0.376	0.322	-	14.4	20	106	0
Hexachlorobenzene	0.431	0.335	-	22.3*	20	98	0
Pentachlorophenol	0.252	0.221	-	12.3	20	106	0
IS1_Phenanthrene-d10	1	1	-	0	20	110	0
Phenanthrene	1.038	1.008	-	2.9	20	117	0
Anthracene	1.03	1.004	-	2.5	20	117	0
Carbazole	0.928	0.92	-	0.9	20	115	0
Di-n-butylphthalate	1.088	1.047	-	3.8	20	110	0
Fluoranthene	1.186	1.09	-	8.1	20	109	0
Benzidine	0.721	0.548	-	24*	20	89	0
Pyrene	1.269	1.18	-	7	20	111	0
4-Terphenyl-d14	0.875	0.761	-	13	20	104	0
Butyl benzyl phthalate	5	4.358	-	12.8	20	116	0
IS1_Chrysene-d12	1	1	-	0	20	99	0
Benzo(a)anthracene	1.335	1.295	-	3	20	105	0
3,3'-Dichlorobenzidine	0.43	0.448	-	-4.2	20	103	0
Chrysene	1.276	1.287	-	-0.9	20	110	0
Bis(2-ethylhexyl)phthalate	5	4.913	-	1.7	20	113	0
Di-n-octylphthalate	5	4.826	-	3.5	20	117	0
Benzo(b)fluoranthene	1.178	1.236	-	-4.9	20	111	0
Benzo(k)fluoranthene	1.154	1.18	-	-2.3	20	106	0
Benzo(a)pyrene	1.025	1.097	-	-7	20	111	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.073	-	-12.7	20	119	0
Dibenzo(a,h)anthracene	0.953	1.039	-	-9	20	107	0
Benzo(ghi)perylene	0.928	1.005	-	-8.3	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:25		
Lab File ID	: AP90620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	146	0
Benzaldehyde	1.024	1.034	-	-1	20	157	0
Acetophenone	1.77	1.745	-	1.4	20	149	0
m-Toluidine	1.599	1.735	-	-8.5	20	154	0
2-Chloroaniline	1.546	1.545	-	0.1	20	150	0
IS2_Naphthalene-d8	1	1	-	0	20	139	0
a-Terpineol	0.276	0.307	-	-11.2	20	165	0
3-Chloroaniline	0.147	0.159	-	-8.2	20	158	0
2,6-Dichlorophenol	0.29	0.307	-	-5.9	20	152	0
1-chloro-2-nitrobenzene	0.121	0.138	-	-14	20	172	0
Caprolactam	0.149	0.158	-	-6	20	155	0
1,2,4,5-Tetrachlorobenzene	0.402	0.37	-	8	20	139	0
Biphenyl	0.929	0.867	-	6.7	20	141	0
IS2_Acenaphthene-d10	1	1	-	0	20	133	0
Dichloran	5	5.27	-	-5.4	20	169	0
Pentachloronitrobenzene	5	5.112	-	-2.2	20	152	0
IS2_Phenanthrene-d10	1	1	-	0	20	125	0
Diphenamid	0.445	0.448	-	-0.7	20	129	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:51		
Lab File ID	: ADP0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	140	0
n-Decane	1.447	1.397	-	3.5	20	146	0
IS3_Acenaphthene-d10	1	1	-	0	20	124	0
Atrazine	0.347	0.289	-	16.7	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	116	0
n-Octadecane	0.393	0.398	-	-1.3	20	116	0
Parathion	5	4.577	-	8.5	20	118	0
3,3'-Dimethylbenzidine	0.696	0.458	-	34.2*	20	79	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	128	0
n-Nitrosodimethylamine	0.704	0.777	-	-10.4	20	144	0
Pyridine	1.199	1.324	-	-10.4	20	147	0
2-Fluorophenol	1.069	1.129	-	-5.6	20	139	0
Aniline	1.713	1.797	-	-4.9	20	141	0
2-Chlorophenol	1.178	1.23	-	-4.4	20	140	0
Phenol-d6	1.322	1.417	-	-7.2	20	143	0
Phenol	1.438	1.53	-	-6.4	20	144	0
Bis(2-chloroethyl)ether	1.185	1.254	-	-5.8	20	147	0
1,3-Dichlorobenzene	1.452	1.521	-	-4.8	20	143	0
1,4-Dichlorobenzene	1.478	1.54	-	-4.2	20	142	0
1,2-Dichlorobenzene	1.426	1.48	-	-3.8	20	141	0
Benzyl alcohol	1	1.035	-	-3.5	20	139	0
Bis(2-chloroisopropyl)ethe	1.623	1.863	-	-14.8	20	158	0
2-Methylphenol	1.031	1.072	-	-4	20	138	0
Hexachloroethane	0.545	0.588	-	-7.9	20	145	0
n-Nitrosodi-n-propylamine	0.879	0.949	-	-8	20	145	0
3-Methylphenol/4-Methylphe	1.084	1.184	-	-9.2	20	140	0
Nitrobenzene-d5	1.165	1.374	-	-17.9	20	152	0
Nitrobenzene	1.197	1.38	-	-15.3	20	148	0
Isophorone	2.31	2.442	-	-5.7	20	139	0
2-Nitrophenol	0.533	0.635	-	-19.1	20	163	0
2,4-Dimethylphenol	1.088	1.147	-	-5.4	20	139	0
Bis(2-chloroethoxy)methane	1.508	1.606	-	-6.5	20	146	0
2,4-Dichlorophenol	1.094	1.219	-	-11.4	20	143	0
1,2,4-Trichlorobenzene	1.318	1.369	-	-3.9	20	143	0
IS1_Naphthalene-d8	1	1	-	0	20	130	0
Naphthalene	0.996	1.023	-	-2.7	20	144	0
Benzoic Acid	5	5.898	-	-18	20	175	0
4-Chloroaniline	0.126	0.135	-	-7.1	20	148	0
Hexachlorobutadiene	0.211	0.217	-	-2.8	20	145	0
p-Chloro-m-cresol	0.272	0.294	-	-8.1	20	140	0
2-Methylnaphthalene	0.688	0.691	-	-0.4	20	138	0
1-Methylnaphthalene	0.235	0.244	-	-3.8	20	145	0
Hexachlorocyclopentadiene	0.205	0.226	-	-10.2	20	150	0
2,4,6-Trichlorophenol	0.237	0.255	-	-7.6	20	137	0
2,4,5-Trichlorophenol	0.251	0.277	-	-10.4	20	141	0
2-Fluorobiphenyl	0.866	0.868	-	-0.2	20	138	0
2-Chloronaphthalene	0.715	0.731	-	-2.2	20	141	0
2-Nitroaniline	0.173	0.204	-	-17.9	20	152	0
1,4-Dinitrobenzene	0.087	0.11	-	-26.4*	20	189	0
1,3-Dinitrobenzene	0.109	0.125	-	-14.7	20	165	0
Dimethyl phthalate	0.839	0.873	-	-4.1	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.12	-	-3.8	20	139	0
2,6-Dinitrotoluene	0.153	0.181	-	-18.3	20	148	0
1,2-Dinitrobenzene	0.068	0.081	-	-19.1	20	151	0
IS1_Acenaphthene-d10	1	1	-	0	20	125	0
3-Nitroaniline	0.259	0.324	-	-25.1*	20	157	0
Acenaphthene	1.081	1.085	-	-0.4	20	139	0
2,4-Dinitrophenol	5	6.058	-	-21.2*	20	193	0
Dibenzofuran	1.757	1.795	-	-2.2	20	140	0
2,4-Dinitrotoluene	5	5.325	-	-6.5	20	159	0
4-Nitrophenol	0.221	0.281	-	-27.1*	20	169	0
2,3,5,6-Tetrachlorophenol	0.318	0.369	-	-16	20	143	0
2,3,4,6-Tetrachlorophenol	0.314	0.351	-	-11.8	20	136	0
Diethyl phthalate	1.301	1.397	-	-7.4	20	146	0
Fluorene	1.328	1.387	-	-4.4	20	140	0
4-Chlorophenyl phenyl ethe	0.672	0.681	-	-1.3	20	138	0
4-Nitroaniline	0.262	0.313	-	-19.5	20	156	0
4,6-Dinitro-o-cresol	5	5.726	-	-14.5	20	191	0
NDPA/DPA	1.131	1.2	-	-6.1	20	142	0
Azobenzene	1.259	1.383	-	-9.8	20	144	0
2,4,6-Tribromophenol	0.171	0.18	-	-5.3	20	127	0
4-Bromophenyl phenyl ether	0.376	0.375	-	0.3	20	135	0
Hexachlorobenzene	0.431	0.402	-	6.7	20	129	0
Pentachlorophenol	0.252	0.264	-	-4.8	20	139	0
IS1_Phenanthrene-d10	1	1	-	0	20	125	0
Phenanthrene	1.038	1.076	-	-3.7	20	143	0
Anthracene	1.03	1.064	-	-3.3	20	141	0
Carbazole	0.928	0.982	-	-5.8	20	140	0
Di-n-butylphthalate	1.088	1.128	-	-3.7	20	136	0
Fluoranthene	1.186	1.233	-	-4	20	142	0
Benzidine	0.721	0.699	-	3.1	20	130	0
Pyrene	1.269	1.321	-	-4.1	20	143	0
4-Terphenyl-d14	0.875	0.856	-	2.2	20	134	0
Butyl benzyl phthalate	5	4.635	-	7.3	20	141	0
IS1_Chrysene-d12	1	1	-	0	20	121	0
Benzo(a)anthracene	1.335	1.366	-	-2.3	20	136	0
3,3'-Dichlorobenzidine	0.43	0.47	-	-9.3	20	132	0
Chrysene	1.276	1.306	-	-2.4	20	136	0
Bis(2-ethylhexyl)phthalate	5	4.917	-	1.7	20	138	0
Di-n-octylphthalate	5	4.954	-	0.9	20	147	0
Benzo(b)fluoranthene	1.178	1.303	-	-10.6	20	142	0
Benzo(k)fluoranthene	1.154	1.185	-	-2.7	20	130	0
Benzo(a)pyrene	1.025	1.142	-	-11.4	20	141	0
IS1_Perylene-d12	1	1	-	0	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.06	-	-11.3	20	140	0
Dibenzo(a,h)anthracene	0.953	1.101	-	-15.5	20	134	0
Benzo(ghi)perylene	0.928	1.058	-	-14	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:51		
Lab File ID	: AP90621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	143	0
Benzaldehyde	1.024	1.071	-	-4.6	20	160	0
Acetophenone	1.77	1.88	-	-6.2	20	158	0
m-Toluidine	1.599	1.825	-	-14.1	20	160	0
2-Chloroaniline	1.546	1.674	-	-8.3	20	159	0
IS2_Naphthalene-d8	1	1	-	0	20	138	0
a-Terpineol	0.276	0.32	-	-15.9	20	171	0
3-Chloroaniline	0.147	0.17	-	-15.6	20	168	0
2,6-Dichlorophenol	0.29	0.334	-	-15.2	20	164	0
1-chloro-2-nitrobenzene	0.121	0.156	-	-28.9*	20	193	0
Caprolactam	0.149	0.174	-	-16.8	20	169	0
1,2,4,5-Tetrachlorobenzene	0.402	0.409	-	-1.7	20	153	0
Biphenyl	0.929	0.987	-	-6.2	20	159	0
IS2_Acenaphthene-d10	1	1	-	0	20	143	0
Dichloran	5	6.179	-	-23.6*	20	219	0
Pentachloronitrobenzene	5	5.861	-	-17.2	20	191	0
IS2_Phenanthrene-d10	1	1	-	0	20	141	0
Diphenamid	0.445	0.505	-	-13.5	20	165	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 16:17		
Lab File ID	: ADP0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Decane	1.447	1.457	-	-0.7	20	135	0
IS3_Acenaphthene-d10	1	1	-	0	20	123	0
Atrazine	0.347	0.363	-	-4.6	20	125	0
IS3_Phenanthrene-d10	1	1	-	0	20	121	0
n-Octadecane	0.393	0.428	-	-8.9	20	130	0
Parathion	5	5.328	-	-6.6	20	147	0
3,3'-Dimethylbenzidine	0.696	0.588	-	15.5	20	106	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620RVT\
Data File : ABN0620.D
Acq On : 20 Jun 2024 12:44 pm
Operator : SV107:mrg
Sample : WG1937154-3,32,,ABN 10777 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 20 13:41:58 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:42:26 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	124	0.00
2	t	n-Nitrosodimethylamine		0.704	0.760	-8.0	137	0.00
3	t	Pyridine		1.199	1.305	-8.8	141	0.00
4	S	2-Fluorophenol		1.069	1.124	-5.1	135	0.00
5	T	Aniline		1.713	1.754	-2.4	133	0.00
6	t	2-Chlorophenol		1.178	1.238	-5.1	136	0.00
7	S	Phenol-d6		1.322	1.385	-4.8	136	0.00
8	T	Phenol		1.438	1.504	-4.6	137	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.256	-6.0	143	0.00
10	T	1,3-Dichlorobenzene		1.452	1.515	-4.3	138	0.00
11	T	1,4-Dichlorobenzene		1.478	1.519	-2.8	136	0.00
12	T	1,2-Dichlorobenzene		1.426	1.476	-3.5	137	0.00
13	t	Benzyl alcohol		1.000	1.002	-0.2	131	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.859	-14.5	154	0.00
15	T	2-Methylphenol		1.031	1.074	-4.2	134	0.00
16	T	Hexachloroethane		0.545	0.594	-9.0	143	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.899	-2.3	134	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.162	-7.2	133	0.00
19	S	Nitrobenzene-d5		1.165	1.350	-15.9	145	0.00
20	T	Nitrobenzene		1.197	1.378	-15.1	144	0.00
21	T	Isophorone		2.310	2.380	-3.0	131	0.00
22	T	2-Nitrophenol		0.533	0.620	-16.3	154	0.00
23	T	2,4-Dimethylphenol		1.088	1.144	-5.1	135	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.605	-6.4	141	0.00
25	T	2,4-Dichlorophenol		1.094	1.163	-6.3	132	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.358	-3.0	138	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	127	0.00
35	T	Naphthalene		0.996	1.011	-1.5	139	0.00
36	T	Benzoic Acid	*	5.000	5.214	-4.3	144	0.00
37	T	4-Chloroaniline		0.126	0.135	-7.1	143	0.00
38	T	Hexachlorobutadiene		0.211	0.214	-1.4	139	0.00
39	T	p-Chloro-m-cresol		0.272	0.286	-5.1	132	0.00
40	T	2-Methylnaphthalene		0.688	0.698	-1.5	136	0.00
41	T	1-Methylnaphthalene		0.235	0.244	-3.8	141	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.234	-14.1	151	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.263	-11.0	138	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.277	-10.4	137	0.00
45	S	2-Fluorobiphenyl		0.866	0.874	-0.9	135	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620RVT\
Data File : ABN0620.D
Acq On : 20 Jun 2024 12:44 pm
Operator : SV107:mrg
Sample : WG1937154-3,32,,ABN 10777 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 20 13:41:58 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:42:26 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.745	-4.2	140	0.00
47	T	2-Nitroaniline		0.173	0.198	-14.5	144	0.00
48	T	1,4-Dinitrobenzene		0.087	0.106	-21.8#	177	0.00
49	T	1,3-Dinitrobenzene		0.109	0.127	-16.5	163	0.00
50	T	Dimethyl phthalate		0.839	0.903	-7.6	142	0.00
51	T	Acenaphthylene		1.079	1.129	-4.6	137	0.00
52	T	2,6-Dinitrotoluene		0.153	0.185	-20.9#	148	0.00
53	T	1,2-Dinitrobenzene		0.068	0.083	-22.1#	150	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	126	0.00
63	T	3-Nitroaniline		0.259	0.298	-15.1	146	0.00
64	T	Acenaphthene		1.081	1.063	1.7	137	0.00
65	T	2,4-Dinitrophenol	*	5.000	5.242	-4.8	164	0.00
66	T	Dibenzofuran		1.757	1.753	0.2	138	0.00
67	T	2,4-Dinitrotoluene	*	5.000	5.221	-4.4	157	0.00
68	T	4-Nitrophenol		0.221	0.261	-18.1	159	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.359	-12.9	140	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.345	-9.9	135	0.00
71	T	Diethyl phthalate		1.301	1.368	-5.1	144	0.00
72	T	Fluorene		1.328	1.354	-2.0	138	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.671	0.1	138	0.00
74	T	4-Nitroaniline		0.262	0.292	-11.5	147	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	5.267	-5.3	176	0.00
76	T	NDPA/DPA		1.131	1.184	-4.7	141	0.00
77	T	Azobenzene		1.259	1.330	-5.6	140	0.00
78	S	2,4,6-Tribromophenol		0.171	0.177	-3.5	126	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.376	0.0	137	0.00
80	T	Hexachlorobenzene		0.431	0.409	5.1	132	0.00
81	T	Pentachlorophenol		0.252	0.223	11.5	119	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	124	0.00
88	T	Phenanthrene		1.038	1.073	-3.4	141	0.00
89	T	Anthracene		1.030	1.064	-3.3	140	0.00
90	T	Carbazole		0.928	0.936	-0.9	133	0.00
91	T	Di-n-butylphthalate		1.088	1.092	-0.4	130	0.00
92	T	Fluoranthene		1.186	1.176	0.8	134	0.00
93	T	Benzidine		0.721	0.666	7.6	123	0.00
94	T	Pyrene		1.269	1.307	-3.0	140	0.00
95	S	4-Terphenyl-d14		0.875	0.849	3.0	132	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620RVT\
Data File : ABN0620.D
Acq On : 20 Jun 2024 12:44 pm
Operator : SV107:mrg
Sample : WG1937154-3,32,,ABN 10777 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 20 13:41:58 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:42:26 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.245	15.1	127	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	113	0.00
104	T	Benzo(a)anthracene		1.335	1.336	-0.1	124	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.451	-4.9	118	0.00
106	T	Chrysene		1.276	1.314	-3.0	128	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.579	8.4	120	0.00
108	T	Di-n-octylphthalate	*	5.000	4.236	15.3	115	0.00
109	T	Benzo(b)fluoranthene		1.178	1.282	-8.8	131	0.00
110	T	Benzo(k)fluoranthene		1.154	1.111	3.7	114	0.00
111	T	Benzo(a)pyrene		1.025	1.073	-4.7	124	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	107	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.042	-9.5	126	0.00
114	T	Dibenzo(a,h)anthracene		0.953	1.017	-6.7	113	0.00
115	T	Benzo(ghi)perylene		0.928	1.010	-8.8	123	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : ABN0620.D
Acq On : 20 Jun 2024 12:44 pm
Operator : SV107:mrg
Sample : WG1937154-3,32,,ABN 10777 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 20 13:41:58 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:42:26 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	64596	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	7.492	136	242090	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	9.269	164	156189	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	10.698	188	313744	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	13.304	240	264835	4.000	ug/ml	0.00
112) IS1_Perylene-d12	14.751	264	258064	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.716	112	90777	5.258	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 262.90%#			
7) Phenol-d6	5.645	99	111866	5.241	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 262.05%#			
19) Nitrobenzene-d5	6.704	82	109019	5.796	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 579.60%#			
45) 2-Fluorobiphenyl	8.633	172	264488	5.045	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 504.50%#			
78) 2,4,6-Tribromophenol	10.033	330	34490	5.179	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 258.95%#			
95) 4-Terphenyl-d14	12.280	244	332788	4.848	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 484.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.657	74	61333	5.397	ug/ml#	71
3) Pyridine	1.687	79	105403	5.442	ug/ml#	62
5) Aniline	5.575	93	141620	5.120	ug/ml	97
6) 2-Chlorophenol	5.734	128	99977	5.254	ug/ml	96
8) Phenol	5.663	94	121427	5.228	ug/ml	98
9) Bis(2-chloroethyl)ether	5.728	93	101397	5.298	ug/ml#	82
10) 1,3-Dichlorobenzene	5.928	146	122311	5.217	ug/ml	98
11) 1,4-Dichlorobenzene	6.034	146	122643	5.139	ug/ml	98
12) 1,2-Dichlorobenzene	6.222	146	119154	5.175	ug/ml	98
13) Benzyl alcohol	6.251	79	80868	5.005	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.440	45	150066	5.726	ug/ml#	54
15) 2-Methylphenol	6.440	108	86704	5.209	ug/ml	98
16) Hexachloroethane	6.628	117	47928	5.446	ug/ml#	64
17) n-Nitrosodi-n-propylamine	6.592	70	72627	5.115	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.634	108	93807	5.357	ug/ml	97
20) Nitrobenzene	6.728	77	111246	5.756	ug/ml	96
21) Isophorone	7.022	82	192188	5.151	ug/ml	96
22) 2-Nitrophenol	7.098	139	50048	5.812	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : ABN0620.D
Acq On : 20 Jun 2024 12:44 pm
Operator : SV107:mrg
Sample : WG1937154-3,32,,ABN 10777 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 20 13:41:58 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:42:26 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.222	107	92352	5.257	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.310	93	129576	5.322	ug/ml	99
25) 2,4-Dichlorophenol	7.375	162	93873	5.314	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.451	180	109659	5.150	ug/ml	97
35) Naphthalene	7.510	128	305937	5.076	ug/ml	99
36) Benzoic Acid	7.328	105	56552	5.214	ug/ml	97
37) 4-Chloroaniline	7.610	65	40721	5.356	ug/ml	94
38) Hexachlorobutadiene	7.692	225	64857	5.087	ug/ml	98
39) p-Chloro-m-cresol	8.151	107	86416	5.244	ug/ml	98
40) 2-Methylnaphthalene	8.239	142	211330	5.073	ug/ml	95
41) 1-Methylnaphthalene	8.339	115	73717	5.188	ug/ml	96
42) Hexachlorocyclopentadiene	8.428	237	70774	5.698	ug/ml	99
43) 2,4,6-Trichlorophenol	8.545	196	79464	5.545	ug/ml	97
44) 2,4,5-Trichlorophenol	8.575	196	83738	5.509	ug/ml	98
46) 2-Chloronaphthalene	8.722	162	225354	5.205	ug/ml	95
47) 2-Nitroaniline	8.839	138	59861	5.716	ug/ml	93
48) 1,4-Dinitrobenzene	8.981	168	31988	6.077	ug/ml	81
49) 1,3-Dinitrobenzene	9.051	168	38492	5.850	ug/ml#	1
50) Dimethyl phthalate	9.057	163	273292	5.384	ug/ml#	98
51) Acenaphthylene	9.122	152	341710	5.230	ug/ml	98
52) 2,6-Dinitrotoluene	9.092	165	56095	6.076	ug/ml#	82
53) 1,2-Dinitrobenzene	9.133	168	25005	6.062	ug/ml#	1
63) 3-Nitroaniline	9.245	138	58197	5.744	ug/ml#	99
64) Acenaphthene	9.298	154	207507	4.916	ug/ml	91
65) 2,4-Dinitrophenol	9.345	184	28755	5.242	ug/ml	88
66) Dibenzofuran	9.469	168	342255	4.990	ug/ml#	83
67) 2,4-Dinitrotoluene	9.480	165	78977	5.221	ug/ml	95
68) 4-Nitrophenol	9.451	65	51054	5.906	ug/ml#	32
69) 2,3,5,6-Tetrachlorophenol	9.563	232	70104	5.650	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.604	232	67277	5.491	ug/ml	98
71) Diethyl phthalate	9.751	149	267027	5.255	ug/ml	98
72) Fluorene	9.798	166	264297	5.096	ug/ml	93
73) 4-Chlorophenyl phenyl ...	9.828	204	131042	4.994	ug/ml	90
74) 4-Nitroaniline	9.833	138	56917	5.553	ug/ml#	86
75) 4,6-Dinitro-o-cresol	9.869	198	42456	5.267	ug/ml#	65
76) NDPA/DPA	9.945	169	231230	5.234	ug/ml	93
77) Azobenzene	9.975	77	259574	5.279	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.292	248	73417	4.995	ug/ml#	89
80) Hexachlorobenzene	10.339	284	79823	4.744	ug/ml	89
81) Pentachlorophenol	10.533	266	43517	4.431	ug/ml	100
88) Phenanthrene	10.716	178	420738	5.167	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : ABN0620.D
Acq On : 20 Jun 2024 12:44 pm
Operator : SV107:mrg
Sample : WG1937154-3,32,,ABN 10777 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 20 13:41:58 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:42:26 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	10.769	178	417461	5.169	ug/ml	98
90) Carbazole	10.939	167	367230	5.045	ug/ml	97
91) Di-n-butylphthalate	11.345	149	428183	5.017	ug/ml	99
92) Fluoranthene	11.869	202	461395	4.961	ug/ml#	92
93) Benzidine	12.027	184	261164	4.621	ug/ml#	94
94) Pyrene	12.080	202	512585	5.151	ug/ml	99
96) Butyl benzyl phthalate	12.810	149	169252	4.245	ug/ml	94
104) Benzo(a)anthracene	13.292	228	442436	5.006	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.304	252	149180	5.242	ug/ml	97
106) Chrysene	13.327	228	434910	5.150	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.445	149	260135	4.579	ug/ml#	95
108) Di-n-octylphthalate	14.121	149	387019	4.236	ug/ml#	74
109) Benzo(b)fluoranthene	14.386	252	424468	5.442	ug/ml#	91
110) Benzo(k)fluoranthene	14.415	252	367764	4.814	ug/ml#	92
111) Benzo(a)pyrene	14.692	252	355154	5.232	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.704	276	336285	5.475	ug/mL#	91
114) Dibenzo(a,h)anthracene	15.733	278	328189	5.338	ug/ml#	93
115) Benzo(ghi)perylene	15.921	276	325752	5.442	ug/ml#	90

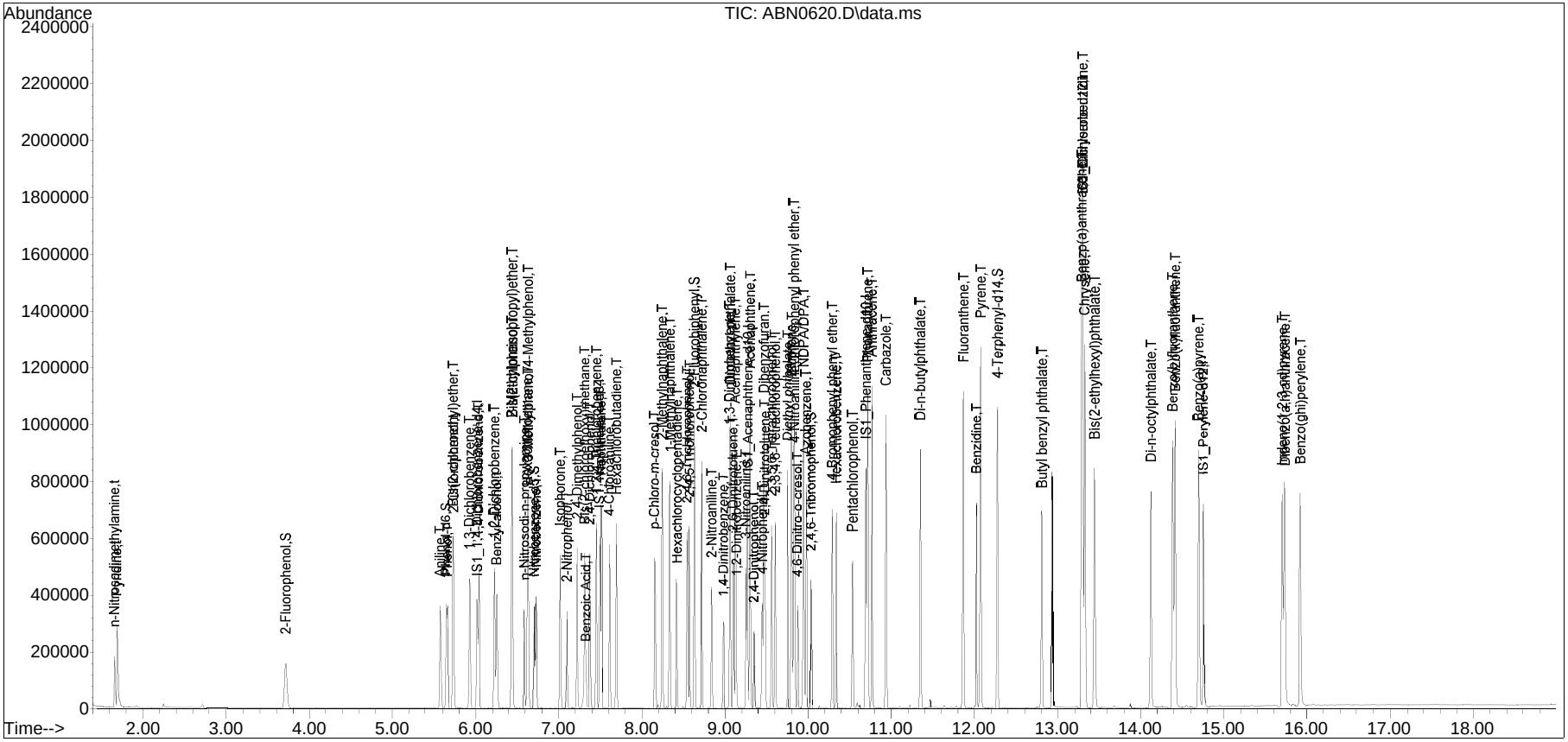
(#) = qualifier out of range (m) = manual integration (+) = signals summed

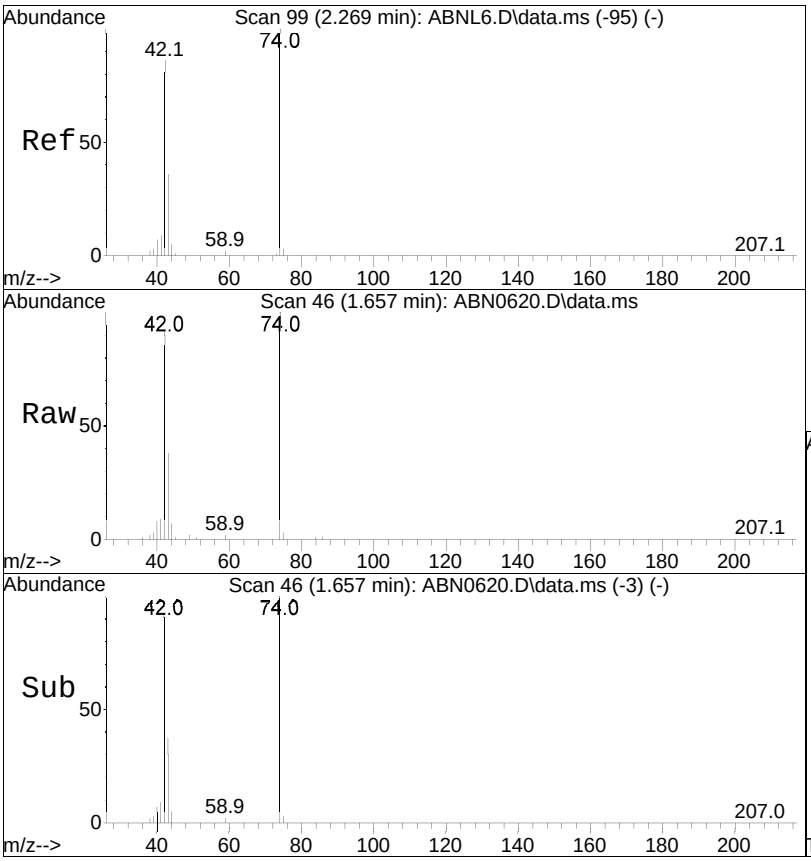
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : ABN0620.D
Acq On : 20 Jun 2024 12:44 pm
Operator : SV107:mrg
Sample : WG1937154-3,32,,ABN 10777 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 20 13:41:58 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:42:26 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

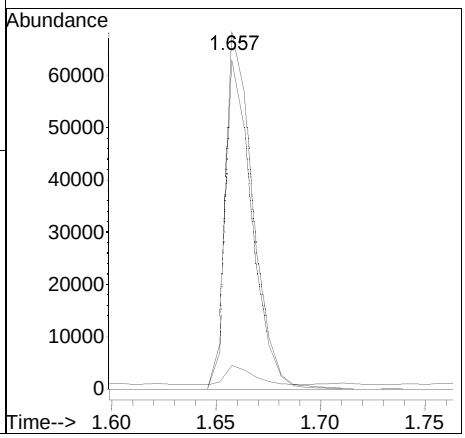


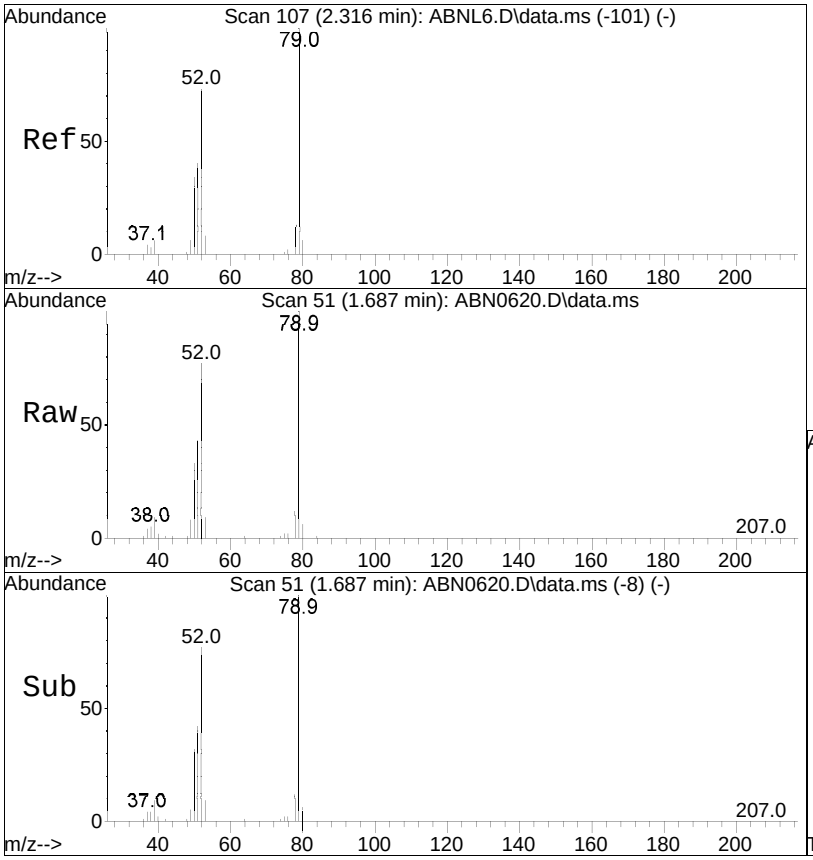


#2
n-Nitrosodimethylamine
Concen: 5.40 ug/ml
RT: 1.657 min Scan# 46
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 74 Resp: 61333

Ion	Ratio	Lower	Upper
74	100		
42	90.4	100.0	150.0#
44	5.0	6.7	10.1#

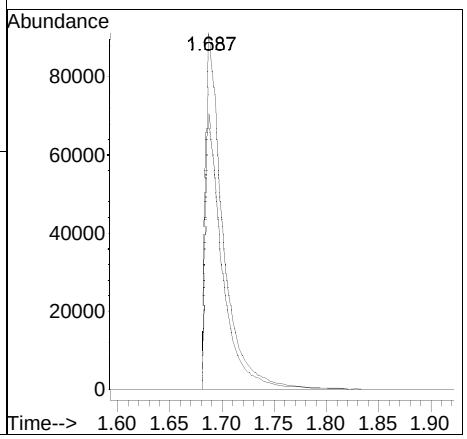


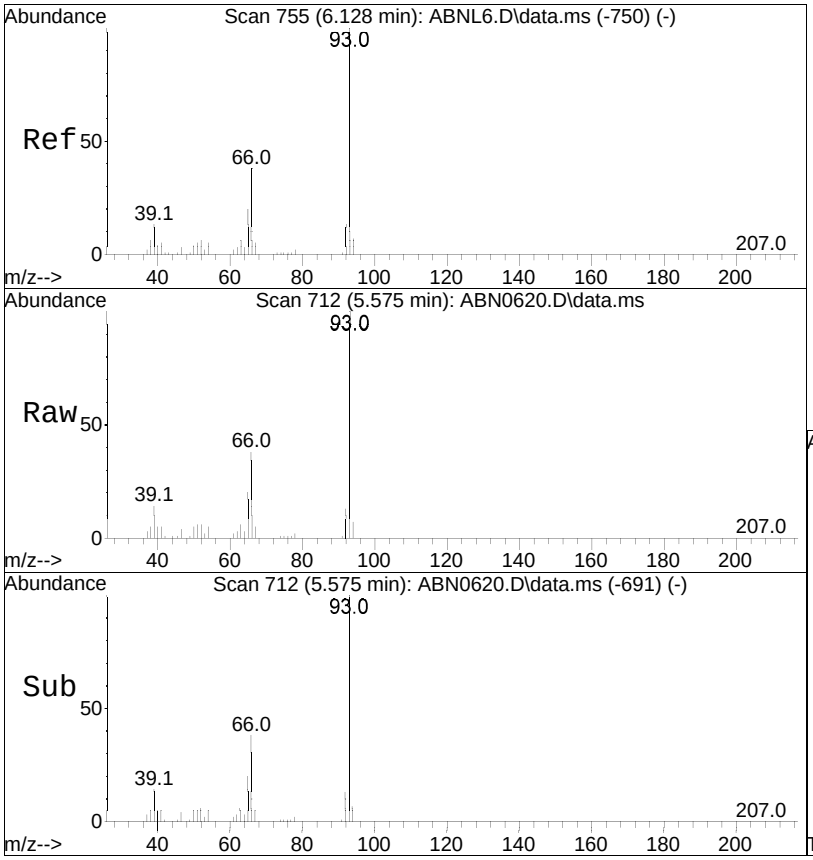


#3
Pyridine
Concen: 5.44 ug/ml
RT: 1.687 min Scan# 51
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 79 Resp: 105403

Ion	Ratio	Lower	Upper
79	100		
52	75.2	93.1	139.7#

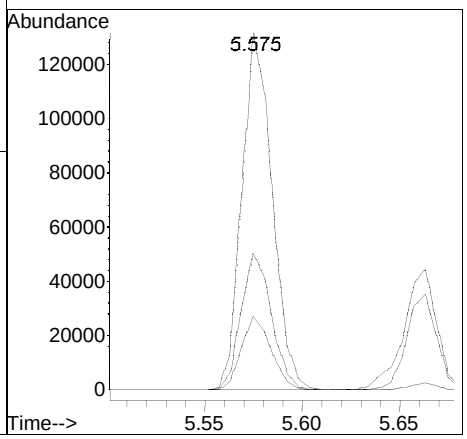


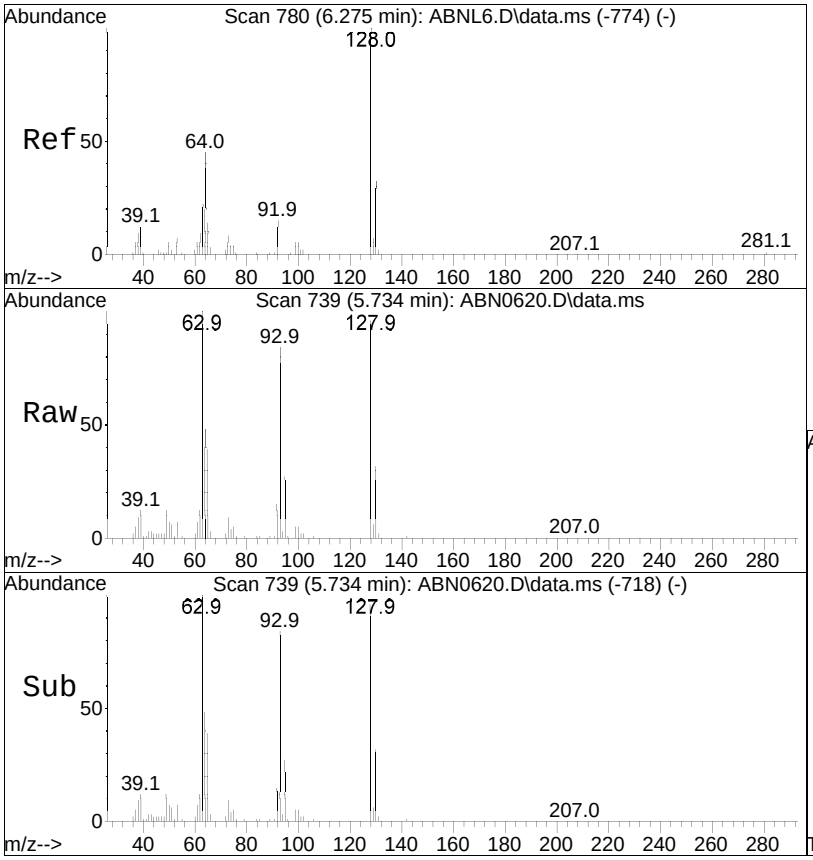


#5
Aniline
Concen: 5.12 ug/ml
RT: 5.575 min Scan# 712
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 93 Resp: 141620

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.3	17.6	26.4

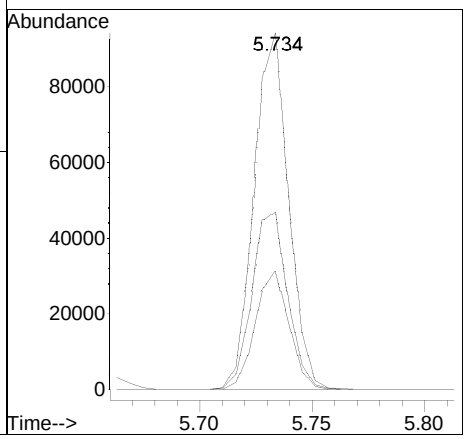


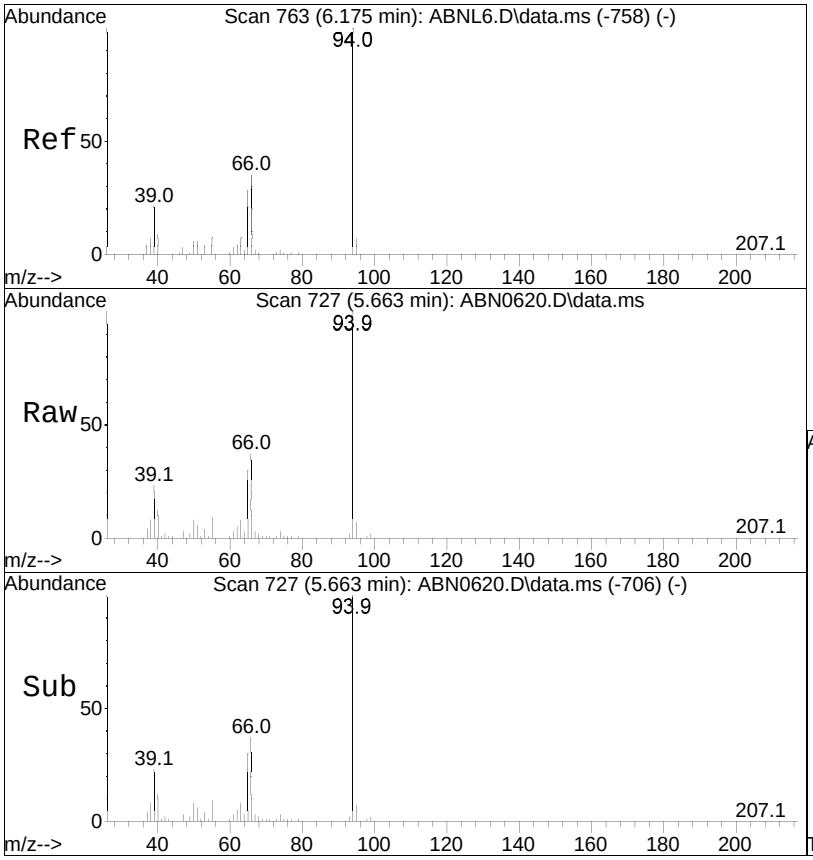


#6
2-Chlorophenol
Concen: 5.25 ug/ml
RT: 5.734 min Scan# 739
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:128 Resp: 99977

Ion	Ratio	Lower	Upper
128	100		
64	51.6	45.1	67.7
130	32.7	26.2	39.4

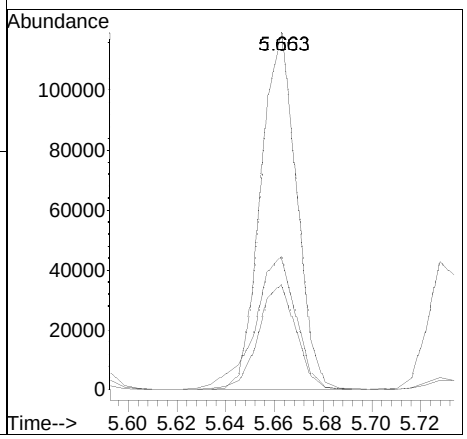


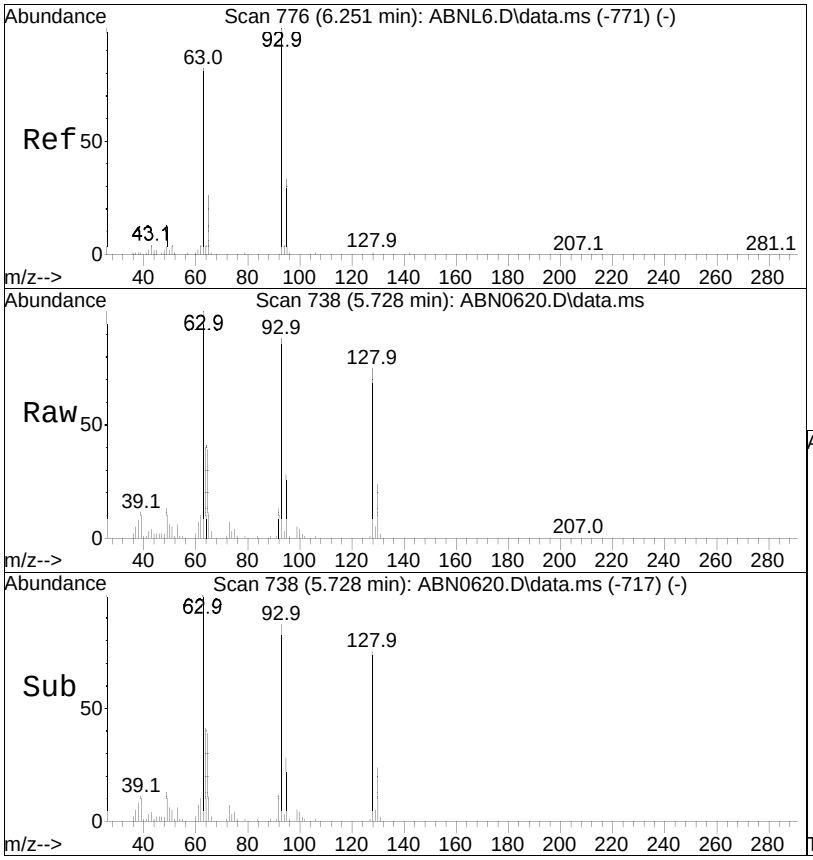


#8
Phenol
Concen: 5.23 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 94 Resp: 121427

Ion	Ratio	Lower	Upper
94	100		
65	31.2	26.0	39.0
66	43.1	33.8	50.8

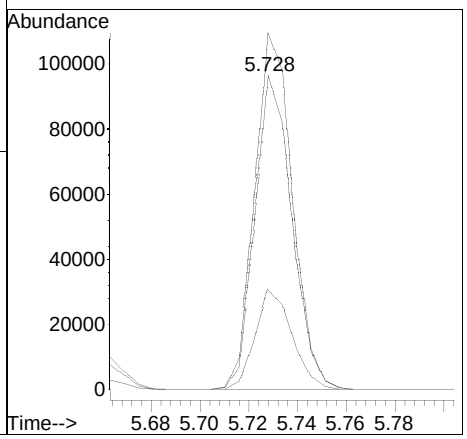


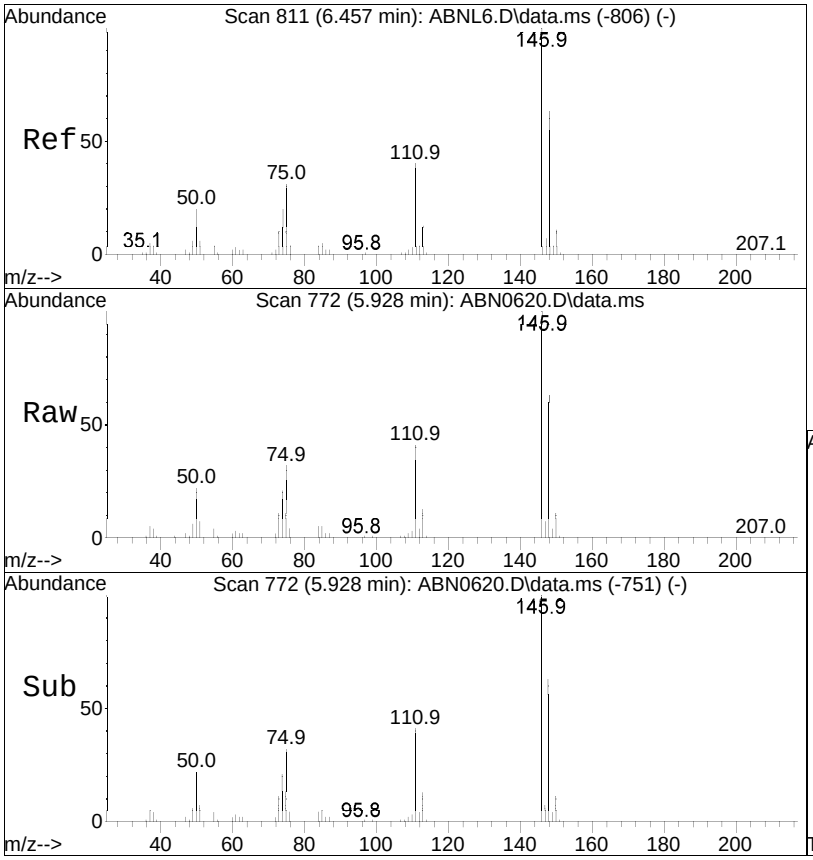


#9
Bis(2-chloroethyl)ether
Concen: 5.30 ug/ml
RT: 5.728 min Scan# 738
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 93 Resp: 101397

Ion	Ratio	Lower	Upper
93	100		
63	115.6	74.6	111.8#
95	31.9	25.9	38.9

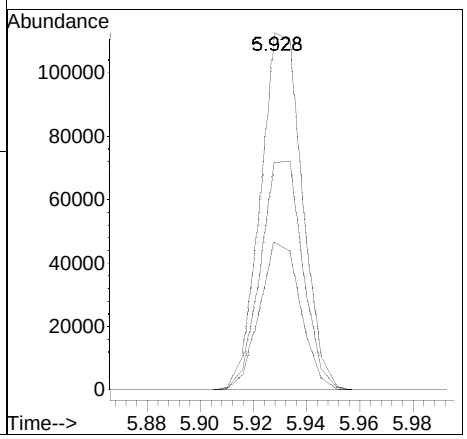


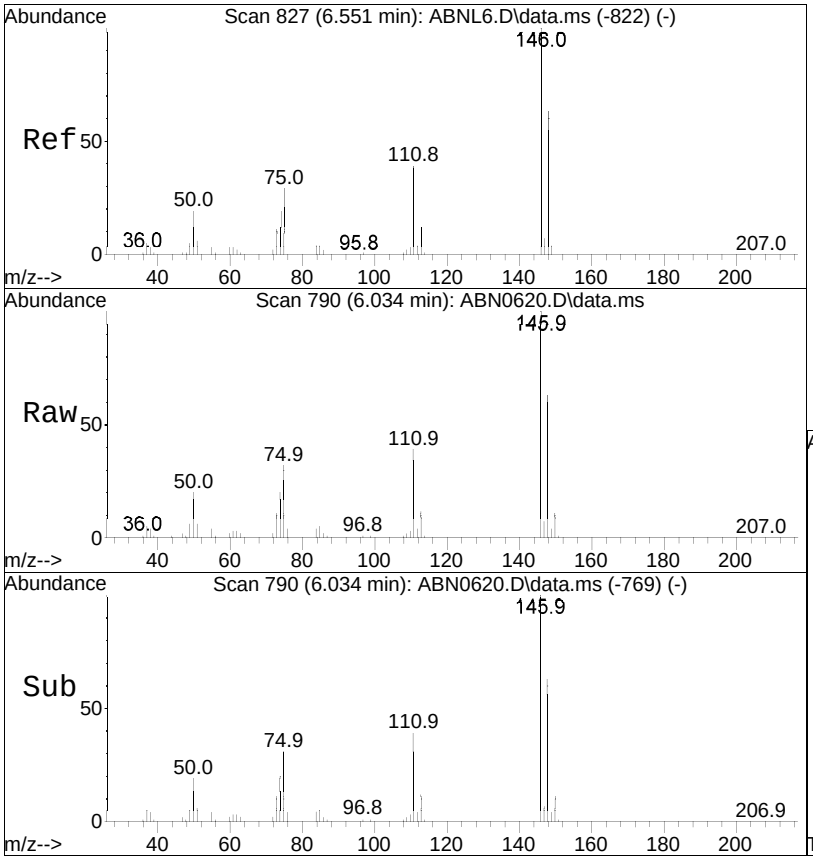


#10
1,3-Dichlorobenzene
Concen: 5.22 ug/ml
RT: 5.928 min Scan# 772
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:146 Resp: 122311

Ion	Ratio	Lower	Upper
146	100		
111	40.8	34.3	51.5
148	64.4	50.8	76.2

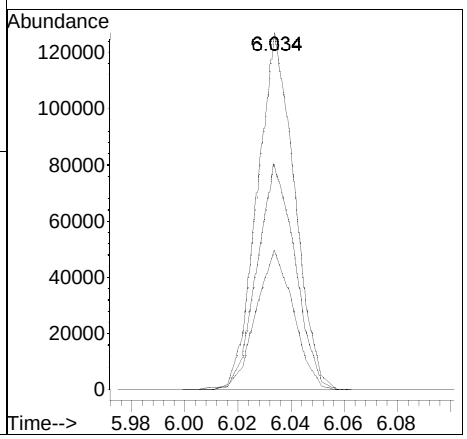


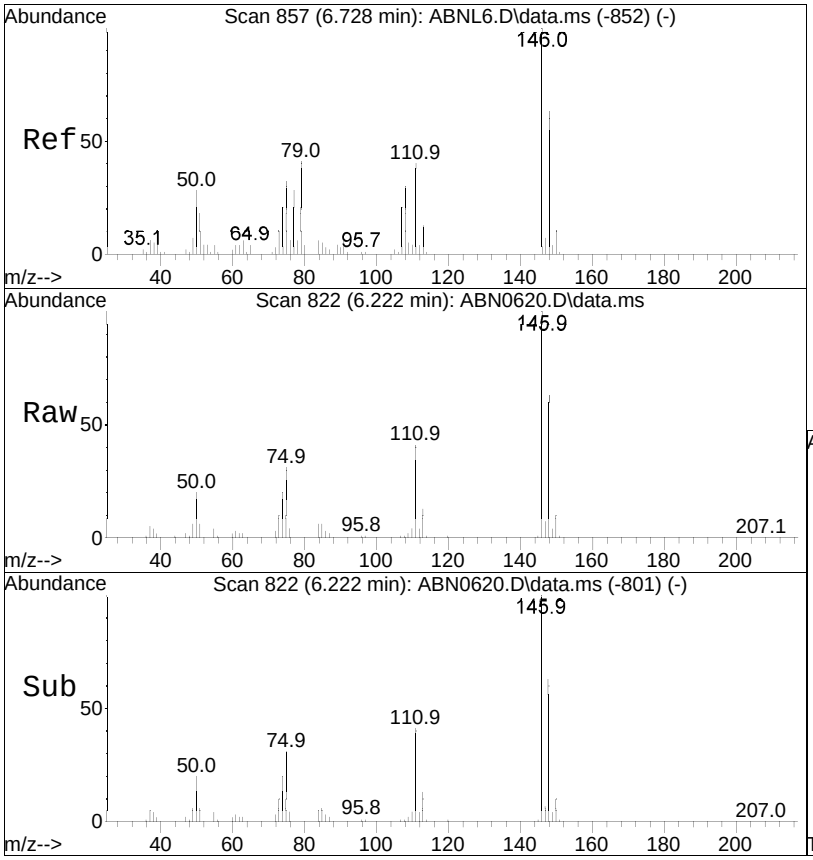


#11
1,4-Dichlorobenzene
Concen: 5.14 ug/ml
RT: 6.034 min Scan# 790
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:146 Resp: 122643

Ion	Ratio	Lower	Upper
146	100		
148	64.6	50.7	76.1
111	40.0	33.4	50.0

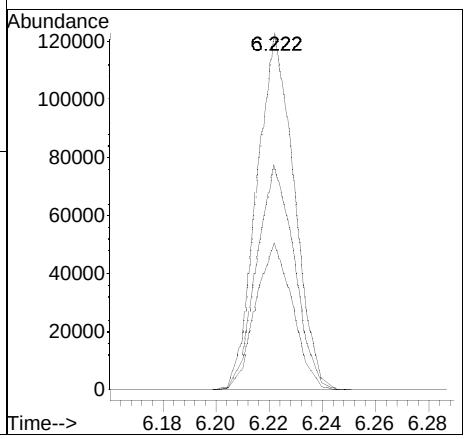


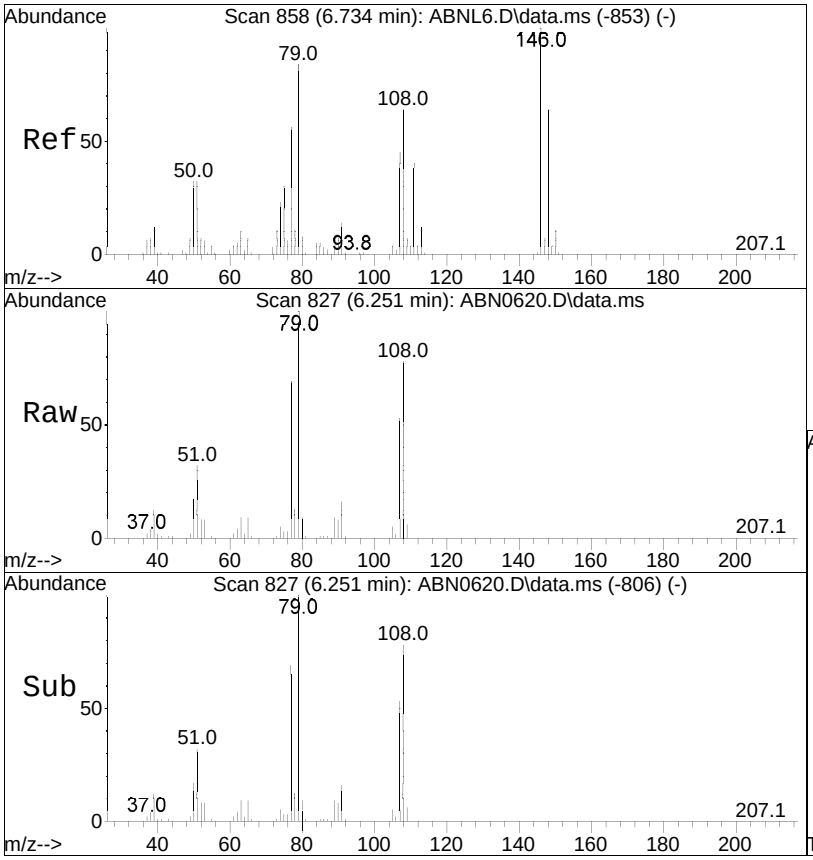


#12
1,2-Dichlorobenzene
Concen: 5.18 ug/ml
RT: 6.222 min Scan# 822
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:146 Resp: 119154

Ion	Ratio	Lower	Upper
146	100		
111	40.8	34.6	52.0
148	63.4	50.2	75.4

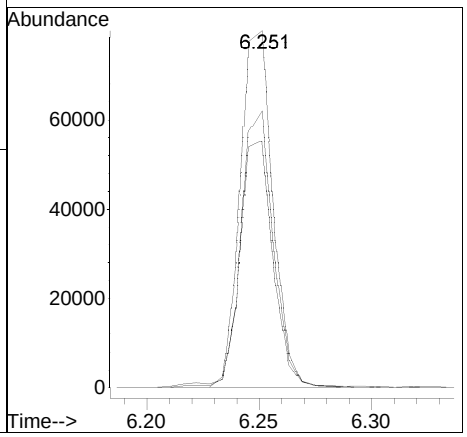


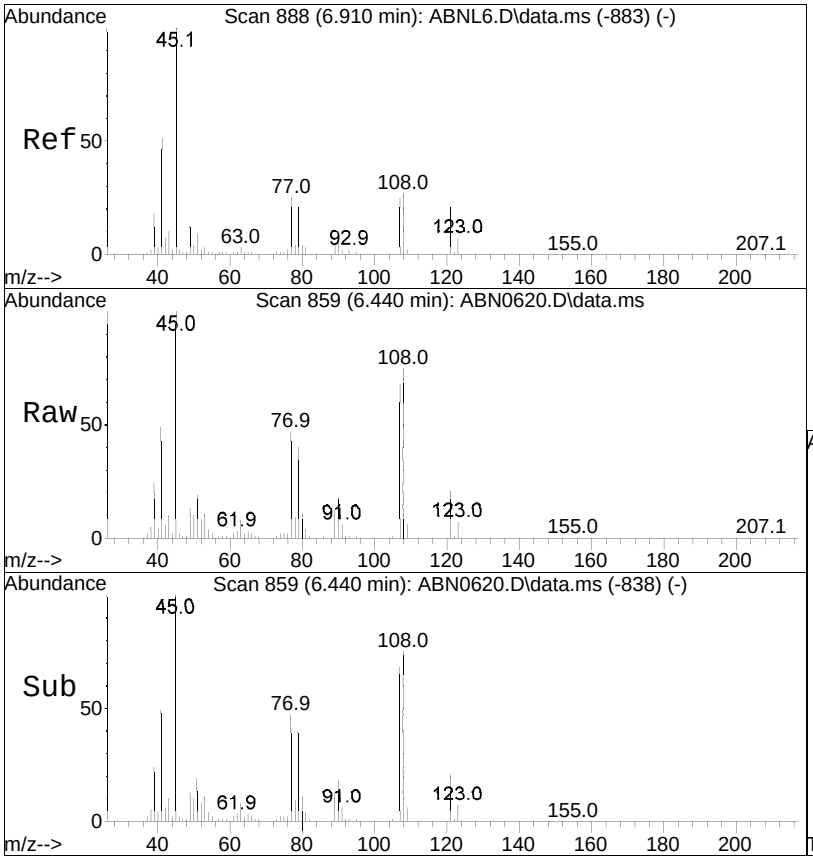


#13
Benzyl alcohol
Concen: 5.01 ug/ml
RT: 6.251 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 79 Resp: 80868

Ion	Ratio	Lower	Upper
79	100		
77	70.1	54.9	82.3
108	77.1	63.1	94.7

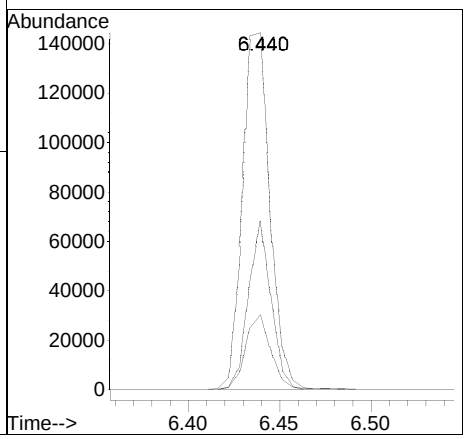


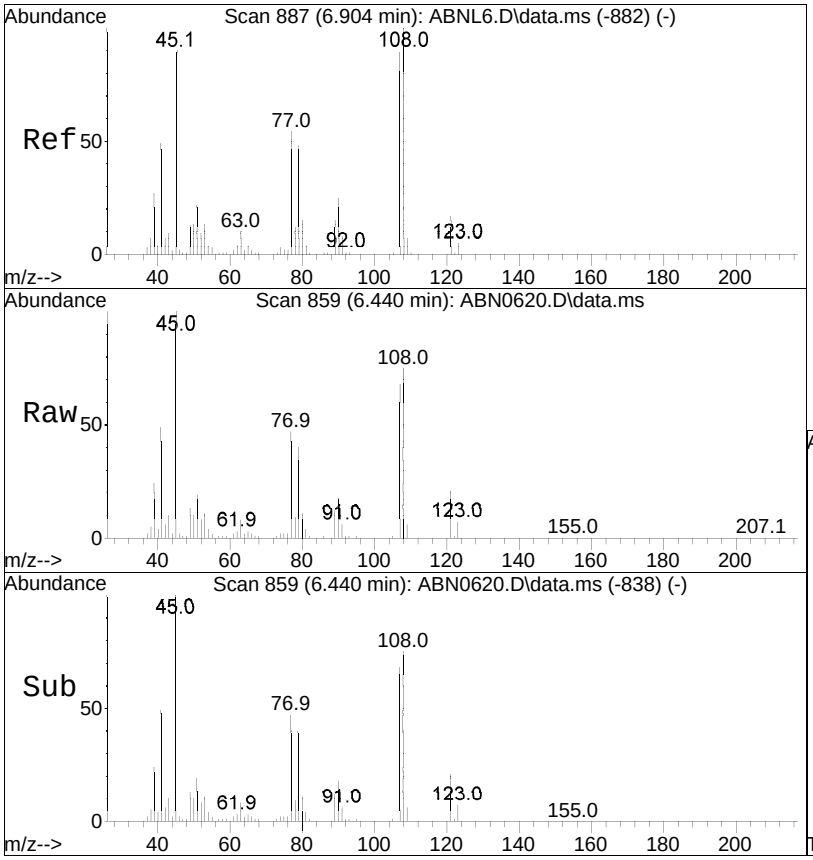


#14
Bis(2-chloroisopropyl)ether
Concen: 5.73 ug/ml
RT: 6.440 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 45 Resp: 150066

Ion	Ratio	Lower	Upper
45	100		
121	19.3	9.8	14.6#
77	39.4	6.1	9.1#

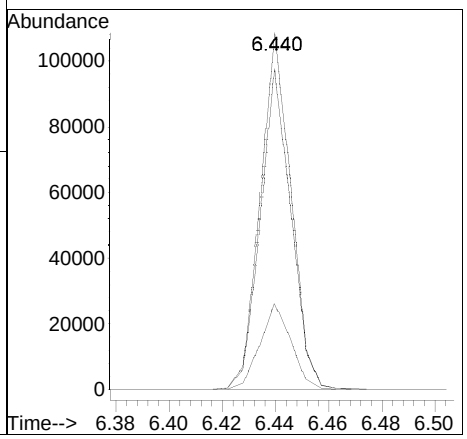


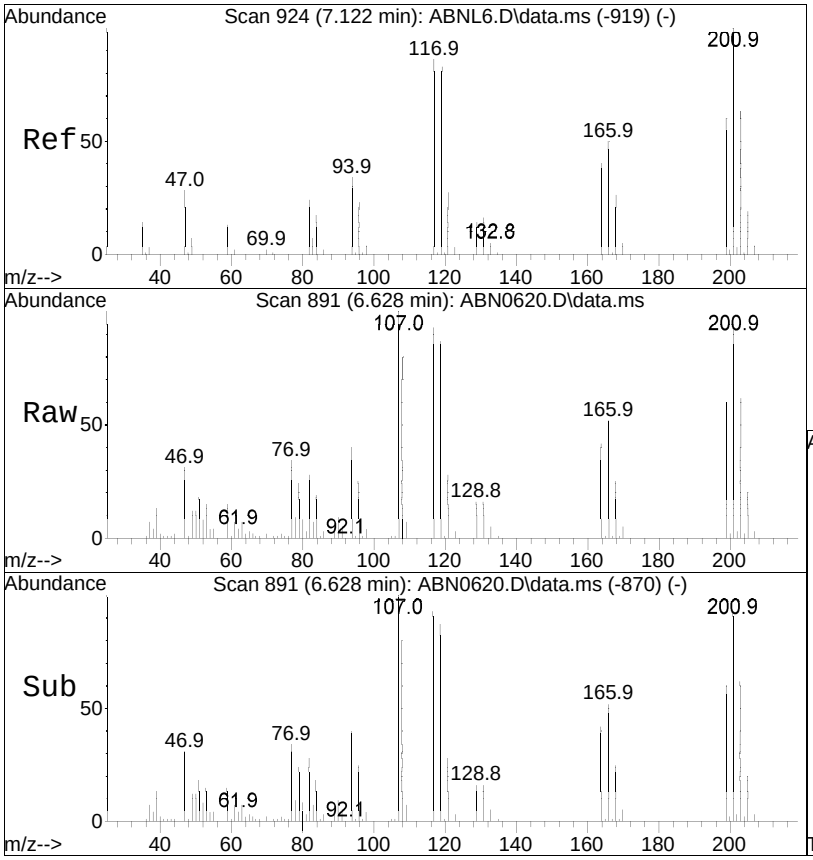


#15
2-Methylphenol
Concen: 5.21 ug/ml
RT: 6.440 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:108 Resp: 86704

Ion	Ratio	Lower	Upper
108	100		
107	89.7	70.7	106.1
90	24.4	18.7	28.1

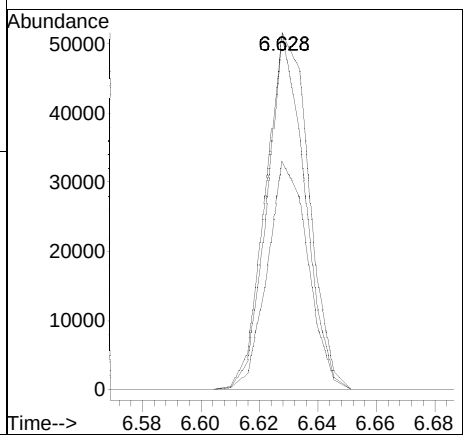


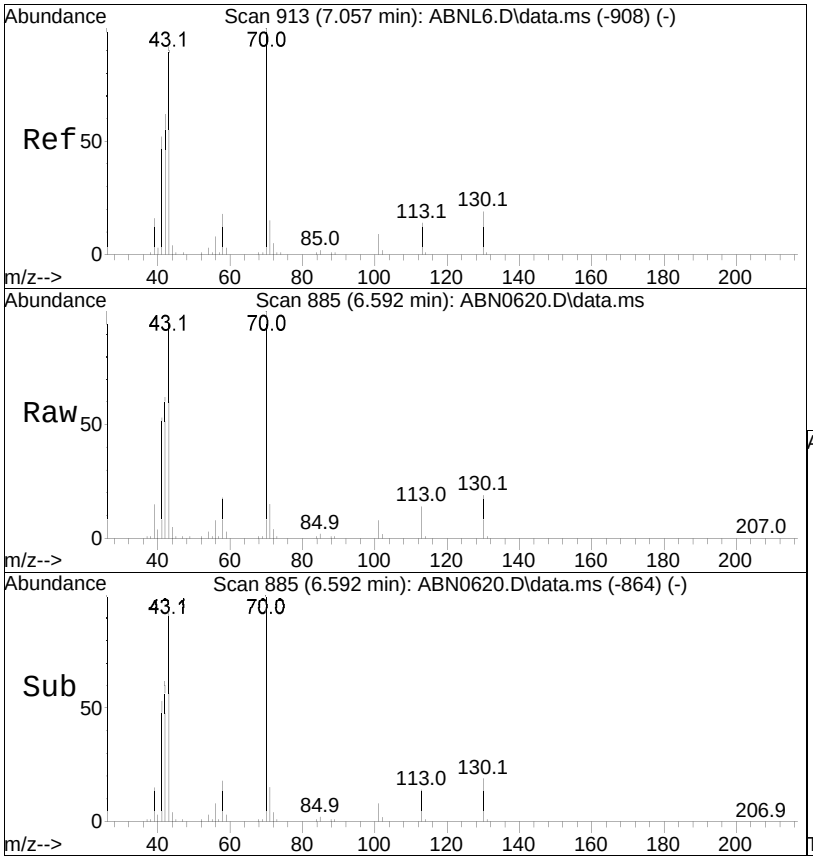


#16
Hexachloroethane
Concen: 5.45 ug/ml
RT: 6.628 min Scan# 891
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:117 Resp: 47928

Ion	Ratio	Lower	Upper
117	100		
201	106.4	58.6	87.8#
199	66.2	36.9	55.3#

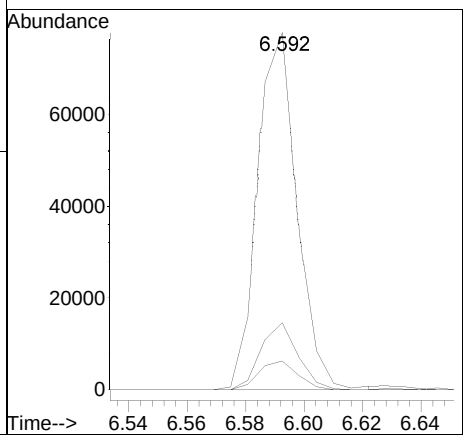


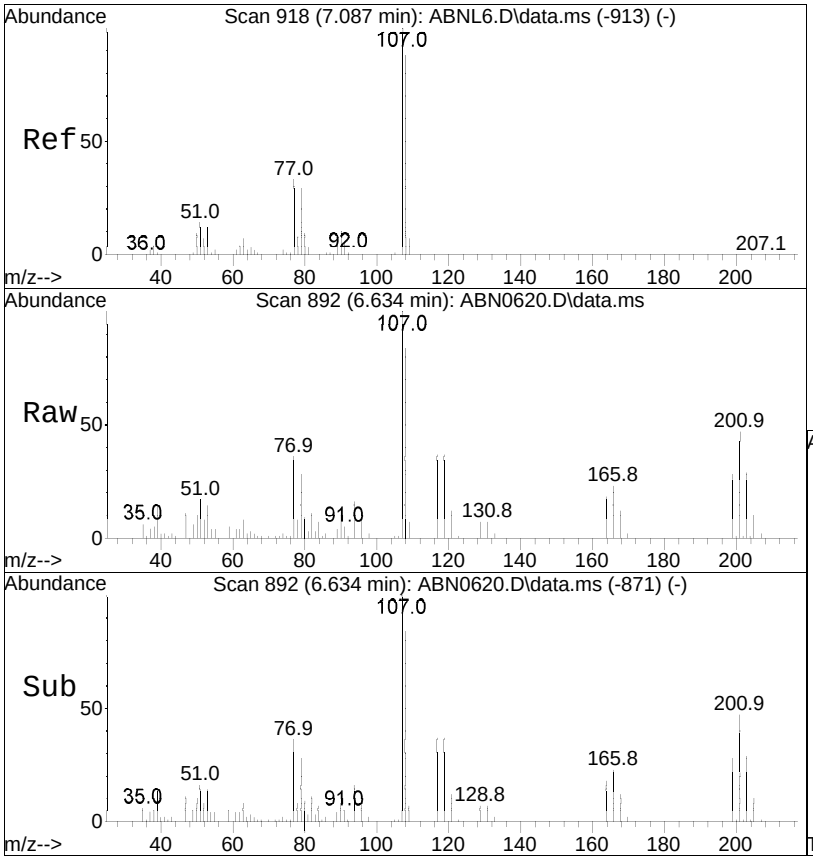


#17
n-Nitrosodi-n-propylamine
Concen: 5.11 ug/ml
RT: 6.592 min Scan# 885
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 70 Resp: 72627

Ion	Ratio	Lower	Upper
70	100		
130	17.6	18.2	27.4#
101	7.9	7.8	11.8

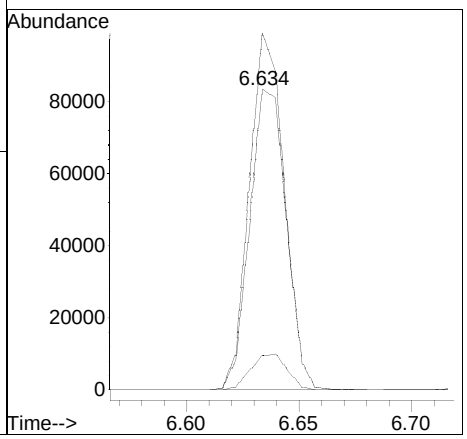


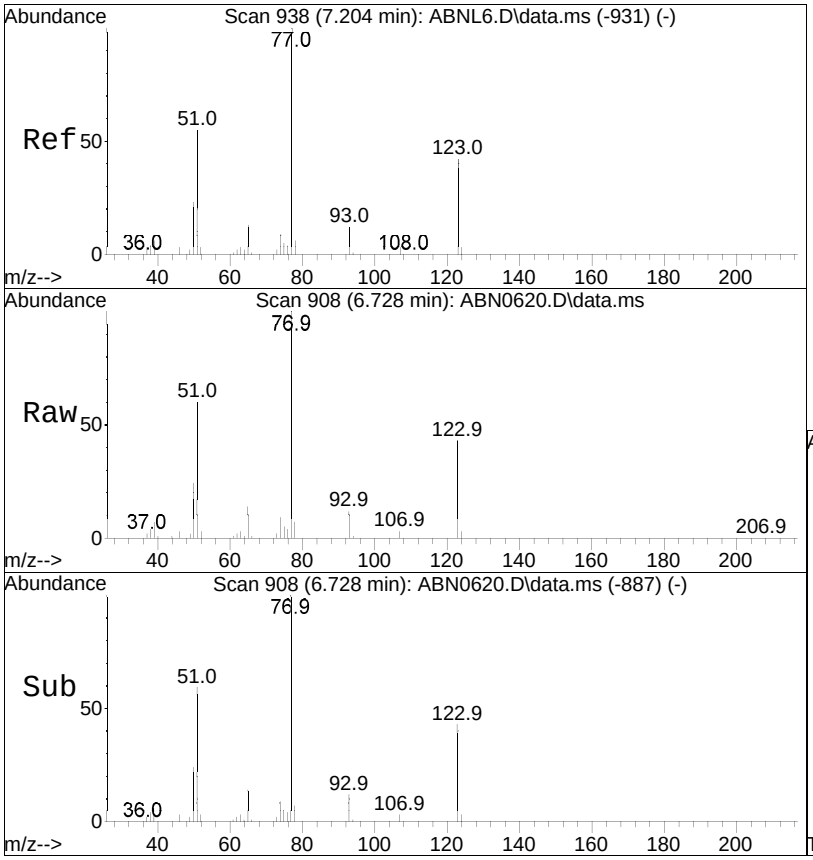


#18
3-Methylphenol/4-Methylphenol
Concen: 5.36 ug/ml
RT: 6.634 min Scan# 892
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:108 Resp: 93807

Ion	Ratio	Lower	Upper
108	100		
107	113.9	88.6	132.8
90	11.9	8.8	13.2

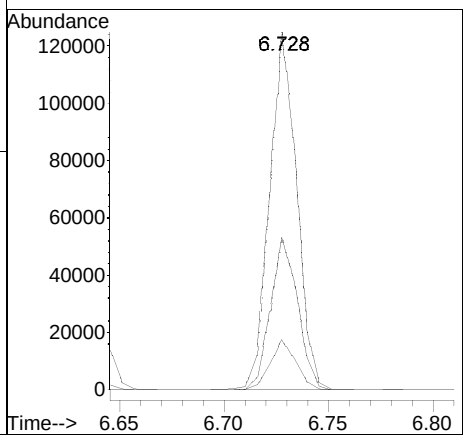


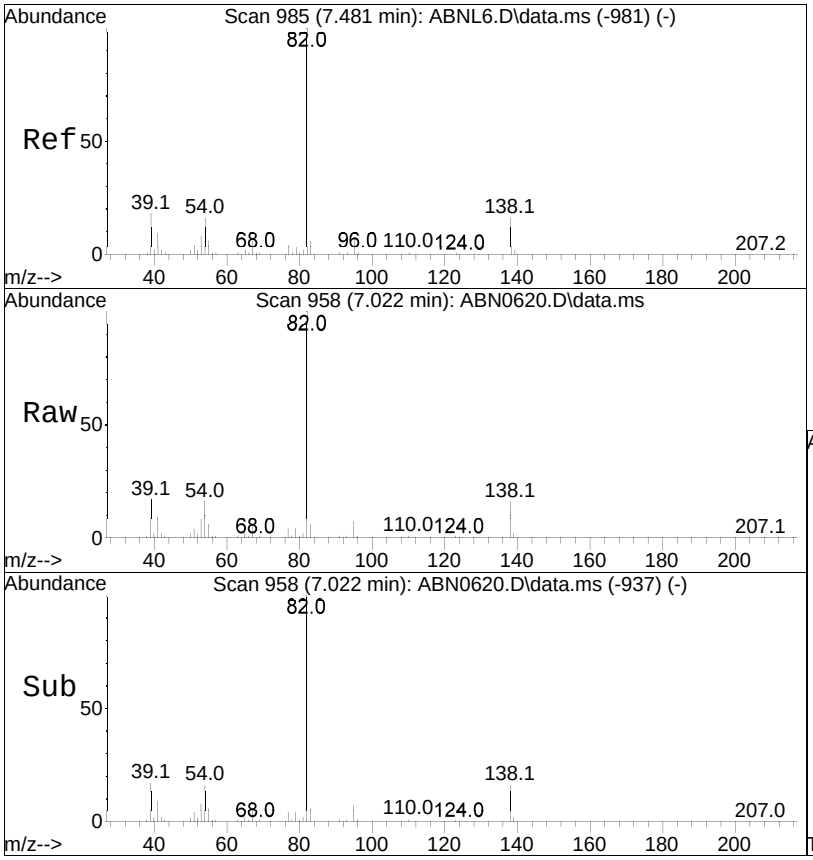


#20
Nitrobenzene
Concen: 5.76 ug/ml
RT: 6.728 min Scan# 908
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 77 Resp: 111246

Ion	Ratio	Lower	Upper
77	100		
123	42.7	36.3	54.5
65	13.5	11.6	17.4

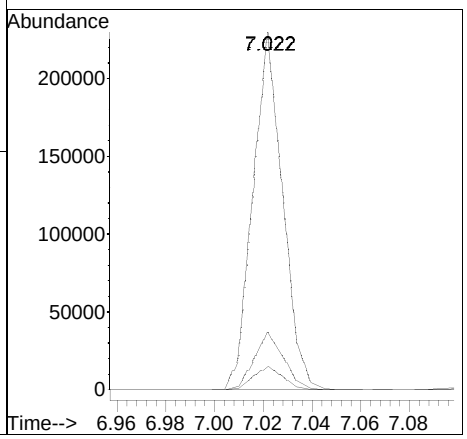


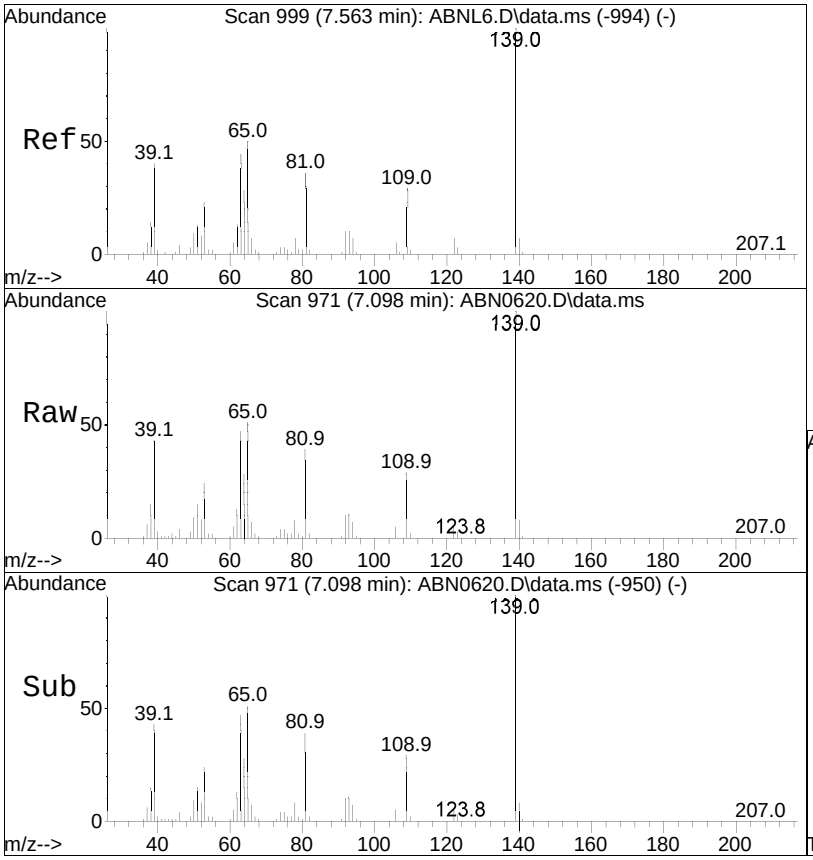


#21
Isophorone
Concen: 5.15 ug/ml
RT: 7.022 min Scan# 958
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 82 Resp: 192188

Ion	Ratio	Lower	Upper
82	100		
138	16.1	14.7	22.1
95	6.7	5.2	7.8

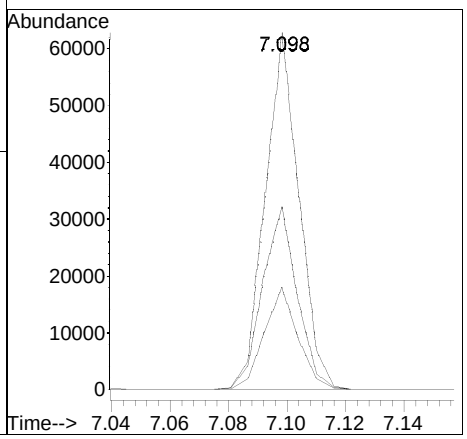


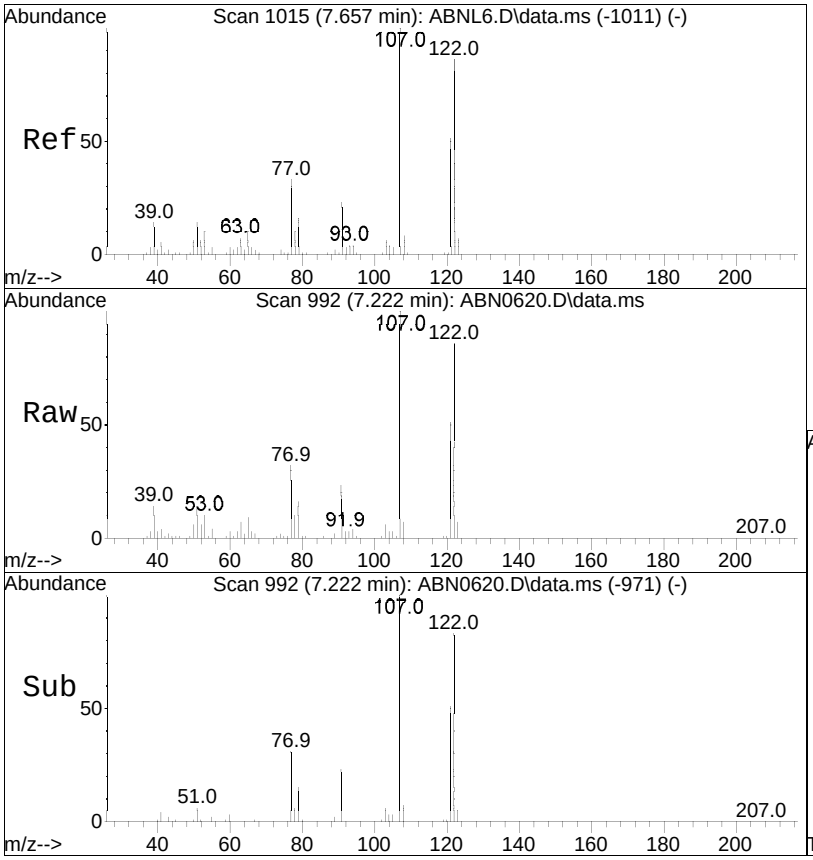


#22
2-Nitrophenol
Concen: 5.81 ug/ml
RT: 7.098 min Scan# 971
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:139 Resp: 50048

Ion	Ratio	Lower	Upper
139	100		
109	28.8	19.4	29.0
65	52.8	46.1	69.1

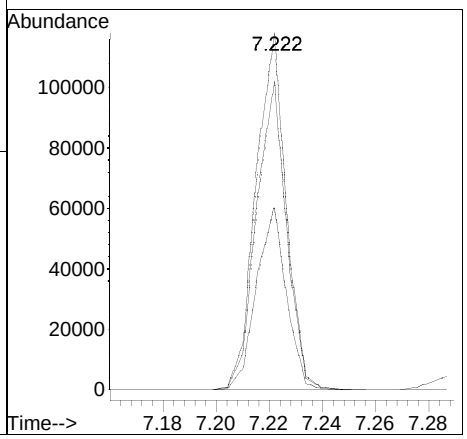


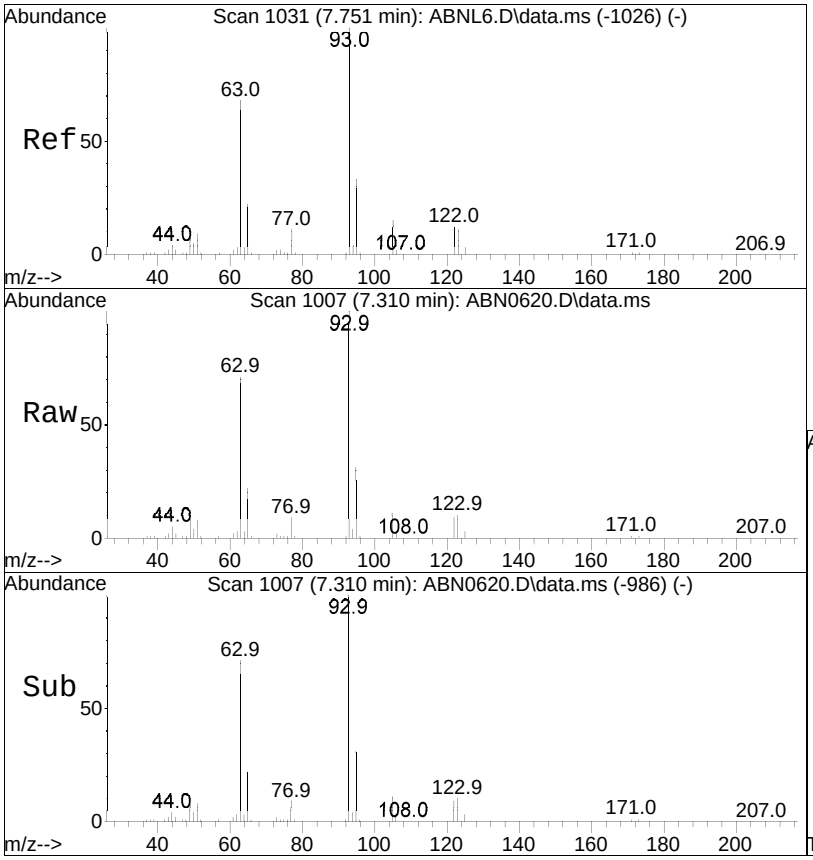


#23
2,4-Dimethylphenol
Concen: 5.26 ug/ml
RT: 7.222 min Scan# 992
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:107 Resp: 92352

Ion	Ratio	Lower	Upper
107	100		
121	51.0	40.0	60.0
122	86.2	70.2	105.4

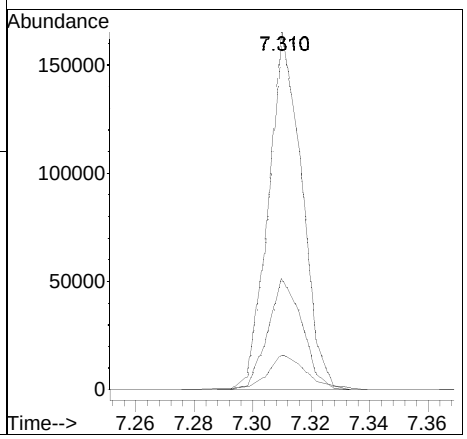


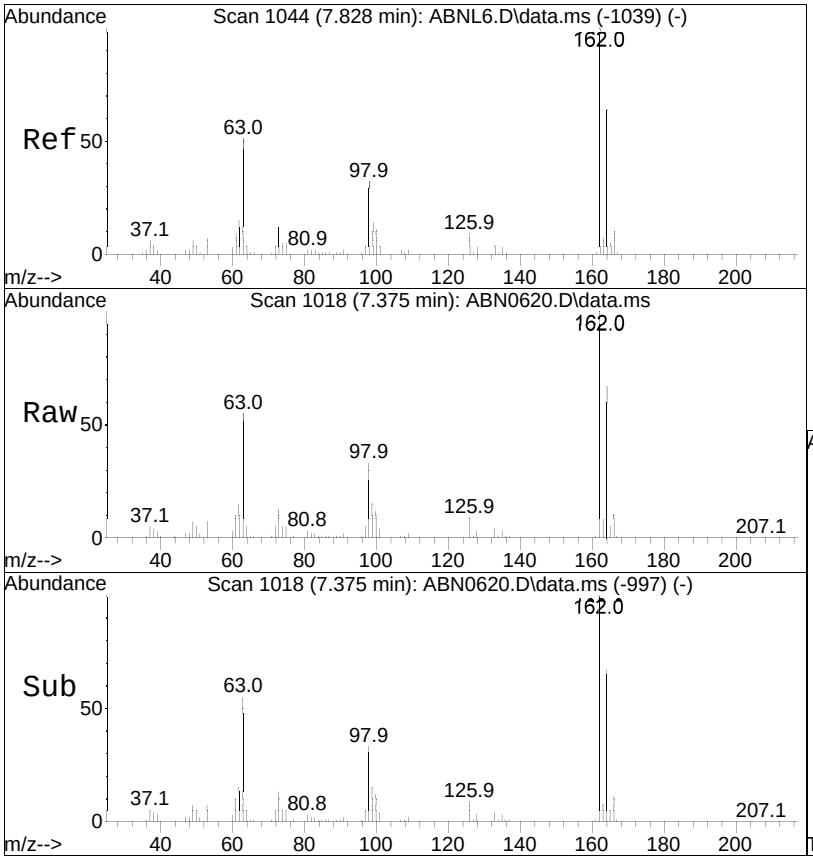


#24
Bis(2-chloroethoxy)methane
Concen: 5.32 ug/ml
RT: 7.310 min Scan# 1007
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 93 Resp: 129576

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	11.7	10.1	15.1

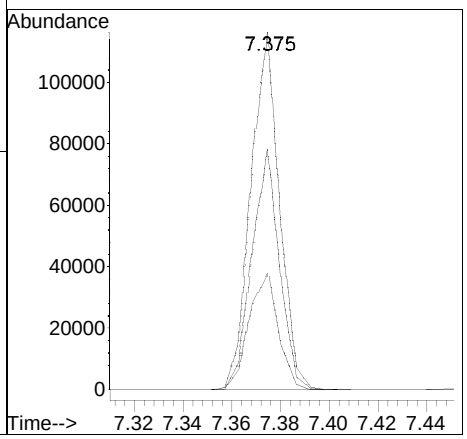


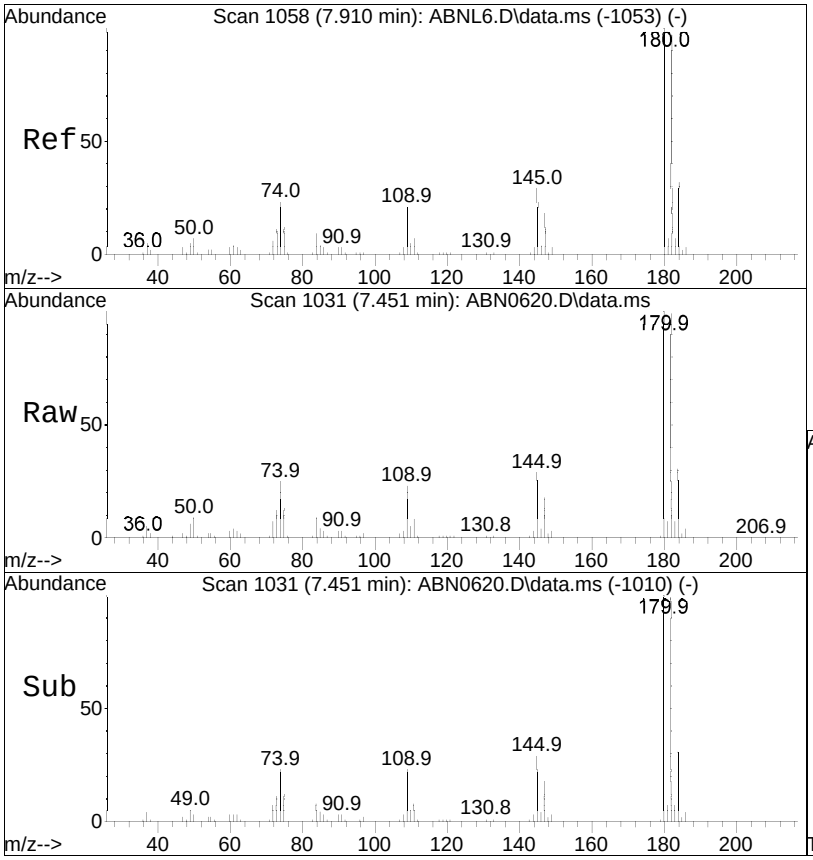


#25
2,4-Dichlorophenol
Concen: 5.31 ug/ml
RT: 7.375 min Scan# 1018
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:162 Resp: 93873

Ion	Ratio	Lower	Upper
162	100		
164	64.8	51.0	76.4
98	33.6	32.2	48.2

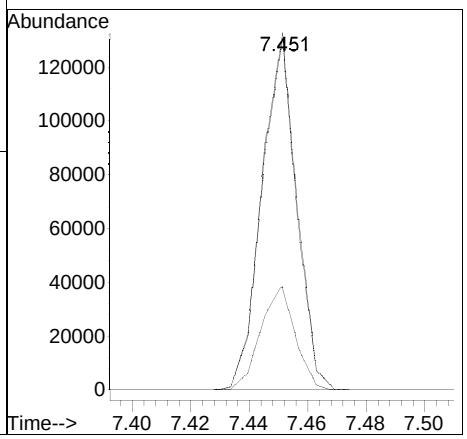


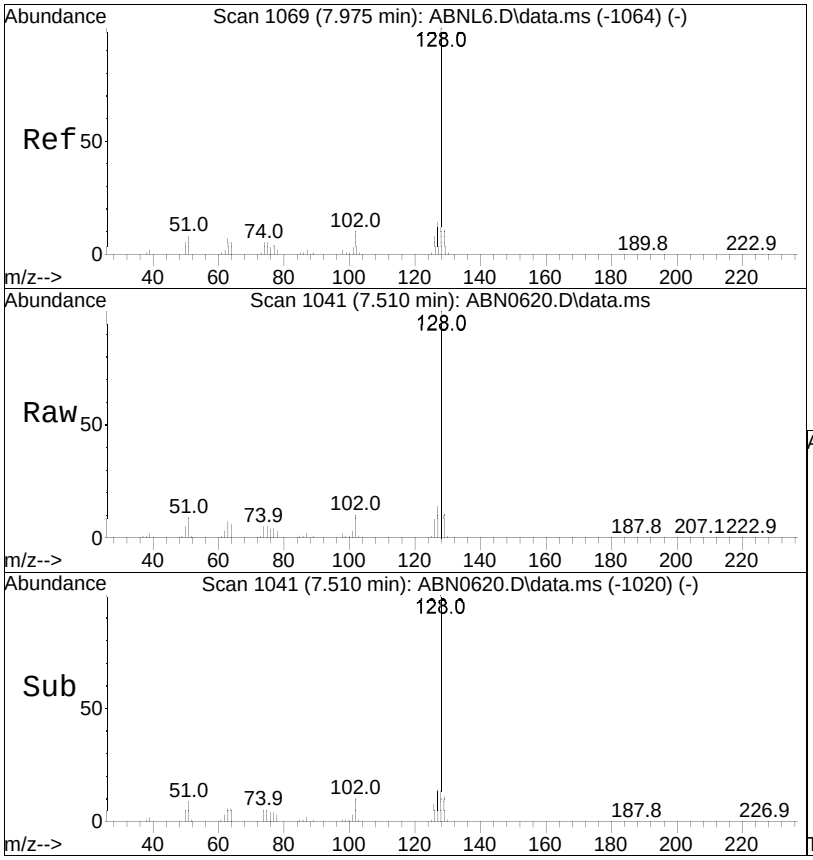


#26
1,2,4-Trichlorobenzene
Concen: 5.15 ug/ml
RT: 7.451 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:180 Resp: 109659

Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.0	114.0
145	28.8	25.7	38.5

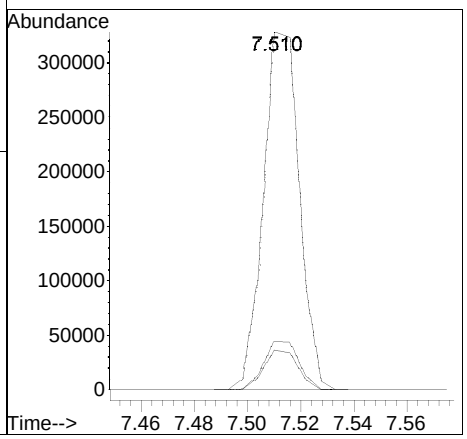


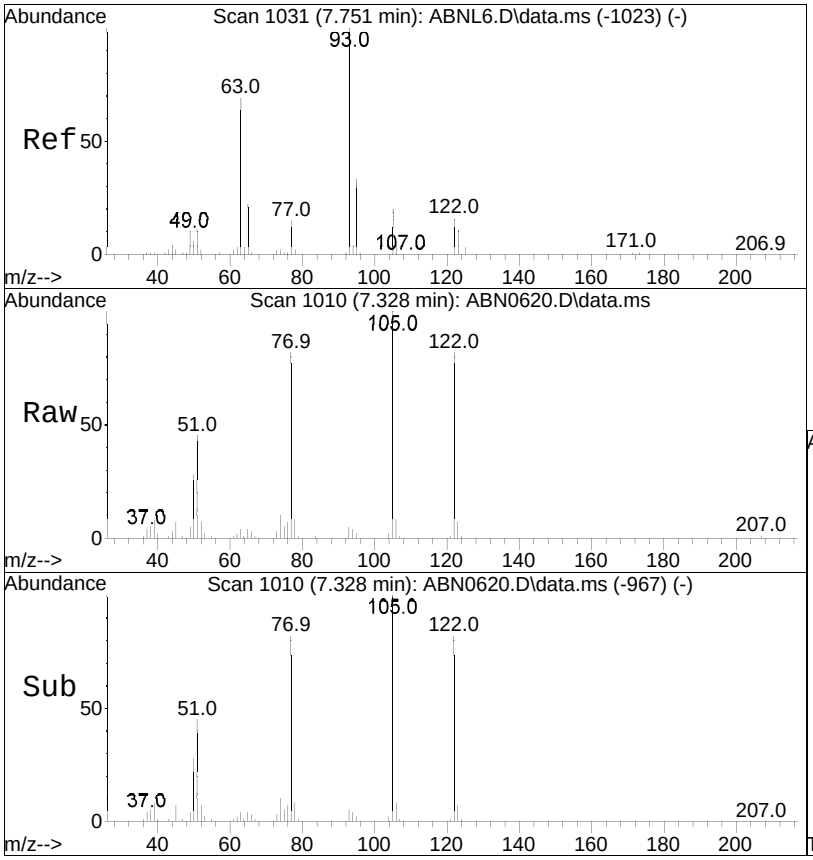


#35
Naphthalene
Concen: 5.08 ug/ml
RT: 7.510 min Scan# 1041
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:128 Resp: 305937

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.7	10.3	15.5

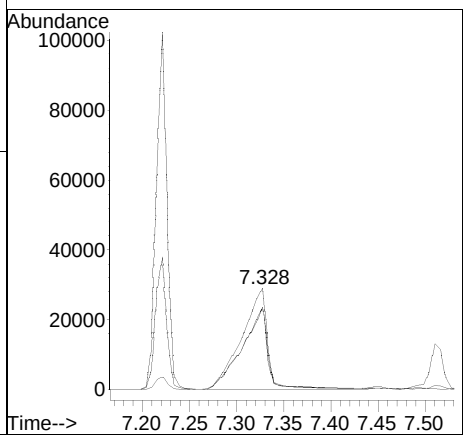


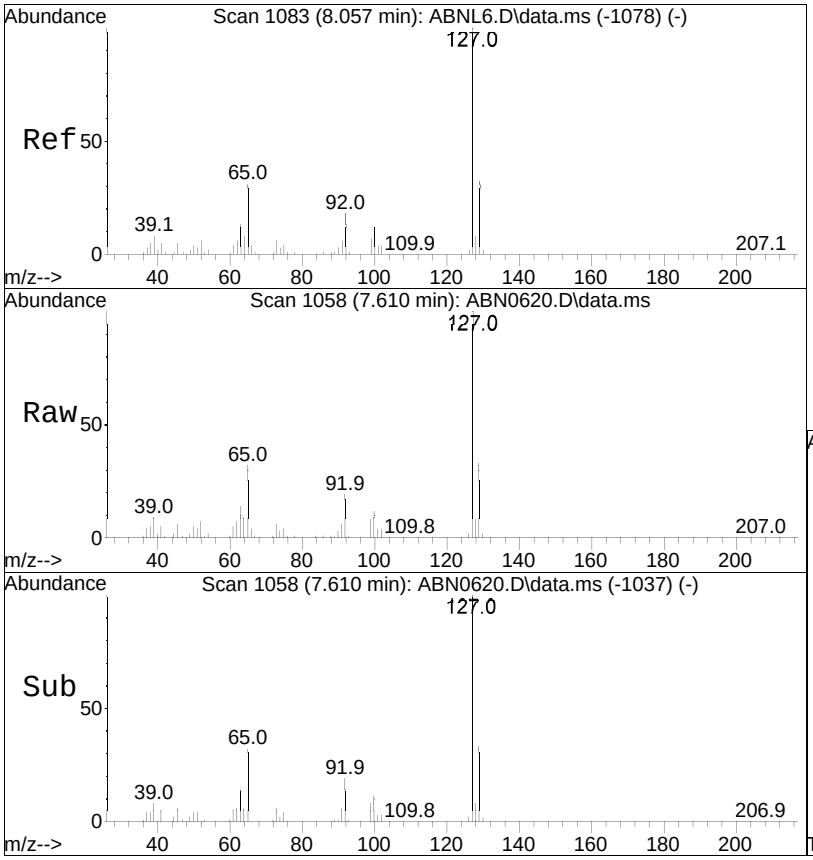


#36
Benzoic Acid
Concen: 5.21 ug/ml
RT: 7.328 min Scan# 1010
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:105 Resp: 56552

Ion	Ratio	Lower	Upper
105	100		
122	80.0	59.9	89.9
77	75.9	60.1	90.1

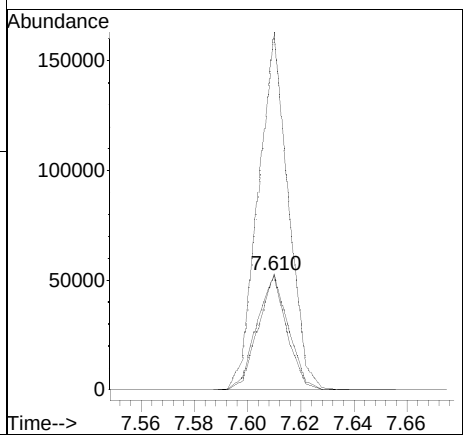


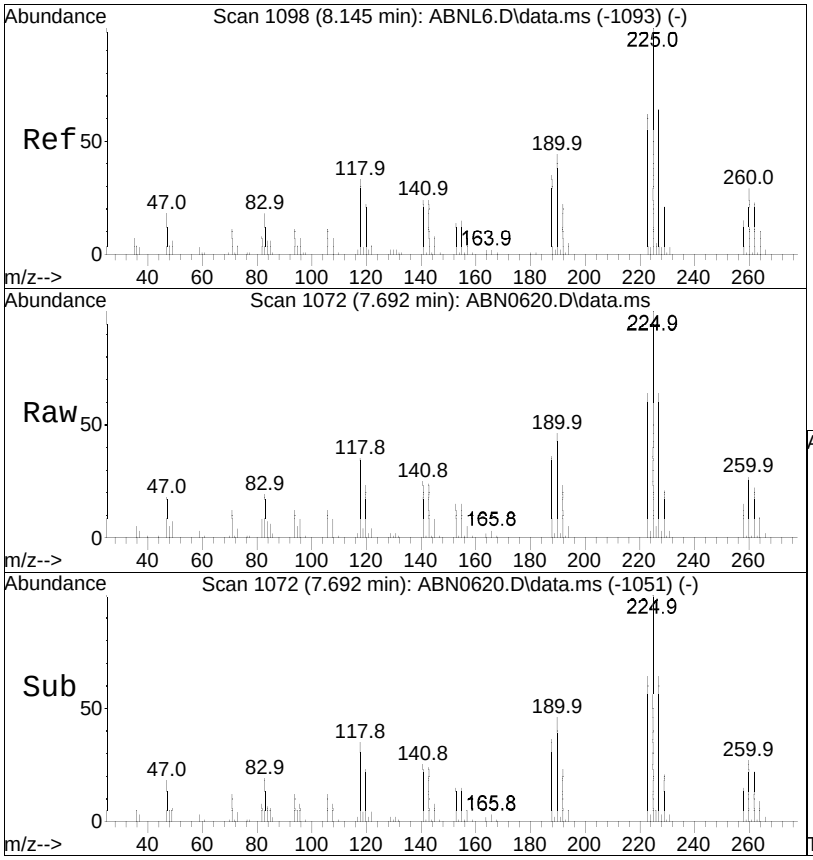


#37
4-Chloroaniline
Concen: 5.36 ug/ml
RT: 7.610 min Scan# 1058
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 65 Resp: 40721

Ion	Ratio	Lower	Upper
65	100		
127	310.2	237.6	356.4
129	100.5	76.3	114.5

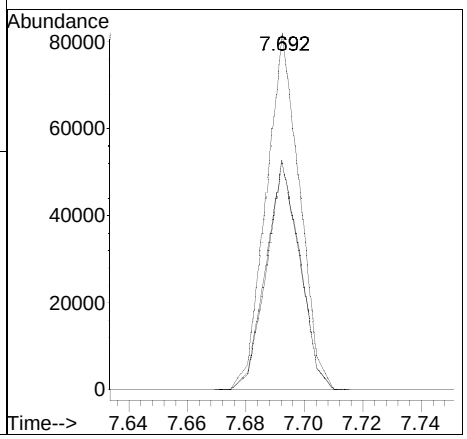


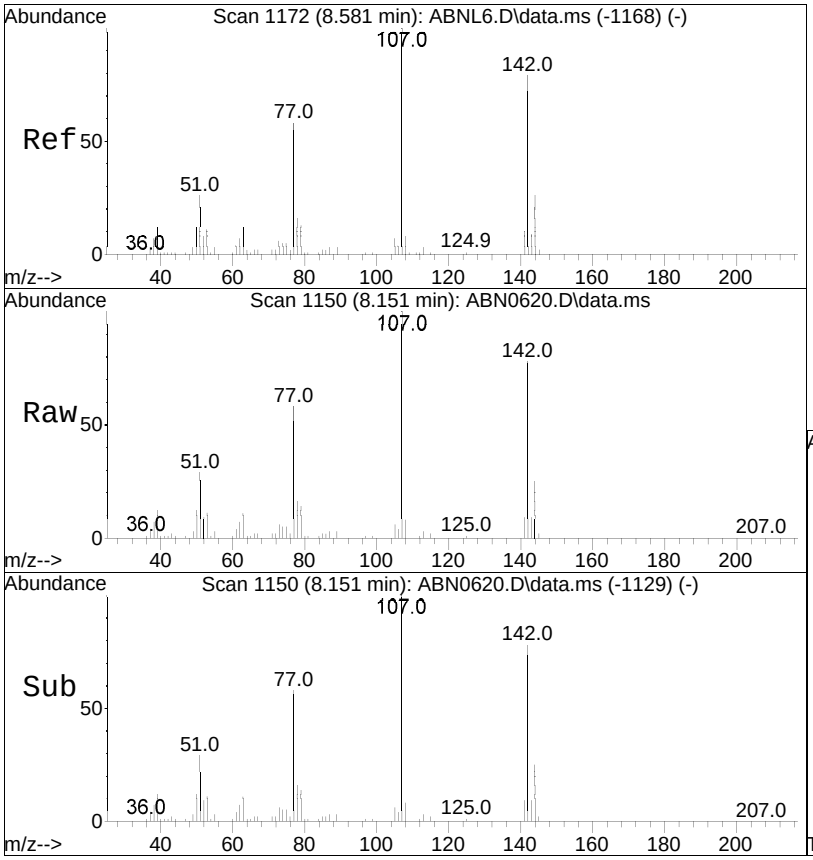


#38
Hexachlorobutadiene
Concen: 5.09 ug/ml
RT: 7.692 min Scan# 1072
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:225 Resp: 64857

Ion	Ratio	Lower	Upper
225	100		
223	65.1	50.3	75.5
227	64.3	52.2	78.2

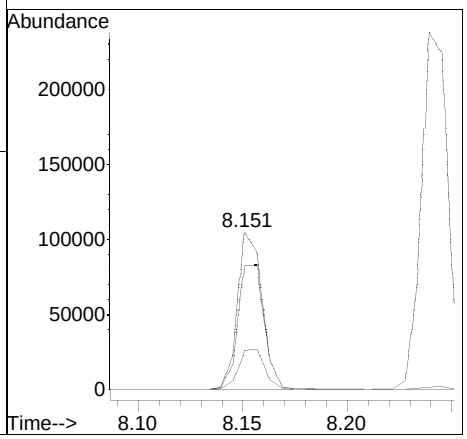


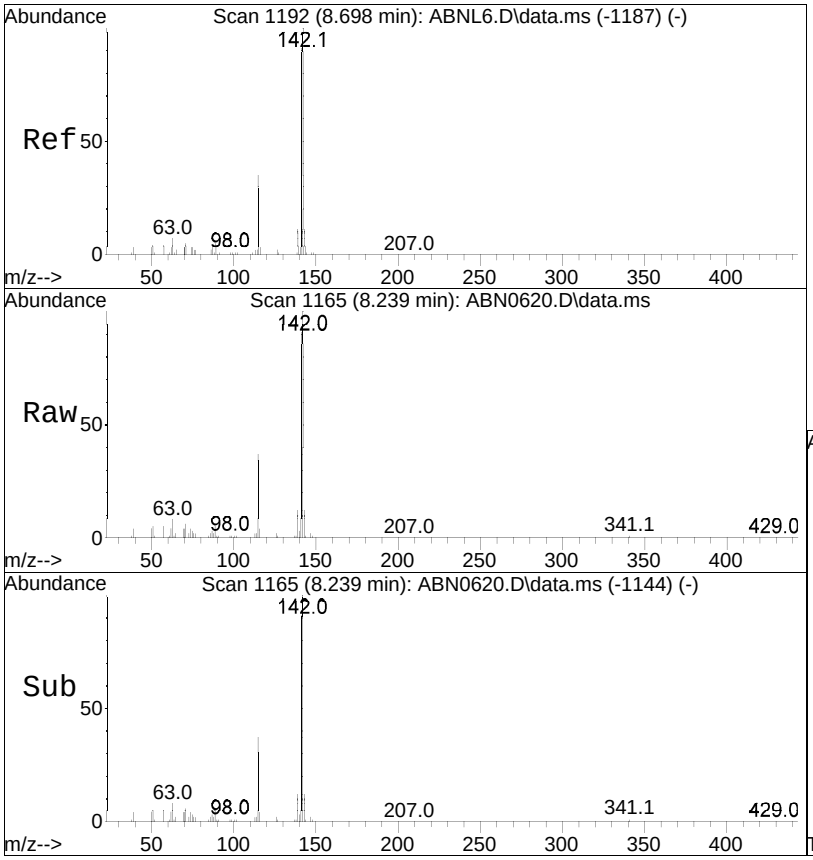


#39
p-Chloro-m-cresol
Concen: 5.24 ug/ml
RT: 8.151 min Scan# 1150
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:107 Resp: 86416

Ion	Ratio	Lower	Upper
107	100		
144	26.9	20.9	31.3
142	84.3	66.1	99.1

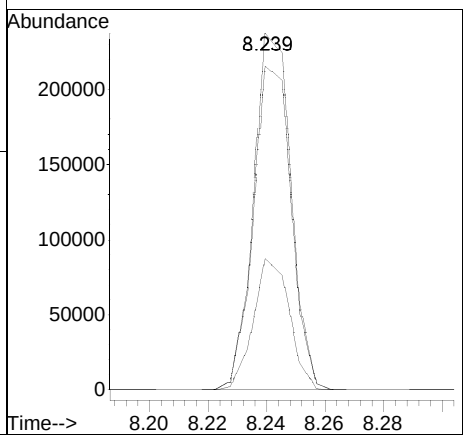


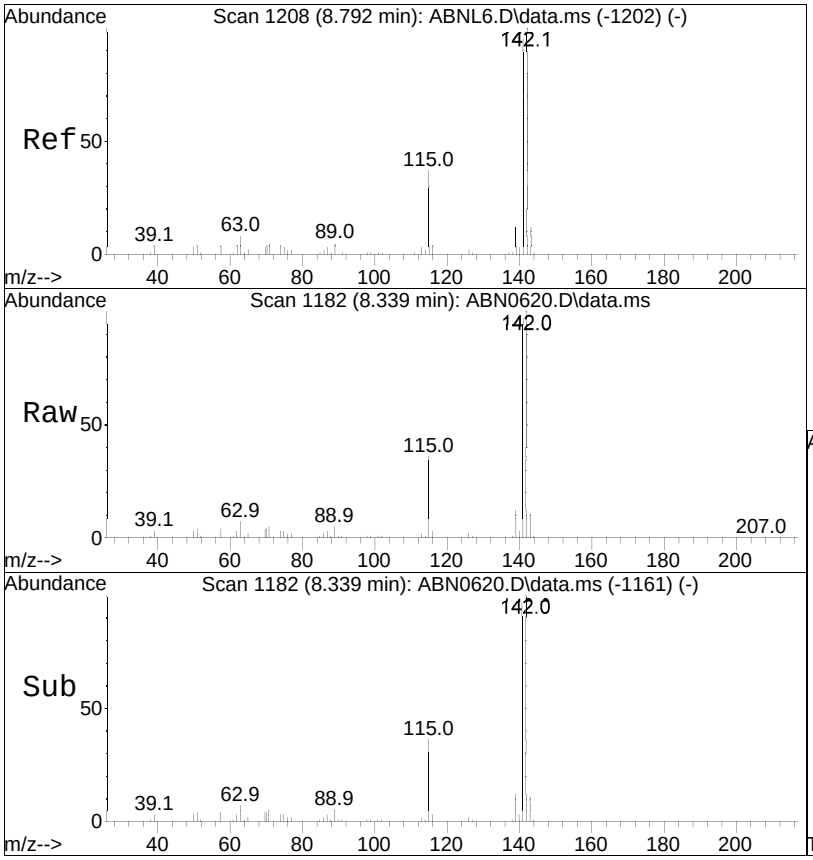


#40
2-Methylnaphthalene
Concen: 5.07 ug/ml
RT: 8.239 min Scan# 1165
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:142 Resp: 211330

Ion	Ratio	Lower	Upper
142	100		
141	91.7	69.6	104.4
115	35.6	26.6	40.0

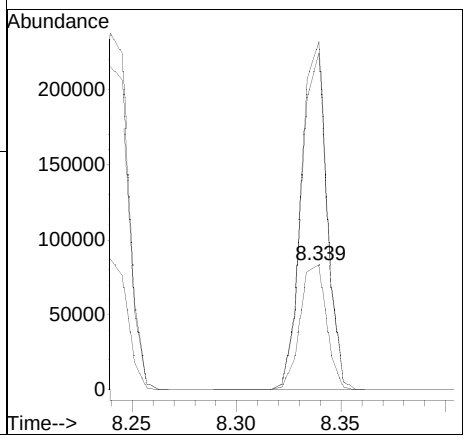


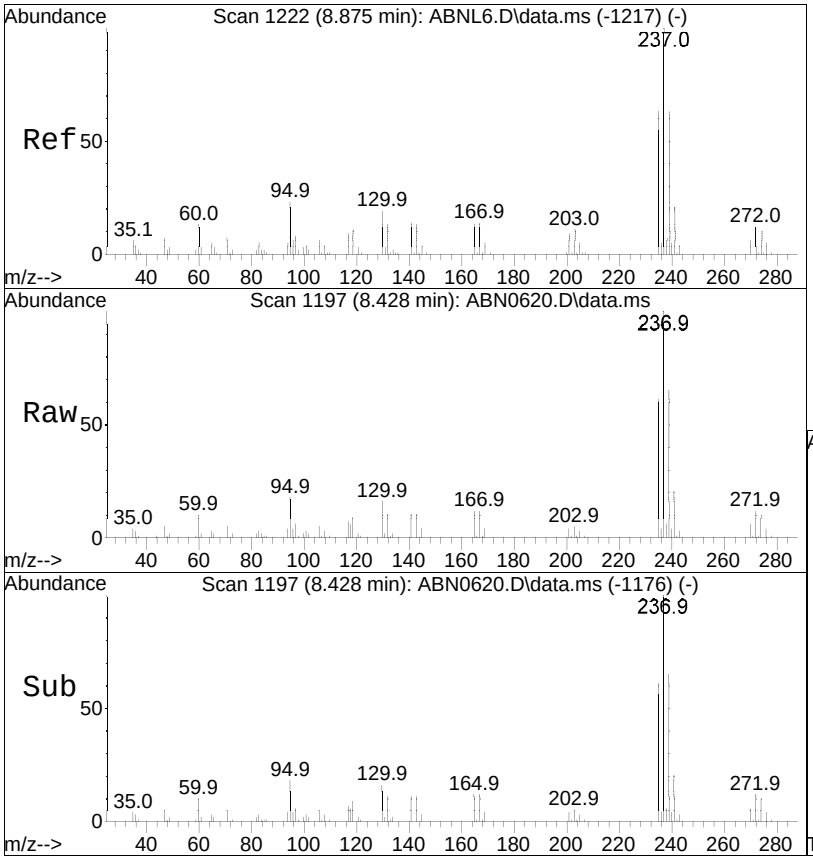


#41
1-Methylnaphthalene
Concen: 5.19 ug/ml
RT: 8.339 min Scan# 1182
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:115 Resp: 73717

Ion	Ratio	Lower	Upper
115	100		
141	258.8	207.8	311.6
142	270.7	226.8	340.2

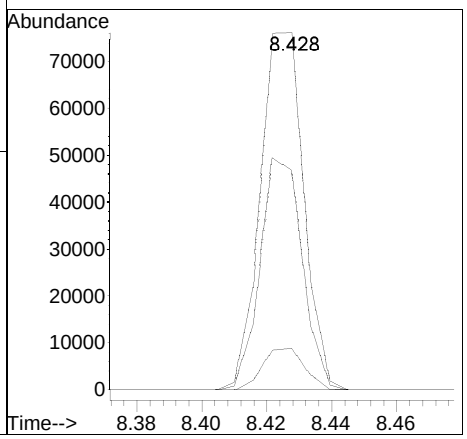


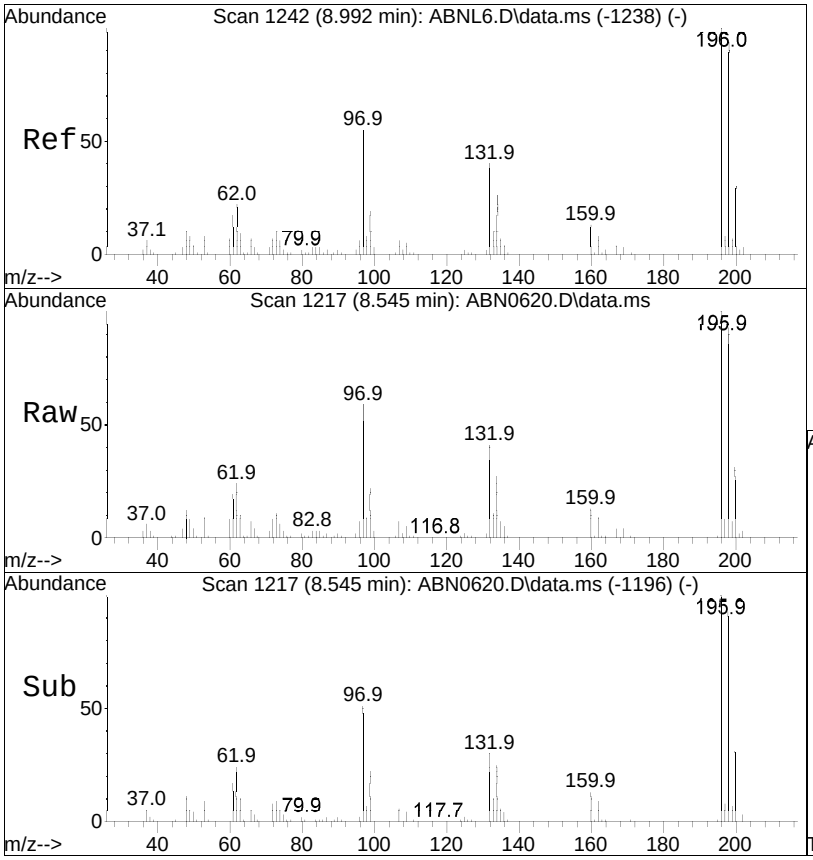


#42
Hexachlorocyclopentadiene
Concen: 5.70 ug/ml
RT: 8.428 min Scan# 1197
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:237 Resp: 70774

Ion	Ratio	Lower	Upper
237	100		
235	62.8	49.7	74.5
272	11.4	9.8	14.6

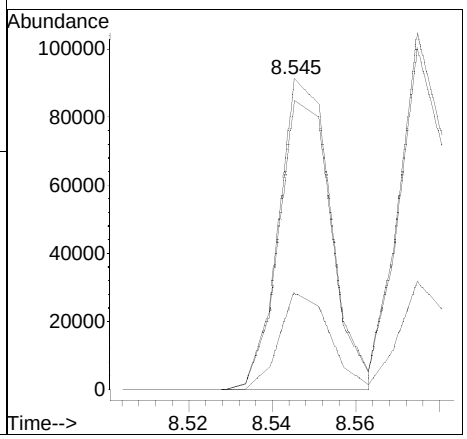


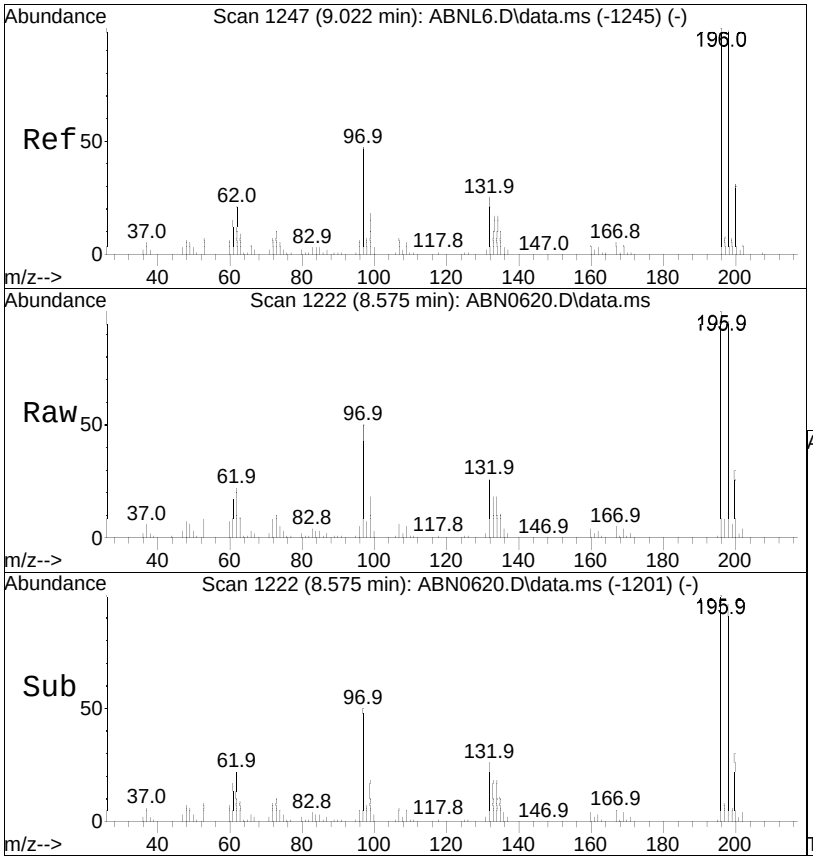


#43
2,4,6-Trichlorophenol
Concen: 5.54 ug/ml
RT: 8.545 min Scan# 1217
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:196 Resp: 79464

Ion	Ratio	Lower	Upper
196	100		
198	94.0	77.5	116.3
200	30.4	23.8	35.6

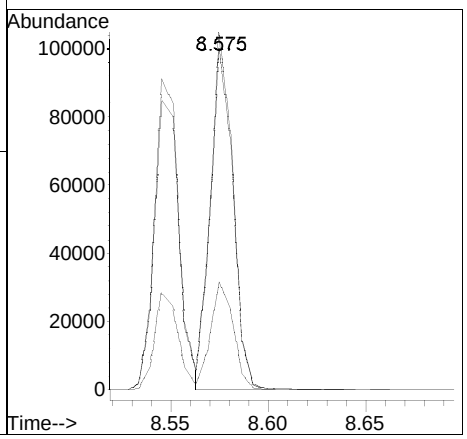


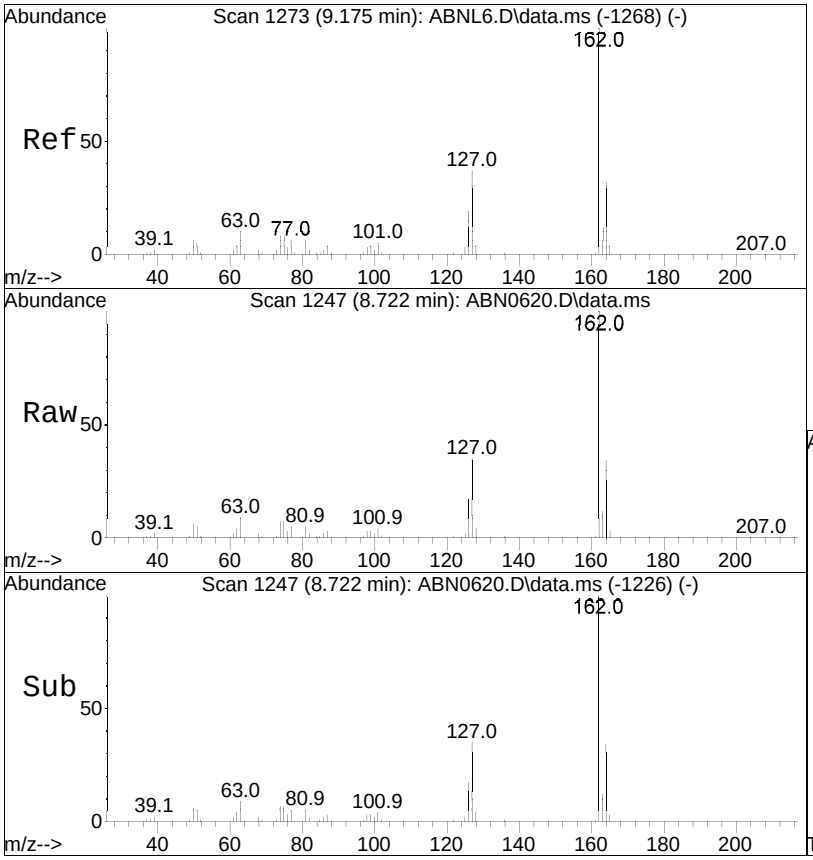


#44
2,4,5-Trichlorophenol
Concen: 5.51 ug/ml
RT: 8.575 min Scan# 1222
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:196 Resp: 83738

Ion	Ratio	Lower	Upper
196	100		
200	30.5	25.4	38.0
198	95.3	78.0	117.0

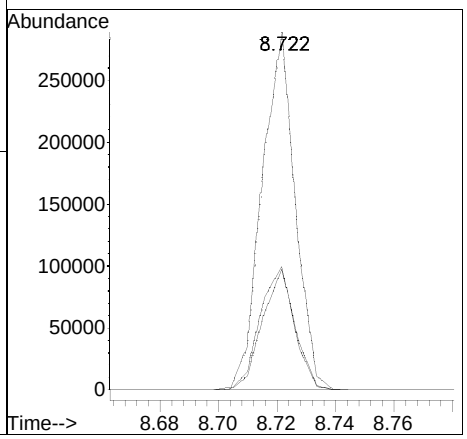


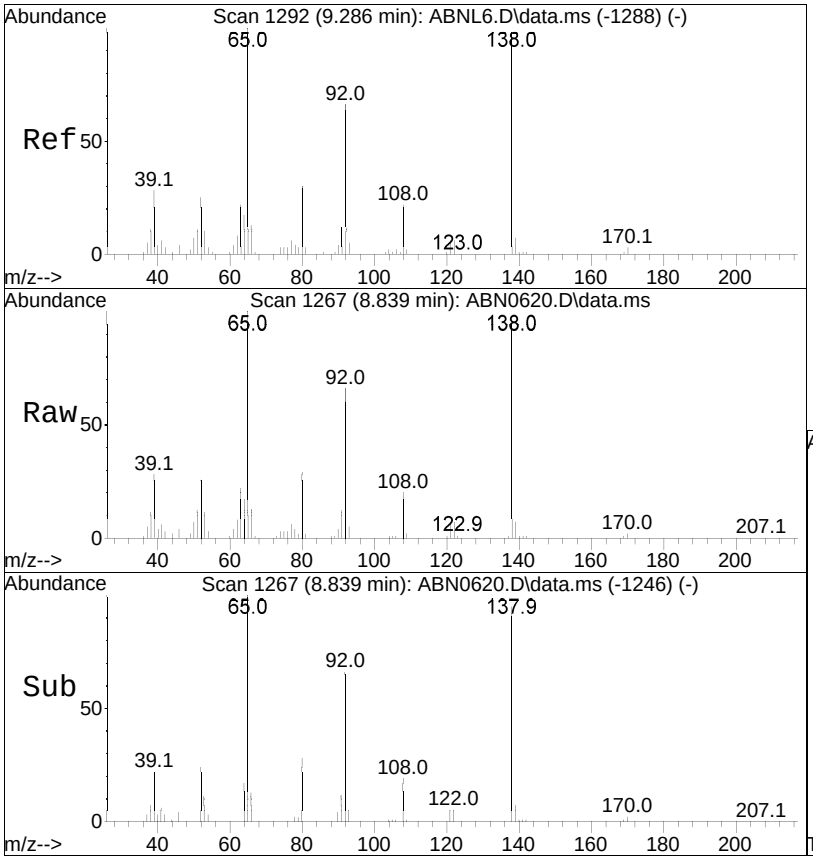


#46
2-Chloronaphthalene
Concen: 5.21 ug/ml
RT: 8.722 min Scan# 1247
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:162 Resp: 225354

Ion	Ratio	Lower	Upper
162	100		
127	35.6	32.2	48.4
164	33.5	25.7	38.5

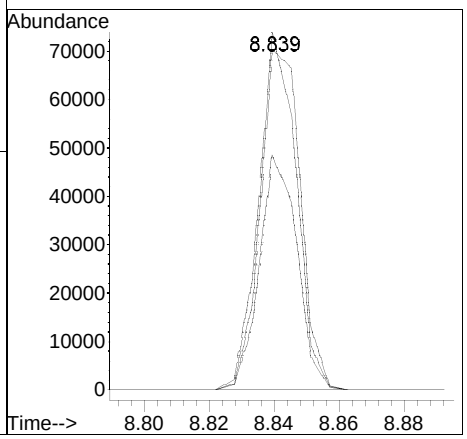


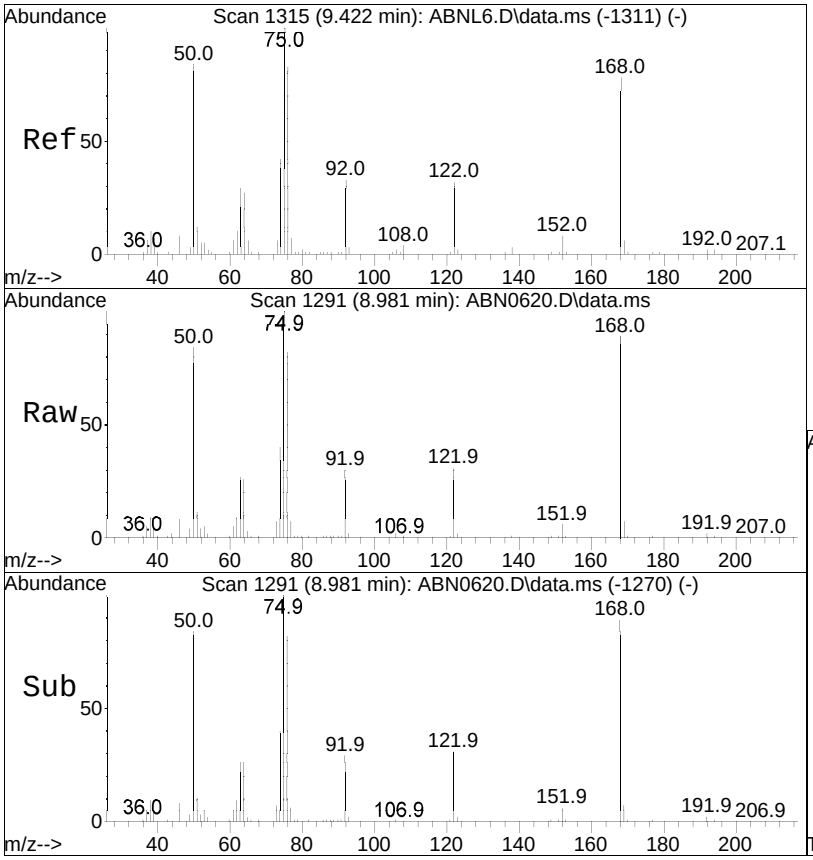


#47
2-Nitroaniline
Concen: 5.72 ug/ml
RT: 8.839 min Scan# 1267
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:138 Resp: 59861

Ion	Ratio	Lower	Upper
138	100		
92	64.7	53.5	80.3
65	97.6	86.3	129.5

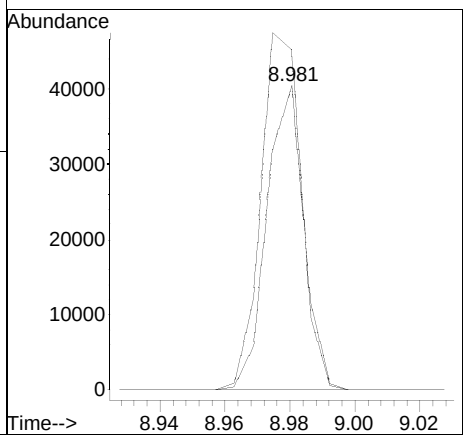


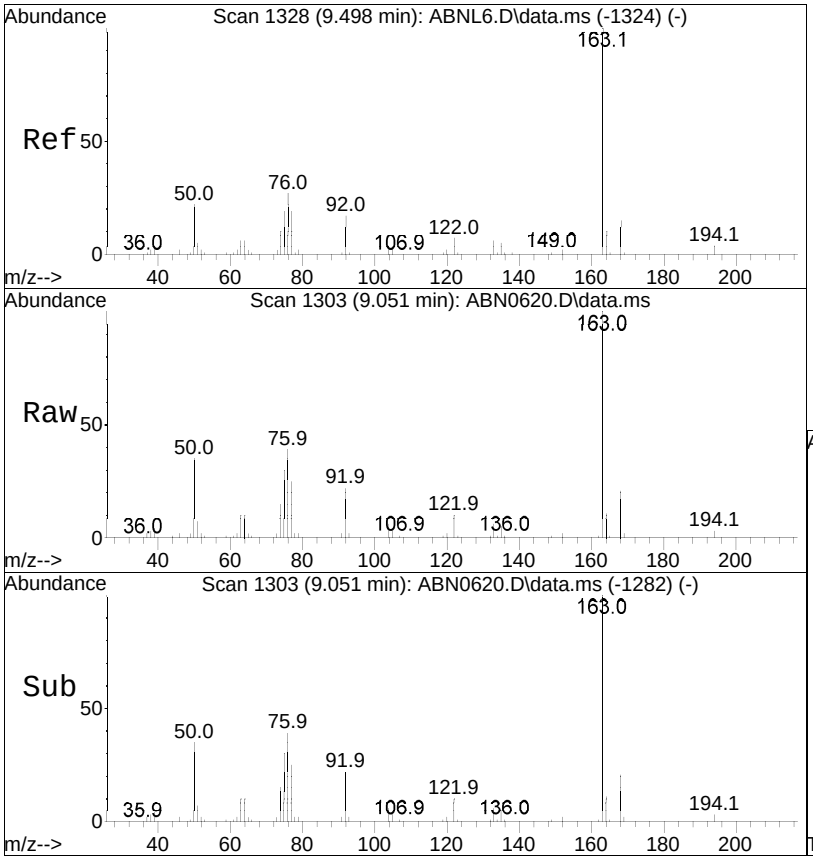


#48
1,4-Dinitrobenzene
Concen: 6.08 ug/ml
RT: 8.981 min Scan# 1291
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:168 Resp: 31988

Ion	Ratio	Lower	Upper
168	100		
75	127.8	121.8	182.8

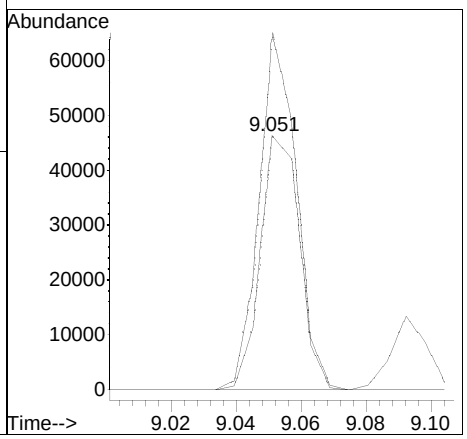


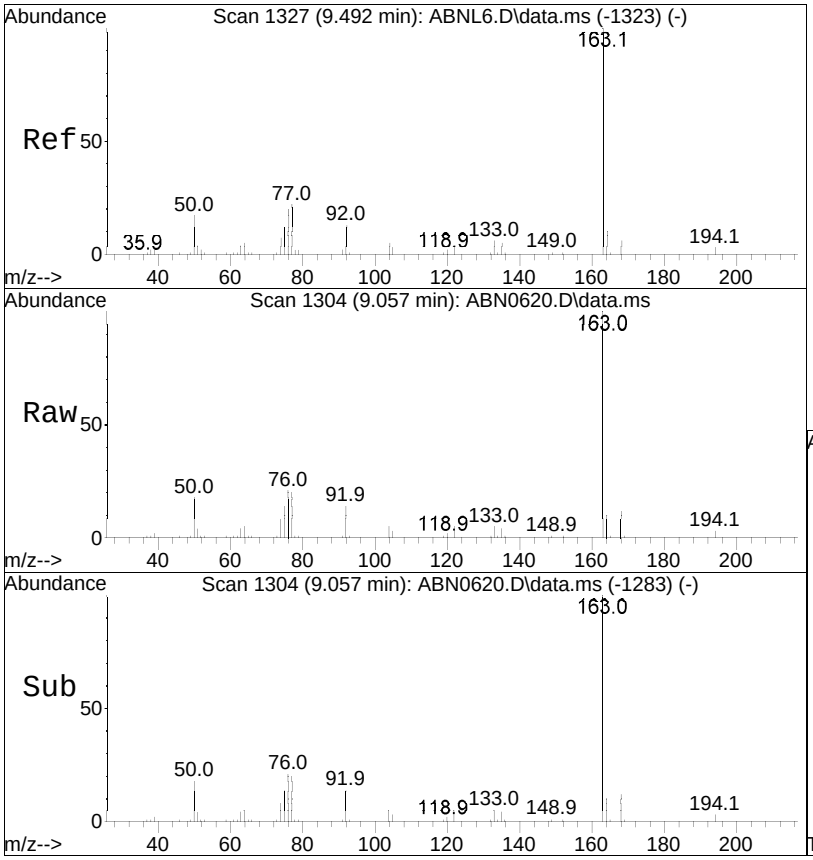


#49
1,3-Dinitrobenzene
Concen: 5.85 ug/ml
RT: 9.051 min Scan# 1303
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:168 Resp: 38492

Ion	Ratio	Lower	Upper
168	100		
75	133.1	22.7	34.1#

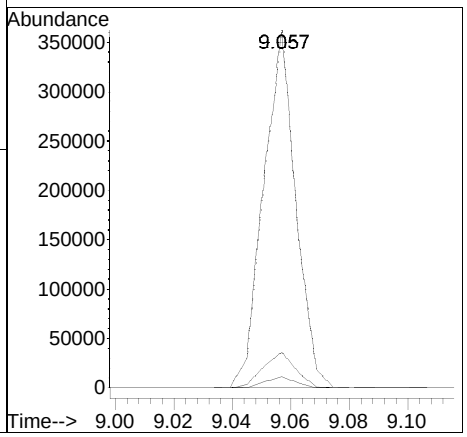


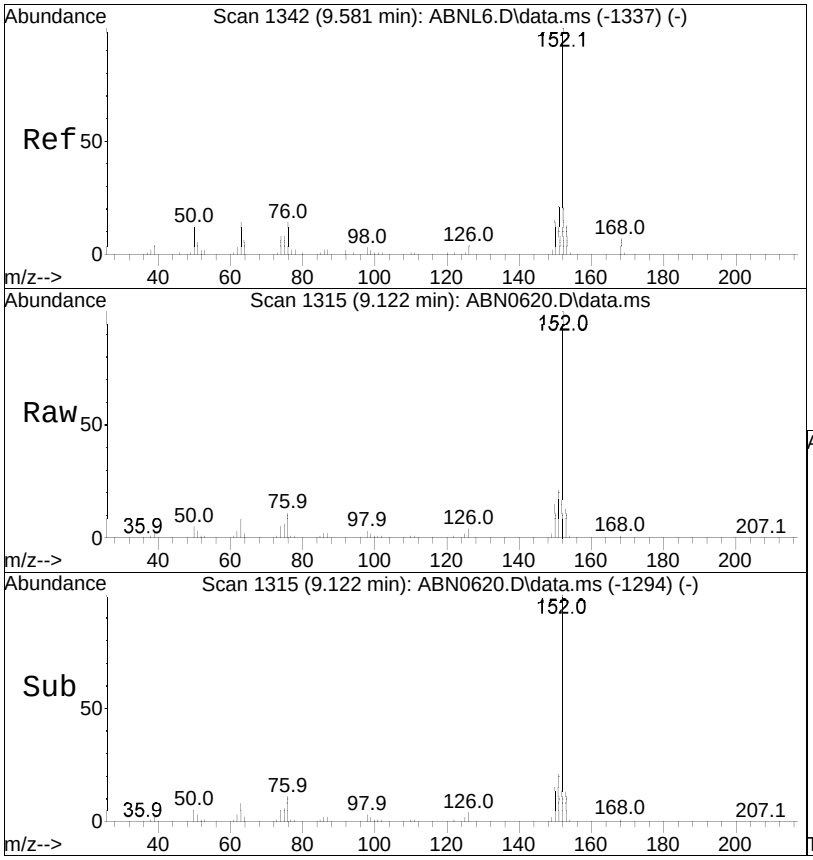


#50
Dimethyl phthalate
Concen: 5.38 ug/ml
RT: 9.057 min Scan# 1304
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:163 Resp: 273292

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.3	7.9	11.9

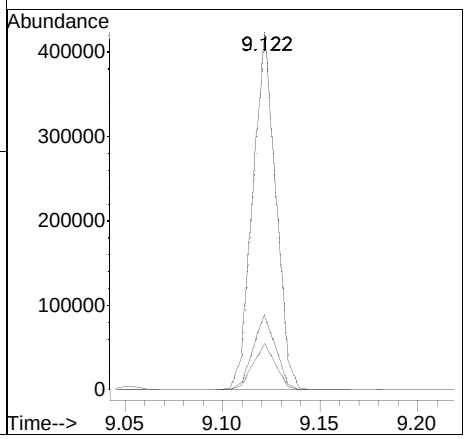


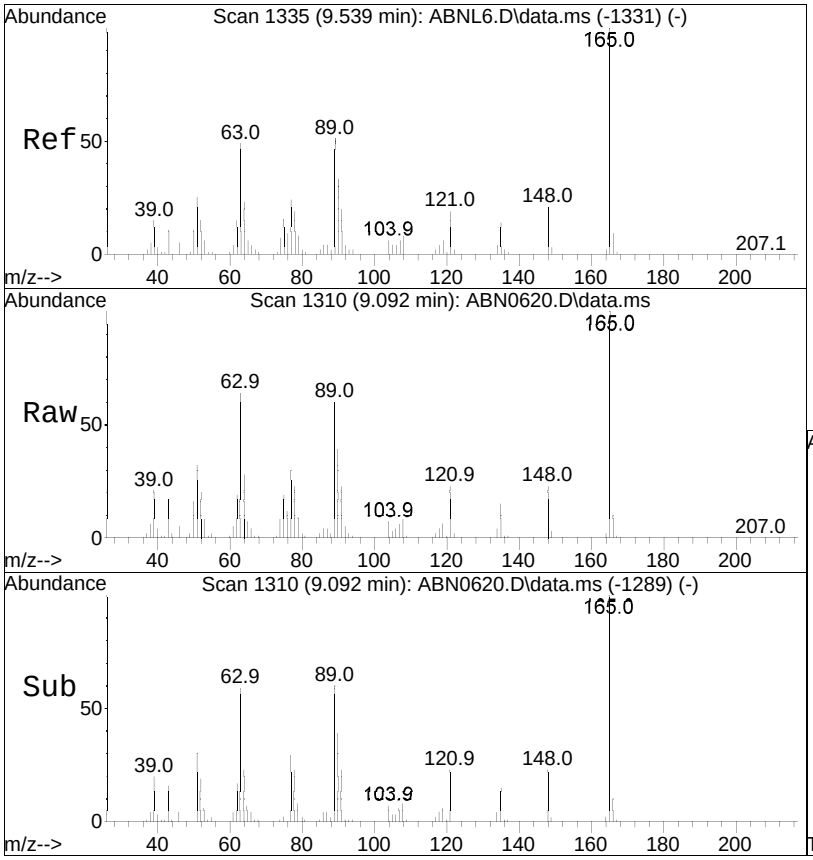


#51
Acenaphthylene
Concen: 5.23 ug/ml
RT: 9.122 min Scan# 1315
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:152 Resp: 341710

Ion	Ratio	Lower	Upper
152	100		
151	21.0	15.8	23.6
153	12.9	10.5	15.7

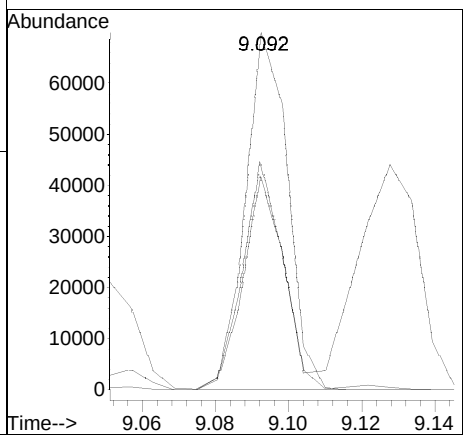


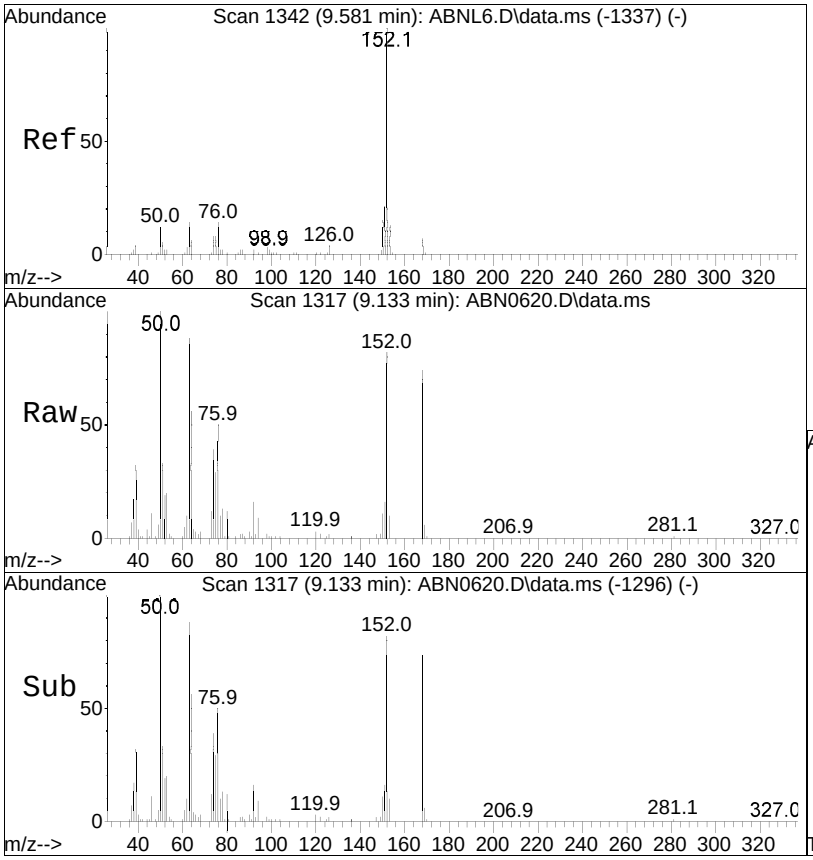


#52
2,6-Dinitrotoluene
Concen: 6.08 ug/ml
RT: 9.092 min Scan# 1310
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:165 Resp: 56095

Ion	Ratio	Lower	Upper
165	100		
89	57.9	54.2	81.2
63	60.5	64.2	96.2#

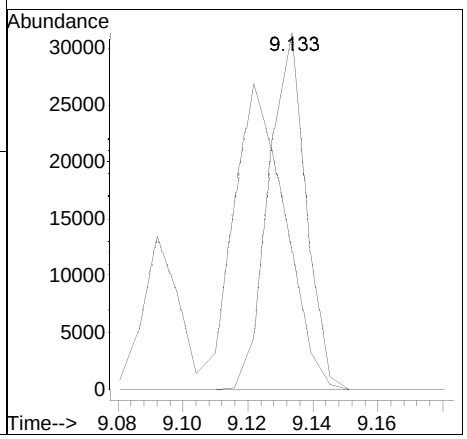


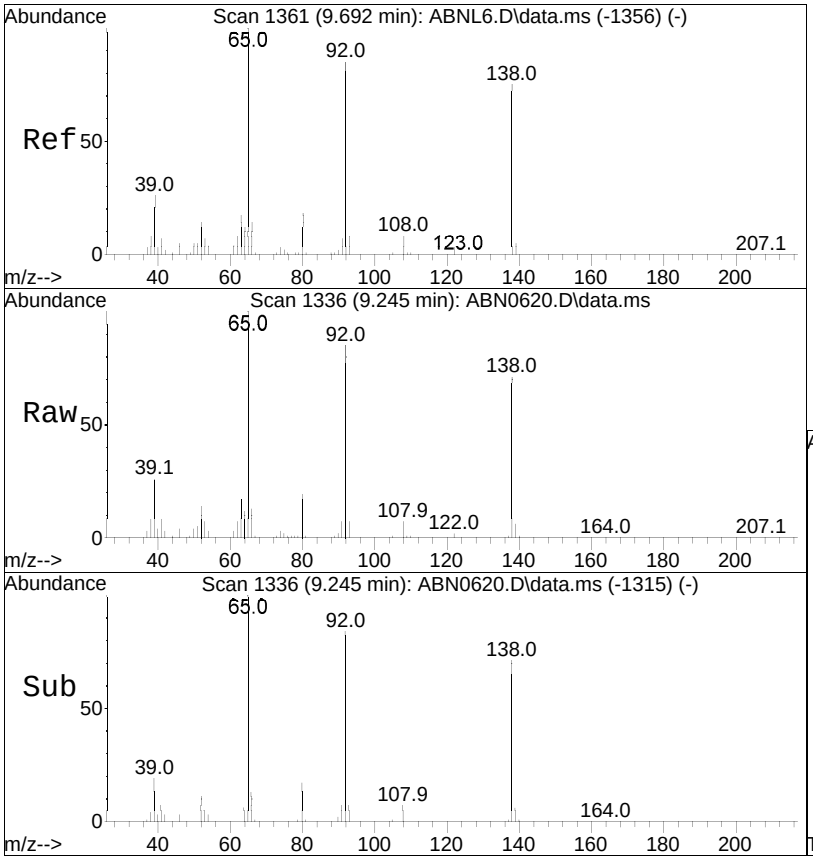


#53
1,2-Dinitrobenzene
Concen: 6.06 ug/ml
RT: 9.133 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:168 Resp: 25005

Ion	Ratio	Lower	Upper
168	100		
75	117.7	30.9	46.3#

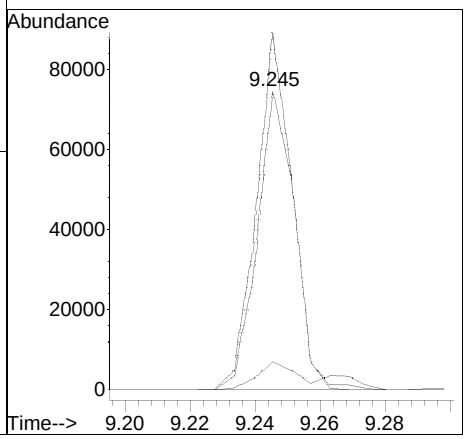


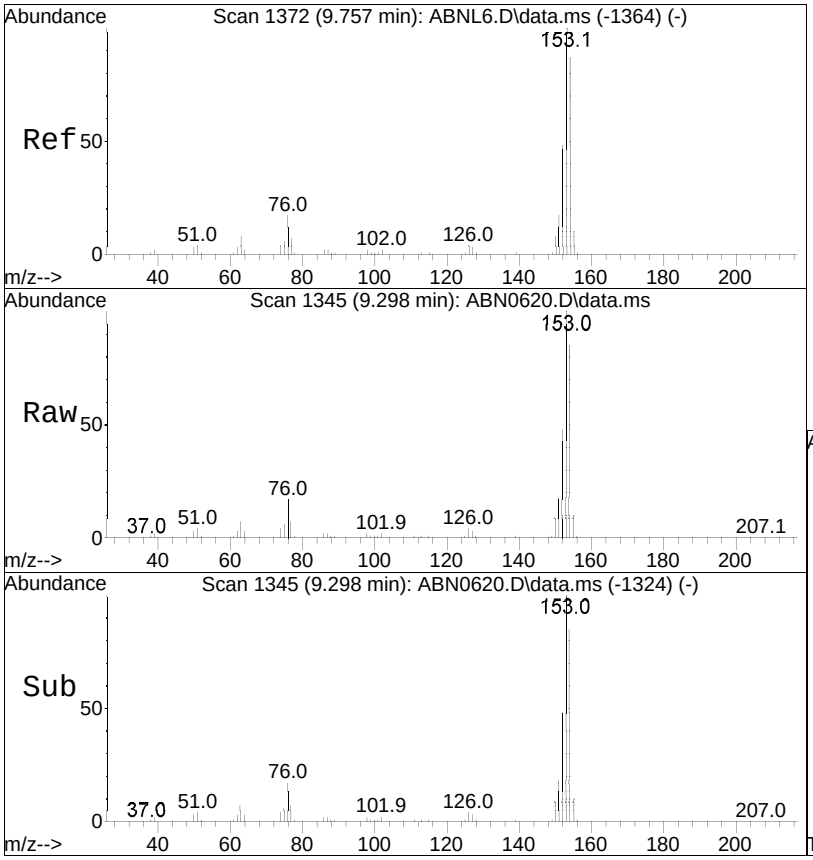


#63
3-Nitroaniline
Concen: 5.74 ug/ml
RT: 9.245 min Scan# 1336
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:138 Resp: 58197

Ion	Ratio	Lower	Upper
138	100		
92	116.3	93.4	140.2
108	14.8	9.5	14.3#

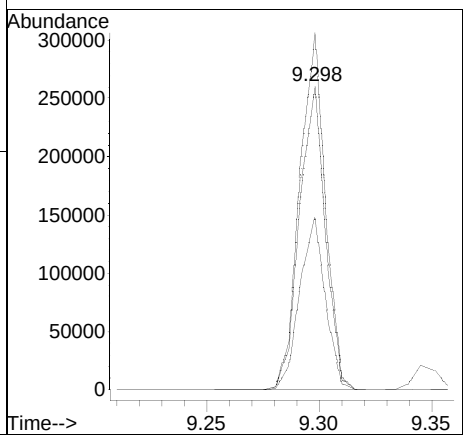


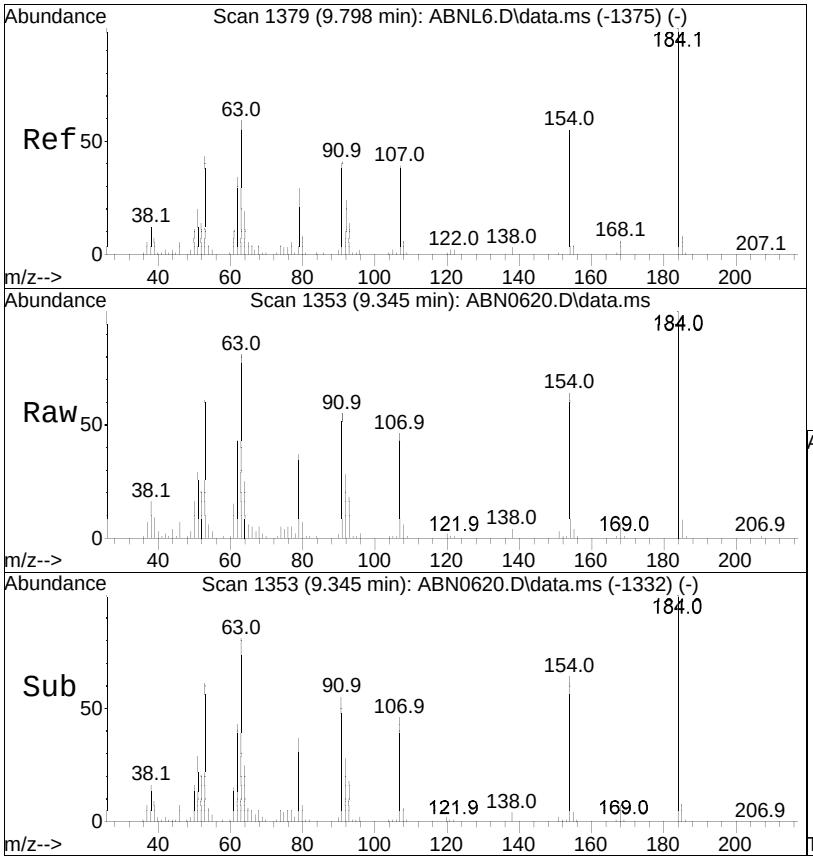


#64
Acenaphthene
Concen: 4.92 ug/ml
RT: 9.298 min Scan# 1345
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:154 Resp: 207507

Ion	Ratio	Lower	Upper
154	100		
153	116.7	85.3	127.9
152	56.7	41.4	62.0

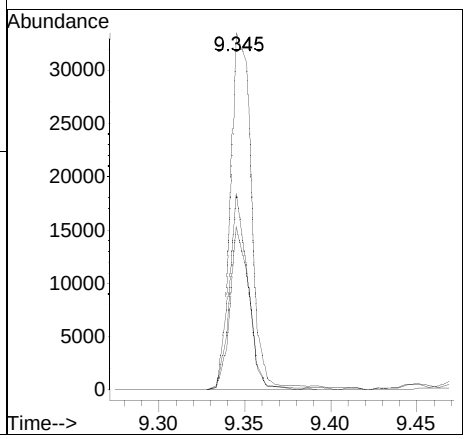


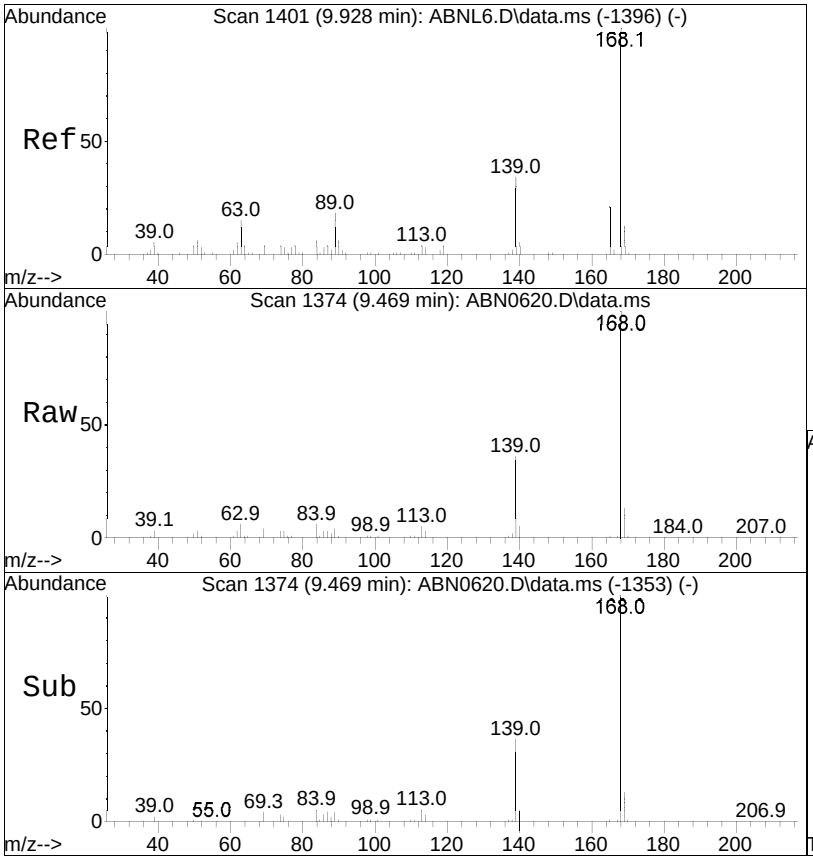


#65
2,4-Dinitrophenol
Concen: 5.24 ug/ml
RT: 9.345 min Scan# 1353
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:184 Resp: 28755

Ion	Ratio	Lower	Upper
184	100		
107	41.3	37.7	56.5
91	47.6	46.3	69.5

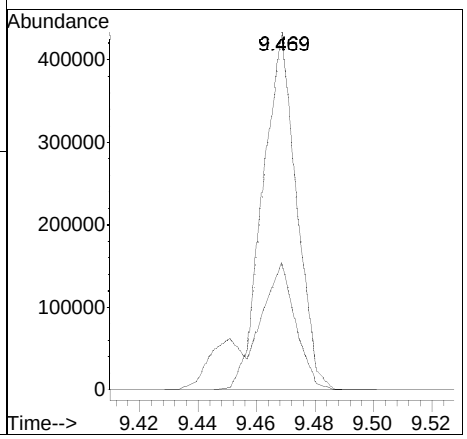


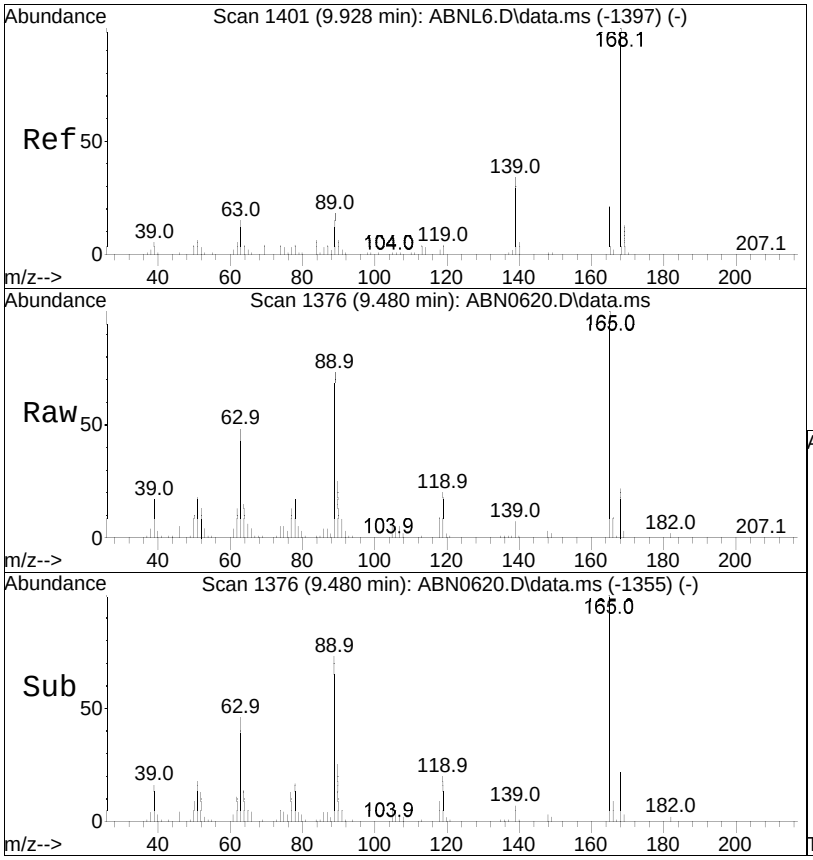


#66
Dibenzofuran
Concen: 4.99 ug/ml
RT: 9.469 min Scan# 1374
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:168 Resp: 342255

Ion	Ratio	Lower	Upper
168	100		
139	49.6	31.4	47.2#

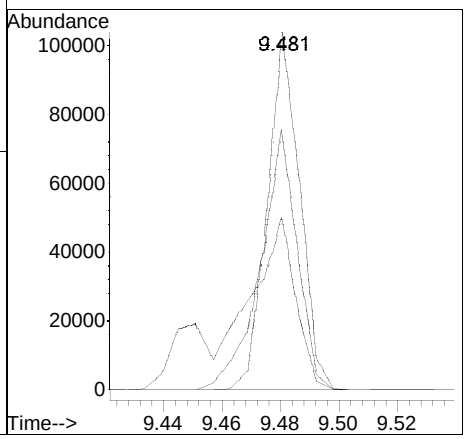


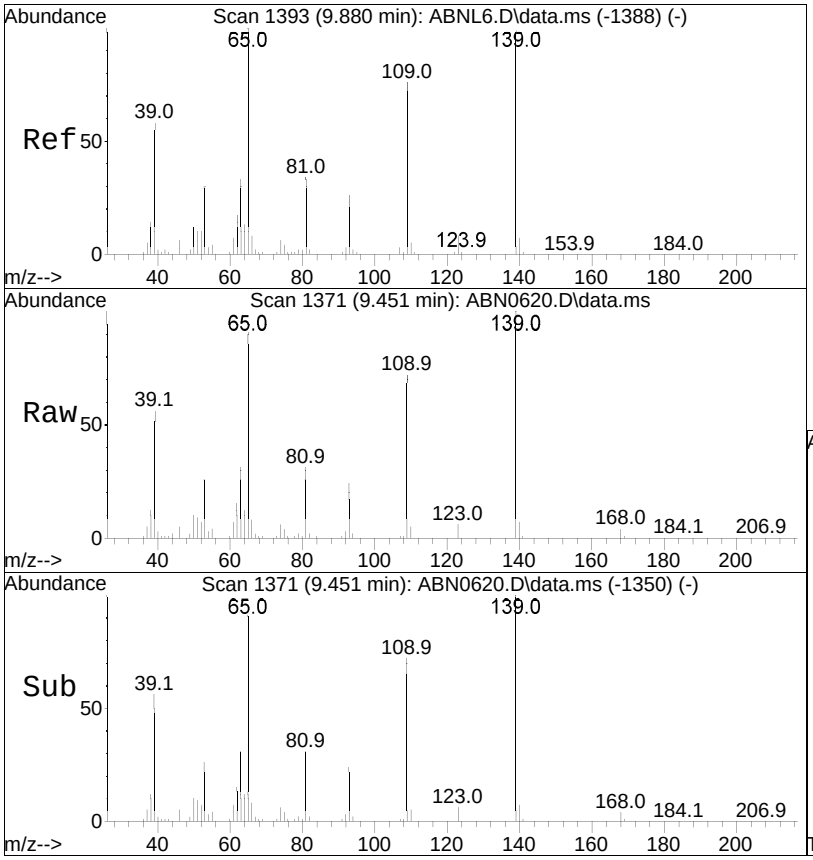


#67
2,4-Dinitrotoluene
Concen: 5.22 ug/ml
RT: 9.480 min Scan# 1376
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:165 Resp: 78977

Ion	Ratio	Lower	Upper
165	100		
89	82.9	72.0	108.0
63	67.1	52.7	79.1

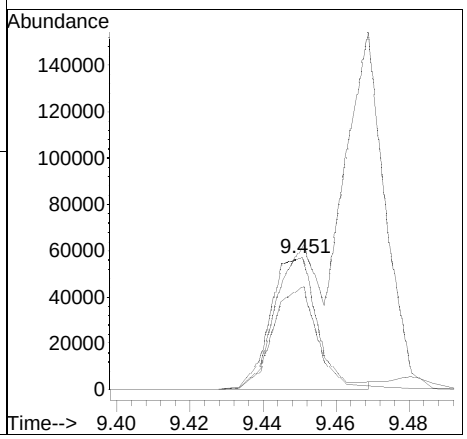


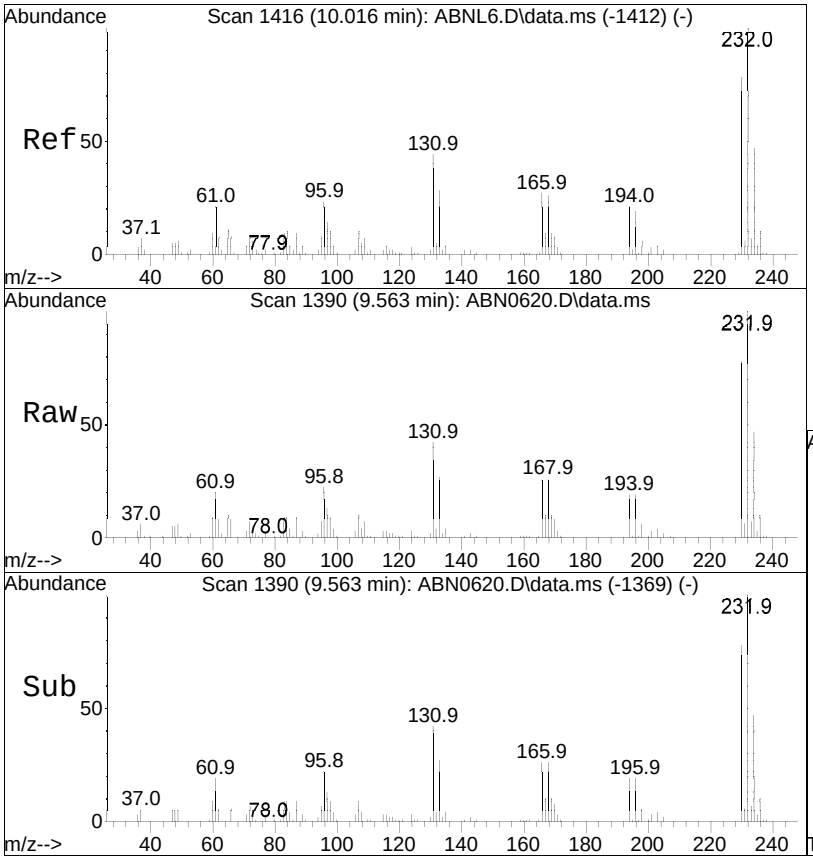


#68
4-Nitrophenol
Concen: 5.91 ug/ml
RT: 9.451 min Scan# 1371
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 65 Resp: 51054

Ion	Ratio	Lower	Upper
65	100		
109	74.6	47.4	71.2#
139	0.0	76.6	115.0#

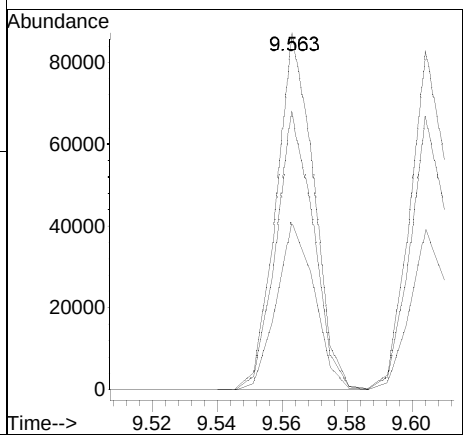


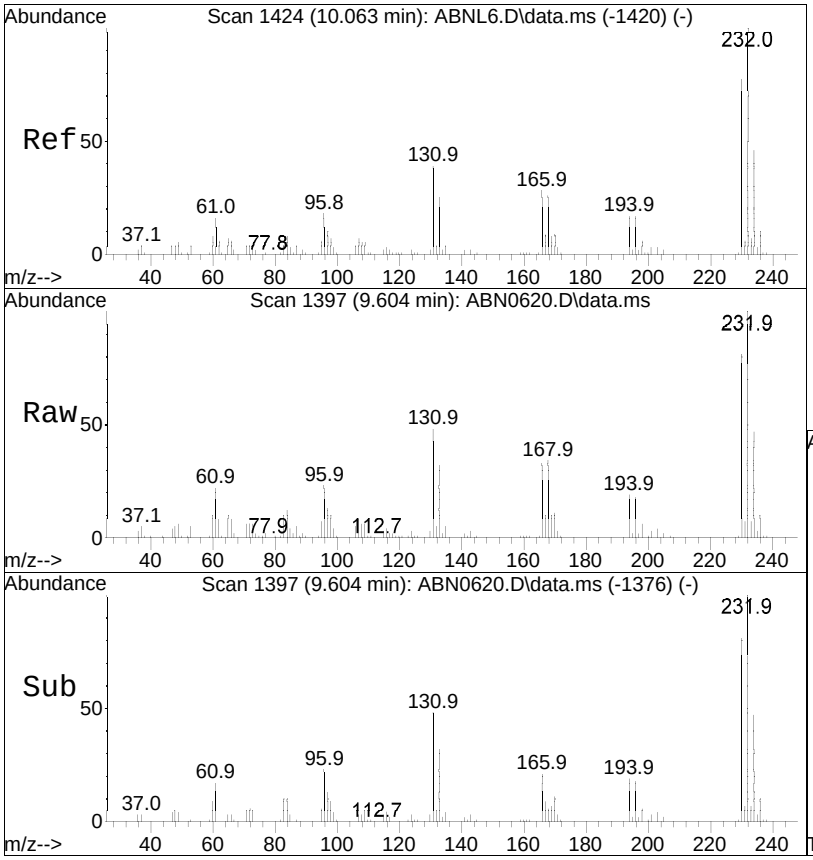


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.65 ug/ml
RT: 9.563 min Scan# 1390
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:232 Resp: 70104

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.5	38.1	57.1

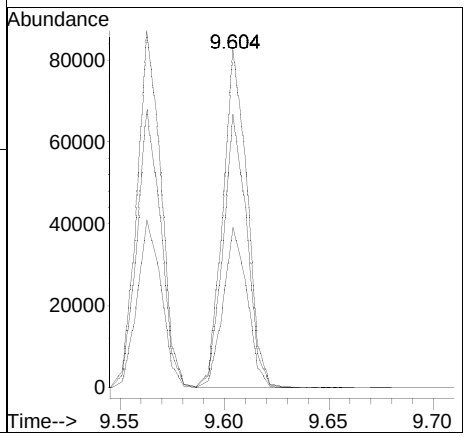


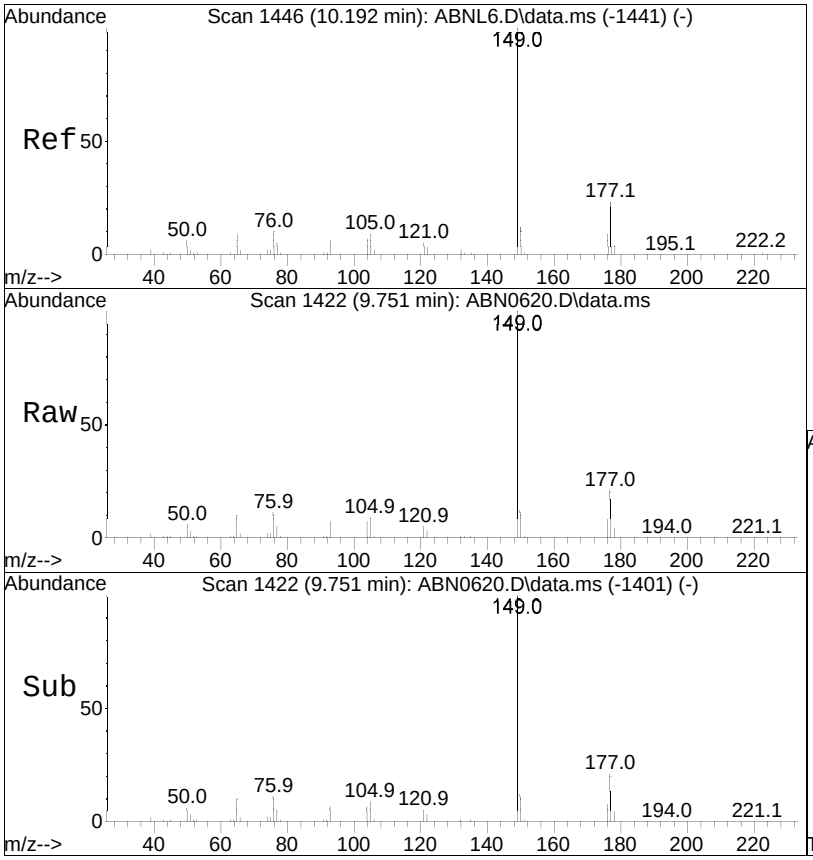


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.49 ug/ml
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:232 Resp: 67277

Ion	Ratio	Lower	Upper
232	100		
230	79.2	61.8	92.8
234	46.8	36.2	54.2

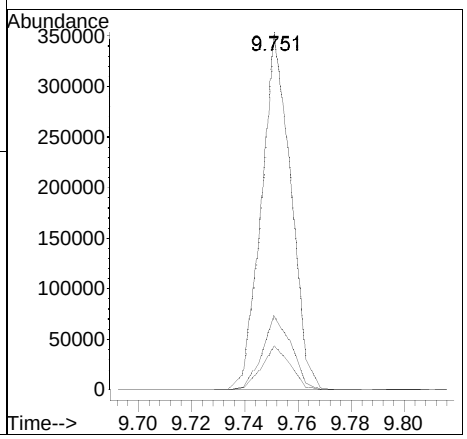


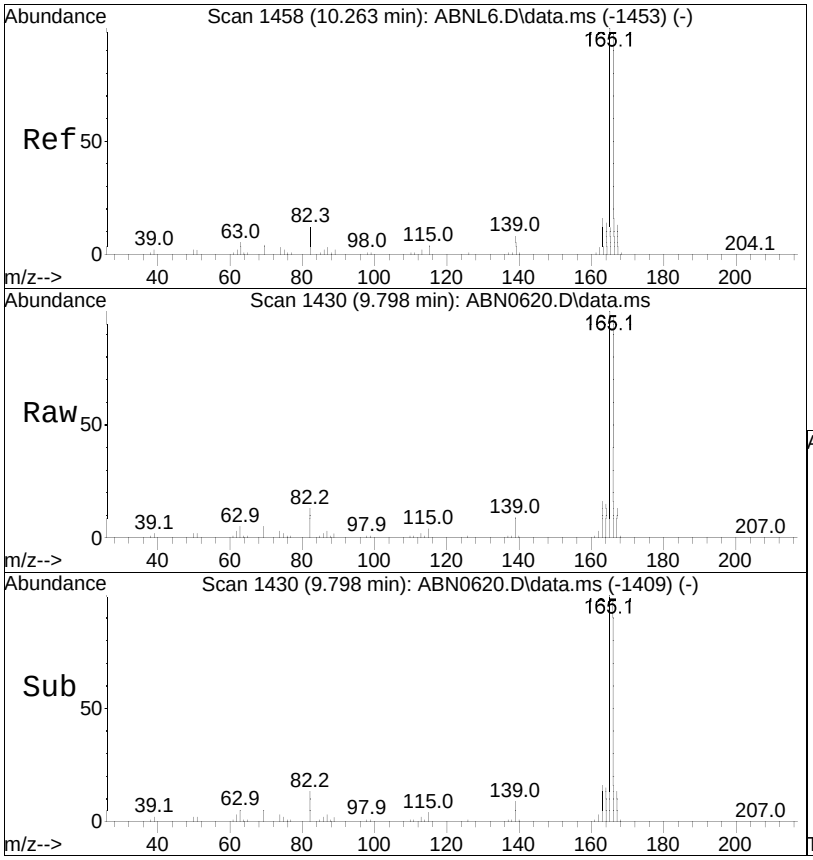


#71
Diethyl phthalate
Concen: 5.25 ug/ml
RT: 9.751 min Scan# 1422
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:149 Resp: 267027

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.1	24.1
150	12.3	9.4	14.2

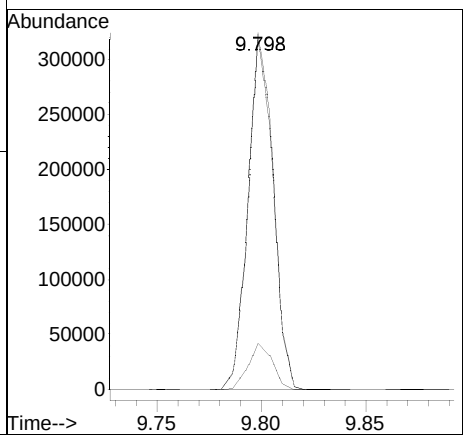


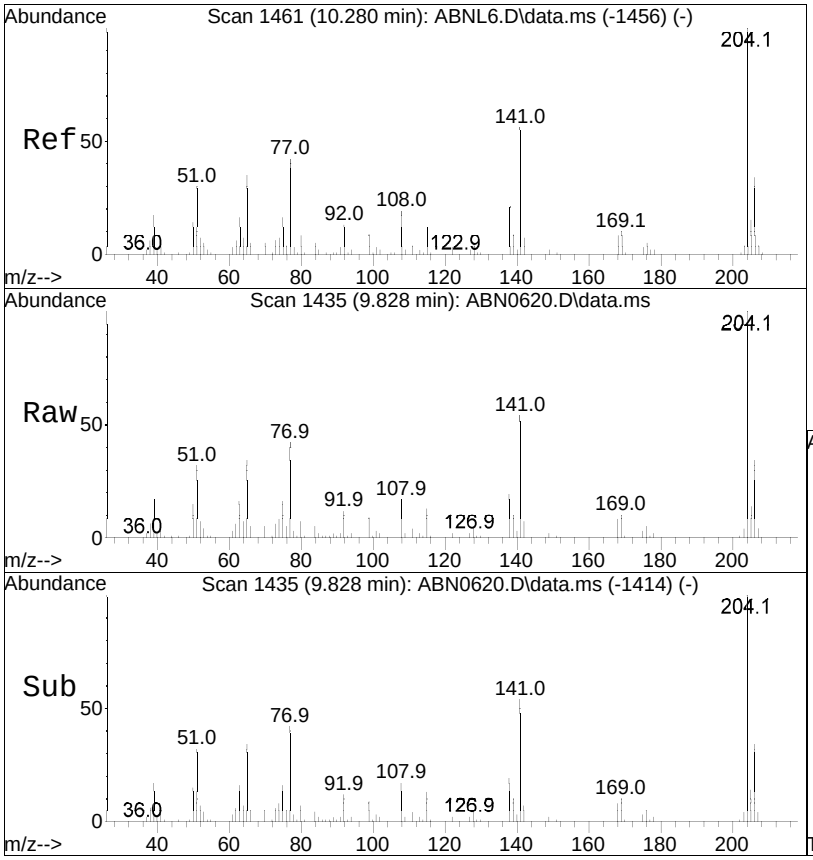


#72
Fluorene
Concen: 5.10 ug/ml
RT: 9.798 min Scan# 1430
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:166 Resp: 264297

Ion	Ratio	Lower	Upper
166	100		
165	103.2	76.2	114.2
167	13.3	10.6	15.8

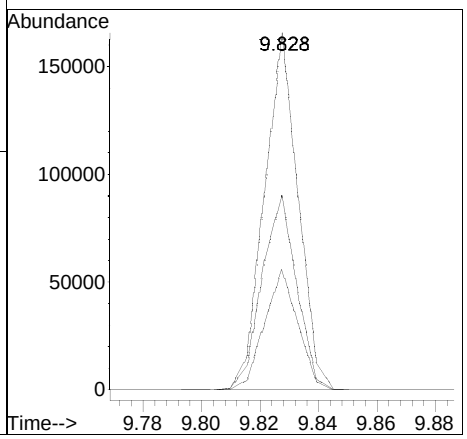


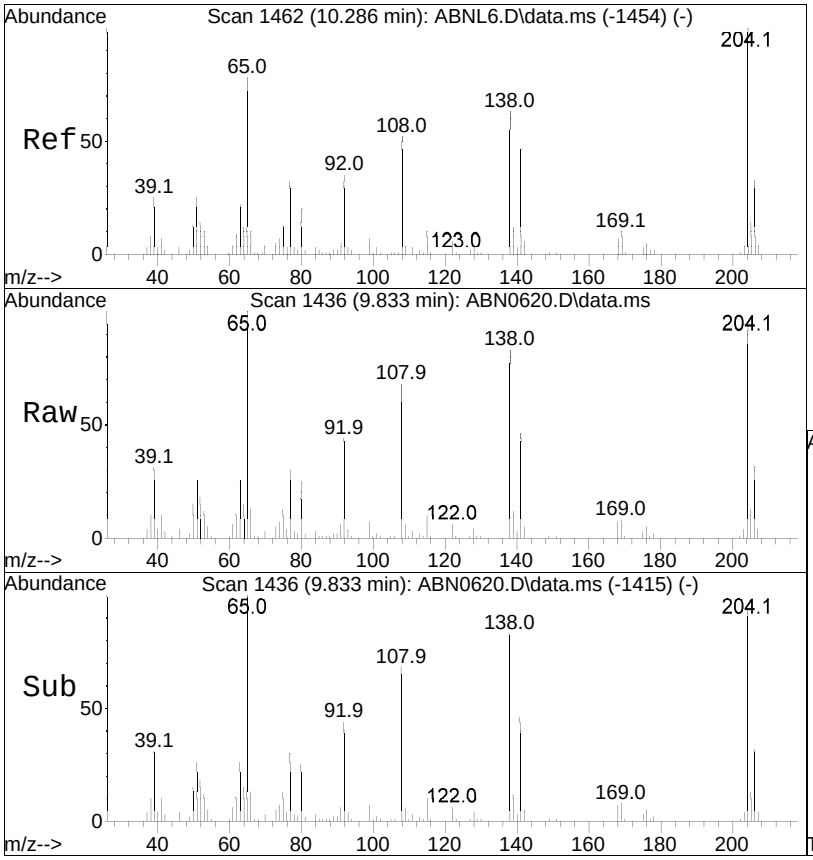


#73
4-Chlorophenyl phenyl ether
Concen: 4.99 ug/ml
RT: 9.828 min Scan# 1435
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:204 Resp: 131042

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.6
141	56.3	53.6	80.4

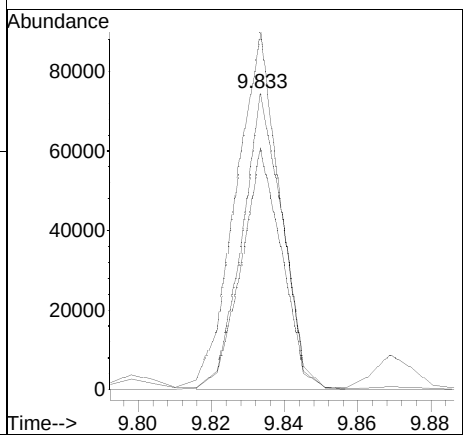


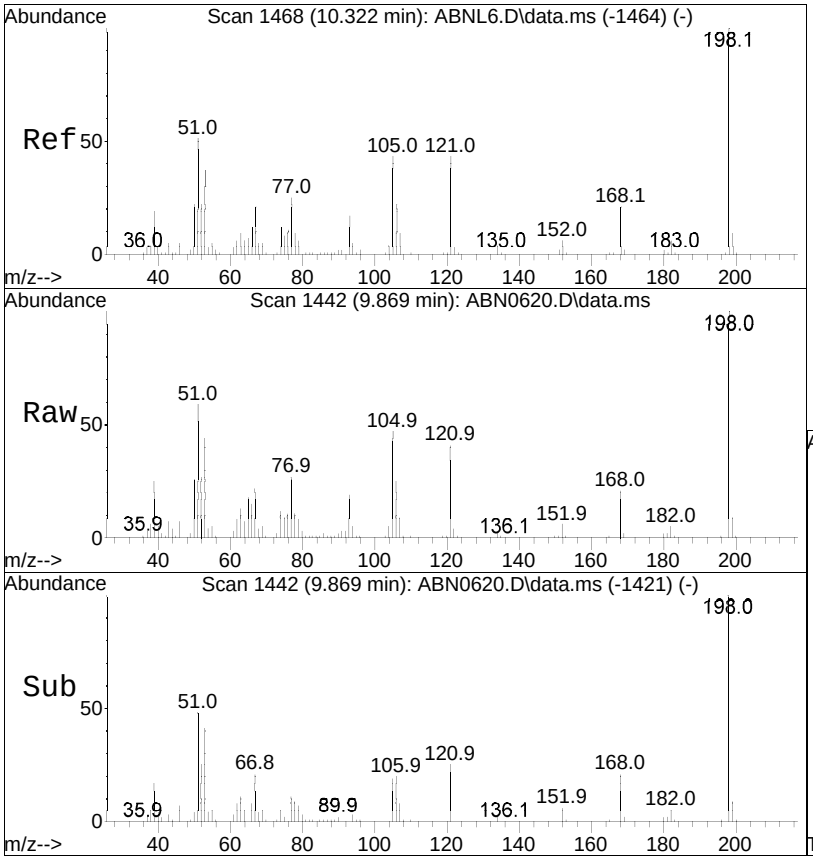


#74
4-Nitroaniline
Concen: 5.55 ug/ml
RT: 9.833 min Scan# 1436
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:138 Resp: 56917

Ion	Ratio	Lower	Upper
138	100		
108	81.7	52.1	78.1#
65	131.1	115.0	172.6

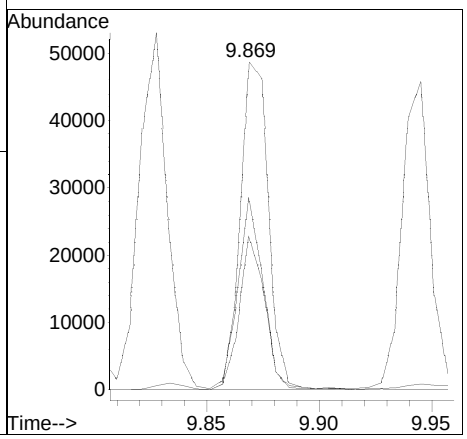


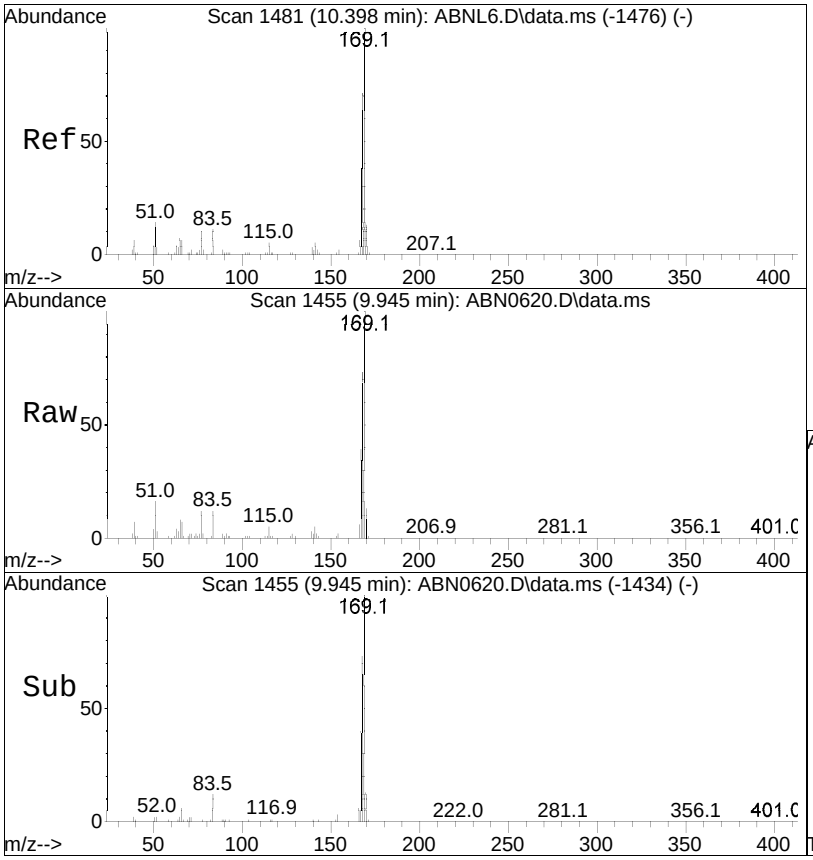


#75
4,6-Dinitro-o-cresol
Concen: 5.27 ug/ml
RT: 9.869 min Scan# 1442
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:198 Resp: 42456

Ion	Ratio	Lower	Upper
198	100		
51	51.6	76.0	114.0#
105	42.8	45.6	68.4#

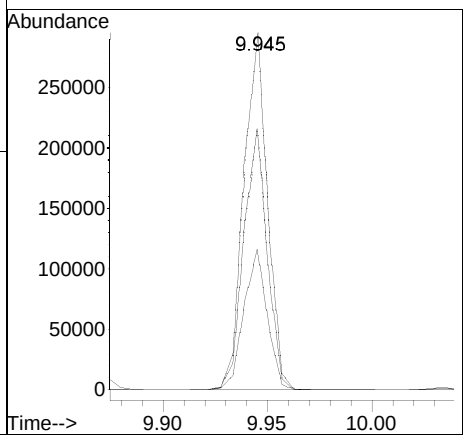


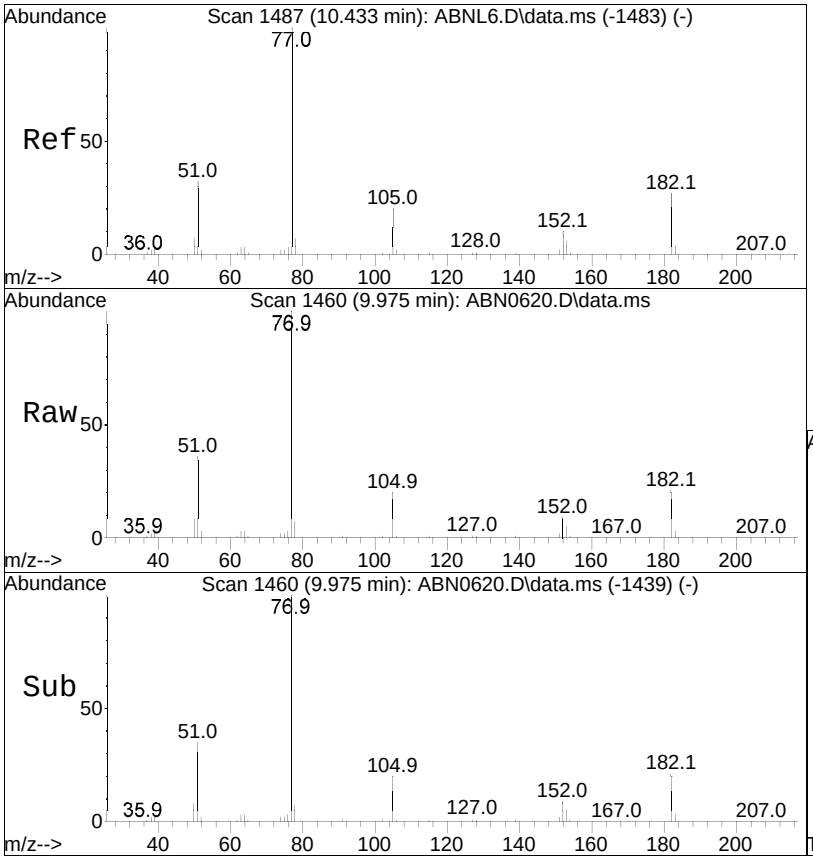


#76
NDPA/DPA
Concen: 5.23 ug/ml
RT: 9.945 min Scan# 1455
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:169 Resp: 231230

Ion	Ratio	Lower	Upper
169	100		
168	72.9	54.0	81.0
167	39.3	28.6	42.8

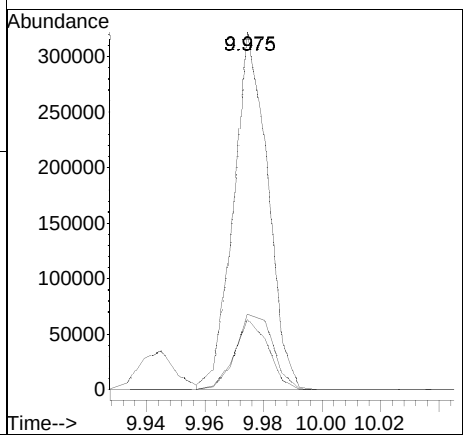


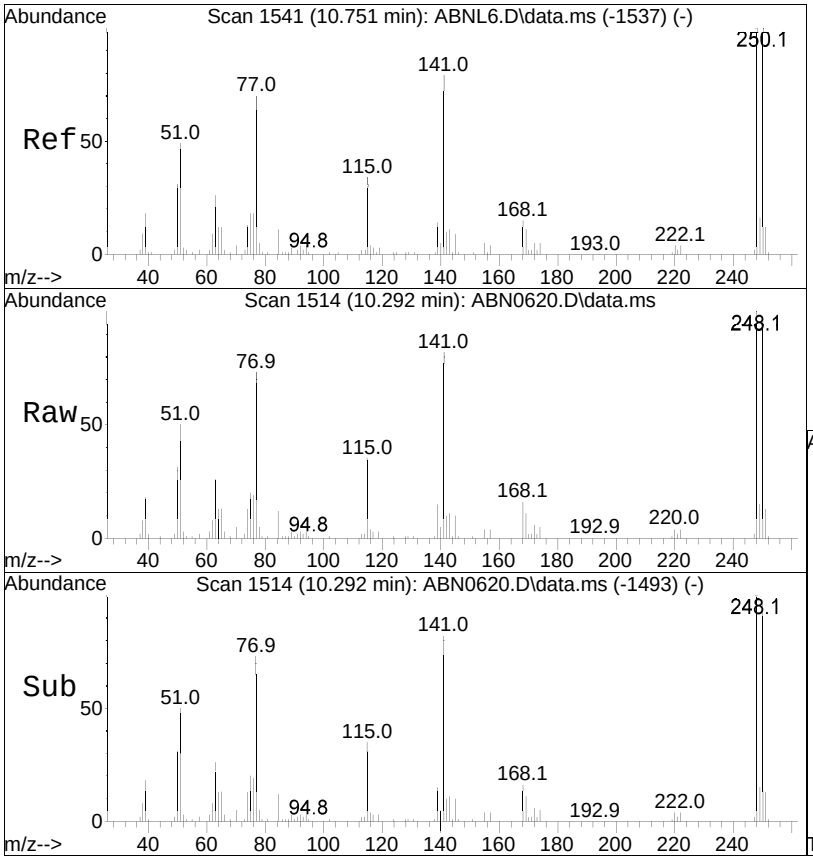


#77
Azobenzene
Concen: 5.28 ug/ml
RT: 9.975 min Scan# 1460
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion: 77 Resp: 259574

Ion	Ratio	Lower	Upper
77	100		
182	23.5	17.4	26.2
105	20.3	15.4	23.2

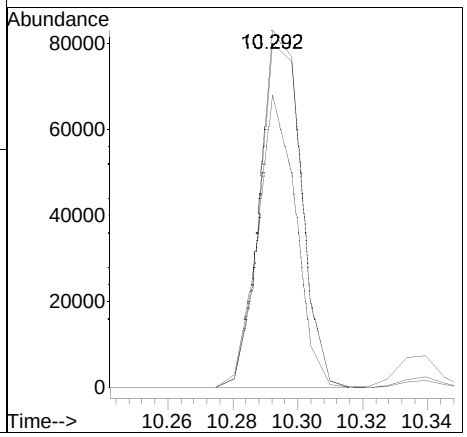


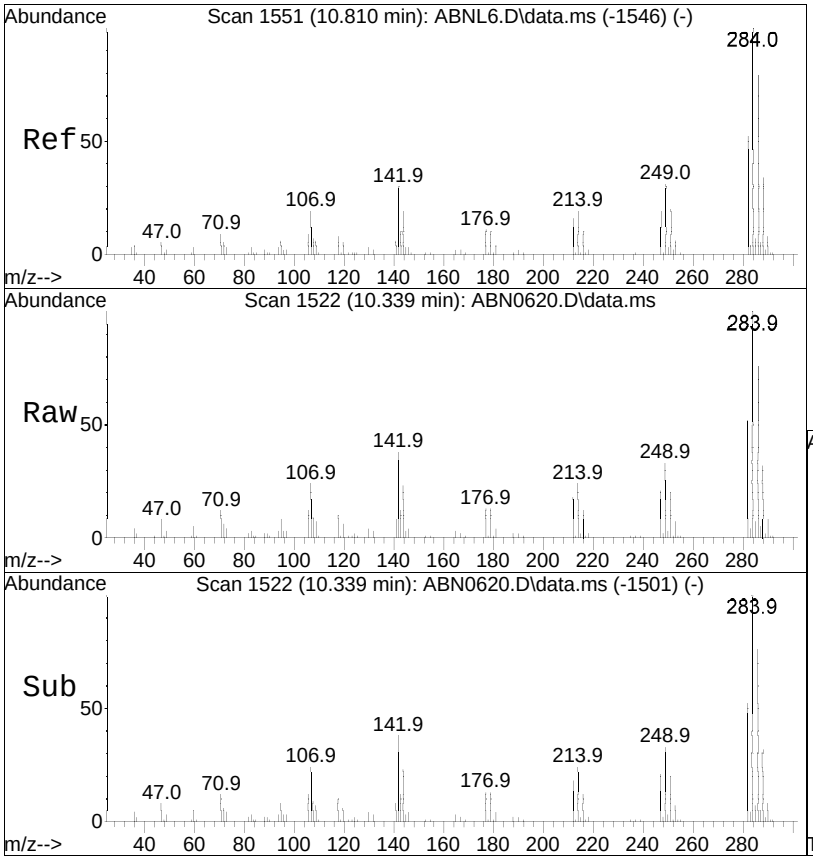


#79
4-Bromophenyl phenyl ether
Concen: 5.00 ug/ml
RT: 10.292 min Scan# 1514
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:248 Resp: 73417

Ion	Ratio	Lower	Upper
248	100		
141	75.7	76.6	114.8#
250	97.2	77.3	115.9

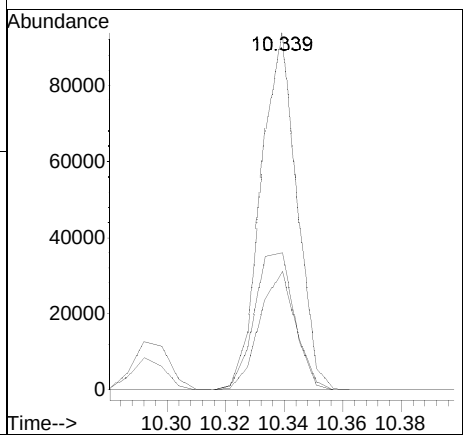


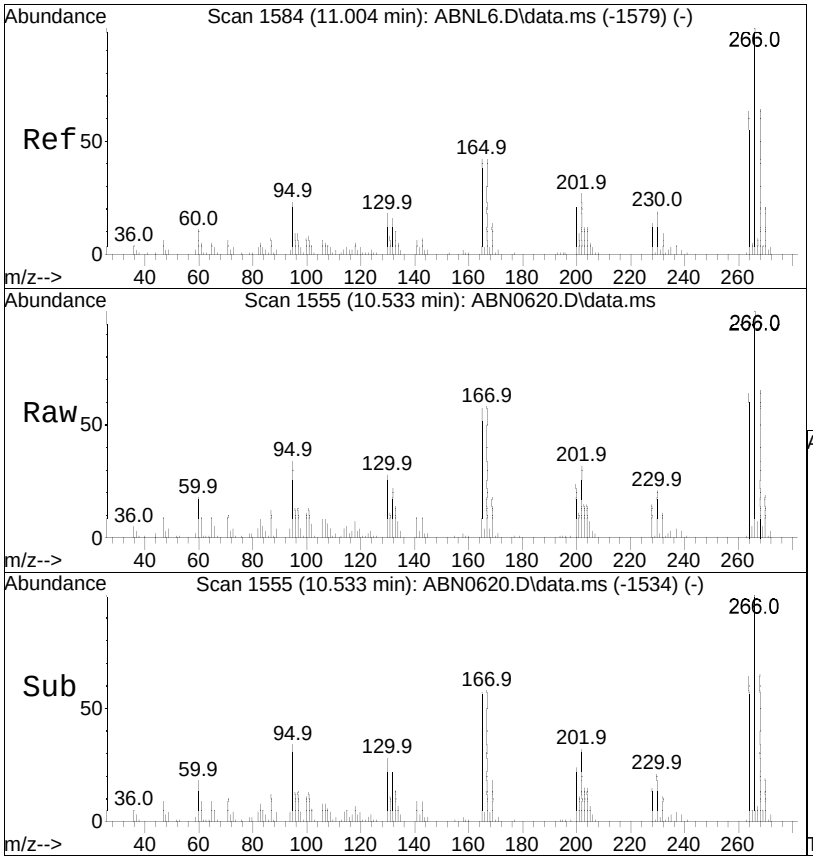


#80
Hexachlorobenzene
Concen: 4.74 ug/ml
RT: 10.339 min Scan# 1522
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:284 Resp: 79823

Ion	Ratio	Lower	Upper
284	100		
142	42.9	41.9	62.9
249	34.0	24.1	36.1

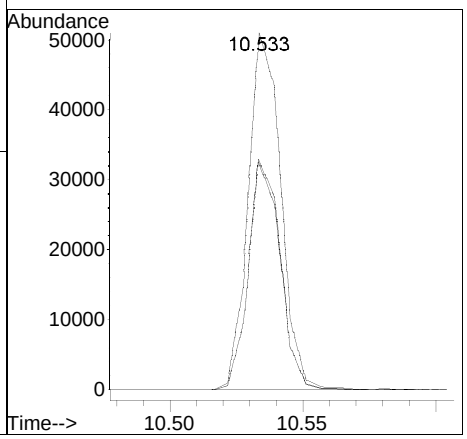


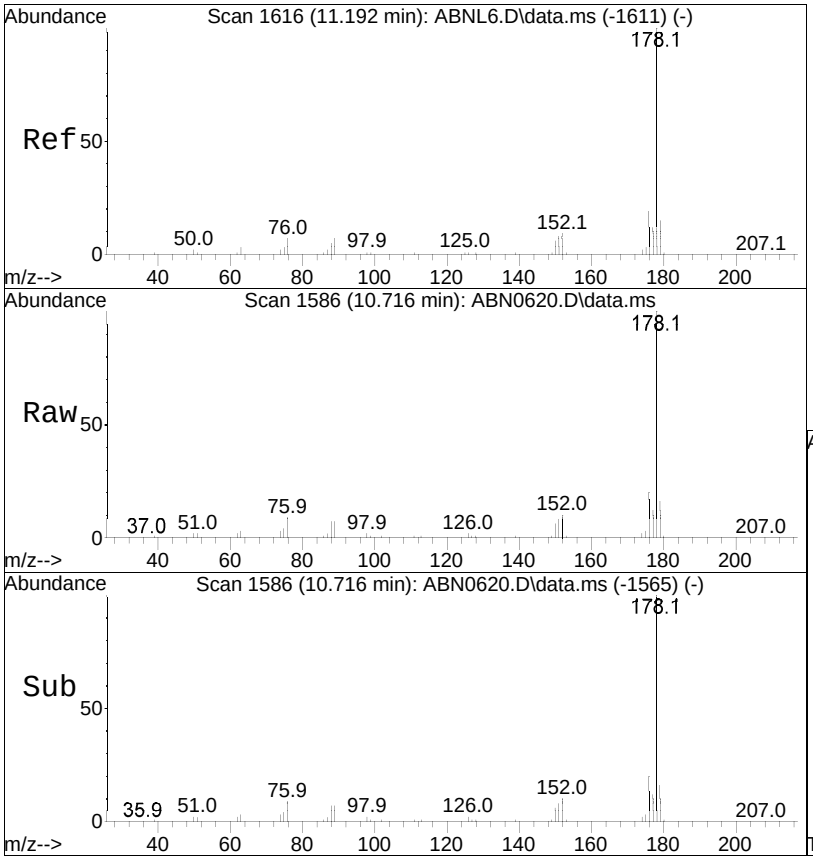


#81
Pentachlorophenol
Concen: 4.43 ug/ml
RT: 10.533 min Scan# 1555
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:266 Resp: 43517

Ion	Ratio	Lower	Upper
266	100		
264	62.1	49.7	74.5
268	63.5	50.5	75.7

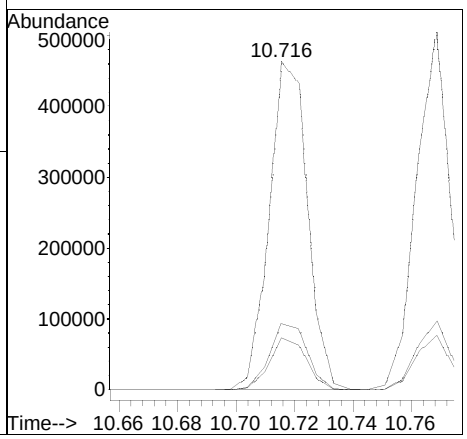


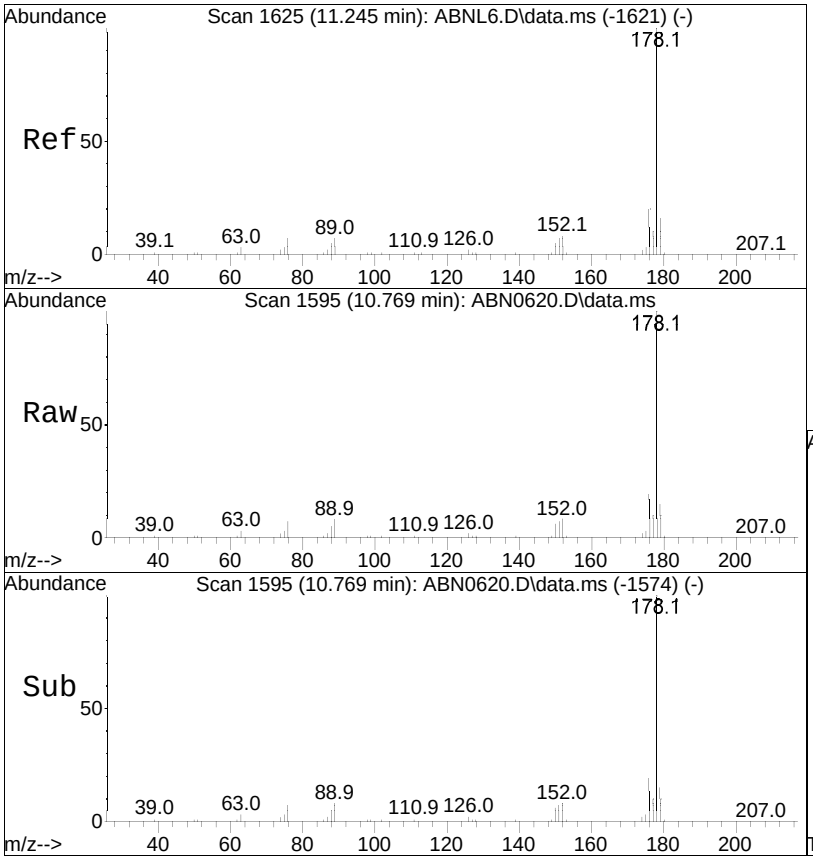


#88
Phenanthrene
Concen: 5.17 ug/ml
RT: 10.716 min Scan# 1586
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:178 Resp: 420738

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	20.1	15.4	23.2

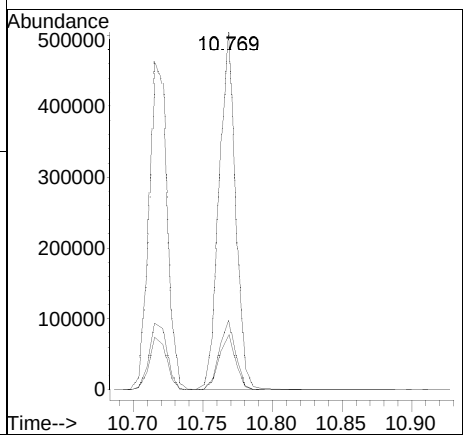


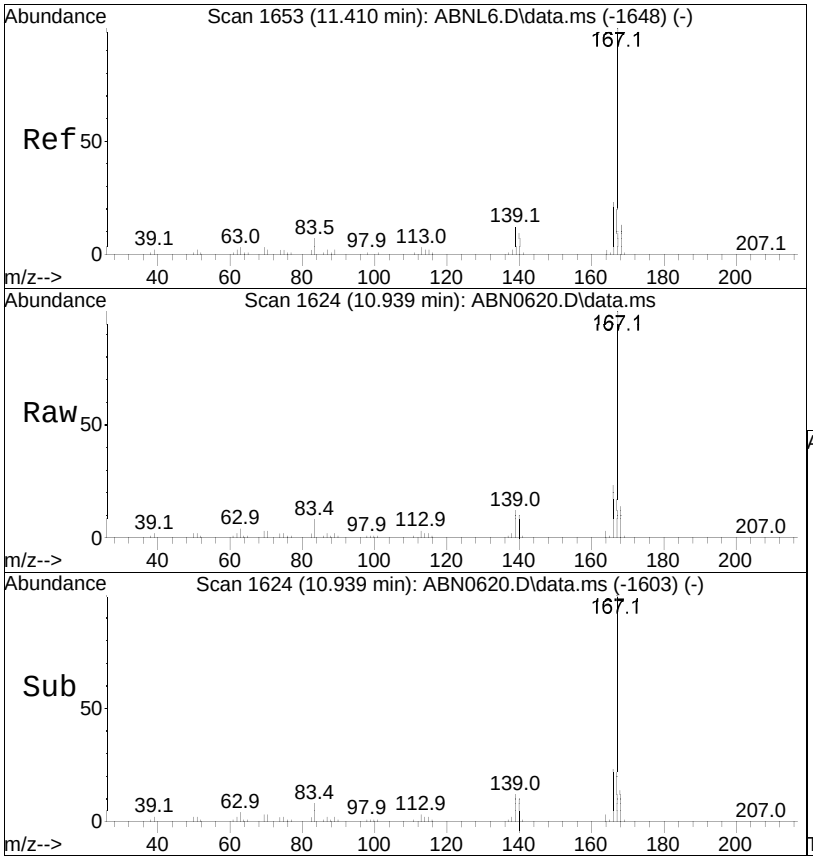


#89
Anthracene
Concen: 5.17 ug/ml
RT: 10.769 min Scan# 1595
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:178 Resp: 417461

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.0	18.0
176	19.2	14.6	22.0

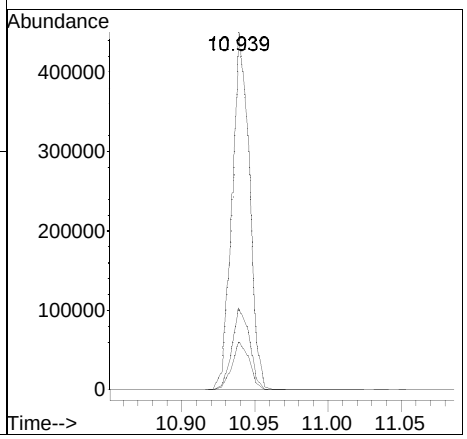


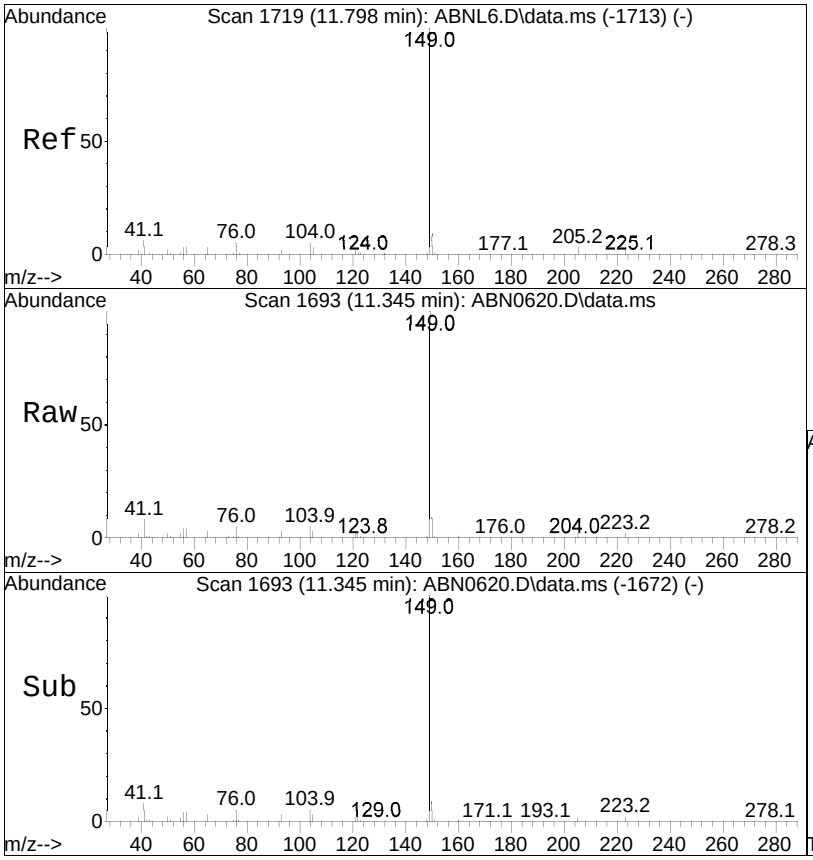


#90
Carbazole
Concen: 5.04 ug/ml
RT: 10.939 min Scan# 1624
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:167 Resp: 367230

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	23.4	17.4	26.0

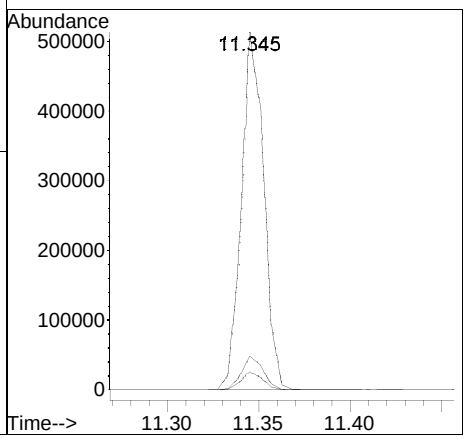


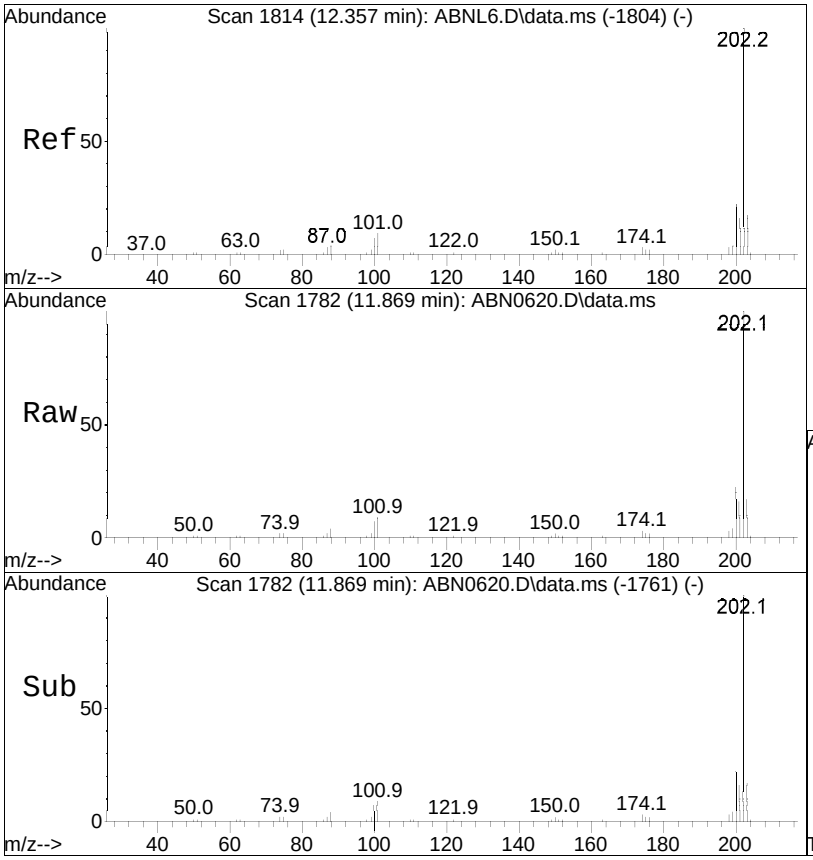


#91
Di-n-butylphthalate
Concen: 5.02 ug/ml
RT: 11.345 min Scan# 1693
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:149 Resp: 428183

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.1	4.5	6.7

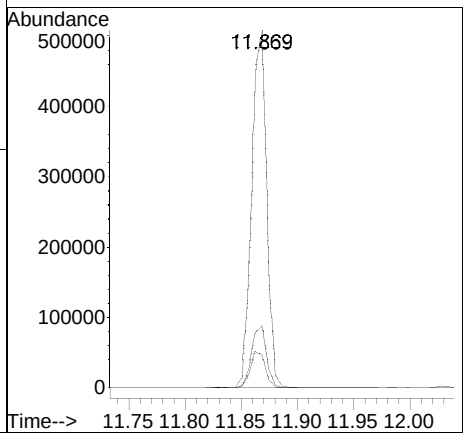


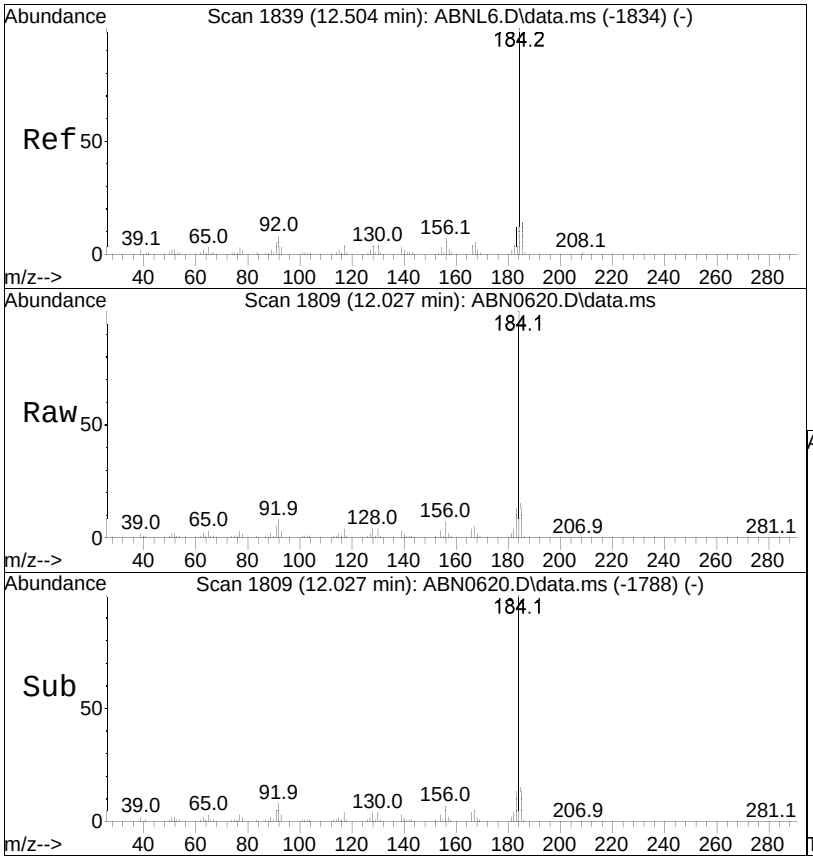


#92
Fluoranthene
Concen: 4.96 ug/ml
RT: 11.869 min Scan# 1782
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:202 Resp: 461395

Ion	Ratio	Lower	Upper
202	100		
101	10.3	13.5	20.3#
203	17.4	13.6	20.4

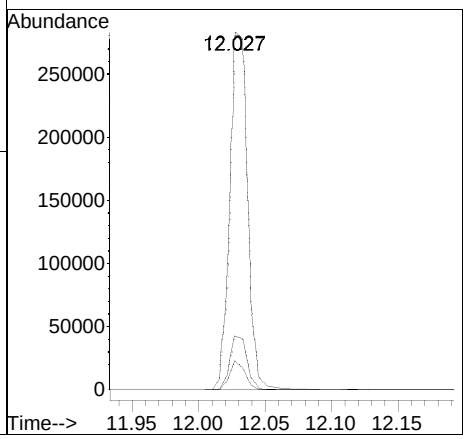


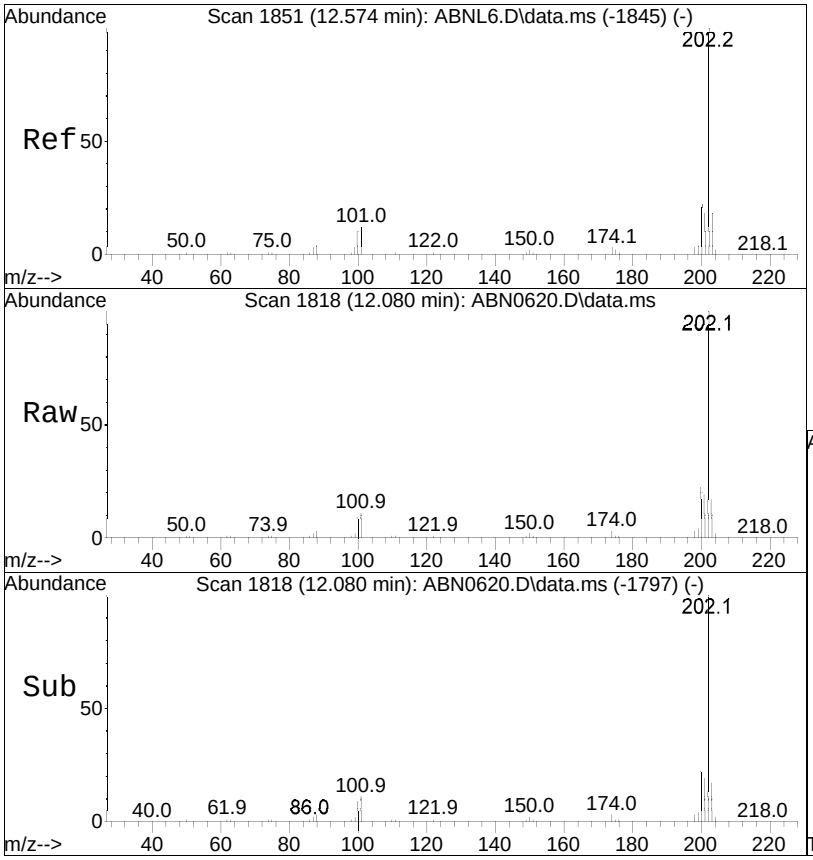


#93
Benzidine
Concen: 4.62 ug/ml
RT: 12.027 min Scan# 1809
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:184 Resp: 261164

Ion	Ratio	Lower	Upper
184	100		
92	7.2	9.1	13.7#
185	14.8	11.1	16.7

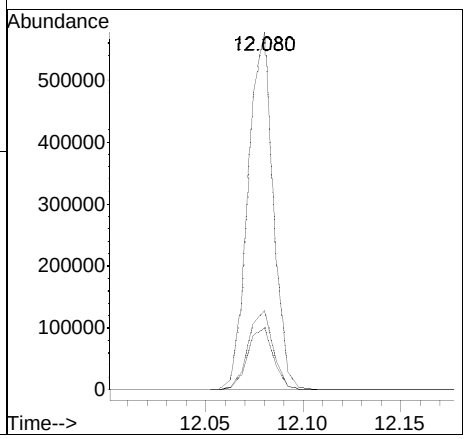


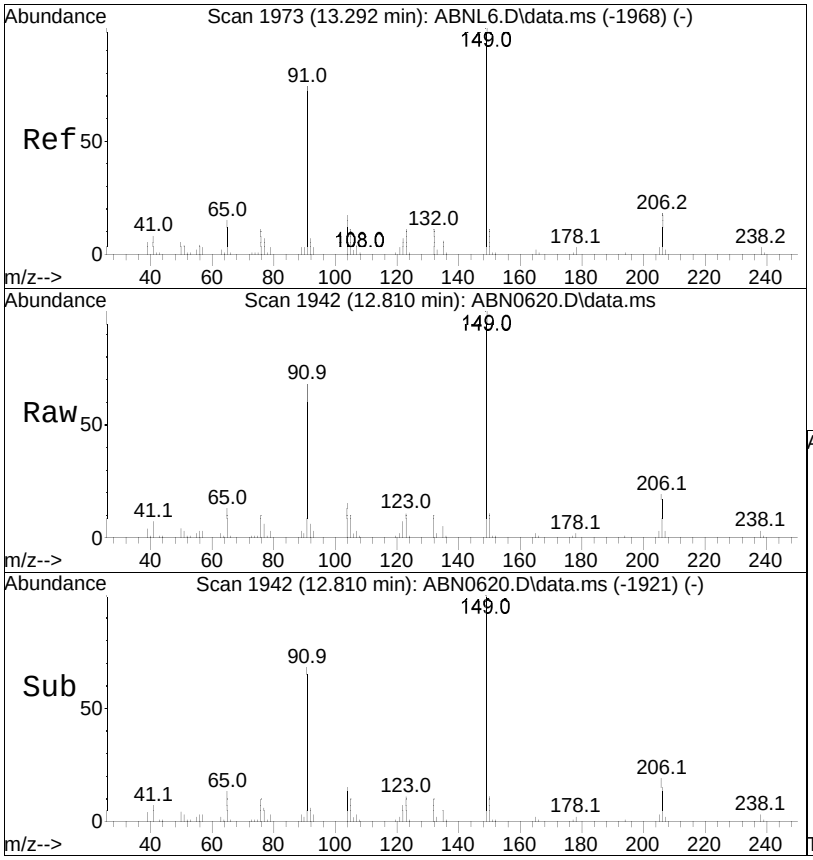


#94
Pyrene
Concen: 5.15 ug/ml
RT: 12.080 min Scan# 1818
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:202 Resp: 512585

Ion	Ratio	Lower	Upper
202	100		
200	22.0	16.7	25.1
203	17.8	14.2	21.4

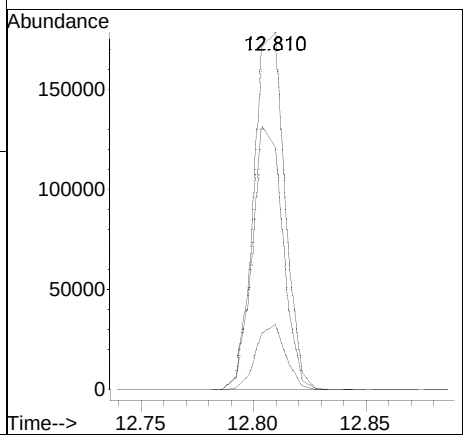


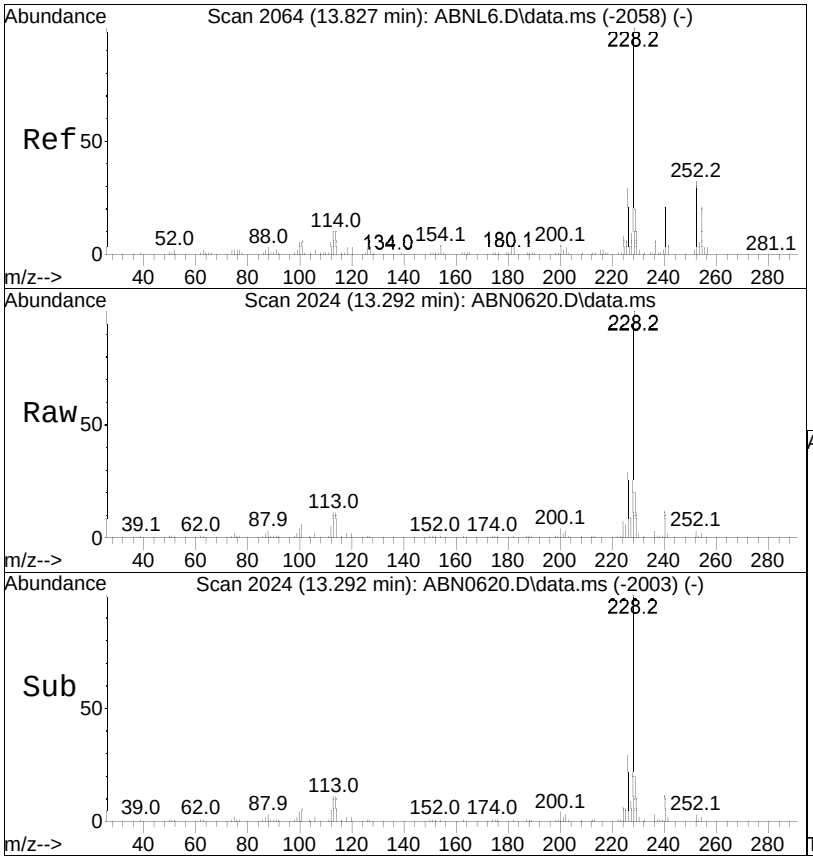


#96
Butyl benzyl phthalate
Concen: 4.25 ug/ml
RT: 12.810 min Scan# 1942
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:149 Resp: 169252

Ion	Ratio	Lower	Upper
149	100		
91	72.8	63.3	94.9
206	17.6	13.9	20.9

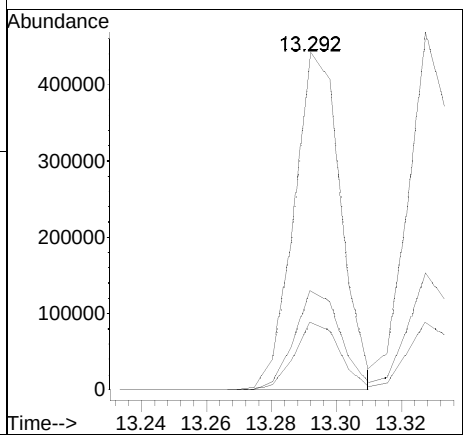


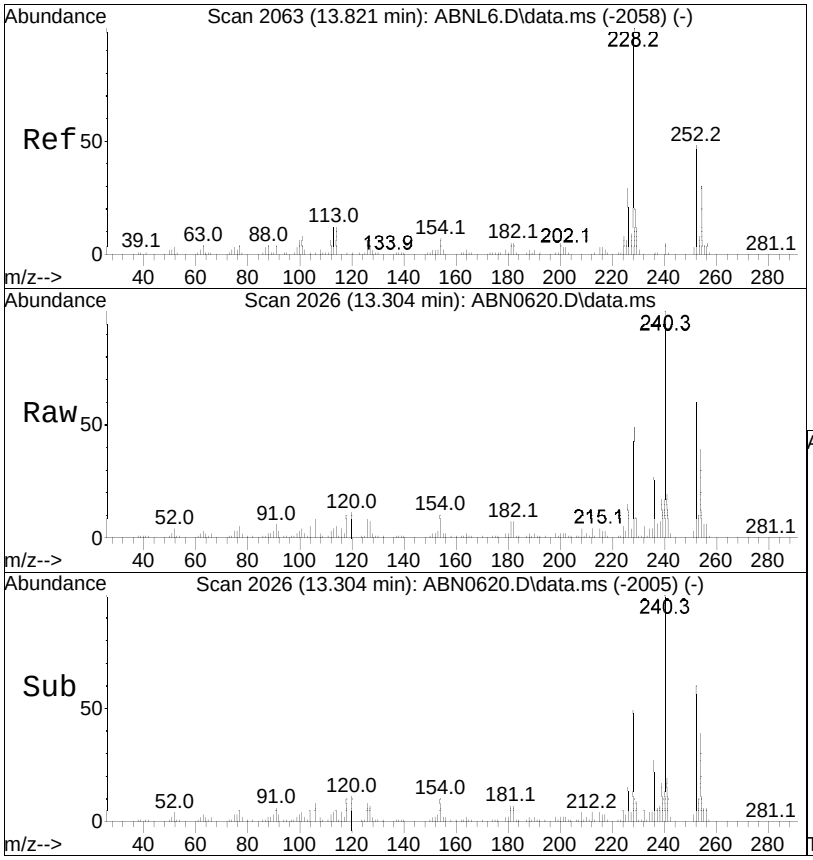


#104
Benzo(a)anthracene
Concen: 5.01 ug/ml
RT: 13.292 min Scan# 2024
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:228 Resp: 442436

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.7	15.6	23.4

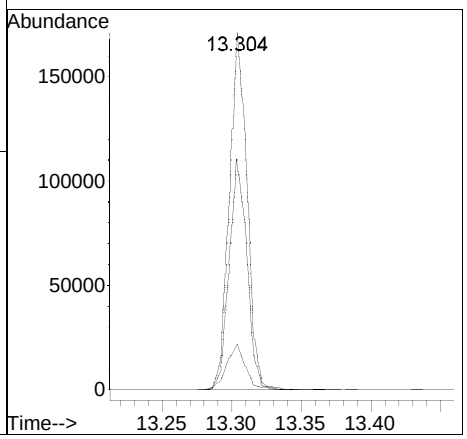


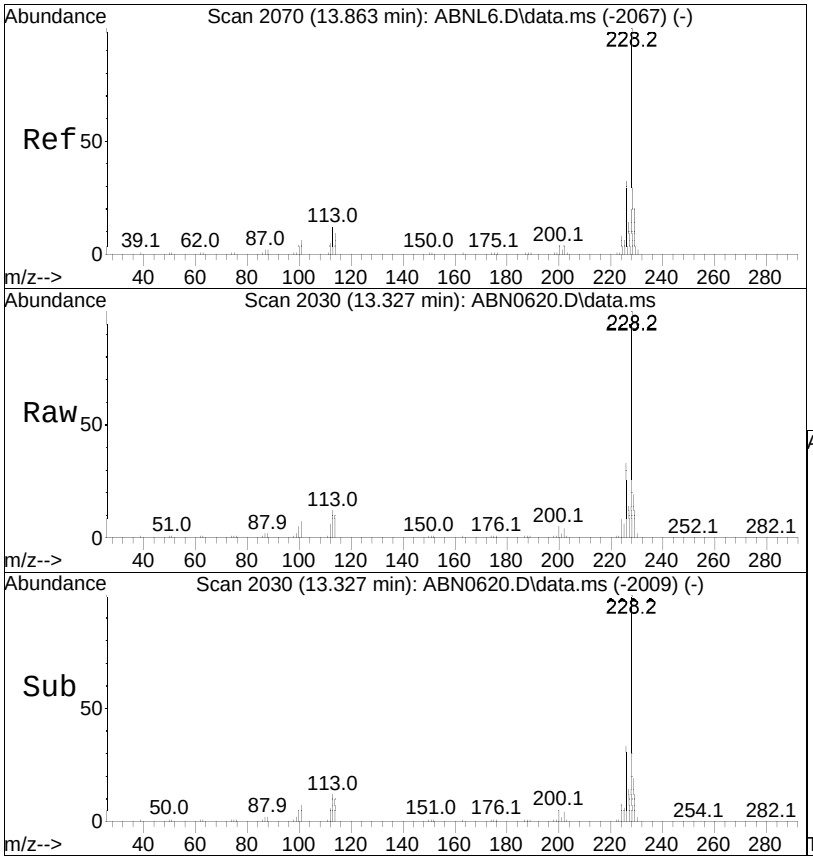


#105
3,3'-Dichlorobenzidine
Concen: 5.24 ug/ml
RT: 13.304 min Scan# 2026
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:252 Resp: 149180

Ion	Ratio	Lower	Upper
252	100		
126	14.7	14.5	21.7
254	64.9	51.2	76.8

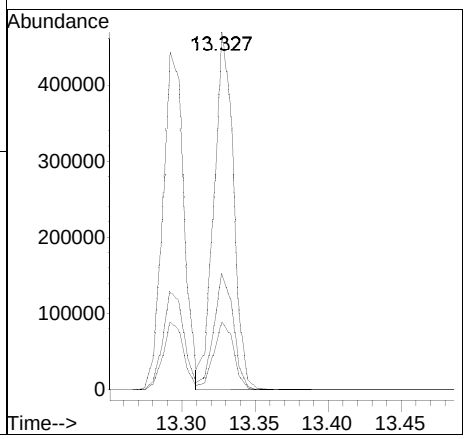


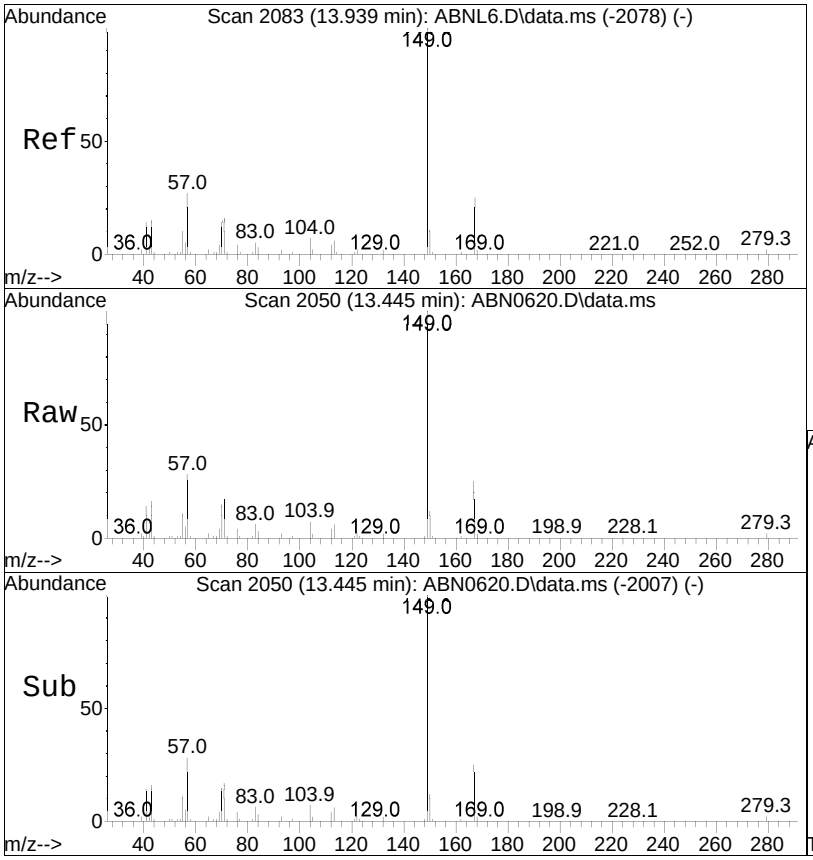


#106
Chrysene
Concen: 5.15 ug/ml
RT: 13.327 min Scan# 2030
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:228 Resp: 434910

Ion	Ratio	Lower	Upper
228	100		
226	32.7	24.0	36.0
229	19.5	15.8	23.8

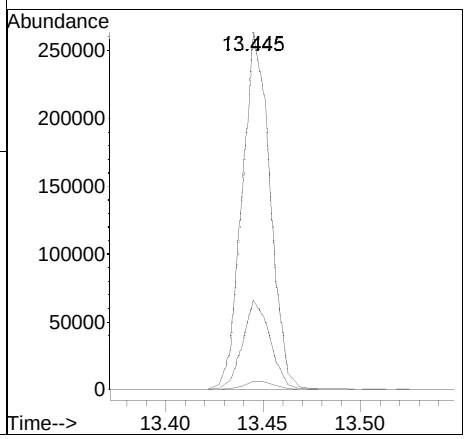


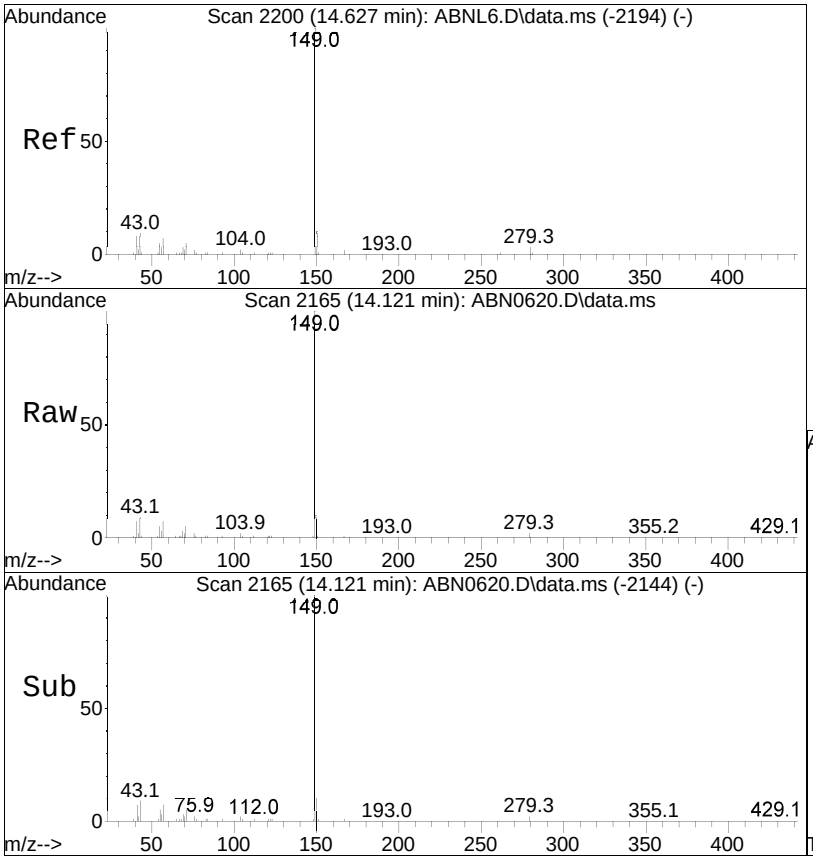


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.58 ug/ml
RT: 13.445 min Scan# 2050
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:149 Resp: 260135

Ion	Ratio	Lower	Upper
149	100		
167	24.7	22.1	33.1
279	2.3	3.0	4.4#

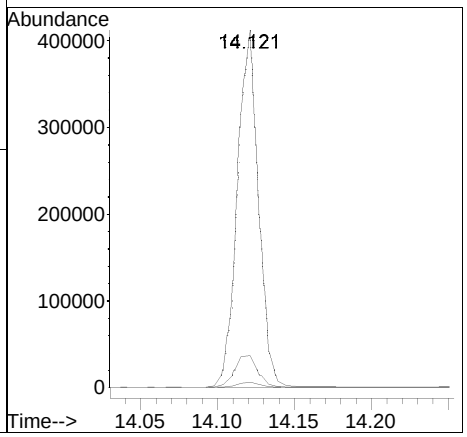


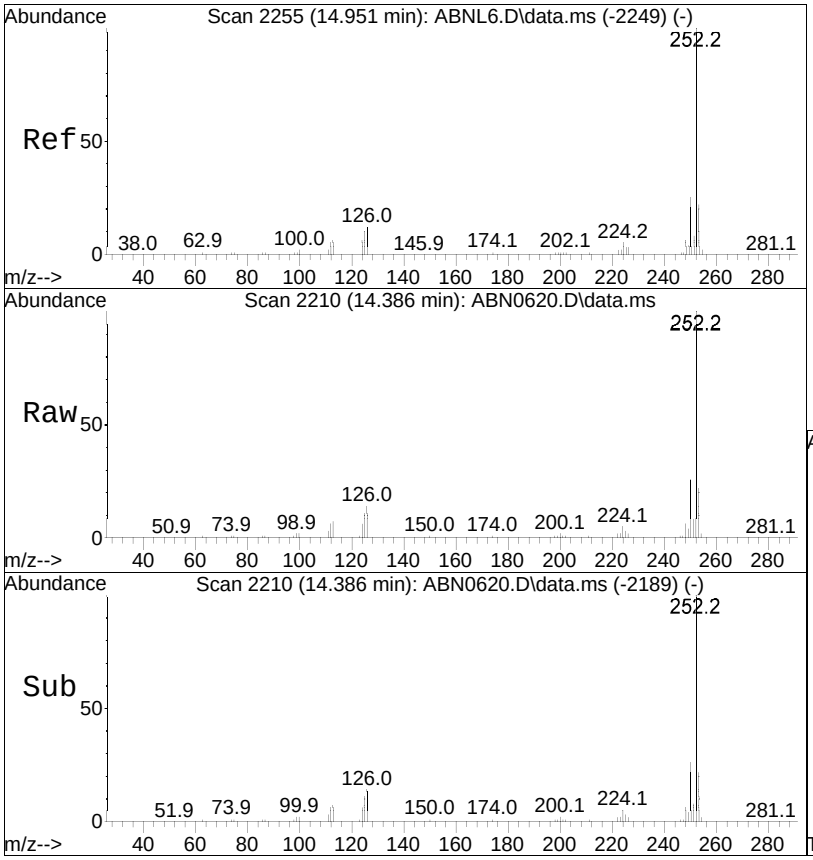


#108
Di-n-octylphthalate
Concen: 4.24 ug/ml
RT: 14.121 min Scan# 2165
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:149 Resp: 387019

Ion	Ratio	Lower	Upper
149	100		
43	10.0	18.8	28.2#
167	1.4	1.3	1.9

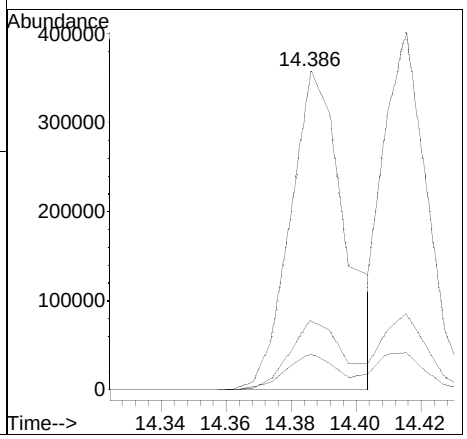


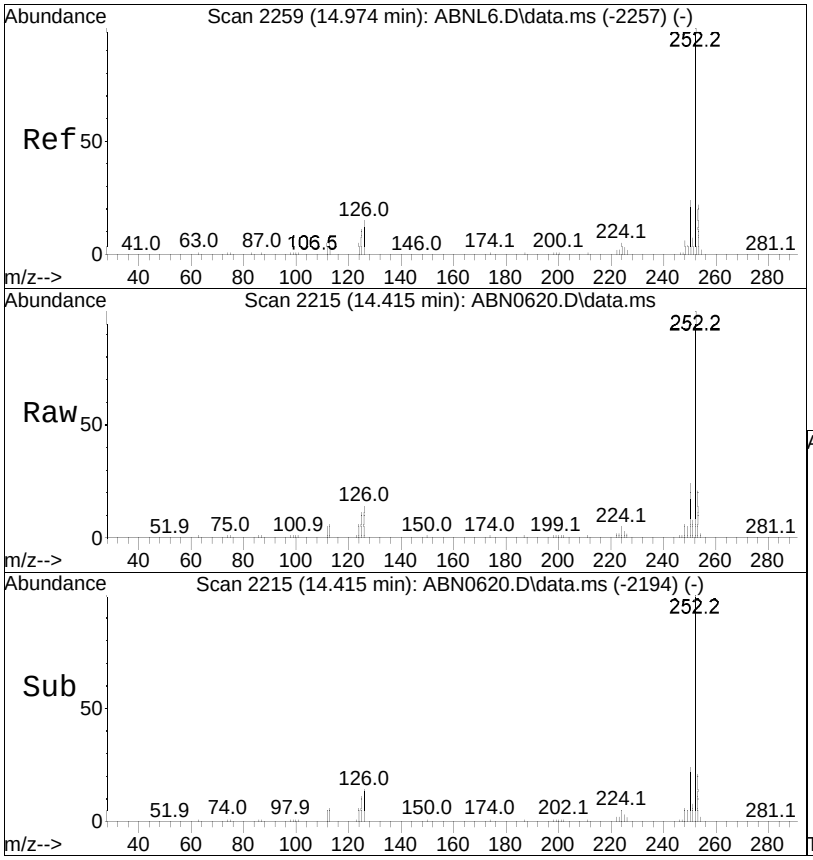


#109
Benzo(b)fluoranthene
Concen: 5.44 ug/ml
RT: 14.386 min Scan# 2210
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:252 Resp: 424468

Ion	Ratio	Lower	Upper
252	100		
125	10.3	13.3	19.9#
253	19.5	17.1	25.7

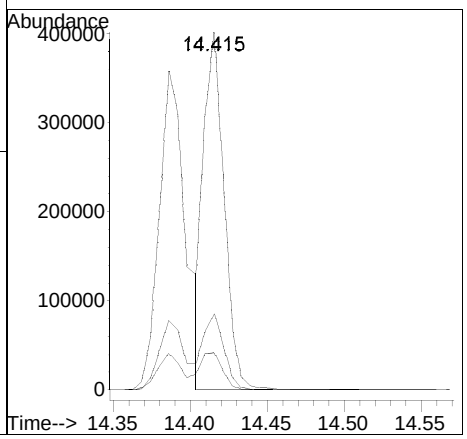


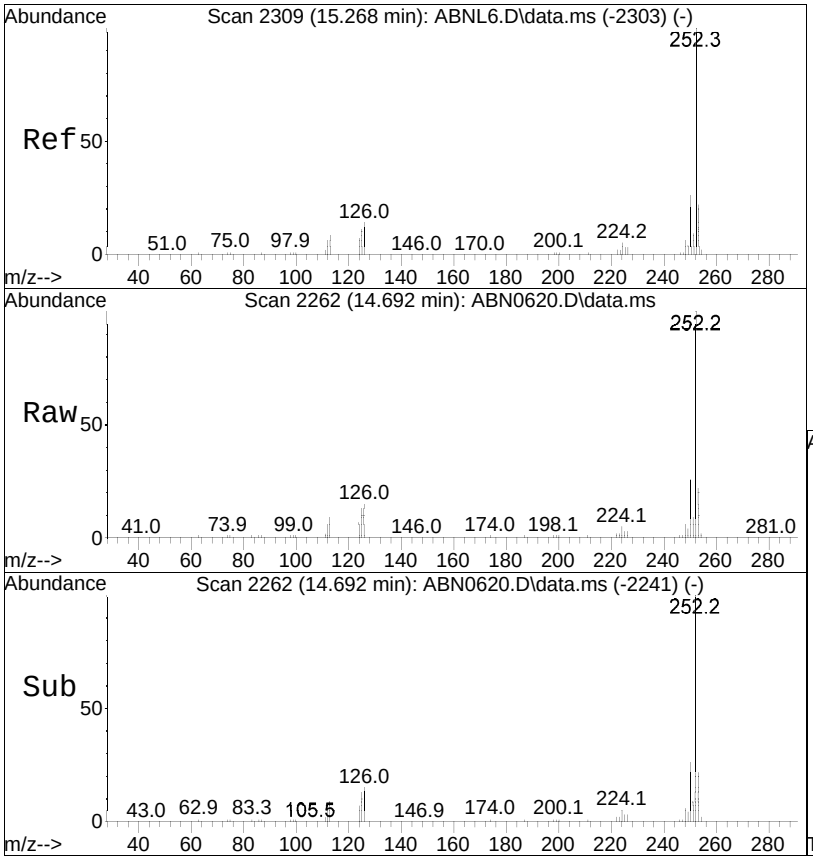


#110
Benzo(k)fluoranthene
Concen: 4.81 ug/ml
RT: 14.415 min Scan# 2215
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:252 Resp: 367764

Ion	Ratio	Lower	Upper
252	100		
125	12.6	13.0	19.6#
253	24.2	16.8	25.2

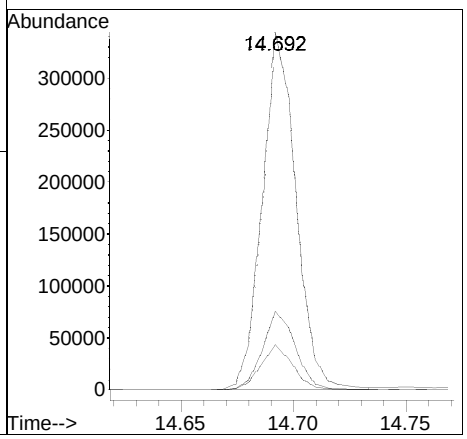


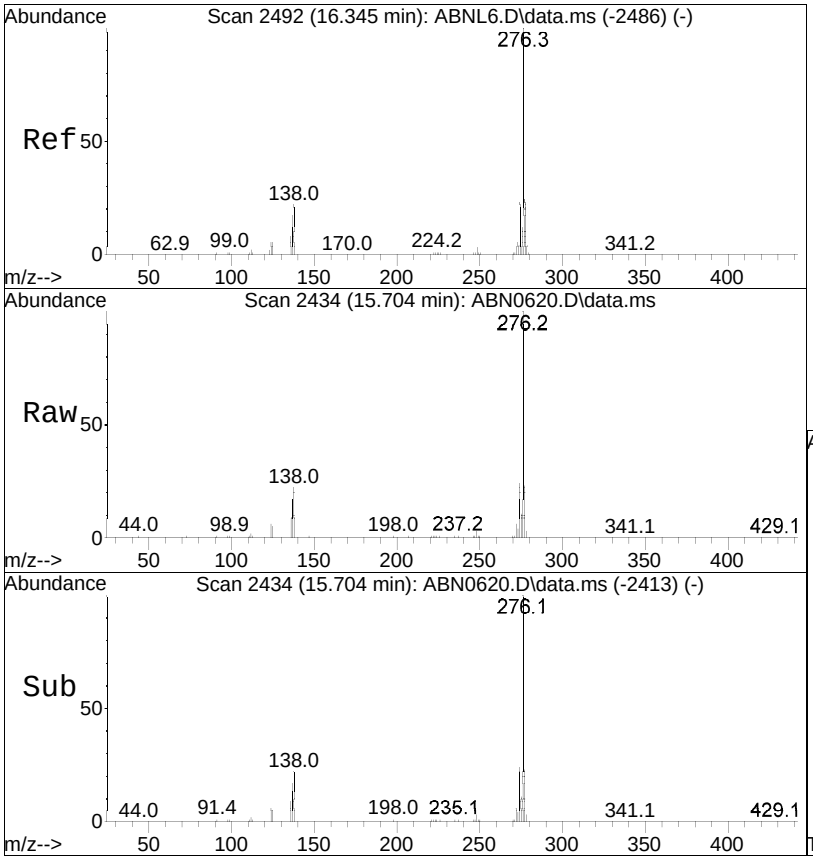


#111
Benzo(a)pyrene
Concen: 5.23 ug/ml
RT: 14.692 min Scan# 2262
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:252 Resp: 355154

Ion	Ratio	Lower	Upper
252	100		
125	12.3	14.2	21.2#
253	21.8	16.9	25.3

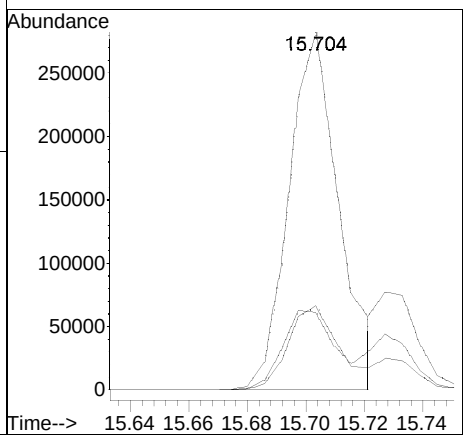


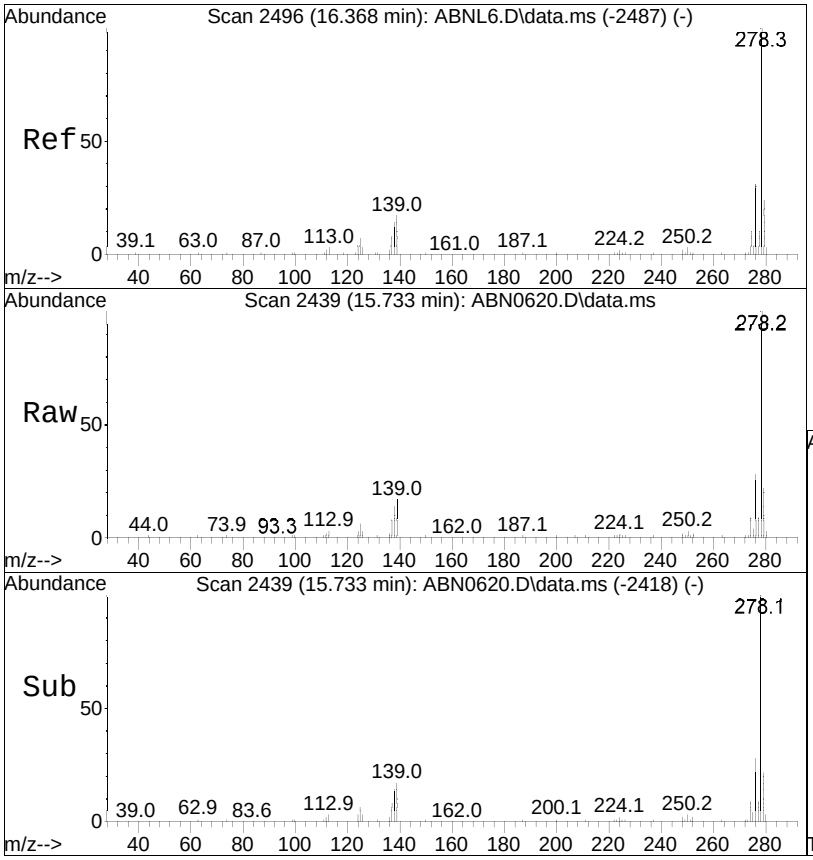


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.48 ug/mL
RT: 15.704 min Scan# 2434
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:276 Resp: 336285

Ion	Ratio	Lower	Upper
276	100		
138	23.4	25.1	37.7#
277	24.3	18.6	28.0

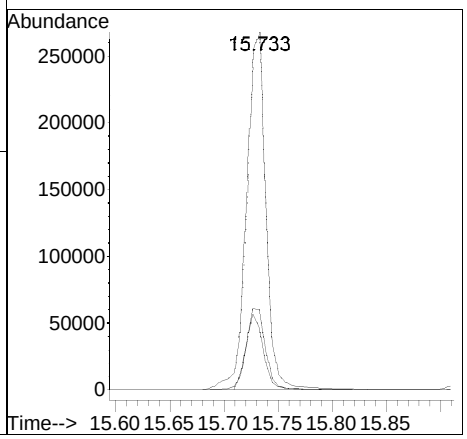


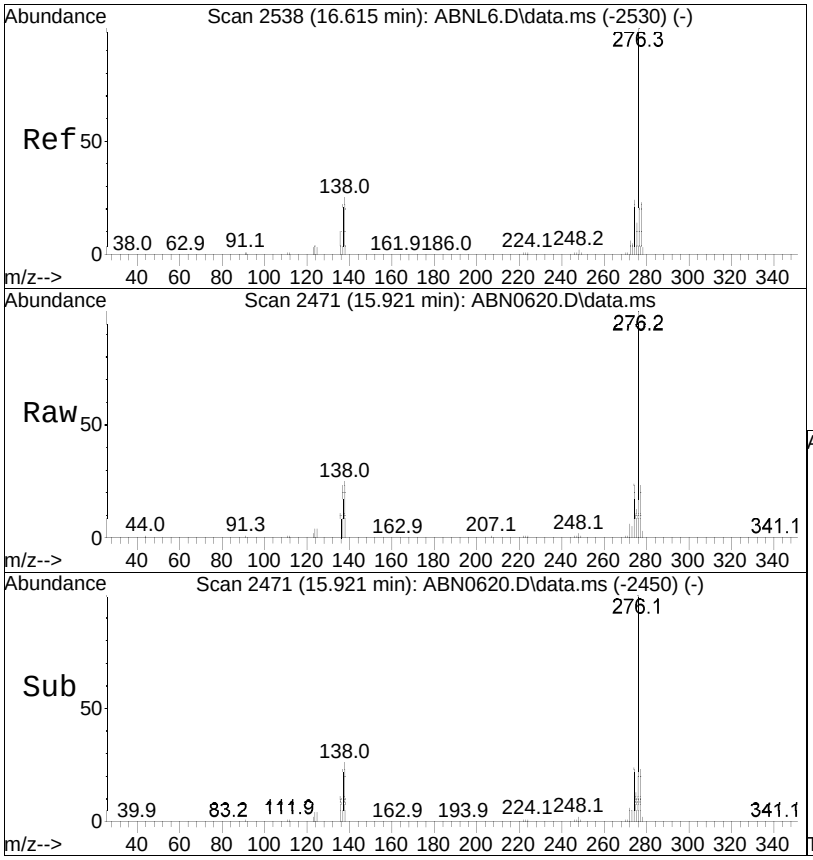


#114
Dibenzo(a,h)anthracene
Concen: 5.34 ug/ml
RT: 15.733 min Scan# 2439
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:278 Resp: 328189

Ion	Ratio	Lower	Upper
278	100		
139	19.6	20.8	31.2#
279	23.1	18.3	27.5

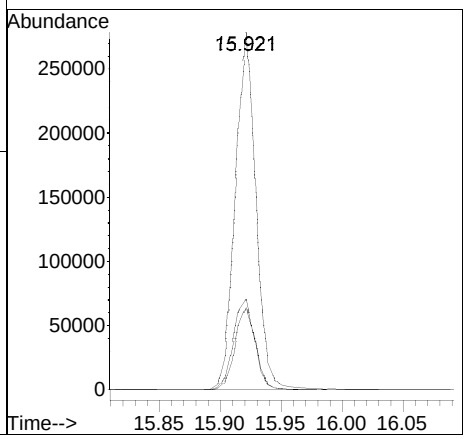




#115
Benzo(ghi)perylene
Concen: 5.44 ug/ml
RT: 15.921 min Scan# 2471
Delta R.T. 0.000 min
Lab File: ABN0620.D
Acq: 20 Jun 2024 12:44 pm

Tgt Ion:276 Resp: 325752

Ion	Ratio	Lower	Upper
276	100		
138	26.6	29.2	43.8#
277	23.4	18.8	28.2



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: ABN0620.D	Operator	: SV107:mrg
Date Inj'd	: 6/20/2024 12:44 pm	Instrument	: SV107
Sample	: WG1937154-3,32,,ABN 10777	Quant Date	: 6/20/2024 1:42 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620RVT\
Data File : AP90620.D
Acq On : 20 Jun 2024 1:10 pm
Operator : SV107:mrg
Sample : WG1937154-4,32,,AP9 10776 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 20 13:42:59 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:43:23 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	141	0.00
28	T	Benzaldehyde		1.024	1.068	-4.3	156	0.00
29	T	Acetophenone		1.770	1.845	-4.2	152	0.00
30	T	m-Toluidine		1.599	1.830	-14.4	157	0.00
31	T	2-Chloroaniline		1.546	1.673	-8.2	156	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	137	0.00
55	T	a-Terpineol		0.276	0.312	-13.0	165	0.00
56	T	3-Chloroaniline		0.147	0.168	-14.3	165	0.00
57	T	2,6-Dichlorophenol		0.290	0.332	-14.5	162	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.154	-27.3#	189	0.00
59	T	Caprolactam		0.149	0.168	-12.8	162	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.428	-6.5	159	0.00
61	T	Biphenyl		0.929	1.015	-9.3	163	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	147	0.00
83	T	Dichloran	*	5.000	6.381	-27.6#	233	0.00
84	T	Pentachloronitrobenzene	*	5.000	6.355	-27.1#	214	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	152	0.00
98	T	Diphenamid		0.445	0.472	-6.1	166	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : AP90620.D
Acq On : 20 Jun 2024 1:10 pm
Operator : SV107:mrg
Sample : WG1937154-4,32,,AP9 10776 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 20 13:42:59 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:43:23 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.016	152	62418	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	7.492	136	232012	4.000	ug/ml		0.00
82) IS2_Acenaphthene-d10	9.263	164	146718	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	10.698	188	327464	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.386	105	83305	5.214	ug/ml		100
29) Acetophenone	6.545	105	143959	5.212	ug/ml	#	85
30) m-Toluidine	6.651	106	142765	5.721	ug/ml		94
31) 2-Chloroaniline	7.069	127	130518	5.409	ug/ml		94
55) a-Terpineol	7.580	59	90464	5.643	ug/ml	#	81
56) 3-Chloroaniline	7.592	65	48791	5.708	ug/ml		83
57) 2,6-Dichlorophenol	7.616	162	96226	5.722	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	7.886	111	44651	6.353	ug/ml	#	1
59) Caprolactam	7.927	55	48704	5.631	ug/ml	#	73
60) 1,2,4,5-Tetrachloroben...	8.422	216	124196	5.326	ug/ml		98
61) Biphenyl	8.722	154	294334	5.462	ug/ml		99
83) Dichloran	10.404	206	32790	6.381	ug/ml	#	68
84) Pentachloronitrobenzene	10.551	237	35706	6.355	ug/ml	#	84
98) Diphenamid	11.615	167	193079	5.300	ug/ml		83

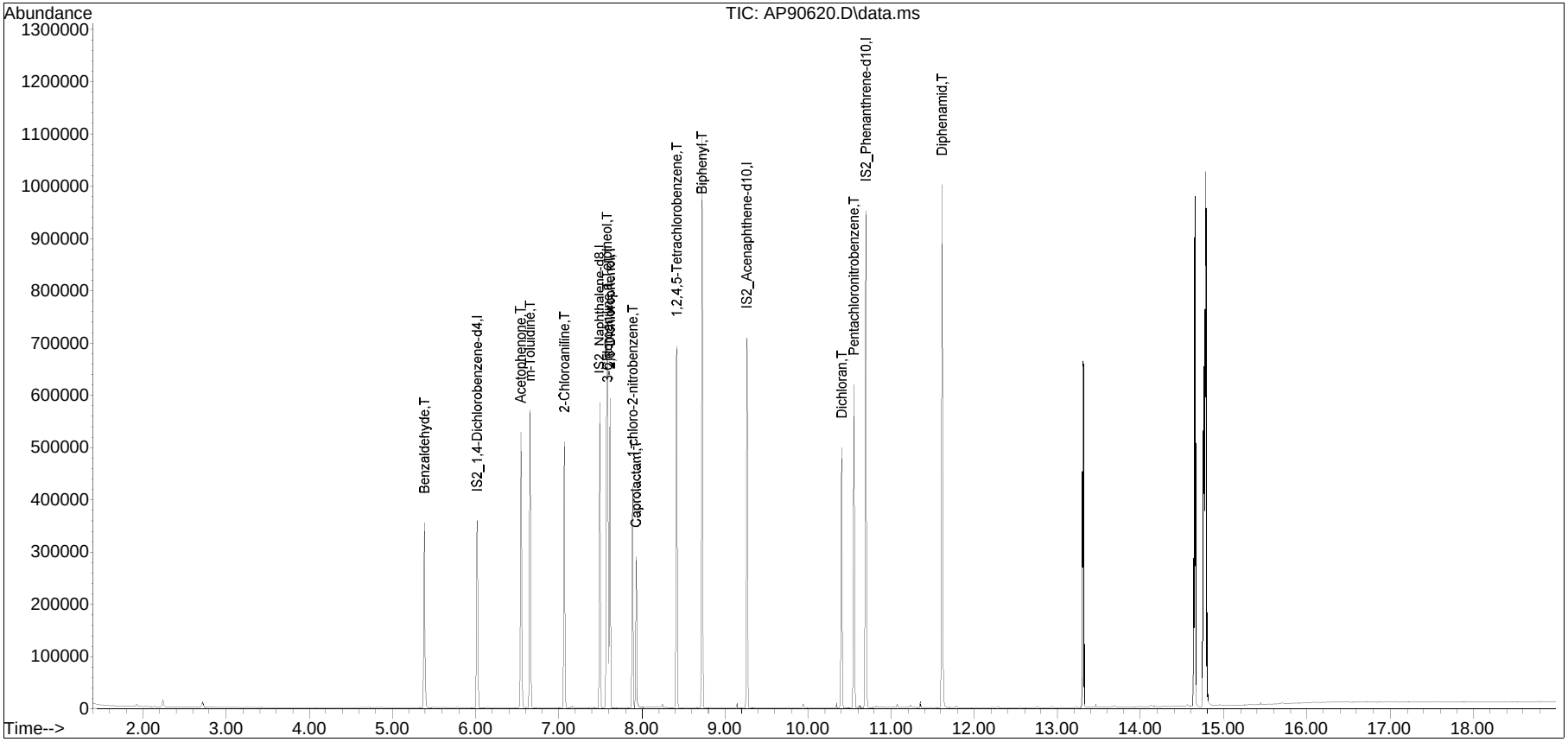
(#) = qualifier out of range (m) = manual integration (+) = signals summed

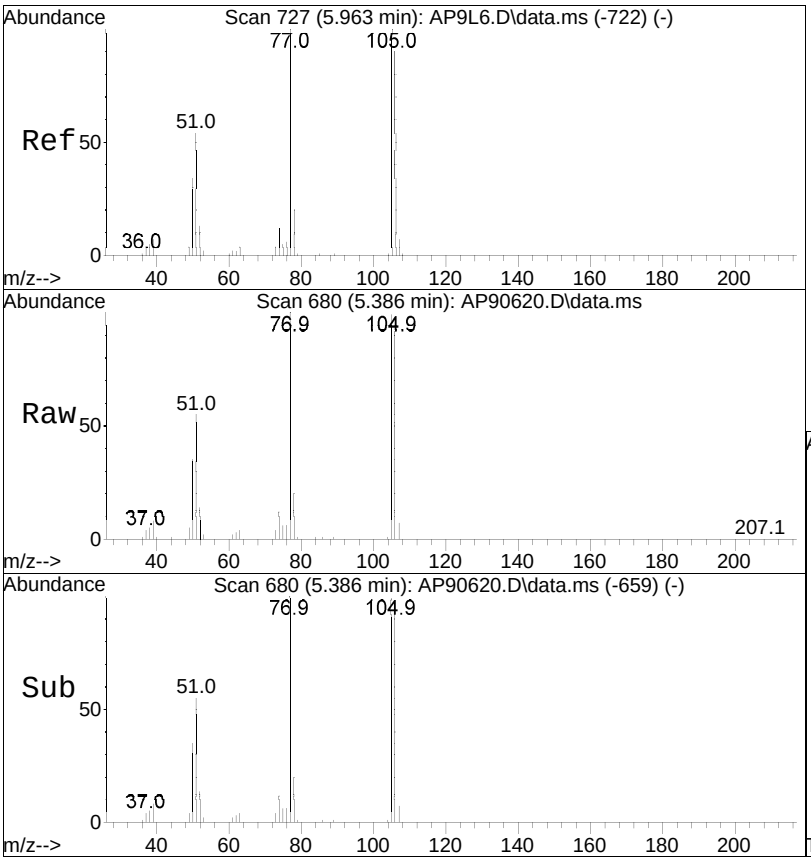
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : AP90620.D
Acq On : 20 Jun 2024 1:10 pm
Operator : SV107:mrg
Sample : WG1937154-4,32,,AP9 10776 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 20 13:42:59 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:43:23 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

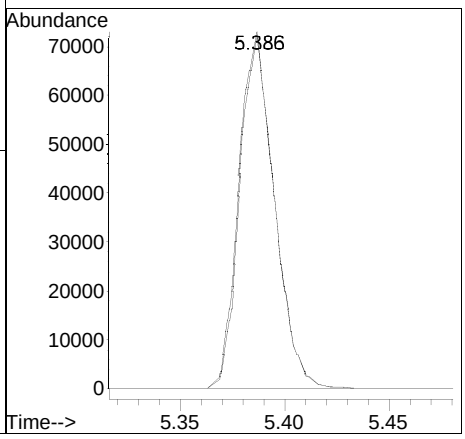


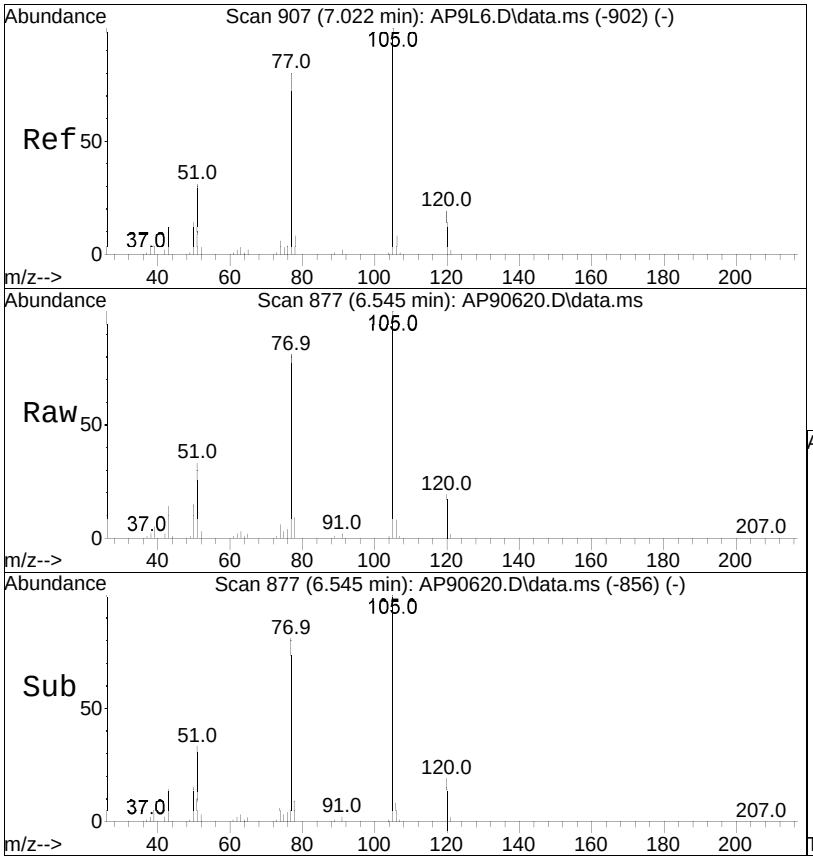


#28
Benzaldehyde
Concen: 5.21 ug/ml
RT: 5.386 min Scan# 680
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:105 Resp: 83305

Ion	Ratio	Lower	Upper
105	100		
77	103.1	82.2	123.4

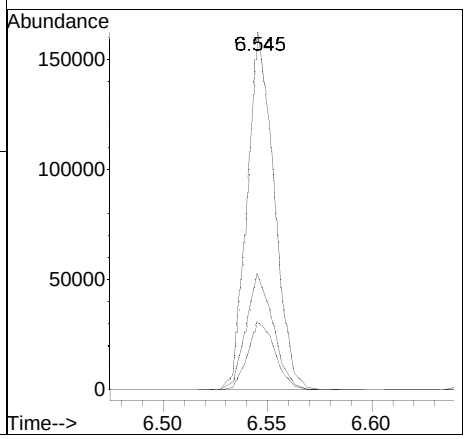


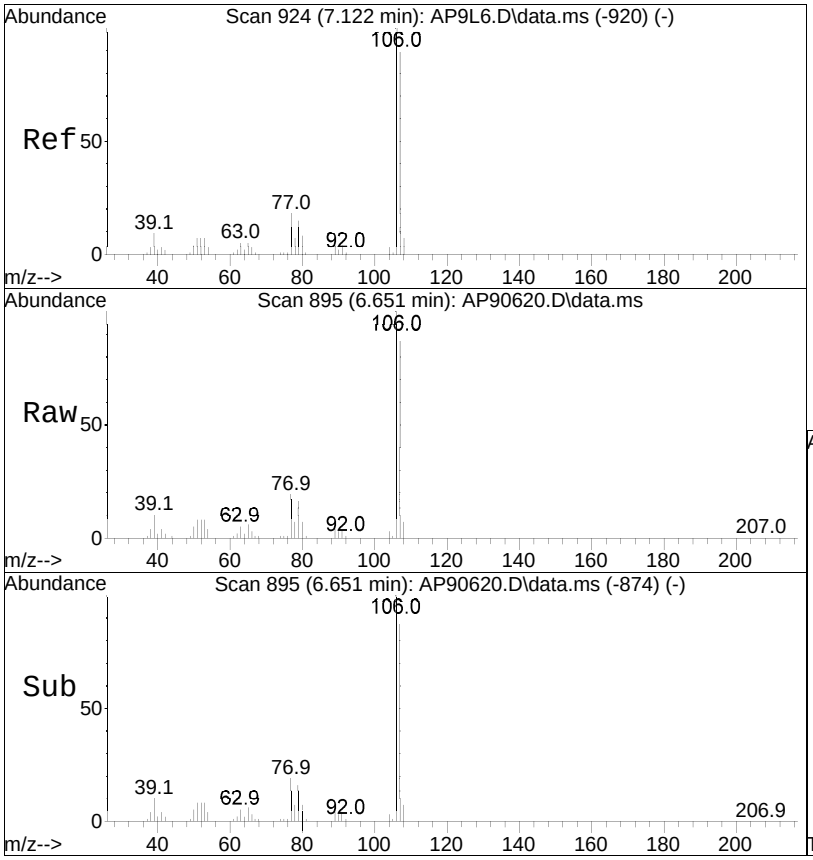


#29
Acetophenone
Concen: 5.21 ug/ml
RT: 6.545 min Scan# 877
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:105 Resp: 143959

Ion	Ratio	Lower	Upper
105	100		
120	19.3	20.5	30.7#
51	33.0	34.9	52.3#

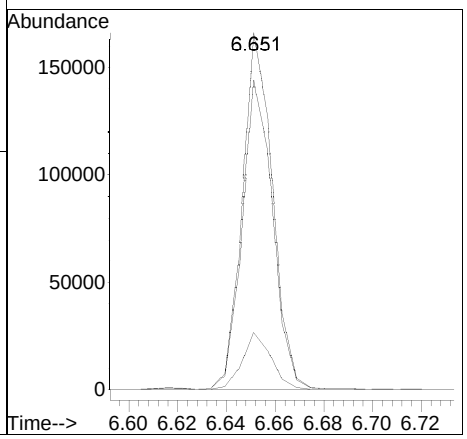


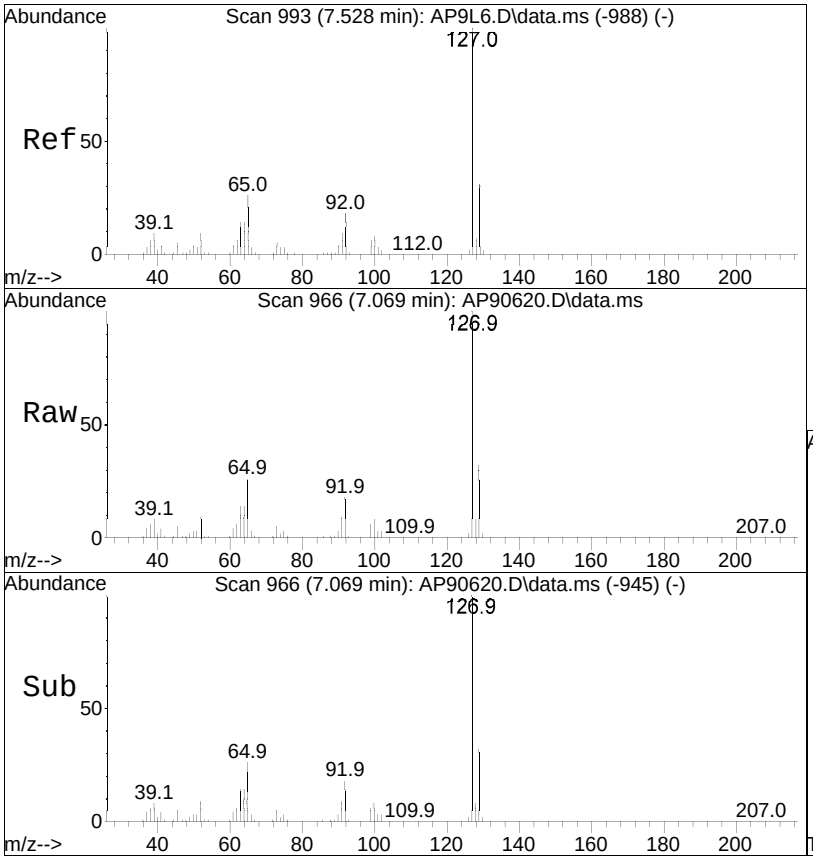


#30
m-Toluidine
Concen: 5.72 ug/ml
RT: 6.651 min Scan# 895
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:106 Resp: 142765

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.1	11.8	17.8

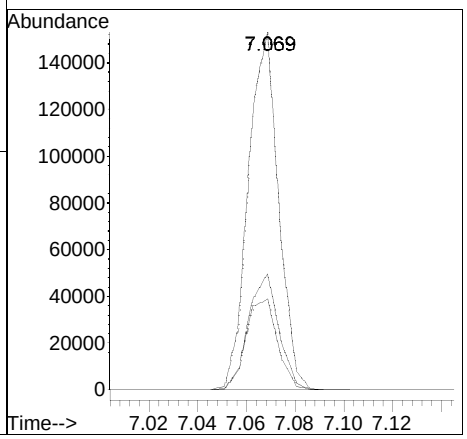


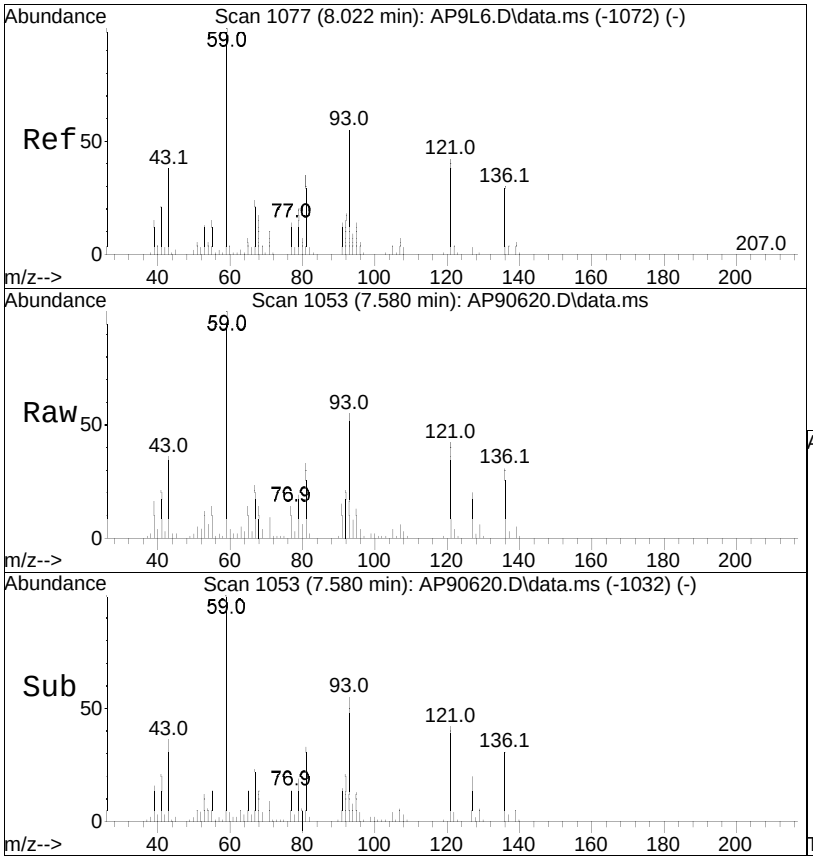


#31
2-Chloroaniline
Concen: 5.41 ug/ml
RT: 7.069 min Scan# 966
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:127 Resp: 130518

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.9	38.9
65	26.9	26.3	39.5

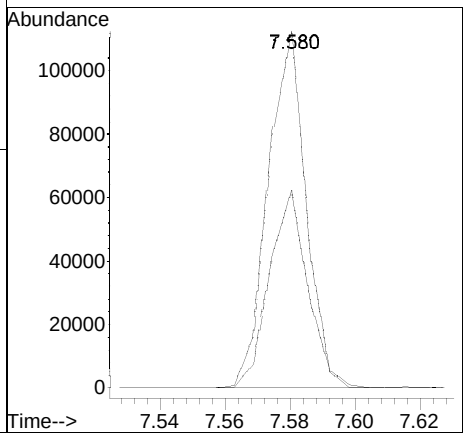


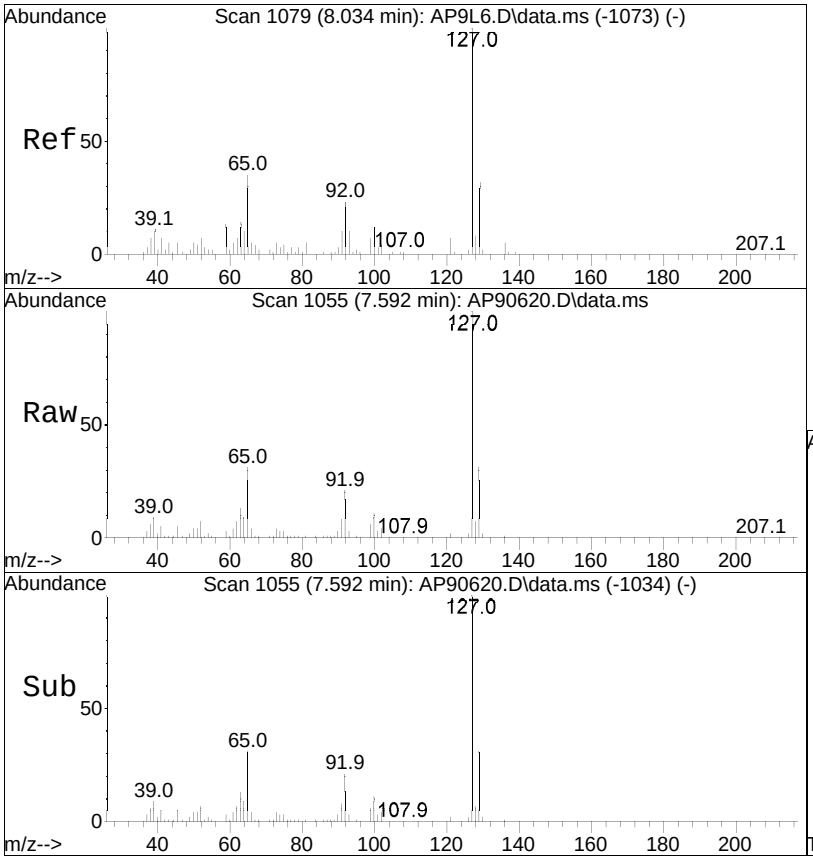


#55
a-Terpineol
Concen: 5.64 ug/ml
RT: 7.580 min Scan# 1053
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion: 59 Resp: 90464

Ion	Ratio	Lower	Upper
59	100		
93	57.0	35.6	53.4#

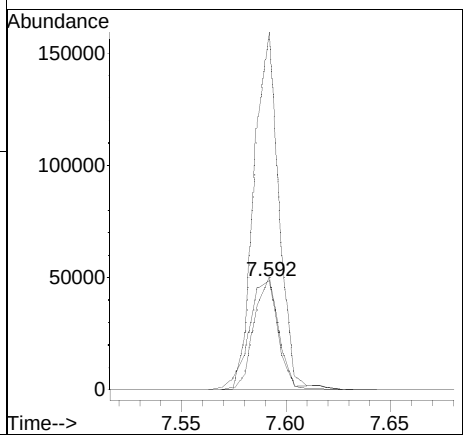


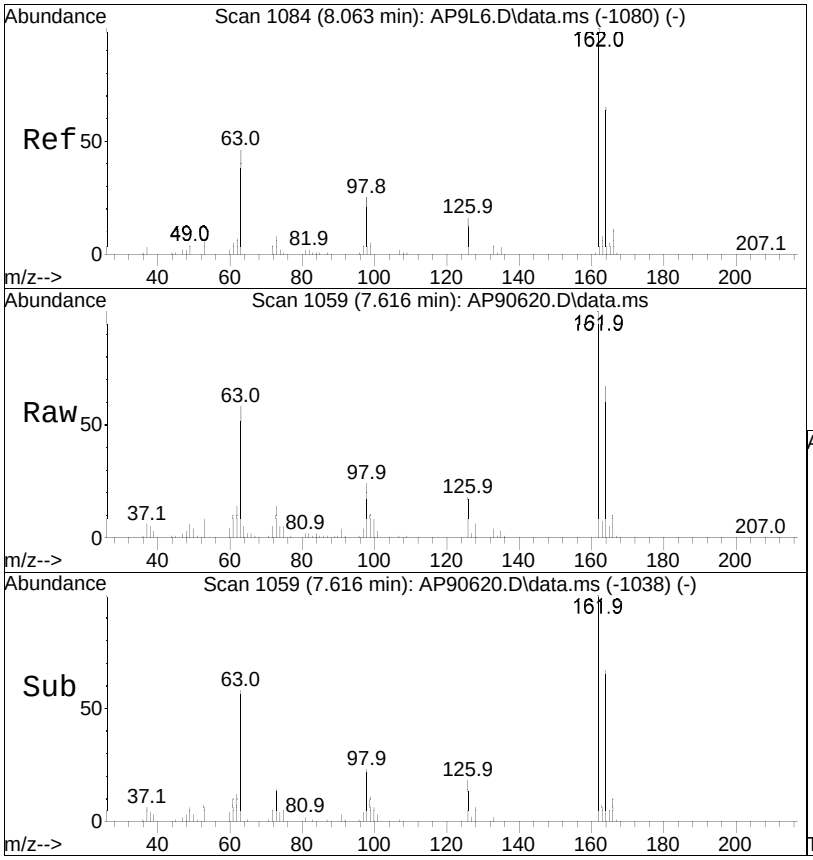


#56
3-Chloroaniline
Concen: 5.71 ug/ml
RT: 7.592 min Scan# 1055
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion: 65 Resp: 48791

Ion	Ratio	Lower	Upper
65	100		
127	268.4	243.2	364.8
129	84.7	78.8	118.2

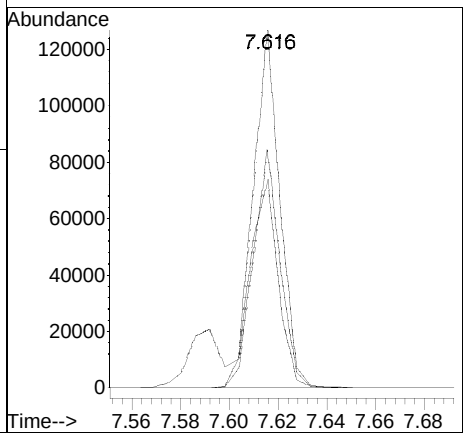


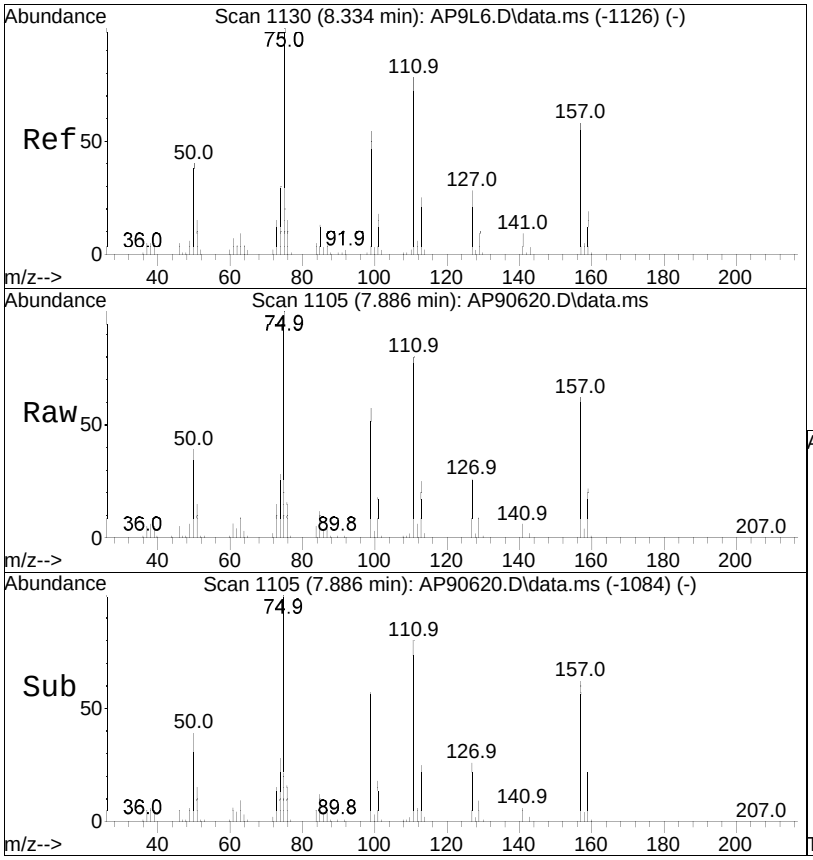


#57
2,6-Dichlorophenol
Concen: 5.72 ug/ml
RT: 7.616 min Scan# 1059
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:162 Resp: 96226

Ion	Ratio	Lower	Upper
162	100		
164	66.5	51.1	76.7
63	60.5	60.8	91.2#

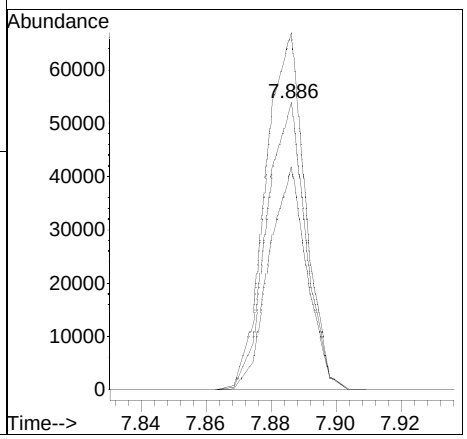


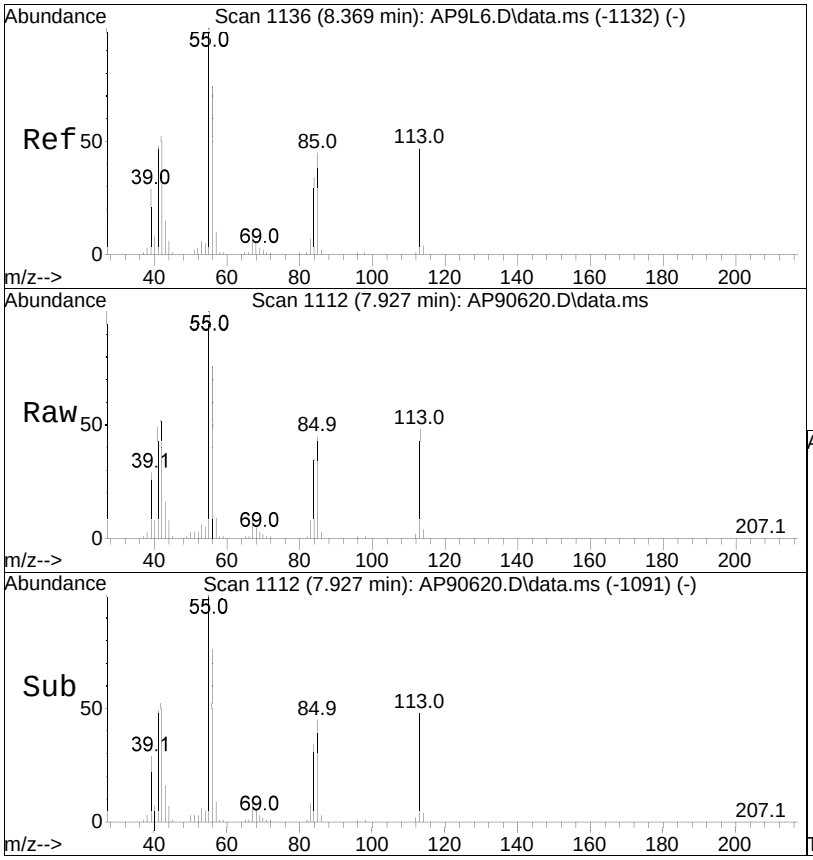


#58
1-chloro-2-nitrobenzene
Concen: 6.35 ug/ml
RT: 7.886 min Scan# 1105
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:111 Resp: 44651

Ion	Ratio	Lower	Upper
111	100		
157	75.7	0.0	0.0#
75	126.6	28.2	42.2#

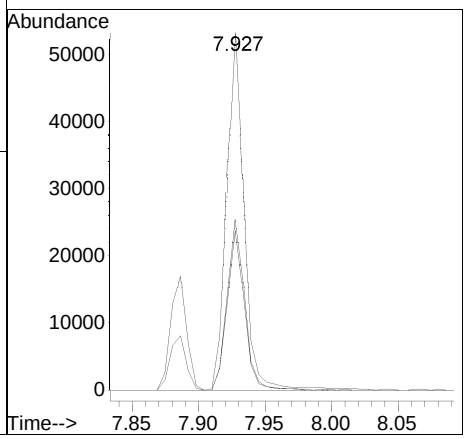


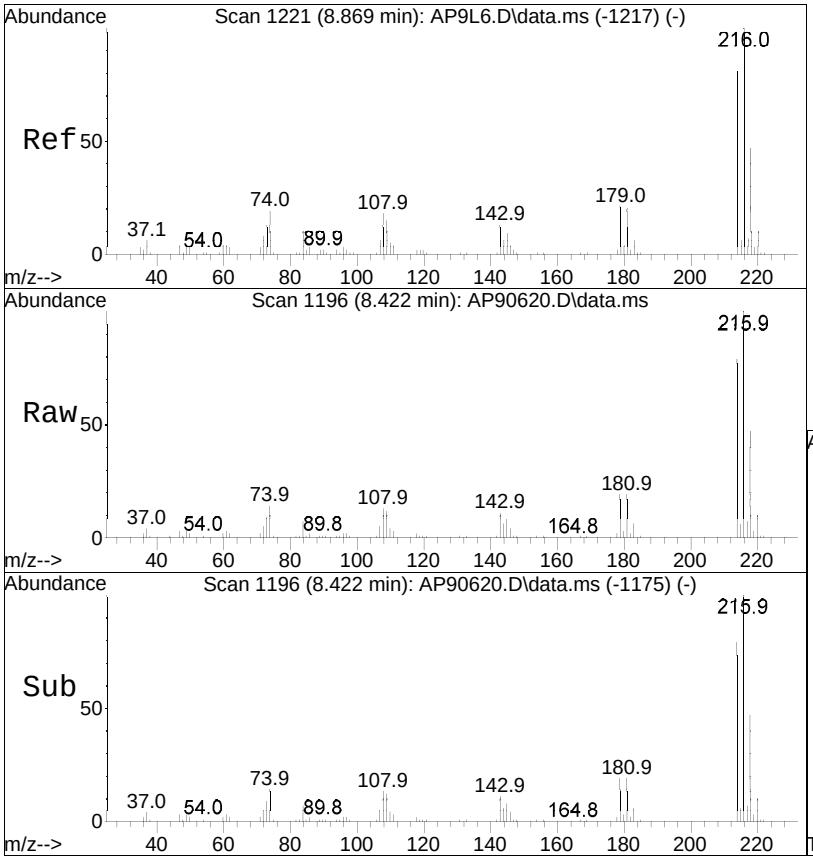


#59
Caprolactam
Concen: 5.63 ug/ml
RT: 7.927 min Scan# 1112
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion: 55 Resp: 48704

Ion	Ratio	Lower	Upper
55	100		
85	44.2	19.8	29.6#
113	48.2	29.6	44.4#

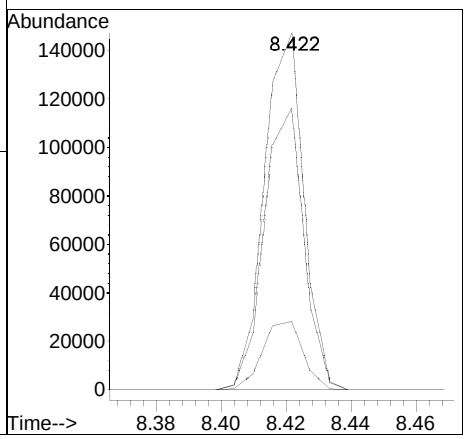


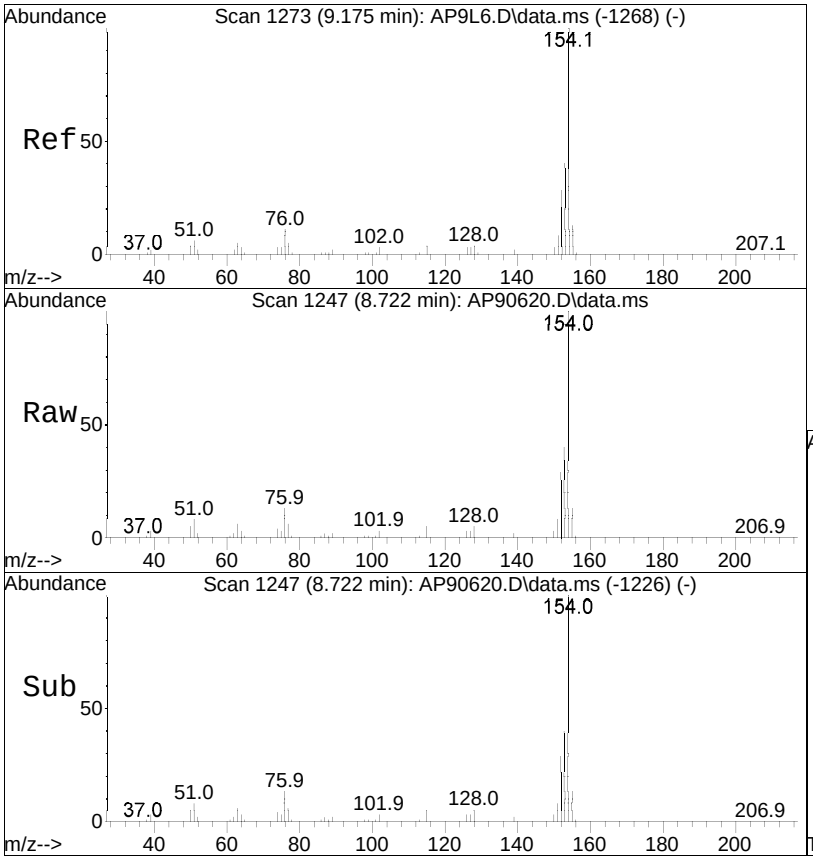


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.33 ug/ml
RT: 8.422 min Scan# 1196
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:216 Resp: 124196

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.7	95.5
179	19.9	19.0	28.6

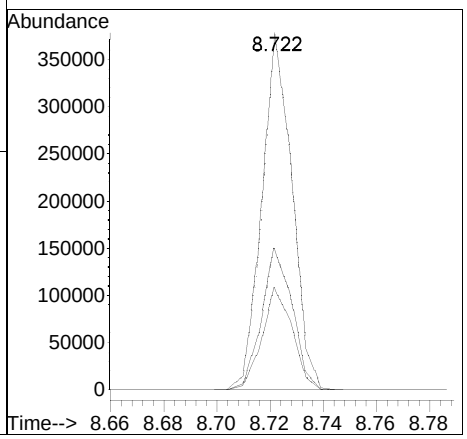


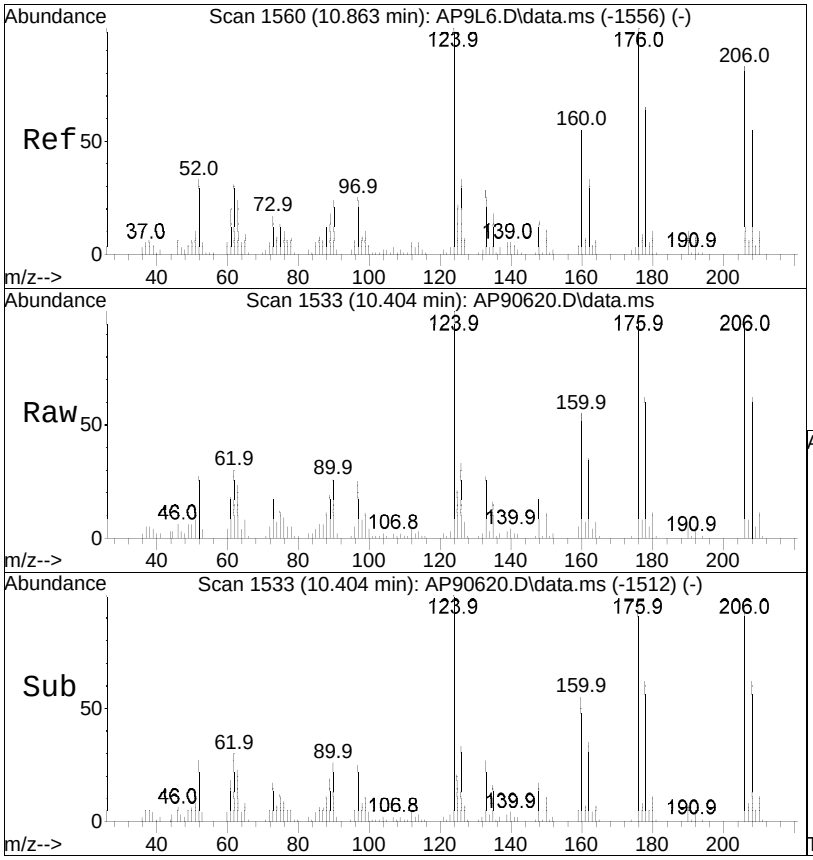


#61
Biphenyl
Concen: 5.46 ug/ml
RT: 8.722 min Scan# 1247
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:154 Resp: 294334

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	29.1	22.5	33.7

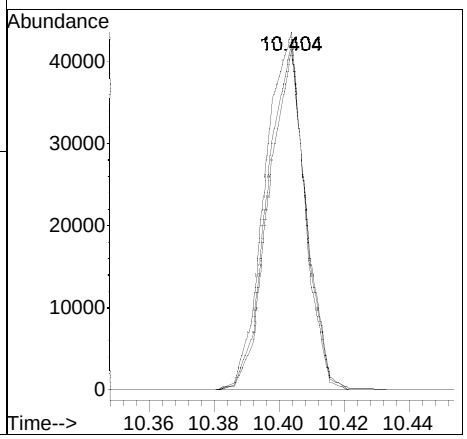


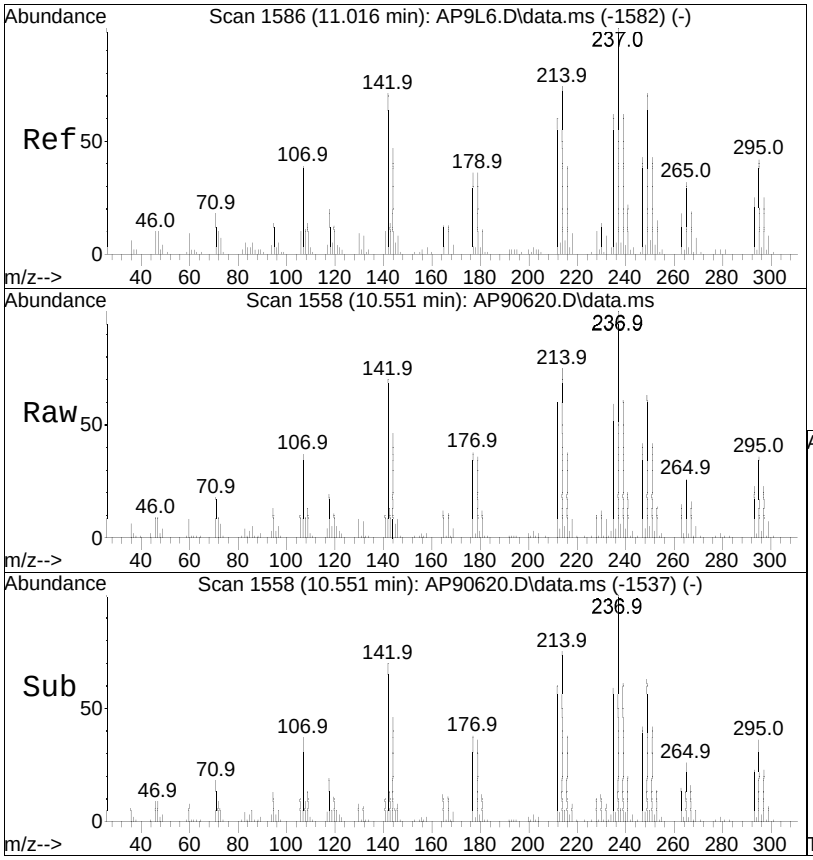


#83
Dichloran
Concen: 6.38 ug/ml
RT: 10.404 min Scan# 1533
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:206 Resp: 32790

Ion	Ratio	Lower	Upper
206	100		
176	104.0	104.6	157.0#
124	110.7	130.5	195.7#

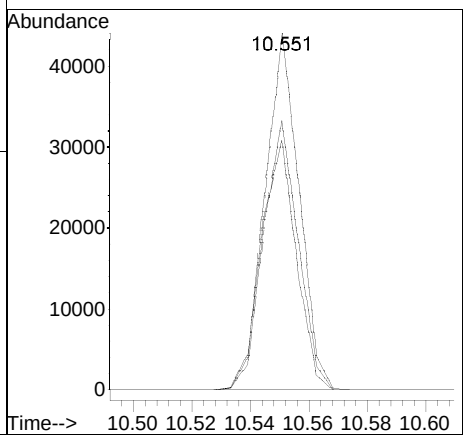


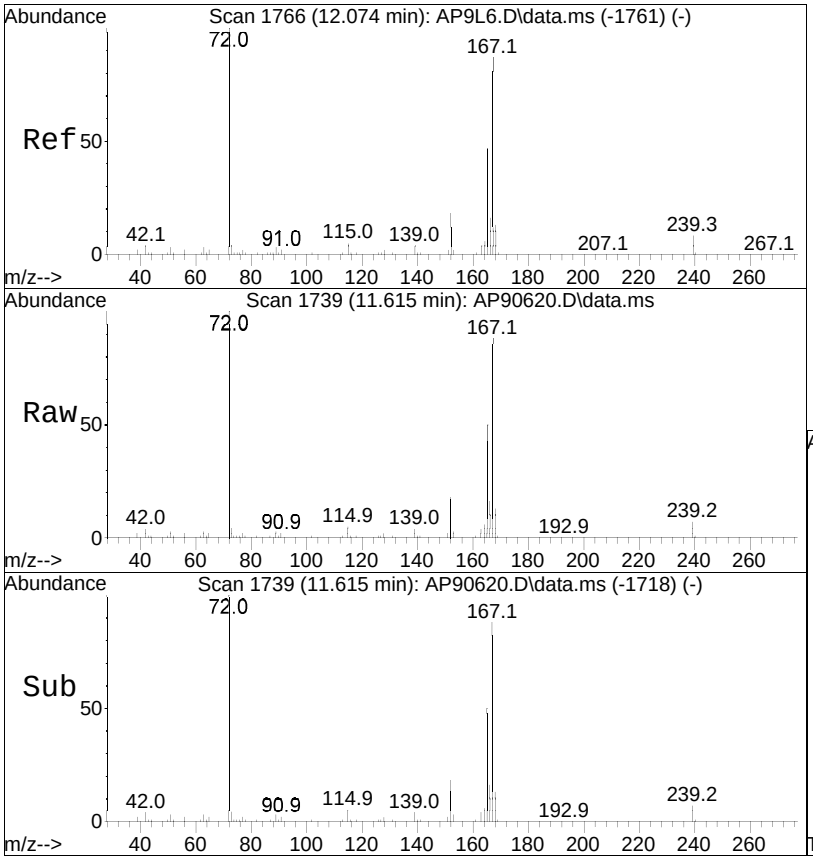


#84
Pentachloronitrobenzene
Concen: 6.35 ug/ml
RT: 10.551 min Scan# 1558
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:237 Resp: 35706

Ion	Ratio	Lower	Upper
237	100		
142	71.8	77.0	115.4#
214	76.6	58.2	87.4

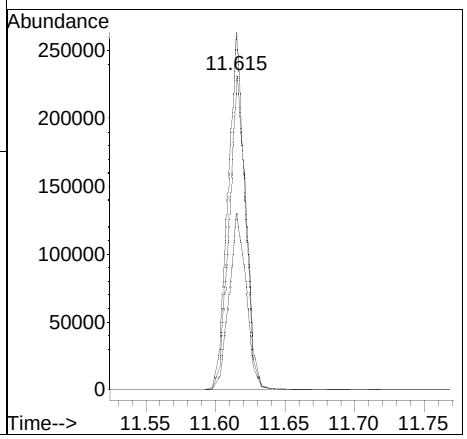




#98
Diphenamid
Concen: 5.30 ug/ml
RT: 11.615 min Scan# 1739
Delta R.T. 0.000 min
Lab File: AP90620.D
Acq: 20 Jun 2024 1:10 pm

Tgt Ion:167 Resp: 193079

Ion	Ratio	Lower	Upper
167	100		
72	112.2	109.7	164.5
165	57.3	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: AP90620.D	Operator	: SV107:mrg
Date Inj'd	: 6/20/2024 1:10 pm	Instrument	: SV107
Sample	: WG1937154-4,32,,AP9 10776	Quant Date	: 6/20/2024 1:43 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620RVT\
Data File : ADP0620.D
Acq On : 20 Jun 2024 1:36 pm
Operator : SV107:mrg
Sample : WG1937154-5,32,,ADP 10751 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 20 13:55:38 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:43:21 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	119	0.00
33	T	n-Decane		1.447	1.393	3.7	124	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	122	0.00
86	T	Atrazine		0.347	0.360	-3.7	123	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	126	0.00
100	T	n-Octadecane		0.393	0.406	-3.3	129	0.00
101	T	Parathion	*	5.000	4.974	0.5	141	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.556	20.1#	105	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : ADP0620.D
Acq On : 20 Jun 2024 1:36 pm
Operator : SV107:mrg
Sample : WG1937154-5,32,,ADP 10751 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 20 13:55:38 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:43:21 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.016	152	57965	4.000	ug/ml	-0.02
85) IS3_Acenaphthene-d10	9.269	164	132297	4.000	ug/ml	-0.02
99) IS3_Phenanthrene-d10	10.698	188	294448	4.000	ug/ml	-0.02
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.922	57	100967	4.815	ug/ml#	44
86) Atrazine	10.492	200	59513	5.184	ug/ml	95
100) n-Octadecane	10.704	57	149381	5.166	ug/ml#	1
101) Parathion	11.498	109	25441	4.974	ug/ml	95
102) 3,3'-Dimethylbenzidine	12.763	212	204518	3.992	ug/ml	99

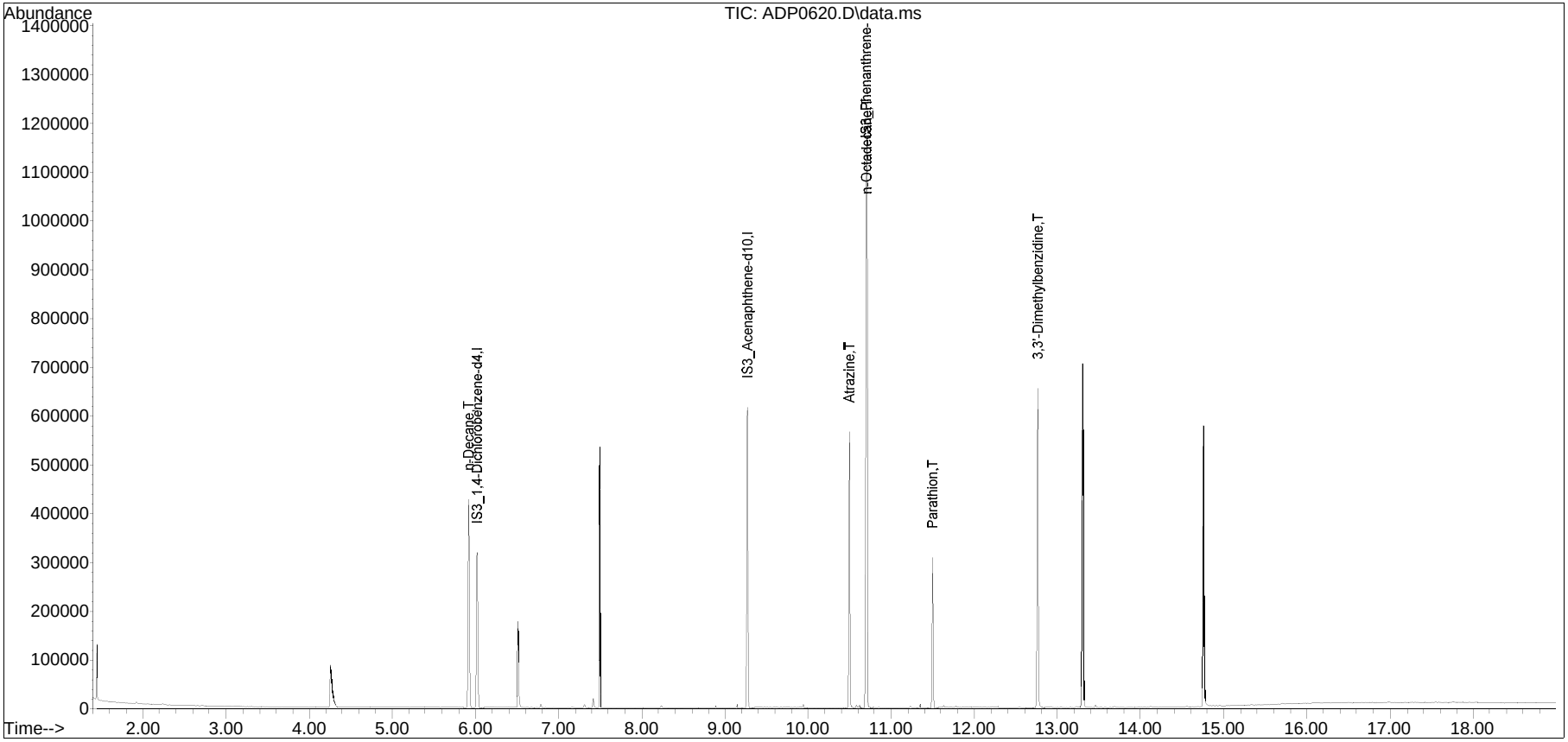
(#) = qualifier out of range (m) = manual integration (+) = signals summed

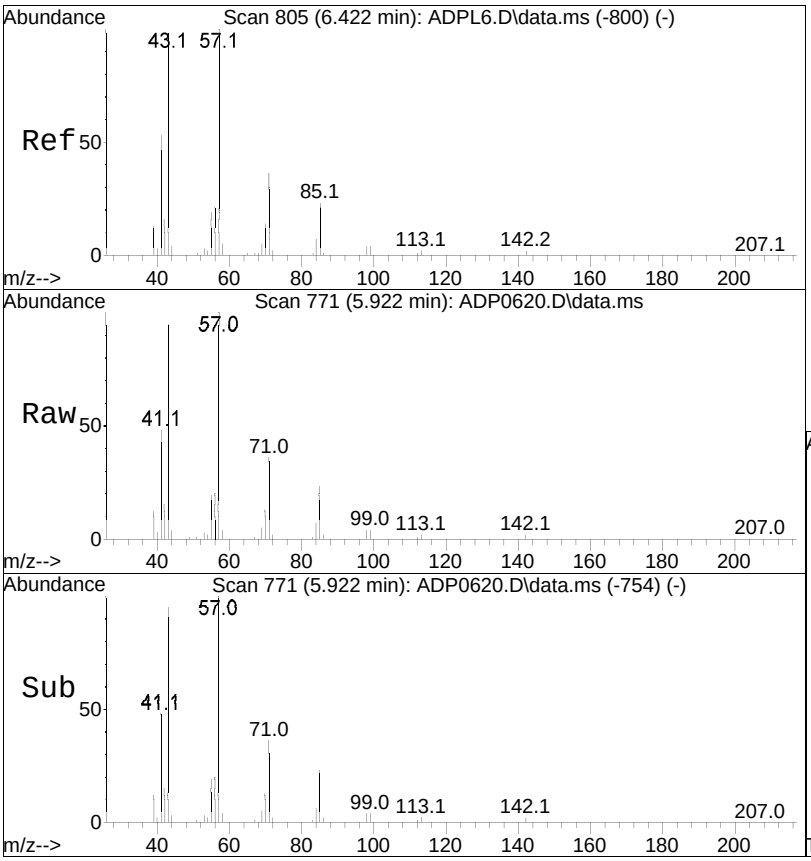
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : ADP0620.D
Acq On : 20 Jun 2024 1:36 pm
Operator : SV107:mrg
Sample : WG1937154-5,32,,ADP 10751 HNY0619A
Misc : WG1937154,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 20 13:55:38 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 13:43:21 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

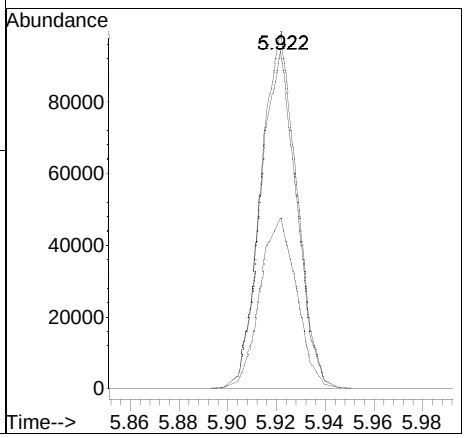


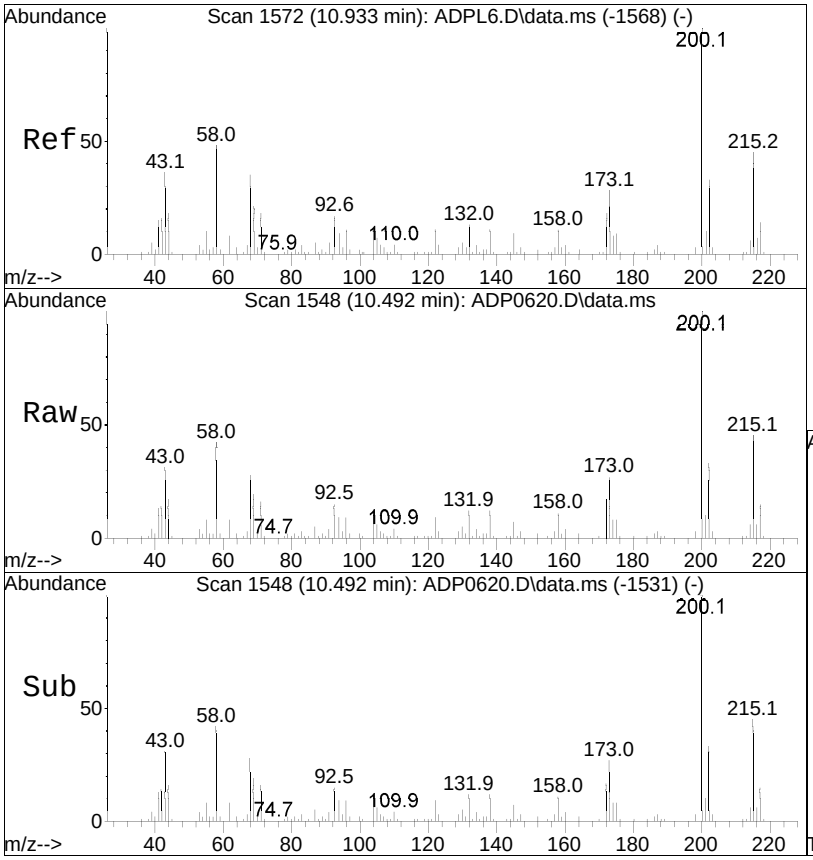


#33
n-Decane
Concen: 4.81 ug/ml
RT: 5.922 min Scan# 771
Delta R.T. -0.023 min
Lab File: ADP0620.D
Acq: 20 Jun 2024 1:36 pm

Tgt Ion: 57 Resp: 100967

Ion	Ratio	Lower	Upper
57	100		
43	94.5	0.2	0.2#
41	49.2	0.2	0.2#

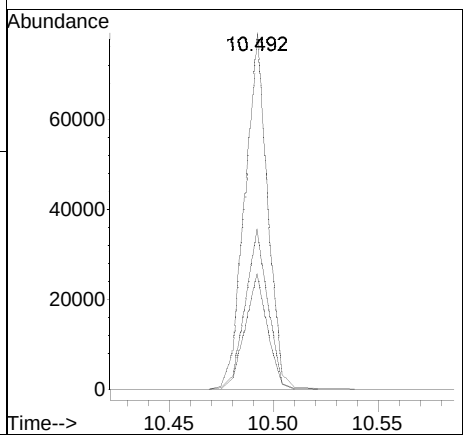


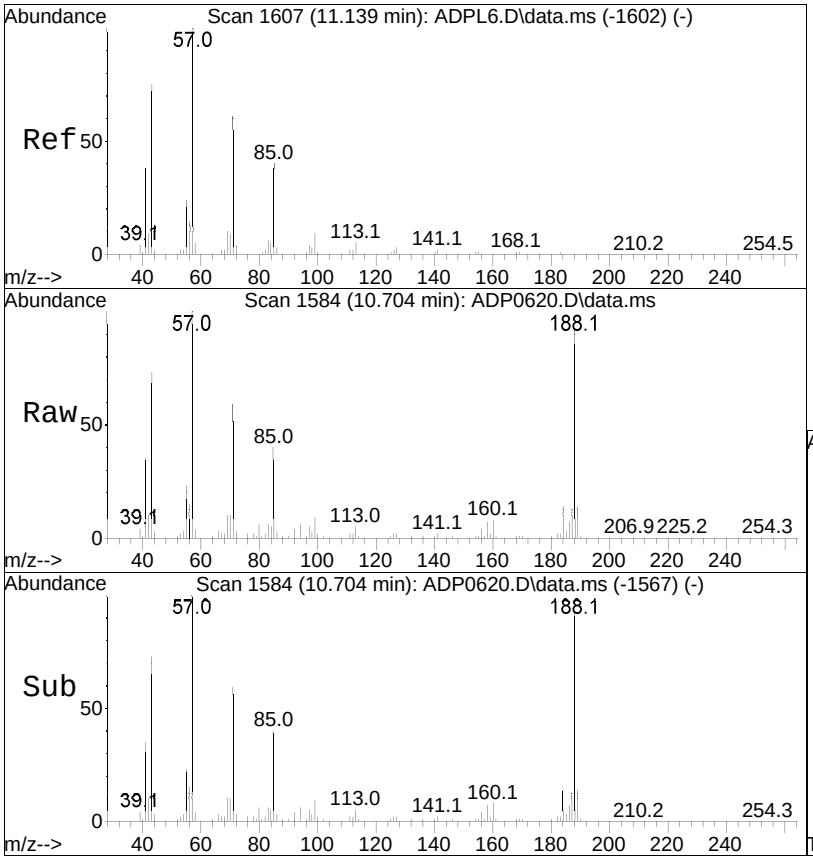


#86
Atrazine
Concen: 5.18 ug/ml
RT: 10.492 min Scan# 1548
Delta R.T. -0.023 min
Lab File: ADP0620.D
Acq: 20 Jun 2024 1:36 pm

Tgt Ion:200 Resp: 59513

Ion	Ratio	Lower	Upper
200	100		
202	32.0	25.8	38.6
215	44.8	40.2	60.4

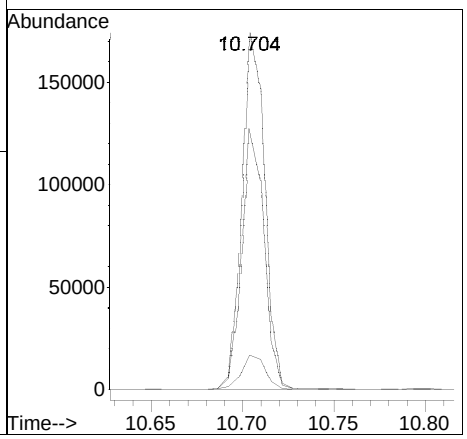


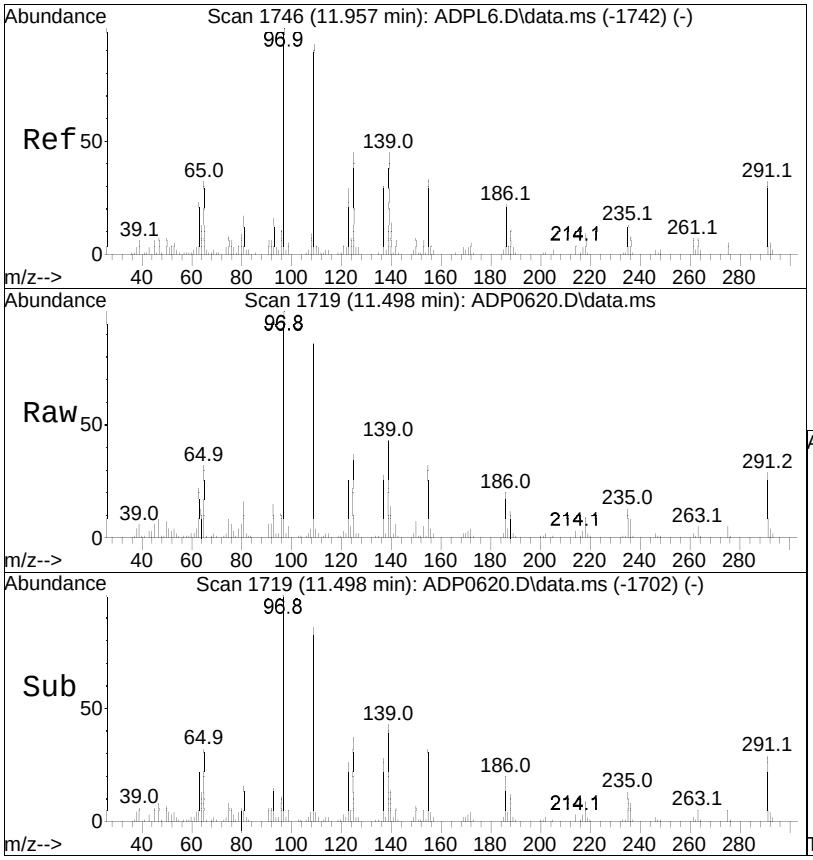


#100
n-Octadecane
Concen: 5.17 ug/ml
RT: 10.704 min Scan# 1584
Delta R.T. -0.023 min
Lab File: ADP0620.D
Acq: 20 Jun 2024 1:36 pm

Tgt Ion: 57 Resp: 149381

Ion	Ratio	Lower	Upper
57	100		
43	71.5	9.0	13.6#
70	10.2	0.2	0.2#

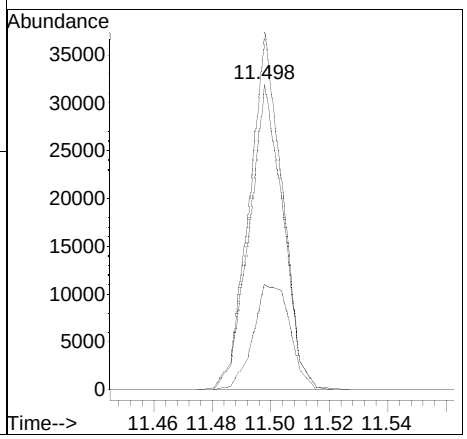


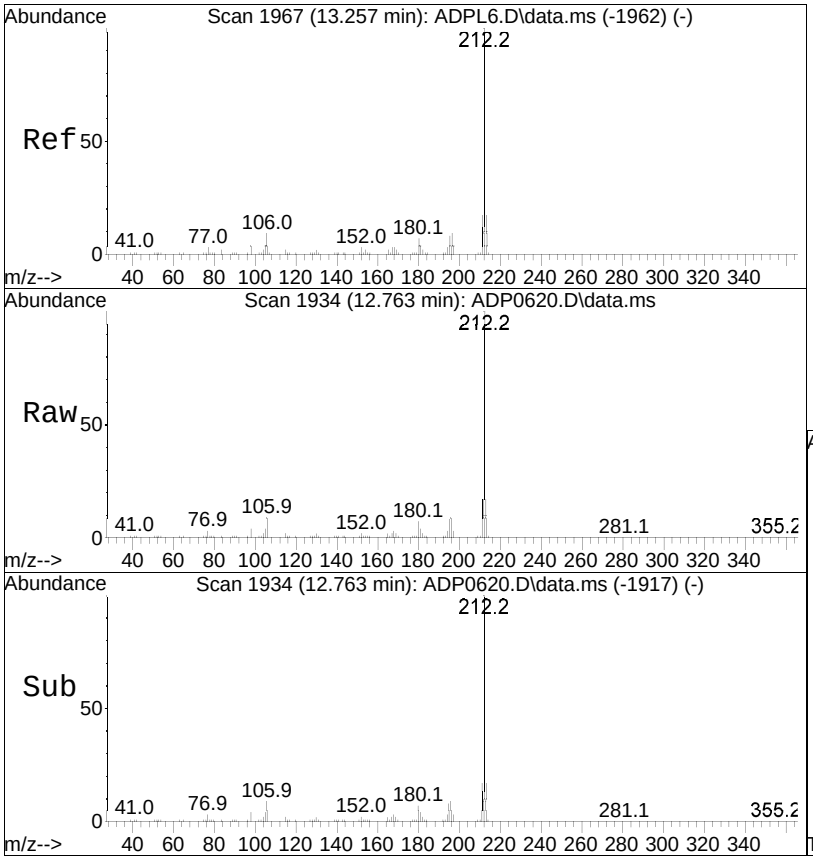


#101
Parathion
Concen: 4.97 ug/ml
RT: 11.498 min Scan# 1719
Delta R.T. -0.023 min
Lab File: ADP0620.D
Acq: 20 Jun 2024 1:36 pm

Tgt Ion:109 Resp: 25441

Ion	Ratio	Lower	Upper
109	100		
97	113.7	87.4	131.2
291	37.8	34.2	51.2

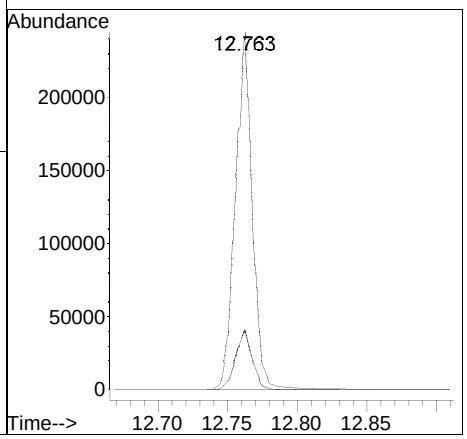




#102
3,3'-Dimethylbenzidine
Concen: 3.99 ug/ml
RT: 12.763 min Scan# 1934
Delta R.T. -0.023 min
Lab File: ADP0620.D
Acq: 20 Jun 2024 1:36 pm

Tgt Ion:212 Resp: 204518

Ion	Ratio	Lower	Upper
212	100		
211	16.9	12.9	19.3
213	16.8	13.2	19.8



Manual Integration Report

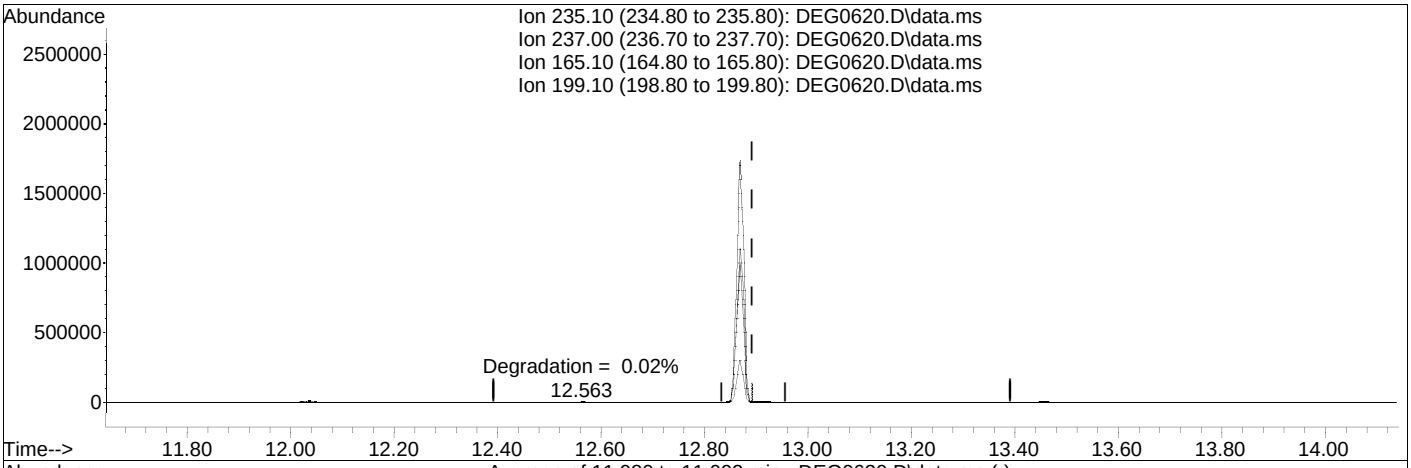
Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: ADP0620.D	Operator	: SV107:mrg
Date Inj'd	: 6/20/2024 1:36 pm	Instrument	: SV107
Sample	: WG1937154-5,32,,ADP 10751	Quant Date	: 6/20/2024 1:56 pm

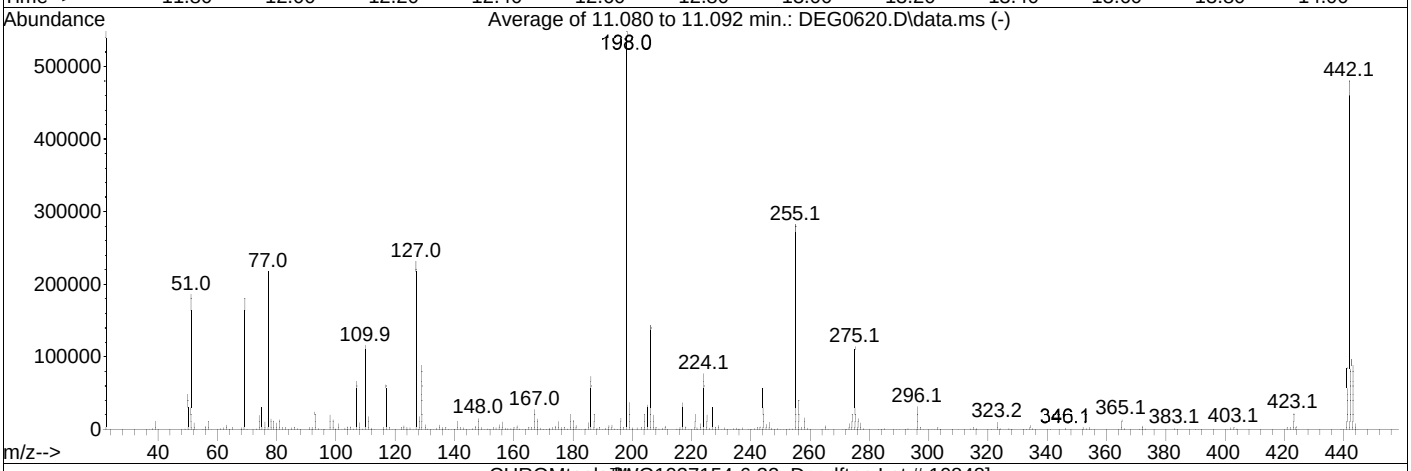
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240620RVT\
Data File : DEG0620.D
Acq On : 20 Jun 2024 12:18 pm
Operator : SV107:HNY
Sample : WG1937154-2,32,,Degdftpp Lot # 10848
Misc : WG1937154,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 20 12:38:57 2024
Quant Method : I:\8270\SV107\240620RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 23:15:09 2024
Response via : Initial Calibration





CHROMtools [WG1937154-6,32,,Degdftpp Lot # 10848]

(6) DDT (T)

12.869min (-0.023) 247.59

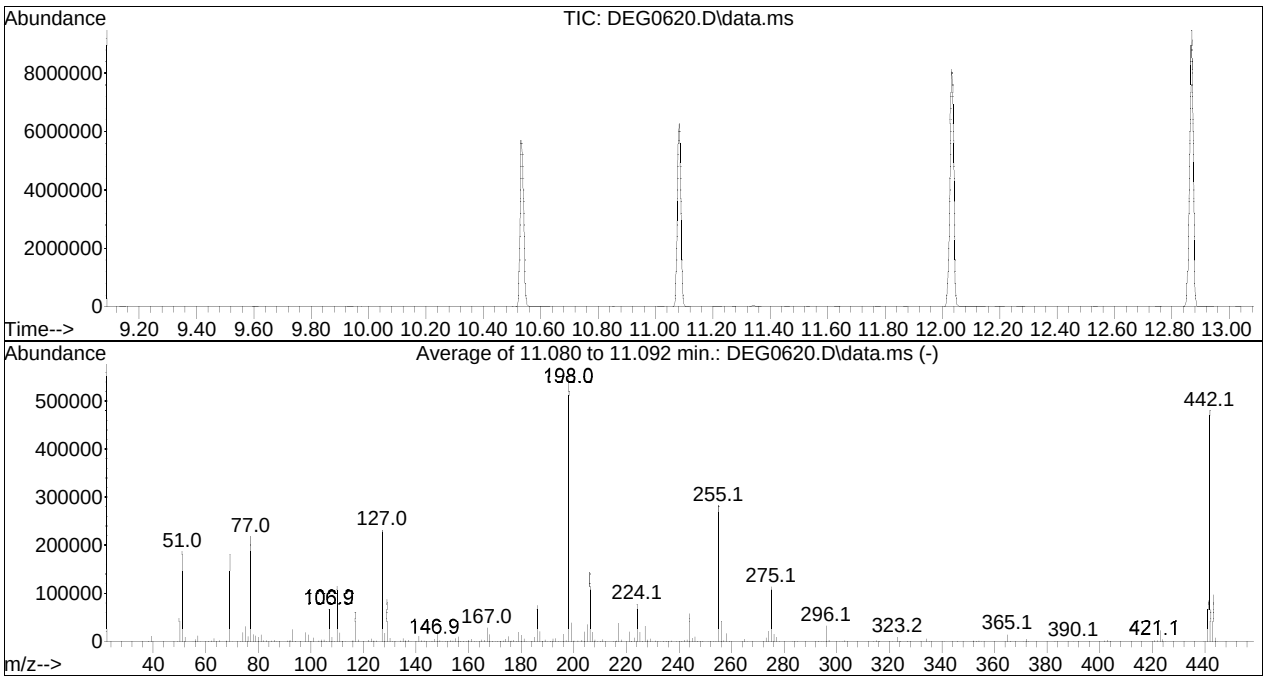
response 1509262

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.34
165.10	55.40	55.39
199.10	16.20	16.90

Data Path : I:\8270\SV107\240620RVT\
Data File : DEG0620.D
Acq On : 20 Jun 2024 12:18 pm
Operator : SV107:HNY
Sample : WG1937154-1,32,,Degdftpp Lot # 10848
Misc : WG1937154,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 20 13:43:21 2024



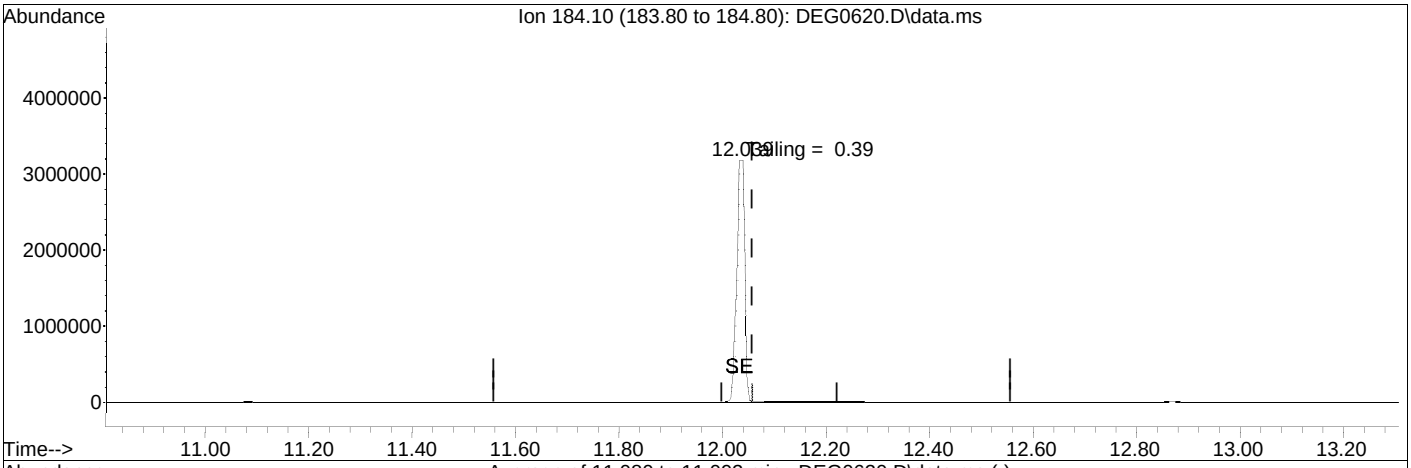
Spectrum Information: Average of 11.080 to 11.092 min.

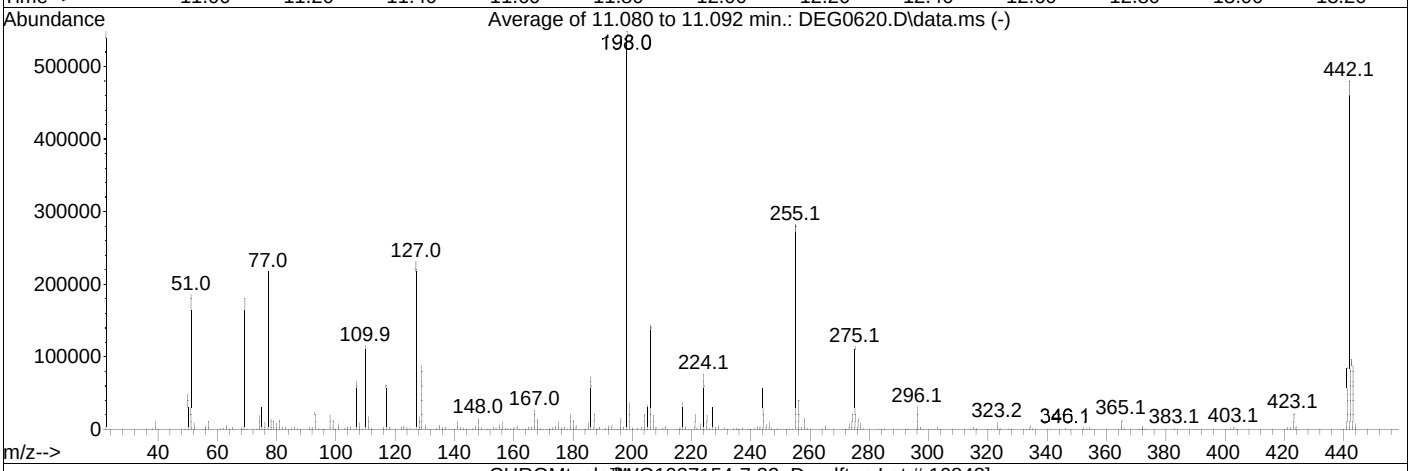
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.9	185819	PASS
68	69	0.00	2	1.4	2595	PASS
69	69	100	100	100.0	180704	PASS
70	69	0.00	2	0.5	939	PASS
127	198	10	80	42.1	231331	PASS
197	198	0.00	2	0.7	3713	PASS
198	198	100	100	100.0	548885	PASS
199	198	5	9	6.8	37140	PASS
275	198	10	60	20.7	113683	PASS
365	198	1	100	2.6	14118	PASS
441	442	0.01	24	17.7	85096	PASS
442	198	50	100	87.5	480277	PASS
443	442	15	24	20.1	96328	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240620RVT\
Data File : DEG0620.D
Acq On : 20 Jun 2024 12:18 pm
Operator : SV107:HNY
Sample : WG1937154-6,32,,Degdftpp Lot # 10848
Misc : WG1937154,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 20 12:38:57 2024
Quant Method : I:\8270\SV107\240620RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 23:15:09 2024
Response via : Initial Calibration





CHROMtools [WG1937154-7,32,,Degdftpp Lot # 10848]

(3) Benzidine (T)

12.039min (-0.018) 308.69

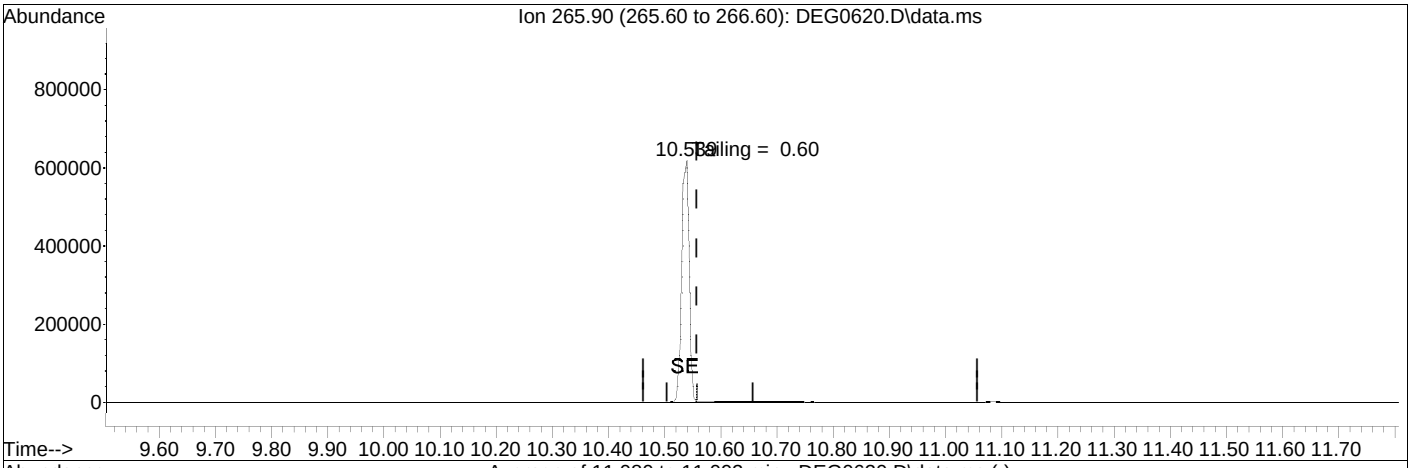
response 3142471

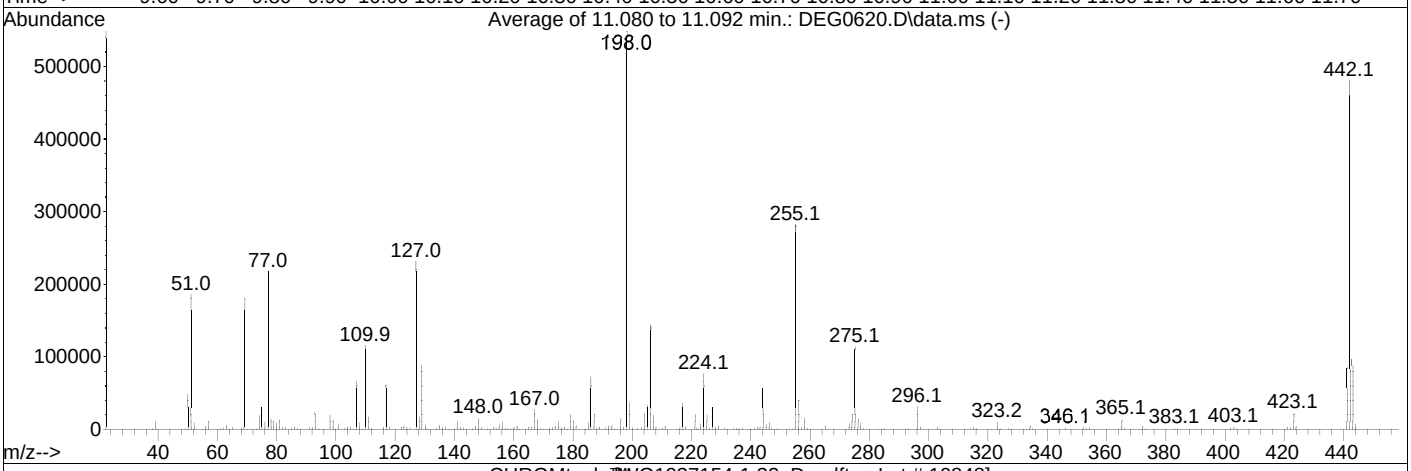
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240620RVT\
Data File : DEG0620.D
Acq On : 20 Jun 2024 12:18 pm
Operator : SV107:HNY
Sample : WG1937154-7,32,,Degdftpp Lot # 10848
Misc : WG1937154,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 20 12:38:57 2024
Quant Method : I:\8270\SV107\240620RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 23:15:09 2024
Response via : Initial Calibration





CHROMtools [WG1937154-1,32,,Degdftpp Lot # 10848]

(1) Pentachlorophenol (T)

10.539min (-0.018) 254.56

response 534668

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Nitrosodimethylamine	0.704	0.76	-	-8	20	137	0
Pyridine	1.199	1.305	-	-8.8	20	141	0
2-Fluorophenol	1.069	1.124	-	-5.1	20	135	0
Aniline	1.713	1.754	-	-2.4	20	133	0
2-Chlorophenol	1.178	1.238	-	-5.1	20	136	0
Phenol-d6	1.322	1.385	-	-4.8	20	136	0
Phenol	1.438	1.504	-	-4.6	20	137	0
Bis(2-chloroethyl)ether	1.185	1.256	-	-6	20	143	0
1,3-Dichlorobenzene	1.452	1.515	-	-4.3	20	138	0
1,4-Dichlorobenzene	1.478	1.519	-	-2.8	20	136	0
1,2-Dichlorobenzene	1.426	1.476	-	-3.5	20	137	0
Benzyl alcohol	1	1.002	-	-0.2	20	131	0
Bis(2-chloroisopropyl)ethe	1.623	1.859	-	-14.5	20	154	0
2-Methylphenol	1.031	1.074	-	-4.2	20	134	0
Hexachloroethane	0.545	0.594	-	-9	20	143	0
n-Nitrosodi-n-propylamine	0.879	0.899	-	-2.3	20	134	0
3-Methylphenol/4-Methylphe	1.084	1.162	-	-7.2	20	133	0
Nitrobenzene-d5	1.165	1.35	-	-15.9	20	145	0
Nitrobenzene	1.197	1.378	-	-15.1	20	144	0
Isophorone	2.31	2.38	-	-3	20	131	0
2-Nitrophenol	0.533	0.62	-	-16.3	20	154	0
2,4-Dimethylphenol	1.088	1.144	-	-5.1	20	135	0
Bis(2-chloroethoxy)methane	1.508	1.605	-	-6.4	20	141	0
2,4-Dichlorophenol	1.094	1.163	-	-6.3	20	132	0
1,2,4-Trichlorobenzene	1.318	1.358	-	-3	20	138	0
IS1_Naphthalene-d8	1	1	-	0	20	127	0
Naphthalene	0.996	1.011	-	-1.5	20	139	0
Benzoic Acid	5	5.214	-	-4.3	20	144	0
4-Chloroaniline	0.126	0.135	-	-7.1	20	143	0
Hexachlorobutadiene	0.211	0.214	-	-1.4	20	139	0
p-Chloro-m-cresol	0.272	0.286	-	-5.1	20	132	0
2-Methylnaphthalene	0.688	0.698	-	-1.5	20	136	0
1-Methylnaphthalene	0.235	0.244	-	-3.8	20	141	0
Hexachlorocyclopentadiene	0.205	0.234	-	-14.1	20	151	0
2,4,6-Trichlorophenol	0.237	0.263	-	-11	20	138	0
2,4,5-Trichlorophenol	0.251	0.277	-	-10.4	20	137	0
2-Fluorobiphenyl	0.866	0.874	-	-0.9	20	135	0
2-Chloronaphthalene	0.715	0.745	-	-4.2	20	140	0
2-Nitroaniline	0.173	0.198	-	-14.5	20	144	0
1,4-Dinitrobenzene	0.087	0.106	-	-21.8*	20	177	0
1,3-Dinitrobenzene	0.109	0.127	-	-16.5	20	163	0
Dimethyl phthalate	0.839	0.903	-	-7.6	20	142	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.129	-	-4.6	20	137	0
2,6-Dinitrotoluene	0.153	0.185	-	-20.9*	20	148	0
1,2-Dinitrobenzene	0.068	0.083	-	-22.1*	20	150	0
IS1_Acenaphthene-d10	1	1	-	0	20	126	0
3-Nitroaniline	0.259	0.298	-	-15.1	20	146	0
Acenaphthene	1.081	1.063	-	1.7	20	137	0
2,4-Dinitrophenol	5	5.242	-	-4.8	20	164	0
Dibenzofuran	1.757	1.753	-	0.2	20	138	0
2,4-Dinitrotoluene	5	5.221	-	-4.4	20	157	0
4-Nitrophenol	0.221	0.261	-	-18.1	20	159	0
2,3,5,6-Tetrachlorophenol	0.318	0.359	-	-12.9	20	140	0
2,3,4,6-Tetrachlorophenol	0.314	0.345	-	-9.9	20	135	0
Diethyl phthalate	1.301	1.368	-	-5.1	20	144	0
Fluorene	1.328	1.354	-	-2	20	138	0
4-Chlorophenyl phenyl ethe	0.672	0.671	-	0.1	20	138	0
4-Nitroaniline	0.262	0.292	-	-11.5	20	147	0
4,6-Dinitro-o-cresol	5	5.267	-	-5.3	20	176	0
NDPA/DPA	1.131	1.184	-	-4.7	20	141	0
Azobenzene	1.259	1.33	-	-5.6	20	140	0
2,4,6-Tribromophenol	0.171	0.177	-	-3.5	20	126	0
4-Bromophenyl phenyl ether	0.376	0.376	-	0	20	137	0
Hexachlorobenzene	0.431	0.409	-	5.1	20	132	0
Pentachlorophenol	0.252	0.223	-	11.5	20	119	0
IS1_Phenanthrene-d10	1	1	-	0	20	124	0
Phenanthrene	1.038	1.073	-	-3.4	20	141	0
Anthracene	1.03	1.064	-	-3.3	20	140	0
Carbazole	0.928	0.936	-	-0.9	20	133	0
Di-n-butylphthalate	1.088	1.092	-	-0.4	20	130	0
Fluoranthene	1.186	1.176	-	0.8	20	134	0
Benzidine	0.721	0.666	-	7.6	20	123	0
Pyrene	1.269	1.307	-	-3	20	140	0
4-Terphenyl-d14	0.875	0.849	-	3	20	132	0
Butyl benzyl phthalate	5	4.245	-	15.1	20	127	0
IS1_Chrysene-d12	1	1	-	0	20	113	0
Benzo(a)anthracene	1.335	1.336	-	-0.1	20	124	0
3,3'-Dichlorobenzidine	0.43	0.451	-	-4.9	20	118	0
Chrysene	1.276	1.314	-	-3	20	128	0
Bis(2-ethylhexyl)phthalate	5	4.579	-	8.4	20	120	0
Di-n-octylphthalate	5	4.236	-	15.3	20	115	0
Benzo(b)fluoranthene	1.178	1.282	-	-8.8	20	131	0
Benzo(k)fluoranthene	1.154	1.111	-	3.7	20	114	0
Benzo(a)pyrene	1.025	1.073	-	-4.7	20	124	0
IS1_Perylene-d12	1	1	-	0	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.042	-	-9.5	20	126	0
Dibenzo(a,h)anthracene	0.953	1.017	-	-6.7	20	113	0
Benzo(ghi)perylene	0.928	1.01	-	-8.8	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 13:10		
Lab File ID	: AP90620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	141	0
Benzaldehyde	1.024	1.068	-	-4.3	20	156	0
Acetophenone	1.77	1.845	-	-4.2	20	152	0
m-Toluidine	1.599	1.83	-	-14.4	20	157	0
2-Chloroaniline	1.546	1.673	-	-8.2	20	156	0
IS2_Naphthalene-d8	1	1	-	0	20	137	0
a-Terpineol	0.276	0.312	-	-13	20	165	0
3-Chloroaniline	0.147	0.168	-	-14.3	20	165	0
2,6-Dichlorophenol	0.29	0.332	-	-14.5	20	162	0
1-chloro-2-nitrobenzene	0.121	0.154	-	-27.3*	20	189	0
Caprolactam	0.149	0.168	-	-12.8	20	162	0
1,2,4,5-Tetrachlorobenzene	0.402	0.428	-	-6.5	20	159	0
Biphenyl	0.929	1.015	-	-9.3	20	163	0
IS2_Acenaphthene-d10	1	1	-	0	20	147	0
Dichloran	5	6.381	-	-27.6*	20	233	0
Pentachloronitrobenzene	5	6.355	-	-27.1*	20	214	0
IS2_Phenanthrene-d10	1	1	-	0	20	152	0
Diphenamid	0.445	0.472	-	-6.1	20	166	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 13:36		
Lab File ID	: ADP0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	119	0
n-Decane	1.447	1.393	-	3.7	20	124	0
IS3_Acenaphthene-d10	1	1	-	0	20	122	0
Atrazine	0.347	0.36	-	-3.7	20	123	0
IS3_Phenanthrene-d10	1	1	-	0	20	126	0
n-Octadecane	0.393	0.406	-	-3.3	20	129	0
Parathion	5	4.974	-	0.5	20	141	0
3,3'-Dimethylbenzidine	0.696	0.556	-	20.1*	20	105	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Nitrosodimethylamine	0.704	0.818	-	-16.2	20	147	0
Pyridine	1.199	1.281	-	-6.8	20	138	0
2-Fluorophenol	1.069	1.187	-	-11	20	142	0
Aniline	1.713	1.636	-	4.5	20	125	0
2-Chlorophenol	1.178	1.237	-	-5	20	137	0
Phenol-d6	1.322	1.456	-	-10.1	20	143	0
Phenol	1.438	1.55	-	-7.8	20	142	0
Bis(2-chloroethyl)ether	1.185	1.227	-	-3.5	20	140	0
1,3-Dichlorobenzene	1.452	1.471	-	-1.3	20	134	0
1,4-Dichlorobenzene	1.478	1.506	-	-1.9	20	135	0
1,2-Dichlorobenzene	1.426	1.435	-	-0.6	20	133	0
Benzyl alcohol	1	1.017	-	-1.7	20	133	0
Bis(2-chloroisopropyl)ethe	1.623	1.878	-	-15.7	20	155	0
2-Methylphenol	1.031	1.026	-	0.5	20	129	0
Hexachloroethane	0.545	0.571	-	-4.8	20	137	0
n-Nitrosodi-n-propylamine	0.879	0.89	-	-1.3	20	132	0
3-Methylphenol/4-Methylphe	1.084	1.105	-	-1.9	20	127	0
Nitrobenzene-d5	1.165	1.308	-	-12.3	20	141	0
Nitrobenzene	1.197	1.313	-	-9.7	20	138	0
Isophorone	2.31	2.28	-	1.3	20	126	0
2-Nitrophenol	0.533	0.589	-	-10.5	20	147	0
2,4-Dimethylphenol	1.088	0.719	-	33.9*	20	85	0
Bis(2-chloroethoxy)methane	1.508	1.519	-	-0.7	20	134	0
2,4-Dichlorophenol	1.094	1.1	-	-0.5	20	125	0
1,2,4-Trichlorobenzene	1.318	1.267	-	3.9	20	129	0
IS1_Naphthalene-d8	1	1	-	0	20	124	0
Naphthalene	0.996	0.991	-	0.5	20	133	0
Benzoic Acid	5	5.836	-	-16.7	20	164	0
4-Chloroaniline	0.126	0.128	-	-1.6	20	132	0
Hexachlorobutadiene	0.211	0.195	-	7.6	20	124	0
p-Chloro-m-cresol	0.272	0.277	-	-1.8	20	125	0
2-Methylnaphthalene	0.688	0.656	-	4.7	20	124	0
1-Methylnaphthalene	0.235	0.228	-	3	20	128	0
Hexachlorocyclopentadiene	0.205	0.175	-	14.6	20	110	0
2,4,6-Trichlorophenol	0.237	0.23	-	3	20	118	0
2,4,5-Trichlorophenol	0.251	0.256	-	-2	20	124	0
2-Fluorobiphenyl	0.866	0.802	-	7.4	20	121	0
2-Chloronaphthalene	0.715	0.67	-	6.3	20	123	0
2-Nitroaniline	0.173	0.187	-	-8.1	20	133	0
1,4-Dinitrobenzene	0.087	0.091	-	-4.6	20	149	0
1,3-Dinitrobenzene	0.109	0.11	-	-0.9	20	137	0
Dimethyl phthalate	0.839	0.798	-	4.9	20	122	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.067	-	1.1	20	126	0
2,6-Dinitrotoluene	0.153	0.161	-	-5.2	20	125	0
1,2-Dinitrobenzene	0.068	0.071	-	-4.4	20	127	0
IS1_Acenaphthene-d10	1	1	-	0	20	114	0
3-Nitroaniline	0.259	0.3	-	-15.8	20	133	0
Acenaphthene	1.081	1.041	-	3.7	20	122	0
2,4-Dinitrophenol	5	5.483	-	-9.7	20	156	0
Dibenzofuran	1.757	1.682	-	4.3	20	119	0
2,4-Dinitrotoluene	5	4.927	-	1.5	20	133	0
4-Nitrophenol	0.221	0.263	-	-19	20	144	0
2,3,5,6-Tetrachlorophenol	0.318	0.32	-	-0.6	20	113	0
2,3,4,6-Tetrachlorophenol	0.314	0.32	-	-1.9	20	113	0
Diethyl phthalate	1.301	1.264	-	2.8	20	120	0
Fluorene	1.328	1.301	-	2	20	120	0
4-Chlorophenyl phenyl ethe	0.672	0.63	-	6.3	20	117	0
4-Nitroaniline	0.262	0.284	-	-8.4	20	129	0
4,6-Dinitro-o-cresol	5	5.118	-	-2.4	20	154	0
NDPA/DPA	1.131	1.117	-	1.2	20	120	0
Azobenzene	1.259	1.317	-	-4.6	20	125	0
2,4,6-Tribromophenol	0.171	0.152	-	11.1	20	98	0
4-Bromophenyl phenyl ether	0.376	0.322	-	14.4	20	106	0
Hexachlorobenzene	0.431	0.335	-	22.3*	20	98	0
Pentachlorophenol	0.252	0.221	-	12.3	20	106	0
IS1_Phenanthrene-d10	1	1	-	0	20	110	0
Phenanthrene	1.038	1.008	-	2.9	20	117	0
Anthracene	1.03	1.004	-	2.5	20	117	0
Carbazole	0.928	0.92	-	0.9	20	115	0
Di-n-butylphthalate	1.088	1.047	-	3.8	20	110	0
Fluoranthene	1.186	1.09	-	8.1	20	109	0
Benzidine	0.721	0.548	-	24*	20	89	0
Pyrene	1.269	1.18	-	7	20	111	0
4-Terphenyl-d14	0.875	0.761	-	13	20	104	0
Butyl benzyl phthalate	5	4.358	-	12.8	20	116	0
IS1_Chrysene-d12	1	1	-	0	20	99	0
Benzo(a)anthracene	1.335	1.295	-	3	20	105	0
3,3'-Dichlorobenzidine	0.43	0.448	-	-4.2	20	103	0
Chrysene	1.276	1.287	-	-0.9	20	110	0
Bis(2-ethylhexyl)phthalate	5	4.913	-	1.7	20	113	0
Di-n-octylphthalate	5	4.826	-	3.5	20	117	0
Benzo(b)fluoranthene	1.178	1.236	-	-4.9	20	111	0
Benzo(k)fluoranthene	1.154	1.18	-	-2.3	20	106	0
Benzo(a)pyrene	1.025	1.097	-	-7	20	111	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.073	-	-12.7	20	119	0
Dibenzo(a,h)anthracene	0.953	1.039	-	-9	20	107	0
Benzo(ghi)perylene	0.928	1.005	-	-8.3	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:25		
Lab File ID	: AP90620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	146	0
Benzaldehyde	1.024	1.034	-	-1	20	157	0
Acetophenone	1.77	1.745	-	1.4	20	149	0
m-Toluidine	1.599	1.735	-	-8.5	20	154	0
2-Chloroaniline	1.546	1.545	-	0.1	20	150	0
IS2_Naphthalene-d8	1	1	-	0	20	139	0
a-Terpineol	0.276	0.307	-	-11.2	20	165	0
3-Chloroaniline	0.147	0.159	-	-8.2	20	158	0
2,6-Dichlorophenol	0.29	0.307	-	-5.9	20	152	0
1-chloro-2-nitrobenzene	0.121	0.138	-	-14	20	172	0
Caprolactam	0.149	0.158	-	-6	20	155	0
1,2,4,5-Tetrachlorobenzene	0.402	0.37	-	8	20	139	0
Biphenyl	0.929	0.867	-	6.7	20	141	0
IS2_Acenaphthene-d10	1	1	-	0	20	133	0
Dichloran	5	5.27	-	-5.4	20	169	0
Pentachloronitrobenzene	5	5.112	-	-2.2	20	152	0
IS2_Phenanthrene-d10	1	1	-	0	20	125	0
Diphenamid	0.445	0.448	-	-0.7	20	129	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:51		
Lab File ID	: ADP0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	140	0
n-Decane	1.447	1.397	-	3.5	20	146	0
IS3_Acenaphthene-d10	1	1	-	0	20	124	0
Atrazine	0.347	0.289	-	16.7	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	116	0
n-Octadecane	0.393	0.398	-	-1.3	20	116	0
Parathion	5	4.577	-	8.5	20	118	0
3,3'-Dimethylbenzidine	0.696	0.458	-	34.2*	20	79	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	128	0
n-Nitrosodimethylamine	0.704	0.777	-	-10.4	20	144	0
Pyridine	1.199	1.324	-	-10.4	20	147	0
2-Fluorophenol	1.069	1.129	-	-5.6	20	139	0
Aniline	1.713	1.797	-	-4.9	20	141	0
2-Chlorophenol	1.178	1.23	-	-4.4	20	140	0
Phenol-d6	1.322	1.417	-	-7.2	20	143	0
Phenol	1.438	1.53	-	-6.4	20	144	0
Bis(2-chloroethyl)ether	1.185	1.254	-	-5.8	20	147	0
1,3-Dichlorobenzene	1.452	1.521	-	-4.8	20	143	0
1,4-Dichlorobenzene	1.478	1.54	-	-4.2	20	142	0
1,2-Dichlorobenzene	1.426	1.48	-	-3.8	20	141	0
Benzyl alcohol	1	1.035	-	-3.5	20	139	0
Bis(2-chloroisopropyl)ethe	1.623	1.863	-	-14.8	20	158	0
2-Methylphenol	1.031	1.072	-	-4	20	138	0
Hexachloroethane	0.545	0.588	-	-7.9	20	145	0
n-Nitrosodi-n-propylamine	0.879	0.949	-	-8	20	145	0
3-Methylphenol/4-Methylphe	1.084	1.184	-	-9.2	20	140	0
Nitrobenzene-d5	1.165	1.374	-	-17.9	20	152	0
Nitrobenzene	1.197	1.38	-	-15.3	20	148	0
Isophorone	2.31	2.442	-	-5.7	20	139	0
2-Nitrophenol	0.533	0.635	-	-19.1	20	163	0
2,4-Dimethylphenol	1.088	1.147	-	-5.4	20	139	0
Bis(2-chloroethoxy)methane	1.508	1.606	-	-6.5	20	146	0
2,4-Dichlorophenol	1.094	1.219	-	-11.4	20	143	0
1,2,4-Trichlorobenzene	1.318	1.369	-	-3.9	20	143	0
IS1_Naphthalene-d8	1	1	-	0	20	130	0
Naphthalene	0.996	1.023	-	-2.7	20	144	0
Benzoic Acid	5	5.898	-	-18	20	175	0
4-Chloroaniline	0.126	0.135	-	-7.1	20	148	0
Hexachlorobutadiene	0.211	0.217	-	-2.8	20	145	0
p-Chloro-m-cresol	0.272	0.294	-	-8.1	20	140	0
2-Methylnaphthalene	0.688	0.691	-	-0.4	20	138	0
1-Methylnaphthalene	0.235	0.244	-	-3.8	20	145	0
Hexachlorocyclopentadiene	0.205	0.226	-	-10.2	20	150	0
2,4,6-Trichlorophenol	0.237	0.255	-	-7.6	20	137	0
2,4,5-Trichlorophenol	0.251	0.277	-	-10.4	20	141	0
2-Fluorobiphenyl	0.866	0.868	-	-0.2	20	138	0
2-Chloronaphthalene	0.715	0.731	-	-2.2	20	141	0
2-Nitroaniline	0.173	0.204	-	-17.9	20	152	0
1,4-Dinitrobenzene	0.087	0.11	-	-26.4*	20	189	0
1,3-Dinitrobenzene	0.109	0.125	-	-14.7	20	165	0
Dimethyl phthalate	0.839	0.873	-	-4.1	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.12	-	-3.8	20	139	0
2,6-Dinitrotoluene	0.153	0.181	-	-18.3	20	148	0
1,2-Dinitrobenzene	0.068	0.081	-	-19.1	20	151	0
IS1_Acenaphthene-d10	1	1	-	0	20	125	0
3-Nitroaniline	0.259	0.324	-	-25.1*	20	157	0
Acenaphthene	1.081	1.085	-	-0.4	20	139	0
2,4-Dinitrophenol	5	6.058	-	-21.2*	20	193	0
Dibenzofuran	1.757	1.795	-	-2.2	20	140	0
2,4-Dinitrotoluene	5	5.325	-	-6.5	20	159	0
4-Nitrophenol	0.221	0.281	-	-27.1*	20	169	0
2,3,5,6-Tetrachlorophenol	0.318	0.369	-	-16	20	143	0
2,3,4,6-Tetrachlorophenol	0.314	0.351	-	-11.8	20	136	0
Diethyl phthalate	1.301	1.397	-	-7.4	20	146	0
Fluorene	1.328	1.387	-	-4.4	20	140	0
4-Chlorophenyl phenyl ethe	0.672	0.681	-	-1.3	20	138	0
4-Nitroaniline	0.262	0.313	-	-19.5	20	156	0
4,6-Dinitro-o-cresol	5	5.726	-	-14.5	20	191	0
NDPA/DPA	1.131	1.2	-	-6.1	20	142	0
Azobenzene	1.259	1.383	-	-9.8	20	144	0
2,4,6-Tribromophenol	0.171	0.18	-	-5.3	20	127	0
4-Bromophenyl phenyl ether	0.376	0.375	-	0.3	20	135	0
Hexachlorobenzene	0.431	0.402	-	6.7	20	129	0
Pentachlorophenol	0.252	0.264	-	-4.8	20	139	0
IS1_Phenanthrene-d10	1	1	-	0	20	125	0
Phenanthrene	1.038	1.076	-	-3.7	20	143	0
Anthracene	1.03	1.064	-	-3.3	20	141	0
Carbazole	0.928	0.982	-	-5.8	20	140	0
Di-n-butylphthalate	1.088	1.128	-	-3.7	20	136	0
Fluoranthene	1.186	1.233	-	-4	20	142	0
Benzidine	0.721	0.699	-	3.1	20	130	0
Pyrene	1.269	1.321	-	-4.1	20	143	0
4-Terphenyl-d14	0.875	0.856	-	2.2	20	134	0
Butyl benzyl phthalate	5	4.635	-	7.3	20	141	0
IS1_Chrysene-d12	1	1	-	0	20	121	0
Benzo(a)anthracene	1.335	1.366	-	-2.3	20	136	0
3,3'-Dichlorobenzidine	0.43	0.47	-	-9.3	20	132	0
Chrysene	1.276	1.306	-	-2.4	20	136	0
Bis(2-ethylhexyl)phthalate	5	4.917	-	1.7	20	138	0
Di-n-octylphthalate	5	4.954	-	0.9	20	147	0
Benzo(b)fluoranthene	1.178	1.303	-	-10.6	20	142	0
Benzo(k)fluoranthene	1.154	1.185	-	-2.7	20	130	0
Benzo(a)pyrene	1.025	1.142	-	-11.4	20	141	0
IS1_Perylene-d12	1	1	-	0	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.06	-	-11.3	20	140	0
Dibenzo(a,h)anthracene	0.953	1.101	-	-15.5	20	134	0
Benzo(ghi)perylene	0.928	1.058	-	-14	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:51		
Lab File ID	: AP90621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	143	0
Benzaldehyde	1.024	1.071	-	-4.6	20	160	0
Acetophenone	1.77	1.88	-	-6.2	20	158	0
m-Toluidine	1.599	1.825	-	-14.1	20	160	0
2-Chloroaniline	1.546	1.674	-	-8.3	20	159	0
IS2_Naphthalene-d8	1	1	-	0	20	138	0
a-Terpineol	0.276	0.32	-	-15.9	20	171	0
3-Chloroaniline	0.147	0.17	-	-15.6	20	168	0
2,6-Dichlorophenol	0.29	0.334	-	-15.2	20	164	0
1-chloro-2-nitrobenzene	0.121	0.156	-	-28.9*	20	193	0
Caprolactam	0.149	0.174	-	-16.8	20	169	0
1,2,4,5-Tetrachlorobenzene	0.402	0.409	-	-1.7	20	153	0
Biphenyl	0.929	0.987	-	-6.2	20	159	0
IS2_Acenaphthene-d10	1	1	-	0	20	143	0
Dichloran	5	6.179	-	-23.6*	20	219	0
Pentachloronitrobenzene	5	5.861	-	-17.2	20	191	0
IS2_Phenanthrene-d10	1	1	-	0	20	141	0
Diphenamid	0.445	0.505	-	-13.5	20	165	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 16:17		
Lab File ID	: ADP0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Decane	1.447	1.457	-	-0.7	20	135	0
IS3_Acenaphthene-d10	1	1	-	0	20	123	0
Atrazine	0.347	0.363	-	-4.6	20	125	0
IS3_Phenanthrene-d10	1	1	-	0	20	121	0
n-Octadecane	0.393	0.428	-	-8.9	20	130	0
Parathion	5	5.328	-	-6.6	20	147	0
3,3'-Dimethylbenzidine	0.696	0.588	-	15.5	20	106	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620NRVT\
Data File : ABN0620n.D
Acq On : 21 Jun 2024 2:00 am
Operator : SV107:sz
Sample : wg1937320-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1937320,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 21 02:21:54 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:22:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	124	0.00
2	t	n-Nitrosodimethylamine		0.704	0.818	-16.2	147	0.00
3	t	Pyridine		1.199	1.281	-6.8	138	0.00
4	S	2-Fluorophenol		1.069	1.187	-11.0	142	0.00
5	T	Aniline		1.713	1.636	4.5	125	0.00
6	t	2-Chlorophenol		1.178	1.237	-5.0	137	0.00
7	S	Phenol-d6		1.322	1.456	-10.1	143	0.00
8	T	Phenol		1.438	1.550	-7.8	142	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.227	-3.5	140	0.00
10	T	1,3-Dichlorobenzene		1.452	1.471	-1.3	134	0.00
11	T	1,4-Dichlorobenzene		1.478	1.506	-1.9	135	0.00
12	T	1,2-Dichlorobenzene		1.426	1.435	-0.6	133	0.00
13	t	Benzyl alcohol		1.000	1.017	-1.7	133	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.878	-15.7	155	0.00
15	T	2-Methylphenol		1.031	1.026	0.5	129	0.00
16	T	Hexachloroethane		0.545	0.571	-4.8	137	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.890	-1.3	132	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.105	-1.9	127	0.00
19	S	Nitrobenzene-d5		1.165	1.308	-12.3	141	0.00
20	T	Nitrobenzene		1.197	1.313	-9.7	138	0.00
21	T	Isophorone		2.310	2.280	1.3	126	0.00
22	T	2-Nitrophenol		0.533	0.589	-10.5	147	0.00
23	T	2,4-Dimethylphenol		1.088	0.719	33.9#	85	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.519	-0.7	134	0.00
25	T	2,4-Dichlorophenol		1.094	1.100	-0.5	125	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.267	3.9	129	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	124	0.00
35	T	Naphthalene		0.996	0.991	0.5	133	0.00
36	T	Benzoic Acid	*	5.000	5.836	-16.7	164	0.00
37	T	4-Chloroaniline		0.126	0.128	-1.6	132	0.00
38	T	Hexachlorobutadiene		0.211	0.195	7.6	124	0.00
39	T	p-Chloro-m-cresol		0.272	0.277	-1.8	125	0.00
40	T	2-Methylnaphthalene		0.688	0.656	4.7	124	0.00
41	T	1-Methylnaphthalene		0.235	0.228	3.0	128	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.175	14.6	110	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.230	3.0	118	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.256	-2.0	124	0.00
45	S	2-Fluorobiphenyl		0.866	0.802	7.4	121	0.00

Data Path : I:\8270\SV107\240620NRVT\
Data File : ABN0620n.D
Acq On : 21 Jun 2024 2:00 am
Operator : SV107:sz
Sample : wg1937320-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1937320,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 21 02:21:54 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:22:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.670	6.3	123	0.00
47	T	2-Nitroaniline		0.173	0.187	-8.1	133	0.00
48	T	1,4-Dinitrobenzene		0.087	0.091	-4.6	149	0.00
49	T	1,3-Dinitrobenzene		0.109	0.110	-0.9	137	0.00
50	T	Dimethyl phthalate		0.839	0.798	4.9	122	0.00
51	T	Acenaphthylene		1.079	1.067	1.1	126	0.00
52	T	2,6-Dinitrotoluene		0.153	0.161	-5.2	125	0.00
53	T	1,2-Dinitrobenzene		0.068	0.071	-4.4	127	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	114	0.00
63	T	3-Nitroaniline		0.259	0.300	-15.8	133	0.00
64	T	Acenaphthene		1.081	1.041	3.7	122	0.00
65	T	2,4-Dinitrophenol	*	5.000	5.483	-9.7	156	0.00
66	T	Dibenzofuran		1.757	1.682	4.3	119	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.927	1.5	133	0.00
68	T	4-Nitrophenol		0.221	0.263	-19.0	144	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.320	-0.6	113	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.320	-1.9	113	0.00
71	T	Diethyl phthalate		1.301	1.264	2.8	120	0.00
72	T	Fluorene		1.328	1.301	2.0	120	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.630	6.3	117	0.00
74	T	4-Nitroaniline		0.262	0.284	-8.4	129	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	5.118	-2.4	154	0.00
76	T	NDPA/DPA		1.131	1.117	1.2	120	0.00
77	T	Azobenzene		1.259	1.317	-4.6	125	0.00
78	S	2,4,6-Tribromophenol		0.171	0.152	11.1	98	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.322	14.4	106	0.00
80	T	Hexachlorobenzene		0.431	0.335	22.3#	98	0.00
81	T	Pentachlorophenol		0.252	0.221	12.3	106	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	110	0.00
88	T	Phenanthrene		1.038	1.008	2.9	117	0.00
89	T	Anthracene		1.030	1.004	2.5	117	0.00
90	T	Carbazole		0.928	0.920	0.9	115	0.00
91	T	Di-n-butylphthalate		1.088	1.047	3.8	110	0.00
92	T	Fluoranthene		1.186	1.090	8.1	109	0.00
93	T	Benzidine		0.721	0.548	24.0#	89	0.00
94	T	Pyrene		1.269	1.180	7.0	111	0.00
95	S	4-Terphenyl-d14		0.875	0.761	13.0	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620NRVT\
Data File : ABN0620n.D
Acq On : 21 Jun 2024 2:00 am
Operator : SV107:sz
Sample : wg1937320-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1937320,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 21 02:21:54 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:22:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.358	12.8	116	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	99	0.00
104	T	Benzo(a)anthracene		1.335	1.295	3.0	105	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.448	-4.2	103	0.00
106	T	Chrysene		1.276	1.287	-0.9	110	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.913	1.7	113	0.00
108	T	Di-n-octylphthalate	*	5.000	4.826	3.5	117	0.00
109	T	Benzo(b)fluoranthene		1.178	1.236	-4.9	111	0.00
110	T	Benzo(k)fluoranthene		1.154	1.180	-2.3	106	0.00
111	T	Benzo(a)pyrene		1.025	1.097	-7.0	111	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	99	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.073	-12.7	119	0.00
114	T	Dibenzo(a,h)anthracene		0.953	1.039	-9.0	107	0.00
115	T	Benzo(ghi)perylene		0.928	1.005	-8.3	113	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : ABN0620n.D
Acq On : 21 Jun 2024 2:00 am
Operator : SV107:sz
Sample : wg1937320-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1937320,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 21 02:21:54 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:22:24 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.954	152	64707	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	7.442	136	235755	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	9.219	164	141034	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	10.648	188	276864	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	13.248	240	231677	4.000	ug/ml	0.00
112) IS1_Perylene-d12	14.683	264	238143	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.584	112	95999	5.551	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 277.55%#			
7) Phenol-d6	5.584	99	117807	5.510	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 275.50%#			
19) Nitrobenzene-d5	6.654	82	105787	5.615	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 561.50%#			
45) 2-Fluorobiphenyl	8.589	172	236221	4.627	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 462.70%#			
78) 2,4,6-Tribromophenol	9.989	330	26753	4.449	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 222.45%#			
95) 4-Terphenyl-d14	12.230	244	263489	4.350	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 435.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.607	74	66131	5.809	ug/ml#	72
3) Pyridine	1.631	79	103603	5.340	ug/ml#	64
5) Aniline	5.513	93	132342	4.776	ug/ml	98
6) 2-Chlorophenol	5.666	128	100061	5.250	ug/ml	96
8) Phenol	5.601	94	125382	5.389	ug/ml	98
9) Bis(2-chloroethyl)ether	5.666	93	99206	5.175	ug/ml#	81
10) 1,3-Dichlorobenzene	5.866	146	118981	5.066	ug/ml	98
11) 1,4-Dichlorobenzene	5.972	146	121847	5.097	ug/ml	99
12) 1,2-Dichlorobenzene	6.166	146	116092	5.034	ug/ml	98
13) Benzyl alcohol	6.195	79	82238	5.082	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.384	45	151927	5.787	ug/ml#	56
15) 2-Methylphenol	6.390	108	83017	4.979	ug/ml	98
16) Hexachloroethane	6.572	117	46205	5.241	ug/ml#	70
17) n-Nitrosodi-n-propylamine	6.537	70	71976	5.060	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.590	108	89373	5.095	ug/ml	99
20) Nitrobenzene	6.678	77	106210	5.486	ug/ml	97
21) Isophorone	6.972	82	184410	4.934	ug/ml	95
22) 2-Nitrophenol	7.048	139	47639	5.523	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : ABN0620n.D
Acq On : 21 Jun 2024 2:00 am
Operator : SV107:sz
Sample : wg1937320-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1937320,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 21 02:21:54 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:22:24 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.172	107	58152	3.305	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.266	93	122890	5.039	ug/ml	100
25) 2,4-Dichlorophenol	7.325	162	89011	5.031	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.401	180	102517	4.807	ug/ml	97
35) Naphthalene	7.466	128	292100	4.977	ug/ml	99
36) Benzoic Acid	7.284	105	64119	5.836	ug/ml	92
37) 4-Chloroaniline	7.560	65	37574	5.075	ug/ml	95
38) Hexachlorobutadiene	7.642	225	57583	4.638	ug/ml	98
39) p-Chloro-m-cresol	8.107	107	81510	5.079	ug/ml	98
40) 2-Methylnaphthalene	8.195	142	193463	4.768	ug/ml	95
41) 1-Methylnaphthalene	8.289	115	67118	4.851	ug/ml	95
42) Hexachlorocyclopentadiene	8.378	237	51509	4.259	ug/ml	97
43) 2,4,6-Trichlorophenol	8.501	196	67921	4.867	ug/ml	99
44) 2,4,5-Trichlorophenol	8.531	196	75348	5.091	ug/ml	99
46) 2-Chloronaphthalene	8.672	162	197389	4.682	ug/ml	96
47) 2-Nitroaniline	8.795	138	55202	5.413	ug/ml	95
48) 1,4-Dinitrobenzene	8.931	168	26866	5.241	ug/ml	87
49) 1,3-Dinitrobenzene	9.007	168	32468	5.067	ug/ml#	1
50) Dimethyl phthalate	9.013	163	235123	4.756	ug/ml#	98
51) Acenaphthylene	9.072	152	314463	4.943	ug/ml	98
52) 2,6-Dinitrotoluene	9.048	165	47451	5.278	ug/ml	88
53) 1,2-Dinitrobenzene	9.083	168	21065	5.244	ug/ml#	1
63) 3-Nitroaniline	9.201	138	52932	5.786	ug/ml#	99
64) Acenaphthene	9.248	154	183469	4.813	ug/ml	93
65) 2,4-Dinitrophenol	9.301	184	27420	5.483	ug/ml	90
66) Dibenzofuran	9.419	168	296550	4.788	ug/ml#	83
67) 2,4-Dinitrotoluene	9.436	165	66982	4.927	ug/ml#	82
68) 4-Nitrophenol	9.407	65	46308	5.932	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.519	232	56364	5.031	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.560	232	56371	5.095	ug/ml	97
71) Diethyl phthalate	9.707	149	222802	4.856	ug/ml	98
72) Fluorene	9.754	166	229274	4.896	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.783	204	111024	4.686	ug/ml	91
74) 4-Nitroaniline	9.789	138	50101	5.413	ug/ml#	89
75) 4,6-Dinitro-o-cresol	9.825	198	37126	5.118	ug/ml#	71
76) NDPA/DPA	9.901	169	196970	4.938	ug/ml	93
77) Azobenzene	9.930	77	232145	5.229	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.248	248	56754	4.277	ug/ml	93
80) Hexachlorobenzene	10.289	284	58981	3.882	ug/ml	93
81) Pentachlorophenol	10.489	266	38935	4.390	ug/ml	100
88) Phenanthrene	10.672	178	348855	4.855	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : ABN0620n.D
Acq On : 21 Jun 2024 2:00 am
Operator : SV107:sz
Sample : wg1937320-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1937320,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 21 02:21:54 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:22:24 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	10.719	178	347486	4.875	ug/ml	99
90) Carbazole	10.895	167	318224	4.954	ug/ml	98
91) Di-n-butylphthalate	11.301	149	362409	4.811	ug/ml	99
92) Fluoranthene	11.819	202	377113	4.594	ug/ml#	93
93) Benzidine	11.983	184	189784	3.805	ug/ml#	95
94) Pyrene	12.030	202	408252	4.649	ug/ml	98
96) Butyl benzyl phthalate	12.760	149	153735	4.358	ug/ml	95
104) Benzo(a)anthracene	13.242	228	375112	4.852	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.254	252	129721	5.210	ug/ml	98
106) Chrysene	13.271	228	372742	5.045	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.395	149	244839	4.913	ug/ml#	94
108) Di-n-octylphthalate	14.065	149	390960	4.826	ug/ml#	75
109) Benzo(b)fluoranthene	14.324	252	357800	5.244	ug/ml#	96
110) Benzo(k)fluoranthene	14.348	252	341770	5.114	ug/ml#	95
111) Benzo(a)pyrene	14.630	252	317793	5.351	ug/ml#	95
113) Indeno(1,2,3-cd)pyrene	15.636	276	319360	5.635	ug/mL	95
114) Dibenzo(a,h)anthracene	15.660	278	309348	5.452	ug/ml	95
115) Benzo(ghi)perylene	15.848	276	299165	5.416	ug/ml	93

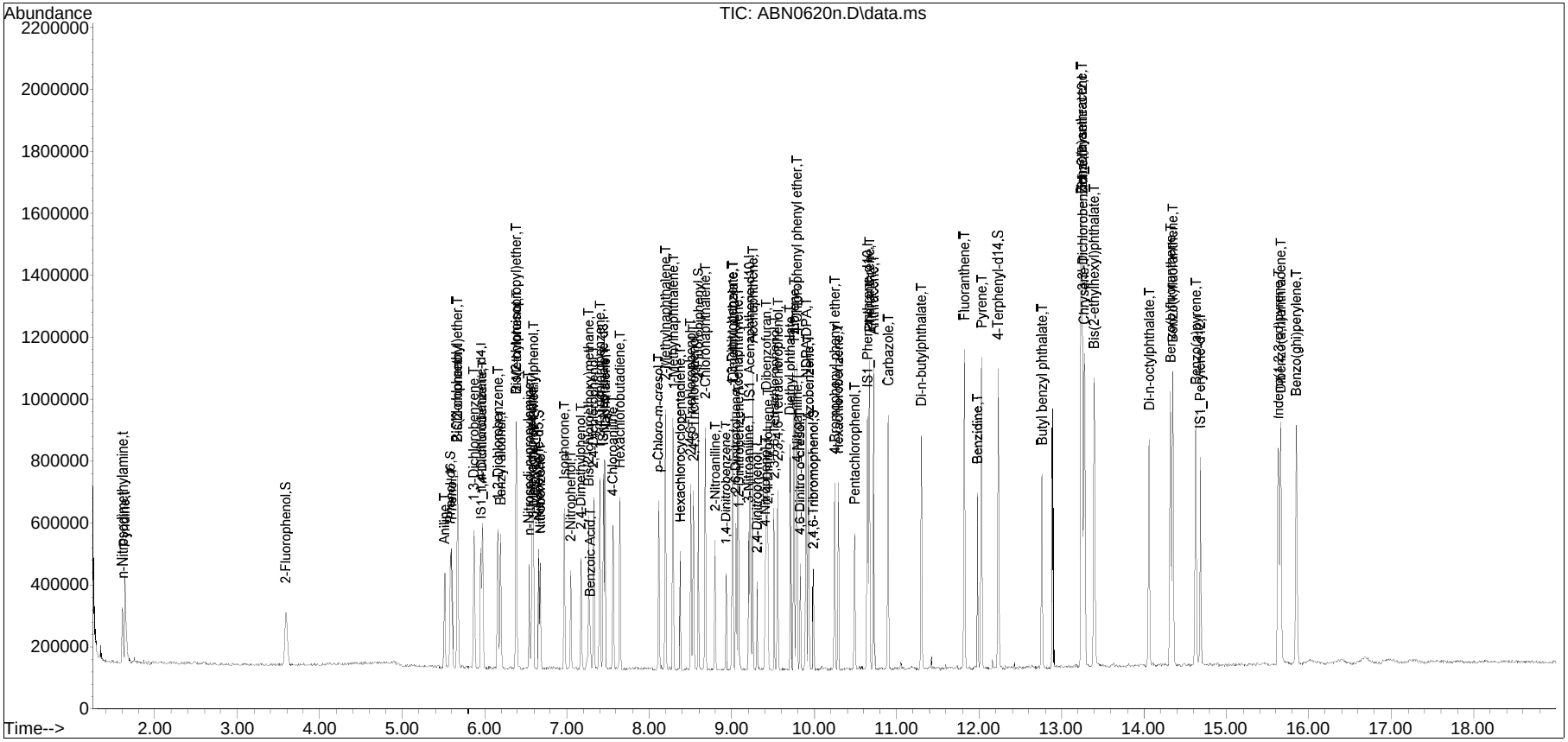
(#) = qualifier out of range (m) = manual integration (+) = signals summed

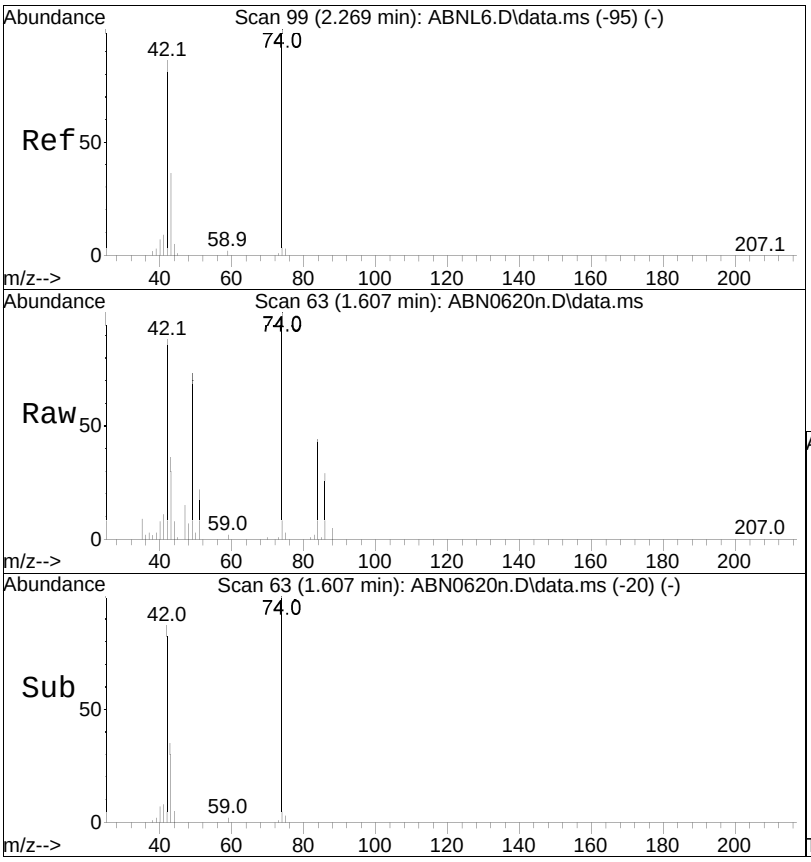
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : ABN0620n.D
Acq On : 21 Jun 2024 2:00 am
Operator : SV107:sz
Sample : wg1937320-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1937320,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 21 02:21:54 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:22:24 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

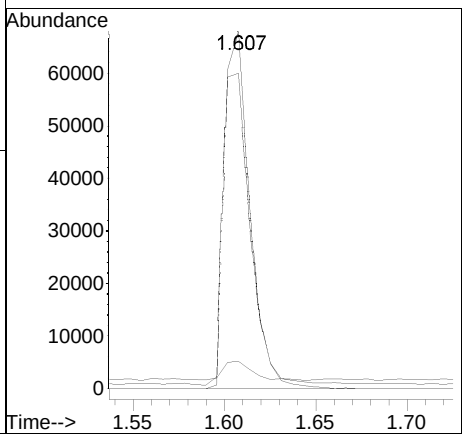


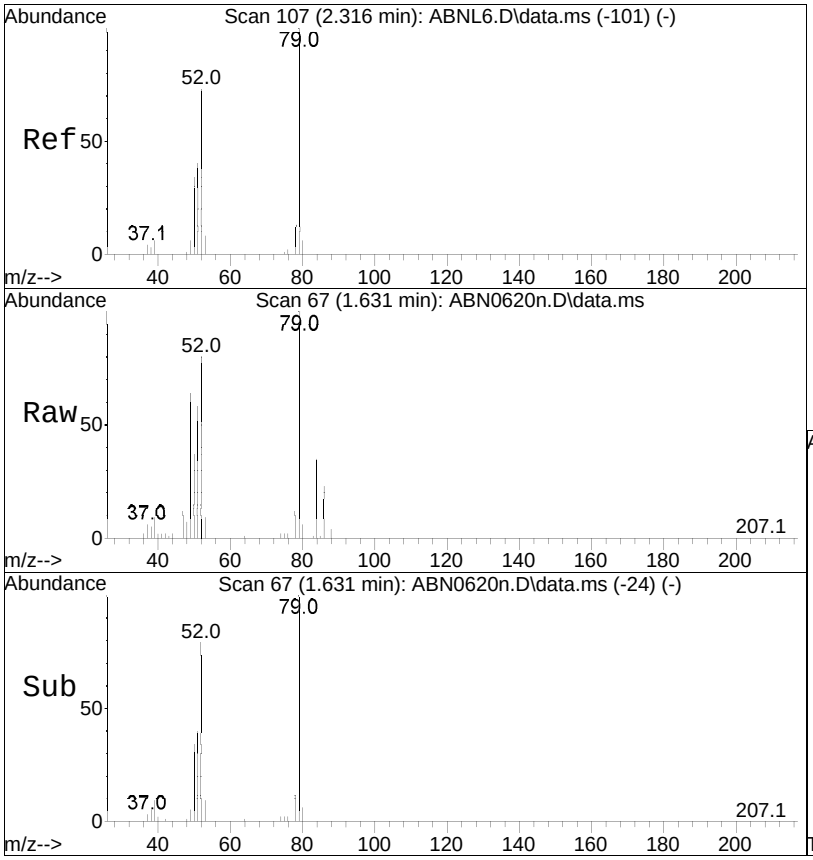


#2
n-Nitrosodimethylamine
Concen: 5.81 ug/ml
RT: 1.607 min Scan# 63
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 74 Resp: 66131

Ion	Ratio	Lower	Upper
74	100		
42	91.8	100.0	150.0#
44	5.9	6.7	10.1#

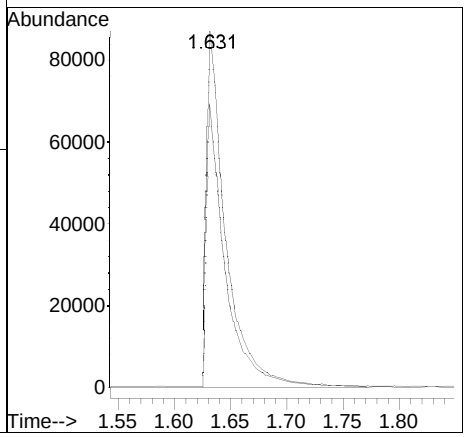


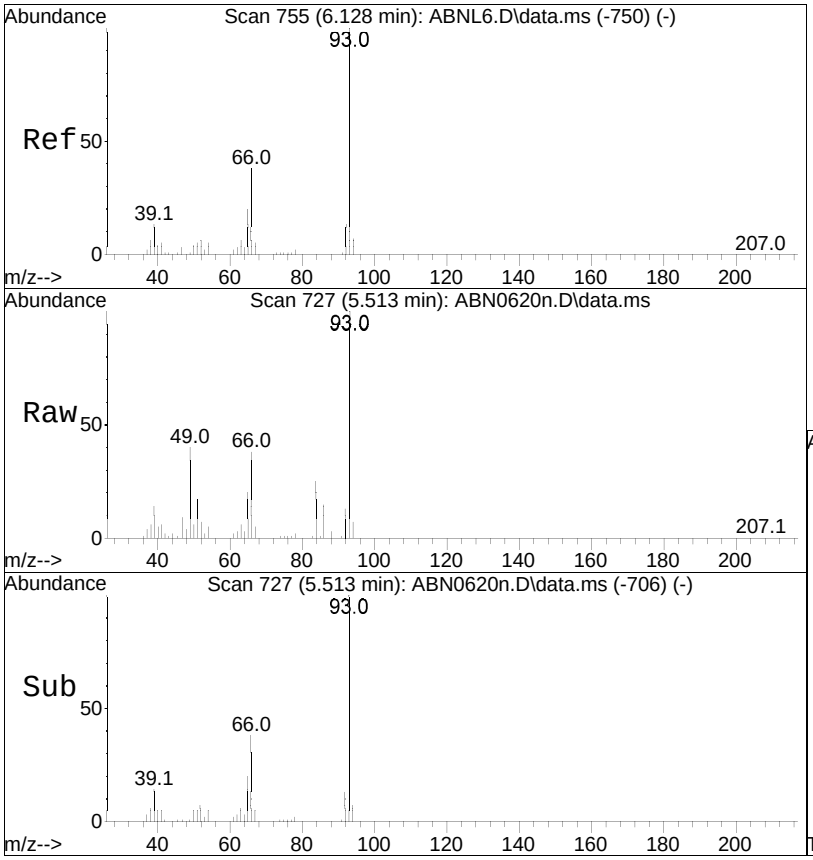


#3
Pyridine
Concen: 5.34 ug/ml
RT: 1.631 min Scan# 67
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 79 Resp: 103603

Ion	Ratio	Lower	Upper
79	100		
52	77.0	93.1	139.7#

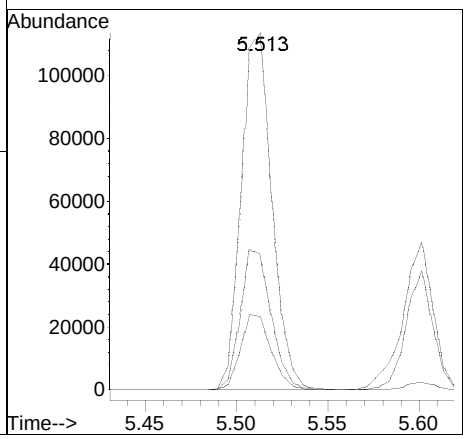


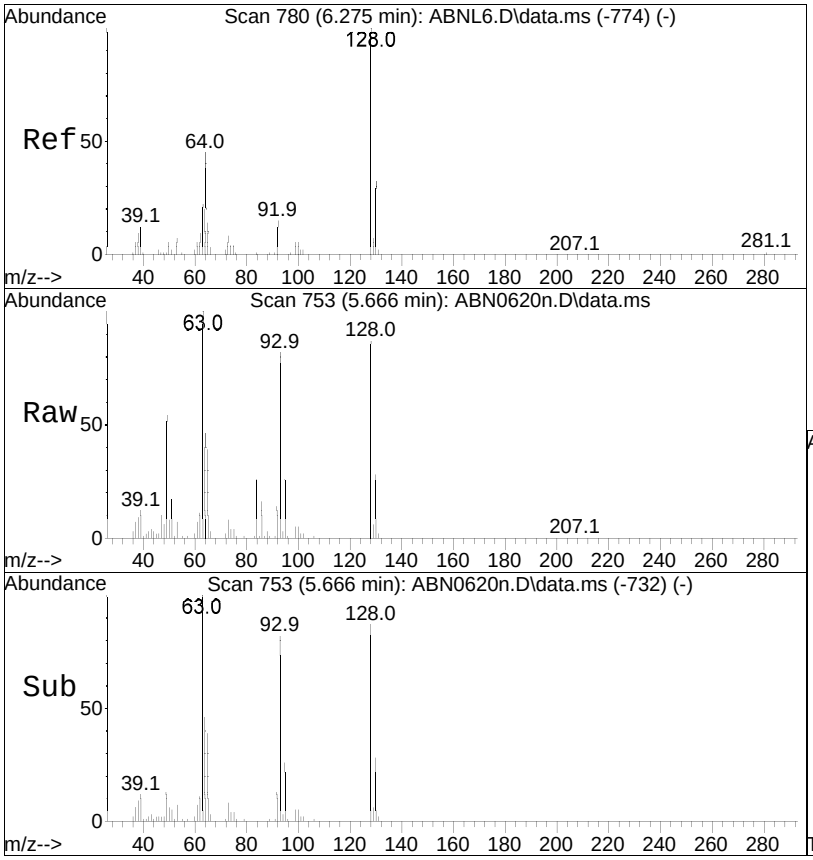


#5
Aniline
Concen: 4.78 ug/ml
RT: 5.513 min Scan# 727
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 93 Resp: 132342

Ion	Ratio	Lower	Upper
93	100		
66	39.4	32.6	49.0
65	21.0	17.6	26.4

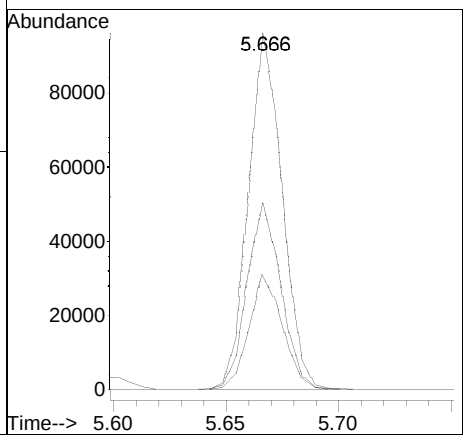


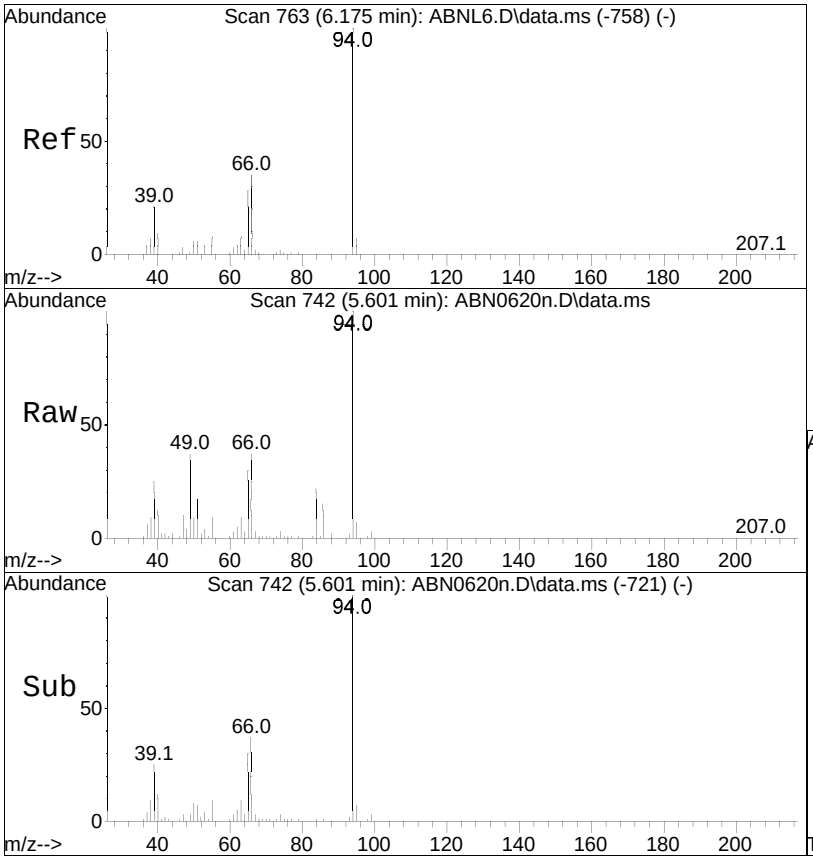


#6
2-Chlorophenol
Concen: 5.25 ug/ml
RT: 5.666 min Scan# 753
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:128 Resp: 100061

Ion	Ratio	Lower	Upper
128	100		
64	52.7	45.1	67.7
130	32.1	26.2	39.4

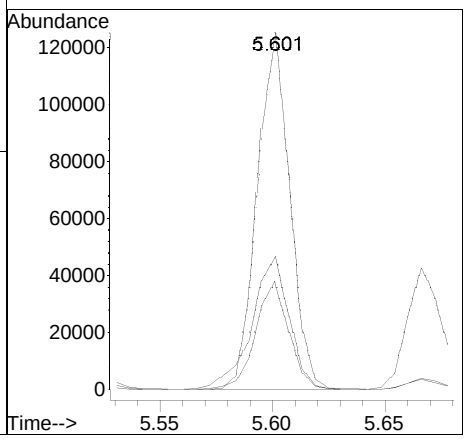


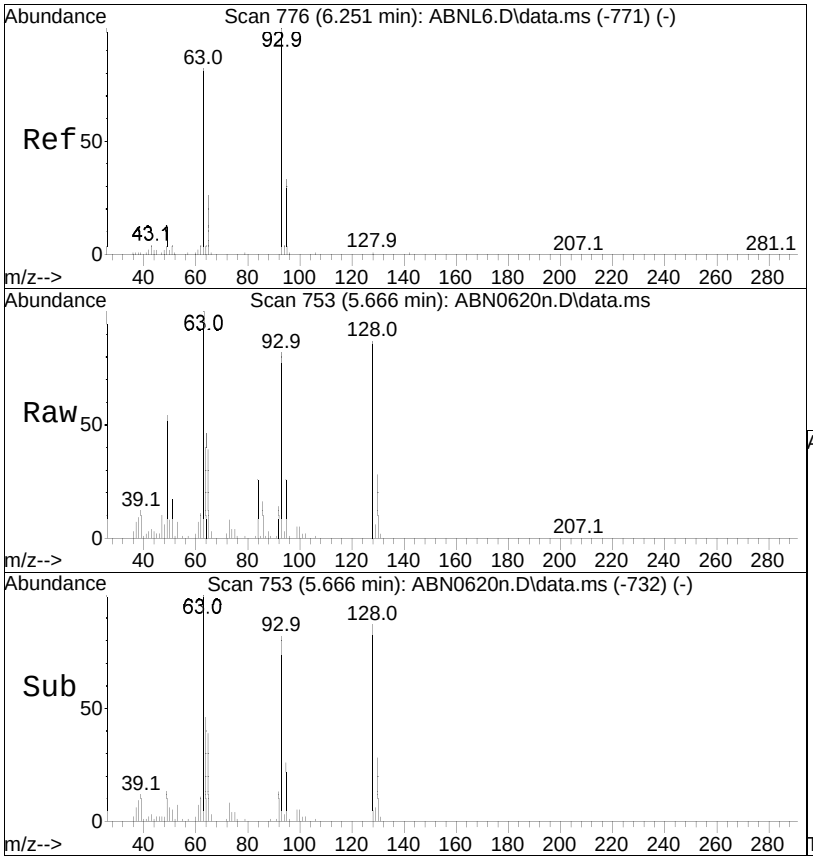


#8
Phenol
Concen: 5.39 ug/ml
RT: 5.601 min Scan# 742
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 94 Resp: 125382

Ion	Ratio	Lower	Upper
94	100		
65	31.1	26.0	39.0
66	43.2	33.8	50.8

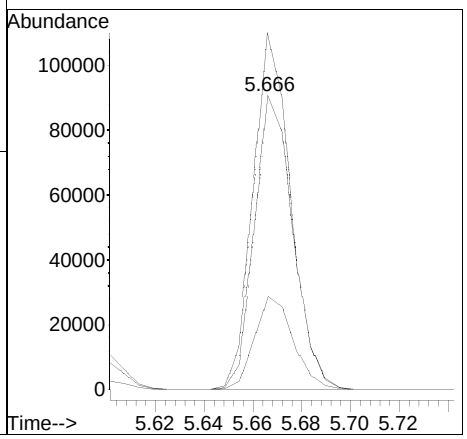


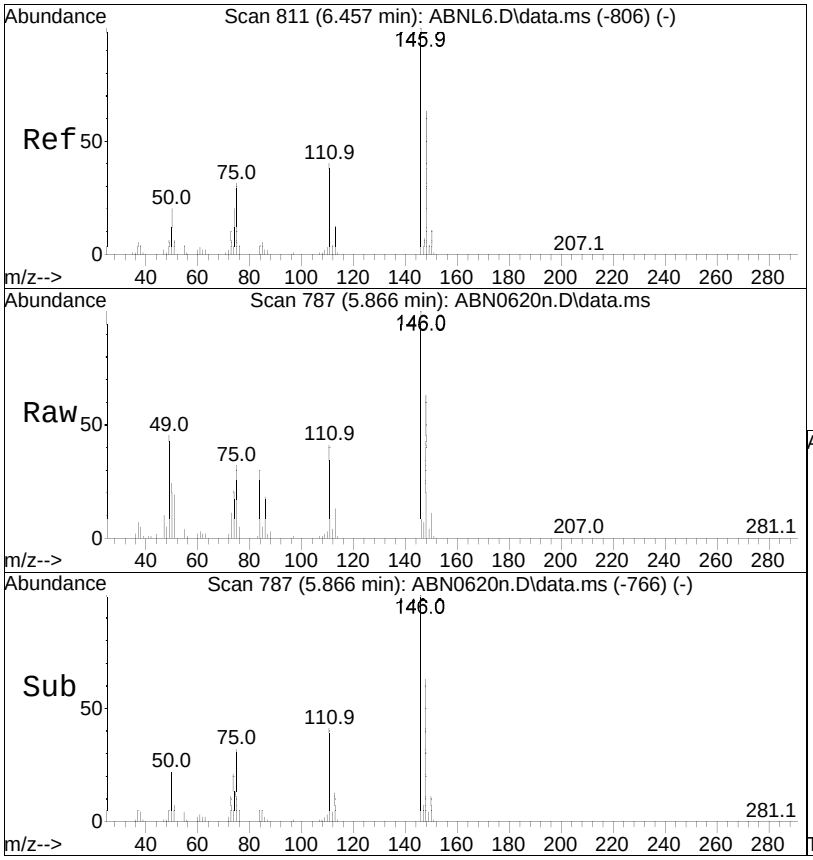


#9
Bis(2-chloroethyl)ether
Concen: 5.17 ug/ml
RT: 5.666 min Scan# 753
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 93 Resp: 99206

Ion	Ratio	Lower	Upper
93	100		
63	118.2	74.6	111.8#
95	31.9	25.9	38.9

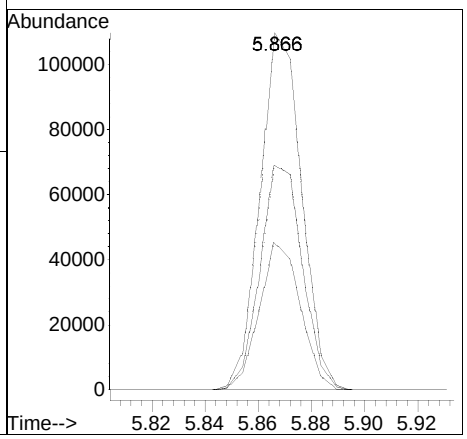


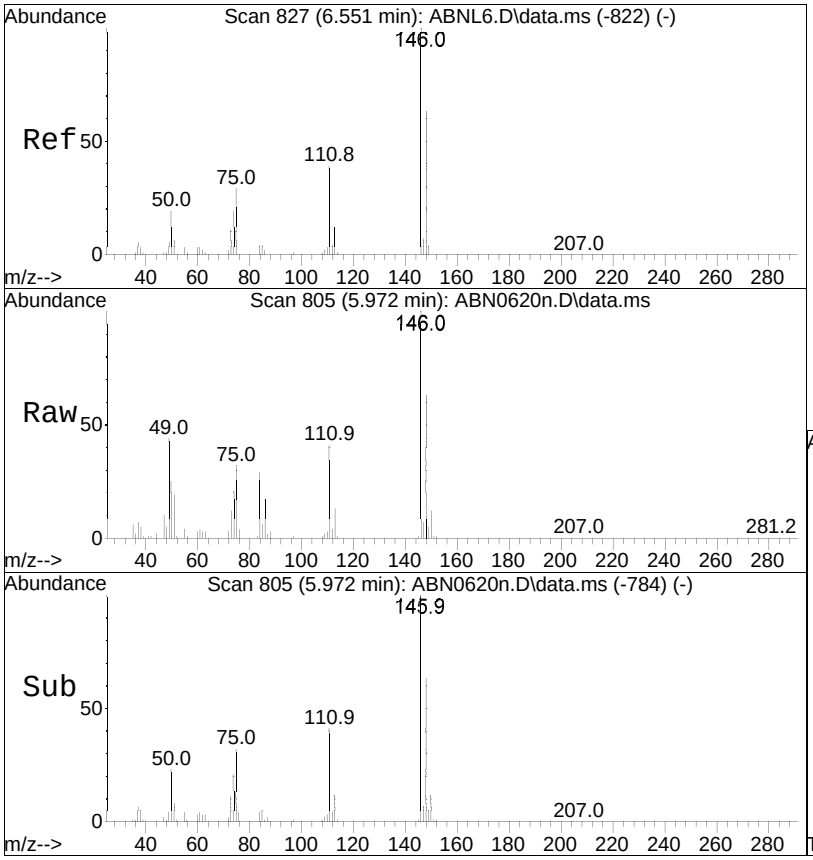


#10
1,3-Dichlorobenzene
Concen: 5.07 ug/ml
RT: 5.866 min Scan# 787
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:146 Resp: 118981

Ion	Ratio	Lower	Upper
146	100		
111	41.1	34.3	51.5
148	64.1	50.8	76.2

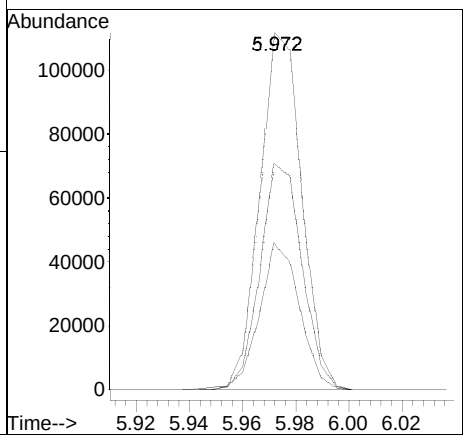


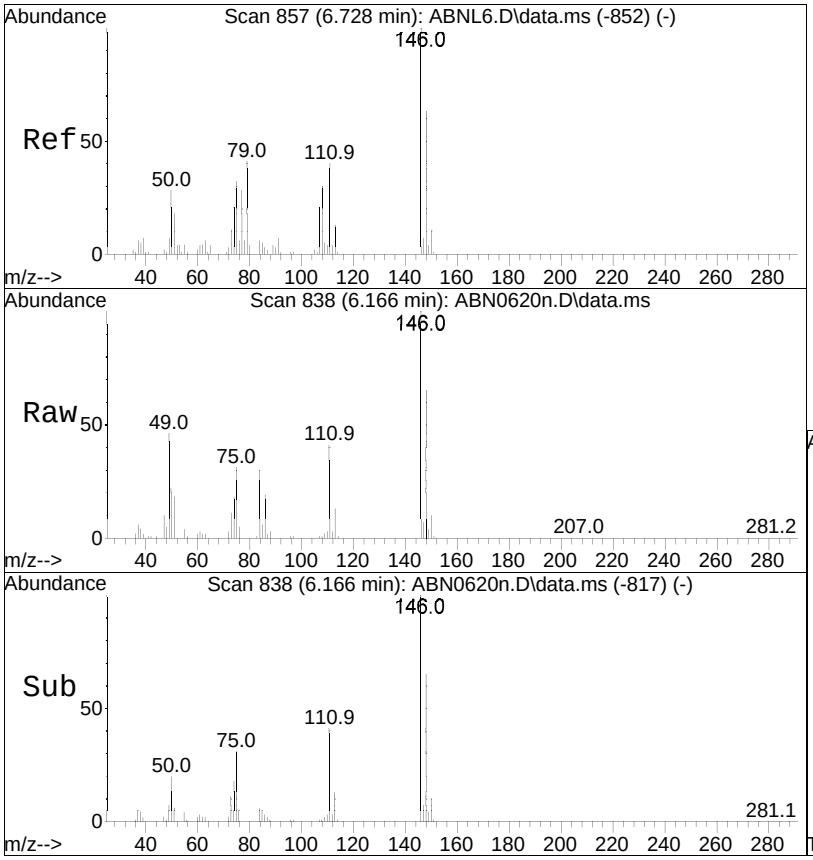


#11
1,4-Dichlorobenzene
Concen: 5.10 ug/ml
RT: 5.972 min Scan# 805
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:146 Resp: 121847

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.7	76.1
111	39.8	33.4	50.0

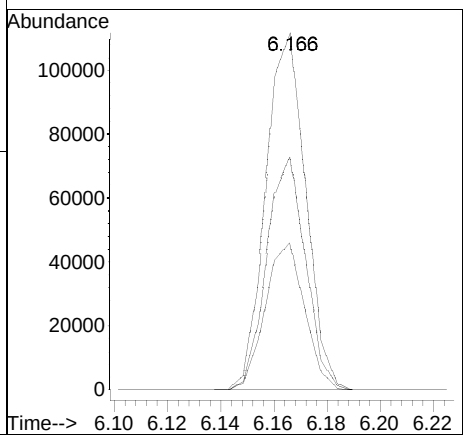


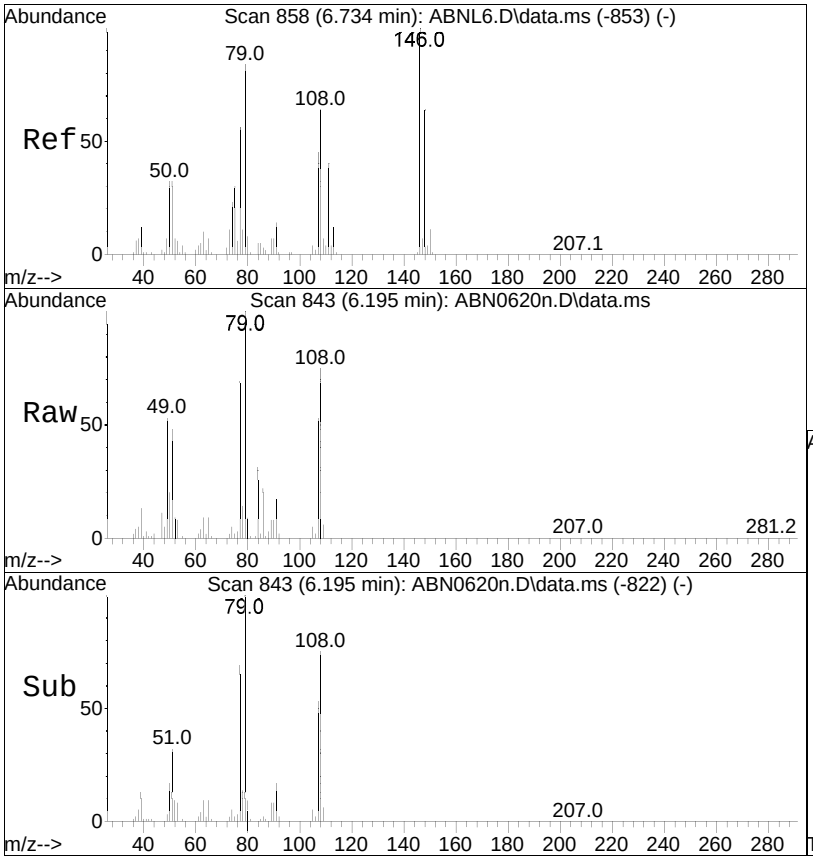


#12
1,2-Dichlorobenzene
Concen: 5.03 ug/ml
RT: 6.166 min Scan# 838
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:146 Resp: 116092

Ion	Ratio	Lower	Upper
146	100		
111	40.9	34.6	52.0
148	63.6	50.2	75.4

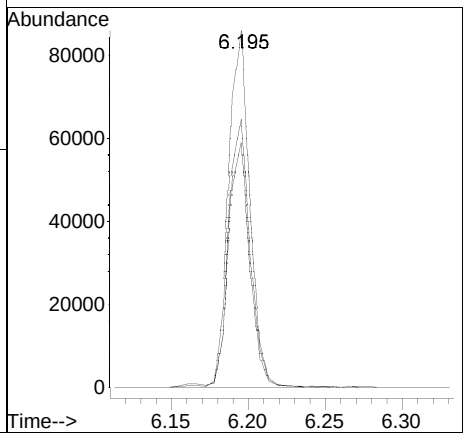


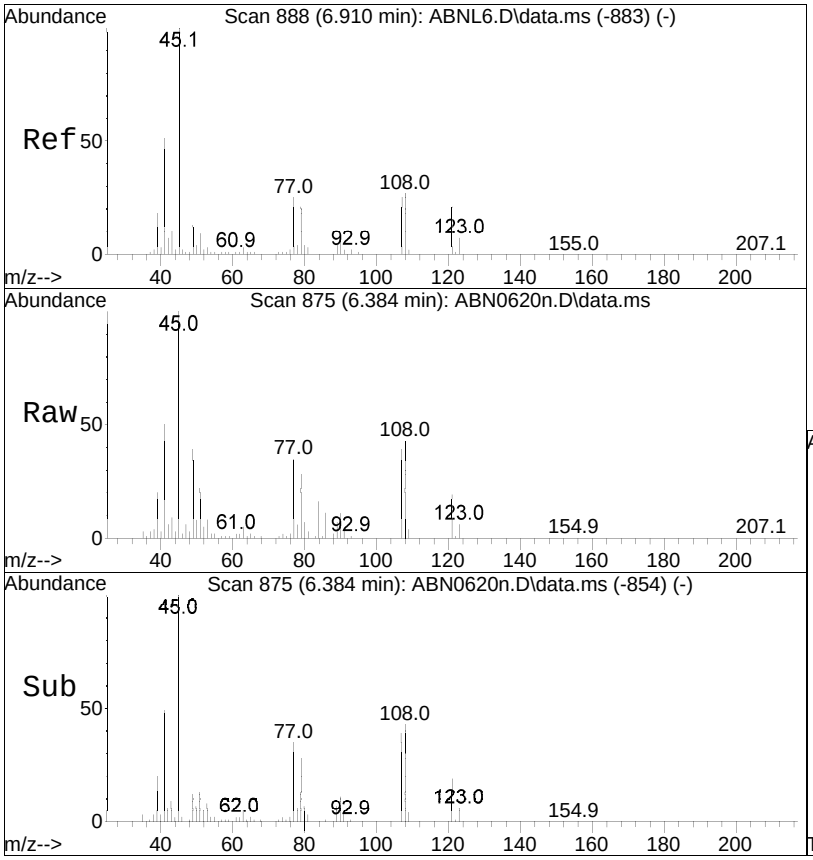


#13
Benzyl alcohol
Concen: 5.08 ug/ml
RT: 6.195 min Scan# 843
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 79 Resp: 82238

Ion	Ratio	Lower	Upper
79	100		
77	69.5	54.9	82.3
108	76.2	63.1	94.7

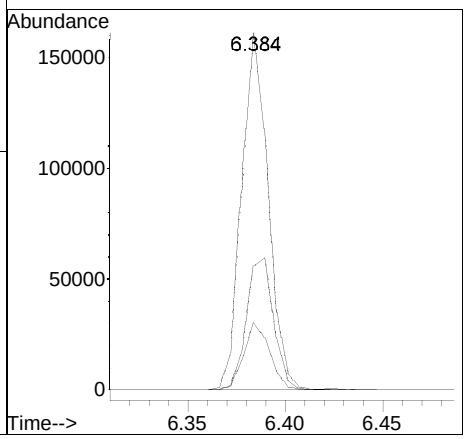


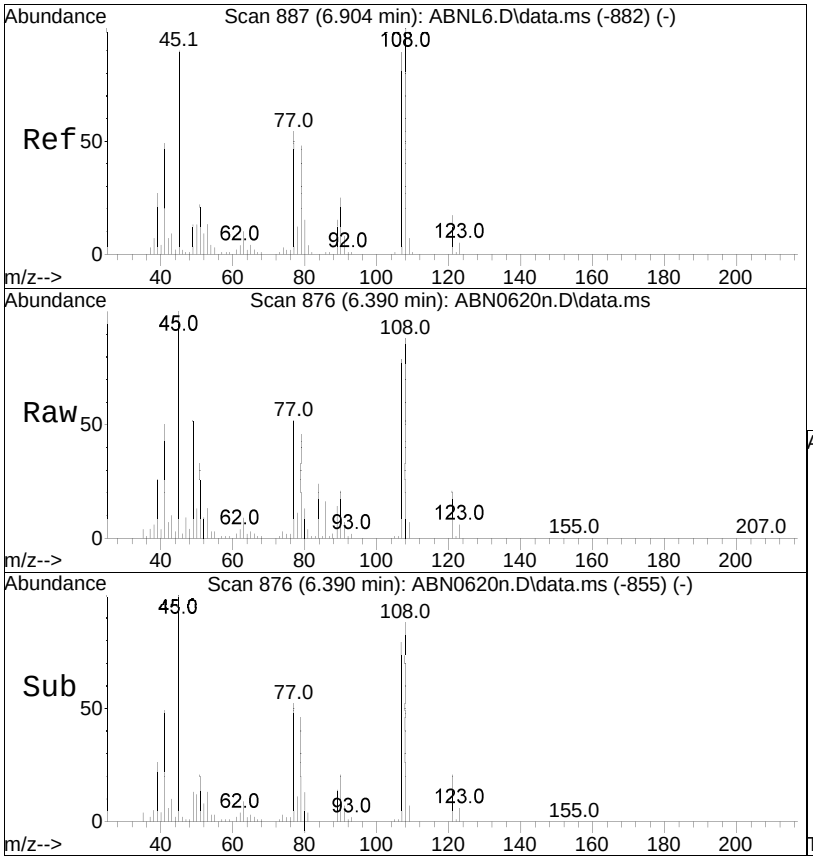


#14
Bis(2-chloroisopropyl)ether
Concen: 5.79 ug/ml
RT: 6.384 min Scan# 875
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 45 Resp: 151927

Ion	Ratio	Lower	Upper
45	100		
121	18.7	9.8	14.6#
77	38.3	6.1	9.1#

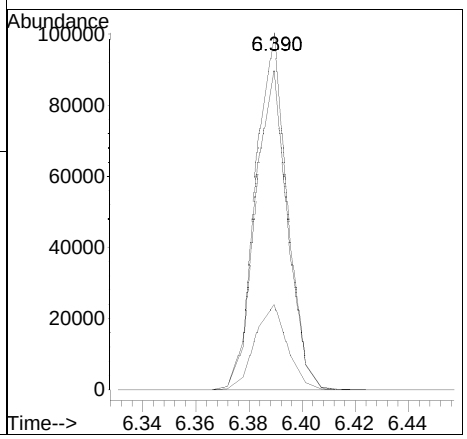


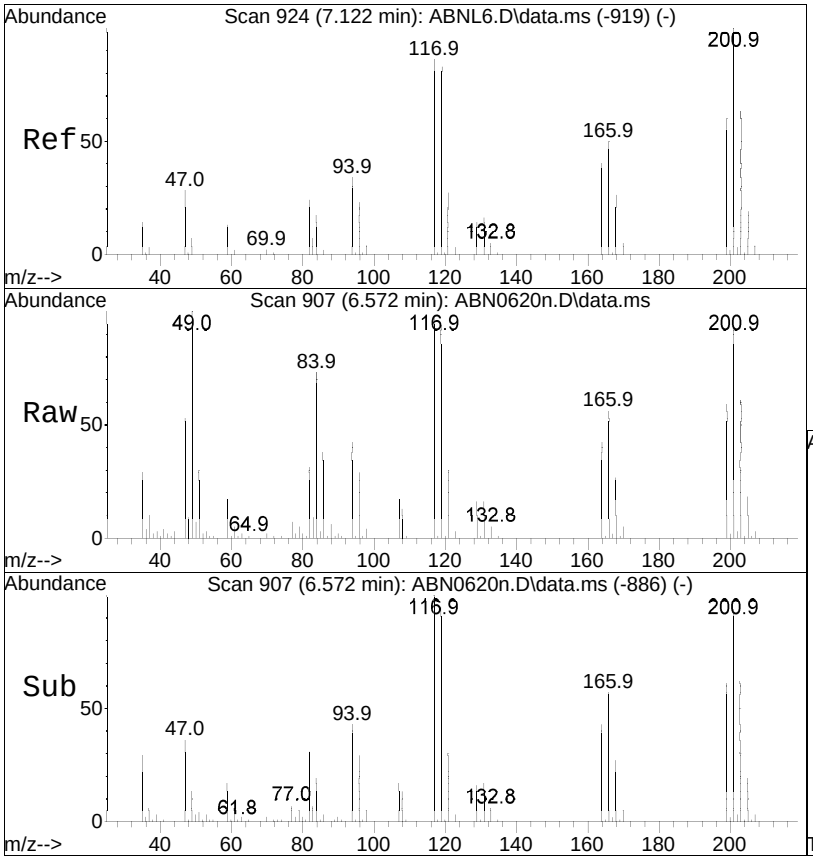


#15
2-Methylphenol
Concen: 4.98 ug/ml
RT: 6.390 min Scan# 876
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:108 Resp: 83017

Ion	Ratio	Lower	Upper
108	100		
107	90.5	70.7	106.1
90	24.6	18.7	28.1

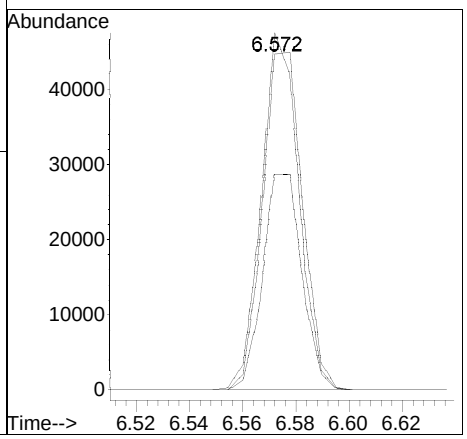


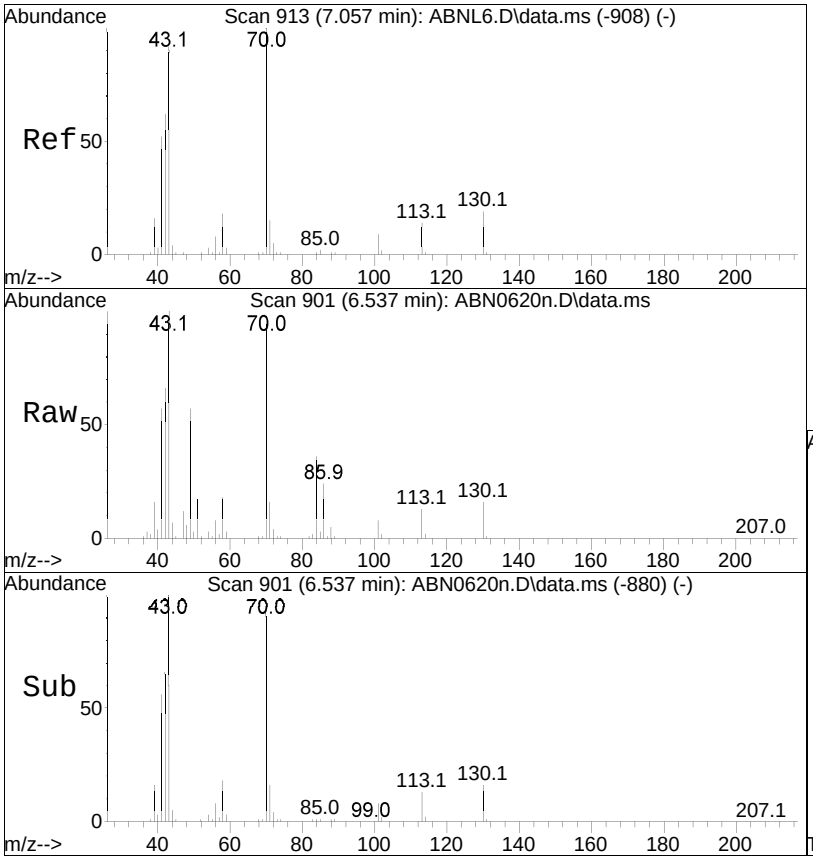


#16
Hexachloroethane
Concen: 5.24 ug/ml
RT: 6.572 min Scan# 907
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:117 Resp: 46205

Ion	Ratio	Lower	Upper
117	100		
201	101.1	58.6	87.8#
199	63.3	36.9	55.3#

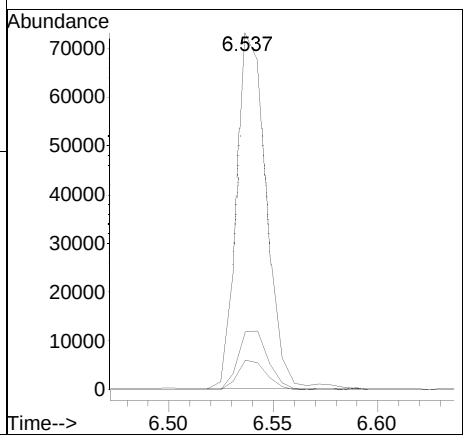


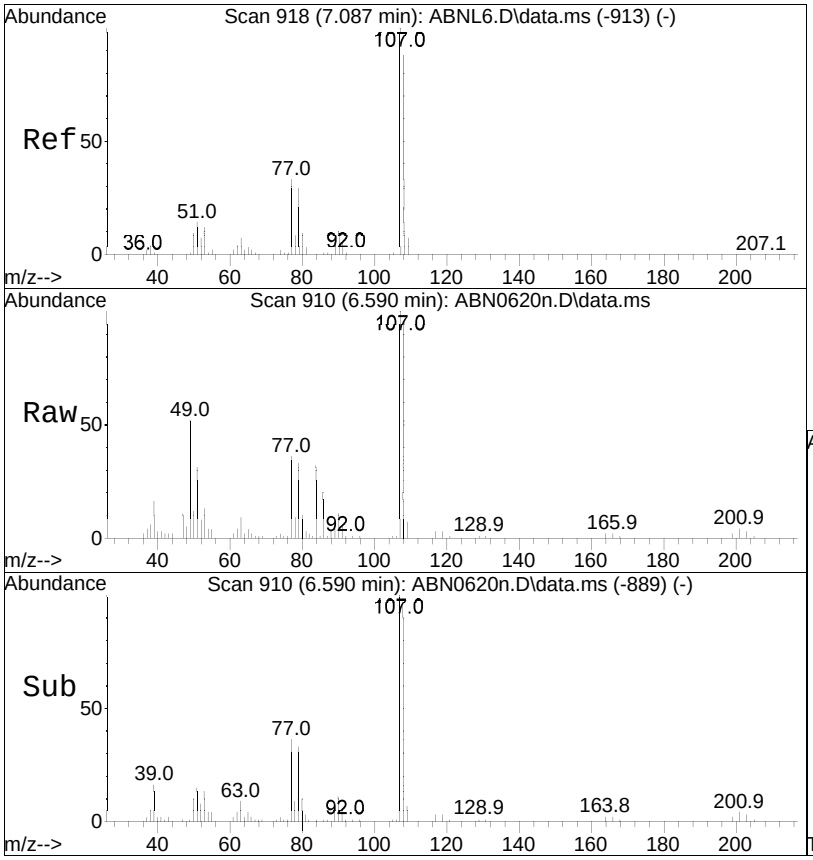


#17
n-Nitrosodi-n-propylamine
Concen: 5.06 ug/ml
RT: 6.537 min Scan# 901
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 70 Resp: 71976

Ion	Ratio	Lower	Upper
70	100		
130	16.6	18.2	27.4#
101	8.0	7.8	11.8

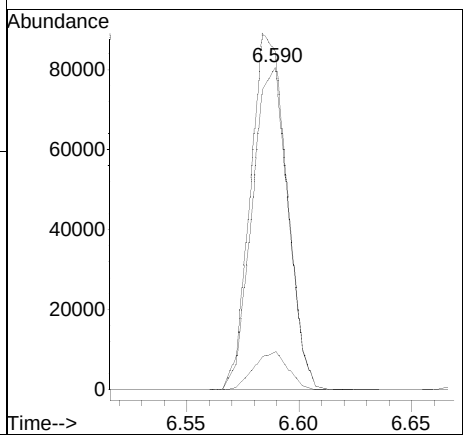


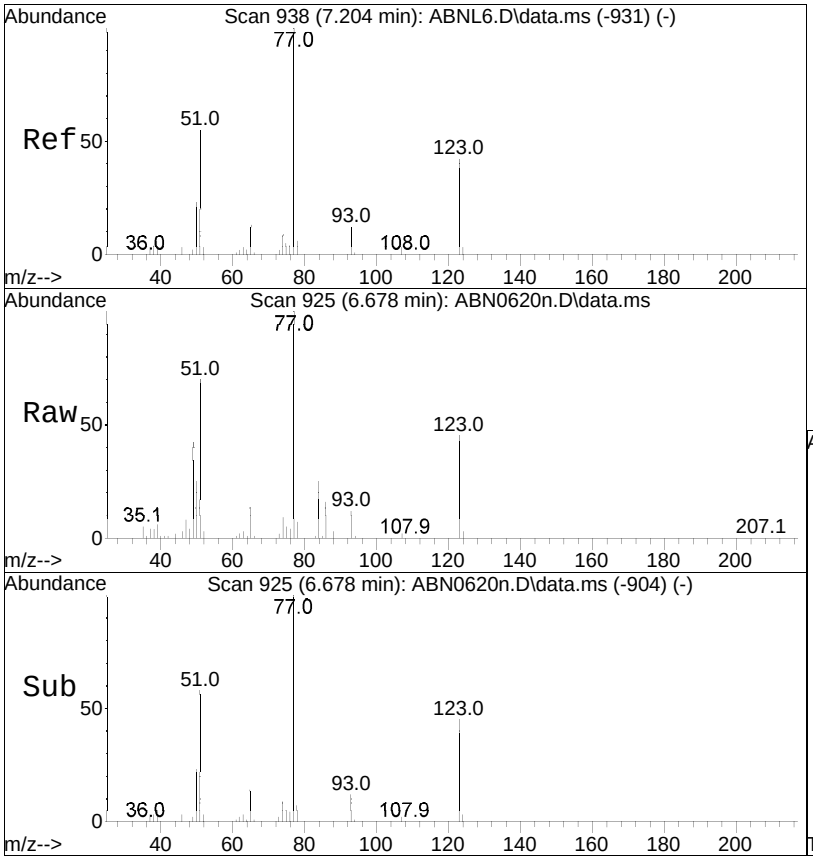


#18
3-Methylphenol/4-Methylphenol
Concen: 5.09 ug/ml
RT: 6.590 min Scan# 910
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:108 Resp: 89373

Ion	Ratio	Lower	Upper
108	100		
107	112.2	88.6	132.8
90	11.5	8.8	13.2

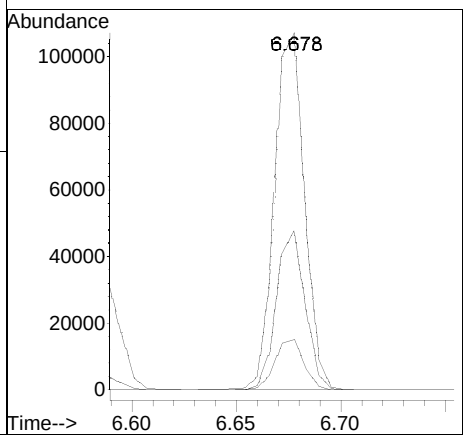


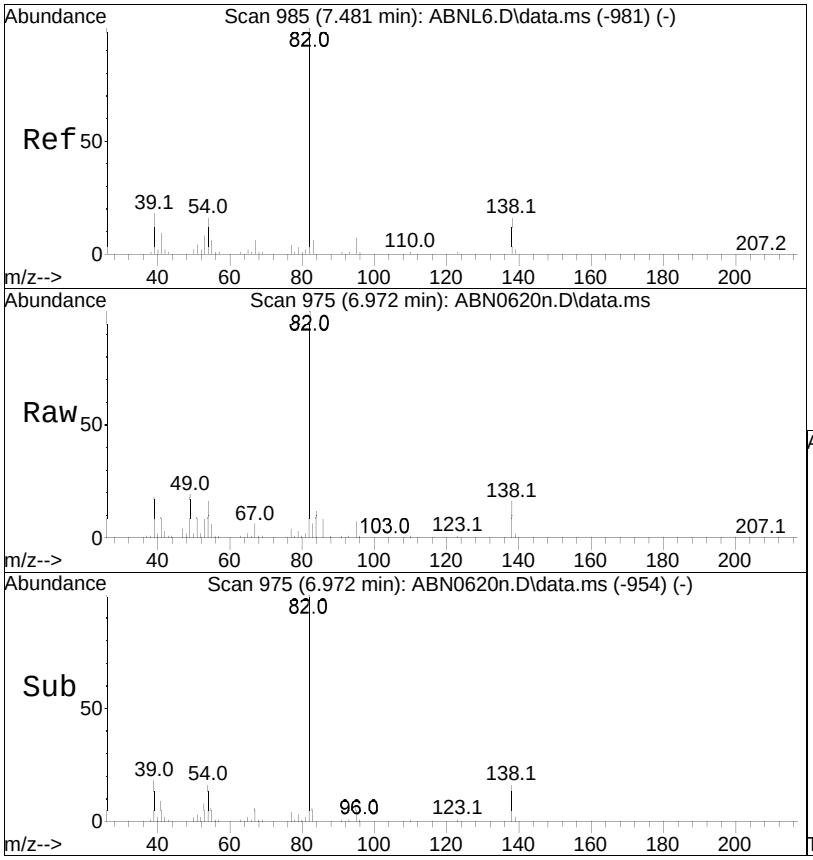


#20
Nitrobenzene
Concen: 5.49 ug/ml
RT: 6.678 min Scan# 925
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 77 Resp: 106210

Ion	Ratio	Lower	Upper
77	100		
123	42.9	36.3	54.5
65	13.8	11.6	17.4

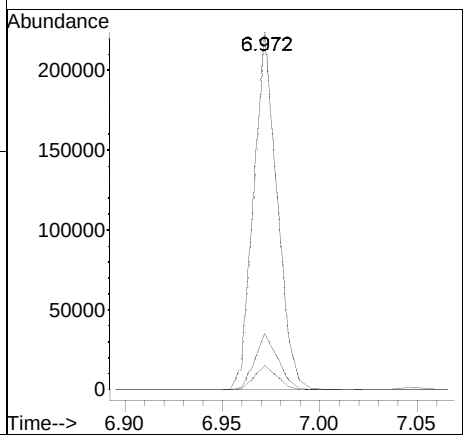


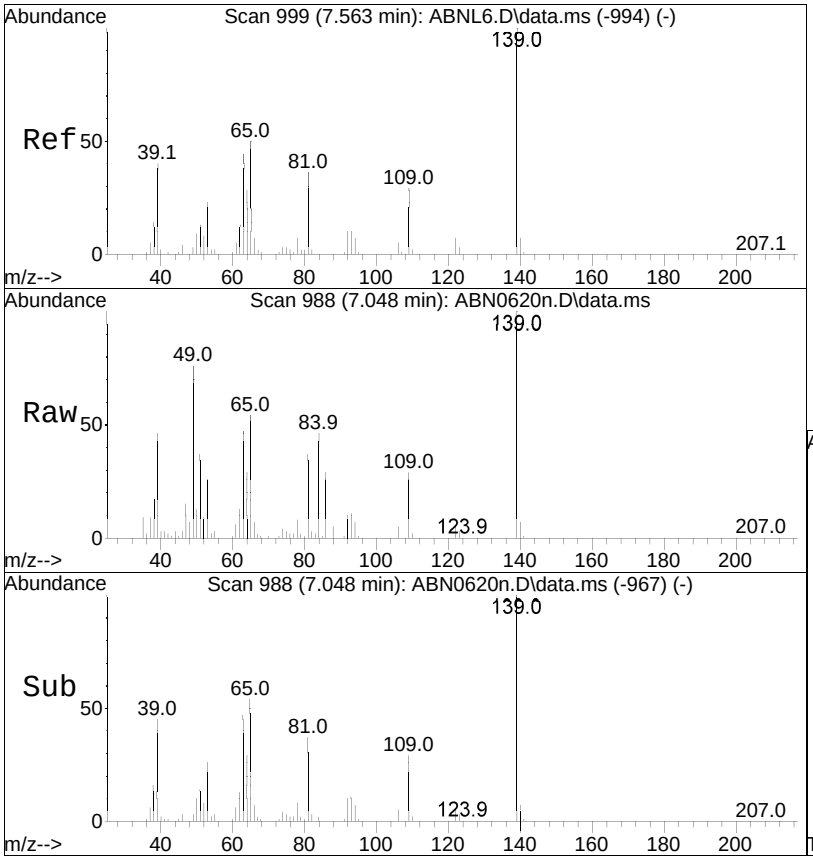


#21
Isophorone
Concen: 4.93 ug/ml
RT: 6.972 min Scan# 975
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 82 Resp: 184410

Ion	Ratio	Lower	Upper
82	100		
138	15.8	14.7	22.1
95	6.8	5.2	7.8

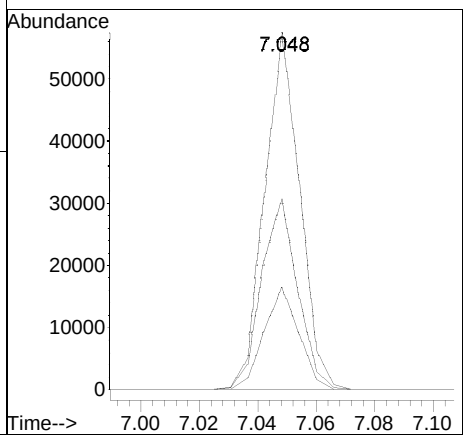


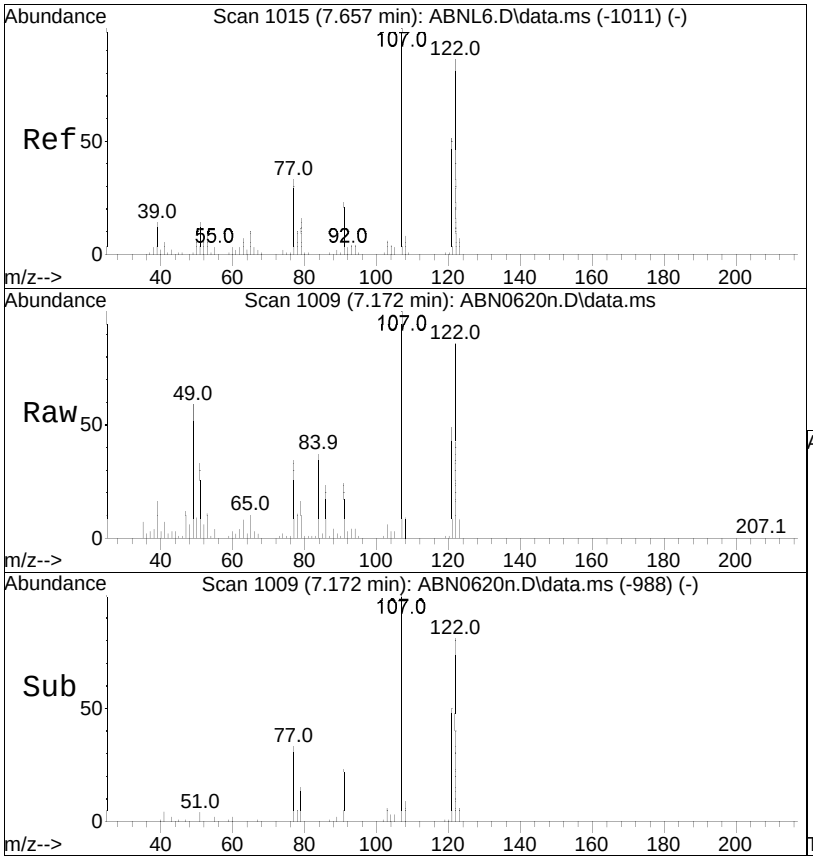


#22
2-Nitrophenol
Concen: 5.52 ug/ml
RT: 7.048 min Scan# 988
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:139 Resp: 47639

Ion	Ratio	Lower	Upper
139	100		
109	28.5	19.4	29.0
65	54.9	46.1	69.1

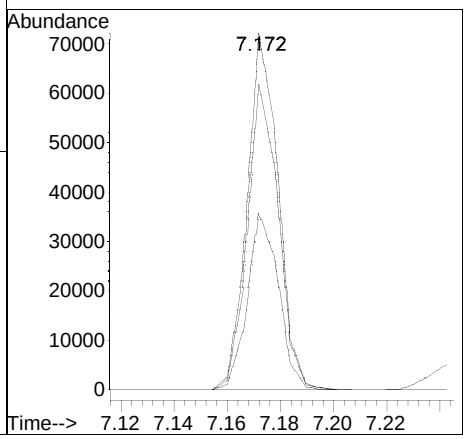


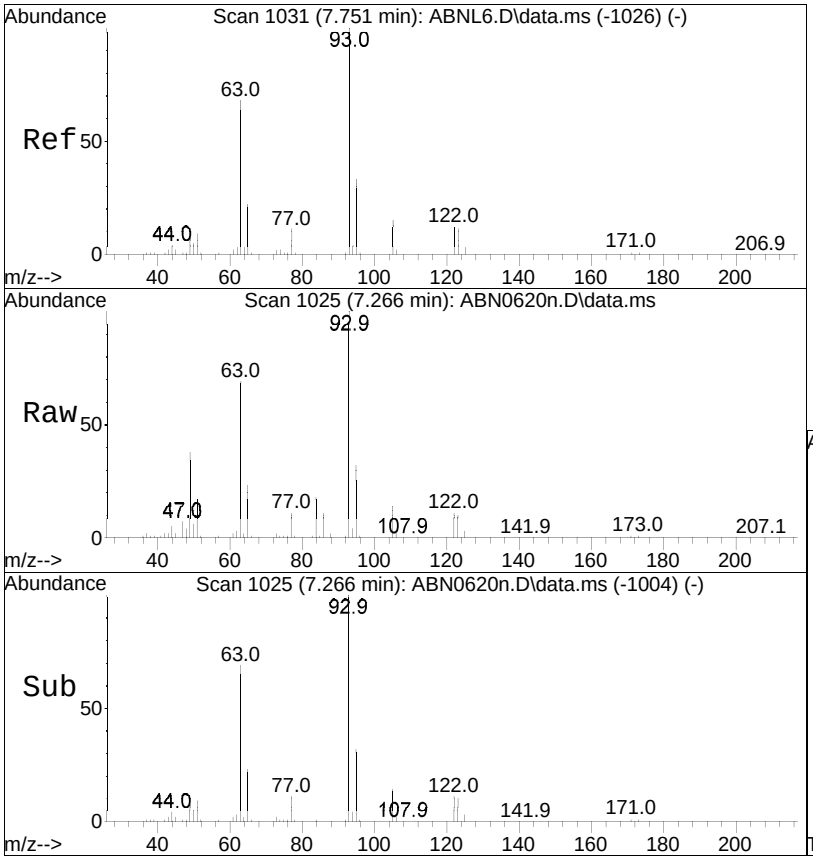


#23
2,4-Dimethylphenol
Concen: 3.30 ug/ml
RT: 7.172 min Scan# 1009
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:107 Resp: 58152

Ion	Ratio	Lower	Upper
107	100		
121	49.8	40.0	60.0
122	85.7	70.2	105.4

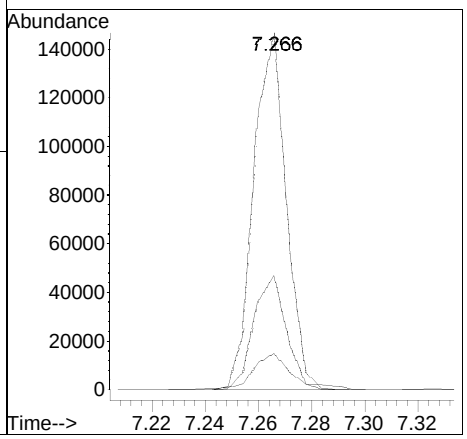


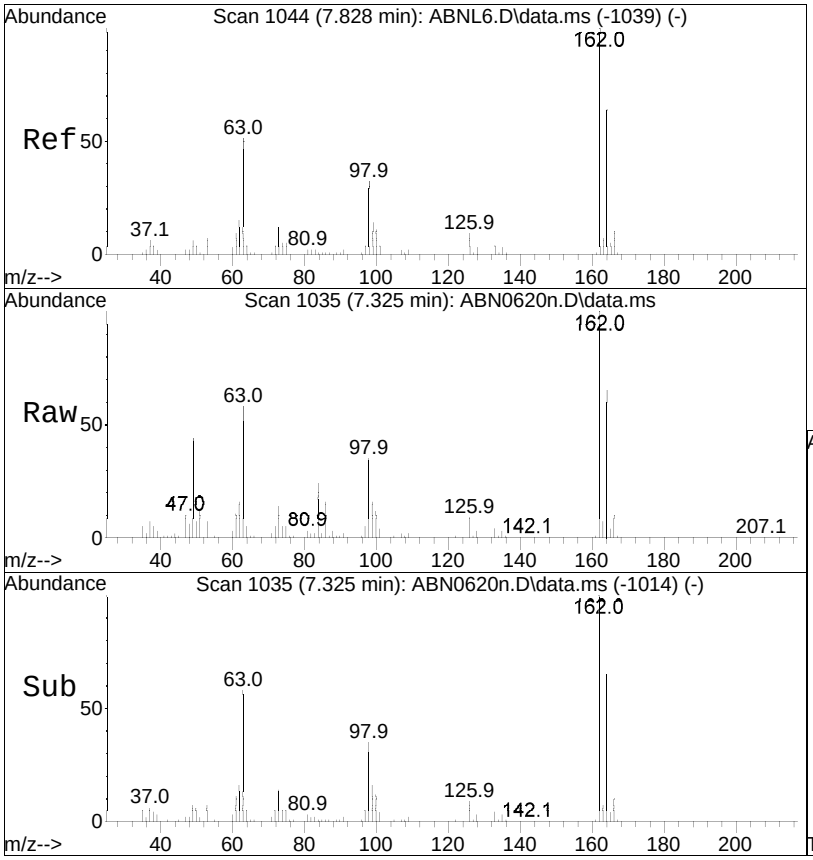


#24
Bis(2-chloroethoxy)methane
Concen: 5.04 ug/ml
RT: 7.266 min Scan# 1025
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 93 Resp: 122890

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	12.5	10.1	15.1

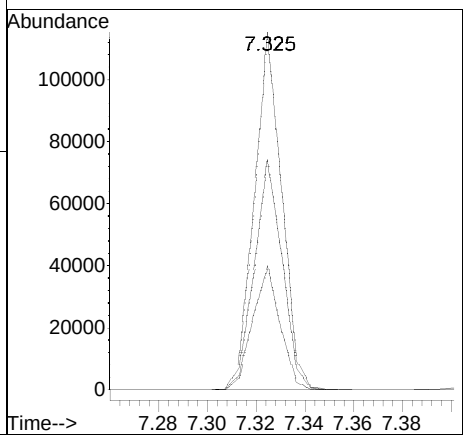


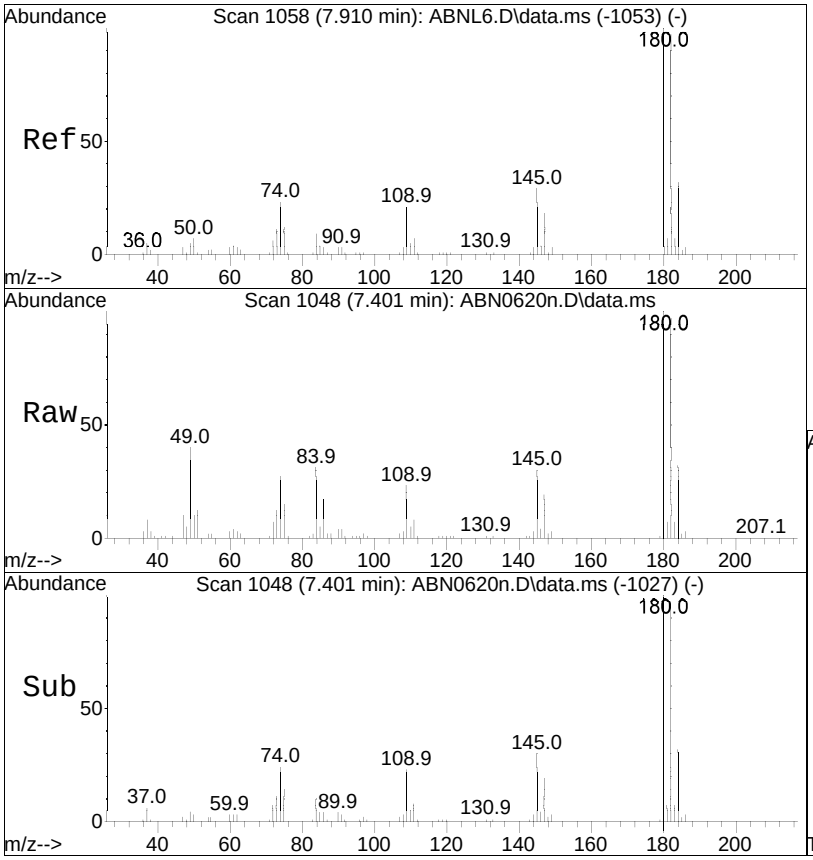


#25
2,4-Dichlorophenol
Concen: 5.03 ug/ml
RT: 7.325 min Scan# 1035
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:162 Resp: 89011

Ion	Ratio	Lower	Upper
162	100		
164	65.4	51.0	76.4
98	34.9	32.2	48.2

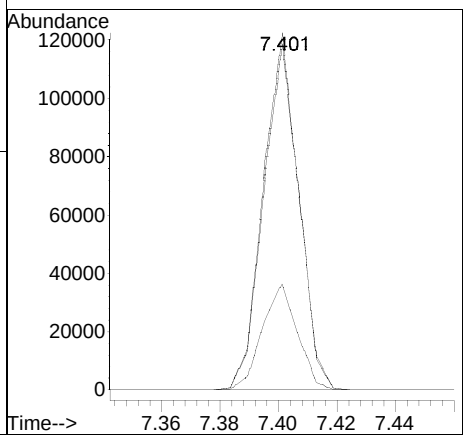


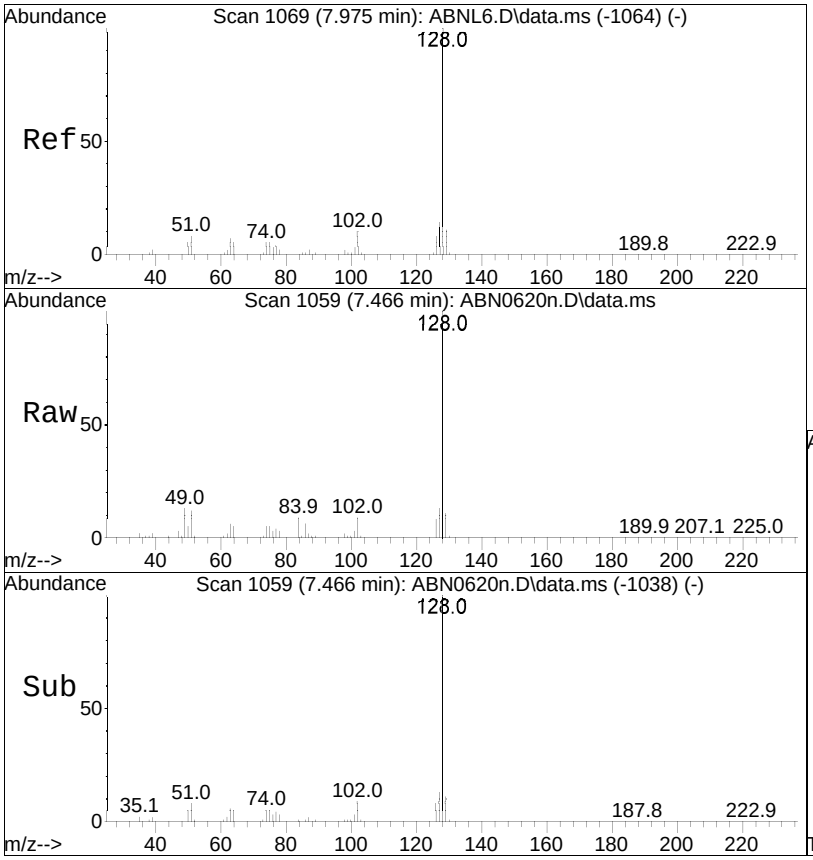


#26
1,2,4-Trichlorobenzene
Concen: 4.81 ug/ml
RT: 7.401 min Scan# 1048
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:180 Resp: 102517

Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.0	114.0
145	29.5	25.7	38.5

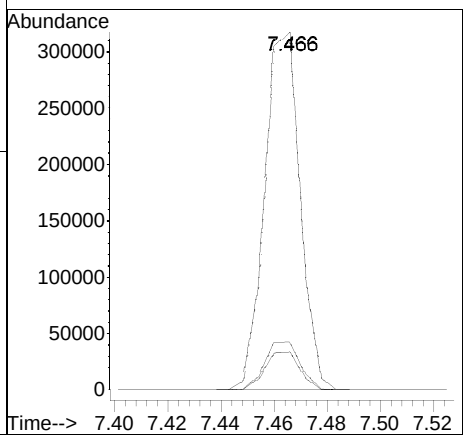


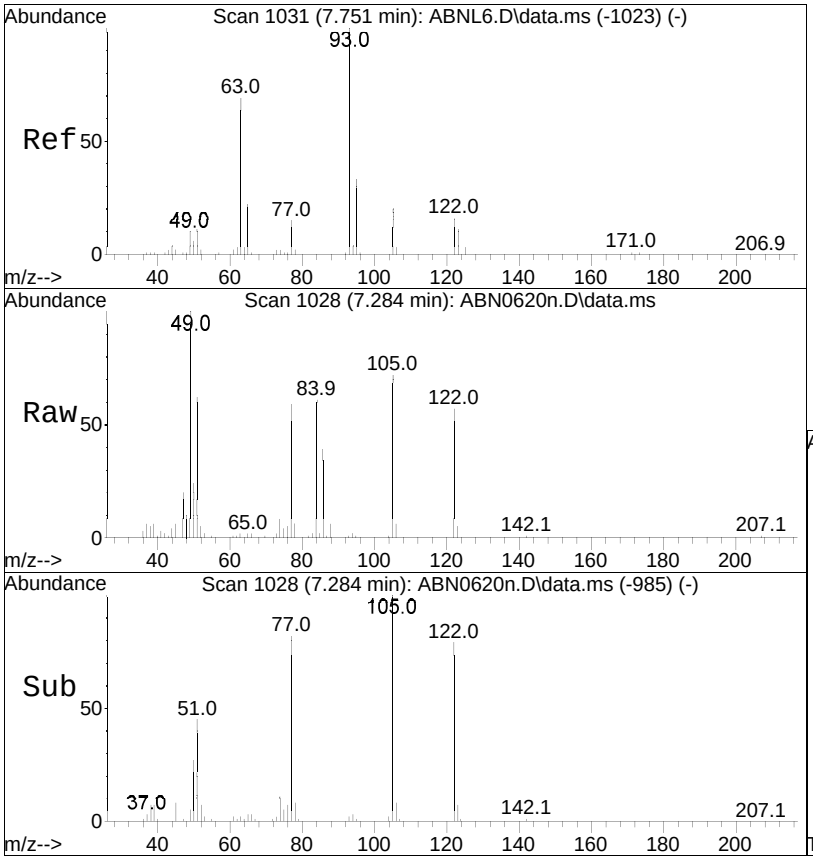


#35
Naphthalene
Concen: 4.98 ug/ml
RT: 7.466 min Scan# 1059
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:128 Resp: 292100

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.6	10.3	15.5

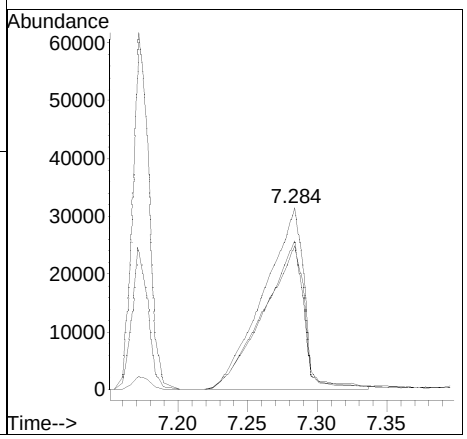


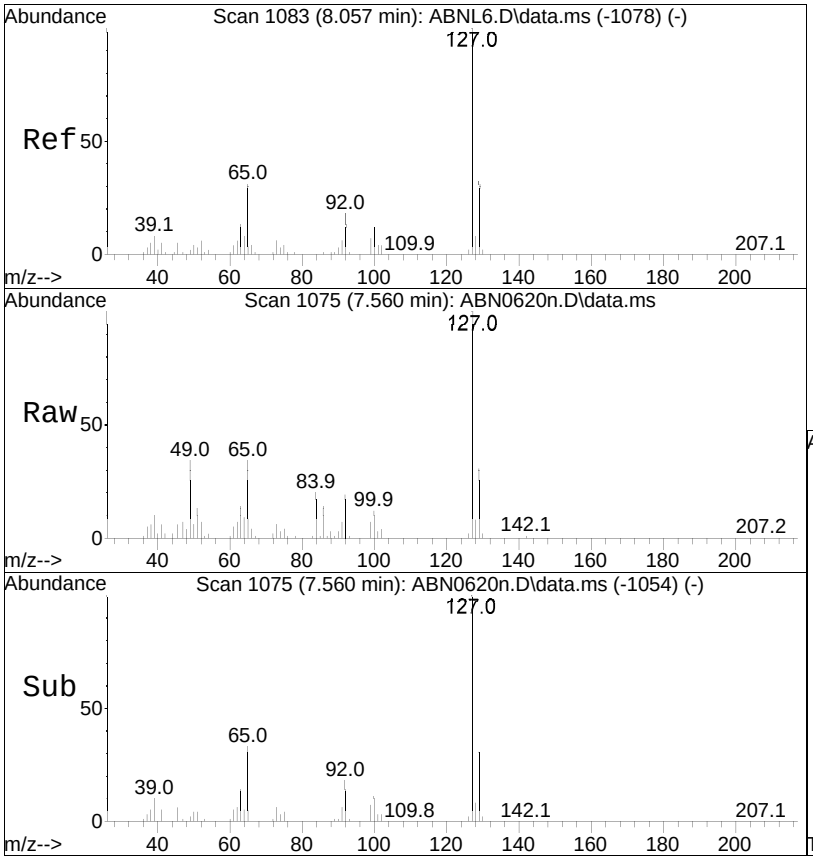


#36
Benzoic Acid
Concen: 5.84 ug/ml
RT: 7.284 min Scan# 1028
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:105 Resp: 64119

Ion	Ratio	Lower	Upper
105	100		
122	80.8	59.9	89.9
77	82.8	60.1	90.1

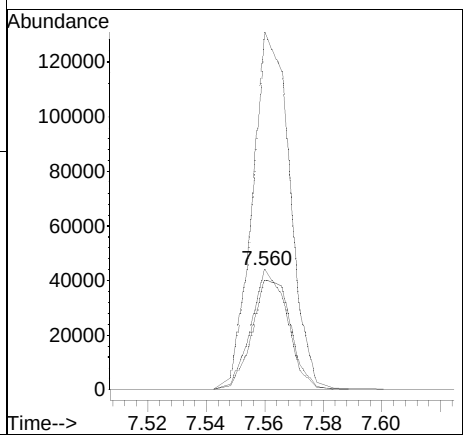


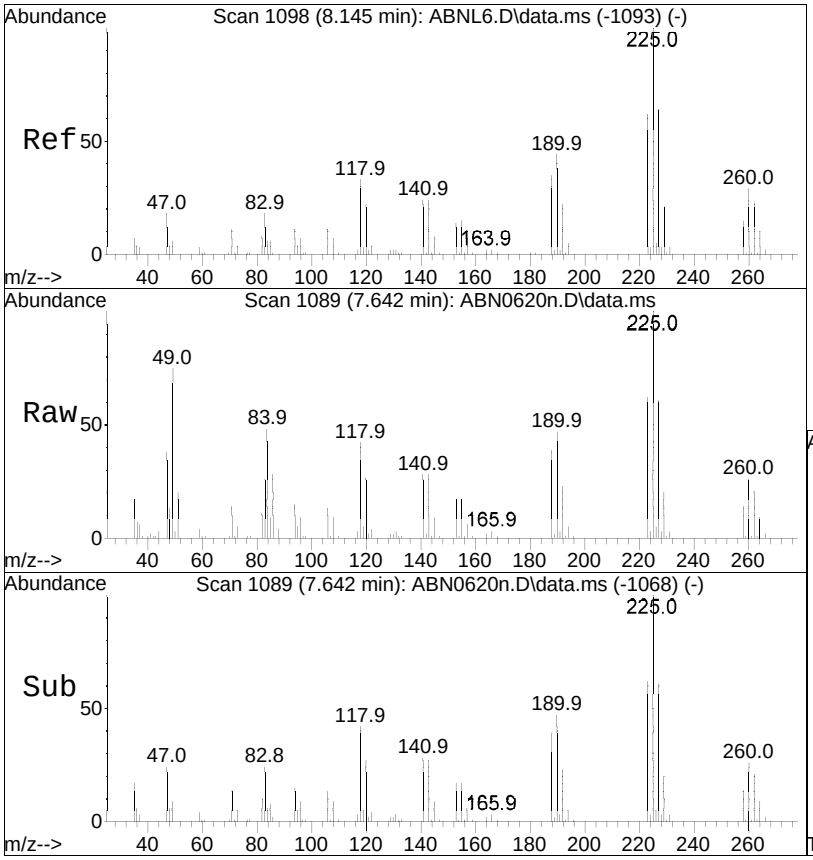


#37
4-Chloroaniline
Concen: 5.07 ug/ml
RT: 7.560 min Scan# 1075
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 65 Resp: 37574

Ion	Ratio	Lower	Upper
65	100		
127	308.5	237.6	356.4
129	97.4	76.3	114.5

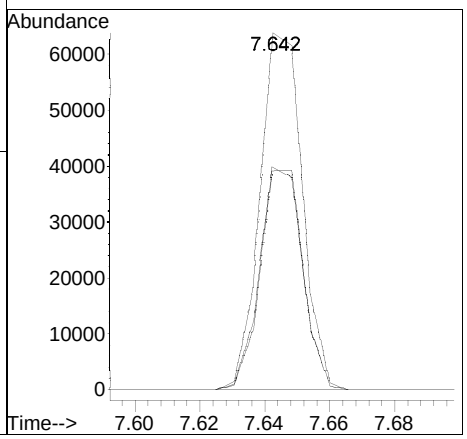


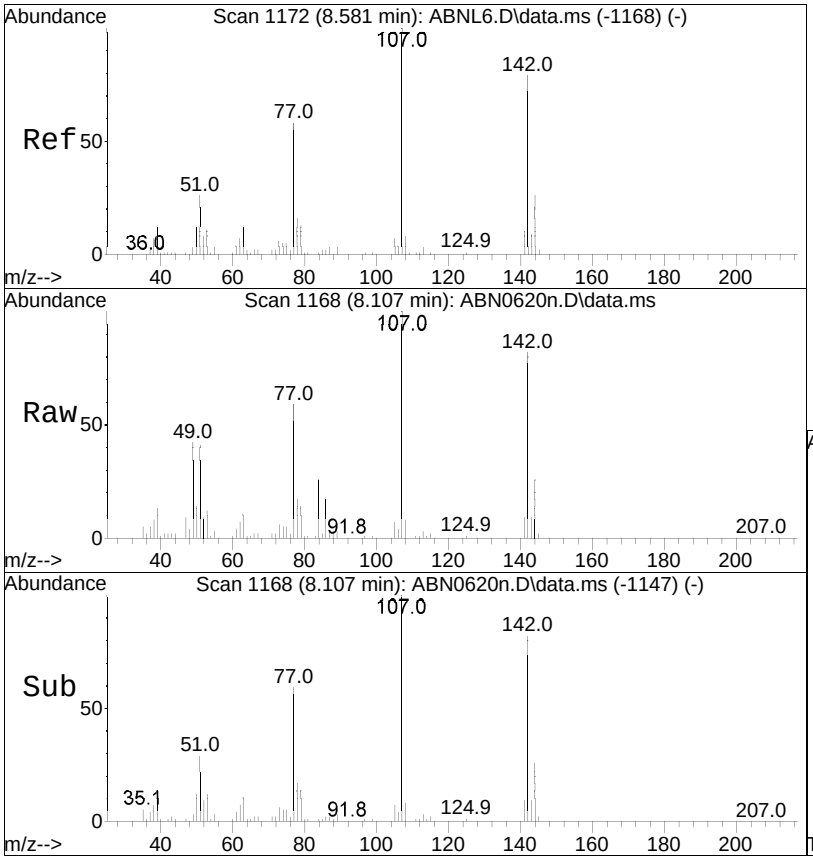


#38
Hexachlorobutadiene
Concen: 4.64 ug/ml
RT: 7.642 min Scan# 1089
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:225 Resp: 57583

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.3	75.5
227	62.4	52.2	78.2

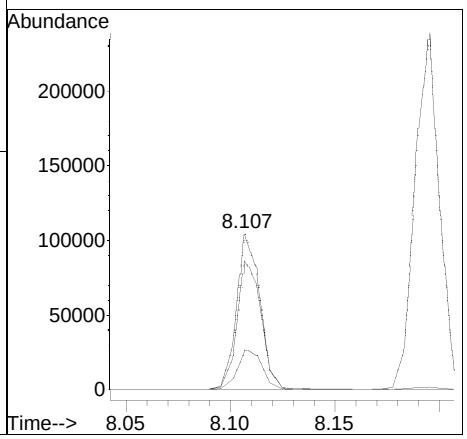


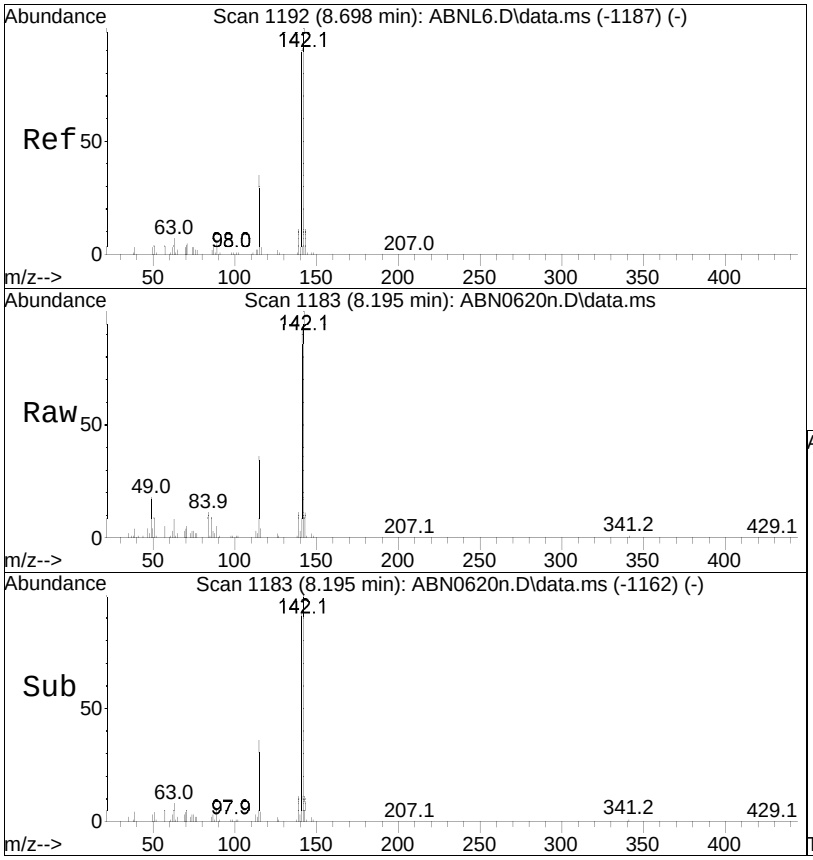


#39
p-Chloro-m-cresol
Concen: 5.08 ug/ml
RT: 8.107 min Scan# 1168
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:107 Resp: 81510

Ion	Ratio	Lower	Upper
107	100		
144	26.6	20.9	31.3
142	84.7	66.1	99.1

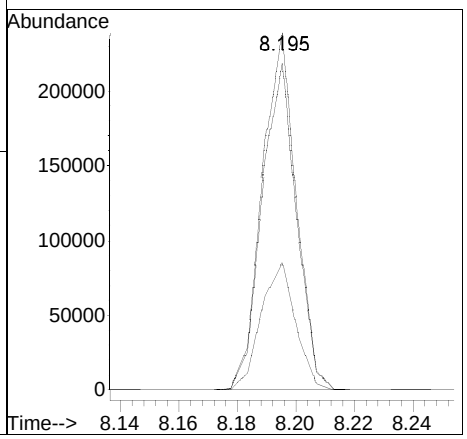


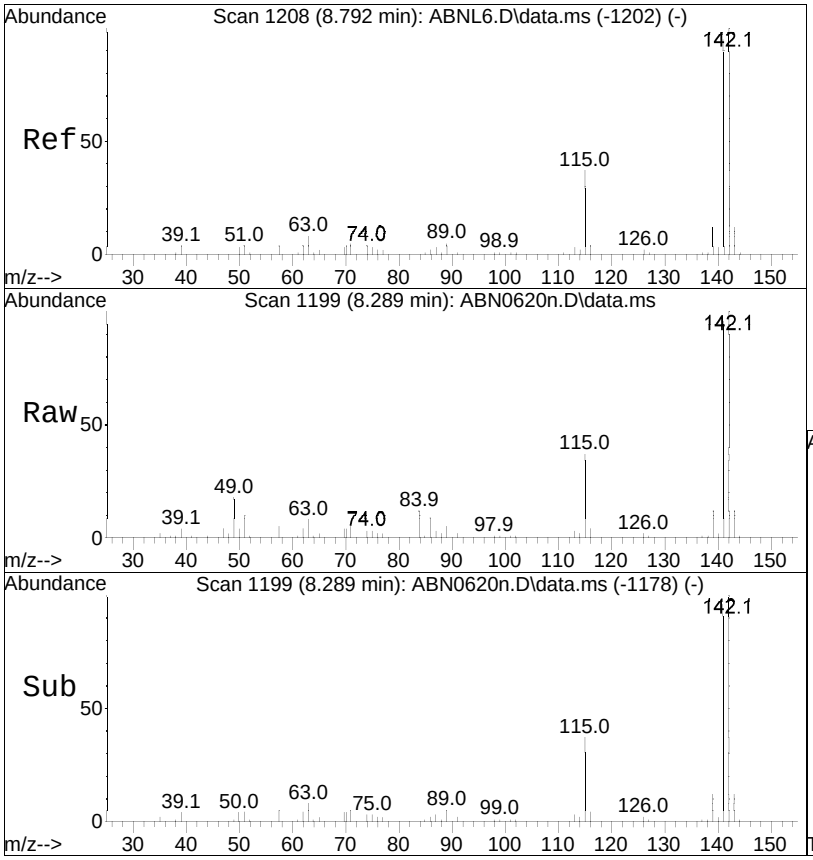


#40
2-Methylnaphthalene
Concen: 4.77 ug/ml
RT: 8.195 min Scan# 1183
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:142 Resp: 193463

Ion	Ratio	Lower	Upper
142	100		
141	92.2	69.6	104.4
115	36.1	26.6	40.0

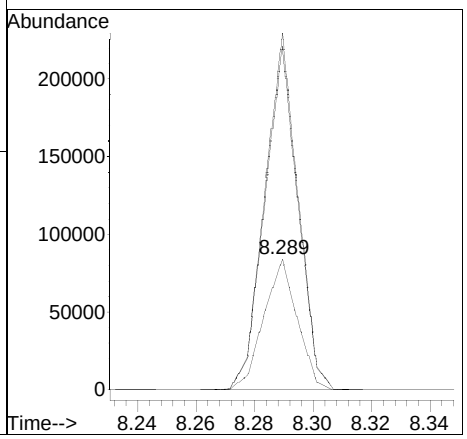


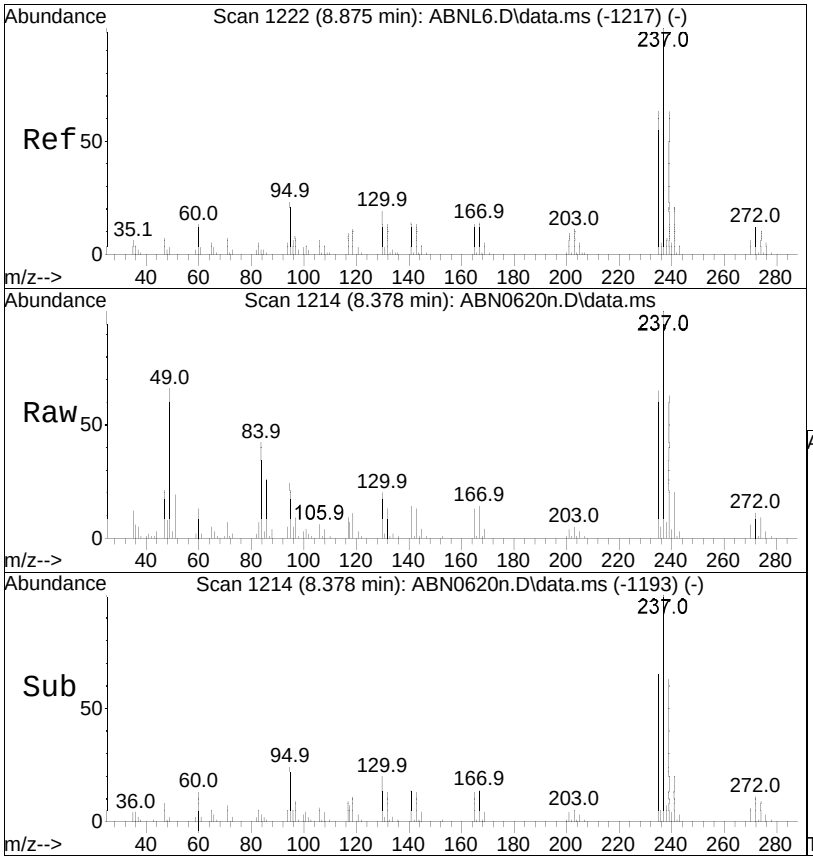


#41
1-Methylnaphthalene
Concen: 4.85 ug/ml
RT: 8.289 min Scan# 1199
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:115 Resp: 67118

Ion	Ratio	Lower	Upper
115	100		
141	257.8	207.8	311.6
142	268.5	226.8	340.2

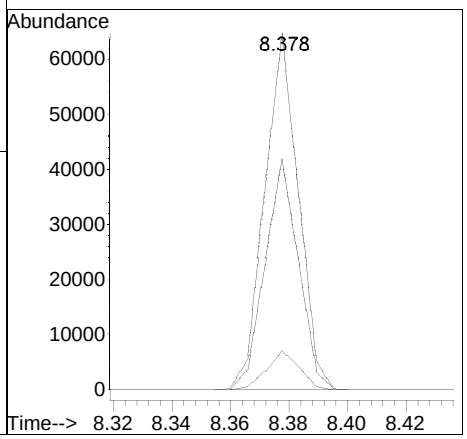


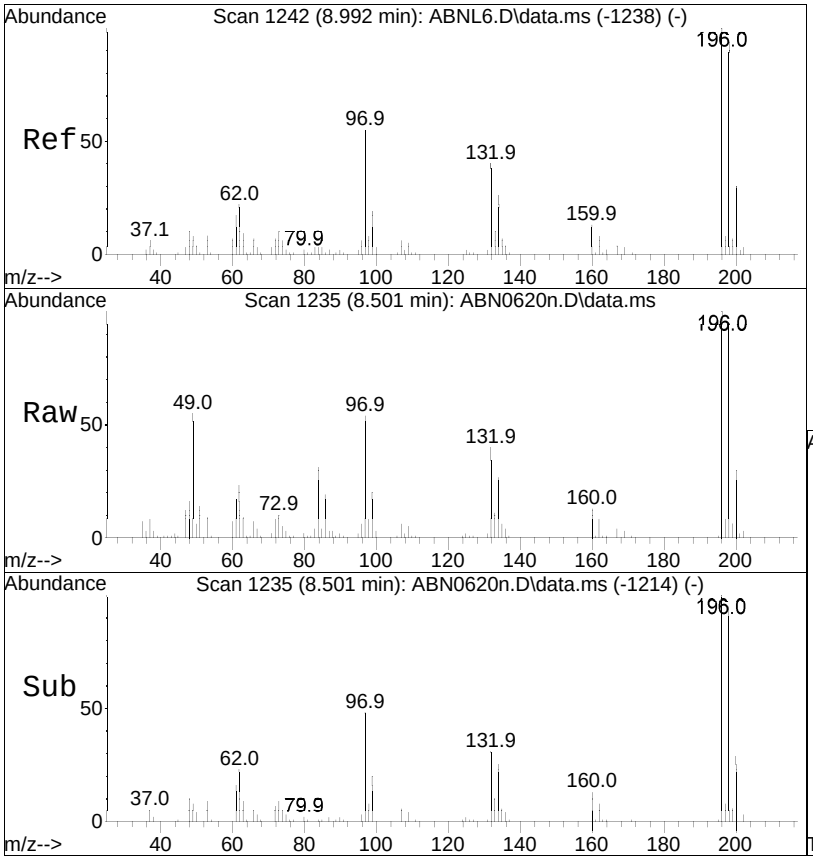


#42
Hexachlorocyclopentadiene
Concen: 4.26 ug/ml
RT: 8.378 min Scan# 1214
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:237 Resp: 51509

Ion	Ratio	Lower	Upper
237	100		
235	64.3	49.7	74.5
272	10.7	9.8	14.6

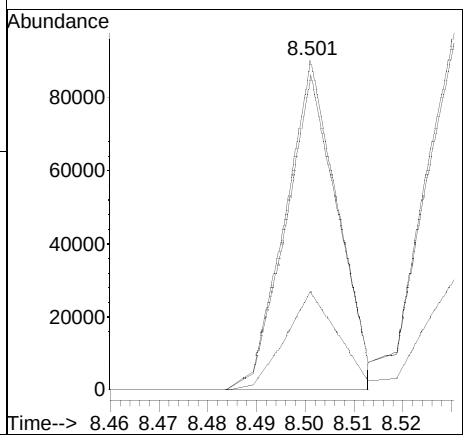


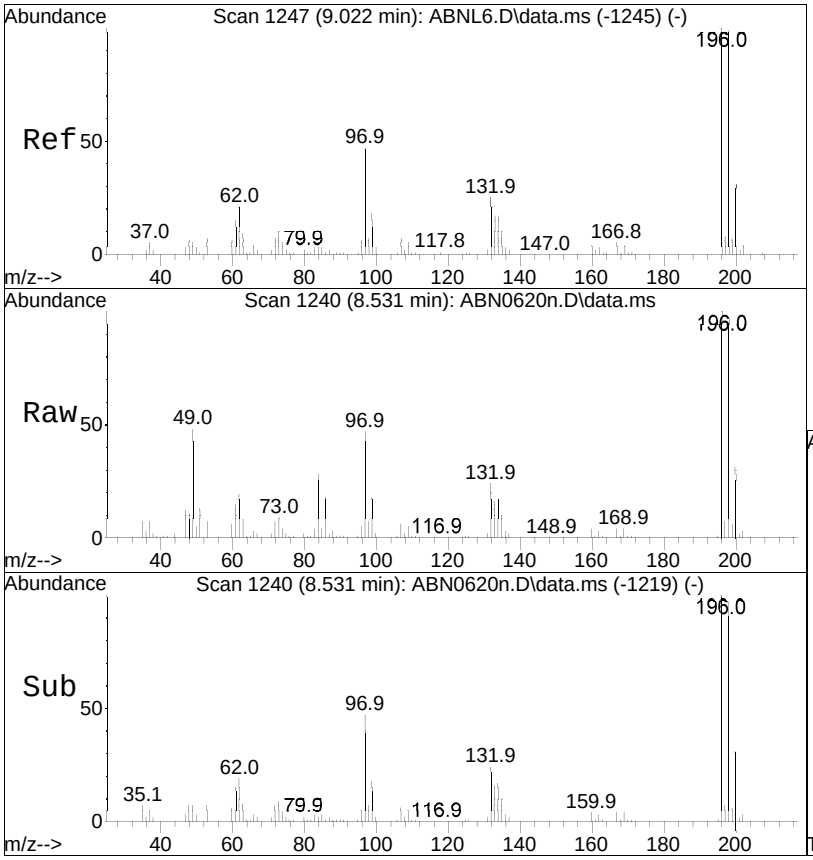


#43
2,4,6-Trichlorophenol
Concen: 4.87 ug/ml
RT: 8.501 min Scan# 1235
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:196 Resp: 67921

Ion	Ratio	Lower	Upper
196	100		
198	95.4	77.5	116.3
200	30.1	23.8	35.6

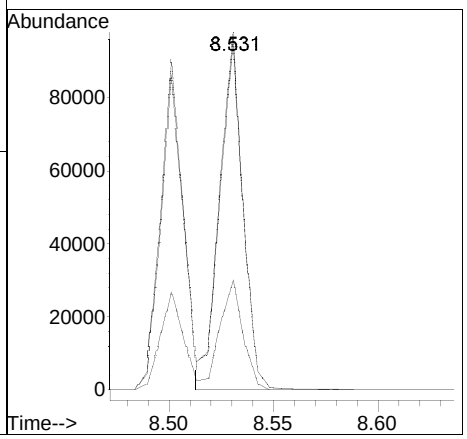


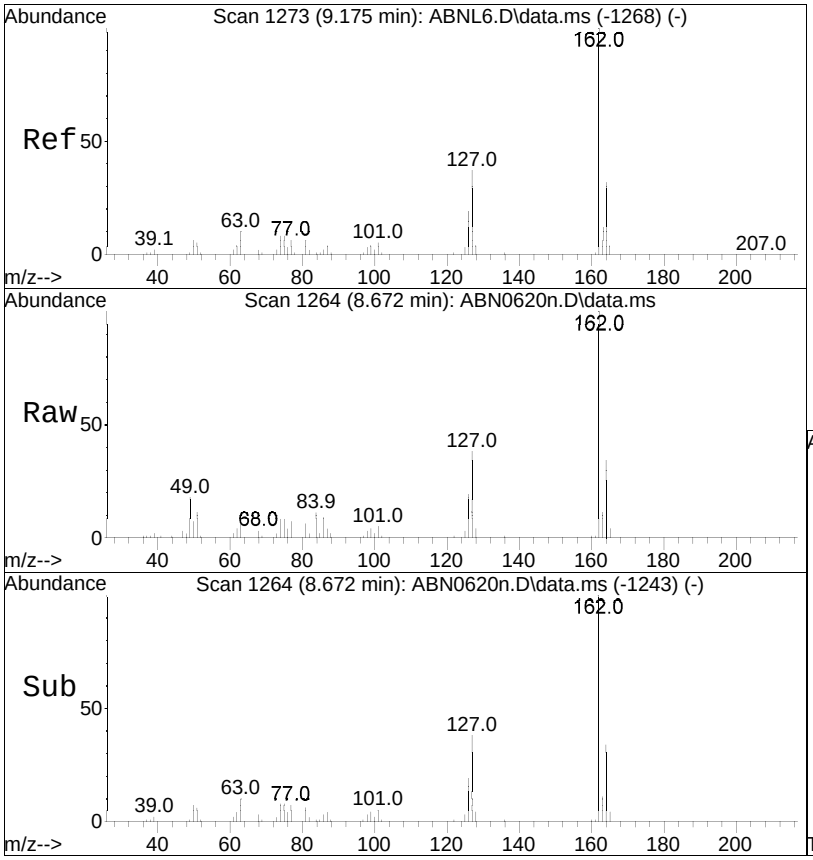


#44
2,4,5-Trichlorophenol
Concen: 5.09 ug/ml
RT: 8.531 min Scan# 1240
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:196 Resp: 75348

Ion	Ratio	Lower	Upper
196	100		
200	30.5	25.4	38.0
198	96.8	78.0	117.0

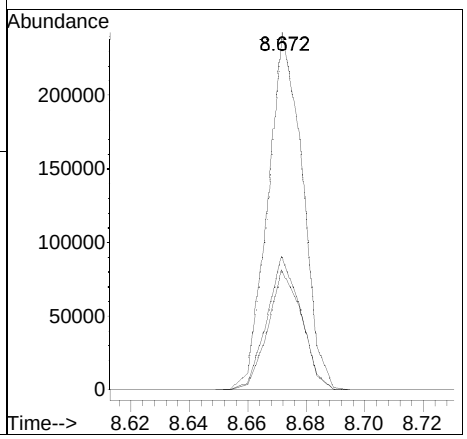


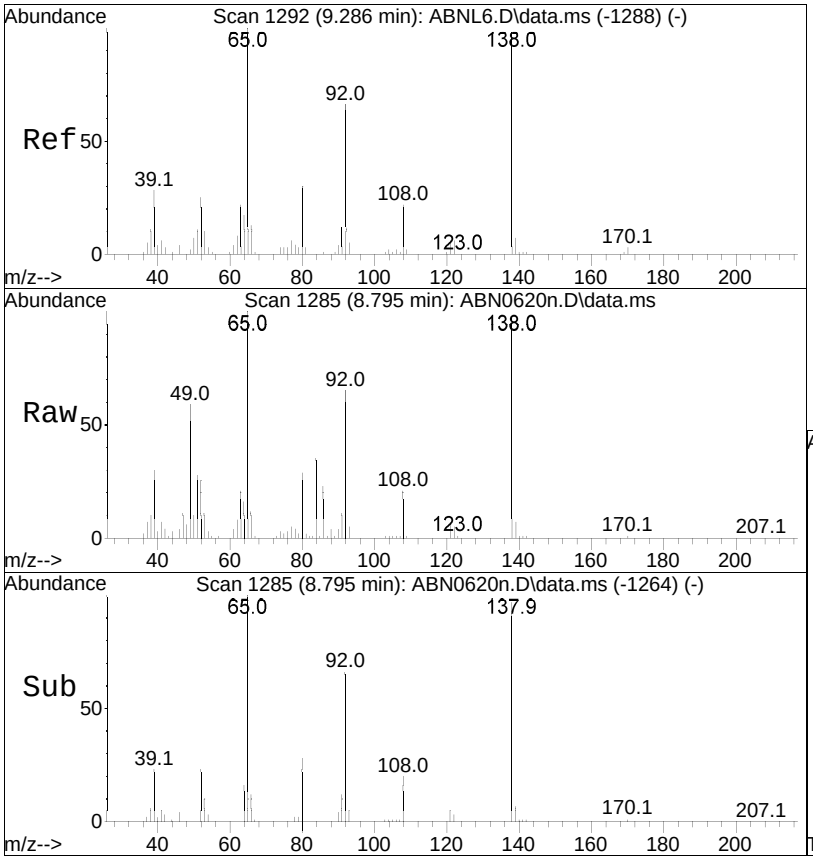


#46
2-Chloronaphthalene
Concen: 4.68 ug/ml
RT: 8.672 min Scan# 1264
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:162 Resp: 197389

Ion	Ratio	Lower	Upper
162	100		
127	36.6	32.2	48.4
164	33.2	25.7	38.5

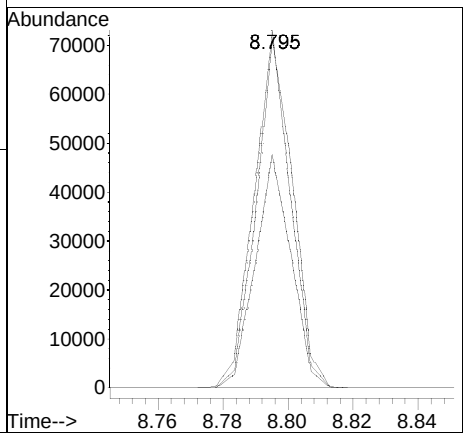


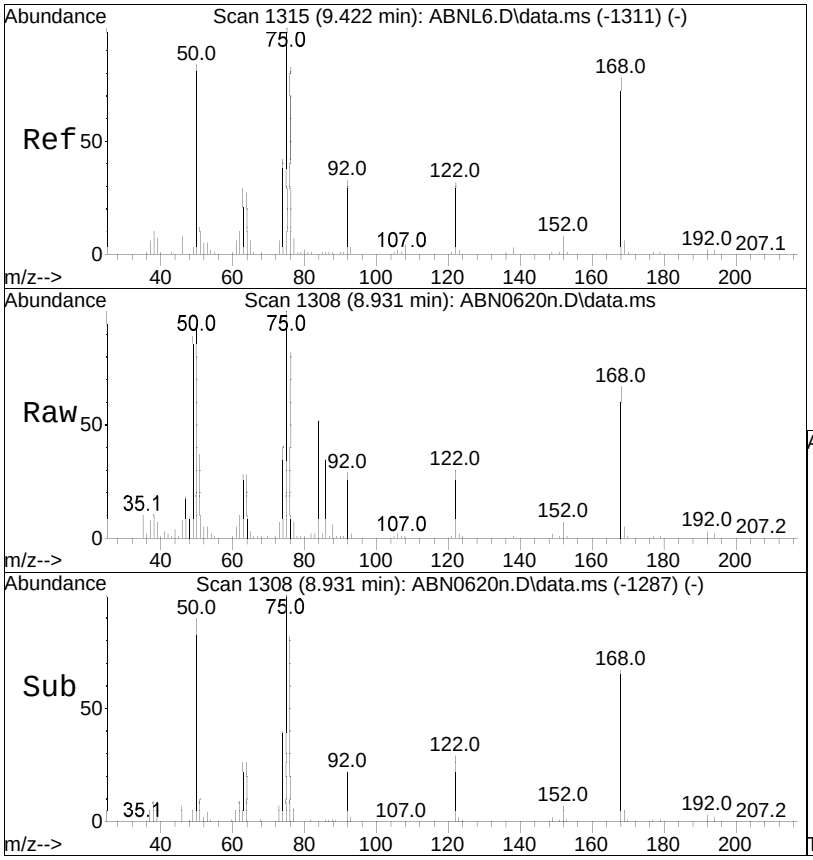


#47
2-Nitroaniline
Concen: 5.41 ug/ml
RT: 8.795 min Scan# 1285
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:138 Resp: 55202

Ion	Ratio	Lower	Upper
138	100		
92	65.7	53.5	80.3
65	100.6	86.3	129.5

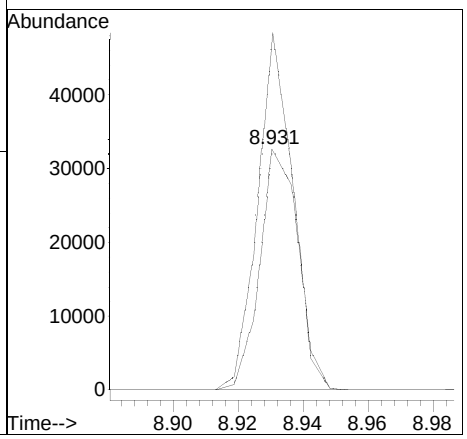


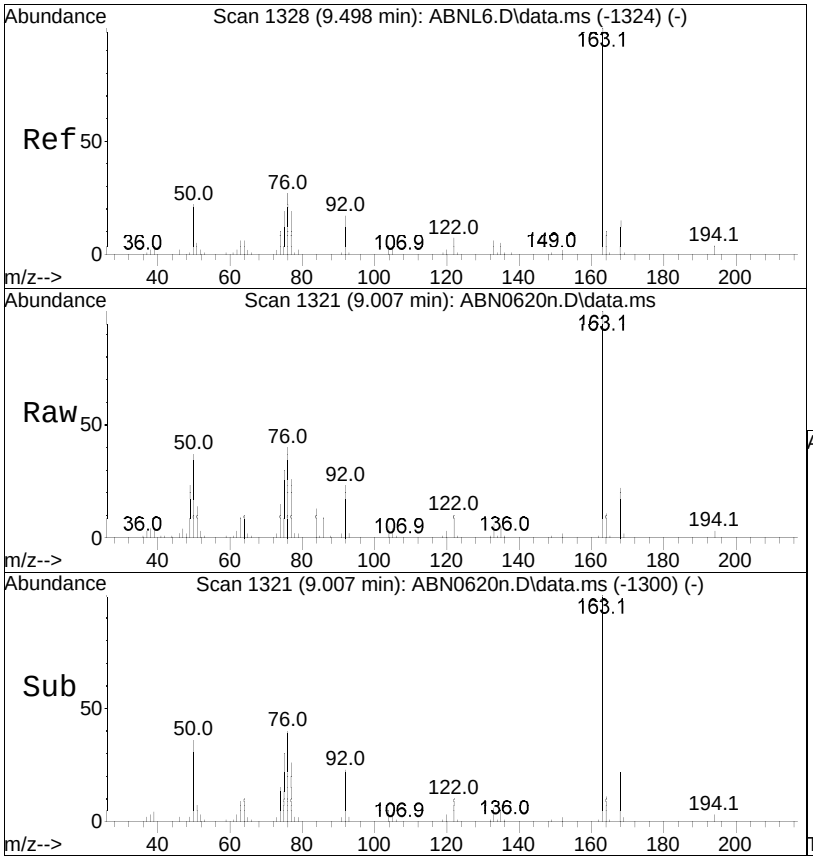


#48
1,4-Dinitrobenzene
Concen: 5.24 ug/ml
RT: 8.931 min Scan# 1308
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:168 Resp: 26866

Ion	Ratio	Lower	Upper
168	100		
75	135.1	121.8	182.8

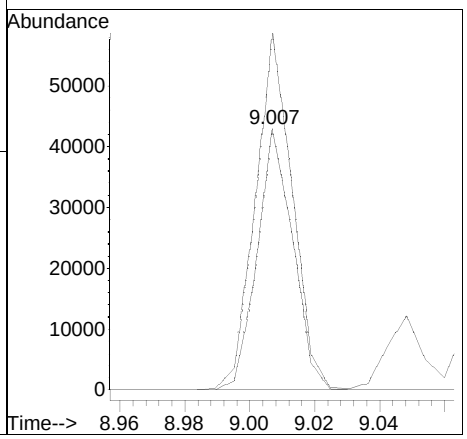


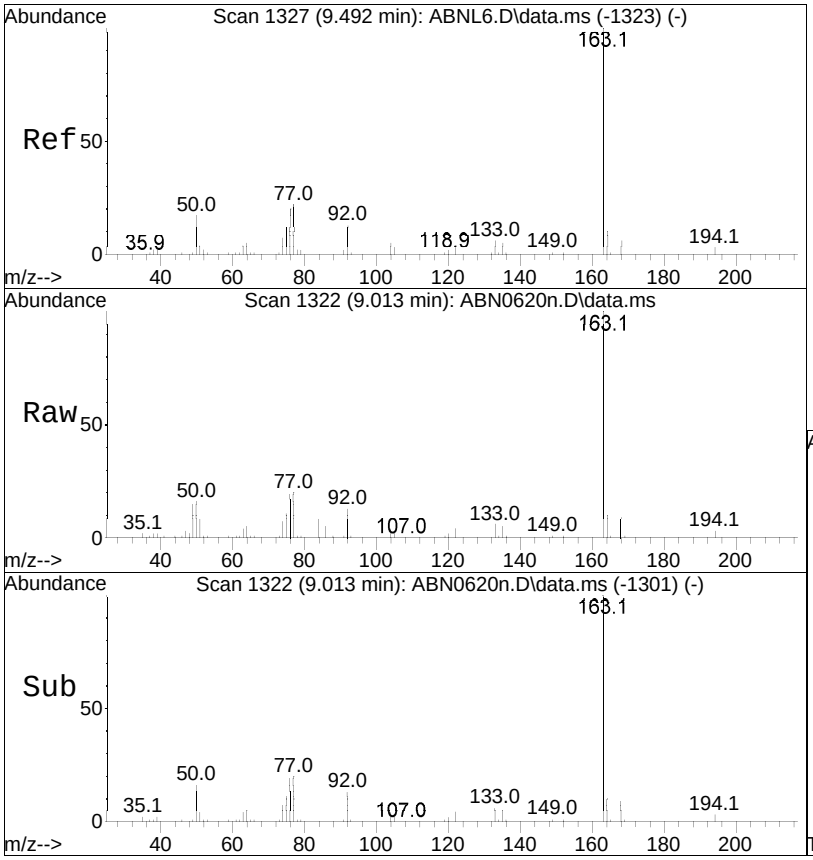


#49
1,3-Dinitrobenzene
Concen: 5.07 ug/ml
RT: 9.007 min Scan# 1321
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:168 Resp: 32468

Ion	Ratio	Lower	Upper
168	100		
75	141.2	22.7	34.1#

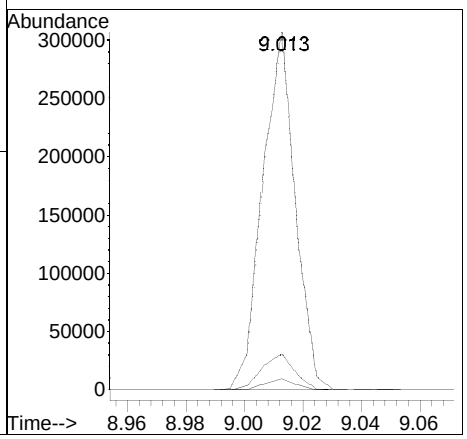


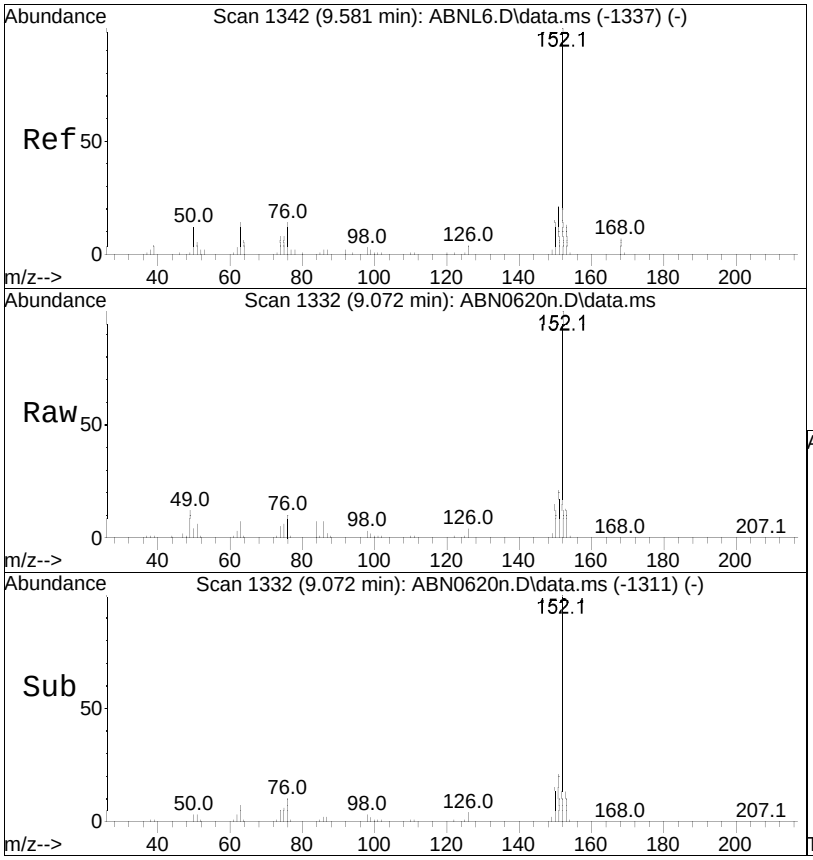


#50
Dimethyl phthalate
Concen: 4.76 ug/ml
RT: 9.013 min Scan# 1322
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:163 Resp: 235123

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.3	7.9	11.9

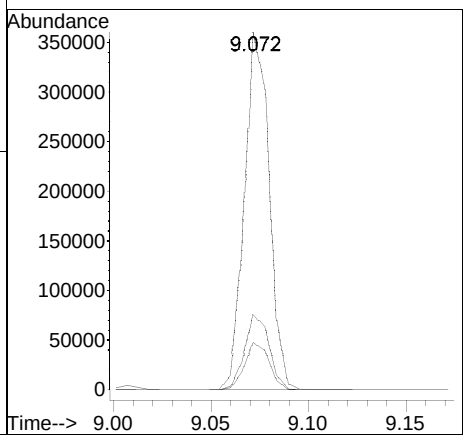


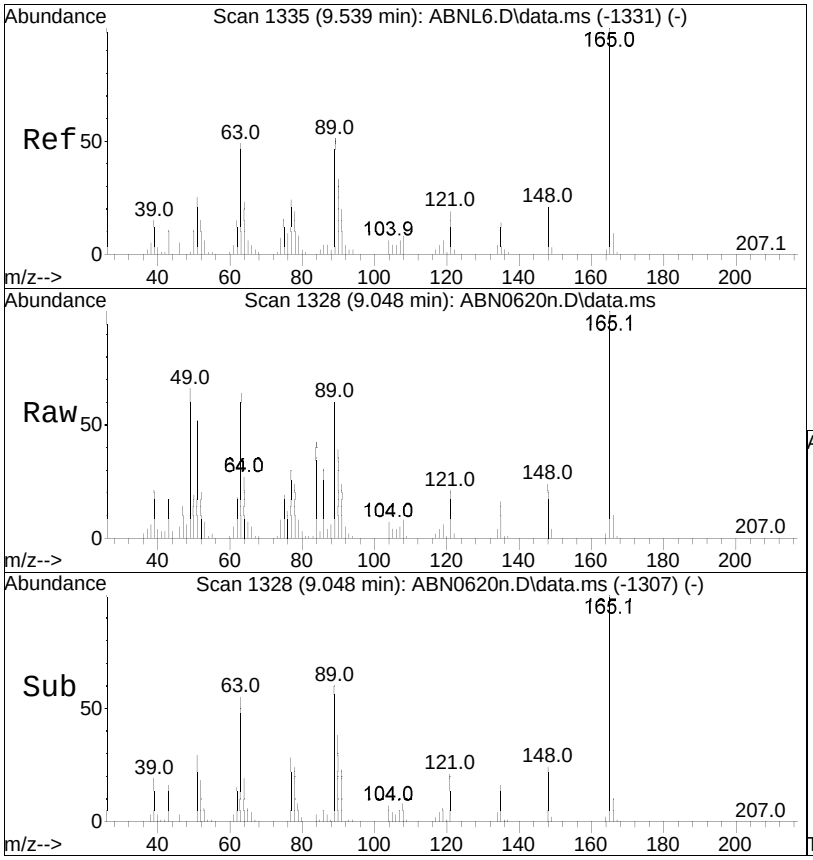


#51
Acenaphthylene
Concen: 4.94 ug/ml
RT: 9.072 min Scan# 1332
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:152 Resp: 314463

Ion	Ratio	Lower	Upper
152	100		
151	21.0	15.8	23.6
153	13.2	10.5	15.7

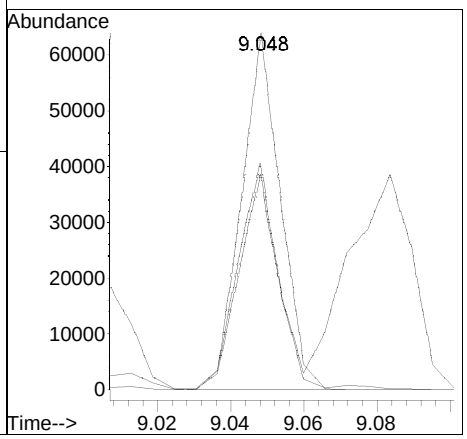


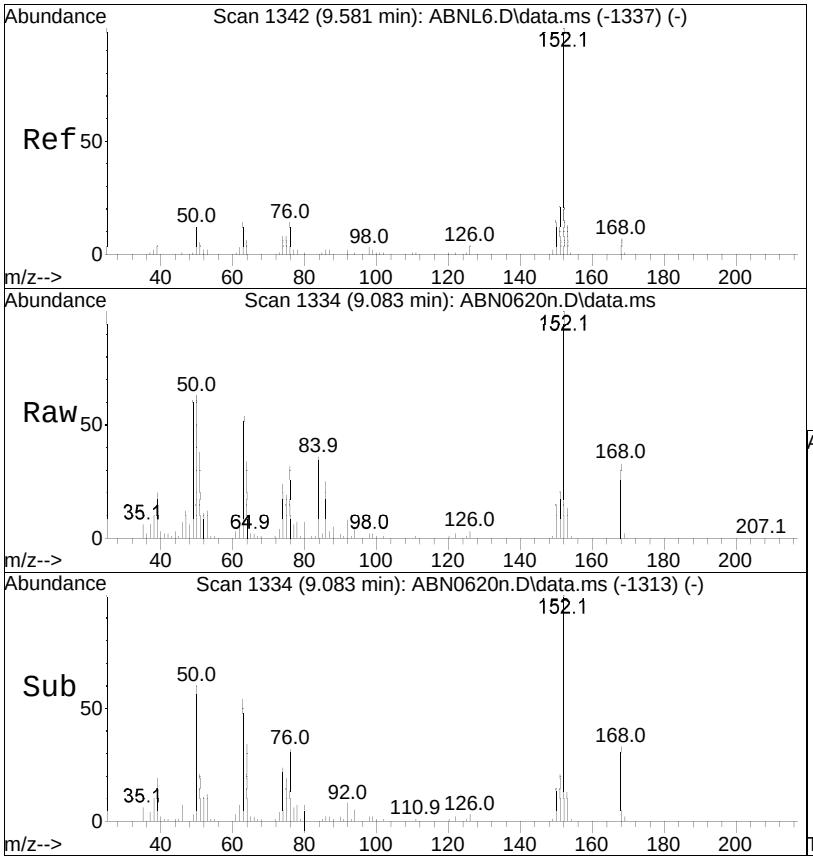


#52
2,6-Dinitrotoluene
Concen: 5.28 ug/ml
RT: 9.048 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:165 Resp: 47451

Ion	Ratio	Lower	Upper
165	100		
89	62.0	54.2	81.2
63	65.3	64.2	96.2

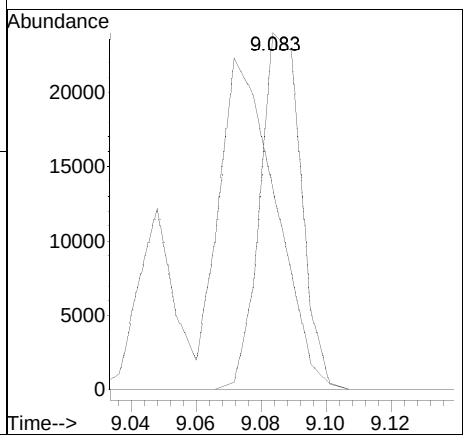


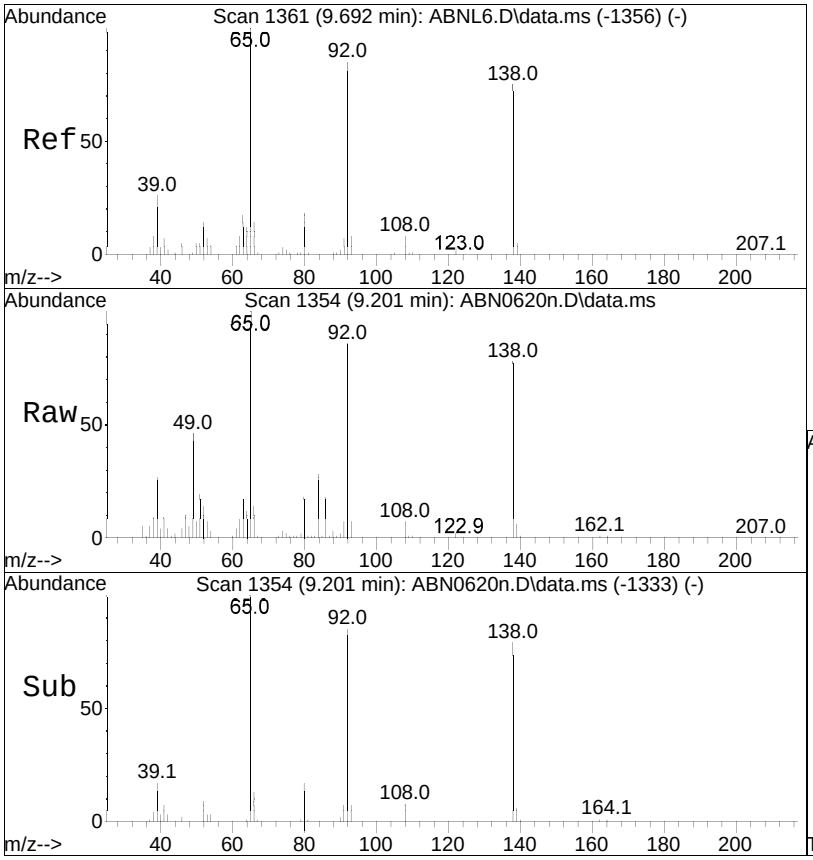


#53
1,2-Dinitrobenzene
Concen: 5.24 ug/ml
RT: 9.083 min Scan# 1334
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:168 Resp: 21065

Ion	Ratio	Lower	Upper
168	100		
75	126.7	30.9	46.3#

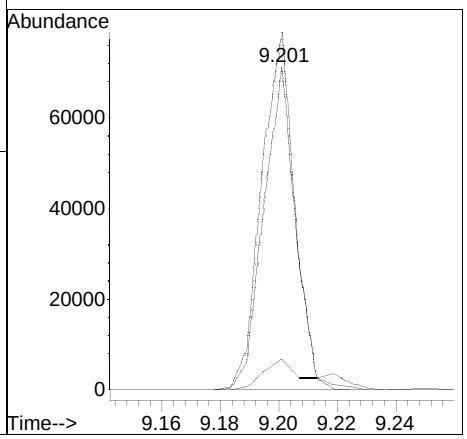


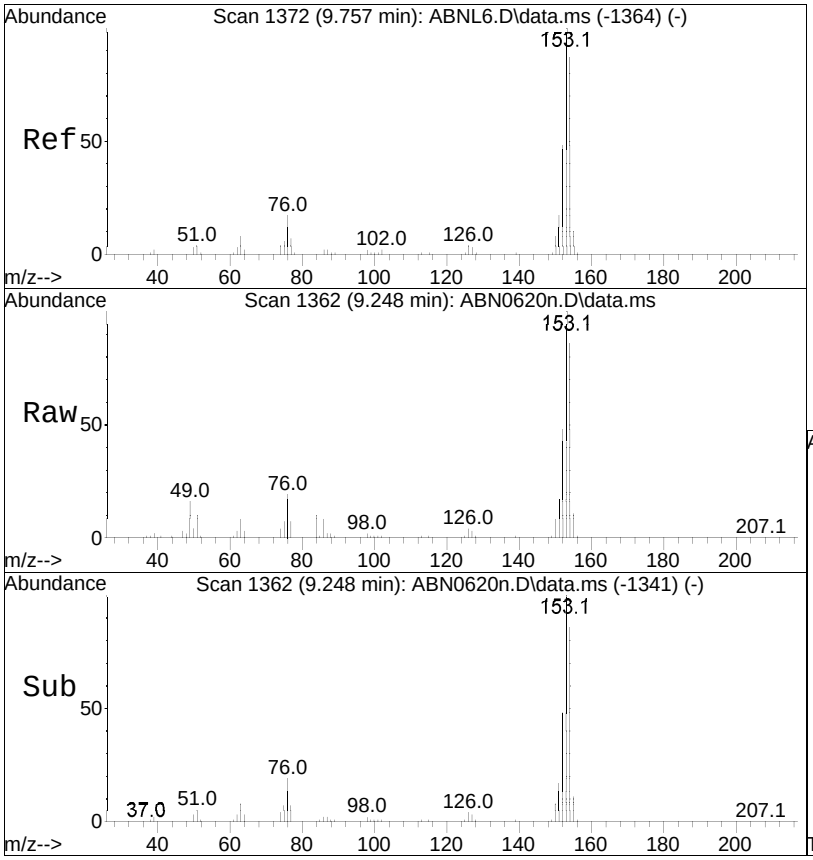


#63
3-Nitroaniline
Concen: 5.79 ug/ml
RT: 9.201 min Scan# 1354
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:138 Resp: 52932

Ion	Ratio	Lower	Upper
138	100		
92	116.5	93.4	140.2
108	14.9	9.5	14.3#

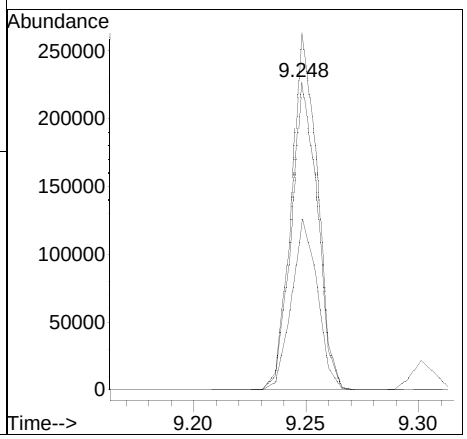


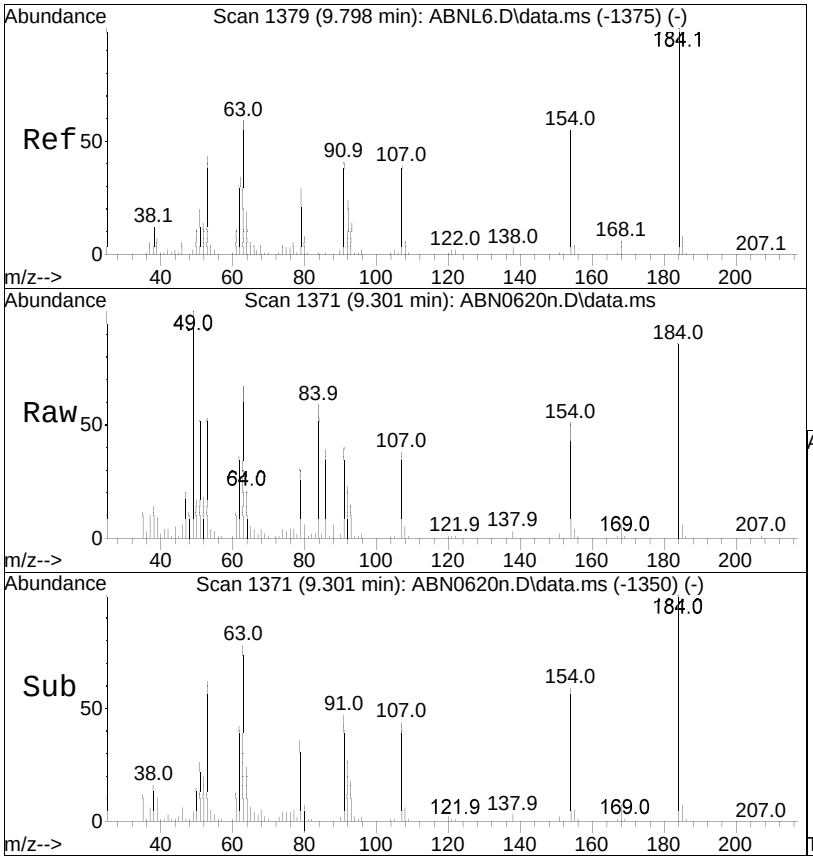


#64
Acenaphthene
Concen: 4.81 ug/ml
RT: 9.248 min Scan# 1362
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:154 Resp: 183469

Ion	Ratio	Lower	Upper
154	100		
153	115.4	85.3	127.9
152	55.3	41.4	62.0

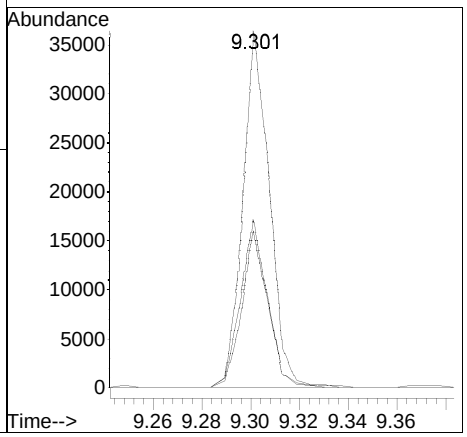


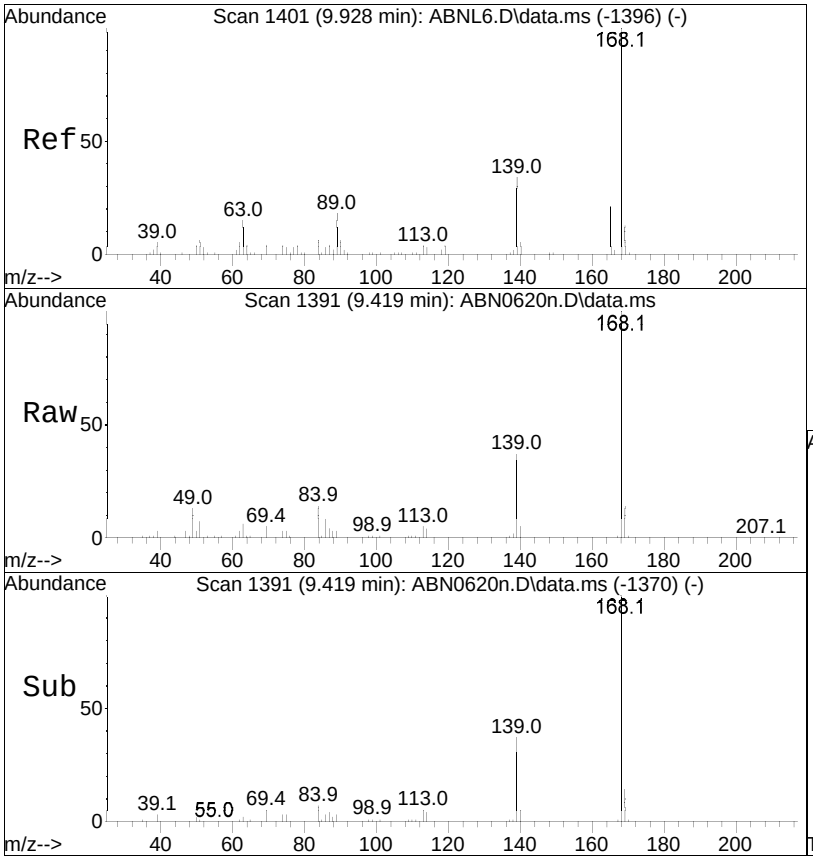


#65
2,4-Dinitrophenol
Concen: 5.48 ug/ml
RT: 9.301 min Scan# 1371
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:184 Resp: 27420

Ion	Ratio	Lower	Upper
184	100		
107	43.3	37.7	56.5
91	48.4	46.3	69.5

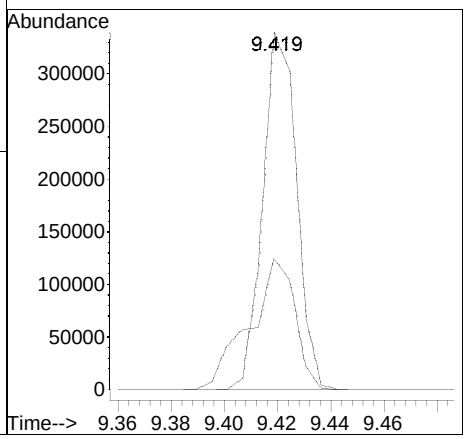


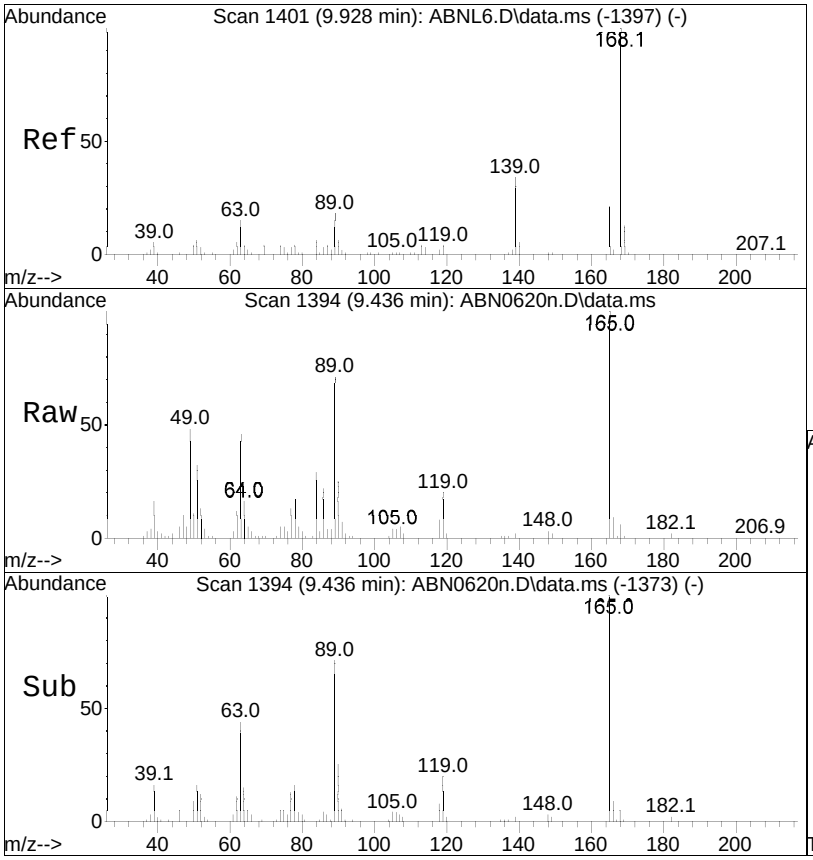


#66
Dibenzofuran
Concen: 4.79 ug/ml
RT: 9.419 min Scan# 1391
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:168 Resp: 296550

Ion	Ratio	Lower	Upper
168	100		
139	49.8	31.4	47.2#

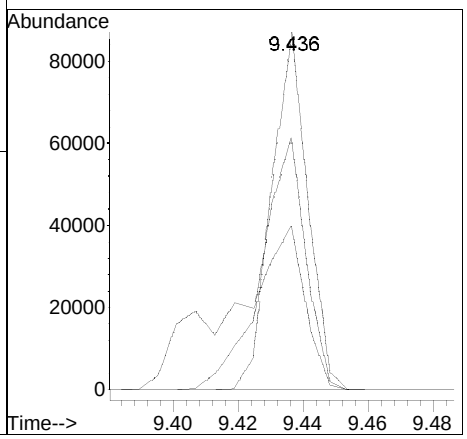


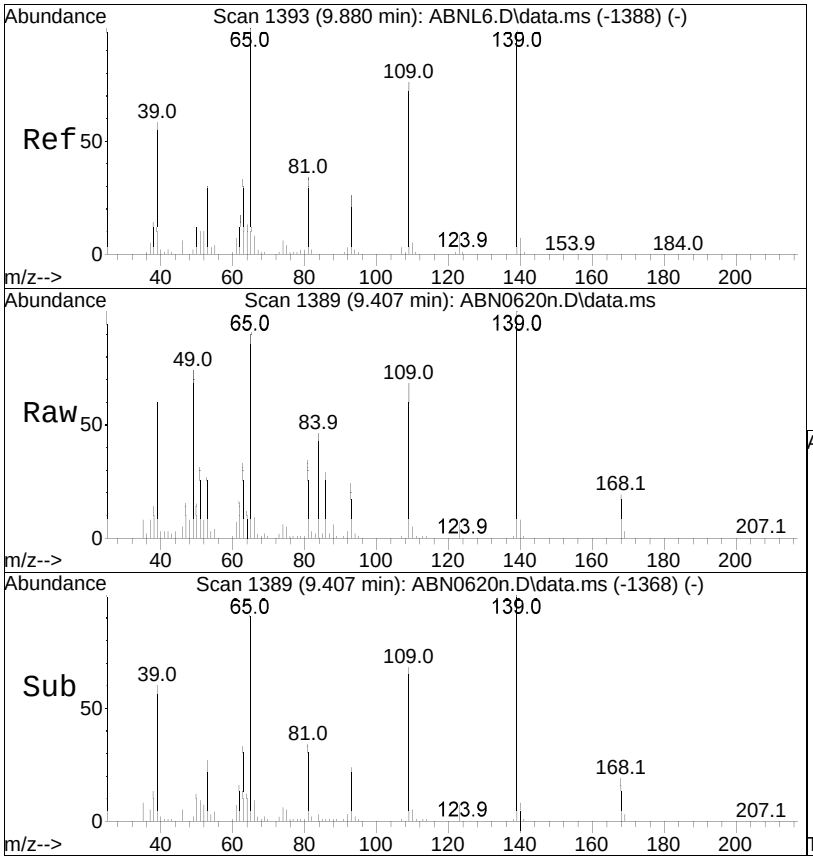


#67
2,4-Dinitrotoluene
Concen: 4.93 ug/ml
RT: 9.436 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:165 Resp: 66982

Ion	Ratio	Lower	Upper
165	100		
89	86.3	72.0	108.0
63	95.0	52.7	79.1#

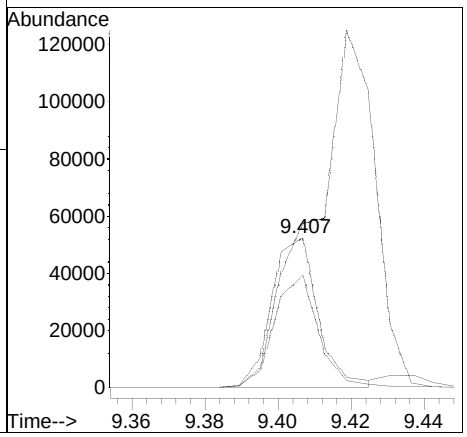


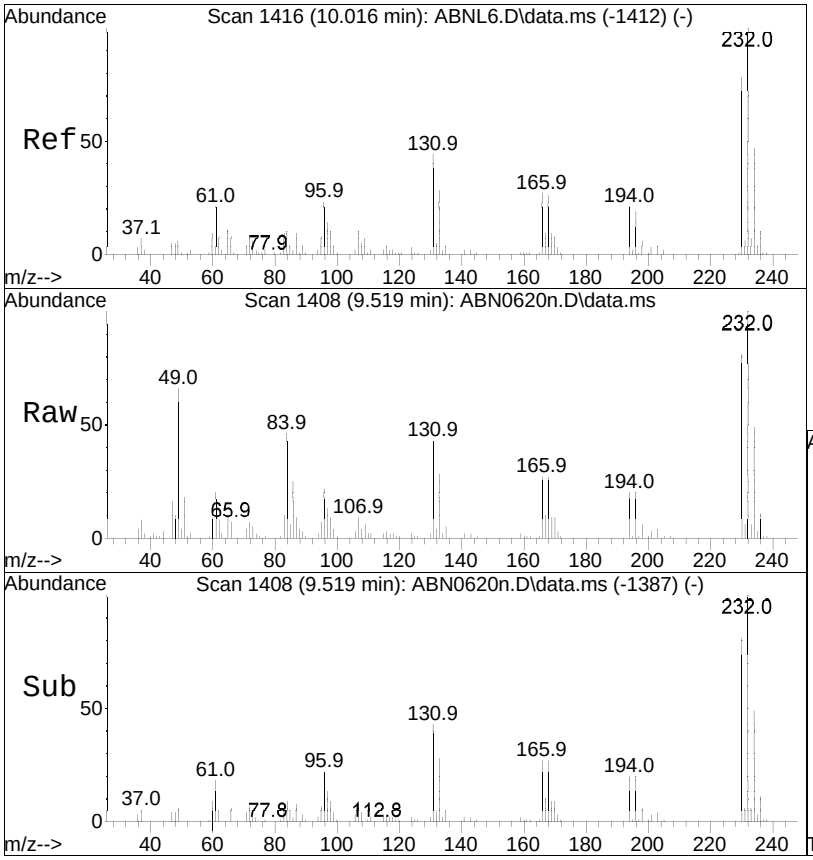


#68
4-Nitrophenol
Concen: 5.93 ug/ml
RT: 9.407 min Scan# 1389
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 65 Resp: 46308

Ion	Ratio	Lower	Upper
65	100		
109	71.7	47.4	71.2#
139	319.1	76.6	115.0#

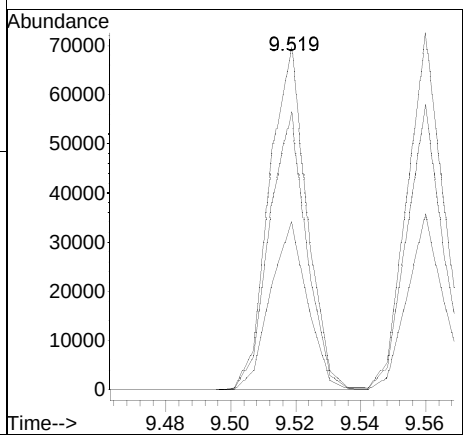


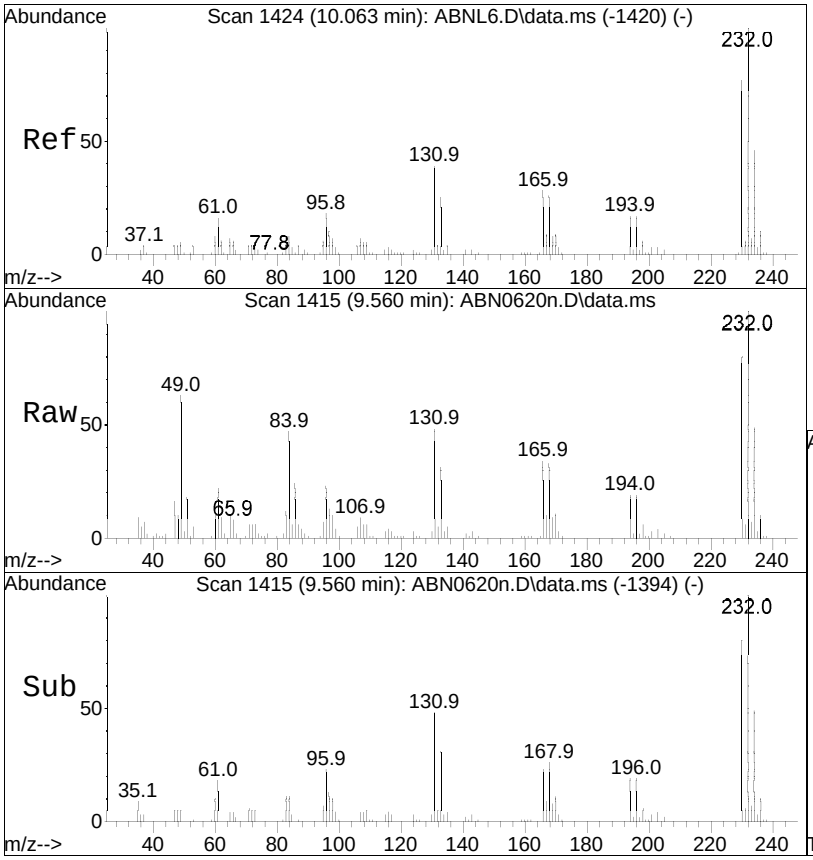


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.03 ug/ml
RT: 9.519 min Scan# 1408
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:232 Resp: 56364

Ion	Ratio	Lower	Upper
232	100		
230	80.0	64.2	96.4
234	48.4	38.1	57.1

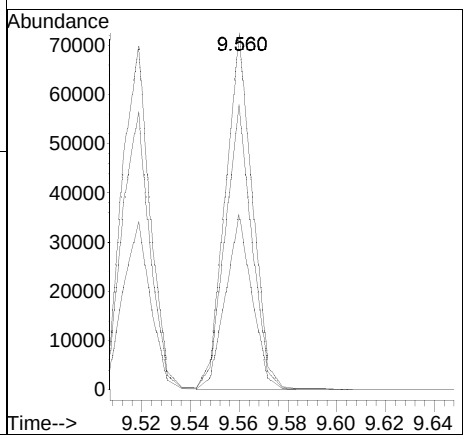


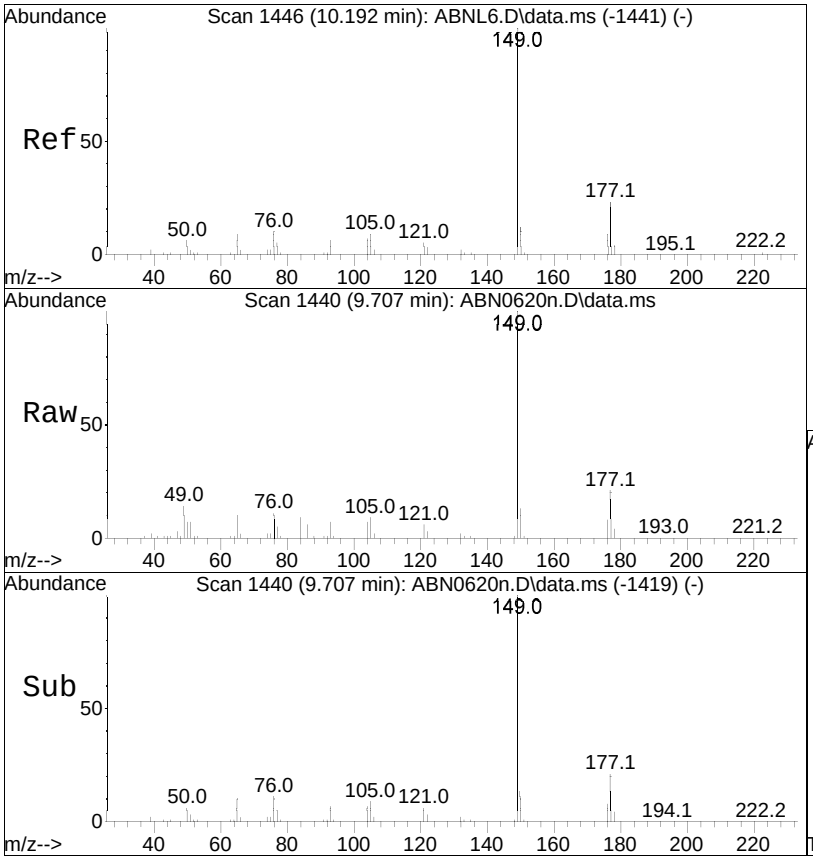


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.10 ug/ml
RT: 9.560 min Scan# 1415
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:232 Resp: 56371

Ion	Ratio	Lower	Upper
232	100		
230	78.8	61.8	92.8
234	48.0	36.2	54.2

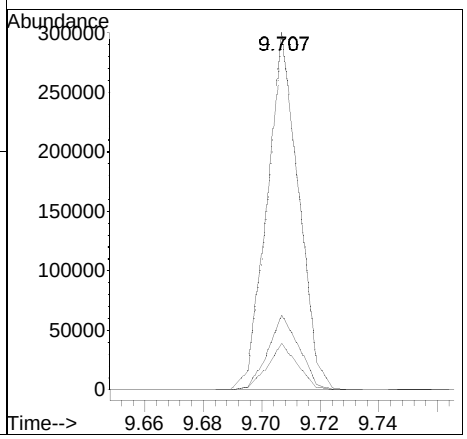


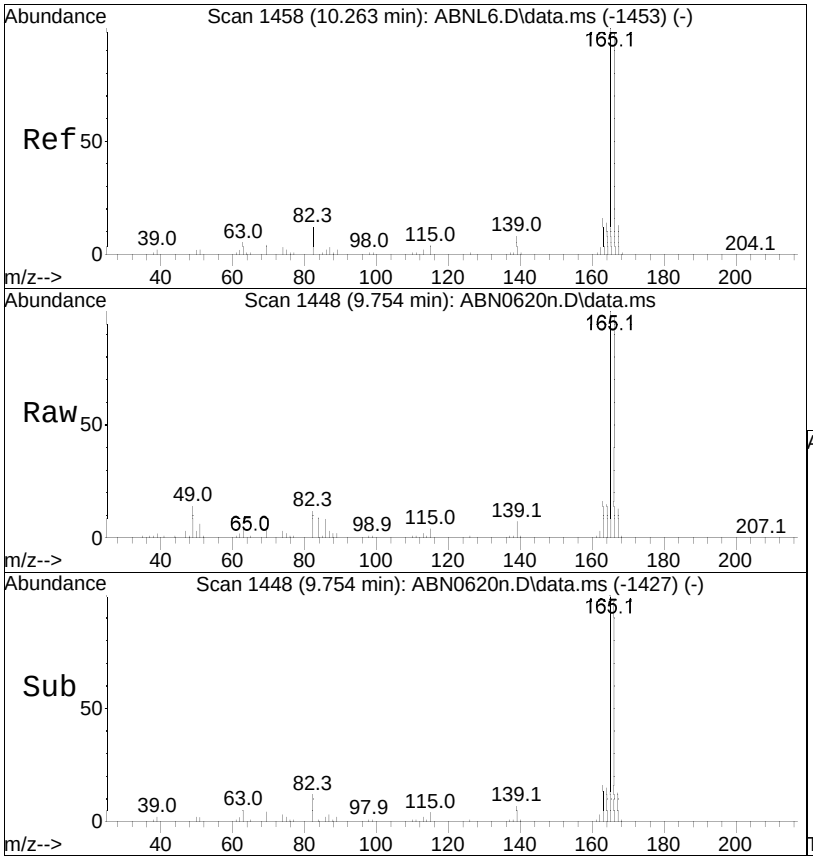


#71
Diethyl phthalate
Concen: 4.86 ug/ml
RT: 9.707 min Scan# 1440
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:149 Resp: 222802

Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.1	24.1
150	12.6	9.4	14.2

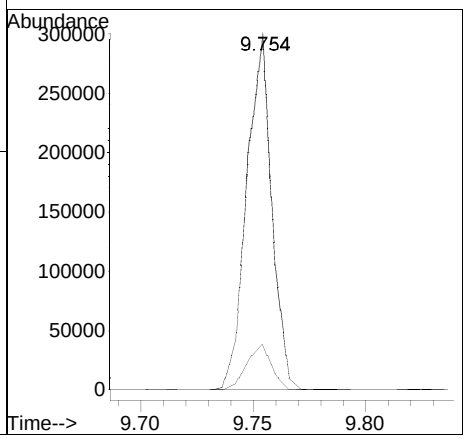


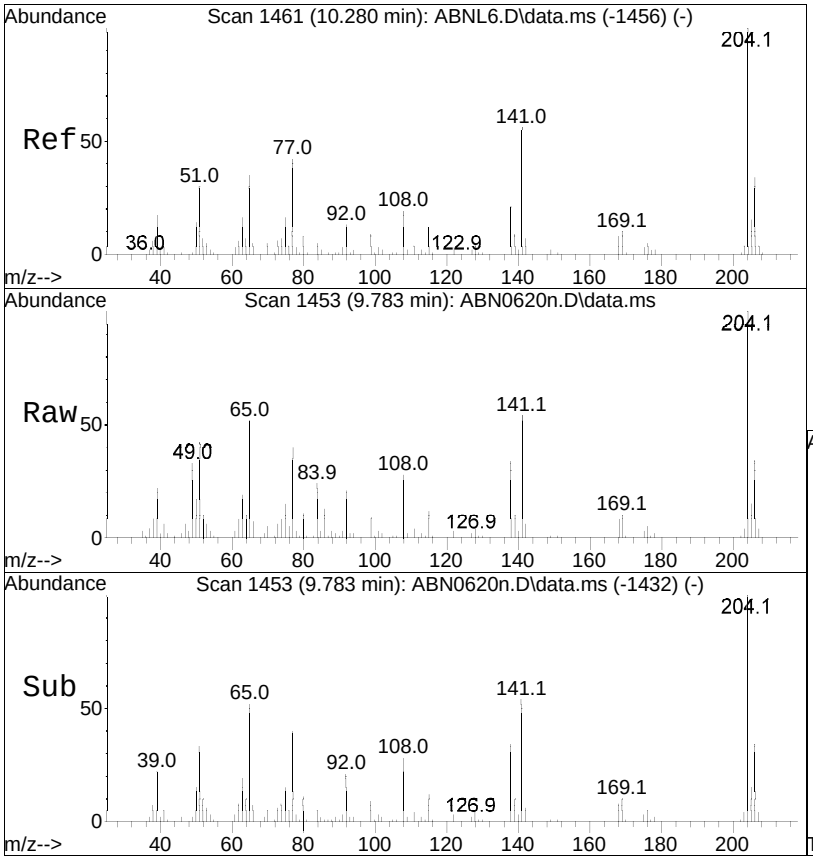


#72
Fluorene
Concen: 4.90 ug/ml
RT: 9.754 min Scan# 1448
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:166 Resp: 229274

Ion	Ratio	Lower	Upper
166	100		
165	101.9	76.2	114.2
167	13.2	10.6	15.8

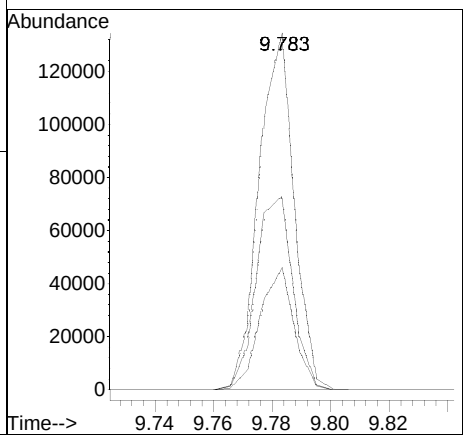


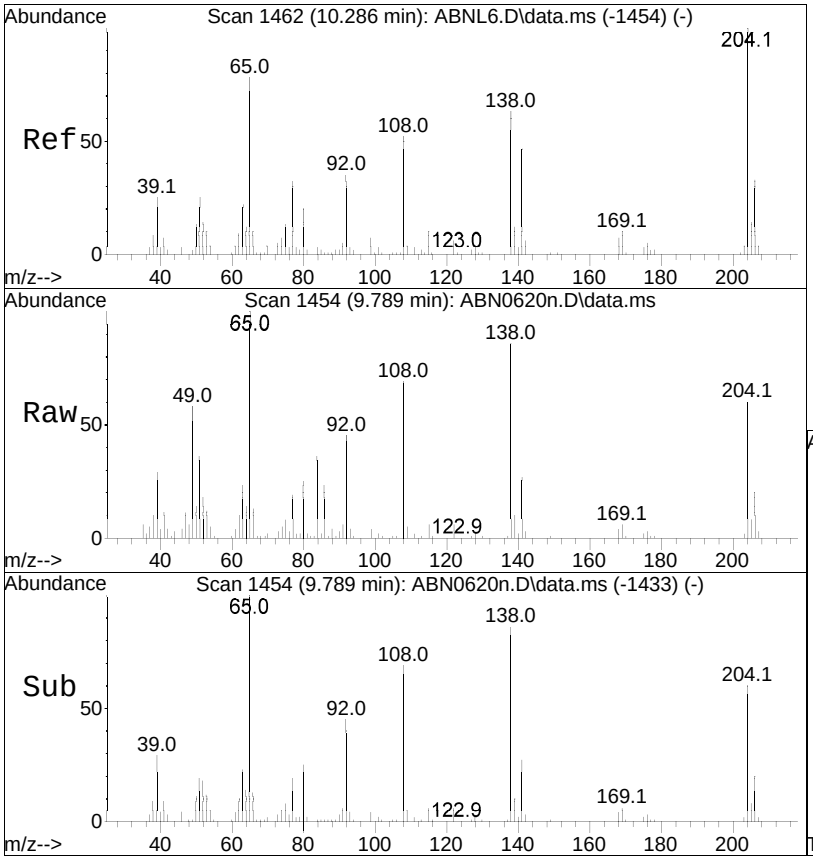


#73
4-Chlorophenyl phenyl ether
Concen: 4.69 ug/ml
RT: 9.783 min Scan# 1453
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:204 Resp: 111024

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	56.9	53.6	80.4

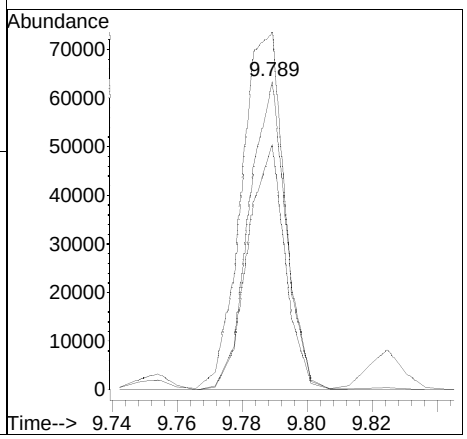


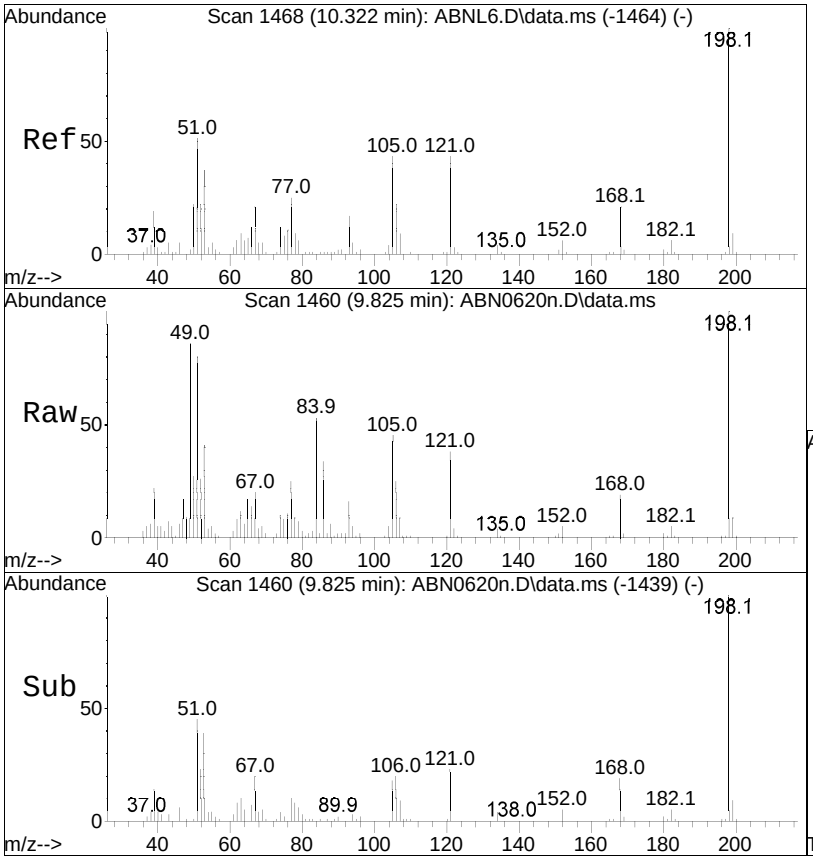


#74
4-Nitroaniline
Concen: 5.41 ug/ml
RT: 9.789 min Scan# 1454
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:138 Resp: 50101

Ion	Ratio	Lower	Upper
138	100		
108	80.3	52.1	78.1#
65	134.8	115.0	172.6

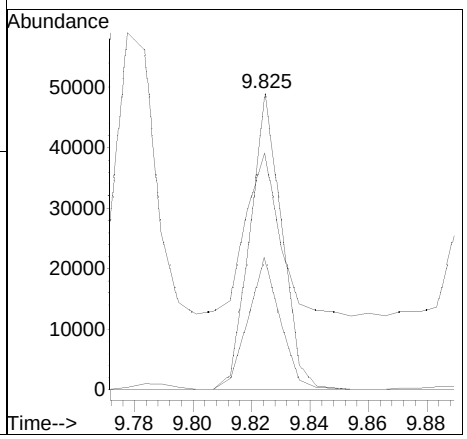


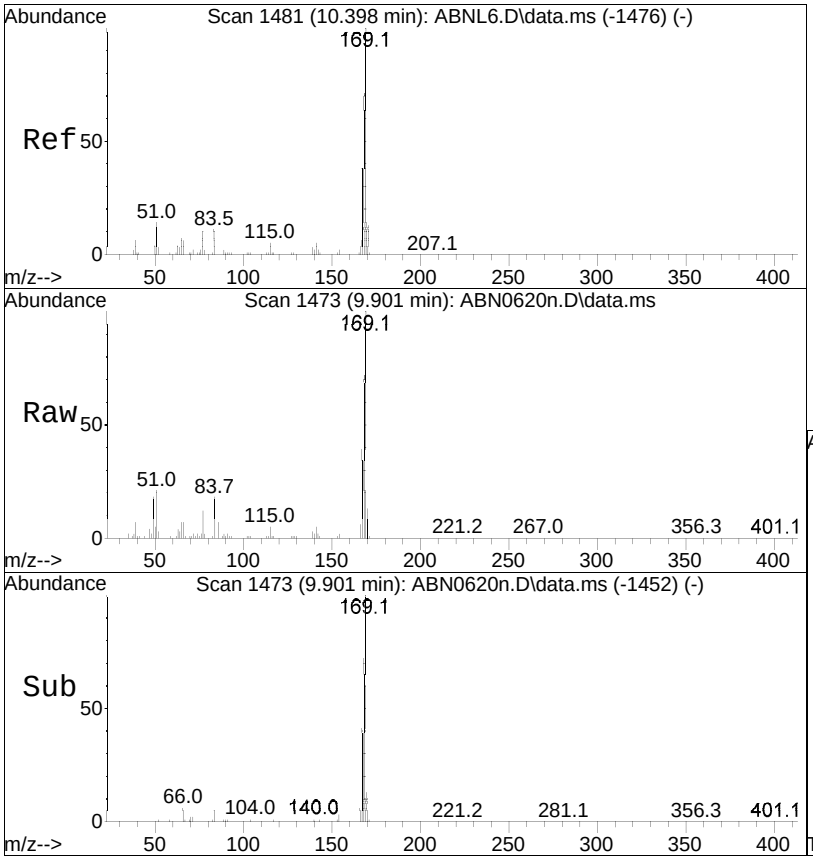


#75
4,6-Dinitro-o-cresol
Concen: 5.12 ug/ml
RT: 9.825 min Scan# 1460
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:198 Resp: 37126

Ion	Ratio	Lower	Upper
198	100		
51	59.7	76.0	114.0#
105	45.1	45.6	68.4#

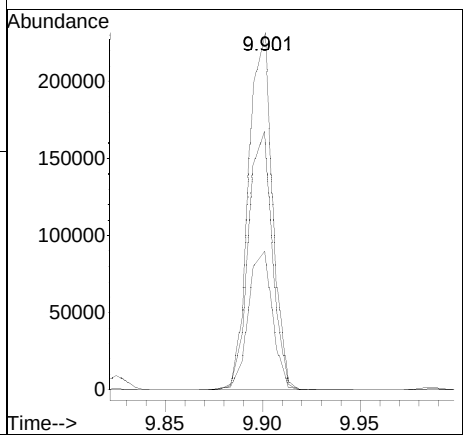


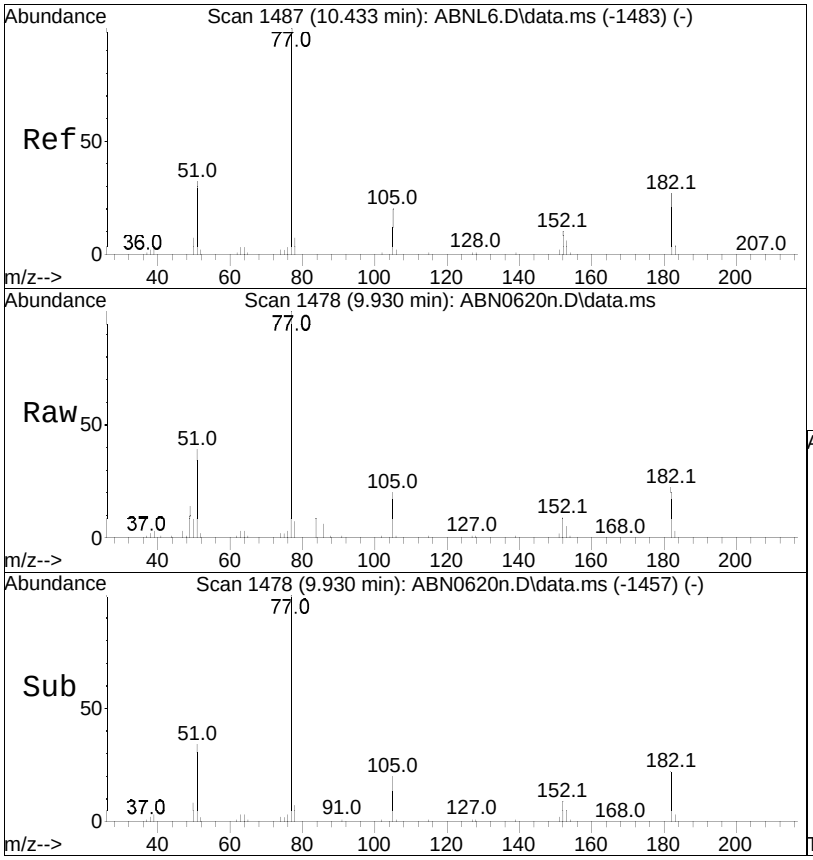


#76
NDPA/DPA
Concen: 4.94 ug/ml
RT: 9.901 min Scan# 1473
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:169 Resp: 196970

Ion	Ratio	Lower	Upper
169	100		
168	73.0	54.0	81.0
167	39.7	28.6	42.8

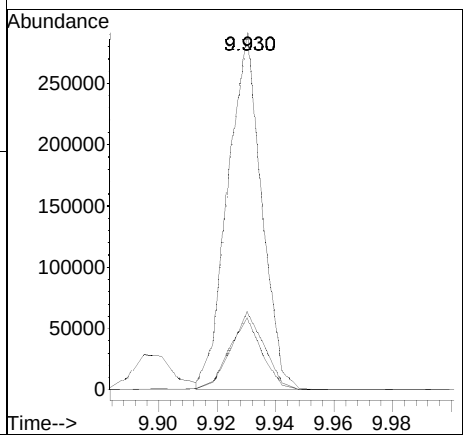


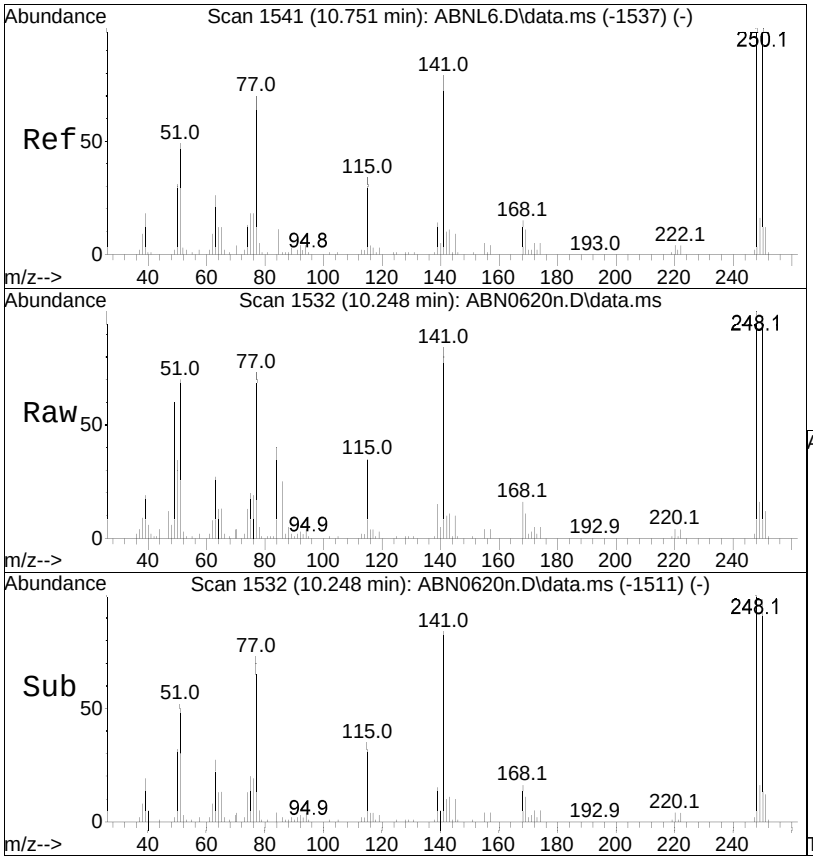


#77
Azobenzene
Concen: 5.23 ug/ml
RT: 9.930 min Scan# 1478
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion: 77 Resp: 232145

Ion	Ratio	Lower	Upper
77	100		
182	22.1	17.4	26.2
105	20.4	15.4	23.2

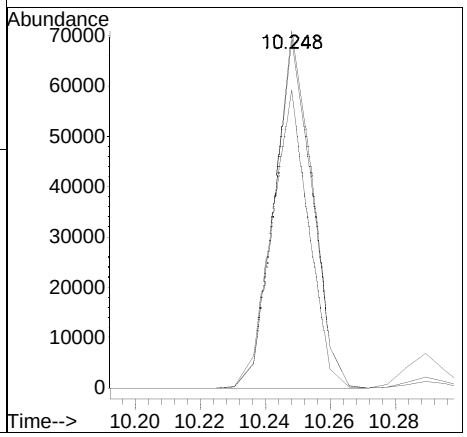


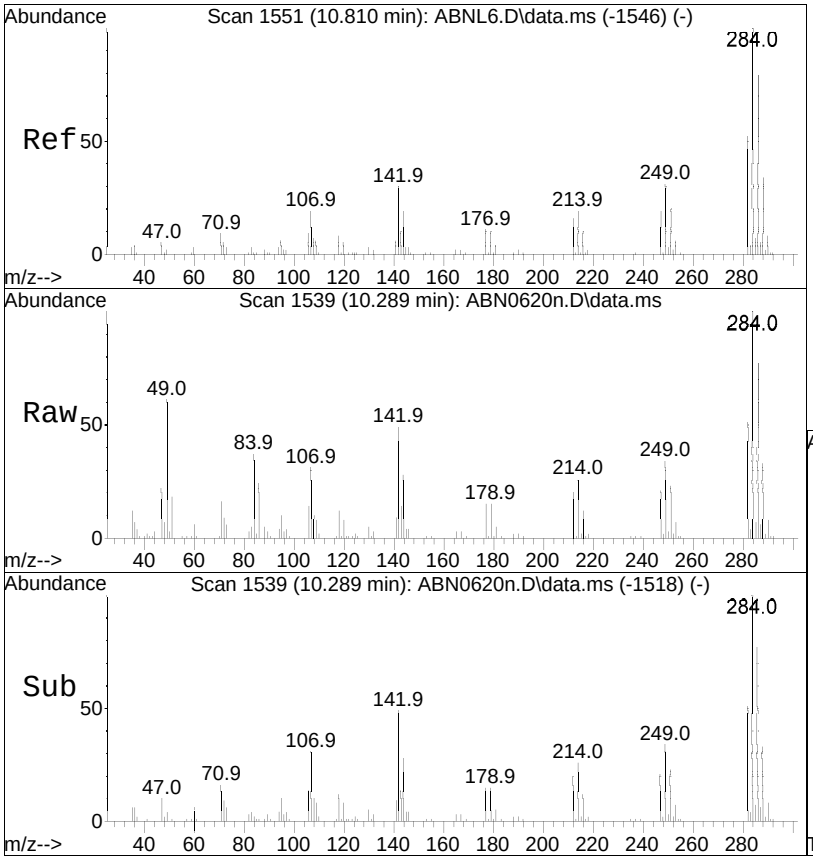


#79
4-Bromophenyl phenyl ether
Concen: 4.28 ug/ml
RT: 10.248 min Scan# 1532
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:248 Resp: 56754

Ion	Ratio	Lower	Upper
248	100		
141	82.0	76.6	114.8
250	97.6	77.3	115.9

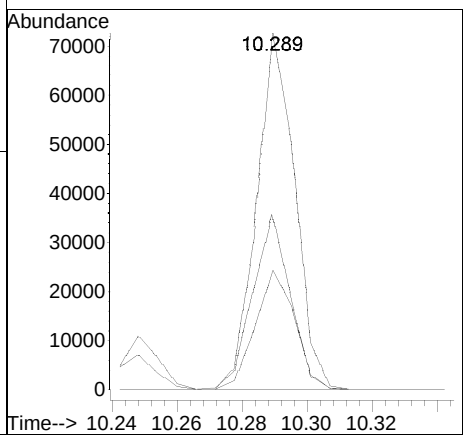


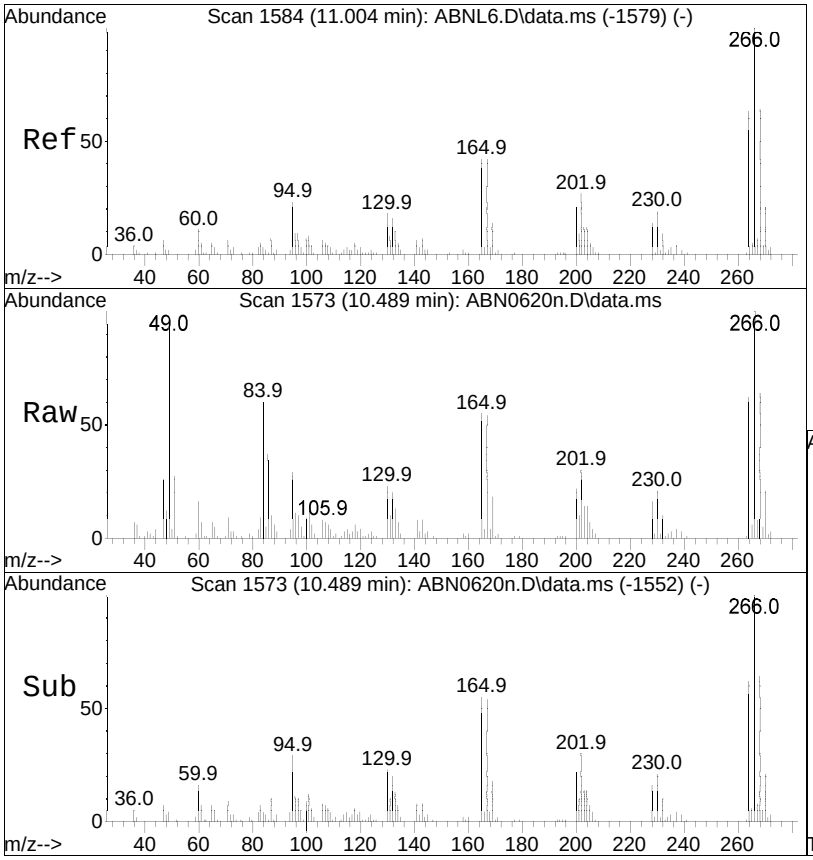


#80
Hexachlorobenzene
Concen: 3.88 ug/ml
RT: 10.289 min Scan# 1539
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:284 Resp: 58981

Ion	Ratio	Lower	Upper
284	100		
142	48.6	41.9	62.9
249	34.7	24.1	36.1

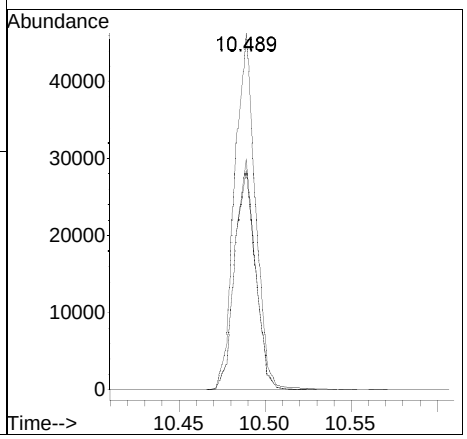


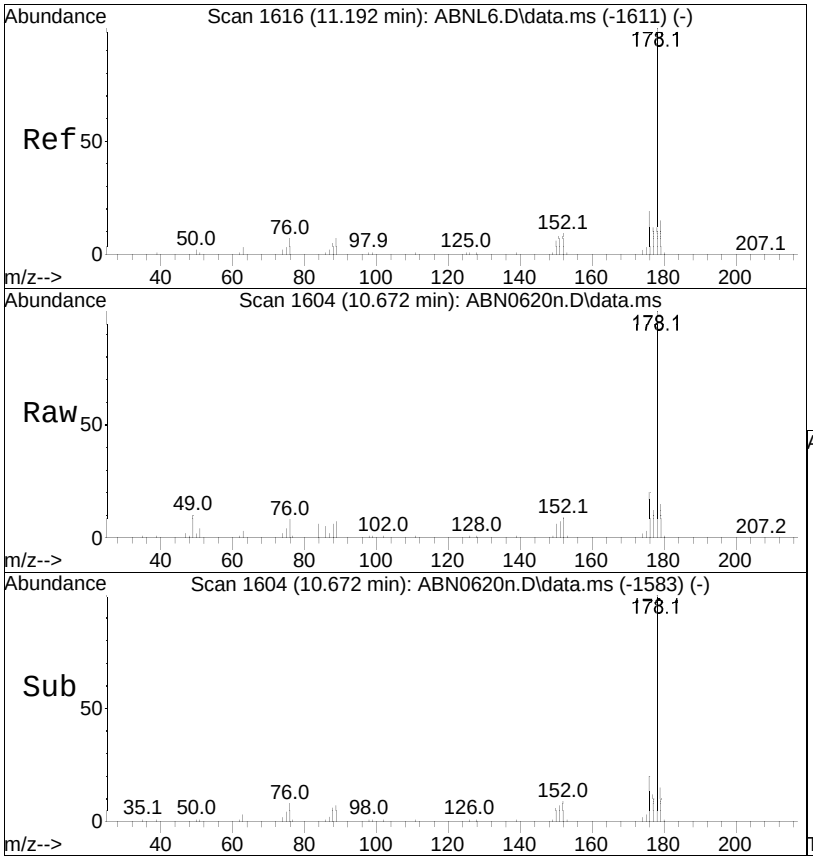


#81
Pentachlorophenol
Concen: 4.39 ug/ml
RT: 10.489 min Scan# 1573
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:266 Resp: 38935

Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.7	74.5
268	63.4	50.5	75.7

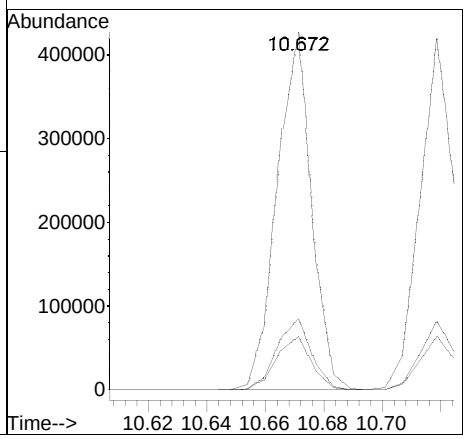


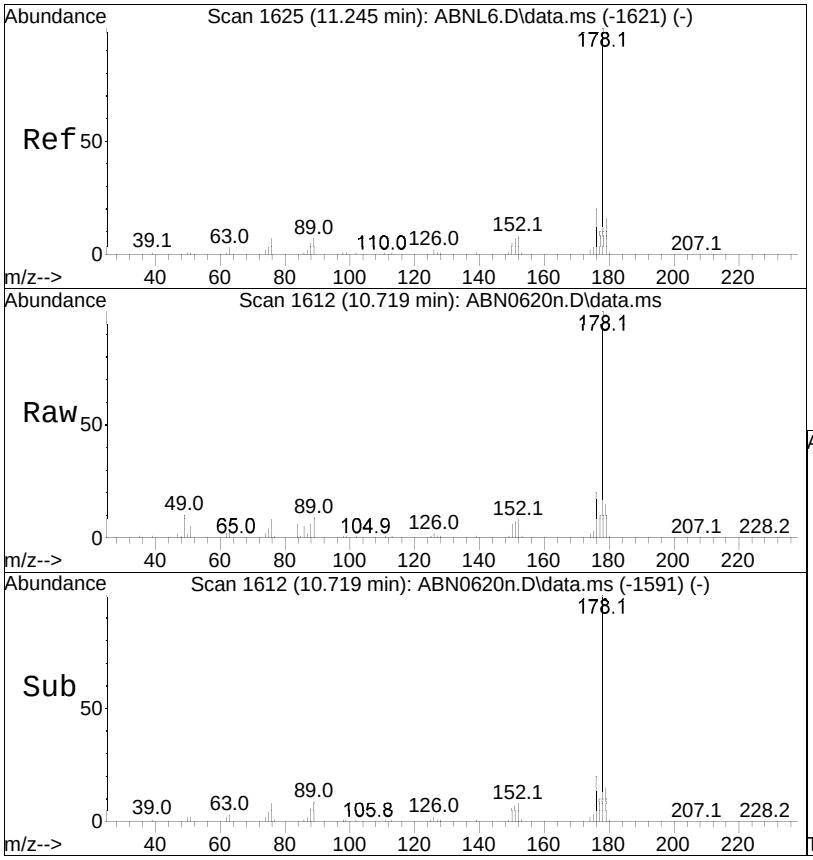


#88
Phenanthrene
Concen: 4.86 ug/ml
RT: 10.672 min Scan# 1604
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:178 Resp: 348855

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	20.1	15.4	23.2

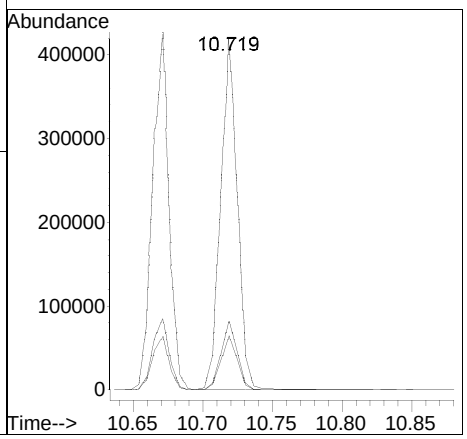


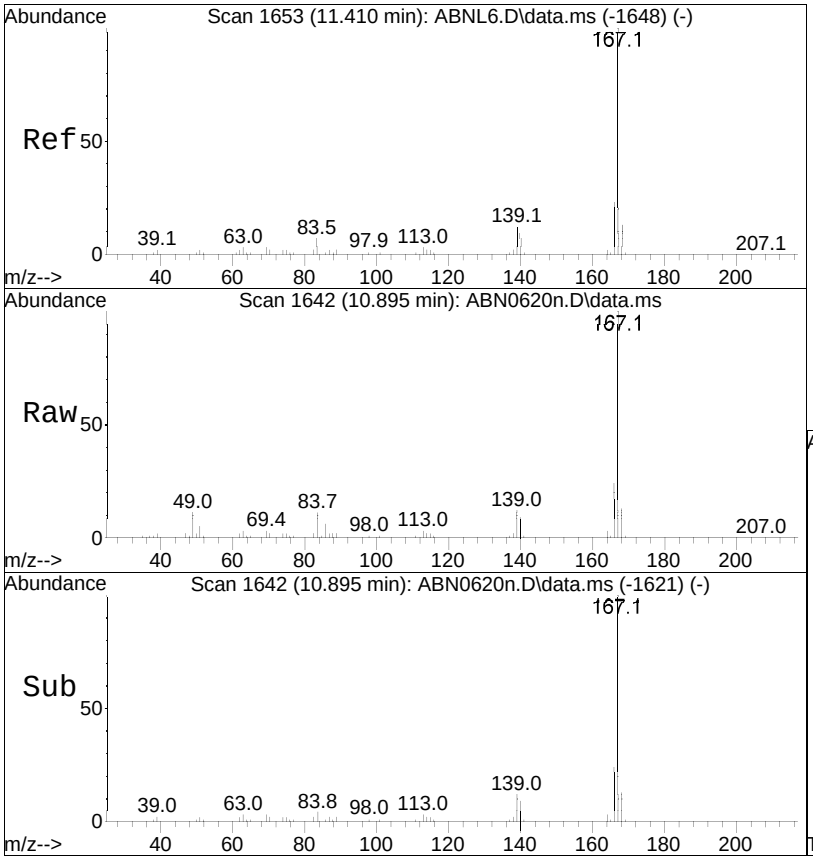


#89
Anthracene
Concen: 4.88 ug/ml
RT: 10.719 min Scan# 1612
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:178 Resp: 347486

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.1	14.6	22.0

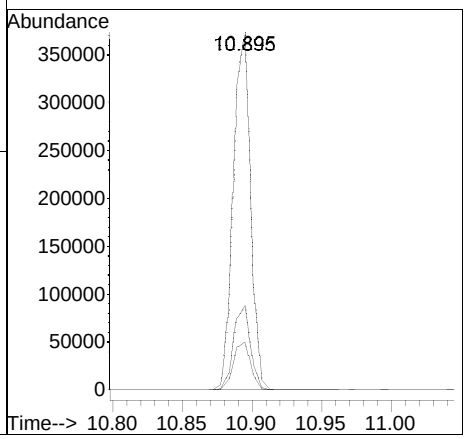


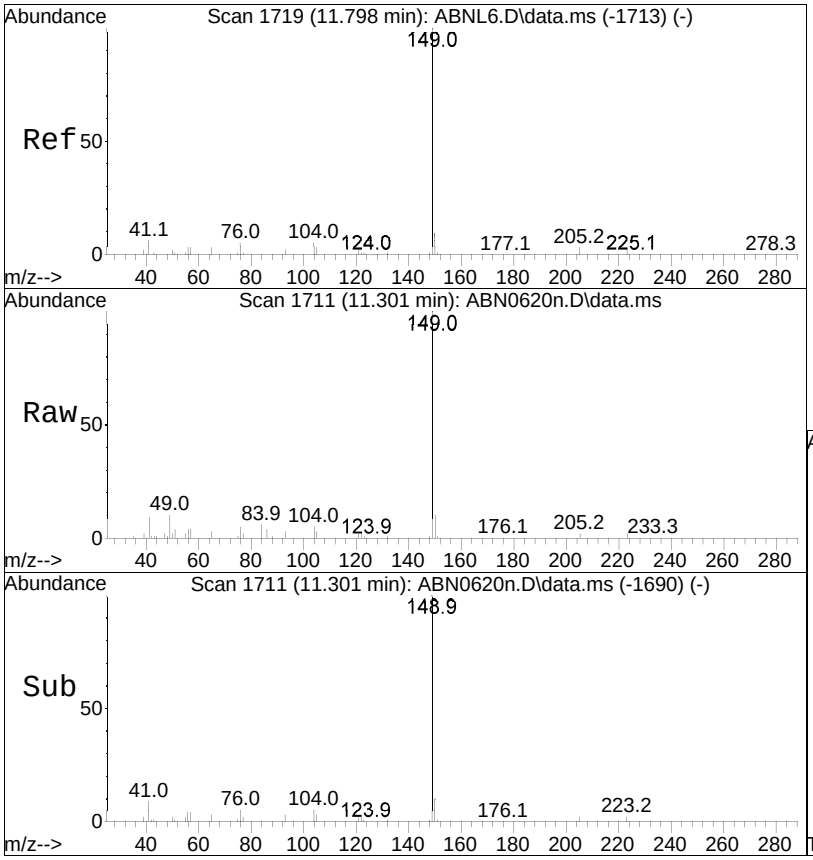


#90
Carbazole
Concen: 4.95 ug/ml
RT: 10.895 min Scan# 1642
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:167 Resp: 318224

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.3	17.4	26.0

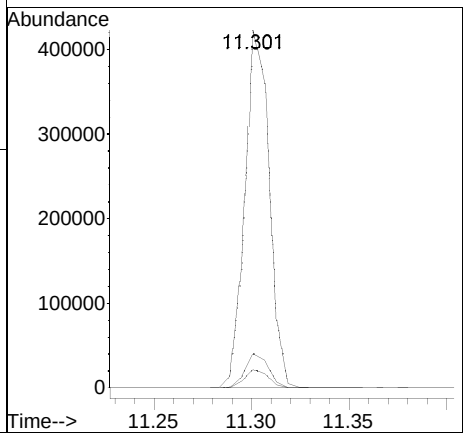


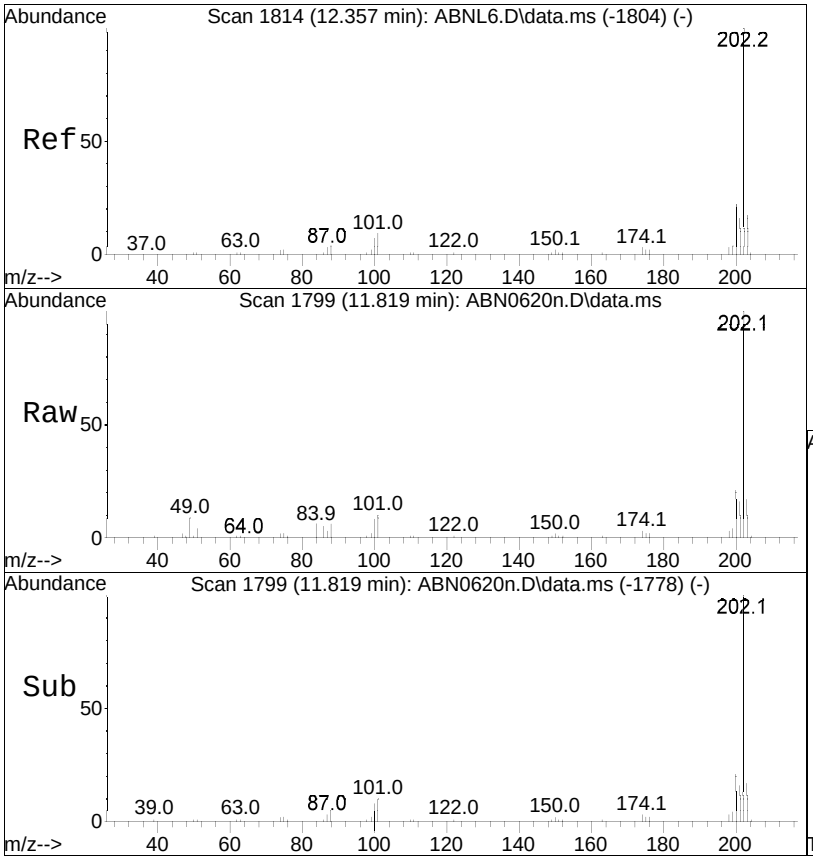


#91
Di-n-butylphthalate
Concen: 4.81 ug/ml
RT: 11.301 min Scan# 1711
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:149 Resp: 362409

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.1	4.5	6.7

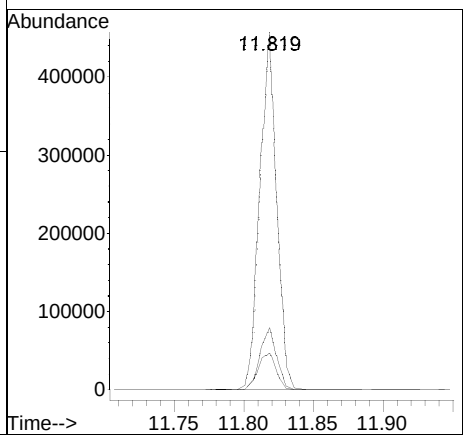


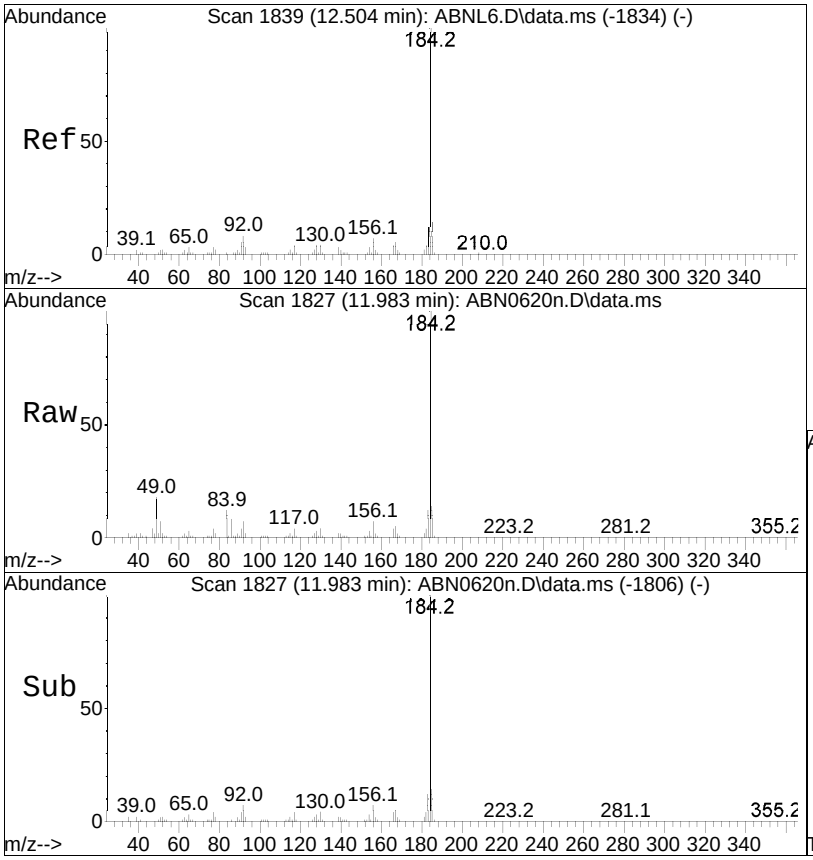


#92
Fluoranthene
Concen: 4.59 ug/ml
RT: 11.819 min Scan# 1799
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:202 Resp: 377113

Ion	Ratio	Lower	Upper
202	100		
101	11.4	13.5	20.3#
203	17.5	13.6	20.4

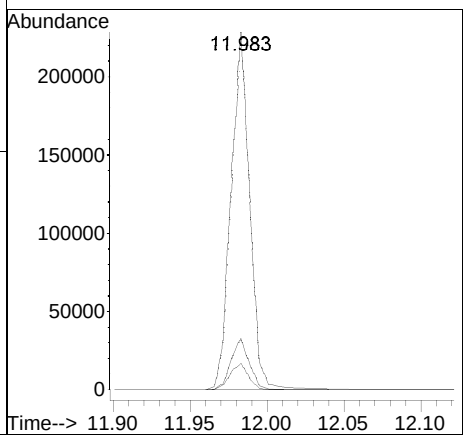


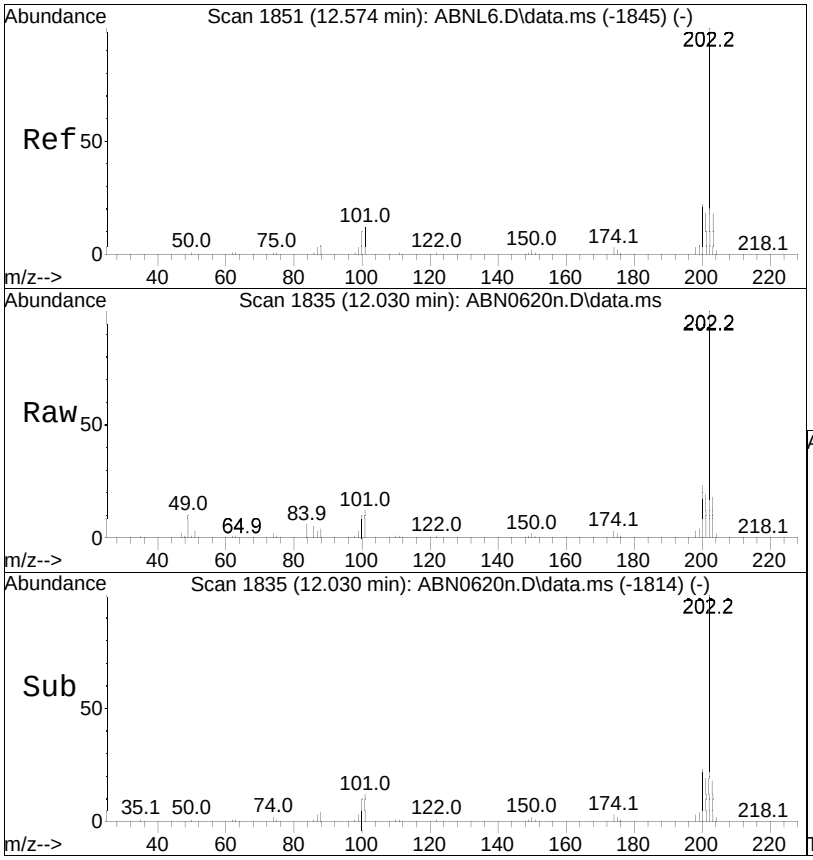


#93
Benzidine
Concen: 3.81 ug/ml
RT: 11.983 min Scan# 1827
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:184 Resp: 189784

Ion	Ratio	Lower	Upper
184	100		
92	7.5	9.1	13.7#
185	14.3	11.1	16.7

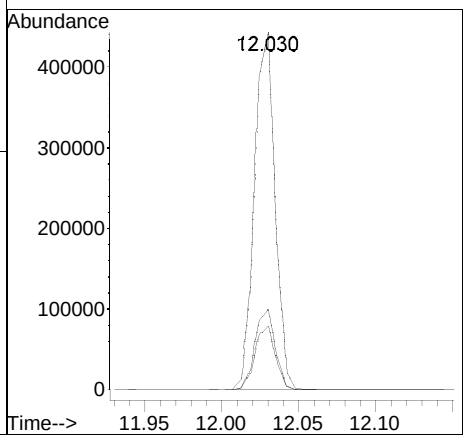


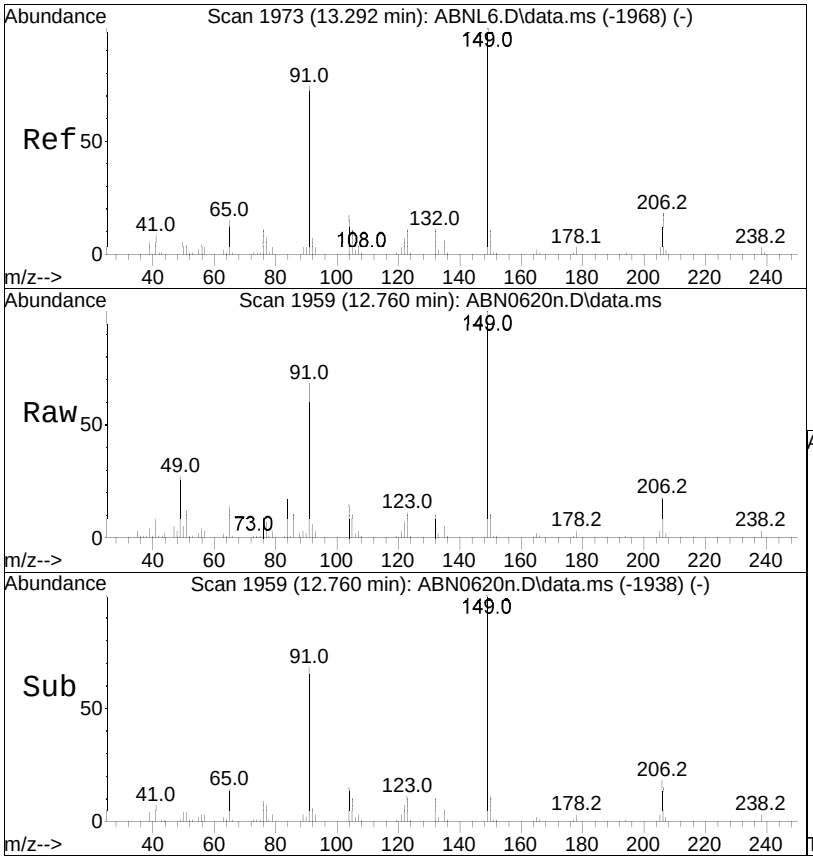


#94
Pyrene
Concen: 4.65 ug/ml
RT: 12.030 min Scan# 1835
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:202 Resp: 408252

Ion	Ratio	Lower	Upper
202	100		
200	22.3	16.7	25.1
203	17.8	14.2	21.4

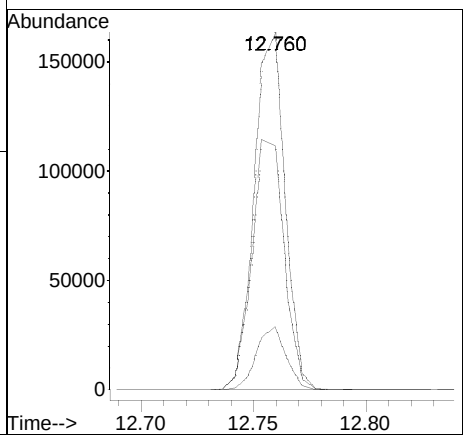


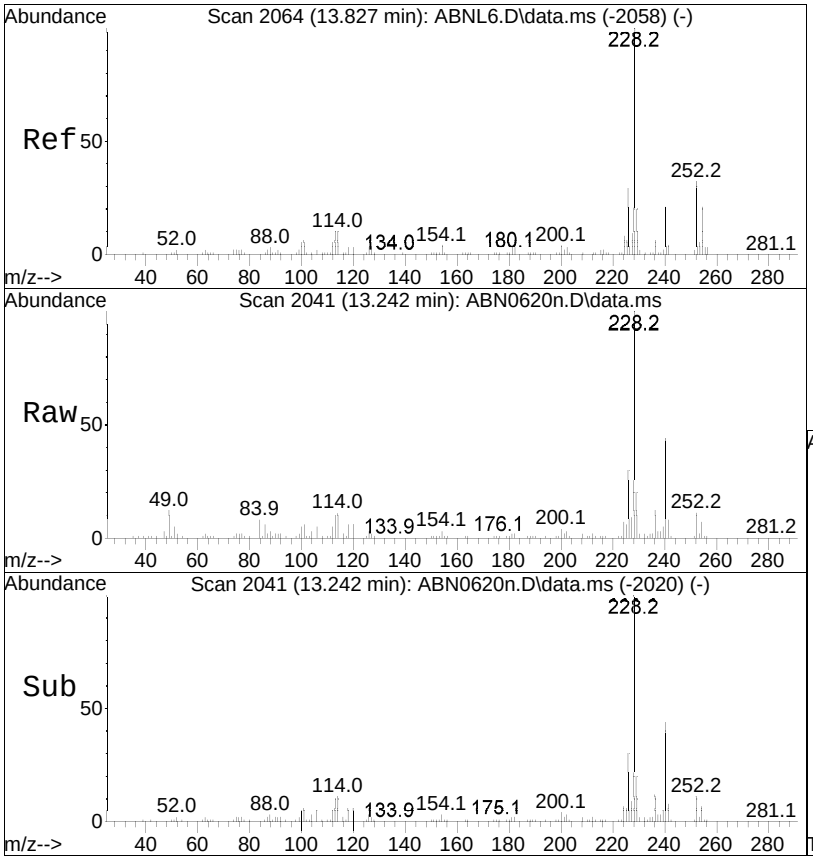


#96
Butyl benzyl phthalate
Concen: 4.36 ug/ml
RT: 12.760 min Scan# 1959
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:149 Resp: 153735

Ion	Ratio	Lower	Upper
149	100		
91	73.6	63.3	94.9
206	17.1	13.9	20.9

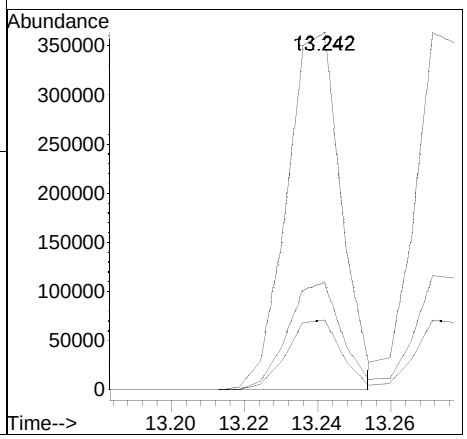


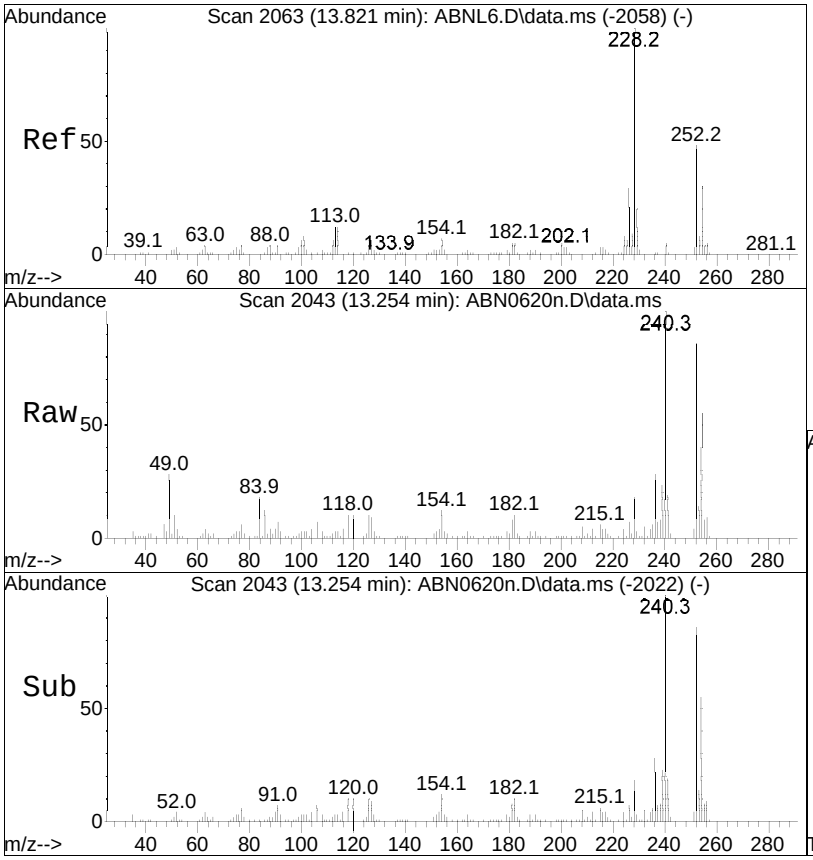


#104
Benzo(a)anthracene
Concen: 4.85 ug/ml
RT: 13.242 min Scan# 2041
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:228 Resp: 375112

Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.2	33.4
229	19.7	15.6	23.4

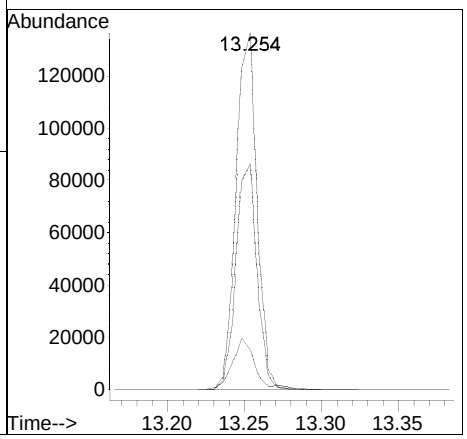


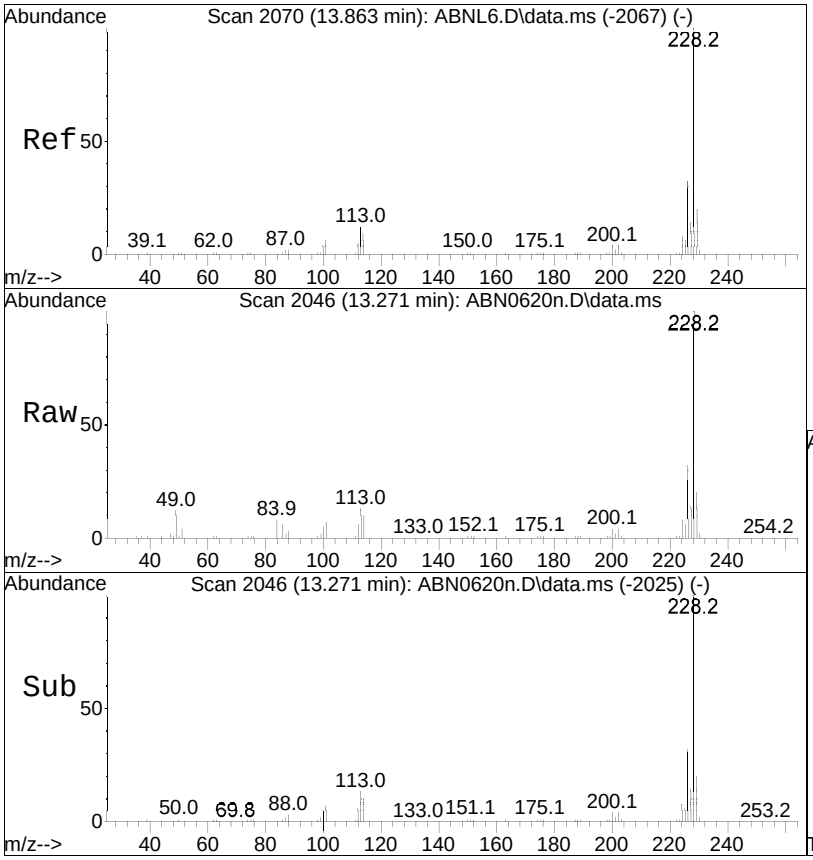


#105
3,3'-Dichlorobenzidine
Concen: 5.21 ug/ml
RT: 13.254 min Scan# 2043
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:252 Resp: 129721

Ion	Ratio	Lower	Upper
252	100		
126	15.9	14.5	21.7
254	63.5	51.2	76.8

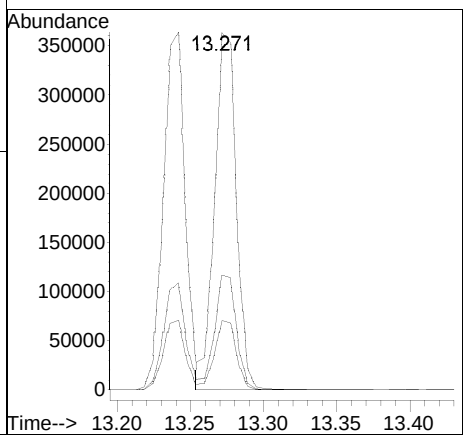


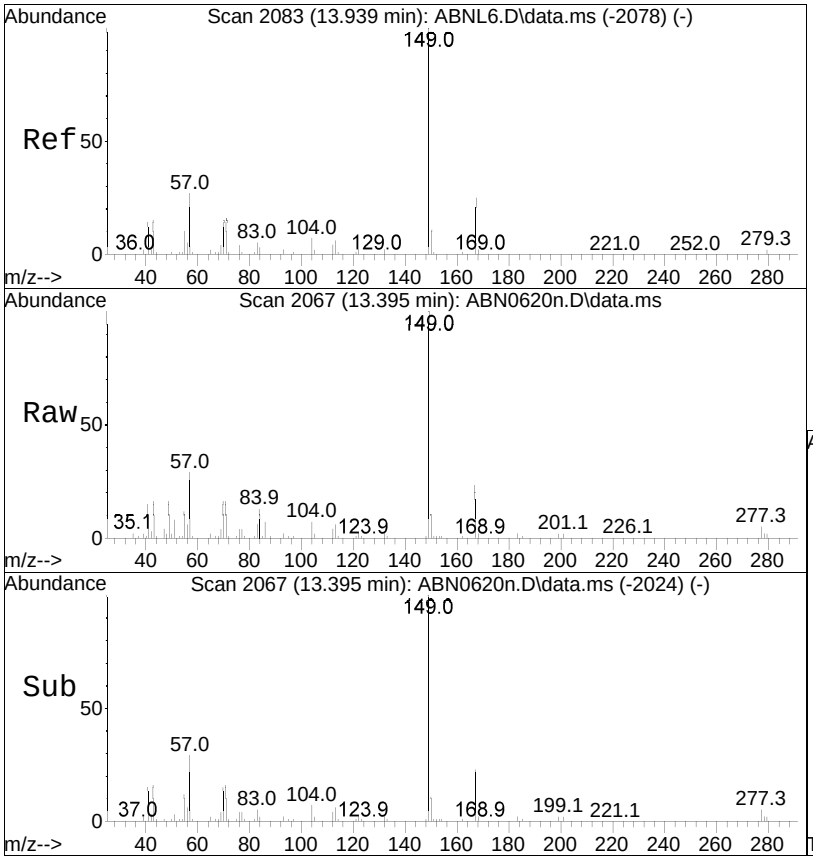


#106
Chrysene
Concen: 5.05 ug/ml
RT: 13.271 min Scan# 2046
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:228 Resp: 372742

Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.0	36.0
229	19.5	15.8	23.8

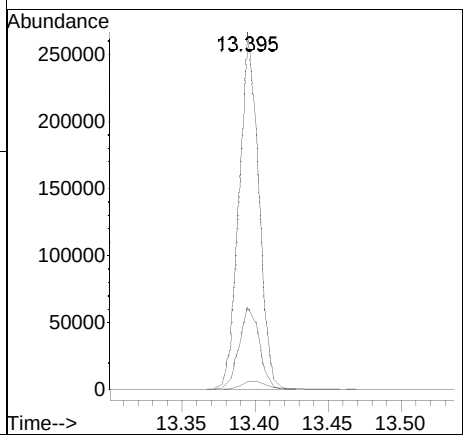


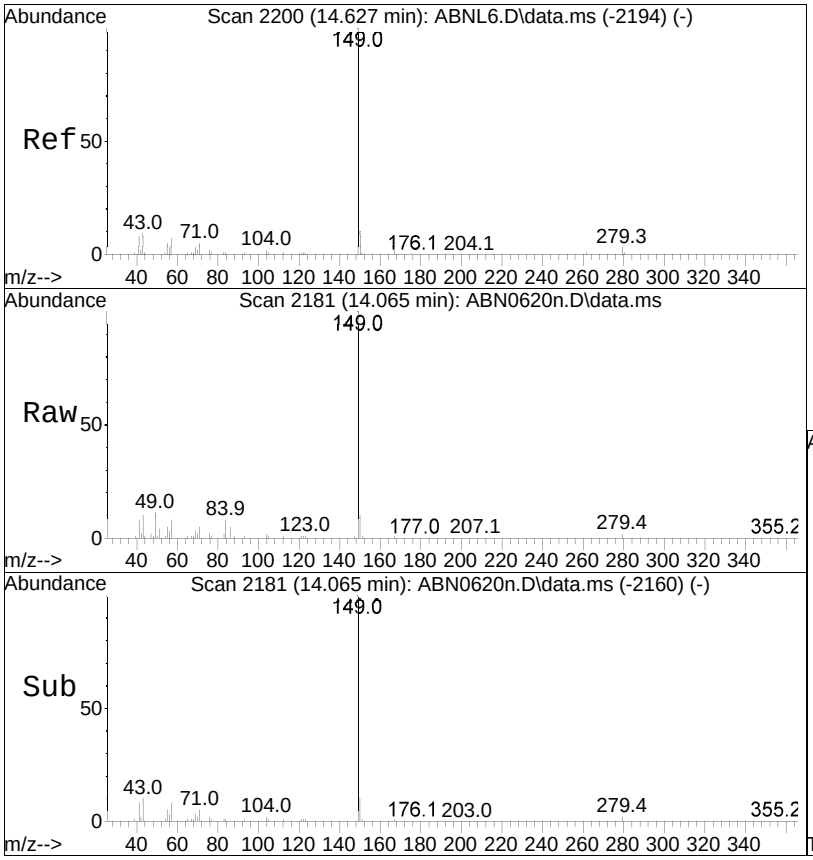


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.91 ug/ml
RT: 13.395 min Scan# 2067
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:149 Resp: 244839

Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.1	33.1
279	2.8	3.0	4.4#

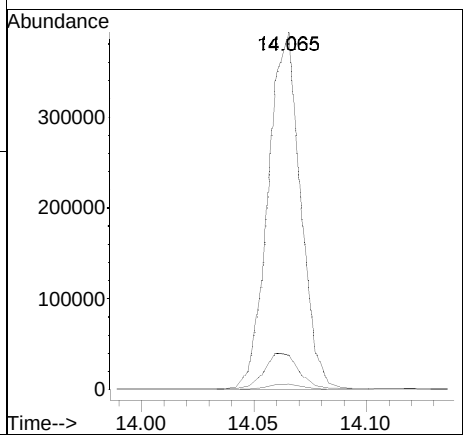


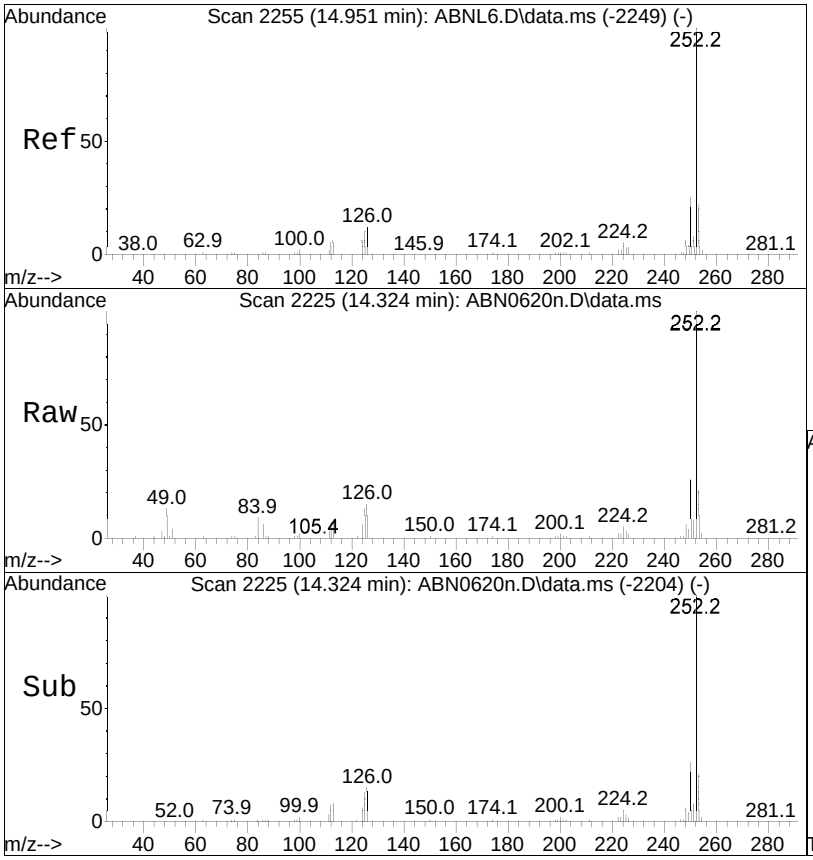


#108
Di-n-octylphthalate
Concen: 4.83 ug/ml
RT: 14.065 min Scan# 2181
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:149 Resp: 390960

Ion	Ratio	Lower	Upper
149	100		
43	10.7	18.8	28.2#
167	1.5	1.3	1.9

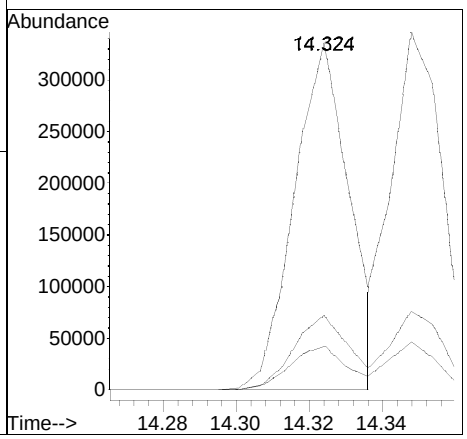


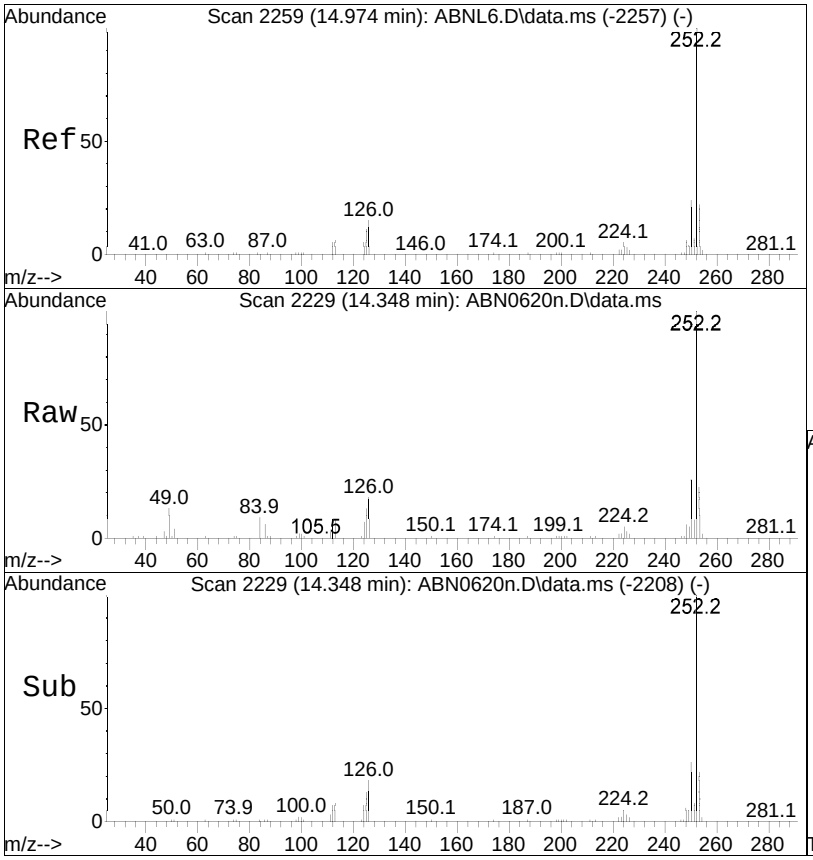


#109
Benzo(b)fluoranthene
Concen: 5.24 ug/ml
RT: 14.324 min Scan# 2225
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:252 Resp: 357800

Ion	Ratio	Lower	Upper
252	100		
125	13.1	13.3	19.9#
253	21.6	17.1	25.7

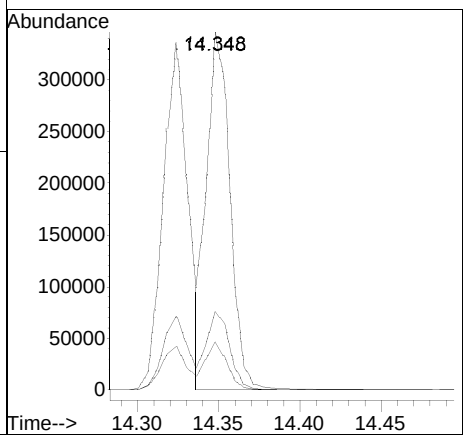


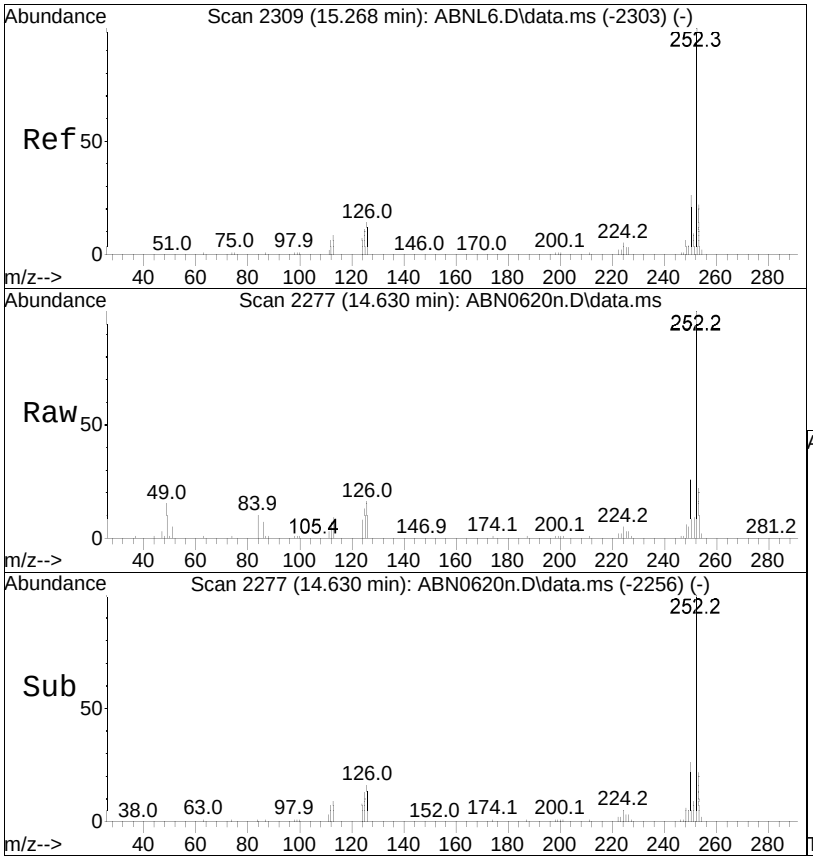


#110
Benzo(k)fluoranthene
Concen: 5.11 ug/ml
RT: 14.348 min Scan# 2229
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:252 Resp: 341770

Ion	Ratio	Lower	Upper
252	100		
125	12.4	13.0	19.6#
253	22.0	16.8	25.2

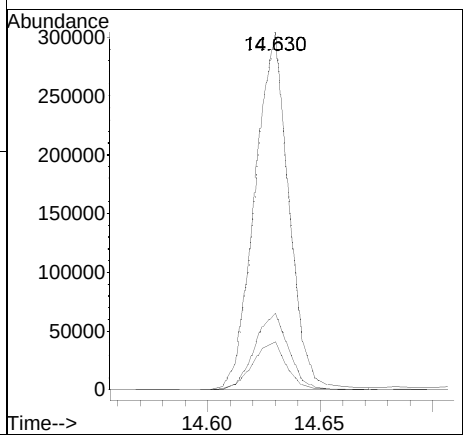


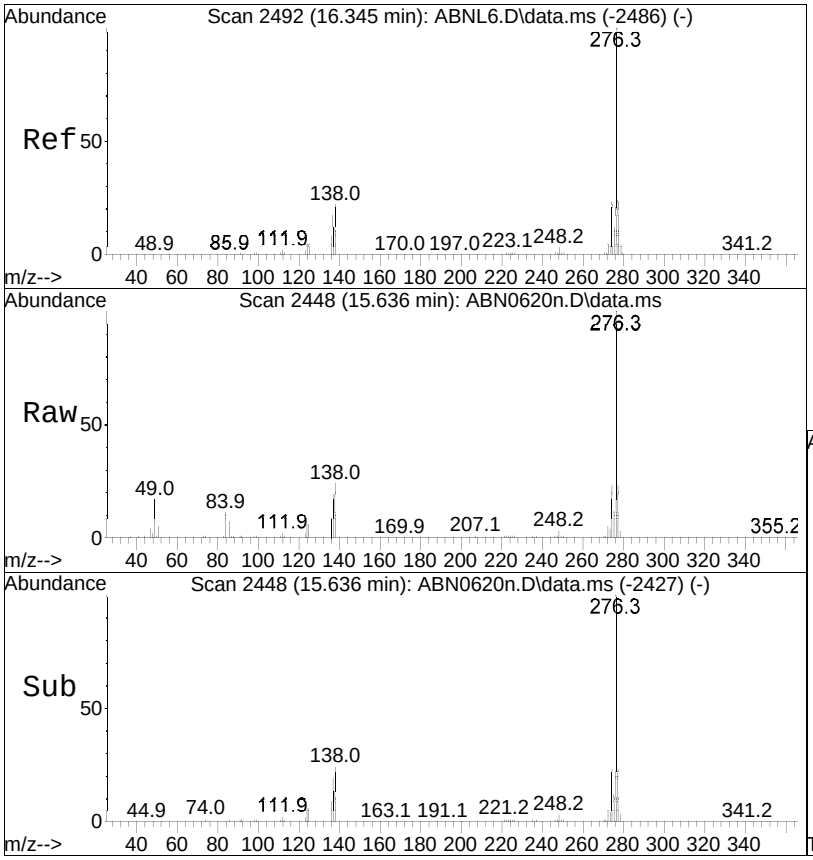


#111
Benzo(a)pyrene
Concen: 5.35 ug/ml
RT: 14.630 min Scan# 2277
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:252 Resp: 317793

Ion	Ratio	Lower	Upper
252	100		
125	13.6	14.2	21.2#
253	21.6	16.9	25.3

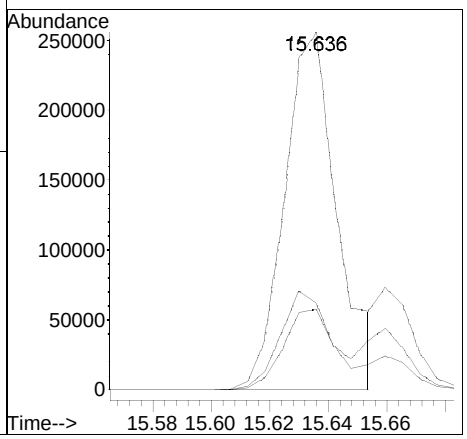


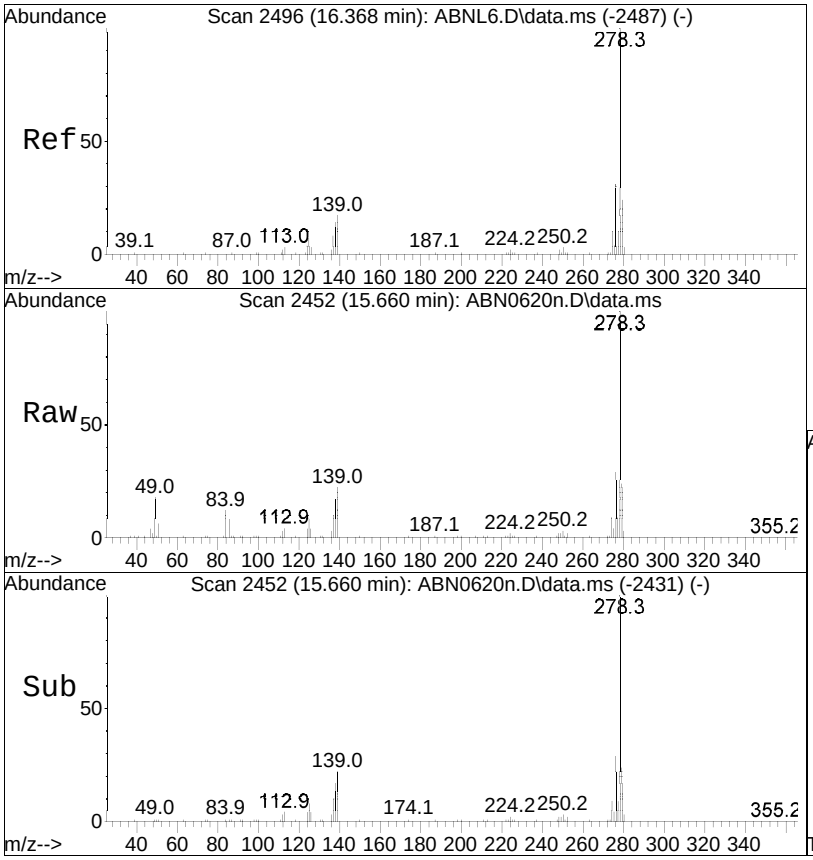


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.63 ug/mL
RT: 15.636 min Scan# 2448
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:276 Resp: 319360

Ion	Ratio	Lower	Upper
276	100		
138	26.9	25.1	37.7
277	24.0	18.6	28.0

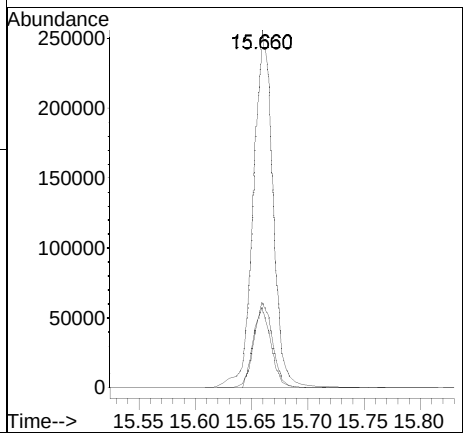


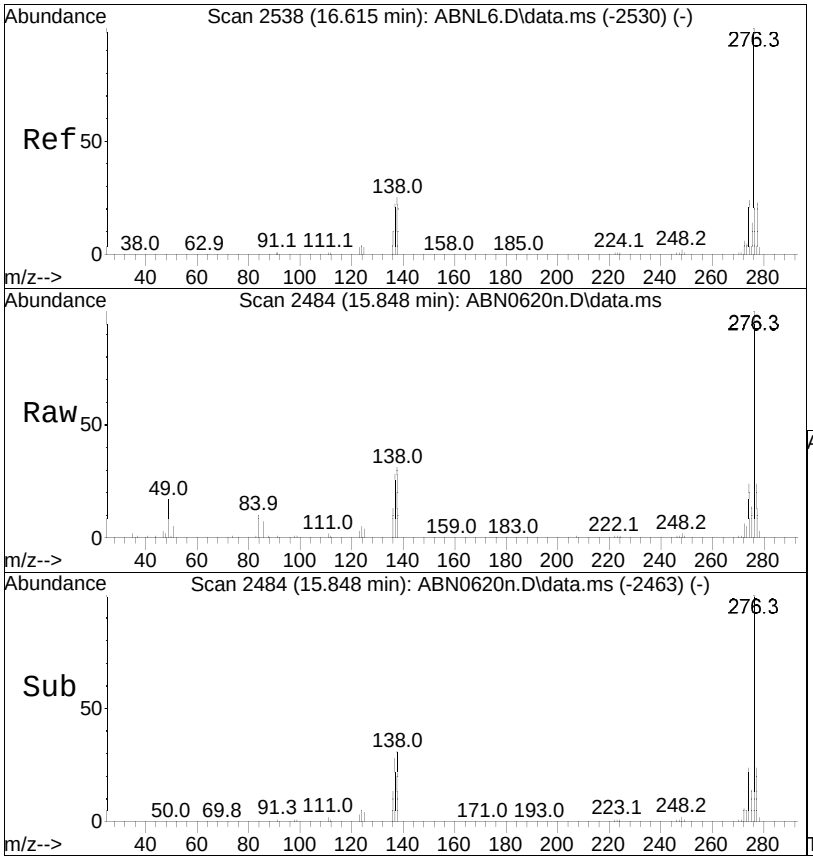


#114
Dibenzo(a,h)anthracene
Concen: 5.45 ug/ml
RT: 15.660 min Scan# 2452
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:278 Resp: 309348

Ion	Ratio	Lower	Upper
278	100		
139	21.0	20.8	31.2
279	23.1	18.3	27.5

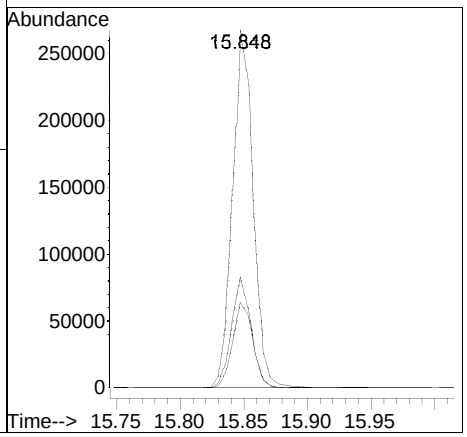




#115
Benzo(ghi)perylene
Concen: 5.42 ug/ml
RT: 15.848 min Scan# 2484
Delta R.T. 0.000 min
Lab File: ABN0620n.D
Acq: 21 Jun 2024 2:00 am

Tgt Ion:276 Resp: 299165

Ion	Ratio	Lower	Upper
276	100		
138	29.9	29.2	43.8
277	24.1	18.8	28.2



Manual Integration Report

Data Path	: I:\8270\SV107\240620NRVT\	QMethod	: FS240602SV107RVT.m
Data File	: ABN0620n.D	Operator	: SV107:sz
Date Inj'd	: 6/21/2024 2:00 am	Instrument	: SV107
Sample	: wg1937320-3,32,,ABN LVI CC	Quant Date	: 6/21/2024 2:22 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620NRVT\
Data File : AP90620n.D
Acq On : 21 Jun 2024 2:25 am
Operator : SV107:sz
Sample : wg1937320-4,32,,AP9 LVI CCV Lot # 10340
Misc : wg1937320,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 21 02:48:38 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:49:04 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	146	0.00
28	T	Benzaldehyde		1.024	1.034	-1.0	157	0.00
29	T	Acetophenone		1.770	1.745	1.4	149	0.00
30	T	m-Toluidine		1.599	1.735	-8.5	154	0.00
31	T	2-Chloroaniline		1.546	1.545	0.1	150	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	139	0.00
55	T	a-Terpineol		0.276	0.307	-11.2	165	0.00
56	T	3-Chloroaniline		0.147	0.159	-8.2	158	0.00
57	T	2,6-Dichlorophenol		0.290	0.307	-5.9	152	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.138	-14.0	172	0.00
59	T	Caprolactam		0.149	0.158	-6.0	155	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.370	8.0	139	0.00
61	T	Biphenyl		0.929	0.867	6.7	141	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	133	0.00
83	T	Dichloran	*	5.000	5.270	-5.4	169	0.00
84	T	Pentachloronitrobenzene	*	5.000	5.112	-2.2	152	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	125	0.00
98	T	Diphenamid		0.445	0.448	-0.7	129	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : AP90620n.D
Acq On : 21 Jun 2024 2:25 am
Operator : SV107:sz
Sample : wg1937320-4,32,,AP9 LVI CCV Lot # 10340
Misc : wg1937320,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 21 02:48:38 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:49:04 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.954	152	64708	4.000	ug/ml	0.00
54) IS2_Naphthalene-d8	7.442	136	235329	4.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	9.219	164	132909	4.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	10.648	188	268104	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.313	105	83630	5.049	ug/ml	100
29) Acetophenone	6.495	105	141117	4.928	ug/ml#	86
30) m-Toluidine	6.601	106	140305	5.424	ug/ml	93
31) 2-Chloroaniline	7.019	127	124990	4.996	ug/ml	95
55) a-Terpineol	7.531	59	90186	5.546	ug/ml#	84
56) 3-Chloroaniline	7.542	65	46754	5.392	ug/ml	81
57) 2,6-Dichlorophenol	7.566	162	90317	5.295	ug/ml#	89
58) 1-chloro-2-nitrobenzene	7.836	111	40611	5.697	ug/ml#	1
59) Caprolactam	7.878	55	46526	5.303	ug/ml#	77
60) 1,2,4,5-Tetrachloroben...	8.372	216	108944	4.606	ug/ml	98
61) Biphenyl	8.678	154	255121	4.668	ug/ml	99
83) Dichloran	10.360	206	23780	5.270	ug/ml#	73
84) Pentachloronitrobenzene	10.501	237	25370	5.112	ug/ml	86
98) Diphenamid	11.571	167	150228	5.037	ug/ml	88

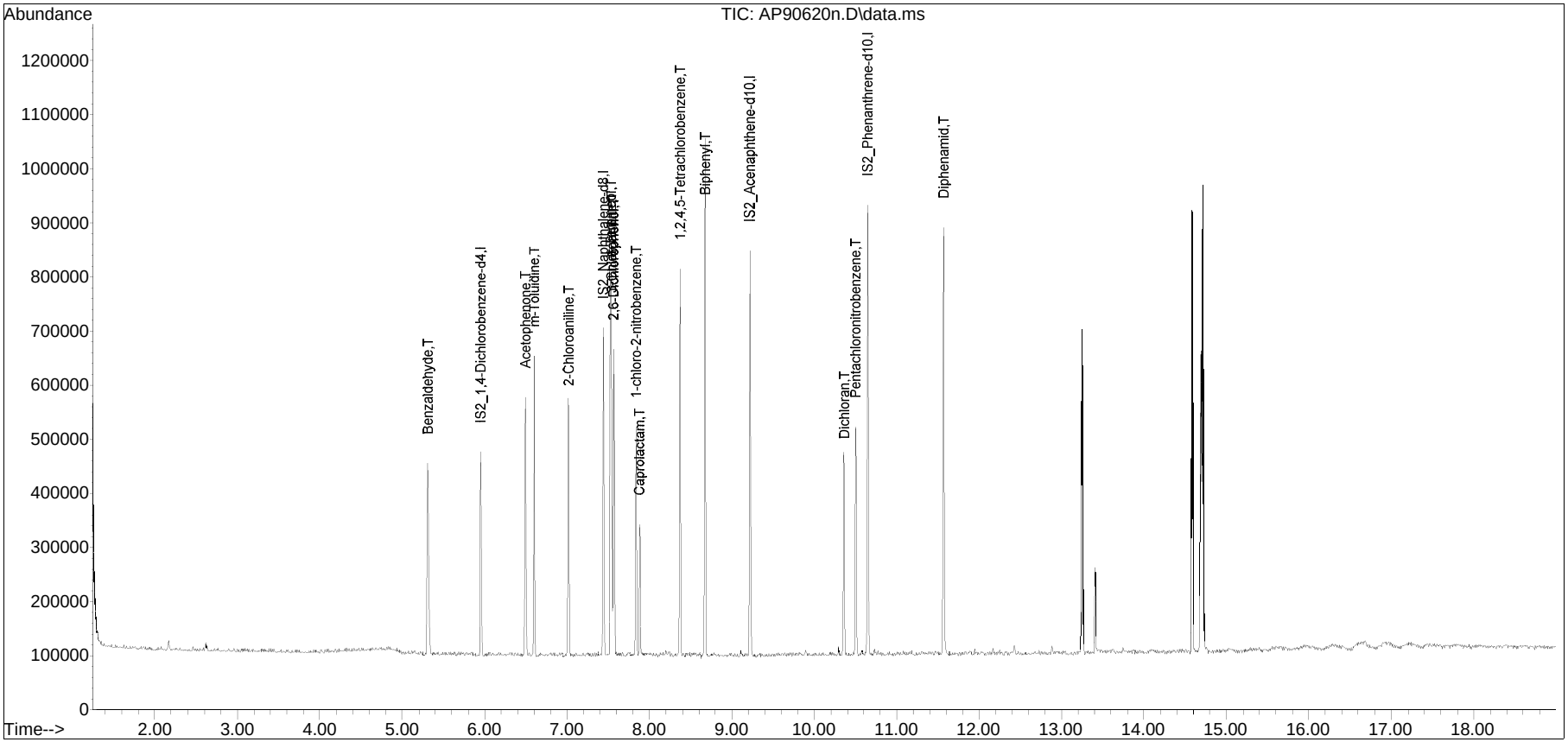
(#) = qualifier out of range (m) = manual integration (+) = signals summed

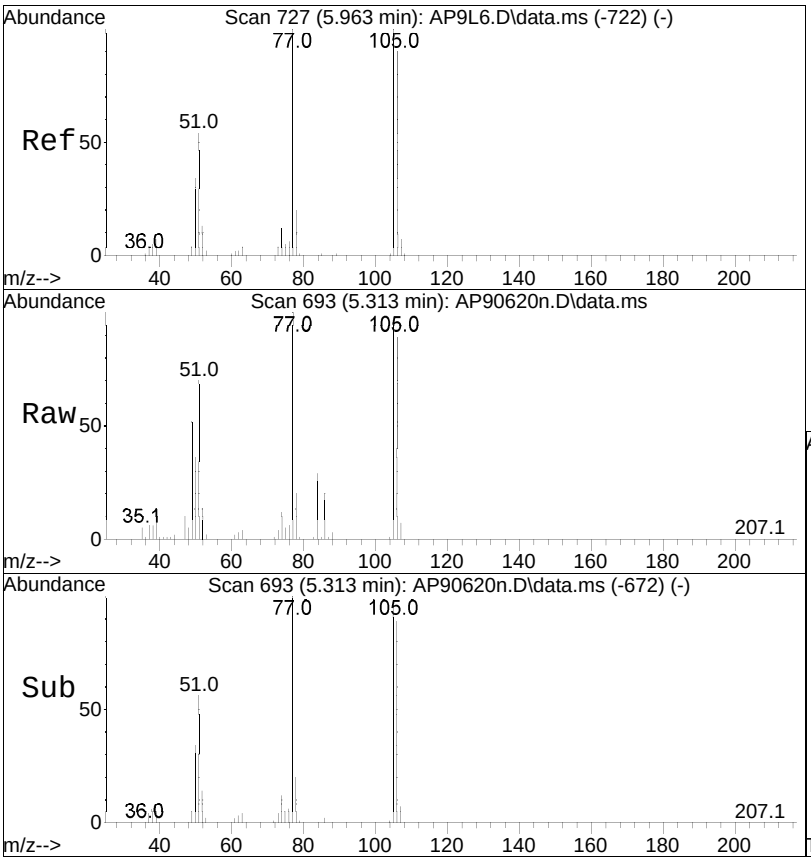
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : AP90620n.D
Acq On : 21 Jun 2024 2:25 am
Operator : SV107:sz
Sample : wg1937320-4,32,,AP9 LVI CCV Lot # 10340
Misc : wg1937320,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 21 02:48:38 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:49:04 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

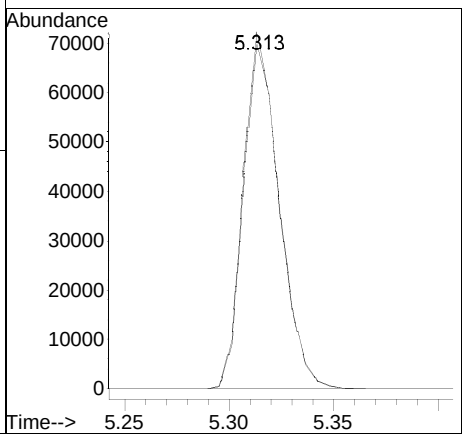


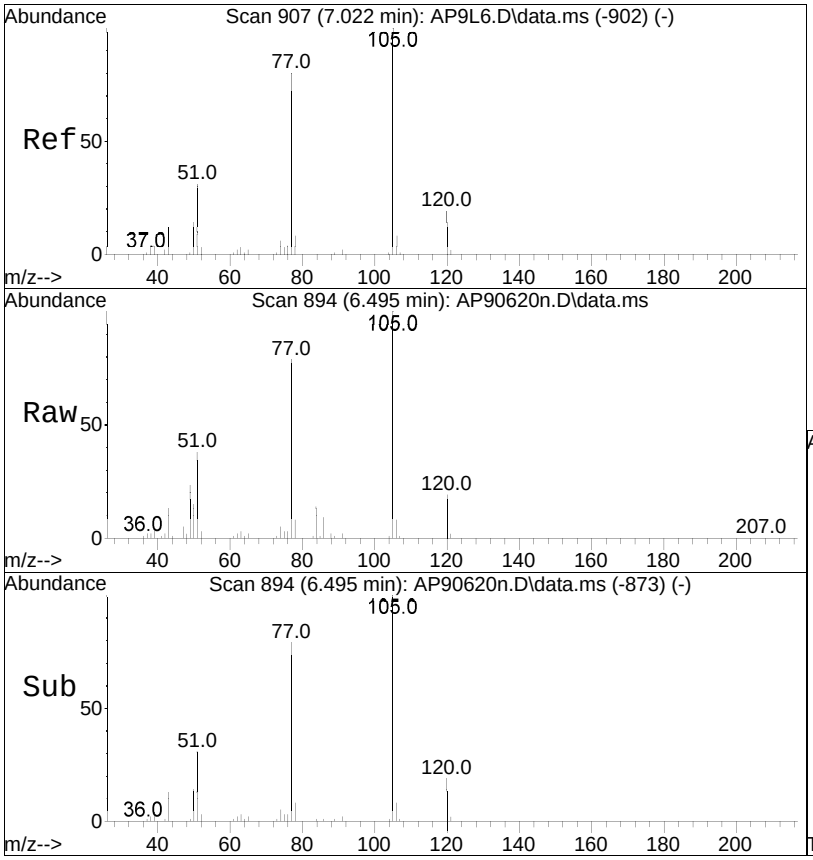


#28
Benzaldehyde
Concen: 5.05 ug/ml
RT: 5.313 min Scan# 693
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:105 Resp: 83630

Ion	Ratio	Lower	Upper
105	100		
77	102.7	82.2	123.4

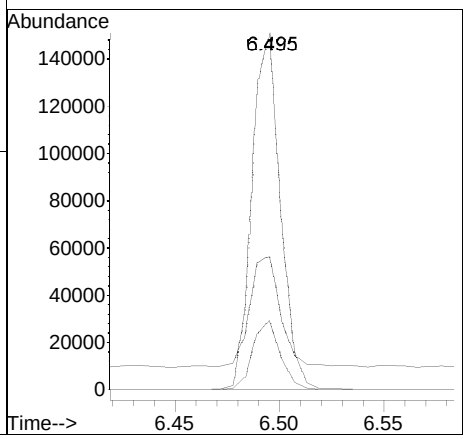


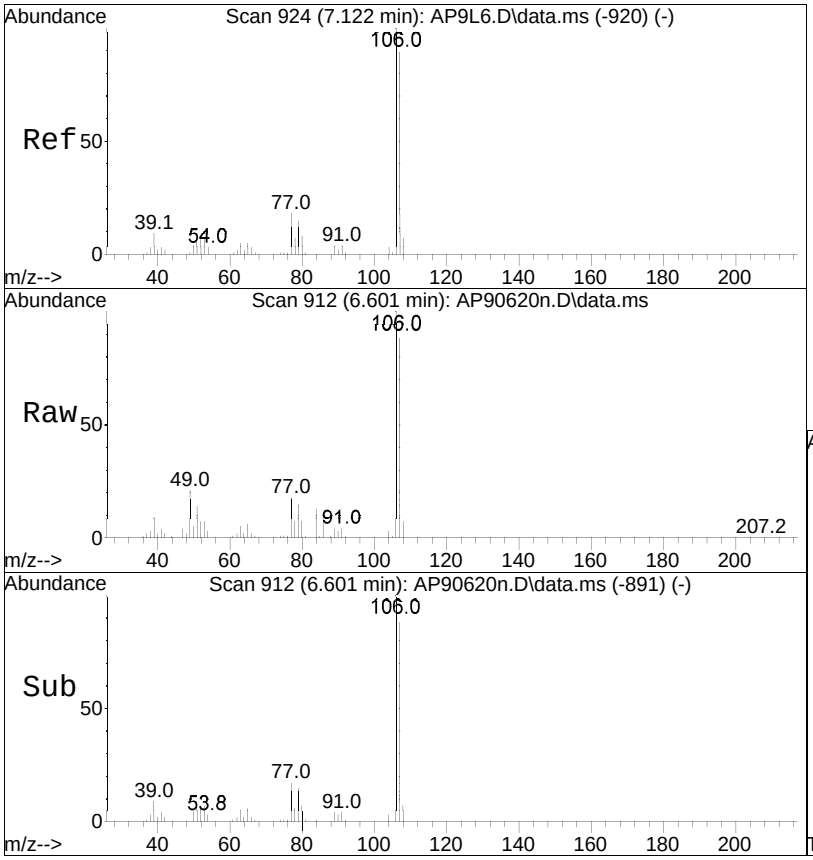


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 6.495 min Scan# 894
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:105 Resp: 141117

Ion	Ratio	Lower	Upper
105	100		
120	18.7	20.5	30.7#
51	34.4	34.9	52.3#

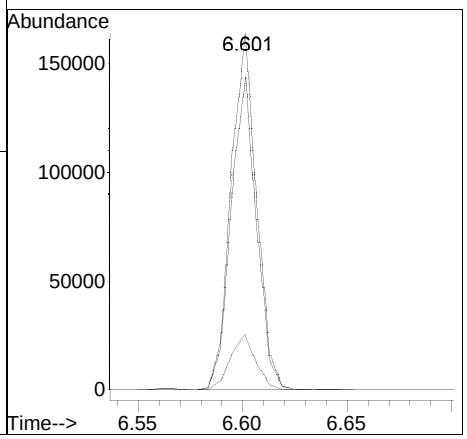


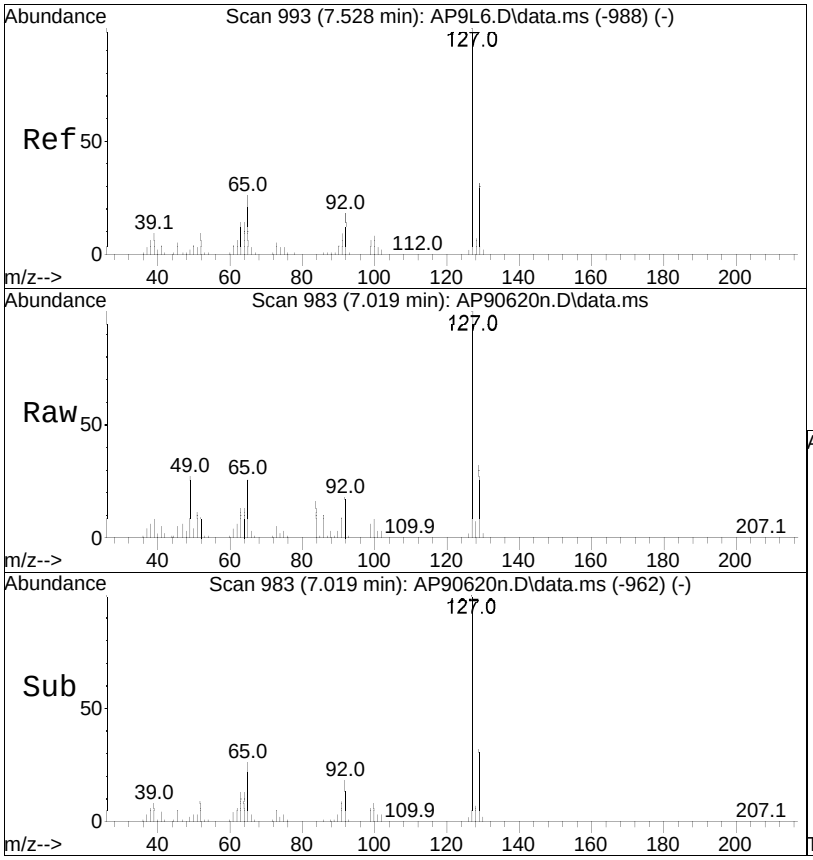


#30
m-Toluidine
Concen: 5.42 ug/ml
RT: 6.601 min Scan# 912
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:106 Resp: 140305

Ion	Ratio	Lower	Upper
106	100		
107	87.0	75.7	113.5
79	15.4	11.8	17.8

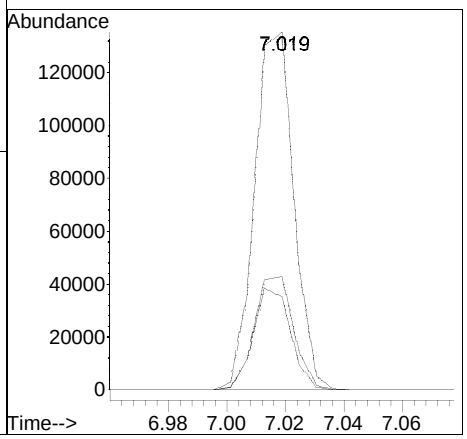


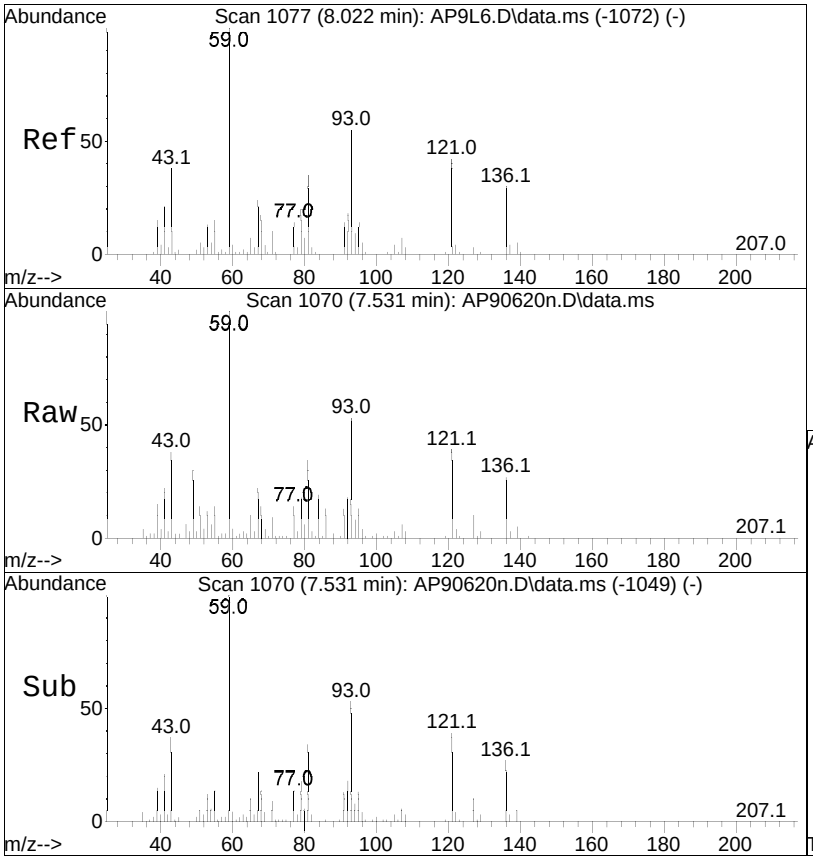


#31
2-Chloroaniline
Concen: 5.00 ug/ml
RT: 7.019 min Scan# 983
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:127 Resp: 124990

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.9	38.9
65	27.3	26.3	39.5

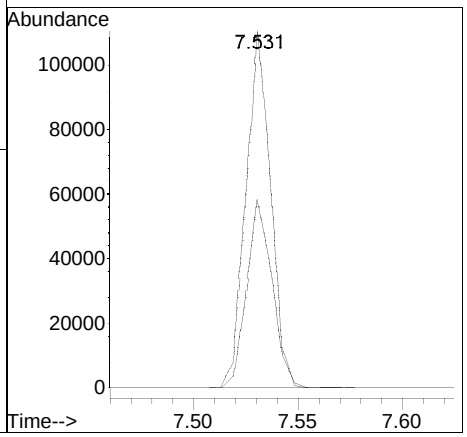


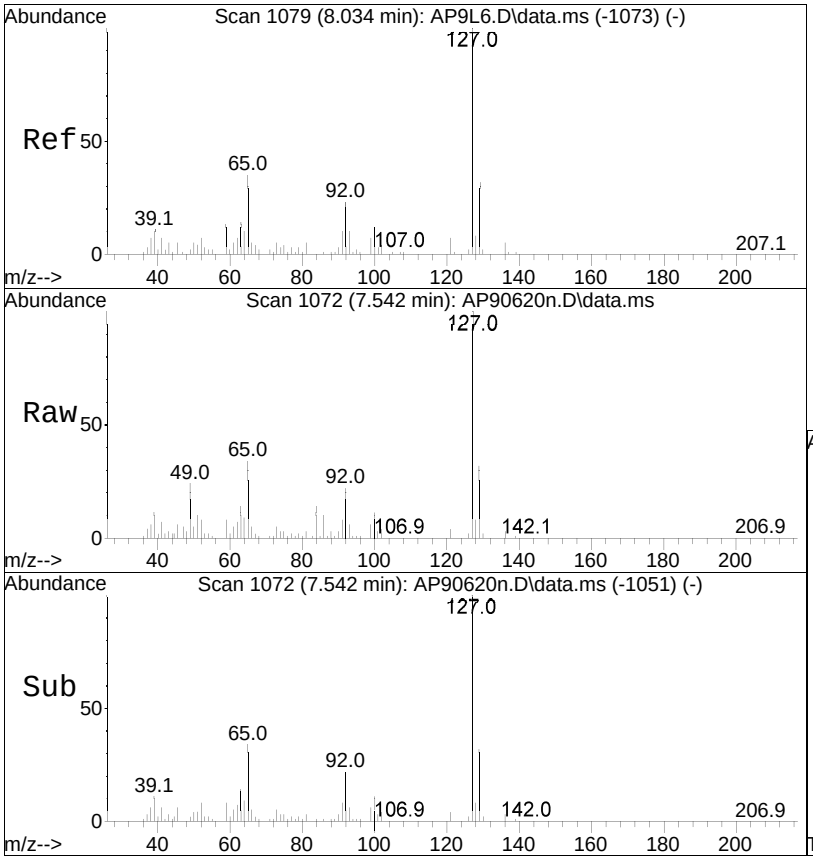


#55
a-Terpineol
Concen: 5.55 ug/ml
RT: 7.531 min Scan# 1070
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion: 59 Resp: 90186

Ion	Ratio	Lower	Upper
59	100		
93	54.8	35.6	53.4#

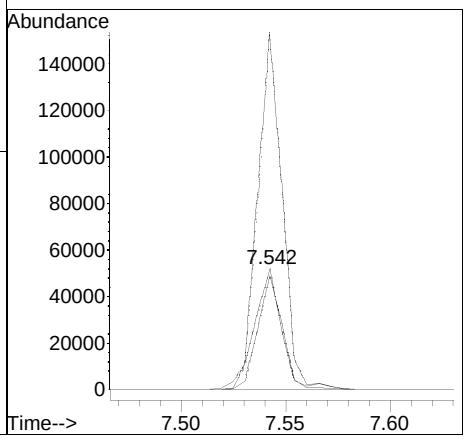


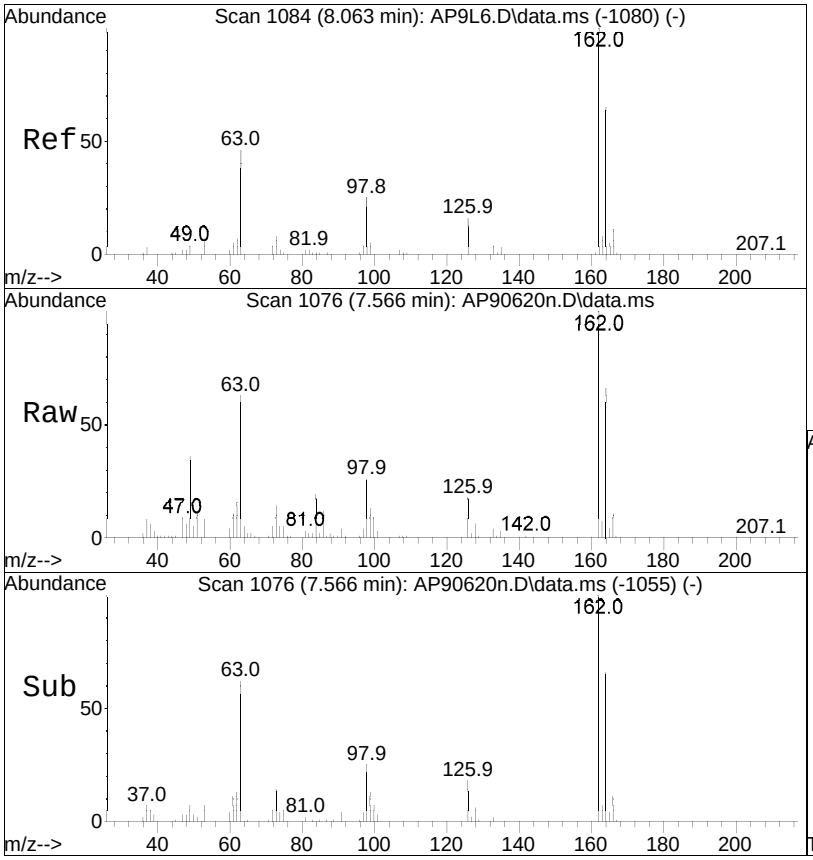


#56
3-Chloroaniline
Concen: 5.39 ug/ml
RT: 7.542 min Scan# 1072
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion: 65 Resp: 46754

Ion	Ratio	Lower	Upper
65	100		
127	263.3	243.2	364.8
129	84.5	78.8	118.2

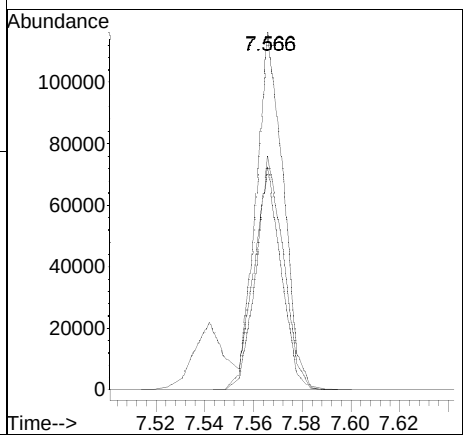


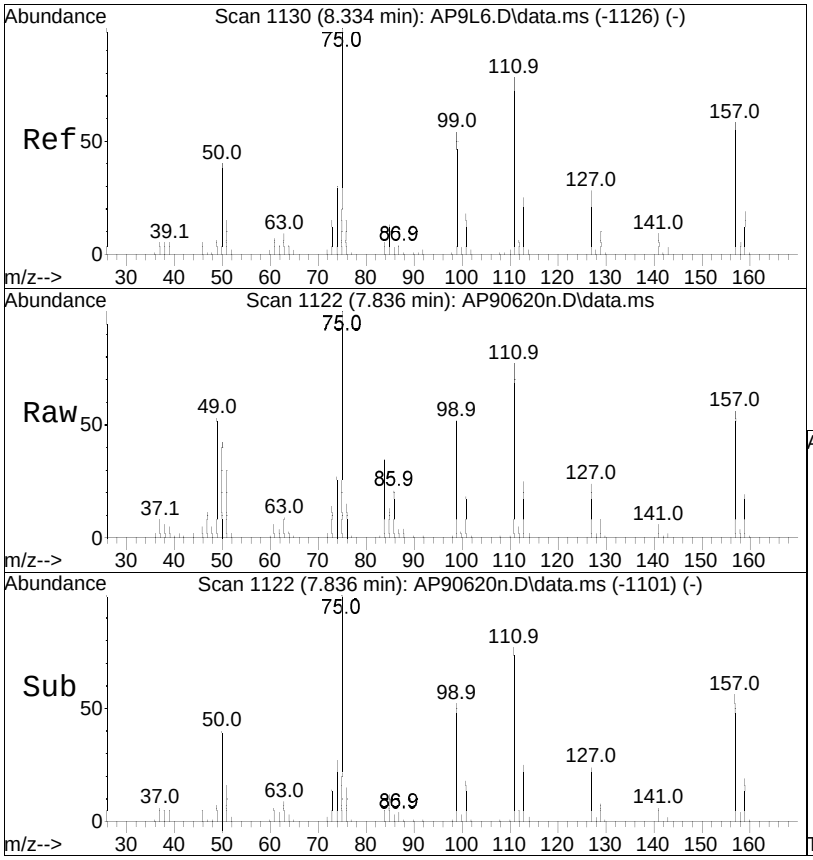


#57
2,6-Dichlorophenol
Concen: 5.29 ug/ml
RT: 7.566 min Scan# 1076
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:162 Resp: 90317

Ion	Ratio	Lower	Upper
162	100		
164	64.8	51.1	76.7
63	59.5	60.8	91.2#

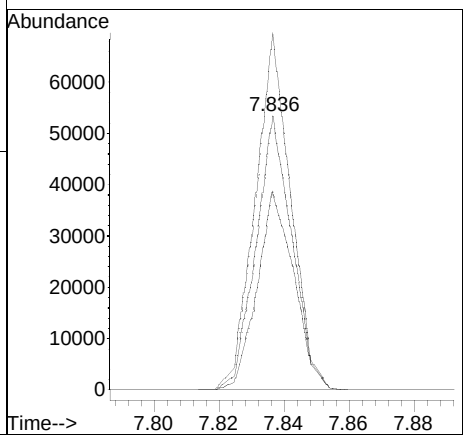


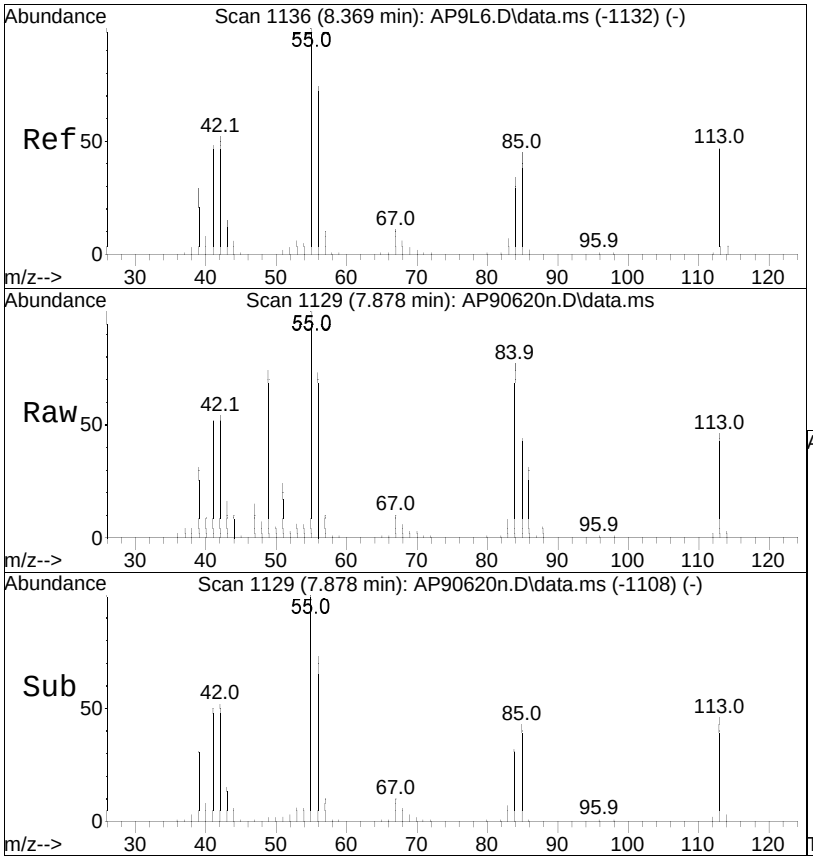


#58
1-chloro-2-nitrobenzene
Concen: 5.70 ug/ml
RT: 7.836 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:111 Resp: 40611

Ion	Ratio	Lower	Upper
111	100		
157	74.3	0.0	0.0#
75	128.9	28.2	42.2#

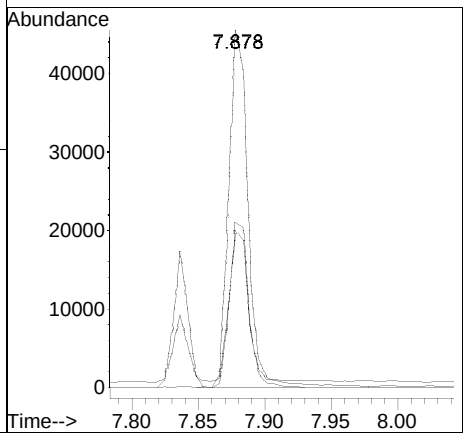


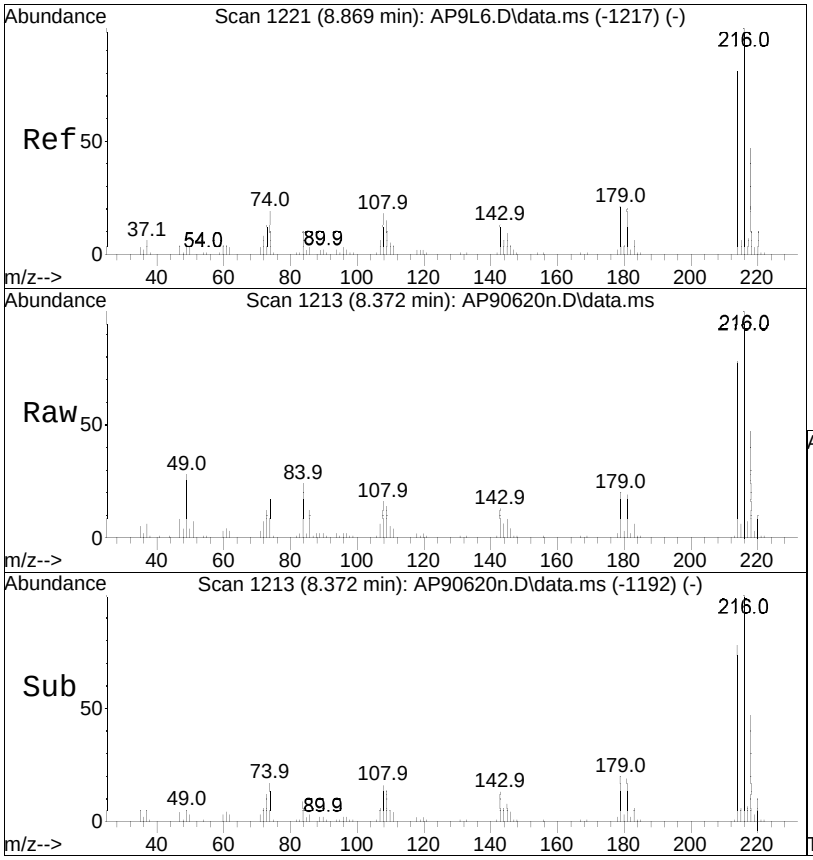


#59
Caprolactam
Concen: 5.30 ug/ml
RT: 7.878 min Scan# 1129
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion: 55 Resp: 46526

Ion	Ratio	Lower	Upper
55	100		
85	41.9	19.8	29.6#
113	45.8	29.6	44.4#

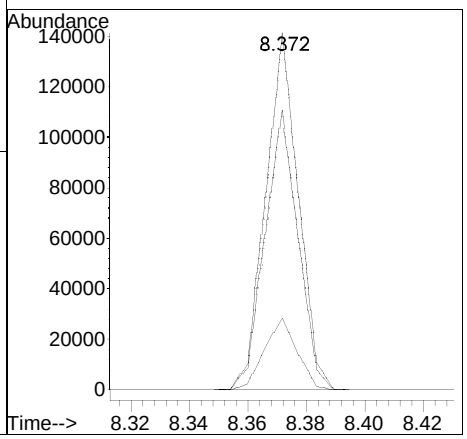


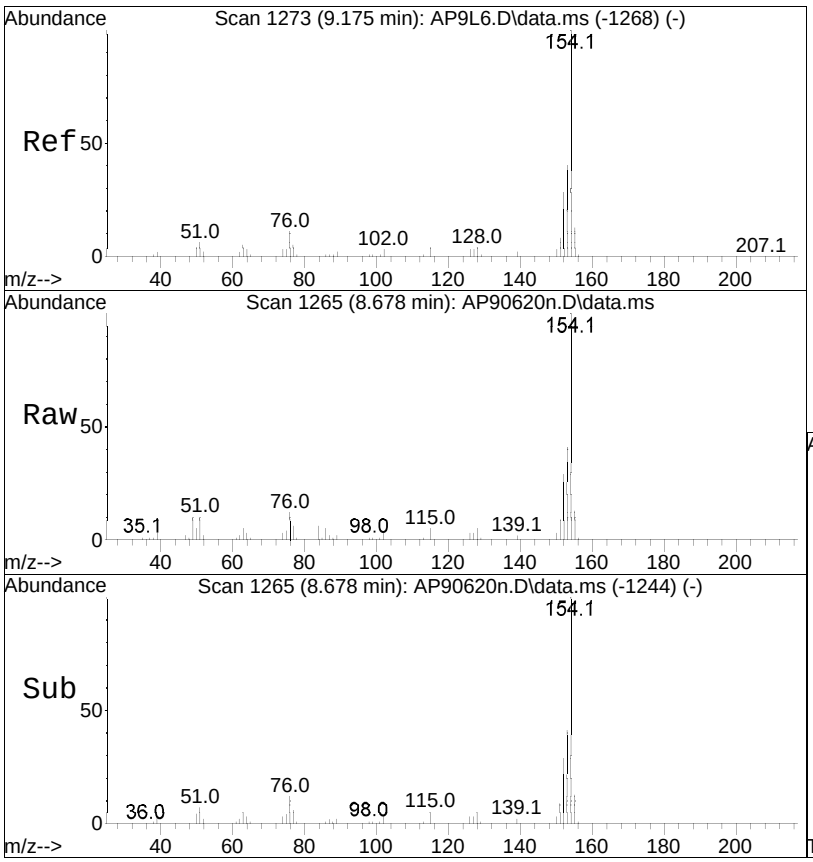


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.61 ug/ml
RT: 8.372 min Scan# 1213
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:216 Resp: 108944

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.7	95.5
179	20.3	19.0	28.6

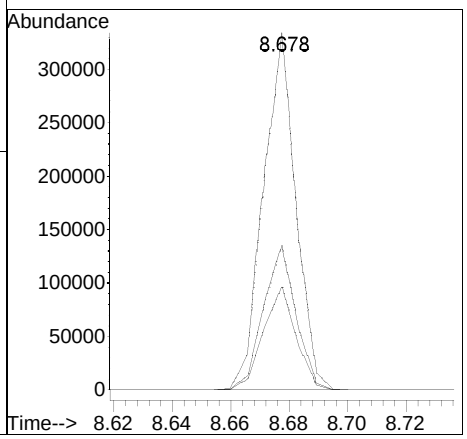


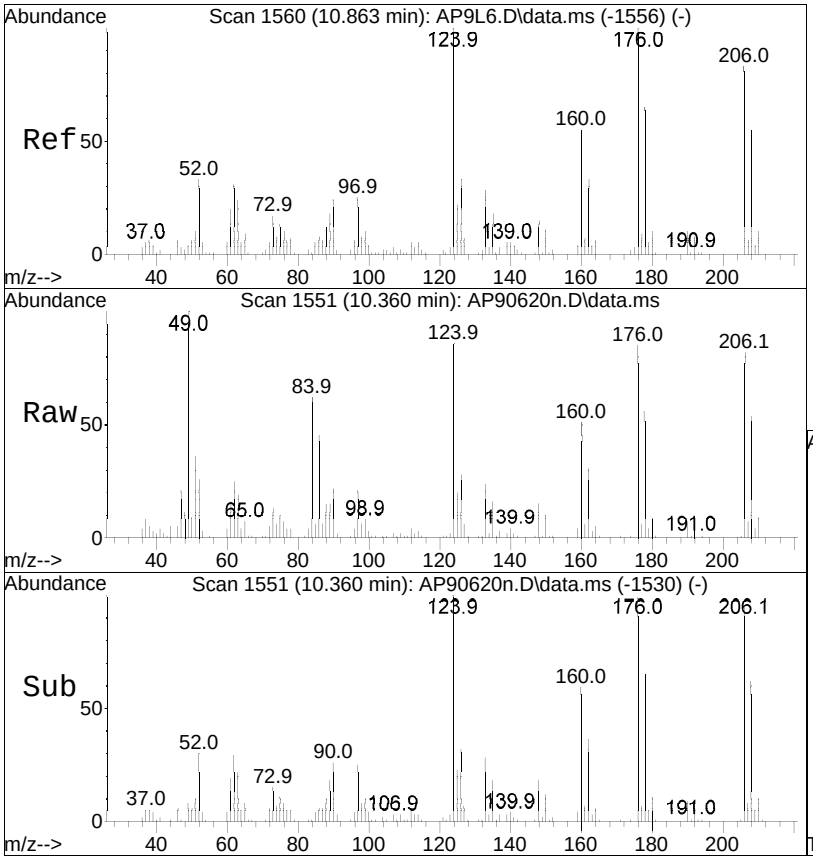


#61
Biphenyl
Concen: 4.67 ug/ml
RT: 8.678 min Scan# 1265
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:154 Resp: 255121

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	29.3	22.5	33.7

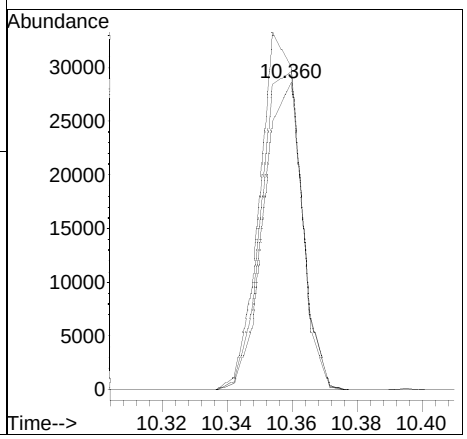


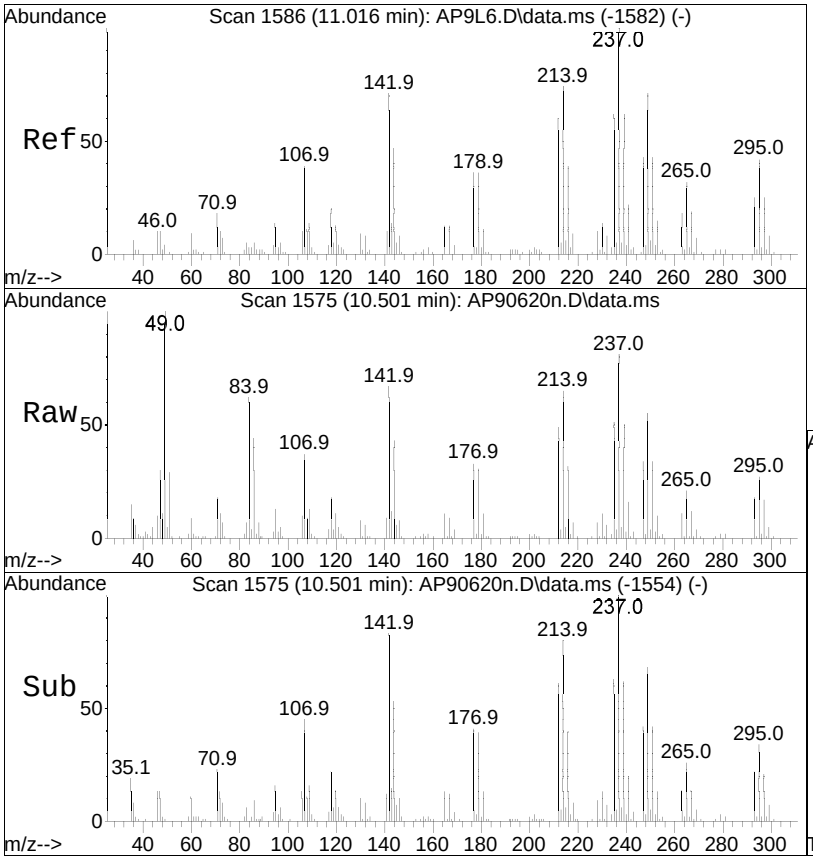


#83
Dichloran
Concen: 5.27 ug/ml
RT: 10.360 min Scan# 1551
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:206 Resp: 23780

Ion	Ratio	Lower	Upper
206	100		
176	108.9	104.6	157.0
124	118.6	130.5	195.7#

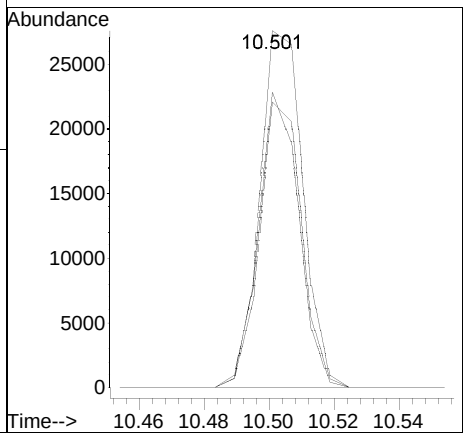


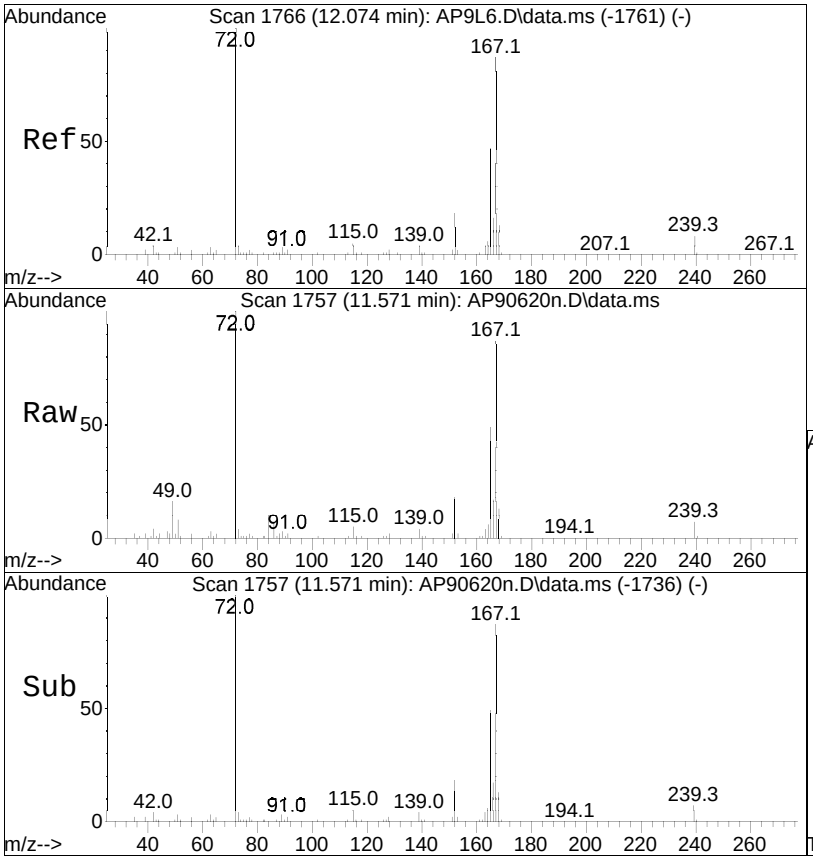


#84
Pentachloronitrobenzene
Concen: 5.11 ug/ml
RT: 10.501 min Scan# 1575
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:237 Resp: 25370

Ion	Ratio	Lower	Upper
237	100		
142	77.2	77.0	115.4
214	78.2	58.2	87.4

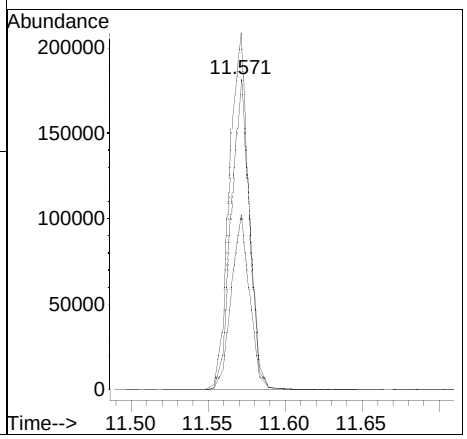




#98
Diphenamid
Concen: 5.04 ug/ml
RT: 11.571 min Scan# 1757
Delta R.T. 0.000 min
Lab File: AP90620n.D
Acq: 21 Jun 2024 2:25 am

Tgt Ion:167 Resp: 150228

Ion	Ratio	Lower	Upper
167	100		
72	119.5	109.7	164.5
165	56.9	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240620NRVT\	QMethod	: FS240602SV107RVT.m
Data File	: AP90620n.D	Operator	: SV107:sz
Date Inj'd	: 6/21/2024 2:25 am	Instrument	: SV107
Sample	: wg1937320-4,32,,AP9 LVI CC	Quant Date	: 6/21/2024 2:49 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240620NRVT\
Data File : ADP0620n.D
Acq On : 21 Jun 2024 2:51 am
Operator : SV107:sz
Sample : wg1937320-5,32,,ADP LVI CCV Lot # 10751
Misc : wg1937320,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 21 03:10:28 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:49:02 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	140	0.00
33	T	n-Decane		1.447	1.397	3.5	146	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	124	0.00
86	T	Atrazine		0.347	0.289	16.7	101	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	116	0.00
100	T	n-Octadecane		0.393	0.398	-1.3	116	0.00
101	T	Parathion	*	5.000	4.577	8.5	118	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.458	34.2#	79	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : ADP0620n.D
Acq On : 21 Jun 2024 2:51 am
Operator : SV107:sz
Sample : wg1937320-5,32,,ADP LVI CCV Lot # 10751
Misc : wg1937320,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 21 03:10:28 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:49:02 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.954	152	67896	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	9.219	164	134249	4.000	ug/ml	0.01
99) IS3_Phenanthrene-d10	10.648	188	271047	4.000	ug/ml	0.01
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.860	57	118574	4.827	ug/ml#	43
86) Atrazine	10.448	200	48450	4.159	ug/ml	95
100) n-Octadecane	10.666	57	134973	5.071	ug/ml#	1
101) Parathion	11.454	109	21302	4.577	ug/ml#	90
102) 3,3'-Dimethylbenzidine	12.713	212	155334	3.294	ug/ml	98

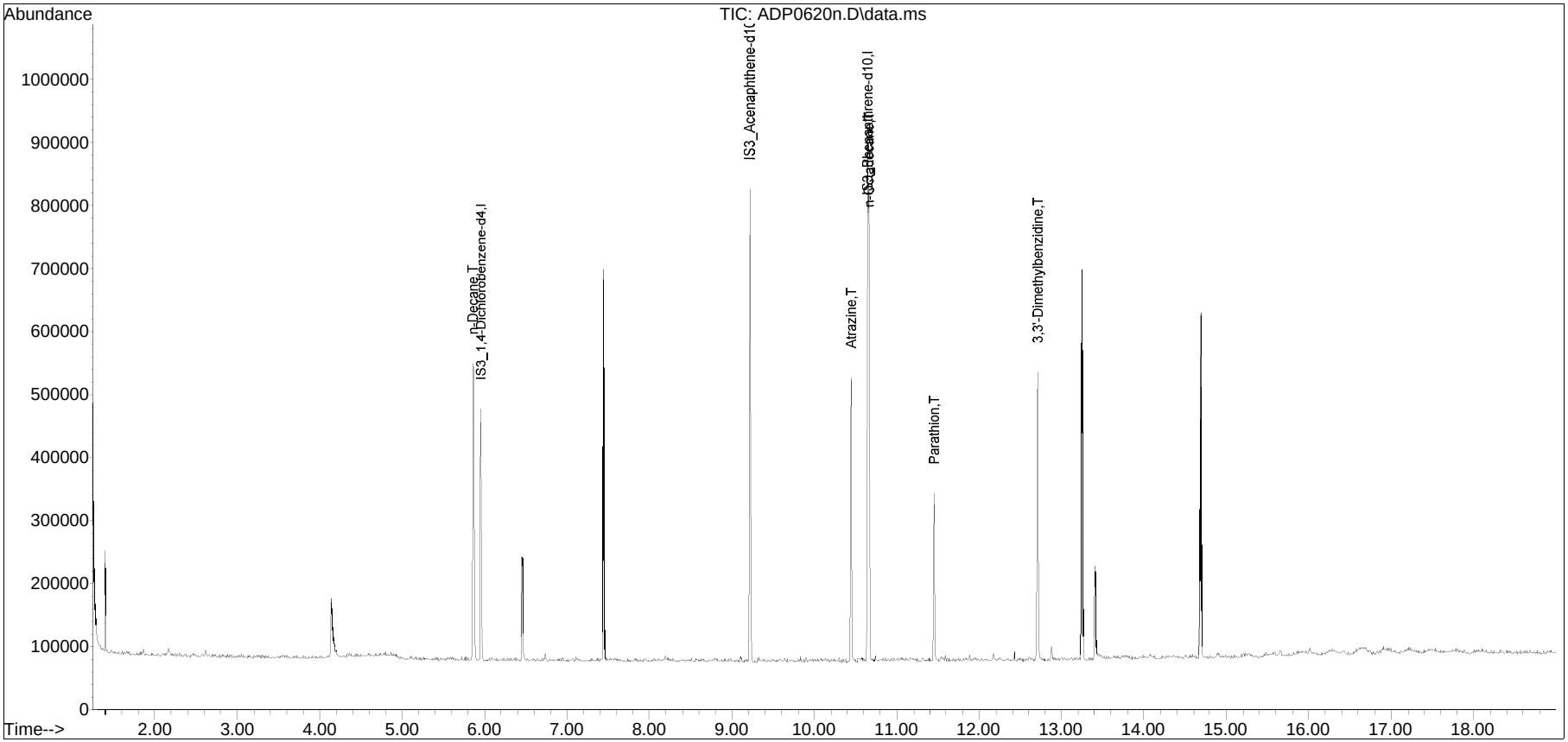
(#) = qualifier out of range (m) = manual integration (+) = signals summed

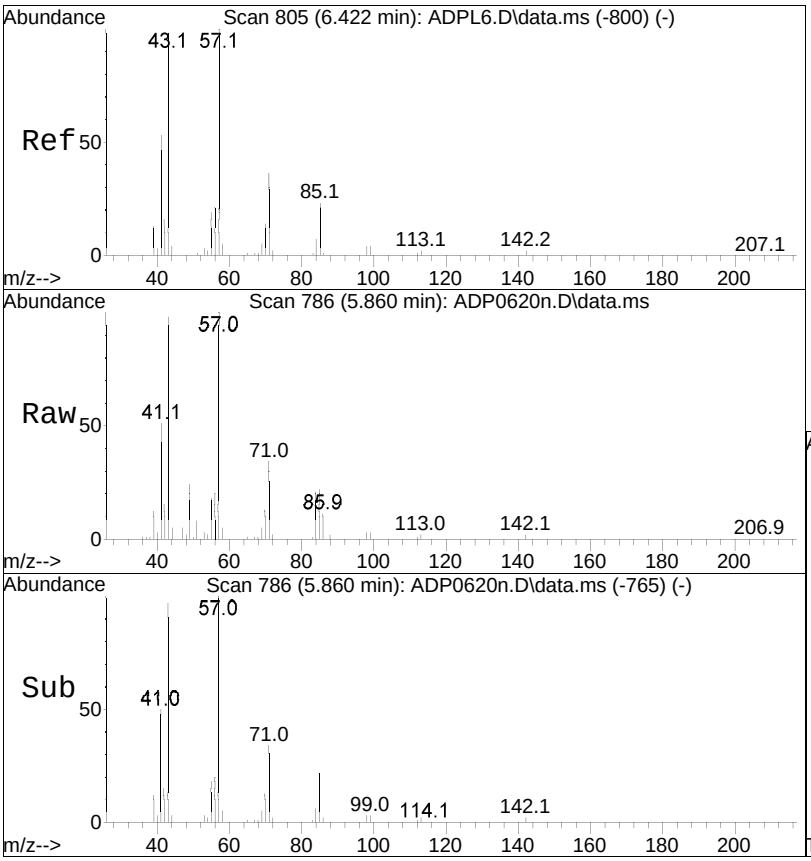
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : ADP0620n.D
Acq On : 21 Jun 2024 2:51 am
Operator : SV107:sz
Sample : wg1937320-5,32,,ADP LVI CCV Lot # 10751
Misc : wg1937320,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 21 03:10:28 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 02:49:02 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

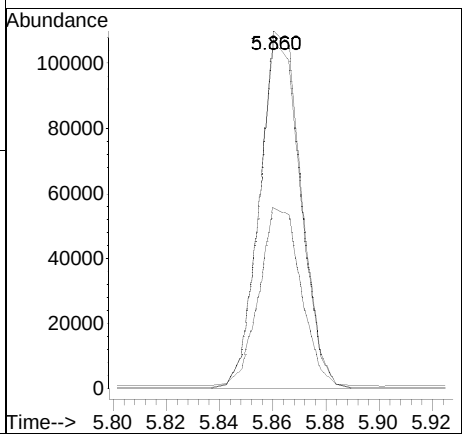


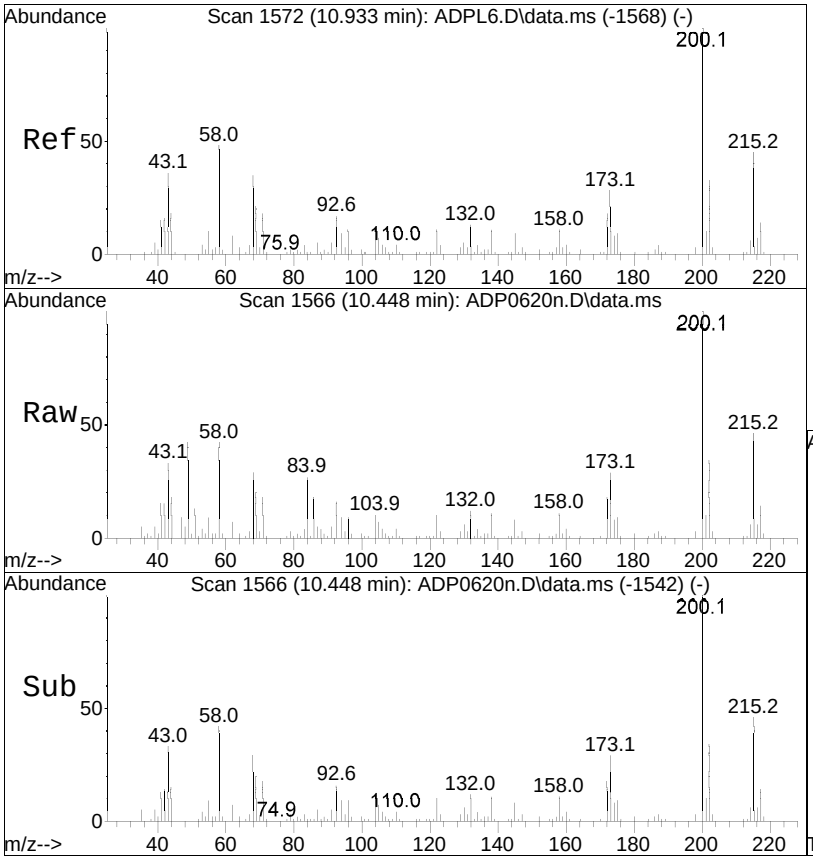


#33
n-Decane
Concen: 4.83 ug/ml
RT: 5.860 min Scan# 786
Delta R.T. 0.001 min
Lab File: ADP0620n.D
Acq: 21 Jun 2024 2:51 am

Tgt Ion: 57 Resp: 118574

Ion	Ratio	Lower	Upper
57	100		
43	96.5	0.2	0.2#
41	50.5	0.2	0.2#

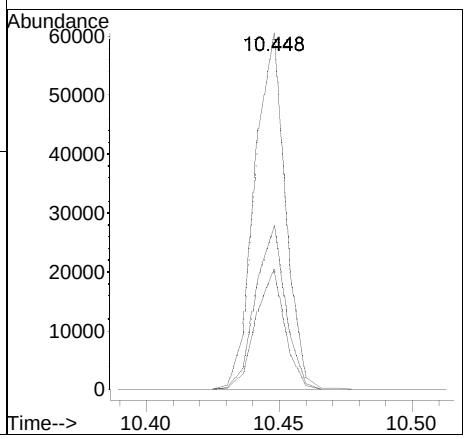


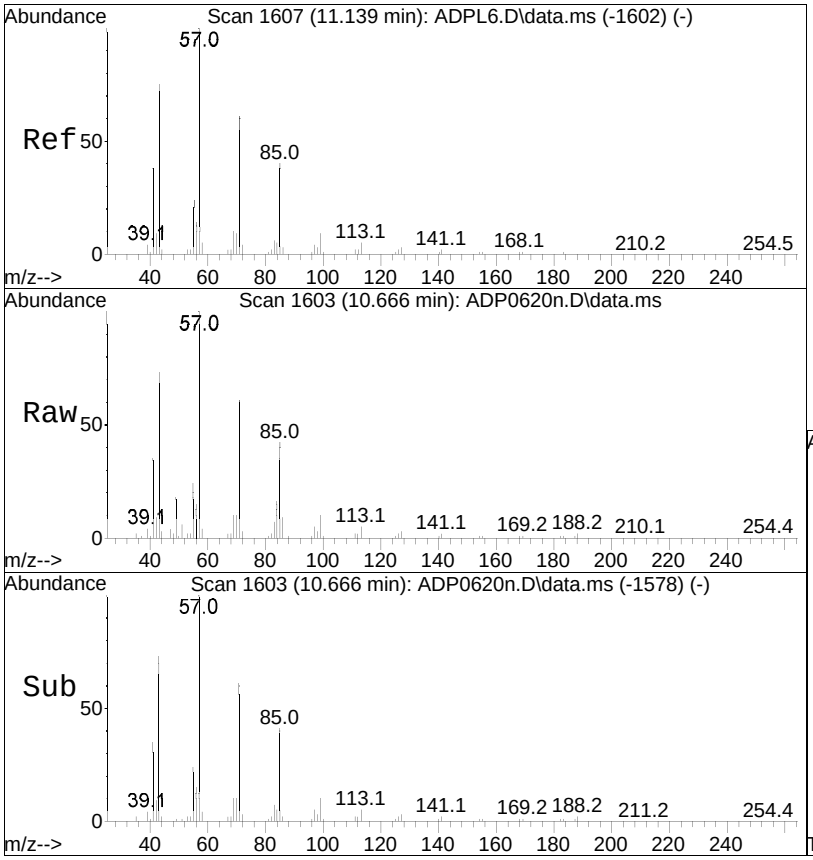


#86
Atrazine
Concen: 4.16 ug/ml
RT: 10.448 min Scan# 1566
Delta R.T. 0.019 min
Lab File: ADP0620n.D
Acq: 21 Jun 2024 2:51 am

Tgt Ion:200 Resp: 48450

Ion	Ratio	Lower	Upper
200	100		
202	32.1	25.8	38.6
215	44.7	40.2	60.4

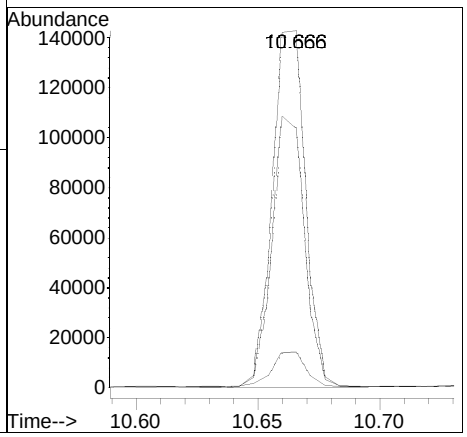


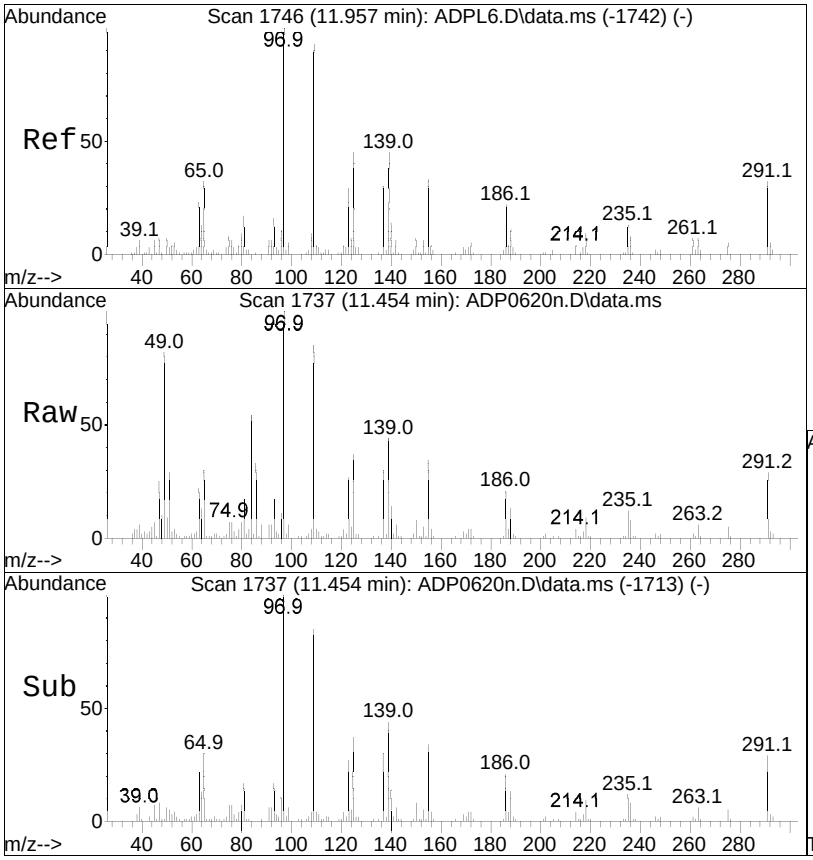


#100
n-Octadecane
Concen: 5.07 ug/ml
RT: 10.666 min Scan# 1603
Delta R.T. 0.025 min
Lab File: ADP0620n.D
Acq: 21 Jun 2024 2:51 am

Tgt Ion: 57 Resp: 134973

Ion	Ratio	Lower	Upper
57	100		
43	74.2	9.0	13.6#
70	10.6	0.2	0.2#

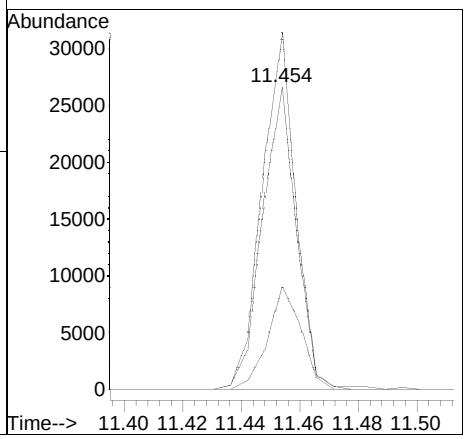


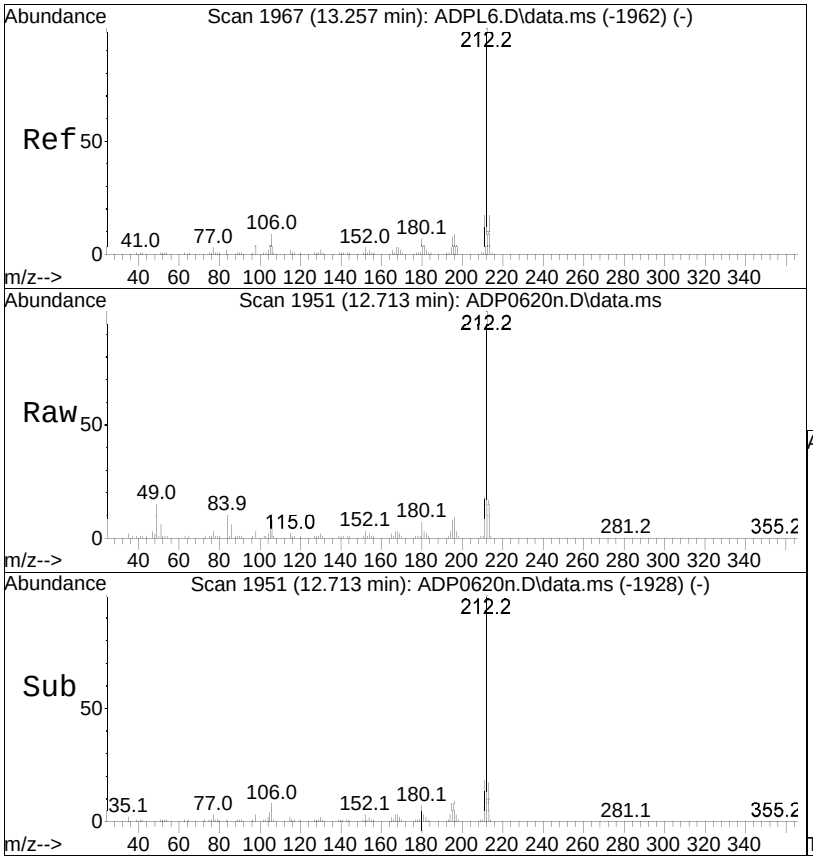


#101
Parathion
Concen: 4.58 ug/ml
RT: 11.454 min Scan# 1737
Delta R.T. 0.019 min
Lab File: ADP0620n.D
Acq: 21 Jun 2024 2:51 am

Tgt Ion:109 Resp: 21302

Ion	Ratio	Lower	Upper
109	100		
97	117.4	87.4	131.2
291	33.6	34.2	51.2#

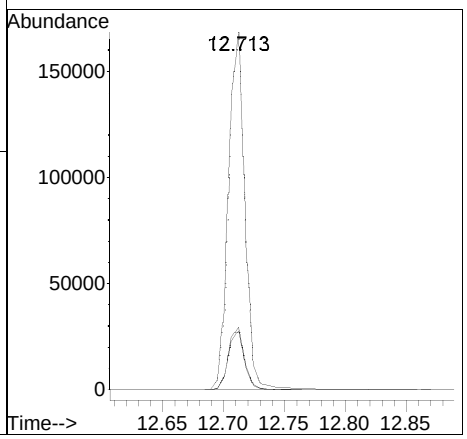




#102
3,3'-Dimethylbenzidine
Concen: 3.29 ug/ml
RT: 12.713 min Scan# 1951
Delta R.T. 0.013 min
Lab File: ADP0620n.D
Acq: 21 Jun 2024 2:51 am

Tgt Ion:212 Resp: 155334

Ion	Ratio	Lower	Upper
212	100		
211	17.4	12.9	19.3
213	16.4	13.2	19.8



Manual Integration Report

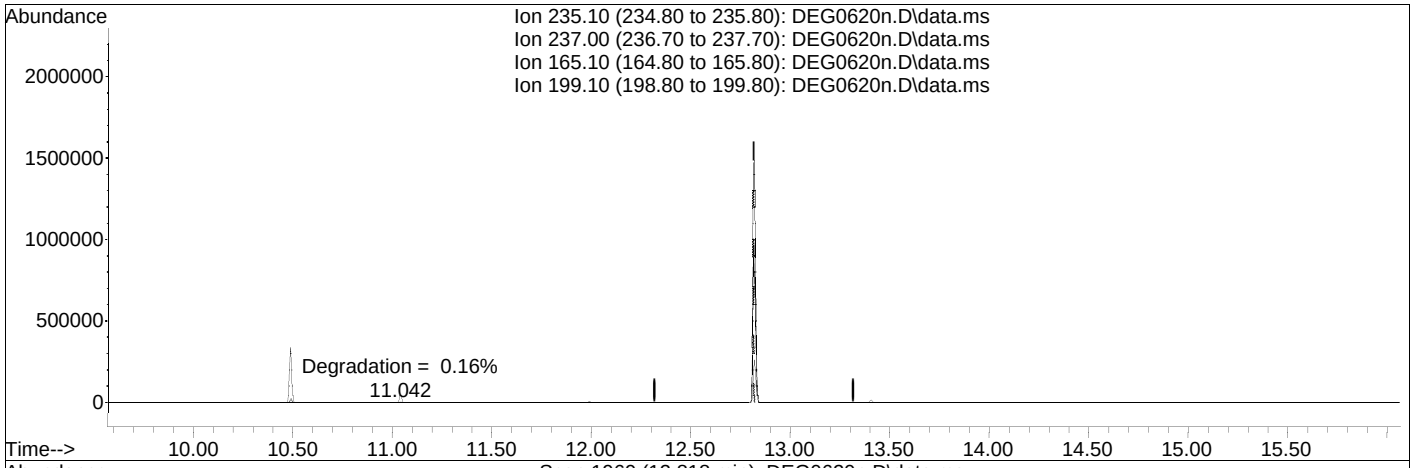
Data Path	: I:\8270\SV107\240620NRVT\	QMethod	: FS240602SV107RVT.m
Data File	: ADP0620n.D	Operator	: SV107:sz
Date Inj'd	: 6/21/2024 2:51 am	Instrument	: SV107
Sample	: wg1937320-5,32,,ADP LVI CC	Quant Date	: 6/21/2024 3:11 am

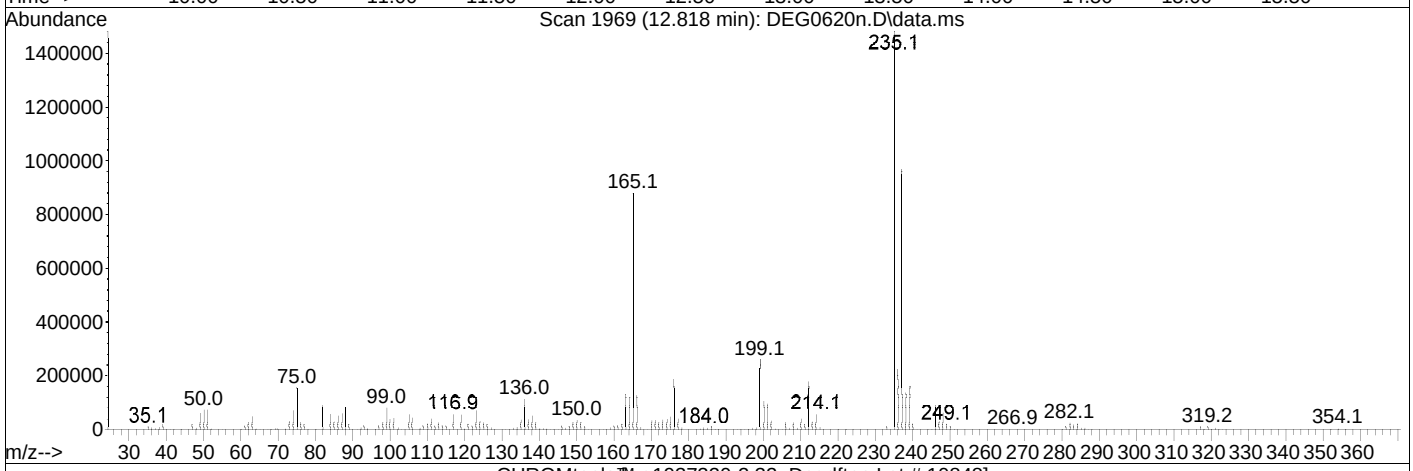
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240620NRVT\
Data File : DEG0620n.D
Acq On : 21 Jun 2024 1:34 am
Operator : SV107:sz
Sample : wg1937320-2,32,,Degdftpp Lot # 10848
Misc : wg1937320,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 21 01:54:41 2024
Quant Method : I:\8270\SV107\240620NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 01:55:25 2024
Response via : Initial Calibration





CHROMtools™ [wg1937320-2,32,,Degdftpp Lot # 10848]

(6) DDT (T)

12.818min (+ 0.000) 219.44

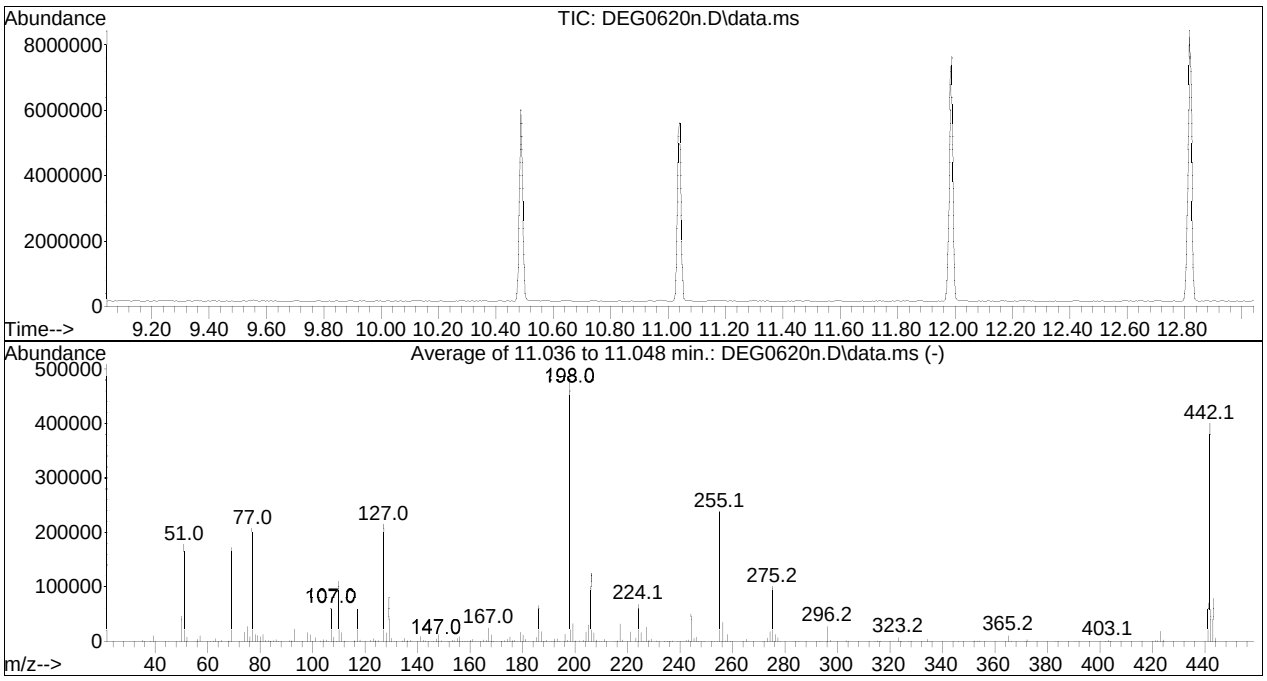
response 1337656

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	65.05
165.10	55.40	57.54
199.10	16.20	17.12

Data Path : I:\8270\SV107\240620NRVT\
Data File : DEG0620n.D
Acq On : 21 Jun 2024 1:34 am
Operator : SV107: ASK
Sample : WG1937320-1,32,,Degdftpp Lot # 10848
Misc : WG1937320,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Jun 21 02:22:22 2024



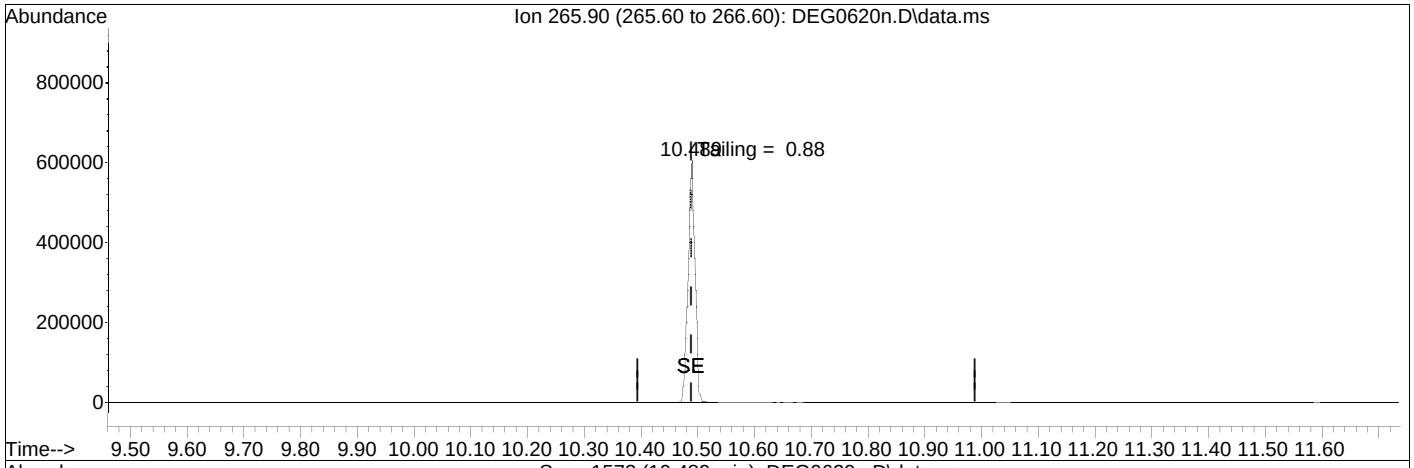
Spectrum Information: Average of 11.036 to 11.048 min.

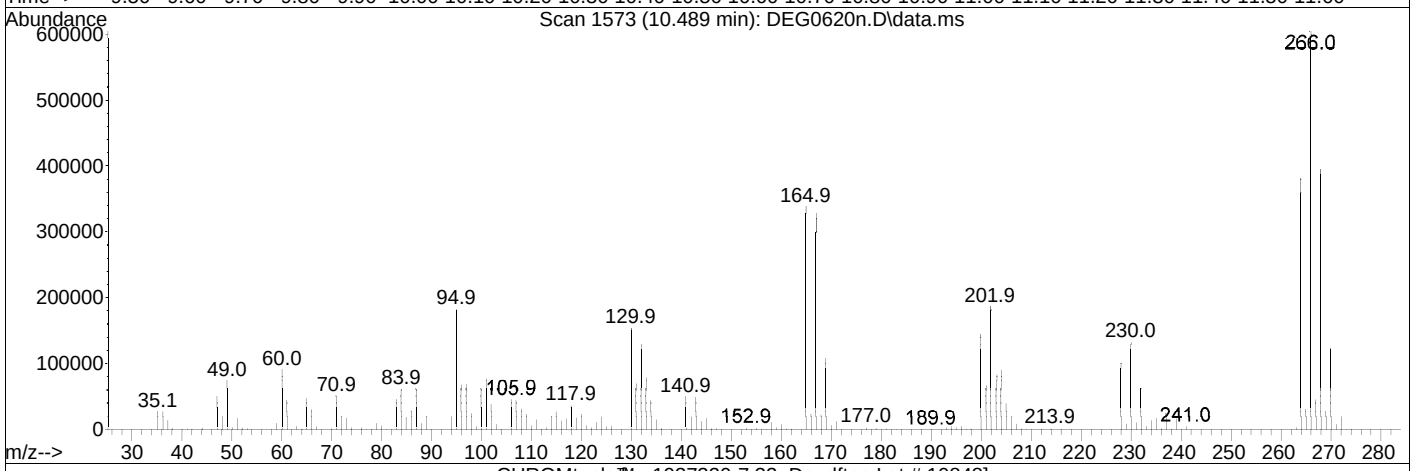
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.6	177037	PASS
68	69	0.00	2	1.5	2655	PASS
69	69	100	100	100.0	172215	PASS
70	69	0.00	2	0.5	860	PASS
127	198	10	80	44.3	214459	PASS
197	198	0.00	2	0.7	3396	PASS
198	198	100	100	100.0	484224	PASS
199	198	5	9	6.8	32764	PASS
275	198	10	60	20.6	99717	PASS
365	198	1	100	2.4	11555	PASS
441	442	0.01	24	17.5	70096	PASS
442	198	50	100	82.5	399509	PASS
443	442	15	24	19.5	78027	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240620NRVT\
Data File : DEG0620n.D
Acq On : 21 Jun 2024 1:34 am
Operator : SV107:sz
Sample : wg1937320-7,32,,Degdftpp Lot # 10848
Misc : wg1937320,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 21 01:54:41 2024
Quant Method : I:\8270\SV107\240620NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 01:55:25 2024
Response via : Initial Calibration





CHROMtools™ [wg1937320-7,32,,Degdftpp Lot # 10848]

(1) Pentachlorophenol (T)

10.489min (+ 0.000) 224.37

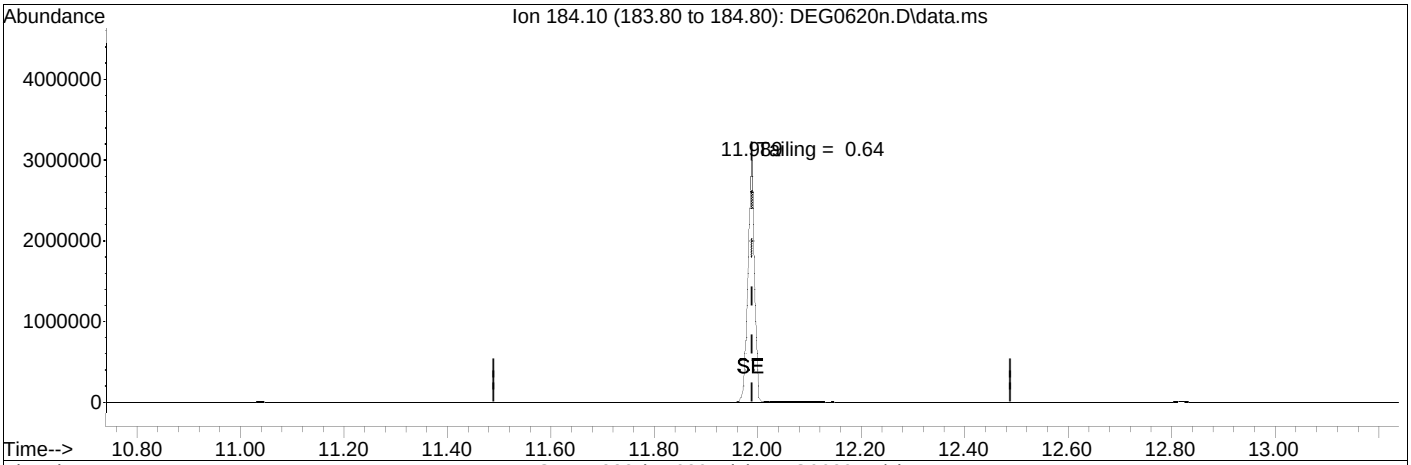
response 471264

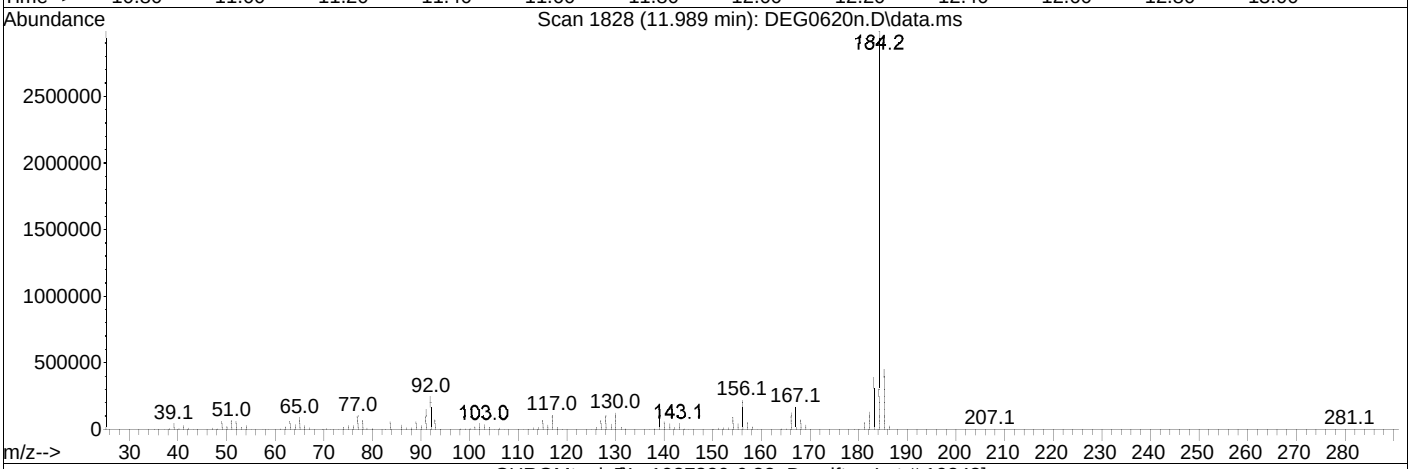
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240620NRVT\
Data File : DEG0620n.D
Acq On : 21 Jun 2024 1:34 am
Operator : SV107:sz
Sample : wg1937320-6,32,,Degdftpp Lot # 10848
Misc : wg1937320,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 21 01:54:41 2024
Quant Method : I:\8270\SV107\240620NRVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 01:55:25 2024
Response via : Initial Calibration





CHROMtools [wg1937320-6,32,,Degdftpp Lot # 10848]

(3) Benzidine (T)

11.989min (0.000) 245.79

response 2502197

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Nitrosodimethylamine	0.704	0.76	-	-8	20	137	0
Pyridine	1.199	1.305	-	-8.8	20	141	0
2-Fluorophenol	1.069	1.124	-	-5.1	20	135	0
Aniline	1.713	1.754	-	-2.4	20	133	0
2-Chlorophenol	1.178	1.238	-	-5.1	20	136	0
Phenol-d6	1.322	1.385	-	-4.8	20	136	0
Phenol	1.438	1.504	-	-4.6	20	137	0
Bis(2-chloroethyl)ether	1.185	1.256	-	-6	20	143	0
1,3-Dichlorobenzene	1.452	1.515	-	-4.3	20	138	0
1,4-Dichlorobenzene	1.478	1.519	-	-2.8	20	136	0
1,2-Dichlorobenzene	1.426	1.476	-	-3.5	20	137	0
Benzyl alcohol	1	1.002	-	-0.2	20	131	0
Bis(2-chloroisopropyl)ethe	1.623	1.859	-	-14.5	20	154	0
2-Methylphenol	1.031	1.074	-	-4.2	20	134	0
Hexachloroethane	0.545	0.594	-	-9	20	143	0
n-Nitrosodi-n-propylamine	0.879	0.899	-	-2.3	20	134	0
3-Methylphenol/4-Methylphe	1.084	1.162	-	-7.2	20	133	0
Nitrobenzene-d5	1.165	1.35	-	-15.9	20	145	0
Nitrobenzene	1.197	1.378	-	-15.1	20	144	0
Isophorone	2.31	2.38	-	-3	20	131	0
2-Nitrophenol	0.533	0.62	-	-16.3	20	154	0
2,4-Dimethylphenol	1.088	1.144	-	-5.1	20	135	0
Bis(2-chloroethoxy)methane	1.508	1.605	-	-6.4	20	141	0
2,4-Dichlorophenol	1.094	1.163	-	-6.3	20	132	0
1,2,4-Trichlorobenzene	1.318	1.358	-	-3	20	138	0
IS1_Naphthalene-d8	1	1	-	0	20	127	0
Naphthalene	0.996	1.011	-	-1.5	20	139	0
Benzoic Acid	5	5.214	-	-4.3	20	144	0
4-Chloroaniline	0.126	0.135	-	-7.1	20	143	0
Hexachlorobutadiene	0.211	0.214	-	-1.4	20	139	0
p-Chloro-m-cresol	0.272	0.286	-	-5.1	20	132	0
2-Methylnaphthalene	0.688	0.698	-	-1.5	20	136	0
1-Methylnaphthalene	0.235	0.244	-	-3.8	20	141	0
Hexachlorocyclopentadiene	0.205	0.234	-	-14.1	20	151	0
2,4,6-Trichlorophenol	0.237	0.263	-	-11	20	138	0
2,4,5-Trichlorophenol	0.251	0.277	-	-10.4	20	137	0
2-Fluorobiphenyl	0.866	0.874	-	-0.9	20	135	0
2-Chloronaphthalene	0.715	0.745	-	-4.2	20	140	0
2-Nitroaniline	0.173	0.198	-	-14.5	20	144	0
1,4-Dinitrobenzene	0.087	0.106	-	-21.8*	20	177	0
1,3-Dinitrobenzene	0.109	0.127	-	-16.5	20	163	0
Dimethyl phthalate	0.839	0.903	-	-7.6	20	142	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.129	-	-4.6	20	137	0
2,6-Dinitrotoluene	0.153	0.185	-	-20.9*	20	148	0
1,2-Dinitrobenzene	0.068	0.083	-	-22.1*	20	150	0
IS1_Acenaphthene-d10	1	1	-	0	20	126	0
3-Nitroaniline	0.259	0.298	-	-15.1	20	146	0
Acenaphthene	1.081	1.063	-	1.7	20	137	0
2,4-Dinitrophenol	5	5.242	-	-4.8	20	164	0
Dibenzofuran	1.757	1.753	-	0.2	20	138	0
2,4-Dinitrotoluene	5	5.221	-	-4.4	20	157	0
4-Nitrophenol	0.221	0.261	-	-18.1	20	159	0
2,3,5,6-Tetrachlorophenol	0.318	0.359	-	-12.9	20	140	0
2,3,4,6-Tetrachlorophenol	0.314	0.345	-	-9.9	20	135	0
Diethyl phthalate	1.301	1.368	-	-5.1	20	144	0
Fluorene	1.328	1.354	-	-2	20	138	0
4-Chlorophenyl phenyl ethe	0.672	0.671	-	0.1	20	138	0
4-Nitroaniline	0.262	0.292	-	-11.5	20	147	0
4,6-Dinitro-o-cresol	5	5.267	-	-5.3	20	176	0
NDPA/DPA	1.131	1.184	-	-4.7	20	141	0
Azobenzene	1.259	1.33	-	-5.6	20	140	0
2,4,6-Tribromophenol	0.171	0.177	-	-3.5	20	126	0
4-Bromophenyl phenyl ether	0.376	0.376	-	0	20	137	0
Hexachlorobenzene	0.431	0.409	-	5.1	20	132	0
Pentachlorophenol	0.252	0.223	-	11.5	20	119	0
IS1_Phenanthrene-d10	1	1	-	0	20	124	0
Phenanthrene	1.038	1.073	-	-3.4	20	141	0
Anthracene	1.03	1.064	-	-3.3	20	140	0
Carbazole	0.928	0.936	-	-0.9	20	133	0
Di-n-butylphthalate	1.088	1.092	-	-0.4	20	130	0
Fluoranthene	1.186	1.176	-	0.8	20	134	0
Benzidine	0.721	0.666	-	7.6	20	123	0
Pyrene	1.269	1.307	-	-3	20	140	0
4-Terphenyl-d14	0.875	0.849	-	3	20	132	0
Butyl benzyl phthalate	5	4.245	-	15.1	20	127	0
IS1_Chrysene-d12	1	1	-	0	20	113	0
Benzo(a)anthracene	1.335	1.336	-	-0.1	20	124	0
3,3'-Dichlorobenzidine	0.43	0.451	-	-4.9	20	118	0
Chrysene	1.276	1.314	-	-3	20	128	0
Bis(2-ethylhexyl)phthalate	5	4.579	-	8.4	20	120	0
Di-n-octylphthalate	5	4.236	-	15.3	20	115	0
Benzo(b)fluoranthene	1.178	1.282	-	-8.8	20	131	0
Benzo(k)fluoranthene	1.154	1.111	-	3.7	20	114	0
Benzo(a)pyrene	1.025	1.073	-	-4.7	20	124	0
IS1_Perylene-d12	1	1	-	0	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 12:44		
Lab File ID	: ABN0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.042	-	-9.5	20	126	0
Dibenzo(a,h)anthracene	0.953	1.017	-	-6.7	20	113	0
Benzo(ghi)perylene	0.928	1.01	-	-8.8	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 13:10		
Lab File ID	: AP90620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	141	0
Benzaldehyde	1.024	1.068	-	-4.3	20	156	0
Acetophenone	1.77	1.845	-	-4.2	20	152	0
m-Toluidine	1.599	1.83	-	-14.4	20	157	0
2-Chloroaniline	1.546	1.673	-	-8.2	20	156	0
IS2_Naphthalene-d8	1	1	-	0	20	137	0
a-Terpineol	0.276	0.312	-	-13	20	165	0
3-Chloroaniline	0.147	0.168	-	-14.3	20	165	0
2,6-Dichlorophenol	0.29	0.332	-	-14.5	20	162	0
1-chloro-2-nitrobenzene	0.121	0.154	-	-27.3*	20	189	0
Caprolactam	0.149	0.168	-	-12.8	20	162	0
1,2,4,5-Tetrachlorobenzene	0.402	0.428	-	-6.5	20	159	0
Biphenyl	0.929	1.015	-	-9.3	20	163	0
IS2_Acenaphthene-d10	1	1	-	0	20	147	0
Dichloran	5	6.381	-	-27.6*	20	233	0
Pentachloronitrobenzene	5	6.355	-	-27.1*	20	214	0
IS2_Phenanthrene-d10	1	1	-	0	20	152	0
Diphenamid	0.445	0.472	-	-6.1	20	166	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/20/24 13:36		
Lab File ID	: ADP0620	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937154-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	119	0
n-Decane	1.447	1.393	-	3.7	20	124	0
IS3_Acenaphthene-d10	1	1	-	0	20	122	0
Atrazine	0.347	0.36	-	-3.7	20	123	0
IS3_Phenanthrene-d10	1	1	-	0	20	126	0
n-Octadecane	0.393	0.406	-	-3.3	20	129	0
Parathion	5	4.974	-	0.5	20	141	0
3,3'-Dimethylbenzidine	0.696	0.556	-	20.1*	20	105	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Nitrosodimethylamine	0.704	0.818	-	-16.2	20	147	0
Pyridine	1.199	1.281	-	-6.8	20	138	0
2-Fluorophenol	1.069	1.187	-	-11	20	142	0
Aniline	1.713	1.636	-	4.5	20	125	0
2-Chlorophenol	1.178	1.237	-	-5	20	137	0
Phenol-d6	1.322	1.456	-	-10.1	20	143	0
Phenol	1.438	1.55	-	-7.8	20	142	0
Bis(2-chloroethyl)ether	1.185	1.227	-	-3.5	20	140	0
1,3-Dichlorobenzene	1.452	1.471	-	-1.3	20	134	0
1,4-Dichlorobenzene	1.478	1.506	-	-1.9	20	135	0
1,2-Dichlorobenzene	1.426	1.435	-	-0.6	20	133	0
Benzyl alcohol	1	1.017	-	-1.7	20	133	0
Bis(2-chloroisopropyl)ethe	1.623	1.878	-	-15.7	20	155	0
2-Methylphenol	1.031	1.026	-	0.5	20	129	0
Hexachloroethane	0.545	0.571	-	-4.8	20	137	0
n-Nitrosodi-n-propylamine	0.879	0.89	-	-1.3	20	132	0
3-Methylphenol/4-Methylphe	1.084	1.105	-	-1.9	20	127	0
Nitrobenzene-d5	1.165	1.308	-	-12.3	20	141	0
Nitrobenzene	1.197	1.313	-	-9.7	20	138	0
Isophorone	2.31	2.28	-	1.3	20	126	0
2-Nitrophenol	0.533	0.589	-	-10.5	20	147	0
2,4-Dimethylphenol	1.088	0.719	-	33.9*	20	85	0
Bis(2-chloroethoxy)methane	1.508	1.519	-	-0.7	20	134	0
2,4-Dichlorophenol	1.094	1.1	-	-0.5	20	125	0
1,2,4-Trichlorobenzene	1.318	1.267	-	3.9	20	129	0
IS1_Naphthalene-d8	1	1	-	0	20	124	0
Naphthalene	0.996	0.991	-	0.5	20	133	0
Benzoic Acid	5	5.836	-	-16.7	20	164	0
4-Chloroaniline	0.126	0.128	-	-1.6	20	132	0
Hexachlorobutadiene	0.211	0.195	-	7.6	20	124	0
p-Chloro-m-cresol	0.272	0.277	-	-1.8	20	125	0
2-Methylnaphthalene	0.688	0.656	-	4.7	20	124	0
1-Methylnaphthalene	0.235	0.228	-	3	20	128	0
Hexachlorocyclopentadiene	0.205	0.175	-	14.6	20	110	0
2,4,6-Trichlorophenol	0.237	0.23	-	3	20	118	0
2,4,5-Trichlorophenol	0.251	0.256	-	-2	20	124	0
2-Fluorobiphenyl	0.866	0.802	-	7.4	20	121	0
2-Chloronaphthalene	0.715	0.67	-	6.3	20	123	0
2-Nitroaniline	0.173	0.187	-	-8.1	20	133	0
1,4-Dinitrobenzene	0.087	0.091	-	-4.6	20	149	0
1,3-Dinitrobenzene	0.109	0.11	-	-0.9	20	137	0
Dimethyl phthalate	0.839	0.798	-	4.9	20	122	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.067	-	1.1	20	126	0
2,6-Dinitrotoluene	0.153	0.161	-	-5.2	20	125	0
1,2-Dinitrobenzene	0.068	0.071	-	-4.4	20	127	0
IS1_Acenaphthene-d10	1	1	-	0	20	114	0
3-Nitroaniline	0.259	0.3	-	-15.8	20	133	0
Acenaphthene	1.081	1.041	-	3.7	20	122	0
2,4-Dinitrophenol	5	5.483	-	-9.7	20	156	0
Dibenzofuran	1.757	1.682	-	4.3	20	119	0
2,4-Dinitrotoluene	5	4.927	-	1.5	20	133	0
4-Nitrophenol	0.221	0.263	-	-19	20	144	0
2,3,5,6-Tetrachlorophenol	0.318	0.32	-	-0.6	20	113	0
2,3,4,6-Tetrachlorophenol	0.314	0.32	-	-1.9	20	113	0
Diethyl phthalate	1.301	1.264	-	2.8	20	120	0
Fluorene	1.328	1.301	-	2	20	120	0
4-Chlorophenyl phenyl ethe	0.672	0.63	-	6.3	20	117	0
4-Nitroaniline	0.262	0.284	-	-8.4	20	129	0
4,6-Dinitro-o-cresol	5	5.118	-	-2.4	20	154	0
NDPA/DPA	1.131	1.117	-	1.2	20	120	0
Azobenzene	1.259	1.317	-	-4.6	20	125	0
2,4,6-Tribromophenol	0.171	0.152	-	11.1	20	98	0
4-Bromophenyl phenyl ether	0.376	0.322	-	14.4	20	106	0
Hexachlorobenzene	0.431	0.335	-	22.3*	20	98	0
Pentachlorophenol	0.252	0.221	-	12.3	20	106	0
IS1_Phenanthrene-d10	1	1	-	0	20	110	0
Phenanthrene	1.038	1.008	-	2.9	20	117	0
Anthracene	1.03	1.004	-	2.5	20	117	0
Carbazole	0.928	0.92	-	0.9	20	115	0
Di-n-butylphthalate	1.088	1.047	-	3.8	20	110	0
Fluoranthene	1.186	1.09	-	8.1	20	109	0
Benzidine	0.721	0.548	-	24*	20	89	0
Pyrene	1.269	1.18	-	7	20	111	0
4-Terphenyl-d14	0.875	0.761	-	13	20	104	0
Butyl benzyl phthalate	5	4.358	-	12.8	20	116	0
IS1_Chrysene-d12	1	1	-	0	20	99	0
Benzo(a)anthracene	1.335	1.295	-	3	20	105	0
3,3'-Dichlorobenzidine	0.43	0.448	-	-4.2	20	103	0
Chrysene	1.276	1.287	-	-0.9	20	110	0
Bis(2-ethylhexyl)phthalate	5	4.913	-	1.7	20	113	0
Di-n-octylphthalate	5	4.826	-	3.5	20	117	0
Benzo(b)fluoranthene	1.178	1.236	-	-4.9	20	111	0
Benzo(k)fluoranthene	1.154	1.18	-	-2.3	20	106	0
Benzo(a)pyrene	1.025	1.097	-	-7	20	111	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:00		
Lab File ID	: ABN0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.073	-	-12.7	20	119	0
Dibenzo(a,h)anthracene	0.953	1.039	-	-9	20	107	0
Benzo(ghi)perylene	0.928	1.005	-	-8.3	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:25		
Lab File ID	: AP90620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	146	0
Benzaldehyde	1.024	1.034	-	-1	20	157	0
Acetophenone	1.77	1.745	-	1.4	20	149	0
m-Toluidine	1.599	1.735	-	-8.5	20	154	0
2-Chloroaniline	1.546	1.545	-	0.1	20	150	0
IS2_Naphthalene-d8	1	1	-	0	20	139	0
a-Terpineol	0.276	0.307	-	-11.2	20	165	0
3-Chloroaniline	0.147	0.159	-	-8.2	20	158	0
2,6-Dichlorophenol	0.29	0.307	-	-5.9	20	152	0
1-chloro-2-nitrobenzene	0.121	0.138	-	-14	20	172	0
Caprolactam	0.149	0.158	-	-6	20	155	0
1,2,4,5-Tetrachlorobenzene	0.402	0.37	-	8	20	139	0
Biphenyl	0.929	0.867	-	6.7	20	141	0
IS2_Acenaphthene-d10	1	1	-	0	20	133	0
Dichloran	5	5.27	-	-5.4	20	169	0
Pentachloronitrobenzene	5	5.112	-	-2.2	20	152	0
IS2_Phenanthrene-d10	1	1	-	0	20	125	0
Diphenamid	0.445	0.448	-	-0.7	20	129	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 02:51		
Lab File ID	: ADP0620N	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937320-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	140	0
n-Decane	1.447	1.397	-	3.5	20	146	0
IS3_Acenaphthene-d10	1	1	-	0	20	124	0
Atrazine	0.347	0.289	-	16.7	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	116	0
n-Octadecane	0.393	0.398	-	-1.3	20	116	0
Parathion	5	4.577	-	8.5	20	118	0
3,3'-Dimethylbenzidine	0.696	0.458	-	34.2*	20	79	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	128	0
n-Nitrosodimethylamine	0.704	0.777	-	-10.4	20	144	0
Pyridine	1.199	1.324	-	-10.4	20	147	0
2-Fluorophenol	1.069	1.129	-	-5.6	20	139	0
Aniline	1.713	1.797	-	-4.9	20	141	0
2-Chlorophenol	1.178	1.23	-	-4.4	20	140	0
Phenol-d6	1.322	1.417	-	-7.2	20	143	0
Phenol	1.438	1.53	-	-6.4	20	144	0
Bis(2-chloroethyl)ether	1.185	1.254	-	-5.8	20	147	0
1,3-Dichlorobenzene	1.452	1.521	-	-4.8	20	143	0
1,4-Dichlorobenzene	1.478	1.54	-	-4.2	20	142	0
1,2-Dichlorobenzene	1.426	1.48	-	-3.8	20	141	0
Benzyl alcohol	1	1.035	-	-3.5	20	139	0
Bis(2-chloroisopropyl)ethe	1.623	1.863	-	-14.8	20	158	0
2-Methylphenol	1.031	1.072	-	-4	20	138	0
Hexachloroethane	0.545	0.588	-	-7.9	20	145	0
n-Nitrosodi-n-propylamine	0.879	0.949	-	-8	20	145	0
3-Methylphenol/4-Methylphe	1.084	1.184	-	-9.2	20	140	0
Nitrobenzene-d5	1.165	1.374	-	-17.9	20	152	0
Nitrobenzene	1.197	1.38	-	-15.3	20	148	0
Isophorone	2.31	2.442	-	-5.7	20	139	0
2-Nitrophenol	0.533	0.635	-	-19.1	20	163	0
2,4-Dimethylphenol	1.088	1.147	-	-5.4	20	139	0
Bis(2-chloroethoxy)methane	1.508	1.606	-	-6.5	20	146	0
2,4-Dichlorophenol	1.094	1.219	-	-11.4	20	143	0
1,2,4-Trichlorobenzene	1.318	1.369	-	-3.9	20	143	0
IS1_Naphthalene-d8	1	1	-	0	20	130	0
Naphthalene	0.996	1.023	-	-2.7	20	144	0
Benzoic Acid	5	5.898	-	-18	20	175	0
4-Chloroaniline	0.126	0.135	-	-7.1	20	148	0
Hexachlorobutadiene	0.211	0.217	-	-2.8	20	145	0
p-Chloro-m-cresol	0.272	0.294	-	-8.1	20	140	0
2-Methylnaphthalene	0.688	0.691	-	-0.4	20	138	0
1-Methylnaphthalene	0.235	0.244	-	-3.8	20	145	0
Hexachlorocyclopentadiene	0.205	0.226	-	-10.2	20	150	0
2,4,6-Trichlorophenol	0.237	0.255	-	-7.6	20	137	0
2,4,5-Trichlorophenol	0.251	0.277	-	-10.4	20	141	0
2-Fluorobiphenyl	0.866	0.868	-	-0.2	20	138	0
2-Chloronaphthalene	0.715	0.731	-	-2.2	20	141	0
2-Nitroaniline	0.173	0.204	-	-17.9	20	152	0
1,4-Dinitrobenzene	0.087	0.11	-	-26.4*	20	189	0
1,3-Dinitrobenzene	0.109	0.125	-	-14.7	20	165	0
Dimethyl phthalate	0.839	0.873	-	-4.1	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.12	-	-3.8	20	139	0
2,6-Dinitrotoluene	0.153	0.181	-	-18.3	20	148	0
1,2-Dinitrobenzene	0.068	0.081	-	-19.1	20	151	0
IS1_Acenaphthene-d10	1	1	-	0	20	125	0
3-Nitroaniline	0.259	0.324	-	-25.1*	20	157	0
Acenaphthene	1.081	1.085	-	-0.4	20	139	0
2,4-Dinitrophenol	5	6.058	-	-21.2*	20	193	0
Dibenzofuran	1.757	1.795	-	-2.2	20	140	0
2,4-Dinitrotoluene	5	5.325	-	-6.5	20	159	0
4-Nitrophenol	0.221	0.281	-	-27.1*	20	169	0
2,3,5,6-Tetrachlorophenol	0.318	0.369	-	-16	20	143	0
2,3,4,6-Tetrachlorophenol	0.314	0.351	-	-11.8	20	136	0
Diethyl phthalate	1.301	1.397	-	-7.4	20	146	0
Fluorene	1.328	1.387	-	-4.4	20	140	0
4-Chlorophenyl phenyl ethe	0.672	0.681	-	-1.3	20	138	0
4-Nitroaniline	0.262	0.313	-	-19.5	20	156	0
4,6-Dinitro-o-cresol	5	5.726	-	-14.5	20	191	0
NDPA/DPA	1.131	1.2	-	-6.1	20	142	0
Azobenzene	1.259	1.383	-	-9.8	20	144	0
2,4,6-Tribromophenol	0.171	0.18	-	-5.3	20	127	0
4-Bromophenyl phenyl ether	0.376	0.375	-	0.3	20	135	0
Hexachlorobenzene	0.431	0.402	-	6.7	20	129	0
Pentachlorophenol	0.252	0.264	-	-4.8	20	139	0
IS1_Phenanthrene-d10	1	1	-	0	20	125	0
Phenanthrene	1.038	1.076	-	-3.7	20	143	0
Anthracene	1.03	1.064	-	-3.3	20	141	0
Carbazole	0.928	0.982	-	-5.8	20	140	0
Di-n-butylphthalate	1.088	1.128	-	-3.7	20	136	0
Fluoranthene	1.186	1.233	-	-4	20	142	0
Benzidine	0.721	0.699	-	3.1	20	130	0
Pyrene	1.269	1.321	-	-4.1	20	143	0
4-Terphenyl-d14	0.875	0.856	-	2.2	20	134	0
Butyl benzyl phthalate	5	4.635	-	7.3	20	141	0
IS1_Chrysene-d12	1	1	-	0	20	121	0
Benzo(a)anthracene	1.335	1.366	-	-2.3	20	136	0
3,3'-Dichlorobenzidine	0.43	0.47	-	-9.3	20	132	0
Chrysene	1.276	1.306	-	-2.4	20	136	0
Bis(2-ethylhexyl)phthalate	5	4.917	-	1.7	20	138	0
Di-n-octylphthalate	5	4.954	-	0.9	20	147	0
Benzo(b)fluoranthene	1.178	1.303	-	-10.6	20	142	0
Benzo(k)fluoranthene	1.154	1.185	-	-2.7	20	130	0
Benzo(a)pyrene	1.025	1.142	-	-11.4	20	141	0
IS1_Perylene-d12	1	1	-	0	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:25		
Lab File ID	: ABN0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.06	-	-11.3	20	140	0
Dibenzo(a,h)anthracene	0.953	1.101	-	-15.5	20	134	0
Benzo(ghi)perylene	0.928	1.058	-	-14	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 15:51		
Lab File ID	: AP90621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	143	0
Benzaldehyde	1.024	1.071	-	-4.6	20	160	0
Acetophenone	1.77	1.88	-	-6.2	20	158	0
m-Toluidine	1.599	1.825	-	-14.1	20	160	0
2-Chloroaniline	1.546	1.674	-	-8.3	20	159	0
IS2_Naphthalene-d8	1	1	-	0	20	138	0
a-Terpineol	0.276	0.32	-	-15.9	20	171	0
3-Chloroaniline	0.147	0.17	-	-15.6	20	168	0
2,6-Dichlorophenol	0.29	0.334	-	-15.2	20	164	0
1-chloro-2-nitrobenzene	0.121	0.156	-	-28.9*	20	193	0
Caprolactam	0.149	0.174	-	-16.8	20	169	0
1,2,4,5-Tetrachlorobenzene	0.402	0.409	-	-1.7	20	153	0
Biphenyl	0.929	0.987	-	-6.2	20	159	0
IS2_Acenaphthene-d10	1	1	-	0	20	143	0
Dichloran	5	6.179	-	-23.6*	20	219	0
Pentachloronitrobenzene	5	5.861	-	-17.2	20	191	0
IS2_Phenanthrene-d10	1	1	-	0	20	141	0
Diphenamid	0.445	0.505	-	-13.5	20	165	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/21/24 16:17		
Lab File ID	: ADP0621	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1937738-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	124	0
n-Decane	1.447	1.457	-	-0.7	20	135	0
IS3_Acenaphthene-d10	1	1	-	0	20	123	0
Atrazine	0.347	0.363	-	-4.6	20	125	0
IS3_Phenanthrene-d10	1	1	-	0	20	121	0
n-Octadecane	0.393	0.428	-	-8.9	20	130	0
Parathion	5	5.328	-	-6.6	20	147	0
3,3'-Dimethylbenzidine	0.696	0.588	-	15.5	20	106	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2024 3:25 pm
Operator : SV107:cmm
Sample : WG1937738-3,32,,ABN 10777 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 22 09:10:07 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 02:18:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	128	0.00
2	t	n-Nitrosodimethylamine		0.704	0.777	-10.4	144	0.00
3	t	Pyridine		1.199	1.324	-10.4	147	0.00
4	S	2-Fluorophenol		1.069	1.129	-5.6	139	0.00
5	T	Aniline		1.713	1.797	-4.9	141	0.00
6	t	2-Chlorophenol		1.178	1.230	-4.4	140	0.00
7	S	Phenol-d6		1.322	1.417	-7.2	143	0.00
8	T	Phenol		1.438	1.530	-6.4	144	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.254	-5.8	147	0.00
10	T	1,3-Dichlorobenzene		1.452	1.521	-4.8	143	0.00
11	T	1,4-Dichlorobenzene		1.478	1.540	-4.2	142	0.00
12	T	1,2-Dichlorobenzene		1.426	1.480	-3.8	141	0.00
13	t	Benzyl alcohol		1.000	1.035	-3.5	139	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.863	-14.8	158	0.00
15	T	2-Methylphenol		1.031	1.072	-4.0	138	0.00
16	T	Hexachloroethane		0.545	0.588	-7.9	145	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.949	-8.0	145	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.184	-9.2	140	0.00
19	S	Nitrobenzene-d5		1.165	1.374	-17.9	152	0.00
20	T	Nitrobenzene		1.197	1.380	-15.3	148	0.00
21	T	Isophorone		2.310	2.442	-5.7	139	0.00
22	T	2-Nitrophenol		0.533	0.635	-19.1	163	0.00
23	T	2,4-Dimethylphenol		1.088	1.147	-5.4	139	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.606	-6.5	146	0.00
25	T	2,4-Dichlorophenol		1.094	1.219	-11.4	143	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.369	-3.9	143	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	130	0.00
35	T	Naphthalene		0.996	1.023	-2.7	144	0.00
36	T	Benzoic Acid	*	5.000	5.898	-18.0	175	0.00
37	T	4-Chloroaniline		0.126	0.135	-7.1	148	0.00
38	T	Hexachlorobutadiene		0.211	0.217	-2.8	145	0.00
39	T	p-Chloro-m-cresol		0.272	0.294	-8.1	140	0.00
40	T	2-Methylnaphthalene		0.688	0.691	-0.4	138	0.00
41	T	1-Methylnaphthalene		0.235	0.244	-3.8	145	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.226	-10.2	150	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.255	-7.6	137	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.277	-10.4	141	0.00
45	S	2-Fluorobiphenyl		0.866	0.868	-0.2	138	0.00

Data Path : I:\8270\SV107\240621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2024 3:25 pm
Operator : SV107:cmm
Sample : WG1937738-3,32,,ABN 10777 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 22 09:10:07 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 02:18:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.731	-2.2	141	0.00
47	T	2-Nitroaniline		0.173	0.204	-17.9	152	0.00
48	T	1,4-Dinitrobenzene		0.087	0.110	-26.4#	189	0.00
49	T	1,3-Dinitrobenzene		0.109	0.125	-14.7	165	0.00
50	T	Dimethyl phthalate		0.839	0.873	-4.1	141	0.00
51	T	Acenaphthylene		1.079	1.120	-3.8	139	0.00
52	T	2,6-Dinitrotoluene		0.153	0.181	-18.3	148	0.00
53	T	1,2-Dinitrobenzene		0.068	0.081	-19.1	151	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	125	0.00
63	T	3-Nitroaniline		0.259	0.324	-25.1#	157	0.00
64	T	Acenaphthene		1.081	1.085	-0.4	139	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.058	-21.2#	193	0.00
66	T	Dibenzofuran		1.757	1.795	-2.2	140	0.00
67	T	2,4-Dinitrotoluene	*	5.000	5.325	-6.5	159	0.00
68	T	4-Nitrophenol		0.221	0.281	-27.1#	169	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.369	-16.0	143	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.351	-11.8	136	0.00
71	T	Diethyl phthalate		1.301	1.397	-7.4	146	0.00
72	T	Fluorene		1.328	1.387	-4.4	140	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.681	-1.3	138	0.00
74	T	4-Nitroaniline		0.262	0.313	-19.5	156	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	5.726	-14.5	191	0.00
76	T	NDPA/DPA		1.131	1.200	-6.1	142	0.00
77	T	Azobenzene		1.259	1.383	-9.8	144	0.00
78	S	2,4,6-Tribromophenol		0.171	0.180	-5.3	127	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.375	0.3	135	0.00
80	T	Hexachlorobenzene		0.431	0.402	6.7	129	0.00
81	T	Pentachlorophenol		0.252	0.264	-4.8	139	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	125	0.00
88	T	Phenanthrene		1.038	1.076	-3.7	143	0.00
89	T	Anthracene		1.030	1.064	-3.3	141	0.00
90	T	Carbazole		0.928	0.982	-5.8	140	0.00
91	T	Di-n-butylphthalate		1.088	1.128	-3.7	136	0.00
92	T	Fluoranthene		1.186	1.233	-4.0	142	0.00
93	T	Benzidine		0.721	0.699	3.1	130	0.00
94	T	Pyrene		1.269	1.321	-4.1	143	0.00
95	S	4-Terphenyl-d14		0.875	0.856	2.2	134	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2024 3:25 pm
Operator : SV107:cmm
Sample : WG1937738-3,32,,ABN 10777 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 22 09:10:07 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 02:18:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.635	7.3	141	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	121	0.00
104	T	Benzo(a)anthracene		1.335	1.366	-2.3	136	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.470	-9.3	132	0.00
106	T	Chrysene		1.276	1.306	-2.4	136	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.917	1.7	138	0.00
108	T	Di-n-octylphthalate	*	5.000	4.954	0.9	147	0.00
109	T	Benzo(b)fluoranthene		1.178	1.303	-10.6	142	0.00
110	T	Benzo(k)fluoranthene		1.154	1.185	-2.7	130	0.00
111	T	Benzo(a)pyrene		1.025	1.142	-11.4	141	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	117	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.060	-11.3	140	0.00
114	T	Dibenzo(a,h)anthracene		0.953	1.101	-15.5	134	0.00
115	T	Benzo(ghi)perylene		0.928	1.058	-14.0	141	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2024 3:25 pm
Operator : SV107:cmm
Sample : WG1937738-3,32,,ABN 10777 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 22 09:10:07 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 02:18:32 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.925	152	66483	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	7.419	136	248398	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	9.195	164	154514	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	10.619	188	316410	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	13.218	240	283013	4.000	ug/ml	0.00
112) IS1_Perylene-d12	14.654	264	281875	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.543	112	93853	5.282	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 264.10%#			
7) Phenol-d6	5.560	99	117753	5.360	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.00%#			
19) Nitrobenzene-d5	6.631	82	114178	5.898	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 589.80%#			
45) 2-Fluorobiphenyl	8.566	172	269526	5.011	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 501.10%#			
78) 2,4,6-Tribromophenol	9.960	330	34718	5.270	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 263.50%#			
95) 4-Terphenyl-d14	12.201	244	338380	4.888	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 488.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.590	74	64584	5.522	ug/ml#	71
3) Pyridine	1.619	79	110031	5.520	ug/ml#	63
5) Aniline	5.484	93	149353	5.246	ug/ml	98
6) 2-Chlorophenol	5.642	128	102213	5.219	ug/ml	96
8) Phenol	5.578	94	127184	5.321	ug/ml	98
9) Bis(2-chloroethyl)ether	5.642	93	104253	5.293	ug/ml#	82
10) 1,3-Dichlorobenzene	5.842	146	126391	5.238	ug/ml	98
11) 1,4-Dichlorobenzene	5.948	146	127941	5.209	ug/ml	99
12) 1,2-Dichlorobenzene	6.137	146	123035	5.192	ug/ml	98
13) Benzyl alcohol	6.172	79	86044	5.175	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.360	45	154785	5.738	ug/ml#	54
15) 2-Methylphenol	6.366	108	89095	5.200	ug/ml	97
16) Hexachloroethane	6.548	117	48876	5.396	ug/ml#	66
17) n-Nitrosodi-n-propylamine	6.513	70	78835	5.394	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.566	108	98427	5.461	ug/ml	98
20) Nitrobenzene	6.648	77	114654	5.763	ug/ml	97
21) Isophorone	6.948	82	202900	5.284	ug/ml	95
22) 2-Nitrophenol	7.025	139	52780	5.956	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2024 3:25 pm
Operator : SV107:cmm
Sample : WG1937738-3,32,,ABN 10777 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 22 09:10:07 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 02:18:32 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.148	107	95309	5.272	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.242	93	133486	5.327	ug/ml	99
25) 2,4-Dichlorophenol	7.301	162	101268	5.570	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.378	180	113740	5.190	ug/ml	98
35) Naphthalene	7.436	128	317512	5.134	ug/ml	99
36) Benzoic Acid	7.266	105	68499	5.898	ug/ml	93
37) 4-Chloroaniline	7.536	65	42039	5.389	ug/ml	93
38) Hexachlorobutadiene	7.619	225	67425	5.154	ug/ml	98
39) p-Chloro-m-cresol	8.084	107	91221	5.395	ug/ml	97
40) 2-Methylnaphthalene	8.172	142	214662	5.022	ug/ml	94
41) 1-Methylnaphthalene	8.266	115	75882	5.205	ug/ml	94
42) Hexachlorocyclopentadiene	8.354	237	70091	5.500	ug/ml	98
43) 2,4,6-Trichlorophenol	8.478	196	79211	5.387	ug/ml	99
44) 2,4,5-Trichlorophenol	8.507	196	86152	5.524	ug/ml	98
46) 2-Chloronaphthalene	8.648	162	226890	5.108	ug/ml	95
47) 2-Nitroaniline	8.772	138	63226	5.884	ug/ml	94
48) 1,4-Dinitrobenzene	8.907	168	34023	6.299	ug/ml	80
49) 1,3-Dinitrobenzene	8.983	168	38952	5.769	ug/ml#	1
50) Dimethyl phthalate	8.989	163	271198	5.207	ug/ml#	98
51) Acenaphthylene	9.048	152	347814	5.189	ug/ml	98
52) 2,6-Dinitrotoluene	9.025	165	56157	5.928	ug/ml#	86
53) 1,2-Dinitrobenzene	9.060	168	25088	5.927	ug/ml#	1
63) 3-Nitroaniline	9.178	138	62519	6.237	ug/ml	97
64) Acenaphthene	9.225	154	209586	5.019	ug/ml	92
65) 2,4-Dinitrophenol	9.278	184	33854	6.058	ug/ml	90
66) Dibenzofuran	9.395	168	346711	5.110	ug/ml#	83
67) 2,4-Dinitrotoluene	9.413	165	79798	5.325	ug/ml#	82
68) 4-Nitrophenol	9.383	65	54221	6.340	ug/ml#	32
69) 2,3,5,6-Tetrachlorophenol	9.489	232	71305	5.809	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.536	232	67738	5.589	ug/ml	98
71) Diethyl phthalate	9.683	149	269867	5.368	ug/ml	98
72) Fluorene	9.725	166	267929	5.222	ug/ml	93
73) 4-Chlorophenyl phenyl ...	9.754	204	131468	5.065	ug/ml	90
74) 4-Nitroaniline	9.760	138	60435	5.960	ug/ml#	87
75) 4,6-Dinitro-o-cresol	9.801	198	46096	5.726	ug/ml#	66
76) NDPA/DPA	9.872	169	231778	5.303	ug/ml	93
77) Azobenzene	9.901	77	267073	5.491	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.225	248	72520	4.988	ug/ml#	90
80) Hexachlorobenzene	10.266	284	77666	4.666	ug/ml	90
81) Pentachlorophenol	10.460	266	50911	5.240	ug/ml	99
88) Phenanthrene	10.642	178	425740	5.185	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2024 3:25 pm
Operator : SV107:cmm
Sample : WG1937738-3,32,,ABN 10777 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 22 09:10:07 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 02:18:32 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	10.689	178	420756	5.165	ug/ml	98
90)	Carbazole	10.866	167	388274	5.289	ug/ml	97
91)	Di-n-butylphthalate	11.277	149	446073	5.182	ug/ml	98
92)	Fluoranthene	11.789	202	487736	5.200	ug/ml#	92
93)	Benzidine	11.954	184	276293	4.847	ug/ml#	95
94)	Pyrene	12.001	202	522612	5.207	ug/ml	98
96)	Butyl benzyl phthalate	12.724	149	187960	4.635	ug/ml	94
104)	Benzo(a)anthracene	13.207	228	483334	5.118	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.218	252	166114	5.462	ug/ml	98
106)	Chrysene	13.242	228	461863	5.117	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.366	149	299395	4.917	ug/ml#	95
108)	Di-n-octylphthalate	14.030	149	491457	4.954	ug/ml#	74
109)	Benzo(b)fluoranthene	14.295	252	460984	5.531	ug/ml#	95
110)	Benzo(k)fluoranthene	14.318	252	419320	5.136	ug/ml#	94
111)	Benzo(a)pyrene	14.595	252	404174	5.571	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	15.601	276	373467M6	5.567	ug/mL	
114)	Dibenzo(a,h)anthracene	15.624	278	387975	5.777	ug/ml#	93
115)	Benzo(ghi)perylene	15.812	276	372870	5.703	ug/ml#	91

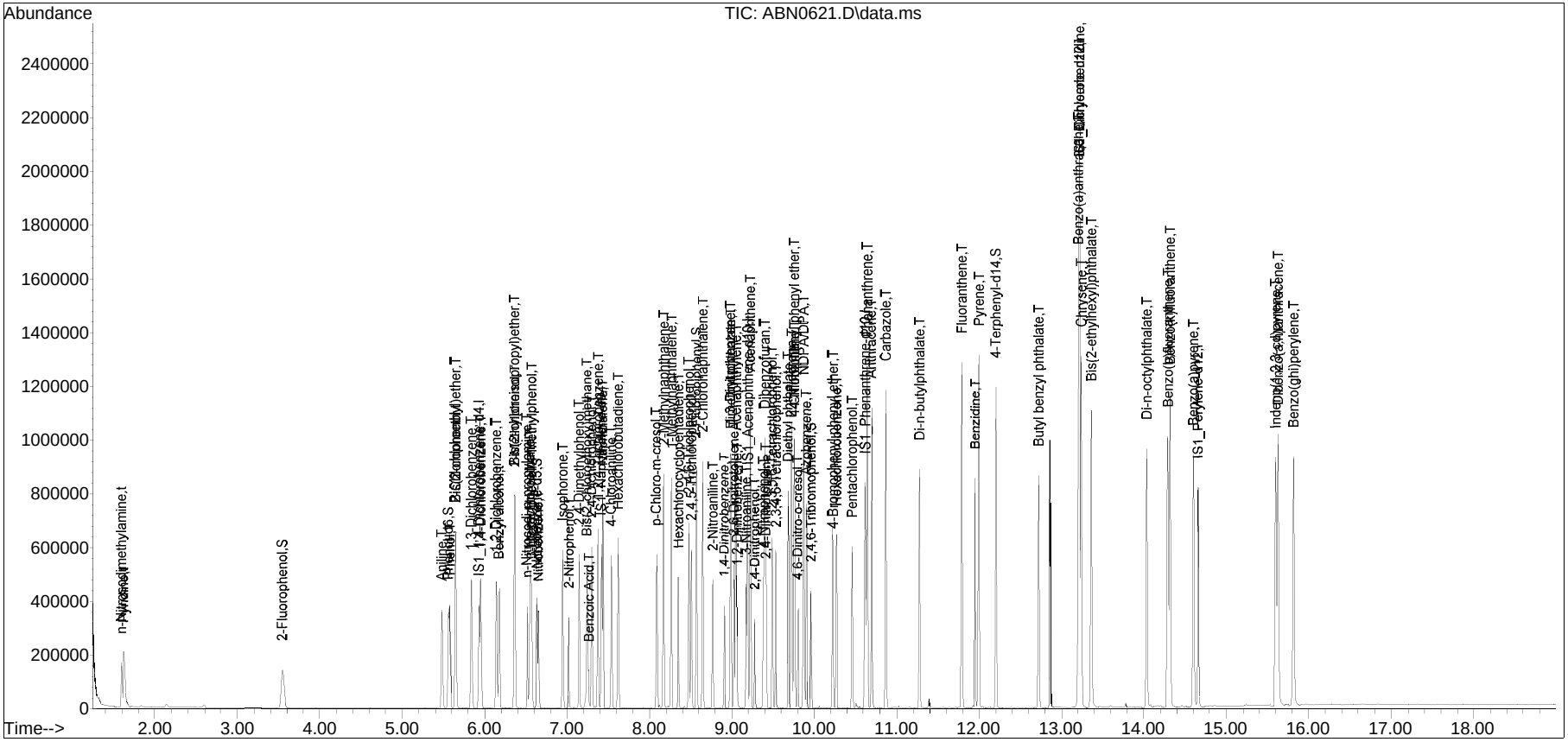
(#) = qualifier out of range (m) = manual integration (+) = signals summed

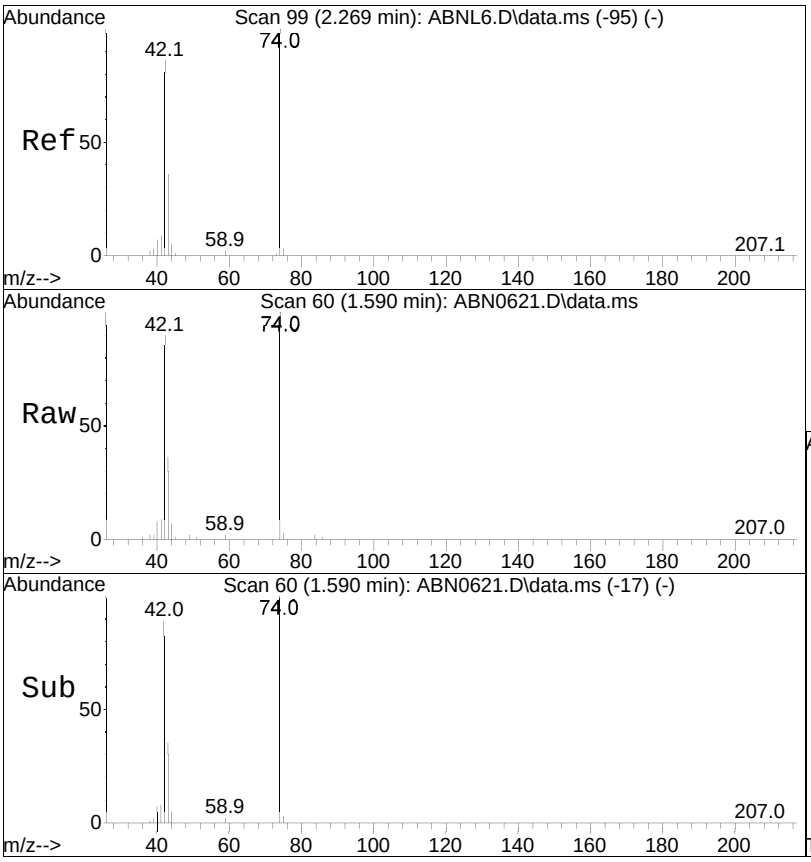
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2024 3:25 pm
Operator : SV107:cmm
Sample : WG1937738-3,32,,ABN 10777 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 22 09:10:07 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 02:18:32 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

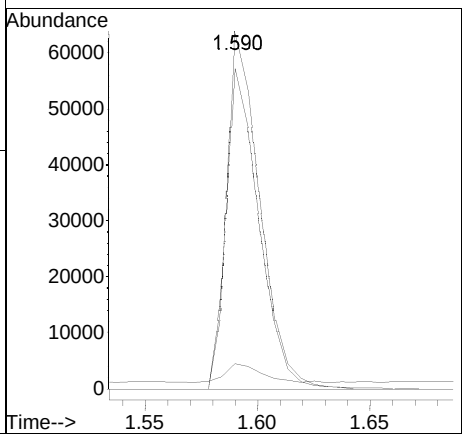


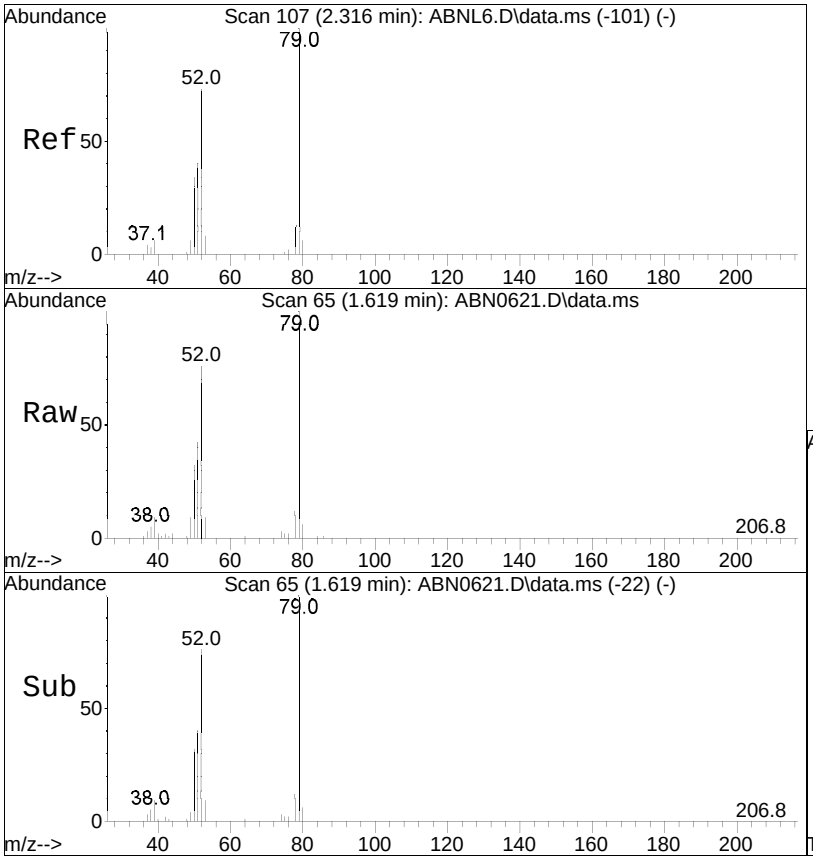


#2
n-Nitrosodimethylamine
Concen: 5.52 ug/ml
RT: 1.590 min Scan# 60
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 74 Resp: 64584

Ion	Ratio	Lower	Upper
74	100		
42	90.1	100.0	150.0#
44	5.9	6.7	10.1#

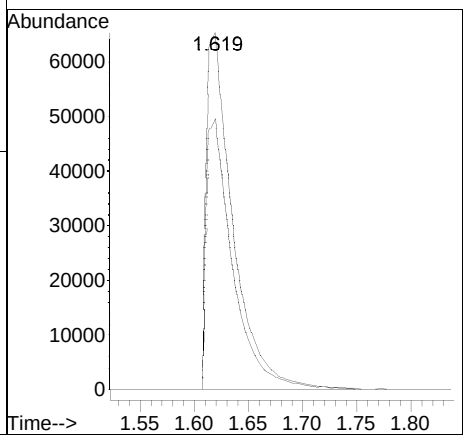


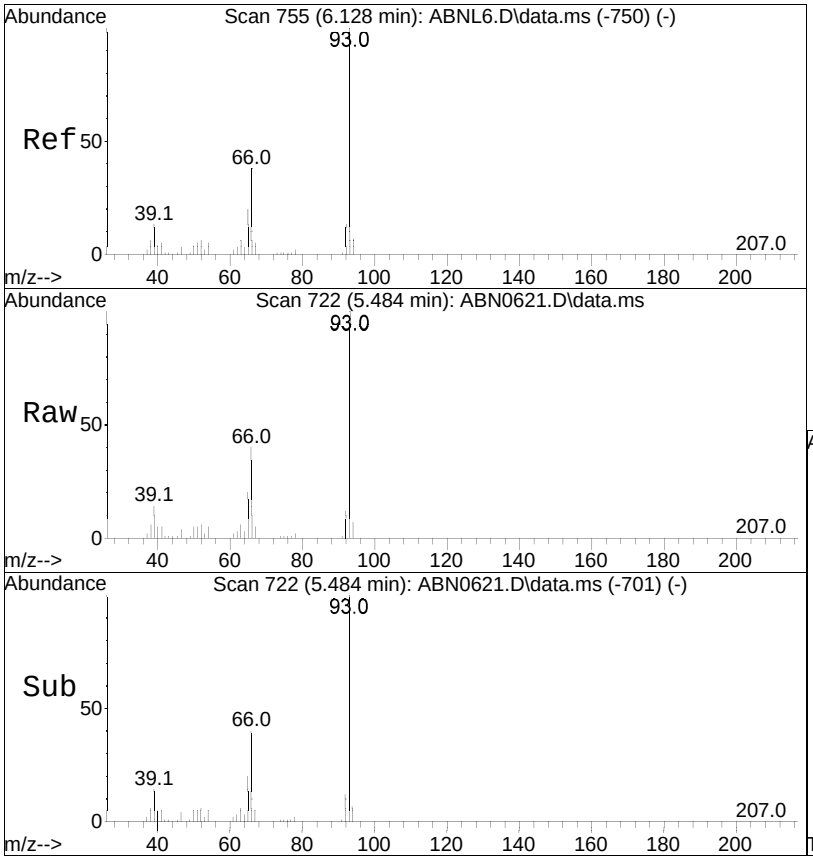


#3
Pyridine
Concen: 5.52 ug/ml
RT: 1.619 min Scan# 65
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 79 Resp: 110031

Ion	Ratio	Lower	Upper
79	100		
52	75.5	93.1	139.7#

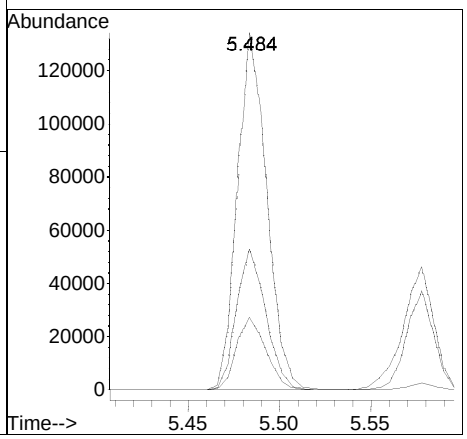


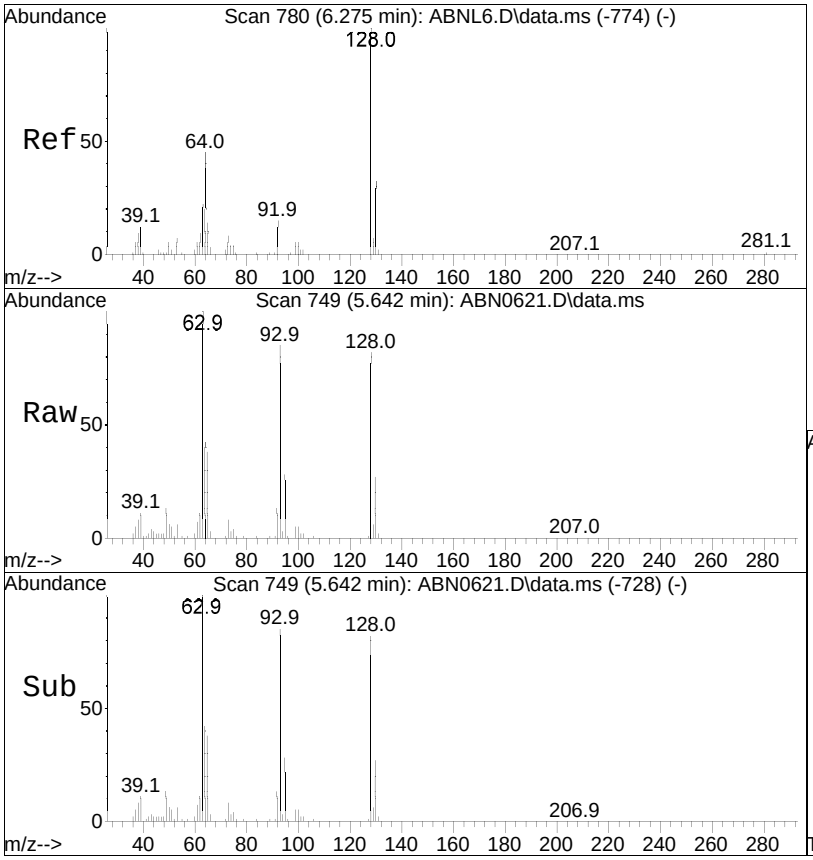


#5
Aniline
Concen: 5.25 ug/ml
RT: 5.484 min Scan# 722
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 93 Resp: 149353

Ion	Ratio	Lower	Upper
93	100		
66	39.6	32.6	49.0
65	20.5	17.6	26.4

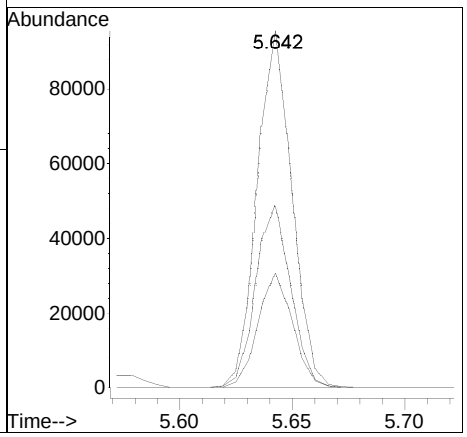


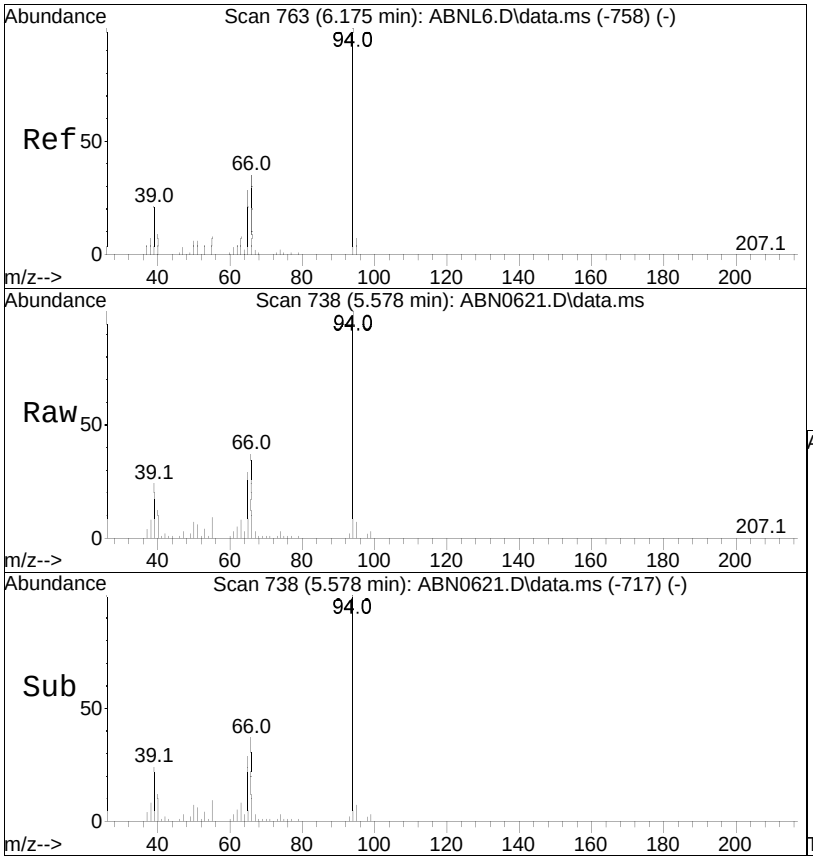


#6
2-Chlorophenol
Concen: 5.22 ug/ml
RT: 5.642 min Scan# 749
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:128 Resp: 102213

Ion	Ratio	Lower	Upper
128	100		
64	51.9	45.1	67.7
130	32.2	26.2	39.4

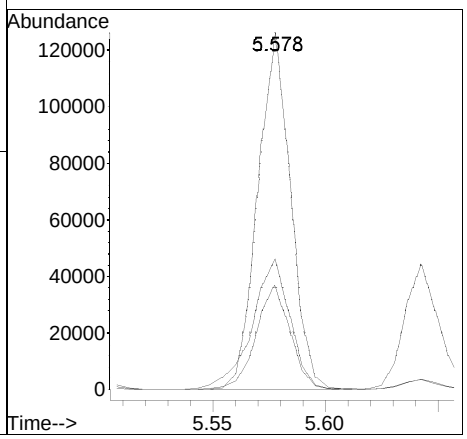


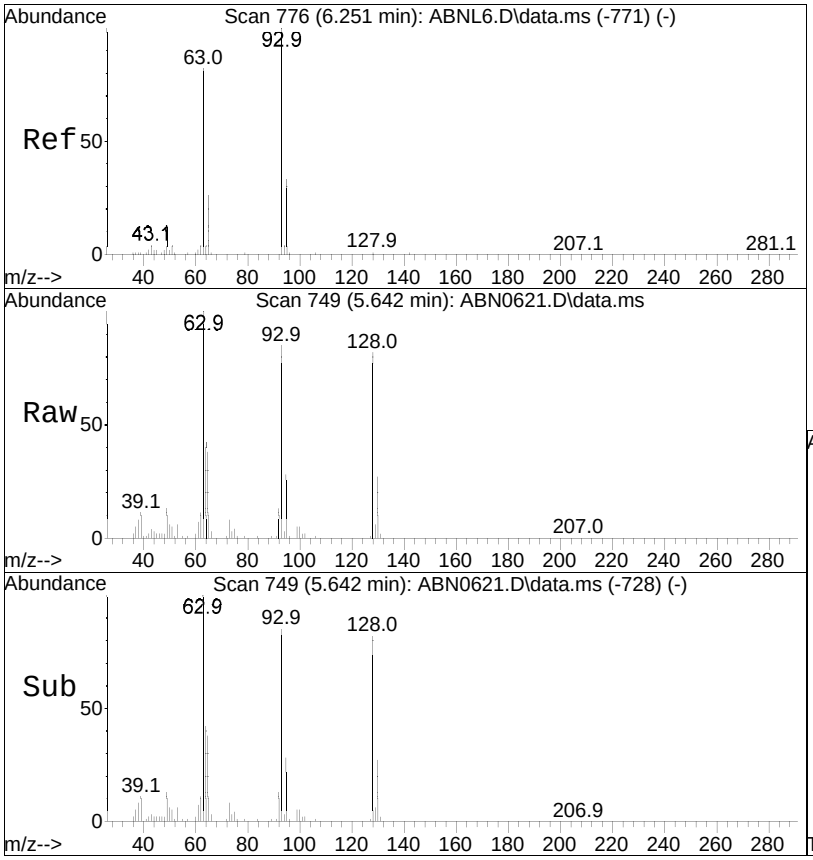


#8
Phenol
Concen: 5.32 ug/ml
RT: 5.578 min Scan# 738
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 94 Resp: 127184

Ion	Ratio	Lower	Upper
94	100		
65	30.7	26.0	39.0
66	42.8	33.8	50.8

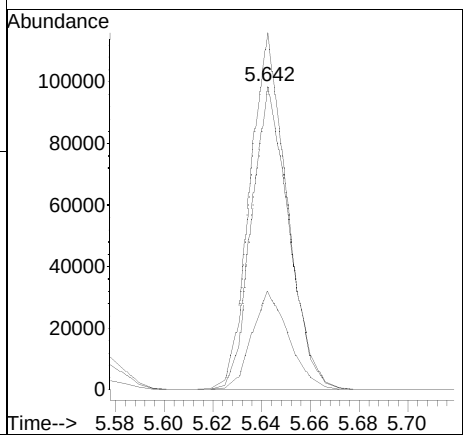


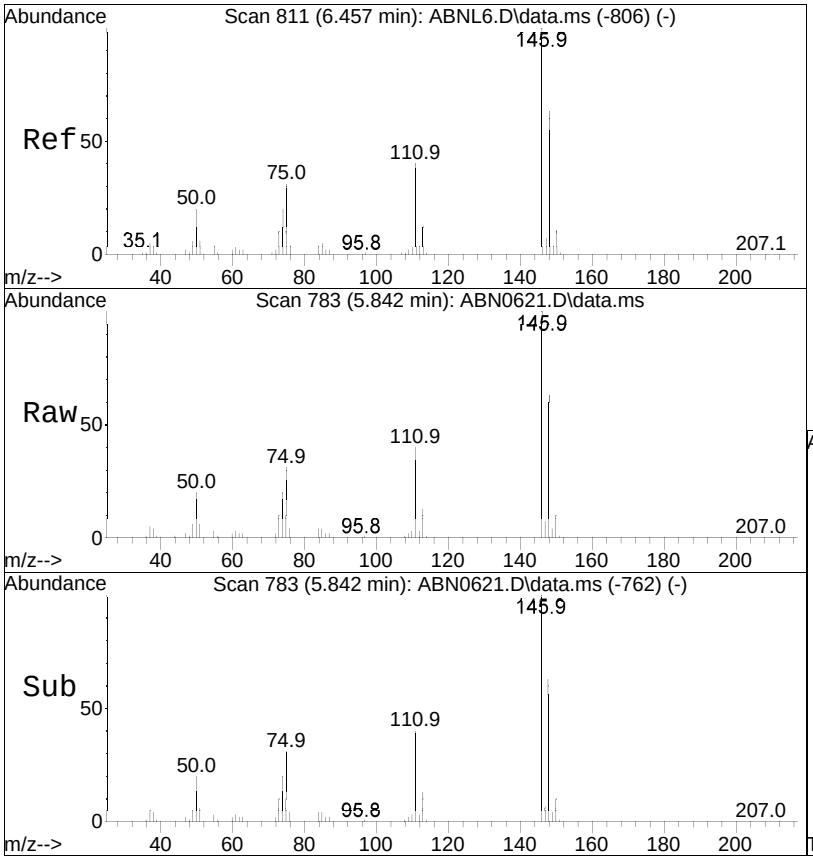


#9
Bis(2-chloroethyl)ether
Concen: 5.29 ug/ml
RT: 5.642 min Scan# 749
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 93 Resp: 104253

Ion	Ratio	Lower	Upper
93	100		
63	116.6	74.6	111.8#
95	32.2	25.9	38.9

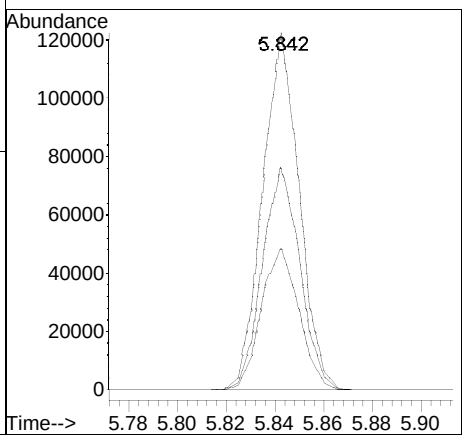


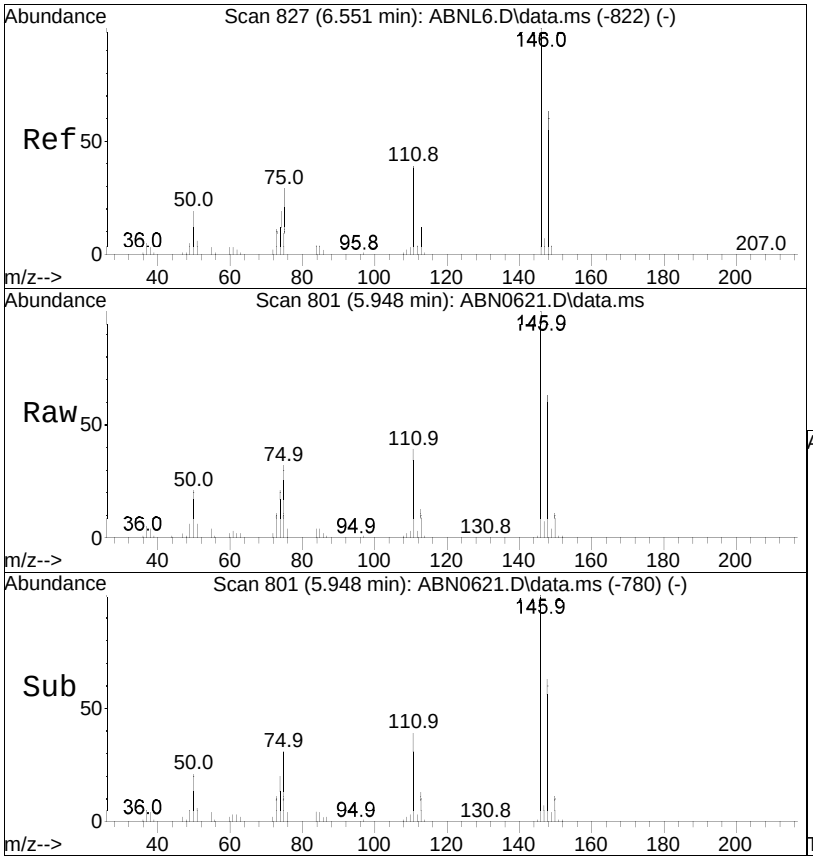


#10
1,3-Dichlorobenzene
Concen: 5.24 ug/ml
RT: 5.842 min Scan# 783
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:146 Resp: 126391

Ion	Ratio	Lower	Upper
146	100		
111	41.0	34.3	51.5
148	64.0	50.8	76.2

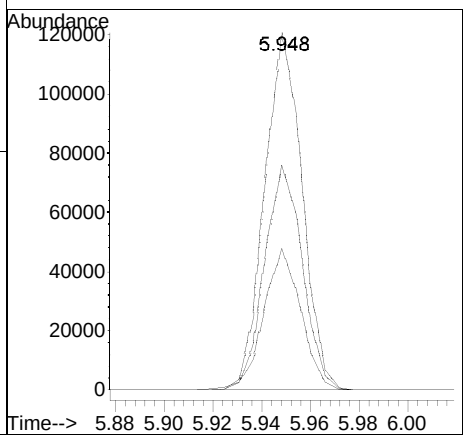


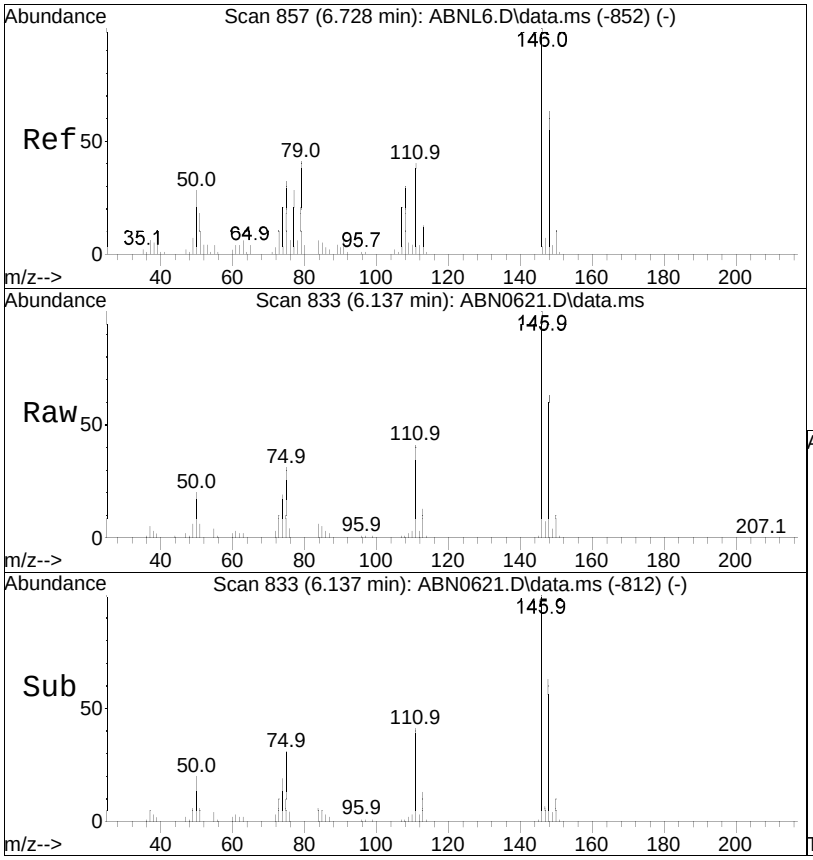


#11
1,4-Dichlorobenzene
Concen: 5.21 ug/ml
RT: 5.948 min Scan# 801
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:146 Resp: 127941

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.7	76.1
111	39.4	33.4	50.0

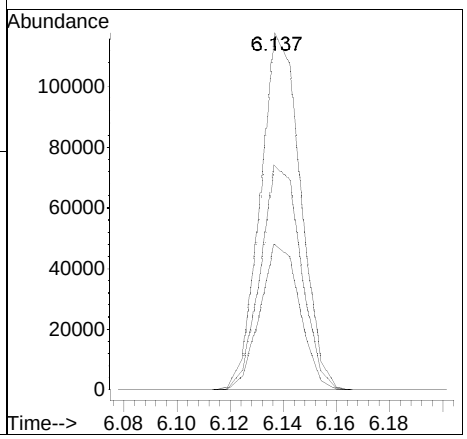


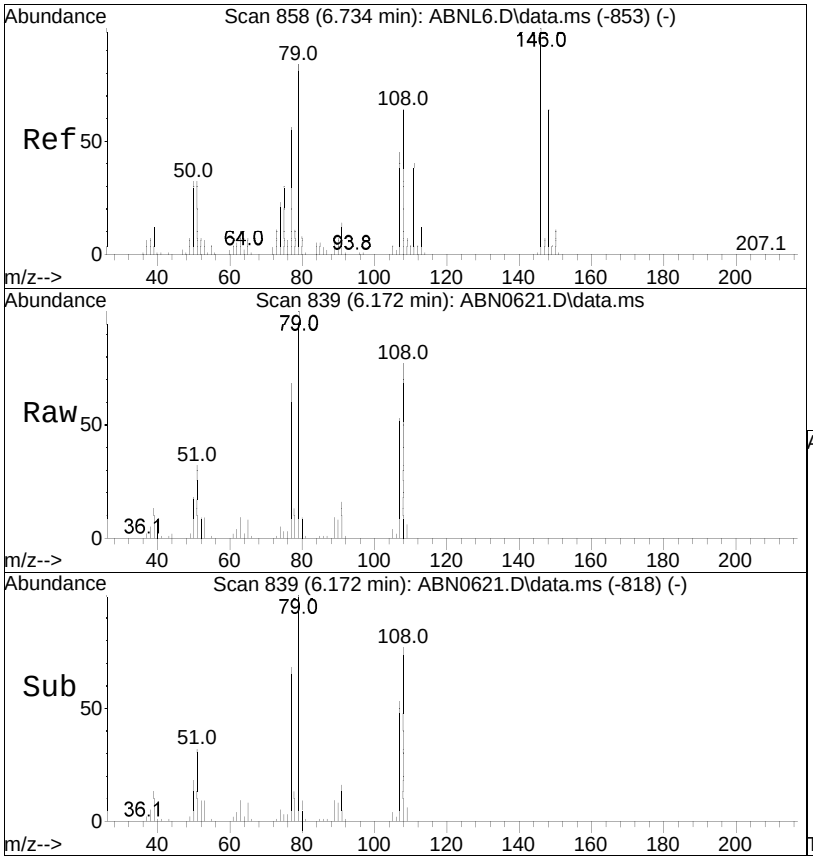


#12
1,2-Dichlorobenzene
Concen: 5.19 ug/ml
RT: 6.137 min Scan# 833
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:146 Resp: 123035

Ion	Ratio	Lower	Upper
146	100		
111	40.5	34.6	52.0
148	63.3	50.2	75.4

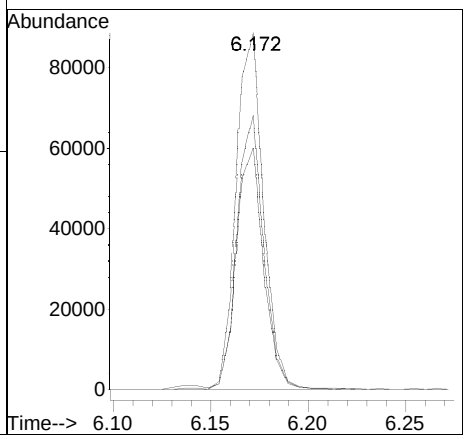


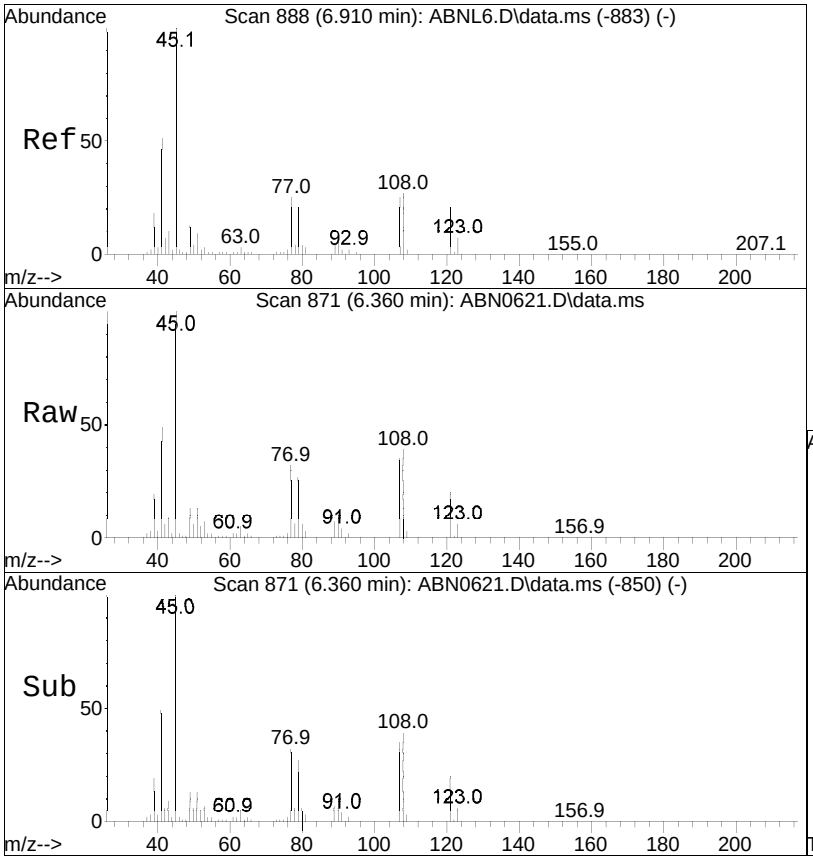


#13
Benzyl alcohol
Concen: 5.17 ug/ml
RT: 6.172 min Scan# 839
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 79 Resp: 86044

Ion	Ratio	Lower	Upper
79	100		
77	67.8	54.9	82.3
108	75.9	63.1	94.7

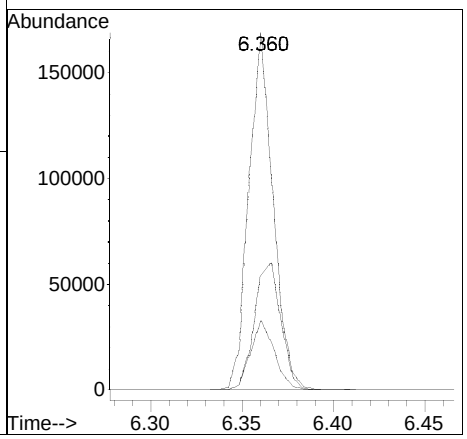


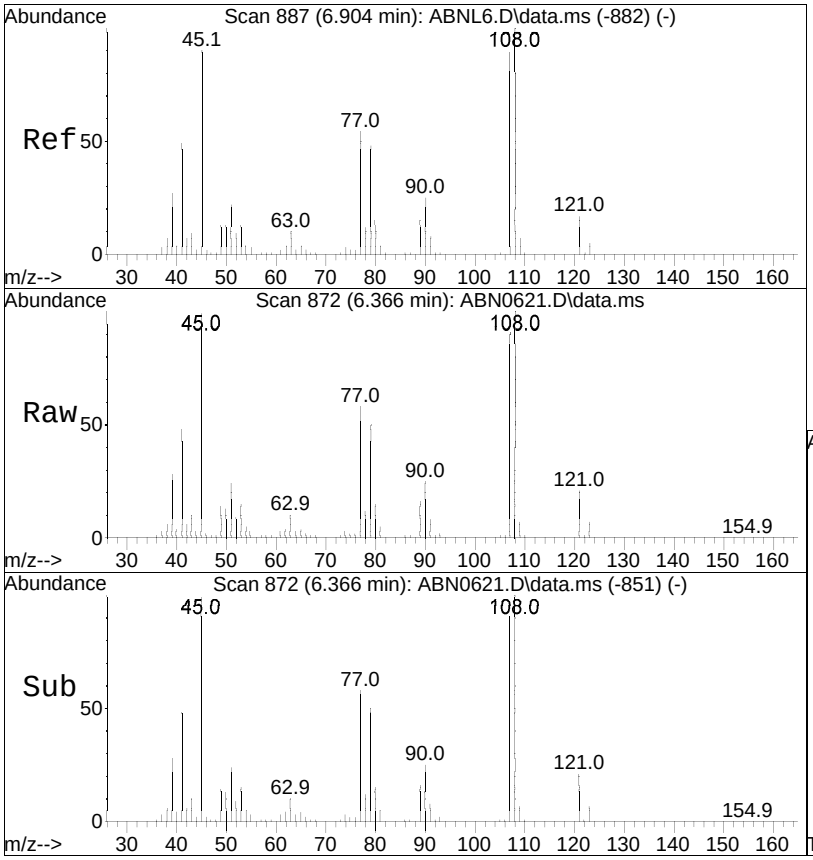


#14
Bis(2-chloroisopropyl)ether
Concen: 5.74 ug/ml
RT: 6.360 min Scan# 871
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 45 Resp: 154785

Ion	Ratio	Lower	Upper
45	100		
121	19.4	9.8	14.6#
77	39.3	6.1	9.1#

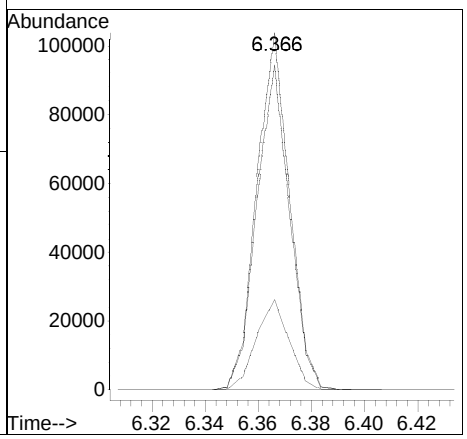


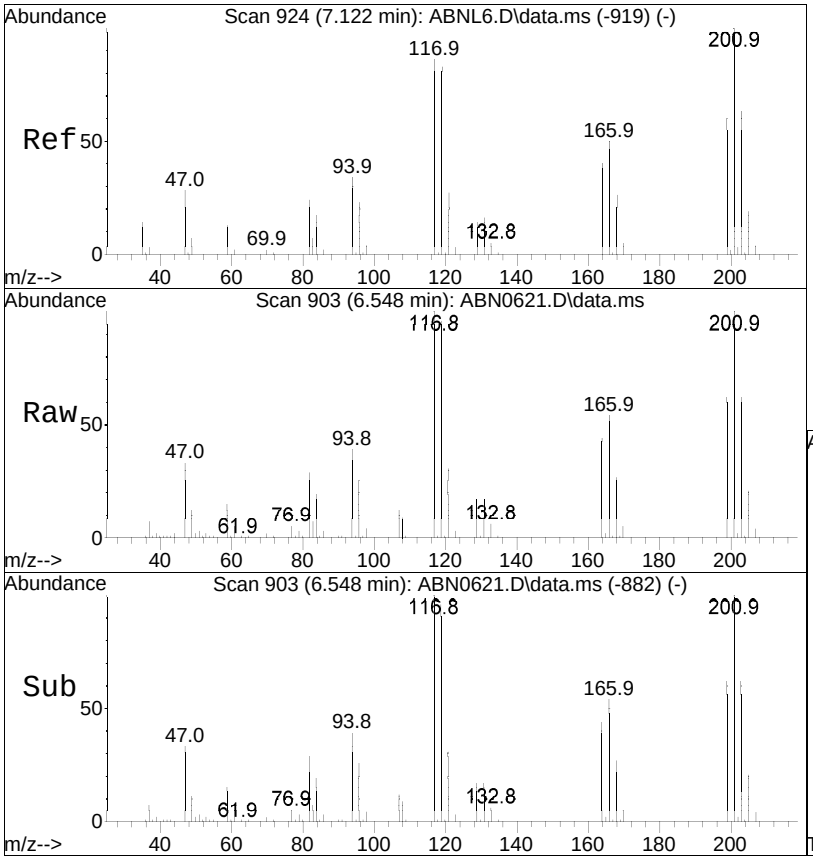


#15
2-Methylphenol
Concen: 5.20 ug/ml
RT: 6.366 min Scan# 872
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:108 Resp: 89095

Ion	Ratio	Lower	Upper
108	100		
107	91.2	70.7	106.1
90	25.5	18.7	28.1

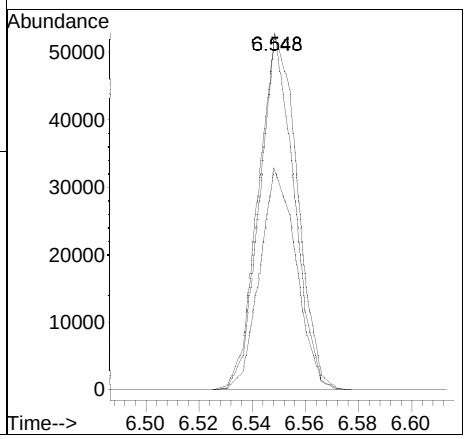


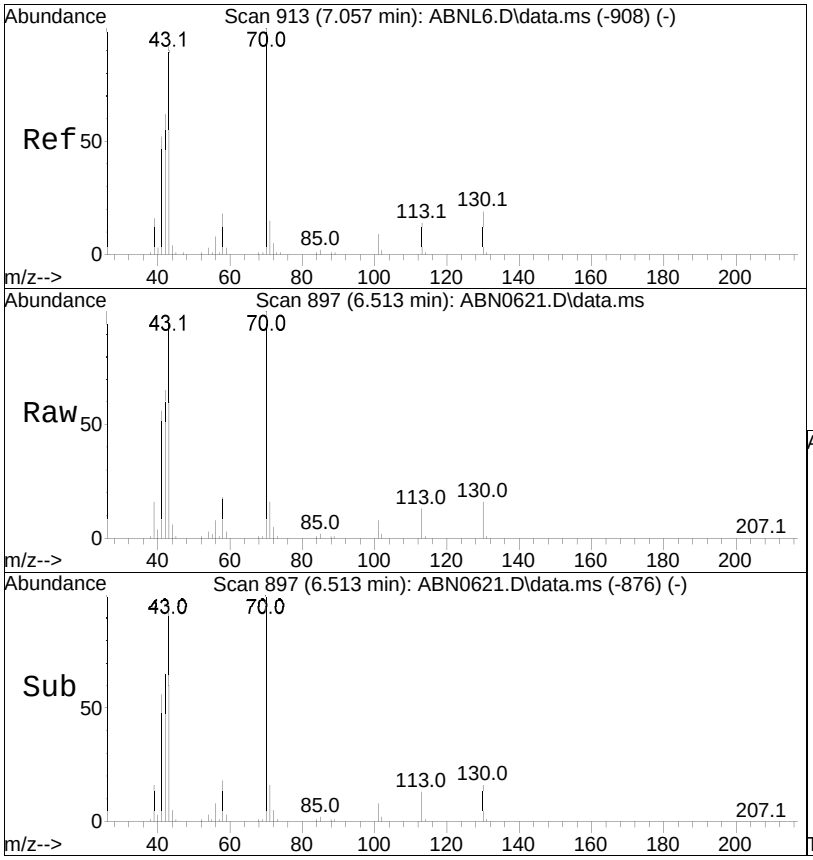


#16
Hexachloroethane
Concen: 5.40 ug/ml
RT: 6.548 min Scan# 903
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:117 Resp: 48876

Ion	Ratio	Lower	Upper
117	100		
201	105.3	58.6	87.8#
199	63.7	36.9	55.3#

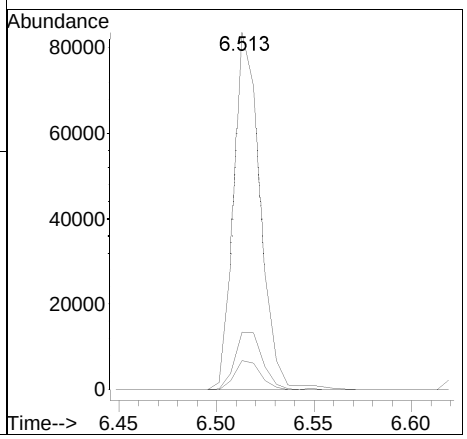


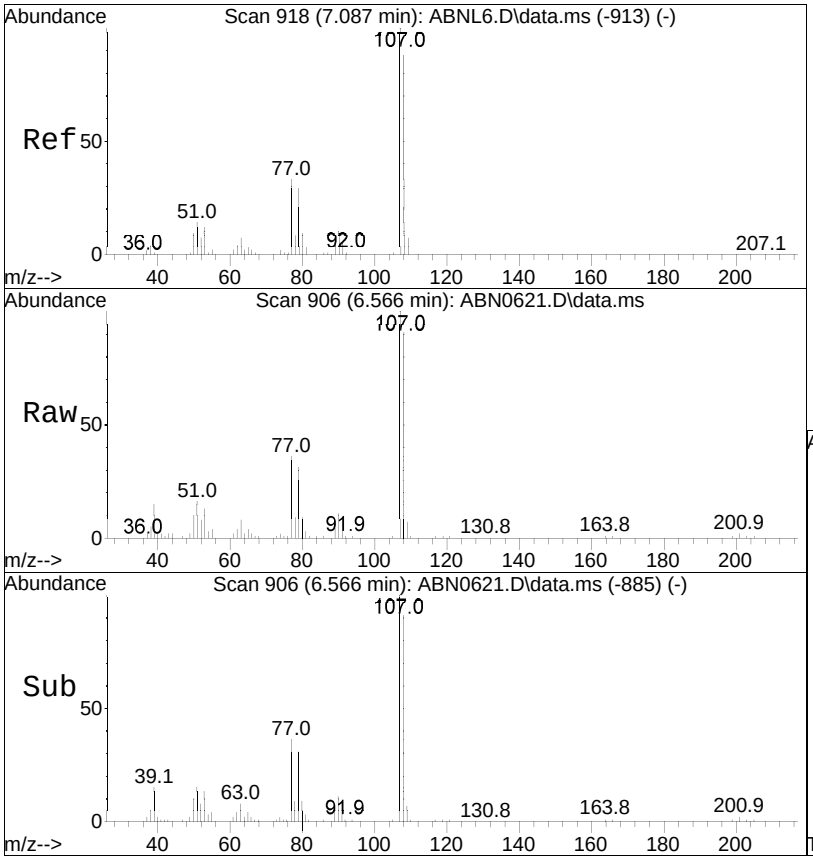


#17
n-Nitrosodi-n-propylamine
Concen: 5.39 ug/ml
RT: 6.513 min Scan# 897
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 70 Resp: 78835

Ion	Ratio	Lower	Upper
70	100		
130	16.8	18.2	27.4#
101	8.0	7.8	11.8

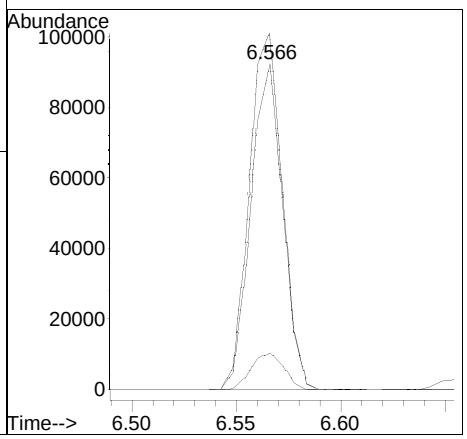


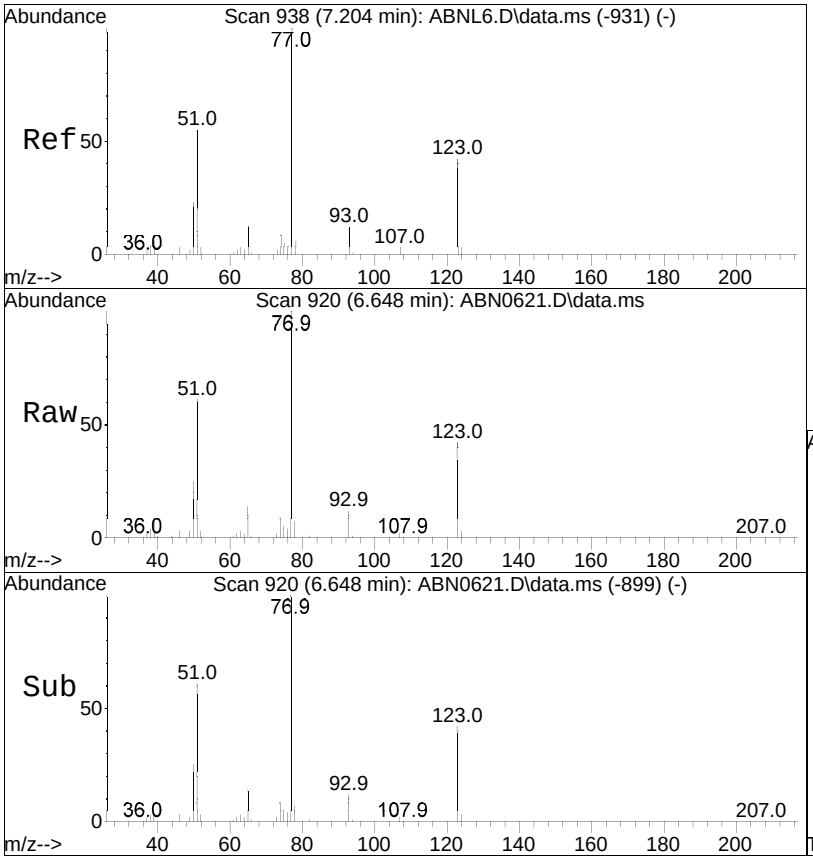


#18
3-Methylphenol/4-Methylphenol
Concen: 5.46 ug/ml
RT: 6.566 min Scan# 906
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:108 Resp: 98427

Ion	Ratio	Lower	Upper
108	100		
107	113.4	88.6	132.8
90	11.8	8.8	13.2

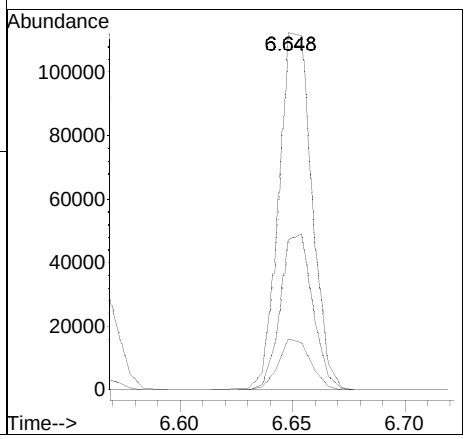


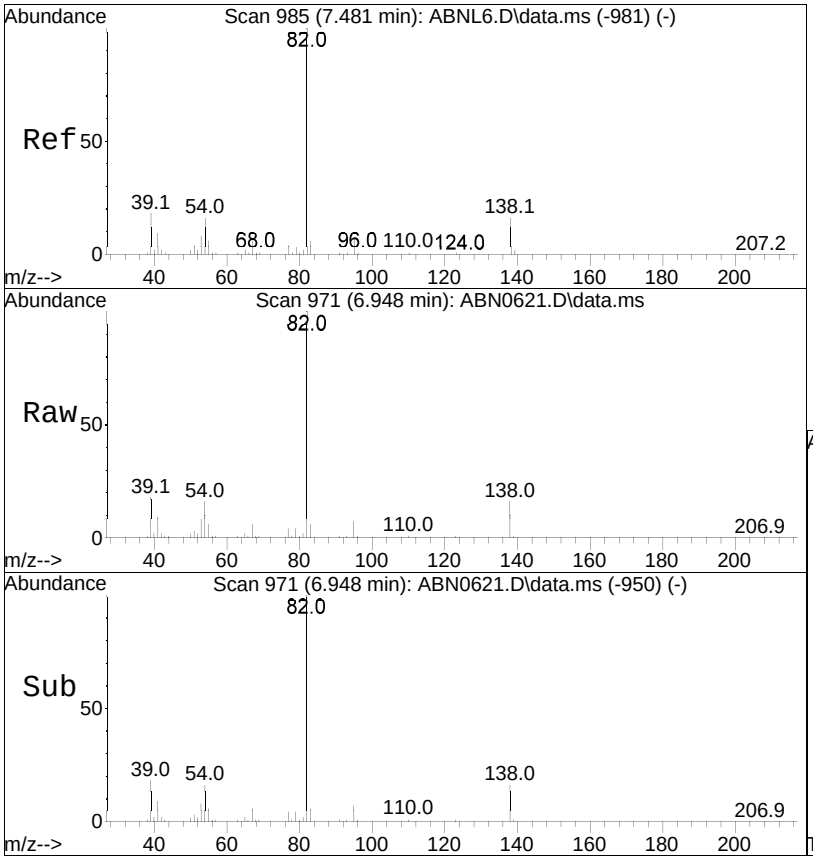


#20
Nitrobenzene
Concen: 5.76 ug/ml
RT: 6.648 min Scan# 920
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 77 Resp: 114654

Ion	Ratio	Lower	Upper
77	100		
123	42.7	36.3	54.5
65	13.9	11.6	17.4

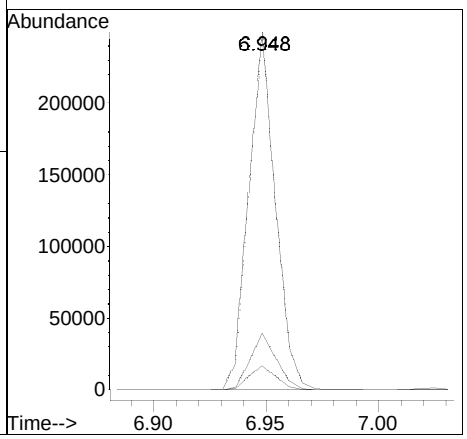


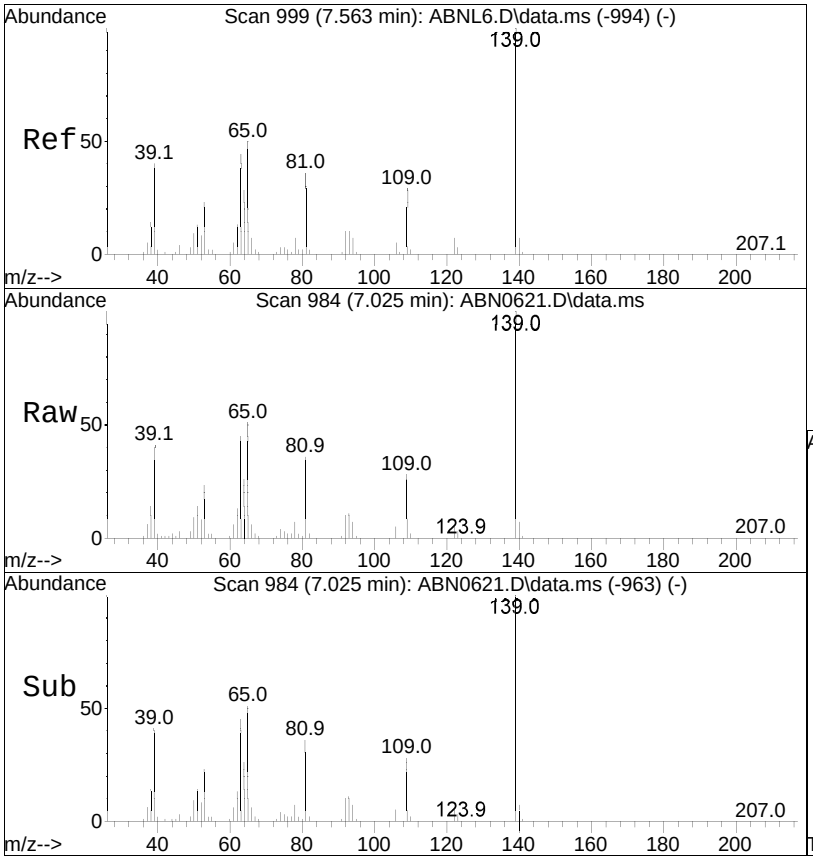


#21
Isophorone
Concen: 5.28 ug/ml
RT: 6.948 min Scan# 971
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 82 Resp: 202900

Ion	Ratio	Lower	Upper
82	100		
138	15.7	14.7	22.1
95	7.0	5.2	7.8

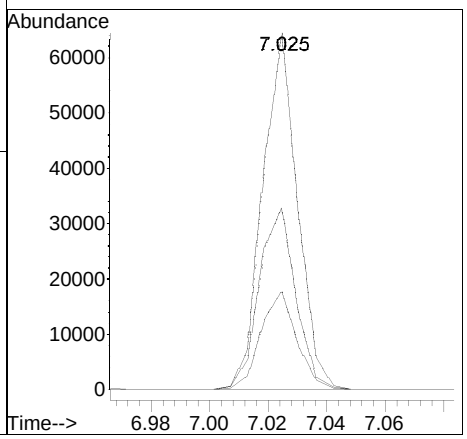


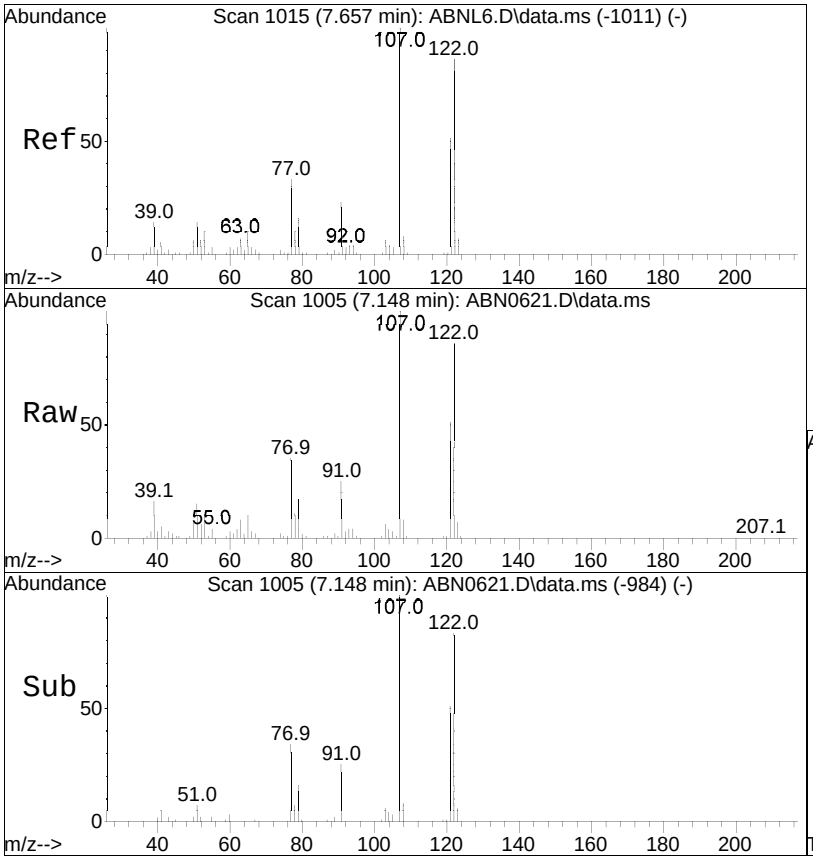


#22
2-Nitrophenol
Concen: 5.96 ug/ml
RT: 7.025 min Scan# 984
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:139 Resp: 52780

Ion	Ratio	Lower	Upper
139	100		
109	28.5	19.4	29.0
65	53.6	46.1	69.1

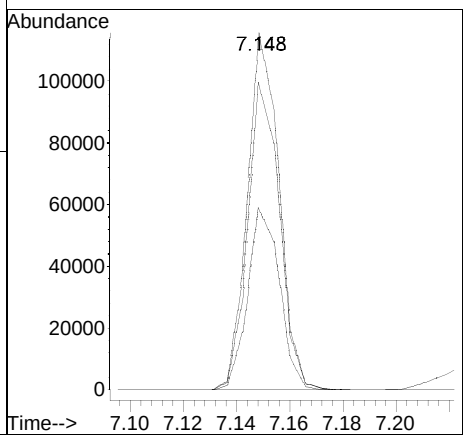


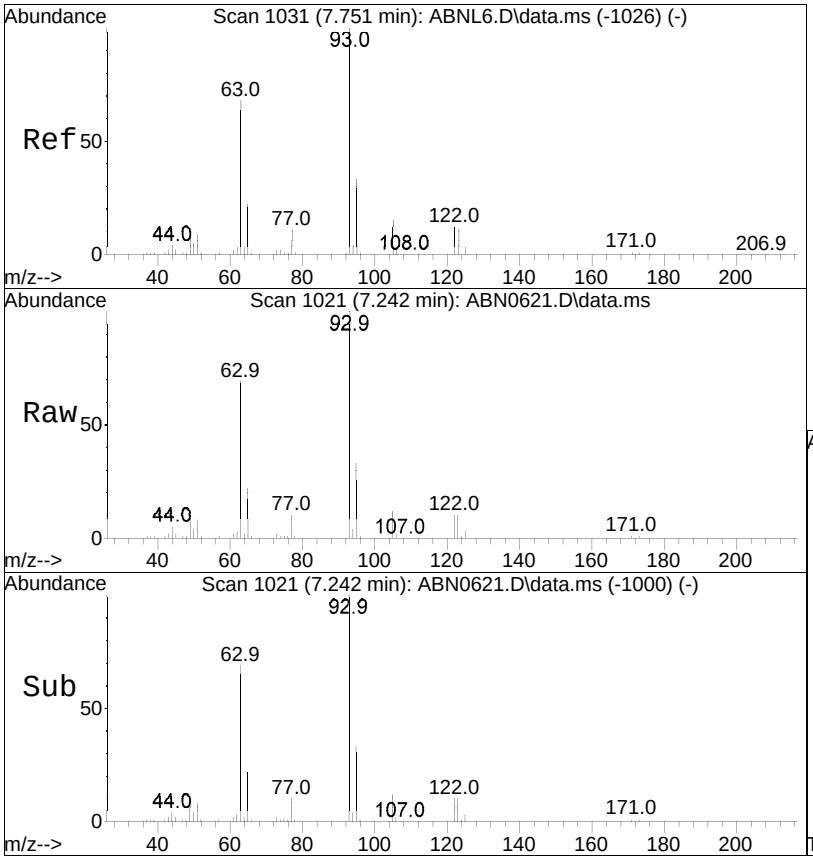


#23
2,4-Dimethylphenol
Concen: 5.27 ug/ml
RT: 7.148 min Scan# 1005
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:107 Resp: 95309

Ion	Ratio	Lower	Upper
107	100		
121	51.4	40.0	60.0
122	86.2	70.2	105.4

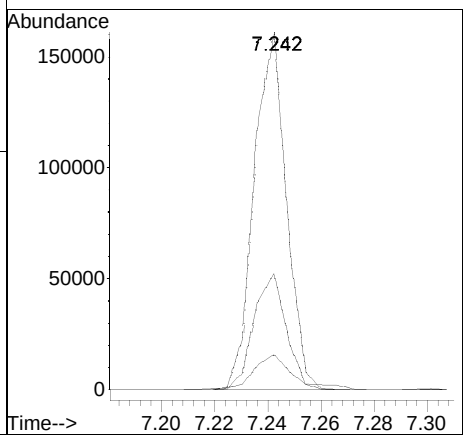


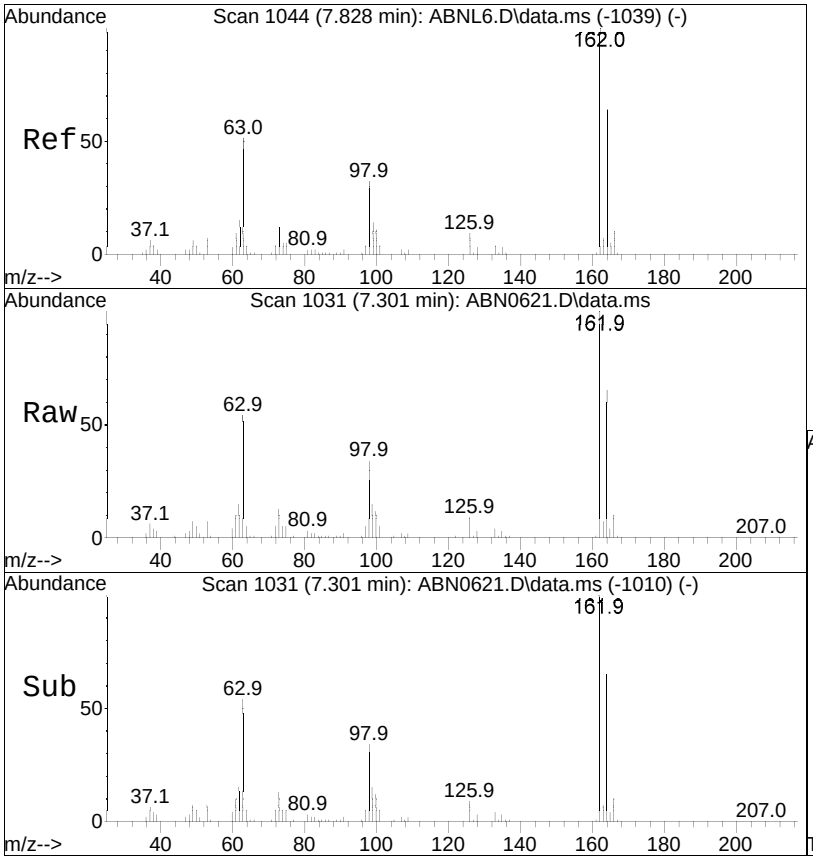


#24
Bis(2-chloroethoxy)methane
Concen: 5.33 ug/ml
RT: 7.242 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 93 Resp: 133486

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	12.3	10.1	15.1

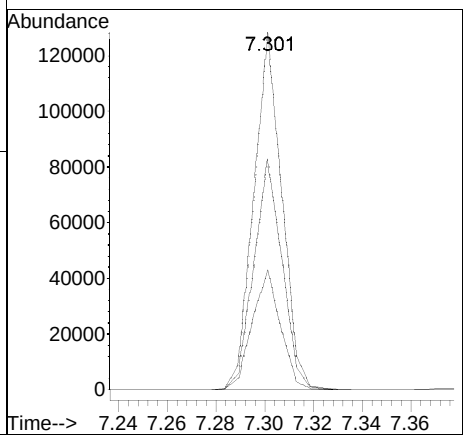


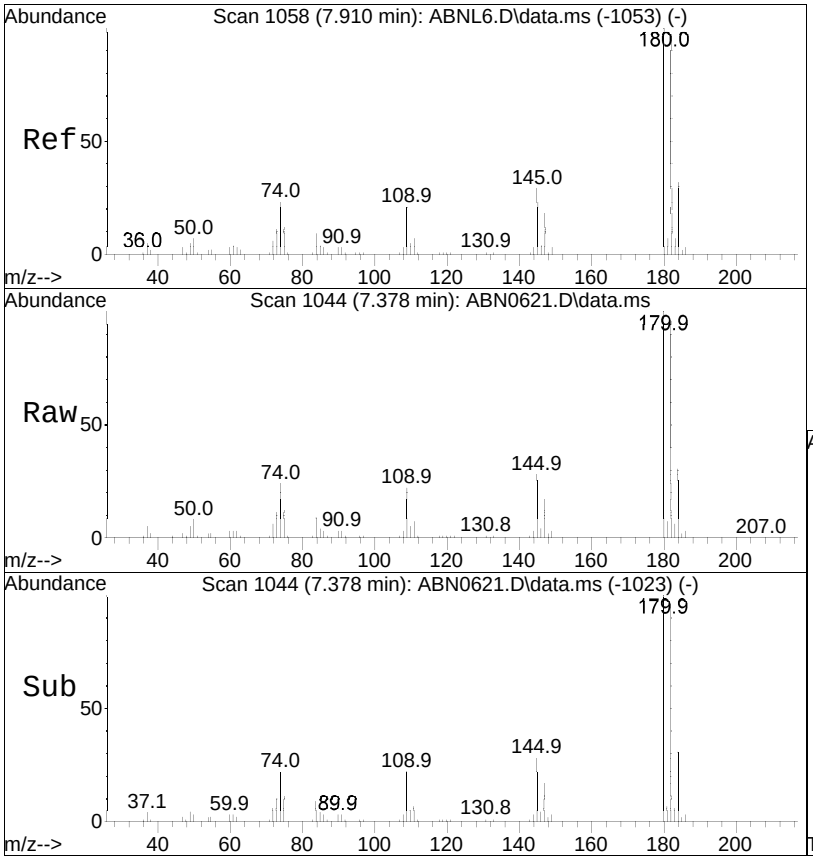


#25
2,4-Dichlorophenol
Concen: 5.57 ug/ml
RT: 7.301 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:162 Resp: 101268

Ion	Ratio	Lower	Upper
162	100		
164	65.1	51.0	76.4
98	34.0	32.2	48.2

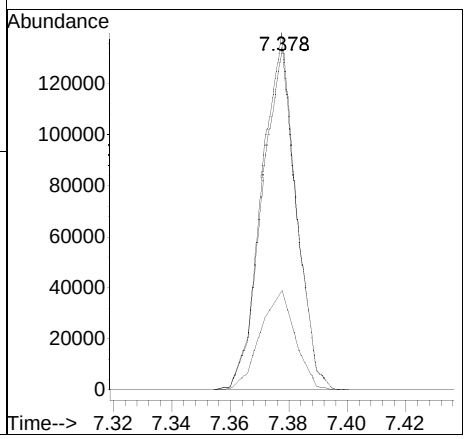


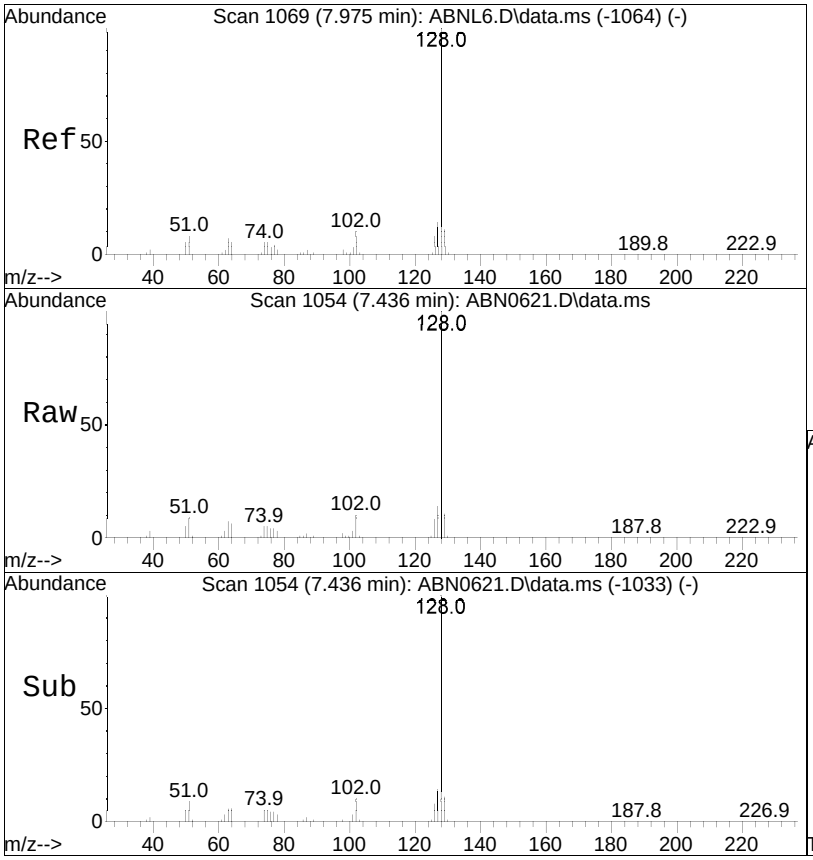


#26
1,2,4-Trichlorobenzene
Concen: 5.19 ug/ml
RT: 7.378 min Scan# 1044
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:180 Resp: 113740

Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.0	114.0
145	28.4	25.7	38.5

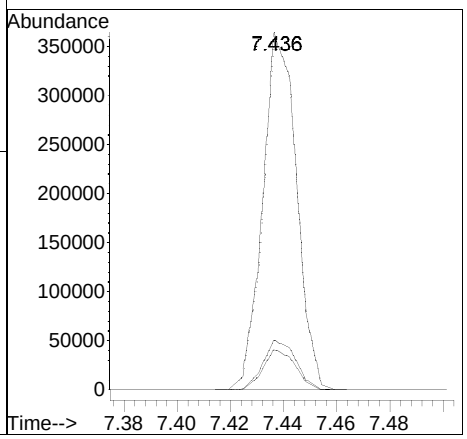


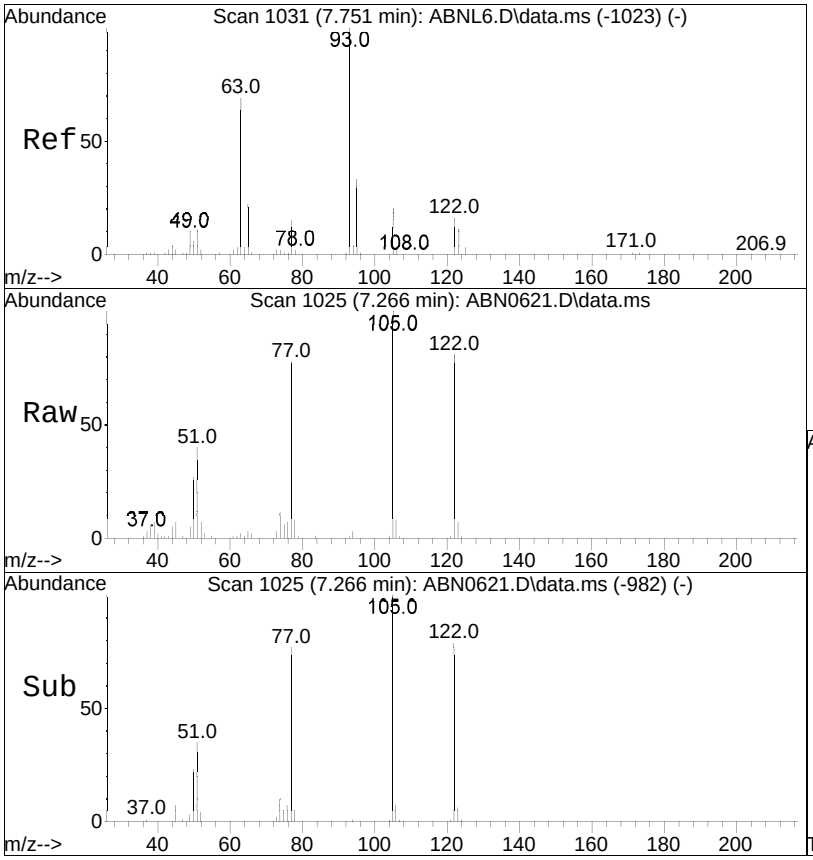


#35
Naphthalene
Concen: 5.13 ug/ml
RT: 7.436 min Scan# 1054
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:128 Resp: 317512

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.7	10.3	15.5

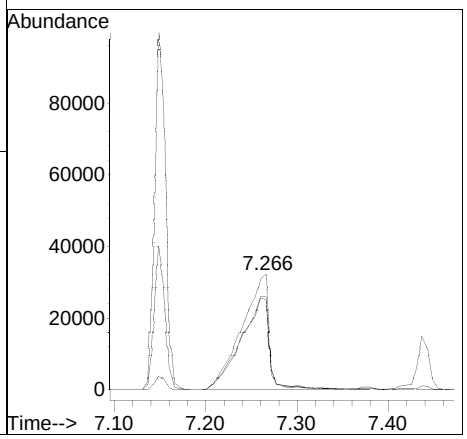


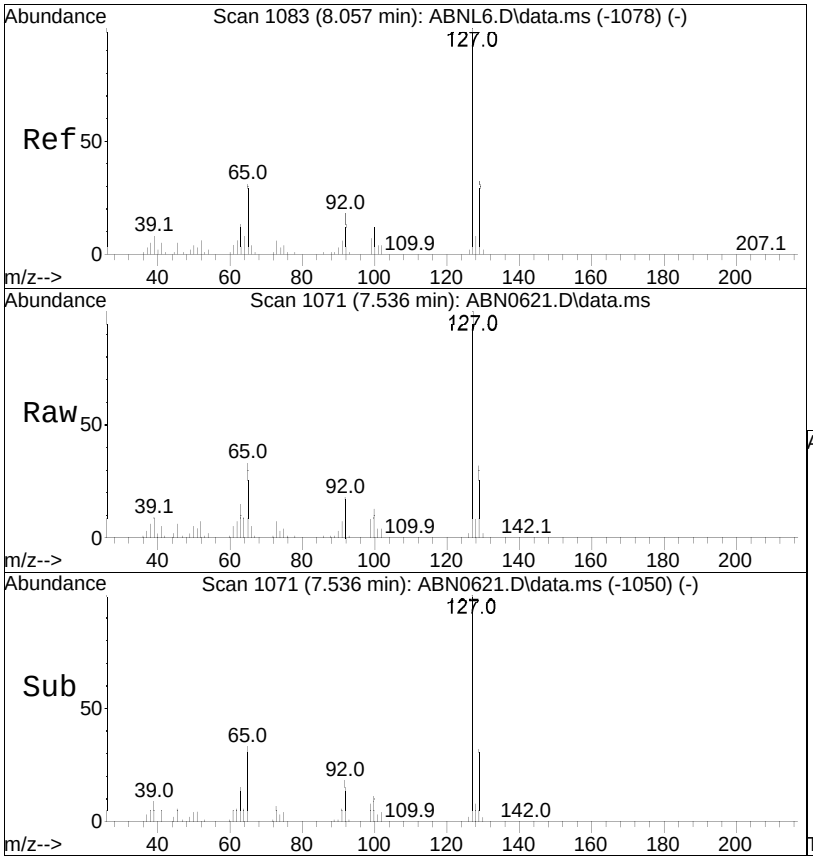


#36
Benzoic Acid
Concen: 5.90 ug/ml
RT: 7.266 min Scan# 1025
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:105 Resp: 68499

Ion	Ratio	Lower	Upper
105	100		
122	82.9	59.9	89.9
77	78.5	60.1	90.1

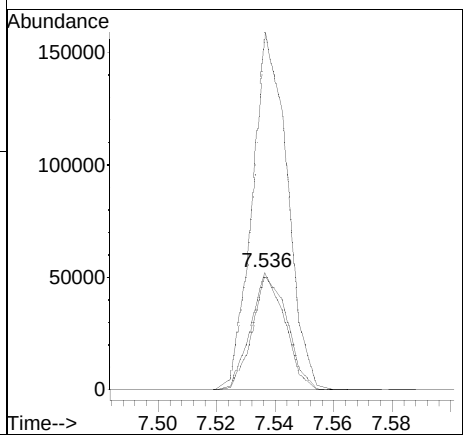


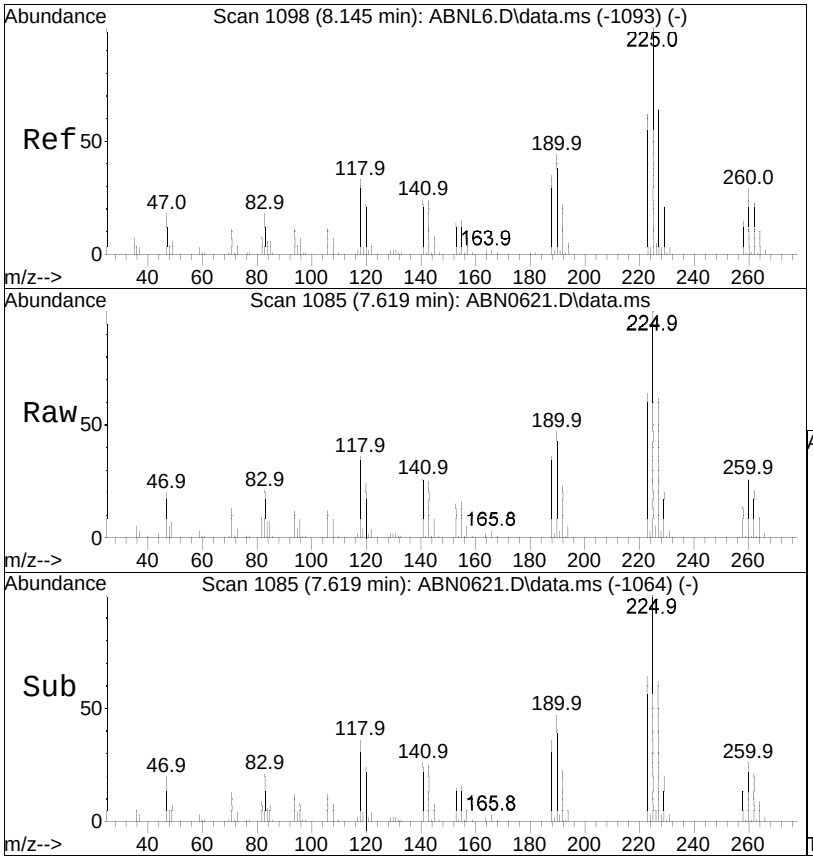


#37
4-Chloroaniline
Concen: 5.39 ug/ml
RT: 7.536 min Scan# 1071
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 65 Resp: 42039

Ion	Ratio	Lower	Upper
65	100		
127	312.8	237.6	356.4
129	99.9	76.3	114.5

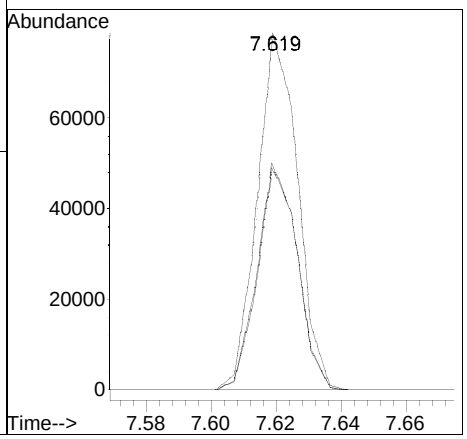


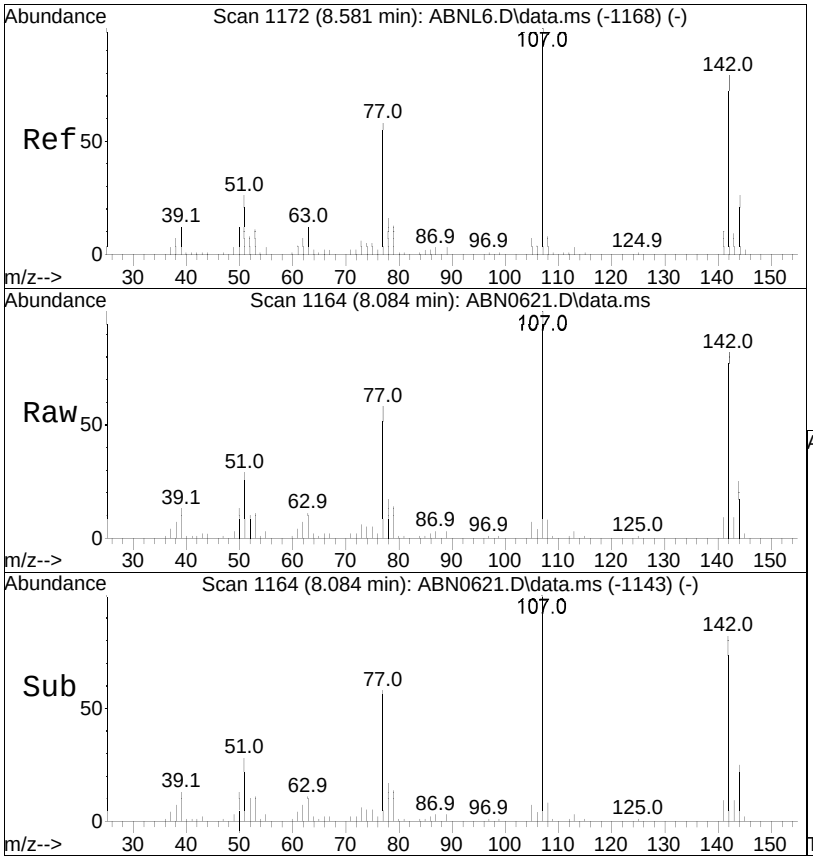


#38
Hexachlorobutadiene
Concen: 5.15 ug/ml
RT: 7.619 min Scan# 1085
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:225 Resp: 67425

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.3	75.5
227	62.2	52.2	78.2

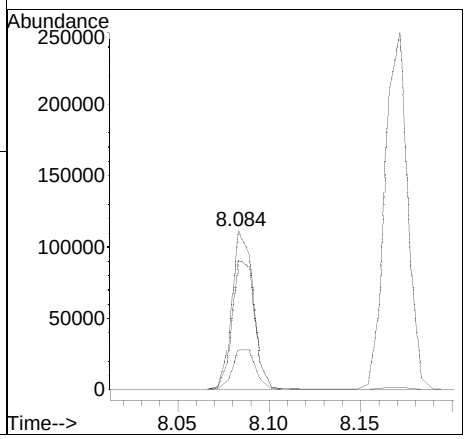


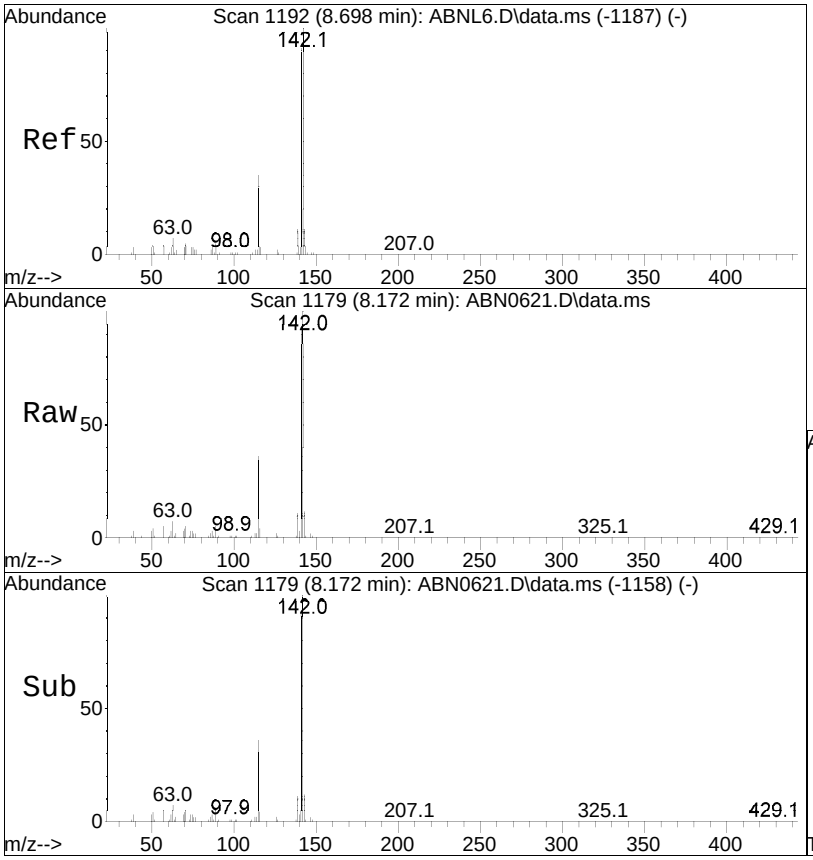


#39
p-Chloro-m-cresol
Concen: 5.39 ug/ml
RT: 8.084 min Scan# 1164
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:107 Resp: 91221

Ion	Ratio	Lower	Upper
107	100		
144	27.0	20.9	31.3
142	85.3	66.1	99.1

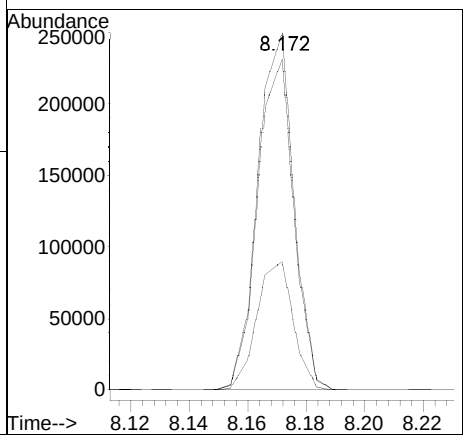


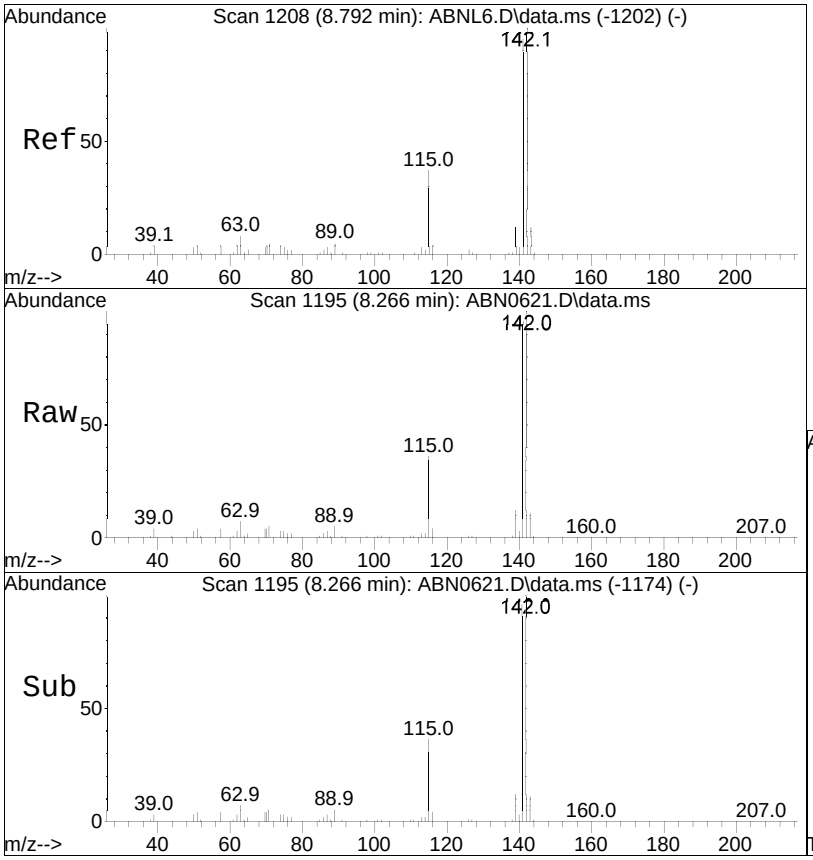


#40
2-Methylnaphthalene
Concen: 5.02 ug/ml
RT: 8.172 min Scan# 1179
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:142 Resp: 214662

Ion	Ratio	Lower	Upper
142	100		
141	92.9	69.6	104.4
115	36.4	26.6	40.0

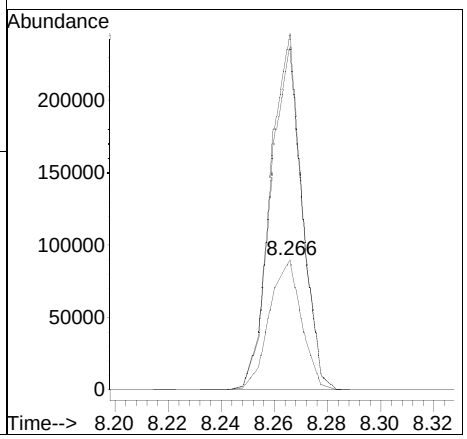


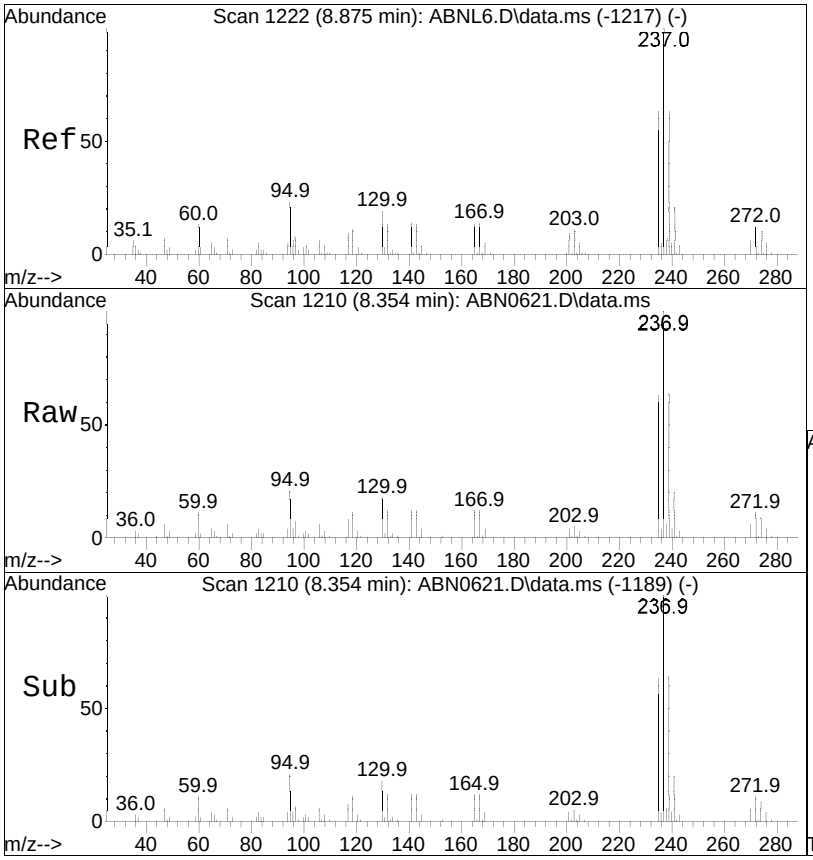


#41
1-Methylnaphthalene
Concen: 5.21 ug/ml
RT: 8.266 min Scan# 1195
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:115 Resp: 75882

Ion	Ratio	Lower	Upper
115	100		
141	254.9	207.8	311.6
142	265.9	226.8	340.2

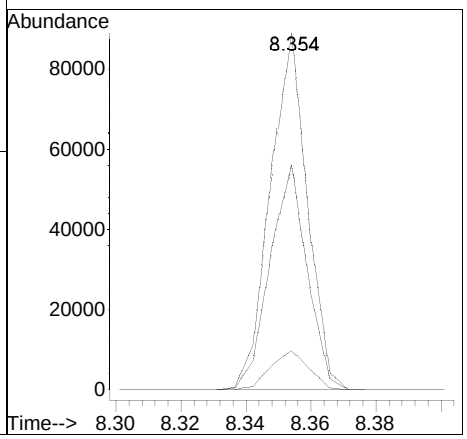


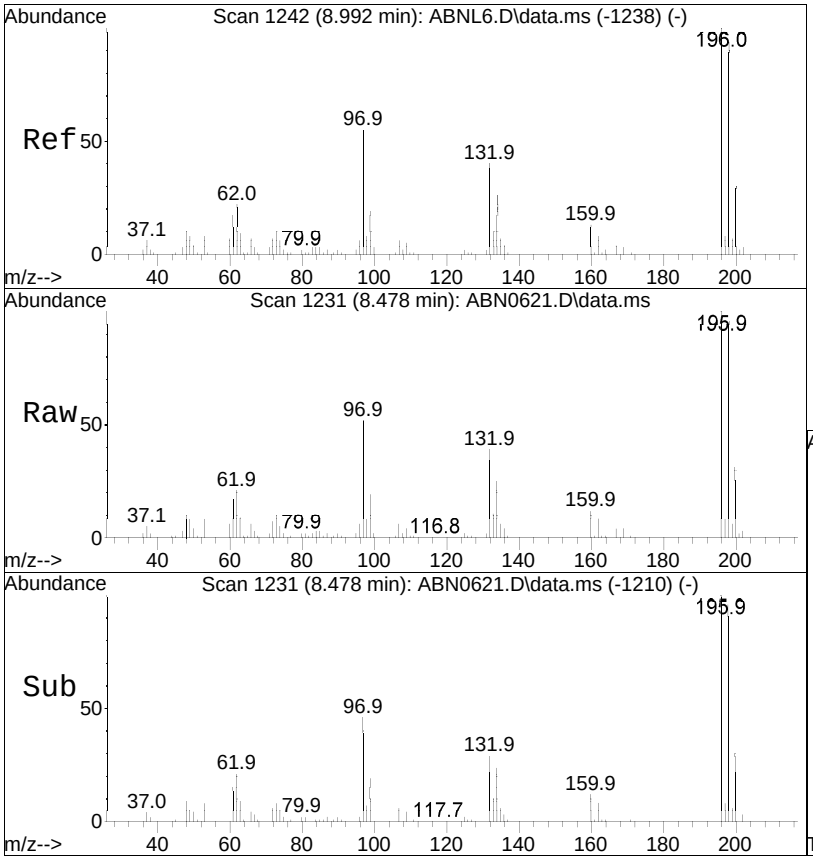


#42
Hexachlorocyclopentadiene
Concen: 5.50 ug/ml
RT: 8.354 min Scan# 1210
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:237 Resp: 70091

Ion	Ratio	Lower	Upper
237	100		
235	63.8	49.7	74.5
272	11.5	9.8	14.6

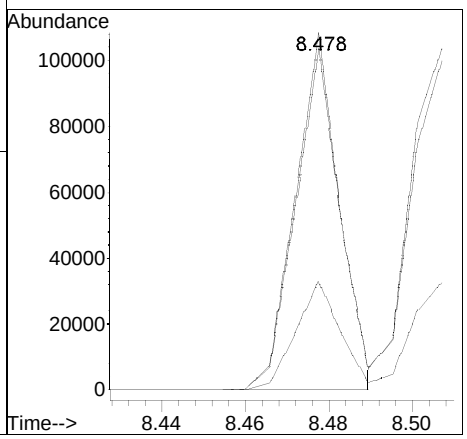


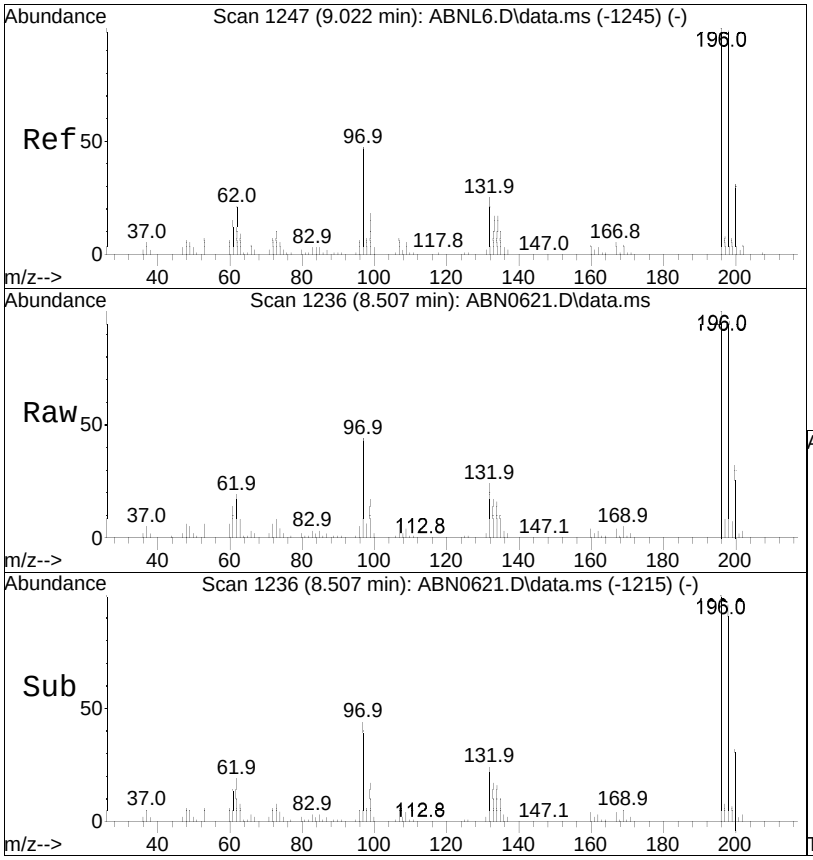


#43
2,4,6-Trichlorophenol
Concen: 5.39 ug/ml
RT: 8.478 min Scan# 1231
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:196 Resp: 79211

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.5	116.3
200	31.0	23.8	35.6

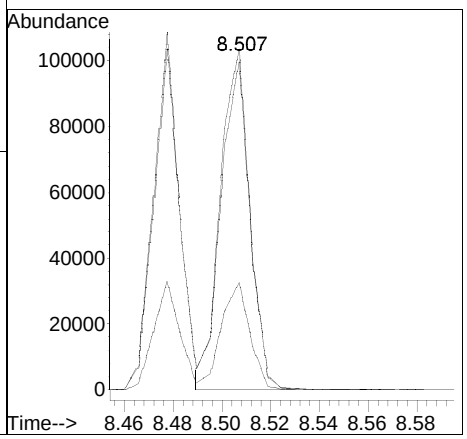


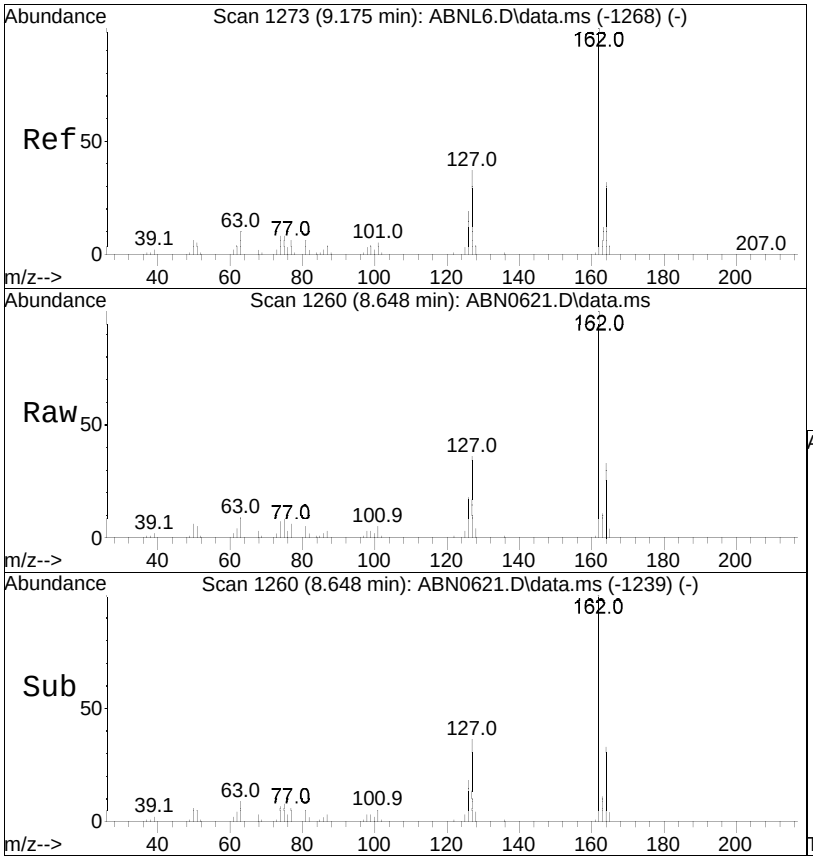


#44
2,4,5-Trichlorophenol
Concen: 5.52 ug/ml
RT: 8.507 min Scan# 1236
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:196 Resp: 86152

Ion	Ratio	Lower	Upper
196	100		
200	30.8	25.4	38.0
198	95.3	78.0	117.0

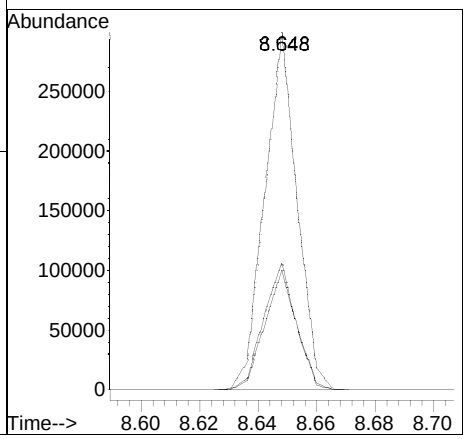


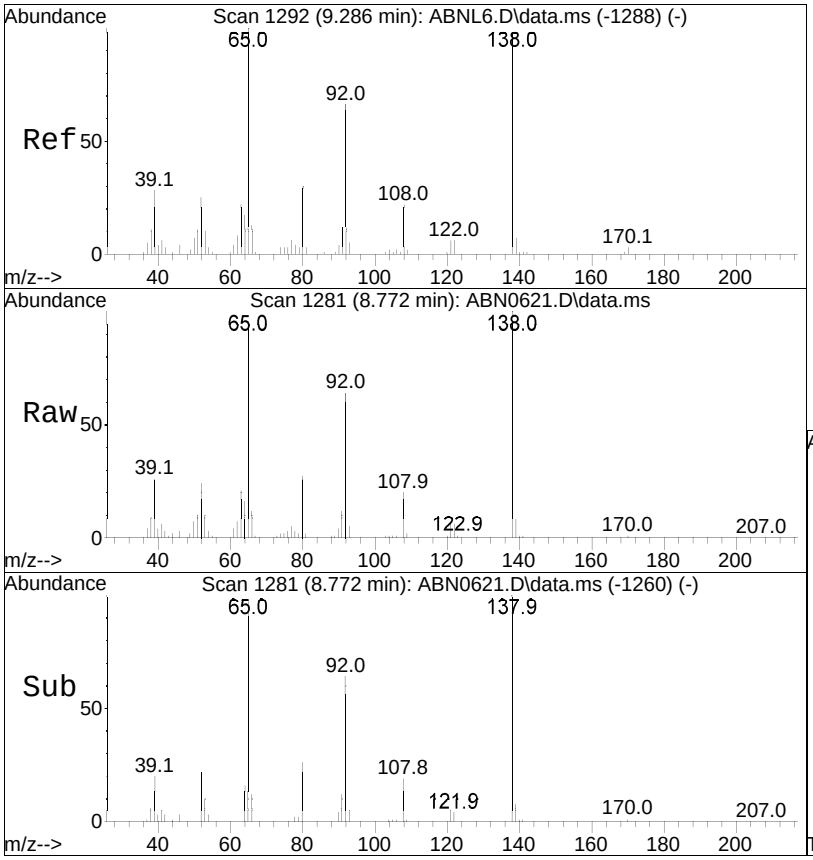


#46
2-Chloronaphthalene
Concen: 5.11 ug/ml
RT: 8.648 min Scan# 1260
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:162 Resp: 226890

Ion	Ratio	Lower	Upper
162	100		
127	35.8	32.2	48.4
164	33.6	25.7	38.5

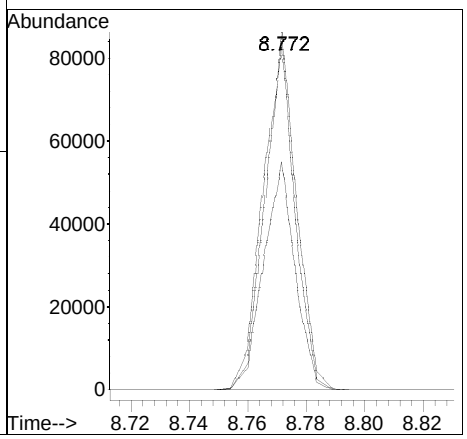


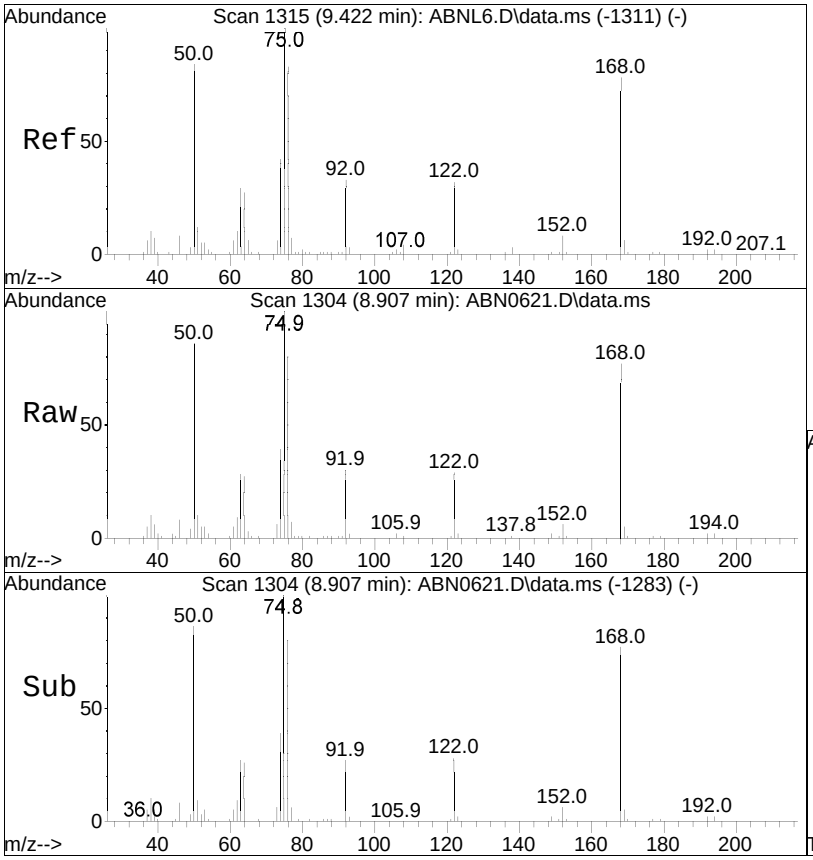


#47
2-Nitroaniline
Concen: 5.88 ug/ml
RT: 8.772 min Scan# 1281
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:138 Resp: 63226

Ion	Ratio	Lower	Upper
138	100		
92	64.7	53.5	80.3
65	99.5	86.3	129.5

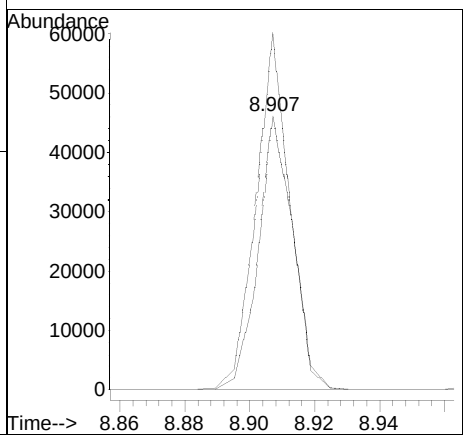


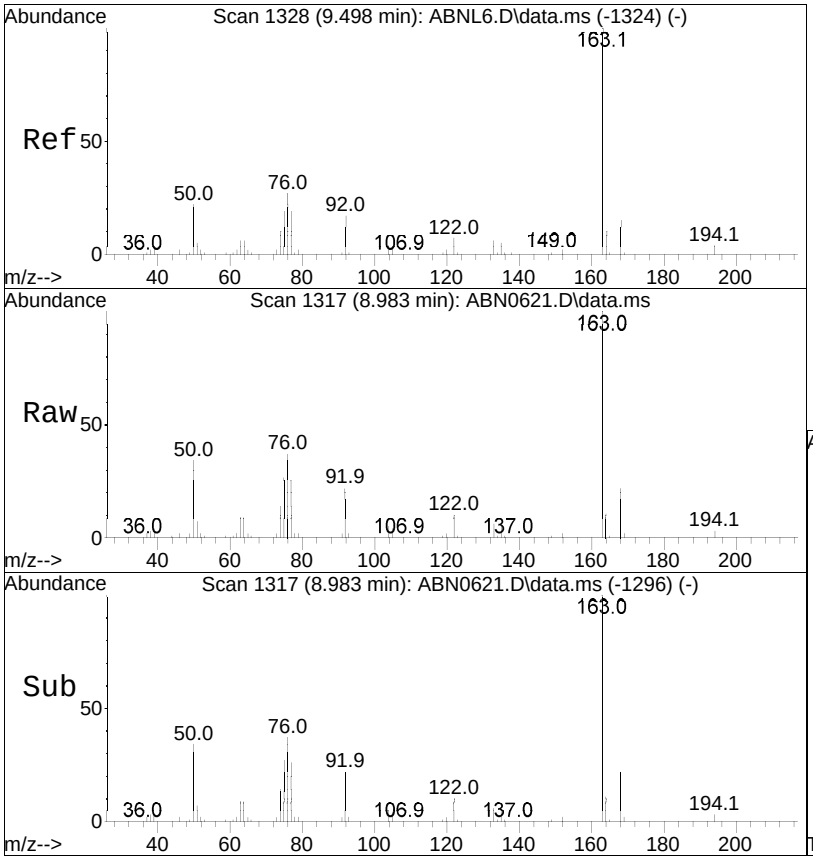


#48
1,4-Dinitrobenzene
Concen: 6.30 ug/ml
RT: 8.907 min Scan# 1304
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:168 Resp: 34023

Ion	Ratio	Lower	Upper
168	100		
75	126.4	121.8	182.8

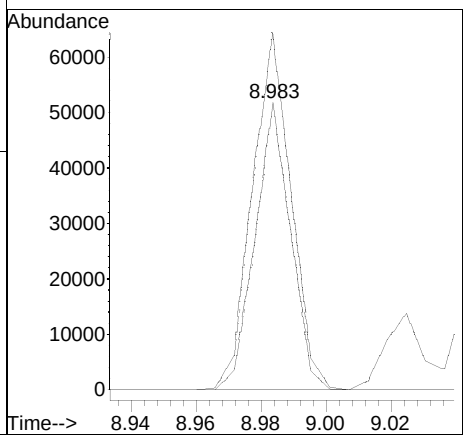


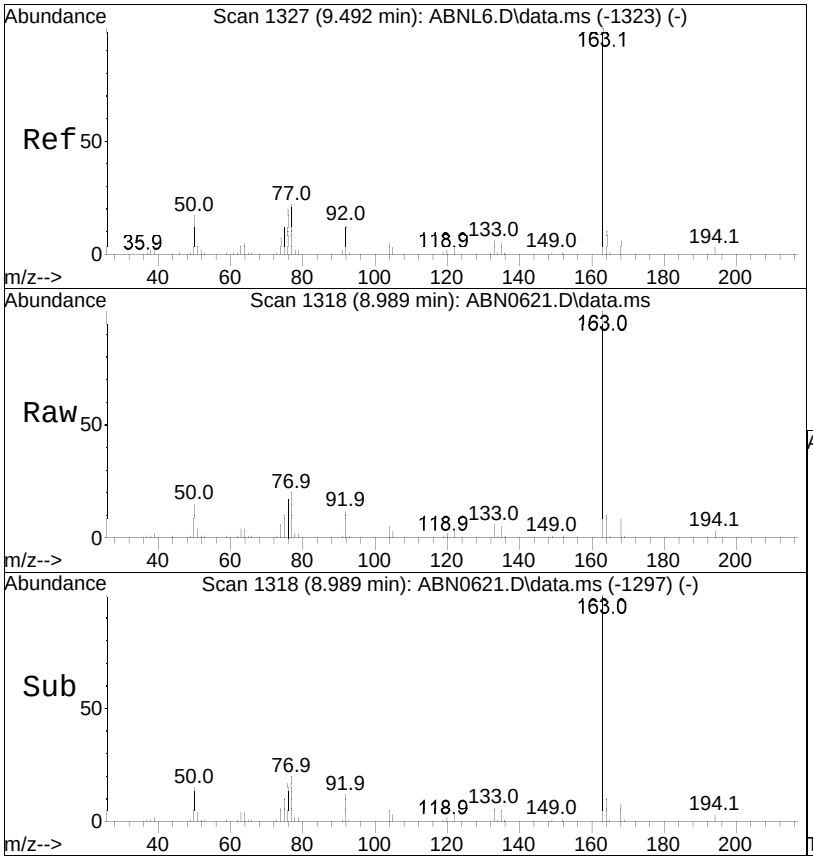


#49
1,3-Dinitrobenzene
Concen: 5.77 ug/ml
RT: 8.983 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:168 Resp: 38952

Ion	Ratio	Lower	Upper
168	100		
75	135.5	22.7	34.1#

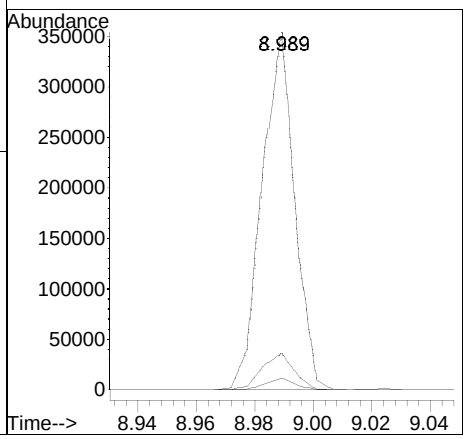


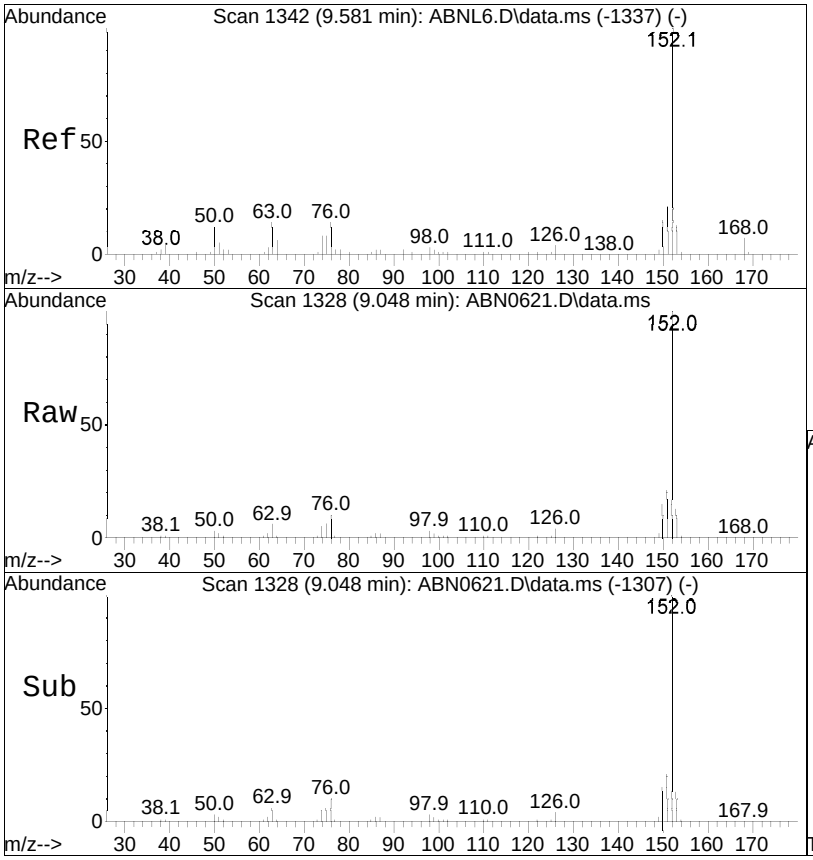


#50
Dimethyl phthalate
Concen: 5.21 ug/ml
RT: 8.989 min Scan# 1318
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:163 Resp: 271198

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.3	7.9	11.9

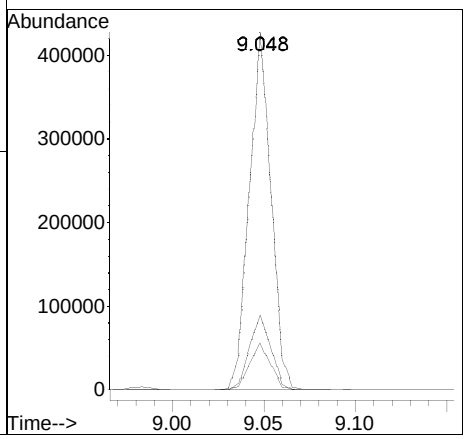


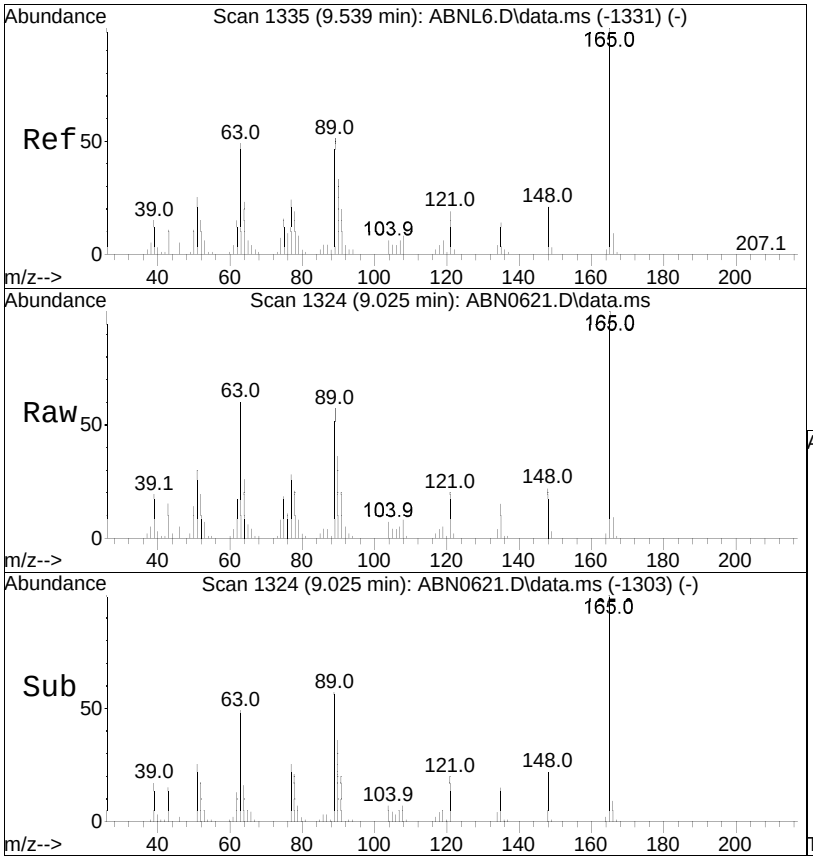


#51
Acenaphthylene
Concen: 5.19 ug/ml
RT: 9.048 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:152 Resp: 347814

Ion	Ratio	Lower	Upper
152	100		
151	20.9	15.8	23.6
153	12.9	10.5	15.7

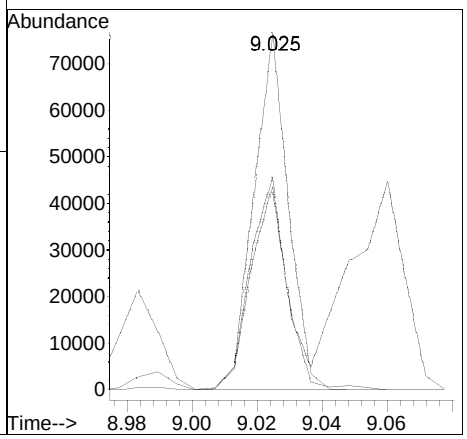


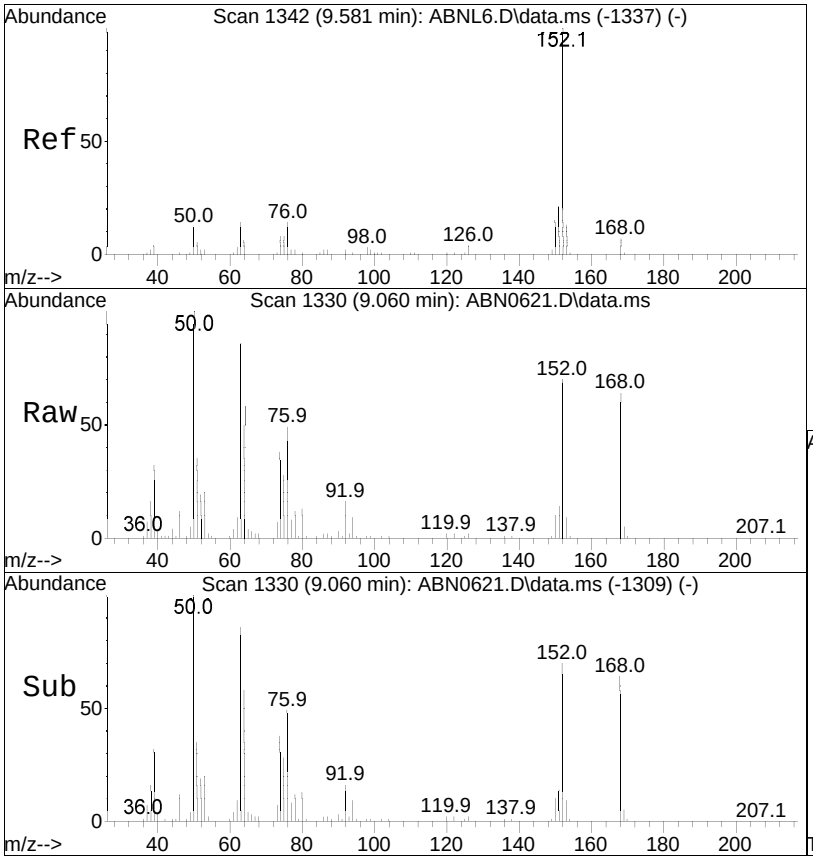


#52
2,6-Dinitrotoluene
Concen: 5.93 ug/ml
RT: 9.025 min Scan# 1324
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:165 Resp: 56157

Ion	Ratio	Lower	Upper
165	100		
89	60.5	54.2	81.2
63	64.1	64.2	96.2#

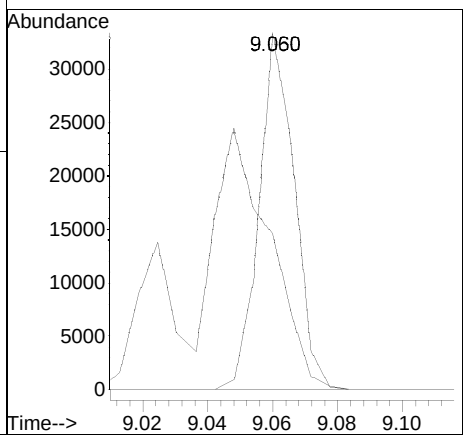


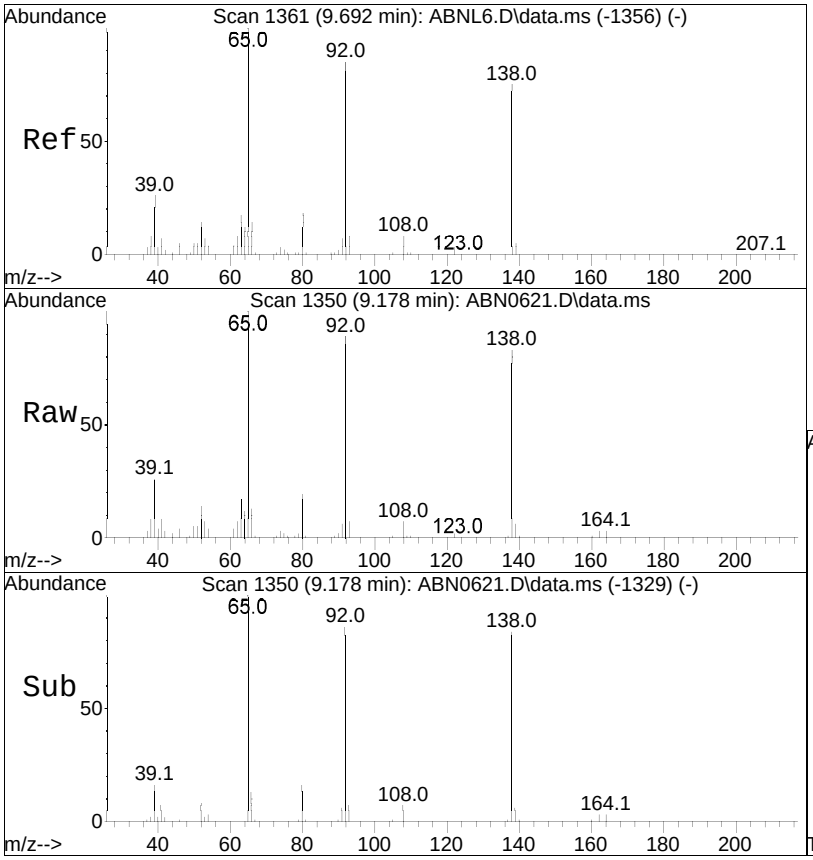


#53
1,2-Dinitrobenzene
Concen: 5.93 ug/ml
RT: 9.060 min Scan# 1330
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:168 Resp: 25088

Ion	Ratio	Lower	Upper
168	100		
75	113.5	30.9	46.3#

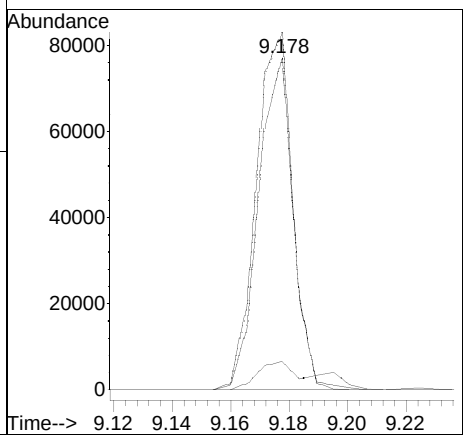


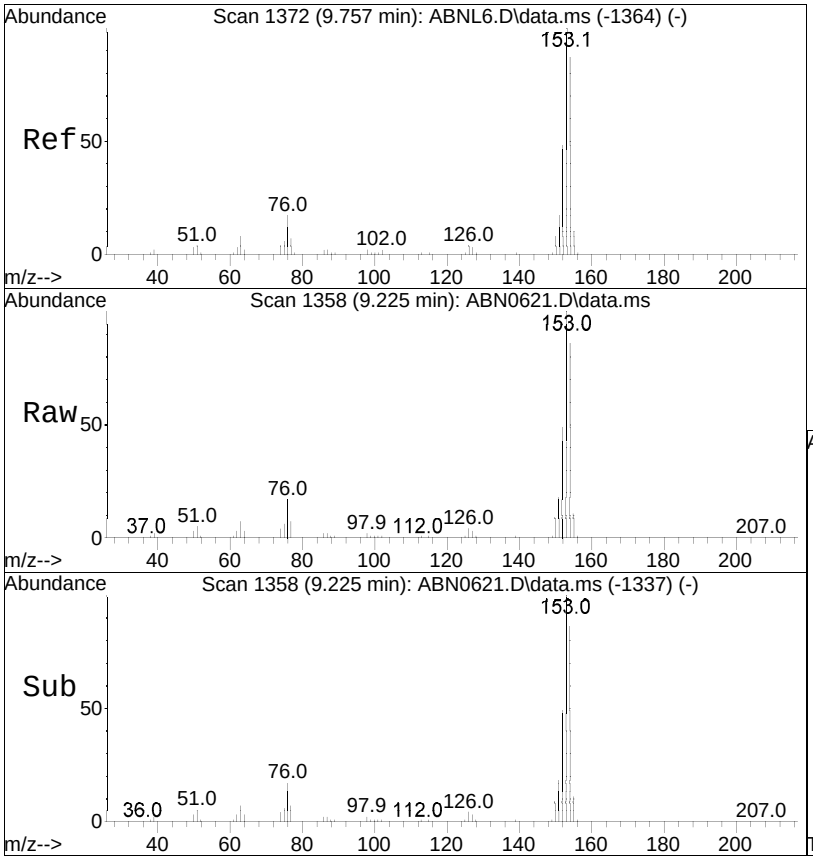


#63
3-Nitroaniline
Concen: 6.24 ug/ml
RT: 9.178 min Scan# 1350
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:138 Resp: 62519

Ion	Ratio	Lower	Upper
138	100		
92	113.7	93.4	140.2
108	14.1	9.5	14.3

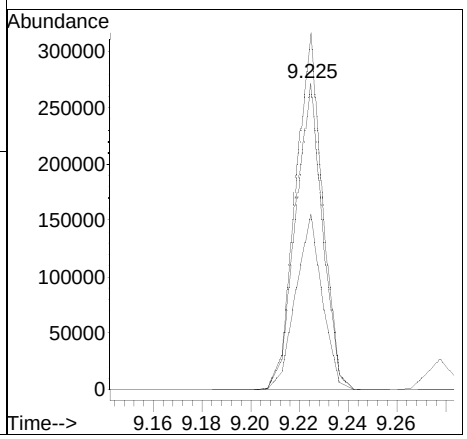


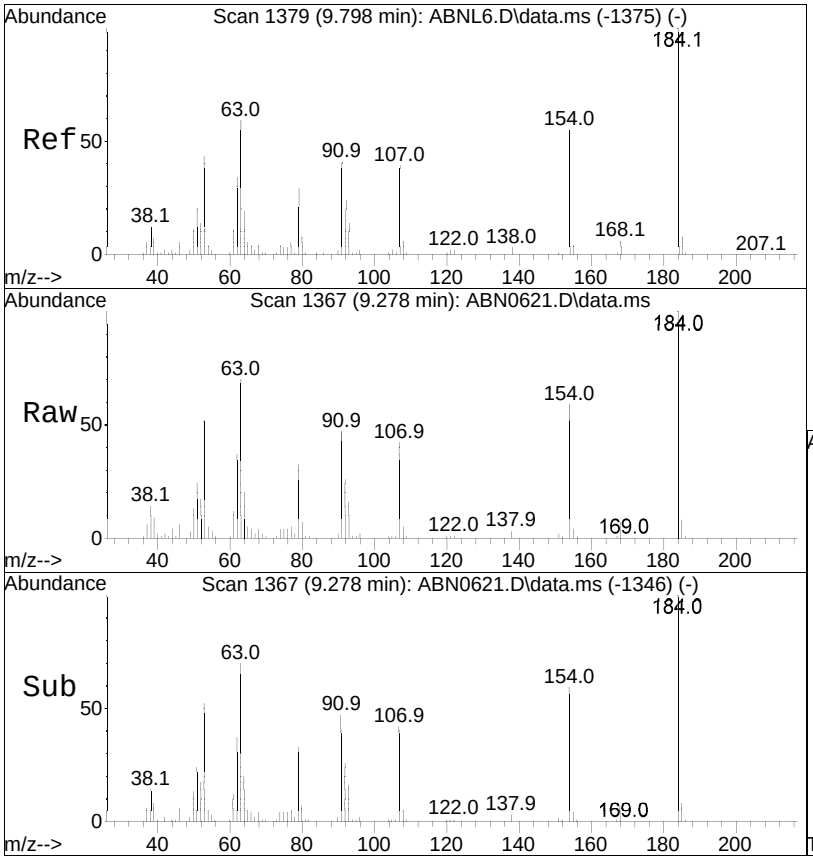


#64
Acenaphthene
Concen: 5.02 ug/ml
RT: 9.225 min Scan# 1358
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:154 Resp: 209586

Ion	Ratio	Lower	Upper
154	100		
153	115.3	85.3	127.9
152	56.4	41.4	62.0

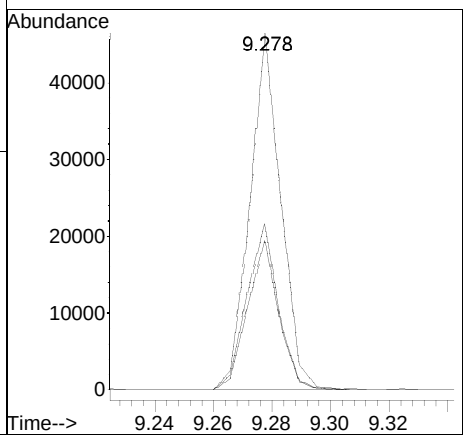


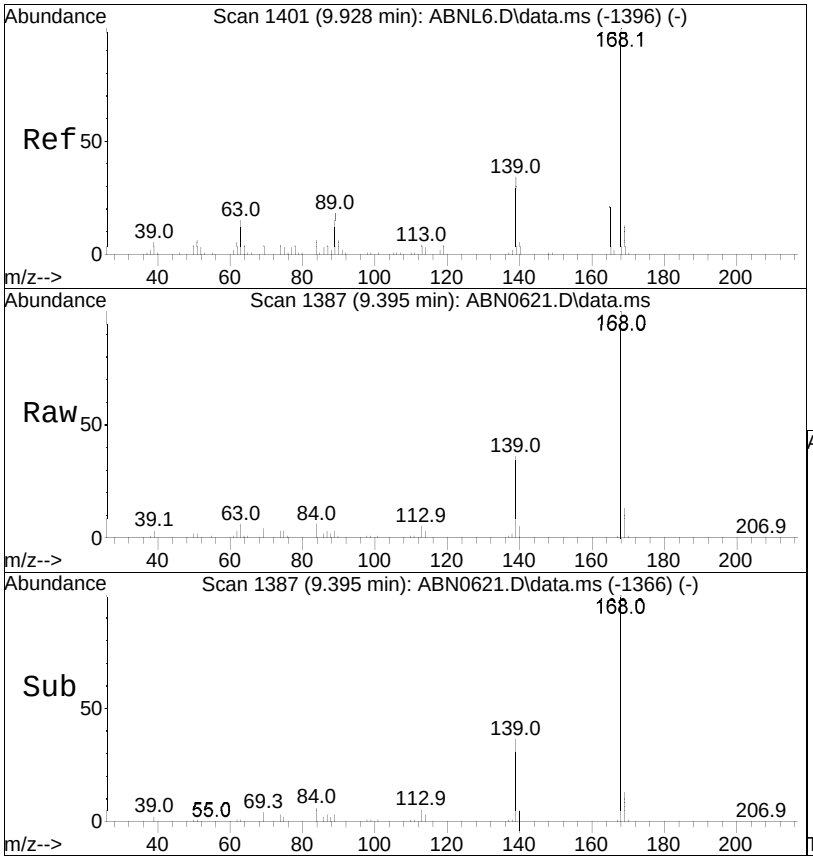


#65
2,4-Dinitrophenol
Concen: 6.06 ug/ml
RT: 9.278 min Scan# 1367
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:184 Resp: 33854

Ion	Ratio	Lower	Upper
184	100		
107	42.5	37.7	56.5
91	47.9	46.3	69.5

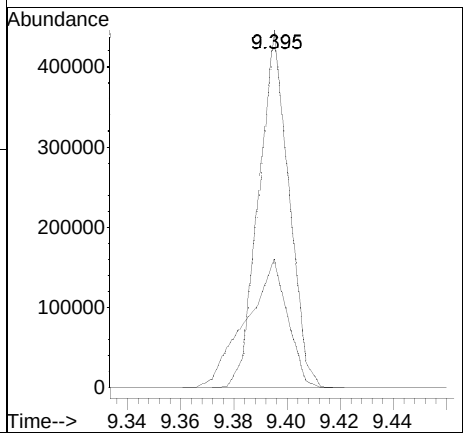


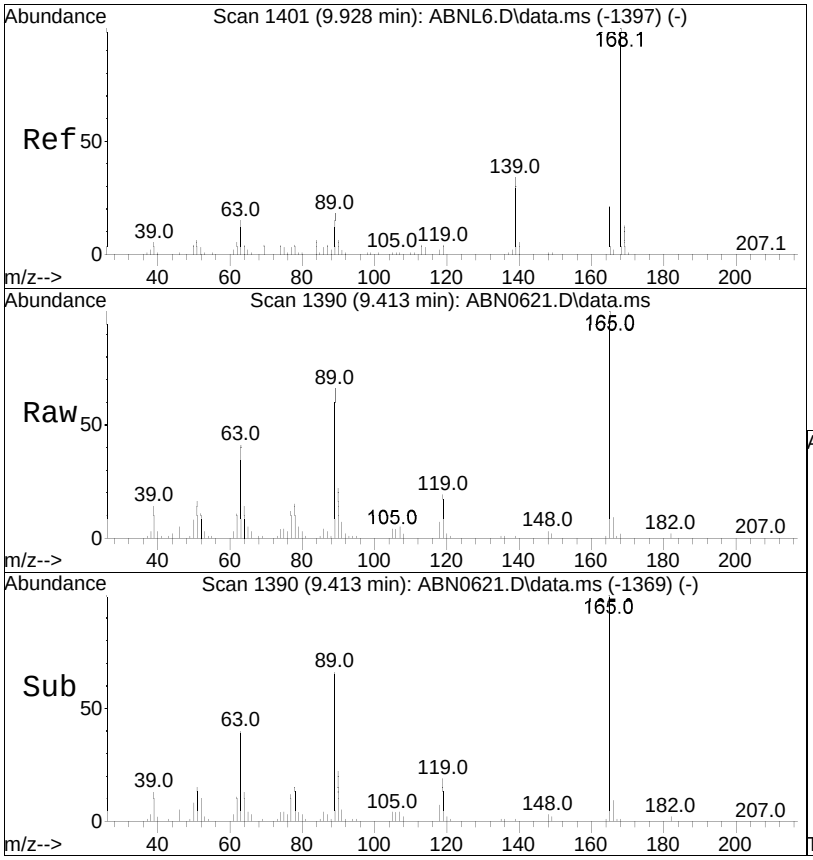


#66
Dibenzofuran
Concen: 5.11 ug/ml
RT: 9.395 min Scan# 1387
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:168 Resp: 346711

Ion	Ratio	Lower	Upper
168	100		
139	49.9	31.4	47.2#

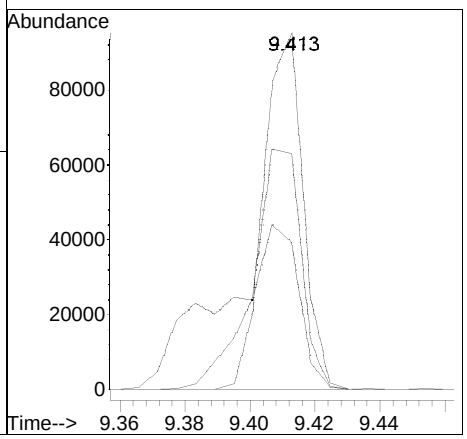


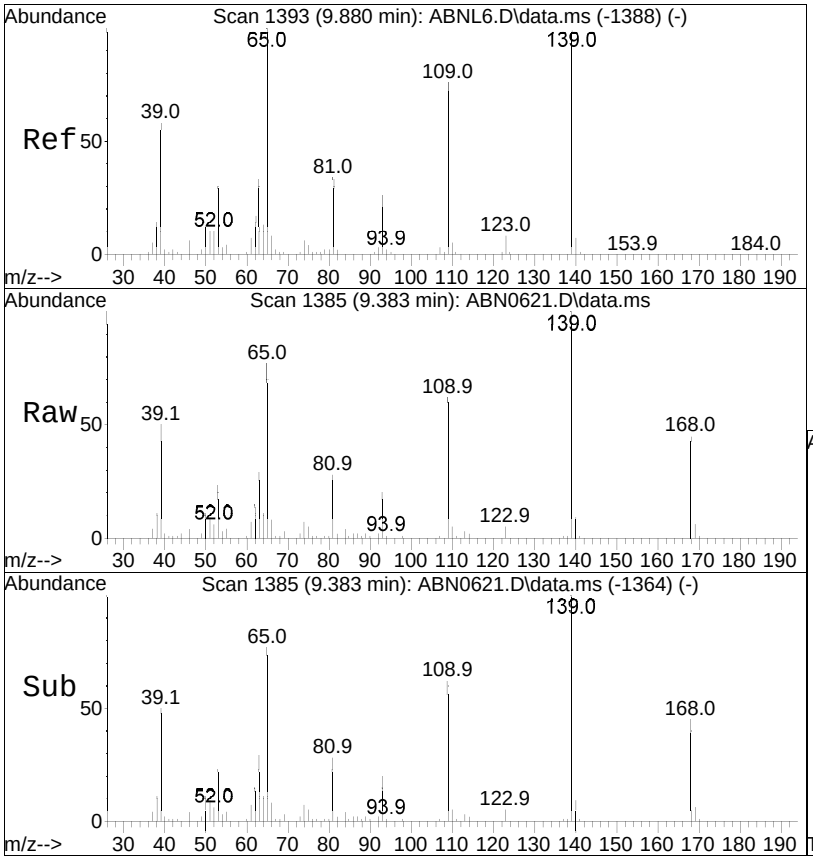


#67
2,4-Dinitrotoluene
Concen: 5.32 ug/ml
RT: 9.413 min Scan# 1390
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:165 Resp: 79798

Ion	Ratio	Lower	Upper
165	100		
89	83.2	72.0	108.0
63	91.7	52.7	79.1#

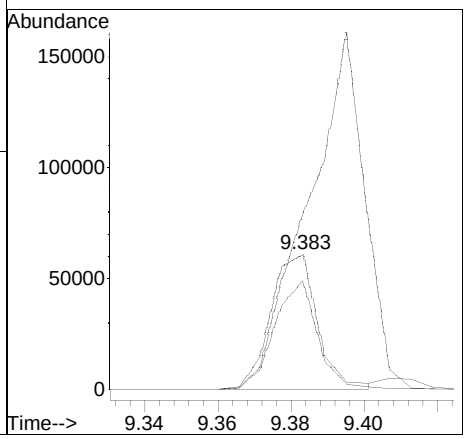


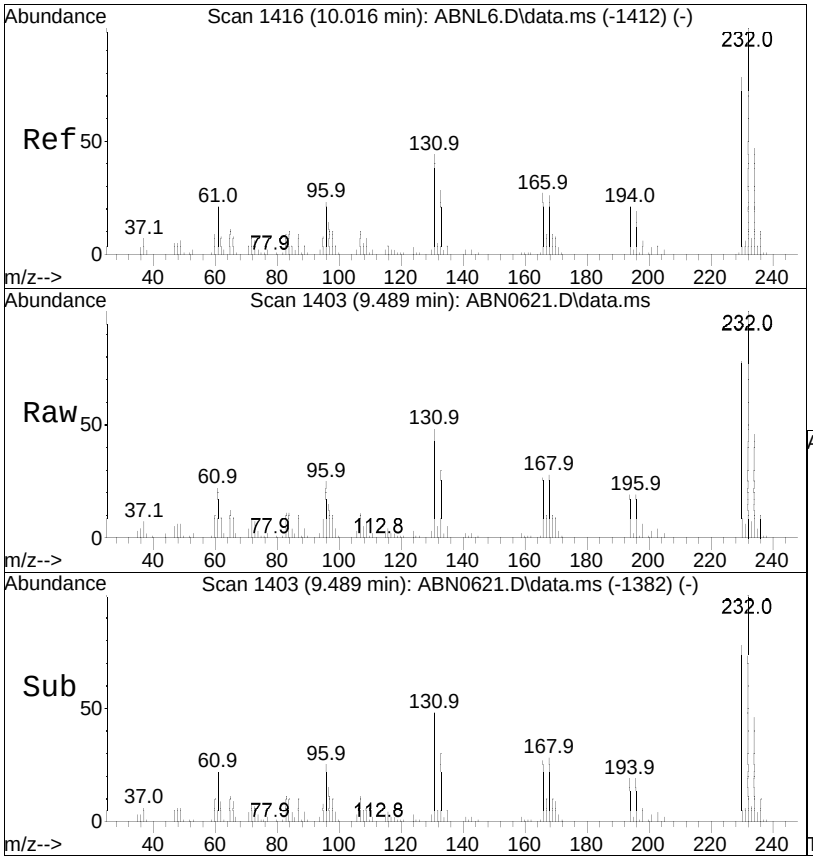


#68
4-Nitrophenol
Concen: 6.34 ug/ml
RT: 9.383 min Scan# 1385
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 65 Resp: 54221

Ion	Ratio	Lower	Upper
65	100		
109	74.1	47.4	71.2#
139	0.0	76.6	115.0#

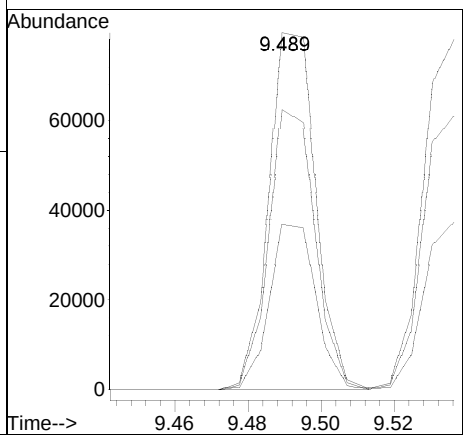


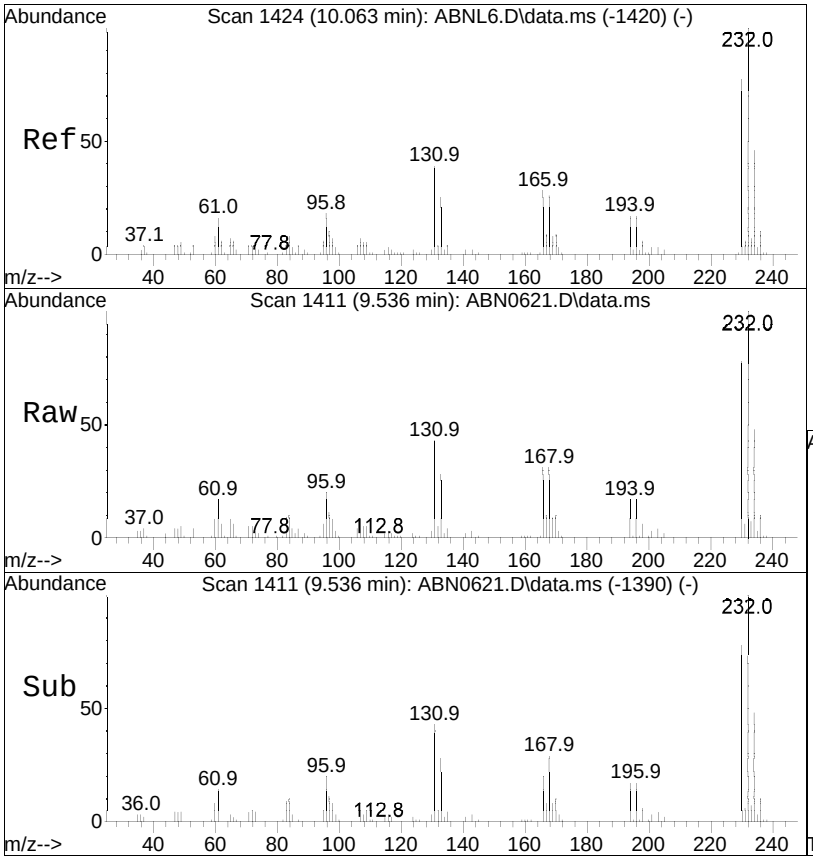


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.81 ug/ml
RT: 9.489 min Scan# 1403
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:232 Resp: 71305

Ion	Ratio	Lower	Upper
232	100		
230	77.6	64.2	96.4
234	46.1	38.1	57.1

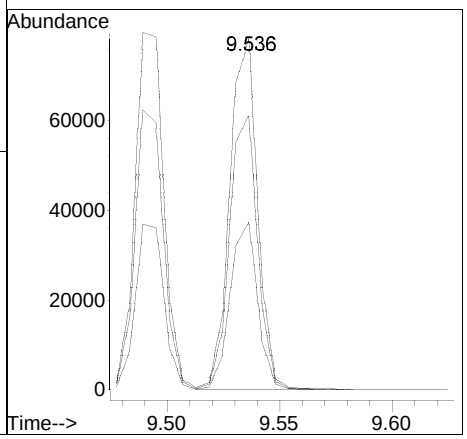


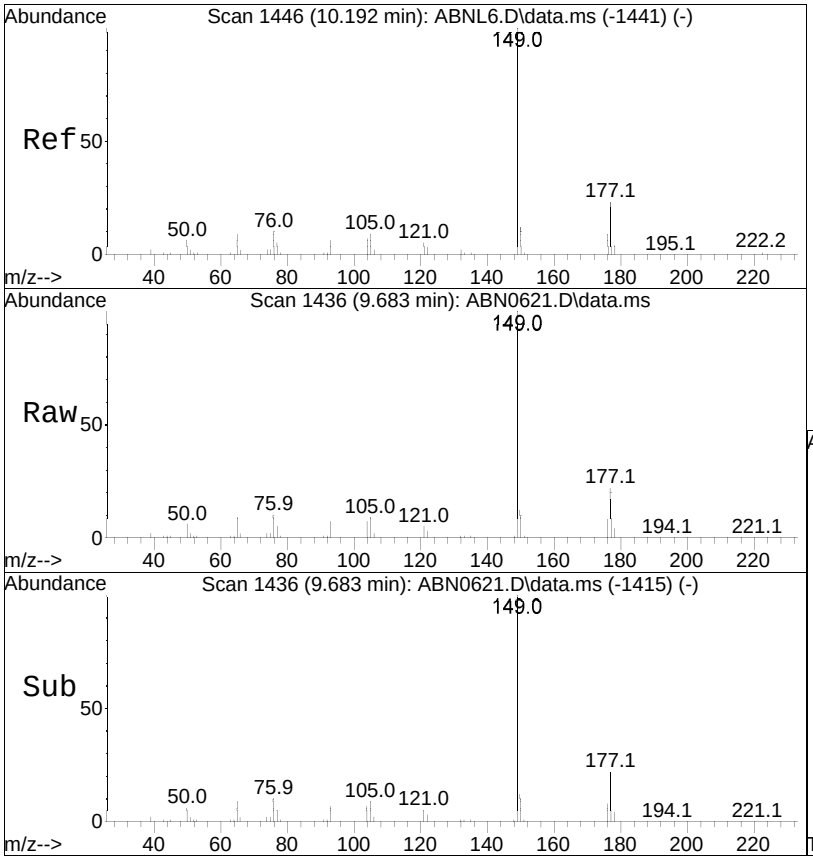


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.59 ug/ml
RT: 9.536 min Scan# 1411
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:232 Resp: 67738

Ion	Ratio	Lower	Upper
232	100		
230	78.9	61.8	92.8
234	47.1	36.2	54.2

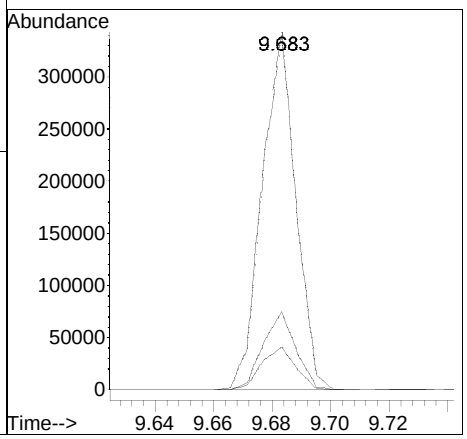


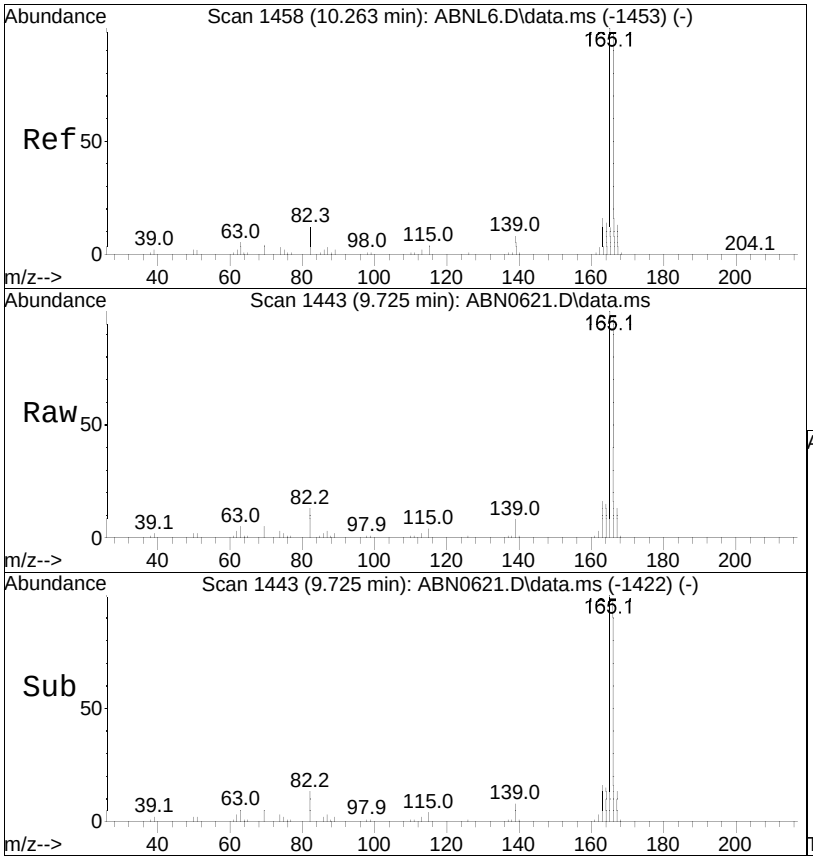


#71
Diethyl phthalate
Concen: 5.37 ug/ml
RT: 9.683 min Scan# 1436
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:149 Resp: 269867

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.1	24.1
150	12.4	9.4	14.2

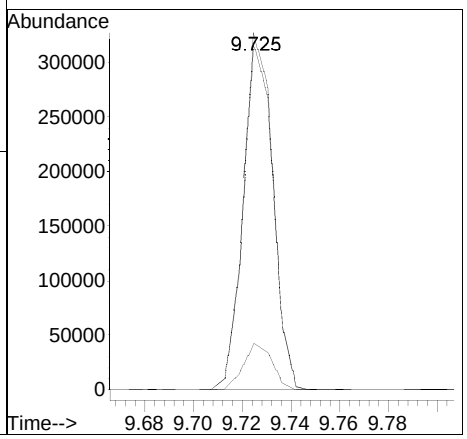


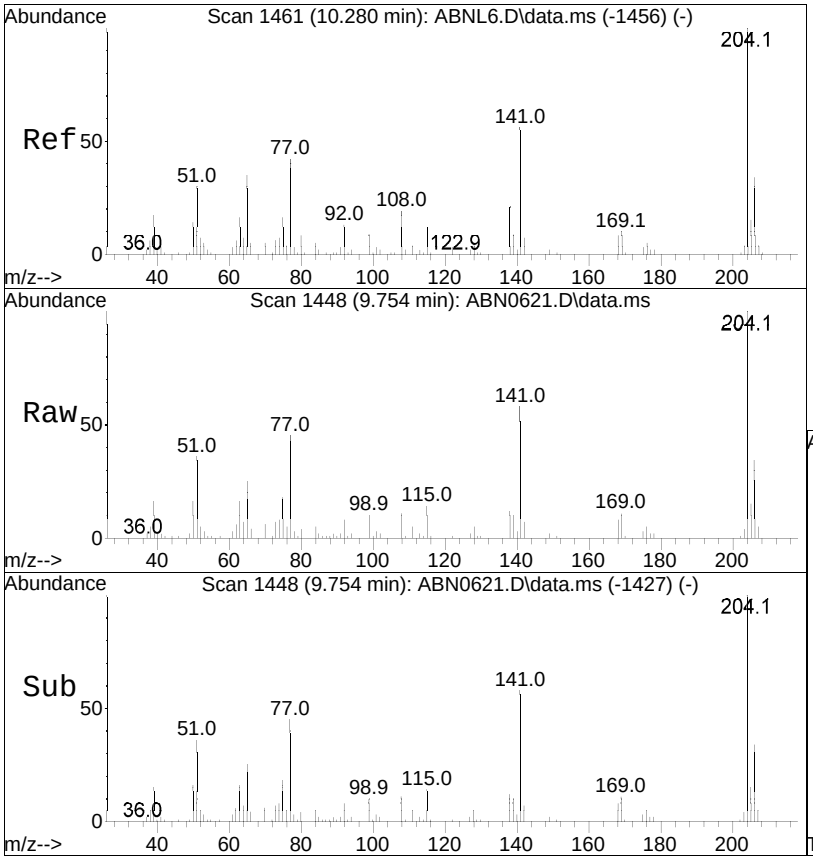


#72
Fluorene
Concen: 5.22 ug/ml
RT: 9.725 min Scan# 1443
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:166 Resp: 267929

Ion	Ratio	Lower	Upper
166	100		
165	103.5	76.2	114.2
167	13.2	10.6	15.8

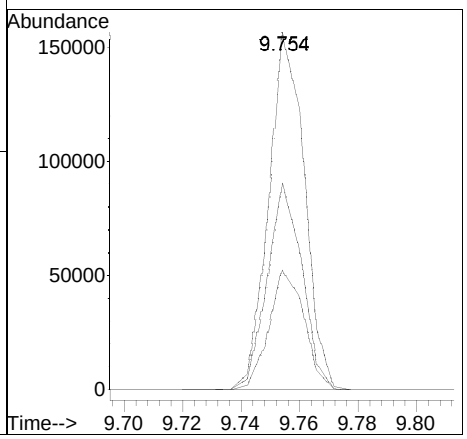


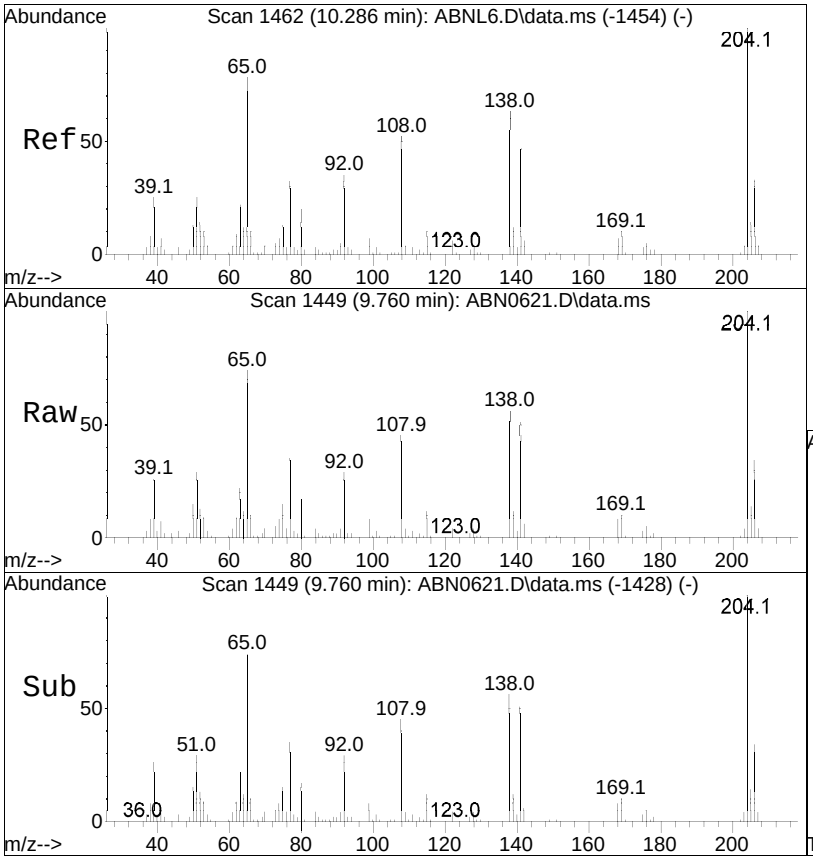


#73
4-Chlorophenyl phenyl ether
Concen: 5.06 ug/ml
RT: 9.754 min Scan# 1448
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:204 Resp: 131468

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	56.5	53.6	80.4

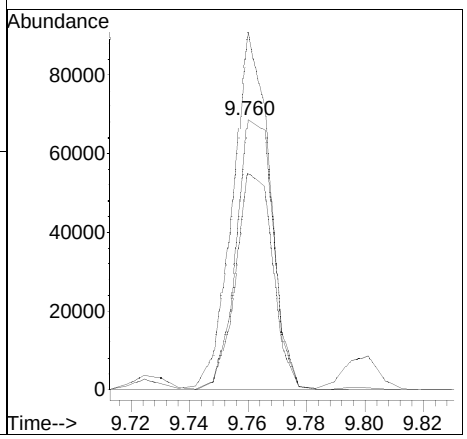


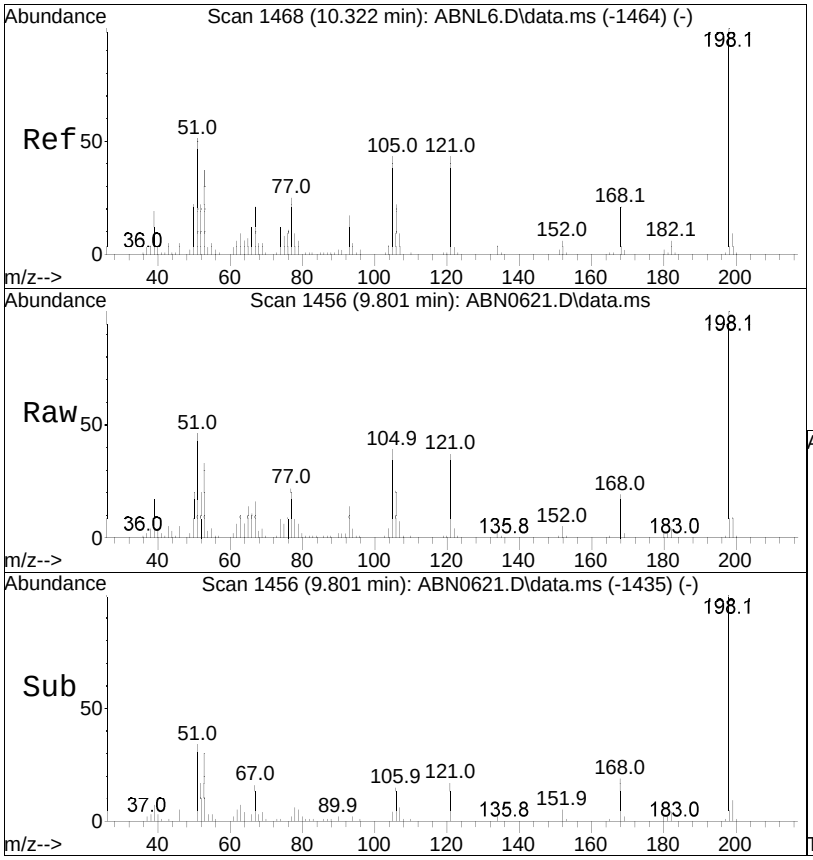


#74
4-Nitroaniline
Concen: 5.96 ug/ml
RT: 9.760 min Scan# 1449
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:138 Resp: 60435

Ion	Ratio	Lower	Upper
138	100		
108	80.3	52.1	78.1#
65	131.4	115.0	172.6

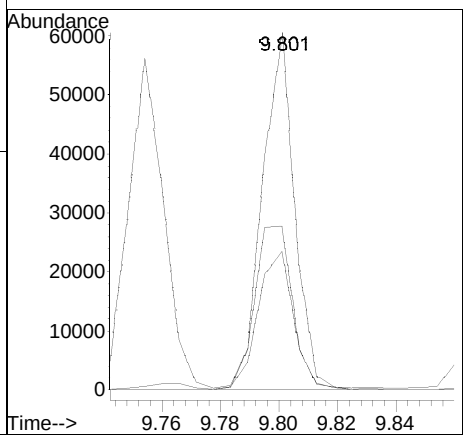


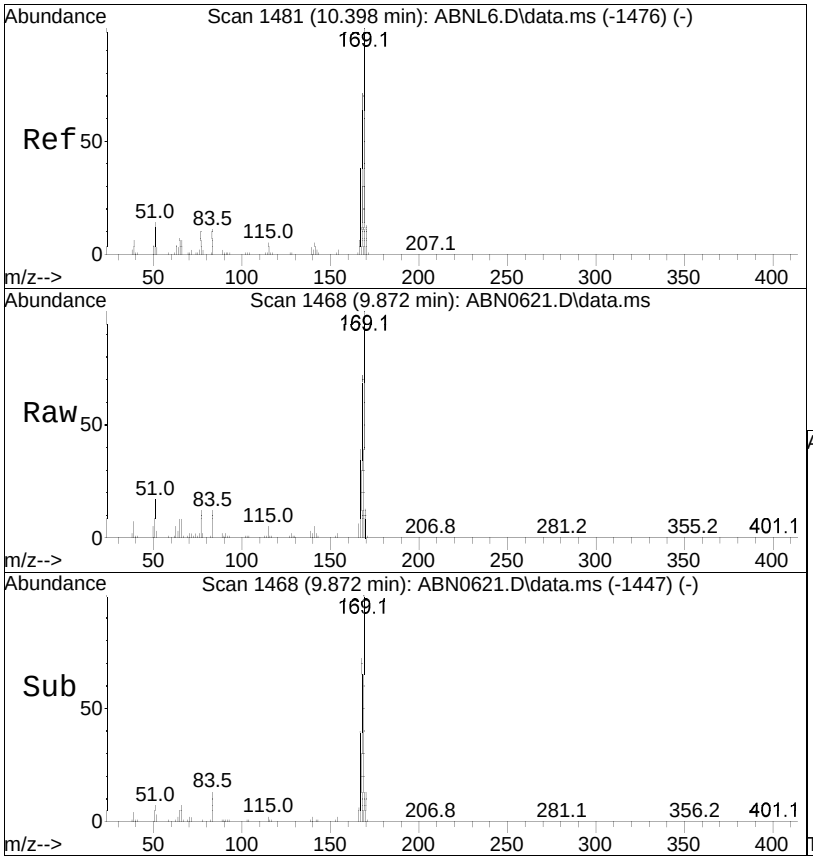


#75
4,6-Dinitro-o-cresol
Concen: 5.73 ug/ml
RT: 9.801 min Scan# 1456
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:198 Resp: 46096

Ion	Ratio	Lower	Upper
198	100		
51	53.6	76.0	114.0#
105	43.2	45.6	68.4#

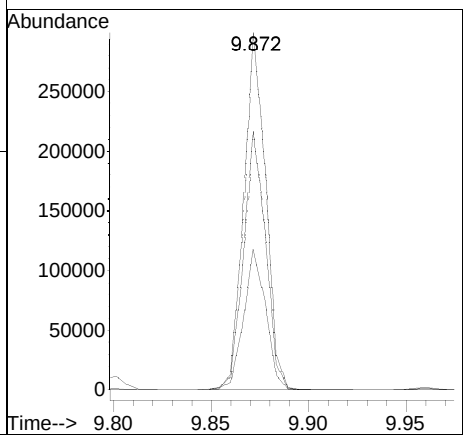


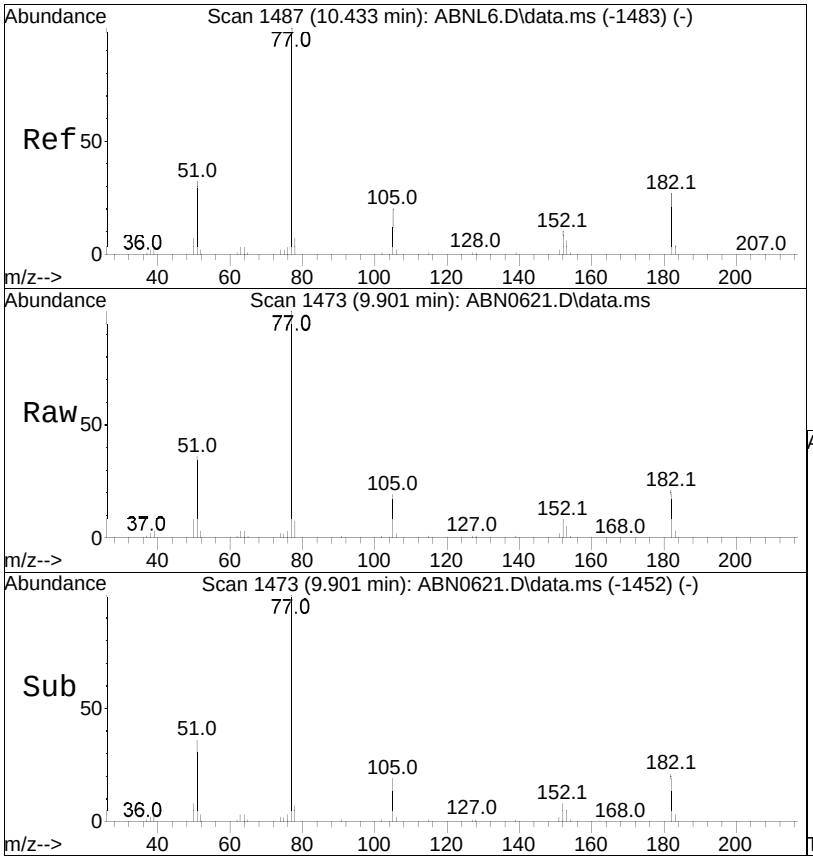


#76
NDPA/DPA
Concen: 5.30 ug/ml
RT: 9.872 min Scan# 1468
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:169 Resp: 231778

Ion	Ratio	Lower	Upper
169	100		
168	73.4	54.0	81.0
167	40.1	28.6	42.8

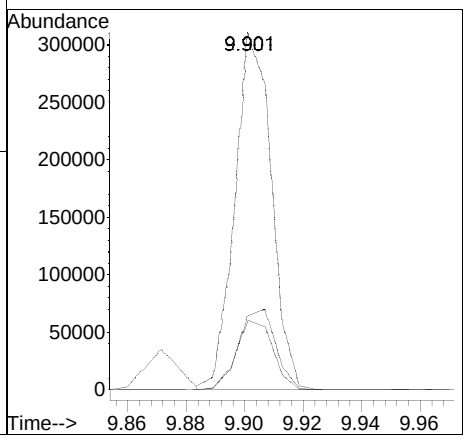


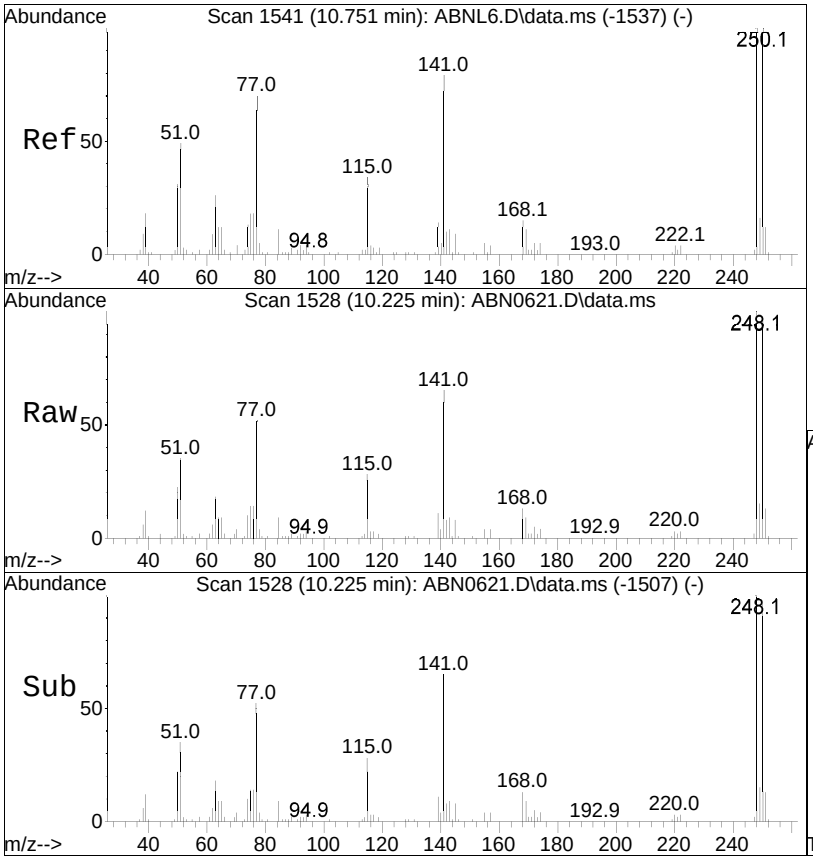


#77
Azobenzene
Concen: 5.49 ug/ml
RT: 9.901 min Scan# 1473
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion: 77 Resp: 267073

Ion	Ratio	Lower	Upper
77	100		
182	23.2	17.4	26.2
105	20.1	15.4	23.2

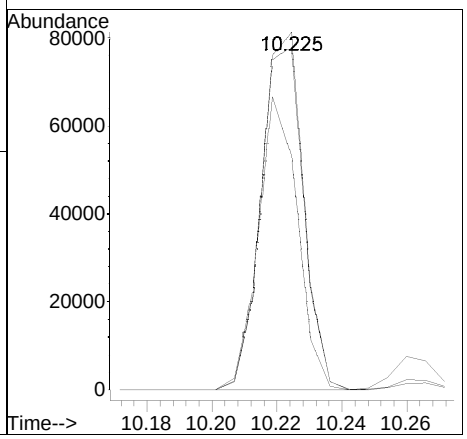


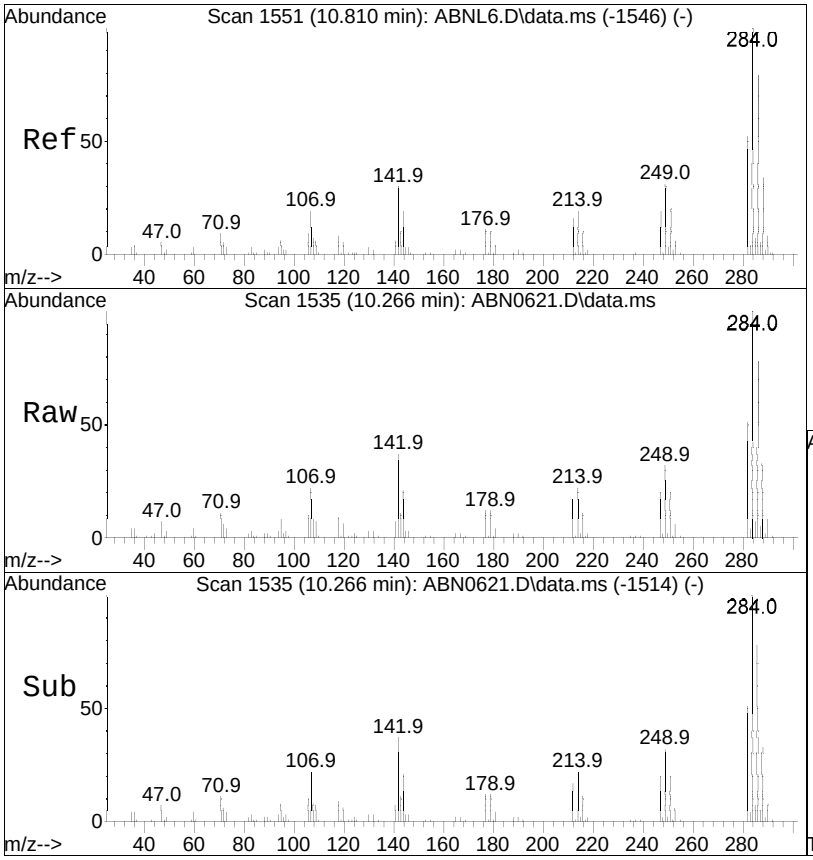


#79
4-Bromophenyl phenyl ether
Concen: 4.99 ug/ml
RT: 10.225 min Scan# 1528
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:248 Resp: 72520

Ion	Ratio	Lower	Upper
248	100		
141	76.5	76.6	114.8#
250	97.2	77.3	115.9

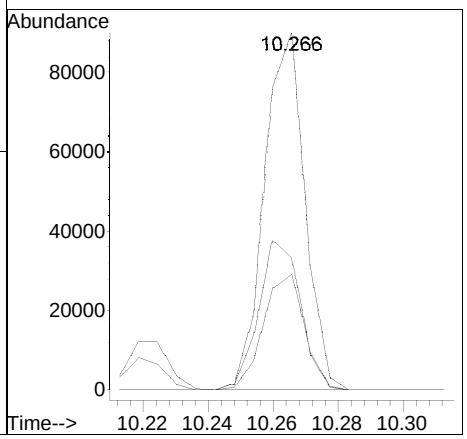


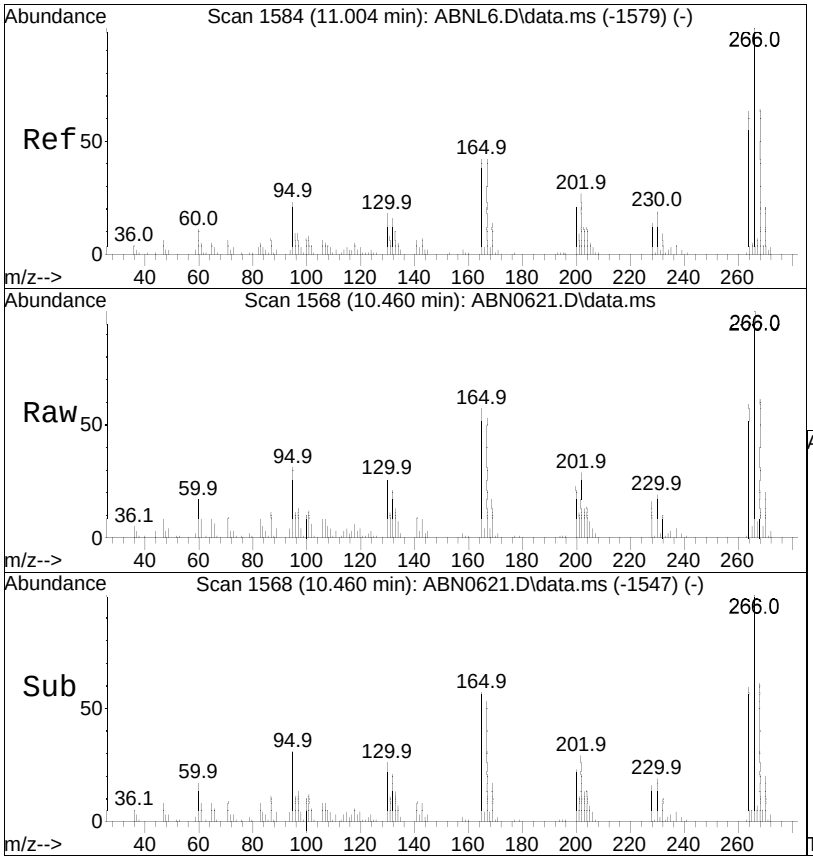


#80
Hexachlorobenzene
Concen: 4.67 ug/ml
RT: 10.266 min Scan# 1535
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:284 Resp: 77666

Ion	Ratio	Lower	Upper
284	100		
142	43.4	41.9	62.9
249	33.1	24.1	36.1

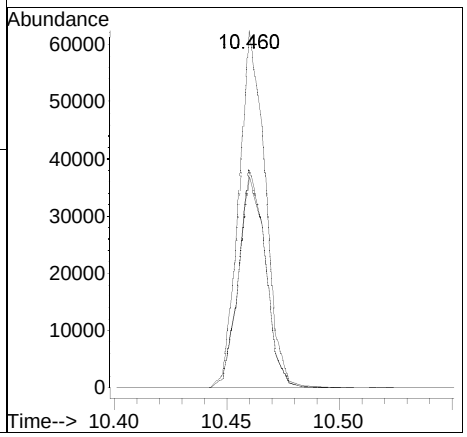


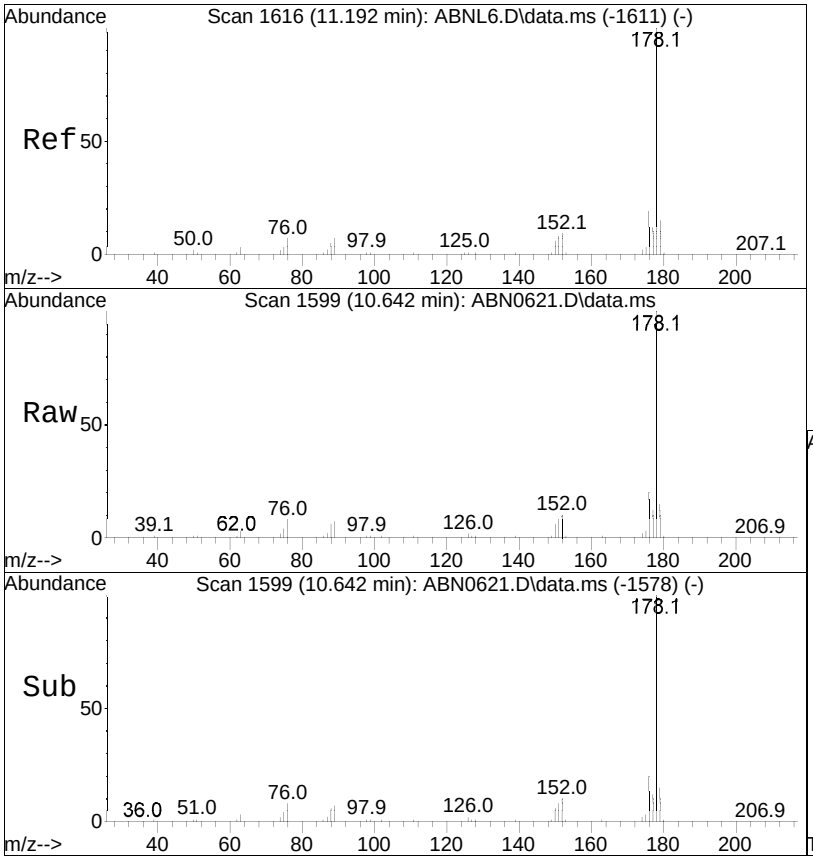


#81
Pentachlorophenol
Concen: 5.24 ug/ml
RT: 10.460 min Scan# 1568
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:266 Resp: 50911

Ion	Ratio	Lower	Upper
266	100		
264	61.4	49.7	74.5
268	62.2	50.5	75.7

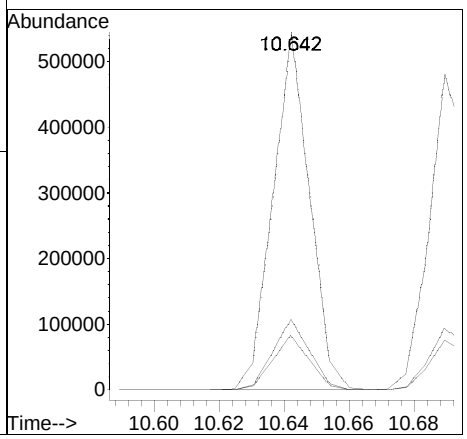


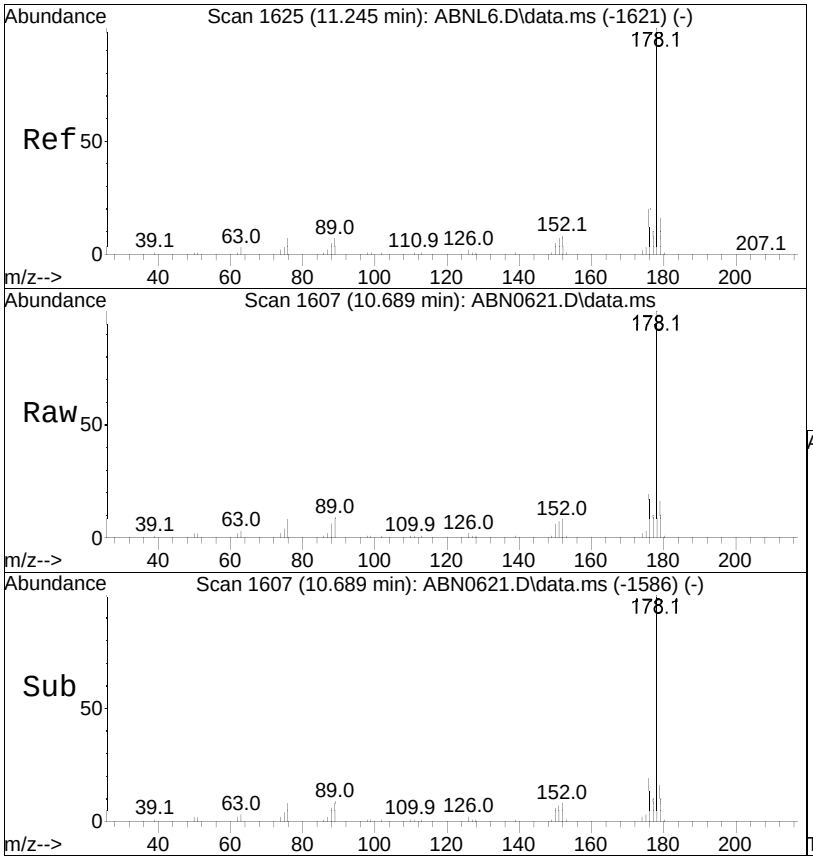


#88
Phenanthrene
Concen: 5.18 ug/ml
RT: 10.642 min Scan# 1599
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:178 Resp: 425740

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.8	15.4	23.2

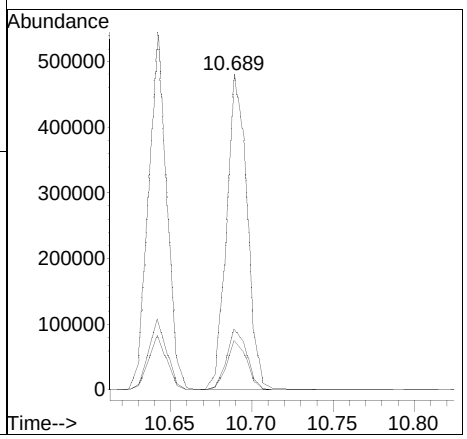


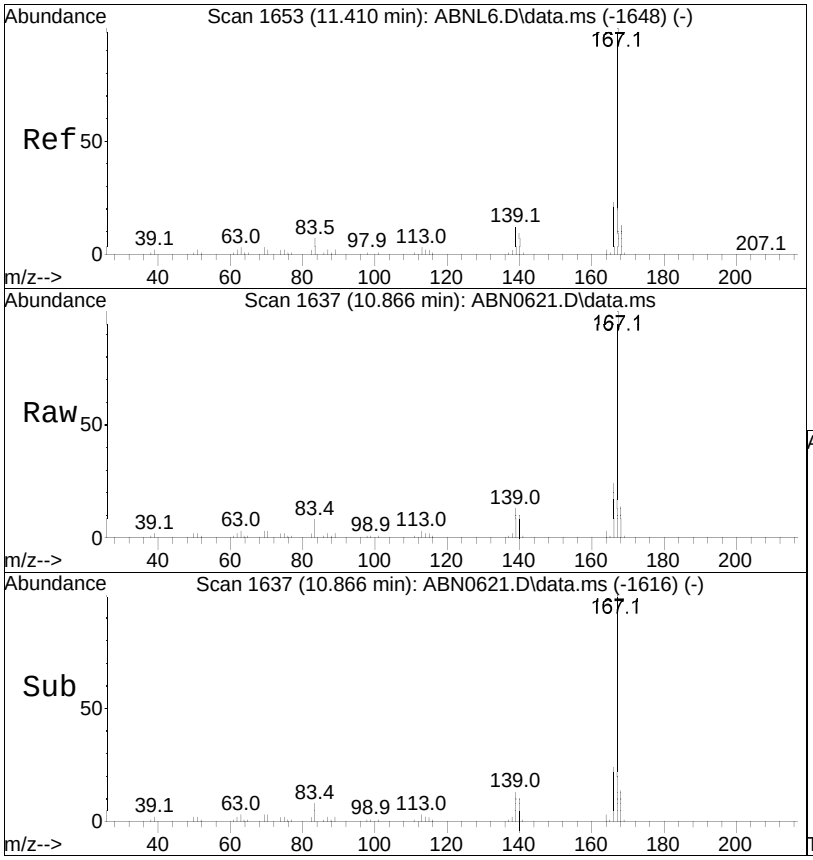


#89
Anthracene
Concen: 5.17 ug/ml
RT: 10.689 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:178 Resp: 420756

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.0	18.0
176	19.3	14.6	22.0

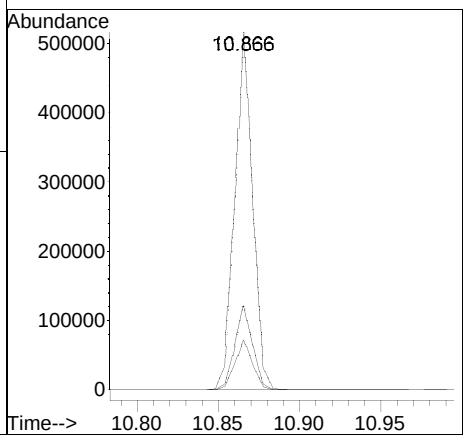


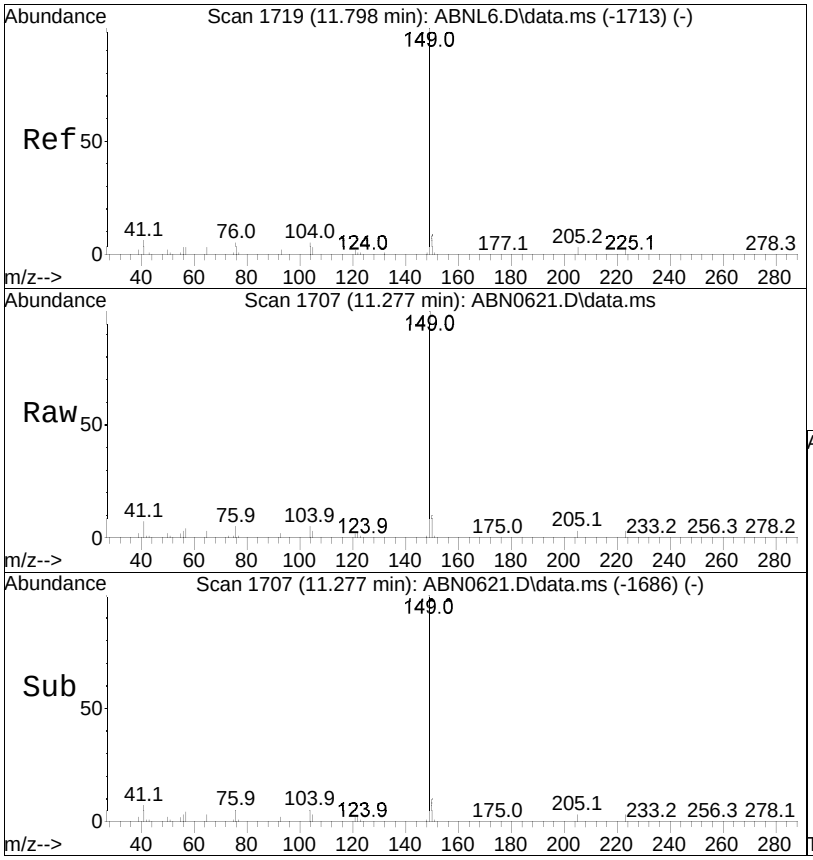


#90
Carbazole
Concen: 5.29 ug/ml
RT: 10.866 min Scan# 1637
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:167 Resp: 388274

Ion	Ratio	Lower	Upper
167	100		
168	14.0	10.6	15.8
166	23.6	17.4	26.0

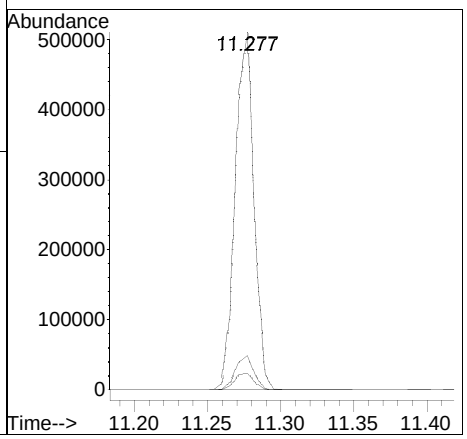


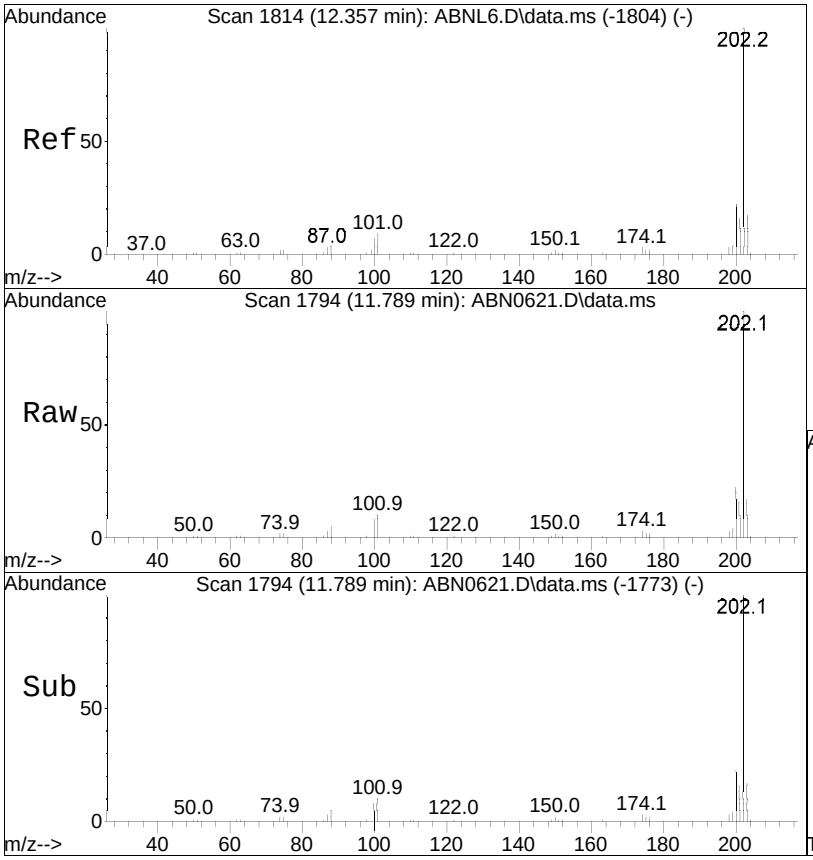


#91
Di-n-butylphthalate
Concen: 5.18 ug/ml
RT: 11.277 min Scan# 1707
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:149 Resp: 446073

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.0	10.6
104	5.0	4.5	6.7

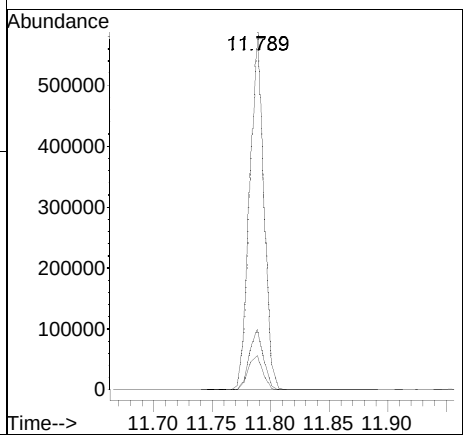


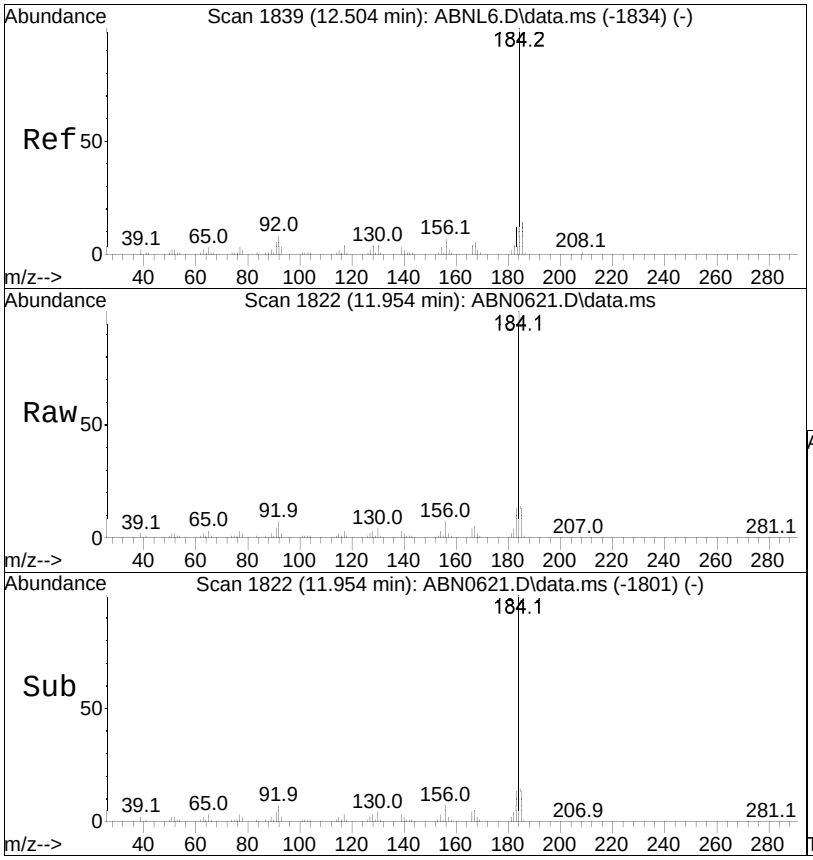


#92
Fluoranthene
Concen: 5.20 ug/ml
RT: 11.789 min Scan# 1794
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:202 Resp: 487736

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.2	13.6	20.4

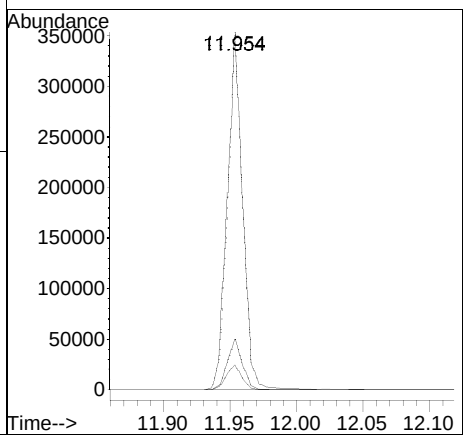


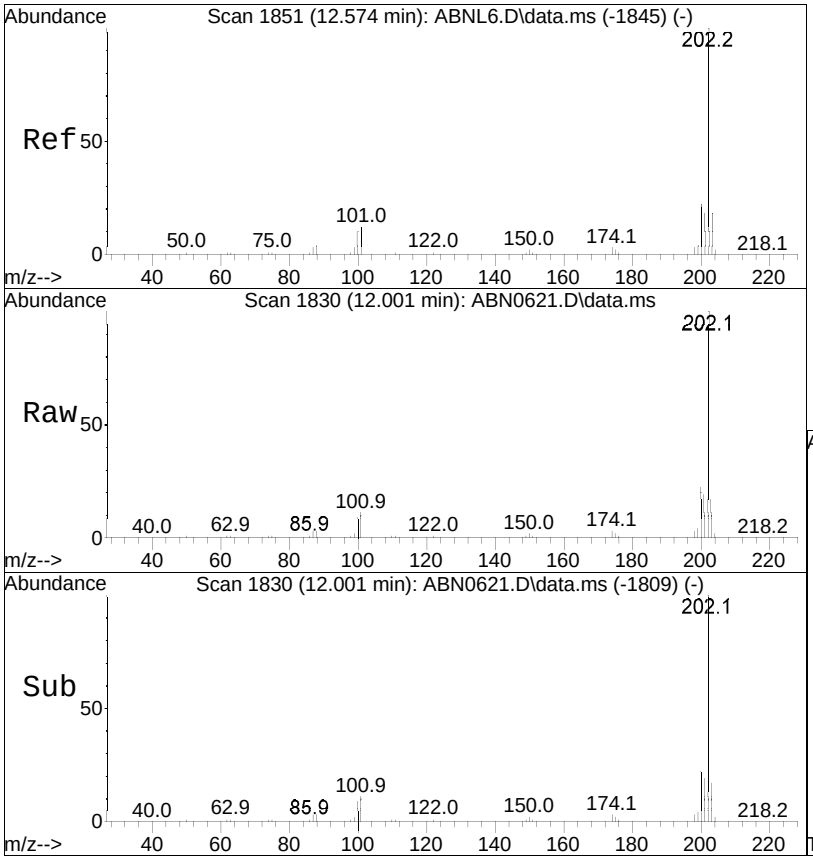


#93
Benzidine
Concen: 4.85 ug/ml
RT: 11.954 min Scan# 1822
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:184 Resp: 276293

Ion	Ratio	Lower	Upper
184	100		
92	7.3	9.1	13.7#
185	14.2	11.1	16.7

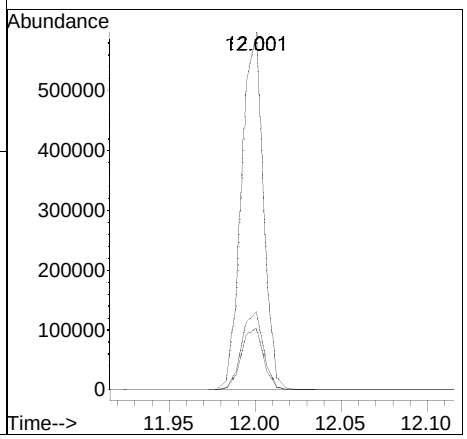


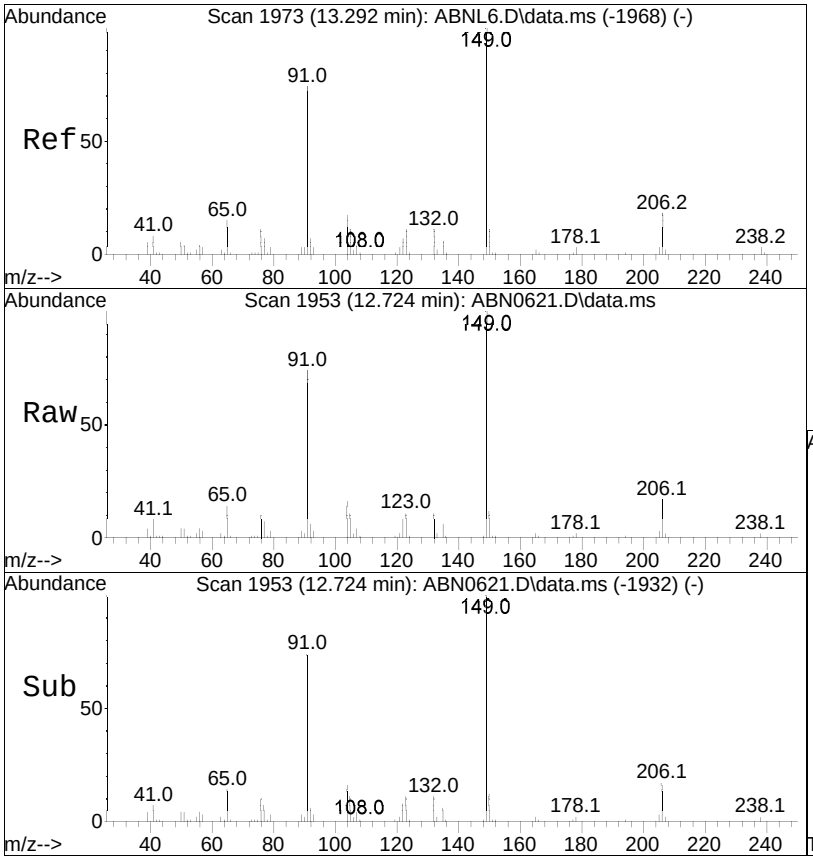


#94
Pyrene
Concen: 5.21 ug/ml
RT: 12.001 min Scan# 1830
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:202 Resp: 522612

Ion	Ratio	Lower	Upper
202	100		
200	22.0	16.7	25.1
203	17.6	14.2	21.4

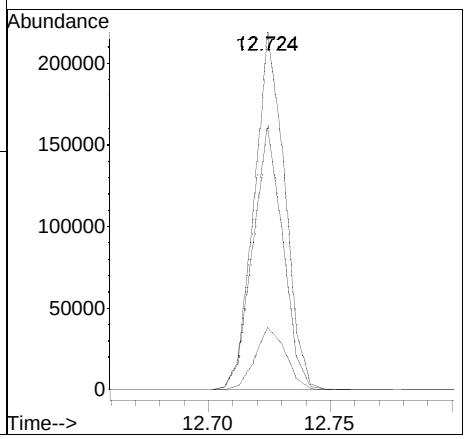


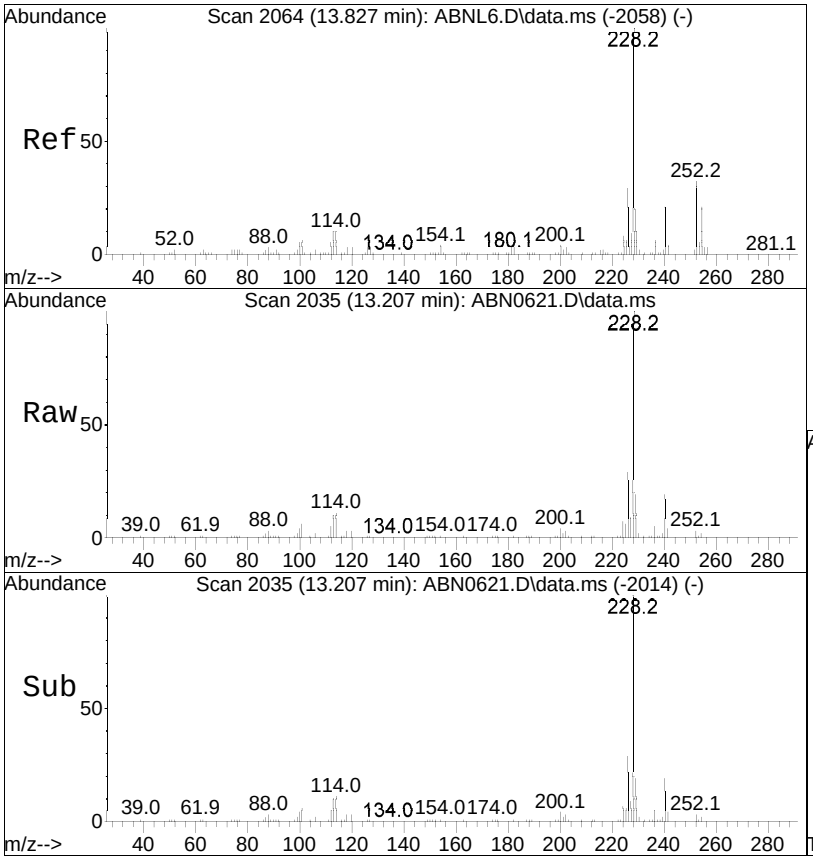


#96
Butyl benzyl phthalate
Concen: 4.63 ug/ml
RT: 12.724 min Scan# 1953
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:149 Resp: 187960

Ion	Ratio	Lower	Upper
149	100		
91	73.1	63.3	94.9
206	17.6	13.9	20.9

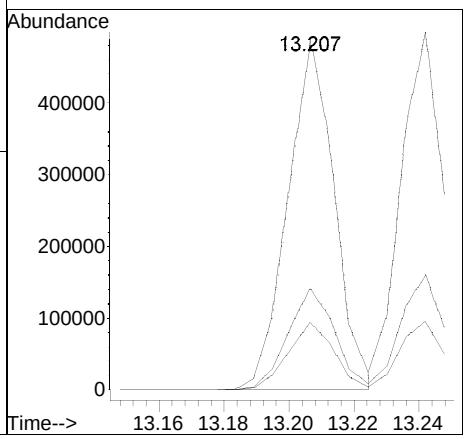


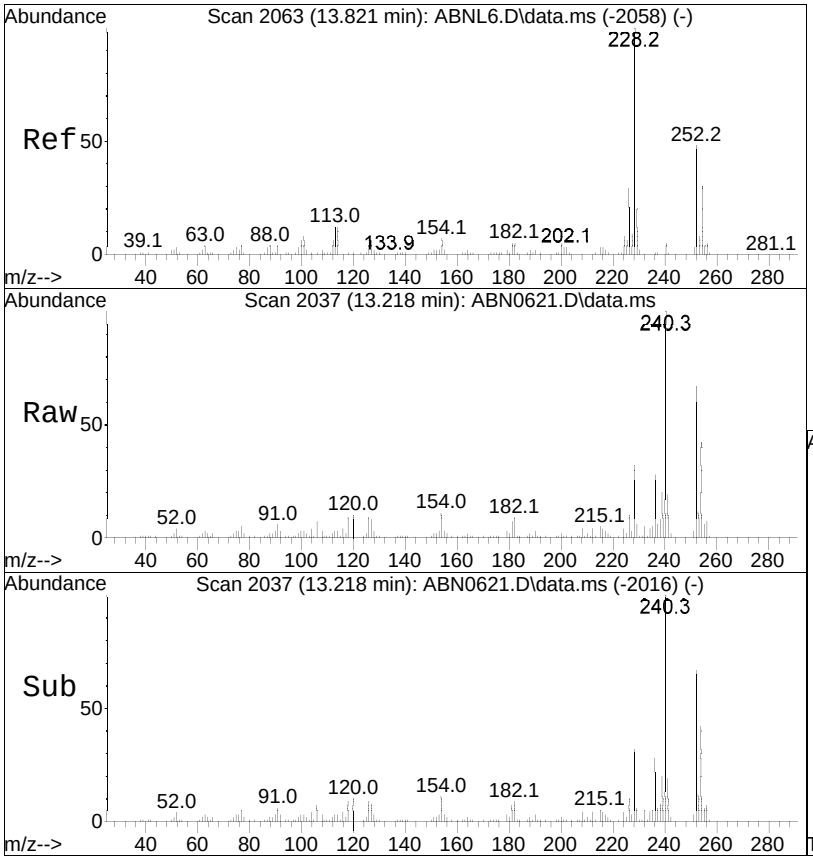


#104
Benzo(a)anthracene
Concen: 5.12 ug/ml
RT: 13.207 min Scan# 2035
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:228 Resp: 483334

Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.2	33.4
229	19.4	15.6	23.4

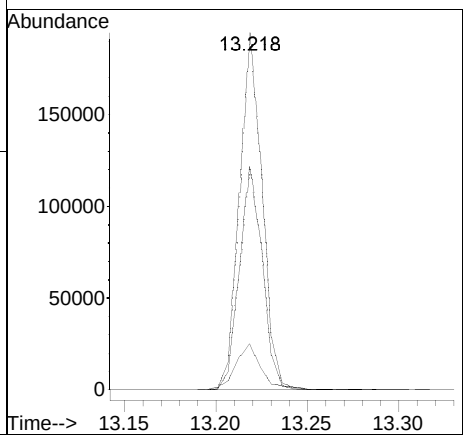


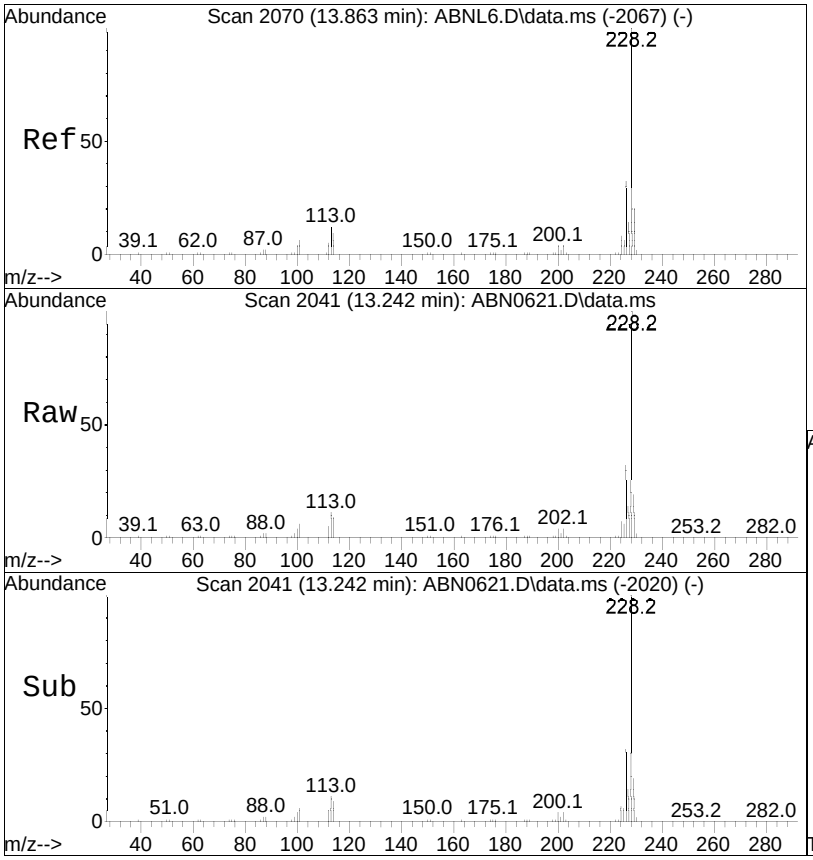


#105
3,3'-Dichlorobenzidine
Concen: 5.46 ug/ml
RT: 13.218 min Scan# 2037
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:252 Resp: 166114

Ion	Ratio	Lower	Upper
252	100		
126	15.0	14.5	21.7
254	63.8	51.2	76.8

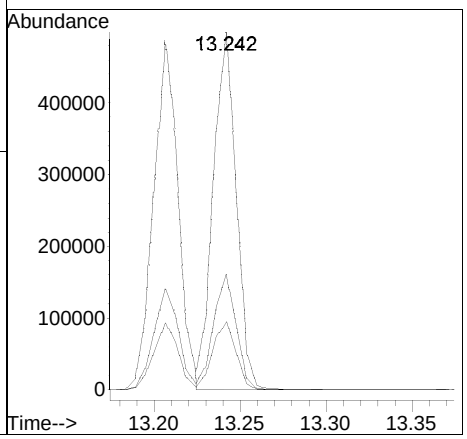


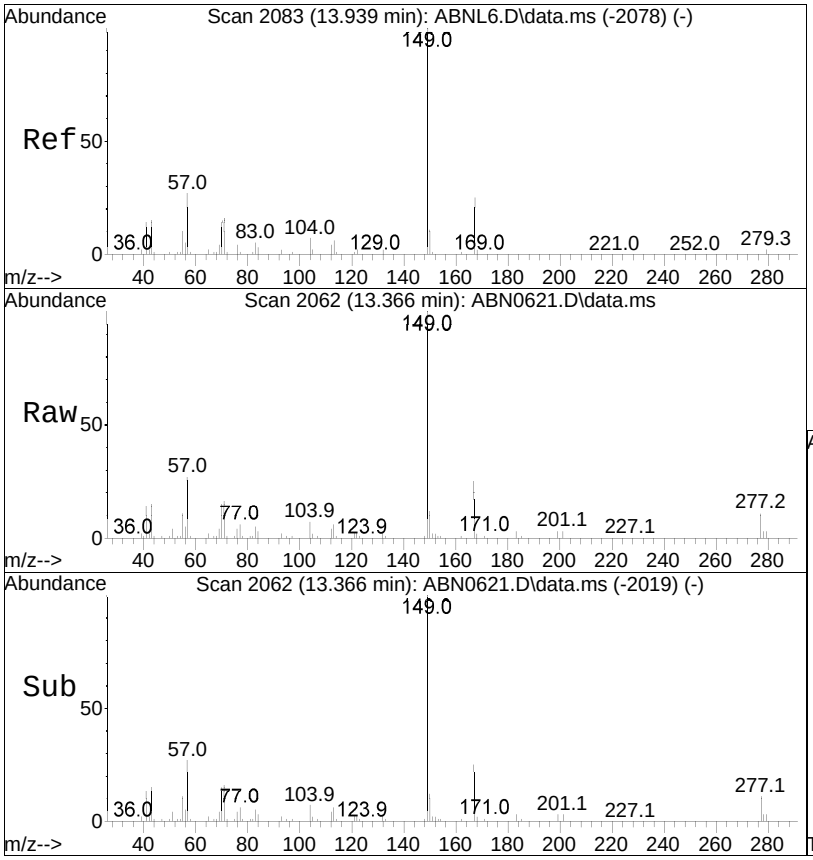


#106
Chrysene
Concen: 5.12 ug/ml
RT: 13.242 min Scan# 2041
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:228 Resp: 461863

Ion	Ratio	Lower	Upper
228	100		
226	32.0	24.0	36.0
229	19.4	15.8	23.8

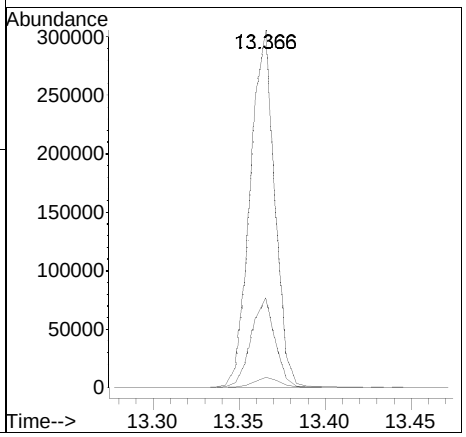


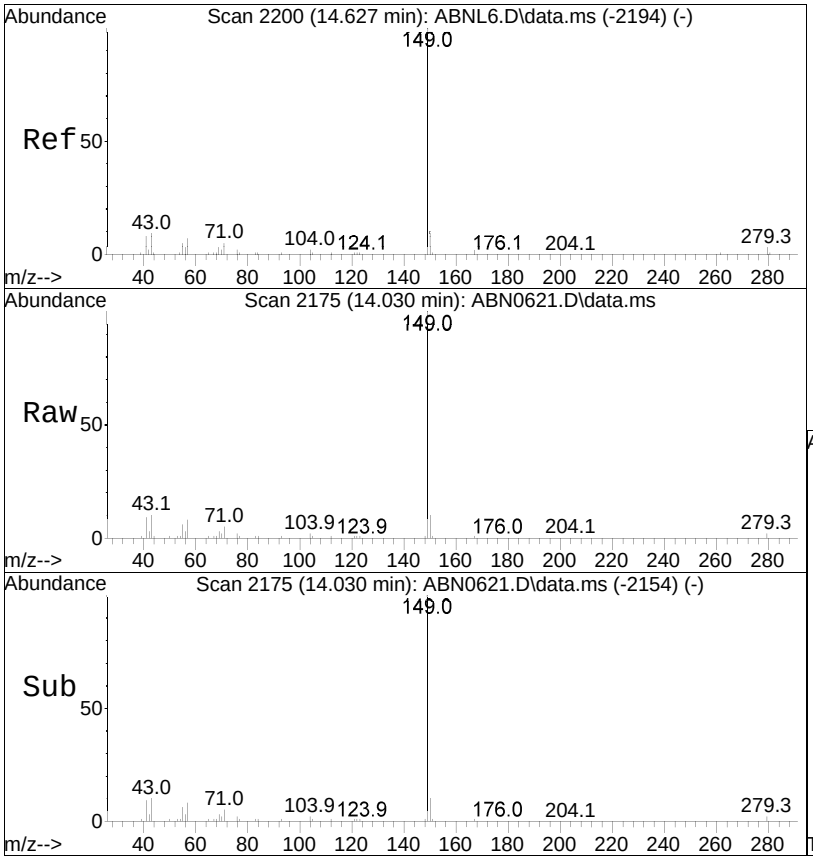


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.92 ug/ml
RT: 13.366 min Scan# 2062
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:149 Resp: 299395

Ion	Ratio	Lower	Upper
149	100		
167	24.6	22.1	33.1
279	2.8	3.0	4.4#

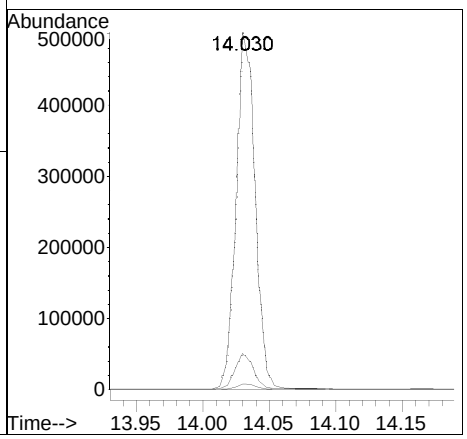


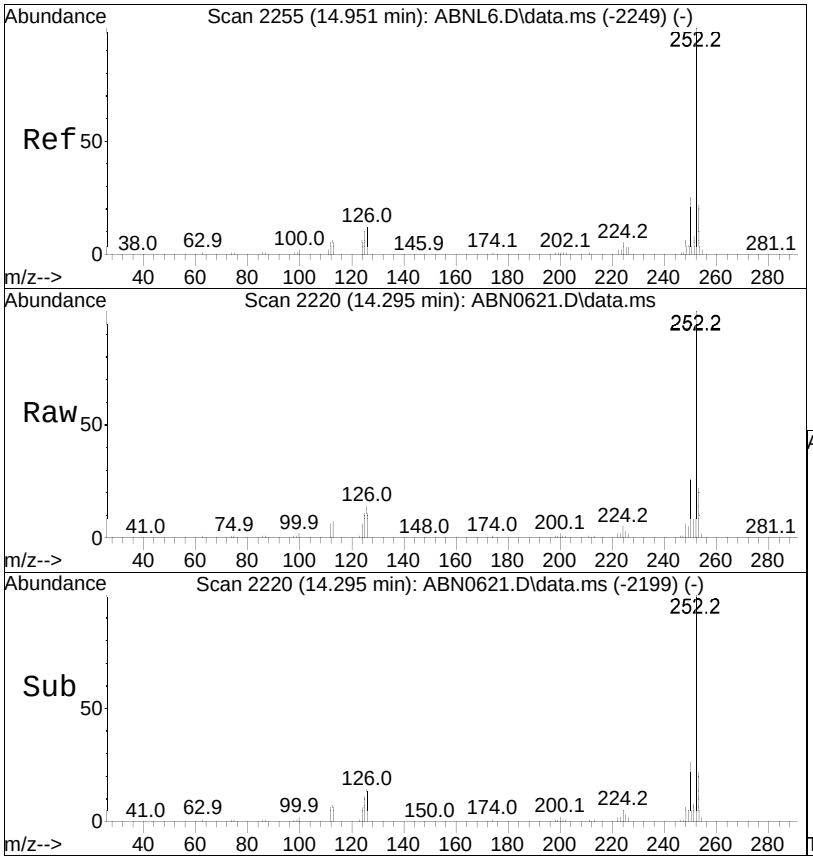


#108
Di-n-octylphthalate
Concen: 4.95 ug/ml
RT: 14.030 min Scan# 2175
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:149 Resp: 491457

Ion	Ratio	Lower	Upper
149	100		
43	10.0	18.8	28.2#
167	1.4	1.3	1.9

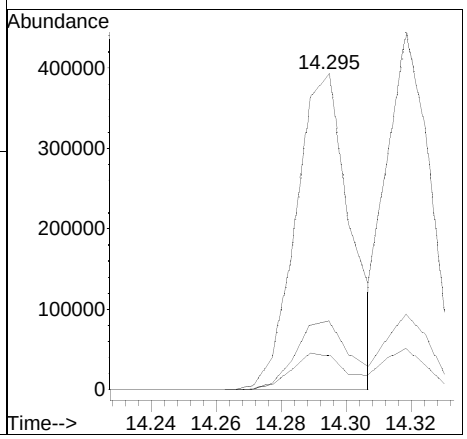


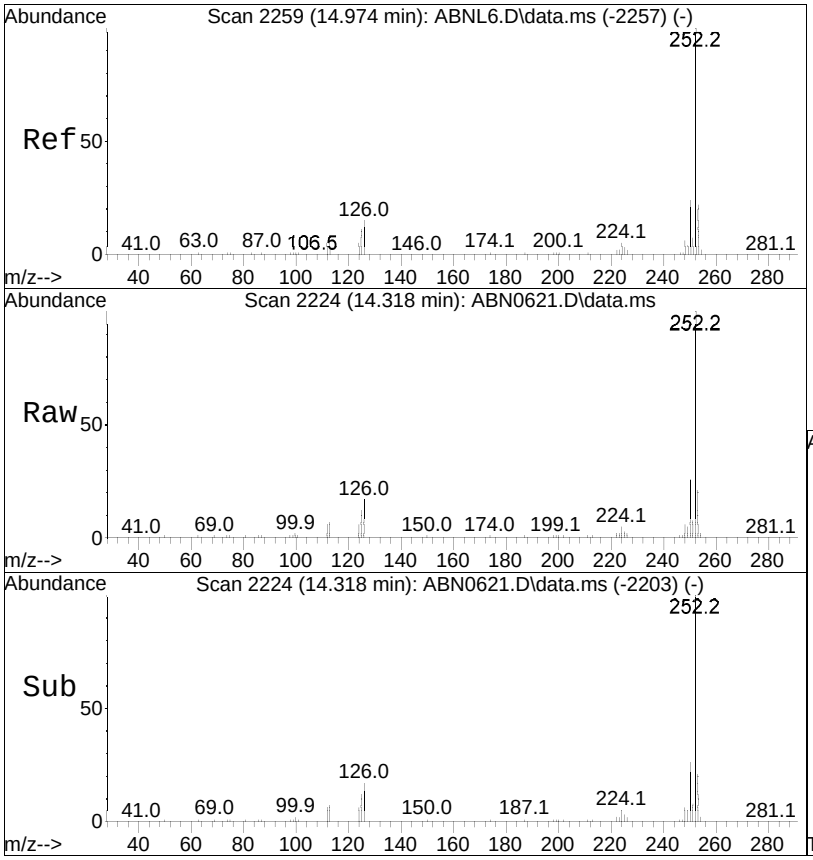


#109
Benzo(b)fluoranthene
Concen: 5.53 ug/ml
RT: 14.295 min Scan# 2220
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:252 Resp: 460984

Ion	Ratio	Lower	Upper
252	100		
125	12.2	13.3	19.9#
253	21.8	17.1	25.7

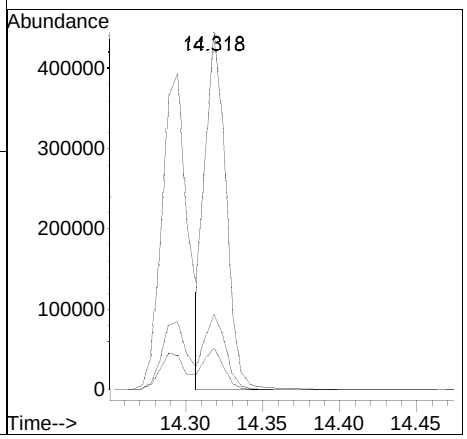


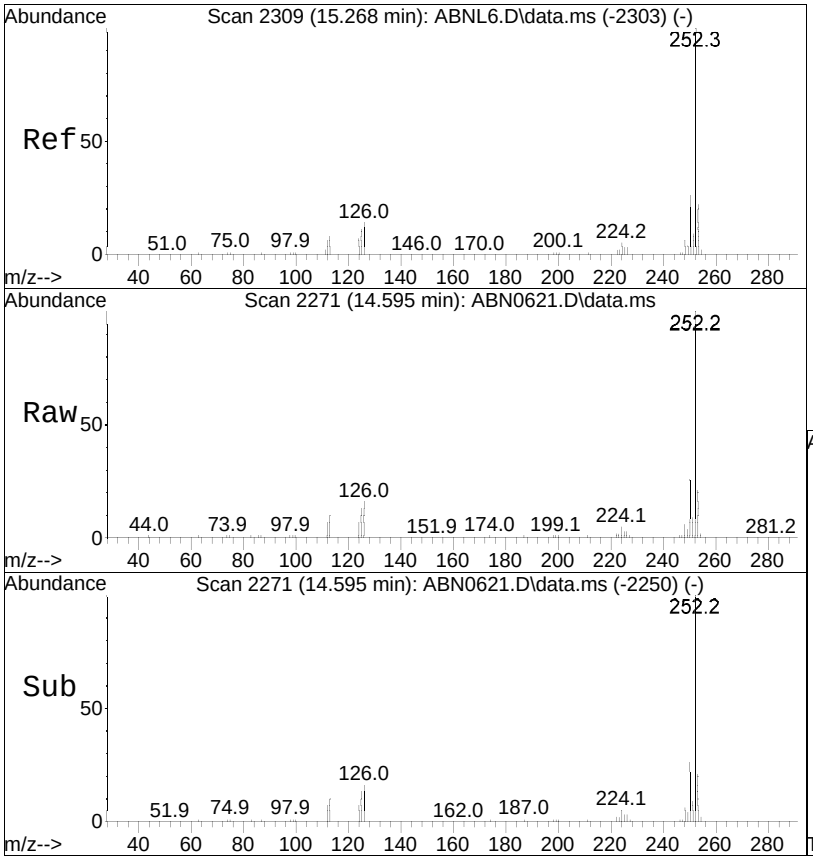


#110
Benzo(k)fluoranthene
Concen: 5.14 ug/ml
RT: 14.318 min Scan# 2224
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:252 Resp: 419320

Ion	Ratio	Lower	Upper
252	100		
125	11.2	13.0	19.6#
253	21.3	16.8	25.2

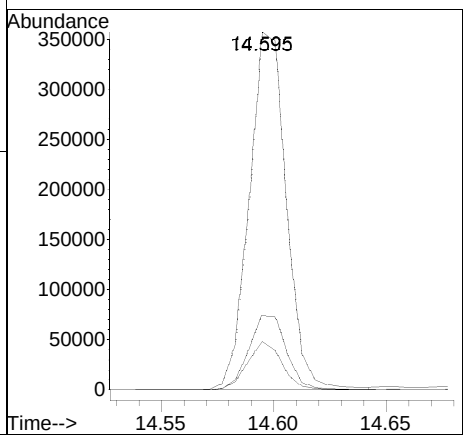


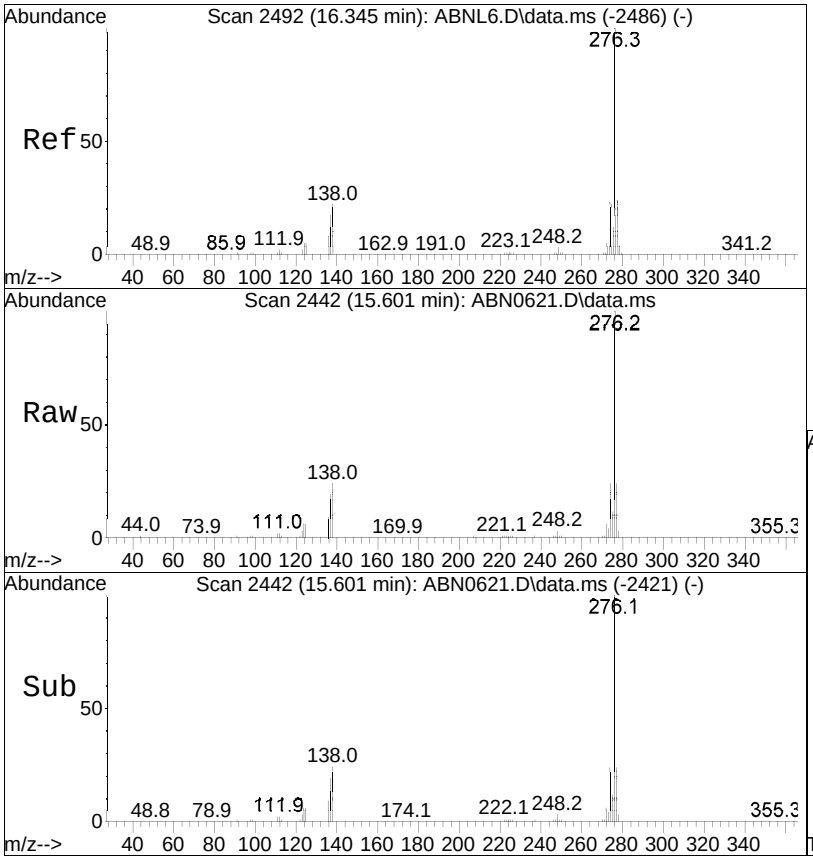


#111
Benzo(a)pyrene
Concen: 5.57 ug/ml
RT: 14.595 min Scan# 2271
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:252 Resp: 404174

Ion	Ratio	Lower	Upper
252	100		
125	12.9	14.2	21.2#
253	21.4	16.9	25.3

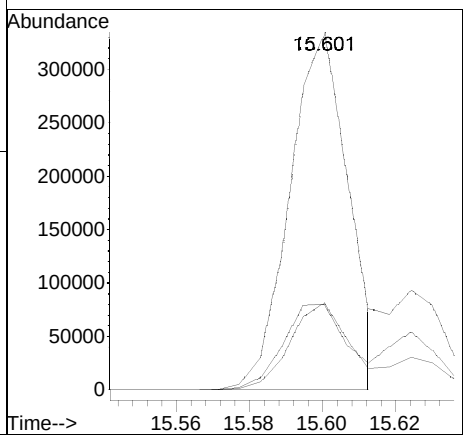


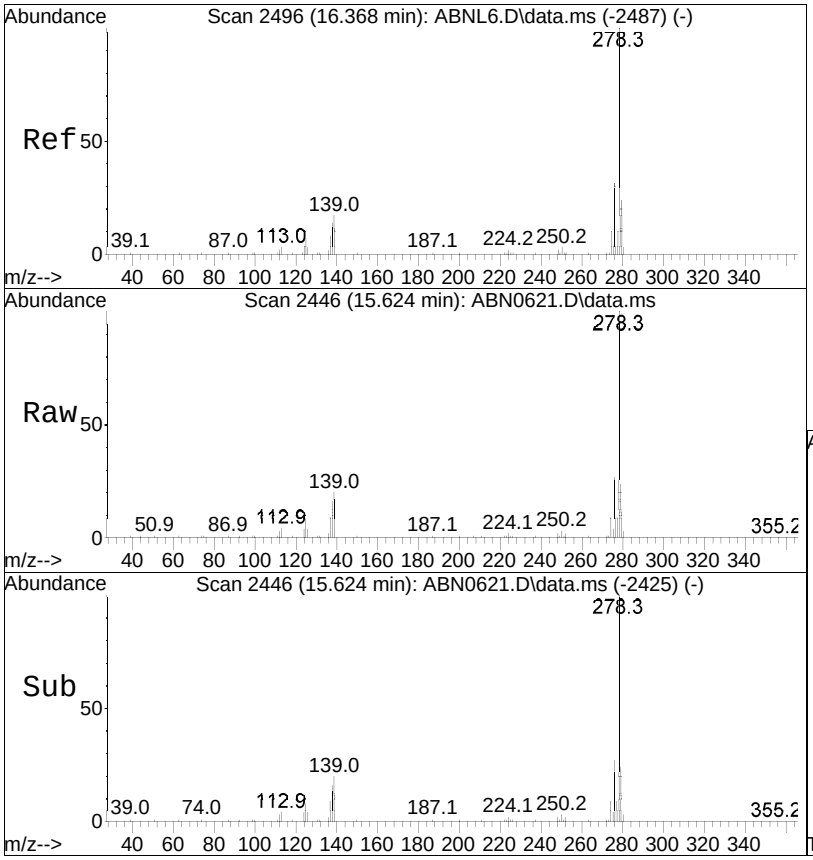


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.57 ug/mL M6
RT: 15.601 min Scan# 2442
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:276 Resp: 373467

Ion	Ratio	Lower	Upper
276	100		
138	26.5	25.1	37.7
277	26.2	18.6	28.0

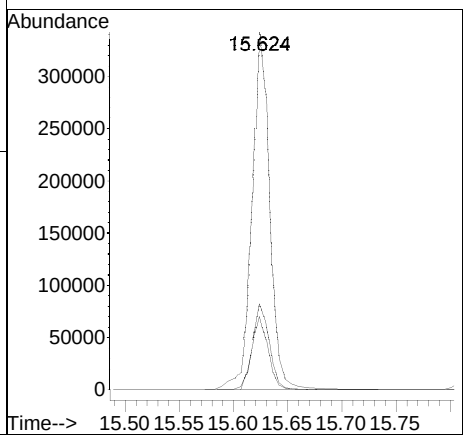


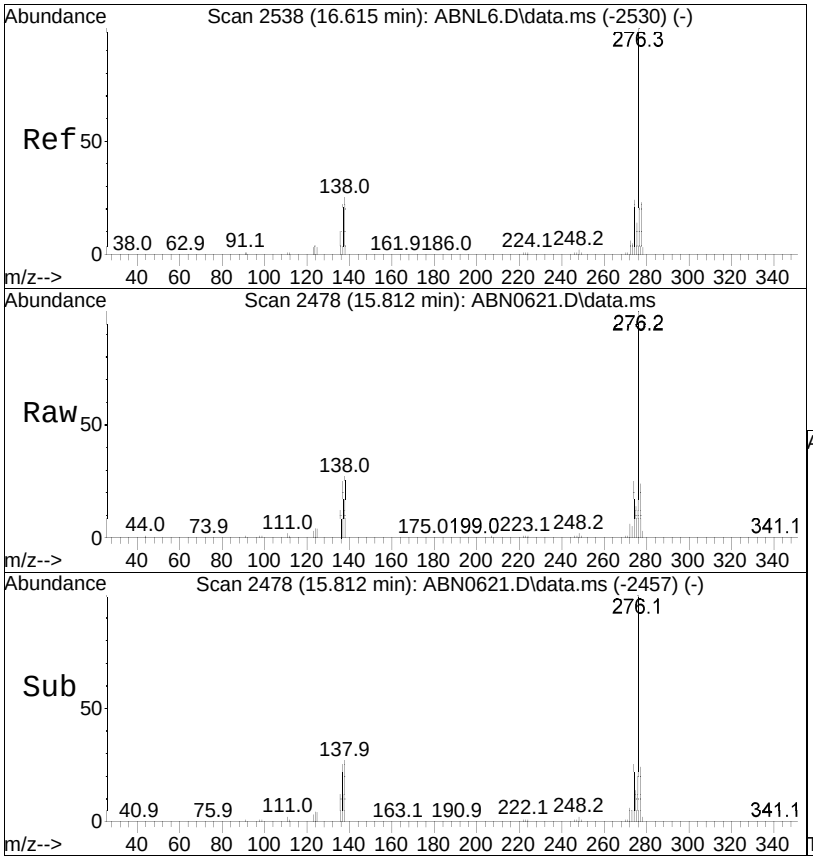


#114
Dibenzo(a,h)anthracene
Concen: 5.78 ug/ml
RT: 15.624 min Scan# 2446
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:278 Resp: 387975

Ion	Ratio	Lower	Upper
278	100		
139	19.2	20.8	31.2#
279	23.2	18.3	27.5

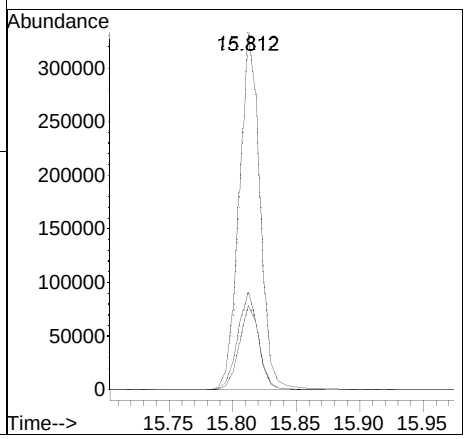




#115
Benzo(ghi)perylene
Concen: 5.70 ug/ml
RT: 15.812 min Scan# 2478
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2024 3:25 pm

Tgt Ion:276 Resp: 372870

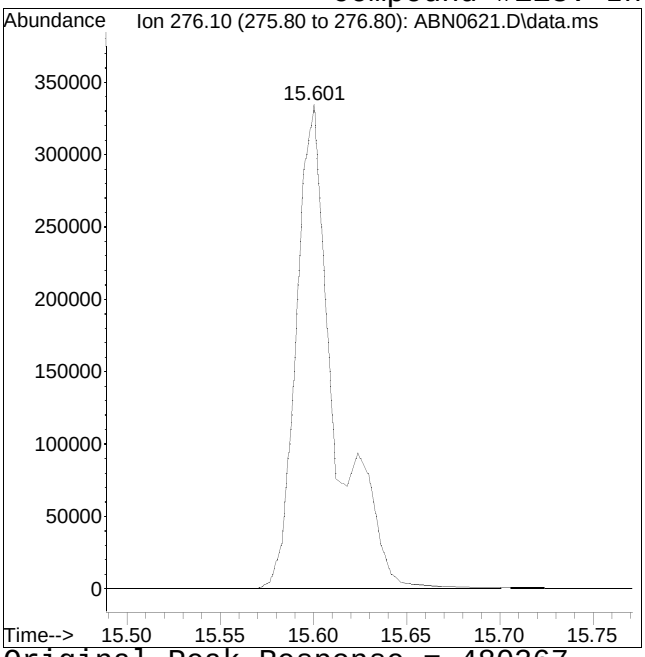
Ion	Ratio	Lower	Upper
276	100		
138	27.6	29.2	43.8#
277	23.7	18.8	28.2



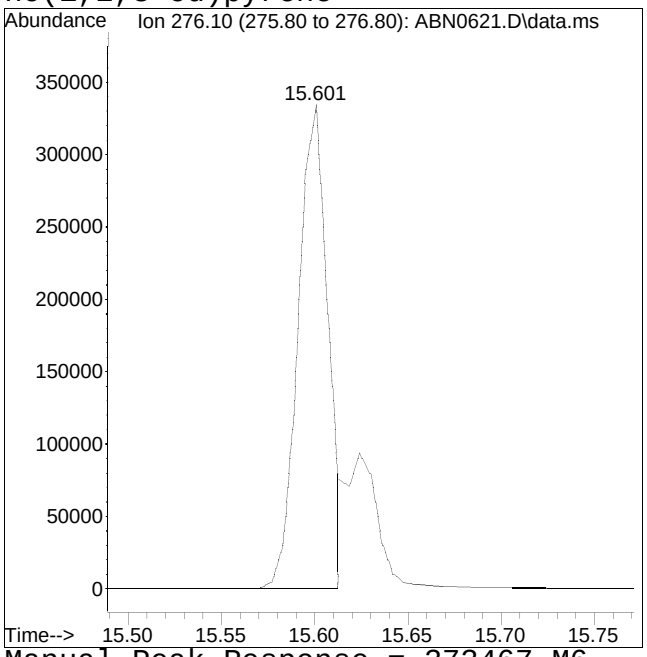
Manual Integration Report

Data Path : I:\8270\SV107\240621RVT\ QMethod : FS240602SV107RVT.m
Data File : ABN0621.D Operator : SV107:cmm
Date Inj'd : 6/21/2024 3:25 pm Instrument : SV107
Sample : WG1937738-3,32,,ABN 10777 Quant Date : 6/22/2024 9:10 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 480367



Manual Peak Response = 373467 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240621RVT\
Data File : AP90621.D
Acq On : 21 Jun 2024 3:51 pm
Operator : SV107:cmm
Sample : WG1937738-4,32,,AP9 10776 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 21 16:33:45 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 16:34:16 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	143	0.00
28	T	Benzaldehyde		1.024	1.071	-4.6	160	0.00
29	T	Acetophenone		1.770	1.880	-6.2	158	0.00
30	T	m-Toluidine		1.599	1.825	-14.1	160	0.00
31	T	2-Chloroaniline		1.546	1.674	-8.3	159	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	138	0.00
55	T	a-Terpineol		0.276	0.320	-15.9	171	0.00
56	T	3-Chloroaniline		0.147	0.170	-15.6	168	0.00
57	T	2,6-Dichlorophenol		0.290	0.334	-15.2	164	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.156	-28.9#	193	0.00
59	T	Caprolactam		0.149	0.174	-16.8	169	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.409	-1.7	153	0.00
61	T	Biphenyl		0.929	0.987	-6.2	159	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	143	0.00
83	T	Dichloran	*	5.000	6.179	-23.6#	219	0.00
84	T	Pentachloronitrobenzene	*	5.000	5.861	-17.2	191	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	141	0.00
98	T	Diphenamid		0.445	0.505	-13.5	165	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : AP90621.D
Acq On : 21 Jun 2024 3:51 pm
Operator : SV107:cmm
Sample : WG1937738-4,32,,AP9 10776 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 21 16:33:45 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 16:34:16 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	5.931	152	63614	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	7.419	136	233983	4.000	ug/ml		0.00
82) IS2_Acenaphthene-d10	9.195	164	143096	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	10.619	188	304163	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.290	105	85145	5.229	ug/ml		99
29) Acetophenone	6.472	105	149506	5.311	ug/ml	#	84
30) m-Toluidine	6.578	106	145087	5.705	ug/ml		95
31) 2-Chloroaniline	6.995	127	133117	5.413	ug/ml		95
55) a-Terpineol	7.507	59	93577	5.788	ug/ml	#	82
56) 3-Chloroaniline	7.519	65	49843	5.782	ug/ml		84
57) 2,6-Dichlorophenol	7.542	162	97779	5.765	ug/ml	#	88
58) 1-chloro-2-nitrobenzene	7.813	111	45560	6.428	ug/ml	#	1
59) Caprolactam	7.860	55	50805	5.824	ug/ml	#	74
60) 1,2,4,5-Tetrachloroben...	8.348	216	119599	5.086	ug/ml		98
61) Biphenyl	8.654	154	288696	5.312	ug/ml		99
83) Dichloran	10.330	206	30813	6.179	ug/ml	#	72
84) Pentachloronitrobenzene	10.477	237	31833	5.861	ug/ml	#	84
98) Diphenamid	11.542	167	192032	5.675	ug/ml		84

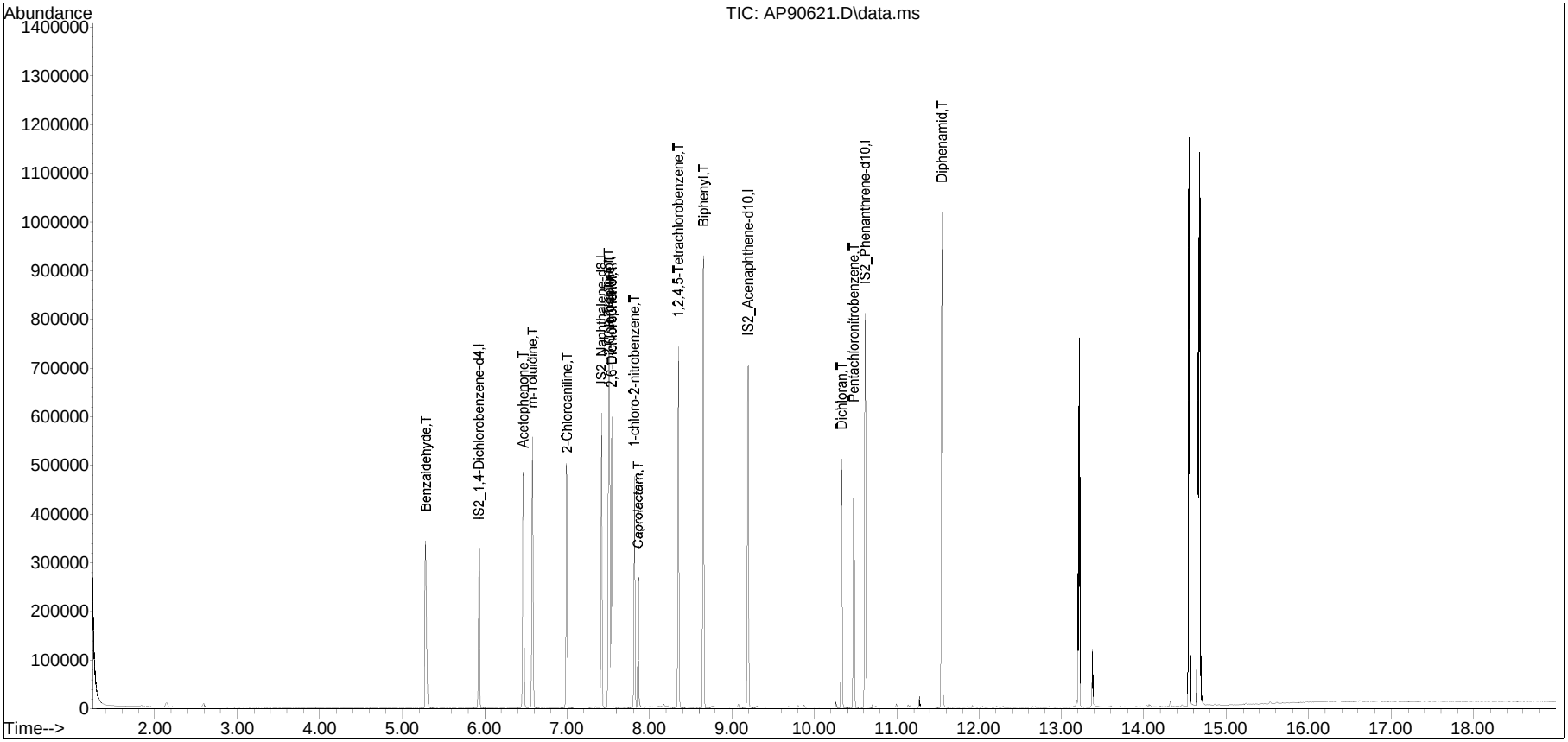
(#) = qualifier out of range (m) = manual integration (+) = signals summed

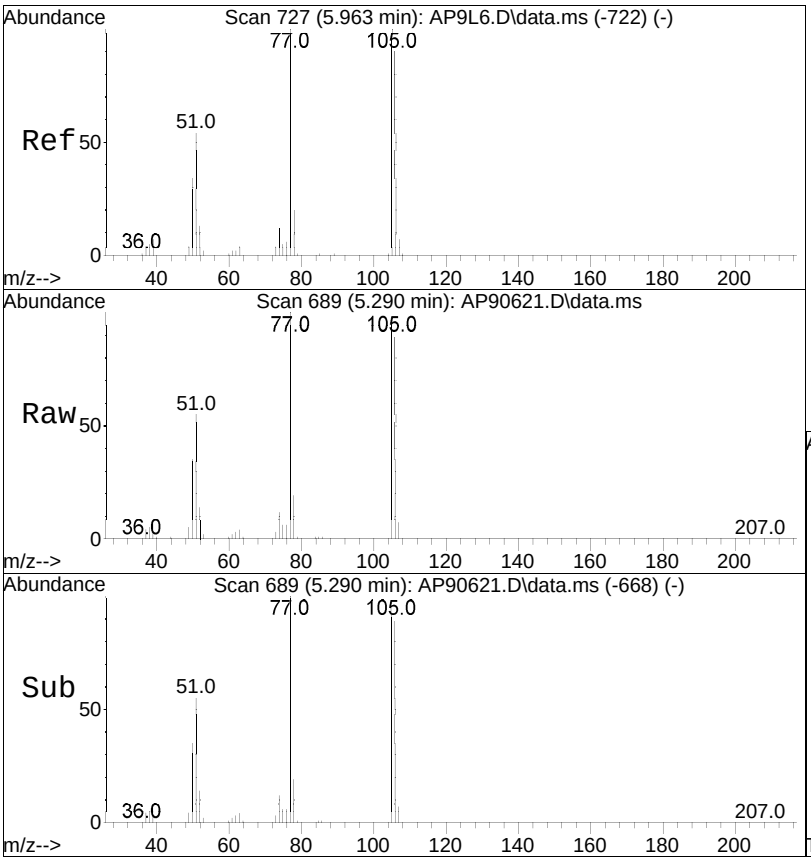
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : AP90621.D
Acq On : 21 Jun 2024 3:51 pm
Operator : SV107:cmm
Sample : WG1937738-4,32,,AP9 10776 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 21 16:33:45 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 16:34:16 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

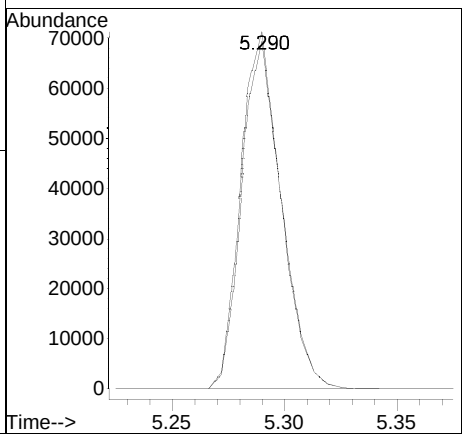


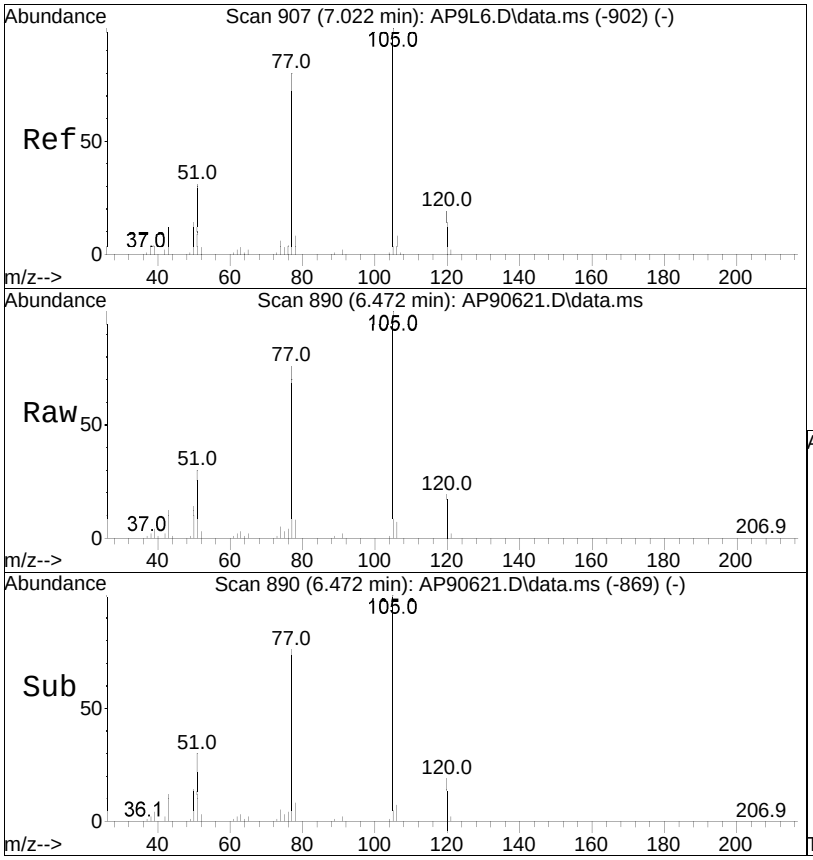


#28
Benzaldehyde
Concen: 5.23 ug/ml
RT: 5.290 min Scan# 689
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:105 Resp: 85145

Ion	Ratio	Lower	Upper
105	100		
77	103.6	82.2	123.4

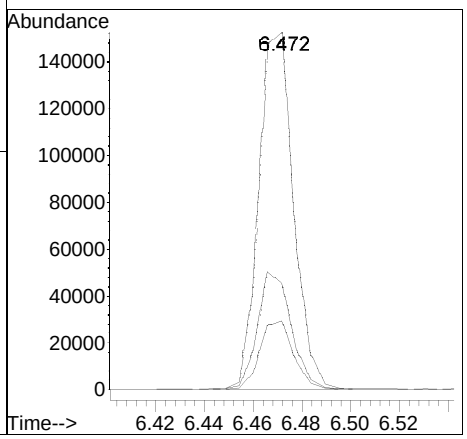


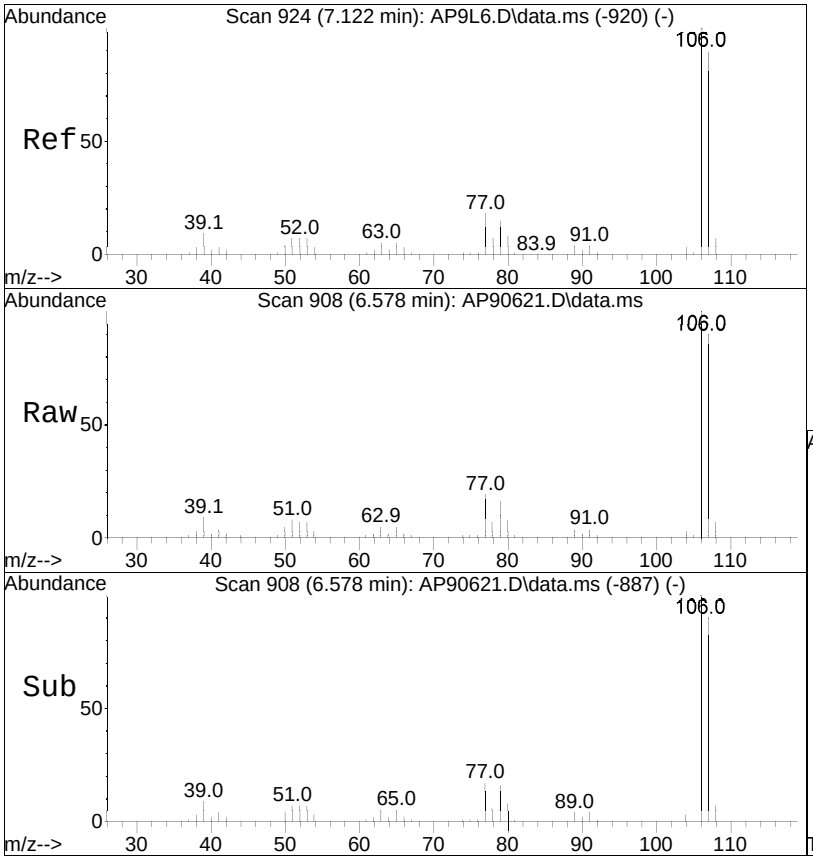


#29
Acetophenone
Concen: 5.31 ug/ml
RT: 6.472 min Scan# 890
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:105 Resp: 149506

Ion	Ratio	Lower	Upper
105	100		
120	18.9	20.5	30.7#
51	32.4	34.9	52.3#

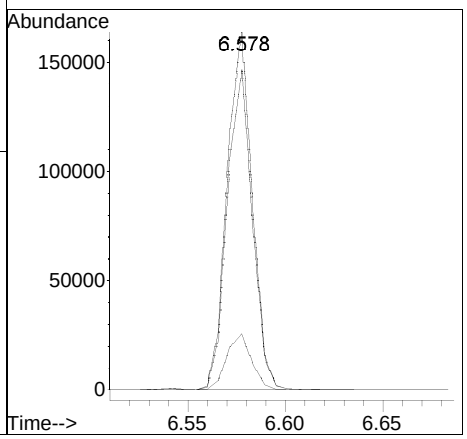


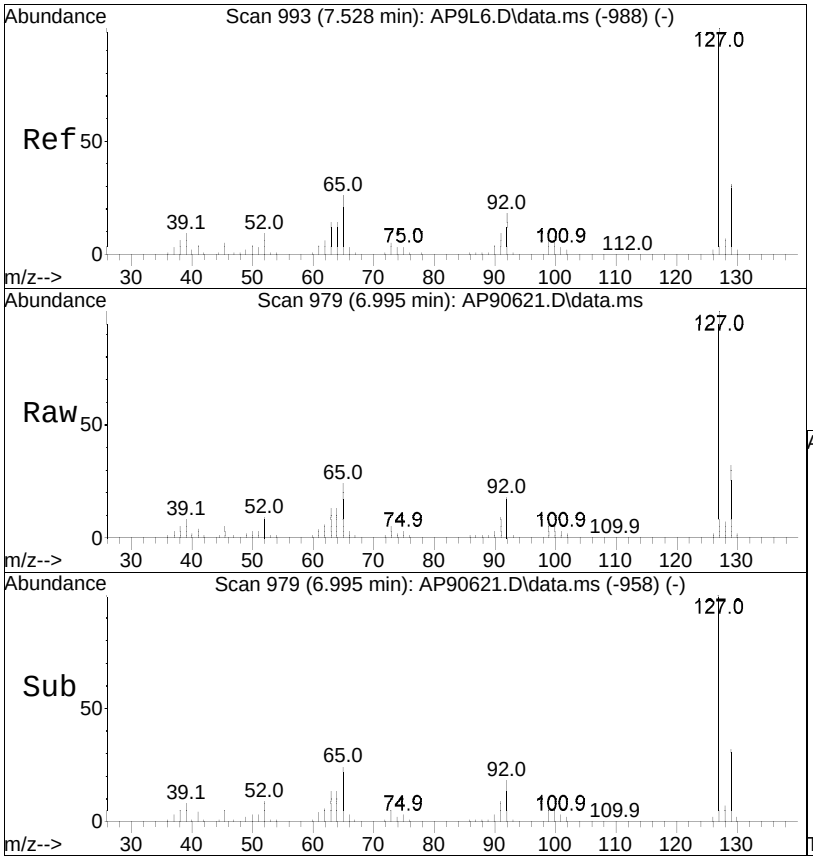


#30
m-Toluidine
Concen: 5.71 ug/ml
RT: 6.578 min Scan# 908
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:106 Resp: 145087

Ion	Ratio	Lower	Upper
106	100		
107	89.4	75.7	113.5
79	15.6	11.8	17.8

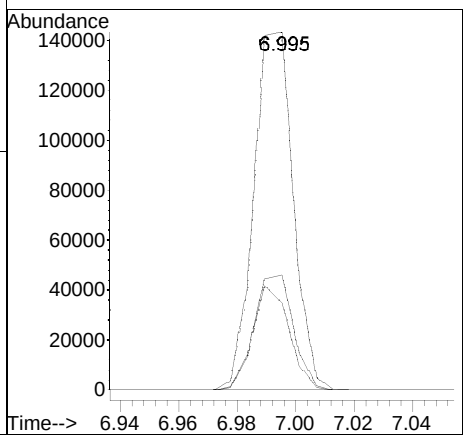


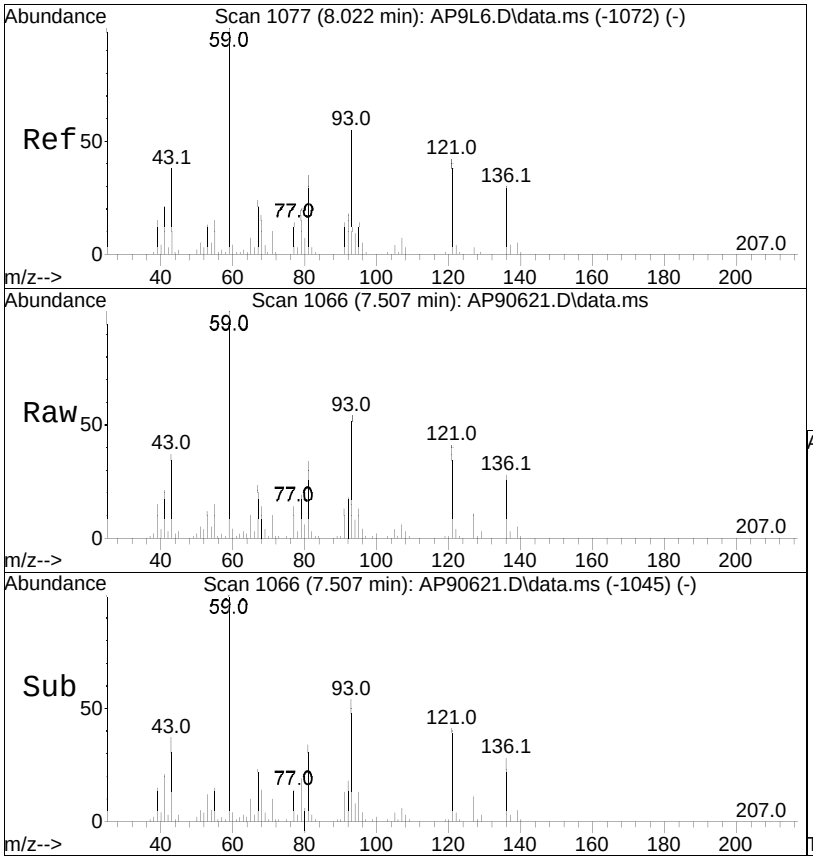


#31
2-Chloroaniline
Concen: 5.41 ug/ml
RT: 6.995 min Scan# 979
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:127 Resp: 133117

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.9	38.9
65	27.2	26.3	39.5

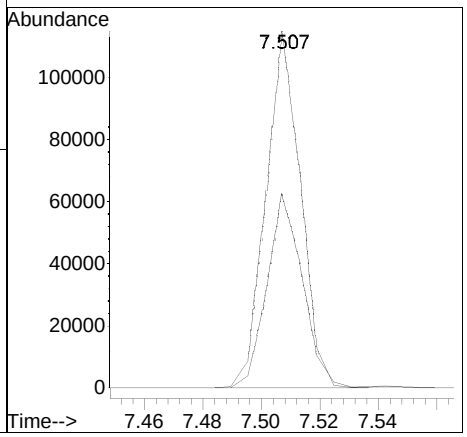


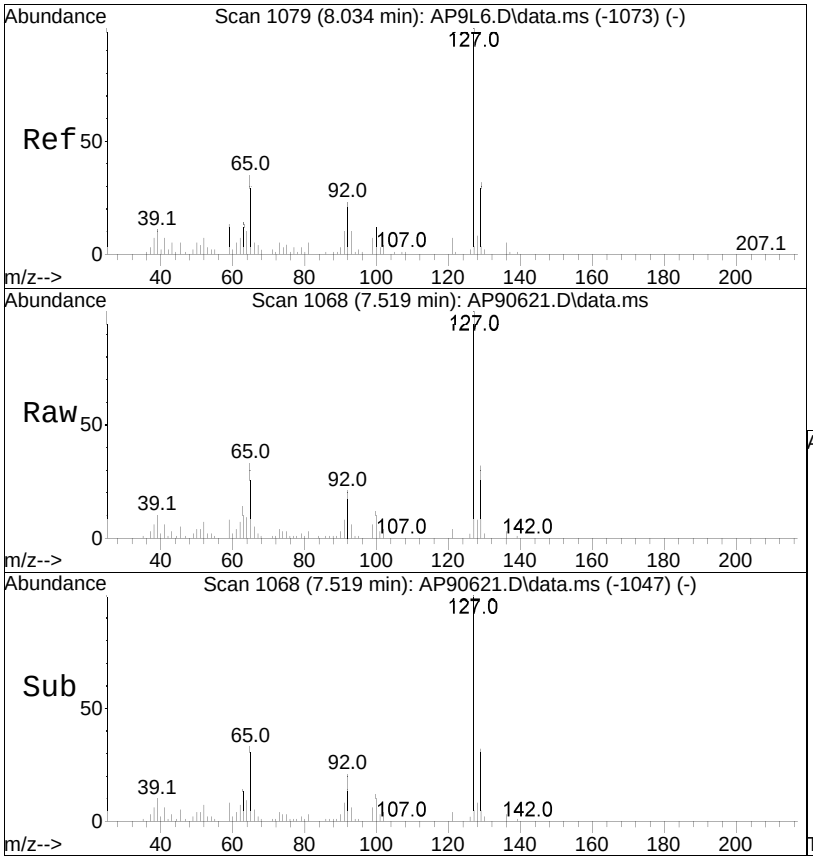


#55
a-Terpineol
Concen: 5.79 ug/ml
RT: 7.507 min Scan# 1066
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion: 59 Resp: 93577

Ion	Ratio	Lower	Upper
59	100		
93	56.1	35.6	53.4#

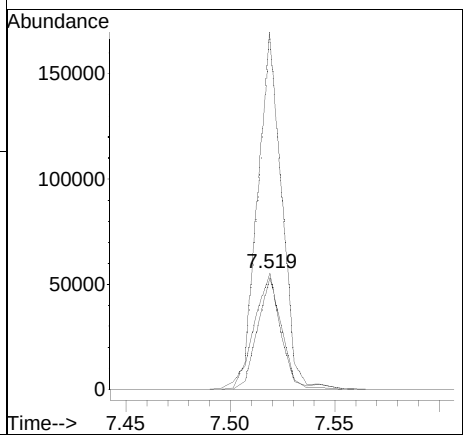


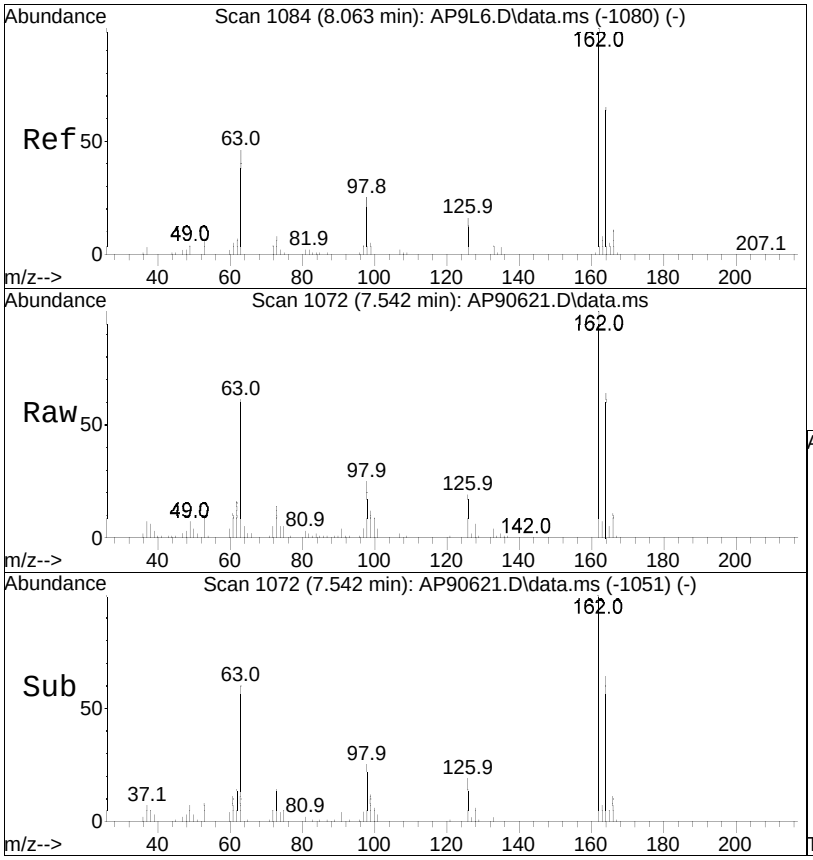


#56
3-Chloroaniline
Concen: 5.78 ug/ml
RT: 7.519 min Scan# 1068
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion: 65 Resp: 49843

Ion	Ratio	Lower	Upper
65	100		
127	269.4	243.2	364.8
129	85.7	78.8	118.2

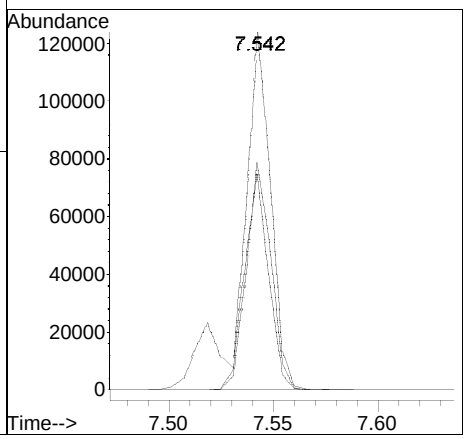


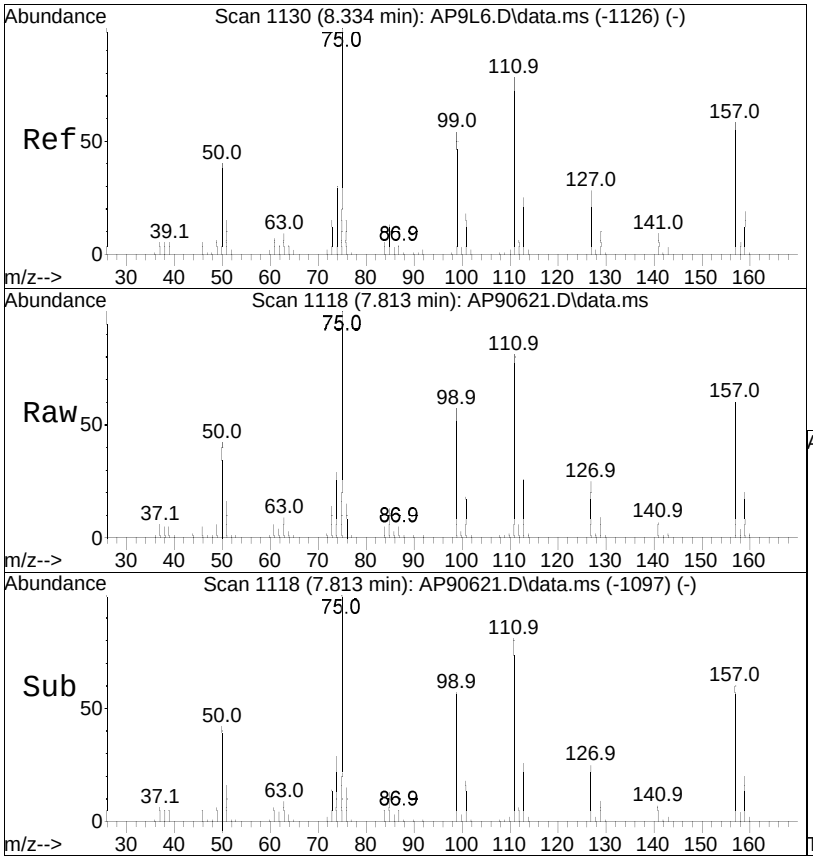


#57
2,6-Dichlorophenol
Concen: 5.77 ug/ml
RT: 7.542 min Scan# 1072
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:162 Resp: 97779

Ion	Ratio	Lower	Upper
162	100		
164	64.7	51.1	76.7
63	57.6	60.8	91.2#

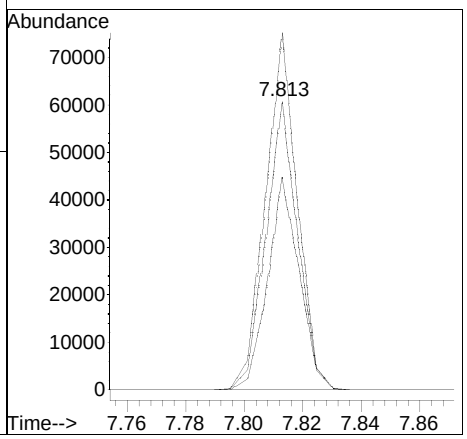


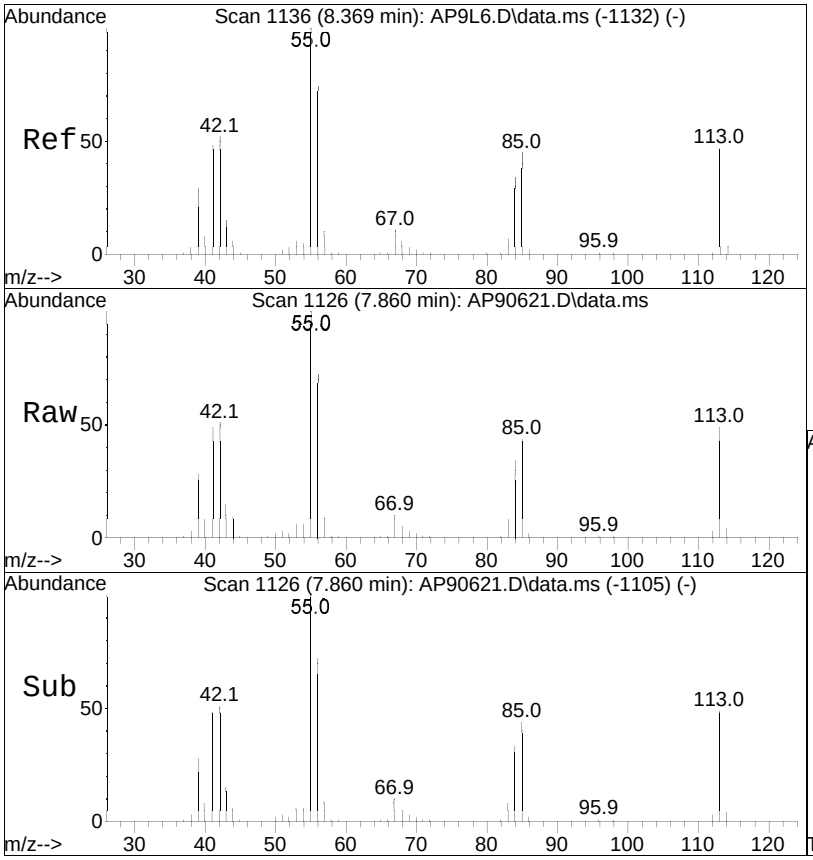


#58
1-chloro-2-nitrobenzene
Concen: 6.43 ug/ml
RT: 7.813 min Scan# 1118
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:111 Resp: 45560

Ion	Ratio	Lower	Upper
111	100		
157	73.0	0.0	0.0#
75	124.3	28.2	42.2#

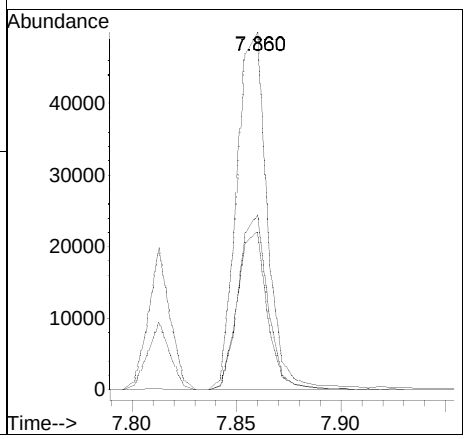


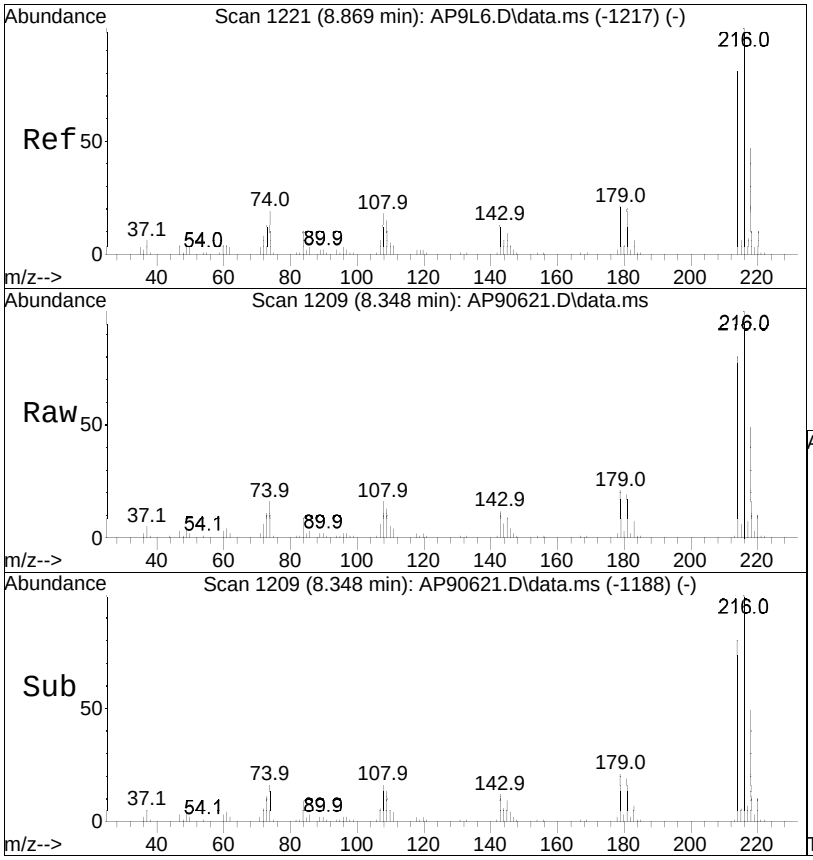


#59
Caprolactam
Concen: 5.82 ug/ml
RT: 7.860 min Scan# 1126
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion: 55 Resp: 50805

Ion	Ratio	Lower	Upper
55	100		
85	43.8	19.8	29.6#
113	47.4	29.6	44.4#

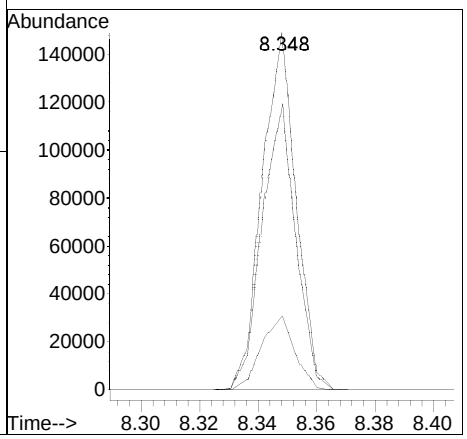


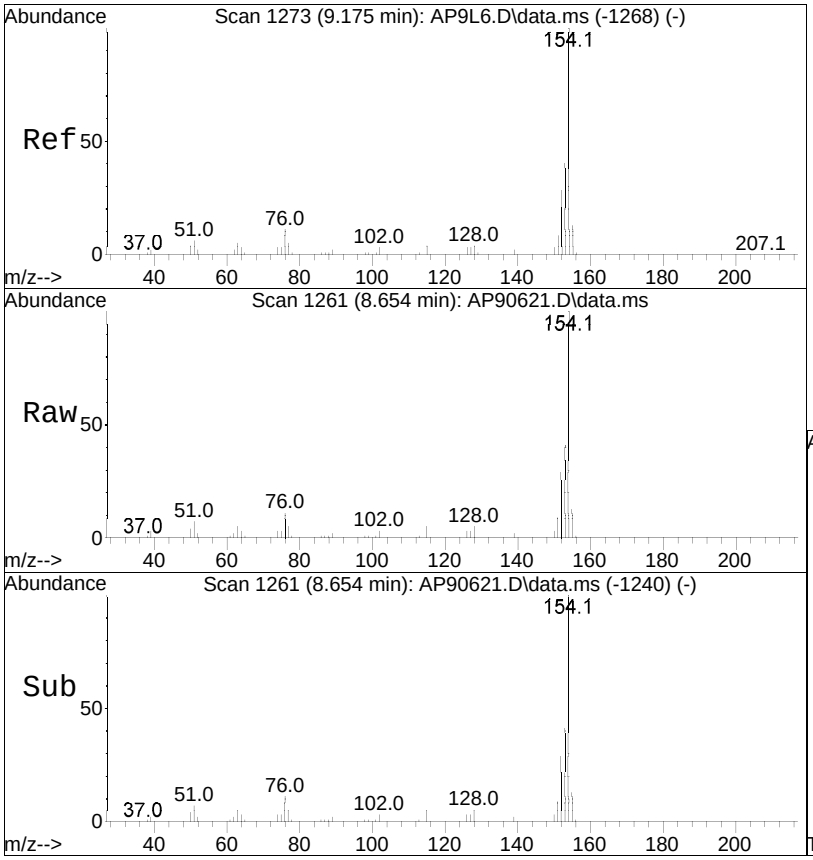


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.09 ug/ml
RT: 8.348 min Scan# 1209
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:216 Resp: 119599

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.7	95.5
179	20.5	19.0	28.6

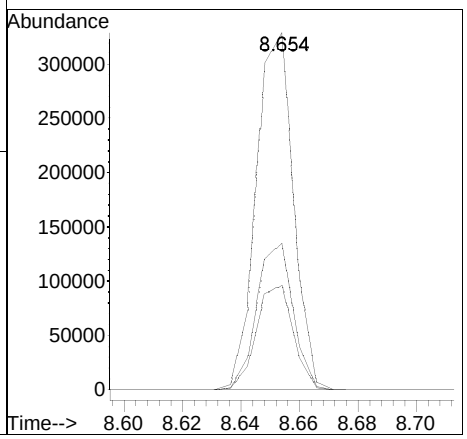


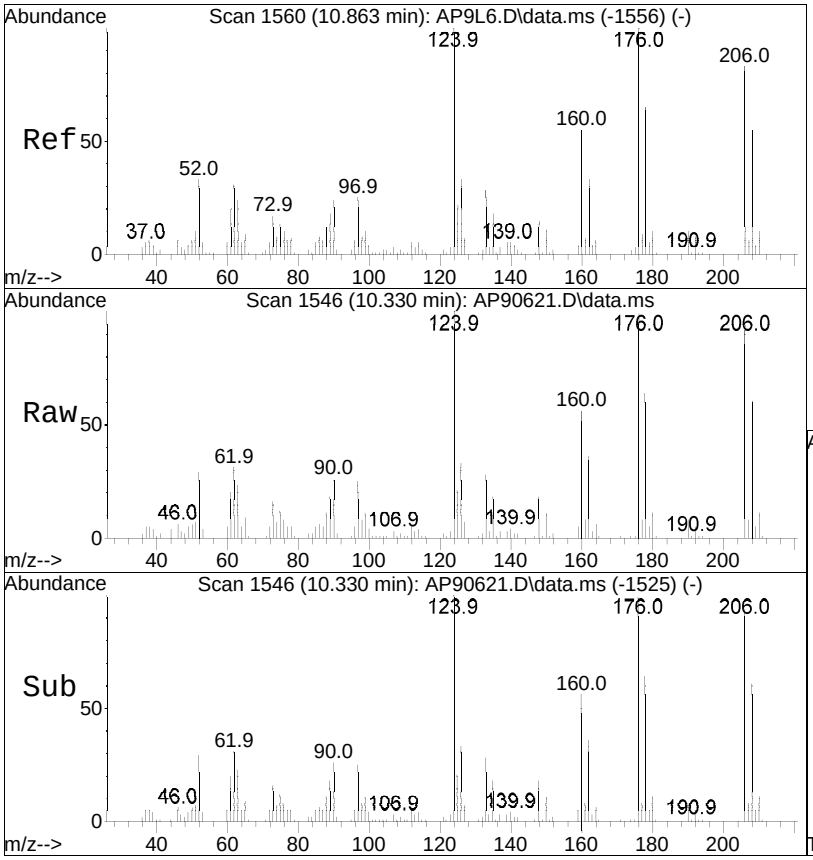


#61
Biphenyl
Concen: 5.31 ug/ml
RT: 8.654 min Scan# 1261
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:154 Resp: 288696

Ion	Ratio	Lower	Upper
154	100		
153	40.4	32.3	48.5
152	29.3	22.5	33.7

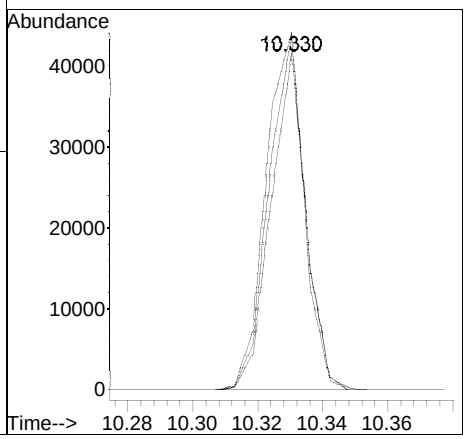


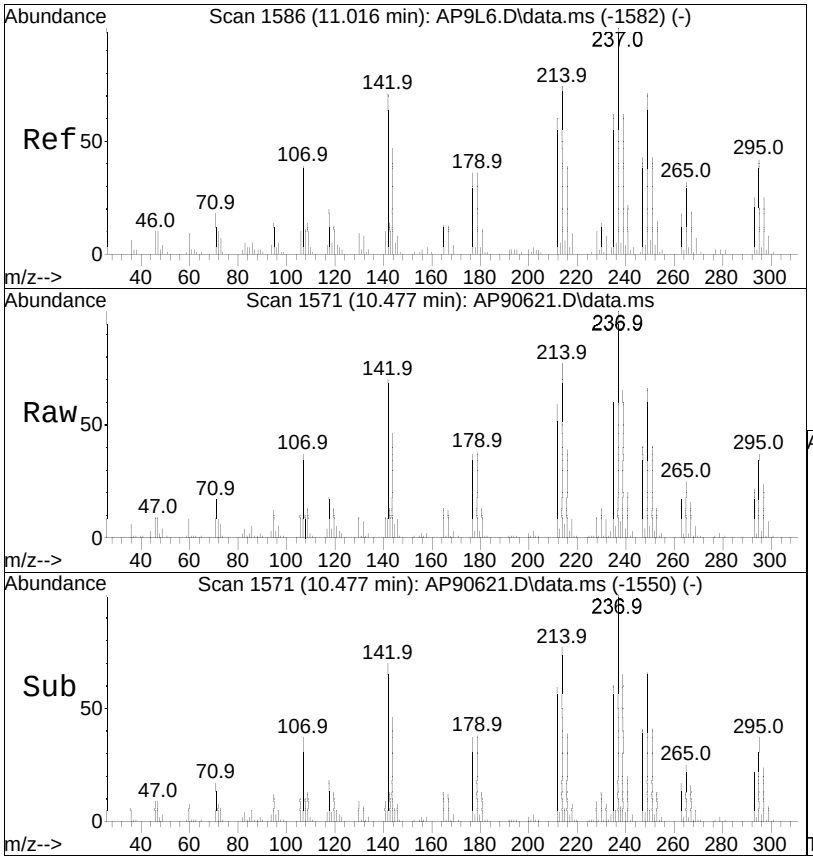


#83
Dichloran
Concen: 6.18 ug/ml
RT: 10.330 min Scan# 1546
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:206 Resp: 30813

Ion	Ratio	Lower	Upper
206	100		
176	109.4	104.6	157.0
124	115.4	130.5	195.7#

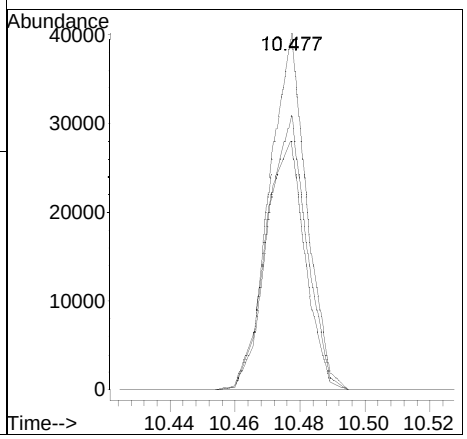


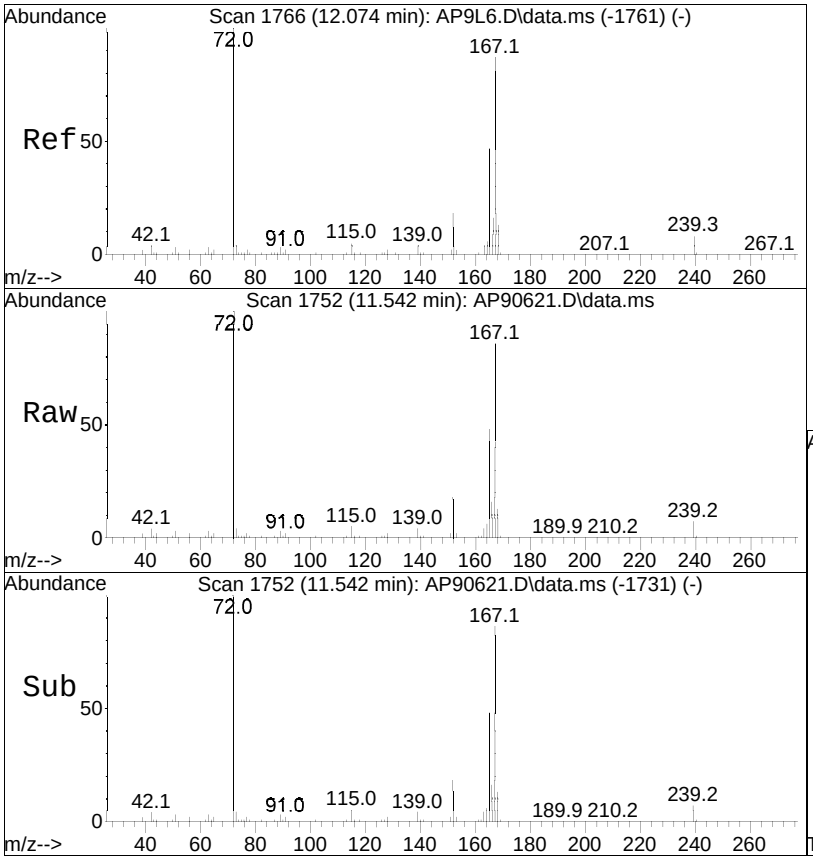


#84
Pentachloronitrobenzene
Concen: 5.86 ug/ml
RT: 10.477 min Scan# 1571
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:237 Resp: 31833

Ion	Ratio	Lower	Upper
237	100		
142	75.6	77.0	115.4#
214	80.4	58.2	87.4

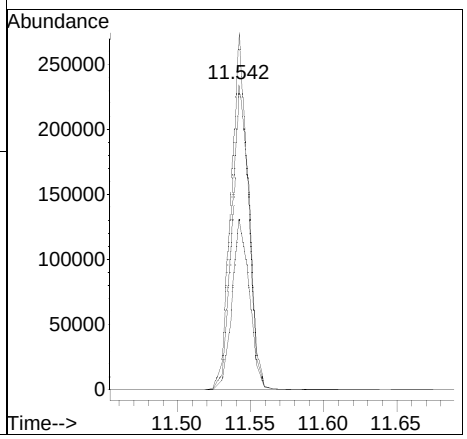




#98
Diphenamid
Concen: 5.68 ug/ml
RT: 11.542 min Scan# 1752
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2024 3:51 pm

Tgt Ion:167 Resp: 192032

Ion	Ratio	Lower	Upper
167	100		
72	112.8	109.7	164.5
165	56.2	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240621RVT\	QMethod	: FS240602SV107RVT.m
Data File	: AP90621.D	Operator	: SV107:cmm
Date Inj'd	: 6/21/2024 3:51 pm	Instrument	: SV107
Sample	: WG1937738-4,32,,AP9 10776	Quant Date	: 6/21/2024 4:34 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240621RVT\
Data File : ADP0621.D
Acq On : 21 Jun 2024 4:17 pm
Operator : SV107:cmm
Sample : WG1937738-5,32,,ADP 10751 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 21 16:59:55 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 17:00:26 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	124	0.00
33	T	n-Decane		1.447	1.457	-0.7	135	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	123	0.00
86	T	Atrazine		0.347	0.363	-4.6	125	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	121	0.00
100	T	n-Octadecane		0.393	0.428	-8.9	130	0.00
101	T	Parathion	*	5.000	5.328	-6.6	147	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.588	15.5	106	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : ADP0621.D
Acq On : 21 Jun 2024 4:17 pm
Operator : SV107:cmm
Sample : WG1937738-5,32,,ADP 10751 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 21 16:59:55 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 17:00:26 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	5.925	152	60062	4.000	ug/ml	0.00
85)	IS3_Acenaphthene-d10	9.189	164	133240	4.000	ug/ml	0.00
99)	IS3_Phenanthrene-d10	10.619	188	282406	4.000	ug/ml	0.00
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	n-Decane	5.837	57	109387	5.034	ug/ml#	43
86)	Atrazine	10.419	200	60393	5.223	ug/ml	95
100)	n-Octadecane	10.636	57	151159	5.450	ug/ml#	1
101)	Parathion	11.425	109	26396	5.328	ug/ml	95
102)	3,3'-Dimethylbenzidine	12.677	212	207432	4.221	ug/ml	99

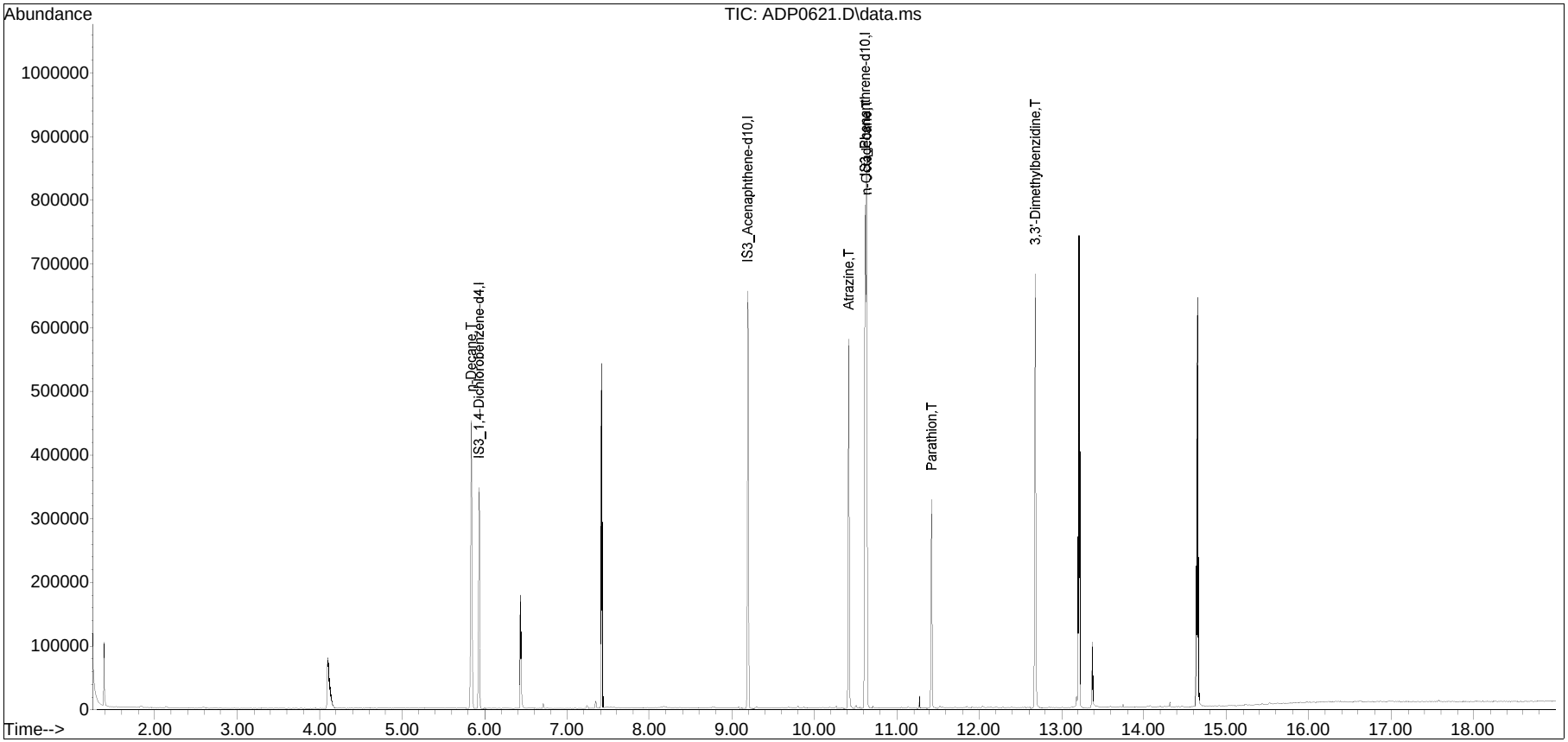
(#) = qualifier out of range (m) = manual integration (+) = signals summed

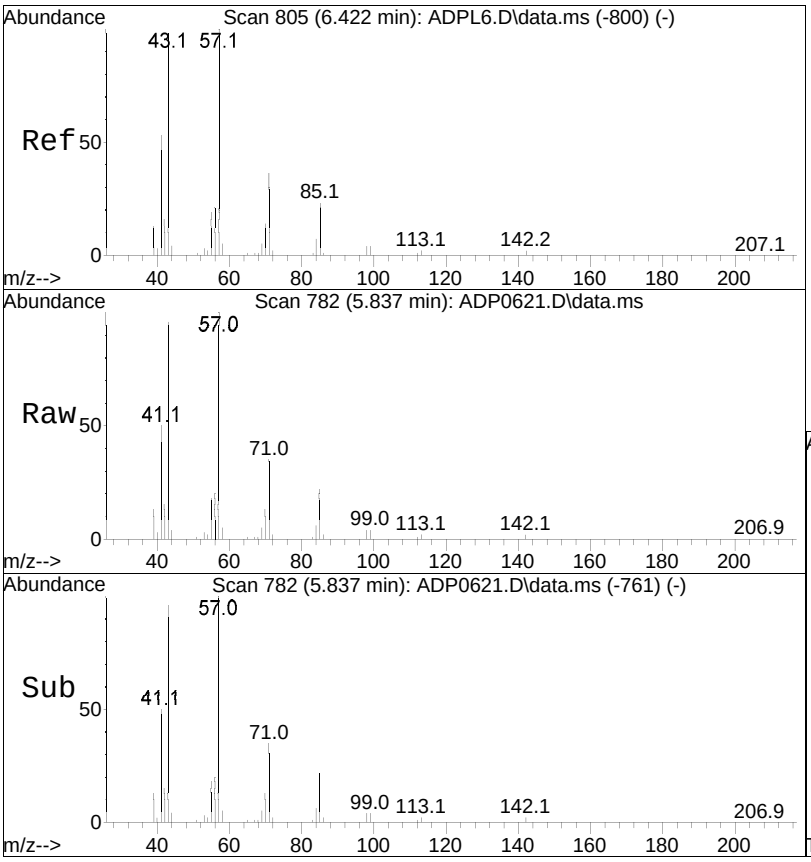
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240621RVT\
Data File : ADP0621.D
Acq On : 21 Jun 2024 4:17 pm
Operator : SV107:cmm
Sample : WG1937738-5,32,,ADP 10751 HNY0619A
Misc : WG1937738,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 21 16:59:55 2024
Quant Method : I:\8270\sv107\240621RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 17:00:26 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

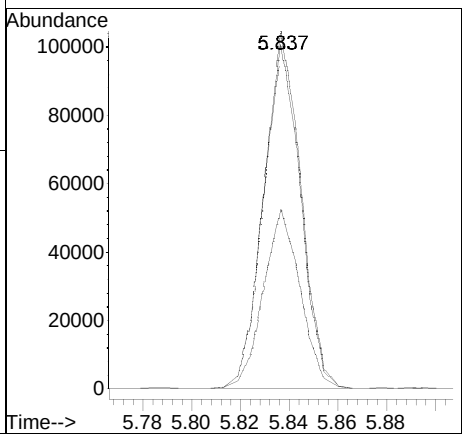


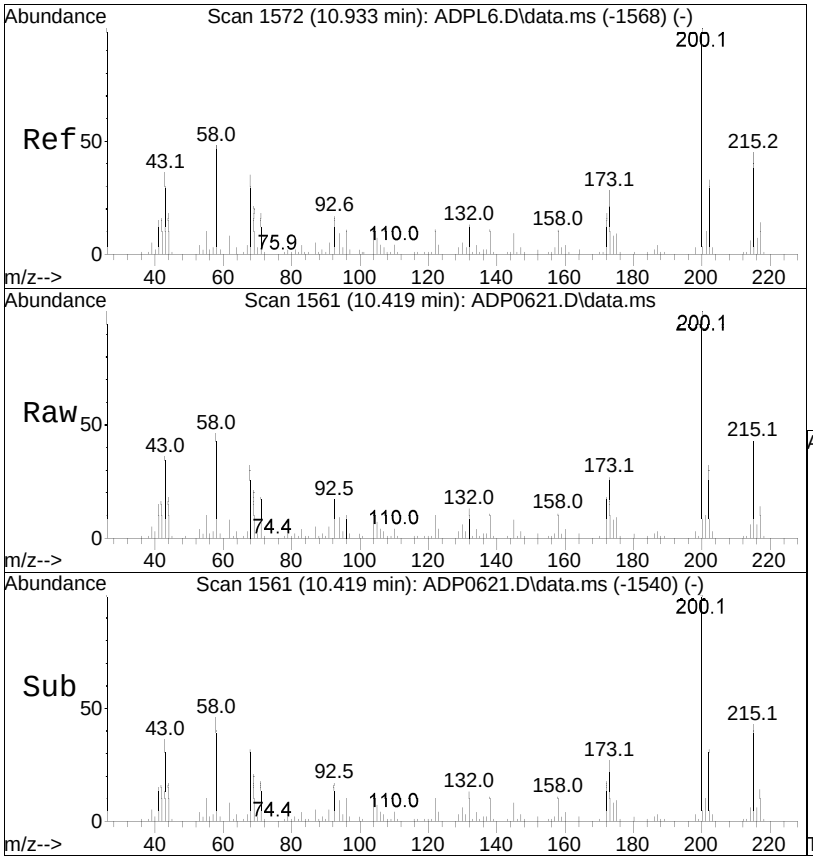


#33
n-Decane
Concen: 5.03 ug/ml
RT: 5.837 min Scan# 782
Delta R.T. 0.000 min
Lab File: ADP0621.D
Acq: 21 Jun 2024 4:17 pm

Tgt Ion: 57 Resp: 109387

Ion	Ratio	Lower	Upper
57	100		
43	96.0	0.2	0.2#
41	50.1	0.2	0.2#

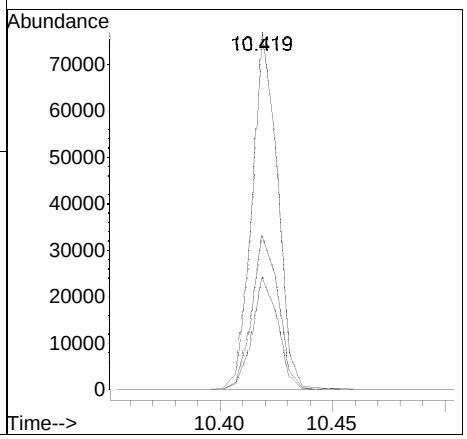


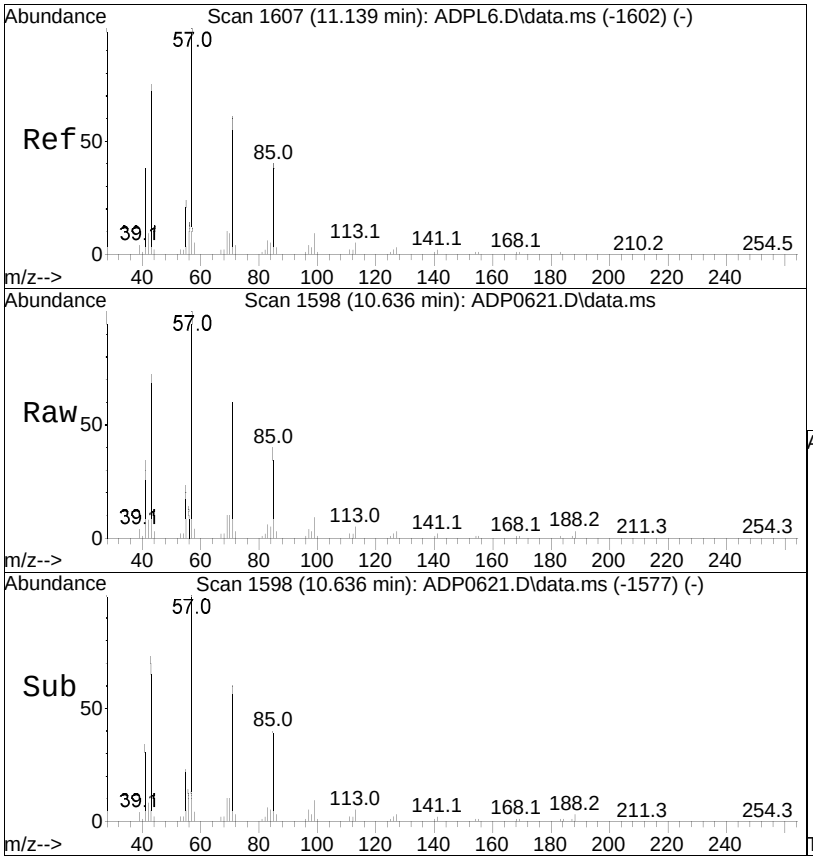


#86
Atrazine
Concen: 5.22 ug/ml
RT: 10.419 min Scan# 1561
Delta R.T. 0.000 min
Lab File: ADP0621.D
Acq: 21 Jun 2024 4:17 pm

Tgt Ion:200 Resp: 60393

Ion	Ratio	Lower	Upper
200	100		
202	31.7	25.8	38.6
215	44.6	40.2	60.4

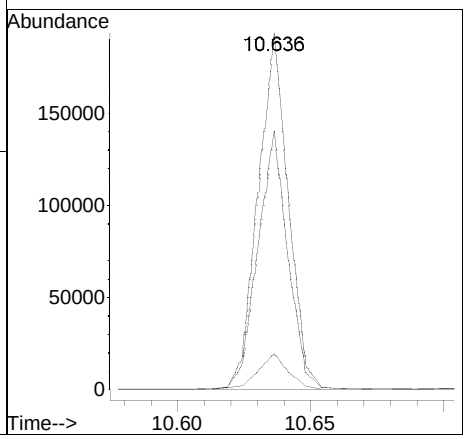


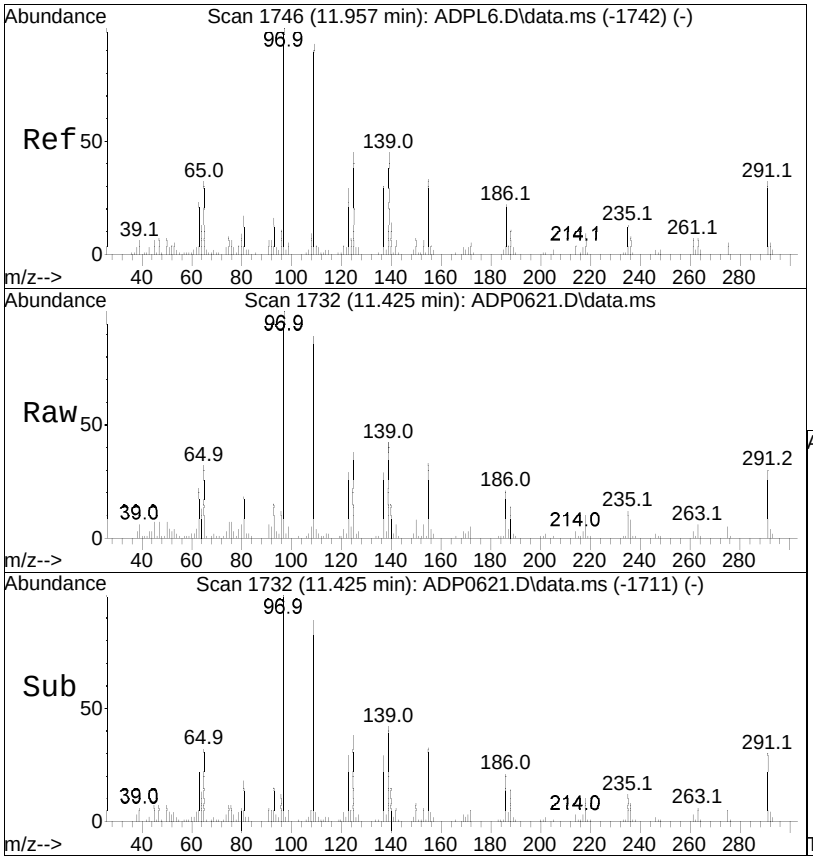


#100
n-Octadecane
Concen: 5.45 ug/ml
RT: 10.636 min Scan# 1598
Delta R.T. 0.000 min
Lab File: ADP0621.D
Acq: 21 Jun 2024 4:17 pm

Tgt Ion: 57 Resp: 151159

Ion	Ratio	Lower	Upper
57	100		
43	71.9	9.0	13.6#
70	10.2	0.2	0.2#

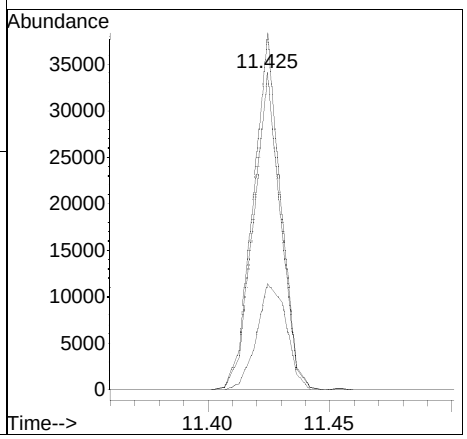


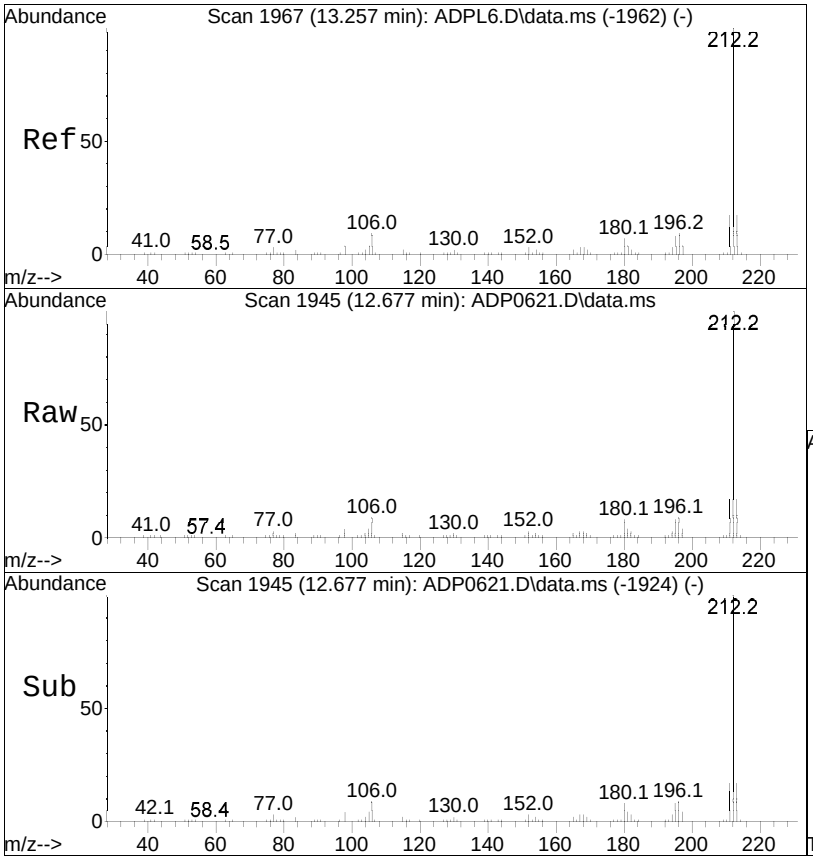


#101
Parathion
Concen: 5.33 ug/ml
RT: 11.425 min Scan# 1732
Delta R.T. 0.000 min
Lab File: ADP0621.D
Acq: 21 Jun 2024 4:17 pm

Tgt Ion:109 Resp: 26396

Ion	Ratio	Lower	Upper
109	100		
97	112.8	87.4	131.2
291	36.7	34.2	51.2

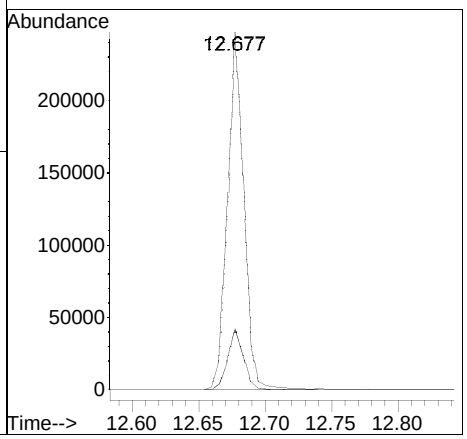




#102
3,3'-Dimethylbenzidine
Concen: 4.22 ug/ml
RT: 12.677 min Scan# 1945
Delta R.T. 0.000 min
Lab File: ADP0621.D
Acq: 21 Jun 2024 4:17 pm

Tgt Ion:212 Resp: 207432

Ion	Ratio	Lower	Upper
212	100		
211	16.9	12.9	19.3
213	16.8	13.2	19.8



Manual Integration Report

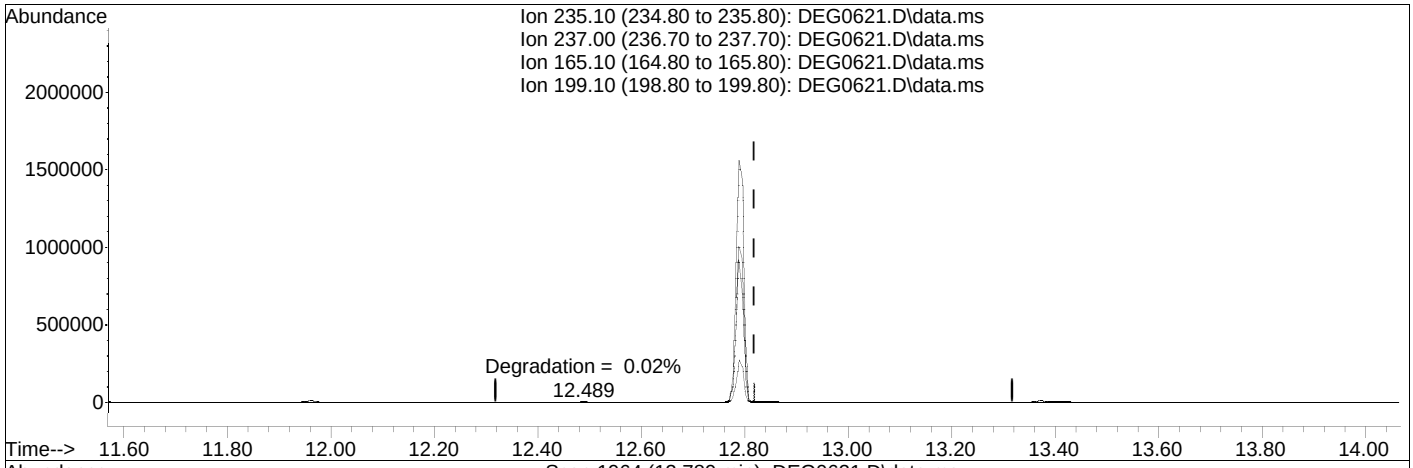
Data Path	: I:\8270\SV107\240621RVT\	QMethod	: FS240602SV107RVT.m
Data File	: ADP0621.D	Operator	: SV107:cmm
Date Inj'd	: 6/21/2024 4:17 pm	Instrument	: SV107
Sample	: WG1937738-5,32,,ADP 10751	Quant Date	: 6/21/2024 5:00 pm

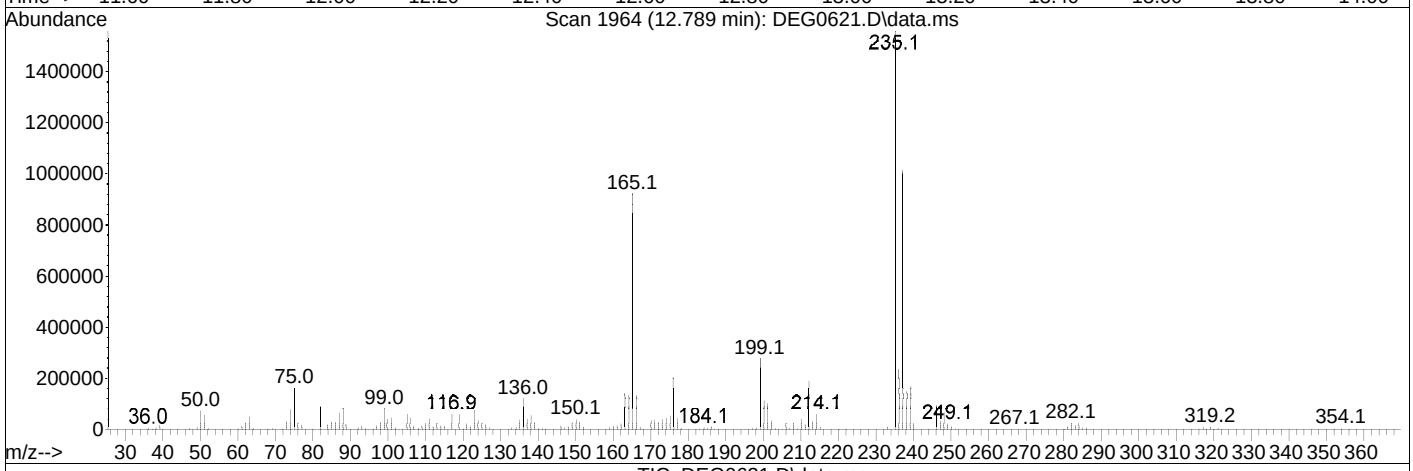
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240621RVT\
Data File : DEG0621.D
Acq On : 21 Jun 2024 3:00 pm
Operator : SV107:cmm
Sample : WG1937738-2,32,,Degdftpp Lot # 10848
Misc : WG1937738,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 21 15:21:39 2024
Quant Method : I:\8270\SV107\240621RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 01:55:25 2024
Response via : Initial Calibration





TIC: DEG0621.D\data.ms

(6) DDT (T)

12.789min (-0.029) 248.46

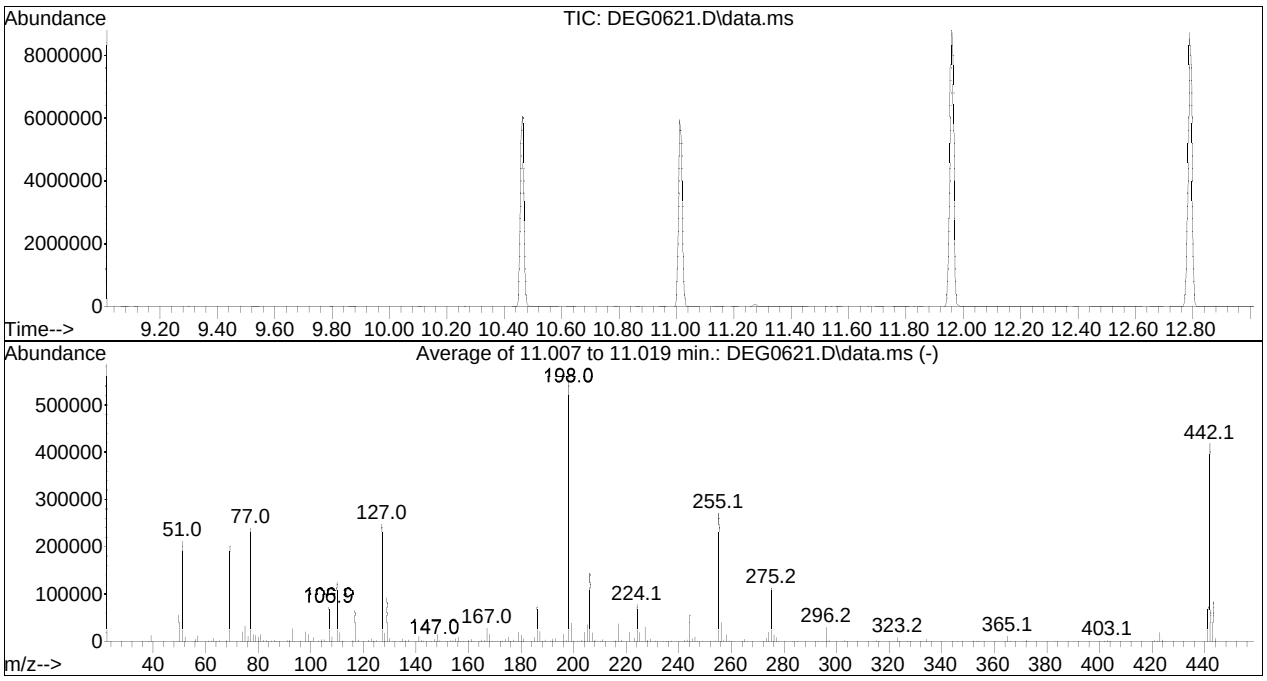
response 1514522

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.69
165.10	55.40	56.18
199.10	16.20	16.93

Data Path : I:\8270\SV107\240621RVT\
Data File : DEG0621.D
Acq On : 21 Jun 2024 3:00 pm
Operator : SV107:HNY
Sample : WG1937738-1,32,,Degdftpp Lot # 10848
Misc : WG1937738,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240621RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Jun 21 13:22:12 2024



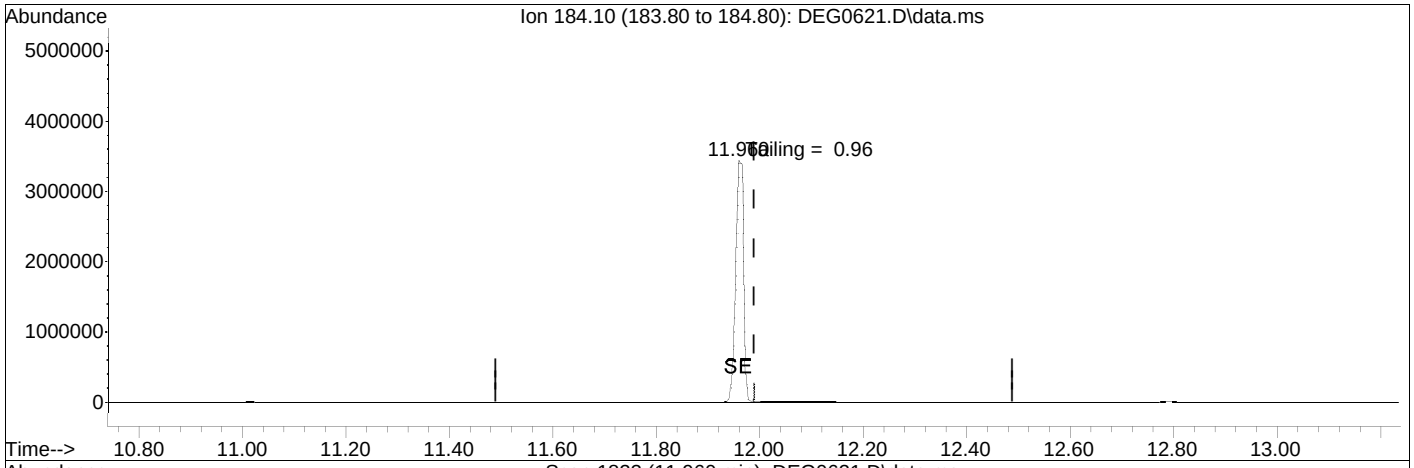
Spectrum Information: Average of 11.007 to 11.019 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.9	211264	PASS
68	69	0.00	2	1.6	3193	PASS
69	69	100	100	100.0	202261	PASS
70	69	0.00	2	0.5	1028	PASS
127	198	10	80	44.4	247787	PASS
197	198	0.00	2	0.7	3873	PASS
198	198	100	100	100.0	557717	PASS
199	198	5	9	6.9	38381	PASS
275	198	10	60	20.1	112064	PASS
365	198	1	100	2.2	12213	PASS
441	442	0.01	24	17.7	73949	PASS
442	198	50	100	75.1	418581	PASS
443	442	15	24	20.2	84488	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240621RVT\
Data File : DEG0621.D
Acq On : 21 Jun 2024 3:00 pm
Operator : SV107:cmm
Sample : WG1937738-6,32,,Degdftpp Lot # 10848
Misc : WG1937738,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 21 15:21:39 2024
Quant Method : I:\8270\SV107\240621RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 01:55:25 2024
Response via : Initial Calibration



TIC: DEG0621.D\data.ms

(3) Benzidine (T)

11.960min (-0.029) 336.17

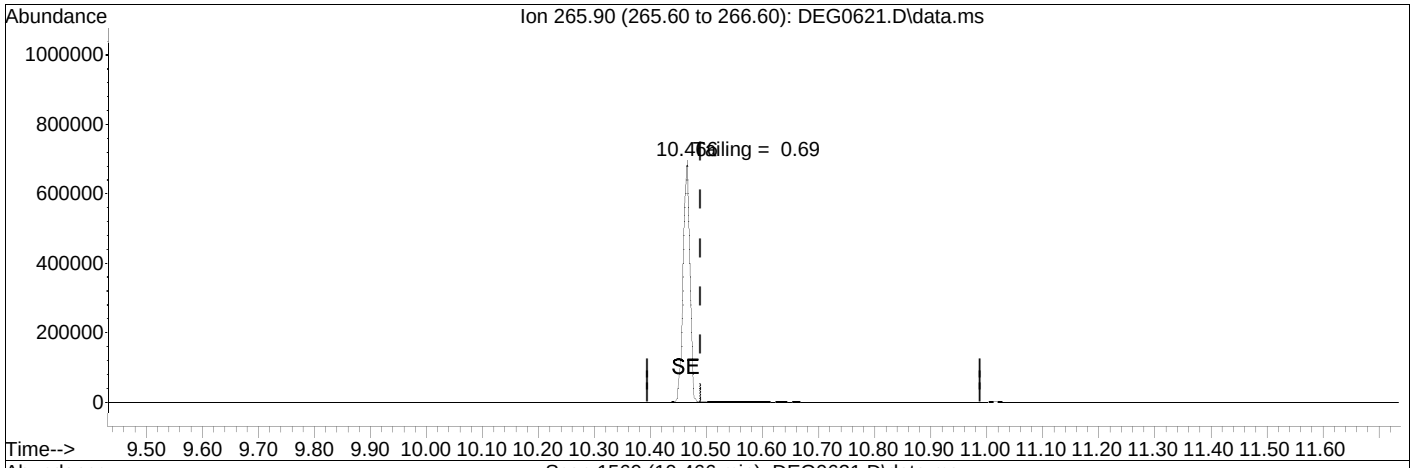
response 3422190

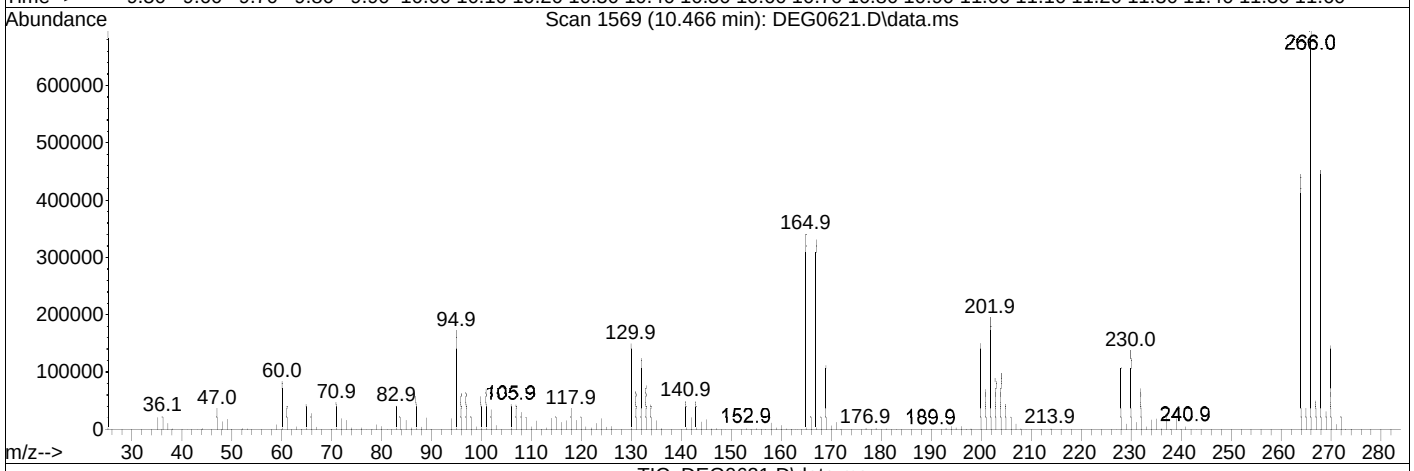
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240621RVT\
Data File : DEG0621.D
Acq On : 21 Jun 2024 3:00 pm
Operator : SV107:cmm
Sample : WG1937738-7,32,,Degdftpp Lot # 10848
Misc : WG1937738,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 21 15:21:39 2024
Quant Method : I:\8270\SV107\240621RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 01:55:25 2024
Response via : Initial Calibration





TIC: DEG0621.D\data.ms

(1) Pentachlorophenol (T)

10.466min (-0.023) 260.99

response 548181

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 21:40:47 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.016	152	59482	4.000	ug/ml		0.00
Standard Area 1 = 64596			Recovery = 92.08%				
27) IS2_1,4-Dichlorobenzen...	6.016	152	59482	4.000	ug/ml		0.00
Standard Area 3 = 62418			Recovery = 95.30%				
32) IS3_1,4-Dichlorobenzen...	6.016	152	59482	4.000	ug/ml		0.00
Standard Area 2 = 57965			Recovery = 102.62%				
34) IS1_Naphthalene-d8	7.492	136	218998	4.000	ug/ml		0.00
Standard Area 1 = 242090			Recovery = 90.46%				
54) IS2_Naphthalene-d8	7.492	136	218998	4.000	ug/ml		0.00
Standard Area 3 = 232012			Recovery = 94.39%				
62) IS1_Acenaphthene-d10	9.263	164	128173	4.000	ug/ml		0.00
Standard Area 1 = 156189			Recovery = 82.06%				
82) IS2_Acenaphthene-d10	9.263	164	128173	4.000	ug/ml		0.00
Standard Area 3 = 146718			Recovery = 87.36%				
85) IS3_Acenaphthene-d10	9.263	164	128173	4.000	ug/ml		0.00
Standard Area 2 = 132297			Recovery = 96.88%				
87) IS1_Phenanthrene-d10	10.698	188	276748	4.000	ug/ml		0.00
Standard Area 1 = 313744			Recovery = 88.21%				
99) IS3_Phenanthrene-d10	10.698	188	276748	4.000	ug/ml	#	0.00
Standard Area 2 = 294448			Recovery = 93.99%				
103) IS1_Chrysene-d12	13.304	240	213524	4.000	ug/ml		0.00
Standard Area 1 = 264835			Recovery = 80.63%				
112) IS1_Perylene-d12	14.751	264	215115	4.000	ug/ml		0.00
Standard Area 1 = 258064			Recovery = 83.36%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.722	112	5009	0.315	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 15.75%				
7) Phenol-d6	5.646	99	7514	0.382	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 19.10%				
19) Nitrobenzene-d5	6.710	82	11380	0.657	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.70%				
45) 2-Fluorobiphenyl	8.634	172	28858	0.609	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.90%				
78) 2,4,6-Tribromophenol	10.033	330	2838	0.519	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.95%				

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 21:40:47 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.280	244	38499	0.636	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 63.60%

Target Compounds			Qvalue
6) 2-Chlorophenol	0.000	0	N.D.
8) Phenol	0.000	0	N.D.
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.
15) 2-Methylphenol	0.000	0	N.D.
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.
20) Nitrobenzene	0.000	0	N.D.
21) Isophorone	0.000	0	N.D.
22) 2-Nitrophenol	0.000	0	N.D.
23) 2,4-Dimethylphenol	0.000	0	N.D.
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.
25) 2,4-Dichlorophenol	0.000	0	N.D.
28) Benzaldehyde	0.000	0	N.D.
29) Acetophenone	0.000	0	N.D.
37) 4-Chloroaniline	0.000	0	N.D.
39) p-Chloro-m-cresol	0.000	0	N.D.
42) Hexachlorocyclopentadiene	0.000	0	N.D.
43) 2,4,6-Trichlorophenol	0.000	0	N.D.
44) 2,4,5-Trichlorophenol	0.000	0	N.D.
47) 2-Nitroaniline	0.000	0	N.D.
50) Dimethyl phthalate	0.000	0	N.D.
52) 2,6-Dinitrotoluene	0.000	0	N.D.
59) Caprolactam	0.000	0	N.D.
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.
61) Biphenyl	0.000	0	N.D.
63) 3-Nitroaniline	0.000	0	N.D.
65) 2,4-Dinitrophenol	0.000	0	N.D.
66) Dibenzofuran	0.000	0	N.D.
67) 2,4-Dinitrotoluene	0.000	0	N.D.
68) 4-Nitrophenol	0.000	0	N.D.
71) Diethyl phthalate	0.000	0	N.D.
73) 4-Chlorophenyl phenyl ...	0.000	0	N.D.
74) 4-Nitroaniline	0.000	0	N.D.

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 21:40:47 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
108) Di-n-octylphthalate	0.000		0		N.D.	d

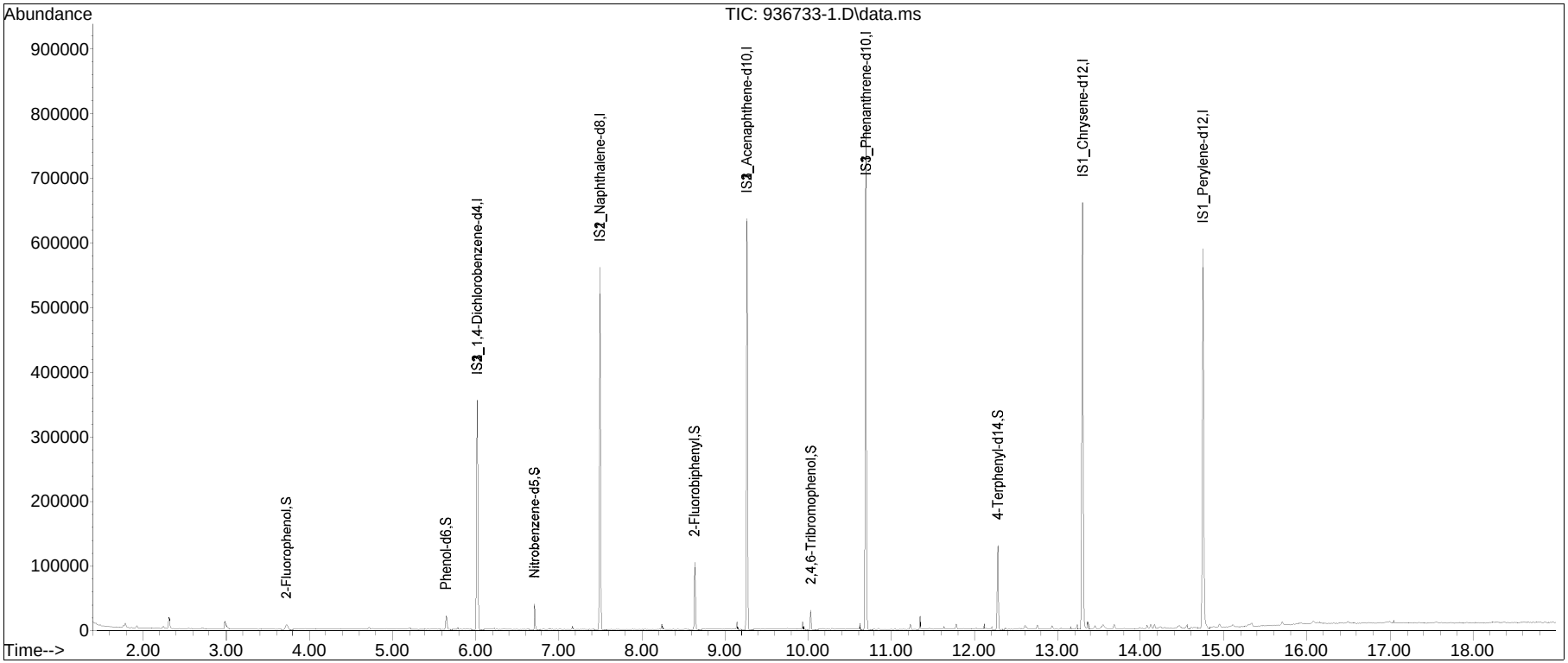
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 21:40:47 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90620.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240620RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 936733-1.D	Operator	: SV107:mrg
Date Inj'd	: 6/20/2024 2:02 pm	Instrument	: SV107
Sample	: WG1936733-1,32,,HNY	Quant Date	: 6/20/2024 2:56 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 936733-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.922	88	91	98	rVB2	3823	4586	0.69%	0.116%
2	2.246	141	146	153	rVV4	3450	4394	0.66%	0.111%
3	2.310	154	157	165	rVB	17146	23805	3.59%	0.601%
4	2.540	195	196	202	rBV4	1146	1940	0.29%	0.049%
5	2.716	220	226	230	rBV5	2031	3444	0.52%	0.087%
6	2.852	245	249	254	rVB5	542	1151	0.17%	0.029%
7	2.975	268	270	287	rBV	11926	24053	3.63%	0.607%
8	3.652	381	385	389	rVV3	844	1172	0.18%	0.030%
9	3.722	391	397	405	rVV3	8165	16375	2.47%	0.413%
10	3.946	432	435	440	rVB4	713	993	0.15%	0.025%
11	4.199	477	478	486	rVB3	614	894	0.14%	0.023%
12	4.381	501	509	510	rVB4	821	1521	0.23%	0.038%
13	4.399	510	512	516	rBV4	542	997	0.15%	0.025%
14	4.481	523	526	531	rVB4	509	975	0.15%	0.025%
15	4.716	561	566	572	rBV3	2499	4080	0.62%	0.103%
16	5.216	643	651	654	rBV6	1539	3656	0.55%	0.092%
17	5.510	699	701	707	rVB4	826	970	0.15%	0.024%
18	5.646	719	724	730	rBV	21390	22604	3.41%	0.570%
19	5.781	744	747	751	rVB2	2703	2933	0.44%	0.074%
20	5.940	771	774	780	rVV3	470	938	0.14%	0.024%
21	6.016	781	787	793	rVV	355150	356349	53.82%	8.990%
22	6.222	818	822	825	rBV5	1937	1890	0.29%	0.048%
23	6.357	837	845	847	rBV2	774	1231	0.19%	0.031%
24	6.710	900	905	911	rVB	39996	35136	5.31%	0.886%
25	6.834	921	926	931	rVB4	556	1009	0.15%	0.025%
26	6.898	931	937	941	rBV4	1816	1796	0.27%	0.045%
27	7.010	952	956	960	rBV4	708	1369	0.21%	0.035%
28	7.157	976	981	989	rVB2	4918	4840	0.73%	0.122%

LSC Area Percent Report

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

29	7.416	1020	1025	1028	rVV2	1350	1486	0.22%	0.037%
30	7.492	1032	1038	1043	rBV	561133	452638	68.36%	11.419%
31	7.634	1057	1062	1068	rBV4	694	987	0.15%	0.025%
32	7.681	1068	1070	1075	rVV4	490	881	0.13%	0.022%
33	8.234	1161	1164	1173	rVB	8036	8914	1.35%	0.225%
34	8.381	1186	1189	1193	rBV2	739	1144	0.17%	0.029%
35	8.634	1227	1232	1240	rVB	104283	82243	12.42%	2.075%
36	8.845	1263	1268	1275	rBV4	576	1476	0.22%	0.037%
37	9.145	1314	1319	1323	rVV	10905	10900	1.65%	0.275%
38	9.263	1334	1339	1345	rBV	636555	556928	84.11%	14.050%
39	9.392	1356	1361	1365	rVV3	662	1260	0.19%	0.032%
40	9.757	1417	1423	1427	rVB4	1473	1902	0.29%	0.048%
41	9.869	1439	1442	1447	rVV2	945	1060	0.16%	0.027%
42	9.933	1447	1453	1459	rVV	11208	10597	1.60%	0.267%
43	10.033	1463	1470	1477	rVV	30456	24544	3.71%	0.619%
44	10.175	1490	1494	1500	rVB4	1499	2246	0.34%	0.057%
45	10.281	1510	1512	1516	rBV	1568	2077	0.31%	0.052%
46	10.363	1519	1526	1527	rBV4	552	1121	0.17%	0.028%
47	10.522	1546	1553	1554	rVB3	783	1378	0.21%	0.035%
48	10.580	1556	1563	1565	rVV4	1099	1926	0.29%	0.049%
49	10.616	1565	1569	1574	rVV	8862	8177	1.23%	0.206%
50	10.698	1577	1583	1590	rVV	781156	662173	100.00%	16.705%
51	10.745	1590	1591	1595	rVV2	1020	974	0.15%	0.025%
52	10.792	1598	1599	1605	rVV3	782	1014	0.15%	0.026%
53	10.851	1605	1609	1614	rVV2	1773	2059	0.31%	0.052%
54	11.045	1639	1642	1645	rBV2	1355	1198	0.18%	0.030%
55	11.222	1669	1672	1676	rBV	7860	7494	1.13%	0.189%
56	11.345	1689	1693	1703	rBV2	19888	18853	2.85%	0.476%
57	11.463	1708	1713	1720	rVB2	1698	3205	0.48%	0.081%
58	11.633	1738	1742	1746	rBV5	4122	3194	0.48%	0.081%
59	11.775	1760	1766	1773	rVB	7582	8872	1.34%	0.224%
60	11.863	1779	1781	1784	rBV2	1058	898	0.14%	0.023%

LSC Area Percent Report

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

61	12.022	1803	1808	1813	rVB4	1494	2072	0.31%	0.052%
62	12.116	1820	1824	1827	rBV2	8002	7377	1.11%	0.186%
63	12.210	1833	1840	1843	rVB3	3519	4187	0.63%	0.106%
64	12.280	1845	1852	1856	rVV	130684	116641	17.61%	2.942%
65	12.322	1856	1859	1863	rVV3	1013	1587	0.24%	0.040%
66	12.369	1863	1867	1872	rVV4	1899	3179	0.48%	0.080%
67	12.539	1889	1896	1898	rBV4	1748	2221	0.34%	0.056%
68	12.604	1903	1907	1916	rVB3	5882	12101	1.83%	0.305%
69	12.757	1929	1933	1940	rVB	6354	7469	1.13%	0.188%
70	12.822	1940	1944	1947	rVB3	788	913	0.14%	0.023%
71	12.927	1957	1962	1968	rVB2	5300	7164	1.08%	0.181%
72	12.974	1968	1970	1976	rVB2	812	1141	0.17%	0.029%
73	13.039	1976	1981	1988	rBV3	2091	3430	0.52%	0.087%
74	13.151	1997	2000	2006	rVB	4073	2214	0.33%	0.056%
75	13.227	2006	2013	2017	rBV	7299	8497	1.28%	0.214%
76	13.263	2017	2019	2021	rVV2	1756	1809	0.27%	0.046%
77	13.304	2021	2026	2033	rVV	661204	633955	95.74%	15.993%
78	13.363	2033	2036	2046	rVB	13087	13403	2.02%	0.338%
79	13.457	2046	2052	2056	rBV2	5316	7210	1.09%	0.182%
80	13.551	2059	2068	2080	rVV5	6333	16845	2.54%	0.425%
81	13.686	2086	2091	2098	rBV	6853	9551	1.44%	0.241%
82	13.804	2107	2111	2116	rVB4	1167	1701	0.26%	0.043%
83	13.886	2122	2125	2130	rVB2	577	949	0.14%	0.024%
84	13.998	2141	2144	2148	rVV3	1530	1835	0.28%	0.046%
85	14.080	2153	2158	2162	rBV2	5616	6100	0.92%	0.154%
86	14.127	2162	2166	2169	rVV3	6306	7820	1.18%	0.197%
87	14.168	2169	2173	2177	rVV2	6276	6840	1.03%	0.173%
88	14.239	2179	2185	2189	rVV5	2919	5699	0.86%	0.144%
89	14.286	2189	2193	2196	rVB4	1907	2058	0.31%	0.052%
90	14.357	2202	2205	2209	rBV5	960	1441	0.22%	0.036%
91	14.457	2211	2222	2231	rVV5	4269	13297	2.01%	0.335%

LSC Area Percent Report

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 400 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270

92	14.551	2233	2238	2242	rVV3	5944	8171	1.23%	0.206%
93	14.604	2245	2247	2250	rVB3	1212	1194	0.18%	0.030%
94	14.751	2267	2272	2285	rBV	587851	599510	90.54%	15.124%
95	14.951	2302	2306	2313	rVB3	5263	7687	1.16%	0.194%
96	15.004	2313	2315	2317	rBV2	1058	1037	0.16%	0.026%
97	15.110	2327	2333	2346	rVB6	3869	10820	1.63%	0.273%
98	15.298	2361	2365	2367	rBV5	2676	3633	0.55%	0.092%
99	15.339	2369	2372	2376	rVB5	5104	6218	0.94%	0.157%
100	15.704	2430	2434	2441	rVB3	4423	6128	0.93%	0.155%

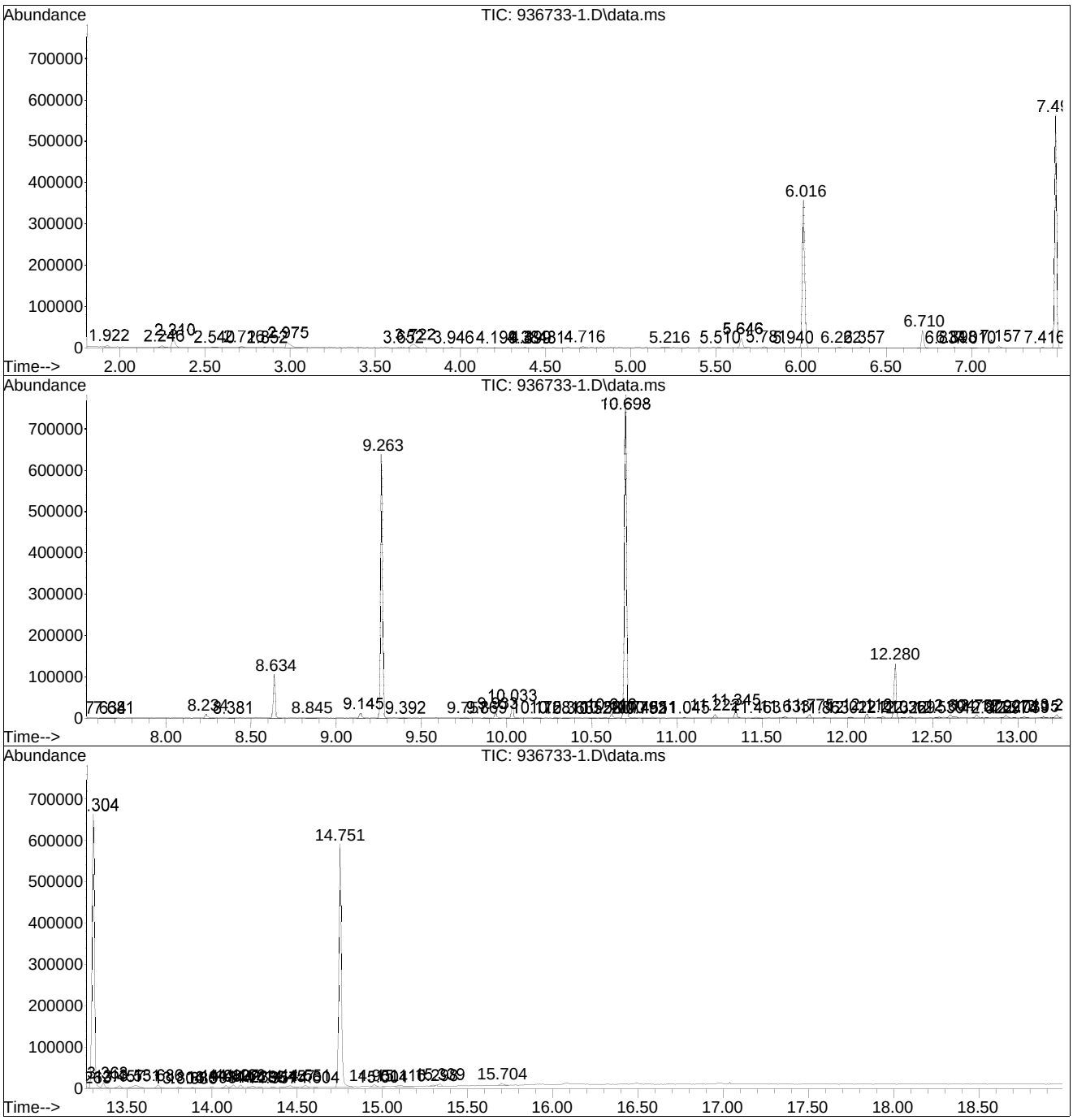
Sum of corrected areas: 3964024

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-1.D
Acq On : 20 Jun 2024 2:02 pm
Operator : SV107:mrg
Sample : WG1936733-1,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

						Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-1.D
Acq On : 21 Jun 2024 4:32 am
Operator : SV107:sz
Sample : WG1936908-1,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 11:41:42 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.954	152	64841	4.000	ug/ml	0.00
Standard Area 1 = 64707			Recovery = 100.21%			
27) IS2_1,4-Dichlorobenzen...	5.954	152	64841	4.000	ug/ml	0.00
Standard Area 3 = 64708			Recovery = 100.21%			
32) IS3_1,4-Dichlorobenzen...	5.954	152	64841	4.000	ug/ml	0.00
Standard Area 2 = 67896			Recovery = 95.50%			
34) IS1_Naphthalene-d8	7.442	136	236732	4.000	ug/ml	0.00
Standard Area 1 = 235755			Recovery = 100.41%			
54) IS2_Naphthalene-d8	7.442	136	236732	4.000	ug/ml	0.00
Standard Area 3 = 235329			Recovery = 100.60%			
62) IS1_Acenaphthene-d10	9.219	164	138468	4.000	ug/ml	0.00
Standard Area 1 = 141034			Recovery = 98.18%			
82) IS2_Acenaphthene-d10	9.219	164	138468	4.000	ug/ml	0.00
Standard Area 3 = 132909			Recovery = 104.18%			
85) IS3_Acenaphthene-d10	9.219	164	138468	4.000	ug/ml	0.00
Standard Area 2 = 134249			Recovery = 103.14%			
87) IS1_Phenanthrene-d10	10.648	188	280893	4.000	ug/ml	0.00
Standard Area 1 = 276864			Recovery = 101.46%			
99) IS3_Phenanthrene-d10	10.648	188	280893	4.000	ug/ml	0.00
Standard Area 2 = 271047			Recovery = 103.63%			
103) IS1_Chrysene-d12	13.248	240	214665	4.000	ug/ml	0.00
Standard Area 1 = 231677			Recovery = 92.66%			
112) IS1_Perylene-d12	14.689	264	215459	4.000	ug/ml	0.00
Standard Area 1 = 238143			Recovery = 90.47%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.590	112	14903	0.860	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 43.00%			
7) Phenol-d6	5.584	99	12889	0.602	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.10%			
19) Nitrobenzene-d5	6.660	82	13431	0.711	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.10%			
45) 2-Fluorobiphenyl	8.589	172	32342	0.631	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 63.10%			
78) 2,4,6-Tribromophenol	9.989	330	5009	0.848	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.40%			

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-1.D
Acq On : 21 Jun 2024 4:32 am
Operator : SV107:sz
Sample : WG1936908-1,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 11:41:42 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.230	244	38090	0.620	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 62.00%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
37) 4-Chloroaniline	0.000	0	N.D.	
39) p-Chloro-m-cresol	0.000	0	N.D.	
42) Hexachlorocyclopentadiene	0.000	0	N.D.	
43) 2,4,6-Trichlorophenol	0.000	0	N.D.	
44) 2,4,5-Trichlorophenol	0.000	0	N.D.	
47) 2-Nitroaniline	0.000	0	N.D.	
50) Dimethyl phthalate	0.000	0	N.D.	
52) 2,6-Dinitrotoluene	0.000	0	N.D.	
59) Caprolactam	0.000	0	N.D.	d
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
61) Biphenyl	0.000	0	N.D.	
63) 3-Nitroaniline	0.000	0	N.D.	
65) 2,4-Dinitrophenol	0.000	0	N.D.	
66) Dibenzofuran	0.000	0	N.D.	
67) 2,4-Dinitrotoluene	0.000	0	N.D.	
68) 4-Nitrophenol	0.000	0	N.D.	
71) Diethyl phthalate	0.000	0	N.D.	d
73) 4-Chlorophenyl phenyl ...	0.000	0	N.D.	
74) 4-Nitroaniline	0.000	0	N.D.	

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-1.D
Acq On : 21 Jun 2024 4:32 am
Operator : SV107:sz
Sample : WG1936908-1,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 11:41:42 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	11.301	149	5640	0.074	ug/ml#	93
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

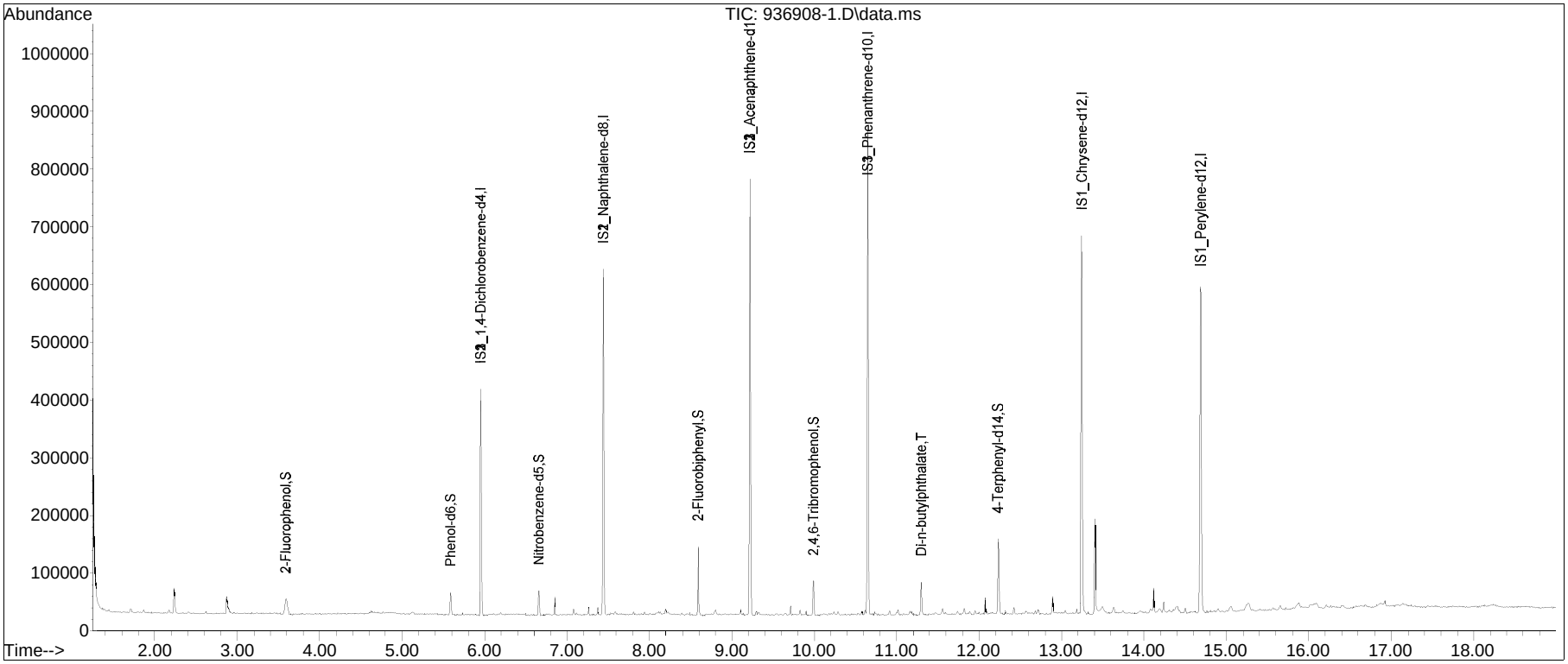
(#) = qualifier out of range (m) = manual integration (+) = signals summed

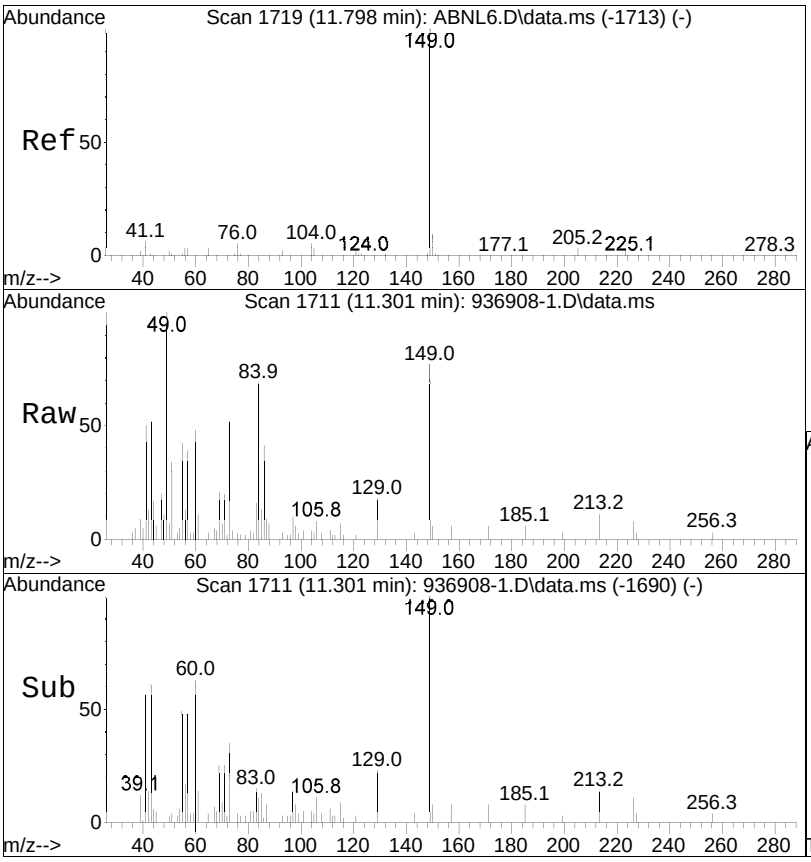
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-1.D
Acq On : 21 Jun 2024 4:32 am
Operator : SV107:sz
Sample : WG1936908-1,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 11:41:42 2024
Quant Method : I:\8270\SV107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP90620n.D•

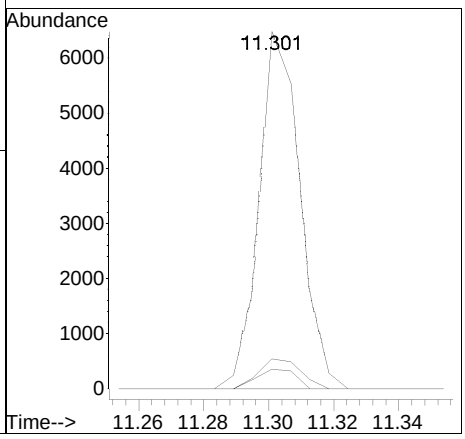




#91
Di-n-butylphthalate
Concen: 0.07 ug/ml
RT: 11.301 min Scan# 1711
Delta R.T. -0.000 min
Lab File: 936908-1.D
Acq: 21 Jun 2024 4:32 am

Tgt Ion:149 Resp: 5640

Ion	Ratio	Lower	Upper
149	100		
150	8.7	7.0	10.6
104	0.0	4.5	6.7#



Manual Integration Report

Data Path	: I:\8270\SV107\240620NRVT\	QMethod	: FS240602SV107RVT.m
Data File	: 936908-1.D	Operator	: SV107:sz
Date Inj'd	: 6/21/2024 4:32 am	Instrument	: SV107
Sample	: WG1936908-1,32,,ASK	Quant Date	: 6/21/2024 11:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-2.D
Acq On : 20 Jun 2024 2:28 pm
Operator : SV107:mrg
Sample : WG1936733-2,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:41:40 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	59133	4.000	ug/ml	0.00
Standard Area 1 = 64596			Recovery = 91.54%			
27) IS2_1,4-Dichlorobenzen...	6.016	152	59133	4.000	ug/ml	0.00
Standard Area 3 = 62418			Recovery = 94.74%			
32) IS3_1,4-Dichlorobenzen...	6.016	152	59133	4.000	ug/ml	0.00
Standard Area 2 = 57965			Recovery = 102.02%			
34) IS1_Naphthalene-d8	7.492	136	218767	4.000	ug/ml	0.00
Standard Area 1 = 242090			Recovery = 90.37%			
54) IS2_Naphthalene-d8	7.492	136	218767	4.000	ug/ml	0.00
Standard Area 3 = 232012			Recovery = 94.29%			
62) IS1_Acenaphthene-d10	9.269	164	134097	4.000	ug/ml	0.00
Standard Area 1 = 156189			Recovery = 85.86%			
82) IS2_Acenaphthene-d10	9.269	164	134097	4.000	ug/ml	0.00
Standard Area 3 = 146718			Recovery = 91.40%			
85) IS3_Acenaphthene-d10	9.269	164	134097	4.000	ug/ml	0.00
Standard Area 2 = 132297			Recovery = 101.36%			
87) IS1_Phenanthrene-d10	10.698	188	288161	4.000	ug/ml	0.00
Standard Area 1 = 313744			Recovery = 91.85%			
99) IS3_Phenanthrene-d10	10.698	188	288161	4.000	ug/ml	0.00
Standard Area 2 = 294448			Recovery = 97.86%			
103) IS1_Chrysene-d12	13.298	240	235434	4.000	ug/ml	0.00
Standard Area 1 = 264835			Recovery = 88.90%			
112) IS1_Perylene-d12	14.745	264	224788	4.000	ug/ml	0.00
Standard Area 1 = 258064			Recovery = 87.11%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.722	112	11260	0.712	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 35.60%			
7) Phenol-d6	5.645	99	12402	0.635	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.75%			
19) Nitrobenzene-d5	6.710	82	13298	0.772	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.20%			
45) 2-Fluorobiphenyl	8.633	172	33765	0.713	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.30%			
78) 2,4,6-Tribromophenol	10.033	330	7398	1.294	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 64.70%			

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-2.D
Acq On : 20 Jun 2024 2:28 pm
Operator : SV107:mrg
Sample : WG1936733-2,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:41:40 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.280	244	45578	0.723	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 72.30%

Target Compounds						Qvalue
6) 2-Chlorophenol	5.734	128	20575	1.181	ug/ml	96
8) Phenol	5.663	94	13721	0.645	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.440	45	35392	1.475	ug/ml#	57
15) 2-Methylphenol	6.440	108	17574	1.153	ug/ml	97
17) n-Nitrosodi-n-propylamine	6.592	70	18175	1.398	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.640	108	19653	1.226	ug/ml#	52
20) Nitrobenzene	6.734	77	25547	1.444	ug/ml	96
21) Isophorone	7.022	82	44244	1.295	ug/ml	96
22) 2-Nitrophenol	7.098	139	9416	1.195	ug/ml	94
23) 2,4-Dimethylphenol	7.222	107	20149	1.253	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.310	93	32304	1.449	ug/ml#	96
25) 2,4-Dichlorophenol	7.375	162	20287	1.255	ug/ml	94
28) Benzaldehyde	5.393	105	20100	1.328	ug/ml	97
29) Acetophenone	6.545	105	37323	1.426	ug/ml#	86
37) 4-Chloroaniline	7.610	65	9439	1.374	ug/ml	78
39) p-Chloro-m-cresol	8.157	107	19529	1.311	ug/ml	96
42) Hexachlorocyclopentadiene	8.428	237	9195	0.819	ug/ml	95
43) 2,4,6-Trichlorophenol	8.551	196	12109	0.935	ug/ml	98
44) 2,4,5-Trichlorophenol	8.575	196	14965	1.090	ug/ml	98
47) 2-Nitroaniline	8.839	138	12616	1.333	ug/ml	97
50) Dimethyl phthalate	9.057	163	70279	1.532	ug/ml#	98
52) 2,6-Dinitrotoluene	9.092	165	12529	1.502	ug/ml#	87
59) Caprolactam	7.928	55	3093	0.379	ug/ml#	78
60) 1,2,4,5-Tetrachloroben...	8.422	216	23956	1.090	ug/ml	97
61) Biphenyl	8.722	154	62332	1.227	ug/ml	99
63) 3-Nitroaniline	9.245	138	12854	1.478	ug/ml#	89
65) 2,4-Dinitrophenol	9.345	184	1340	1.184	ug/ml#	86
66) Dibenzofuran	9.469	168	79709	1.354	ug/ml	99
67) 2,4-Dinitrotoluene	9.480	165	15901	1.512	ug/ml#	88
68) 4-Nitrophenol	9.445	65	3225	0.435	ug/ml#	30
71) Diethyl phthalate	9.751	149	67972	1.558	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.828	204	29690	1.318	ug/ml	90
74) 4-Nitroaniline	9.833	138	12743	1.448	ug/ml#	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-2.D
Acq On : 20 Jun 2024 2:28 pm
Operator : SV107:mrg
Sample : WG1936733-2,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:41:40 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4,6-Dinitro-o-cresol	9.869	198	4099	1.082	ug/ml#	73
76) NDPA/DPA	9.945	169	55384	1.460	ug/ml	94
79) 4-Bromophenyl phenyl e...	10.292	248	16529	1.310	ug/ml#	89
86) Atrazine	10.492	200	18151	1.560	ug/ml	94
90) Carbazole	10.939	167	93814	1.403	ug/ml	98
91) Di-n-butylphthalate	11.345	149	102266	1.304	ug/ml	98
96) Butyl benzyl phthalate	12.804	149	40872	1.409	ug/ml	95
105) 3,3'-Dichlorobenzidine	13.304	252	37432	1.479	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.445	149	56456	1.254	ug/ml#	94
108) Di-n-octylphthalate	14.116	149	71264	1.213	ug/ml#	75

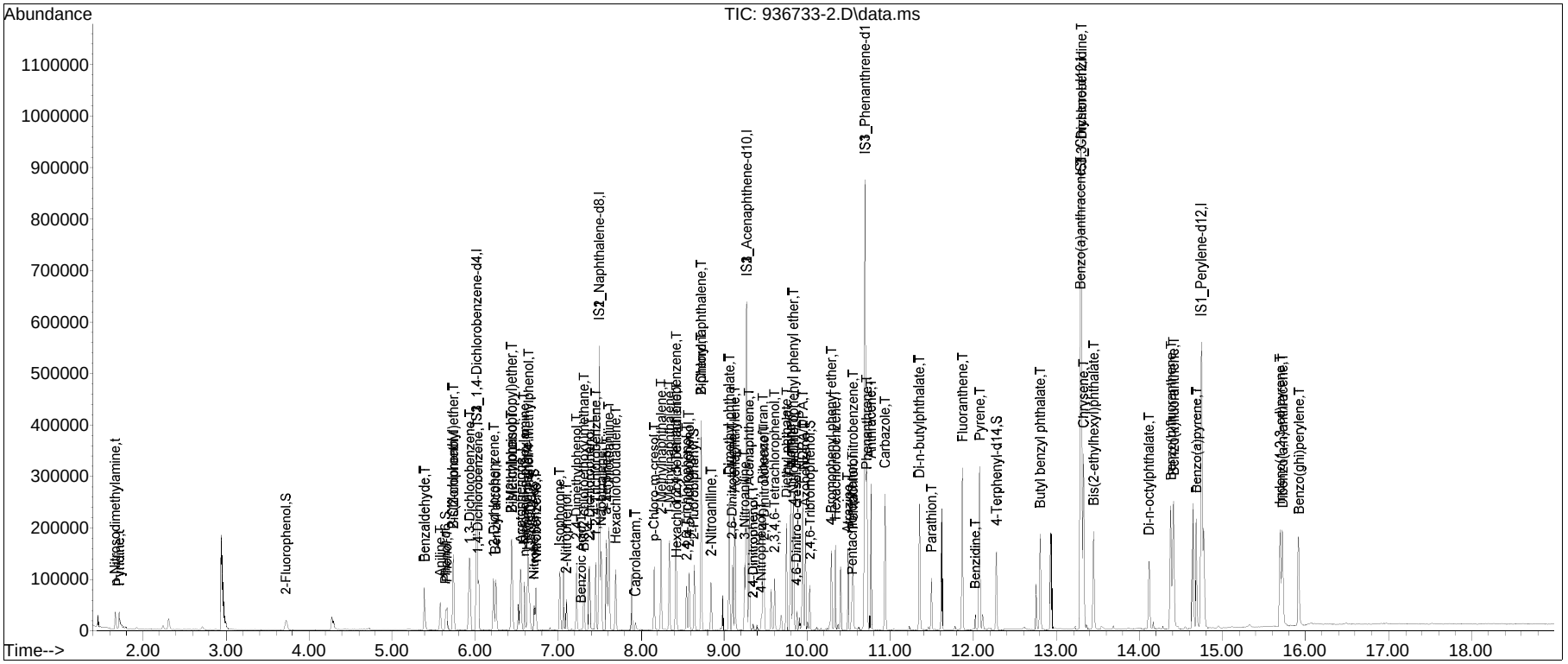
(#) = qualifier out of range (m) = manual integration (+) = signals summed

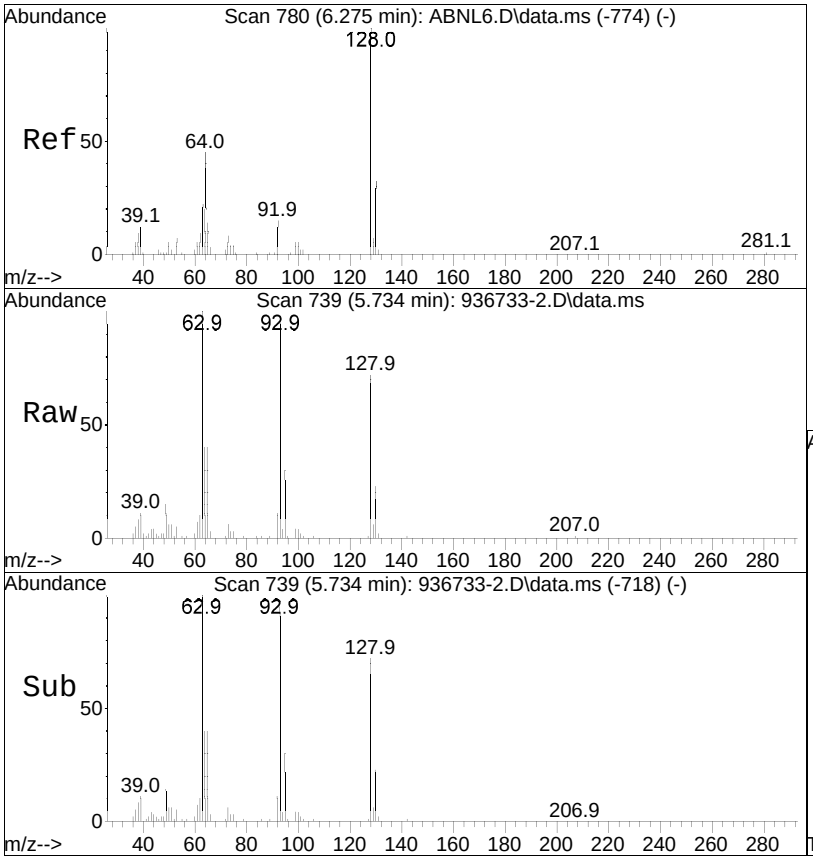
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-2.D
Acq On : 20 Jun 2024 2:28 pm
Operator : SV107:mrg
Sample : WG1936733-2,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:41:40 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 14:56:39 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90620.D•

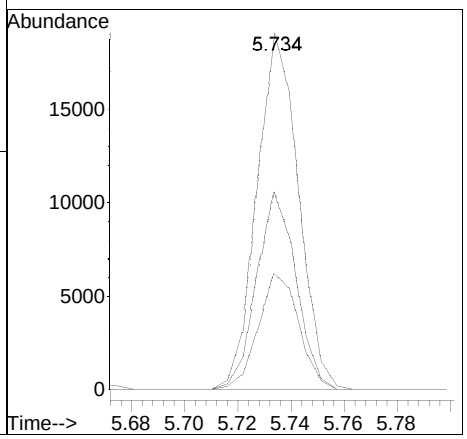


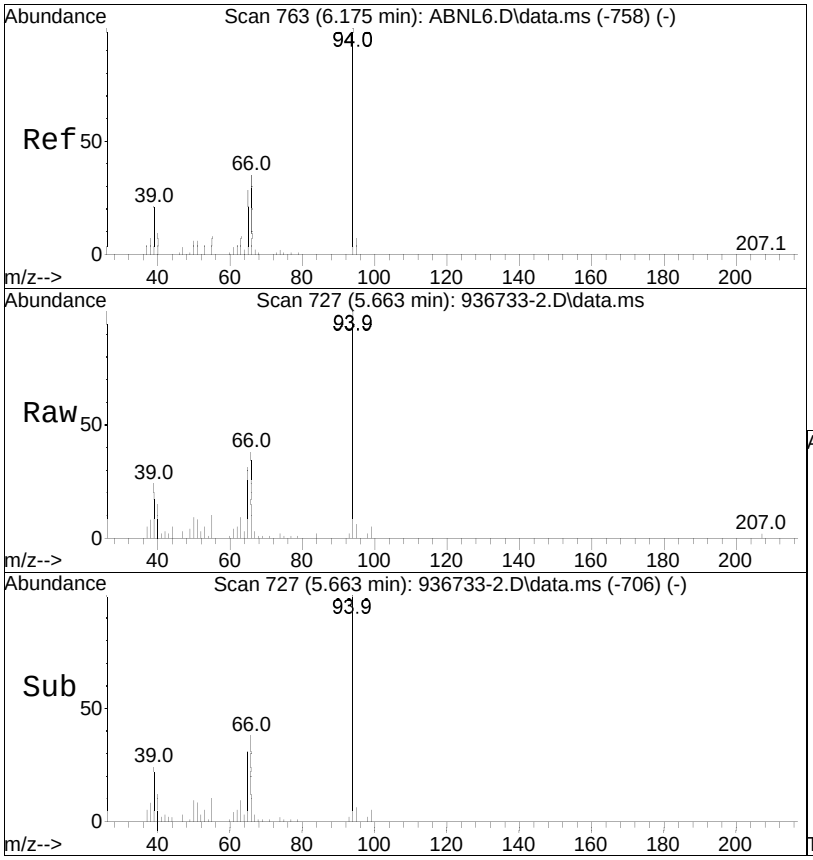


#6
2-Chlorophenol
Concen: 1.18 ug/ml
RT: 5.734 min Scan# 739
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:128 Resp: 20575

Ion	Ratio	Lower	Upper
128	100		
64	52.7	45.1	67.7
130	31.9	26.2	39.4

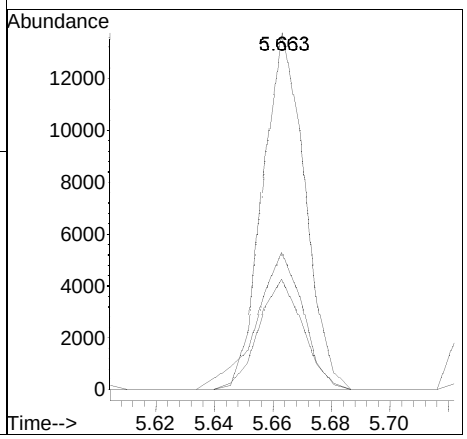


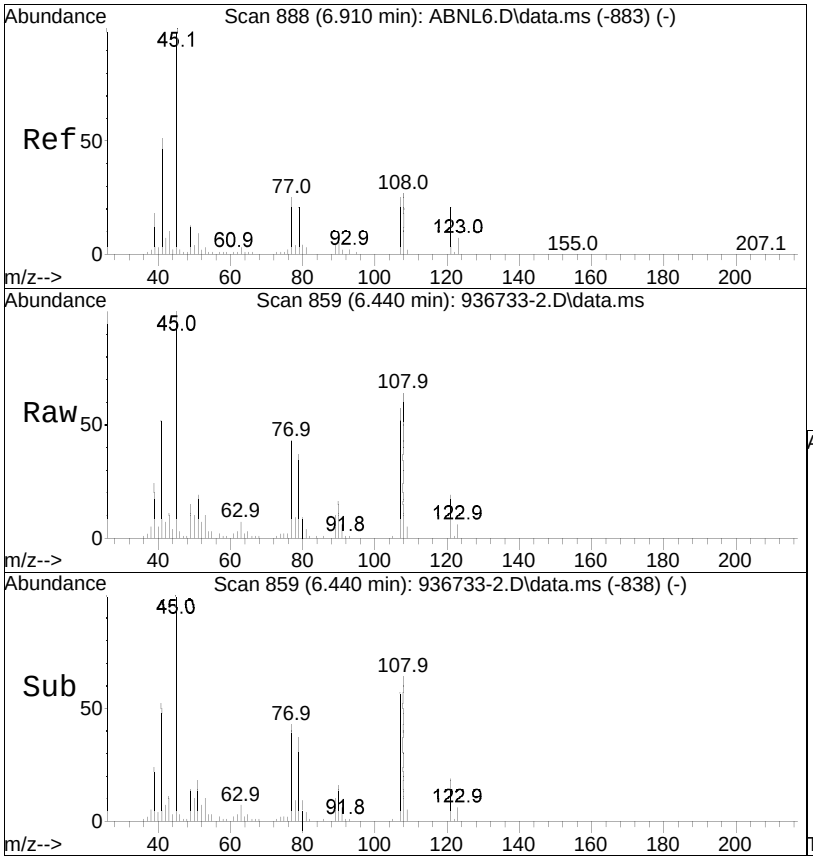


#8
Phenol
Concen: 0.65 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 94 Resp: 13721

Ion	Ratio	Lower	Upper
94	100		
65	32.8	26.0	39.0
66	43.0	33.8	50.8

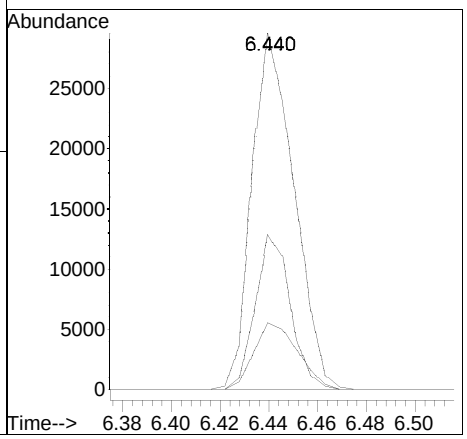


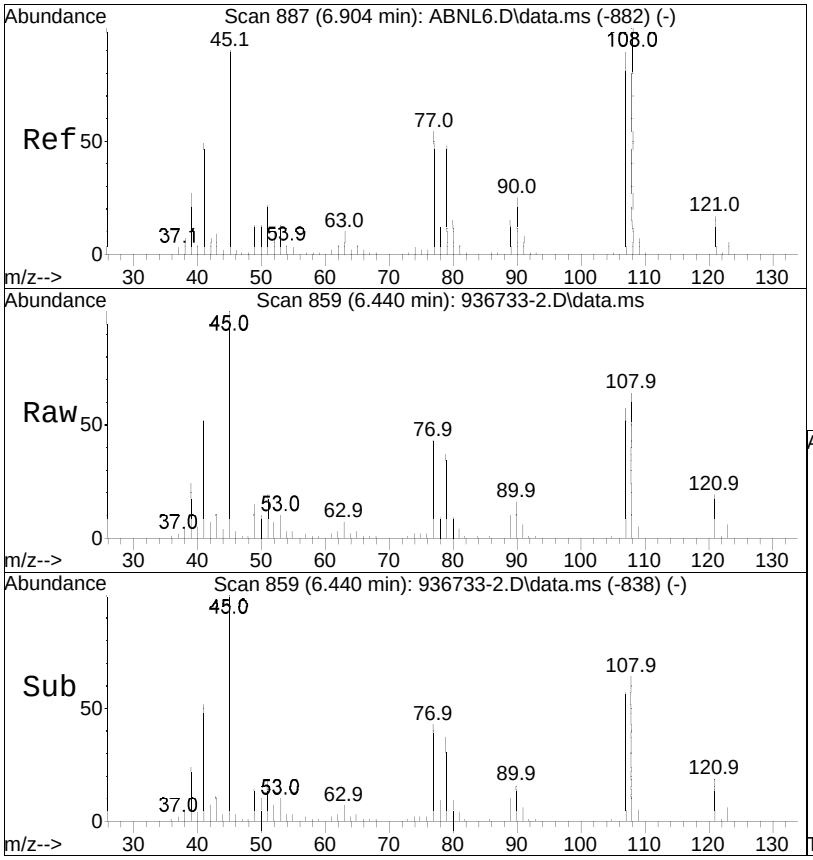


#14
Bis(2-chloroisopropyl)ether
Concen: 1.48 ug/ml
RT: 6.440 min Scan# 859
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 45 Resp: 35392

Ion	Ratio	Lower	Upper
45	100		
121	19.6	9.8	14.6#
77	36.5	6.1	9.1#

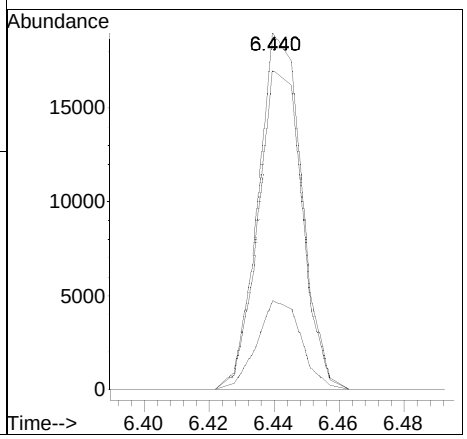


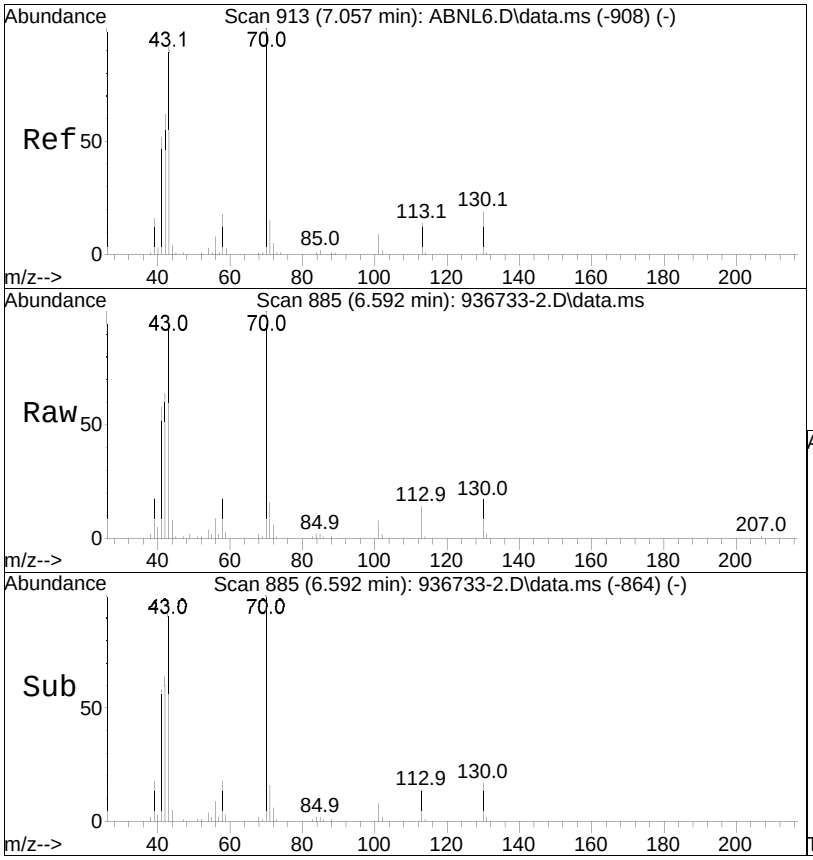


#15
2-Methylphenol
Concen: 1.15 ug/ml
RT: 6.440 min Scan# 859
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:108 Resp: 17574

Ion	Ratio	Lower	Upper
108	100		
107	90.3	70.7	106.1
90	25.6	18.7	28.1

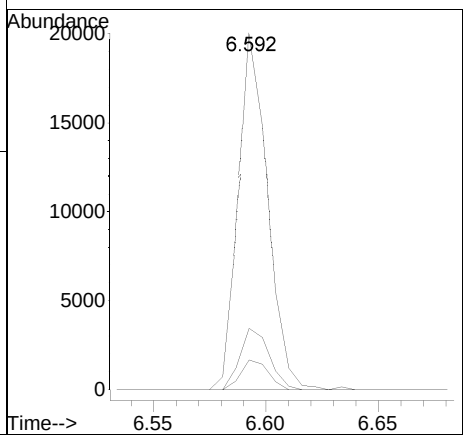


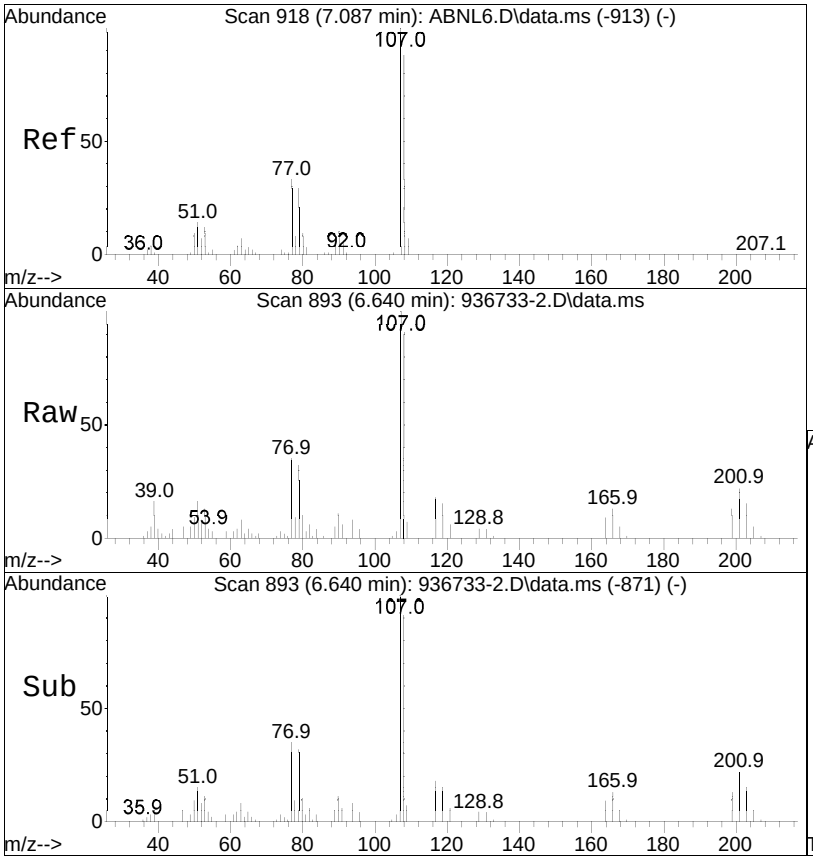


#17
n-Nitrosodi-n-propylamine
Concen: 1.40 ug/ml
RT: 6.592 min Scan# 885
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 70 Resp: 18175

Ion	Ratio	Lower	Upper
70	100		
130	17.1	18.2	27.4#
101	7.8	7.8	11.8#

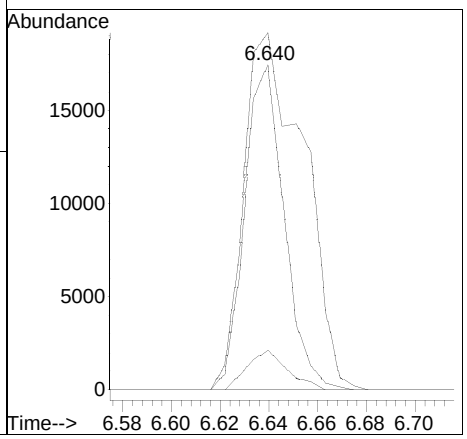


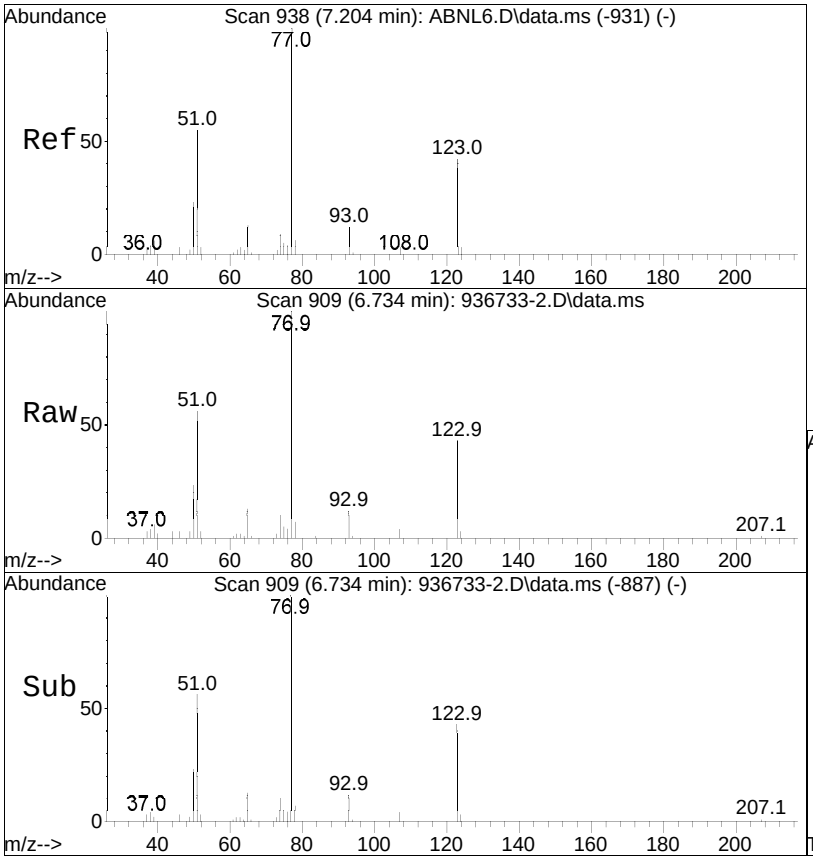


#18
3-Methylphenol/4-Methylphenol
Concen: 1.23 ug/ml
RT: 6.640 min Scan# 893
Delta R.T. 0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:108 Resp: 19653

Ion	Ratio	Lower	Upper
108	100		
107	165.9	88.6	132.8#
90	12.4	8.8	13.2

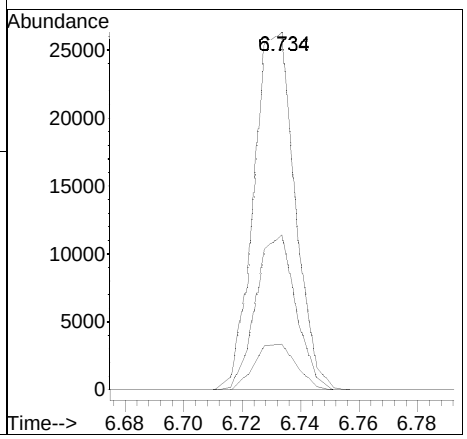


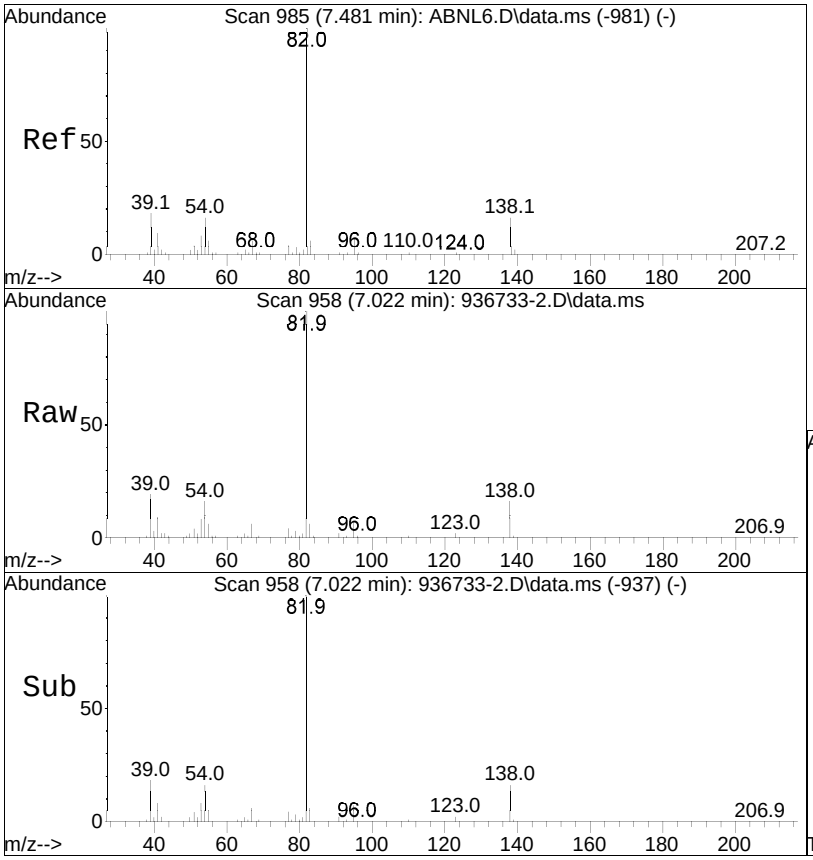


#20
Nitrobenzene
Concen: 1.44 ug/ml
RT: 6.734 min Scan# 909
Delta R.T. 0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 77 Resp: 25547

Ion	Ratio	Lower	Upper
77	100		
123	42.3	36.3	54.5
65	13.2	11.6	17.4

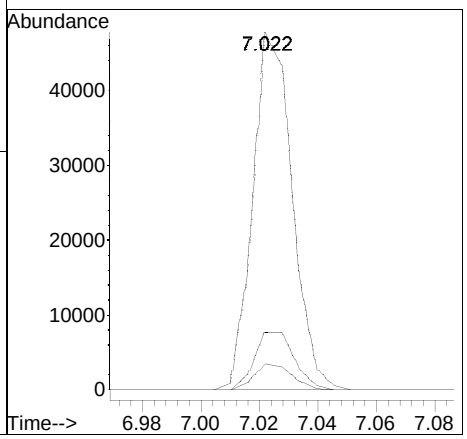


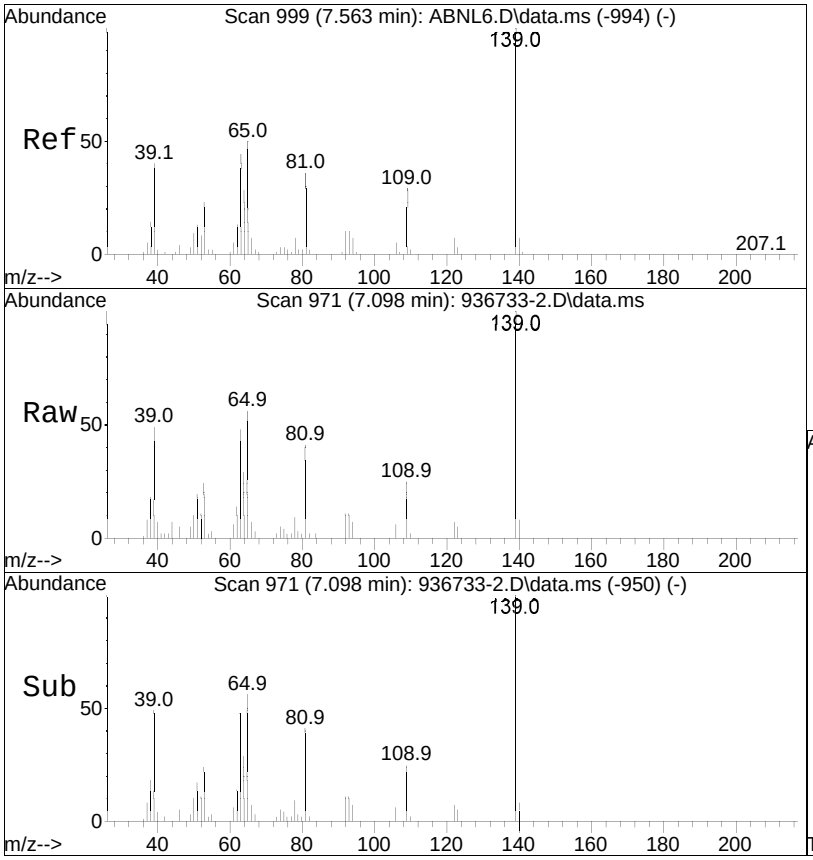


#21
Isophorone
Concen: 1.30 ug/ml
RT: 7.022 min Scan# 958
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 82 Resp: 44244

Ion	Ratio	Lower	Upper
82	100		
138	16.5	14.7	22.1
95	7.0	5.2	7.8

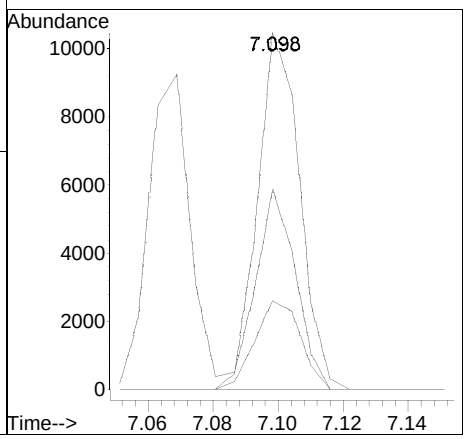


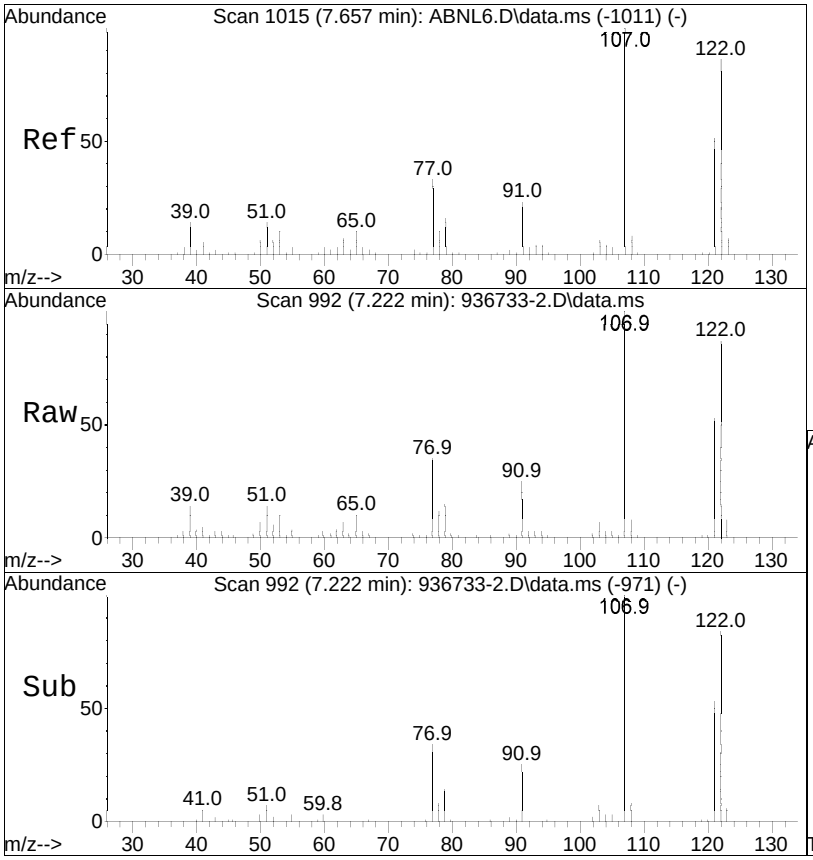


#22
2-Nitrophenol
Concen: 1.19 ug/ml
RT: 7.098 min Scan# 971
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:139 Resp: 9416

Ion	Ratio	Lower	Upper
139	100		
109	27.0	19.4	29.0
65	53.5	46.1	69.1

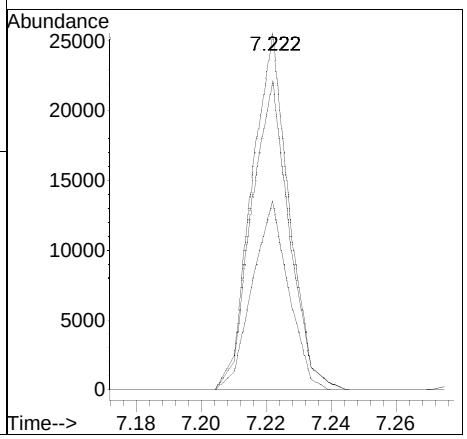


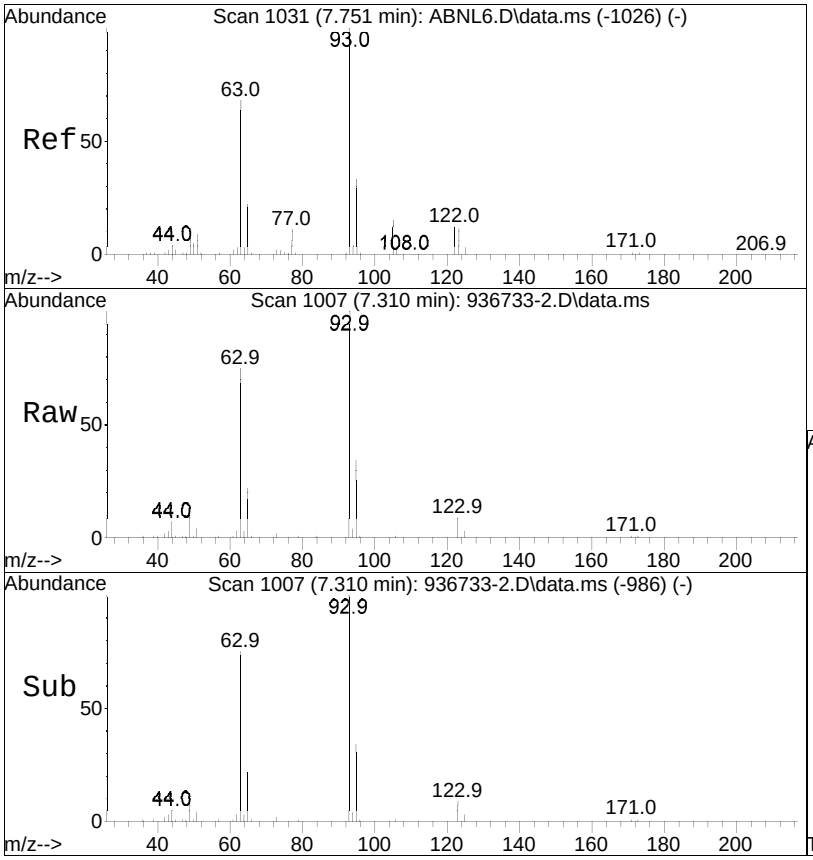


#23
2,4-Dimethylphenol
Concen: 1.25 ug/ml
RT: 7.222 min Scan# 992
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:107 Resp: 20149

Ion	Ratio	Lower	Upper
107	100		
121	51.8	40.0	60.0
122	87.9	70.2	105.4

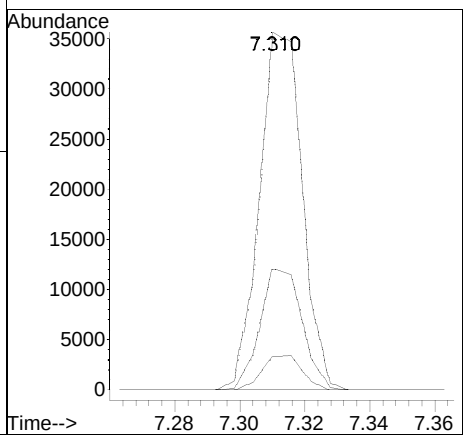


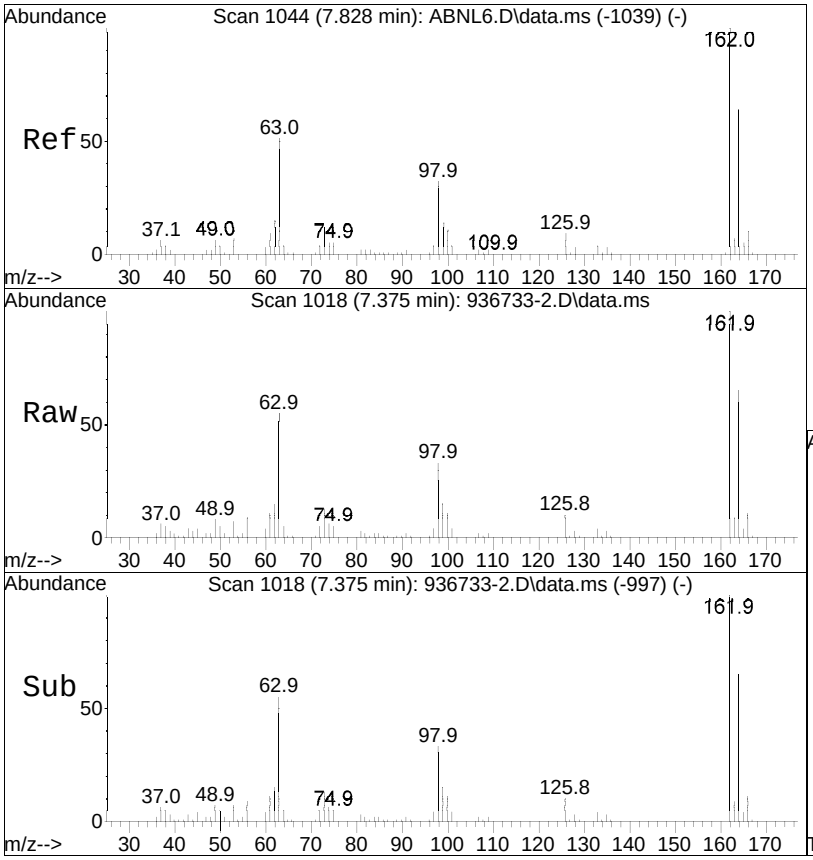


#24
Bis(2-chloroethoxy)methane
Concen: 1.45 ug/ml
RT: 7.310 min Scan# 1007
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 93 Resp: 32304

Ion	Ratio	Lower	Upper
93	100		
95	33.5	25.8	38.8
123	9.1	10.1	15.1#

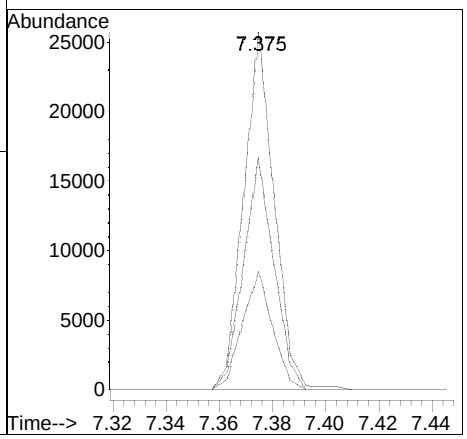


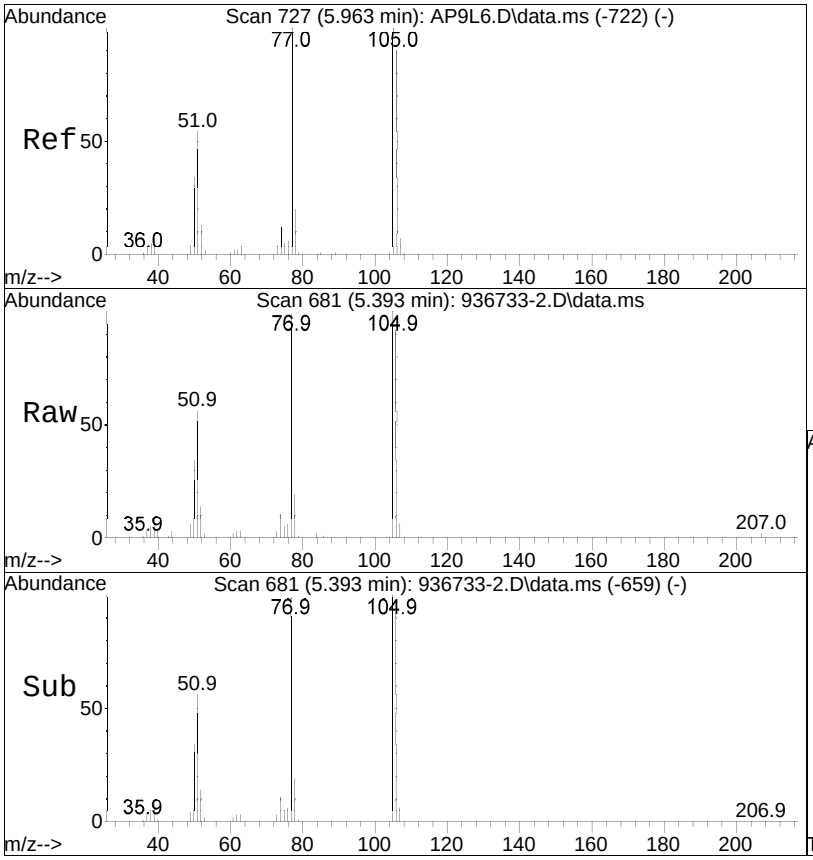


#25
2,4-Dichlorophenol
Concen: 1.25 ug/ml
RT: 7.375 min Scan# 1018
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:162 Resp: 20287

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.0	76.4
98	32.8	32.2	48.2

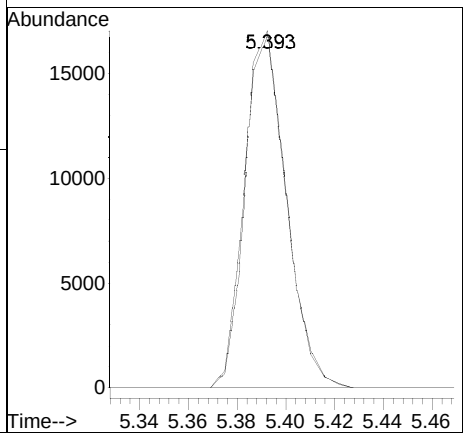


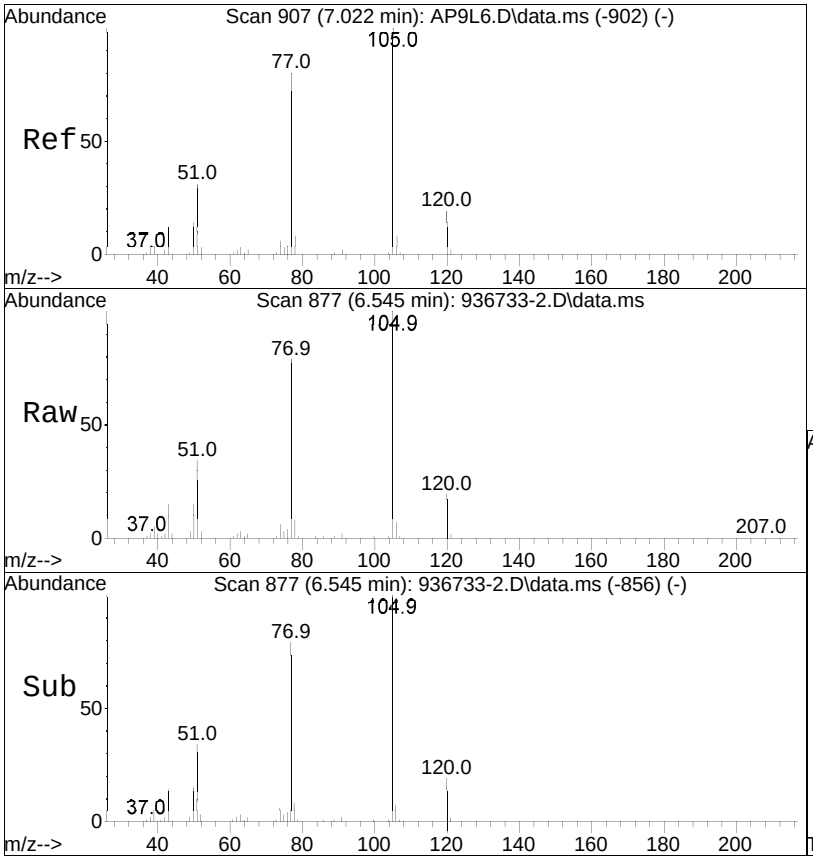


#28
Benzaldehyde
Concen: 1.33 ug/ml
RT: 5.393 min Scan# 681
Delta R.T. 0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:105 Resp: 20100

Ion	Ratio	Lower	Upper
105	100		
77	100.2	82.2	123.4

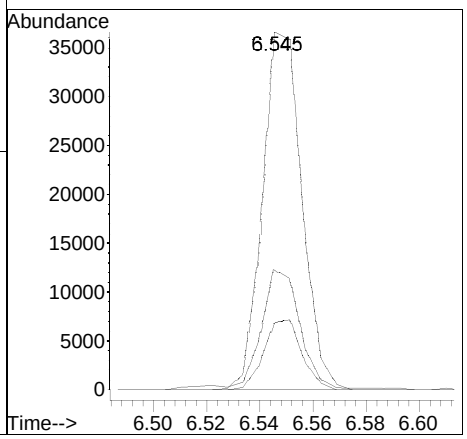


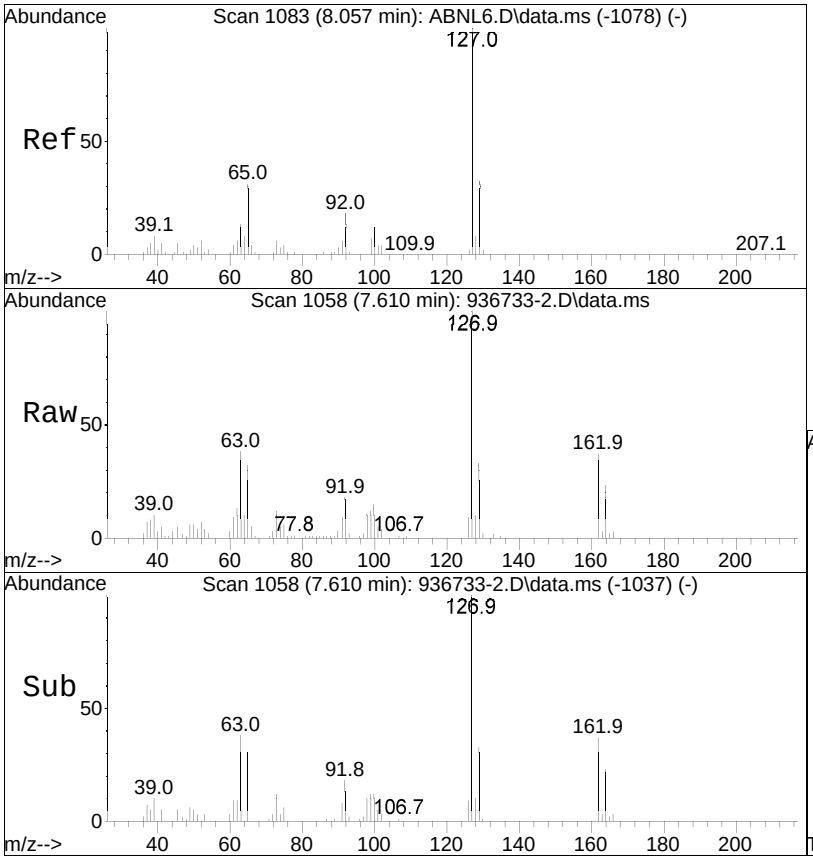


#29
Acetophenone
Concen: 1.43 ug/ml
RT: 6.545 min Scan# 877
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:105 Resp: 37323

Ion	Ratio	Lower	Upper
105	100		
120	18.8	20.5	30.7#
51	34.5	34.9	52.3#

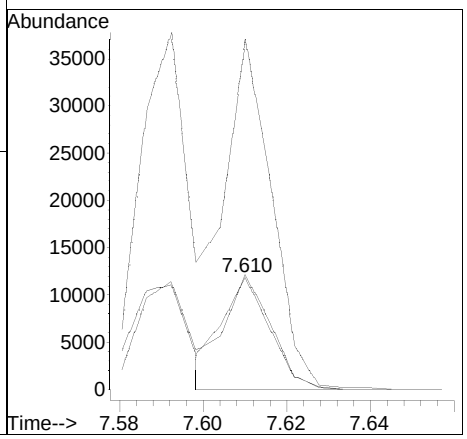


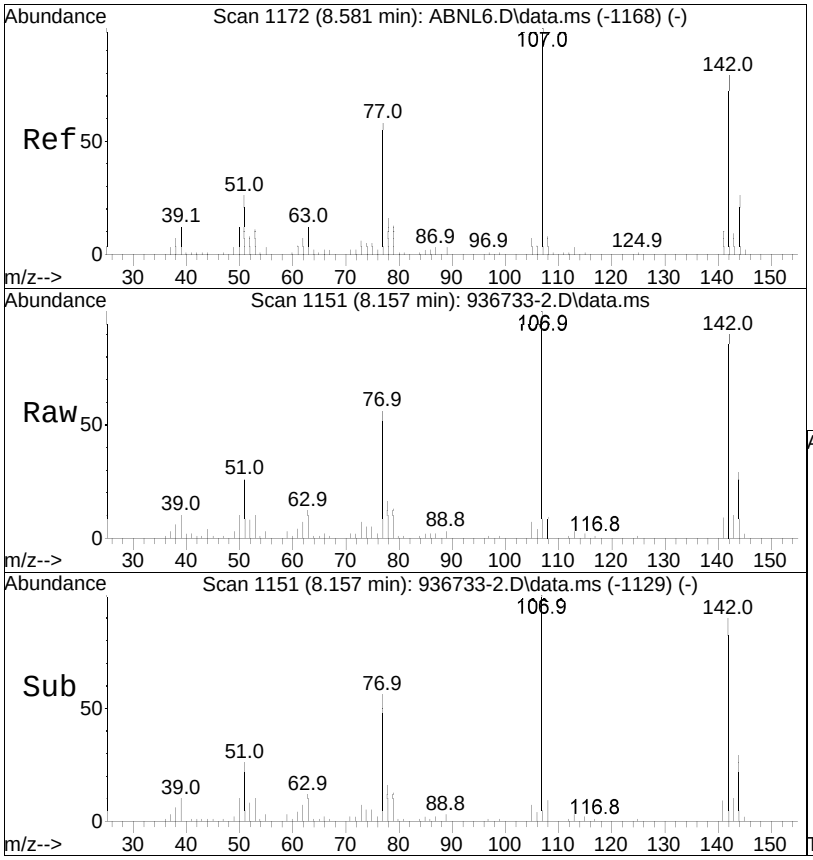


#37
4-Chloroaniline
Concen: 1.37 ug/ml
RT: 7.610 min Scan# 1058
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 65 Resp: 9439

Ion	Ratio	Lower	Upper
65	100		
127	242.9	237.6	356.4
129	99.1	76.3	114.5

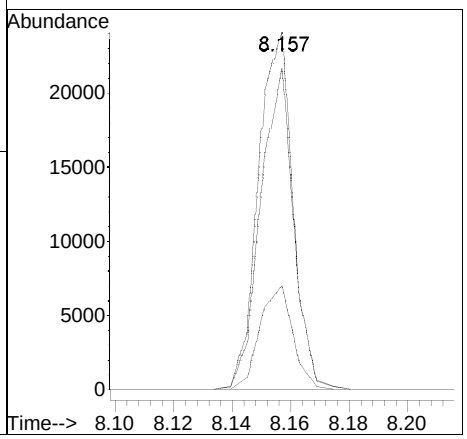


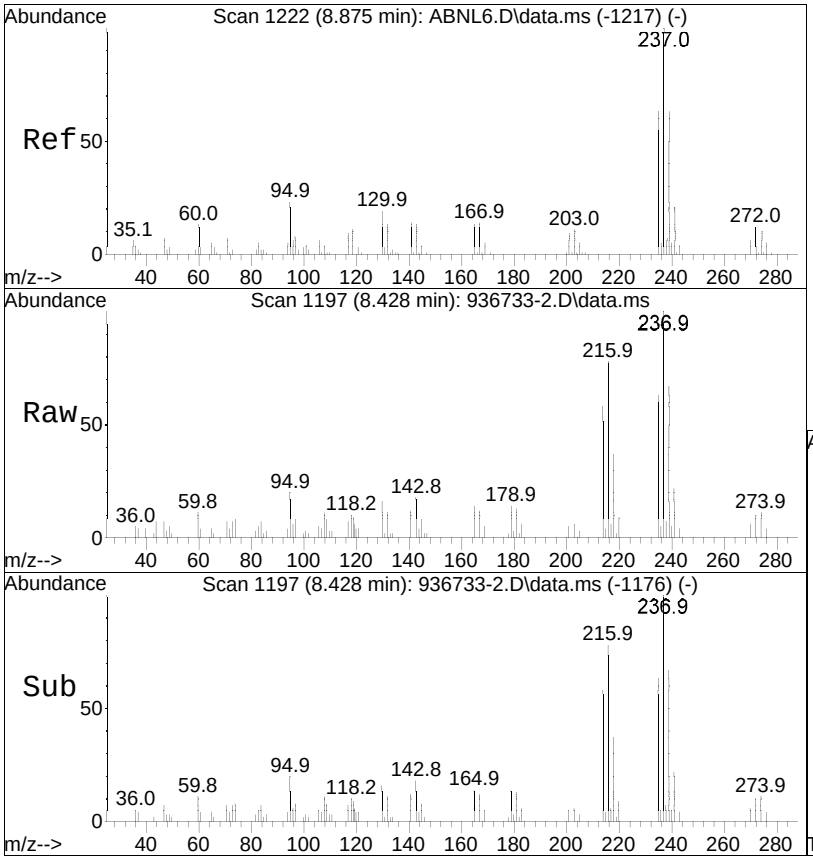


#39
p-Chloro-m-cresol
Concen: 1.31 ug/ml
RT: 8.157 min Scan# 1151
Delta R.T. 0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:107 Resp: 19529

Ion	Ratio	Lower	Upper
107	100		
144	27.9	20.9	31.3
142	86.0	66.1	99.1

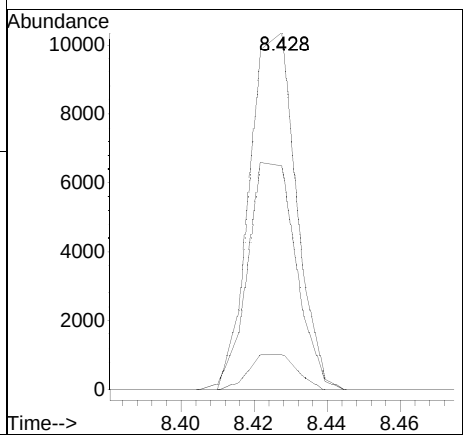


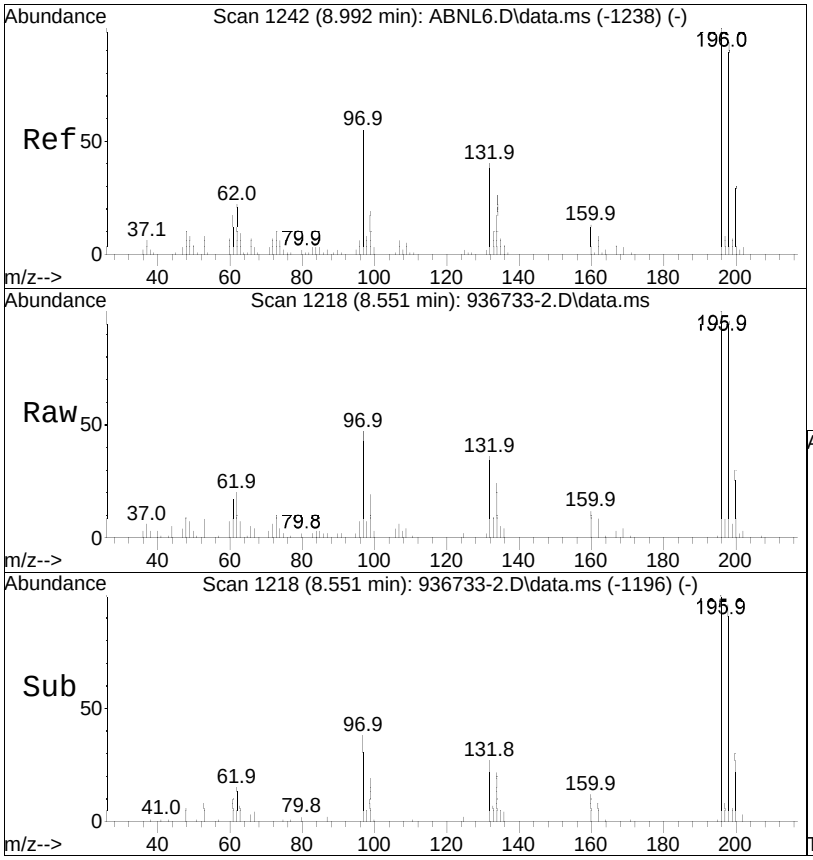


#42
Hexachlorocyclopentadiene
Concen: 0.82 ug/ml
RT: 8.428 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:237 Resp: 9195

Ion	Ratio	Lower	Upper
237	100		
235	66.3	49.7	74.5
272	10.3	9.8	14.6

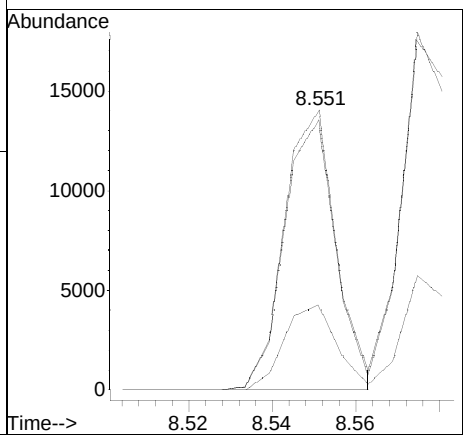


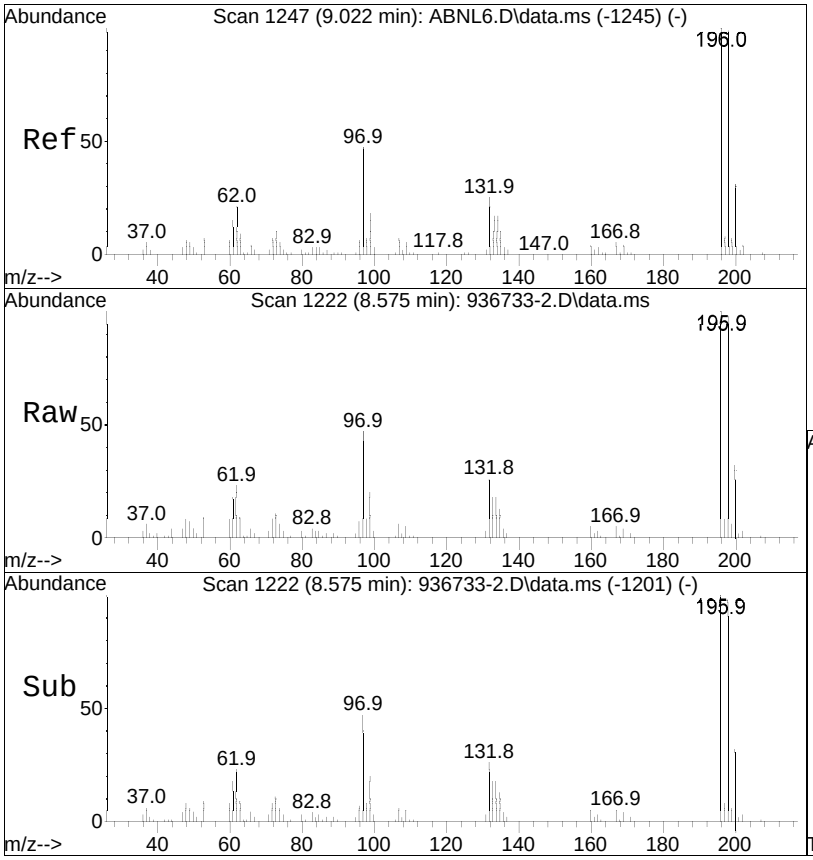


#43
2,4,6-Trichlorophenol
Concen: 0.94 ug/ml
RT: 8.551 min Scan# 1218
Delta R.T. 0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:196 Resp: 12109

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.5	116.3
200	31.1	23.8	35.6

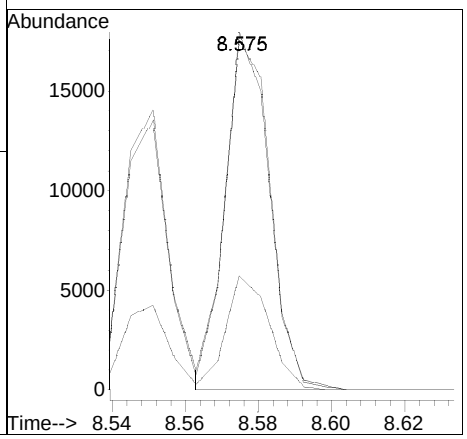


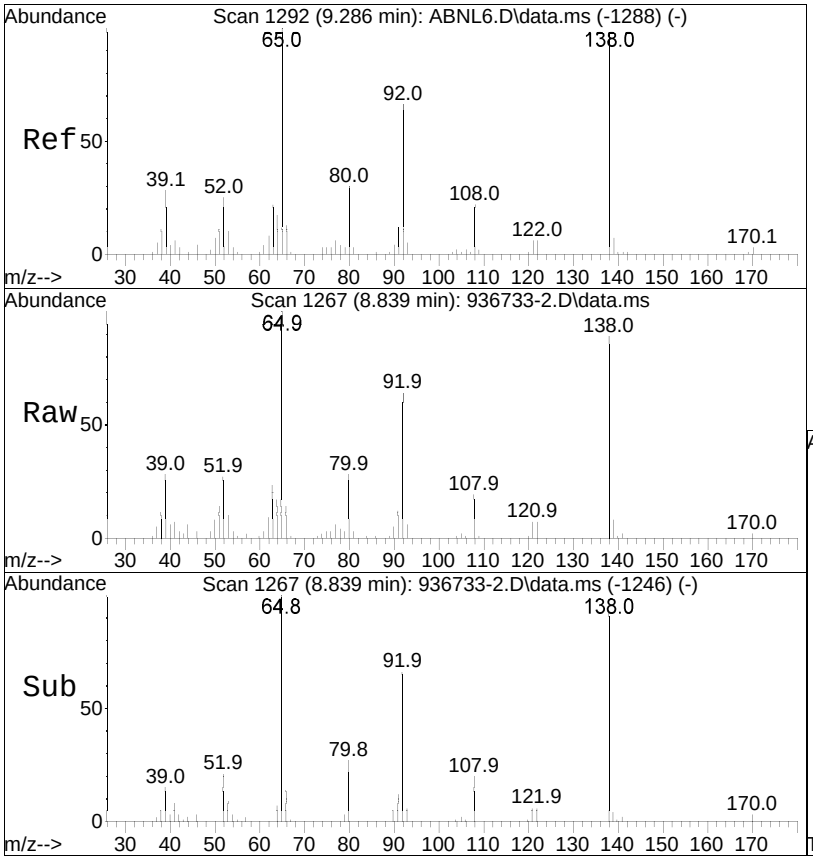


#44
2,4,5-Trichlorophenol
Concen: 1.09 ug/ml
RT: 8.575 min Scan# 1222
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:196 Resp: 14965

Ion	Ratio	Lower	Upper
196	100		
200	31.6	25.4	38.0
198	100.4	78.0	117.0

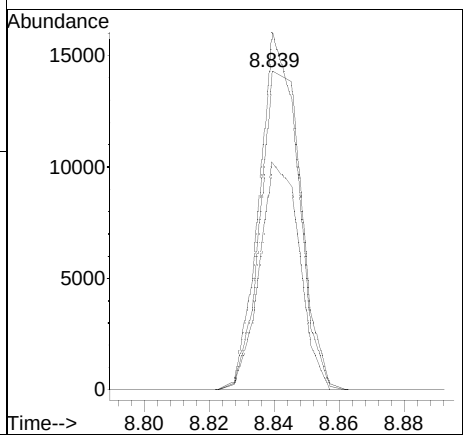


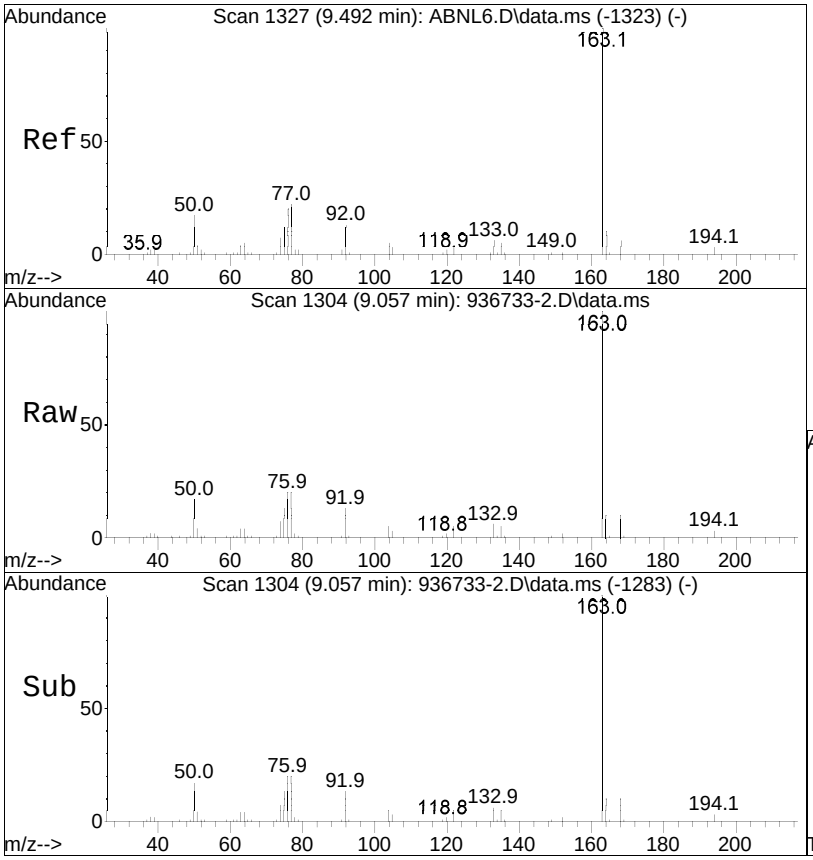


#47
2-Nitroaniline
Concen: 1.33 ug/ml
RT: 8.839 min Scan# 1267
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:138 Resp: 12616

Ion	Ratio	Lower	Upper
138	100		
92	68.8	53.5	80.3
65	104.6	86.3	129.5

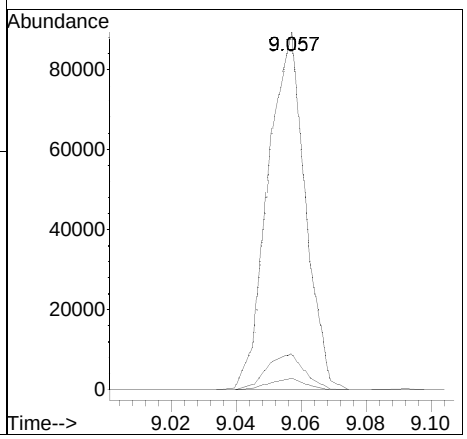


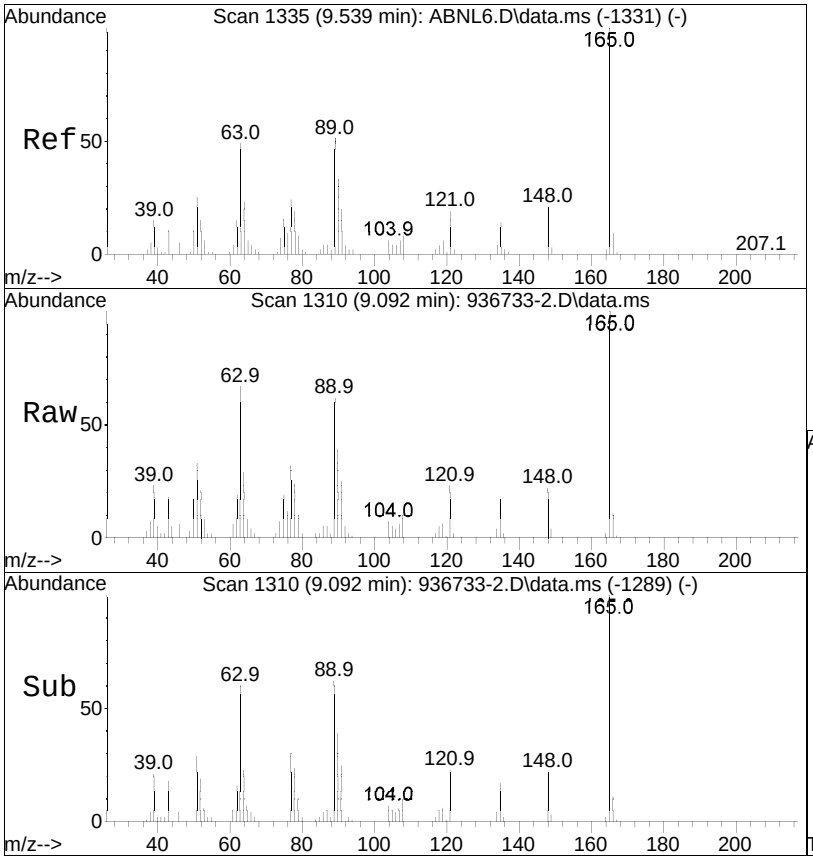


#50
Dimethyl phthalate
Concen: 1.53 ug/ml
RT: 9.057 min Scan# 1304
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:163 Resp: 70279

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.3	7.9	11.9

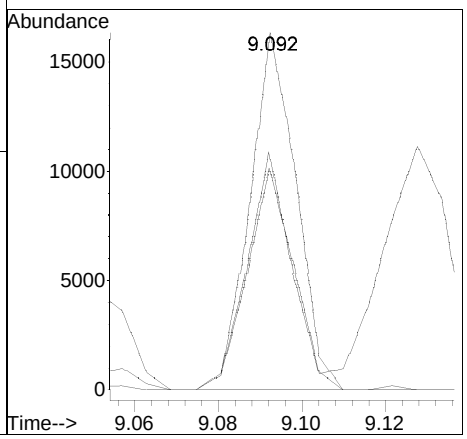


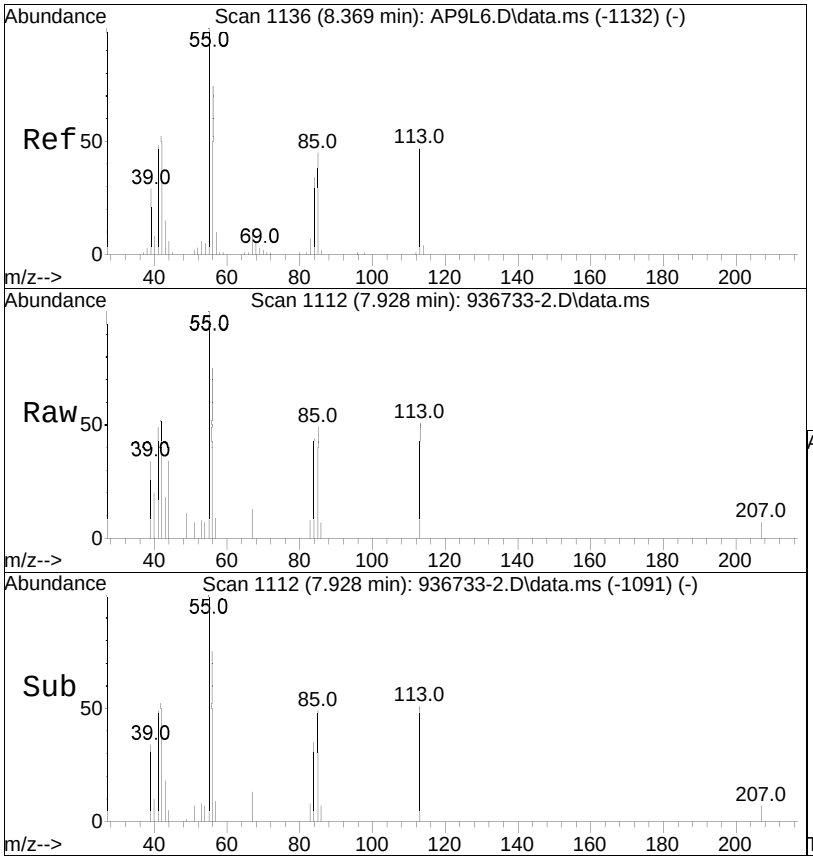


#52
2,6-Dinitrotoluene
Concen: 1.50 ug/ml
RT: 9.092 min Scan# 1310
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:165 Resp: 12529

Ion	Ratio	Lower	Upper
165	100		
89	62.2	54.2	81.2
63	63.7	64.2	96.2#

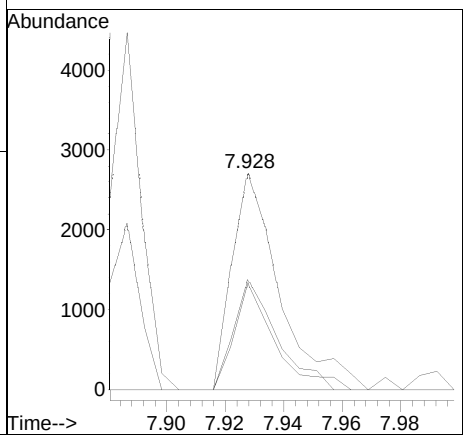


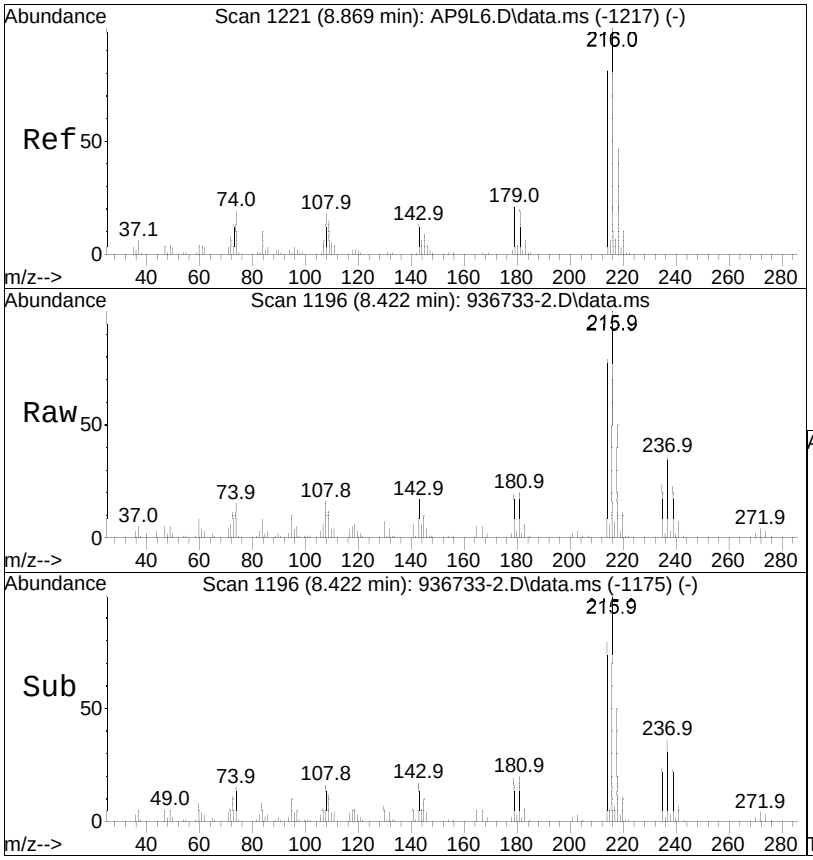


#59
Caprolactam
Concen: 0.38 ug/ml
RT: 7.928 min Scan# 1112
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 55 Resp: 3093

Ion	Ratio	Lower	Upper
55	100		
85	41.5	19.8	29.6#
113	45.7	29.6	44.4#

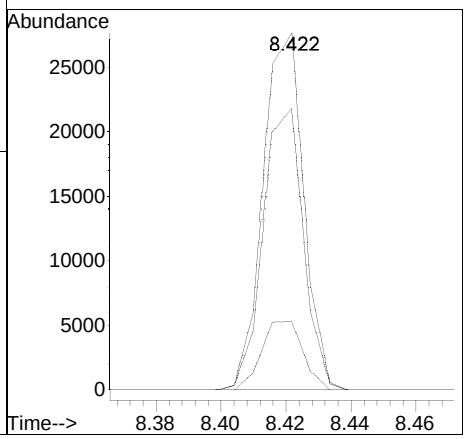


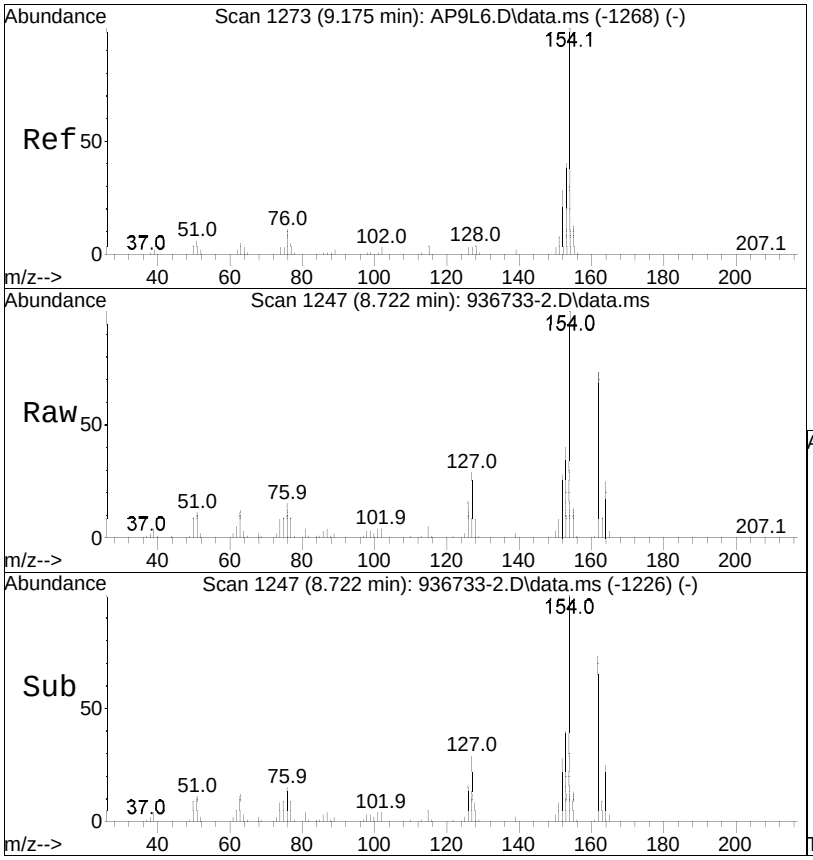


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.09 ug/ml
RT: 8.422 min Scan# 1196
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:216 Resp: 23956

Ion	Ratio	Lower	Upper
216	100		
214	78.2	63.7	95.5
179	19.6	19.0	28.6

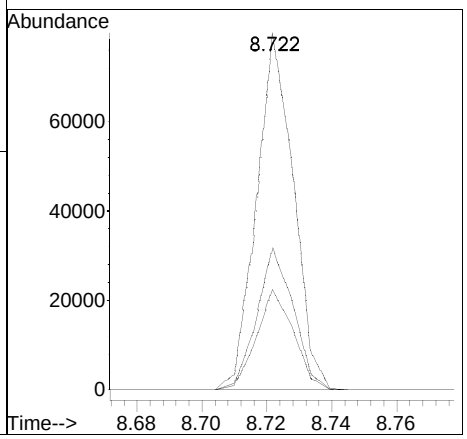


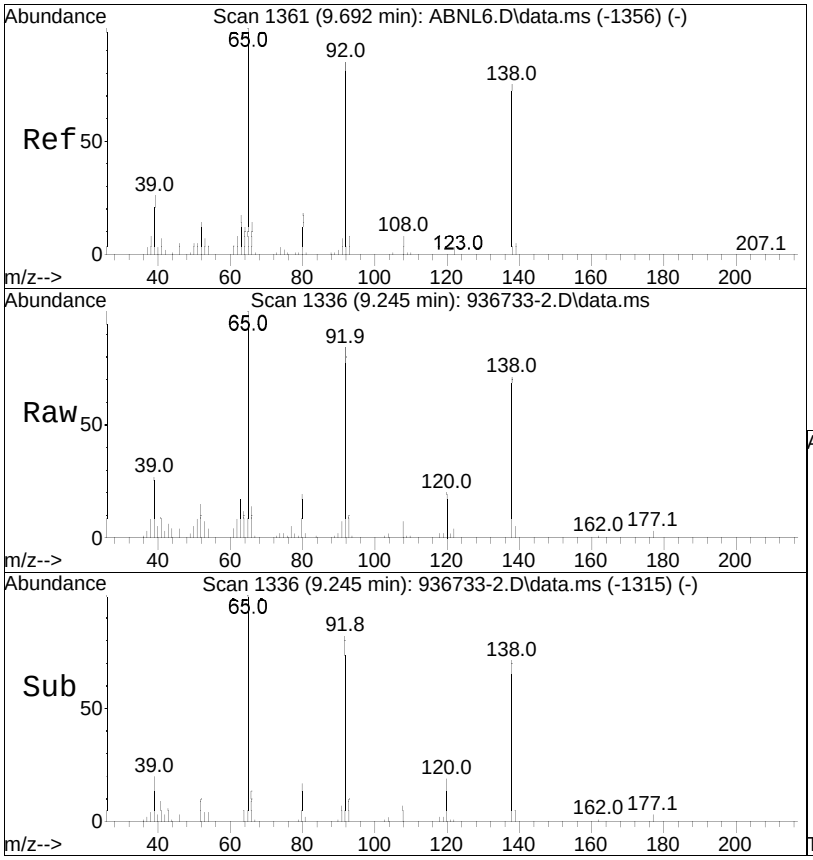


#61
Biphenyl
Concen: 1.23 ug/ml
RT: 8.722 min Scan# 1247
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:154 Resp: 62332

Ion	Ratio	Lower	Upper
154	100		
153	39.6	32.3	48.5
152	28.3	22.5	33.7

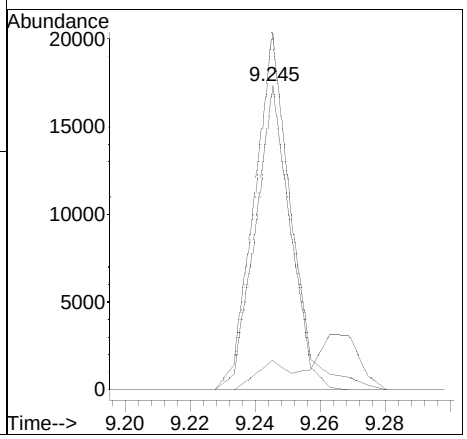


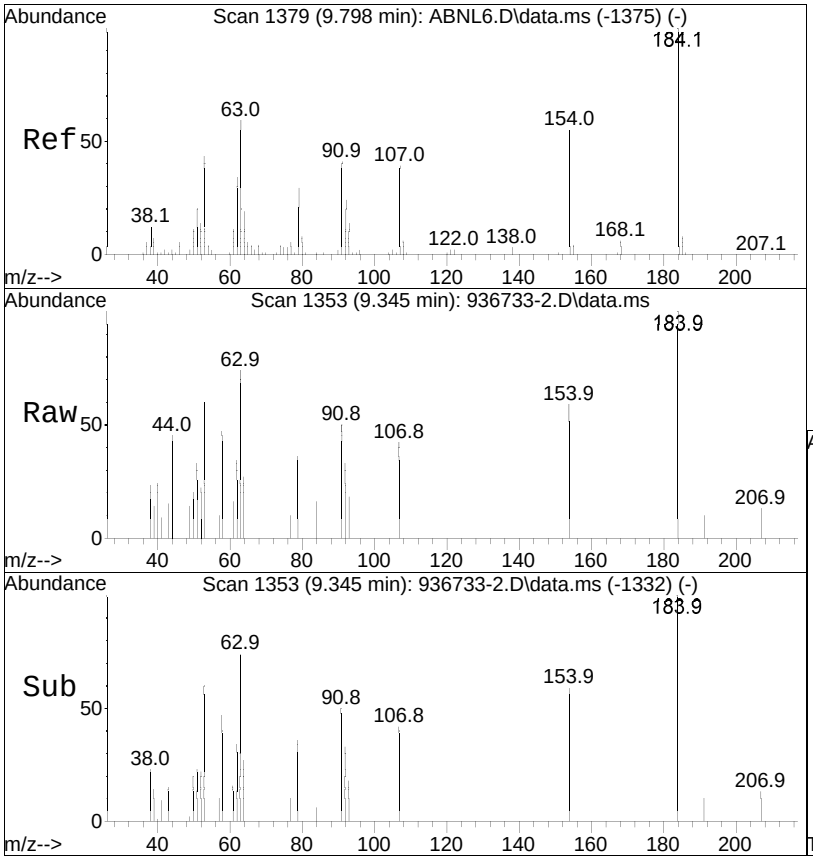


#63
3-Nitroaniline
Concen: 1.48 ug/ml
RT: 9.245 min Scan# 1336
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:138 Resp: 12854

Ion	Ratio	Lower	Upper
138	100		
92	124.4	93.4	140.2
108	32.0	9.5	14.3#

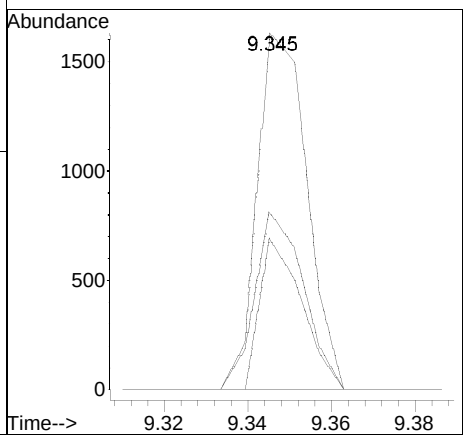


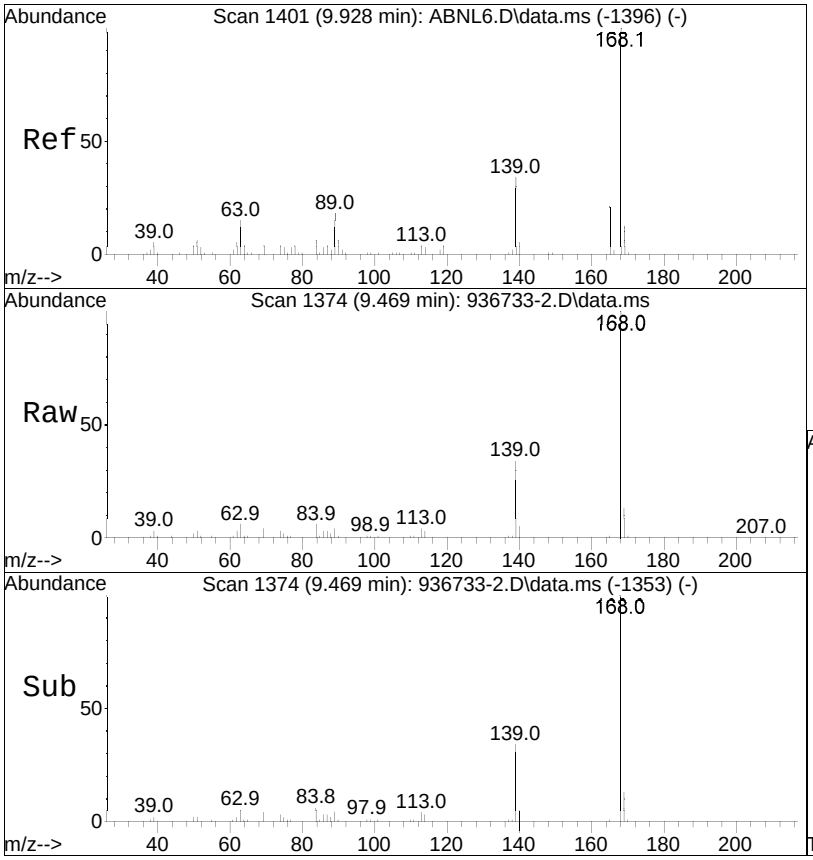


#65
2,4-Dinitrophenol
Concen: 1.18 ug/ml
RT: 9.345 min Scan# 1353
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:184 Resp: 1340

Ion	Ratio	Lower	Upper
184	100		
107	36.1	37.7	56.5#
91	49.0	46.3	69.5

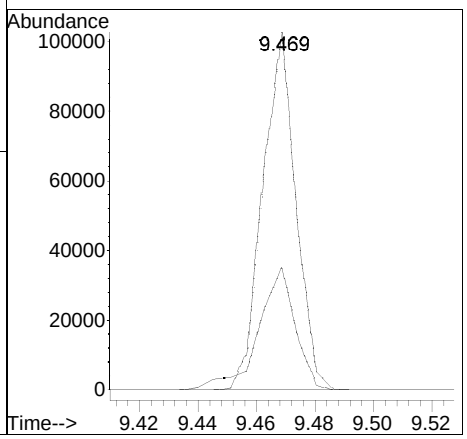


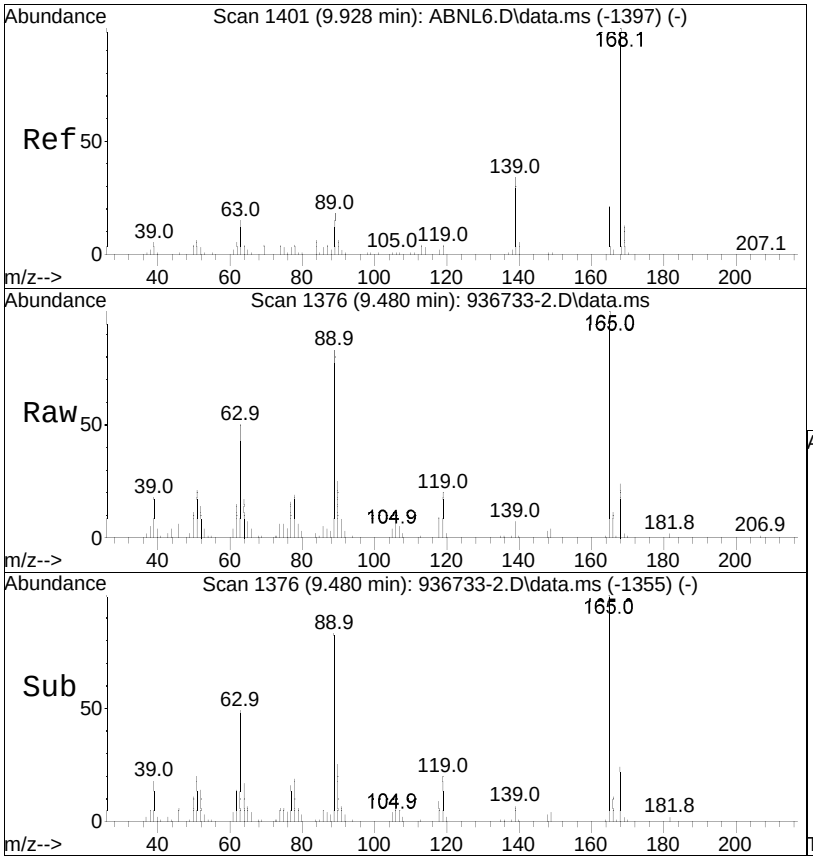


#66
Dibenzofuran
Concen: 1.35 ug/ml
RT: 9.469 min Scan# 1374
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:168 Resp: 79709

Ion	Ratio	Lower	Upper
168	100		
139	38.4	31.4	47.2

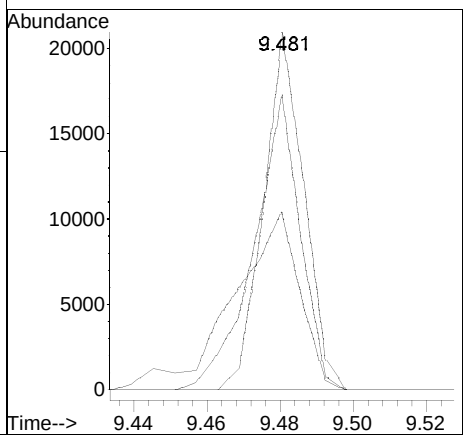


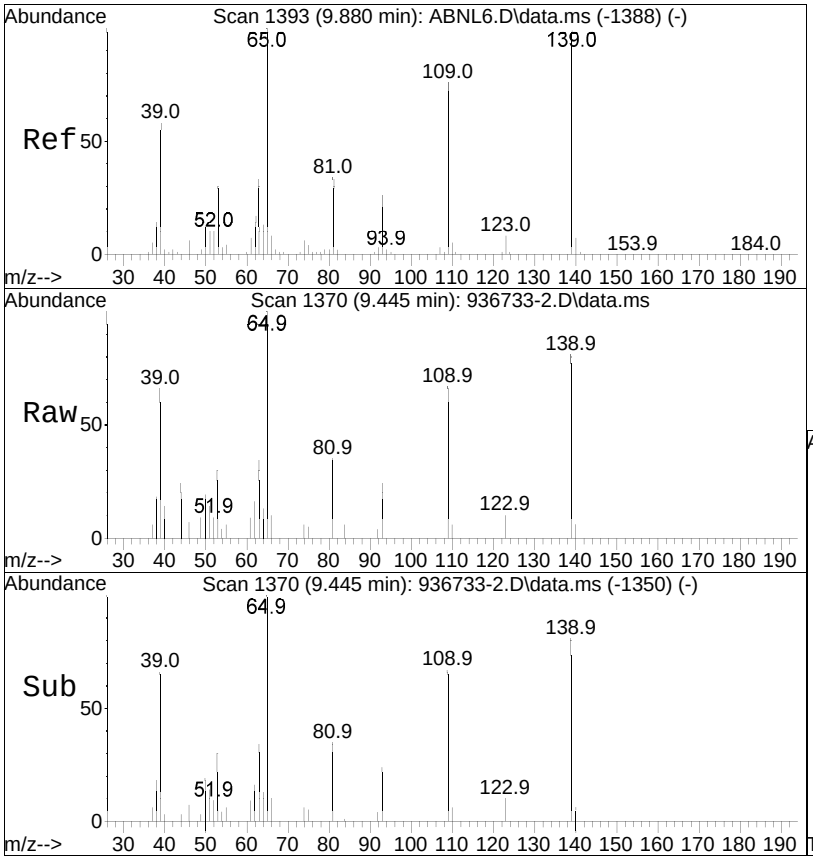


#67
2,4-Dinitrotoluene
Concen: 1.51 ug/ml
RT: 9.480 min Scan# 1376
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:165 Resp: 15901

Ion	Ratio	Lower	Upper
165	100		
89	94.8	72.0	108.0
63	83.0	52.7	79.1#

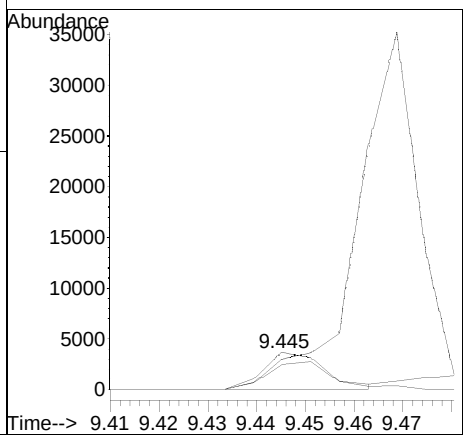


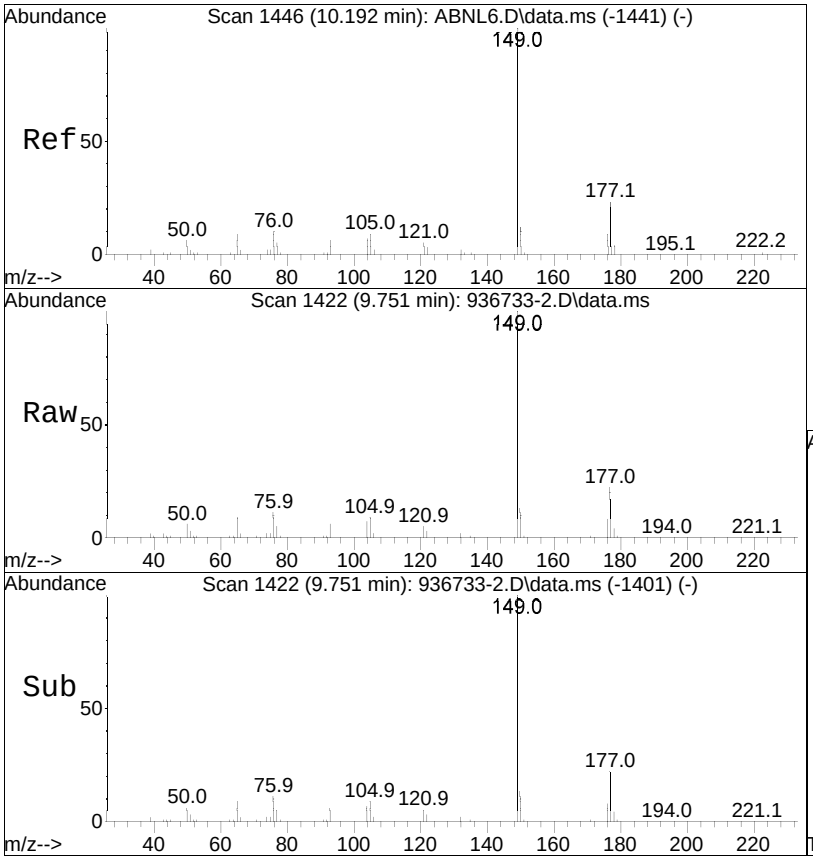


#68
4-Nitrophenol
Concen: 0.43 ug/ml
RT: 9.445 min Scan# 1370
Delta R.T. -0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion: 65 Resp: 3225

Ion	Ratio	Lower	Upper
65	100		
109	78.6	47.4	71.2#
139	0.0	76.6	115.0#

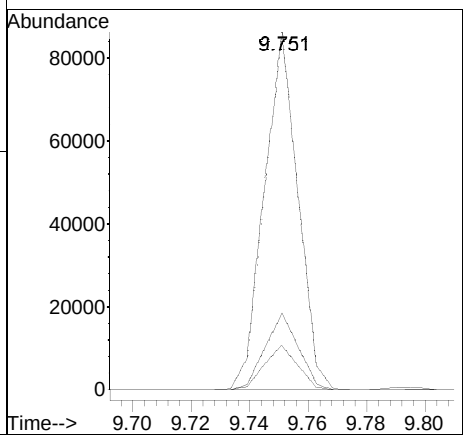


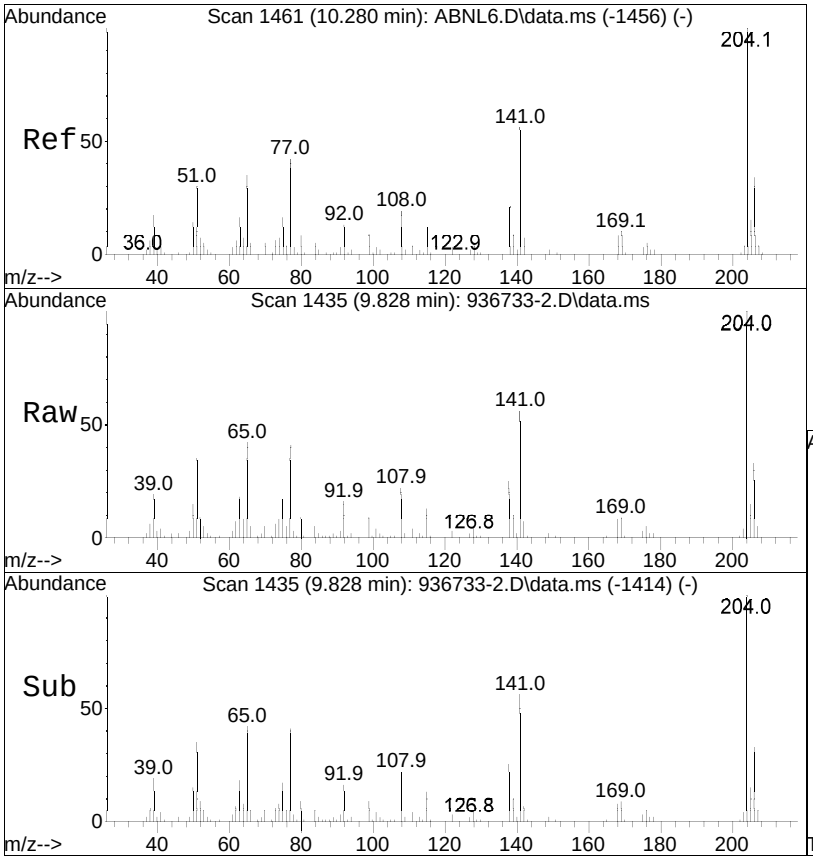


#71
Diethyl phthalate
Concen: 1.56 ug/ml
RT: 9.751 min Scan# 1422
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:149 Resp: 67972

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.1	24.1
150	12.5	9.4	14.2

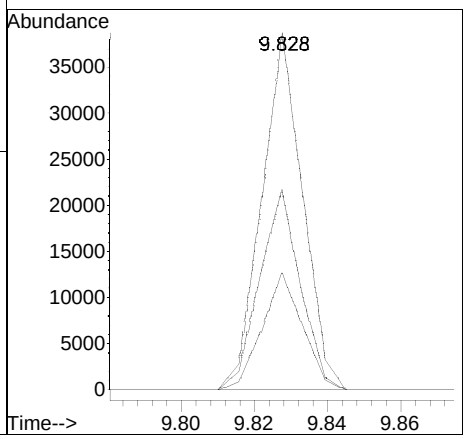


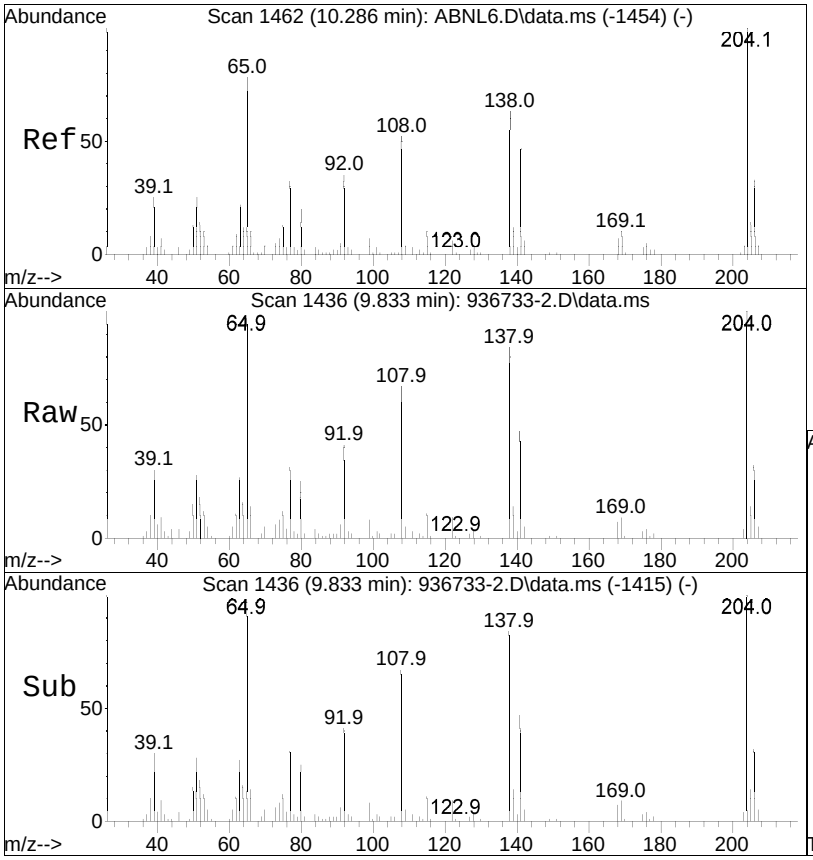


#73
4-Chlorophenyl phenyl ether
Concen: 1.32 ug/ml
RT: 9.828 min Scan# 1435
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:204 Resp: 29690

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	55.9	53.6	80.4

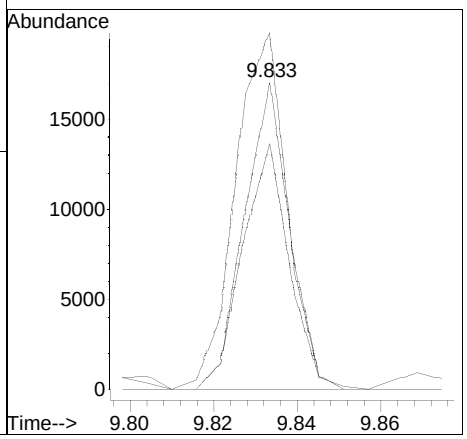


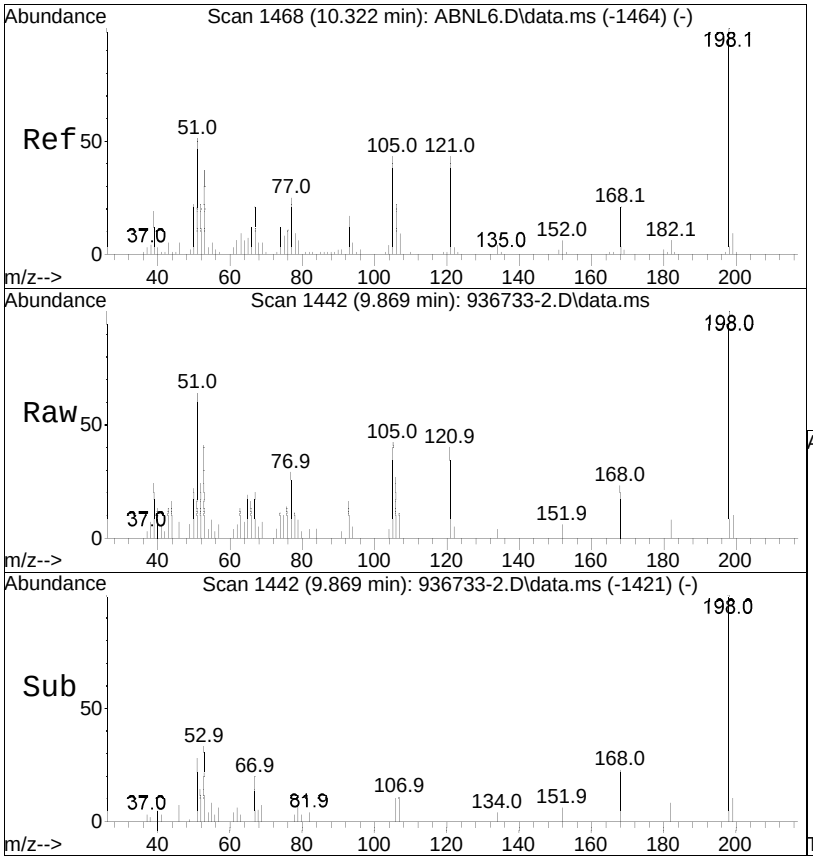


#74
4-Nitroaniline
Concen: 1.45 ug/ml
RT: 9.833 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:138 Resp: 12743

Ion	Ratio	Lower	Upper
138	100		
108	82.6	52.1	78.1#
65	132.7	115.0	172.6

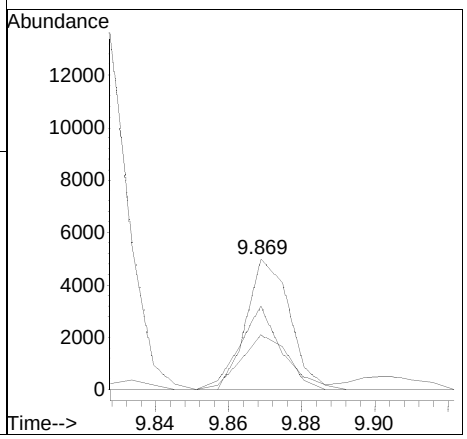


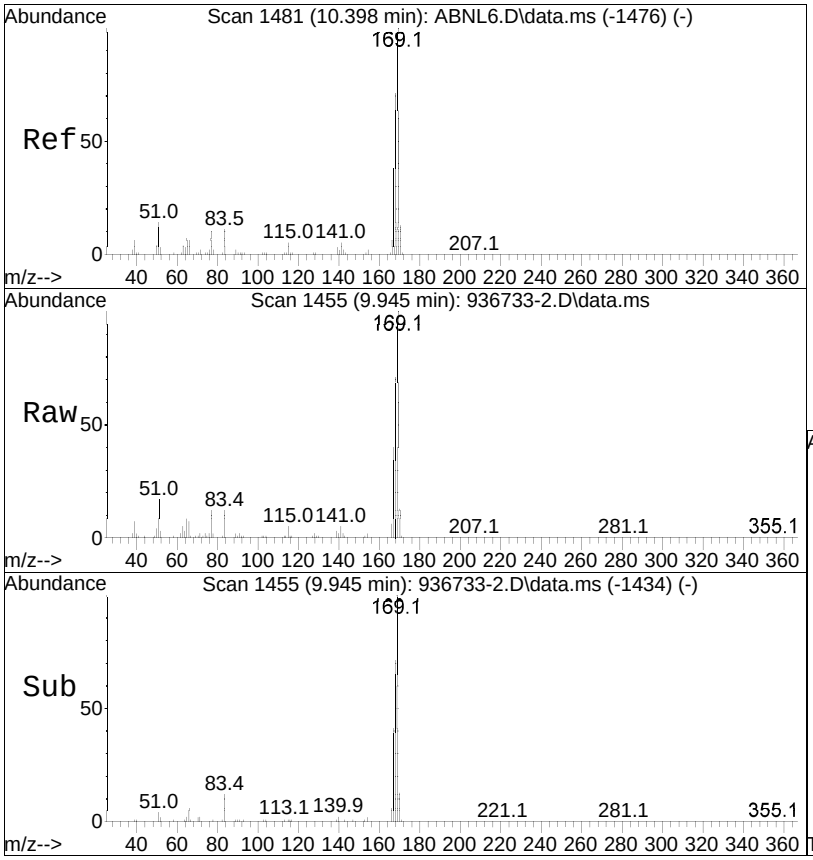


#75
4,6-Dinitro-o-cresol
Concen: 1.08 ug/ml
RT: 9.869 min Scan# 1442
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:198 Resp: 4099

Ion	Ratio	Lower	Upper
198	100		
51	62.3	76.0	114.0#
105	45.9	45.6	68.4

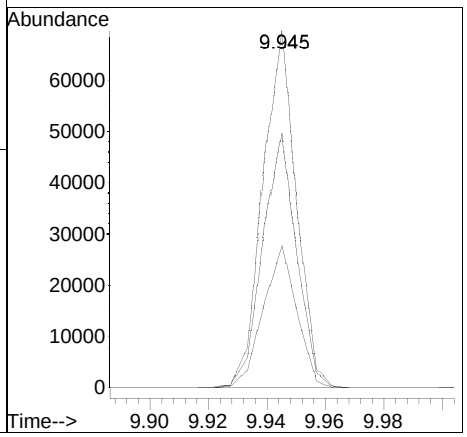


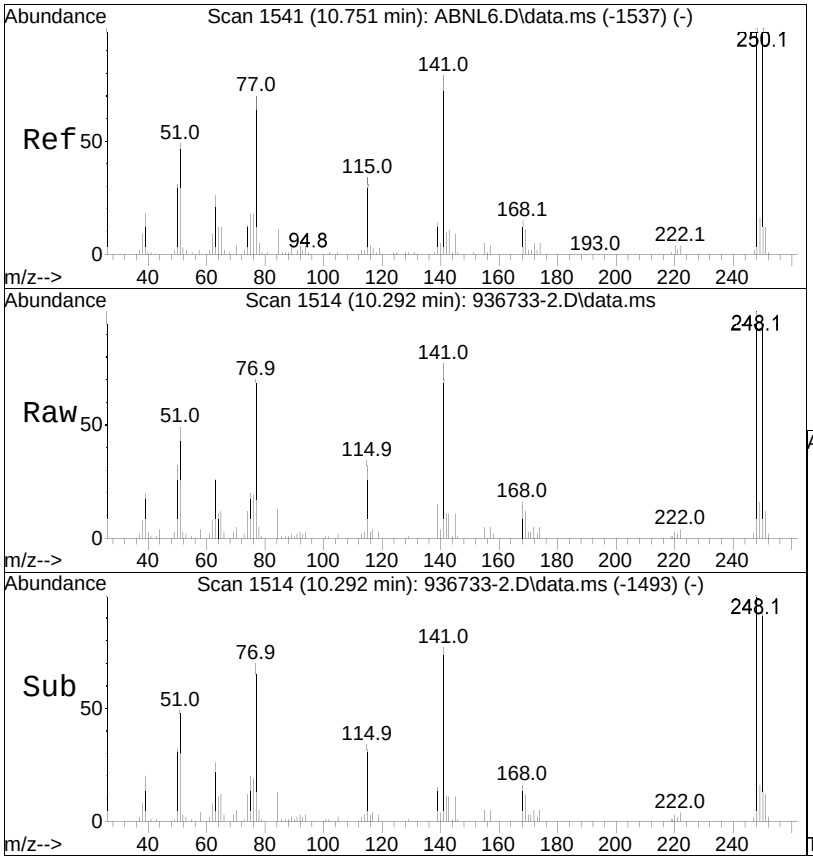


#76
NDPA/DPA
Concen: 1.46 ug/ml
RT: 9.945 min Scan# 1455
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:169 Resp: 55384

Ion	Ratio	Lower	Upper
169	100		
168	72.1	54.0	81.0
167	40.1	28.6	42.8

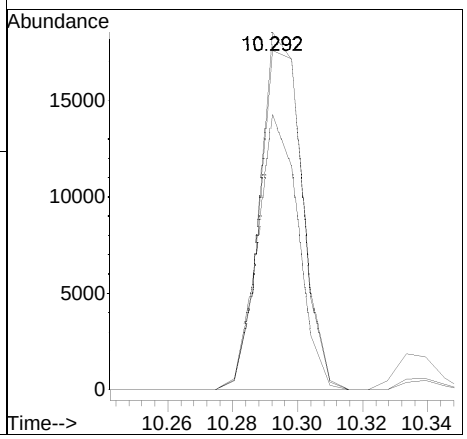


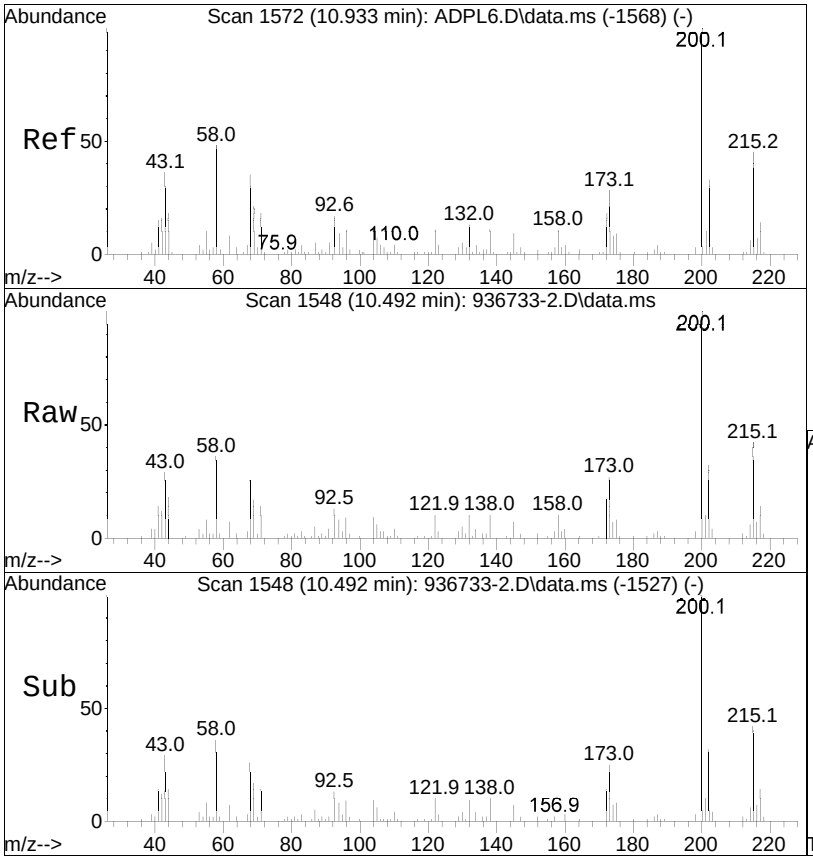


#79
4-Bromophenyl phenyl ether
Concen: 1.31 ug/ml
RT: 10.292 min Scan# 1514
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:248 Resp: 16529

Ion	Ratio	Lower	Upper
248	100		
141	74.8	76.6	114.8#
250	97.0	77.3	115.9

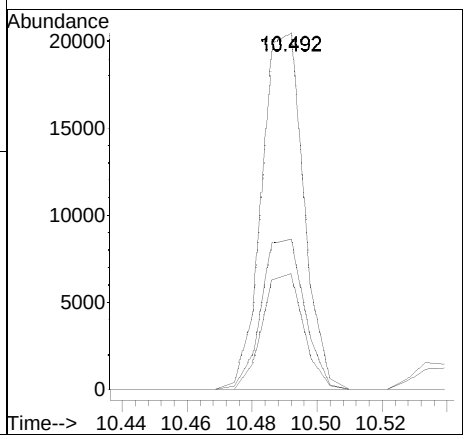


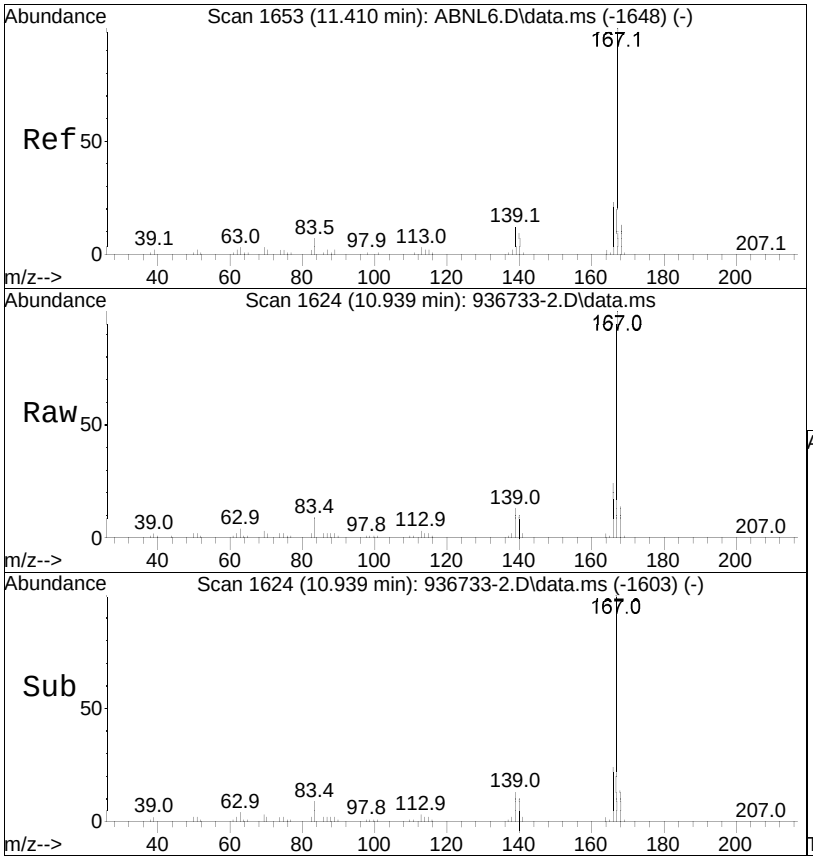


#86
Atrazine
Concen: 1.56 ug/ml
RT: 10.492 min Scan# 1548
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:200 Resp: 18151

Ion	Ratio	Lower	Upper
200	100		
202	32.1	25.8	38.6
215	43.7	40.2	60.4

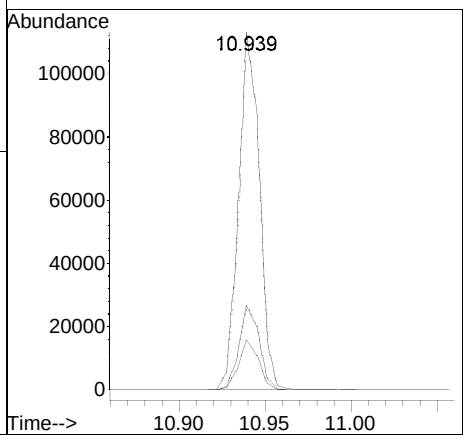


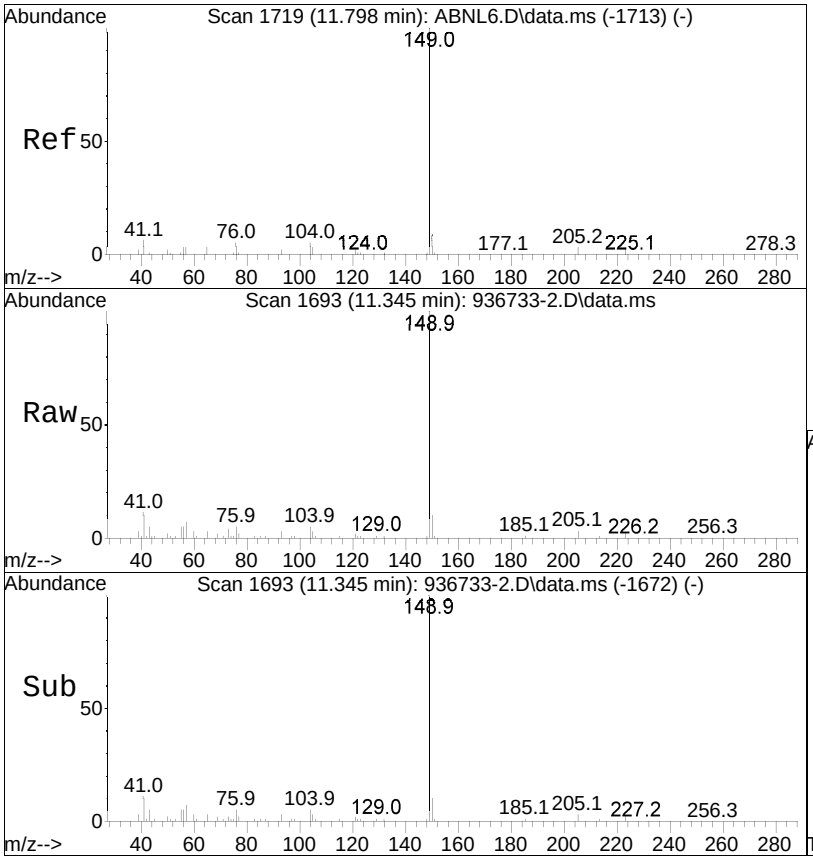


#90
Carbazole
Concen: 1.40 ug/ml
RT: 10.939 min Scan# 1624
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:167 Resp: 93814

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.2	17.4	26.0

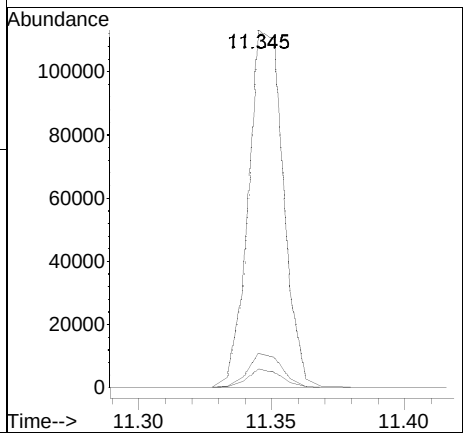


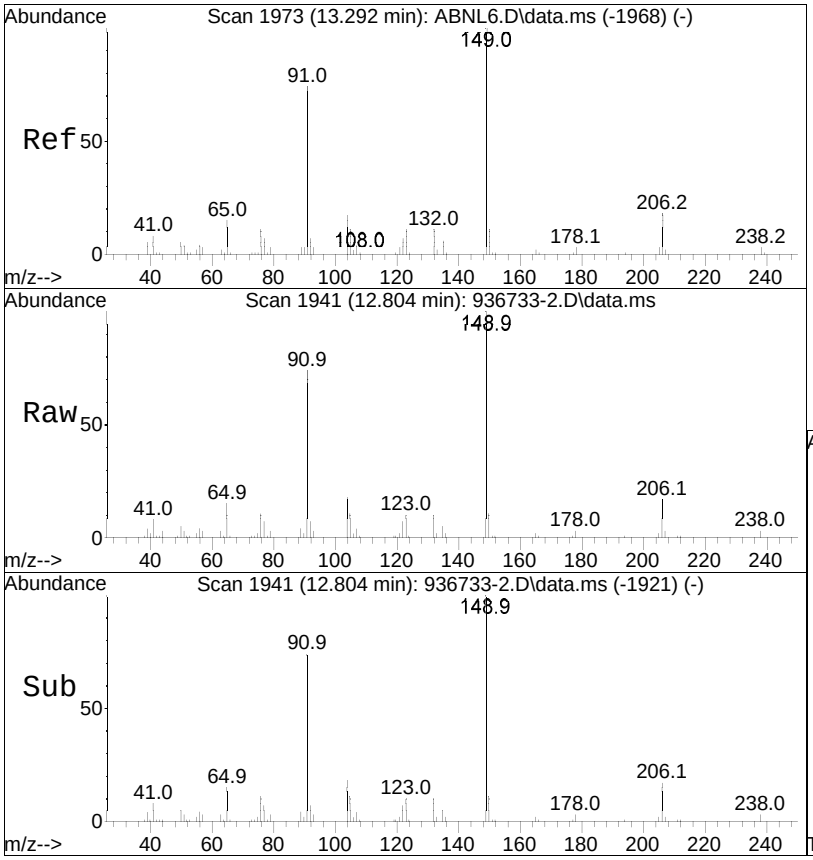


#91
Di-n-butylphthalate
Concen: 1.30 ug/ml
RT: 11.345 min Scan# 1693
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:149 Resp: 102266

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.0	4.5	6.7

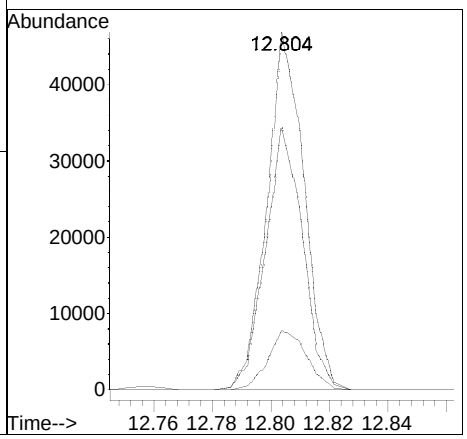


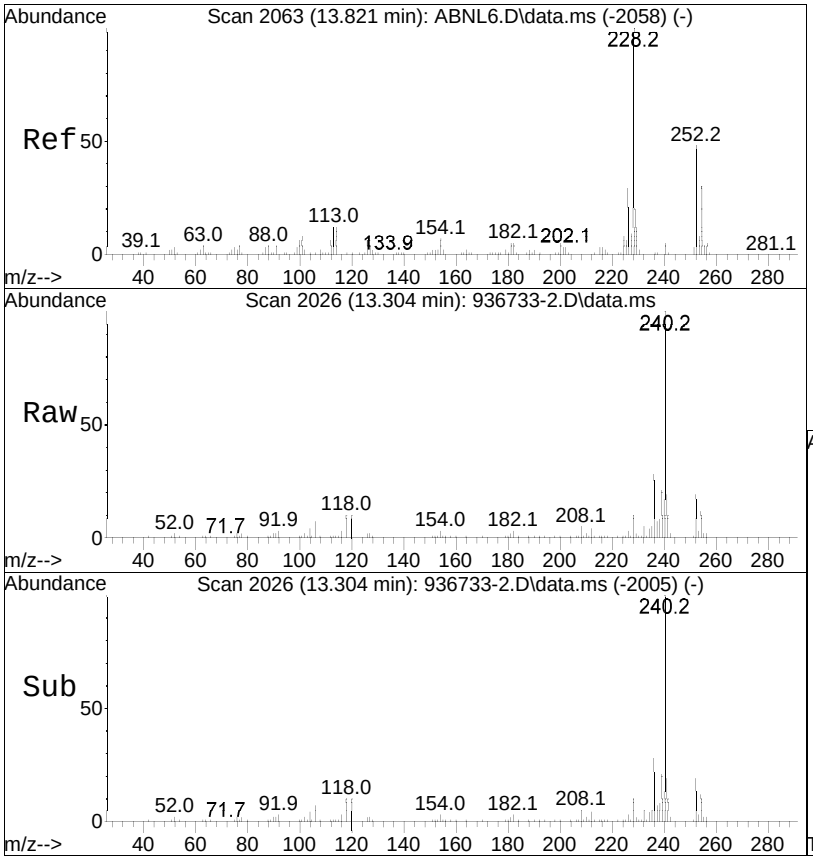


#96
Butyl benzyl phthalate
Concen: 1.41 ug/ml
RT: 12.804 min Scan# 1941
Delta R.T. -0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:149 Resp: 40872

Ion	Ratio	Lower	Upper
149	100		
91	73.4	63.3	94.9
206	17.3	13.9	20.9

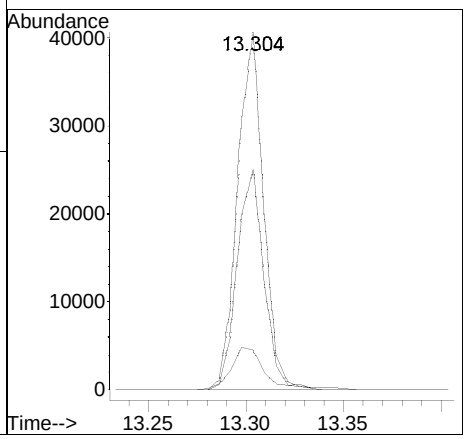


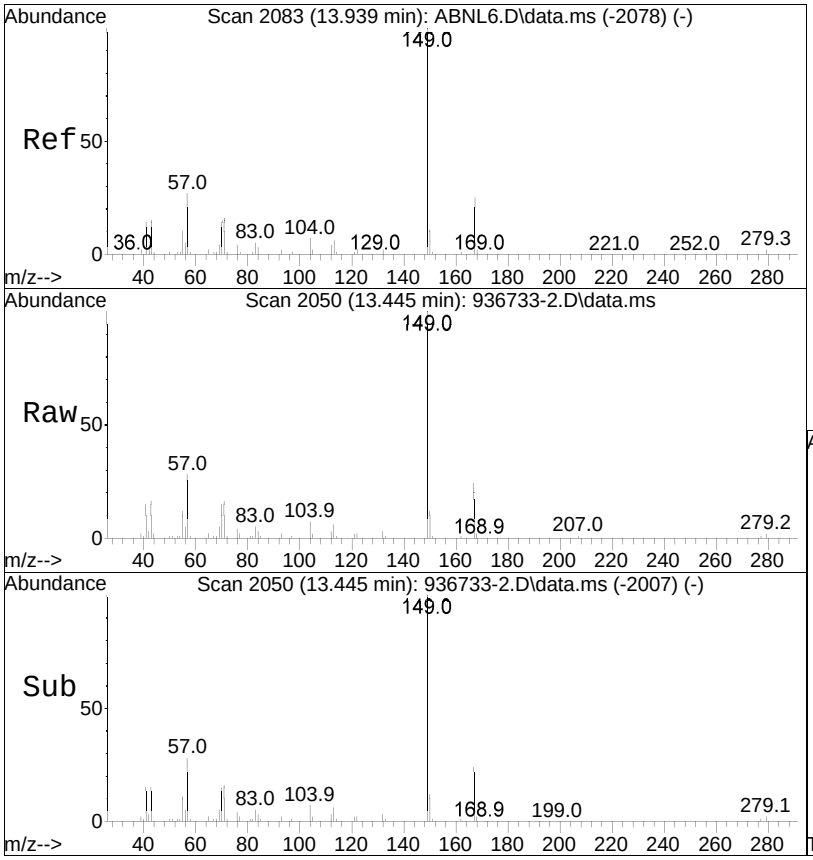


#105
3,3'-Dichlorobenzidine
Concen: 1.48 ug/ml
RT: 13.304 min Scan# 2026
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:252 Resp: 37432

Ion	Ratio	Lower	Upper
252	100		
126	15.2	14.5	21.7
254	63.3	51.2	76.8

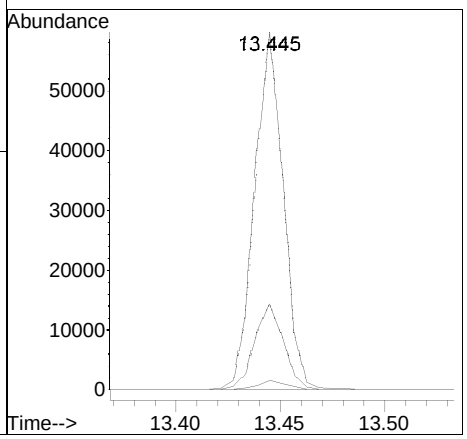


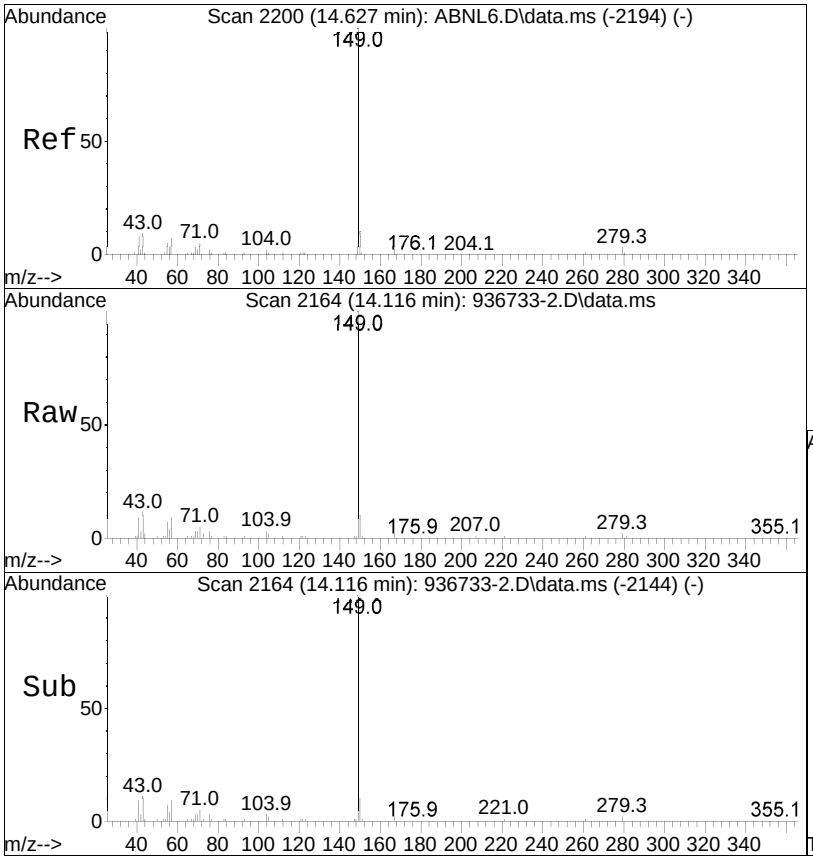


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.25 ug/ml
RT: 13.445 min Scan# 2050
Delta R.T. 0.000 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:149 Resp: 56456

Ion	Ratio	Lower	Upper
149	100		
167	24.3	22.1	33.1
279	2.3	3.0	4.4#

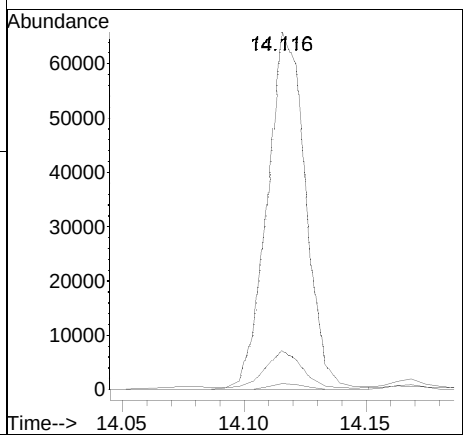




#108
Di-n-octylphthalate
Concen: 1.21 ug/ml
RT: 14.116 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 936733-2.D
Acq: 20 Jun 2024 2:28 pm

Tgt Ion:149 Resp: 71264

Ion	Ratio	Lower	Upper
149	100		
43	10.3	18.8	28.2#
167	1.3	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-2.D
Acq On : 21 Jun 2024 4:57 am
Operator : SV107:sz
Sample : WG1936908-2,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:42:31 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.954	152	63928	4.000	ug/ml	0.00
Standard Area 1 = 64707			Recovery = 98.80%			
27) IS2_1,4-Dichlorobenzen...	5.954	152	63928	4.000	ug/ml	0.00
Standard Area 3 = 64708			Recovery = 98.79%			
32) IS3_1,4-Dichlorobenzen...	5.954	152	63928	4.000	ug/ml	0.00
Standard Area 2 = 67896			Recovery = 94.16%			
34) IS1_Naphthalene-d8	7.442	136	235581	4.000	ug/ml	0.00
Standard Area 1 = 235755			Recovery = 99.93%			
54) IS2_Naphthalene-d8	7.442	136	235581	4.000	ug/ml	0.00
Standard Area 3 = 235329			Recovery = 100.11%			
62) IS1_Acenaphthene-d10	9.219	164	142287	4.000	ug/ml	0.00
Standard Area 1 = 141034			Recovery = 100.89%			
82) IS2_Acenaphthene-d10	9.219	164	142287	4.000	ug/ml	0.00
Standard Area 3 = 132909			Recovery = 107.06%			
85) IS3_Acenaphthene-d10	9.219	164	142287	4.000	ug/ml	0.00
Standard Area 2 = 134249			Recovery = 105.99%			
87) IS1_Phenanthrene-d10	10.648	188	283733	4.000	ug/ml	0.00
Standard Area 1 = 276864			Recovery = 102.48%			
99) IS3_Phenanthrene-d10	10.648	188	283733	4.000	ug/ml	0.00
Standard Area 2 = 271047			Recovery = 104.68%			
103) IS1_Chrysene-d12	13.248	240	224985	4.000	ug/ml	0.00
Standard Area 1 = 231677			Recovery = 97.11%			
112) IS1_Perylene-d12	14.689	264	229661	4.000	ug/ml	0.00
Standard Area 1 = 238143			Recovery = 96.44%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.595	112	12435	0.728	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 36.40%			
7) Phenol-d6	5.584	99	12738	0.603	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.15%			
19) Nitrobenzene-d5	6.654	82	14506	0.779	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.90%			
45) 2-Fluorobiphenyl	8.589	172	34289	0.672	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.20%			
78) 2,4,6-Tribromophenol	9.989	330	5126	0.845	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.25%			

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-2.D
Acq On : 21 Jun 2024 4:57 am
Operator : SV107:sz
Sample : WG1936908-2,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:42:31 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.230	244	36035	0.581	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 58.10%			
Target Compounds						Qvalue
6) 2-Chlorophenol	5.672	128	18378	0.976	ug/ml	97
8) Phenol	5.601	94	14231	0.619	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.383	45	39919	1.539	ug/ml#	56
15) 2-Methylphenol	6.389	108	19748	1.199	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.542	70	20346	1.448	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.589	108	21248	1.226	ug/ml#	55
20) Nitrobenzene	6.678	77	28639	1.497	ug/ml	94
21) Isophorone	6.972	82	49445	1.339	ug/ml	95
22) 2-Nitrophenol	7.048	139	8311	0.975	ug/ml#	96
23) 2,4-Dimethylphenol	7.172	107	20482	1.178	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.266	93	34465	1.430	ug/ml#	96
25) 2,4-Dichlorophenol	7.325	162	17049	0.975	ug/ml	94
28) Benzaldehyde	5.319	105	21266	1.300	ug/ml	100
29) Acetophenone	6.495	105	39339	1.391	ug/ml#	87
37) 4-Chloroaniline	7.560	65	8643	1.168	ug/ml	97
39) p-Chloro-m-cresol	8.107	107	19443	1.212	ug/ml	99
42) Hexachlorocyclopentadiene	8.377	237	11972	0.991	ug/ml	99
43) 2,4,6-Trichlorophenol	8.501	196	13002	0.932	ug/ml	99
44) 2,4,5-Trichlorophenol	8.530	196	13418	0.907	ug/ml	97
47) 2-Nitroaniline	8.795	138	13537	1.328	ug/ml	92
50) Dimethyl phthalate	9.013	163	64729	1.310	ug/ml#	98
52) 2,6-Dinitrotoluene	9.048	165	11698	1.302	ug/ml	91
59) Caprolactam	7.878	55	4596	0.523	ug/ml#	72
60) 1,2,4,5-Tetrachloroben...	8.372	216	27431	1.159	ug/ml	98
61) Biphenyl	8.677	154	68514	1.252	ug/ml	100
63) 3-Nitroaniline	9.201	138	12512	1.356	ug/ml#	88
65) 2,4-Dinitrophenol	9.301	184	836	1.088	ug/ml#	63
66) Dibenzofuran	9.419	168	81978	1.312	ug/ml	99
67) 2,4-Dinitrotoluene	9.436	165	15128	1.394	ug/ml#	86
68) 4-Nitrophenol	9.407	65	4609	0.585	ug/ml#	1
71) Diethyl phthalate	9.707	149	62394	1.348	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.783	204	31309	1.310	ug/ml	90
74) 4-Nitroaniline	9.789	138	11818	1.266	ug/ml#	89

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-2.D
Acq On : 21 Jun 2024 4:57 am
Operator : SV107:sz
Sample : WG1936908-2,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:42:31 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	9.824	198	4231	1.067	ug/ml#	70
76)	NDPA/DPA	9.901	169	53350	1.326	ug/ml	94
79)	4-Bromophenyl phenyl e...	10.248	248	16409	1.226	ug/ml#	89
86)	Atrazine	10.448	200	15868	1.285	ug/ml	93
90)	Carbazole	10.895	167	84782	1.288	ug/ml	98
91)	Di-n-butylphthalate	11.301	149	93210	1.208	ug/ml	98
96)	Butyl benzyl phthalate	12.760	149	37546	1.341	ug/ml	95
105)	3,3'-Dichlorobenzidine	13.254	252	31428	1.300	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.395	149	54688	1.269	ug/ml#	94
108)	Di-n-octylphthalate	14.065	149	78050	1.328	ug/ml#	75

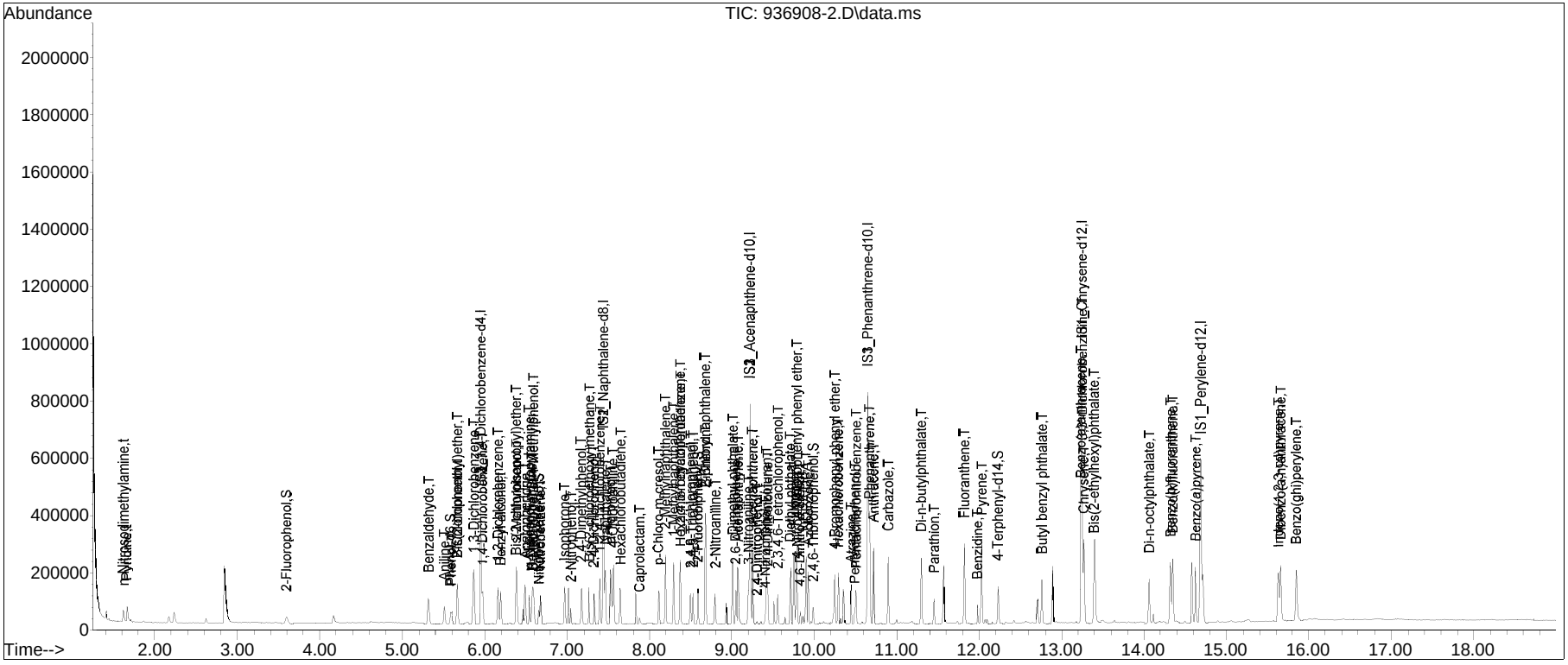
(#) = qualifier out of range (m) = manual integration (+) = signals summed

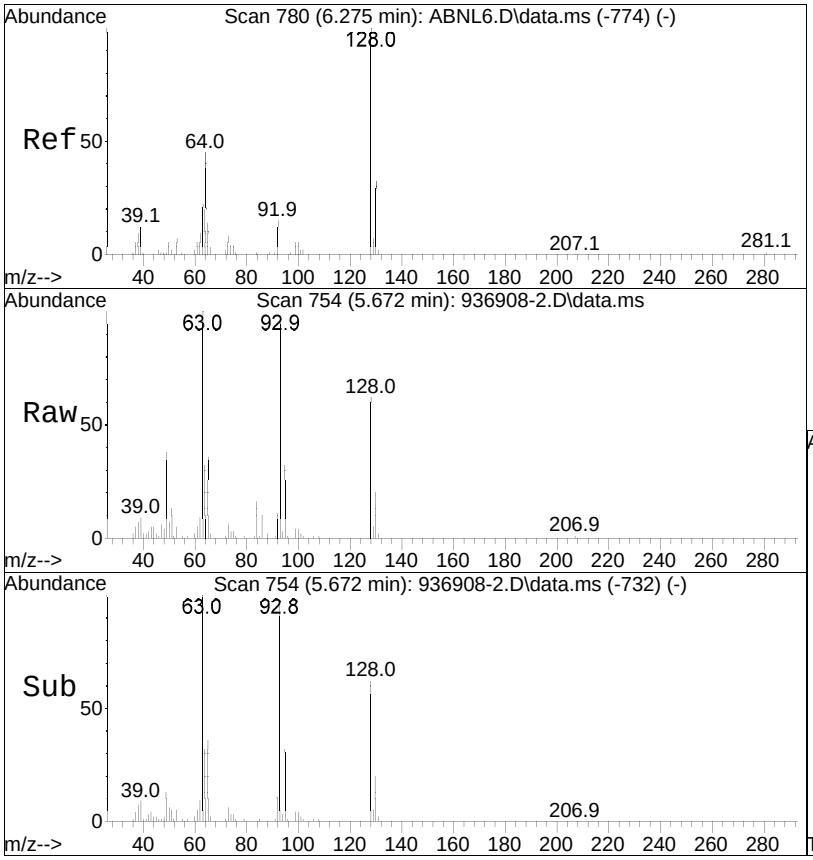
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-2.D
Acq On : 21 Jun 2024 4:57 am
Operator : SV107:sz
Sample : WG1936908-2,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:42:31 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP90620n.D•

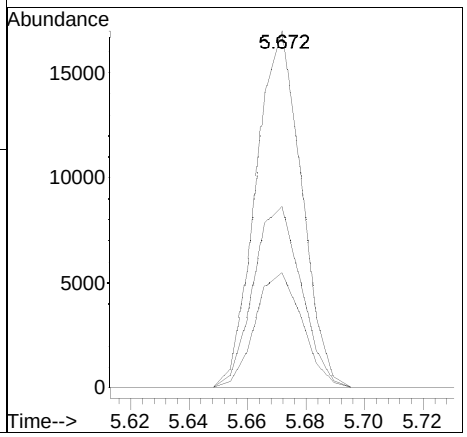


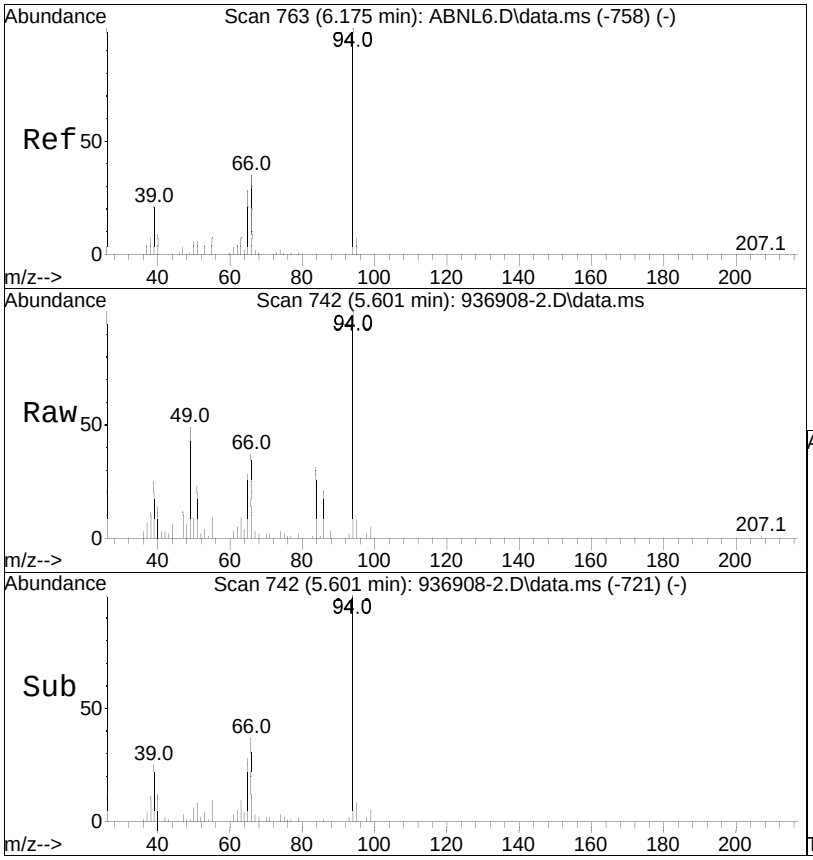


#6
2-Chlorophenol
Concen: 0.98 ug/ml
RT: 5.672 min Scan# 754
Delta R.T. 0.006 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:128 Resp: 18378

Ion	Ratio	Lower	Upper
128	100		
64	53.4	45.1	67.7
130	33.4	26.2	39.4

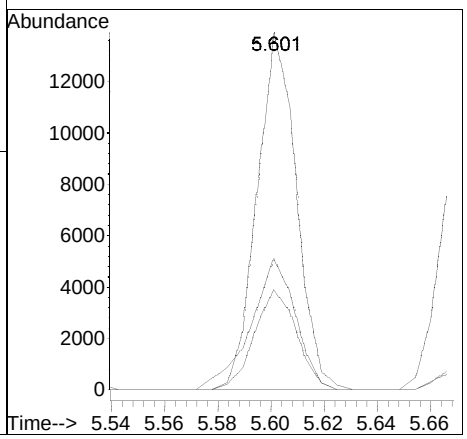


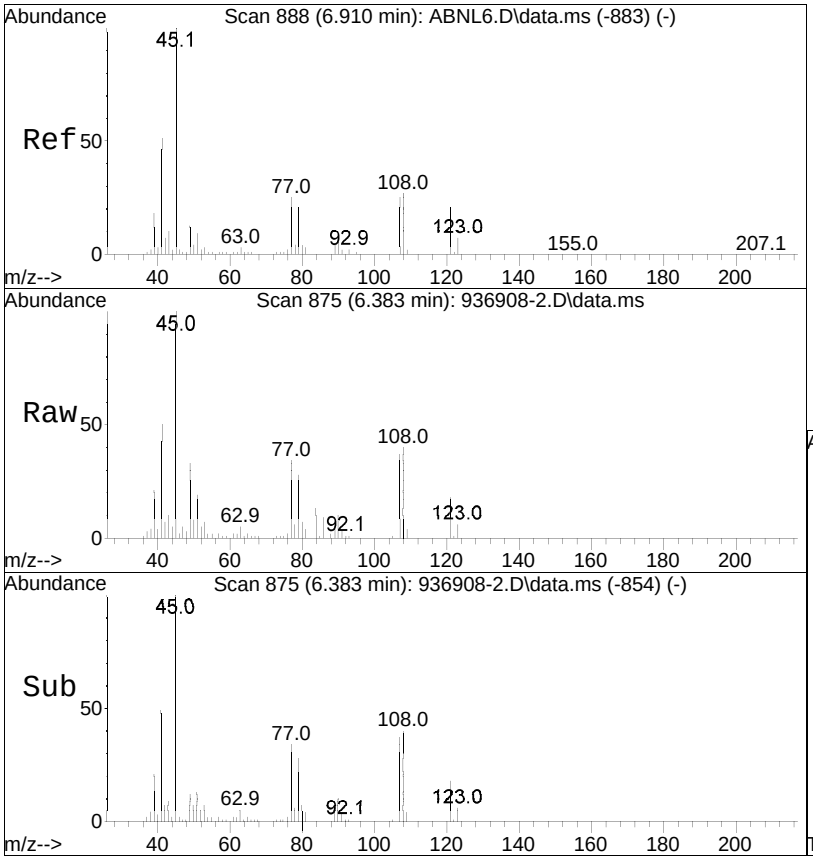


#8
Phenol
Concen: 0.62 ug/ml
RT: 5.601 min Scan# 742
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 94 Resp: 14231

Ion	Ratio	Lower	Upper
94	100		
65	30.1	26.0	39.0
66	42.0	33.8	50.8

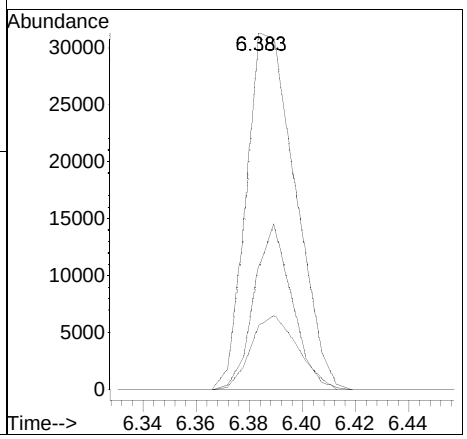


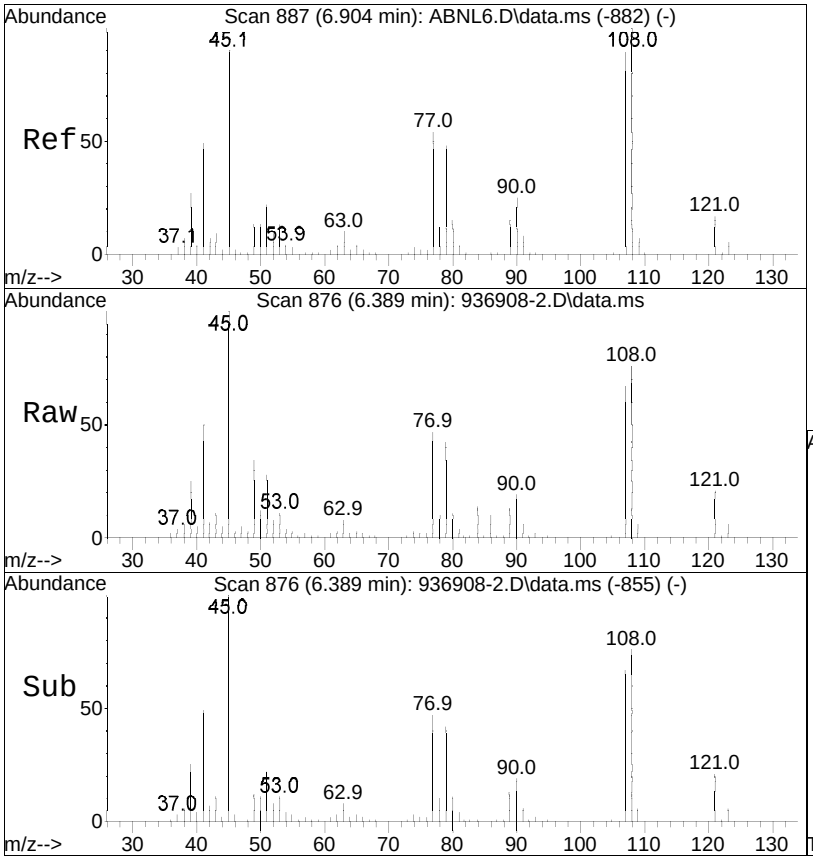


#14
Bis(2-chloroisopropyl)ether
Concen: 1.54 ug/ml
RT: 6.383 min Scan# 875
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 45 Resp: 39919

Ion	Ratio	Lower	Upper
45	100		
121	20.1	9.8	14.6#
77	36.1	6.1	9.1#

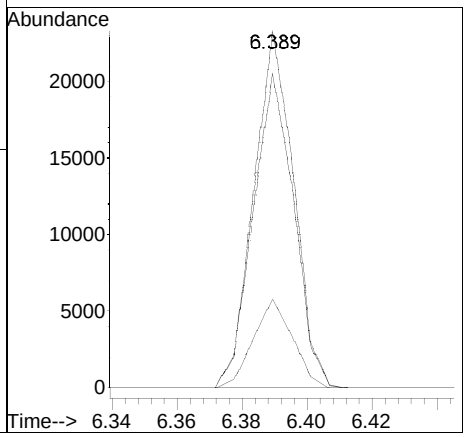


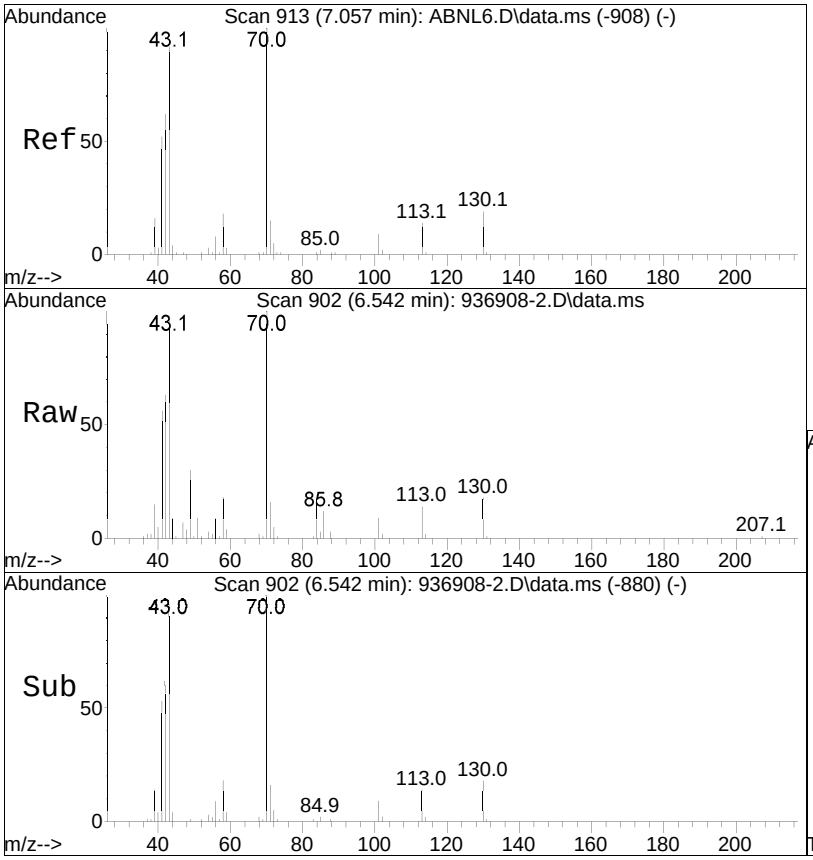


#15
2-Methylphenol
Concen: 1.20 ug/ml
RT: 6.389 min Scan# 876
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:108 Resp: 19748

Ion	Ratio	Lower	Upper
108	100		
107	90.1	70.7	106.1
90	24.4	18.7	28.1

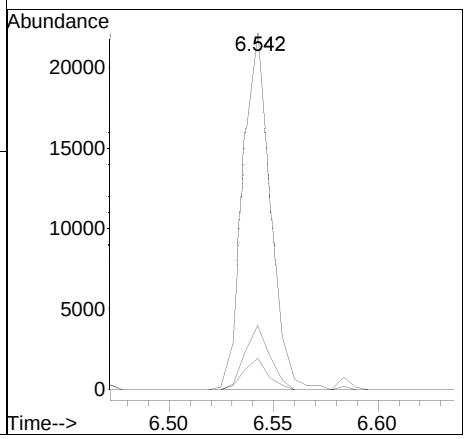


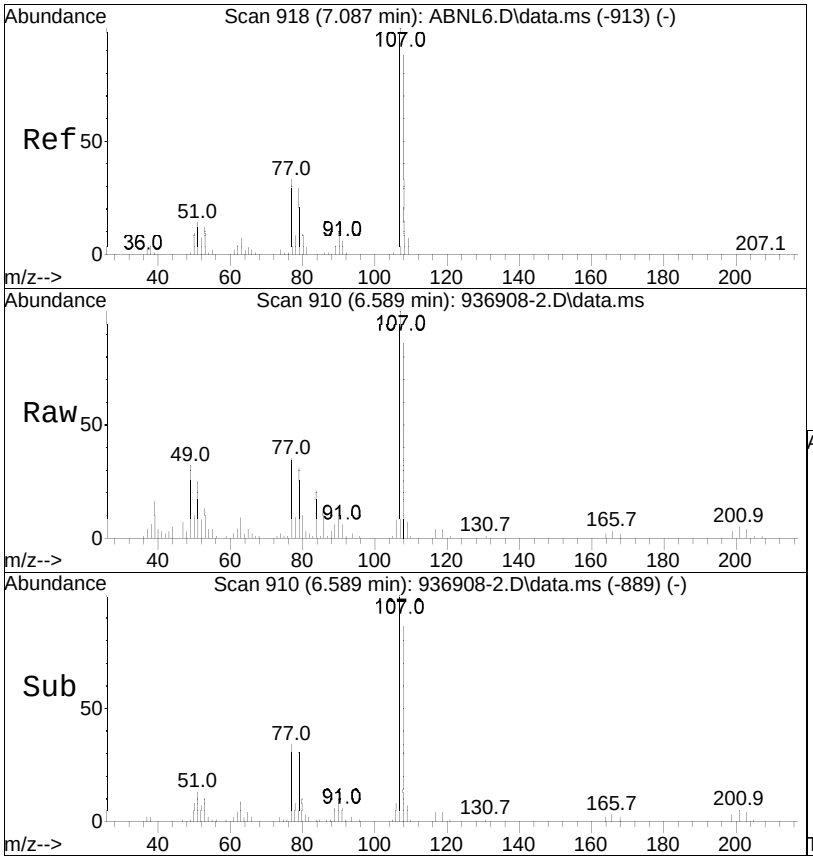


#17
n-Nitrosodi-n-propylamine
Concen: 1.45 ug/ml
RT: 6.542 min Scan# 902
Delta R.T. 0.006 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 70 Resp: 20346

Ion	Ratio	Lower	Upper
70	100		
130	16.2	18.2	27.4#
101	7.8	7.8	11.8#

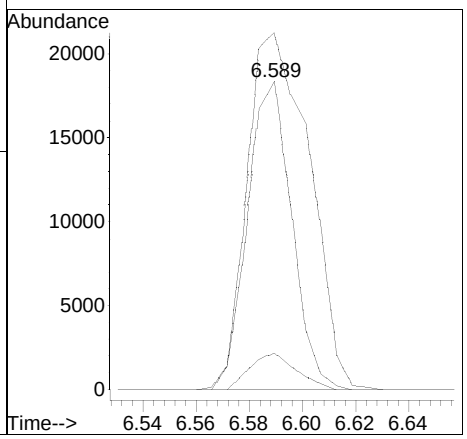


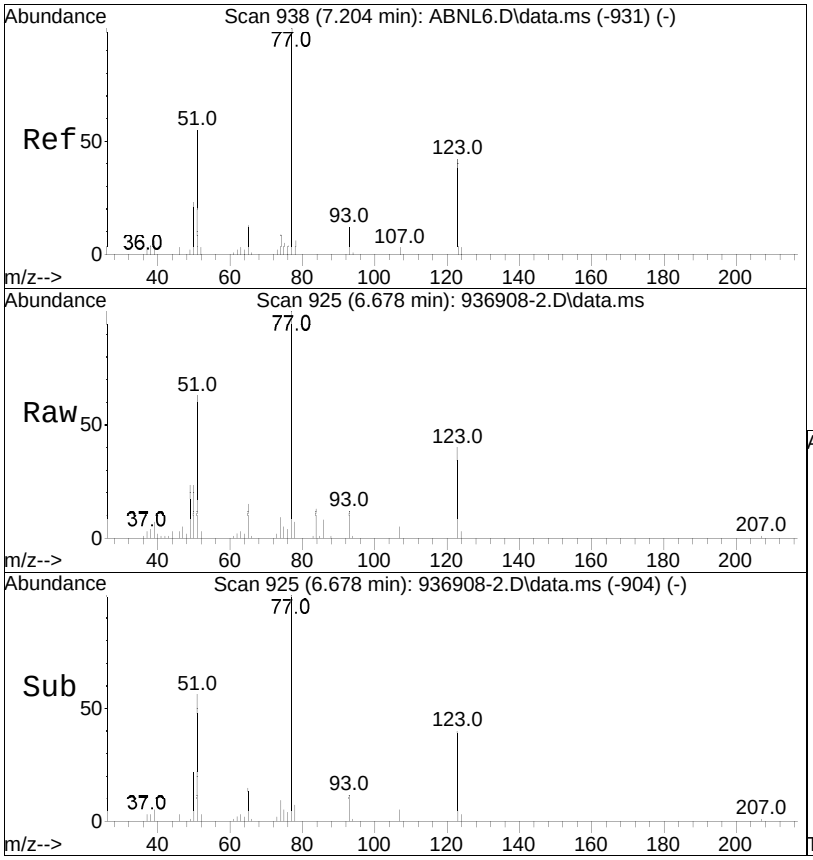


#18
3-Methylphenol/4-Methylphenol
Concen: 1.23 ug/ml
RT: 6.589 min Scan# 910
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:108 Resp: 21248

Ion	Ratio	Lower	Upper
108	100		
107	162.6	88.6	132.8#
90	12.5	8.8	13.2

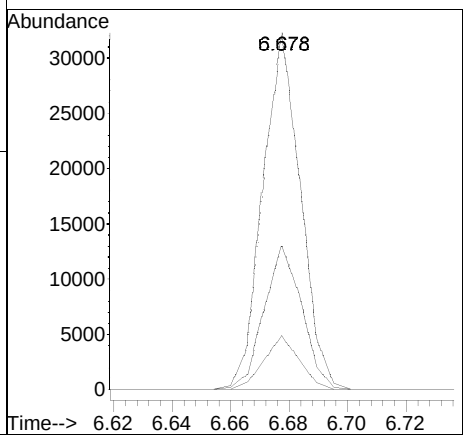


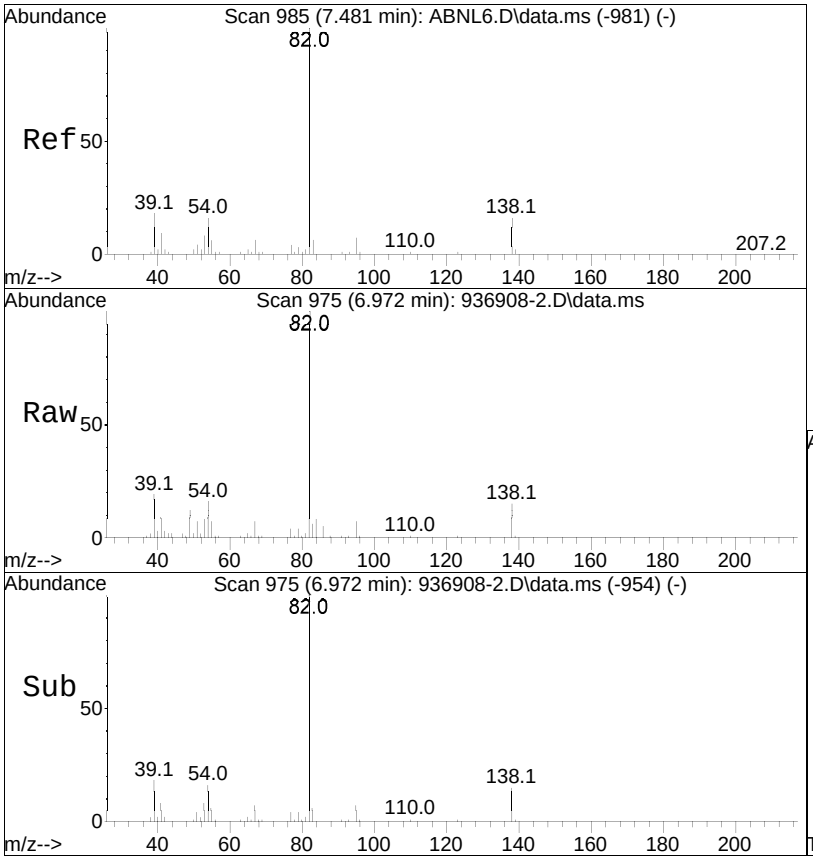


#20
Nitrobenzene
Concen: 1.50 ug/ml
RT: 6.678 min Scan# 925
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 77 Resp: 28639

Ion	Ratio	Lower	Upper
77	100		
123	40.7	36.3	54.5
65	14.3	11.6	17.4

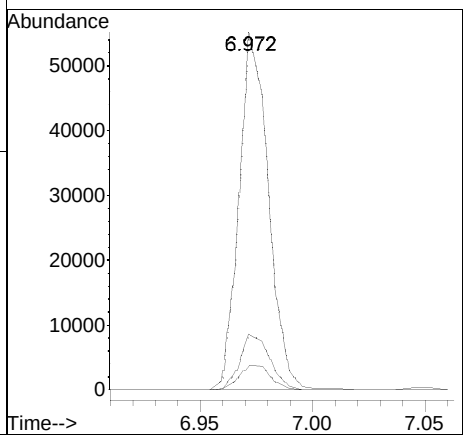


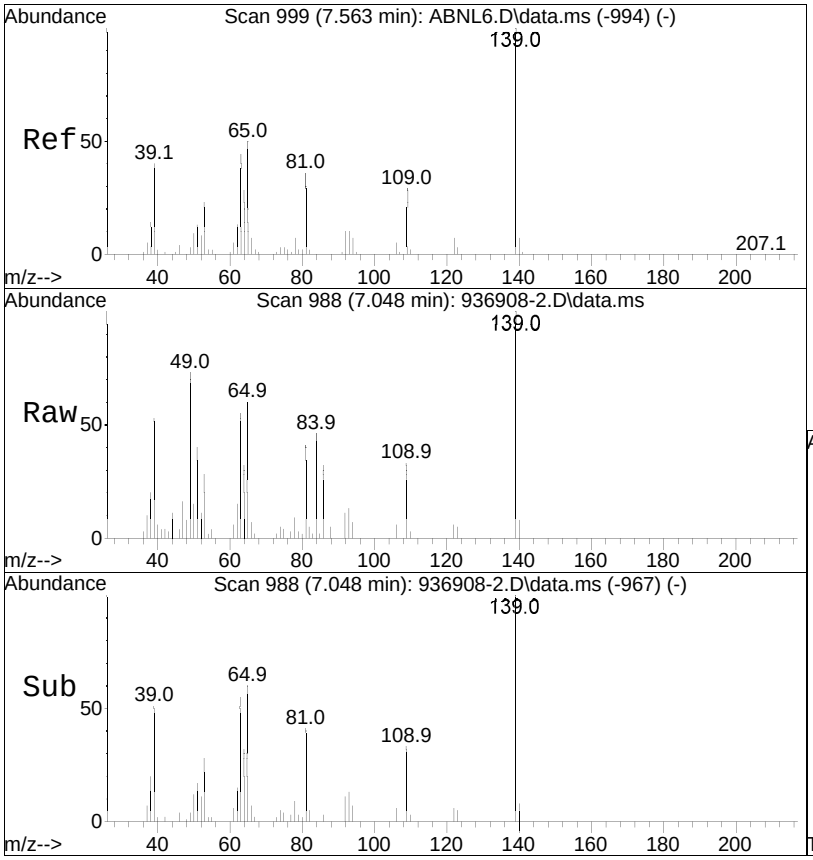


#21
Isophorone
Concen: 1.34 ug/ml
RT: 6.972 min Scan# 975
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 82 Resp: 49445

Ion	Ratio	Lower	Upper
82	100		
138	15.9	14.7	22.1
95	7.4	5.2	7.8

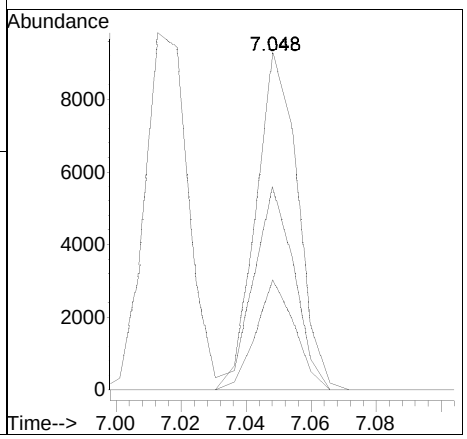


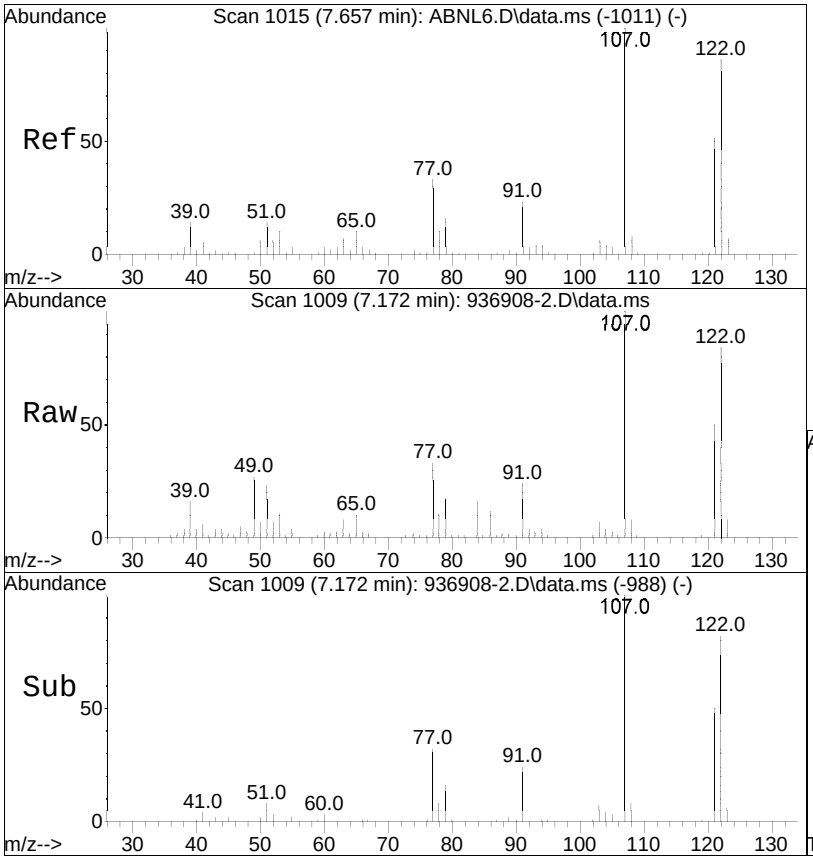


#22
2-Nitrophenol
Concen: 0.98 ug/ml
RT: 7.048 min Scan# 988
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:139 Resp: 8311

Ion	Ratio	Lower	Upper
139	100		
109	30.2	19.4	29.0#
65	58.2	46.1	69.1

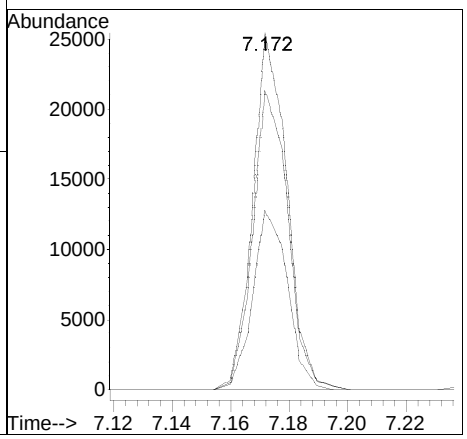


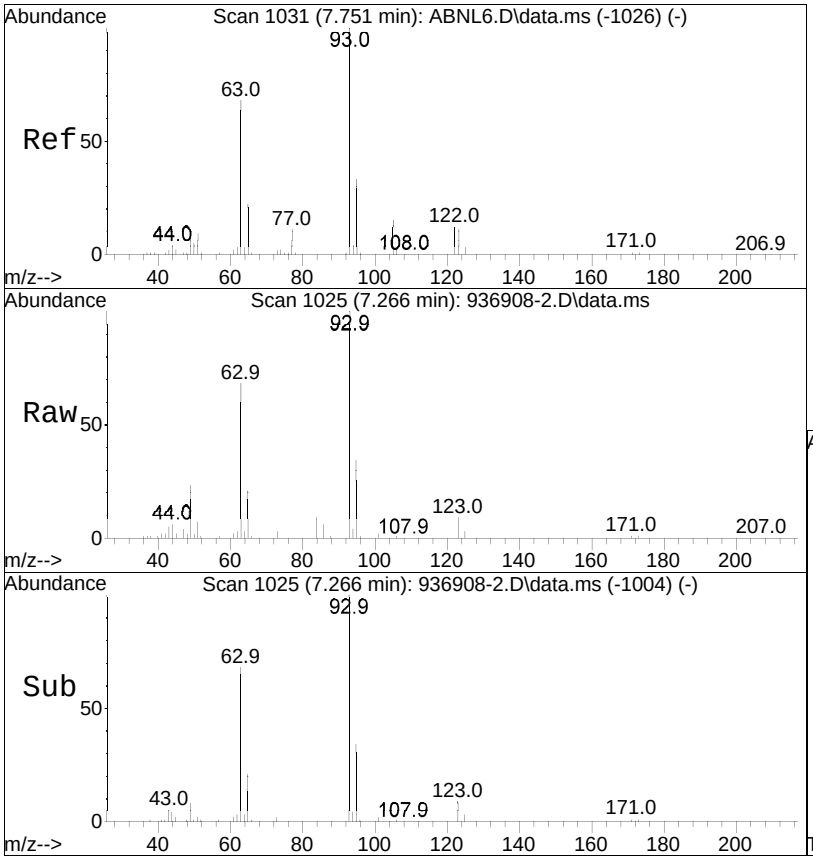


#23
2,4-Dimethylphenol
Concen: 1.18 ug/ml
RT: 7.172 min Scan# 1009
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:107 Resp: 20482

Ion	Ratio	Lower	Upper
107	100		
121	51.5	40.0	60.0
122	86.2	70.2	105.4

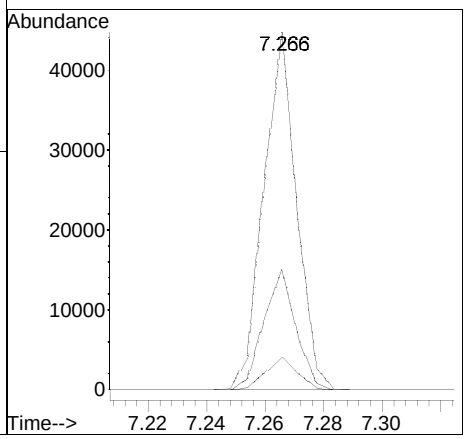


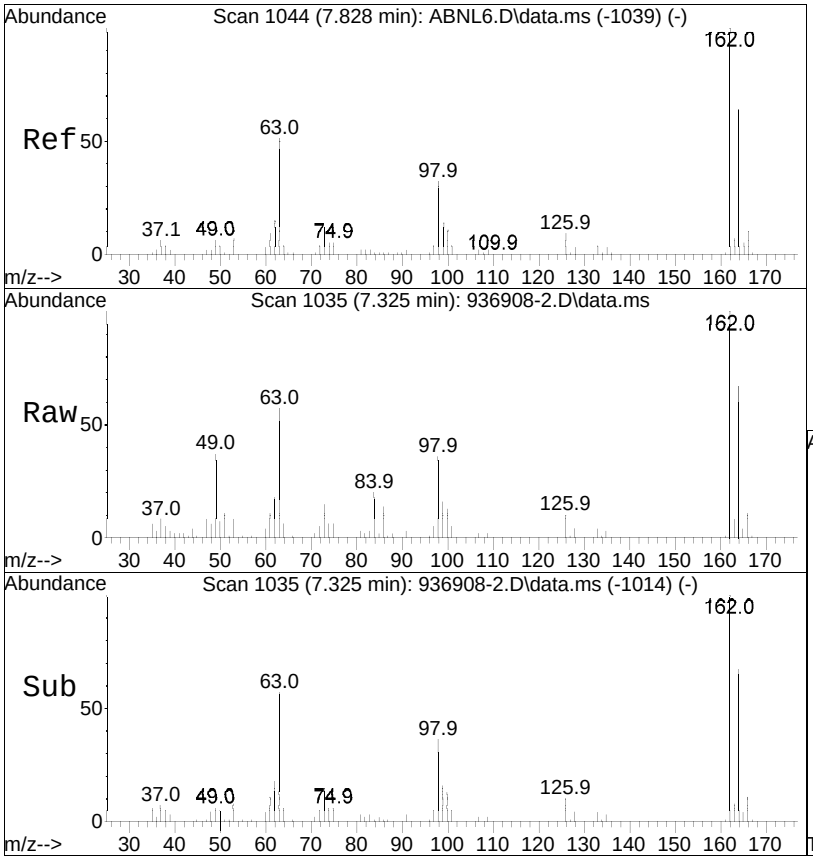


#24
Bis(2-chloroethoxy)methane
Concen: 1.43 ug/ml
RT: 7.266 min Scan# 1025
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 93 Resp: 34465

Ion	Ratio	Lower	Upper
93	100		
95	33.2	25.8	38.8
123	9.0	10.1	15.1#

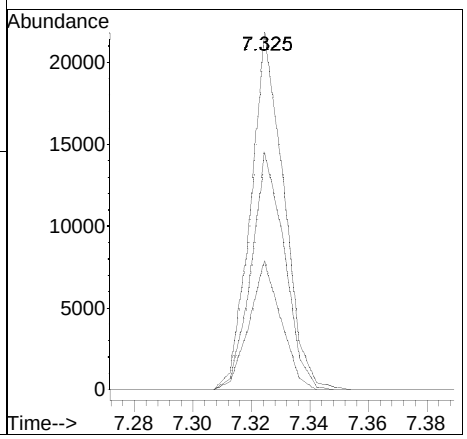


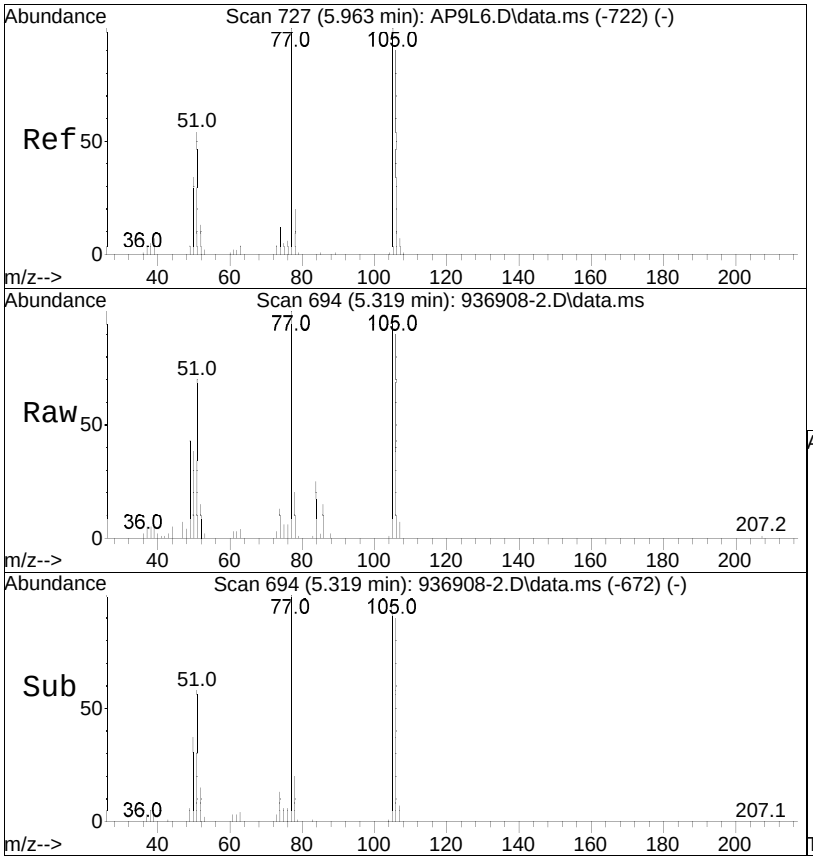


#25
2,4-Dichlorophenol
Concen: 0.98 ug/ml
RT: 7.325 min Scan# 1035
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:162 Resp: 17049

Ion	Ratio	Lower	Upper
162	100		
164	66.7	51.0	76.4
98	34.8	32.2	48.2

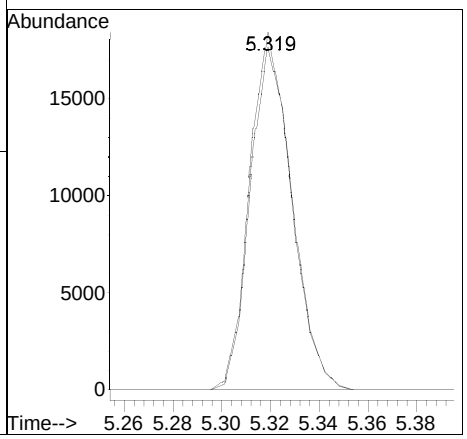


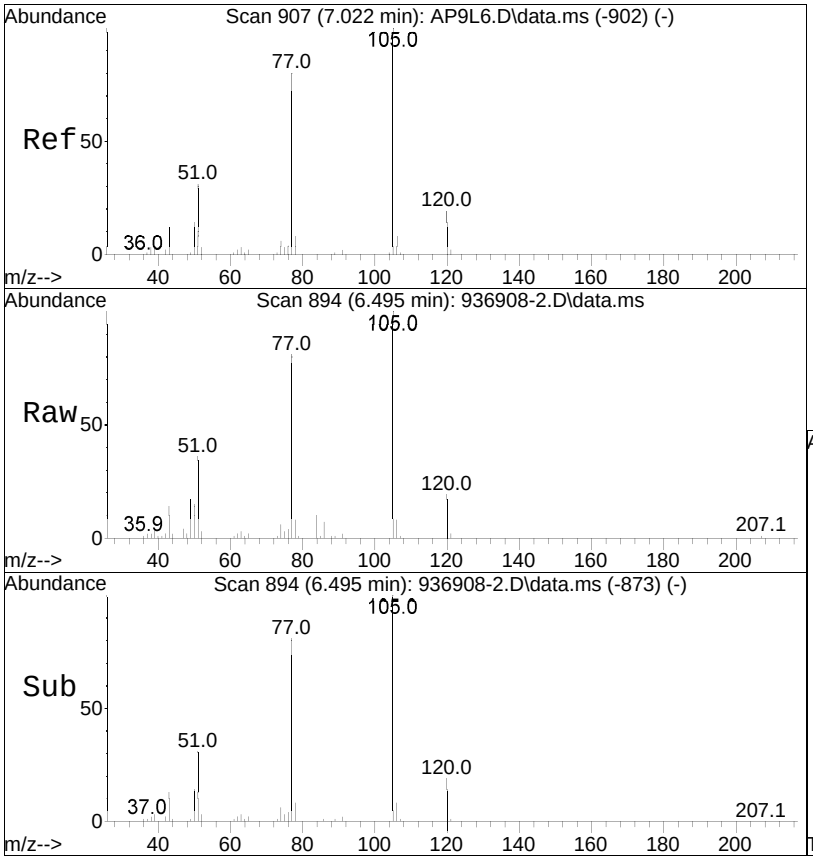


#28
Benzaldehyde
Concen: 1.30 ug/ml
RT: 5.319 min Scan# 694
Delta R.T. 0.006 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:105 Resp: 21266

Ion	Ratio	Lower	Upper
105	100		
77	102.9	82.2	123.4

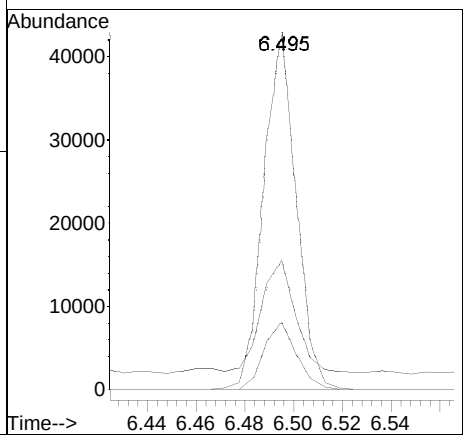


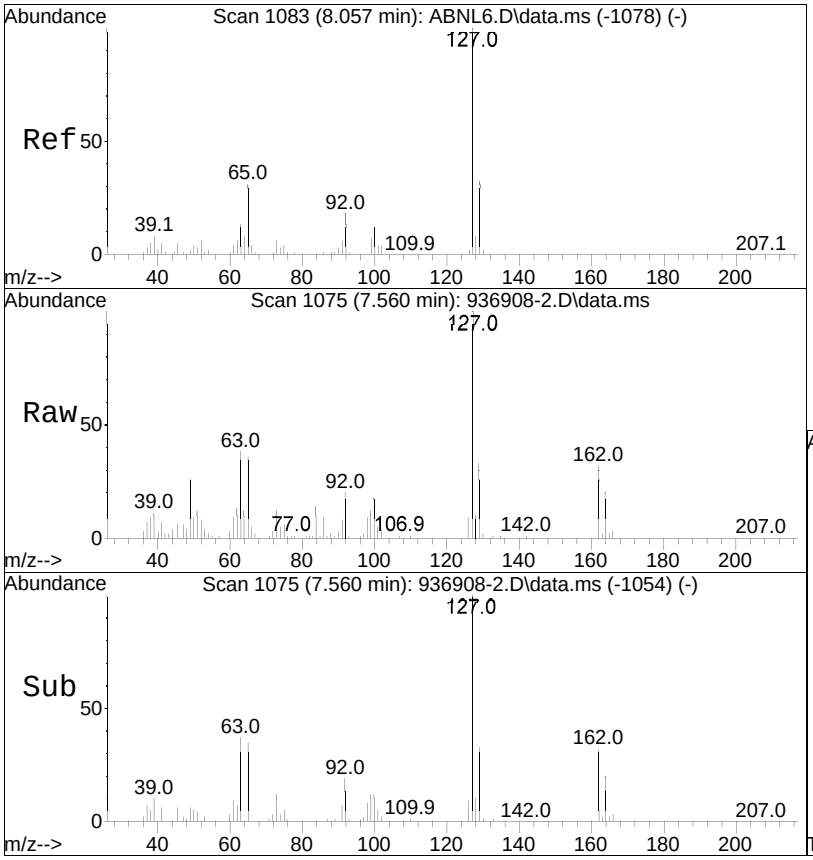


#29
Acetophenone
Concen: 1.39 ug/ml
RT: 6.495 min Scan# 894
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:105 Resp: 39339

Ion	Ratio	Lower	Upper
105	100		
120	19.0	20.5	30.7#
51	35.4	34.9	52.3

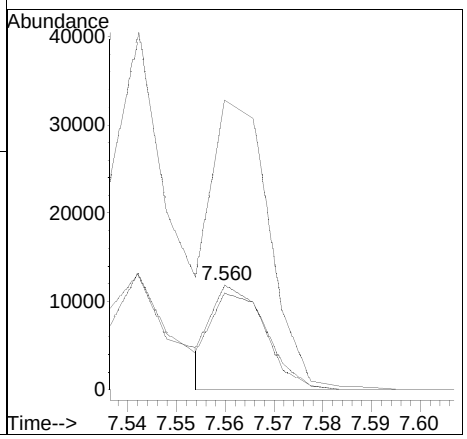


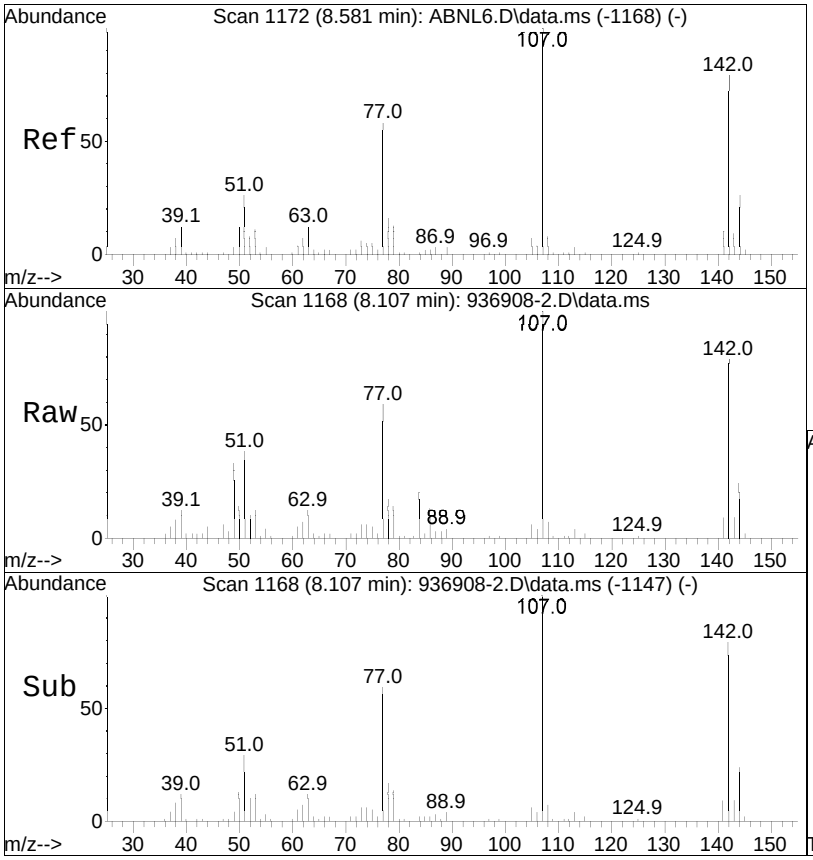


#37
4-Chloroaniline
Concen: 1.17 ug/ml
RT: 7.560 min Scan# 1075
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 65 Resp: 8643

Ion	Ratio	Lower	Upper
65	100		
127	301.7	237.6	356.4
129	98.8	76.3	114.5

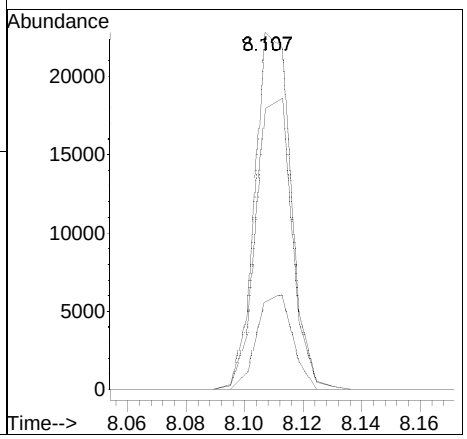


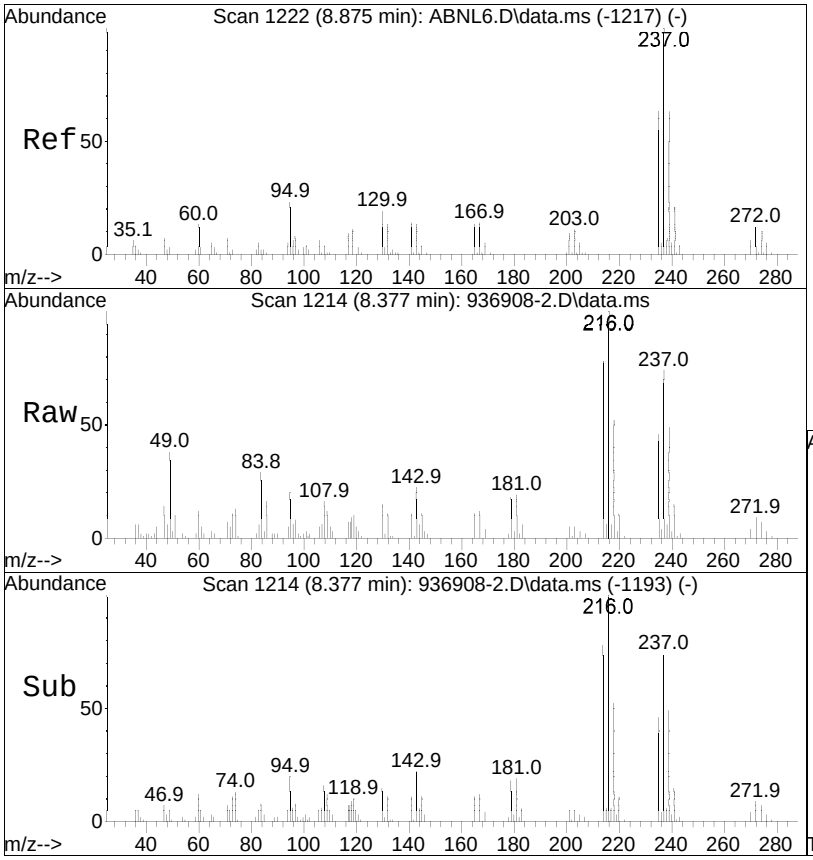


#39
p-Chloro-m-cresol
Concen: 1.21 ug/ml
RT: 8.107 min Scan# 1168
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:107 Resp: 19443

Ion	Ratio	Lower	Upper
107	100		
144	26.4	20.9	31.3
142	82.0	66.1	99.1

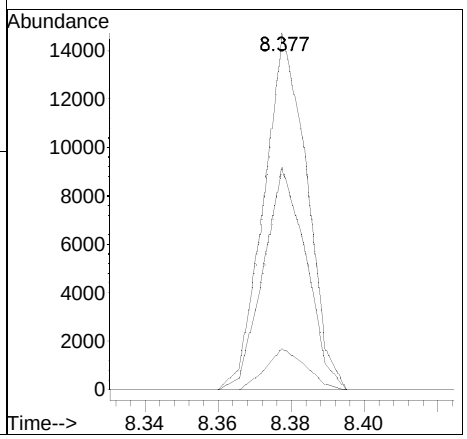


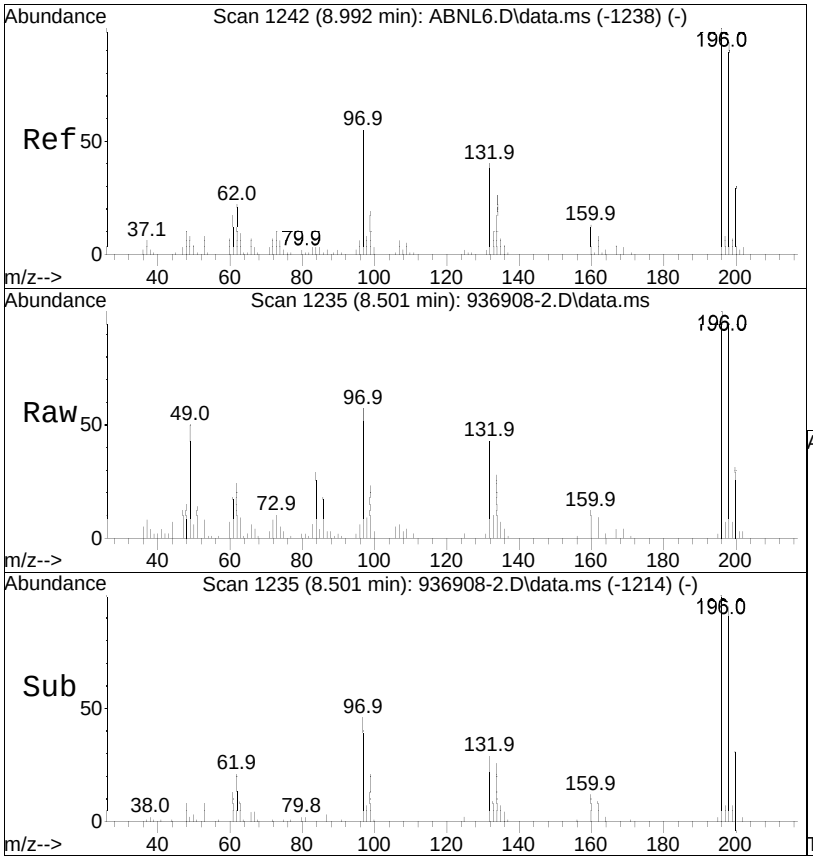


#42
Hexachlorocyclopentadiene
Concen: 0.99 ug/ml
RT: 8.377 min Scan# 1214
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:237 Resp: 11972

Ion	Ratio	Lower	Upper
237	100		
235	62.3	49.7	74.5
272	10.9	9.8	14.6

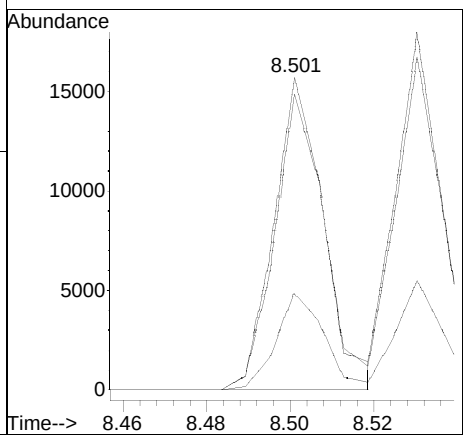


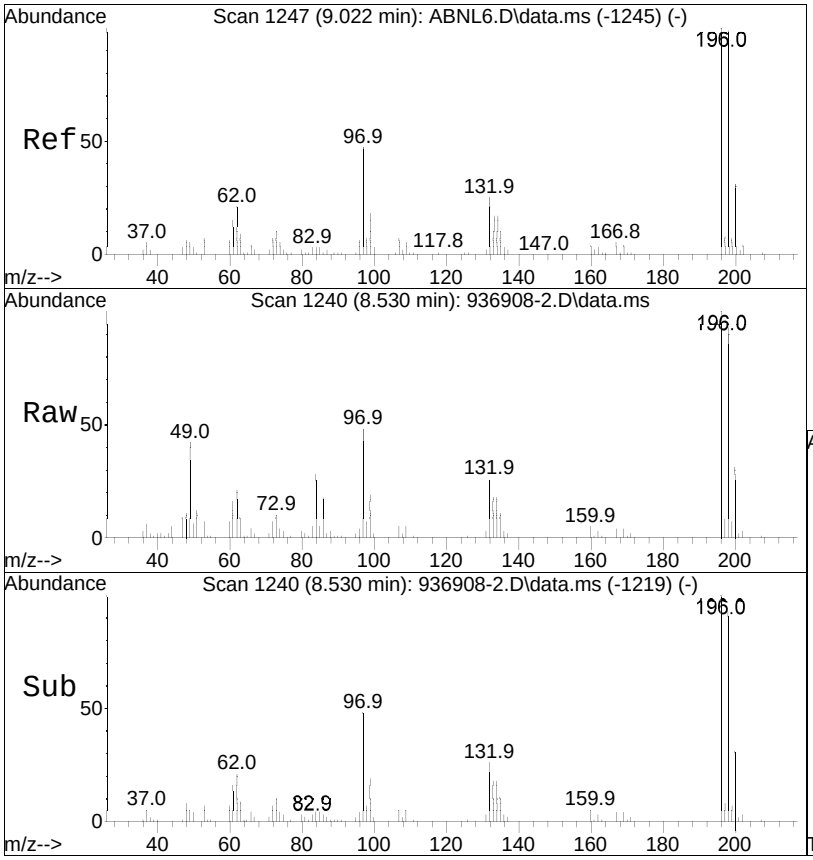


#43
2,4,6-Trichlorophenol
Concen: 0.93 ug/ml
RT: 8.501 min Scan# 1235
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:196 Resp: 13002

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.5	116.3
200	30.2	23.8	35.6

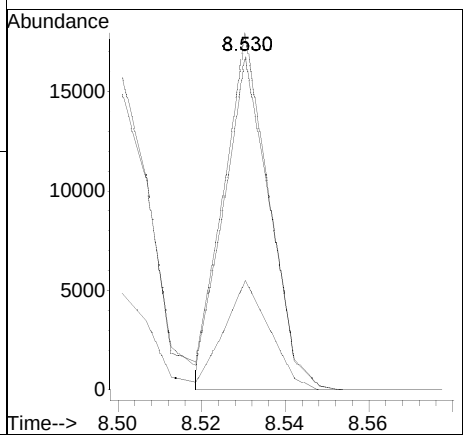


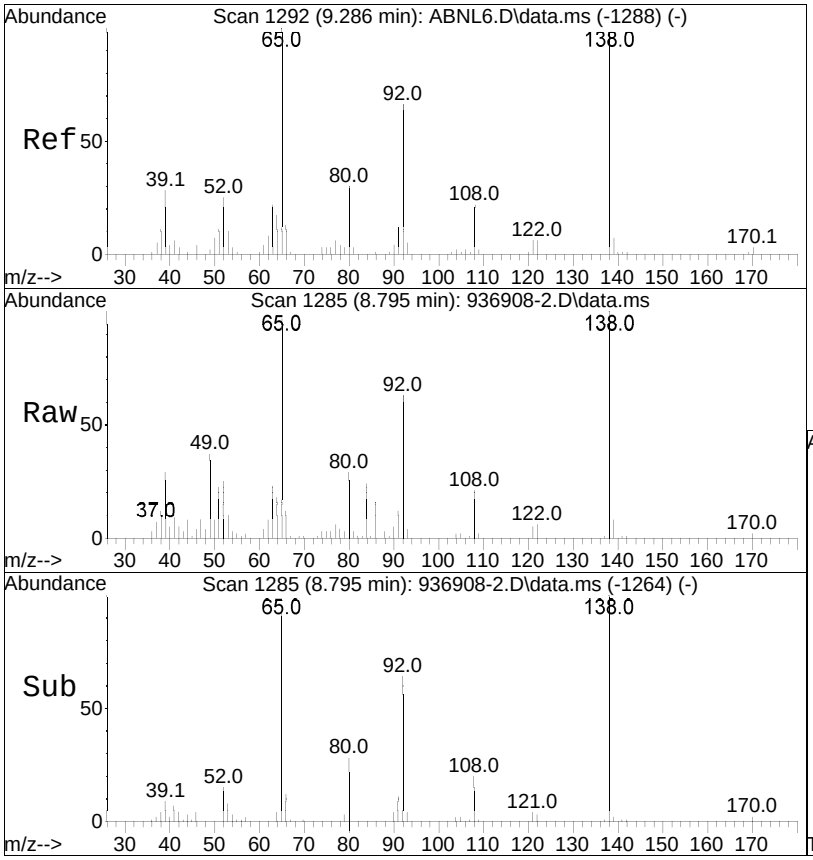


#44
2,4,5-Trichlorophenol
Concen: 0.91 ug/ml
RT: 8.530 min Scan# 1240
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:196 Resp: 13418

Ion	Ratio	Lower	Upper
196	100		
200	30.8	25.4	38.0
198	94.4	78.0	117.0

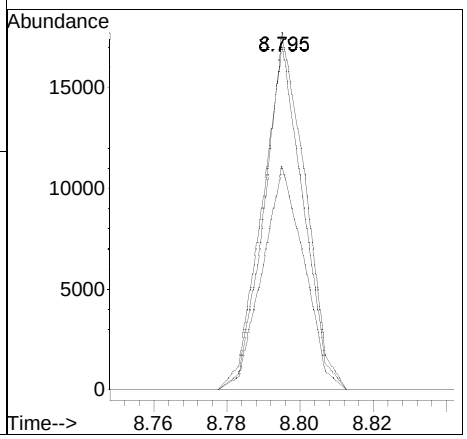


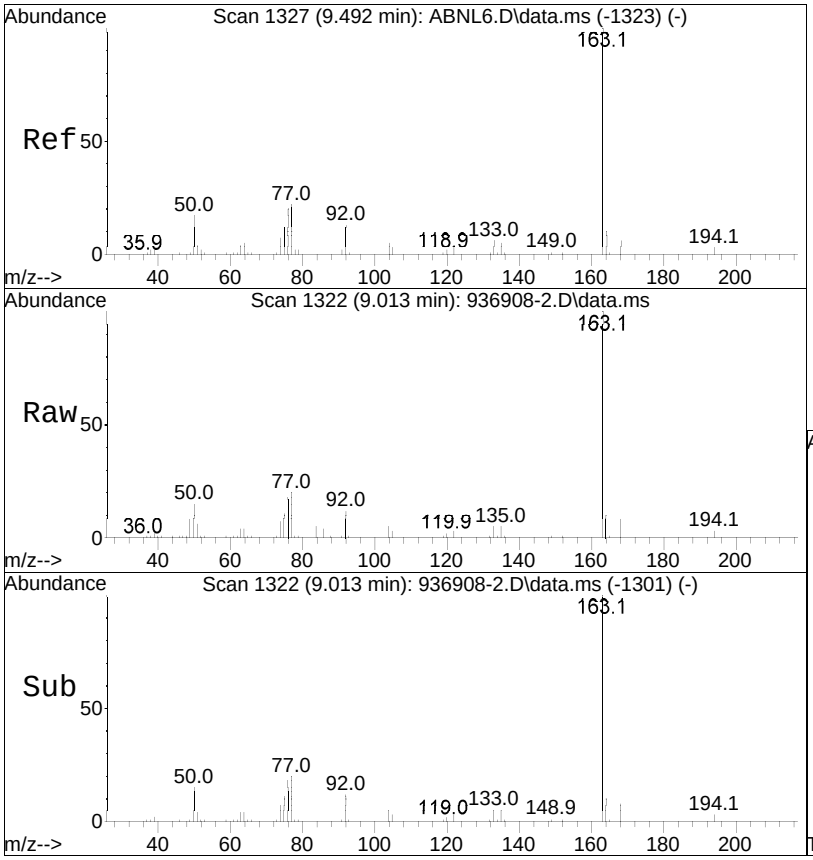


#47
2-Nitroaniline
Concen: 1.33 ug/ml
RT: 8.795 min Scan# 1285
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:138 Resp: 13537

Ion	Ratio	Lower	Upper
138	100		
92	64.6	53.5	80.3
65	97.0	86.3	129.5

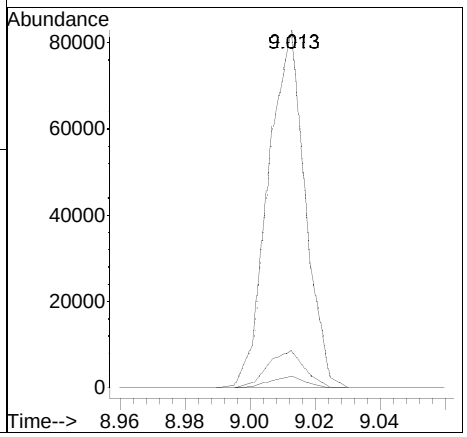


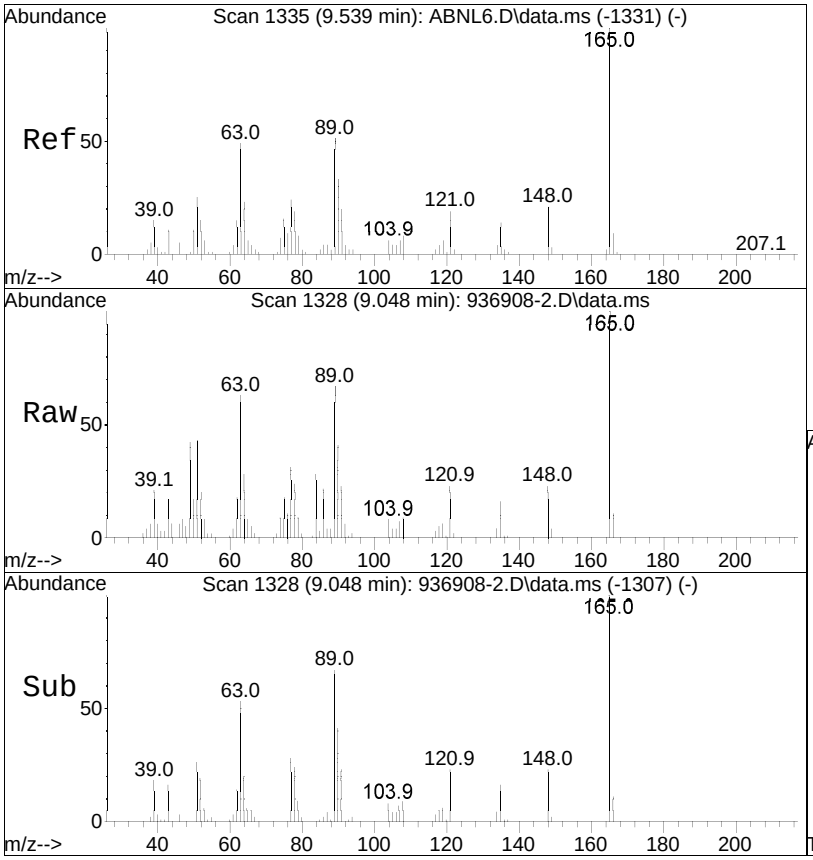


#50
Dimethyl phthalate
Concen: 1.31 ug/ml
RT: 9.013 min Scan# 1322
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:163 Resp: 64729

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.5	7.9	11.9

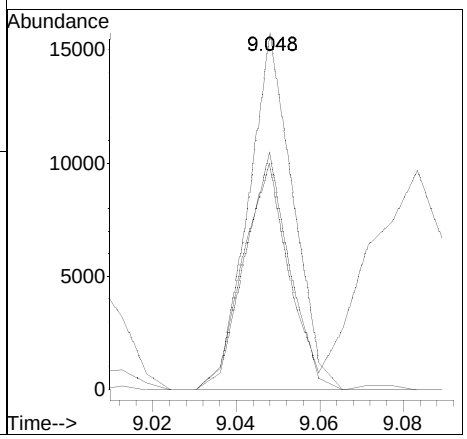


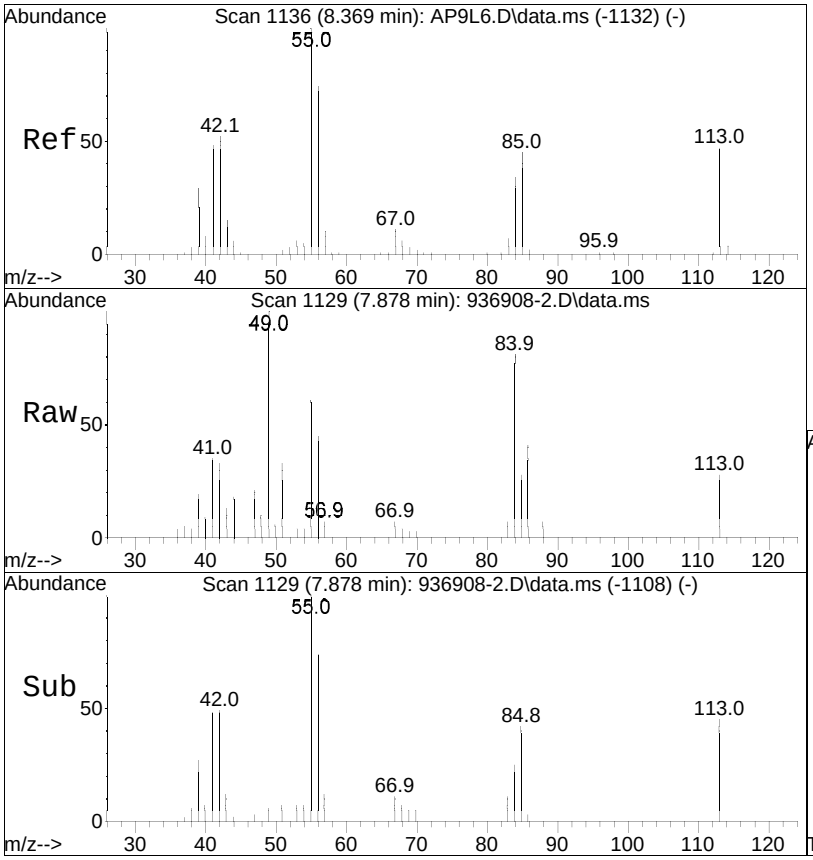


#52
2,6-Dinitrotoluene
Concen: 1.30 ug/ml
RT: 9.048 min Scan# 1328
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:165 Resp: 11698

Ion	Ratio	Lower	Upper
165	100		
89	67.4	54.2	81.2
63	65.9	64.2	96.2

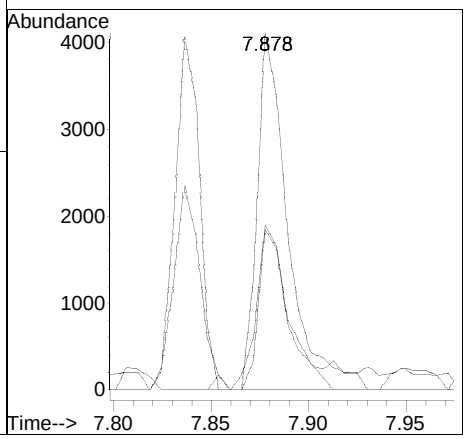


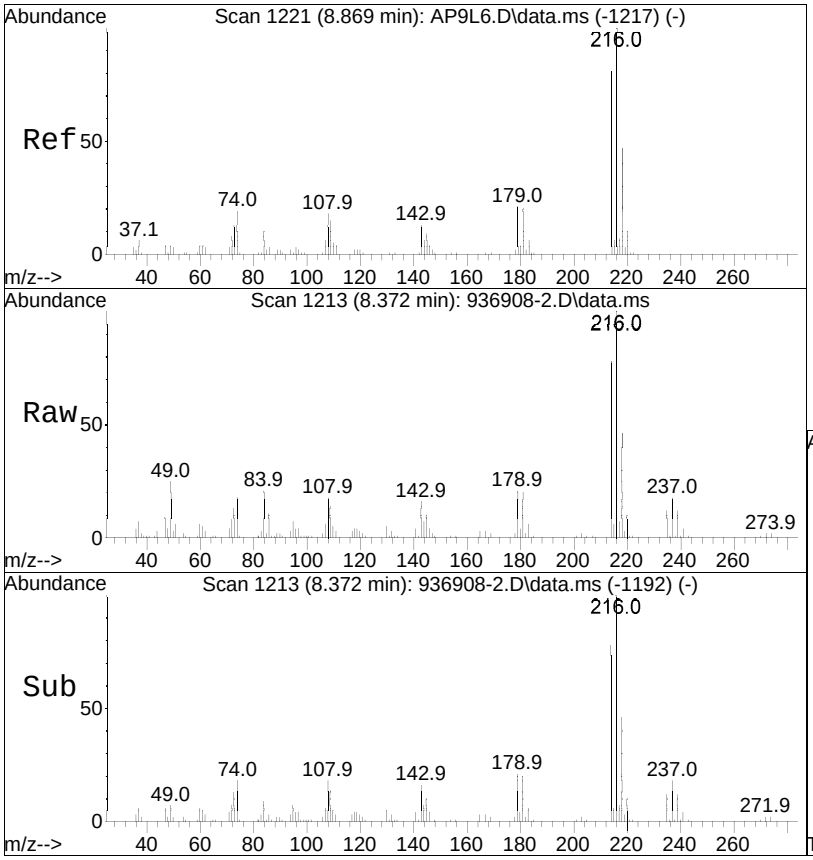


#59
Caprolactam
Concen: 0.52 ug/ml
RT: 7.878 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 55 Resp: 4596

Ion	Ratio	Lower	Upper
55	100		
85	53.0	19.8	29.6#
113	41.9	29.6	44.4

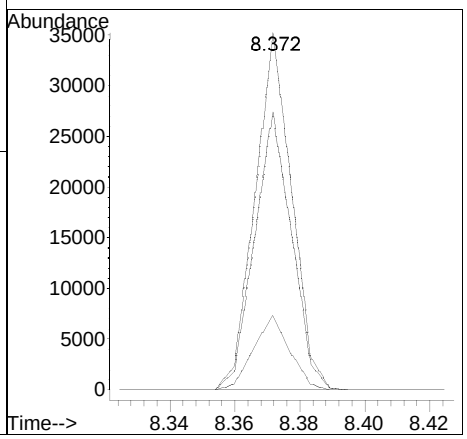


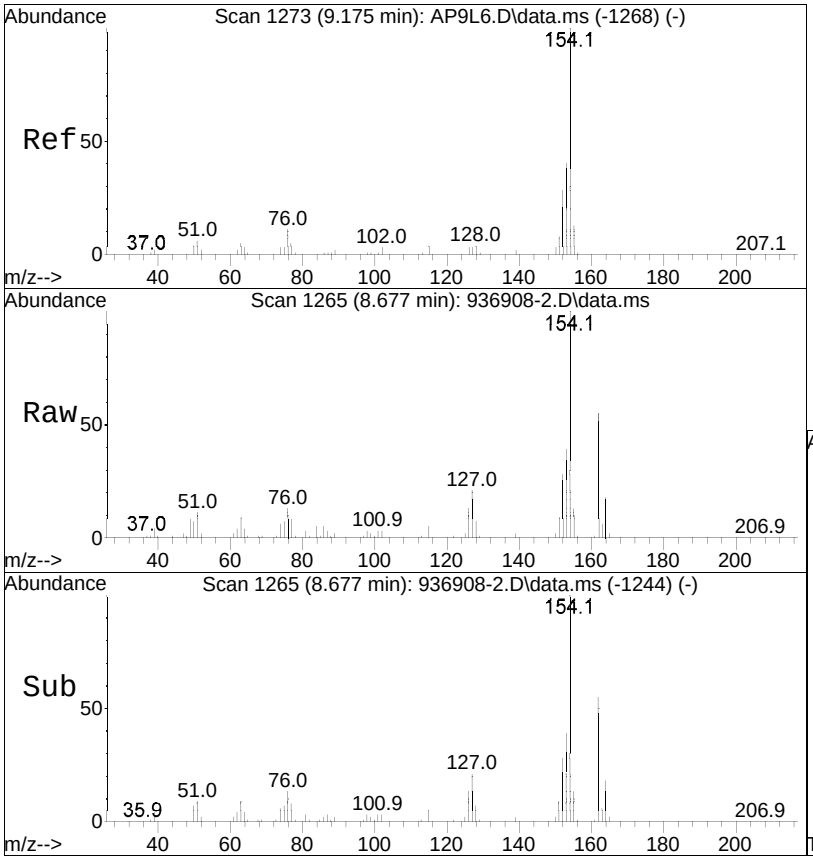


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.16 ug/ml
RT: 8.372 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:216 Resp: 27431

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.7	95.5
179	20.6	19.0	28.6

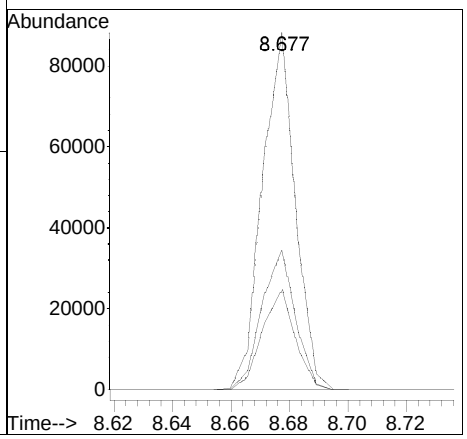


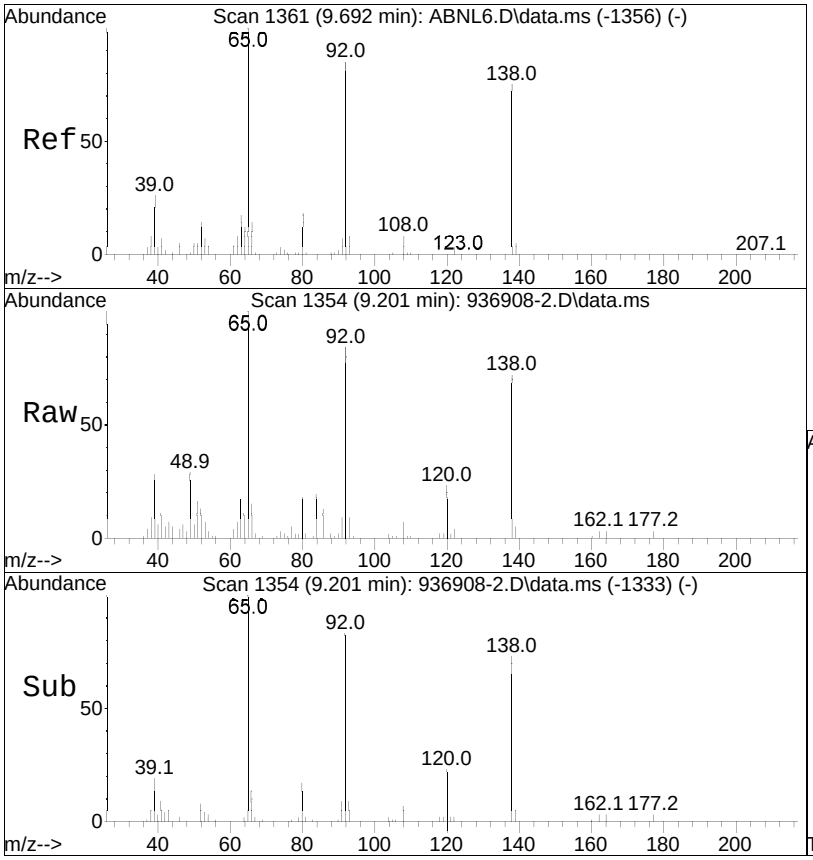


#61
Biphenyl
Concen: 1.25 ug/ml
RT: 8.677 min Scan# 1265
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:154 Resp: 68514

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.5	22.5	33.7

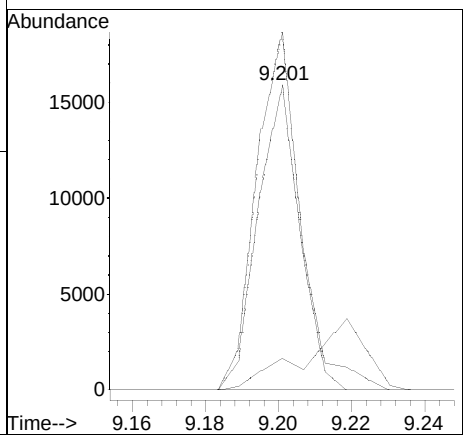


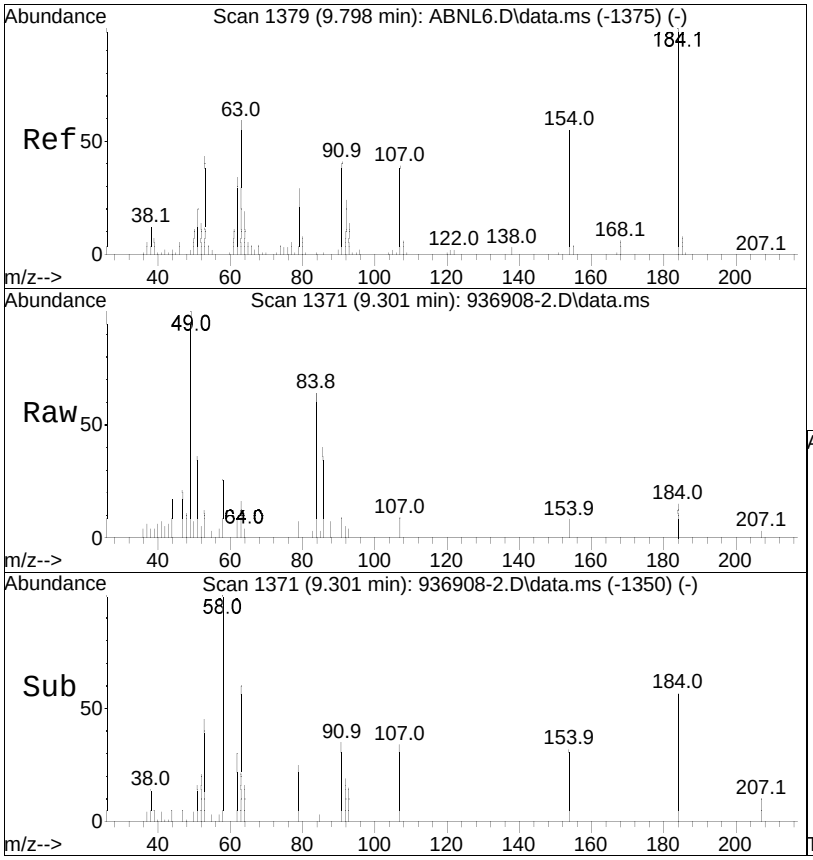


#63
3-Nitroaniline
Concen: 1.36 ug/ml
RT: 9.201 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:138 Resp: 12512

Ion	Ratio	Lower	Upper
138	100		
92	125.0	93.4	140.2
108	34.5	9.5	14.3#

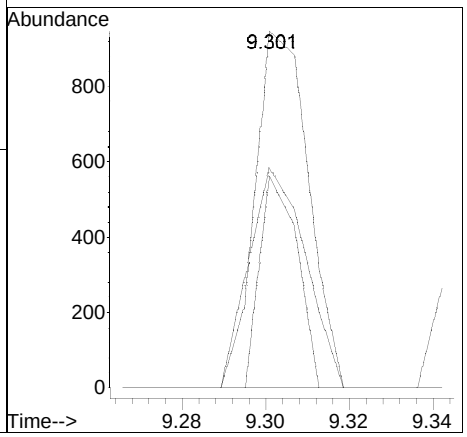


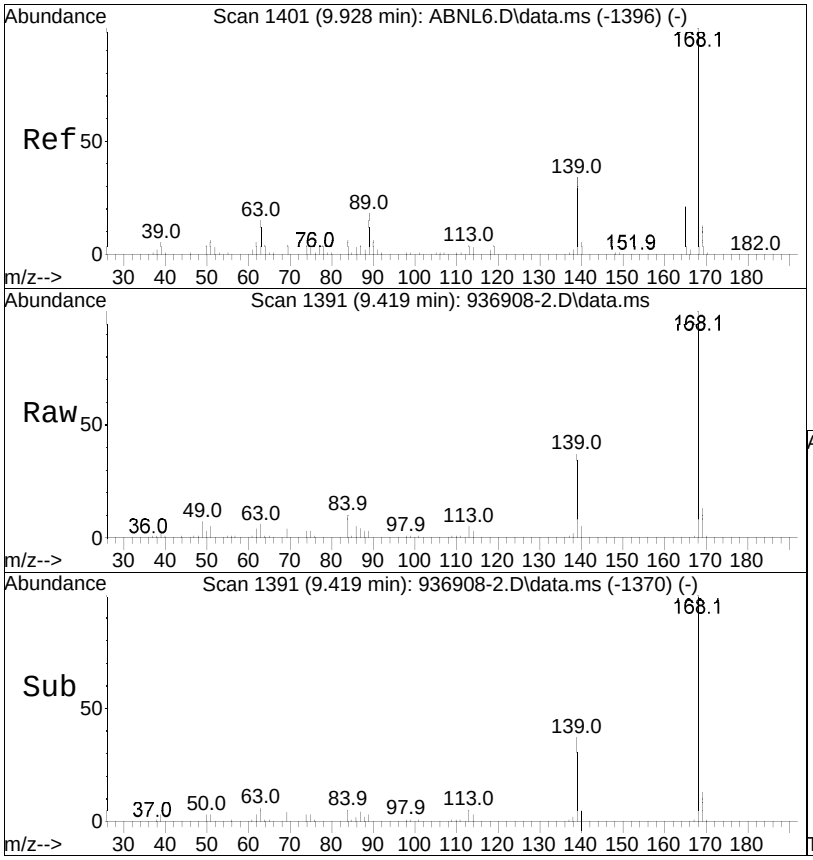


#65
2,4-Dinitrophenol
Concen: 1.09 ug/ml
RT: 9.301 min Scan# 1371
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:184 Resp: 836

Ion	Ratio	Lower	Upper
184	100		
107	0.0	37.7	56.5#
91	65.7	46.3	69.5

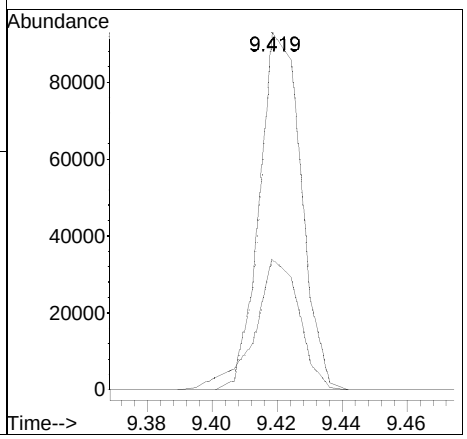


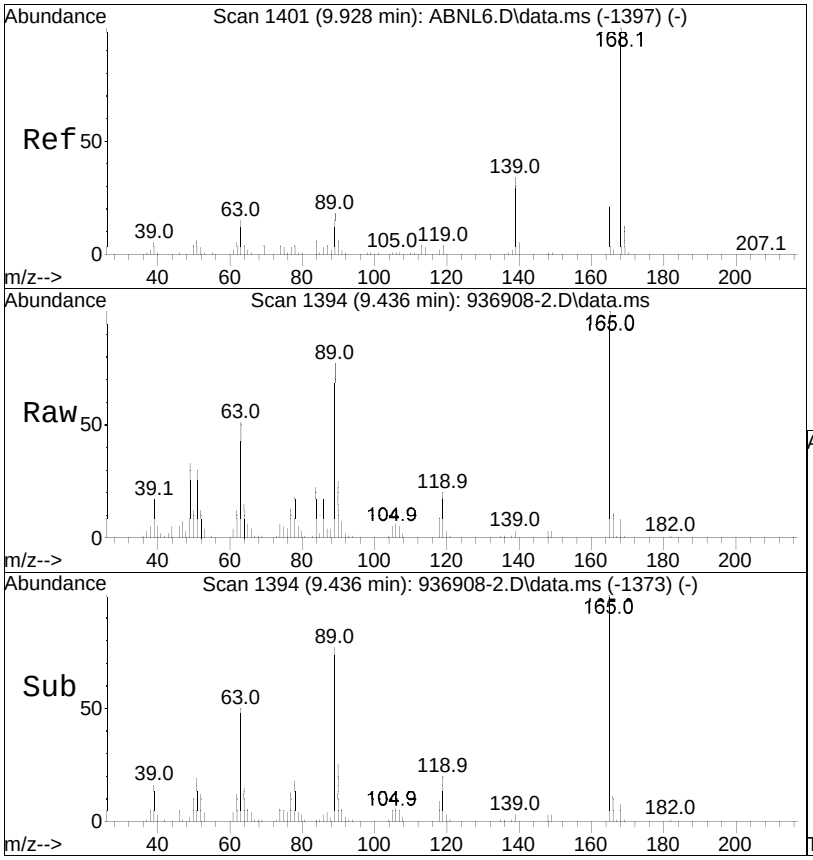


#66
Dibenzofuran
Concen: 1.31 ug/ml
RT: 9.419 min Scan# 1391
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:168 Resp: 81978

Ion	Ratio	Lower	Upper
168	100		
139	39.7	31.4	47.2

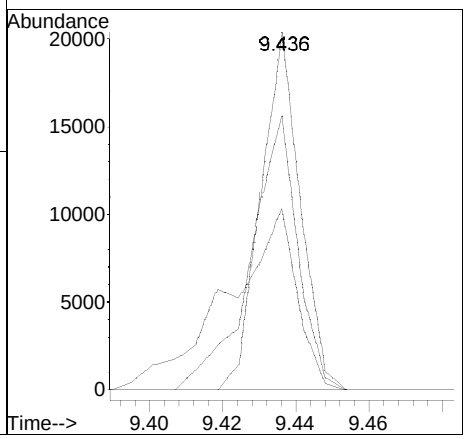


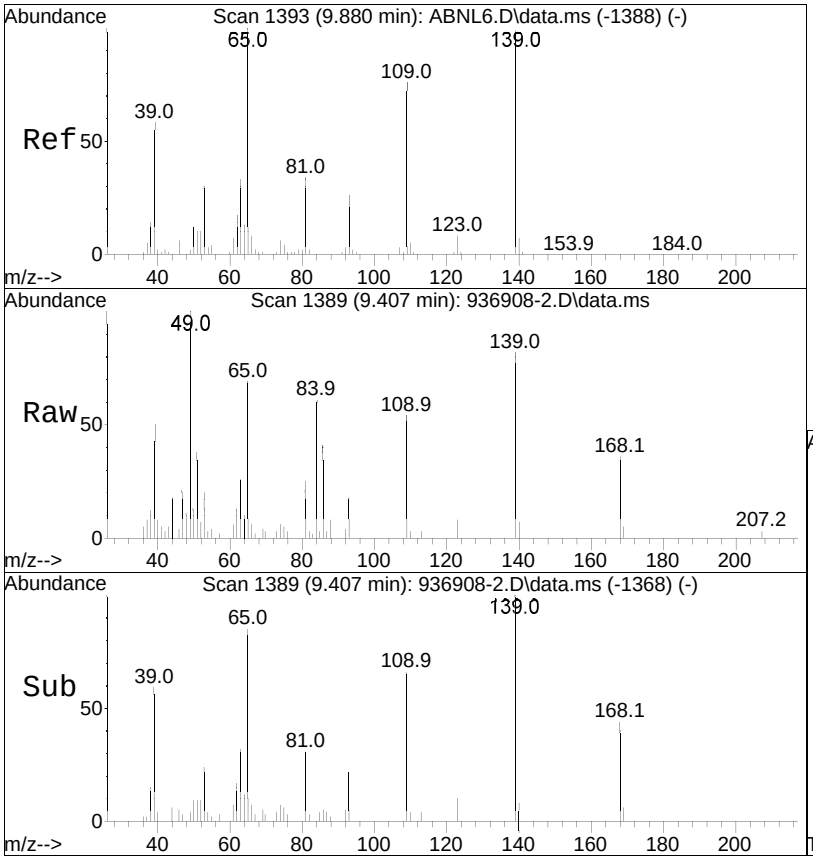


#67
2,4-Dinitrotoluene
Concen: 1.39 ug/ml
RT: 9.436 min Scan# 1394
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:165 Resp: 15128

Ion	Ratio	Lower	Upper
165	100		
89	92.1	72.0	108.0
63	89.9	52.7	79.1#

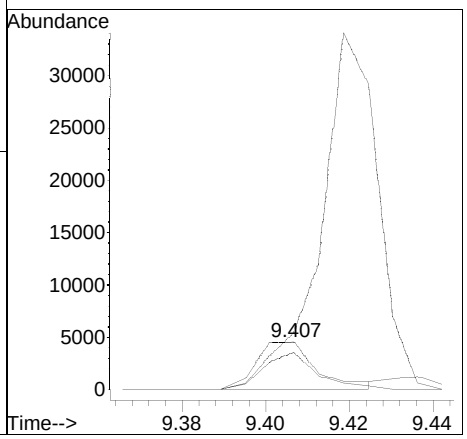


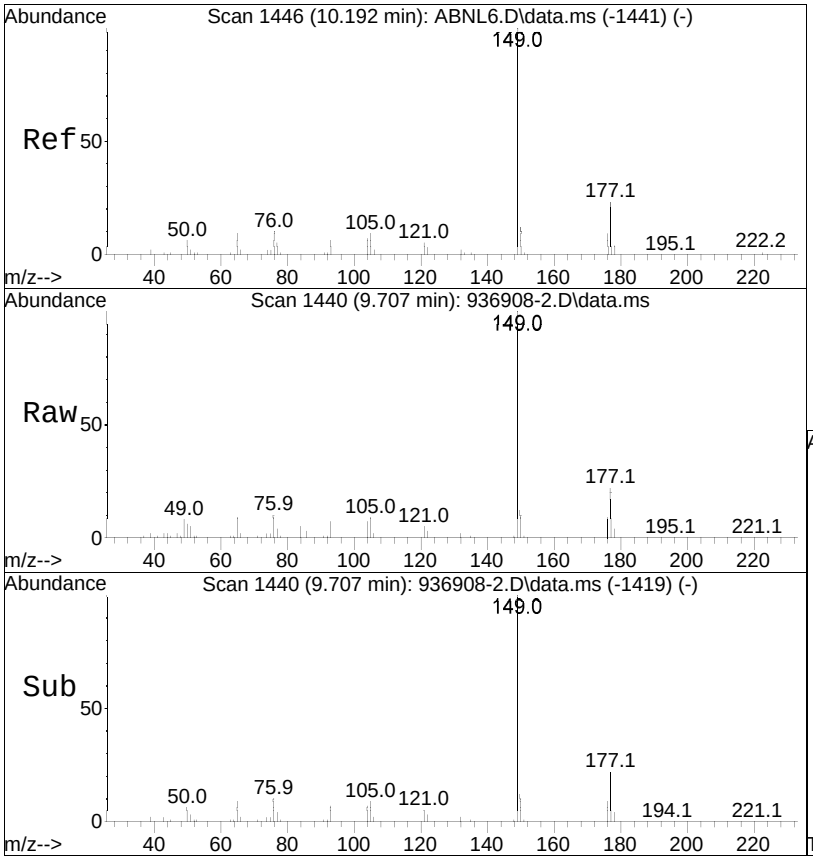


#68
4-Nitrophenol
Concen: 0.59 ug/ml
RT: 9.407 min Scan# 1389
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion: 65 Resp: 4609

Ion	Ratio	Lower	Upper
65	100		
109	68.1	47.4	71.2
139	705.3	76.6	115.0#

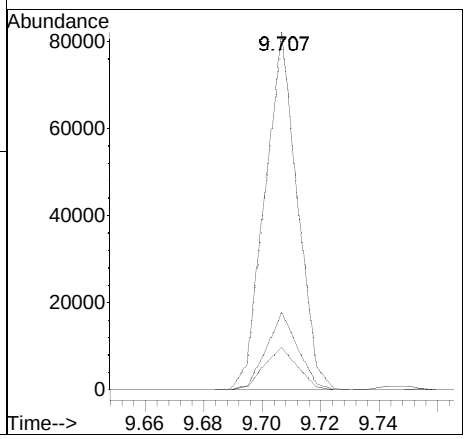


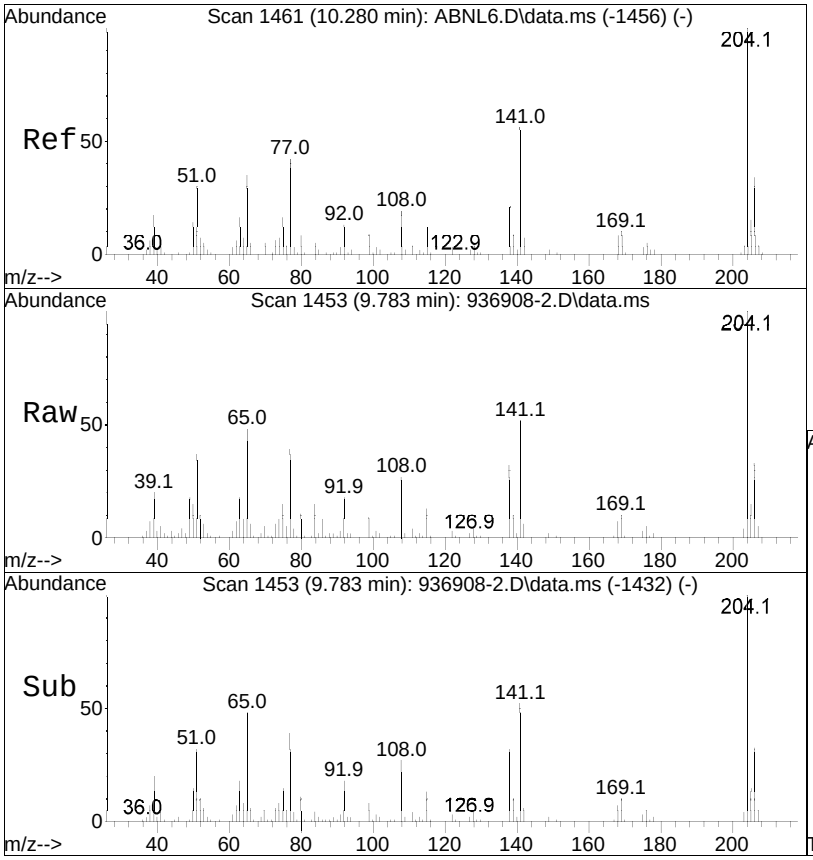


#71
Diethyl phthalate
Concen: 1.35 ug/ml
RT: 9.707 min Scan# 1440
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:149 Resp: 62394

Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.1	24.1
150	12.3	9.4	14.2

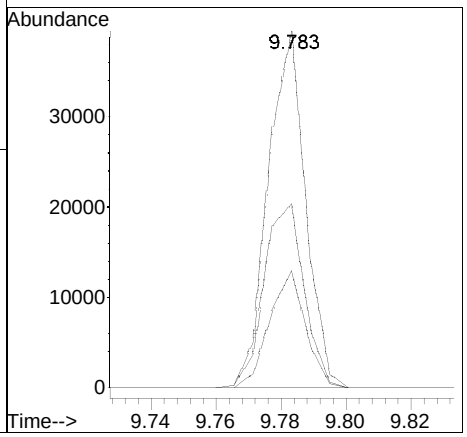


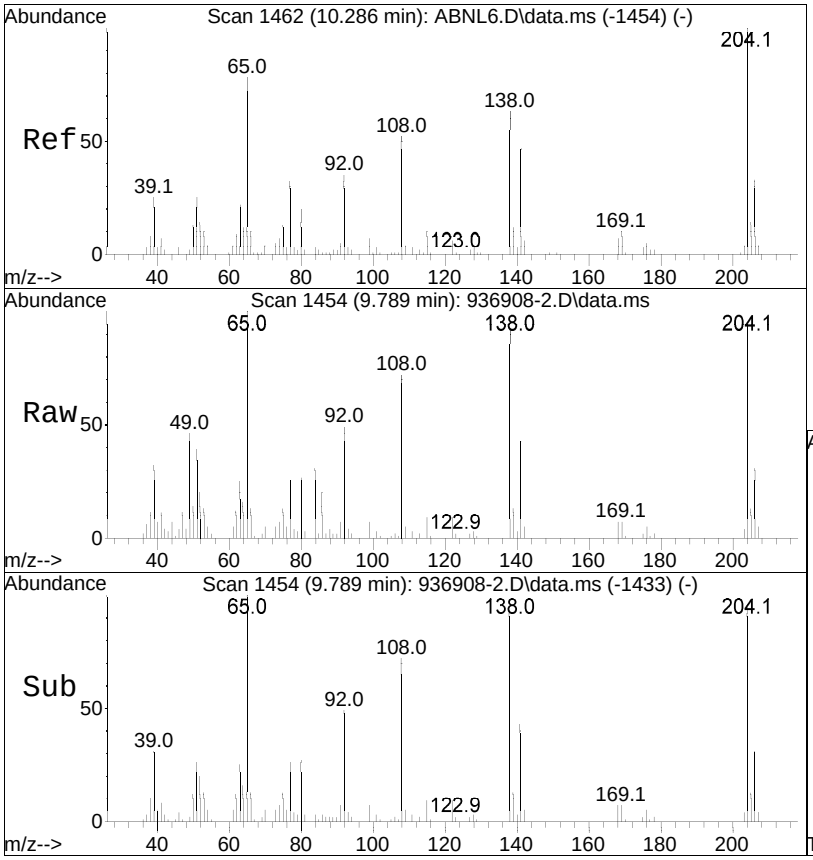


#73
4-Chlorophenyl phenyl ether
Concen: 1.31 ug/ml
RT: 9.783 min Scan# 1453
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:204 Resp: 31309

Ion	Ratio	Lower	Upper
204	100		
206	31.7	25.8	38.6
141	55.5	53.6	80.4

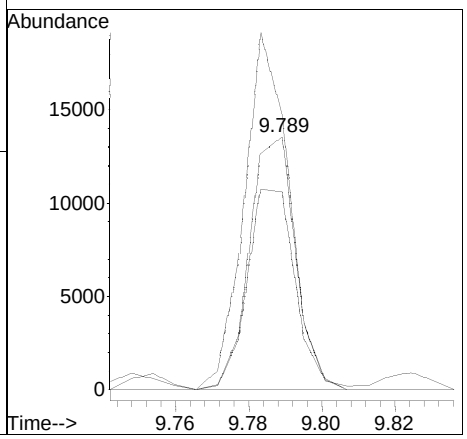


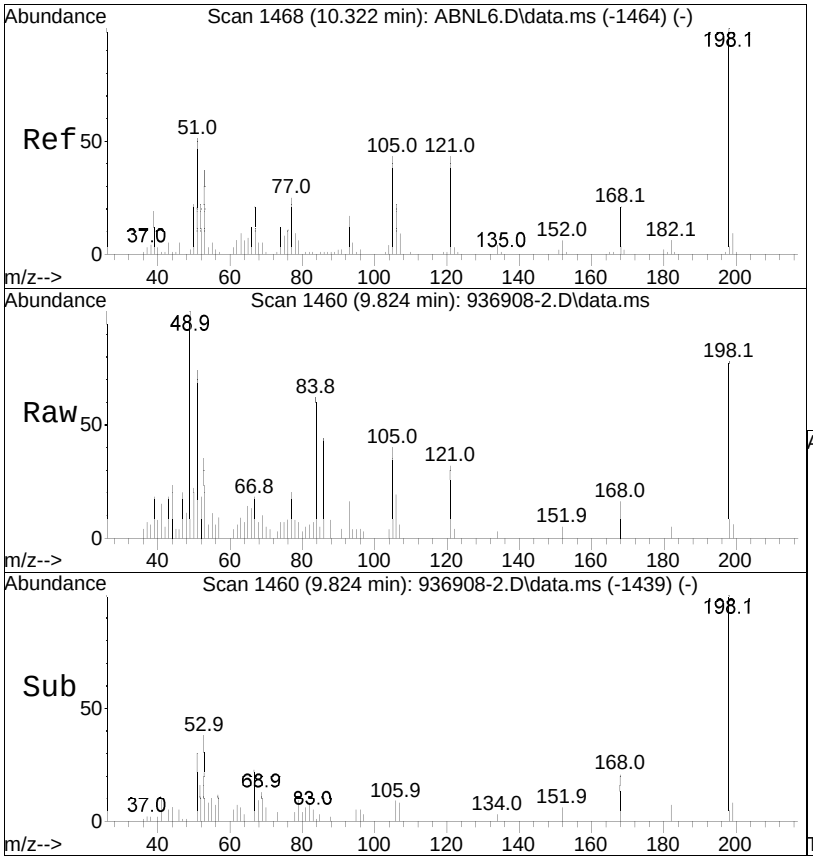


#74
4-Nitroaniline
Concen: 1.27 ug/ml
RT: 9.789 min Scan# 1454
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:138 Resp: 11818

Ion	Ratio	Lower	Upper
138	100		
108	82.3	52.1	78.1#
65	137.0	115.0	172.6

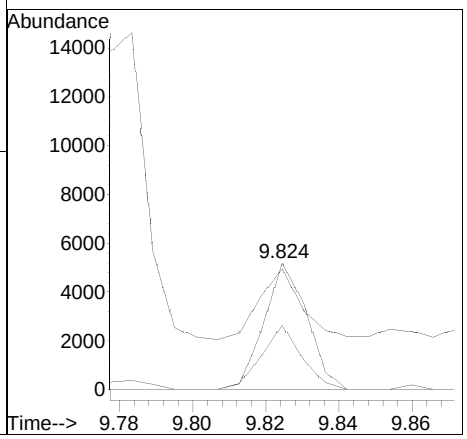


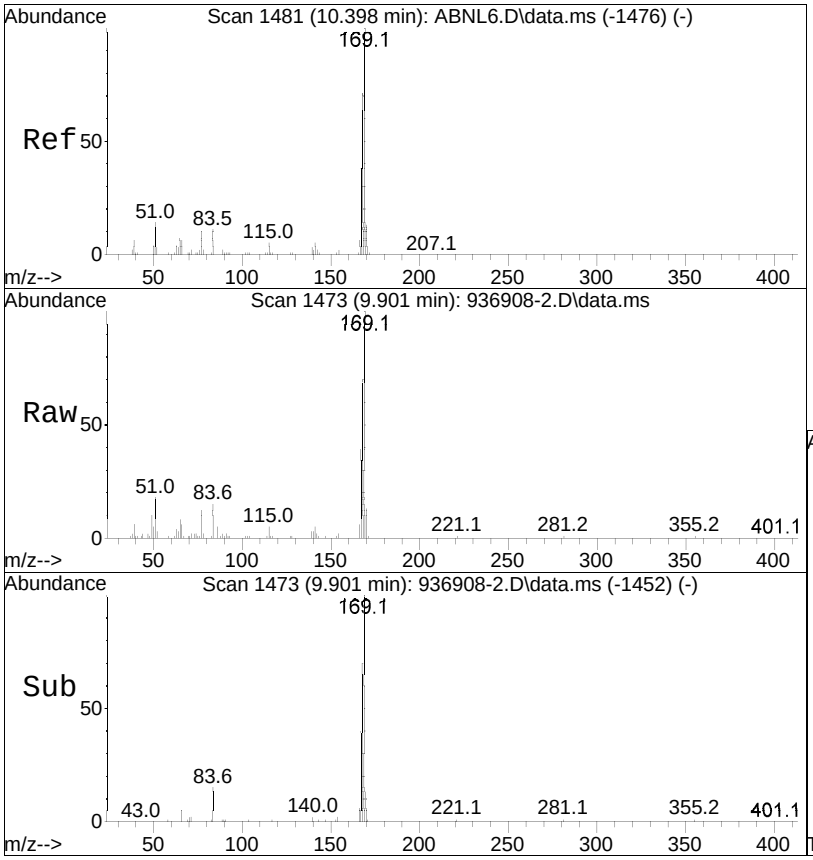


#75
4,6-Dinitro-o-cresol
Concen: 1.07 ug/ml
RT: 9.824 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:198 Resp: 4231

Ion	Ratio	Lower	Upper
198	100		
51	56.3	76.0	114.0#
105	47.9	45.6	68.4

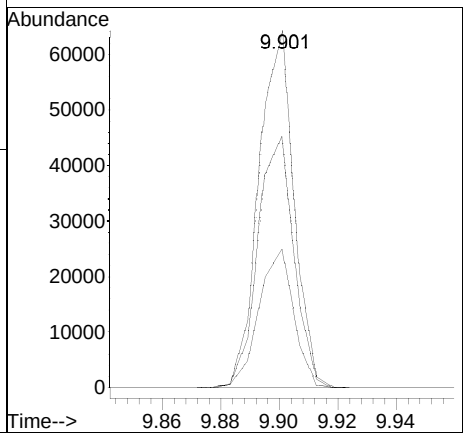


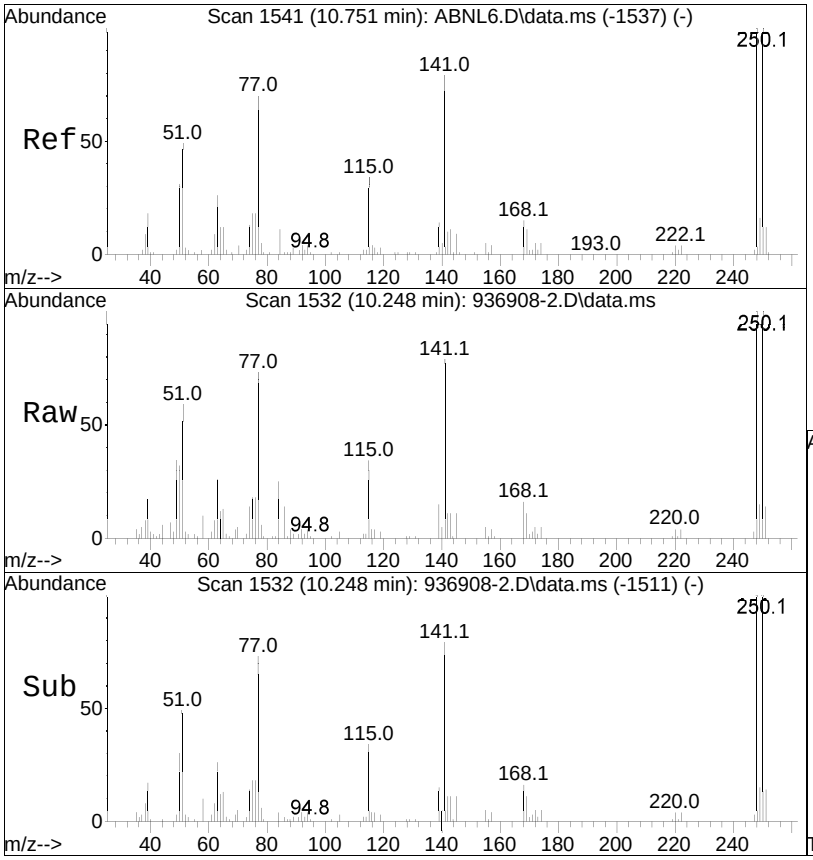


#76
NDPA/DPA
Concen: 1.33 ug/ml
RT: 9.901 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:169 Resp: 53350

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	39.2	28.6	42.8

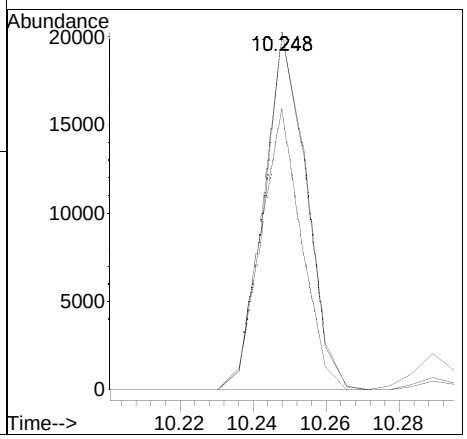


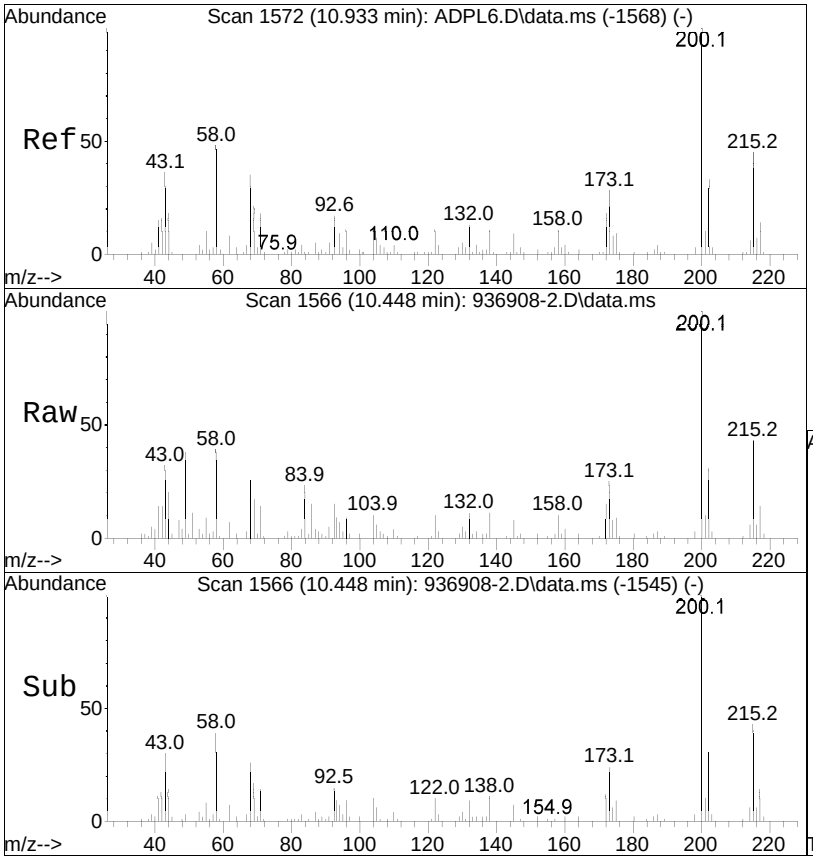


#79
4-Bromophenyl phenyl ether
Concen: 1.23 ug/ml
RT: 10.248 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:248 Resp: 16409

Ion	Ratio	Lower	Upper
248	100		
141	75.4	76.6	114.8#
250	97.6	77.3	115.9

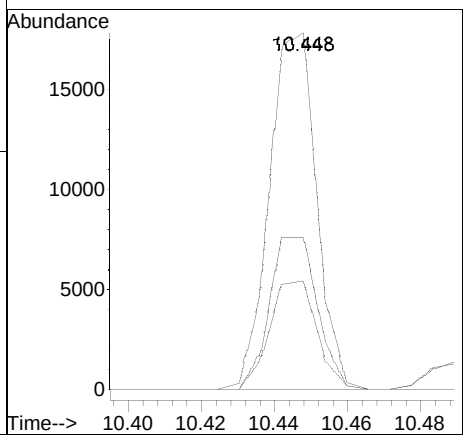


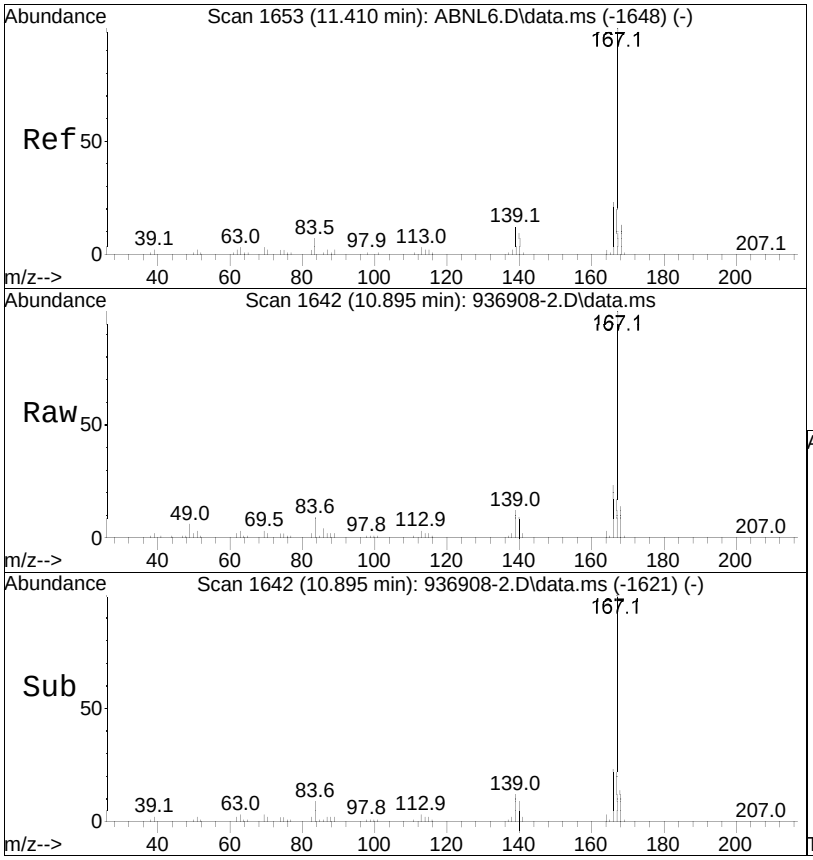


#86
Atrazine
Concen: 1.29 ug/ml
RT: 10.448 min Scan# 1566
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:200 Resp: 15868

Ion	Ratio	Lower	Upper
200	100		
202	30.9	25.8	38.6
215	43.6	40.2	60.4

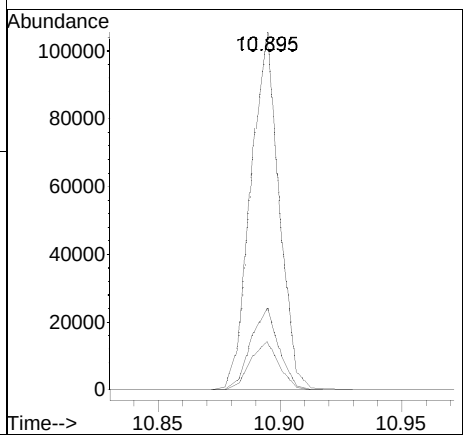


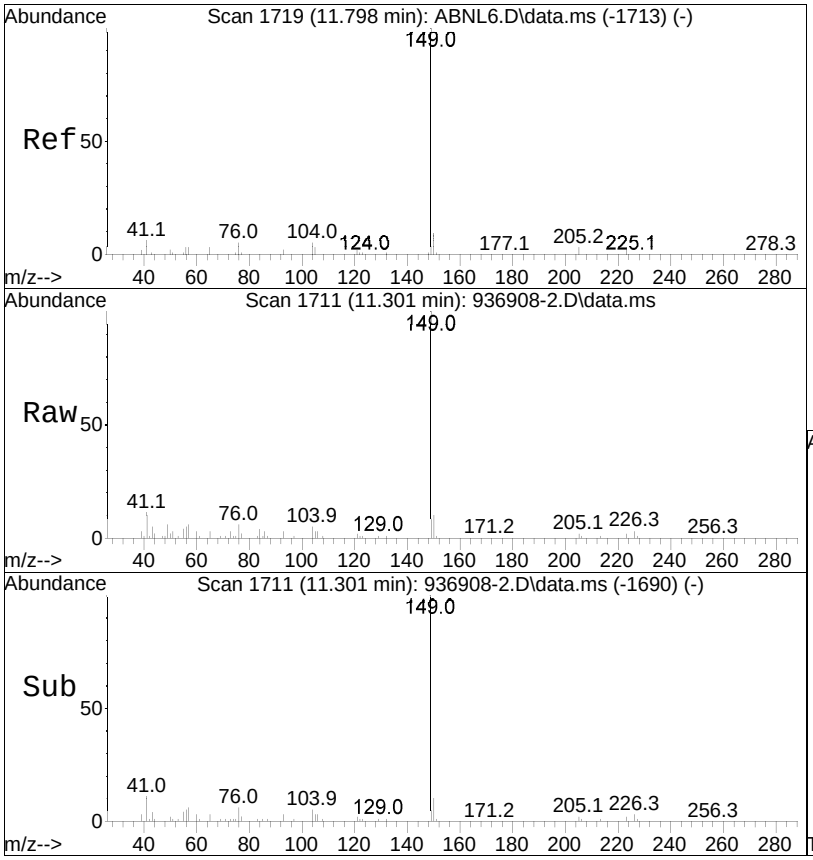


#90
Carbazole
Concen: 1.29 ug/ml
RT: 10.895 min Scan# 1642
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:167 Resp: 84782

Ion	Ratio	Lower	Upper
167	100		
168	13.8	10.6	15.8
166	22.9	17.4	26.0

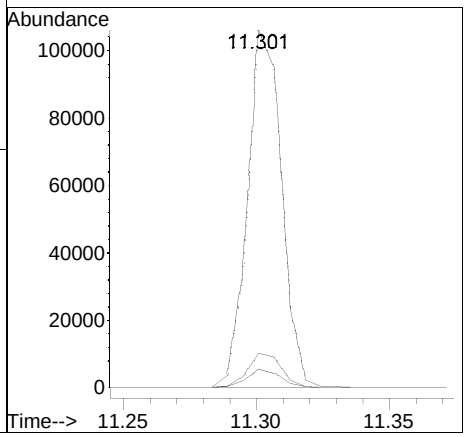


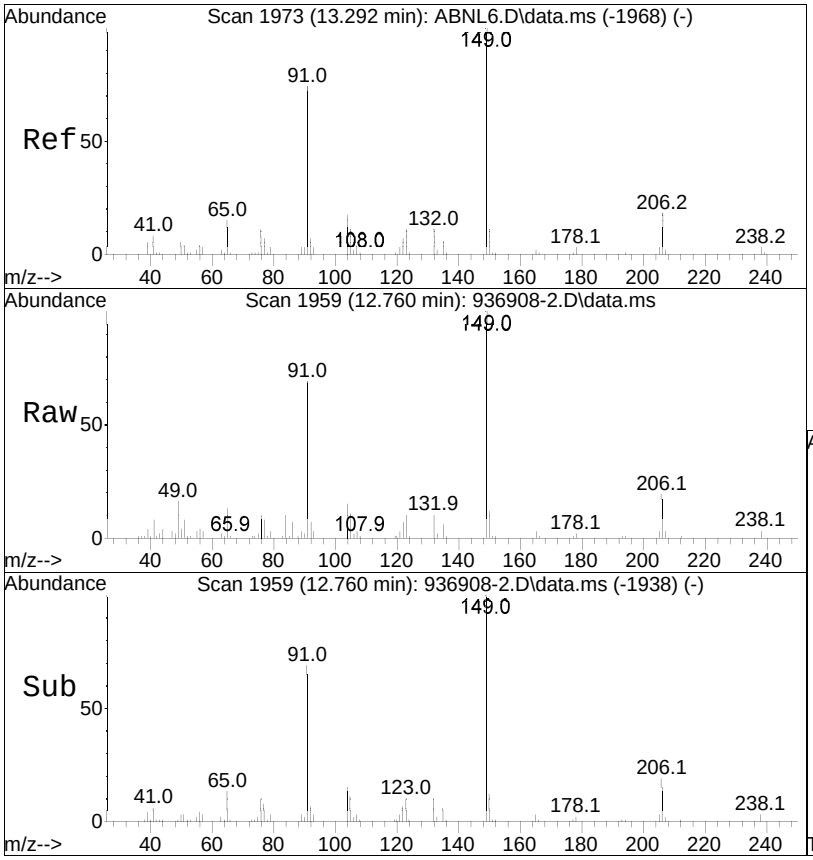


#91
Di-n-butylphthalate
Concen: 1.21 ug/ml
RT: 11.301 min Scan# 1711
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:149 Resp: 93210

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.0	10.6
104	5.0	4.5	6.7

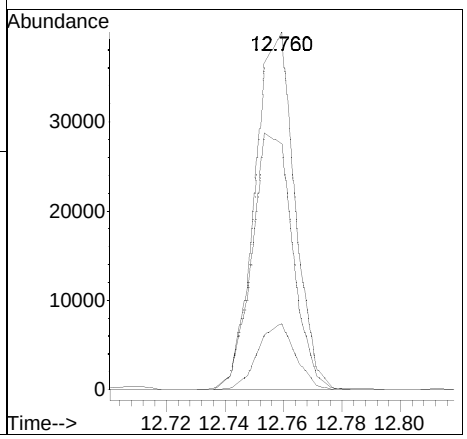


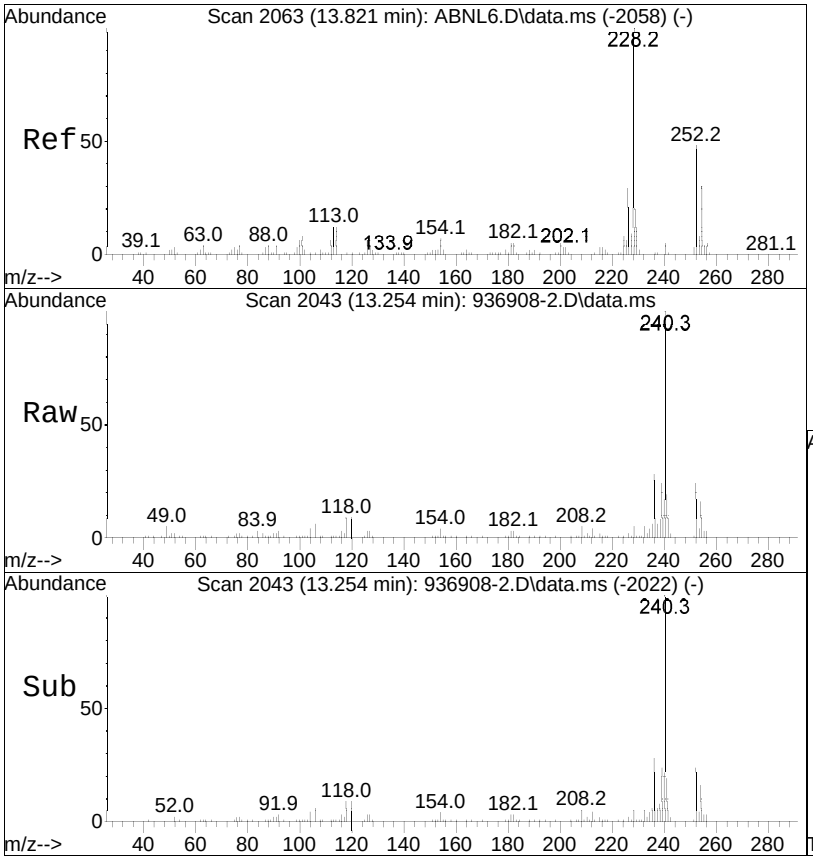


#96
Butyl benzyl phthalate
Concen: 1.34 ug/ml
RT: 12.760 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:149 Resp: 37546

Ion	Ratio	Lower	Upper
149	100		
91	74.0	63.3	94.9
206	17.7	13.9	20.9

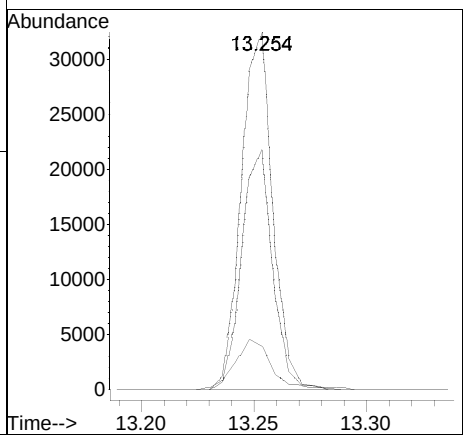


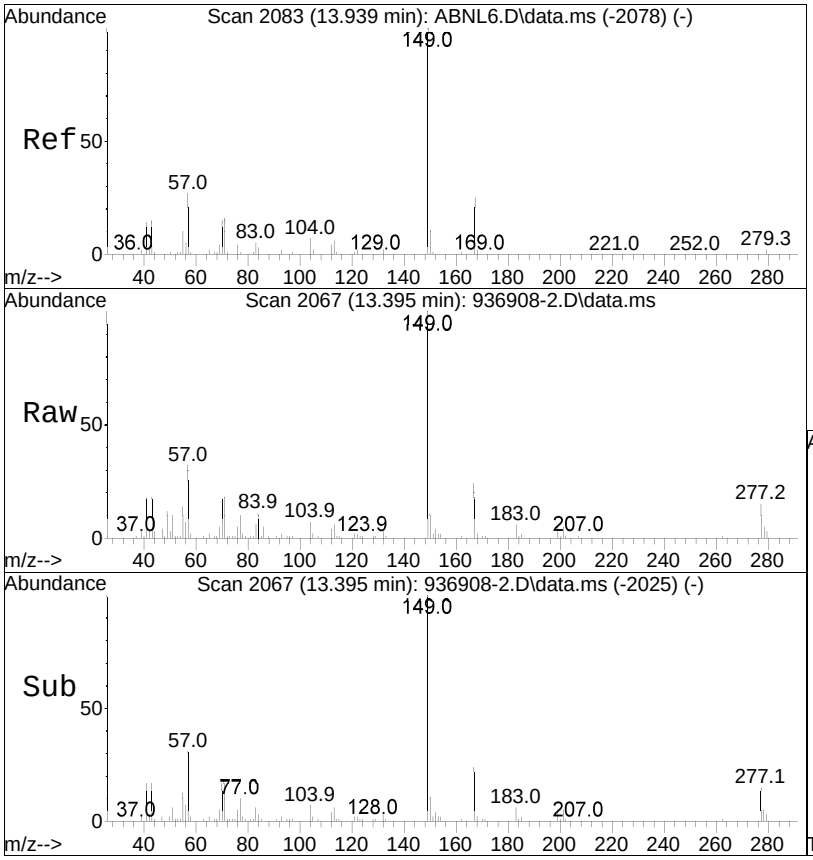


#105
3,3'-Dichlorobenzidine
Concen: 1.30 ug/ml
RT: 13.254 min Scan# 2043
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:252 Resp: 31428

Ion	Ratio	Lower	Upper
252	100		
126	16.8	14.5	21.7
254	65.7	51.2	76.8

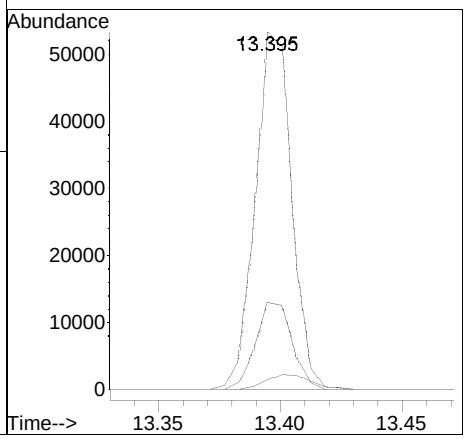


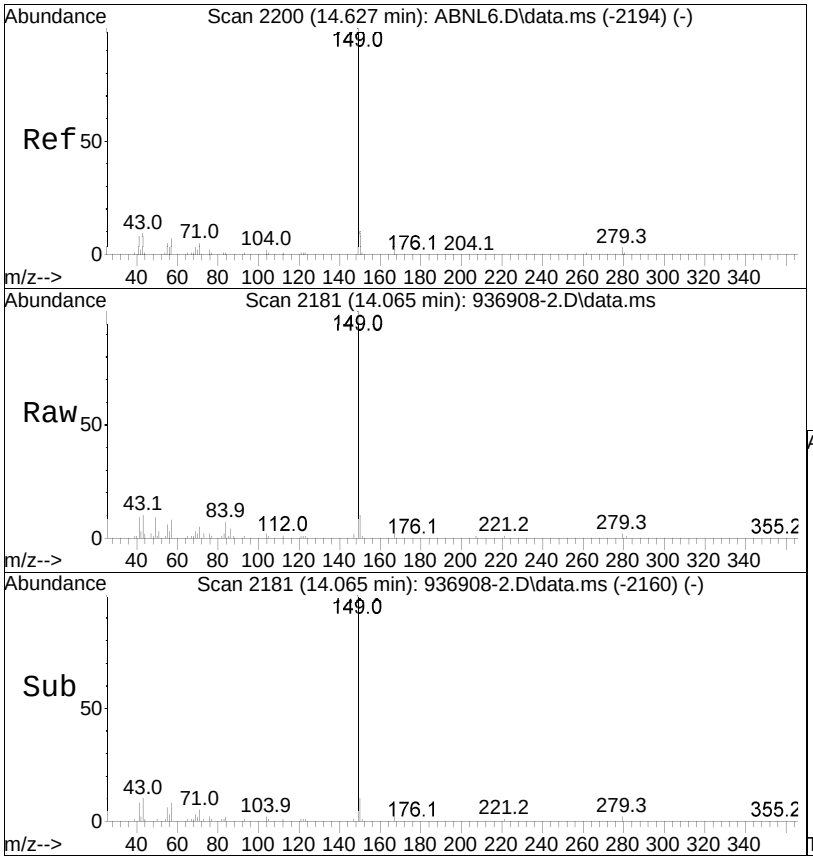


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.27 ug/ml
RT: 13.395 min Scan# 2067
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:149 Resp: 54688

Ion	Ratio	Lower	Upper
149	100		
167	24.6	22.1	33.1
279	5.1	3.0	4.4#

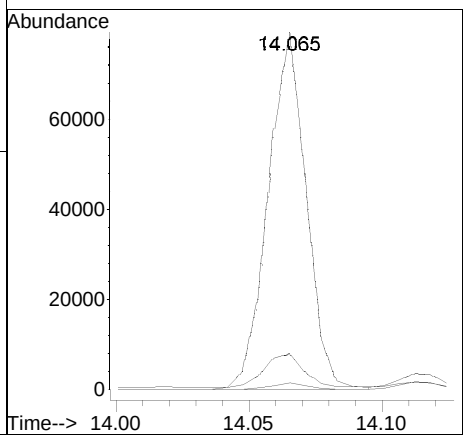




#108
Di-n-octylphthalate
Concen: 1.33 ug/ml
RT: 14.065 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 936908-2.D
Acq: 21 Jun 2024 4:57 am

Tgt Ion:149 Resp: 78050

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.6	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-3.D
Acq On : 20 Jun 2024 2:54 pm
Operator : SV107:mrg
Sample : WG1936733-3,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:42:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 15:15:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.016	152	62409	4.000	ug/ml	0.00
Standard Area 1 = 64596			Recovery = 96.61%			
27) IS2_1,4-Dichlorobenzen...	6.016	152	62409	4.000	ug/ml	0.00
Standard Area 3 = 62418			Recovery = 99.99%			
32) IS3_1,4-Dichlorobenzen...	6.016	152	62409	4.000	ug/ml	0.00
Standard Area 2 = 57965			Recovery = 107.67%			
34) IS1_Naphthalene-d8	7.492	136	225354	4.000	ug/ml	0.00
Standard Area 1 = 242090			Recovery = 93.09%			
54) IS2_Naphthalene-d8	7.492	136	225354	4.000	ug/ml	0.00
Standard Area 3 = 232012			Recovery = 97.13%			
62) IS1_Acenaphthene-d10	9.269	164	142880	4.000	ug/ml	0.00
Standard Area 1 = 156189			Recovery = 91.48%			
82) IS2_Acenaphthene-d10	9.269	164	142880	4.000	ug/ml	0.00
Standard Area 3 = 146718			Recovery = 97.38%			
85) IS3_Acenaphthene-d10	9.269	164	142880	4.000	ug/ml	0.00
Standard Area 2 = 132297			Recovery = 108.00%			
87) IS1_Phenanthrene-d10	10.698	188	302027	4.000	ug/ml	0.00
Standard Area 1 = 313744			Recovery = 96.27%			
99) IS3_Phenanthrene-d10	10.698	188	302027	4.000	ug/ml	# 0.00
Standard Area 2 = 294448			Recovery = 102.57%			
103) IS1_Chrysene-d12	13.304	240	240604	4.000	ug/ml	0.00
Standard Area 1 = 264835			Recovery = 90.85%			
112) IS1_Perylene-d12	14.751	264	238254	4.000	ug/ml	0.00
Standard Area 1 = 258064			Recovery = 92.32%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.722	112	14194	0.851	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.55%			
7) Phenol-d6	5.645	99	11977	0.581	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.05%			
19) Nitrobenzene-d5	6.710	82	12603	0.694	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.40%			
45) 2-Fluorobiphenyl	8.633	172	32016	0.656	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.60%			
78) 2,4,6-Tribromophenol	10.033	330	8640	1.418	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 70.90%			

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-3.D
Acq On : 20 Jun 2024 2:54 pm
Operator : SV107:mrg
Sample : WG1936733-3,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:42:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 15:15:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.280	244	41840	0.633	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 63.30%

Target Compounds						Qvalue
6) 2-Chlorophenol	5.734	128	22580	1.228	ug/ml	96
8) Phenol	5.663	94	13880	0.619	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.439	45	35053	1.384	ug/ml#	58
15) 2-Methylphenol	6.439	108	16968	1.055	ug/ml	95
17) n-Nitrosodi-n-propylamine	6.592	70	17942	1.308	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.639	108	19171	1.133	ug/ml#	60
20) Nitrobenzene	6.733	77	25454	1.363	ug/ml	94
21) Isophorone	7.022	82	44190	1.226	ug/ml	96
22) 2-Nitrophenol	7.098	139	10647	1.280	ug/ml#	93
23) 2,4-Dimethylphenol	7.222	107	19409	1.144	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.310	93	32070	1.363	ug/ml#	97
25) 2,4-Dichlorophenol	7.375	162	22028	1.291	ug/ml	93
28) Benzaldehyde	5.392	105	19224	1.203	ug/ml	100
29) Acetophenone	6.551	105	35619	1.290	ug/ml#	87
37) 4-Chloroaniline	7.610	65	8550	1.208	ug/ml	73
39) p-Chloro-m-cresol	8.157	107	18958	1.236	ug/ml	97
42) Hexachlorocyclopentadiene	8.427	237	8816	0.763	ug/ml	99
43) 2,4,6-Trichlorophenol	8.551	196	17505	1.312	ug/ml	98
44) 2,4,5-Trichlorophenol	8.575	196	19975	1.412	ug/ml	98
47) 2-Nitroaniline	8.845	138	13175	1.352	ug/ml	90
50) Dimethyl phthalate	9.057	163	67993	1.439	ug/ml#	98
52) 2,6-Dinitrotoluene	9.092	165	11804	1.373	ug/ml	89
59) Caprolactam	7.928	55	2987	0.356	ug/ml#	82
60) 1,2,4,5-Tetrachloroben...	8.422	216	24027	1.061	ug/ml	96
61) Biphenyl	8.722	154	59500	1.137	ug/ml	99
63) 3-Nitroaniline	9.245	138	11821	1.275	ug/ml#	91
65) 2,4-Dinitrophenol	9.351	184	3446	1.513	ug/ml	90
66) Dibenzofuran	9.469	168	76315	1.216	ug/ml	96
67) 2,4-Dinitrotoluene	9.480	165	16535	1.484	ug/ml#	87
68) 4-Nitrophenol	9.445	65	5996	0.758	ug/ml#	32
71) Diethyl phthalate	9.751	149	64051	1.378	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.827	204	28065	1.169	ug/ml	92
74) 4-Nitroaniline	9.833	138	11809	1.259	ug/ml#	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-3.D
Acq On : 20 Jun 2024 2:54 pm
Operator : SV107:mrg
Sample : WG1936733-3,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:42:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 15:15:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620RVT\ABN0620.D
: 2 - I:\8270\sv107\240620RVT\ADP0620.D
: 3 - I:\8270\sv107\240620RVT\AP90620.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	9.869	198	7596	1.474	ug/ml#	70
76)	NDPA/DPA	9.945	169	53692	1.329	ug/ml	94
79)	4-Bromophenyl phenyl e...	10.298	248	16140	1.200	ug/ml#	88
86)	Atrazine	10.492	200	17432	1.406	ug/ml	94
90)	Carbazole	10.939	167	91820	1.310	ug/ml	98
91)	Di-n-butylphthalate	11.351	149	98128	1.194	ug/ml	99
96)	Butyl benzyl phthalate	12.804	149	36664	1.263	ug/ml	94
105)	3,3'-Dichlorobenzidine	13.304	252	32906	1.273	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.445	149	53186	1.170	ug/ml#	95
108)	Di-n-octylphthalate	14.121	149	67191	1.152	ug/ml#	77

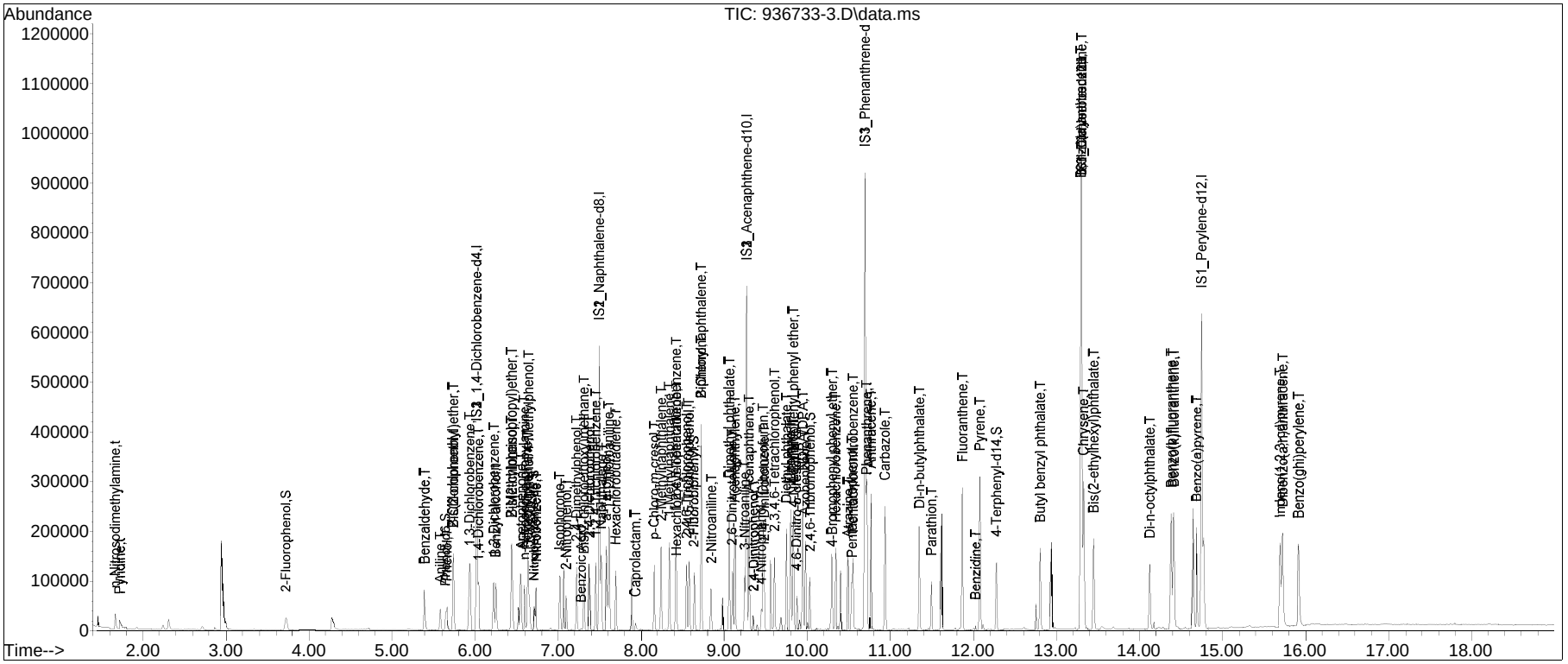
(#) = qualifier out of range (m) = manual integration (+) = signals summed

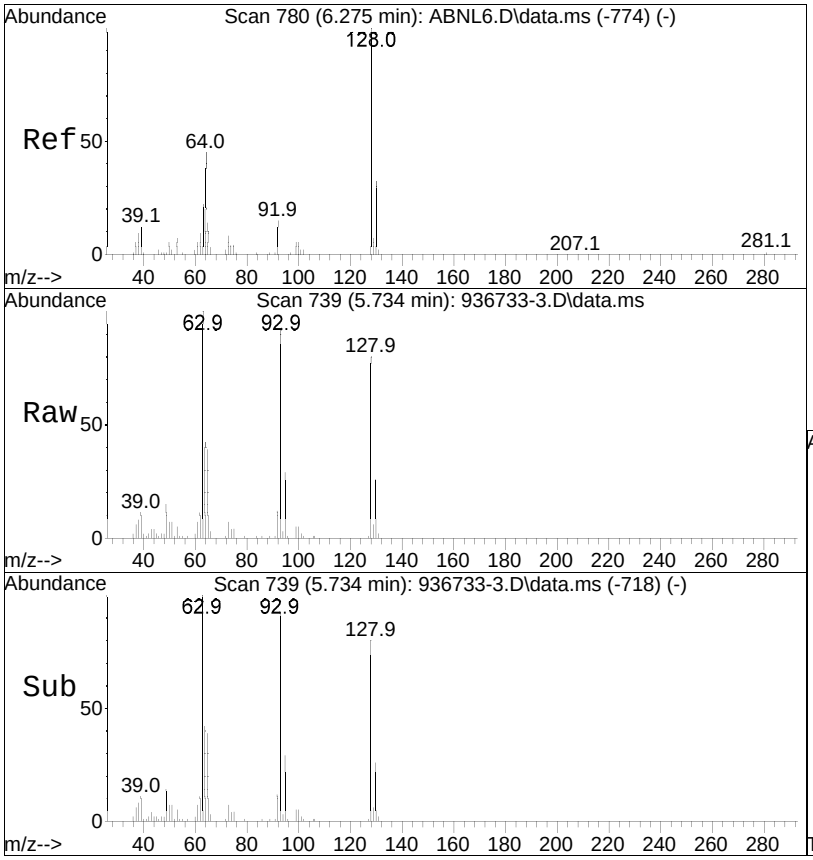
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620RVT\
Data File : 936733-3.D
Acq On : 20 Jun 2024 2:54 pm
Operator : SV107:mrg
Sample : WG1936733-3,32,,HNY
Misc : WG1937154,WG1936733,ical21169
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:42:24 2024
Quant Method : I:\8270\sv107\240620RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 15:15:05 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90620.D•

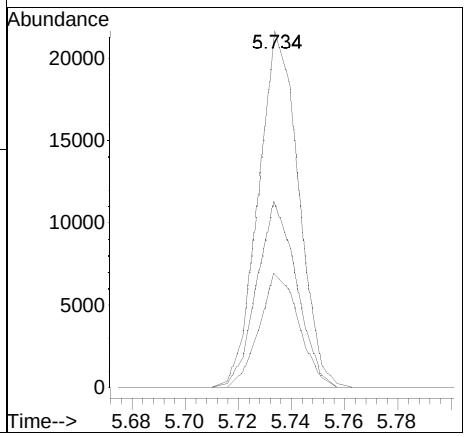


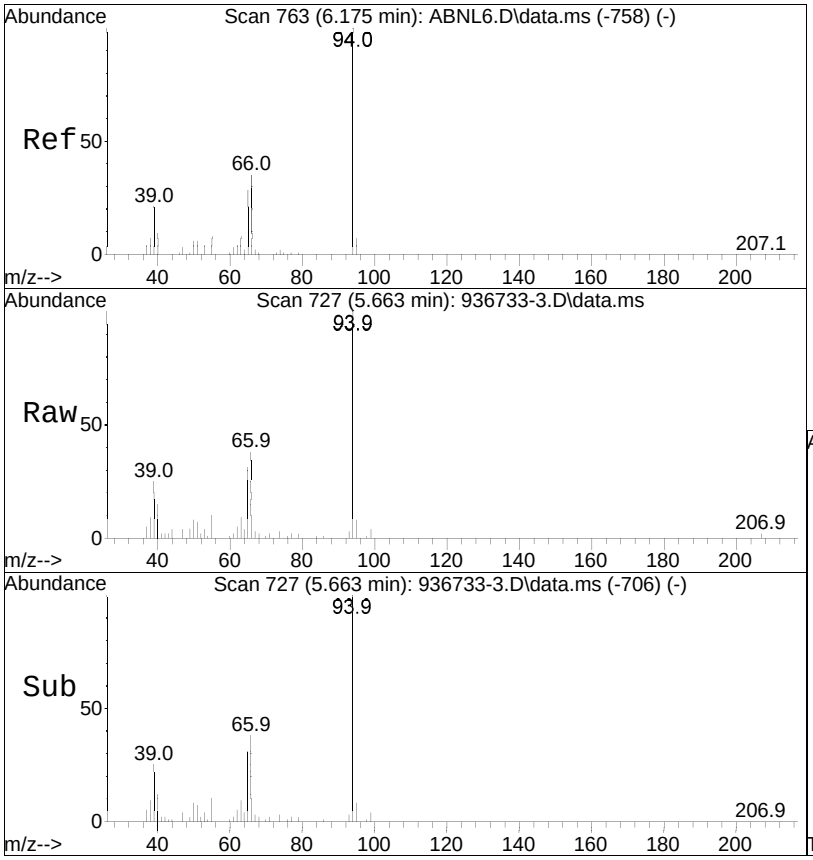


#6
2-Chlorophenol
Concen: 1.23 ug/ml
RT: 5.734 min Scan# 739
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:128 Resp: 22580

Ion	Ratio	Lower	Upper
128	100		
64	51.9	45.1	67.7
130	31.9	26.2	39.4

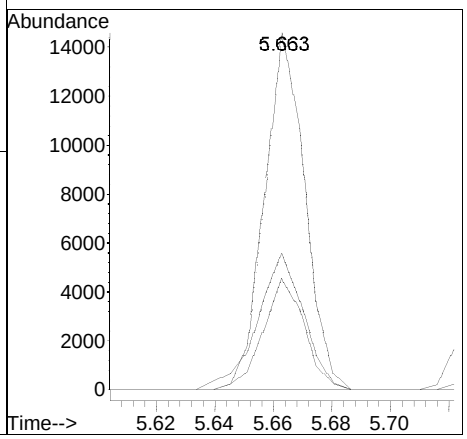


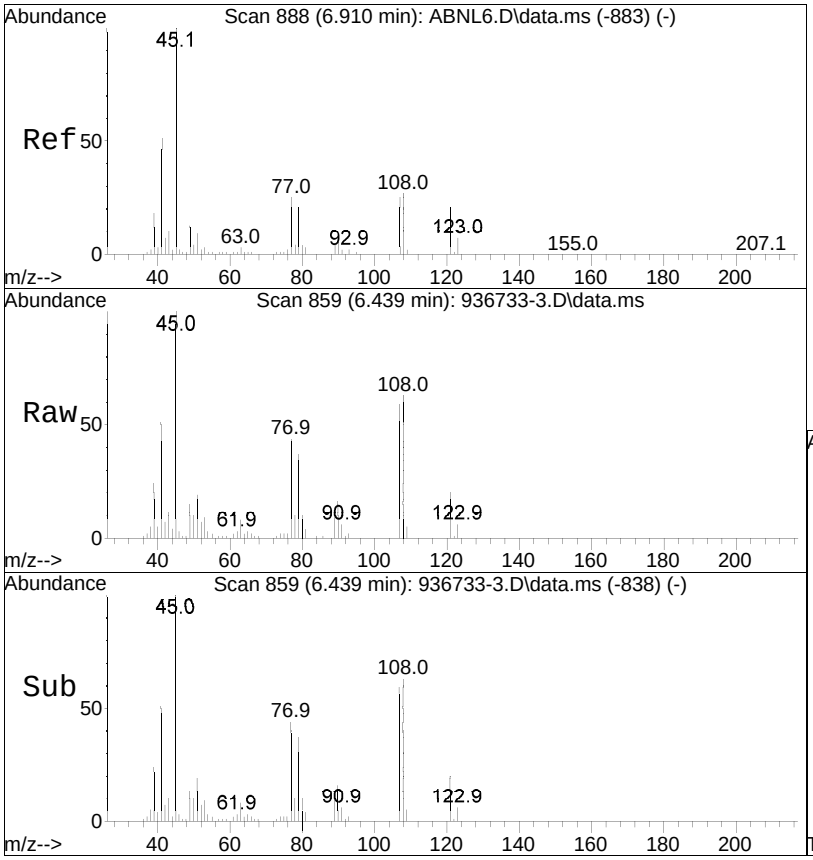


#8
Phenol
Concen: 0.62 ug/ml
RT: 5.663 min Scan# 727
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 94 Resp: 13880

Ion	Ratio	Lower	Upper
94	100		
65	32.1	26.0	39.0
66	44.0	33.8	50.8

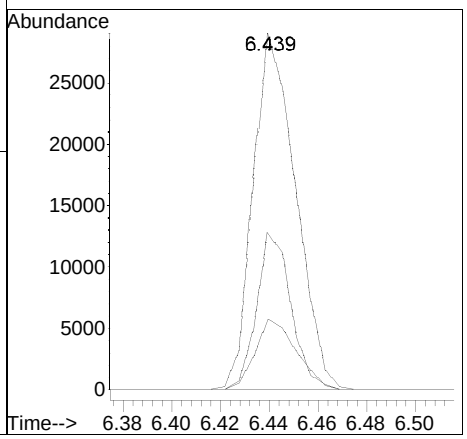


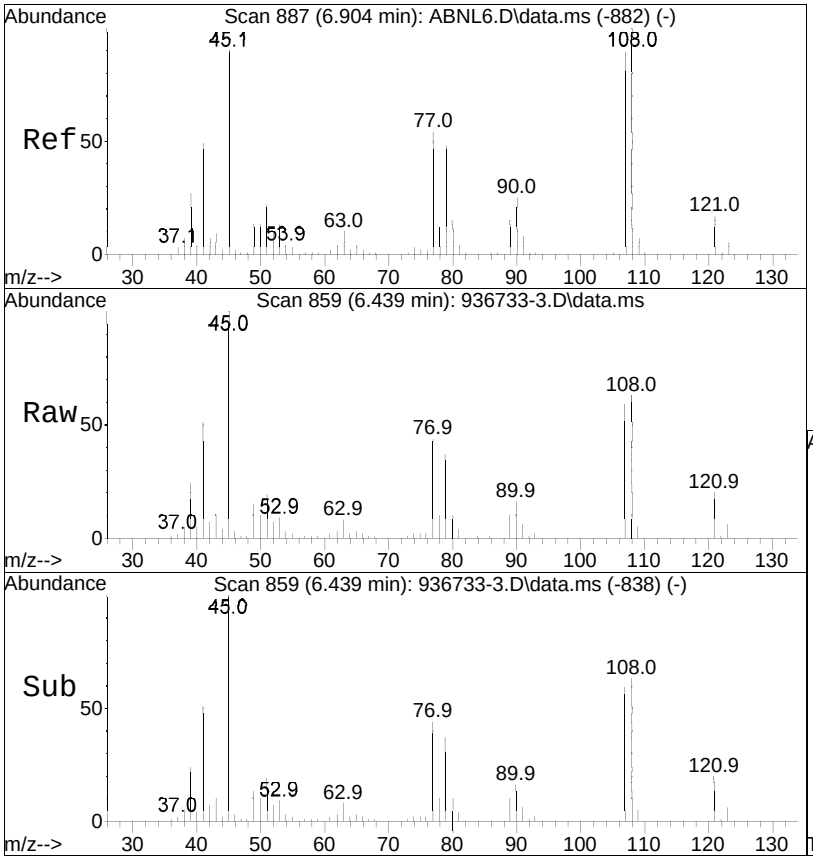


#14
Bis(2-chloroisopropyl)ether
Concen: 1.38 ug/ml
RT: 6.439 min Scan# 859
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 45 Resp: 35053

Ion	Ratio	Lower	Upper
45	100		
121	19.1	9.8	14.6#
77	35.8	6.1	9.1#

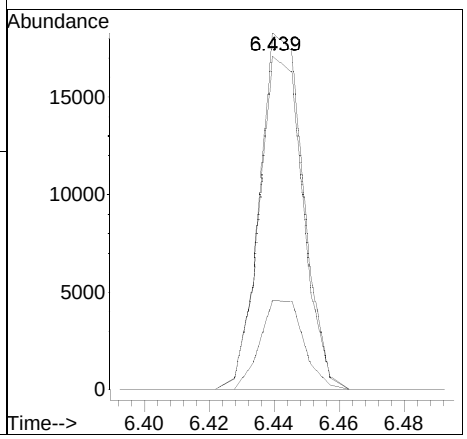


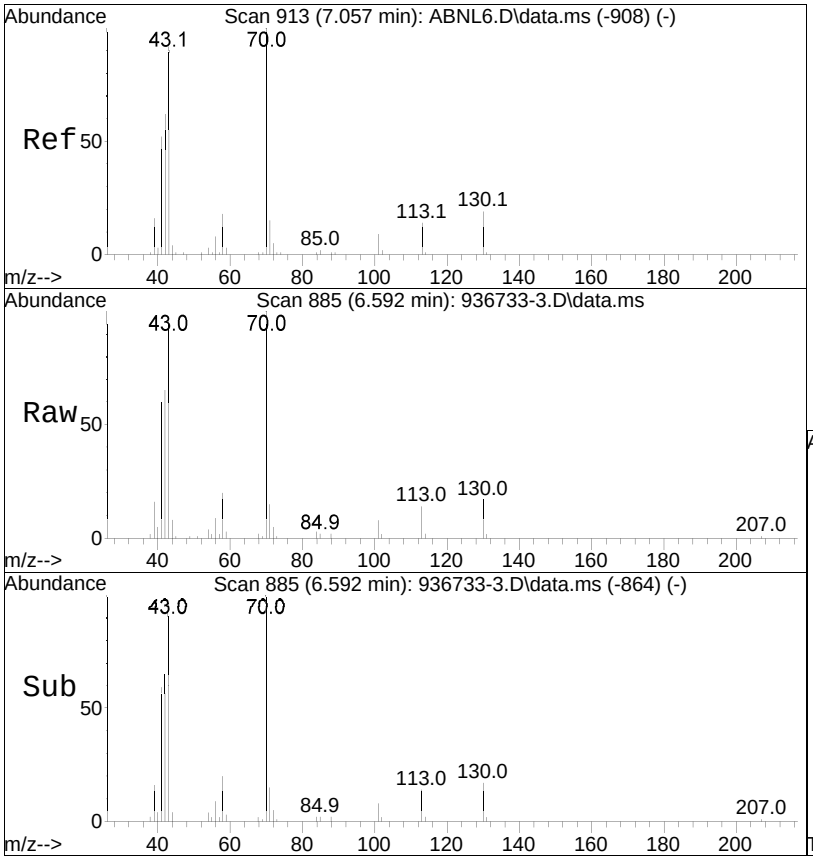


#15
2-Methylphenol
Concen: 1.06 ug/ml
RT: 6.439 min Scan# 859
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:108 Resp: 16968

Ion	Ratio	Lower	Upper
108	100		
107	93.6	70.7	106.1
90	25.1	18.7	28.1

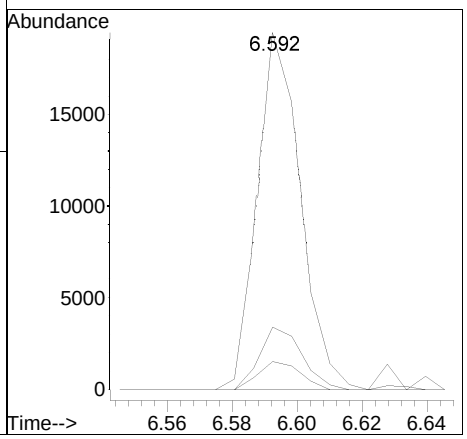


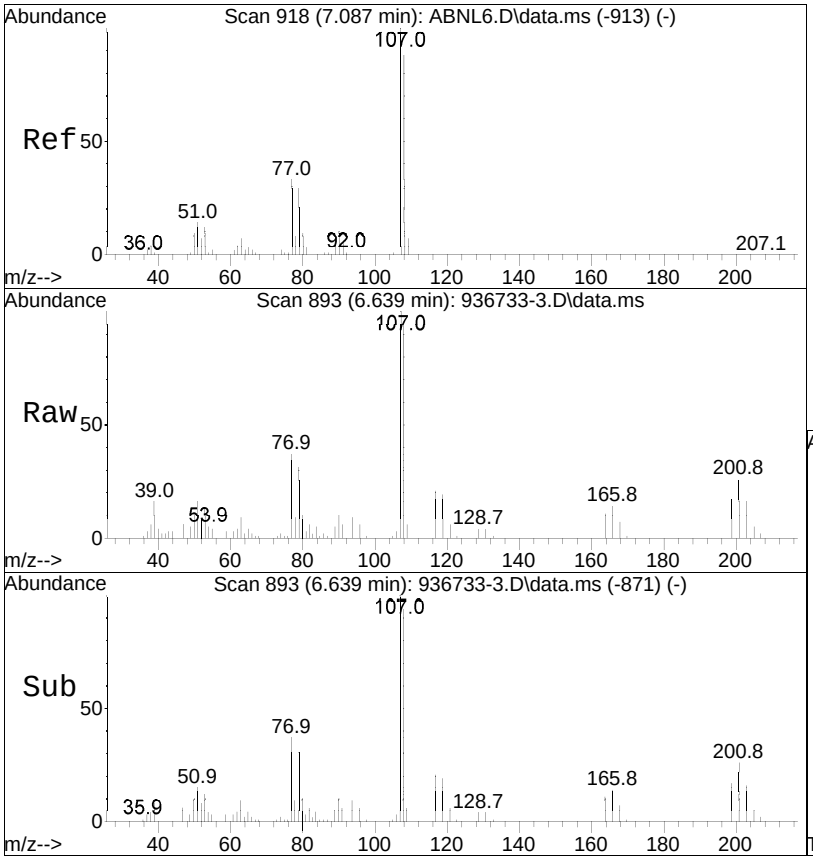


#17
n-Nitrosodi-n-propylamine
Concen: 1.31 ug/ml
RT: 6.592 min Scan# 885
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 70 Resp: 17942

Ion	Ratio	Lower	Upper
70	100		
130	17.2	18.2	27.4#
101	7.7	7.8	11.8#

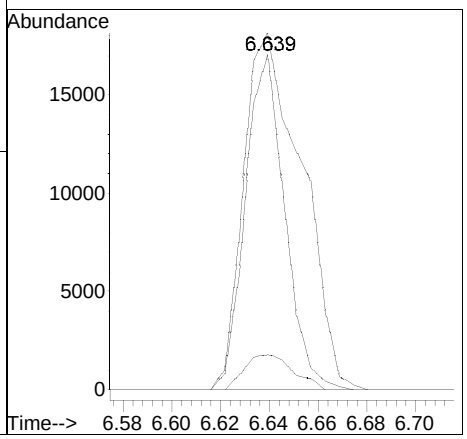


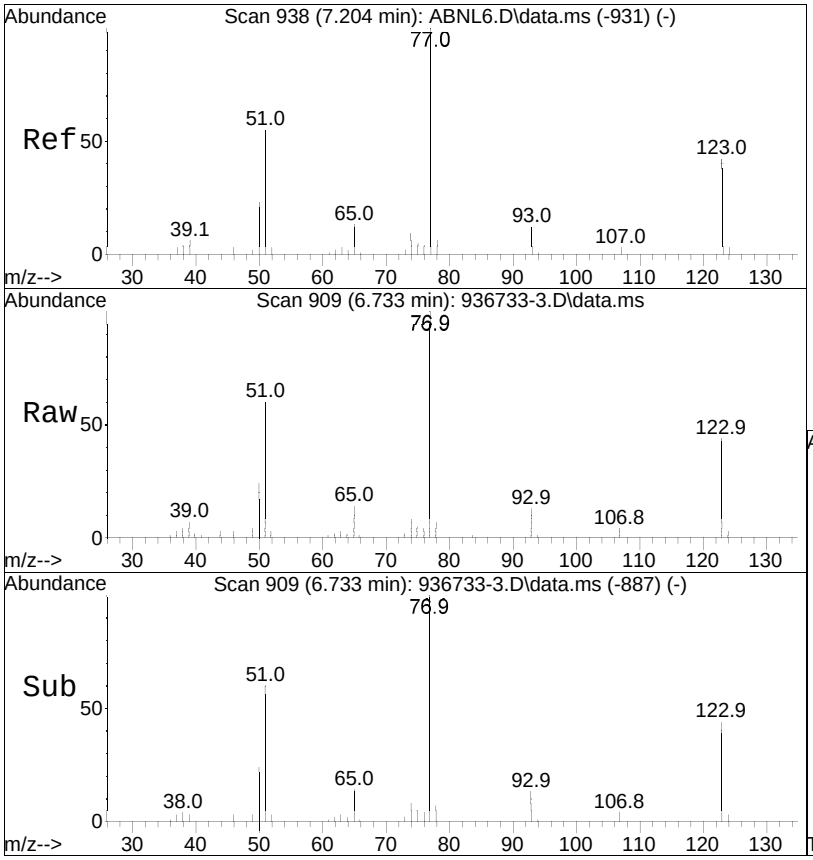


#18
3-Methylphenol/4-Methylphenol
Concen: 1.13 ug/ml
RT: 6.639 min Scan# 893
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:108 Resp: 19171

Ion	Ratio	Lower	Upper
108	100		
107	156.9	88.6	132.8#
90	12.9	8.8	13.2

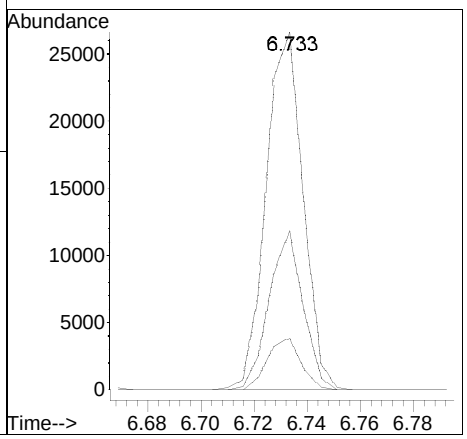


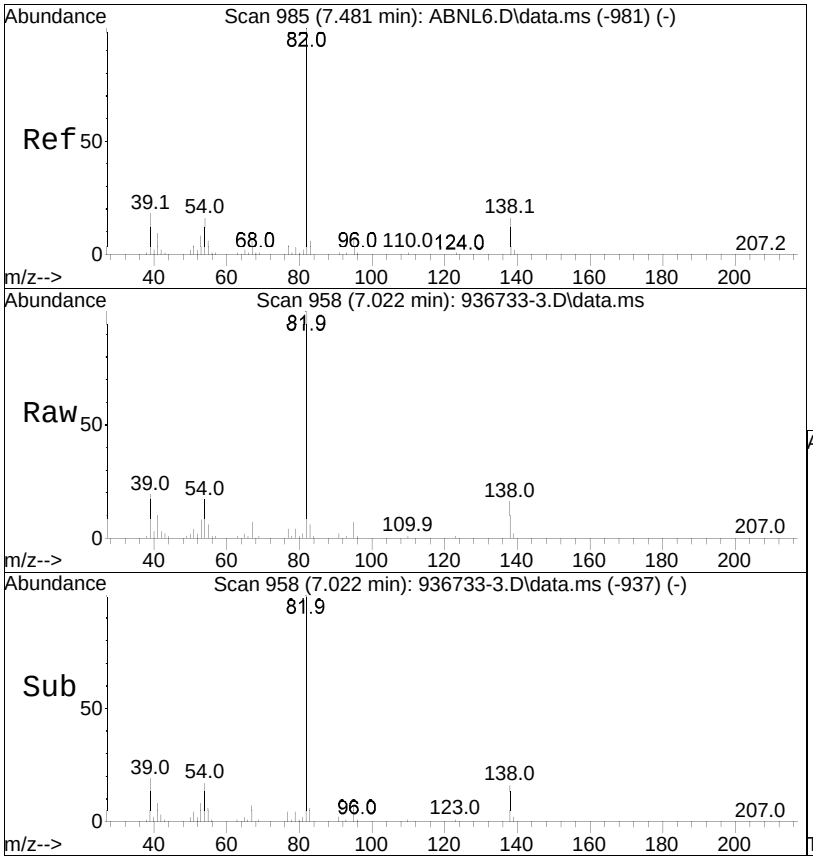


#20
Nitrobenzene
Concen: 1.36 ug/ml
RT: 6.733 min Scan# 909
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 77 Resp: 25454

Ion	Ratio	Lower	Upper
77	100		
123	40.9	36.3	54.5
65	13.3	11.6	17.4

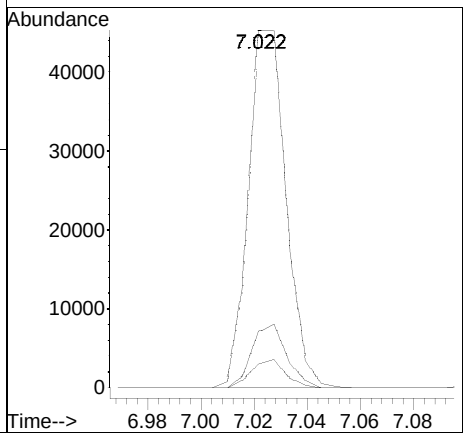


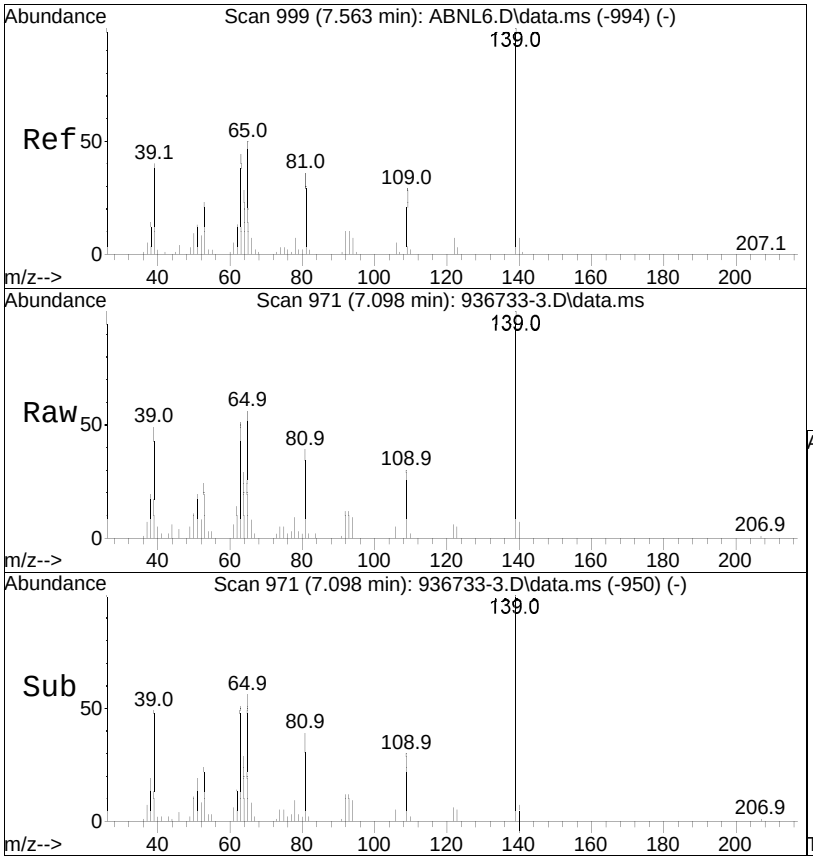


#21
Isophorone
Concen: 1.23 ug/ml
RT: 7.022 min Scan# 958
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 82 Resp: 44190

Ion	Ratio	Lower	Upper
82	100		
138	16.5	14.7	22.1
95	7.3	5.2	7.8

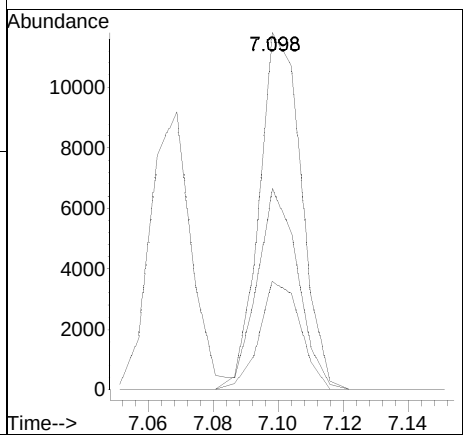


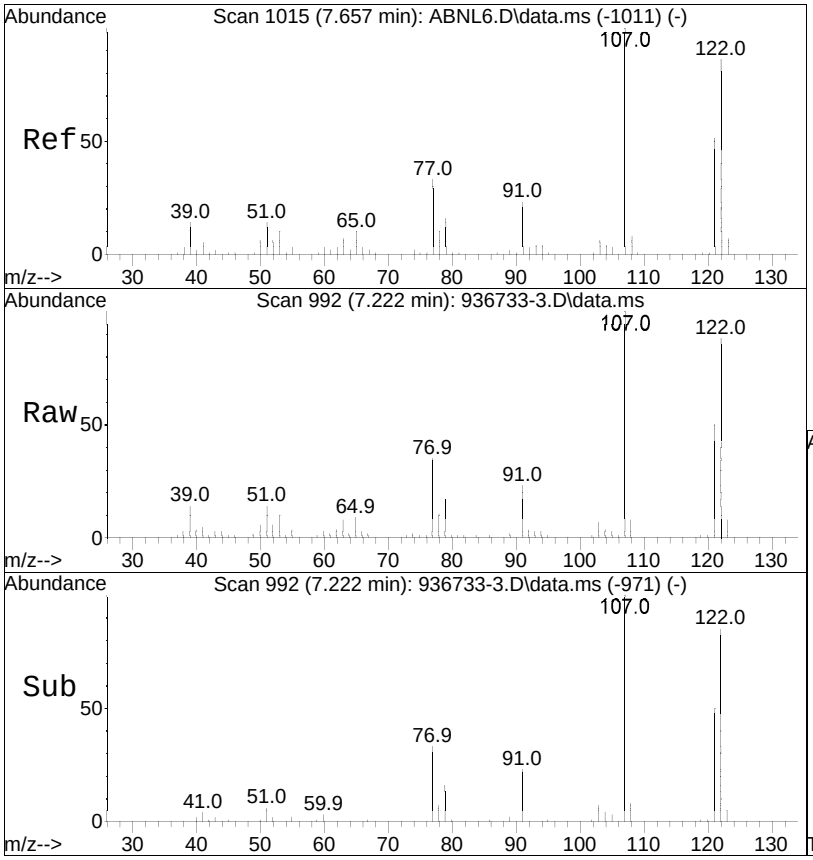


#22
2-Nitrophenol
Concen: 1.28 ug/ml
RT: 7.098 min Scan# 971
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:139 Resp: 10647

Ion	Ratio	Lower	Upper
139	100		
109	29.7	19.4	29.0#
65	53.7	46.1	69.1

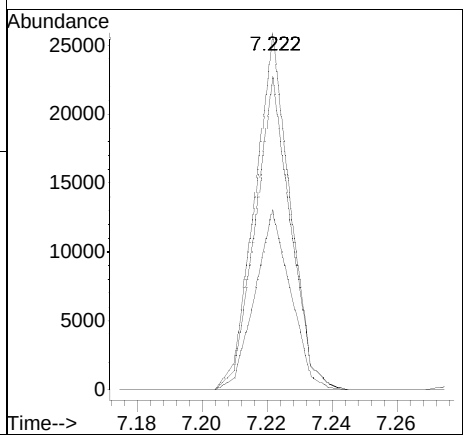


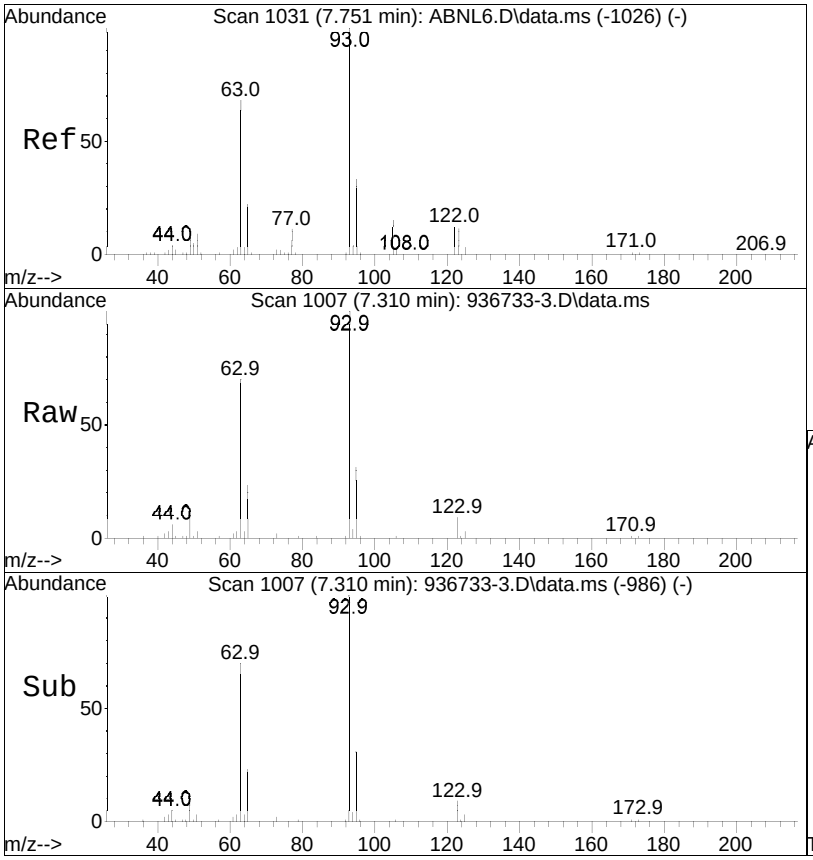


#23
2,4-Dimethylphenol
Concen: 1.14 ug/ml
RT: 7.222 min Scan# 992
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:107 Resp: 19409

Ion	Ratio	Lower	Upper
107	100		
121	51.1	40.0	60.0
122	87.8	70.2	105.4

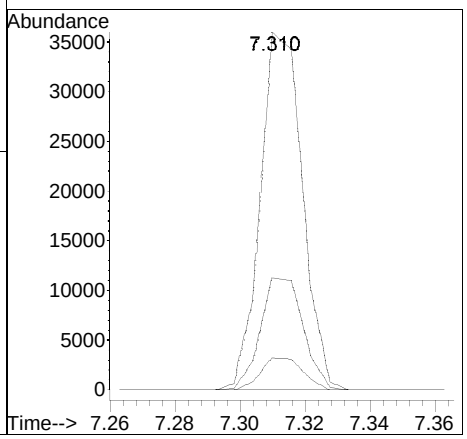


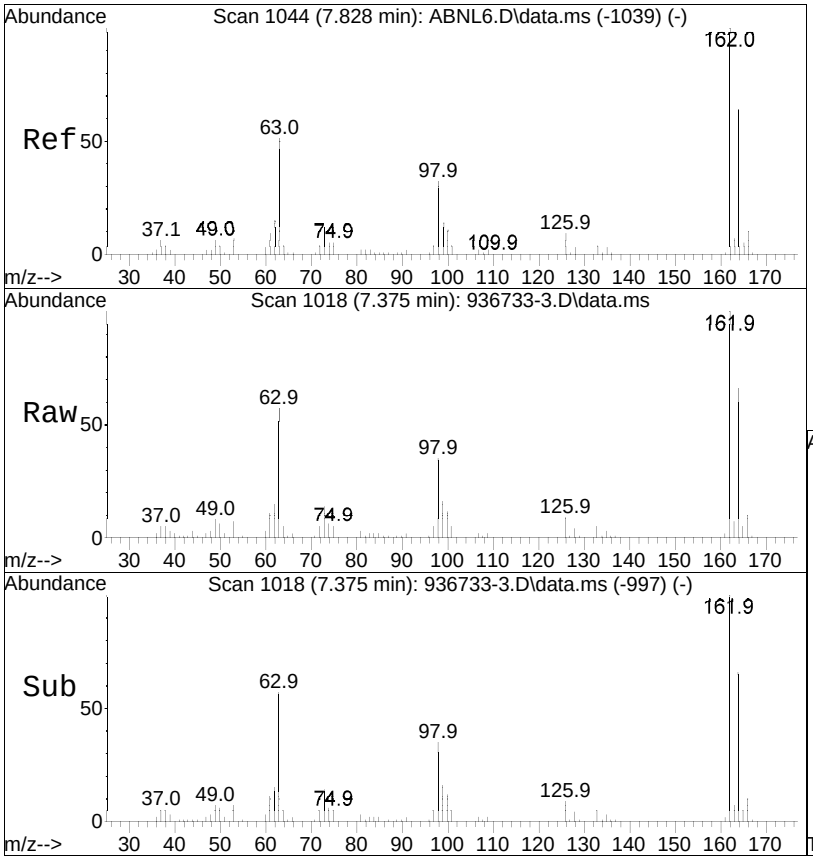


#24
Bis(2-chloroethoxy)methane
Concen: 1.36 ug/ml
RT: 7.310 min Scan# 1007
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 93 Resp: 32070

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	9.1	10.1	15.1#

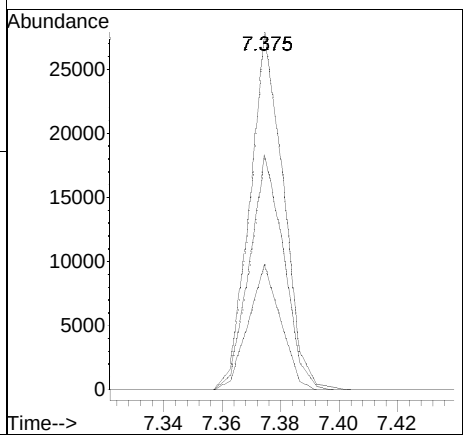


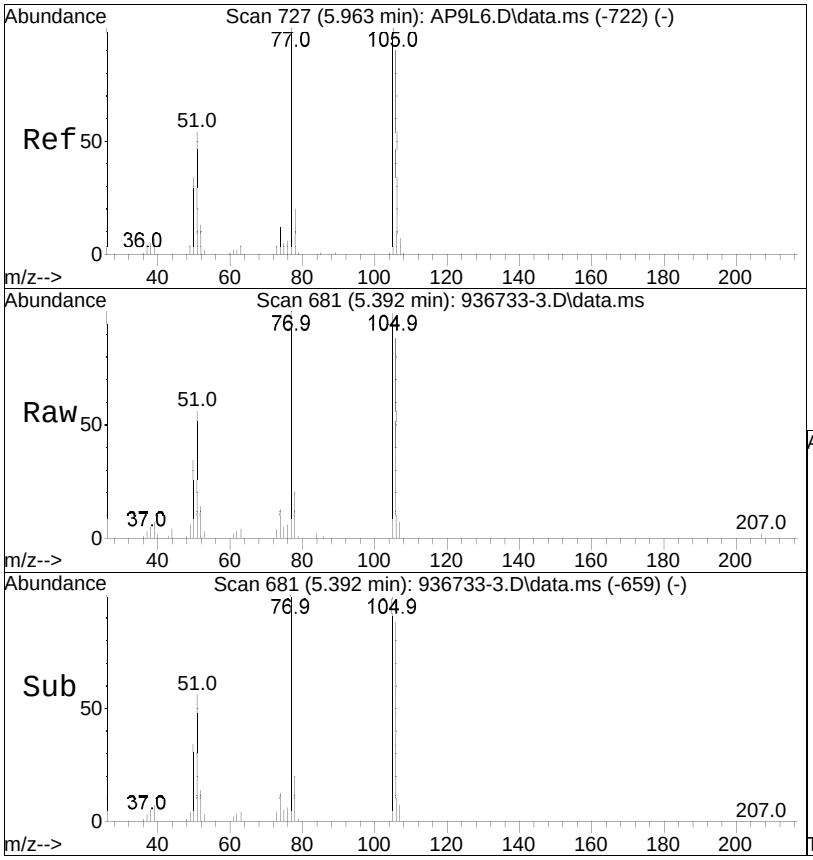


#25
2,4-Dichlorophenol
Concen: 1.29 ug/ml
RT: 7.375 min Scan# 1018
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:162 Resp: 22028

Ion	Ratio	Lower	Upper
162	100		
164	67.1	51.0	76.4
98	34.0	32.2	48.2

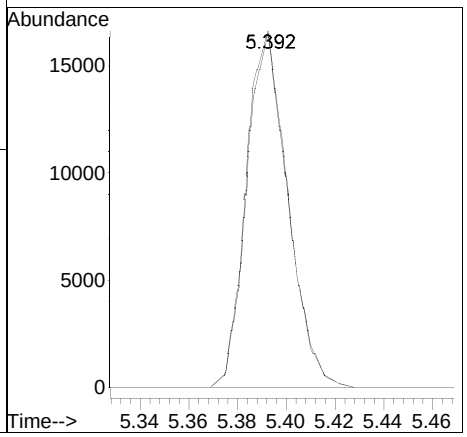


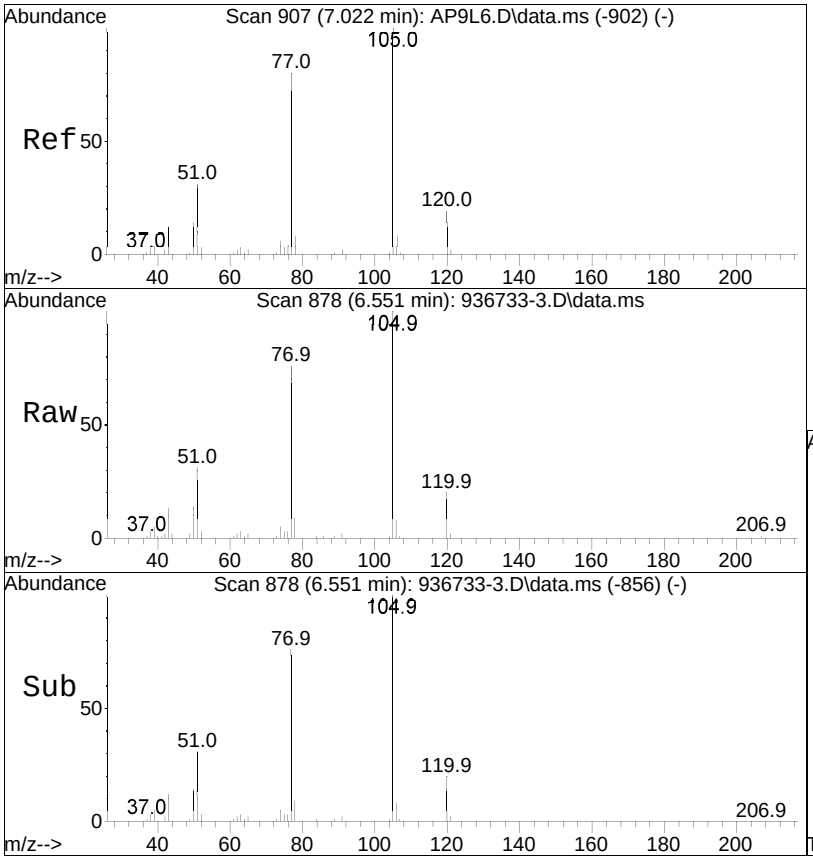


#28
Benzaldehyde
Concen: 1.20 ug/ml
RT: 5.392 min Scan# 681
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:105 Resp: 19224

Ion	Ratio	Lower	Upper
105	100		
77	102.5	82.2	123.4

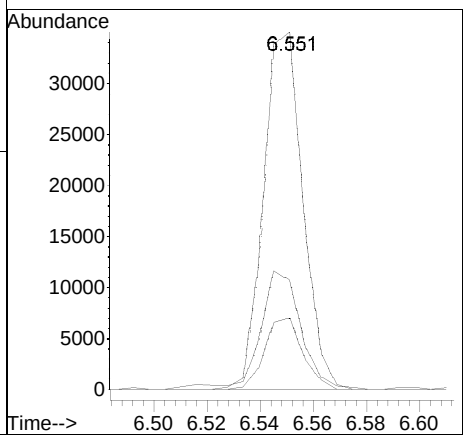


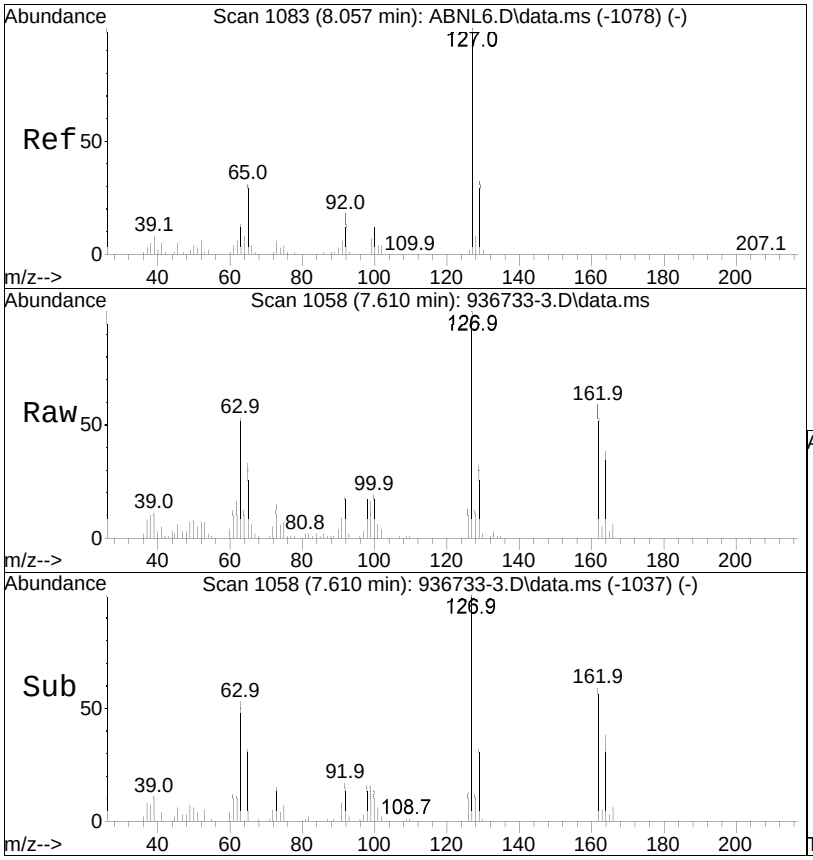


#29
Acetophenone
Concen: 1.29 ug/ml
RT: 6.551 min Scan# 878
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:105 Resp: 35619

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	34.8	34.9	52.3#

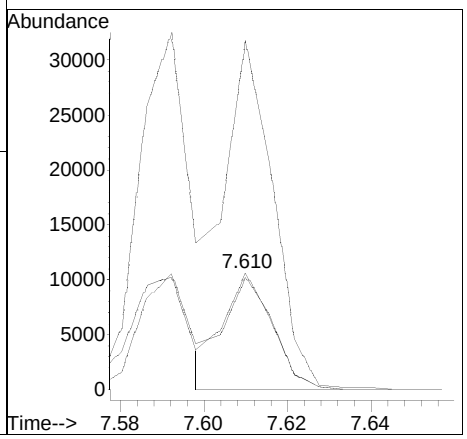


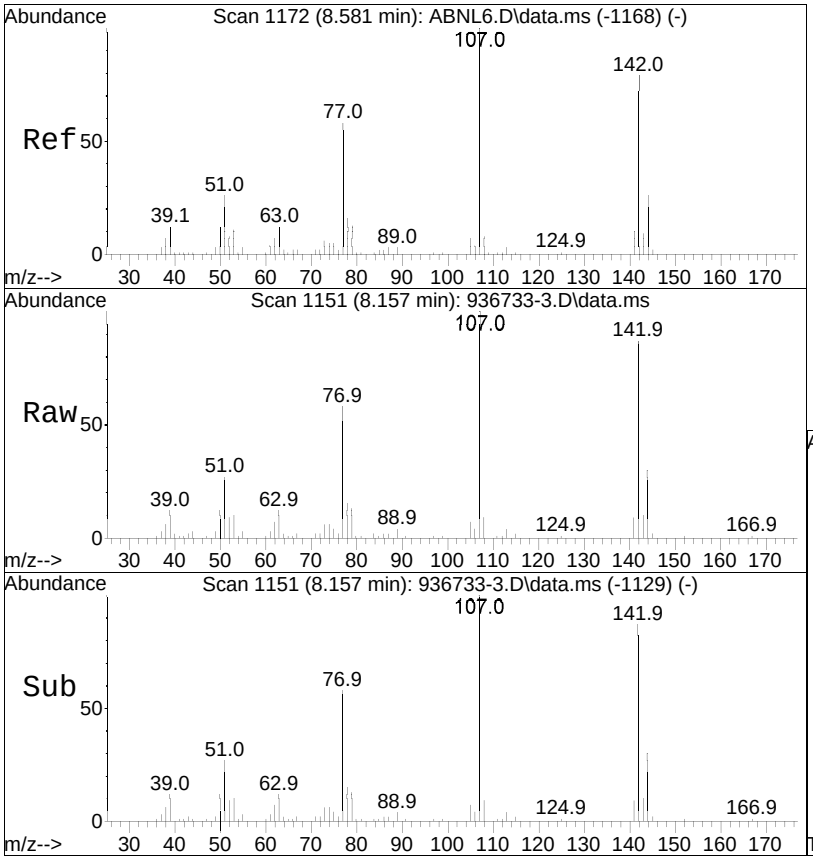


#37
4-Chloroaniline
Concen: 1.21 ug/ml
RT: 7.610 min Scan# 1058
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 65 Resp: 8550

Ion	Ratio	Lower	Upper
65	100		
127	238.4	237.6	356.4
129	76.8	76.3	114.5

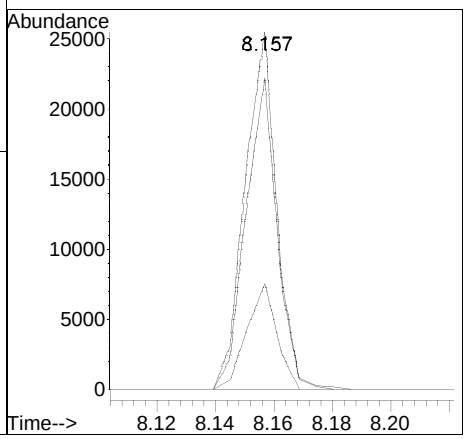


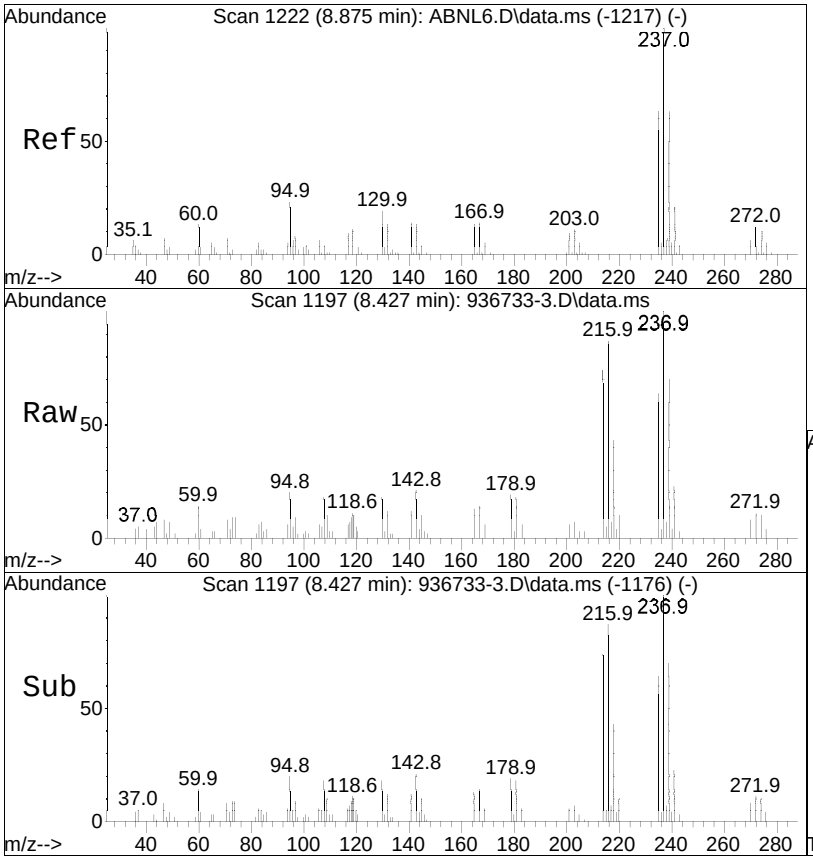


#39
p-Chloro-m-cresol
Concen: 1.24 ug/ml
RT: 8.157 min Scan# 1151
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:107 Resp: 18958

Ion	Ratio	Lower	Upper
107	100		
144	28.1	20.9	31.3
142	85.2	66.1	99.1

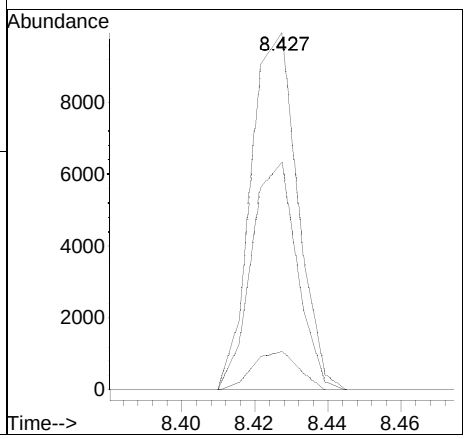


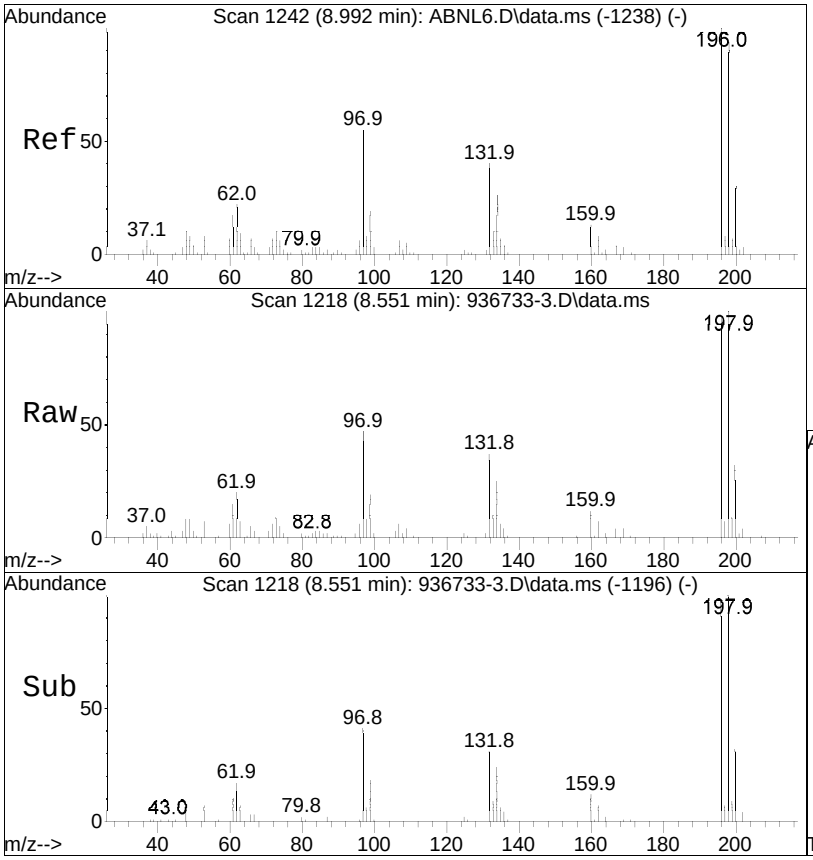


#42
Hexachlorocyclopentadiene
Concen: 0.76 ug/ml
RT: 8.427 min Scan# 1197
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:237 Resp: 8816

Ion	Ratio	Lower	Upper
237	100		
235	62.5	49.7	74.5
272	10.7	9.8	14.6

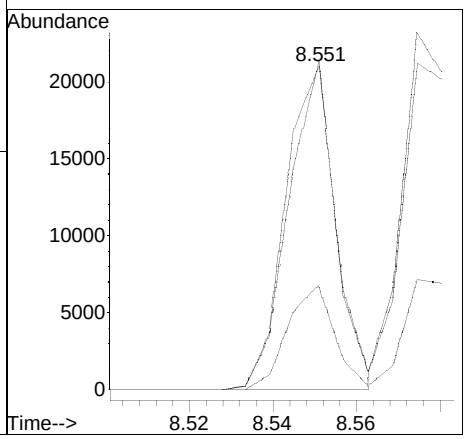


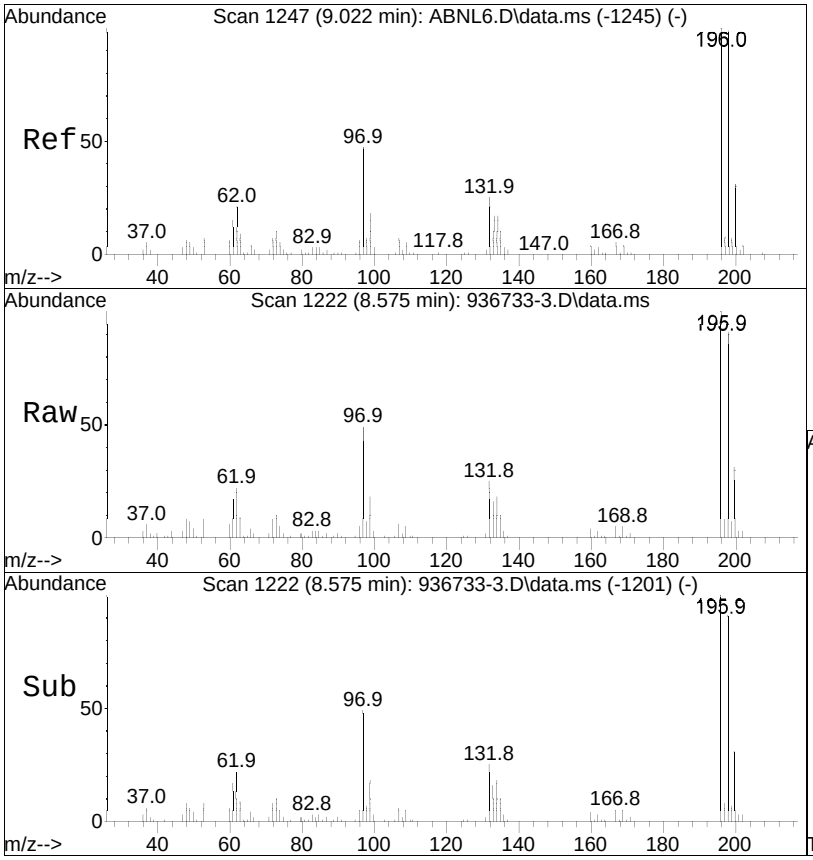


#43
2,4,6-Trichlorophenol
Concen: 1.31 ug/ml
RT: 8.551 min Scan# 1218
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:196 Resp: 17505

Ion	Ratio	Lower	Upper
196	100		
198	94.5	77.5	116.3
200	30.4	23.8	35.6

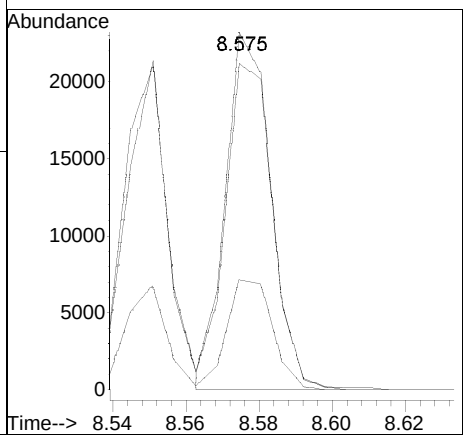


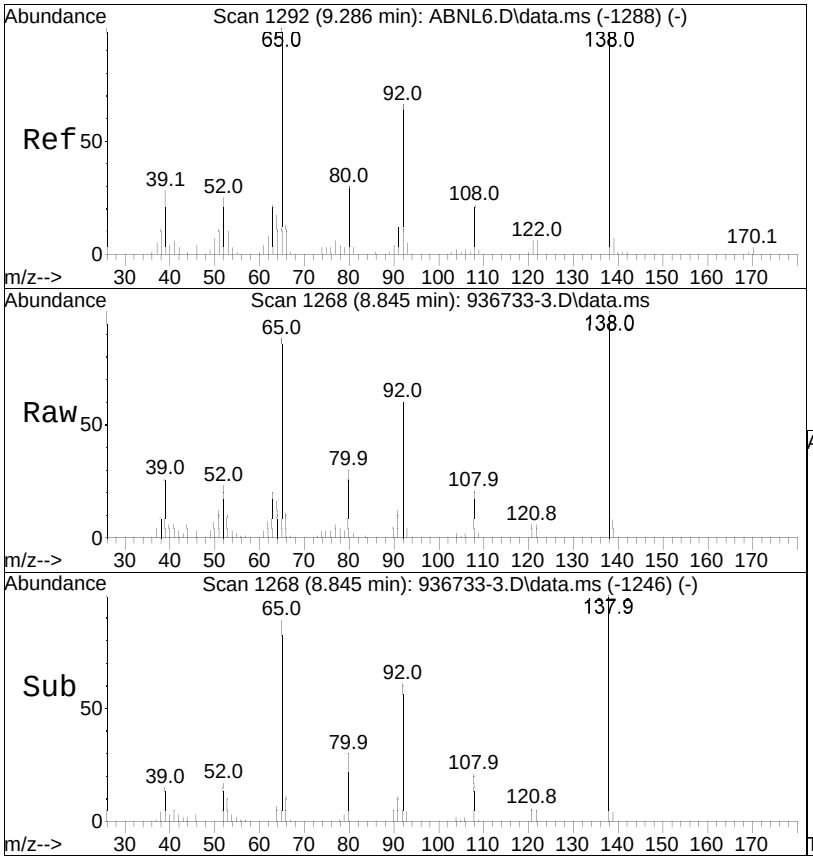


#44
2,4,5-Trichlorophenol
Concen: 1.41 ug/ml
RT: 8.575 min Scan# 1222
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:196 Resp: 19975

Ion	Ratio	Lower	Upper
196	100		
200	31.3	25.4	38.0
198	95.2	78.0	117.0

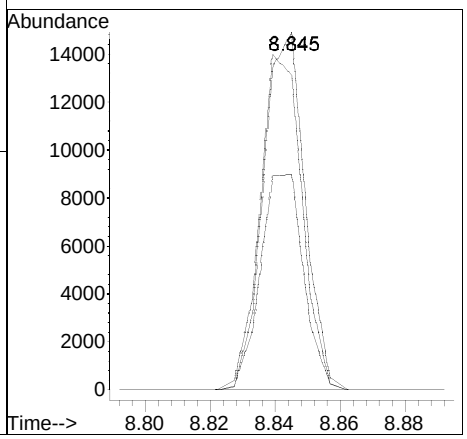


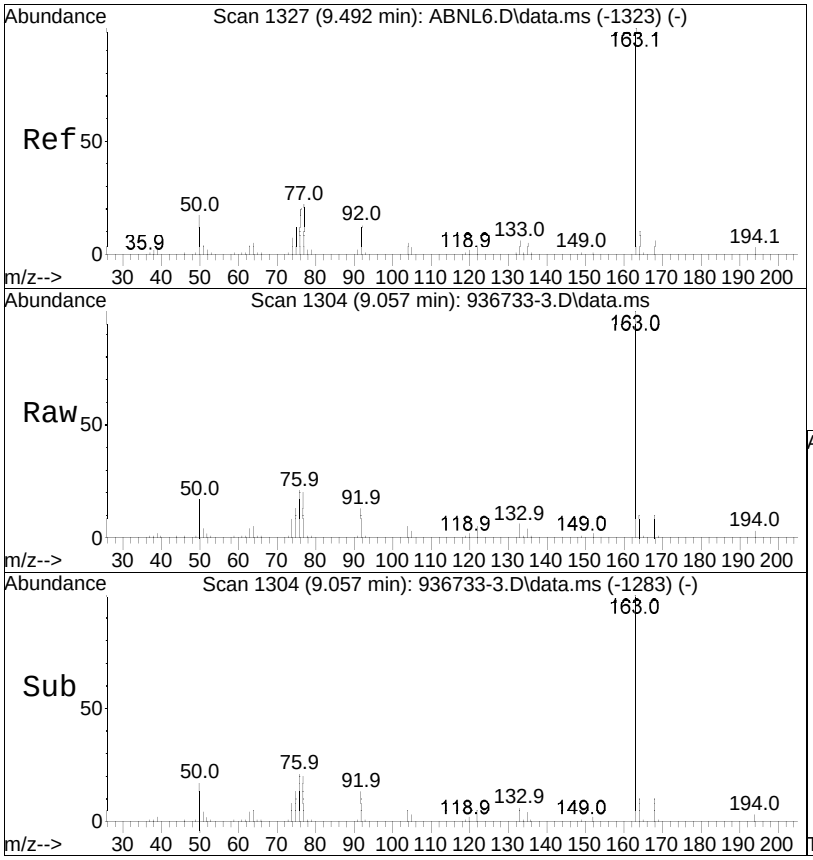


#47
2-Nitroaniline
Concen: 1.35 ug/ml
RT: 8.845 min Scan# 1268
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:138 Resp: 13175

Ion	Ratio	Lower	Upper
138	100		
92	62.8	53.5	80.3
65	94.9	86.3	129.5

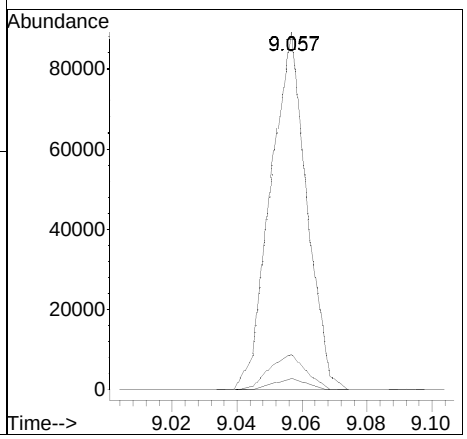


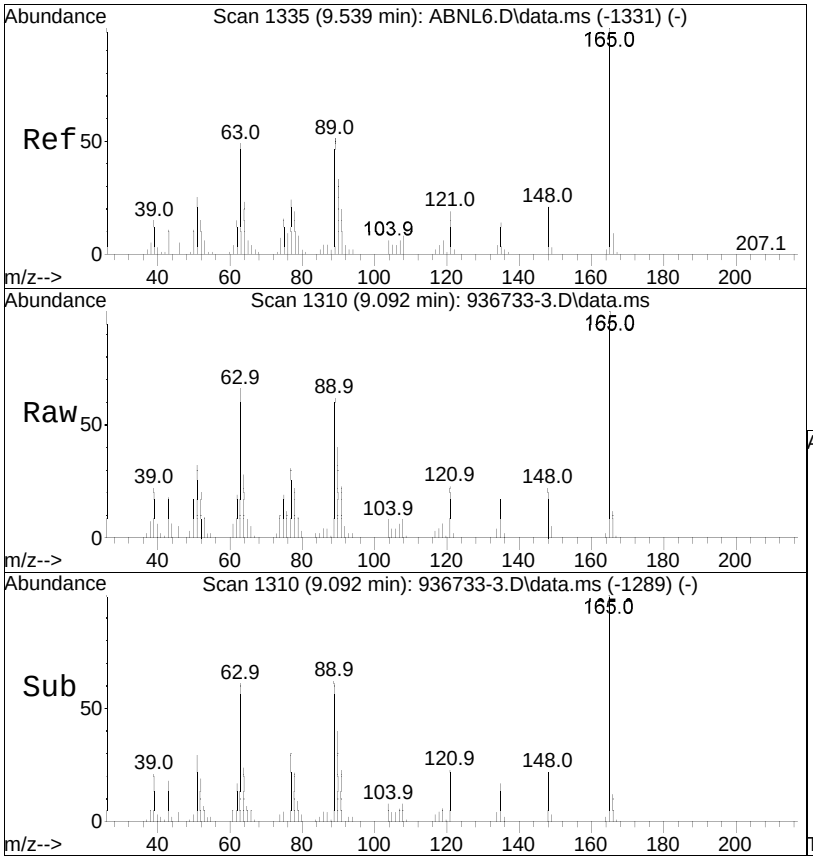


#50
Dimethyl phthalate
Concen: 1.44 ug/ml
RT: 9.057 min Scan# 1304
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:163 Resp: 67993

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.3	7.9	11.9

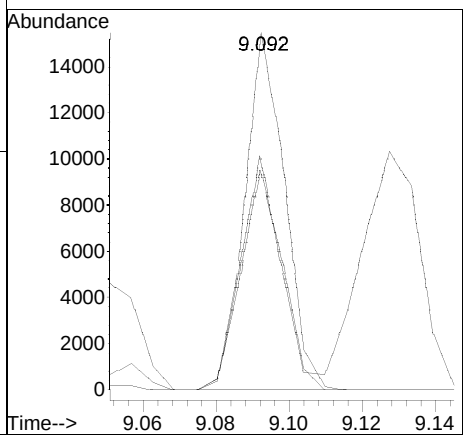


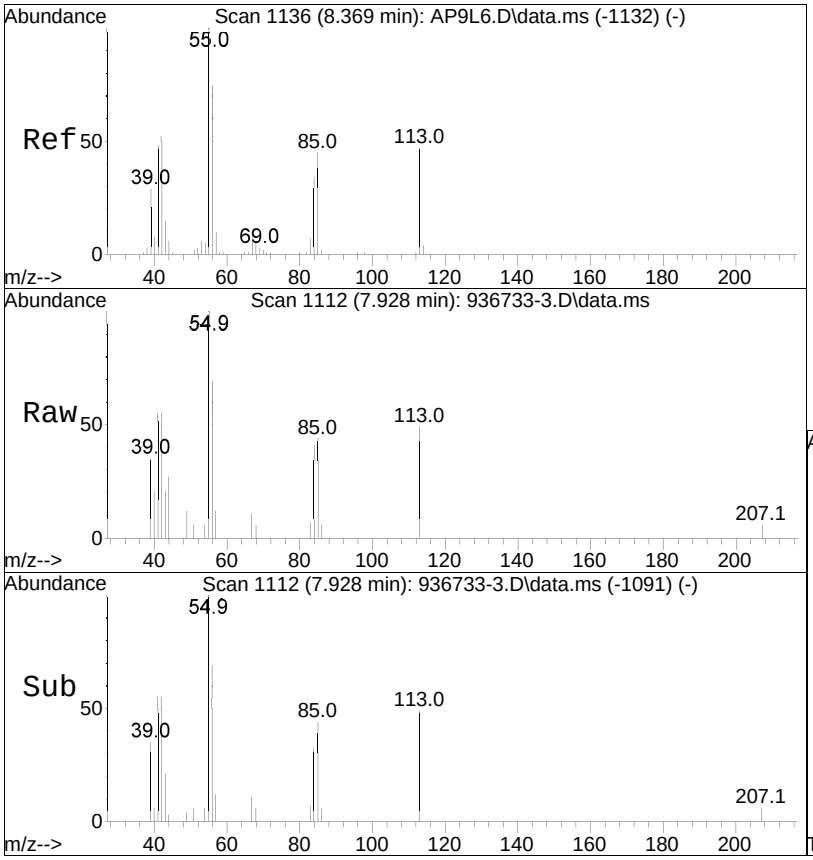


#52
2,6-Dinitrotoluene
Concen: 1.37 ug/ml
RT: 9.092 min Scan# 1310
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:165 Resp: 11804

Ion	Ratio	Lower	Upper
165	100		
89	63.6	54.2	81.2
63	66.4	64.2	96.2

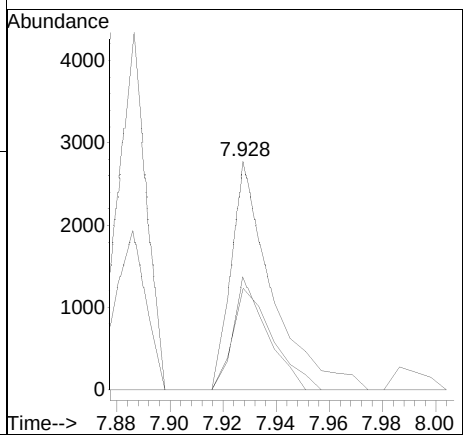


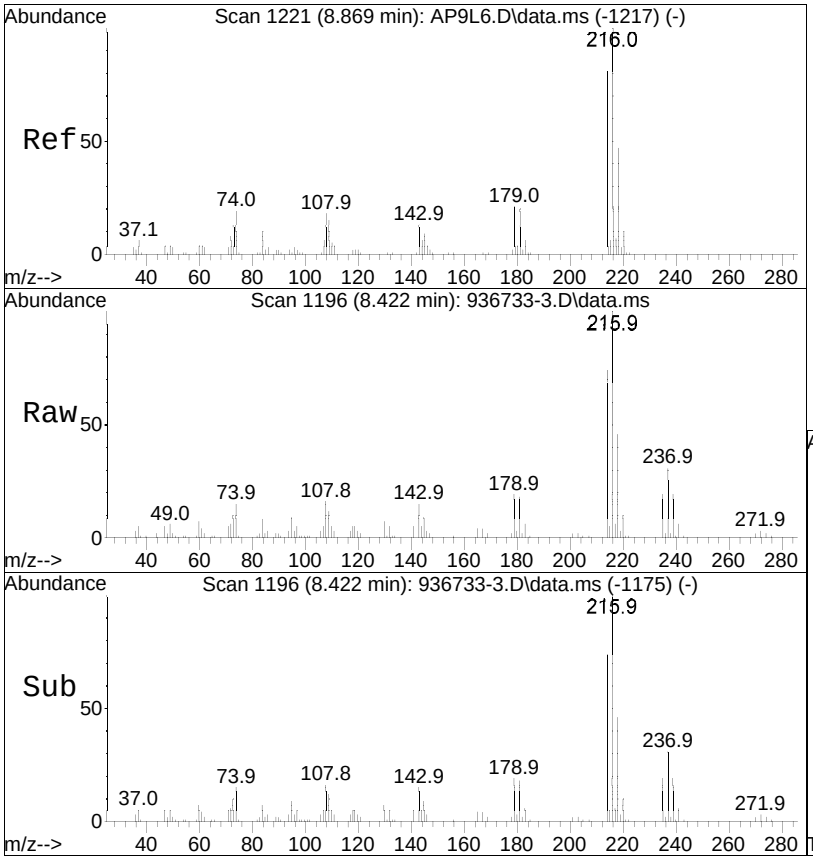


#59
Caprolactam
Concen: 0.36 ug/ml
RT: 7.928 min Scan# 1112
Delta R.T. 0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 55 Resp: 2987

Ion	Ratio	Lower	Upper
55	100		
85	43.6	19.8	29.6#
113	40.3	29.6	44.4

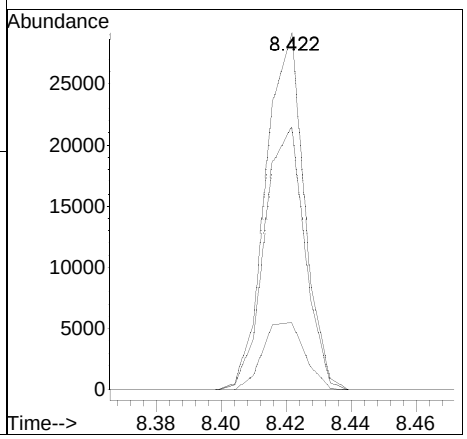


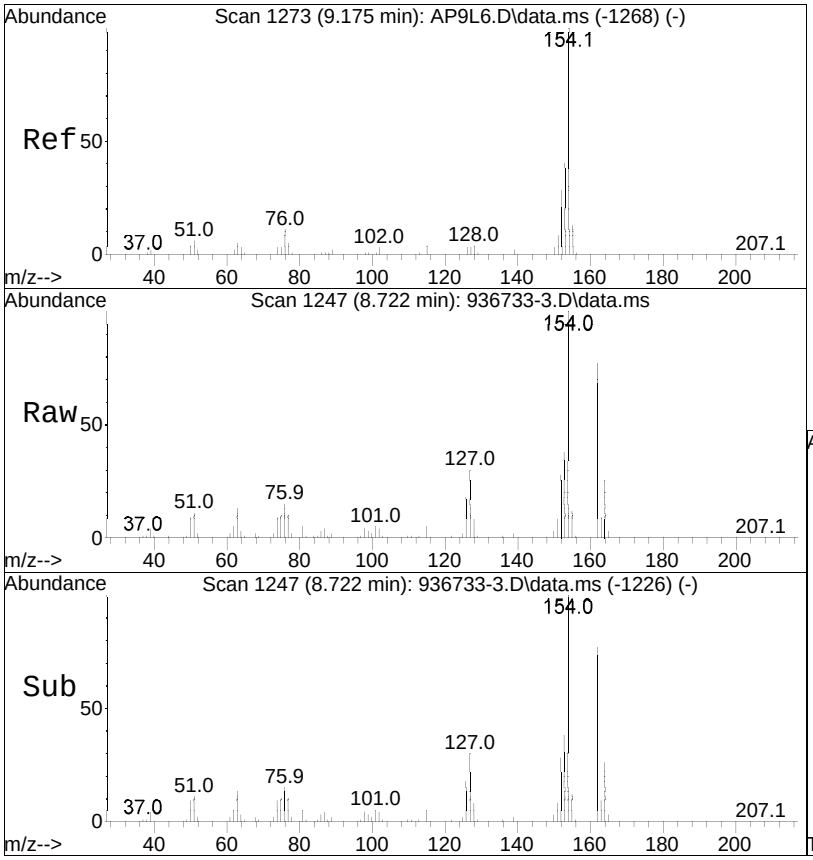


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.06 ug/ml
RT: 8.422 min Scan# 1196
Delta R.T. 0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:216 Resp: 24027

Ion	Ratio	Lower	Upper
216	100		
214	77.1	63.7	95.5
179	20.7	19.0	28.6

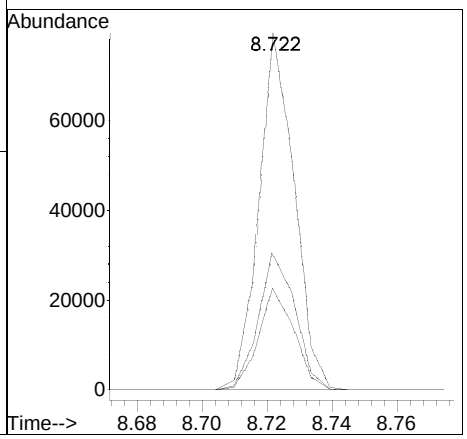


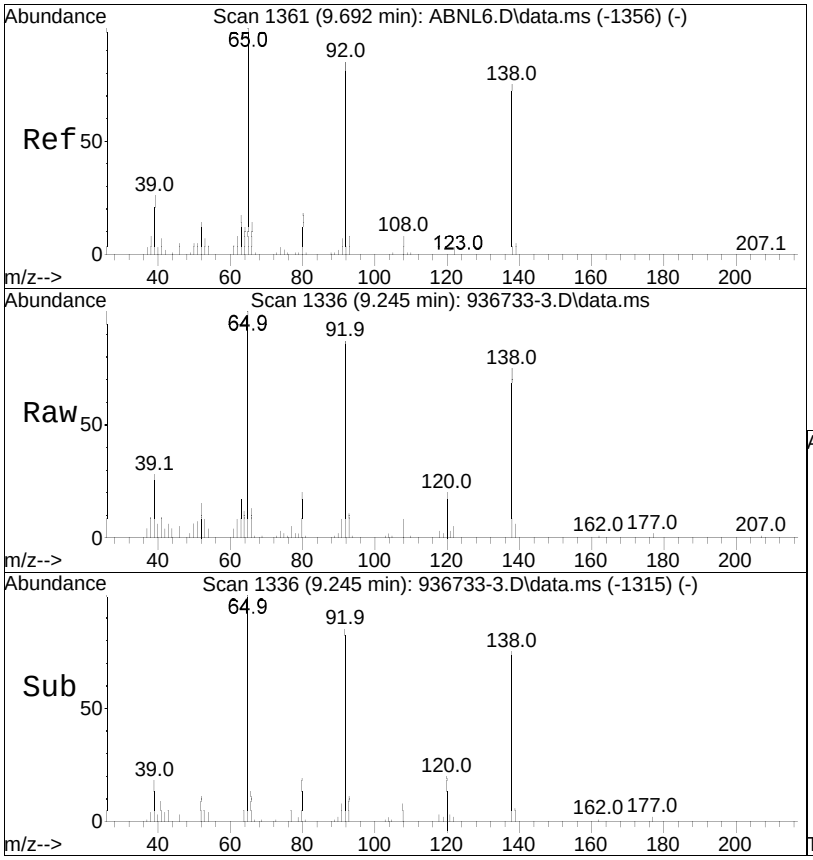


#61
Biphenyl
Concen: 1.14 ug/ml
RT: 8.722 min Scan# 1247
Delta R.T. 0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:154 Resp: 59500

Ion	Ratio	Lower	Upper
154	100		
153	40.0	32.3	48.5
152	29.0	22.5	33.7

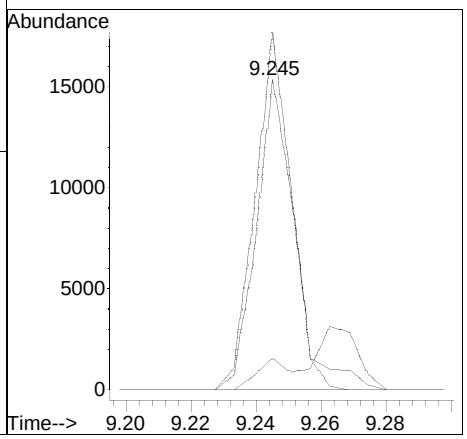


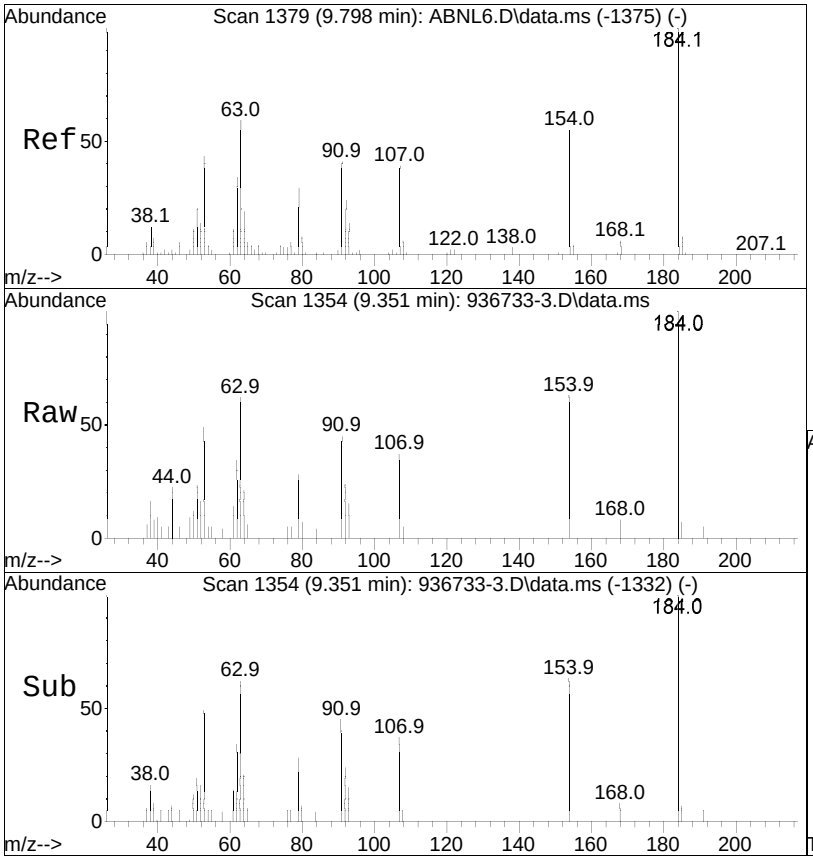


#63
3-Nitroaniline
Concen: 1.28 ug/ml
RT: 9.245 min Scan# 1336
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:138 Resp: 11821

Ion	Ratio	Lower	Upper
138	100		
92	121.5	93.4	140.2
108	32.7	9.5	14.3#

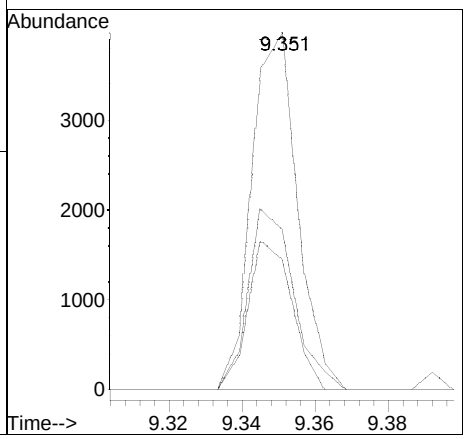


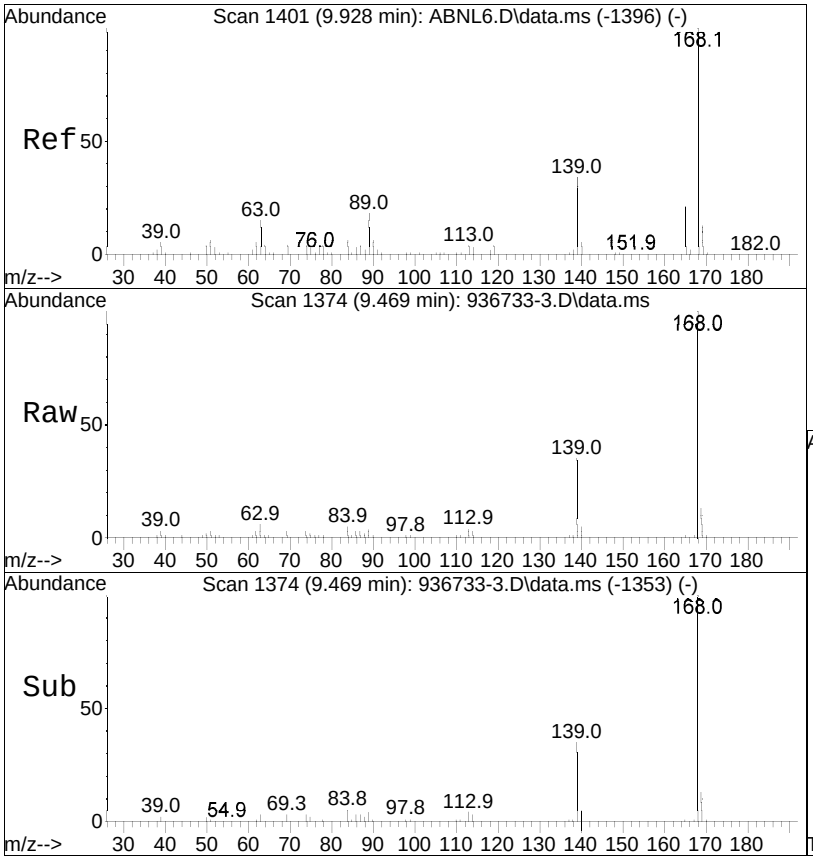


#65
2,4-Dinitrophenol
Concen: 1.51 ug/ml
RT: 9.351 min Scan# 1354
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:184 Resp: 3446

Ion	Ratio	Lower	Upper
184	100		
107	40.1	37.7	56.5
91	50.6	46.3	69.5

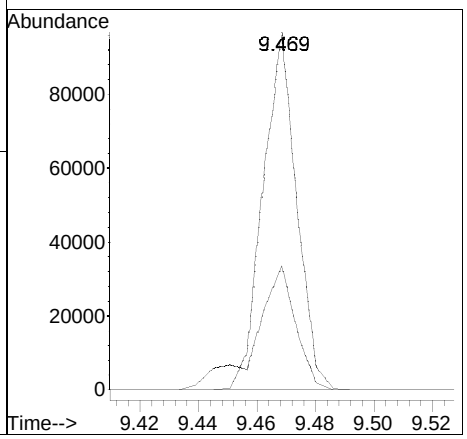


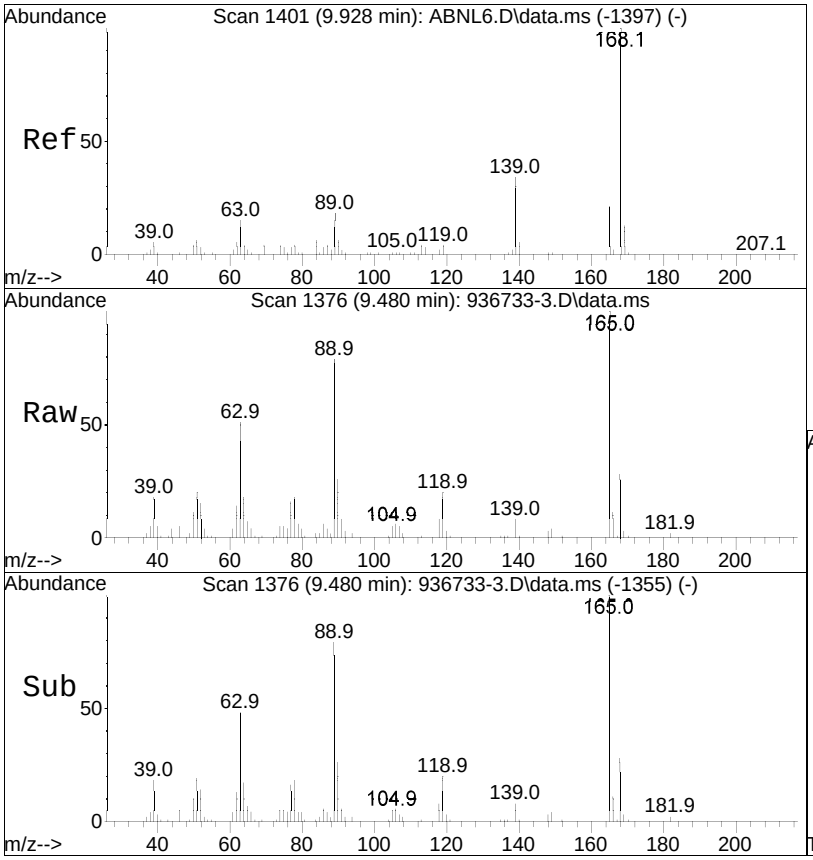


#66
Dibenzofuran
Concen: 1.22 ug/ml
RT: 9.469 min Scan# 1374
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:168 Resp: 76315

Ion	Ratio	Lower	Upper
168	100		
139	42.0	31.4	47.2

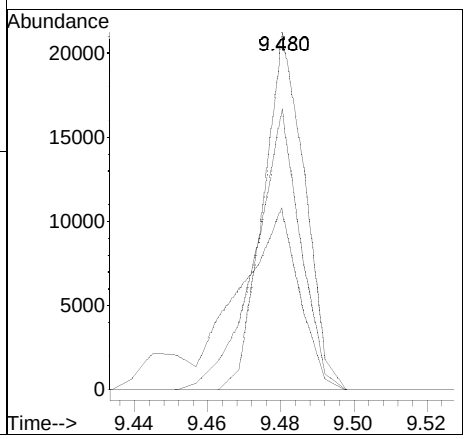


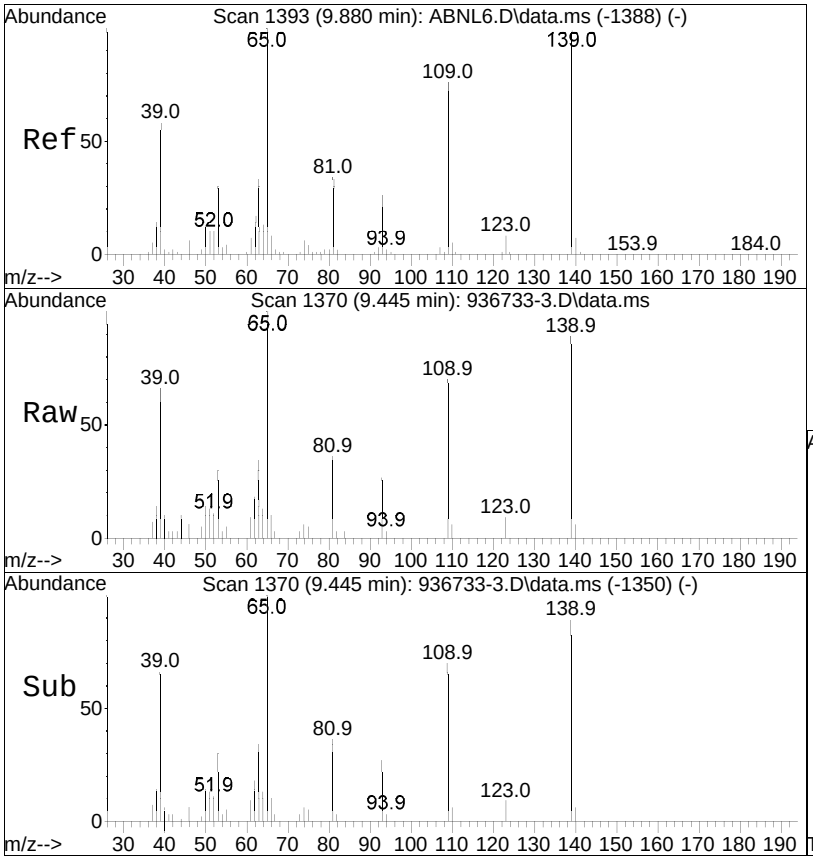


#67
2,4-Dinitrotoluene
Concen: 1.48 ug/ml
RT: 9.480 min Scan# 1376
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:165 Resp: 16535

Ion	Ratio	Lower	Upper
165	100		
89	85.9	72.0	108.0
63	85.6	52.7	79.1#

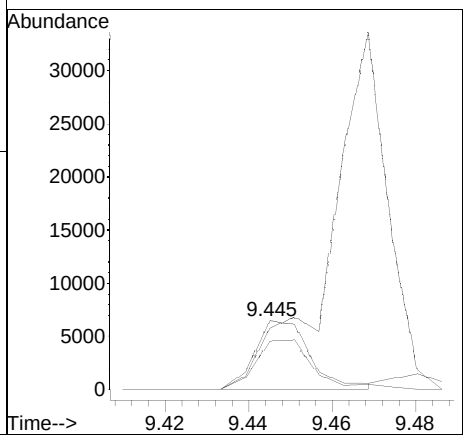


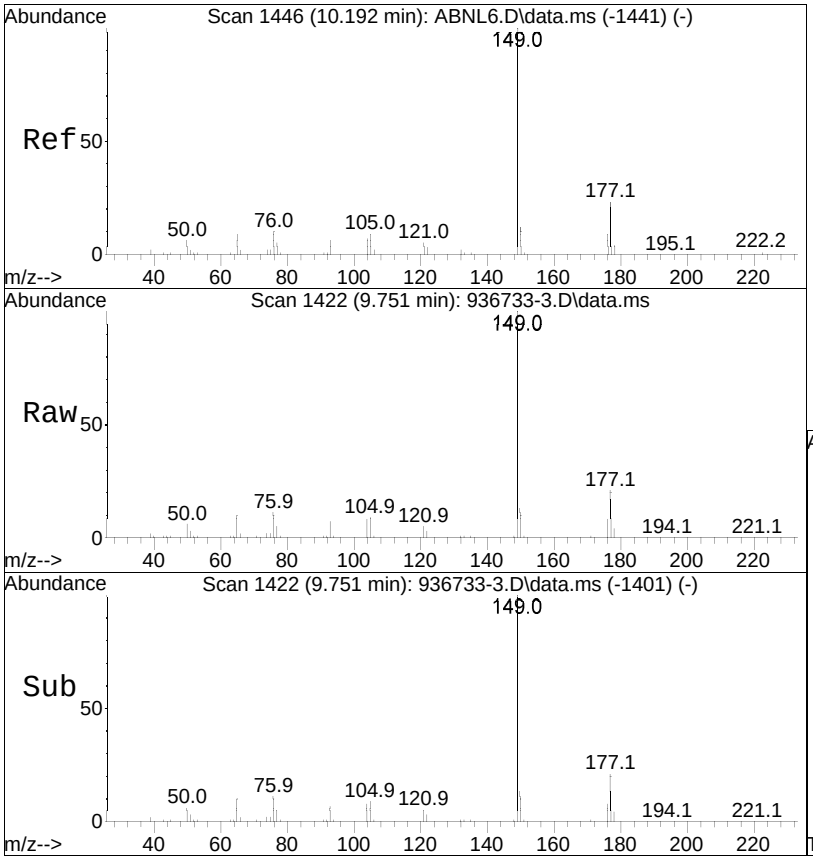


#68
4-Nitrophenol
Concen: 0.76 ug/ml
RT: 9.445 min Scan# 1370
Delta R.T. -0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion: 65 Resp: 5996

Ion	Ratio	Lower	Upper
65	100		
109	74.4	47.4	71.2#
139	0.0	76.6	115.0#

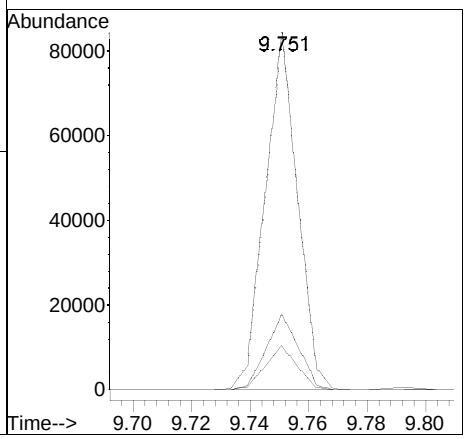


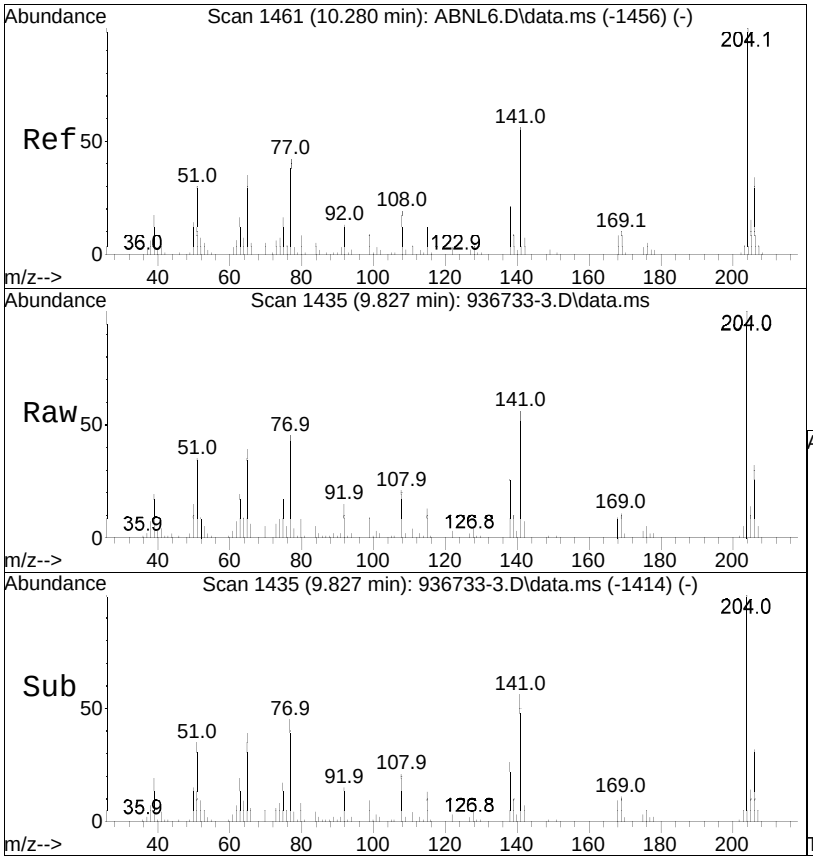


#71
Diethyl phthalate
Concen: 1.38 ug/ml
RT: 9.751 min Scan# 1422
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:149 Resp: 64051

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.1	24.1
150	12.4	9.4	14.2

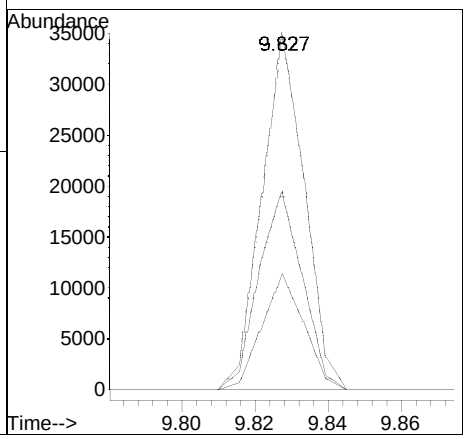


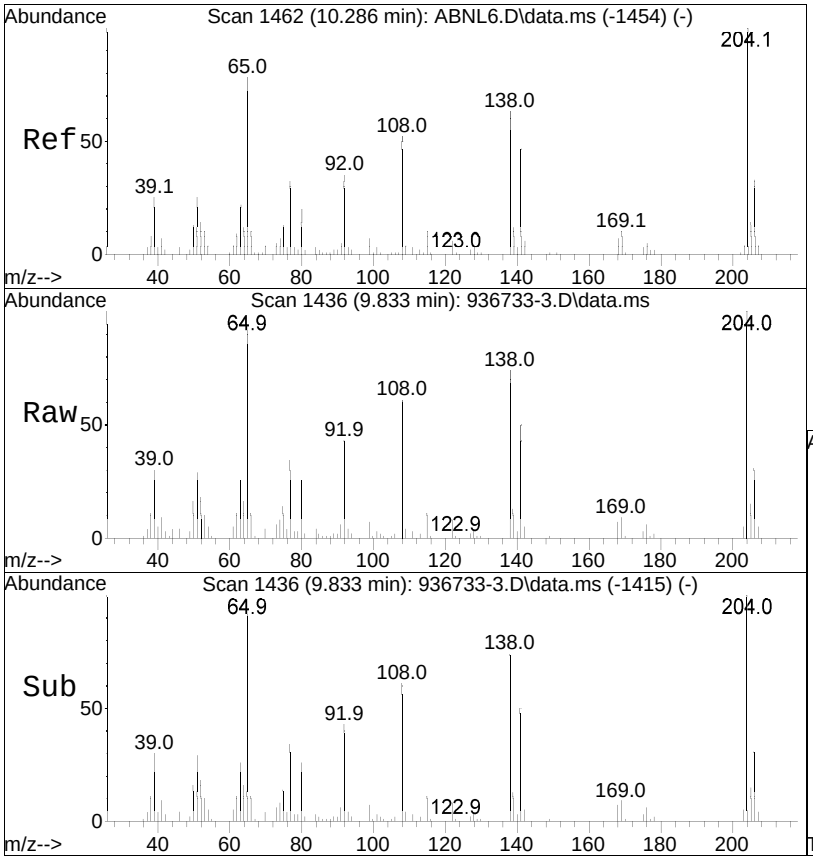


#73
4-Chlorophenyl phenyl ether
Concen: 1.17 ug/ml
RT: 9.827 min Scan# 1435
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:204 Resp: 28065

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.6
141	57.3	53.6	80.4

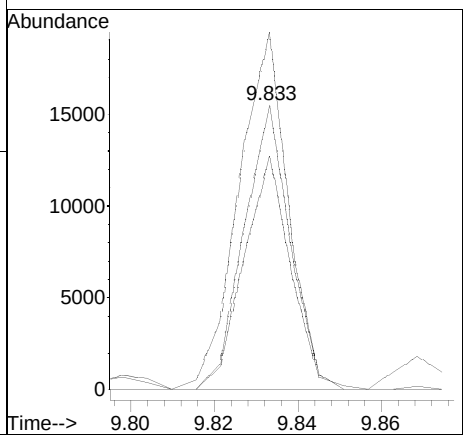


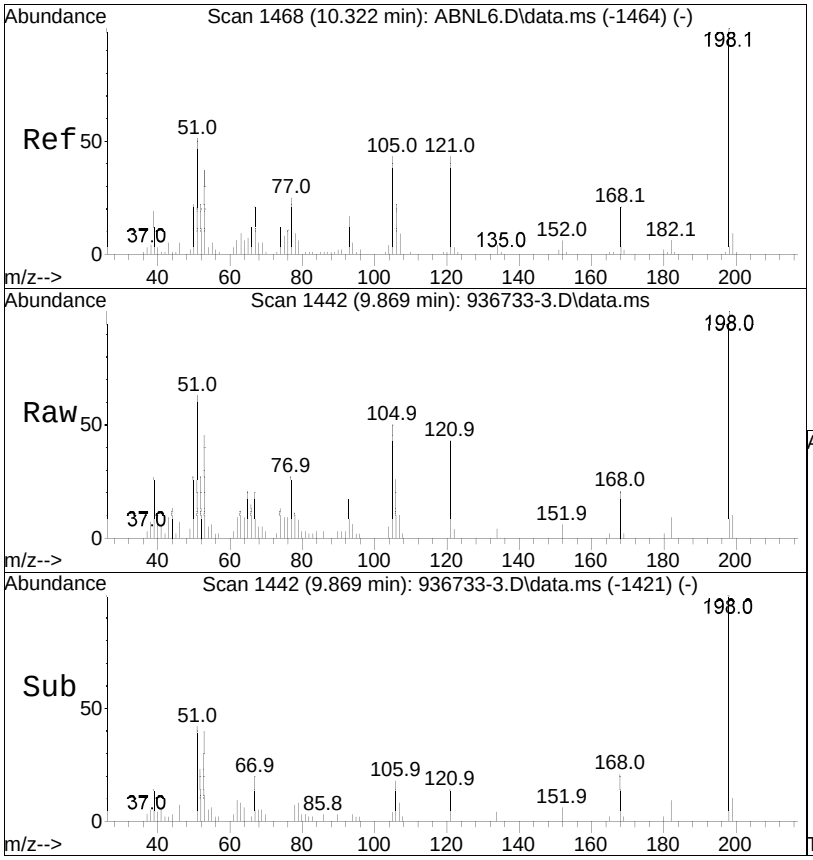


#74
4-Nitroaniline
Concen: 1.26 ug/ml
RT: 9.833 min Scan# 1436
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:138 Resp: 11809

Ion	Ratio	Lower	Upper
138	100		
108	83.5	52.1	78.1#
65	134.8	115.0	172.6

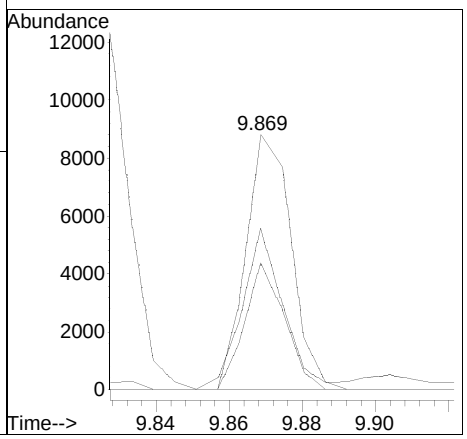


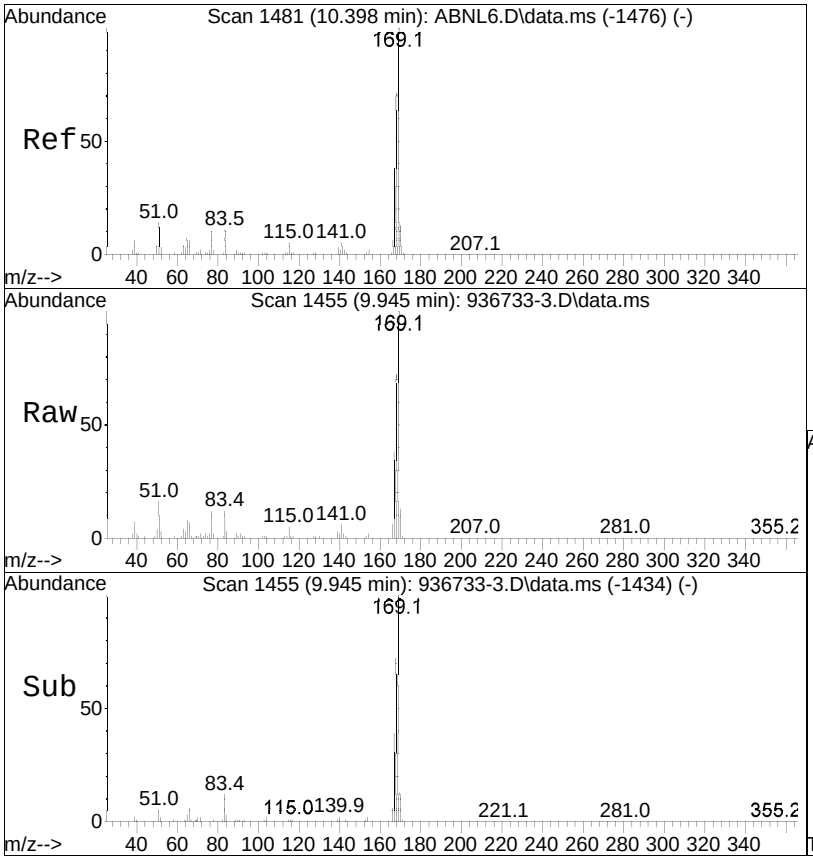


#75
4,6-Dinitro-o-cresol
Concen: 1.47 ug/ml
RT: 9.869 min Scan# 1442
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:198 Resp: 7596

Ion	Ratio	Lower	Upper
198	100		
51	58.2	76.0	114.0#
105	43.7	45.6	68.4#

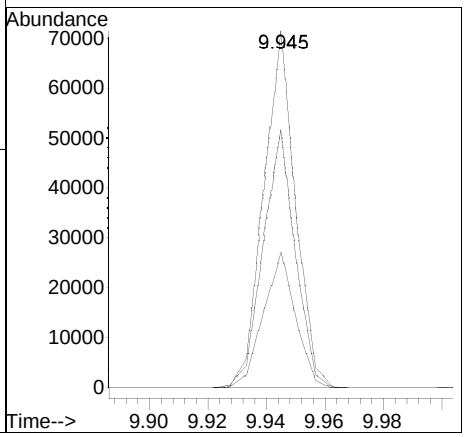


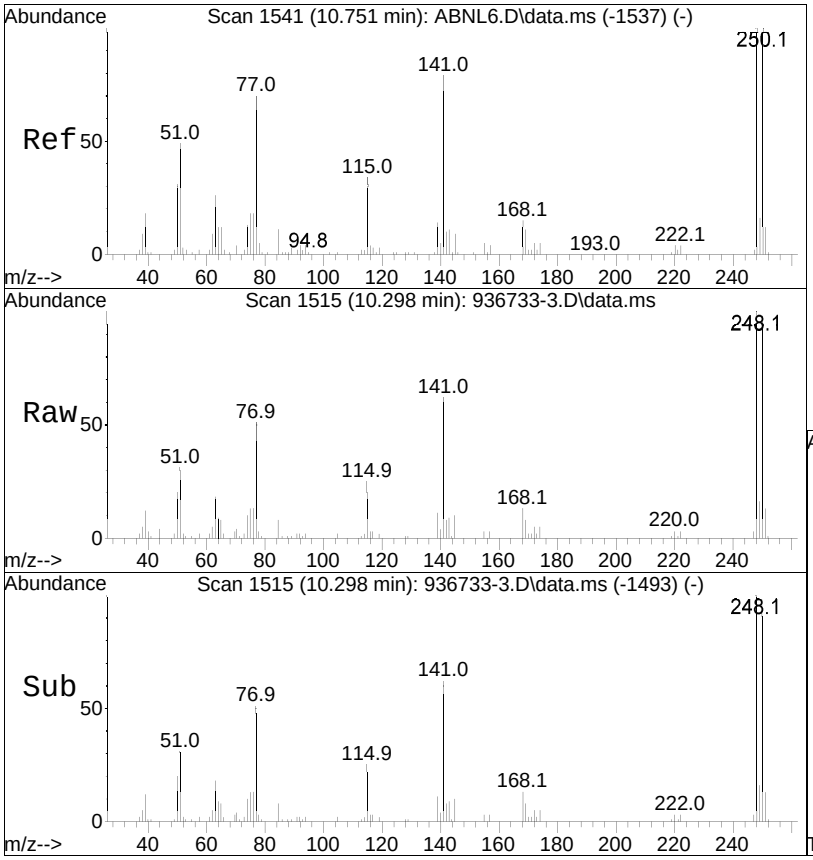


#76
NDPA/DPA
Concen: 1.33 ug/ml
RT: 9.945 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:169 Resp: 53692

Ion	Ratio	Lower	Upper
169	100		
168	73.0	54.0	81.0
167	38.7	28.6	42.8

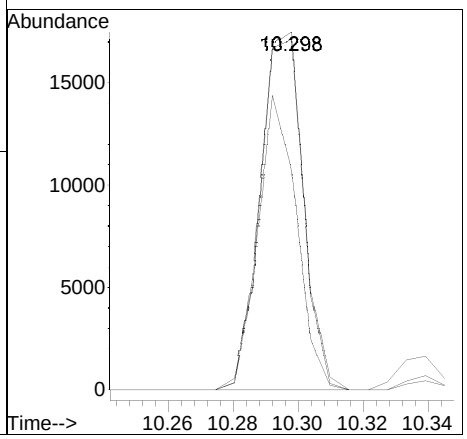


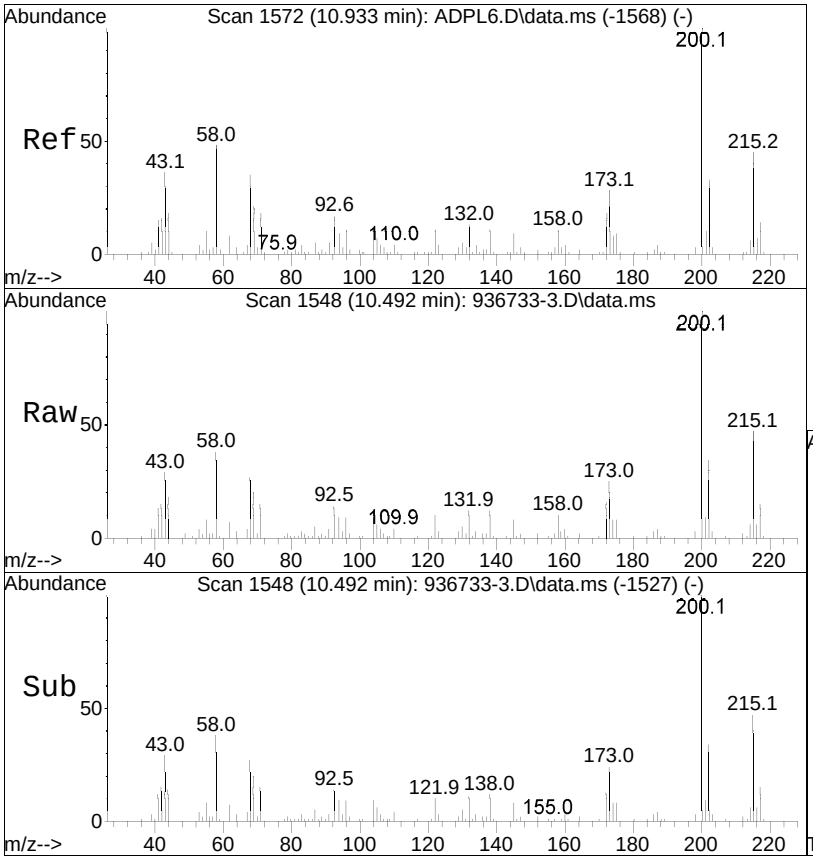


#79
4-Bromophenyl phenyl ether
Concen: 1.20 ug/ml
RT: 10.298 min Scan# 1515
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:248 Resp: 16140

Ion	Ratio	Lower	Upper
248	100		
141	73.2	76.6	114.8#
250	96.4	77.3	115.9

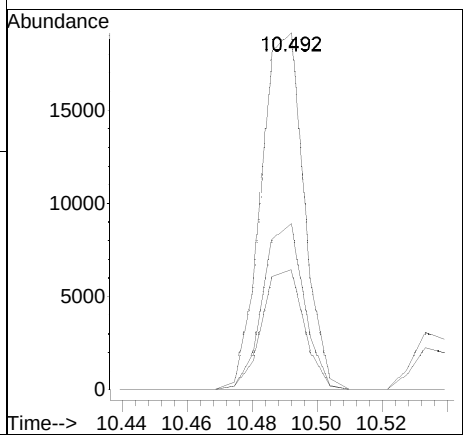


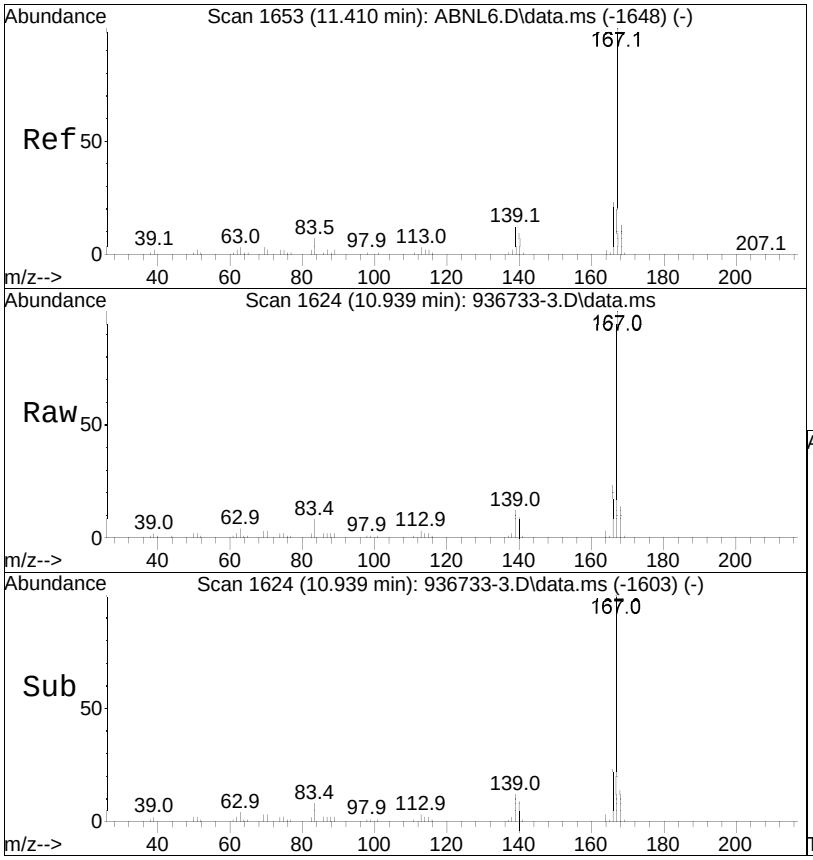


#86
Atrazine
Concen: 1.41 ug/ml
RT: 10.492 min Scan# 1548
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:200 Resp: 17432

Ion	Ratio	Lower	Upper
200	100		
202	33.3	25.8	38.6
215	44.7	40.2	60.4

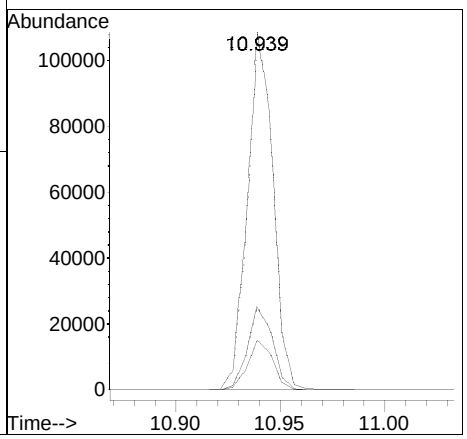


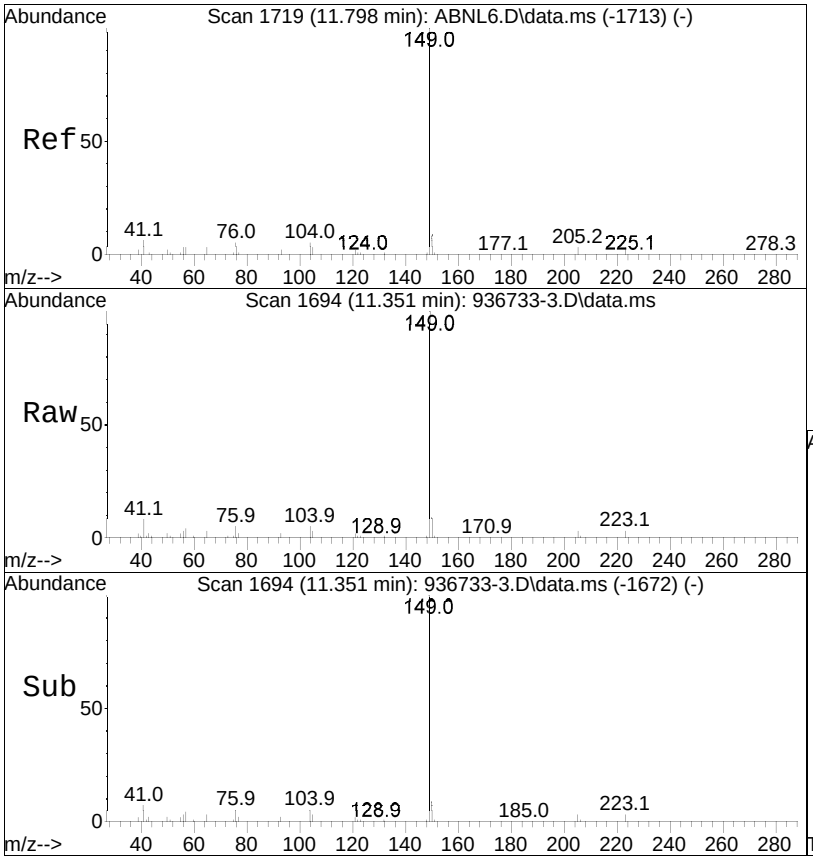


#90
Carbazole
Concen: 1.31 ug/ml
RT: 10.939 min Scan# 1624
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:167 Resp: 91820

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.8	17.4	26.0

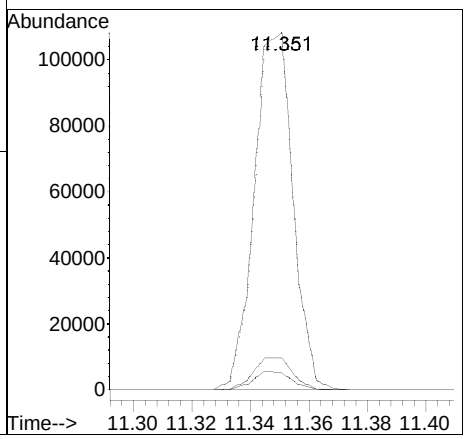


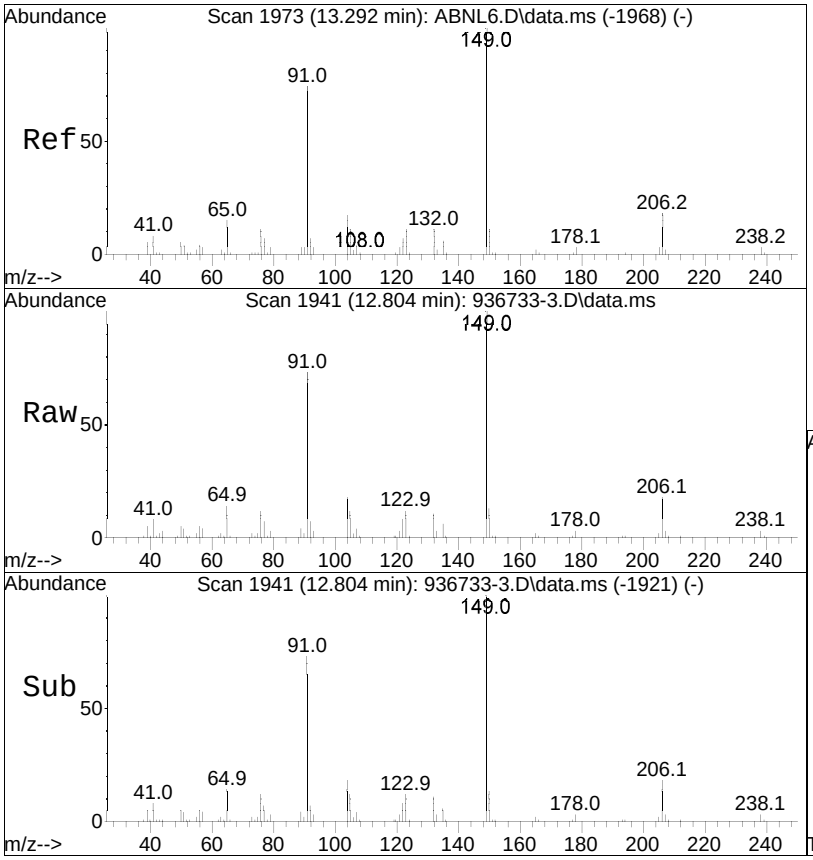


#91
Di-n-butylphthalate
Concen: 1.19 ug/ml
RT: 11.351 min Scan# 1694
Delta R.T. 0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:149 Resp: 98128

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.3	4.5	6.7

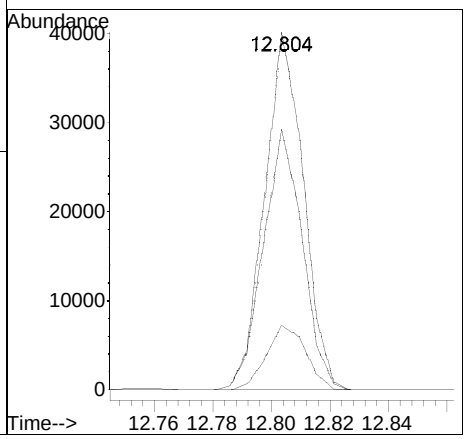


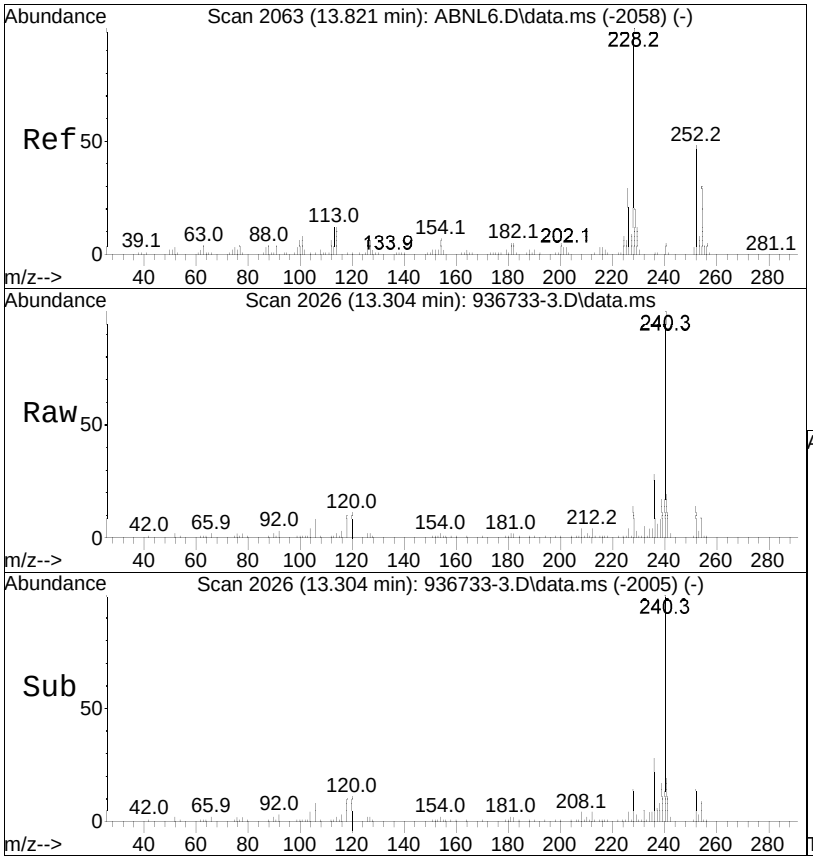


#96
Butyl benzyl phthalate
Concen: 1.26 ug/ml
RT: 12.804 min Scan# 1941
Delta R.T. -0.006 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:149 Resp: 36664

Ion	Ratio	Lower	Upper
149	100		
91	73.4	63.3	94.9
206	18.5	13.9	20.9

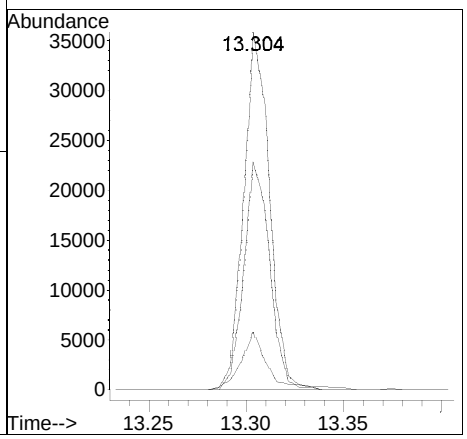


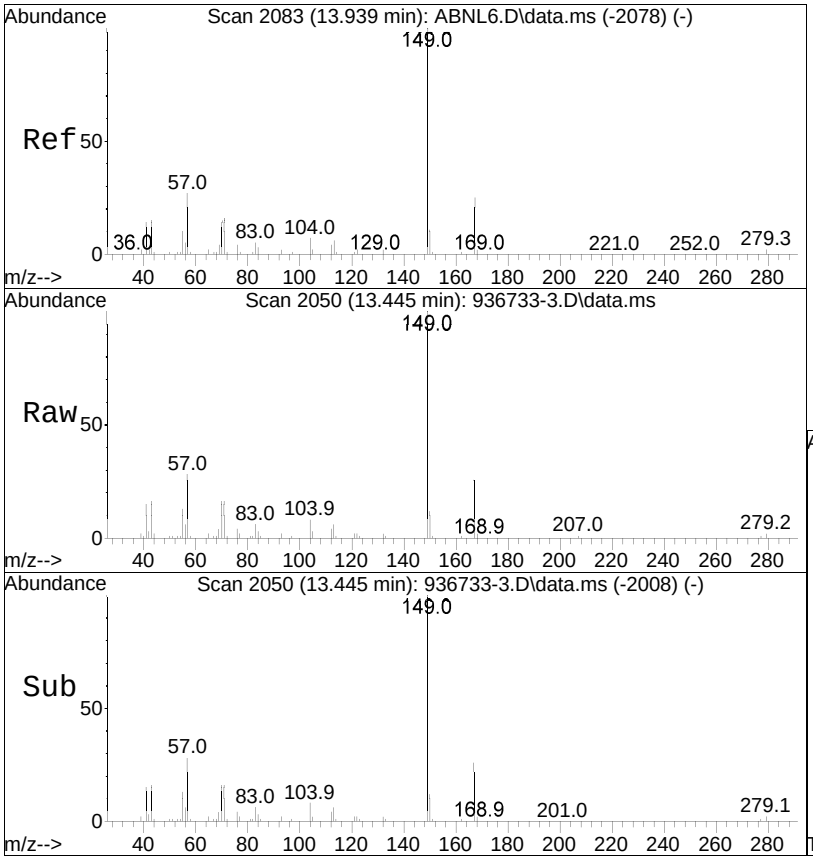


#105
3,3'-Dichlorobenzidine
Concen: 1.27 ug/ml
RT: 13.304 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:252 Resp: 32906

Ion	Ratio	Lower	Upper
252	100		
126	16.3	14.5	21.7
254	63.3	51.2	76.8

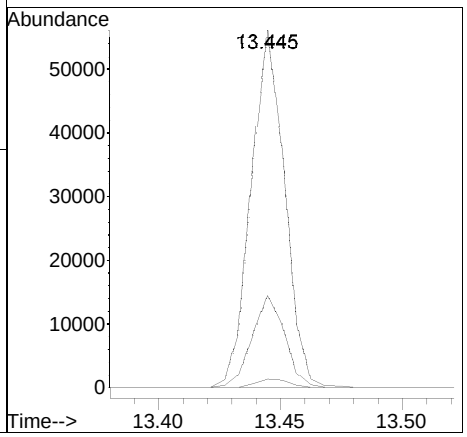


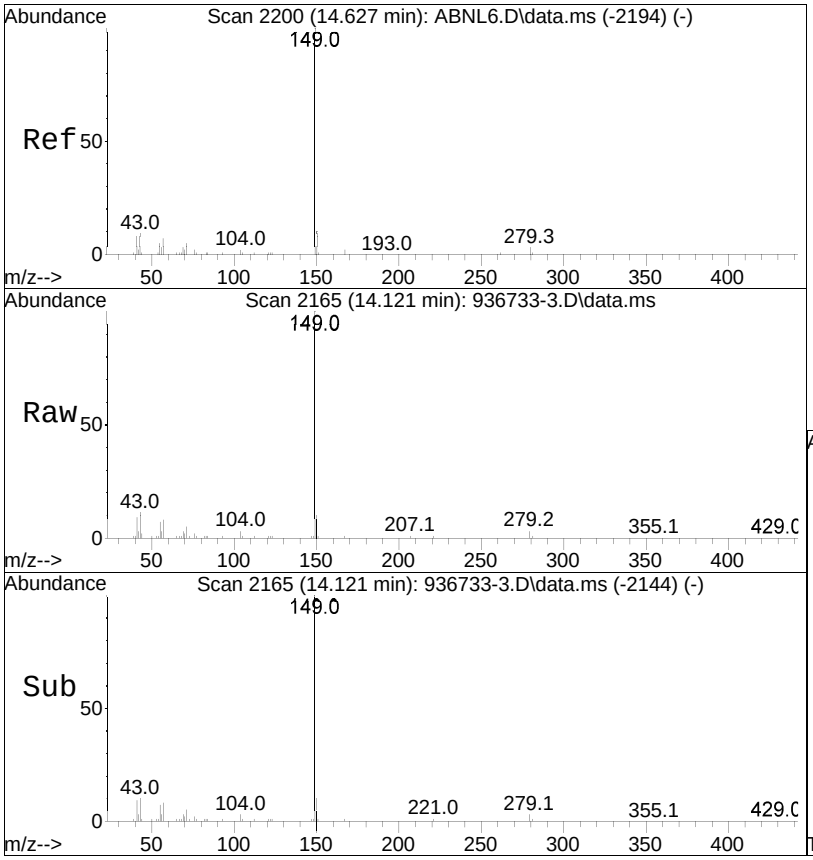


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.17 ug/ml
RT: 13.445 min Scan# 2050
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:149 Resp: 53186

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.1	3.0	4.4#

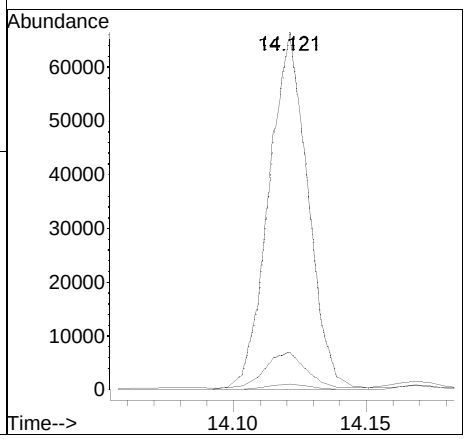




#108
Di-n-octylphthalate
Concen: 1.15 ug/ml
RT: 14.121 min Scan# 2165
Delta R.T. -0.000 min
Lab File: 936733-3.D
Acq: 20 Jun 2024 2:54 pm

Tgt Ion:149 Resp: 67191

Ion	Ratio	Lower	Upper
149	100		
43	11.3	18.8	28.2#
167	1.4	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-3.D
Acq On : 21 Jun 2024 5:22 am
Operator : SV107:sz
Sample : WG1936908-3,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 11:42:44 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:10:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.954	152	65250	4.000	ug/ml	0.00
Standard Area 1 = 64707			Recovery = 100.84%			
27) IS2_1,4-Dichlorobenzen...	5.954	152	65250	4.000	ug/ml	0.00
Standard Area 3 = 64708			Recovery = 100.84%			
32) IS3_1,4-Dichlorobenzen...	5.954	152	65250	4.000	ug/ml	0.00
Standard Area 2 = 67896			Recovery = 96.10%			
34) IS1_Naphthalene-d8	7.442	136	238638	4.000	ug/ml	0.00
Standard Area 1 = 235755			Recovery = 101.22%			
54) IS2_Naphthalene-d8	7.442	136	238638	4.000	ug/ml	0.00
Standard Area 3 = 235329			Recovery = 101.41%			
62) IS1_Acenaphthene-d10	9.219	164	140582	4.000	ug/ml	0.00
Standard Area 1 = 141034			Recovery = 99.68%			
82) IS2_Acenaphthene-d10	9.219	164	140582	4.000	ug/ml	0.00
Standard Area 3 = 132909			Recovery = 105.77%			
85) IS3_Acenaphthene-d10	9.219	164	140582	4.000	ug/ml	0.00
Standard Area 2 = 134249			Recovery = 104.72%			
87) IS1_Phenanthrene-d10	10.648	188	287195	4.000	ug/ml	0.00
Standard Area 1 = 276864			Recovery = 103.73%			
99) IS3_Phenanthrene-d10	10.648	188	287195	4.000	ug/ml	0.00
Standard Area 2 = 271047			Recovery = 105.96%			
103) IS1_Chrysene-d12	13.248	240	229831	4.000	ug/ml	0.00
Standard Area 1 = 231677			Recovery = 99.20%			
112) IS1_Perylene-d12	14.689	264	222148	4.000	ug/ml	0.00
Standard Area 1 = 238143			Recovery = 93.28%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.595	112	11259	0.646	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 32.30%			
7) Phenol-d6	5.584	99	11086	0.514	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.70%			
19) Nitrobenzene-d5	6.654	82	14049	0.739	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.90%			
45) 2-Fluorobiphenyl	8.589	172	34233	0.662	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.20%			
78) 2,4,6-Tribromophenol	9.989	330	4885	0.815	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.75%			

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-3.D
Acq On : 21 Jun 2024 5:22 am
Operator : SV107:sz
Sample : WG1936908-3,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 11:42:44 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:10:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.230	244	38176	0.608	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.80%			
Target Compounds						Qvalue
6) 2-Chlorophenol	5.672	128	16889	0.879	ug/ml	97
8) Phenol	5.601	94	12224	0.521	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.384	45	39411	1.489	ug/ml#	59
15) 2-Methylphenol	6.389	108	18692	1.112	ug/ml	99
17) n-Nitrosodi-n-propylamine	6.542	70	19923	1.389	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.589	108	19737	1.116	ug/ml#	56
20) Nitrobenzene	6.678	77	28169	1.443	ug/ml	95
21) Isophorone	6.972	82	49172	1.305	ug/ml	95
22) 2-Nitrophenol	7.048	139	7442	0.856	ug/ml#	91
23) 2,4-Dimethylphenol	7.172	107	19700	1.110	ug/ml	100
24) Bis(2-chloroethoxy)met...	7.266	93	33430	1.359	ug/ml#	97
25) 2,4-Dichlorophenol	7.325	162	15653	0.877	ug/ml	95
28) Benzaldehyde	5.319	105	21487	1.287	ug/ml	100
29) Acetophenone	6.495	105	38824	1.345	ug/ml#	86
37) 4-Chloroaniline	7.566	65	8630	1.152	ug/ml	95
39) p-Chloro-m-cresol	8.113	107	18640	1.147	ug/ml	98
42) Hexachlorocyclopentadiene	8.378	237	11890	0.971	ug/ml	98
43) 2,4,6-Trichlorophenol	8.501	196	11629	0.823	ug/ml	99
44) 2,4,5-Trichlorophenol	8.530	196	12825	0.856	ug/ml	98
47) 2-Nitroaniline	8.795	138	14107	1.367	ug/ml	90
50) Dimethyl phthalate	9.013	163	65901	1.317	ug/ml#	98
52) 2,6-Dinitrotoluene	9.048	165	12347	1.357	ug/ml	88
59) Caprolactam	7.878	55	4697	0.528	ug/ml#	70
60) 1,2,4,5-Tetrachloroben...	8.372	216	27819	1.160	ug/ml	98
61) Biphenyl	8.678	154	69411	1.252	ug/ml	99
63) 3-Nitroaniline	9.201	138	13246	1.453	ug/ml#	89
65) 2,4-Dinitrophenol	9.301	184	498	1.034	ug/ml#	1
66) Dibenzofuran	9.425	168	86166	1.396	ug/ml	99
67) 2,4-Dinitrotoluene	9.436	165	15439	1.428	ug/ml#	83
68) 4-Nitrophenol	9.407	65	4401	0.566	ug/ml#	1
71) Diethyl phthalate	9.707	149	65147	1.424	ug/ml	96
73) 4-Chlorophenyl phenyl ...	9.783	204	32936	1.395	ug/ml	90
74) 4-Nitroaniline	9.789	138	12206	1.323	ug/ml#	90

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-3.D
Acq On : 21 Jun 2024 5:22 am
Operator : SV107:sz
Sample : WG1936908-3,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 11:42:44 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:10:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	9.825	198	4016	1.047 ug/ml#	72
76)	NDPA/DPA	9.901	169	56293	1.416 ug/ml	94
79)	4-Bromophenyl phenyl e...	10.248	248	17447	1.319 ug/ml	90
86)	Atrazine	10.448	200	16680	1.367 ug/ml	94
90)	Carbazole	10.895	167	88474	1.328 ug/ml	97
91)	Di-n-butylphthalate	11.307	149	98604	1.262 ug/ml	98
96)	Butyl benzyl phthalate	12.760	149	39937	1.389 ug/ml	95
105)	3,3'-Dichlorobenzidine	13.254	252	32900	1.332 ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.395	149	58065	1.311 ug/ml#	94
108)	Di-n-octylphthalate	14.065	149	81875	1.353 ug/ml#	75

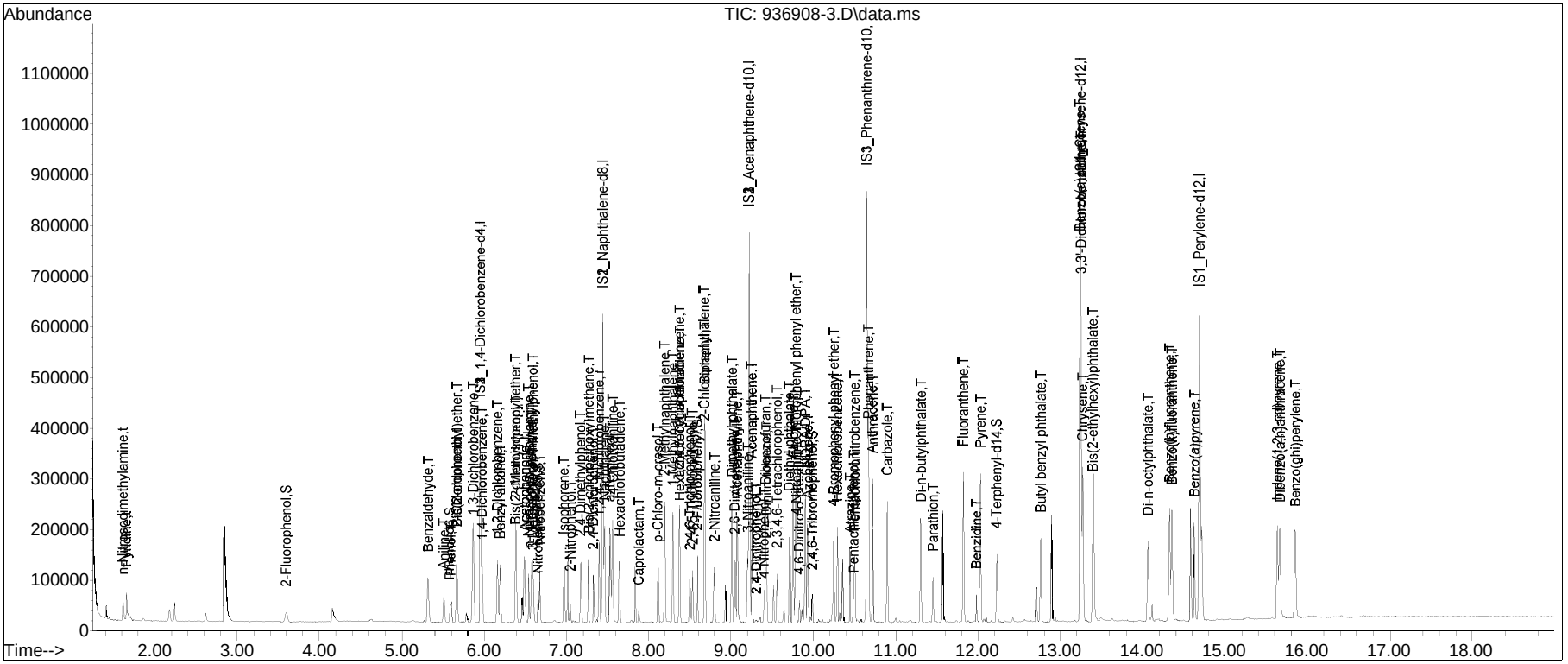
(#) = qualifier out of range (m) = manual integration (+) = signals summed

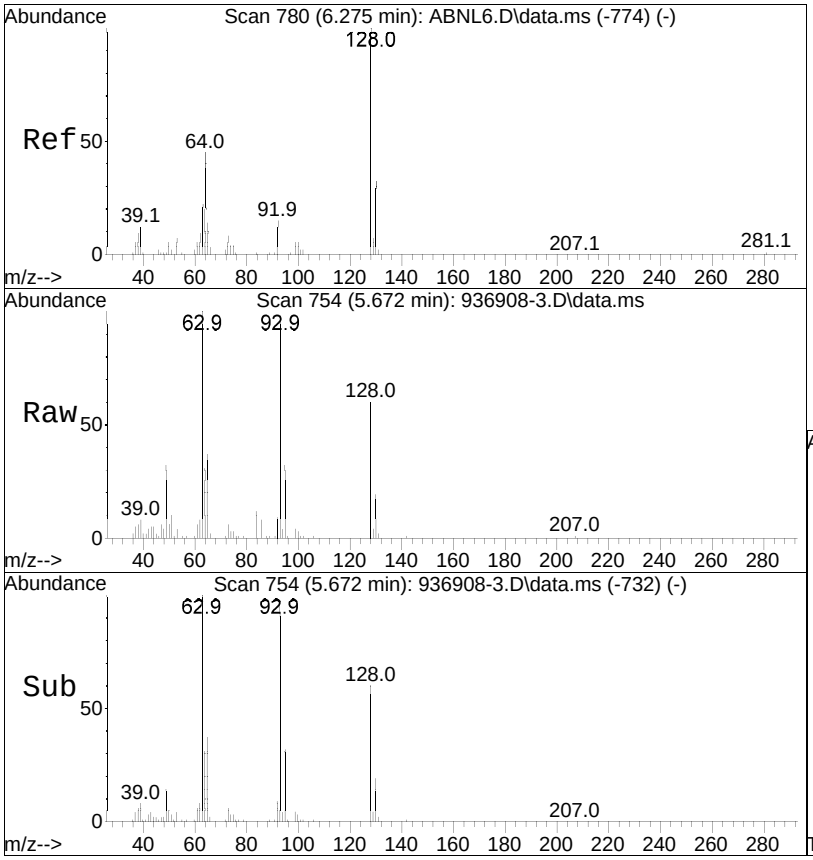
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-3.D
Acq On : 21 Jun 2024 5:22 am
Operator : SV107:sz
Sample : WG1936908-3,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 11:42:44 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:10:33 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MANRVT\AP90620n.D•

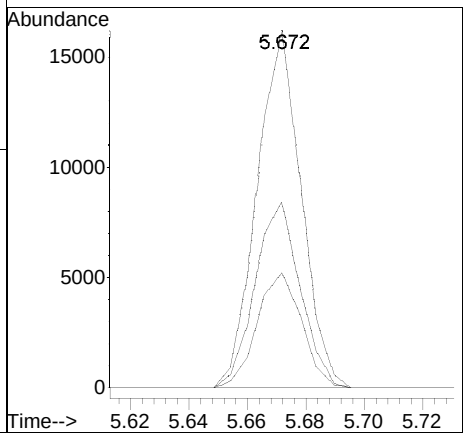


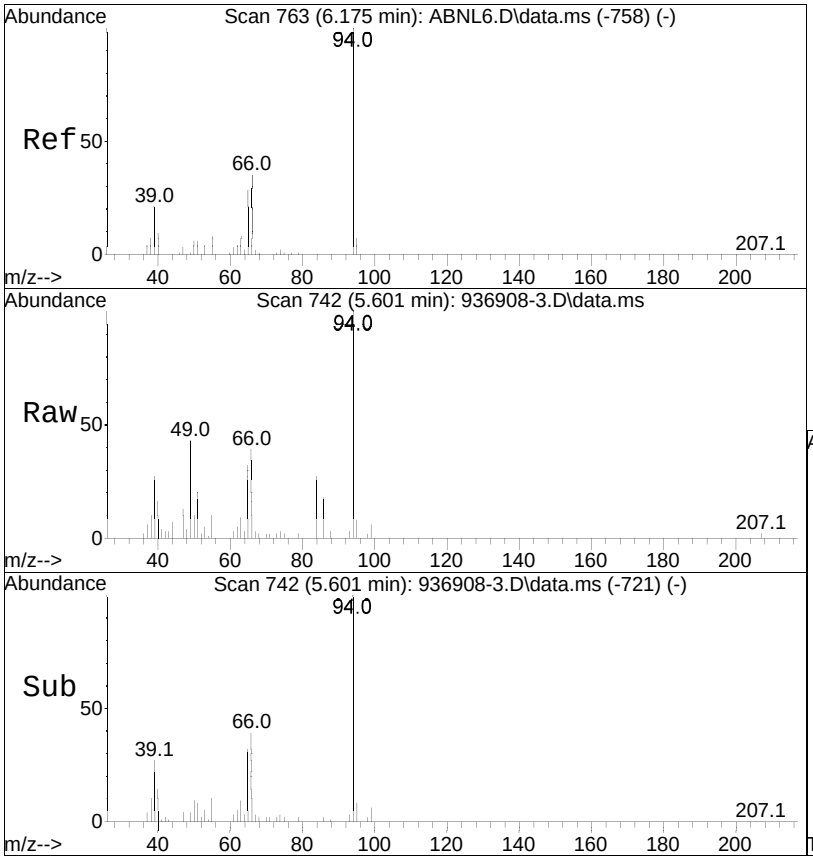


#6
2-Chlorophenol
Concen: 0.88 ug/ml
RT: 5.672 min Scan# 754
Delta R.T. 0.006 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:128 Resp: 16889

Ion	Ratio	Lower	Upper
128	100		
64	53.3	45.1	67.7
130	32.7	26.2	39.4

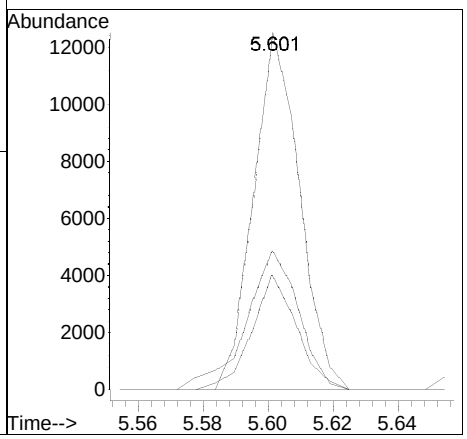


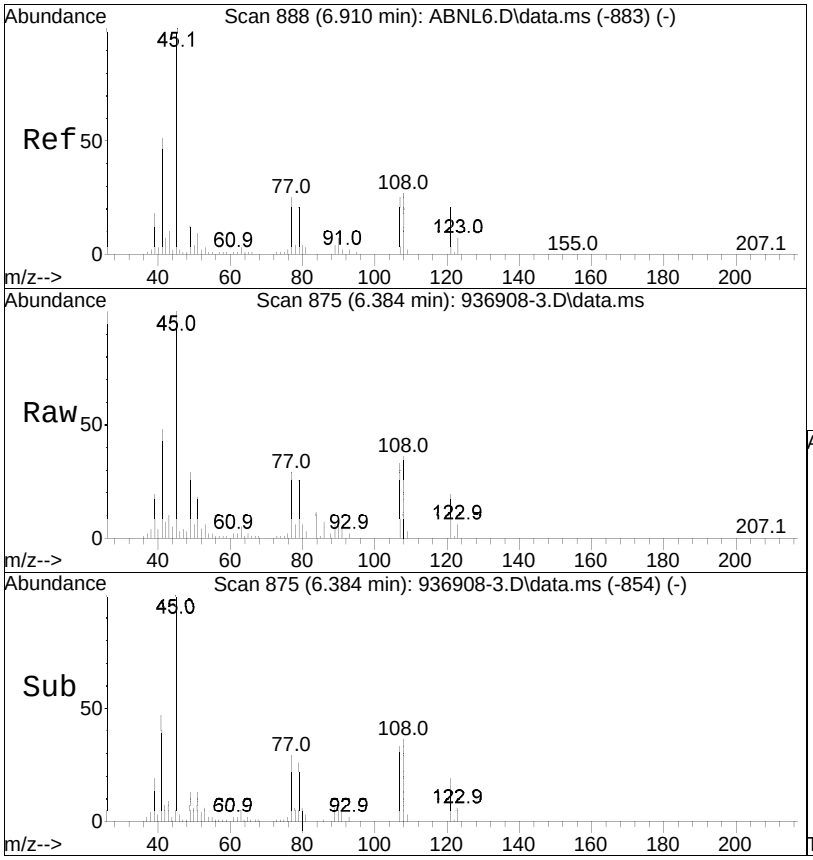


#8
Phenol
Concen: 0.52 ug/ml
RT: 5.601 min Scan# 742
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 94 Resp: 12224

Ion	Ratio	Lower	Upper
94	100		
65	31.6	26.0	39.0
66	44.5	33.8	50.8

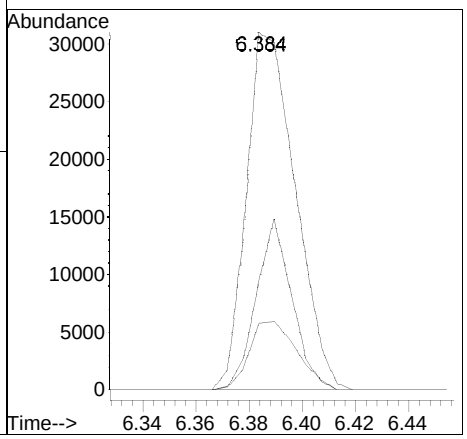


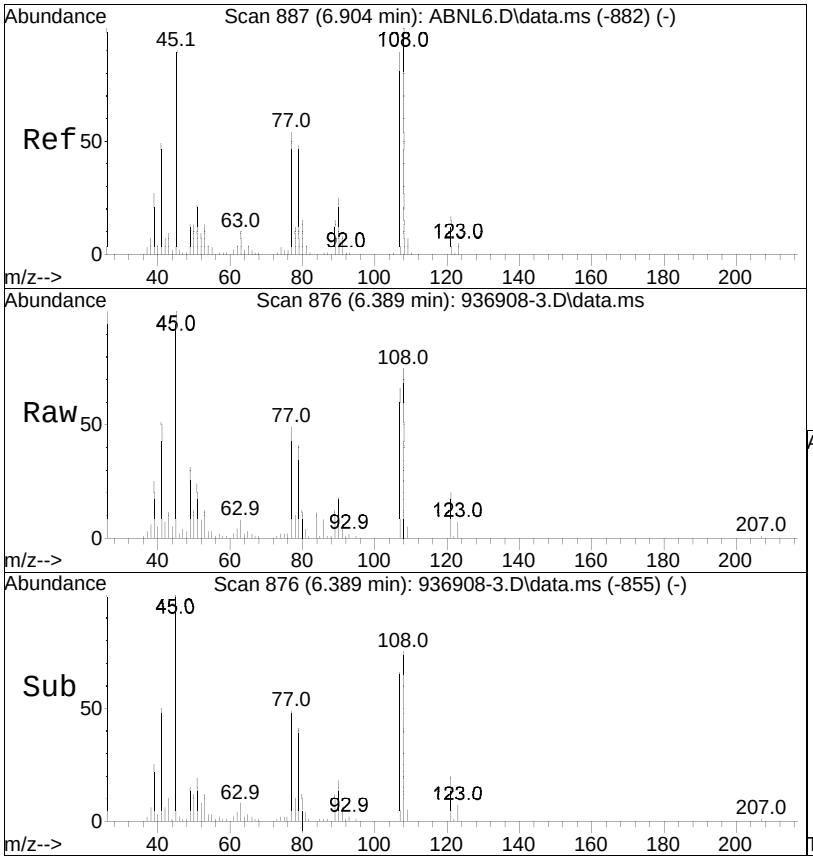


#14
Bis(2-chloroisopropyl)ether
Concen: 1.49 ug/ml
RT: 6.384 min Scan# 875
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 45 Resp: 39411

Ion	Ratio	Lower	Upper
45	100		
121	18.8	9.8	14.6#
77	35.0	6.1	9.1#

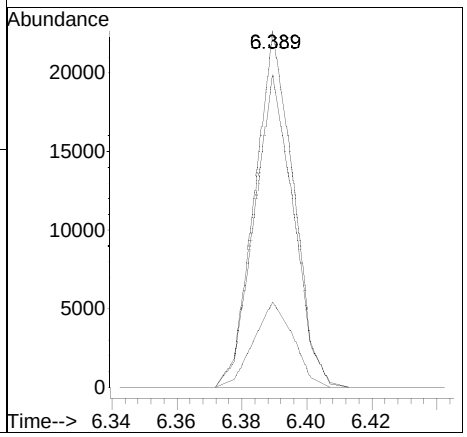


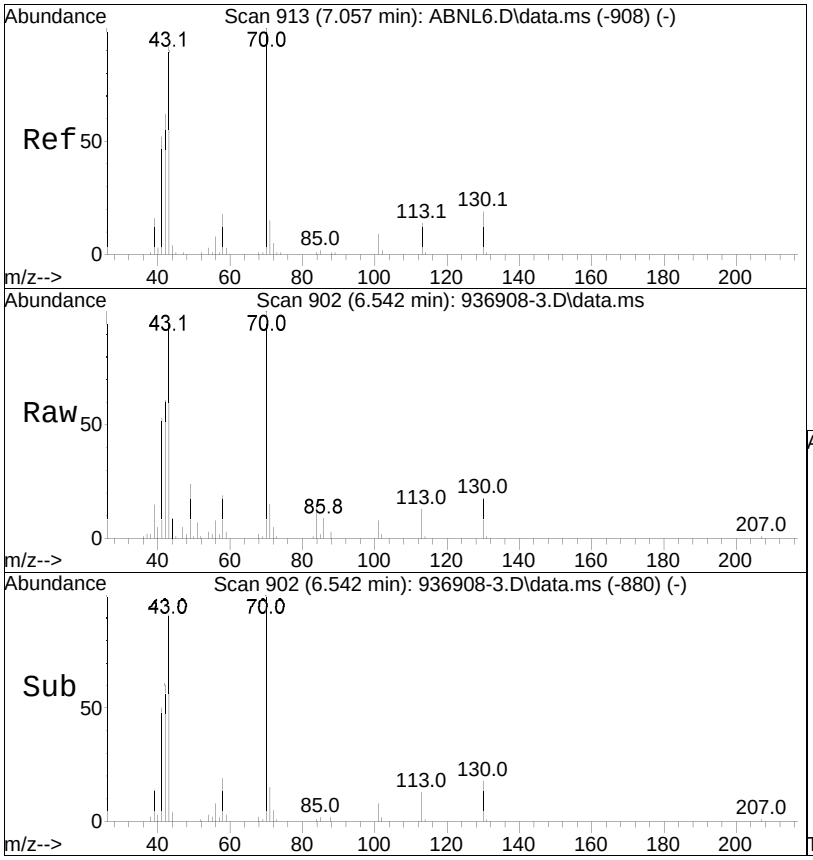


#15
2-Methylphenol
Concen: 1.11 ug/ml
RT: 6.389 min Scan# 876
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:108 Resp: 18692

Ion	Ratio	Lower	Upper
108	100		
107	88.9	70.7	106.1
90	24.5	18.7	28.1

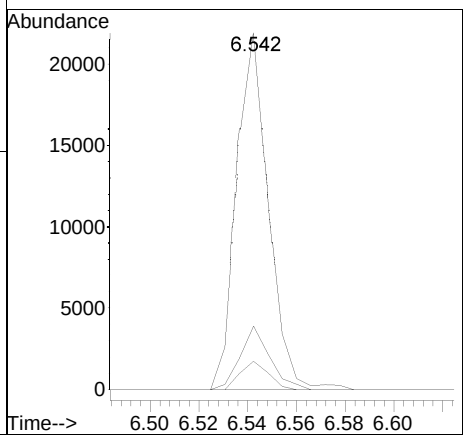


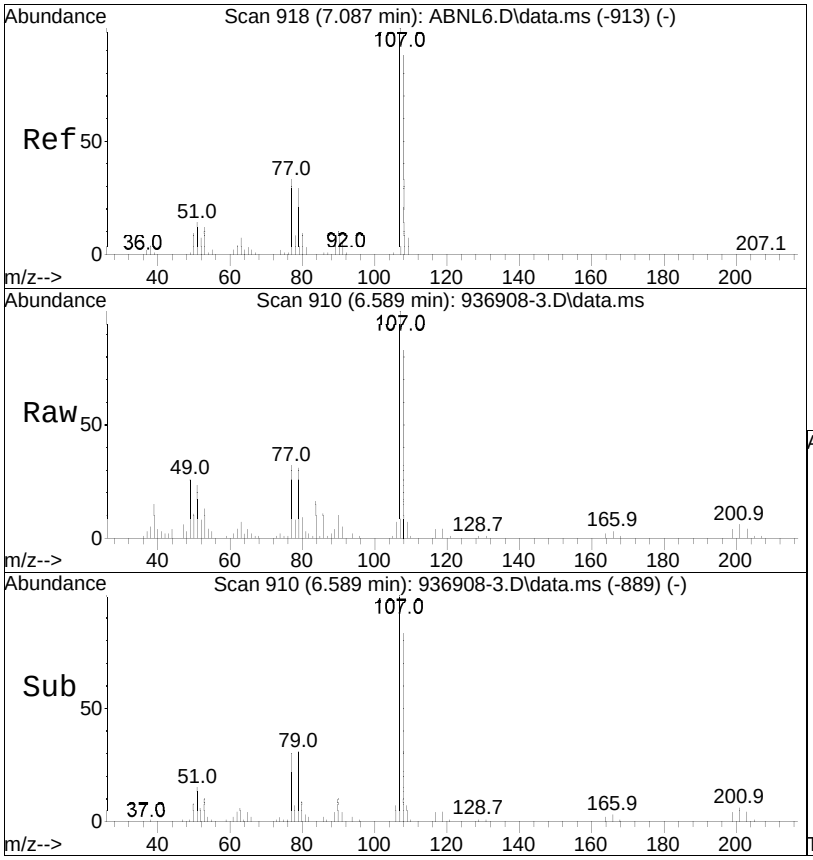


#17
n-Nitrosodi-n-propylamine
Concen: 1.39 ug/ml
RT: 6.542 min Scan# 902
Delta R.T. 0.006 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 70 Resp: 19923

Ion	Ratio	Lower	Upper
70	100		
130	16.5	18.2	27.4#
101	7.0	7.8	11.8#

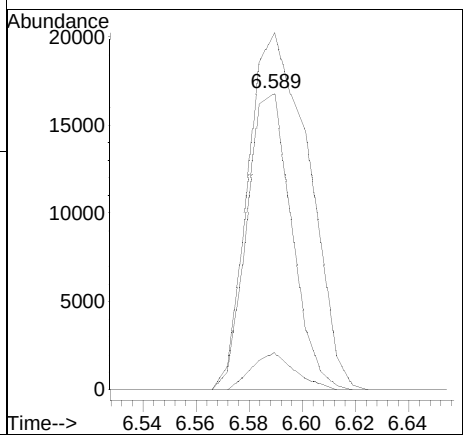


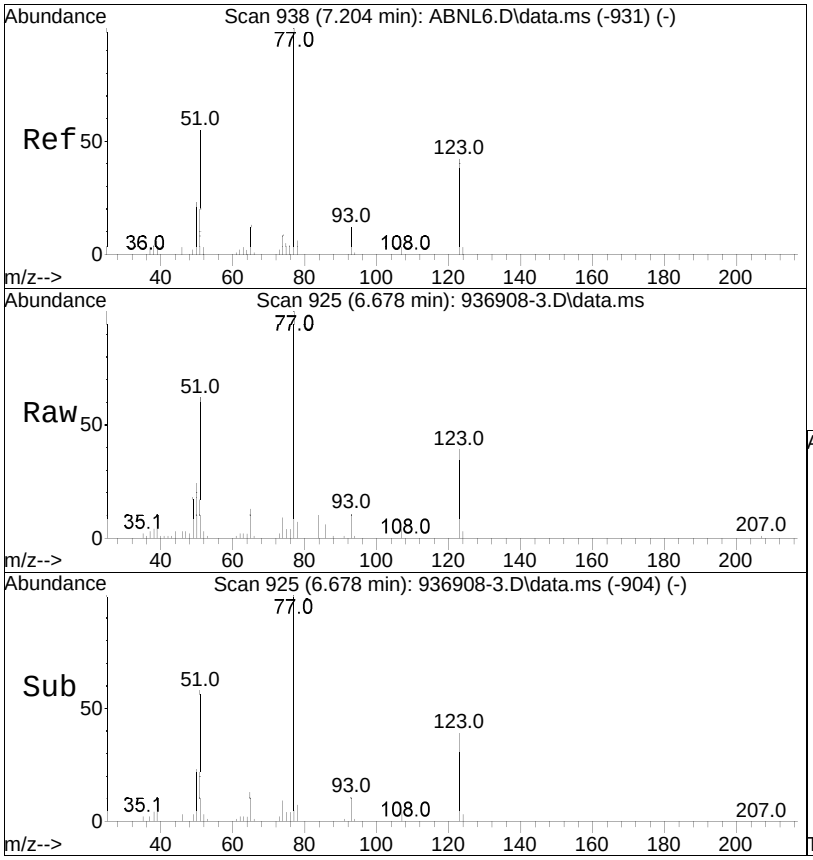


#18
3-Methylphenol/4-Methylphenol
Concen: 1.12 ug/ml
RT: 6.589 min Scan# 910
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:108 Resp: 19737

Ion	Ratio	Lower	Upper
108	100		
107	161.8	88.6	132.8#
90	12.0	8.8	13.2

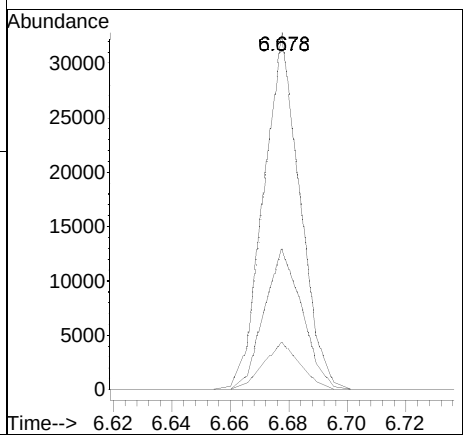


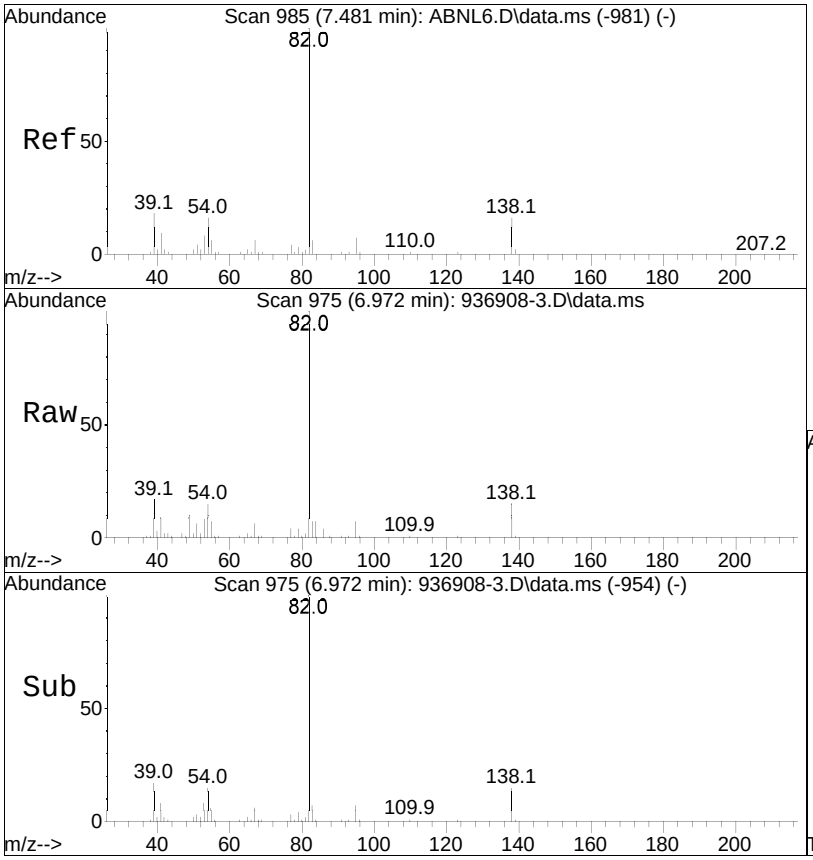


#20
Nitrobenzene
Concen: 1.44 ug/ml
RT: 6.678 min Scan# 925
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 77 Resp: 28169

Ion	Ratio	Lower	Upper
77	100		
123	41.2	36.3	54.5
65	13.5	11.6	17.4

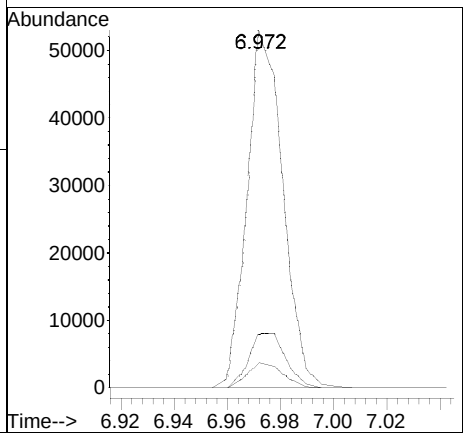


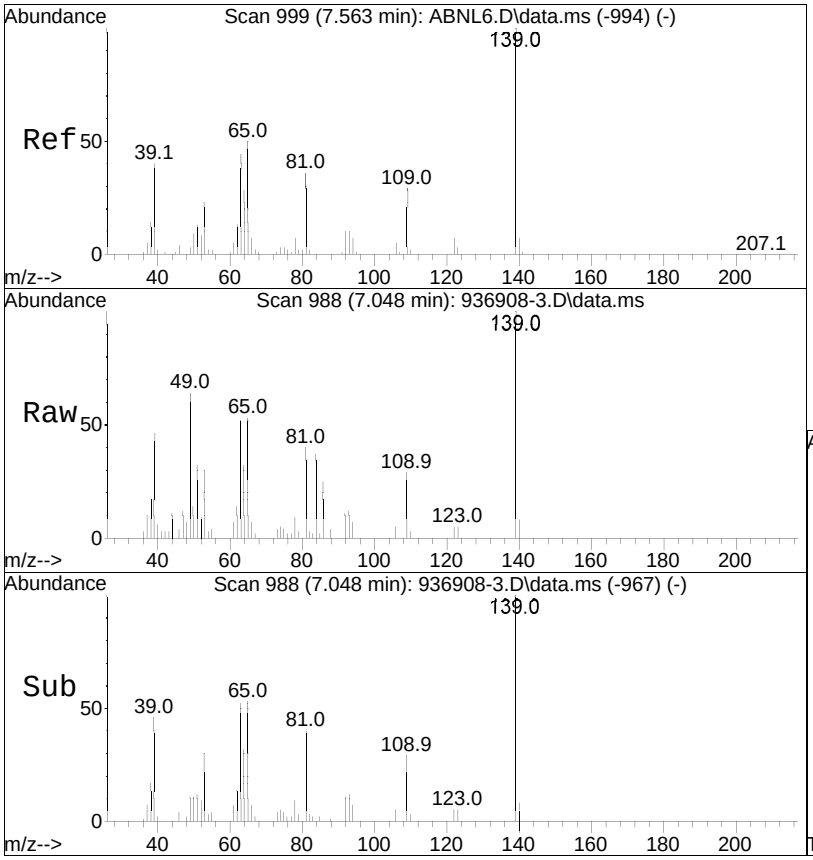


#21
Isophorone
Concen: 1.30 ug/ml
RT: 6.972 min Scan# 975
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 82 Resp: 49172

Ion	Ratio	Lower	Upper
82	100		
138	15.7	14.7	22.1
95	7.0	5.2	7.8

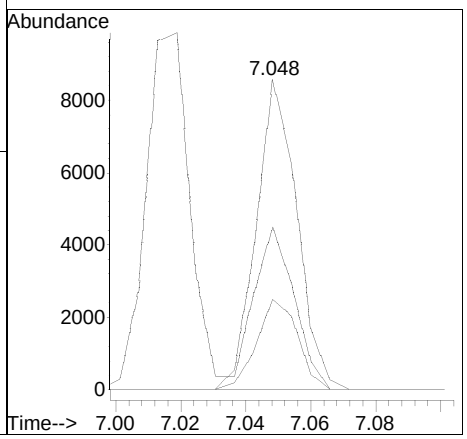


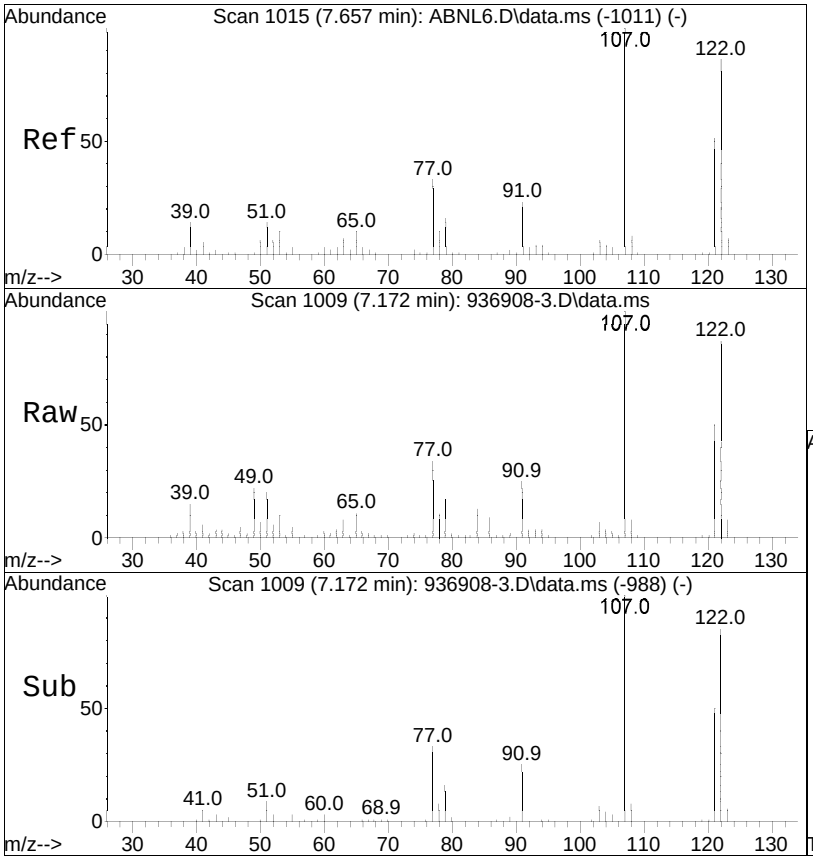


#22
2-Nitrophenol
Concen: 0.86 ug/ml
RT: 7.048 min Scan# 988
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:139 Resp: 7442

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	51.1	46.1	69.1

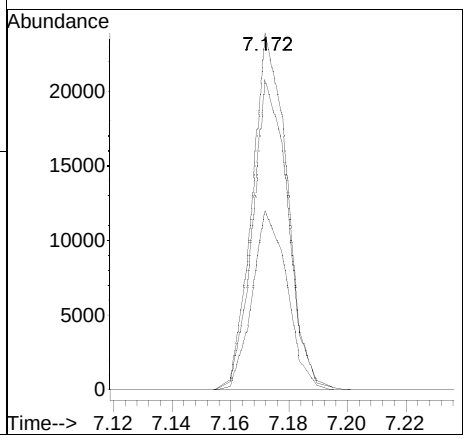


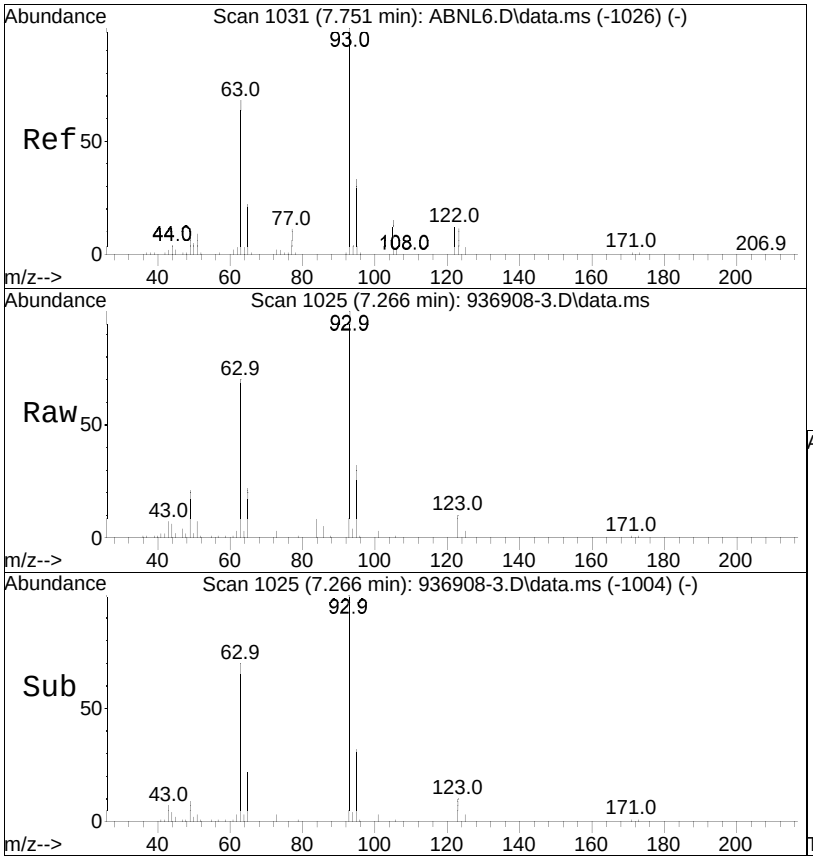


#23
2,4-Dimethylphenol
Concen: 1.11 ug/ml
RT: 7.172 min Scan# 1009
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:107 Resp: 19700

Ion	Ratio	Lower	Upper
107	100		
121	50.3	40.0	60.0
122	87.8	70.2	105.4

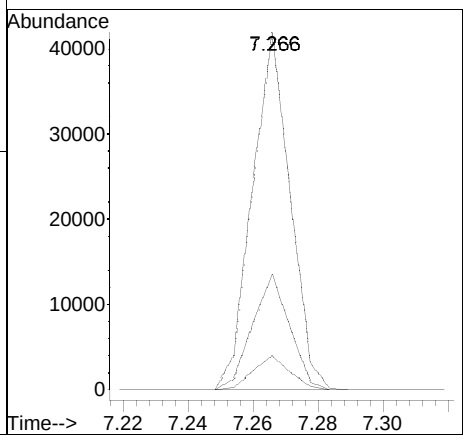


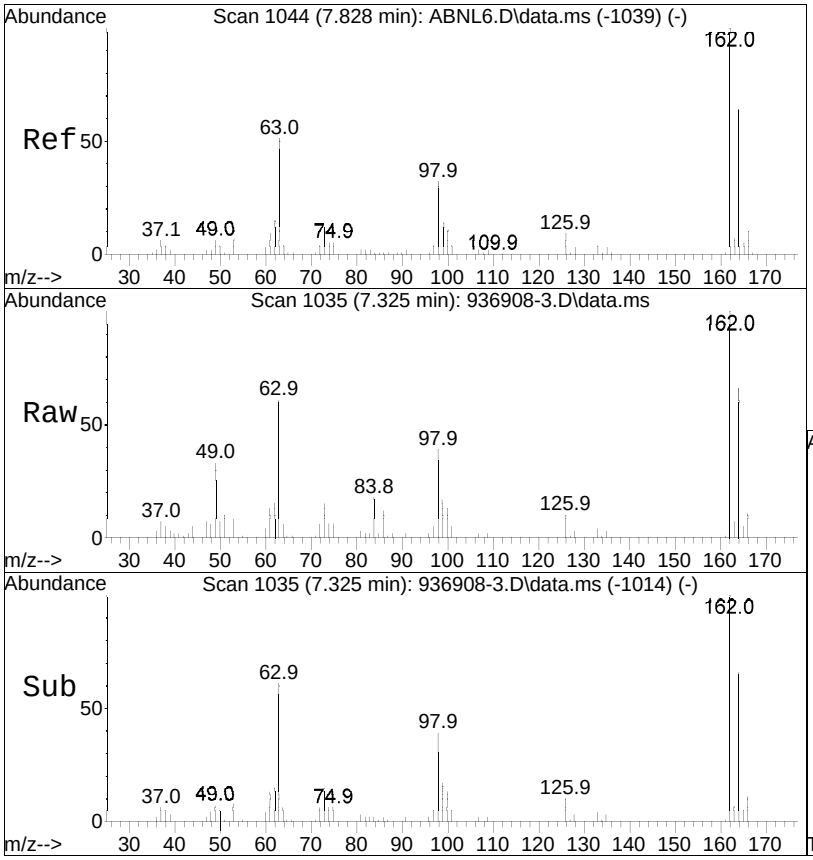


#24
Bis(2-chloroethoxy)methane
Concen: 1.36 ug/ml
RT: 7.266 min Scan# 1025
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 93 Resp: 33430

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	9.4	10.1	15.1#

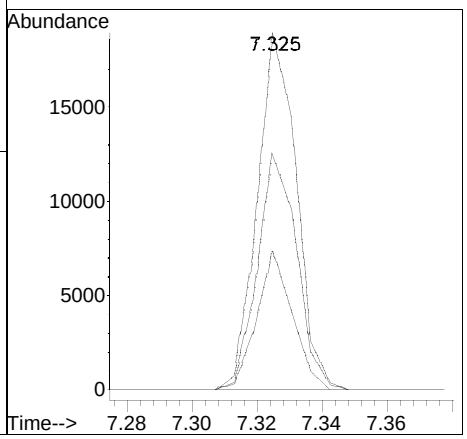


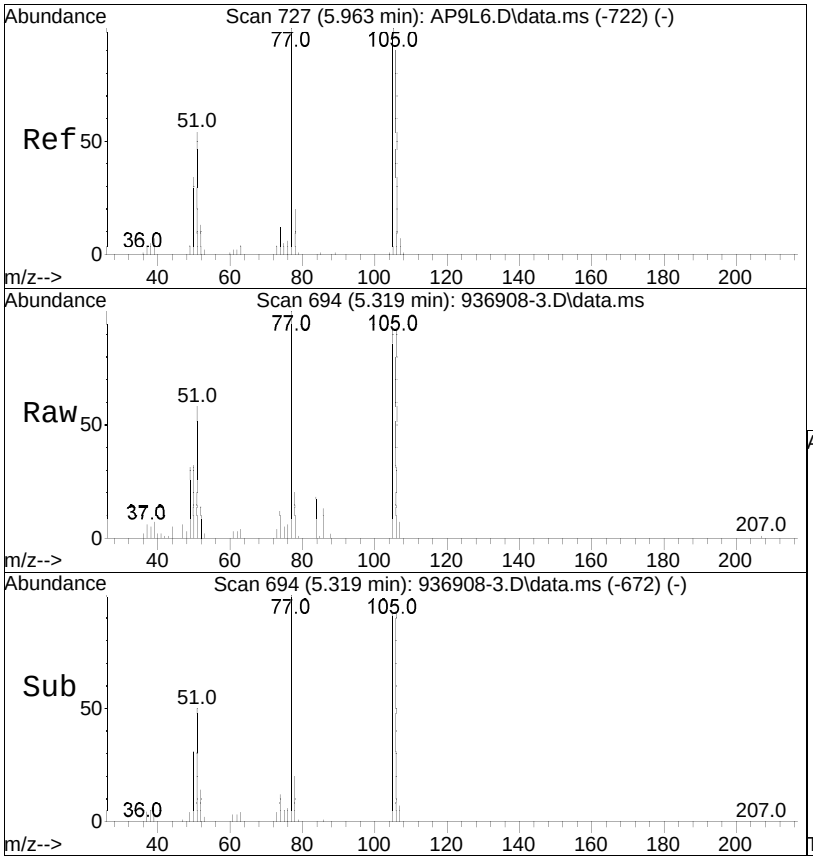


#25
2,4-Dichlorophenol
Concen: 0.88 ug/ml
RT: 7.325 min Scan# 1035
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:162 Resp: 15653

Ion	Ratio	Lower	Upper
162	100		
164	66.7	51.0	76.4
98	35.8	32.2	48.2

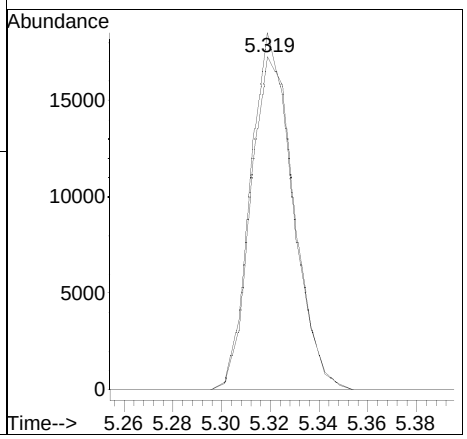


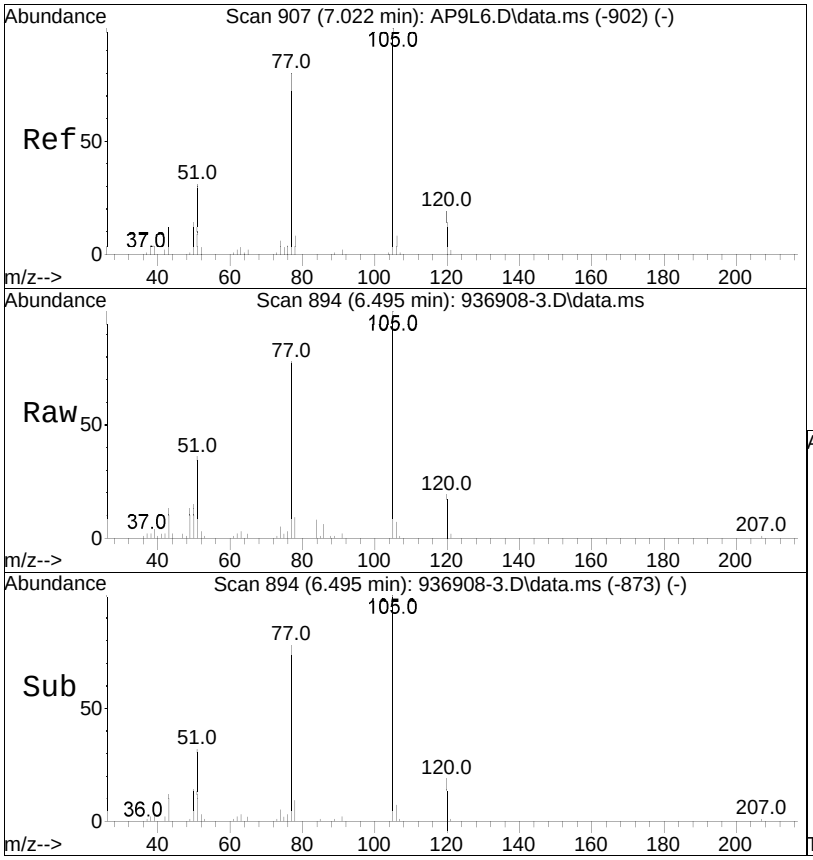


#28
Benzaldehyde
Concen: 1.29 ug/ml
RT: 5.319 min Scan# 694
Delta R.T. 0.006 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:105 Resp: 21487

Ion	Ratio	Lower	Upper
105	100		
77	103.0	82.2	123.4

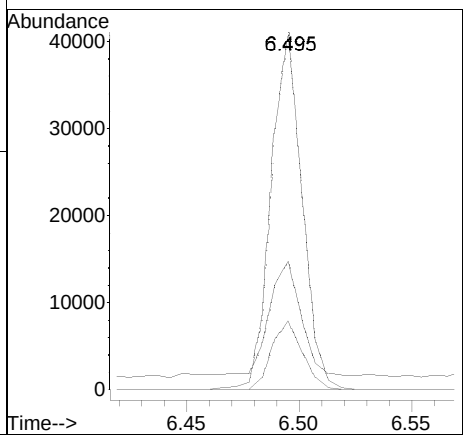


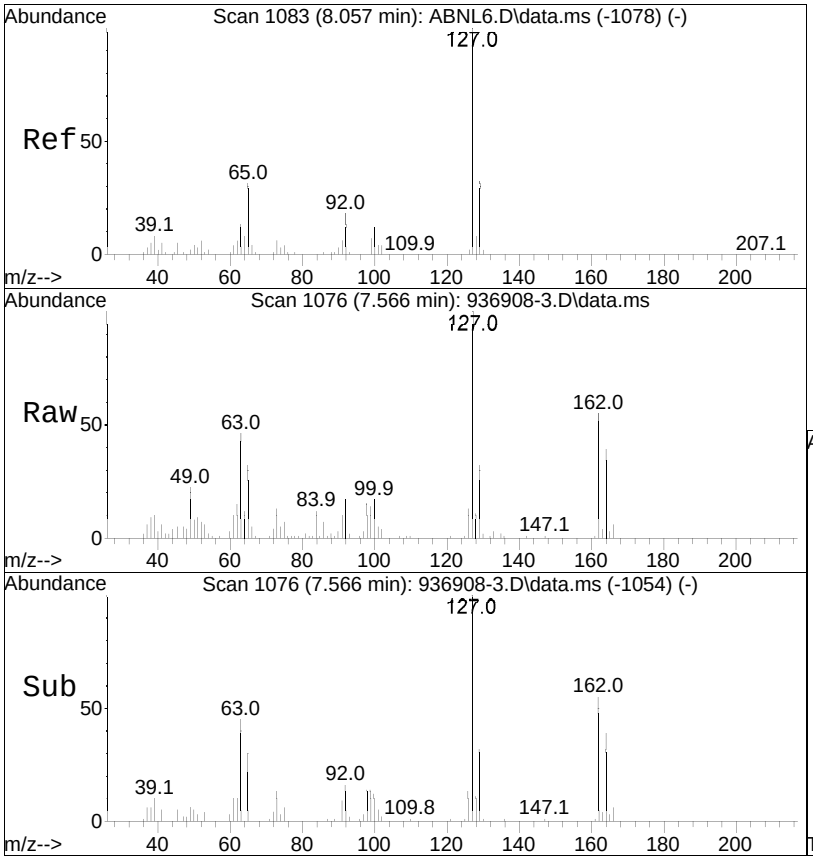


#29
Acetophenone
Concen: 1.34 ug/ml
RT: 6.495 min Scan# 894
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:105 Resp: 38824

Ion	Ratio	Lower	Upper
105	100		
120	19.2	20.5	30.7#
51	34.2	34.9	52.3#

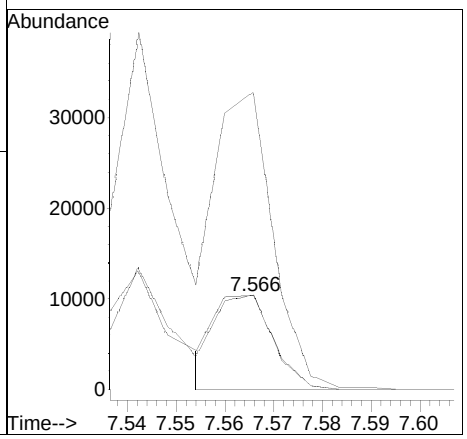


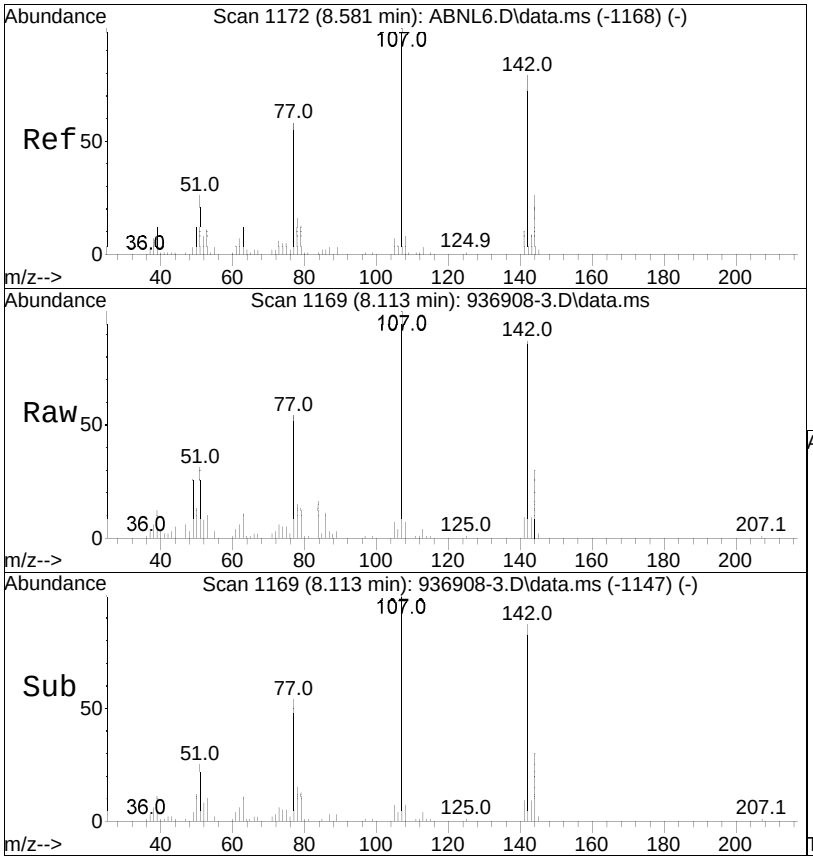


#37
4-Chloroaniline
Concen: 1.15 ug/ml
RT: 7.566 min Scan# 1076
Delta R.T. 0.006 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 65 Resp: 8630

Ion	Ratio	Lower	Upper
65	100		
127	308.2	237.6	356.4
129	97.6	76.3	114.5

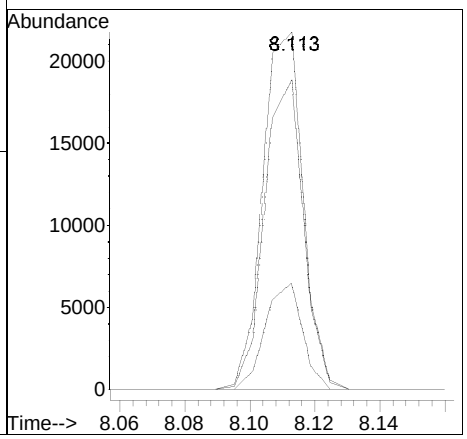


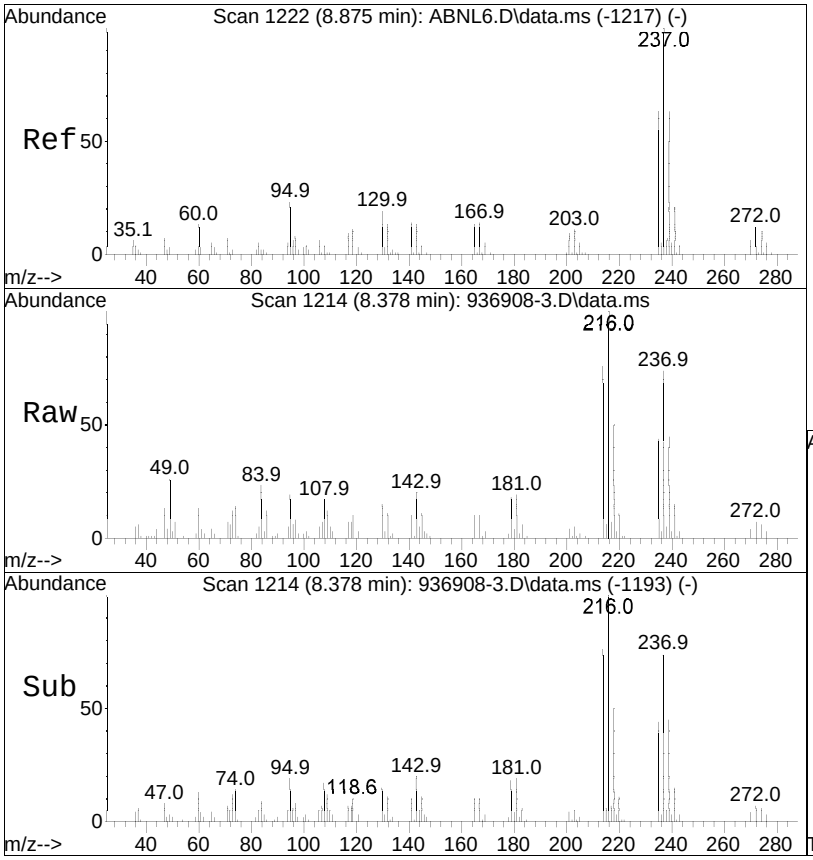


#39
p-Chloro-m-cresol
Concen: 1.15 ug/ml
RT: 8.113 min Scan# 1169
Delta R.T. 0.006 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:107 Resp: 18640

Ion	Ratio	Lower	Upper
107	100		
144	27.6	20.9	31.3
142	83.7	66.1	99.1

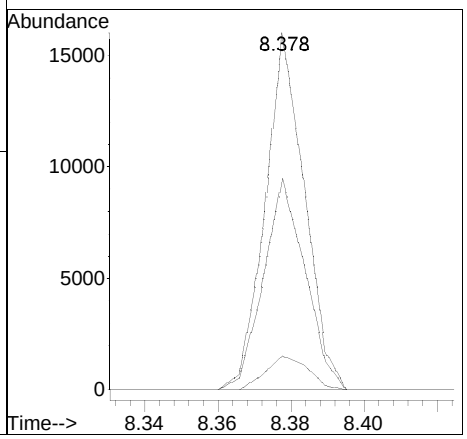


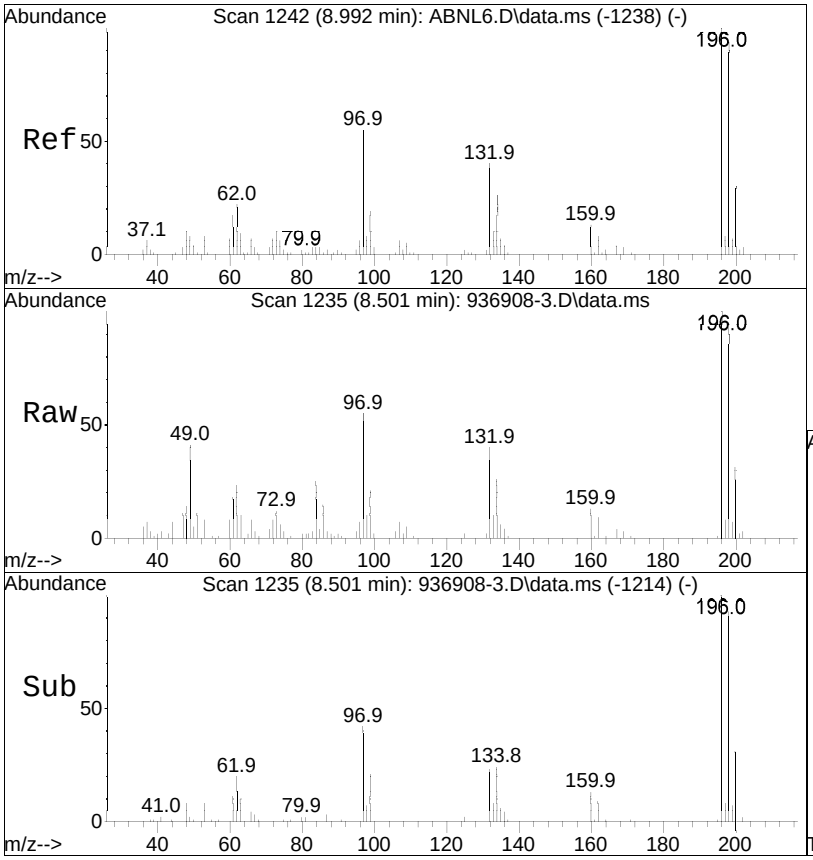


#42
Hexachlorocyclopentadiene
Concen: 0.97 ug/ml
RT: 8.378 min Scan# 1214
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:237 Resp: 11890

Ion	Ratio	Lower	Upper
237	100		
235	63.0	49.7	74.5
272	10.3	9.8	14.6

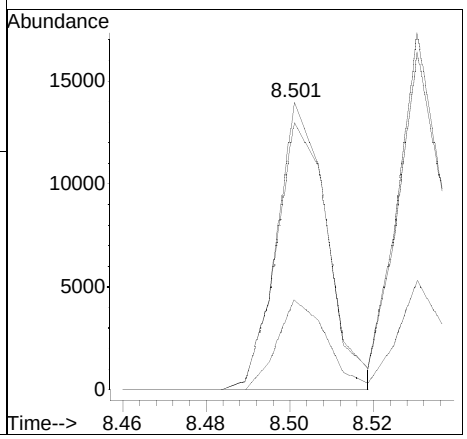


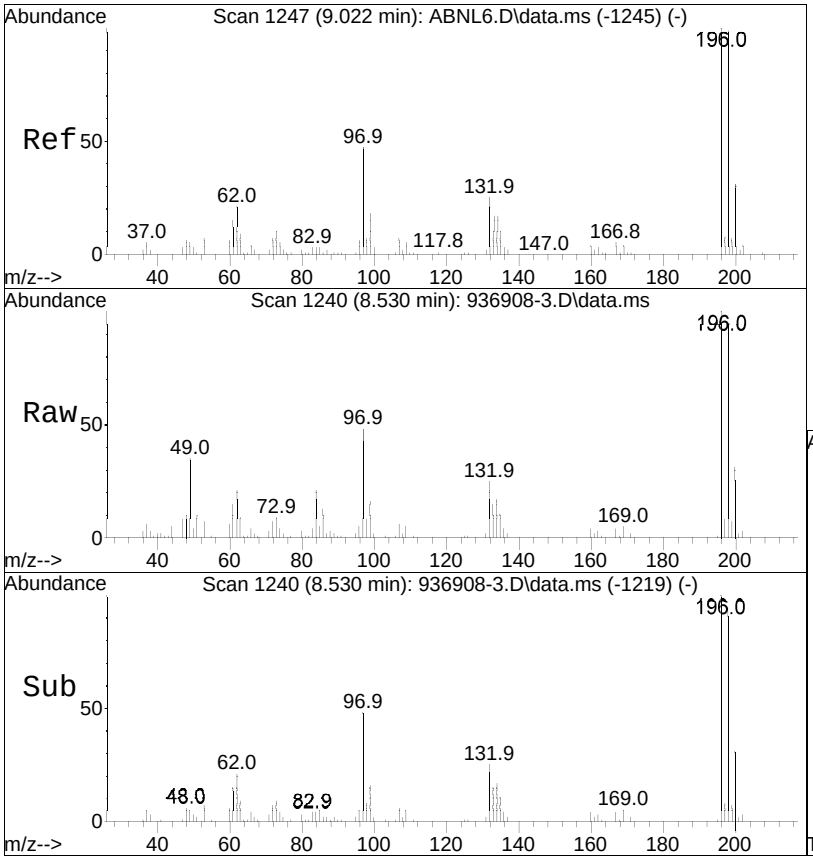


#43
2,4,6-Trichlorophenol
Concen: 0.82 ug/ml
RT: 8.501 min Scan# 1235
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:196 Resp: 11629

Ion	Ratio	Lower	Upper
196	100		
198	97.2	77.5	116.3
200	31.3	23.8	35.6

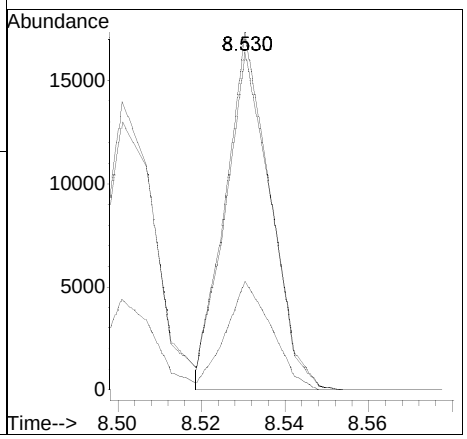


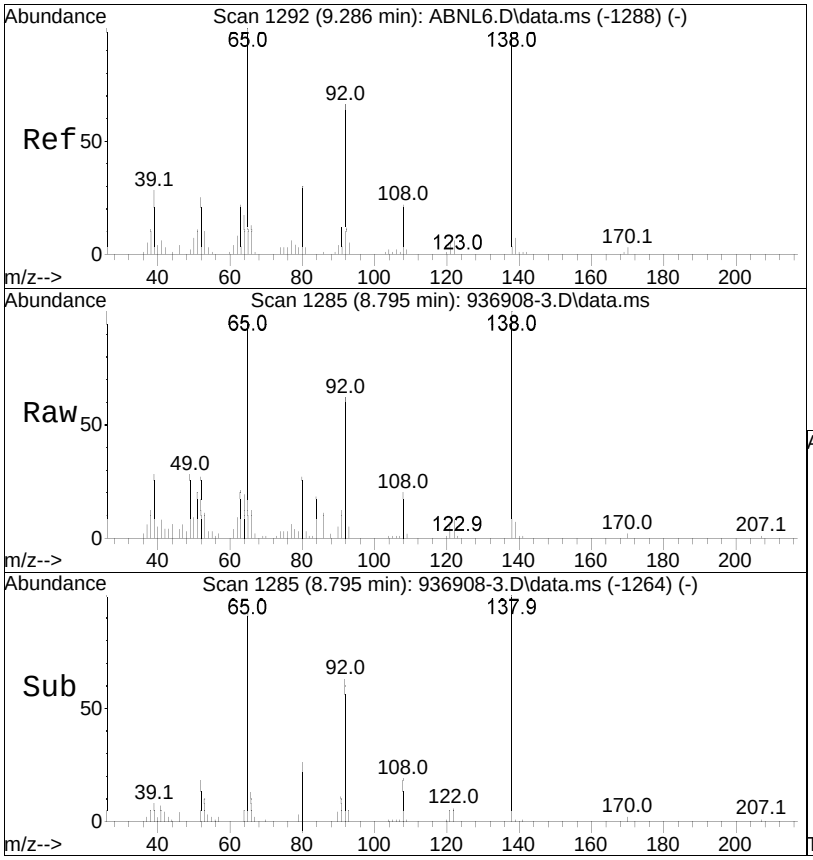


#44
2,4,5-Trichlorophenol
Concen: 0.86 ug/ml
RT: 8.530 min Scan# 1240
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:196 Resp: 12825

Ion	Ratio	Lower	Upper
196	100		
200	30.9	25.4	38.0
198	95.5	78.0	117.0

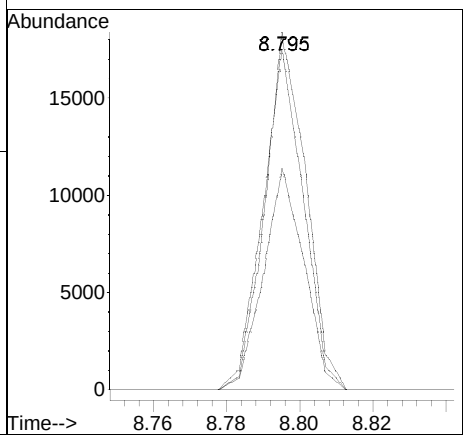


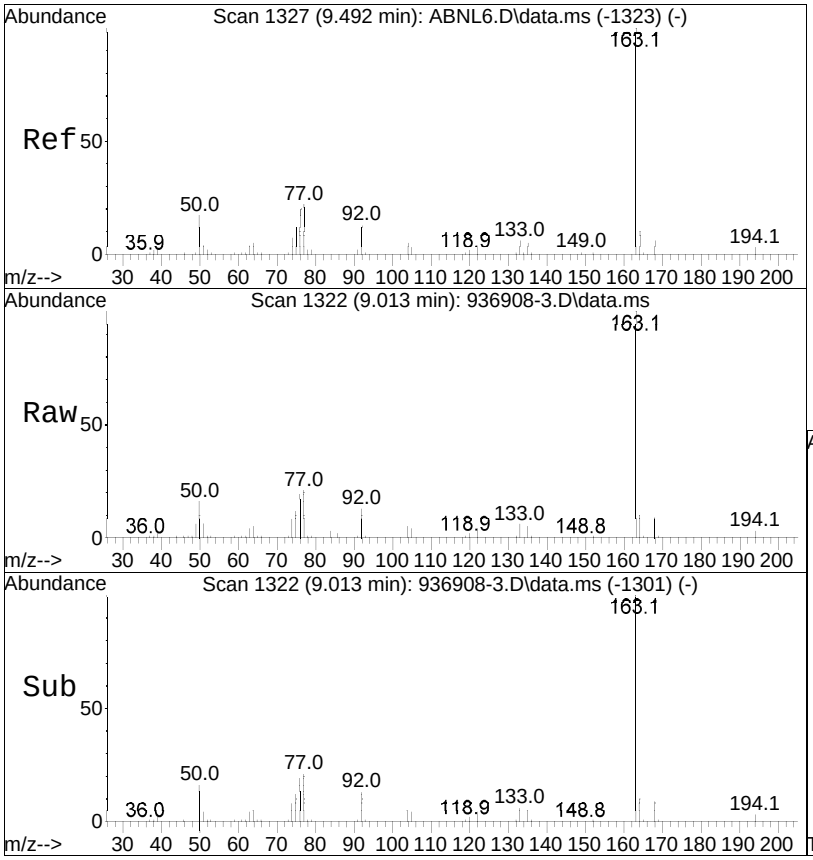


#47
2-Nitroaniline
Concen: 1.37 ug/ml
RT: 8.795 min Scan# 1285
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:138 Resp: 14107

Ion	Ratio	Lower	Upper
138	100		
92	61.8	53.5	80.3
65	94.4	86.3	129.5

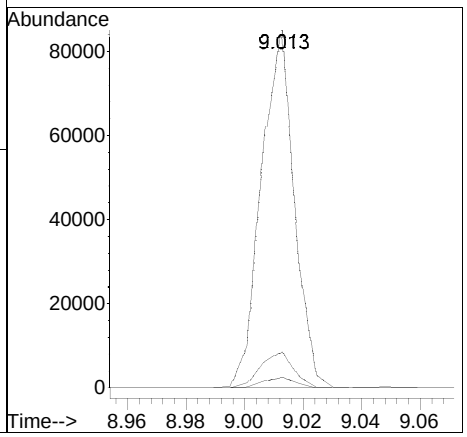


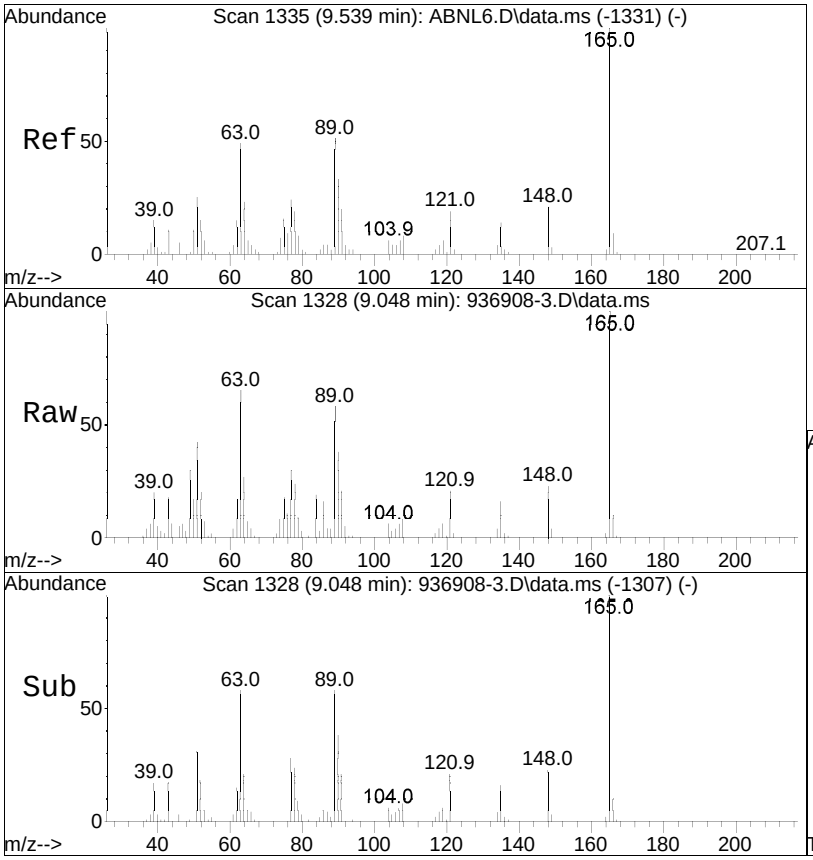


#50
Dimethyl phthalate
Concen: 1.32 ug/ml
RT: 9.013 min Scan# 1322
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:163 Resp: 65901

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.2	7.9	11.9

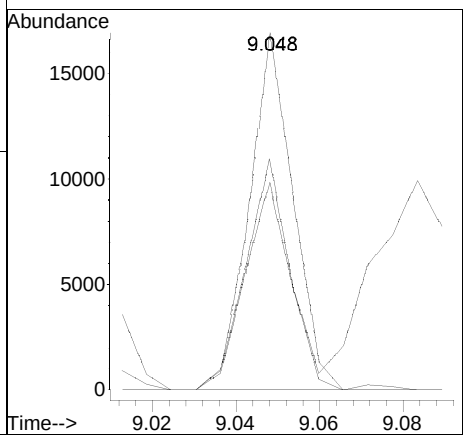


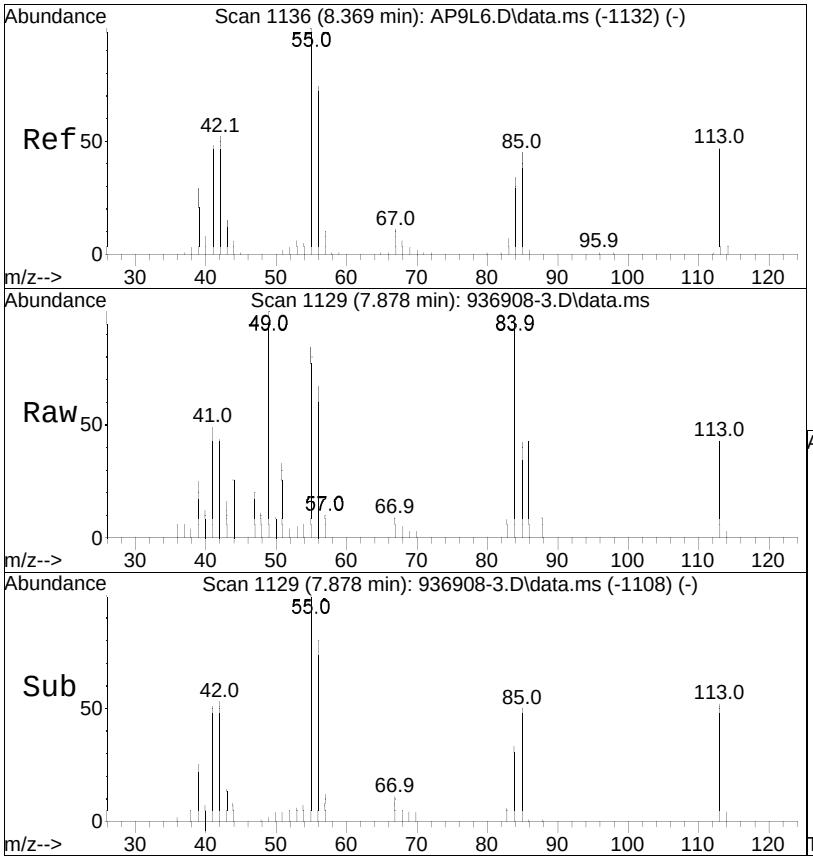


#52
2,6-Dinitrotoluene
Concen: 1.36 ug/ml
RT: 9.048 min Scan# 1328
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:165 Resp: 12347

Ion	Ratio	Lower	Upper
165	100		
89	61.6	54.2	81.2
63	65.6	64.2	96.2

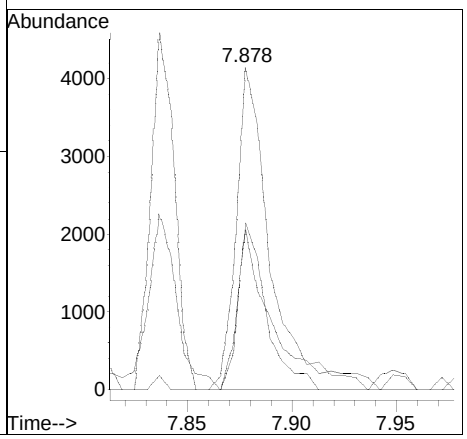


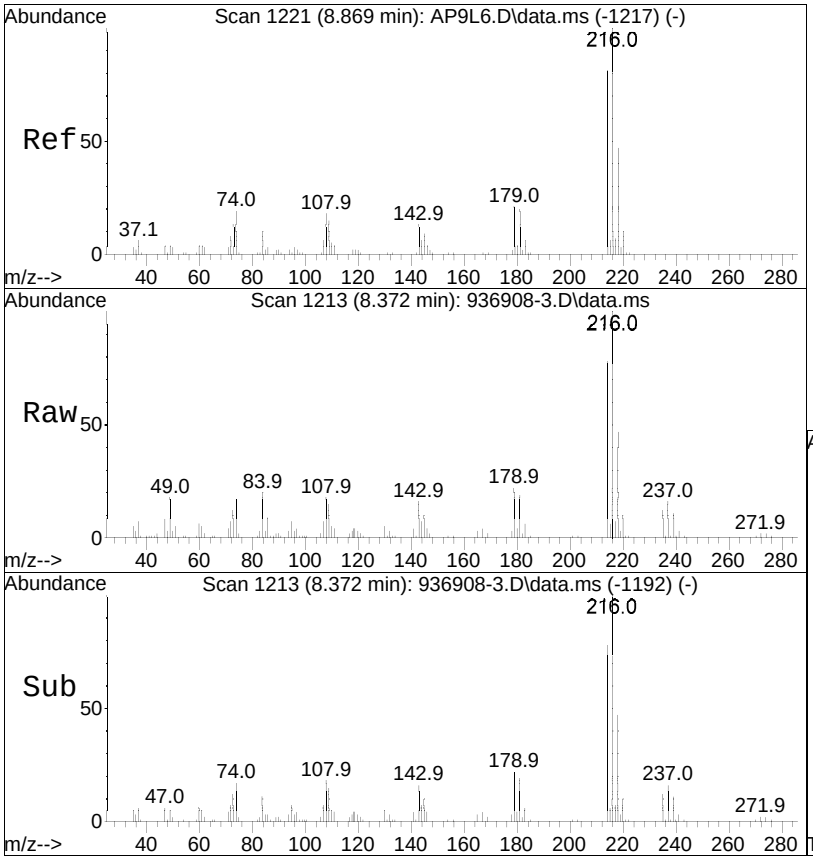


#59
Caprolactam
Concen: 0.53 ug/ml
RT: 7.878 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 55 Resp: 4697

Ion	Ratio	Lower	Upper
55	100		
85	54.1	19.8	29.6#
113	43.0	29.6	44.4

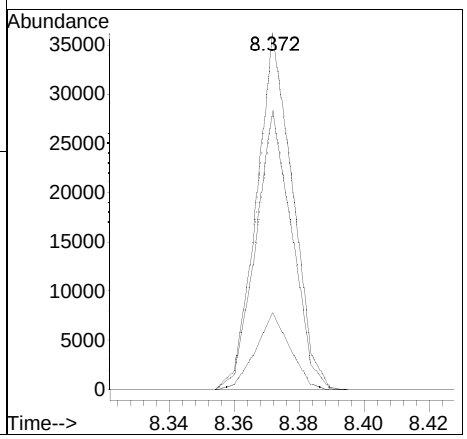


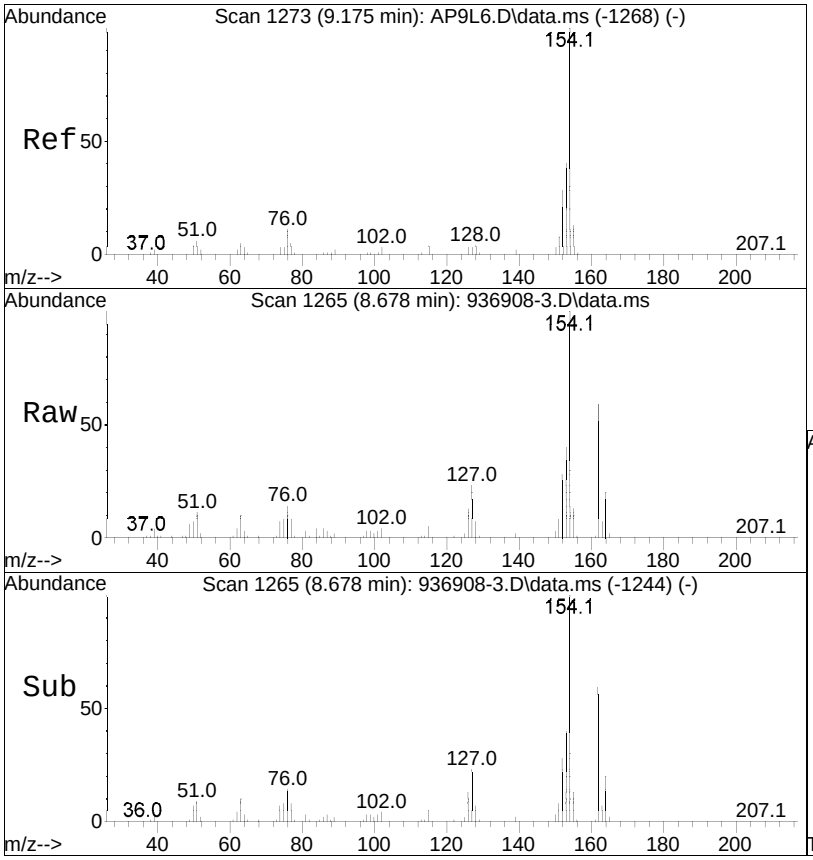


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.16 ug/ml
RT: 8.372 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:216 Resp: 27819

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.7	95.5
179	20.8	19.0	28.6

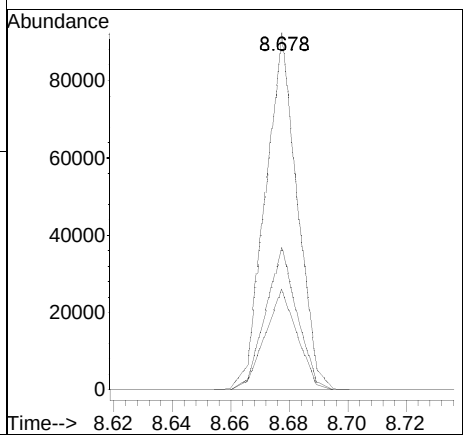


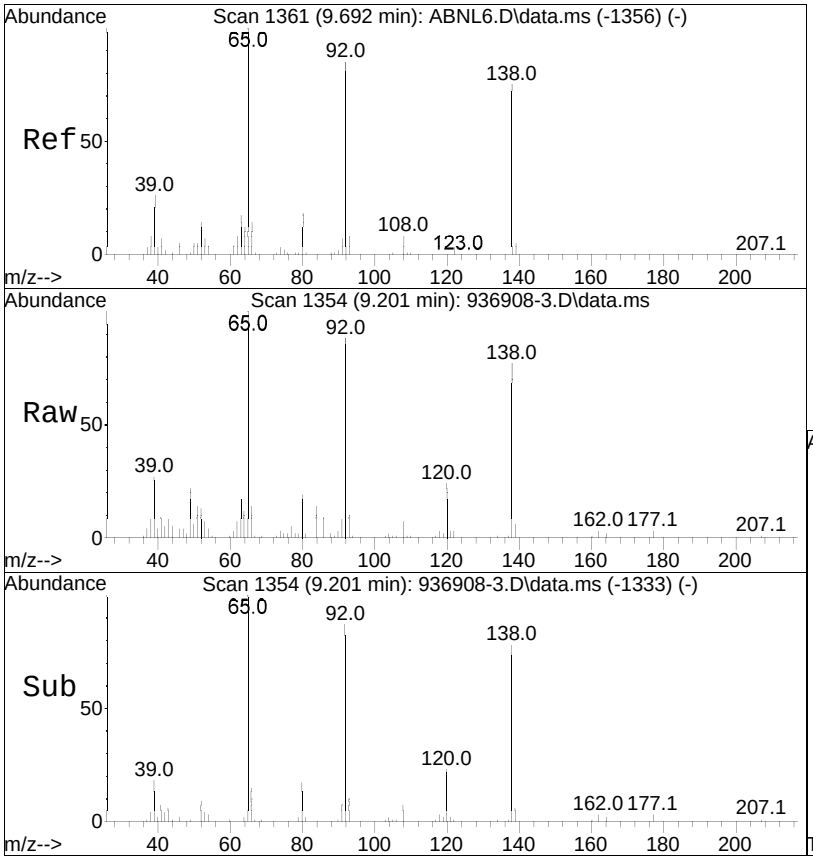


#61
Biphenyl
Concen: 1.25 ug/ml
RT: 8.678 min Scan# 1265
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:154 Resp: 69411

Ion	Ratio	Lower	Upper
154	100		
153	39.7	32.3	48.5
152	28.7	22.5	33.7

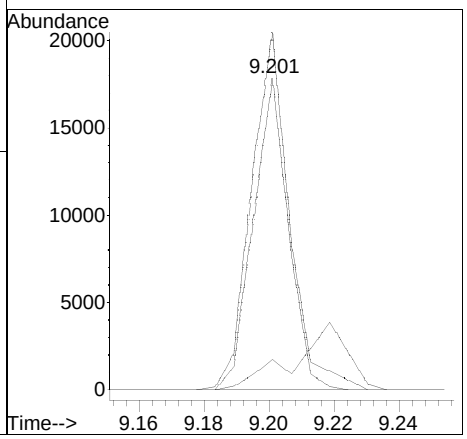


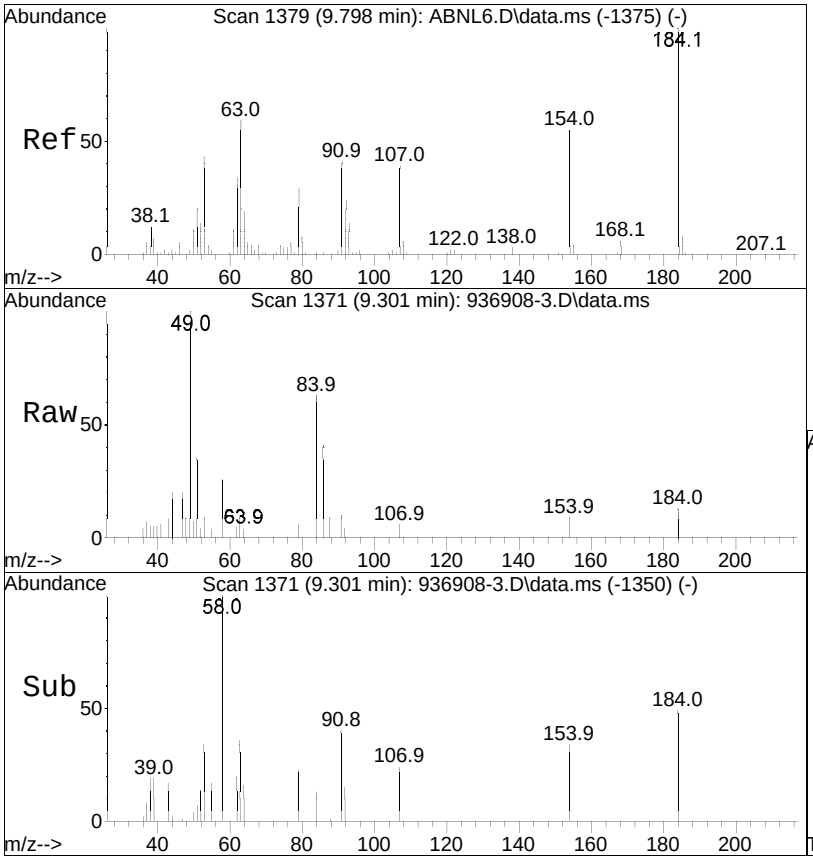


#63
3-Nitroaniline
Concen: 1.45 ug/ml
RT: 9.201 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:138 Resp: 13246

Ion	Ratio	Lower	Upper
138	100		
92	124.3	93.4	140.2
108	32.9	9.5	14.3#

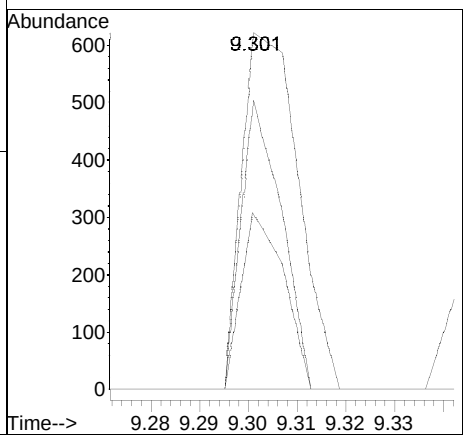


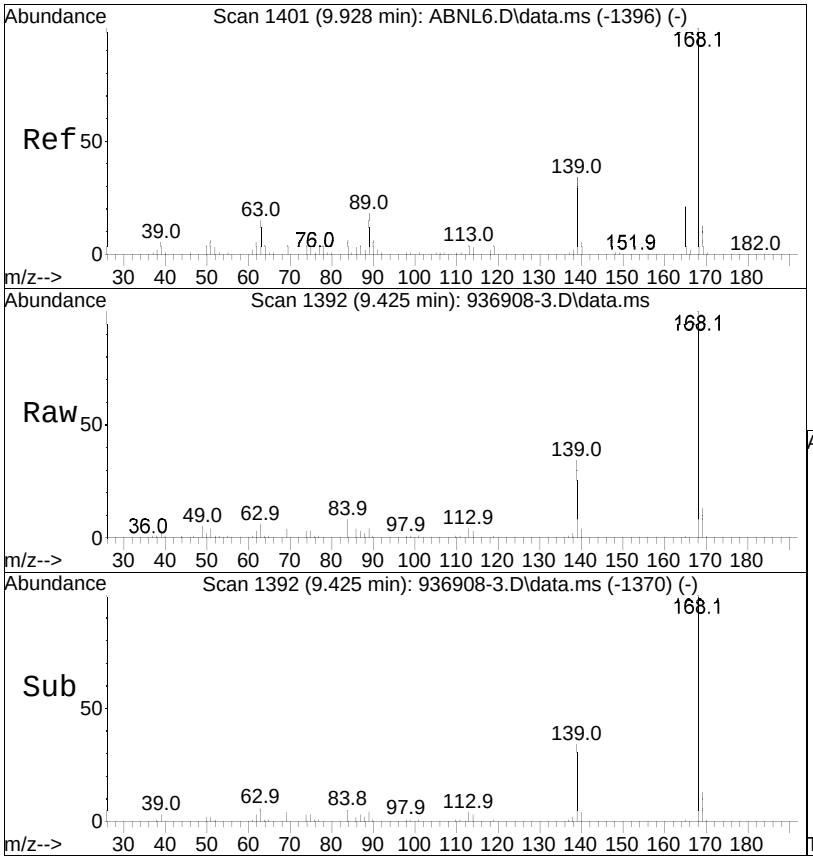


#65
2,4-Dinitrophenol
Concen: 1.03 ug/ml
RT: 9.301 min Scan# 1371
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:184 Resp: 498

Ion	Ratio	Lower	Upper
184	100		
107	0.0	37.7	56.5#
91	369.3	46.3	69.5#

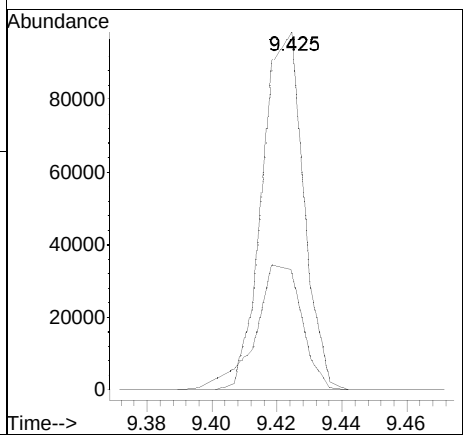


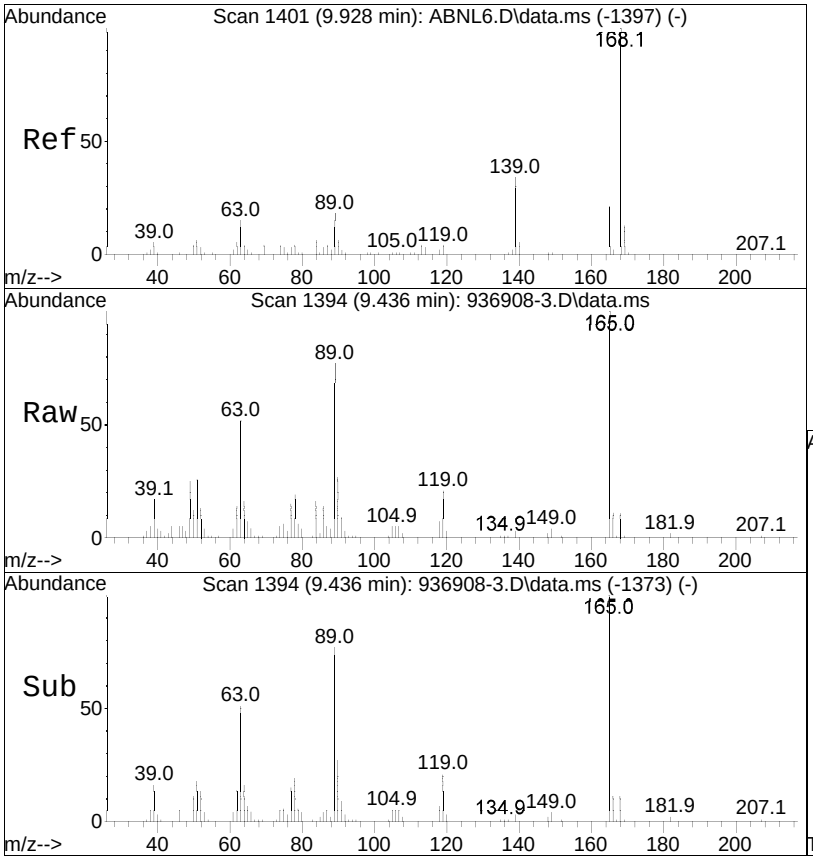


#66
Dibenzofuran
Concen: 1.40 ug/ml
RT: 9.425 min Scan# 1392
Delta R.T. 0.006 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:168 Resp: 86166

Ion	Ratio	Lower	Upper
168	100		
139	39.8	31.4	47.2

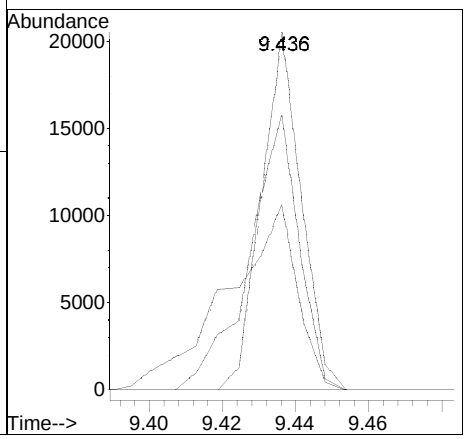


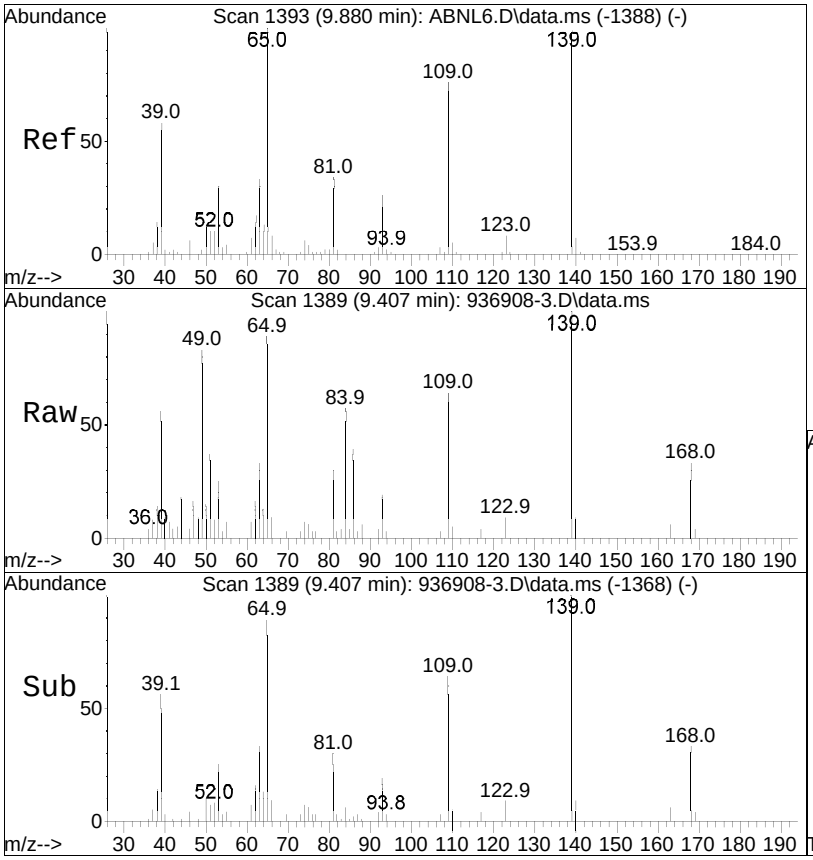


#67
2,4-Dinitrotoluene
Concen: 1.43 ug/ml
RT: 9.436 min Scan# 1394
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:165 Resp: 15439

Ion	Ratio	Lower	Upper
165	100		
89	96.2	72.0	108.0
63	91.3	52.7	79.1#

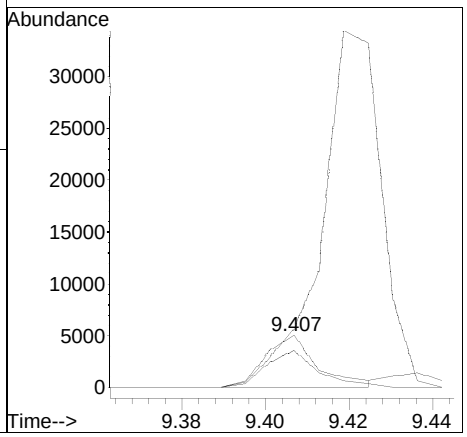


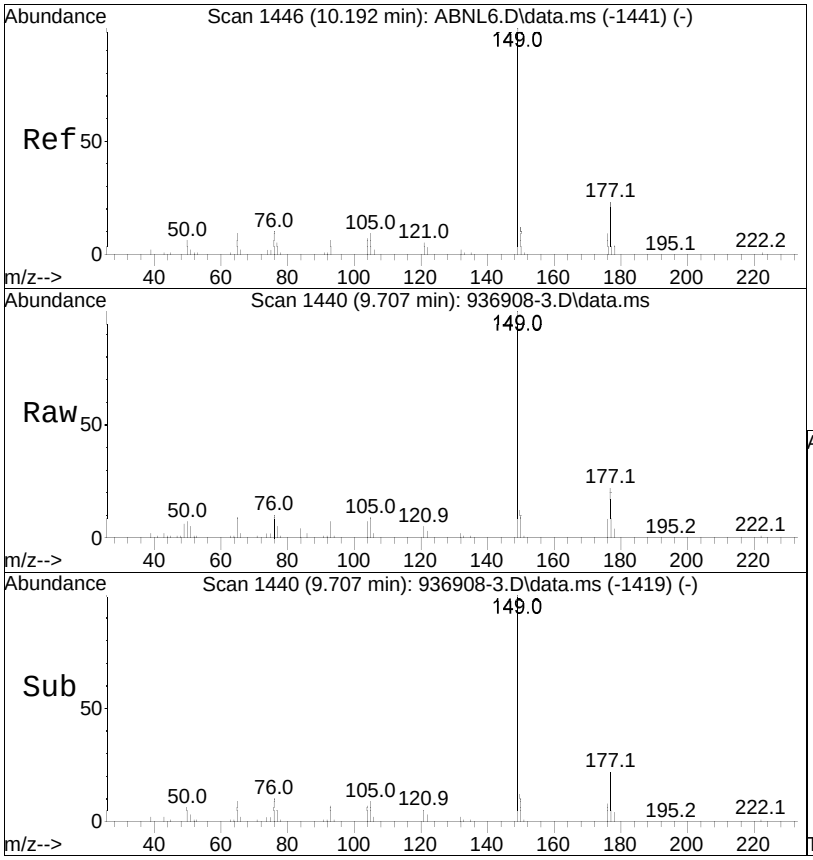


#68
4-Nitrophenol
Concen: 0.57 ug/ml
RT: 9.407 min Scan# 1389
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion: 65 Resp: 4401

Ion	Ratio	Lower	Upper
65	100		
109	70.8	47.4	71.2
139	779.8	76.6	115.0#

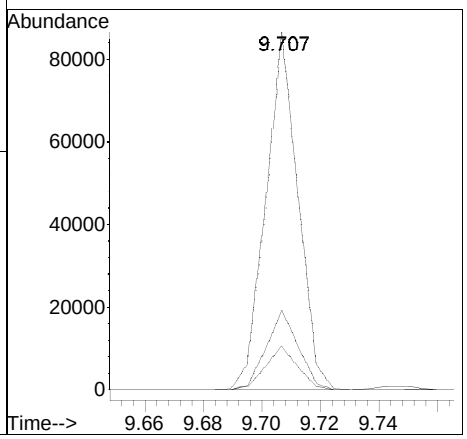


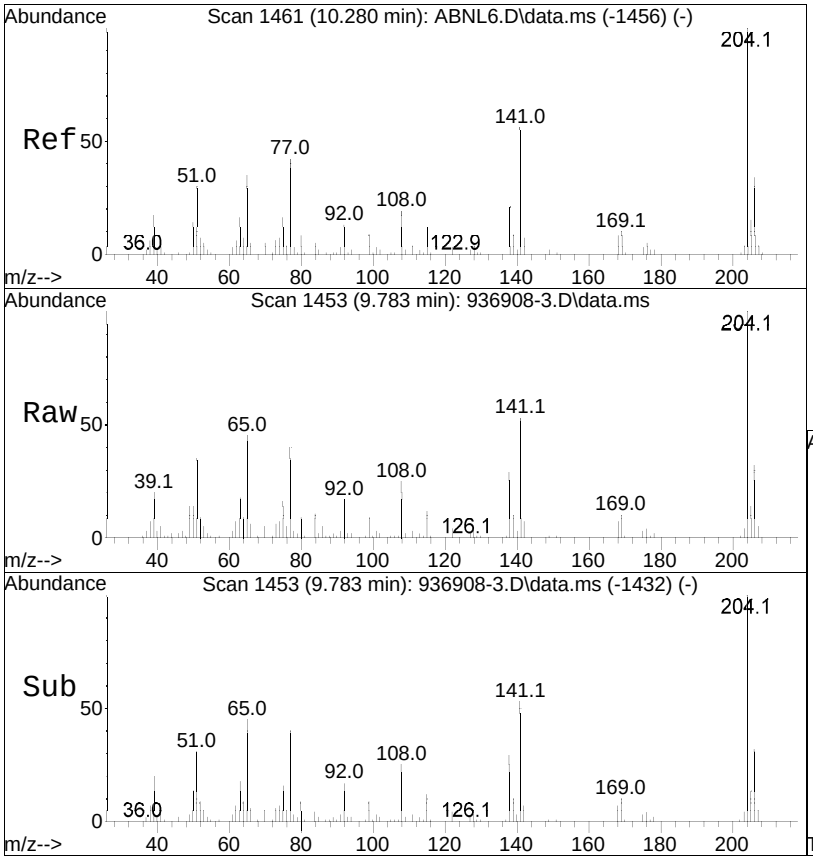


#71
Diethyl phthalate
Concen: 1.42 ug/ml
RT: 9.707 min Scan# 1440
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:149 Resp: 65147

Ion	Ratio	Lower	Upper
149	100		
177	22.3	16.1	24.1
150	12.3	9.4	14.2

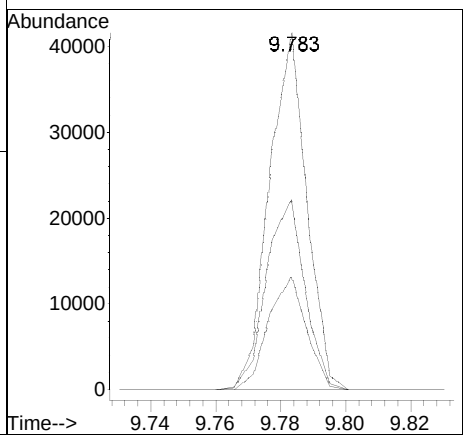


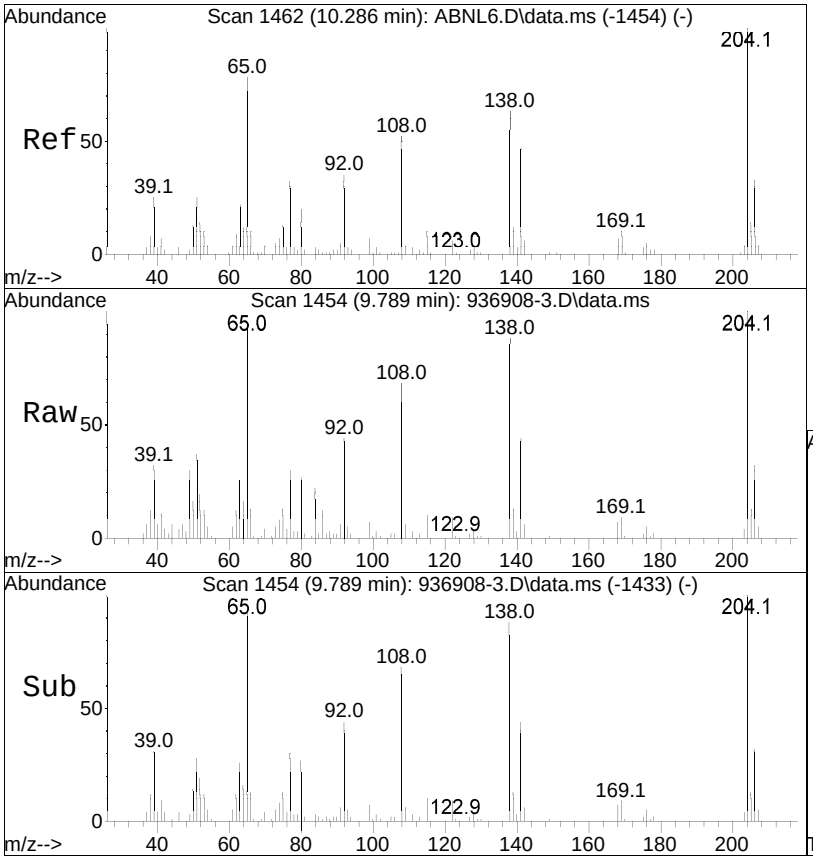


#73
4-Chlorophenyl phenyl ether
Concen: 1.39 ug/ml
RT: 9.783 min Scan# 1453
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:204 Resp: 32936

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	55.5	53.6	80.4

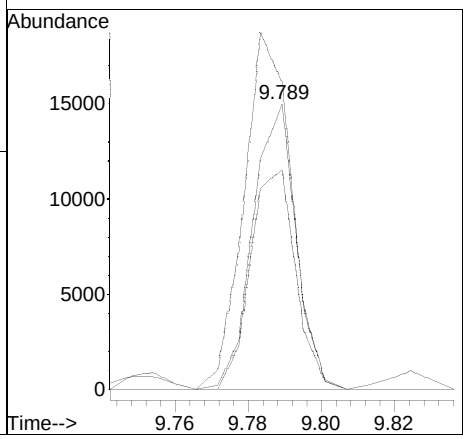


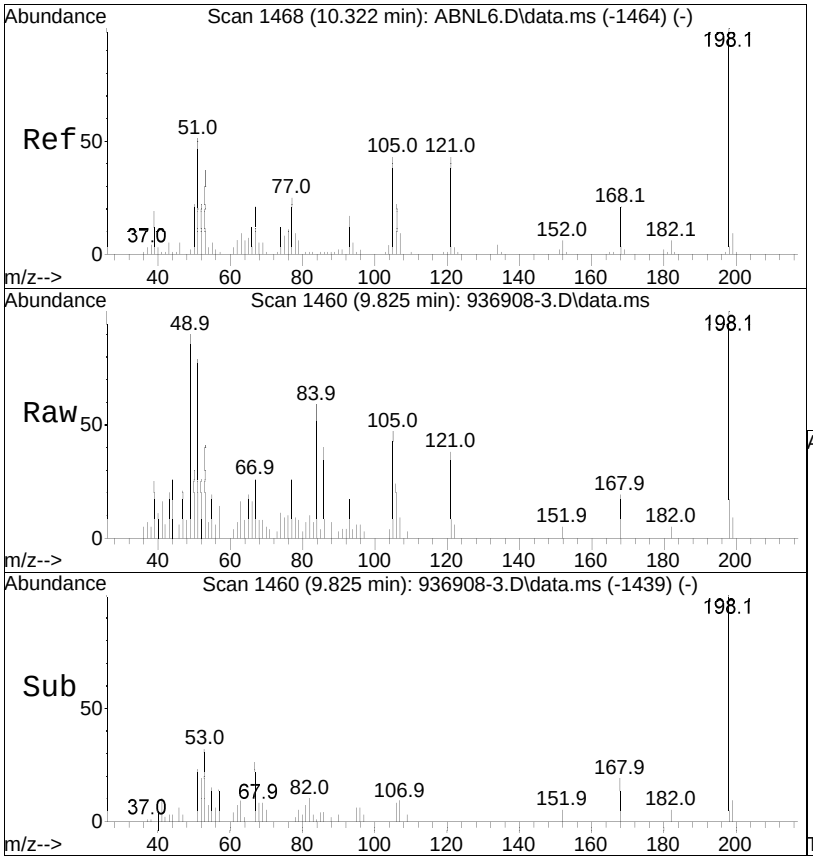


#74
4-Nitroaniline
Concen: 1.32 ug/ml
RT: 9.789 min Scan# 1454
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:138 Resp: 12206

Ion	Ratio	Lower	Upper
138	100		
108	80.9	52.1	78.1#
65	137.8	115.0	172.6

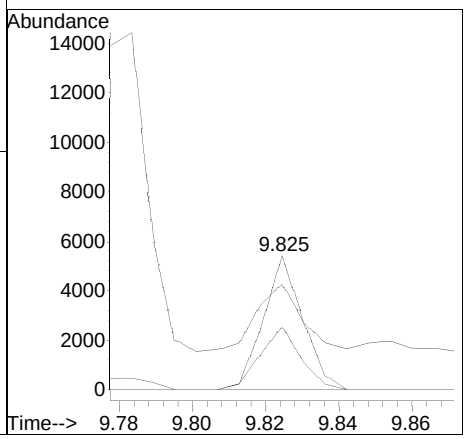


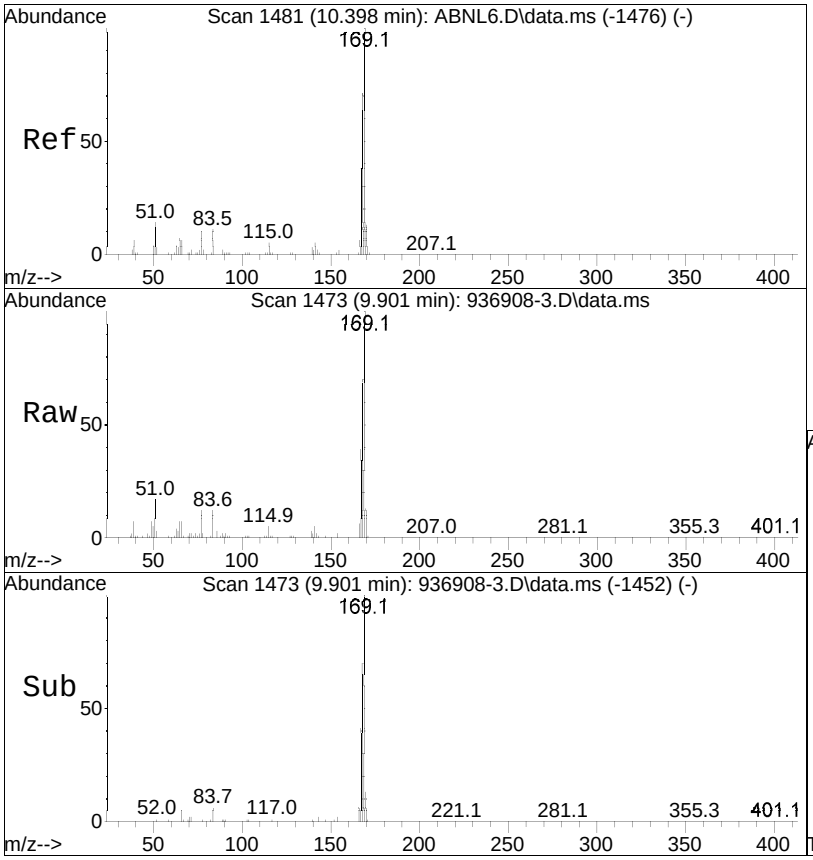


#75
4,6-Dinitro-o-cresol
Concen: 1.05 ug/ml
RT: 9.825 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:198 Resp: 4016

Ion	Ratio	Lower	Upper
198	100		
51	58.3	76.0	114.0#
105	48.7	45.6	68.4

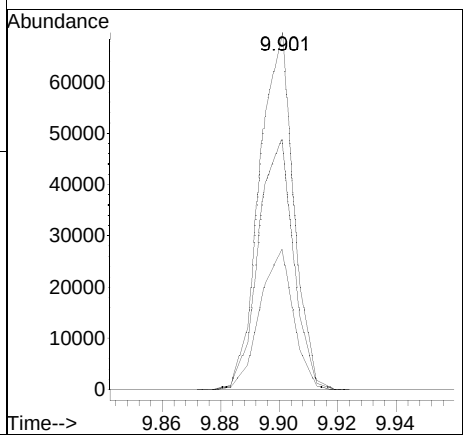


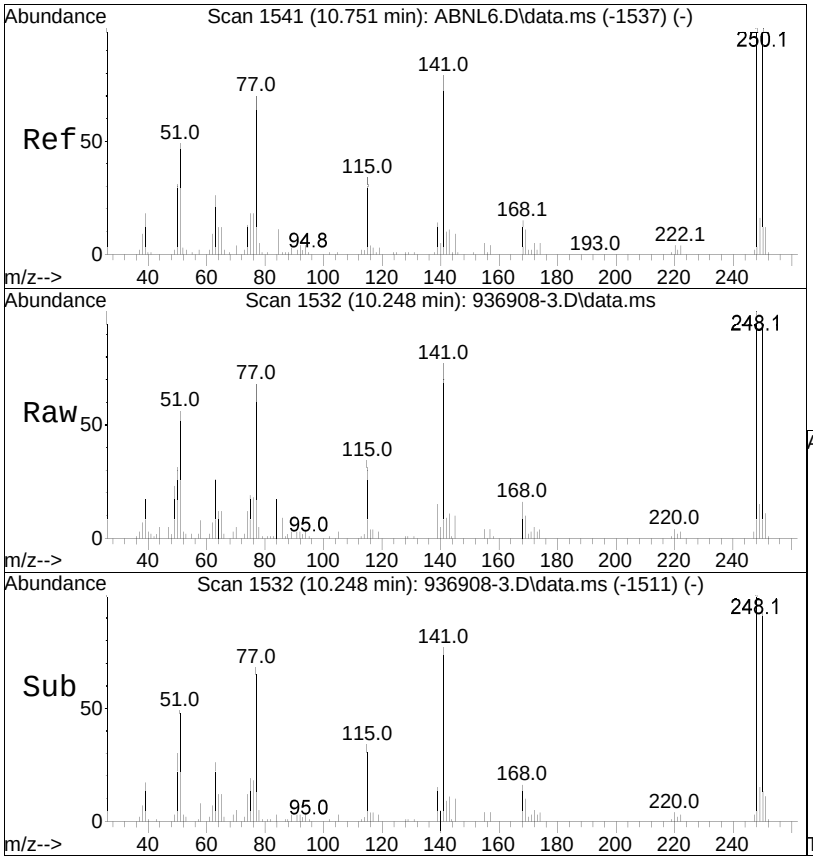


#76
NDPA/DPA
Concen: 1.42 ug/ml
RT: 9.901 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:169 Resp: 56293

Ion	Ratio	Lower	Upper
169	100		
168	72.2	54.0	81.0
167	39.2	28.6	42.8

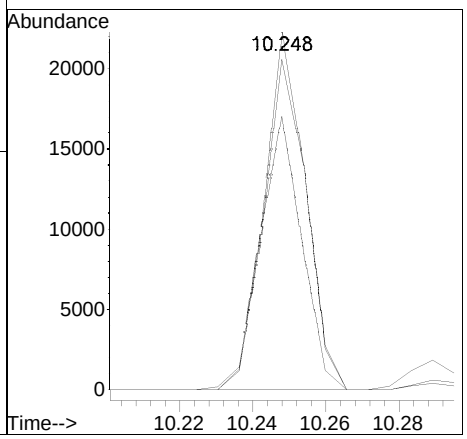


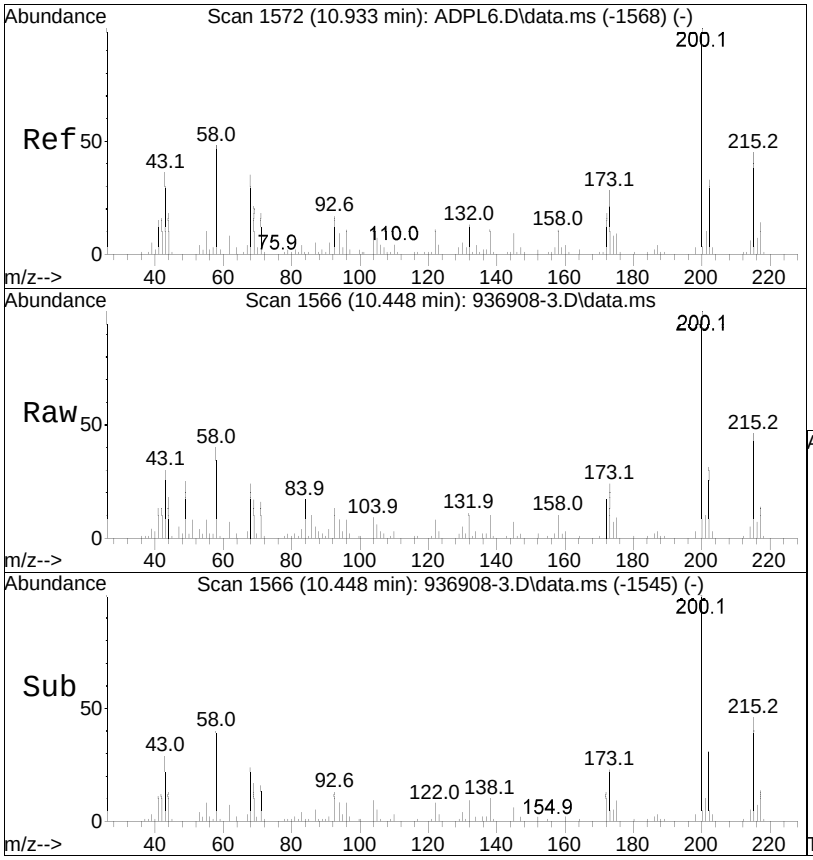


#79
4-Bromophenyl phenyl ether
Concen: 1.32 ug/ml
RT: 10.248 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:248 Resp: 17447

Ion	Ratio	Lower	Upper
248	100		
141	77.0	76.6	114.8
250	95.6	77.3	115.9

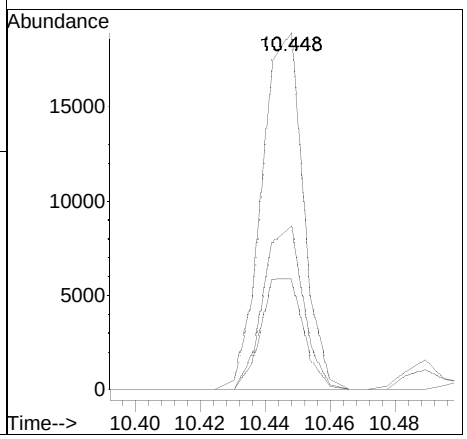


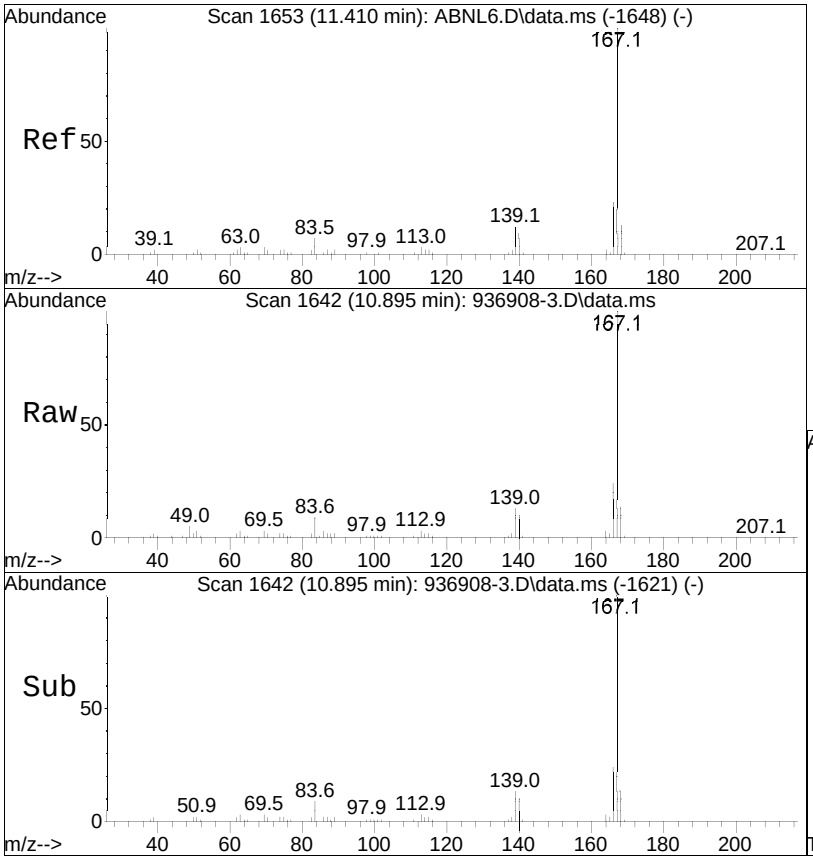


#86
Atrazine
Concen: 1.37 ug/ml
RT: 10.448 min Scan# 1566
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:200 Resp: 16680

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.8	38.6
215	44.4	40.2	60.4

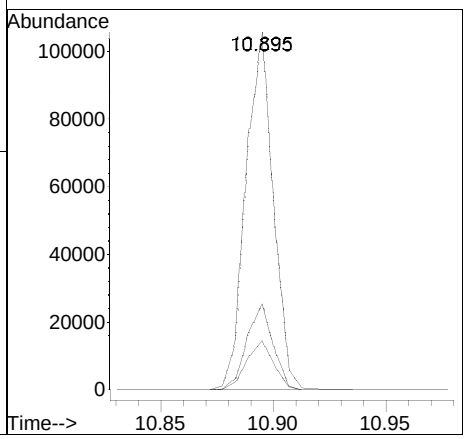


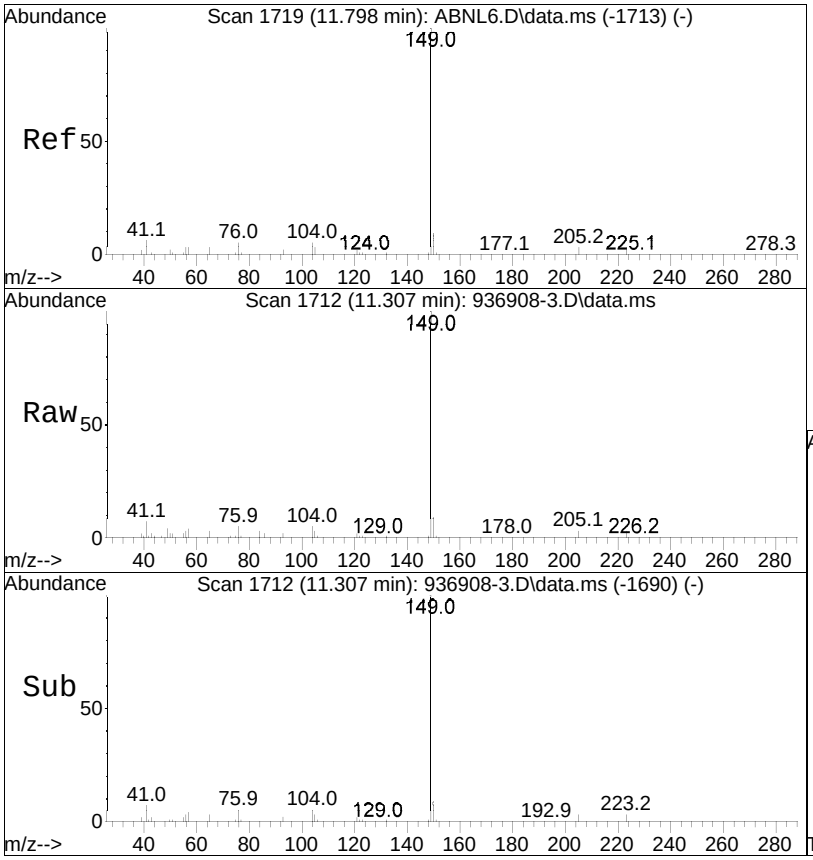


#90
Carbazole
Concen: 1.33 ug/ml
RT: 10.895 min Scan# 1642
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:167 Resp: 88474

Ion	Ratio	Lower	Upper
167	100		
168	13.8	10.6	15.8
166	23.2	17.4	26.0

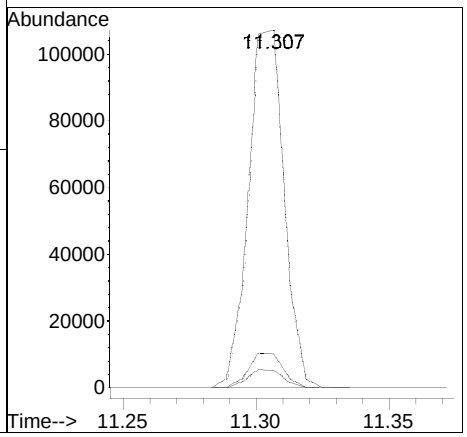


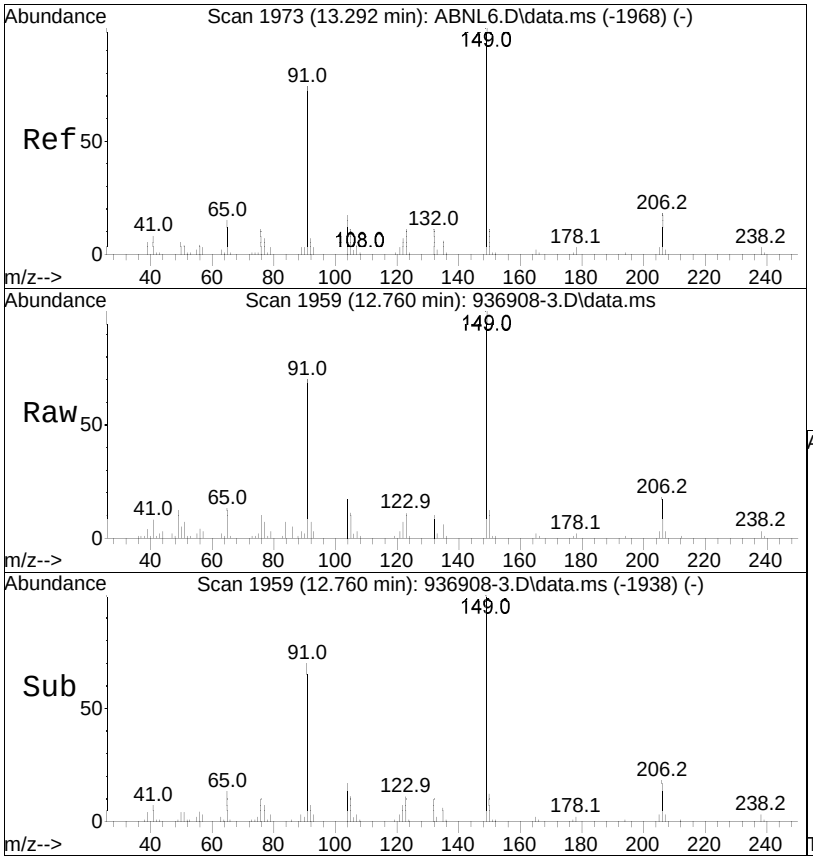


#91
Di-n-butylphthalate
Concen: 1.26 ug/ml
RT: 11.307 min Scan# 1712
Delta R.T. 0.006 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:149 Resp: 98604

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	5.3	4.5	6.7

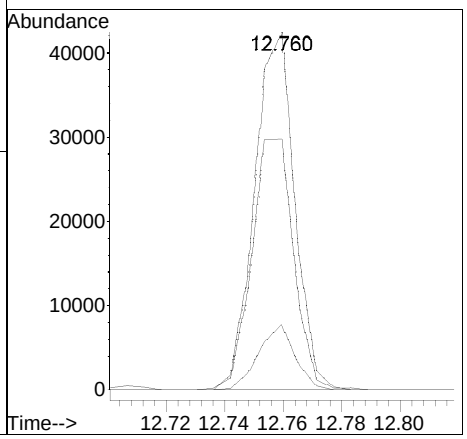


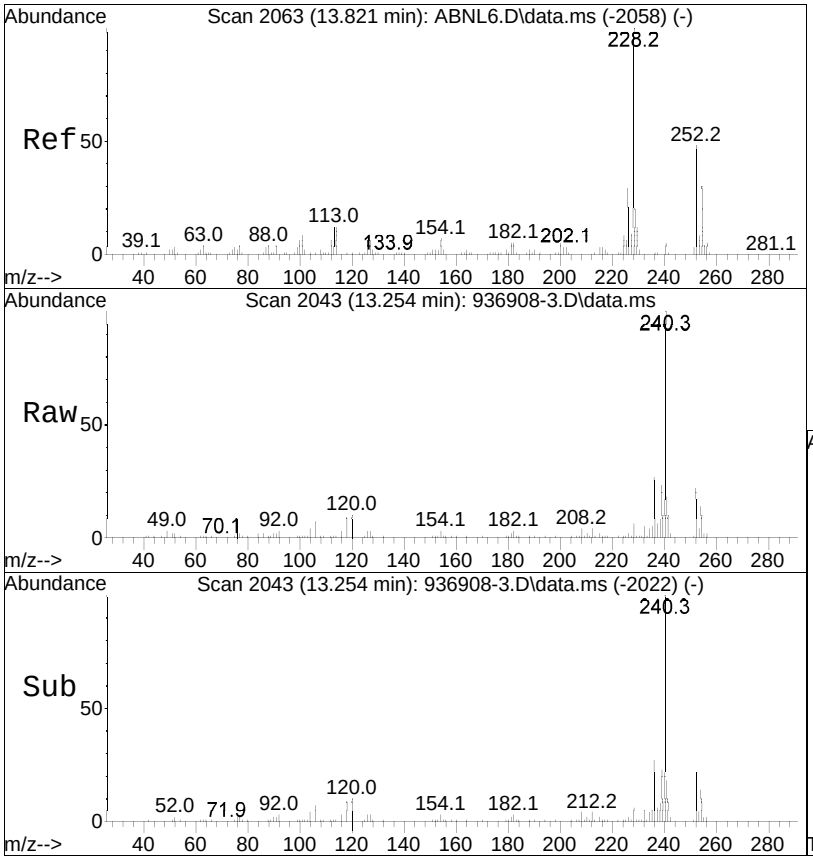


#96
Butyl benzyl phthalate
Concen: 1.39 ug/ml
RT: 12.760 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:149 Resp: 39937

Ion	Ratio	Lower	Upper
149	100		
91	73.7	63.3	94.9
206	16.7	13.9	20.9

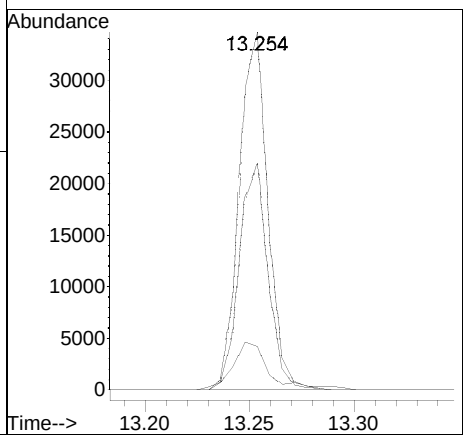


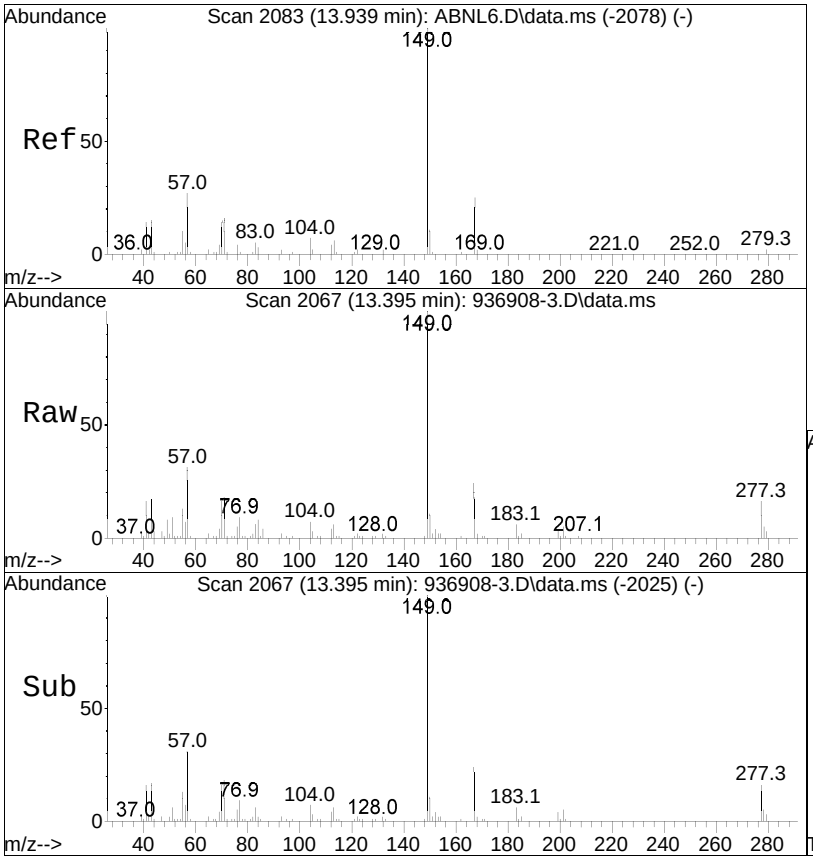


#105
3,3'-Dichlorobenzidine
Concen: 1.33 ug/ml
RT: 13.254 min Scan# 2043
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:252 Resp: 32900

Ion	Ratio	Lower	Upper
252	100		
126	16.2	14.5	21.7
254	63.3	51.2	76.8

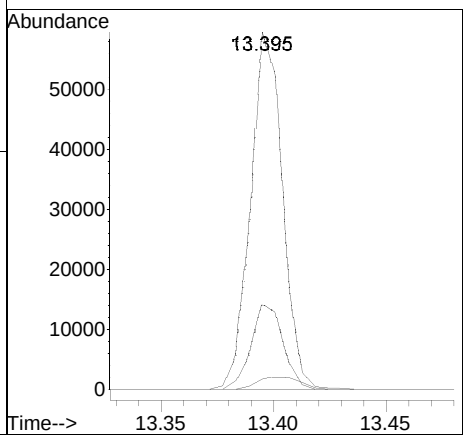


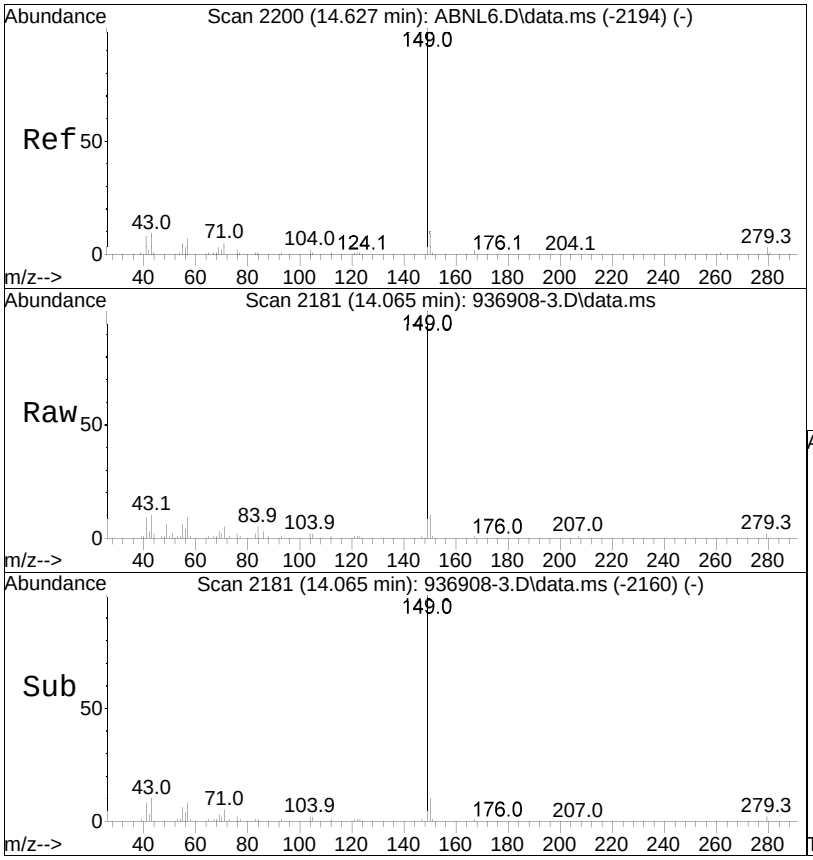


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.31 ug/ml
RT: 13.395 min Scan# 2067
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:149 Resp: 58065

Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	4.6	3.0	4.4#

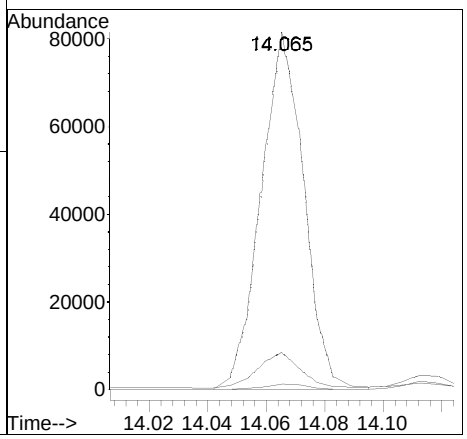




#108
Di-n-octylphthalate
Concen: 1.35 ug/ml
RT: 14.065 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 936908-3.D
Acq: 21 Jun 2024 5:22 am

Tgt Ion:149 Resp: 81875

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.4	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-4.D
Acq On : 21 Jun 2024 10:26 am
Operator : SV107:sz
Sample : WG1936908-4,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 11:54:15 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.954	152	68309	4.000	ug/ml	0.00
Standard Area 1 = 64707			Recovery = 105.57%			
27) IS2_1,4-Dichlorobenzen...	5.954	152	68309	4.000	ug/ml	0.00
Standard Area 3 = 64708			Recovery = 105.56%			
34) IS1_Naphthalene-d8	7.442	136	250044	4.000	ug/ml	0.00
Standard Area 1 = 235755			Recovery = 106.06%			
54) IS2_Naphthalene-d8	7.442	136	250044	4.000	ug/ml	0.00
Standard Area 3 = 235329			Recovery = 106.25%			
62) IS1_Acenaphthene-d10	9.219	164	156602	4.000	ug/ml	0.00
Standard Area 1 = 141034			Recovery = 111.04%			
82) IS2_Acenaphthene-d10	9.219	164	156602	4.000	ug/ml	0.00
Standard Area 3 = 132909			Recovery = 117.83%			
85) IS3_Acenaphthene-d10	9.219	164	156602	4.000	ug/ml	0.00
Standard Area 2 = 134249			Recovery = 116.65%			
87) IS1_Phenanthrene-d10	10.648	188	311131	4.000	ug/ml	0.00
Standard Area 1 = 276864			Recovery = 112.38%			
99) IS3_Phenanthrene-d10	10.648	188	311131	4.000	ug/ml	0.00
Standard Area 2 = 271047			Recovery = 114.79%			
103) IS1_Chrysene-d12	13.254	240	250391	4.000	ug/ml	0.00
Standard Area 1 = 231677			Recovery = 108.08%			
112) IS1_Perylene-d12	14.695	264	254446	4.000	ug/ml	0.01
Standard Area 1 = 238143			Recovery = 106.85%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.607	112	8142	0.446	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 22.30%			
7) Phenol-d6	5.589	99	10494	0.465	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.25%			
19) Nitrobenzene-d5	6.654	82	16651	0.837	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 83.70%			
45) 2-Fluorobiphenyl	8.589	172	38475	0.711	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.10%			
78) 2,4,6-Tribromophenol	9.989	330	3767	0.564	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.20%			
95) 4-Terphenyl-d14	12.236	244	44368	0.652	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.20%			

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-4.D
Acq On : 21 Jun 2024 10:26 am
Operator : SV107:sz
Sample : WG1936908-4,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 11:54:15 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
6) 2-Chlorophenol	5.672	128	15604	0.775 ug/ml	98
8) Phenol	5.607	94	15194	0.619 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.389	45	45076	1.626 ug/ml#	59
15) 2-Methylphenol	6.389	108	21131	1.200 ug/ml	99
17) n-Nitrosodi-n-propylamine	6.542	70	23231	1.547 ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.589	108	21182	1.144 ug/ml#	51
20) Nitrobenzene	6.678	77	32760	1.603 ug/ml	96
21) Isophorone	6.972	82	57168	1.449 ug/ml	97
22) 2-Nitrophenol	7.048	139	6488	0.713 ug/ml	94
23) 2,4-Dimethylphenol	7.172	107	24023	1.293 ug/ml	99
24) Bis(2-chloroethoxy)met...	7.266	93	39165	1.521 ug/ml#	98
25) 2,4-Dichlorophenol	7.325	162	14322	0.767 ug/ml	94
28) Benzaldehyde	5.319	105	25501	1.459 ug/ml	98
29) Acetophenone	6.495	105	45840	1.516 ug/ml#	87
37) 4-Chloroaniline	7.560	65	9728	1.239 ug/ml	96
39) p-Chloro-m-cresol	8.113	107	19659	1.155 ug/ml	97
42) Hexachlorocyclopentadiene	8.377	237	15450	1.204 ug/ml	97
43) 2,4,6-Trichlorophenol	8.501	196	8154	0.551 ug/ml	98
44) 2,4,5-Trichlorophenol	8.530	196	9869	0.629 ug/ml	96
47) 2-Nitroaniline	8.795	138	15691	1.451 ug/ml	92
50) Dimethyl phthalate	9.013	163	75904	1.448 ug/ml#	99
52) 2,6-Dinitrotoluene	9.048	165	14056	1.474 ug/ml#	83
59) Caprolactam	7.877	55	5735	0.615 ug/ml#	85
60) 1,2,4,5-Tetrachloroben...	8.372	216	33342	1.327 ug/ml	97
61) Biphenyl	8.677	154	78157	1.346 ug/ml	99
63) 3-Nitroaniline	9.201	138	14733	1.450 ug/ml#	88
65) 2,4-Dinitrophenol	0.000		0	N.D.	
66) Dibenzofuran	9.419	168	95569	1.390 ug/ml	97
67) 2,4-Dinitrotoluene	9.436	165	17637	1.455 ug/ml#	92
68) 4-Nitrophenol	9.407	65	3103	0.358 ug/ml#	1
71) Diethyl phthalate	9.707	149	71450	1.402 ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.783	204	35451	1.348 ug/ml	90
74) 4-Nitroaniline	9.789	138	13846	1.347 ug/ml#	88
75) 4,6-Dinitro-o-cresol	9.824	198	2142	0.789 ug/ml#	65
76) NDPA/DPA	9.895	169	61773	1.395 ug/ml	95
79) 4-Bromophenyl phenyl e...	10.248	248	19720	1.338 ug/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-4.D
Acq On : 21 Jun 2024 10:26 am
Operator : SV107:sz
Sample : WG1936908-4,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 11:54:15 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	10.448	200	19134	1.408	ug/ml	97
90) Carbazole	10.895	167	97594	1.352	ug/ml	98
91) Di-n-butylphthalate	11.307	149	115693	1.367	ug/ml	98
96) Butyl benzyl phthalate	12.760	149	48227	1.503	ug/ml	95
105) 3,3'-Dichlorobenzidine	13.254	252	40527	1.506	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.401	149	70554	1.442	ug/ml	94
108) Di-n-octylphthalate	14.071	149	104975	1.517	ug/ml#	74

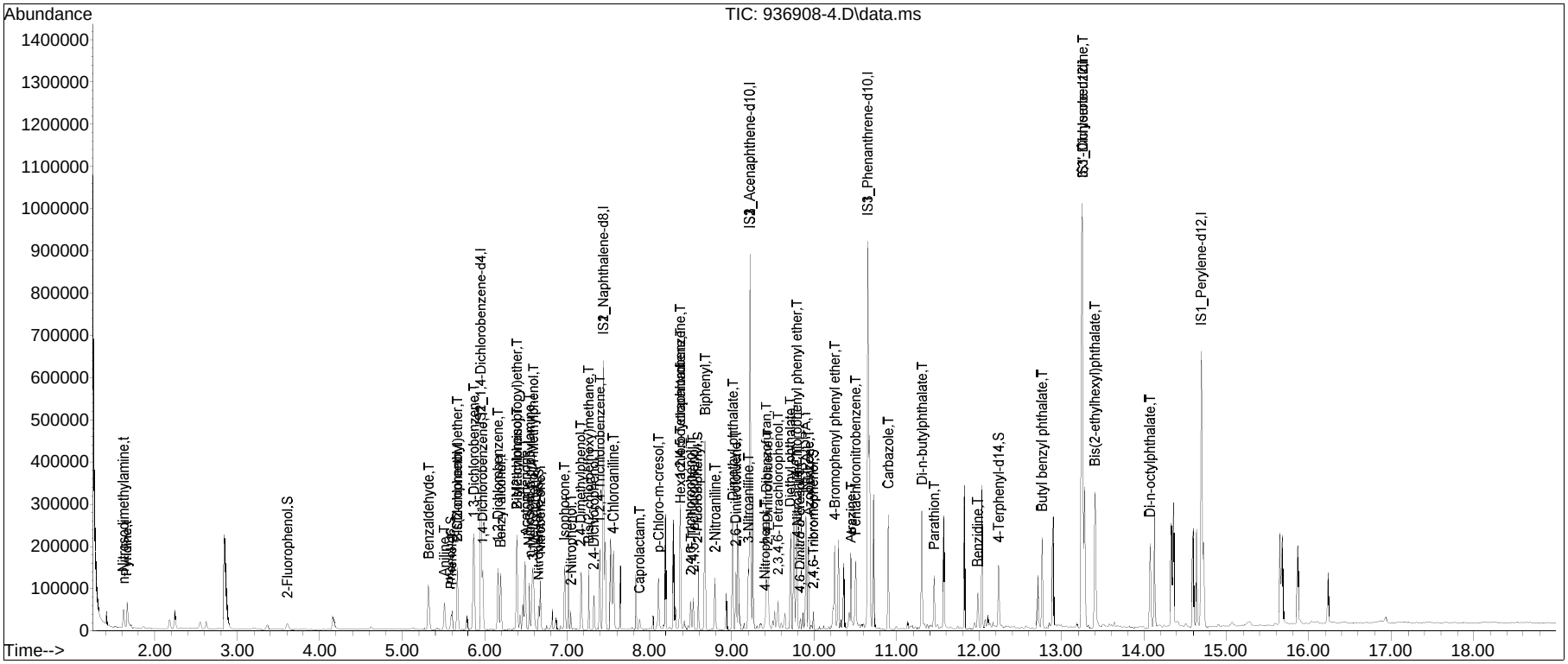
(#) = qualifier out of range (m) = manual integration (+) = signals summed

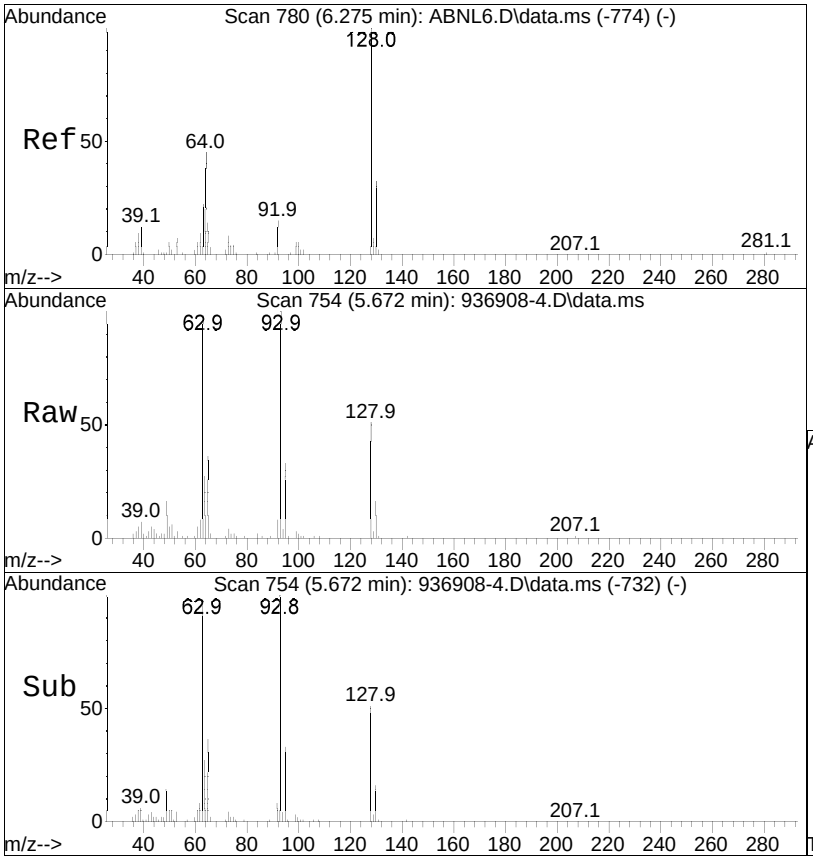
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-4.D
Acq On : 21 Jun 2024 10:26 am
Operator : SV107:sz
Sample : WG1936908-4,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 11:54:15 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:05:23 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90620n.D•

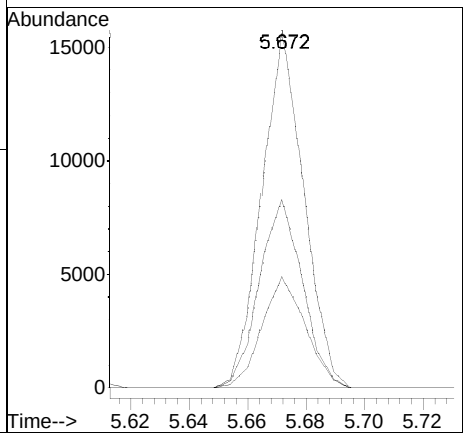


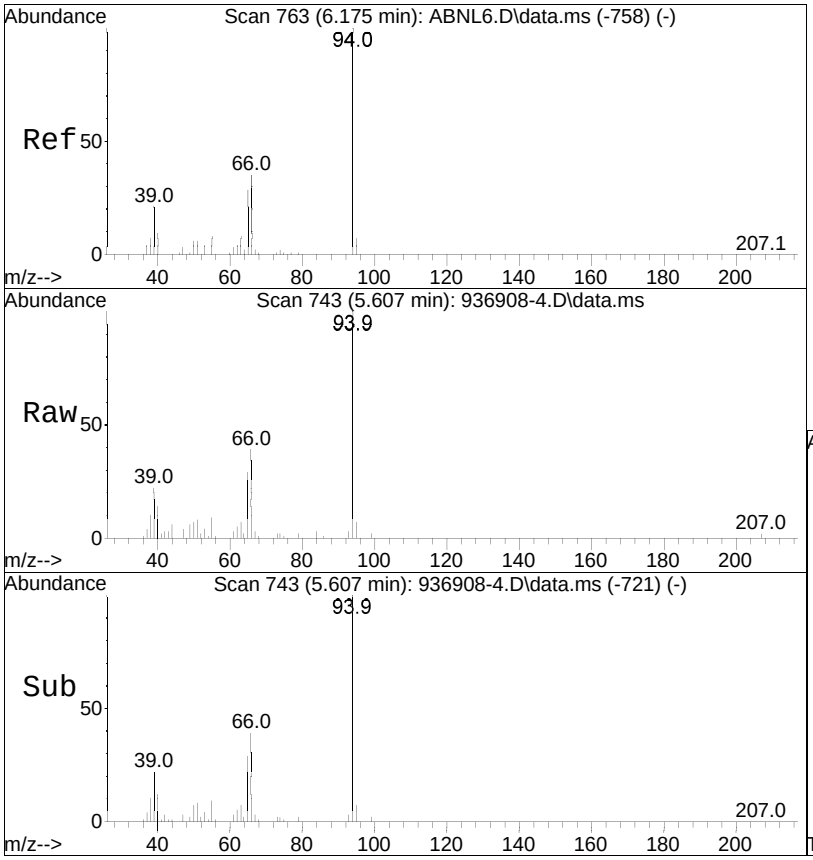


#6
2-Chlorophenol
Concen: 0.78 ug/ml
RT: 5.672 min Scan# 754
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:128 Resp: 15604

Ion	Ratio	Lower	Upper
128	100		
64	54.4	45.1	67.7
130	32.4	26.2	39.4

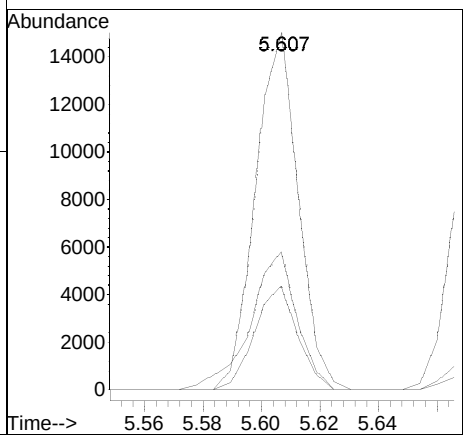


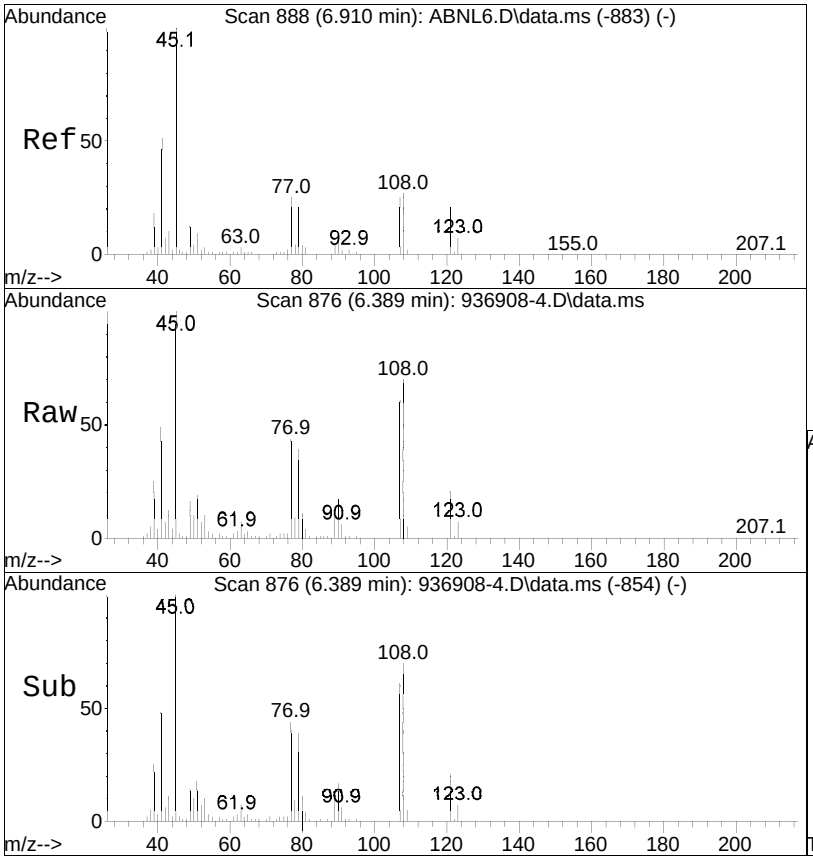


#8
Phenol
Concen: 0.62 ug/ml
RT: 5.607 min Scan# 743
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 94 Resp: 15194

Ion	Ratio	Lower	Upper
94	100		
65	29.3	26.0	39.0
66	42.2	33.8	50.8

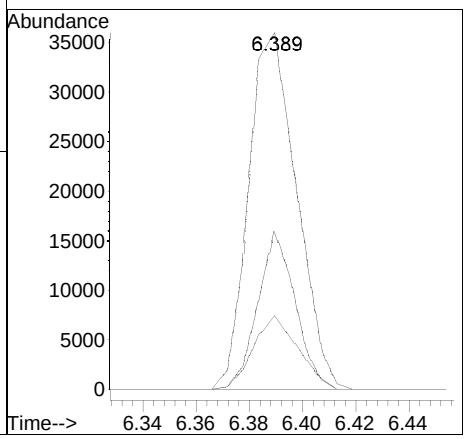


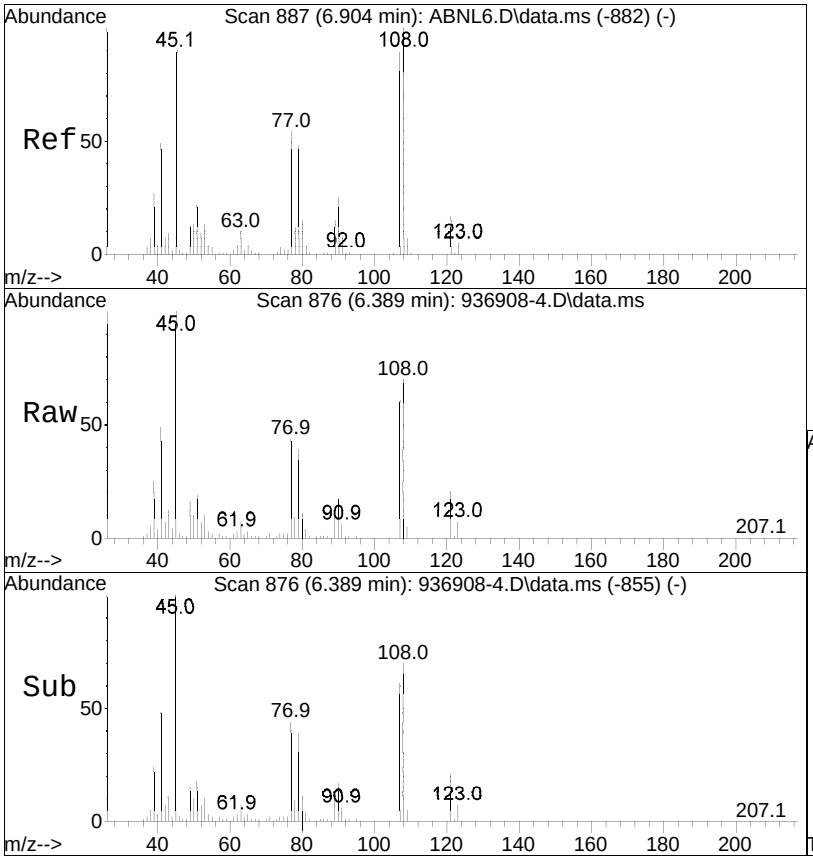


#14
Bis(2-chloroisopropyl)ether
Concen: 1.63 ug/ml
RT: 6.389 min Scan# 876
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 45 Resp: 45076

Ion	Ratio	Lower	Upper
45	100		
121	19.4	9.8	14.6#
77	34.7	6.1	9.1#

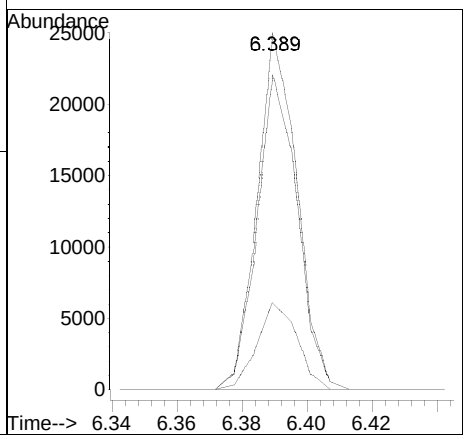


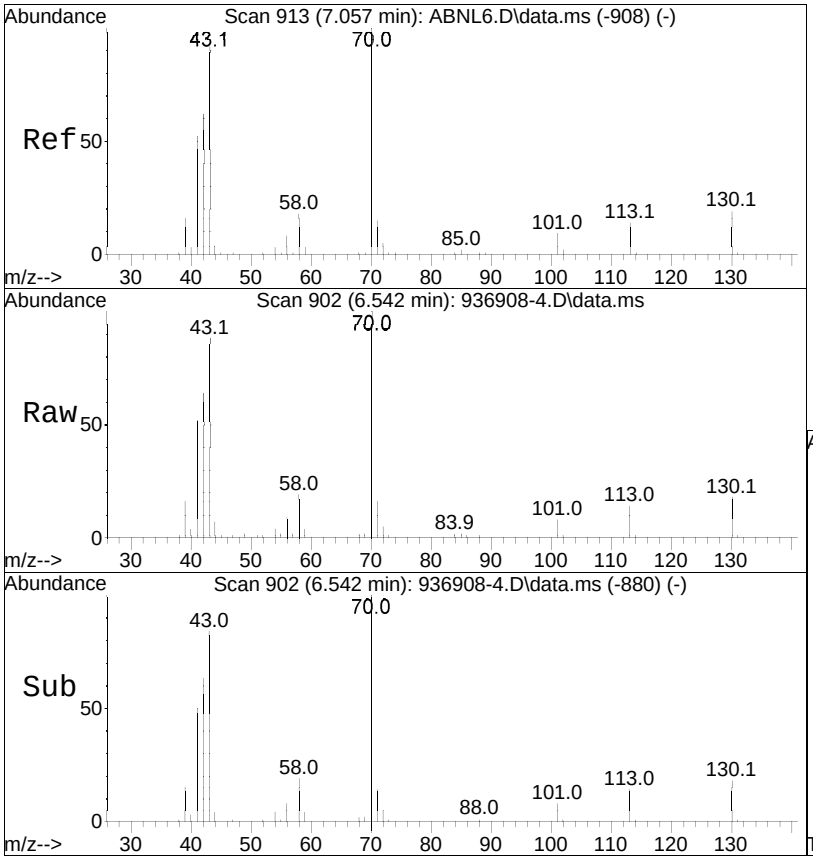


#15
2-Methylphenol
Concen: 1.20 ug/ml
RT: 6.389 min Scan# 876
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:108 Resp: 21131

Ion	Ratio	Lower	Upper
108	100		
107	89.3	70.7	106.1
90	24.7	18.7	28.1

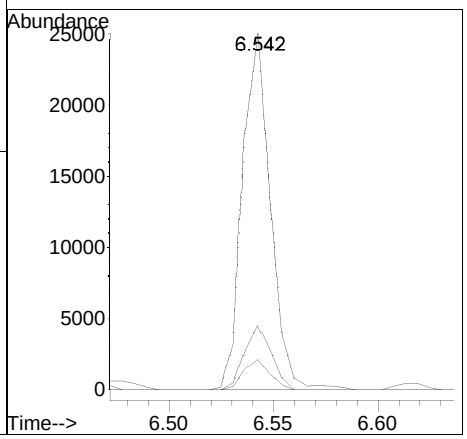


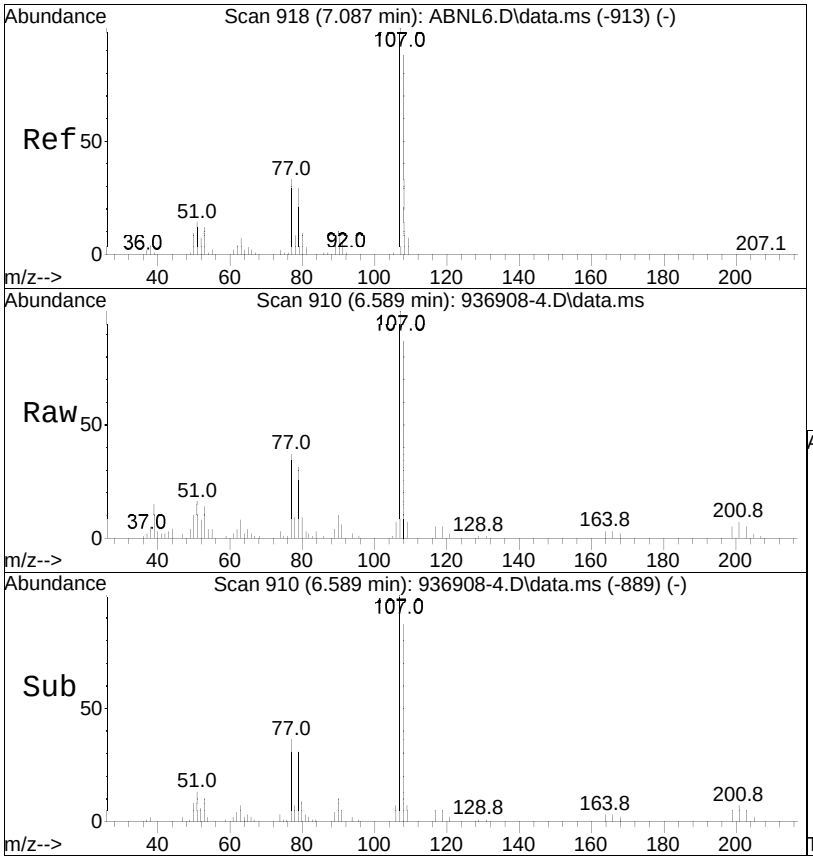


#17
n-Nitrosodi-n-propylamine
Concen: 1.55 ug/ml
RT: 6.542 min Scan# 902
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 70 Resp: 23231

Ion	Ratio	Lower	Upper
70	100		
130	17.5	18.2	27.4#
101	8.1	7.8	11.8

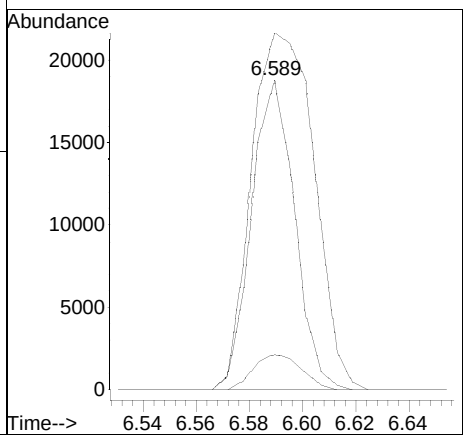


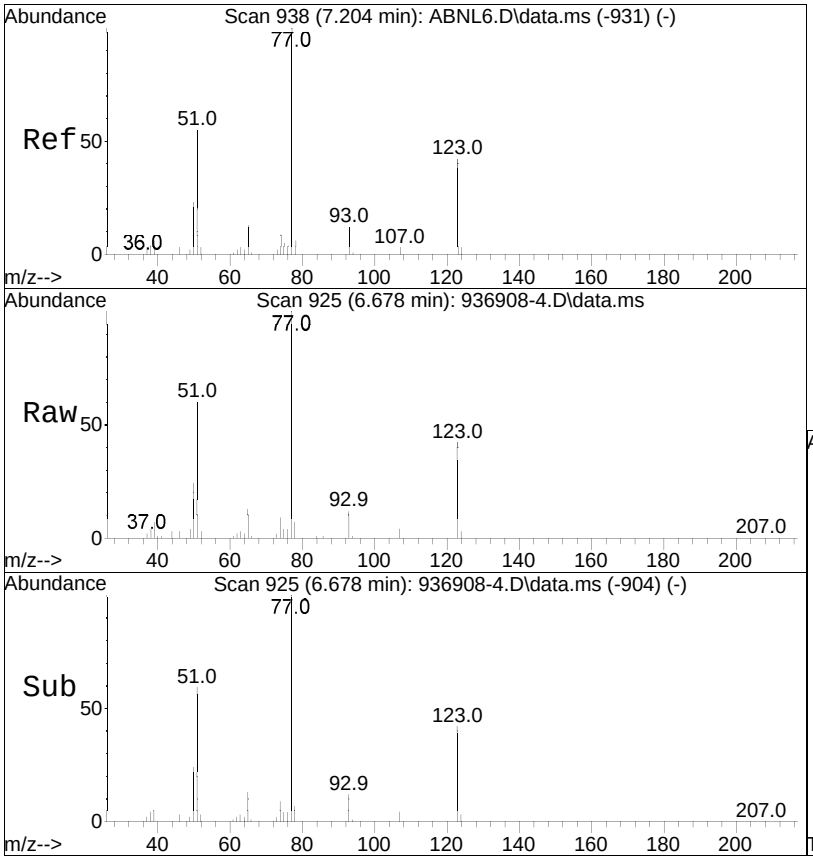


#18
3-Methylphenol/4-Methylphenol
Concen: 1.14 ug/ml
RT: 6.589 min Scan# 910
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:108 Resp: 21182

Ion	Ratio	Lower	Upper
108	100		
107	167.3	88.6	132.8#
90	12.7	8.8	13.2

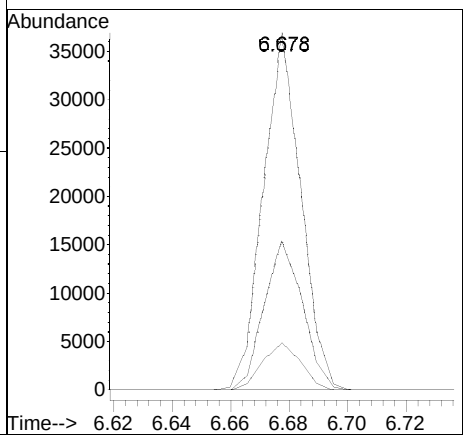


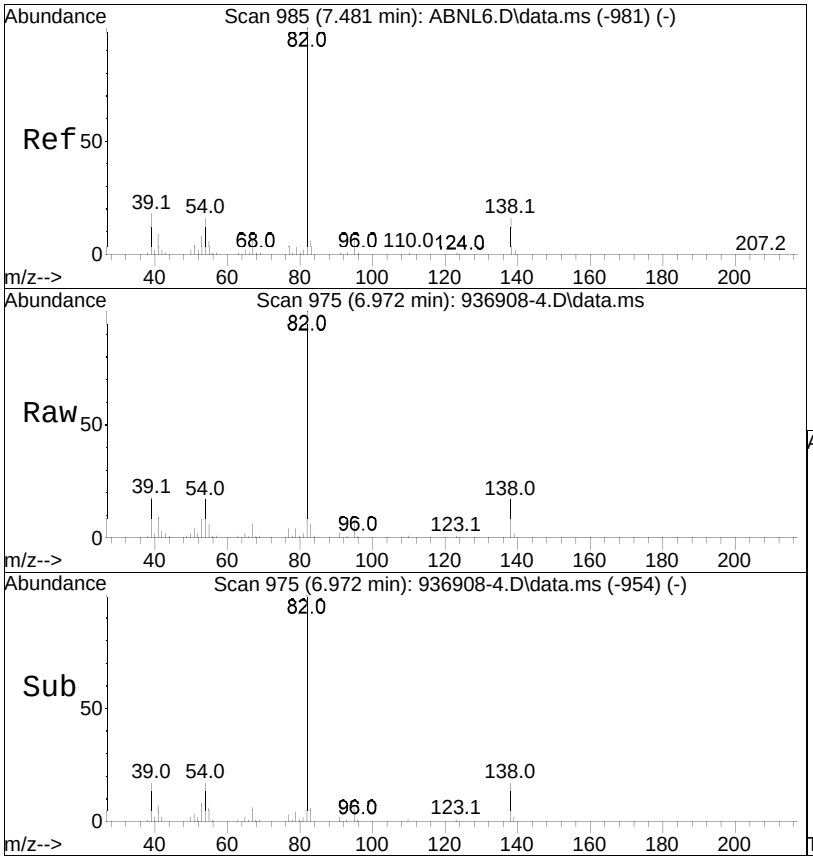


#20
Nitrobenzene
Concen: 1.60 ug/ml
RT: 6.678 min Scan# 925
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 77 Resp: 32760

Ion	Ratio	Lower	Upper
77	100		
123	42.7	36.3	54.5
65	13.6	11.6	17.4

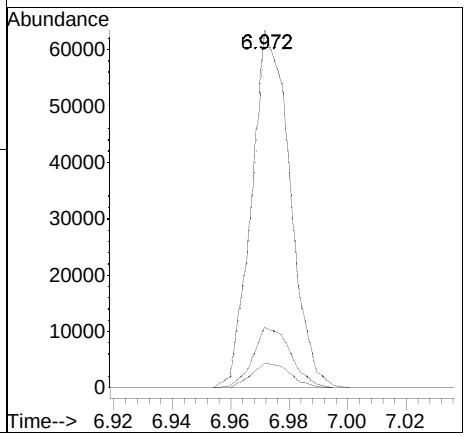


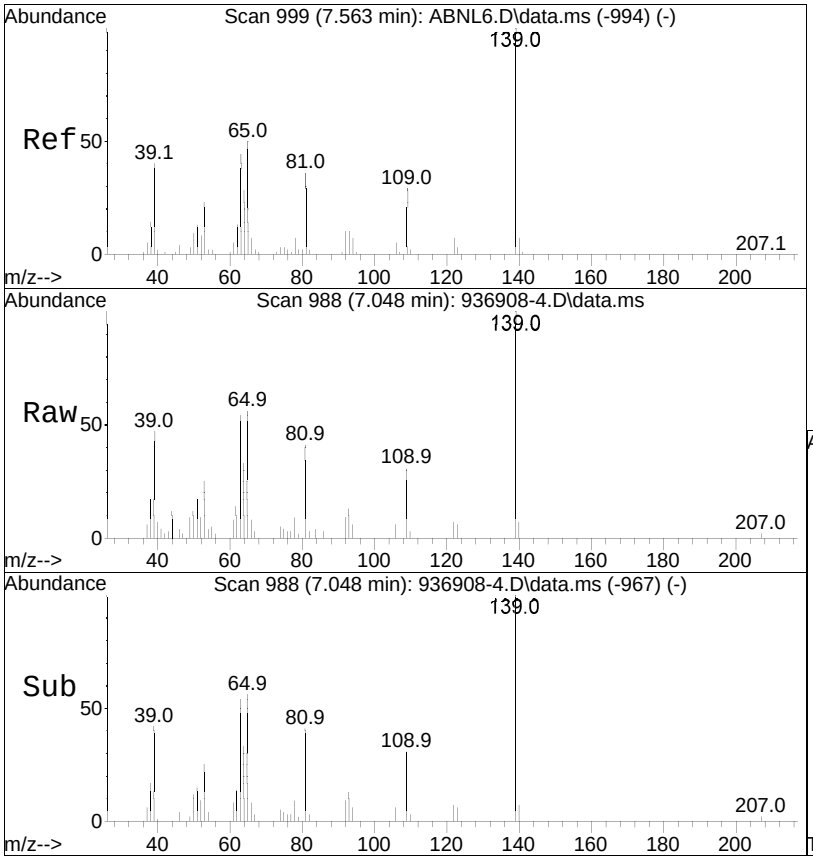


#21
Isophorone
Concen: 1.45 ug/ml
RT: 6.972 min Scan# 975
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 82 Resp: 57168

Ion	Ratio	Lower	Upper
82	100		
138	16.8	14.7	22.1
95	7.1	5.2	7.8

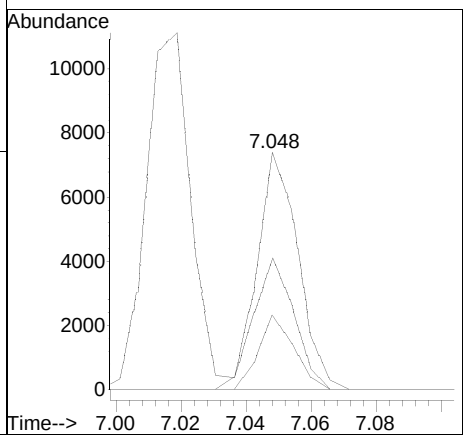


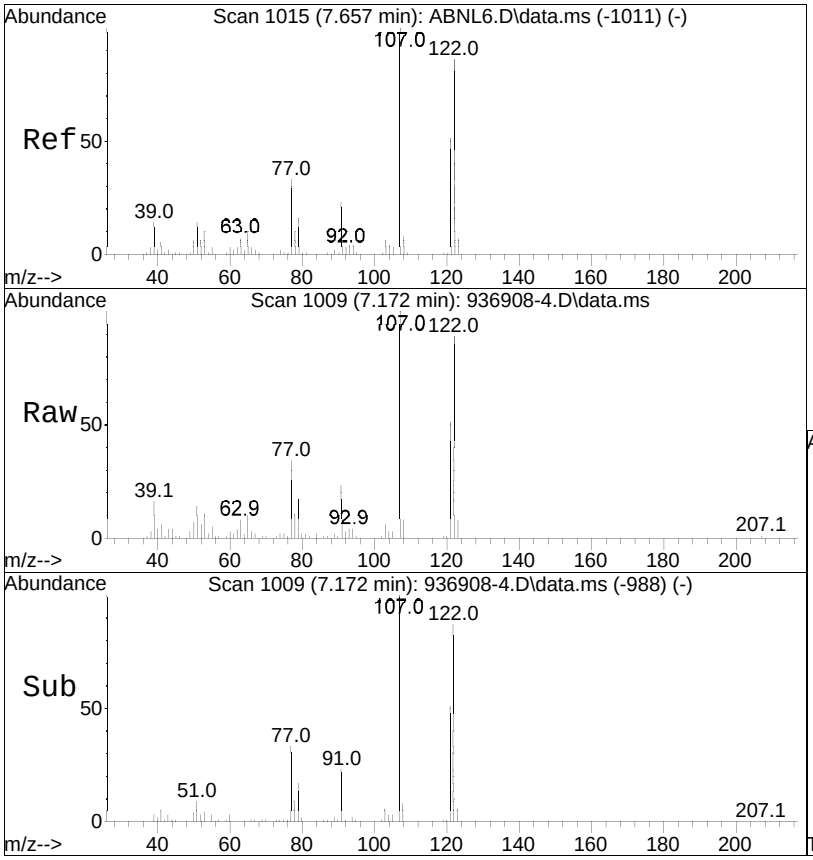


#22
2-Nitrophenol
Concen: 0.71 ug/ml
RT: 7.048 min Scan# 988
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:139 Resp: 6488

Ion	Ratio	Lower	Upper
139	100		
109	27.0	19.4	29.0
65	52.7	46.1	69.1

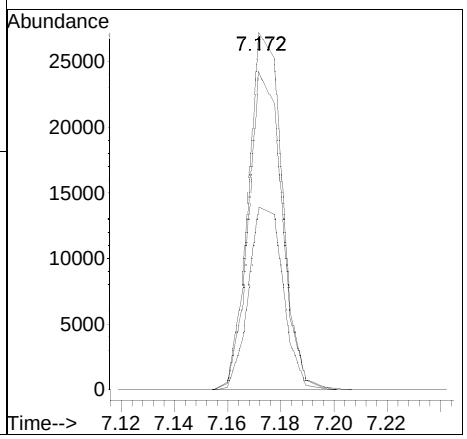


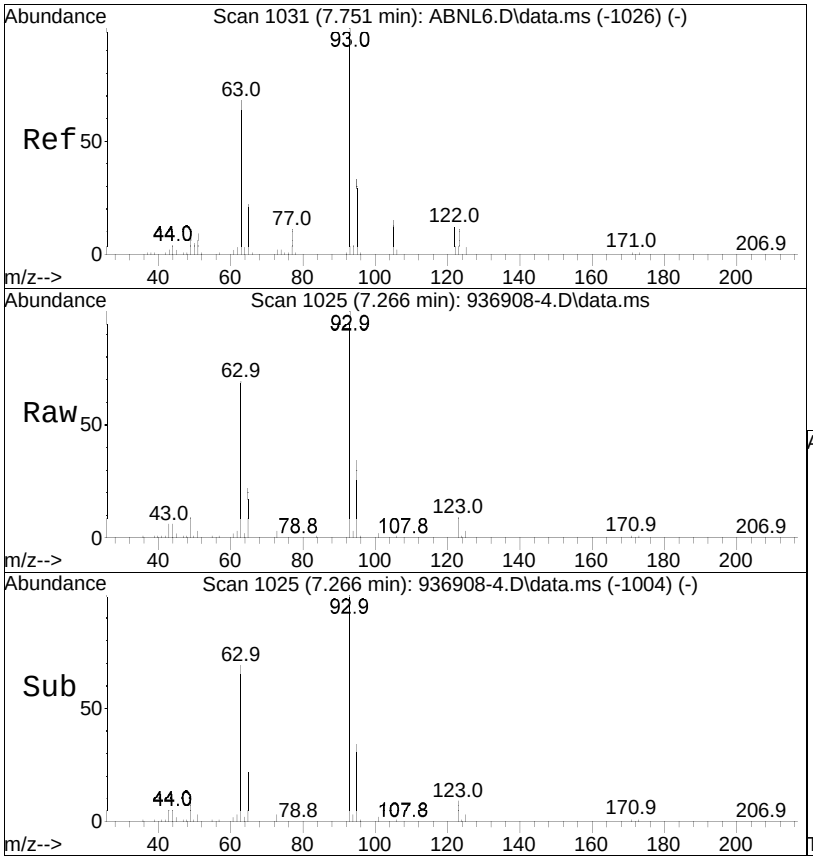


#23
2,4-Dimethylphenol
Concen: 1.29 ug/ml
RT: 7.172 min Scan# 1009
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:107 Resp: 24023

Ion	Ratio	Lower	Upper
107	100		
121	52.3	40.0	60.0
122	87.7	70.2	105.4

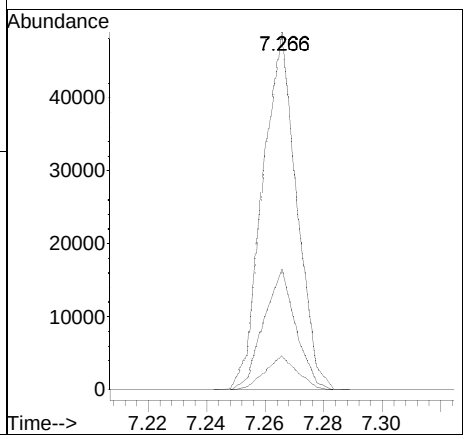


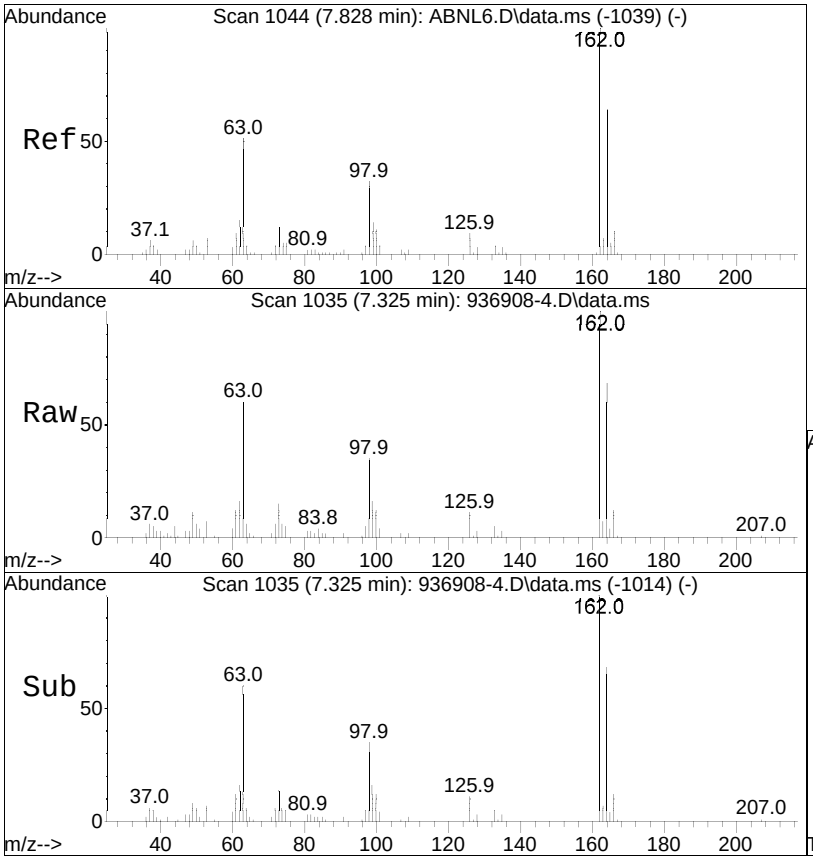


#24
Bis(2-chloroethoxy)methane
Concen: 1.52 ug/ml
RT: 7.266 min Scan# 1025
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 93 Resp: 39165

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	9.2	10.1	15.1#

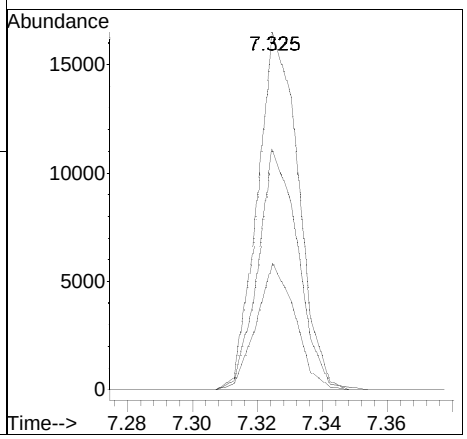


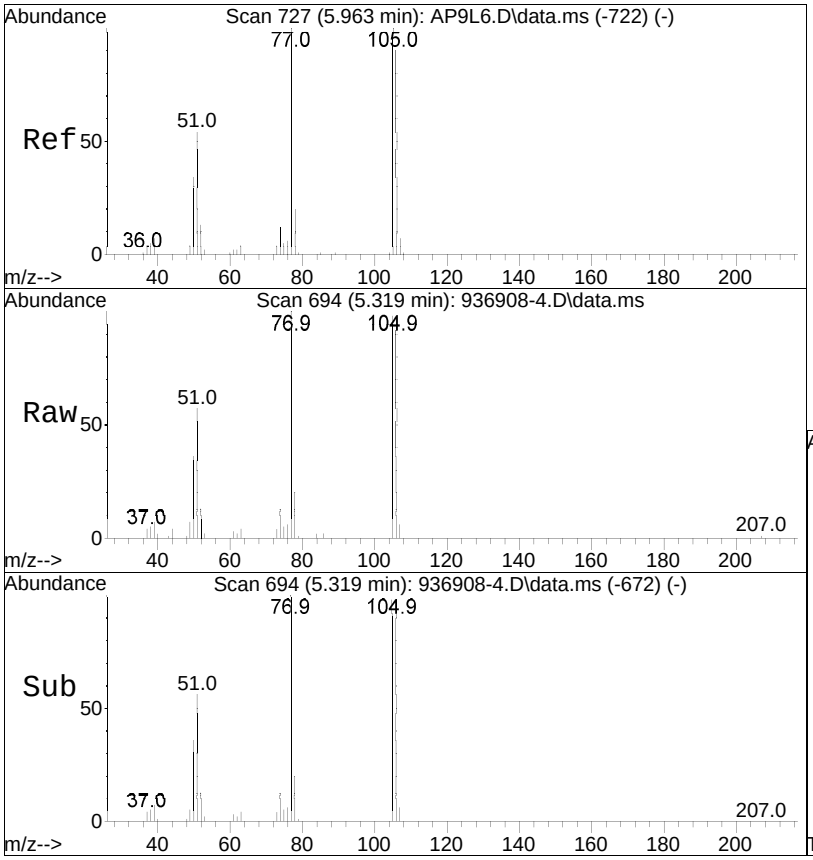


#25
2,4-Dichlorophenol
Concen: 0.77 ug/ml
RT: 7.325 min Scan# 1035
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:162 Resp: 14322

Ion	Ratio	Lower	Upper
162	100		
164	65.9	51.0	76.4
98	33.8	32.2	48.2

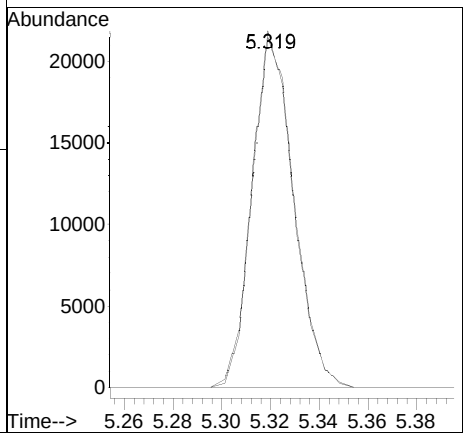


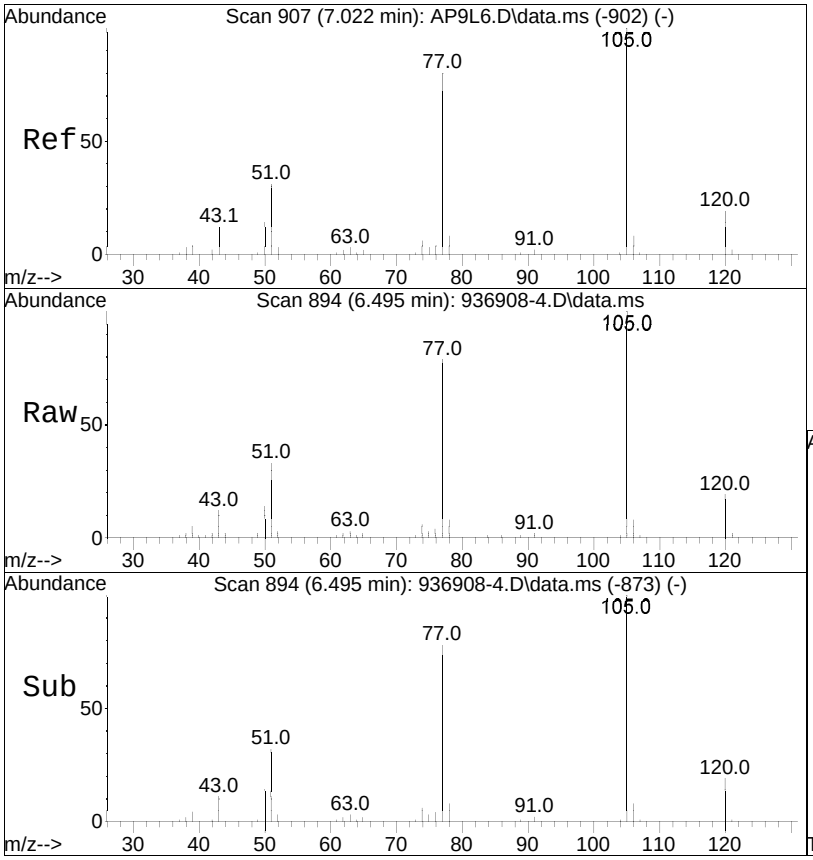


#28
Benzaldehyde
Concen: 1.46 ug/ml
RT: 5.319 min Scan# 694
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:105 Resp: 25501

Ion	Ratio	Lower	Upper
105	100		
77	100.6	82.2	123.4

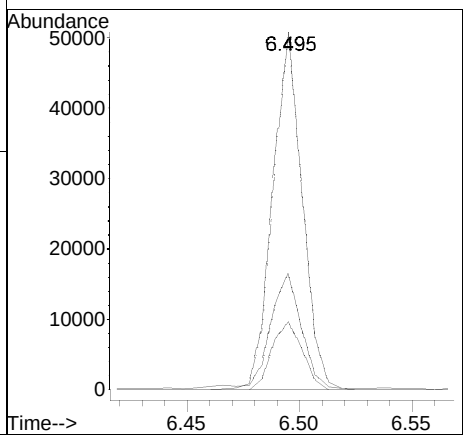


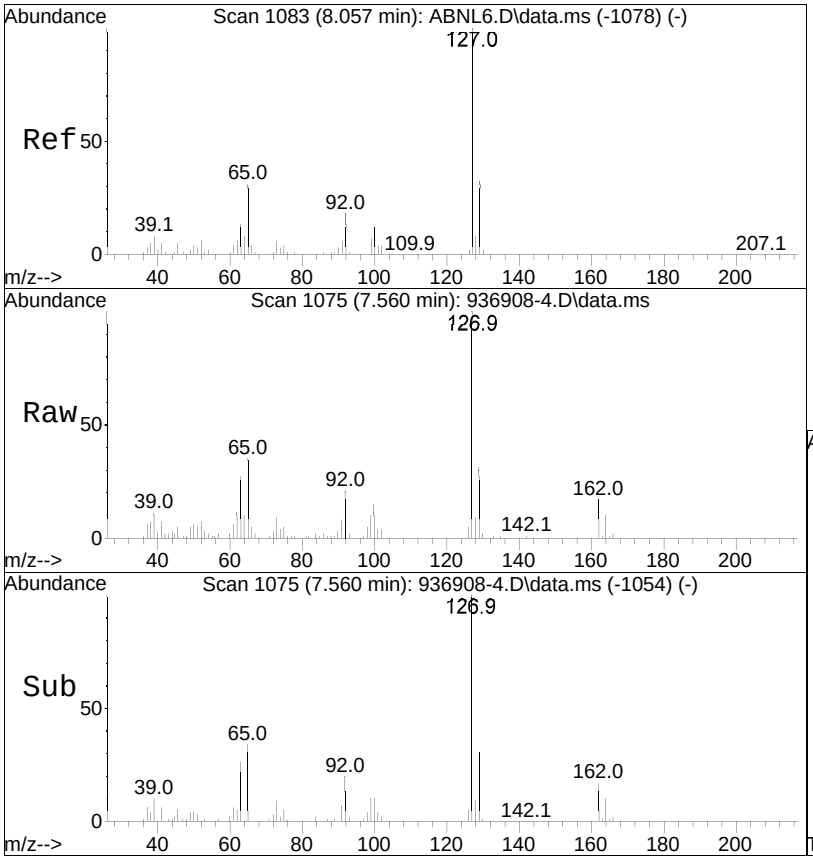


#29
Acetophenone
Concen: 1.52 ug/ml
RT: 6.495 min Scan# 894
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:105 Resp: 45840

Ion	Ratio	Lower	Upper
105	100		
120	19.7	20.5	30.7#
51	34.3	34.9	52.3#

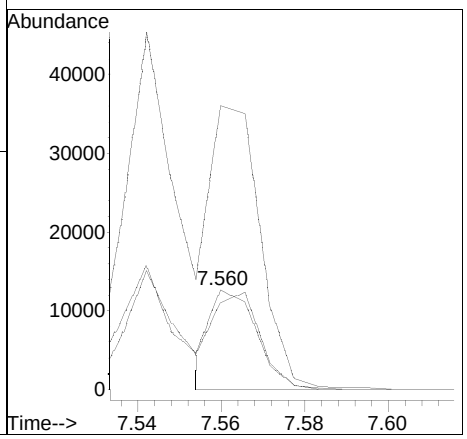


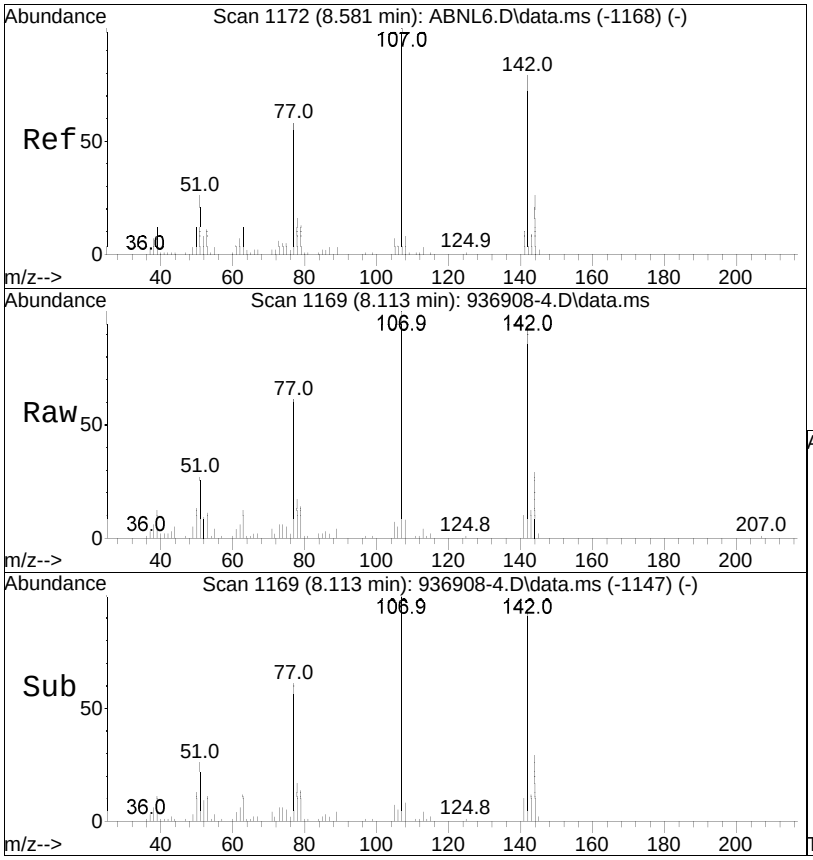


#37
4-Chloroaniline
Concen: 1.24 ug/ml
RT: 7.560 min Scan# 1075
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 65 Resp: 9728

Ion	Ratio	Lower	Upper
65	100		
127	304.4	237.6	356.4
129	99.2	76.3	114.5

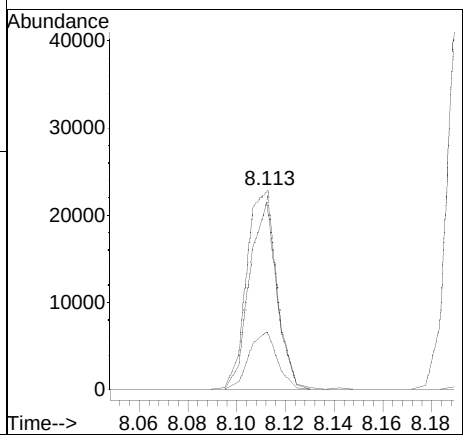


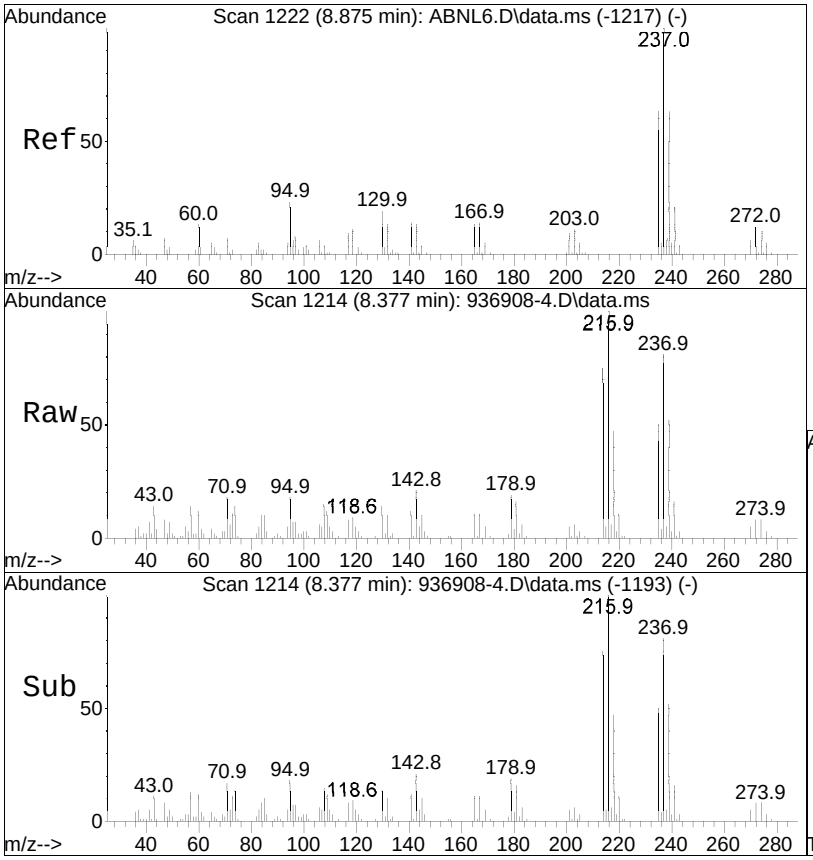


#39
p-Chloro-m-cresol
Concen: 1.15 ug/ml
RT: 8.113 min Scan# 1169
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:107 Resp: 19659

Ion	Ratio	Lower	Upper
107	100		
144	27.0	20.9	31.3
142	85.1	66.1	99.1

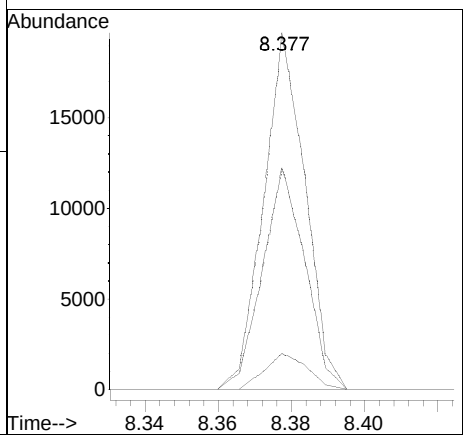


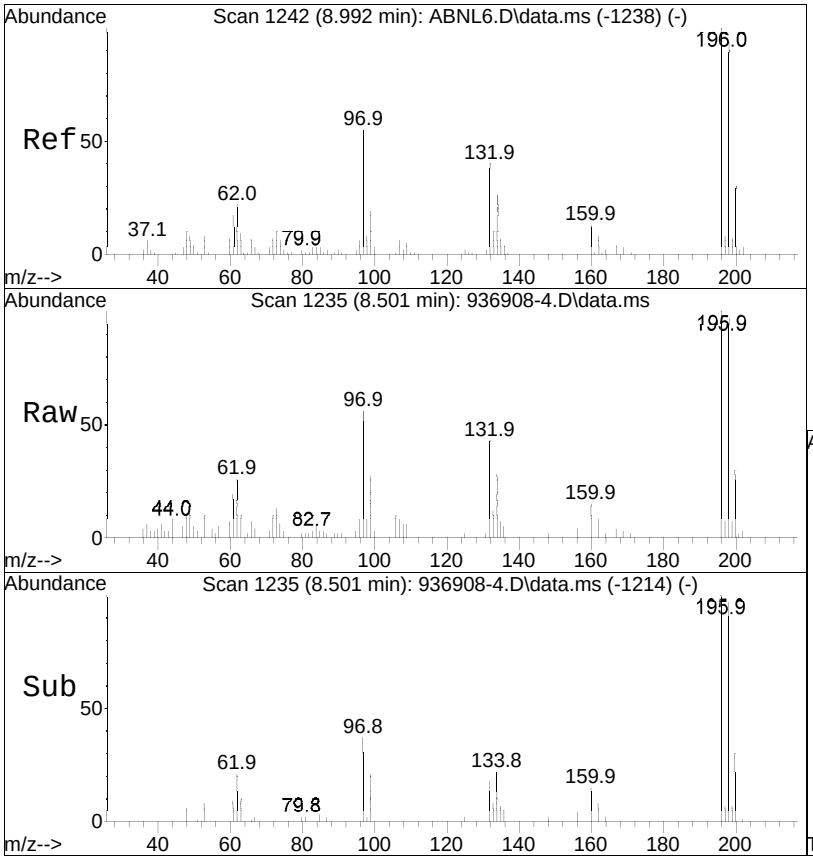


#42
Hexachlorocyclopentadiene
Concen: 1.20 ug/ml
RT: 8.377 min Scan# 1214
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:237 Resp: 15450

Ion	Ratio	Lower	Upper
237	100		
235	63.8	49.7	74.5
272	10.5	9.8	14.6

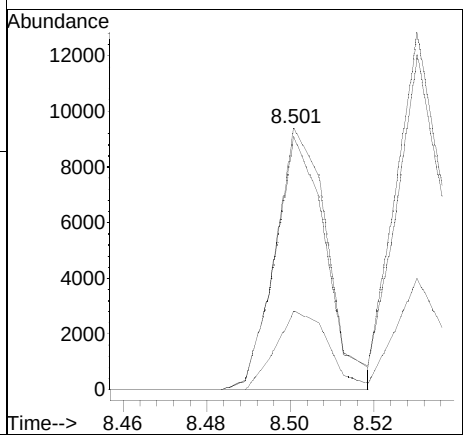


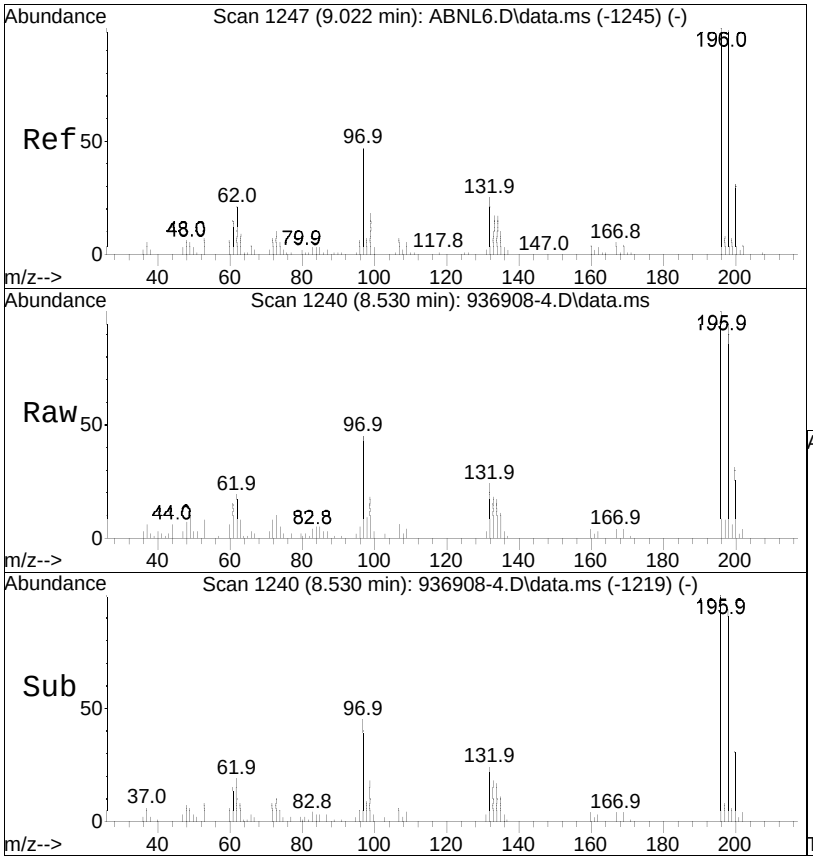


#43
2,4,6-Trichlorophenol
Concen: 0.55 ug/ml
RT: 8.501 min Scan# 1235
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:196 Resp: 8154

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.5	116.3
200	30.7	23.8	35.6

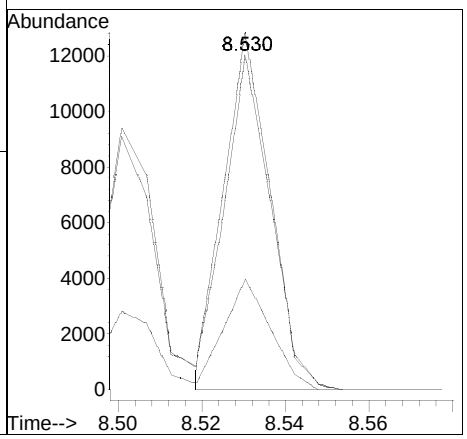


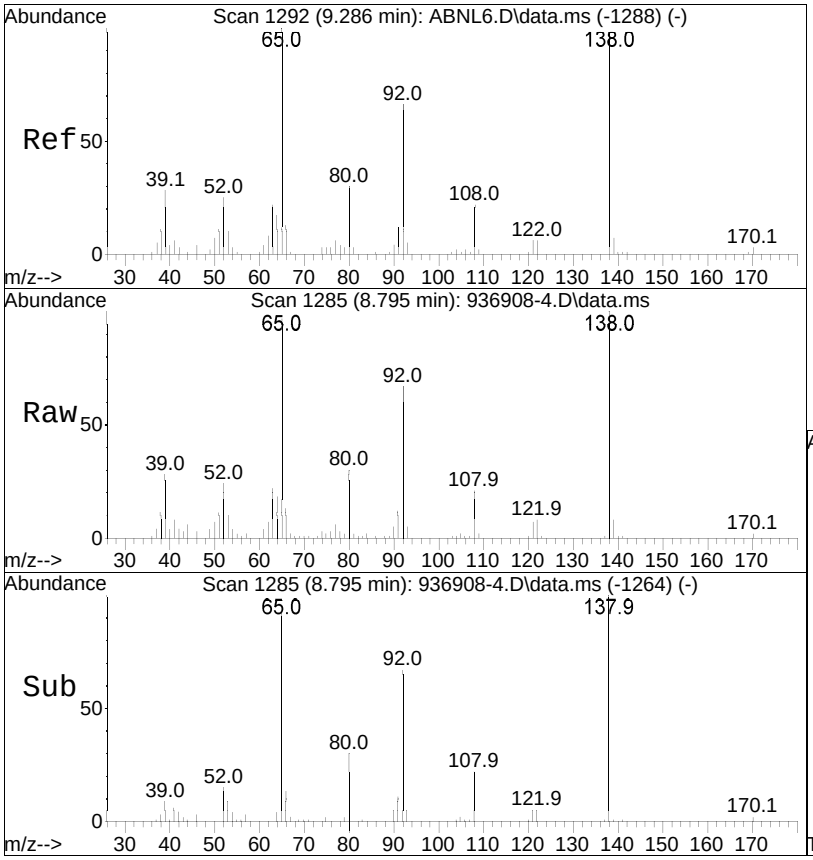


#44
2,4,5-Trichlorophenol
Concen: 0.63 ug/ml
RT: 8.530 min Scan# 1240
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:196 Resp: 9869

Ion	Ratio	Lower	Upper
196	100		
200	31.2	25.4	38.0
198	93.1	78.0	117.0

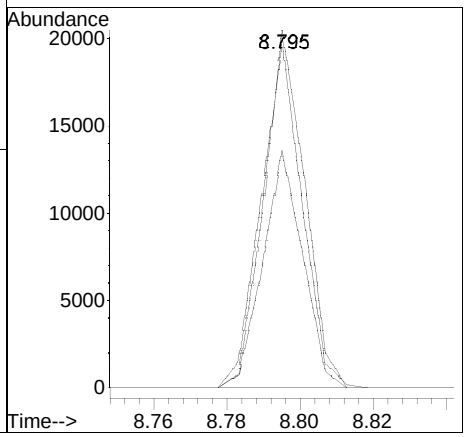


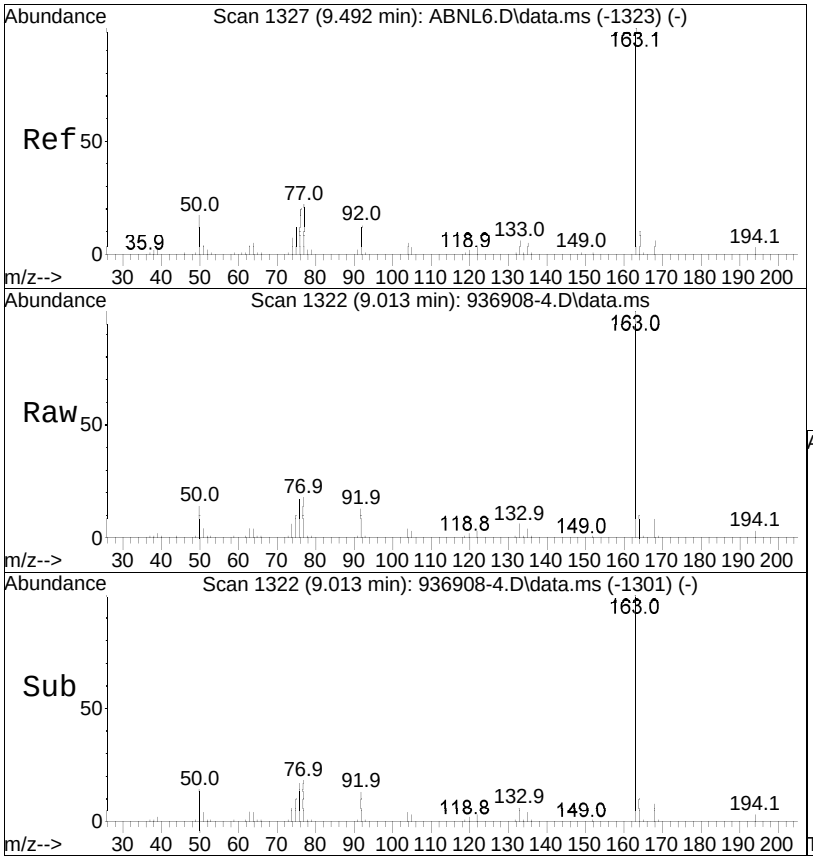


#47
2-Nitroaniline
Concen: 1.45 ug/ml
RT: 8.795 min Scan# 1285
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:138 Resp: 15691

Ion	Ratio	Lower	Upper
138	100		
92	65.1	53.5	80.3
65	96.6	86.3	129.5

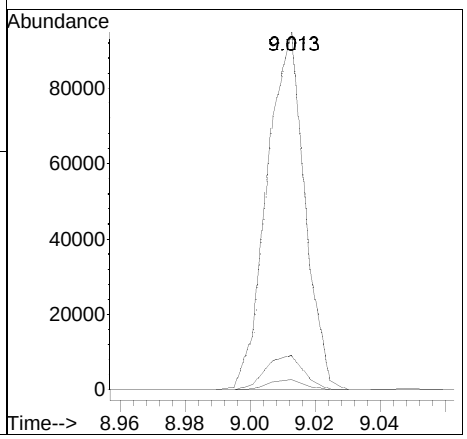


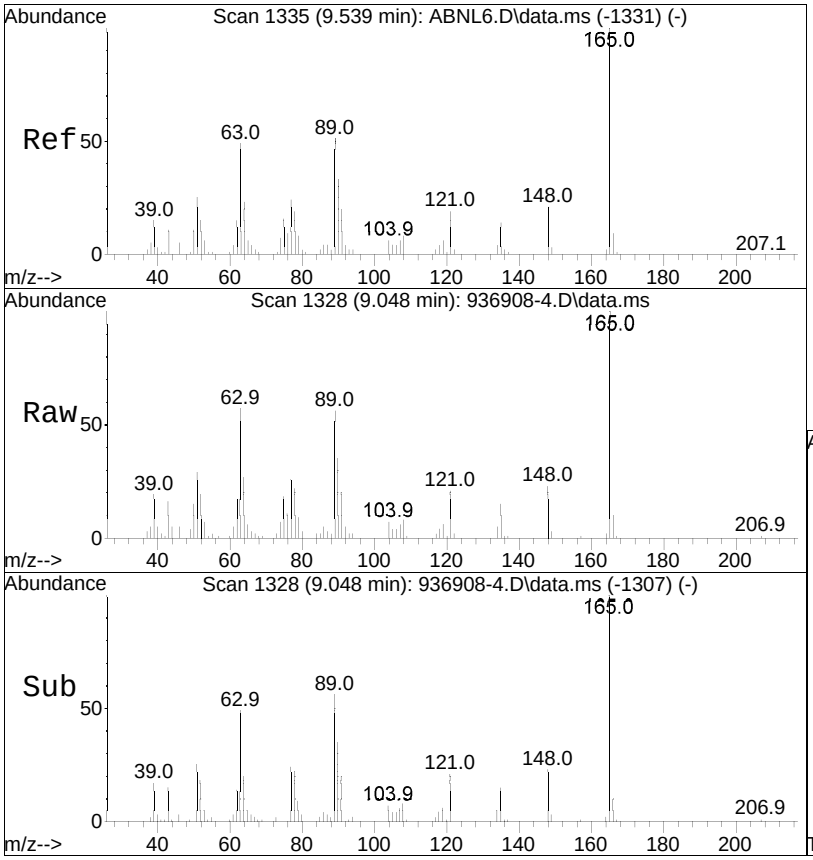


#50
Dimethyl phthalate
Concen: 1.45 ug/ml
RT: 9.013 min Scan# 1322
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:163 Resp: 75904

Ion	Ratio	Lower	Upper
163	100		
194	2.9	3.5	5.3#
164	10.0	7.9	11.9

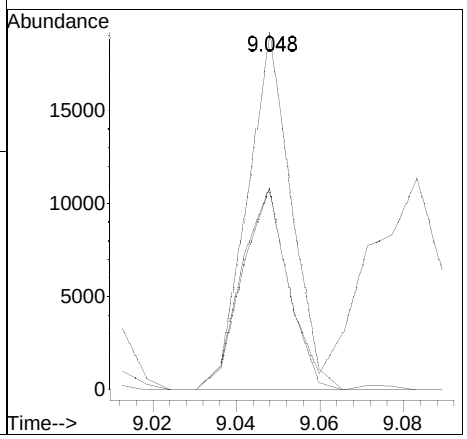


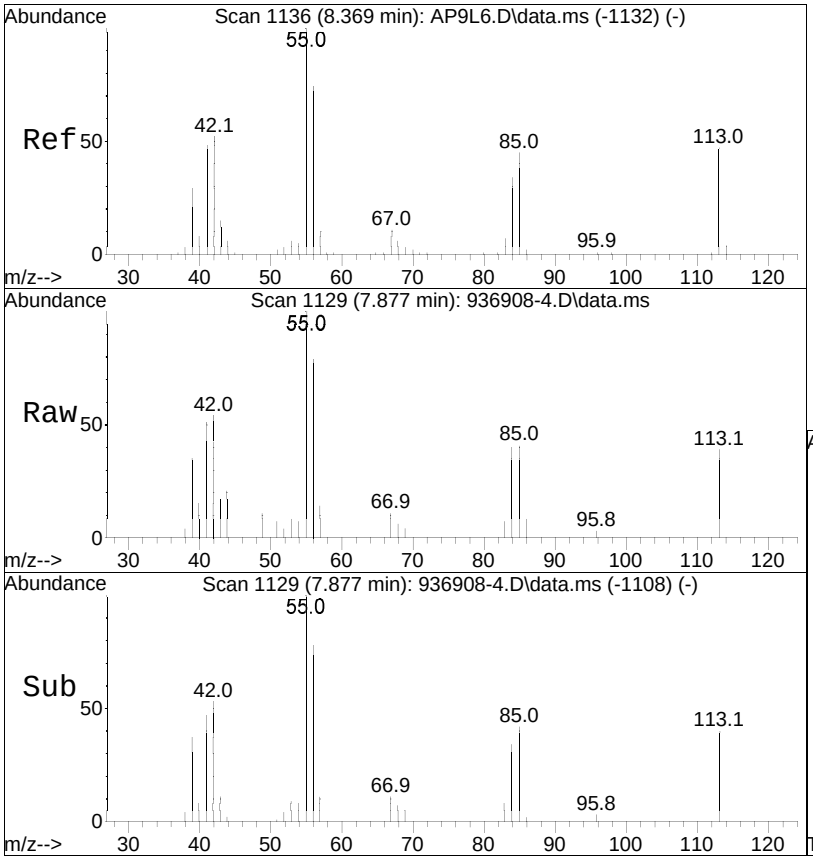


#52
2,6-Dinitrotoluene
Concen: 1.47 ug/ml
RT: 9.048 min Scan# 1328
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:165 Resp: 14056

Ion	Ratio	Lower	Upper
165	100		
89	58.7	54.2	81.2
63	61.2	64.2	96.2#

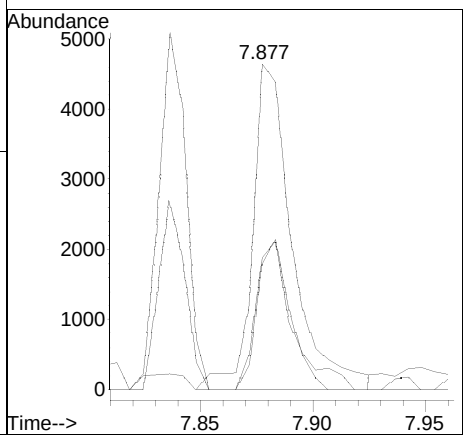


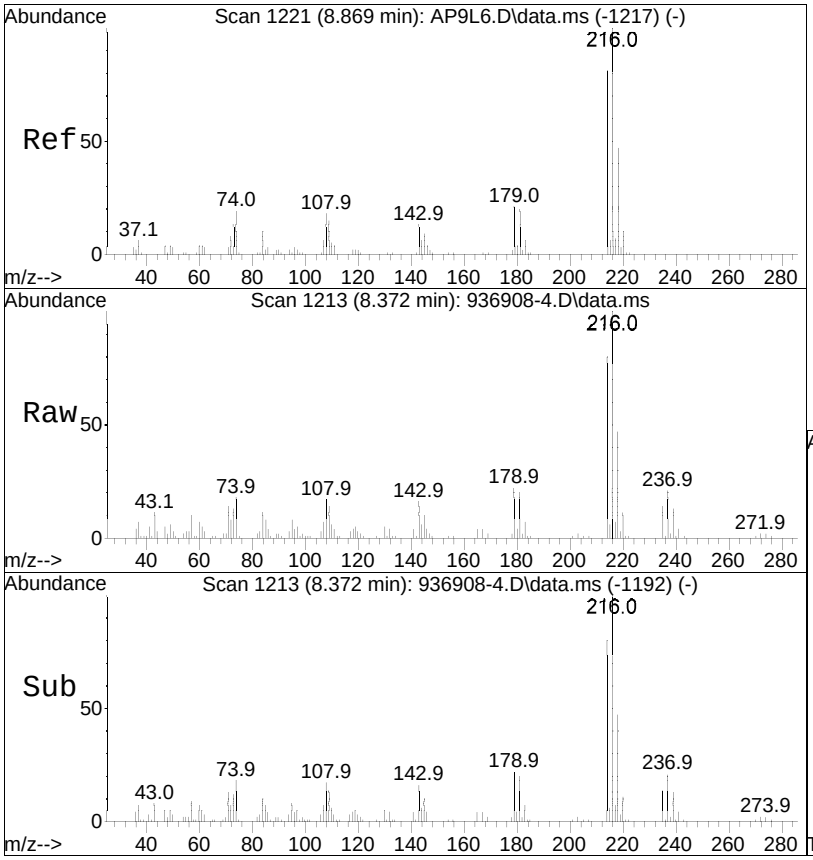


#59
Caprolactam
Concen: 0.62 ug/ml
RT: 7.877 min Scan# 1129
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 55 Resp: 5735

Ion	Ratio	Lower	Upper
55	100		
85	41.9	19.8	29.6#
113	37.7	29.6	44.4

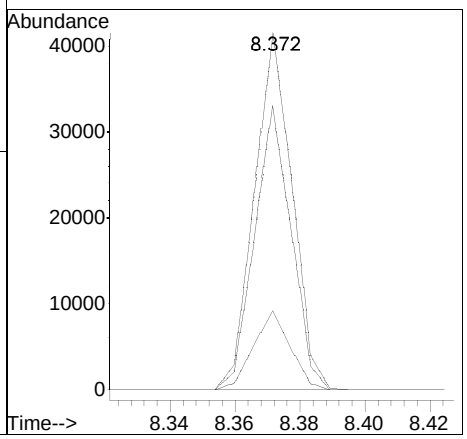


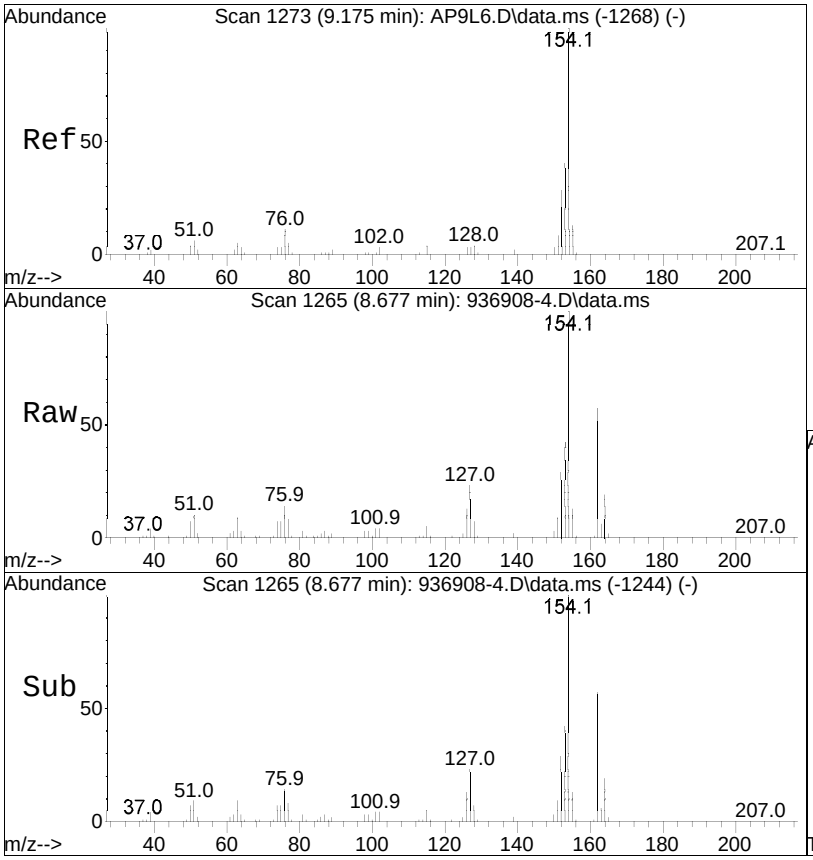


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.33 ug/ml
RT: 8.372 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:216 Resp: 33342

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	21.6	19.0	28.6

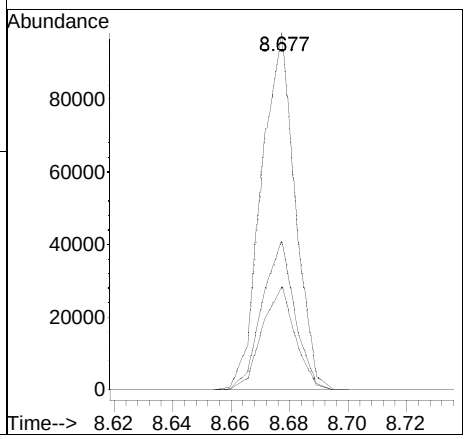


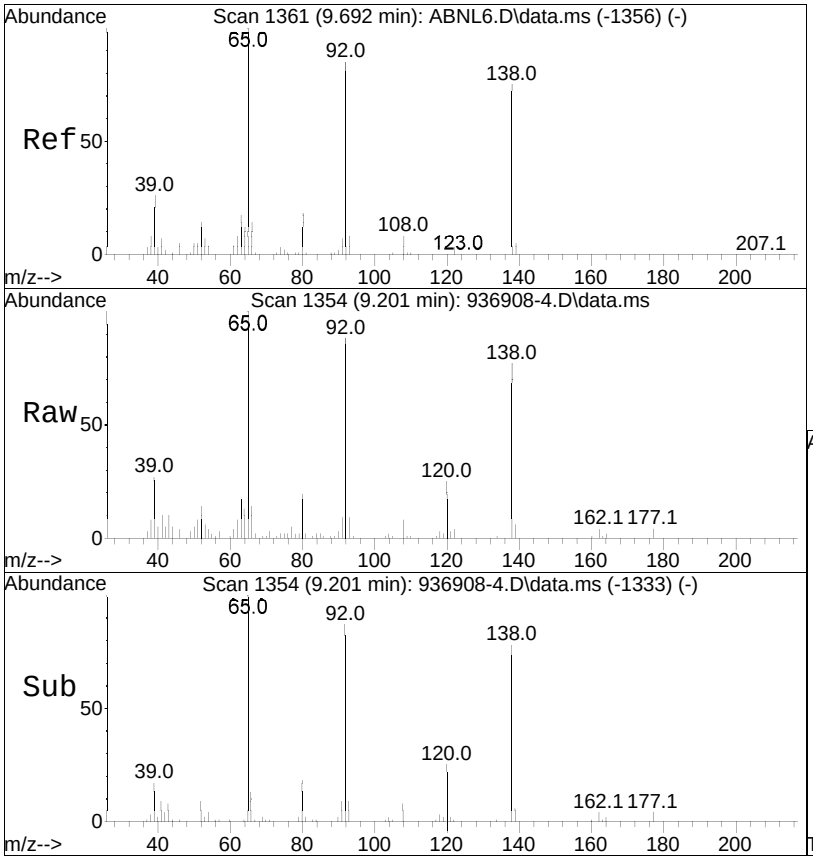


#61
Biphenyl
Concen: 1.35 ug/ml
RT: 8.677 min Scan# 1265
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:154 Resp: 78157

Ion	Ratio	Lower	Upper
154	100		
153	40.6	32.3	48.5
152	28.6	22.5	33.7

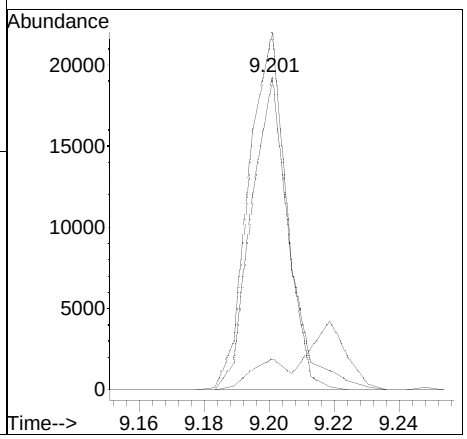


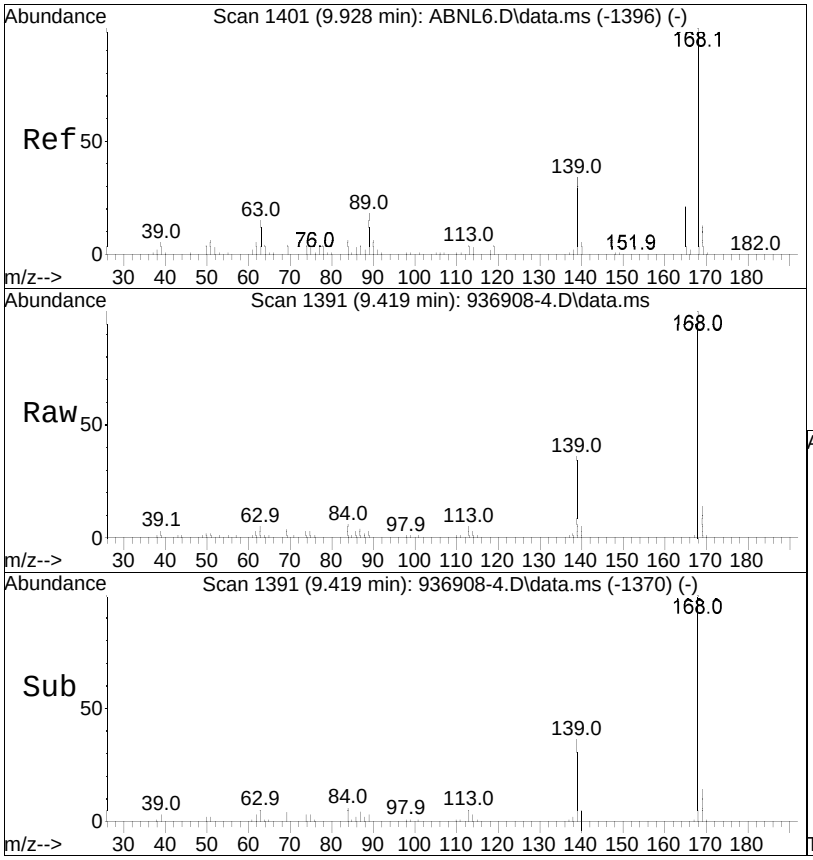


#63
3-Nitroaniline
Concen: 1.45 ug/ml
RT: 9.201 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:138 Resp: 14733

Ion	Ratio	Lower	Upper
138	100		
92	125.7	93.4	140.2
108	32.3	9.5	14.3#

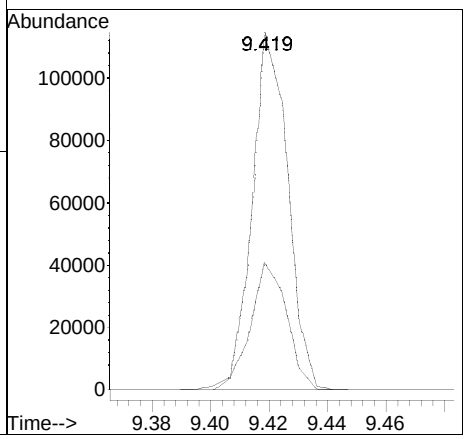


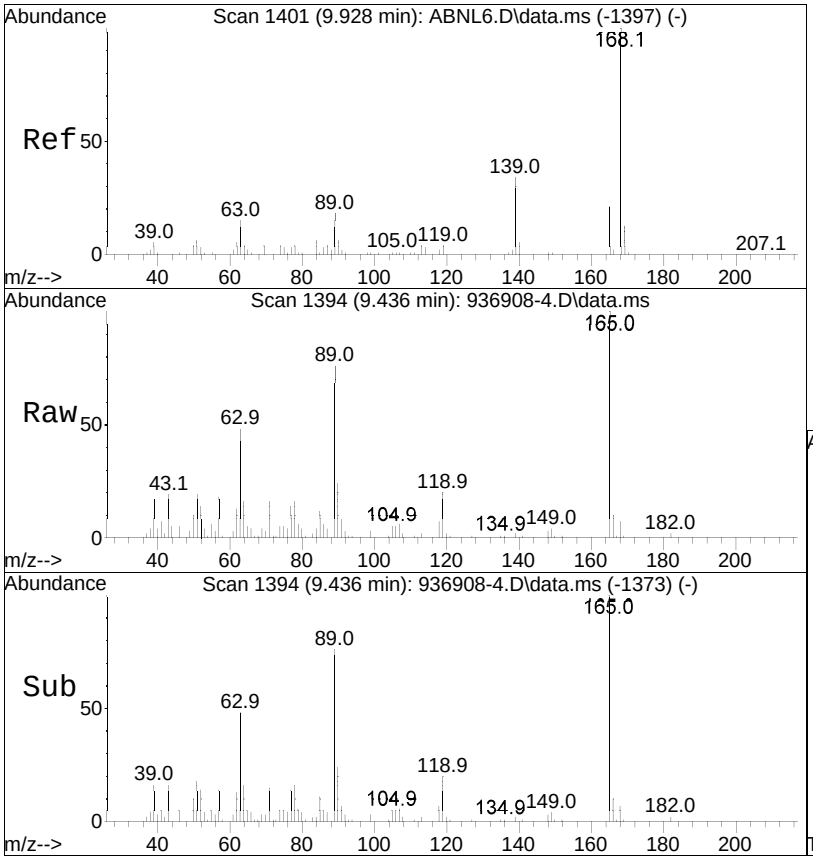


#66
Dibenzofuran
Concen: 1.39 ug/ml
RT: 9.419 min Scan# 1391
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:168 Resp: 95569

Ion	Ratio	Lower	Upper
168	100		
139	37.3	31.4	47.2

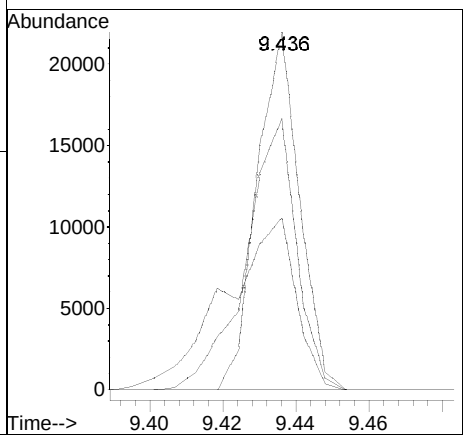


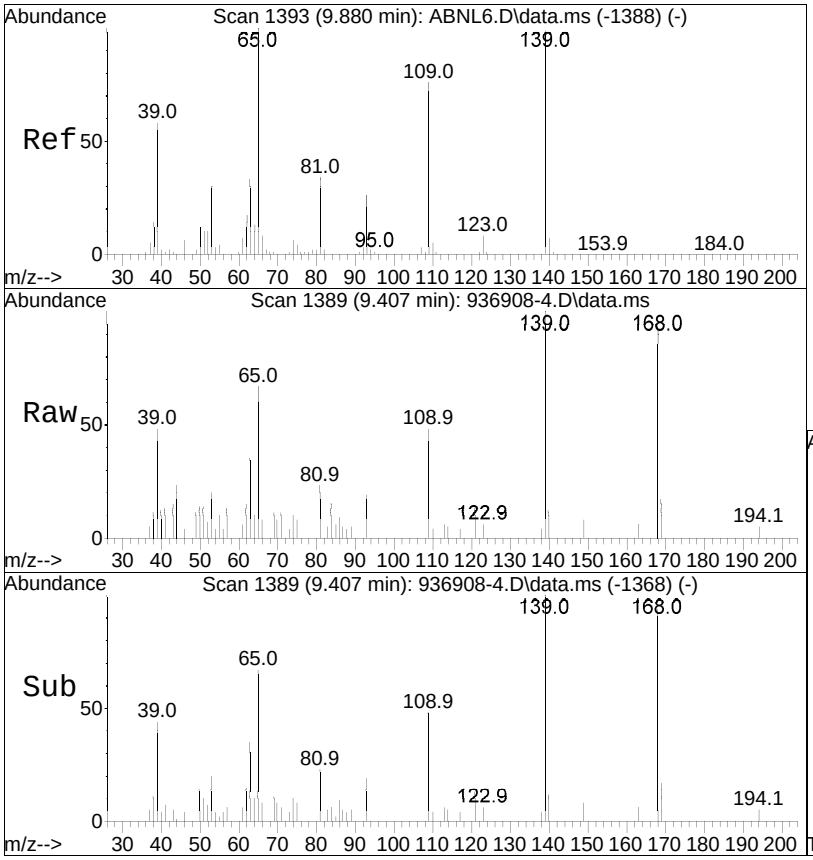


#67
2,4-Dinitrotoluene
Concen: 1.45 ug/ml
RT: 9.436 min Scan# 1394
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:165 Resp: 17637

Ion	Ratio	Lower	Upper
165	100		
89	90.3	72.0	108.0
63	80.7	52.7	79.1#

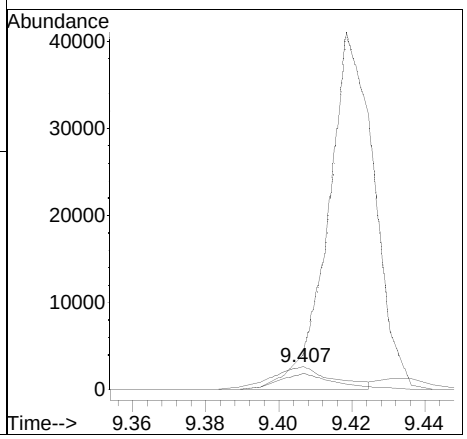


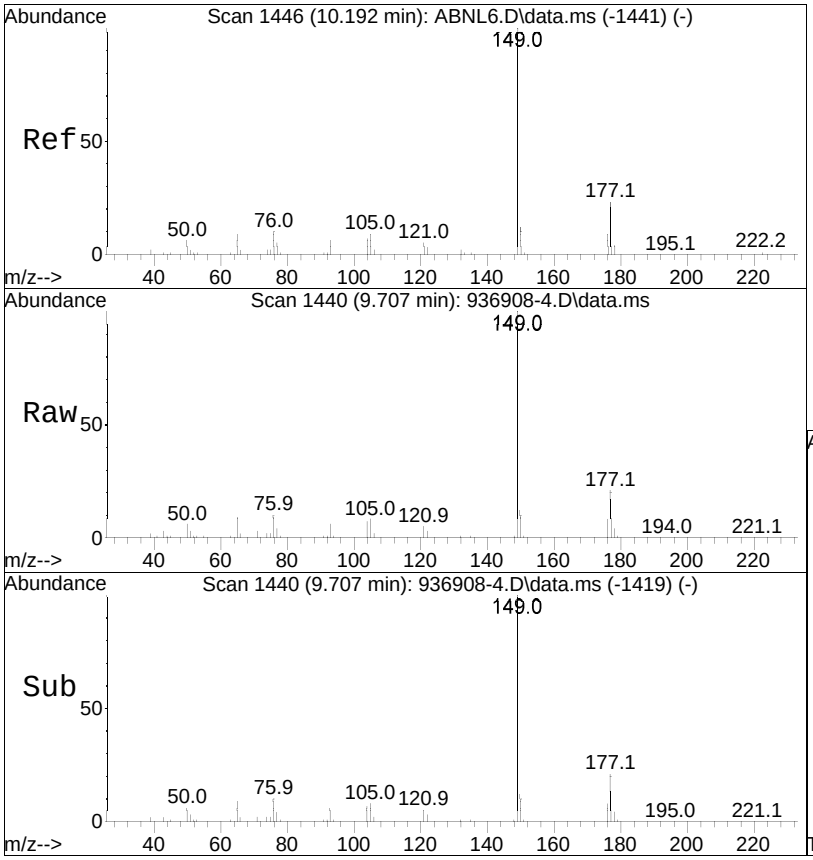


#68
4-Nitrophenol
Concen: 0.36 ug/ml
RT: 9.407 min Scan# 1389
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion: 65 Resp: 3103

Ion	Ratio	Lower	Upper
65	100		
109	60.9	47.4	71.2
139	1150.3	76.6	115.0#

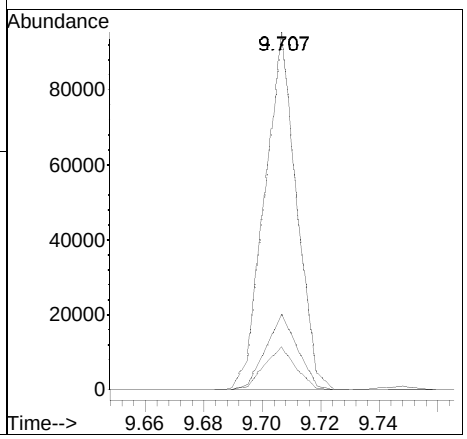


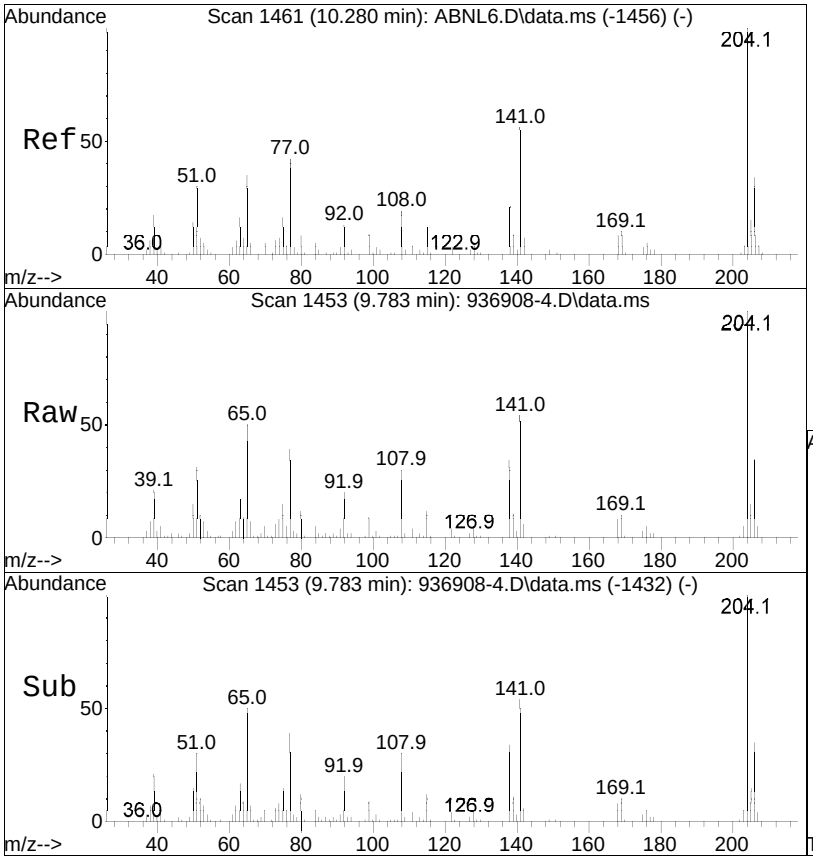


#71
Diethyl phthalate
Concen: 1.40 ug/ml
RT: 9.707 min Scan# 1440
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:149 Resp: 71450

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.1	24.1
150	12.2	9.4	14.2

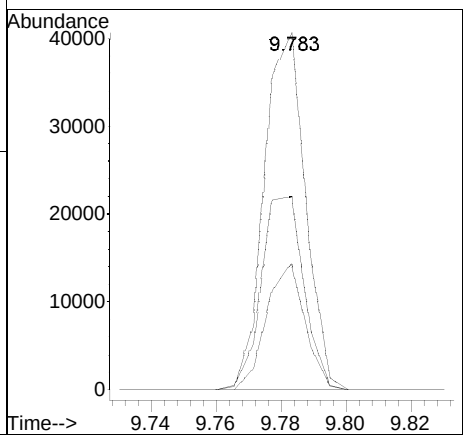


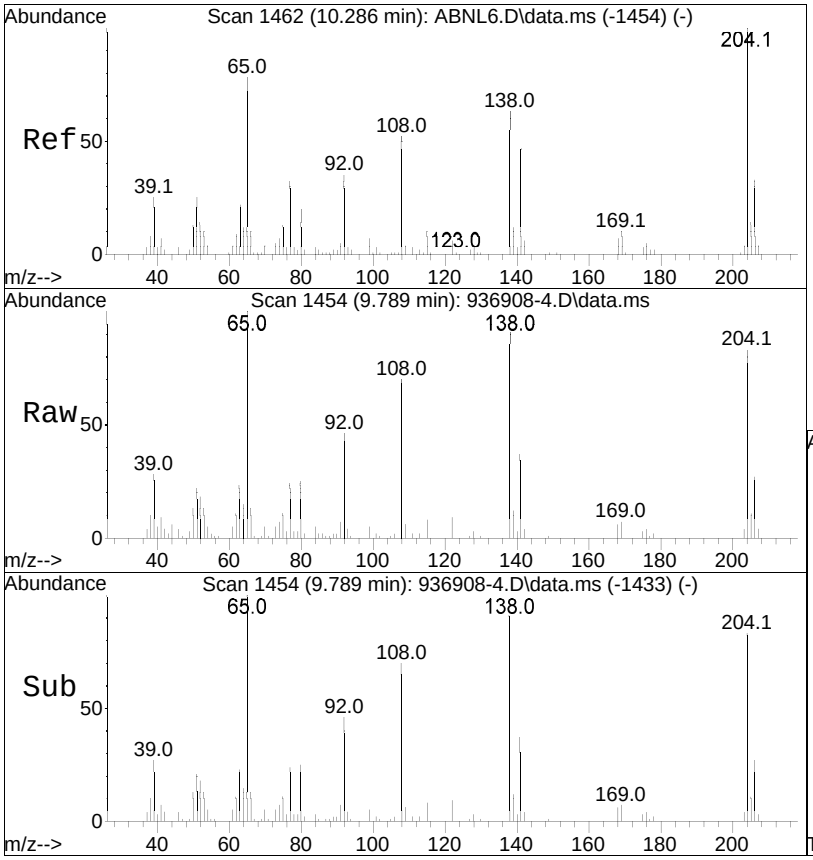


#73
4-Chlorophenyl phenyl ether
Concen: 1.35 ug/ml
RT: 9.783 min Scan# 1453
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:204 Resp: 35451

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	56.1	53.6	80.4

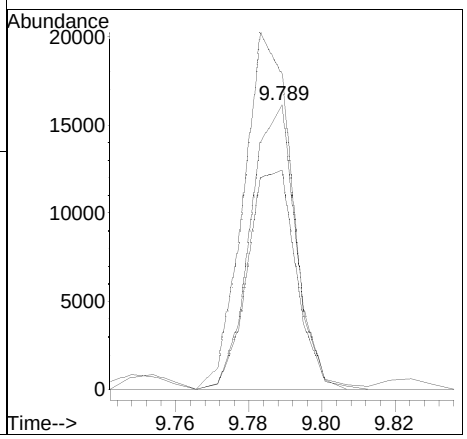


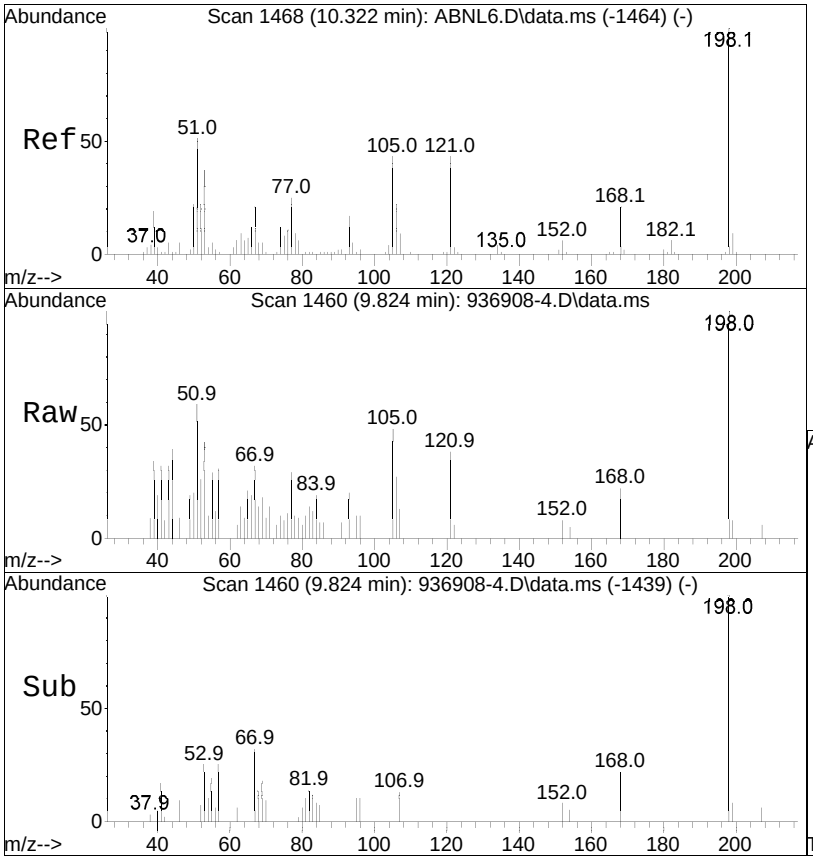


#74
4-Nitroaniline
Concen: 1.35 ug/ml
RT: 9.789 min Scan# 1454
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:138 Resp: 13846

Ion	Ratio	Lower	Upper
138	100		
108	82.9	52.1	78.1#
65	134.3	115.0	172.6

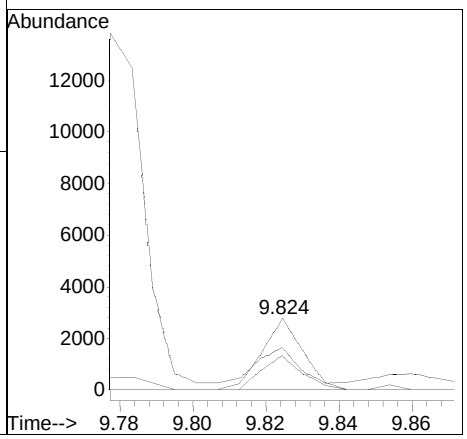


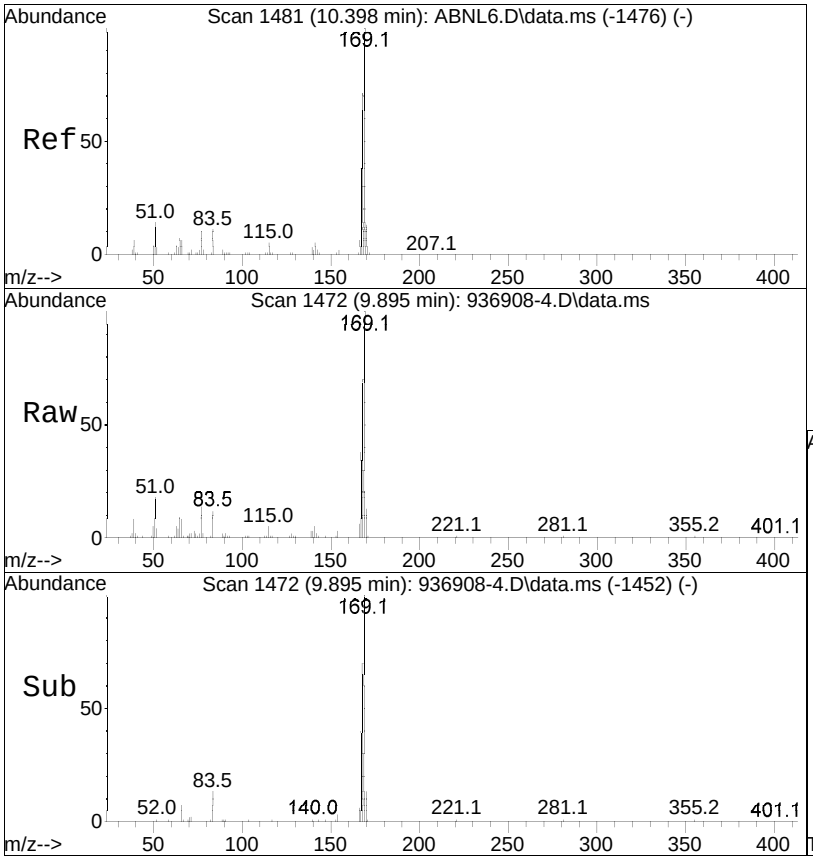


#75
4,6-Dinitro-o-cresol
Concen: 0.79 ug/ml
RT: 9.824 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:198 Resp: 2142

Ion	Ratio	Lower	Upper
198	100		
51	49.3	76.0	114.0#
105	46.6	45.6	68.4

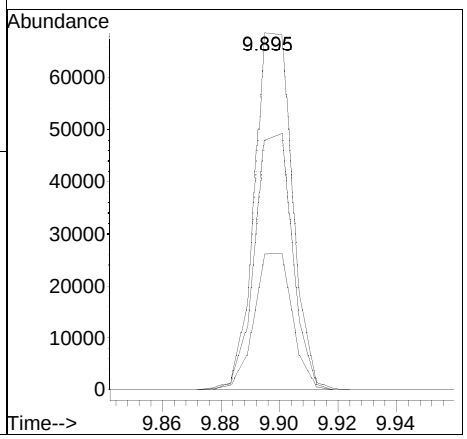


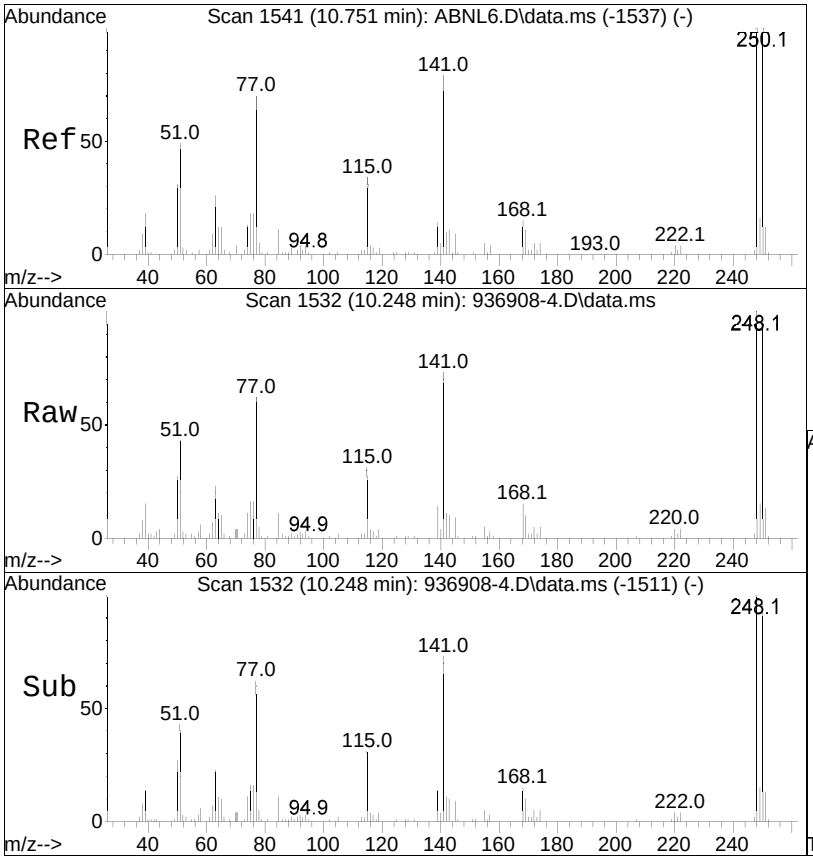


#76
NDPA/DPA
Concen: 1.39 ug/ml
RT: 9.895 min Scan# 1472
Delta R.T. -0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:169 Resp: 61773

Ion	Ratio	Lower	Upper
169	100		
168	71.8	54.0	81.0
167	38.6	28.6	42.8

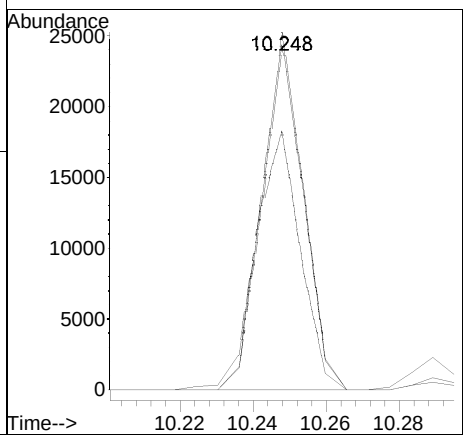


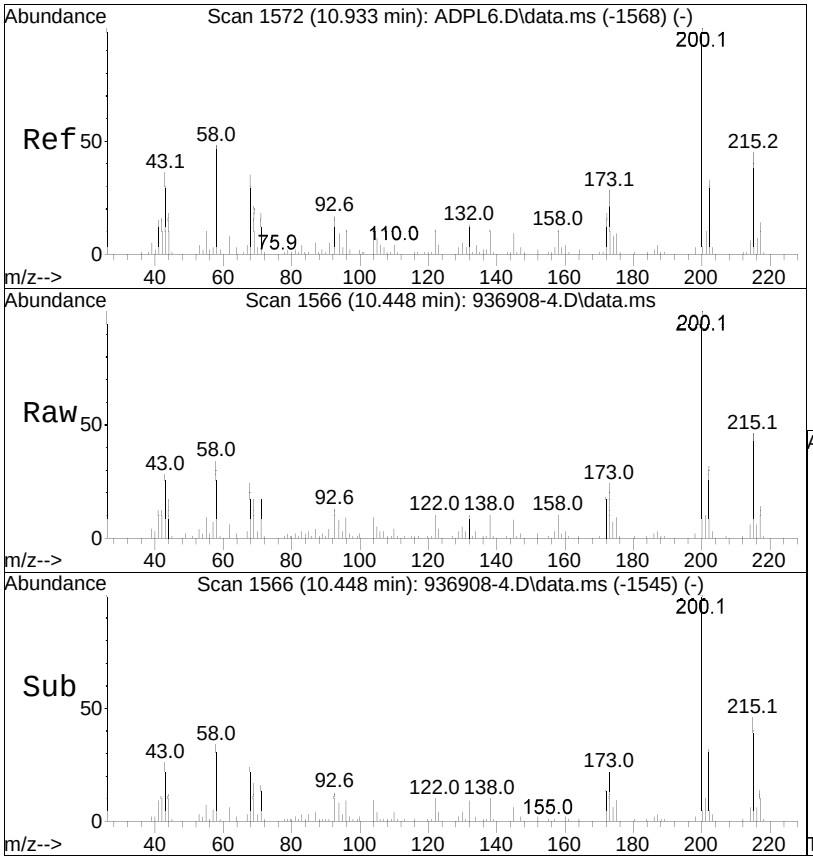


#79
4-Bromophenyl phenyl ether
Concen: 1.34 ug/ml
RT: 10.248 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:248 Resp: 19720

Ion	Ratio	Lower	Upper
248	100		
141	77.9	76.6	114.8
250	96.1	77.3	115.9

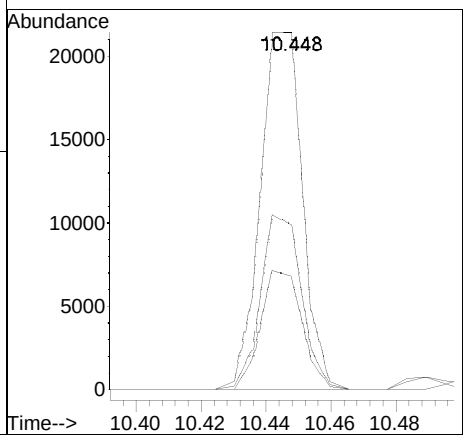


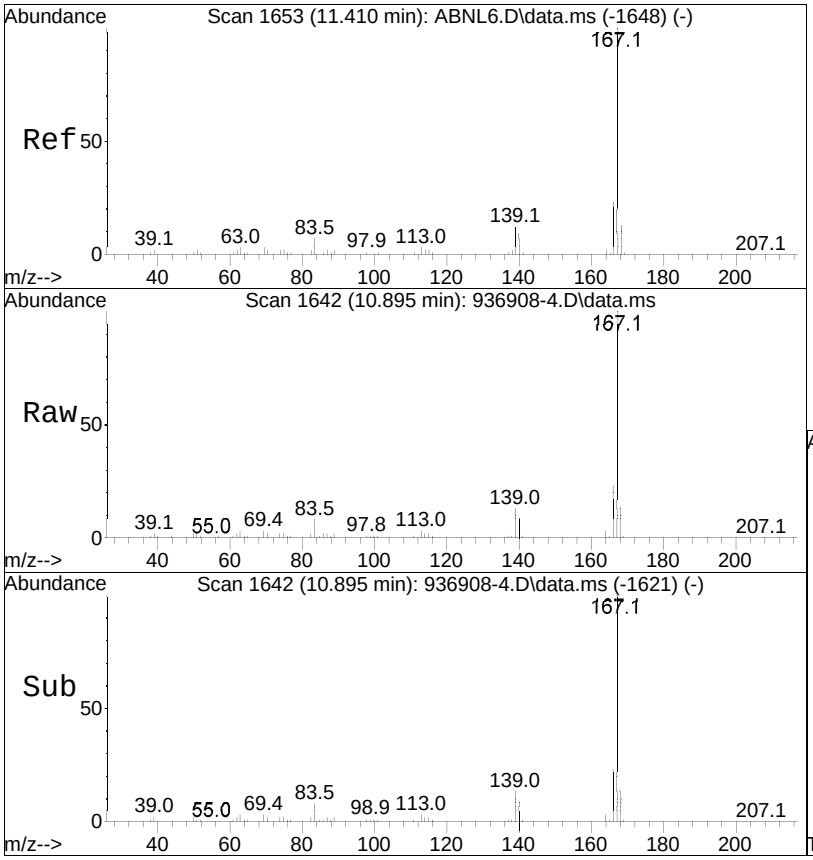


#86
Atrazine
Concen: 1.41 ug/ml
RT: 10.448 min Scan# 1566
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:200 Resp: 19134

Ion	Ratio	Lower	Upper
200	100		
202	33.0	25.8	38.6
215	47.5	40.2	60.4

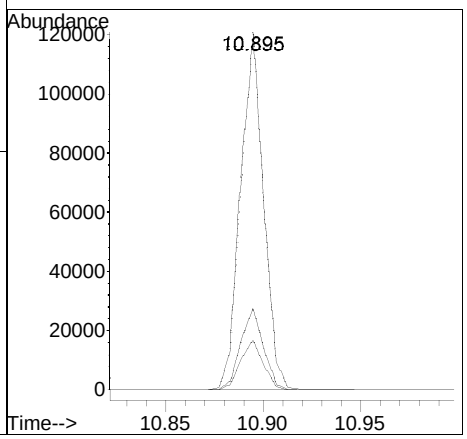


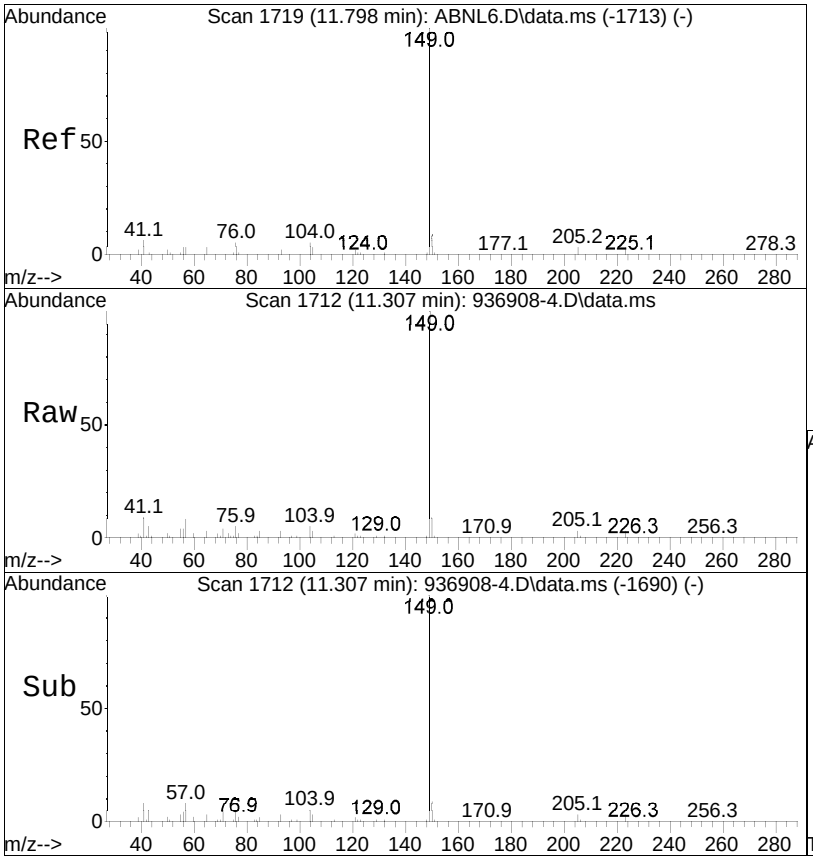


#90
Carbazole
Concen: 1.35 ug/ml
RT: 10.895 min Scan# 1642
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:167 Resp: 97594

Ion	Ratio	Lower	Upper
167	100		
168	13.8	10.6	15.8
166	22.7	17.4	26.0

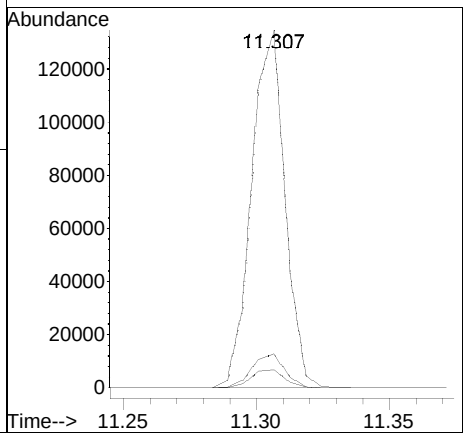


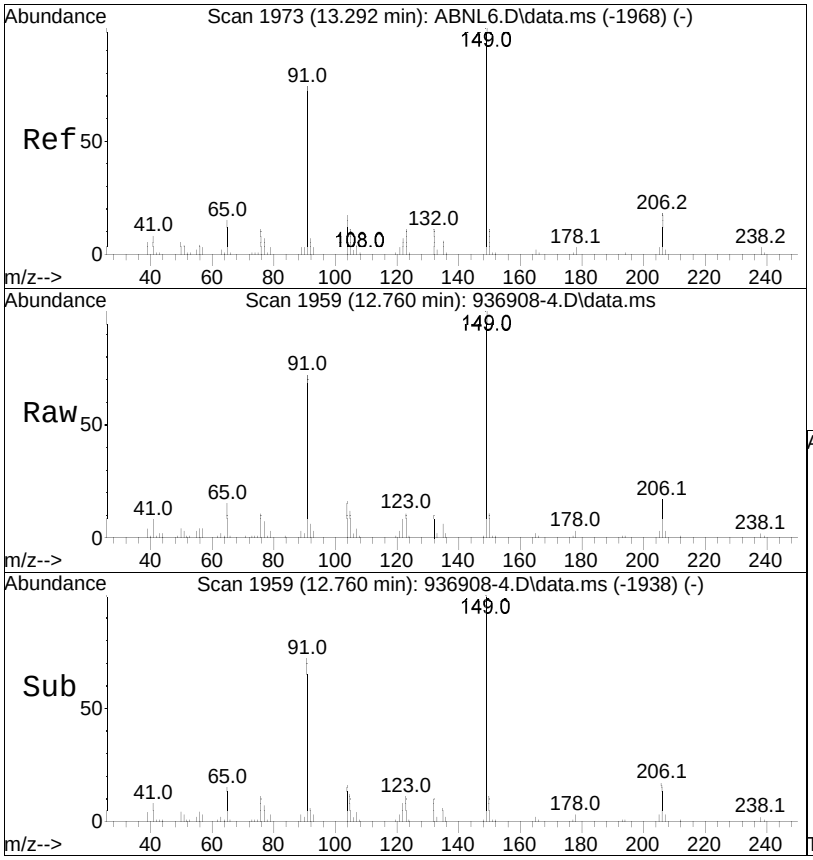


#91
Di-n-butylphthalate
Concen: 1.37 ug/ml
RT: 11.307 min Scan# 1712
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:149 Resp: 115693

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	5.2	4.5	6.7

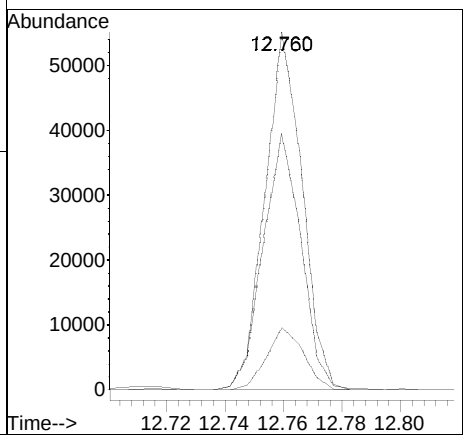


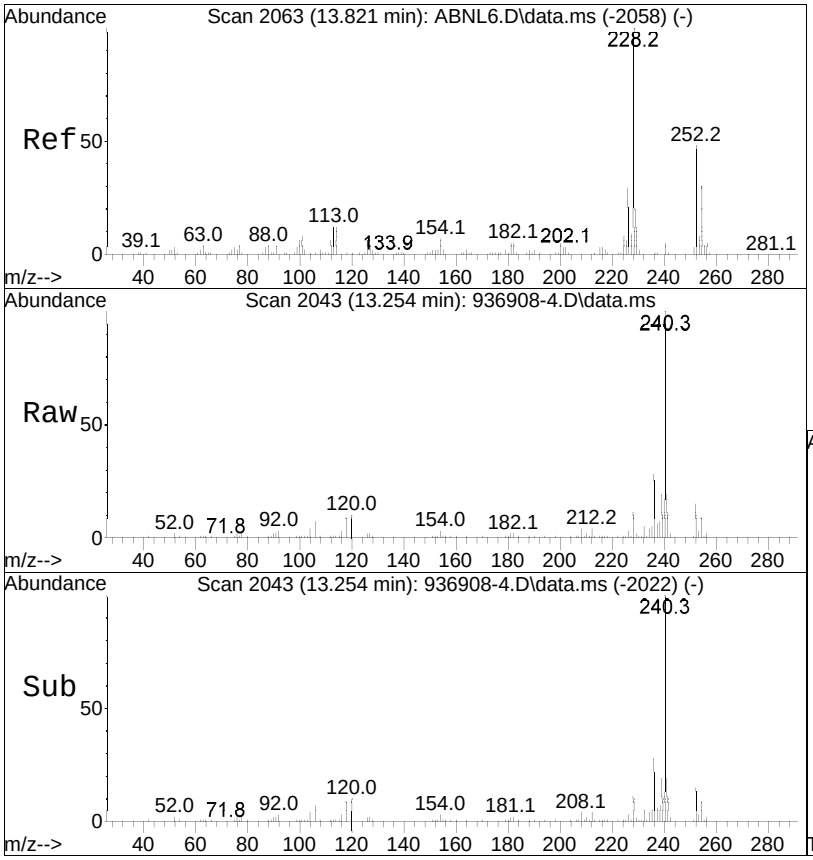


#96
Butyl benzyl phthalate
Concen: 1.50 ug/ml
RT: 12.760 min Scan# 1959
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:149 Resp: 48227

Ion	Ratio	Lower	Upper
149	100		
91	73.4	63.3	94.9
206	17.4	13.9	20.9

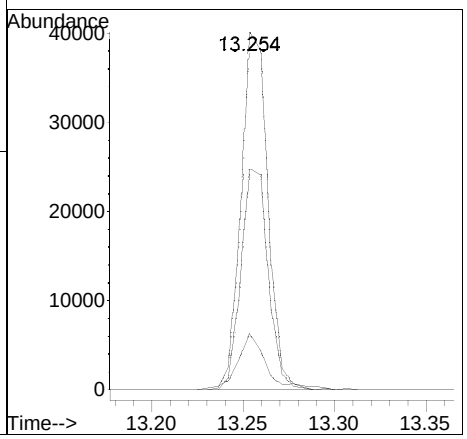


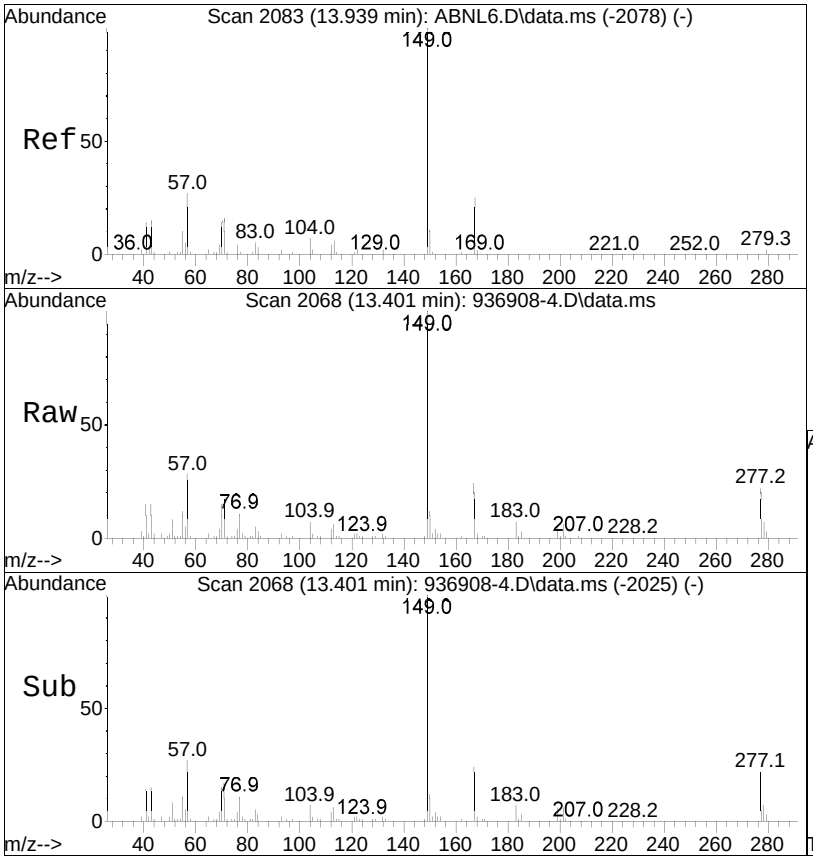


#105
3,3'-Dichlorobenzidine
Concen: 1.51 ug/ml
RT: 13.254 min Scan# 2043
Delta R.T. -0.000 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:252 Resp: 40527

Ion	Ratio	Lower	Upper
252	100		
126	16.3	14.5	21.7
254	62.5	51.2	76.8

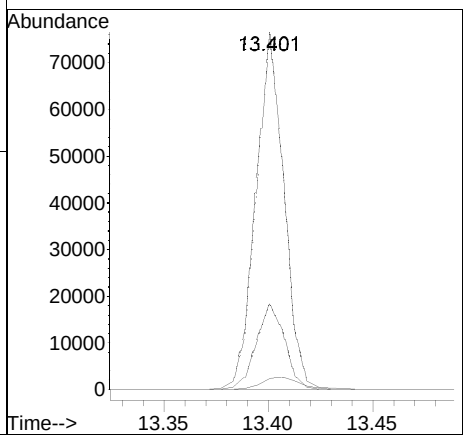


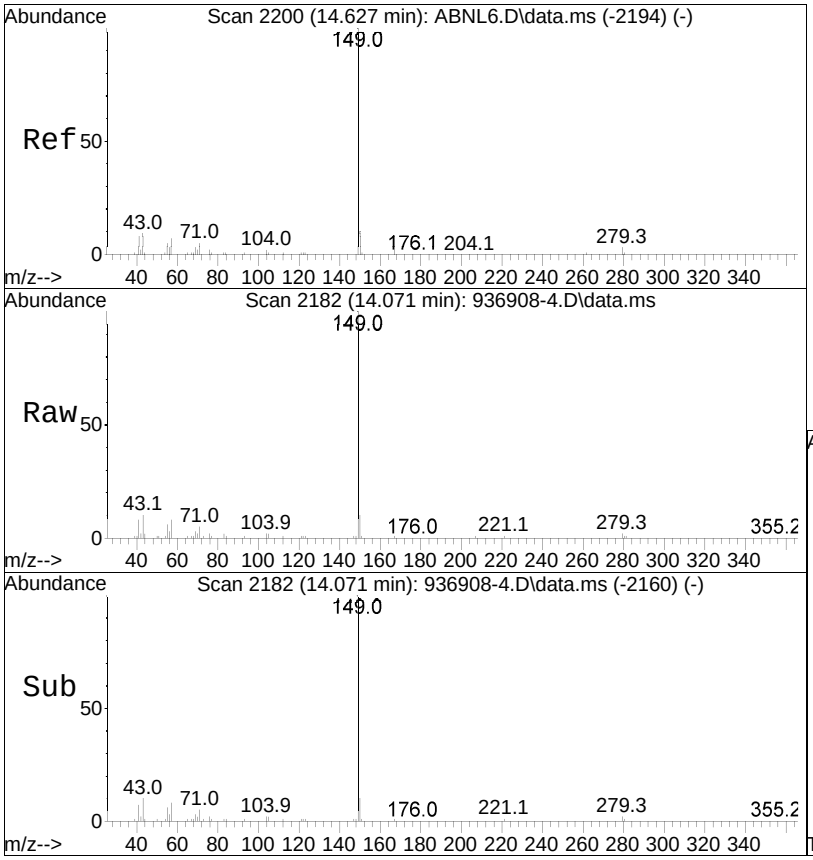


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.44 ug/ml
RT: 13.401 min Scan# 2068
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:149 Resp: 70554

Ion	Ratio	Lower	Upper
149	100		
167	24.5	22.1	33.1
279	4.3	3.0	4.4

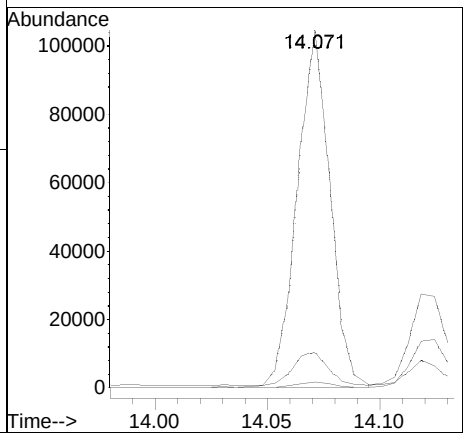




#108
Di-n-octylphthalate
Concen: 1.52 ug/ml
RT: 14.071 min Scan# 2182
Delta R.T. 0.006 min
Lab File: 936908-4.D
Acq: 21 Jun 2024 10:26 am

Tgt Ion:149 Resp: 104975

Ion	Ratio	Lower	Upper
149	100		
43	10.0	18.8	28.2#
167	1.4	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\SV107\240620NRVT\	QMethod	: FS240602SV107RVT.m
Data File	: 936908-4.D	Operator	: SV107:sz
Date Inj'd	: 6/21/2024 10:26 am	Instrument	: SV107
Sample	: WG1936908-4,32,,ASK	Quant Date	: 6/21/2024 11:09 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-5.D
Acq On : 21 Jun 2024 10:52 am
Operator : SV107:sz
Sample : WG1936908-5,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 11:54:50 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.954	152	69889	4.000	ug/ml	0.00
Standard Area 1 = 64707			Recovery = 108.01%			
27) IS2_1,4-Dichlorobenzen...	5.954	152	69889	4.000	ug/ml	0.00
Standard Area 3 = 64708			Recovery = 108.01%			
34) IS1_Naphthalene-d8	7.442	136	255276	4.000	ug/ml	0.00
Standard Area 1 = 235755			Recovery = 108.28%			
54) IS2_Naphthalene-d8	7.442	136	255276	4.000	ug/ml	0.00
Standard Area 3 = 235329			Recovery = 108.48%			
62) IS1_Acenaphthene-d10	9.219	164	153274	4.000	ug/ml	0.00
Standard Area 1 = 141034			Recovery = 108.68%			
82) IS2_Acenaphthene-d10	9.219	164	153274	4.000	ug/ml	0.00
Standard Area 3 = 132909			Recovery = 115.32%			
85) IS3_Acenaphthene-d10	9.219	164	153274	4.000	ug/ml	0.00
Standard Area 2 = 134249			Recovery = 114.17%			
87) IS1_Phenanthrene-d10	10.648	188	312307	4.000	ug/ml	0.00
Standard Area 1 = 276864			Recovery = 112.80%			
99) IS3_Phenanthrene-d10	10.648	188	312307	4.000	ug/ml	0.00
Standard Area 2 = 271047			Recovery = 115.22%			
103) IS1_Chrysene-d12	13.254	240	257585	4.000	ug/ml	0.00
Standard Area 1 = 231677			Recovery = 111.18%			
112) IS1_Perylene-d12	14.701	264	255461	4.000	ug/ml	0.02
Standard Area 1 = 238143			Recovery = 107.27%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.619	112	3841	0.206	ug/ml	0.04
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.30%#			
7) Phenol-d6	5.590	99	6398	0.277	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 13.85%#			
19) Nitrobenzene-d5	6.654	82	17404	0.855	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 85.50%			
45) 2-Fluorobiphenyl	8.589	172	41824	0.757	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 75.70%			
78) 2,4,6-Tribromophenol	9.989	330	1824	0.279	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 13.95%#			
95) 4-Terphenyl-d14	12.230	244	47811	0.700	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 70.00%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-5.D
Acq On : 21 Jun 2024 10:52 am
Operator : SV107:sz
Sample : WG1936908-5,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 11:54:50 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	5.672	128	7879	0.383	ug/ml	95
8) Phenol	5.607	94	8804	0.350	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.390	45	47752	1.684	ug/ml#	62
15) 2-Methylphenol	6.390	108	18291	1.016	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.542	70	25113	1.635	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.590	108	17944	0.947	ug/ml#	39
20) Nitrobenzene	6.678	77	34094	1.630	ug/ml	97
21) Isophorone	6.972	82	61386	1.521	ug/ml	96
22) 2-Nitrophenol	7.048	139	3169	0.340	ug/ml#	92
23) 2,4-Dimethylphenol	7.172	107	20649	1.086	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.266	93	41680	1.582	ug/ml#	97
25) 2,4-Dichlorophenol	7.325	162	7252	0.379	ug/ml	94
28) Benzaldehyde	5.325	105	26467	1.480	ug/ml	97
29) Acetophenone	6.495	105	48028	1.553	ug/ml#	87
37) 4-Chloroaniline	7.560	65	9869	1.231	ug/ml	92
39) p-Chloro-m-cresol	8.113	107	17354	0.999	ug/ml	96
42) Hexachlorocyclopentadiene	8.378	237	15542	1.187	ug/ml	99
43) 2,4,6-Trichlorophenol	8.501	196	4059	0.269	ug/ml	96
44) 2,4,5-Trichlorophenol	8.531	196	4739	0.296	ug/ml	97
47) 2-Nitroaniline	8.795	138	17463	1.581	ug/ml	93
50) Dimethyl phthalate	9.013	163	82175	1.535	ug/ml#	98
52) 2,6-Dinitrotoluene	9.048	165	15787	1.622	ug/ml#	84
59) Caprolactam	7.878	55	6055	0.636	ug/ml#	78
60) 1,2,4,5-Tetrachloroben...	8.372	216	34458	1.343	ug/ml	96
61) Biphenyl	8.678	154	83485	1.408	ug/ml	99
63) 3-Nitroaniline	9.201	138	15999	1.609	ug/ml#	92
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.419	168	104577	1.554	ug/ml	94
67) 2,4-Dinitrotoluene	9.436	165	19831	1.615	ug/ml	93
68) 4-Nitrophenol	9.407	65	2022	0.238	ug/ml#	1
71) Diethyl phthalate	9.707	149	79682	1.598	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.783	204	39370	1.529	ug/ml	90
74) 4-Nitroaniline	9.783	138	15196	1.511	ug/ml#	91
75) 4,6-Dinitro-o-cresol	9.825	198	1276	0.696	ug/ml#	67
76) NDPA/DPA	9.901	169	68244	1.574	ug/ml	94
79) 4-Bromophenyl phenyl e...	10.248	248	21989	1.525	ug/ml	90

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-5.D
Acq On : 21 Jun 2024 10:52 am
Operator : SV107:sz
Sample : WG1936908-5,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 11:54:50 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240620NRVT\ABN0620n.D
: 2 - I:\8270\sv107\240620NRVT\ADP0620n.D
: 3 - I:\8270\sv107\240620NRVT\AP90620n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	10.448	200	20925	1.573	ug/ml	94
90) Carbazole	10.895	167	107133	1.478	ug/ml	97
91) Di-n-butylphthalate	11.307	149	126007	1.483	ug/ml	98
96) Butyl benzyl phthalate	12.760	149	53838	1.627	ug/ml	95
105) 3,3'-Dichlorobenzidine	13.260	252	46774	1.690	ug/ml#	98
107) Bis(2-ethylhexyl)phtha...	13.401	149	77545	1.528	ug/ml	95
108) Di-n-octylphthalate	14.077	149	110971	1.547	ug/ml#	74

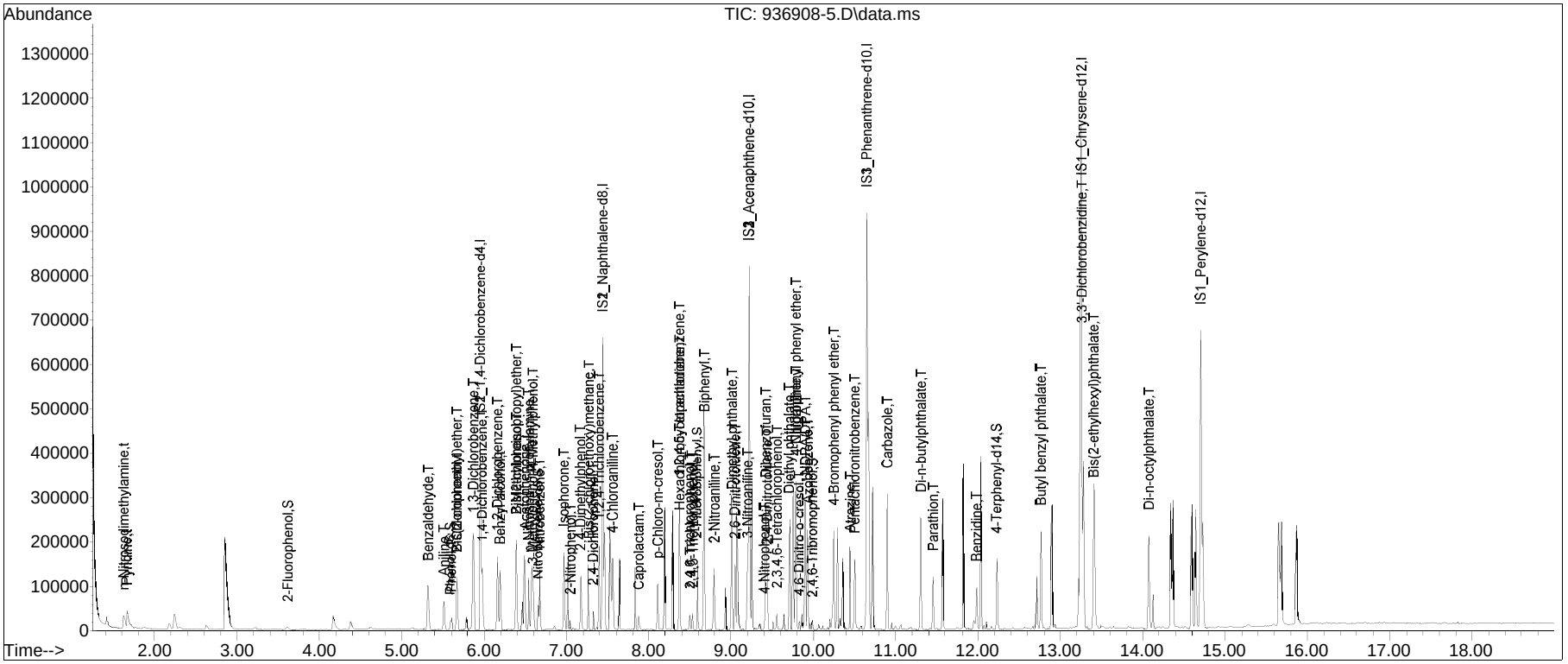
(#) = qualifier out of range (m) = manual integration (+) = signals summed

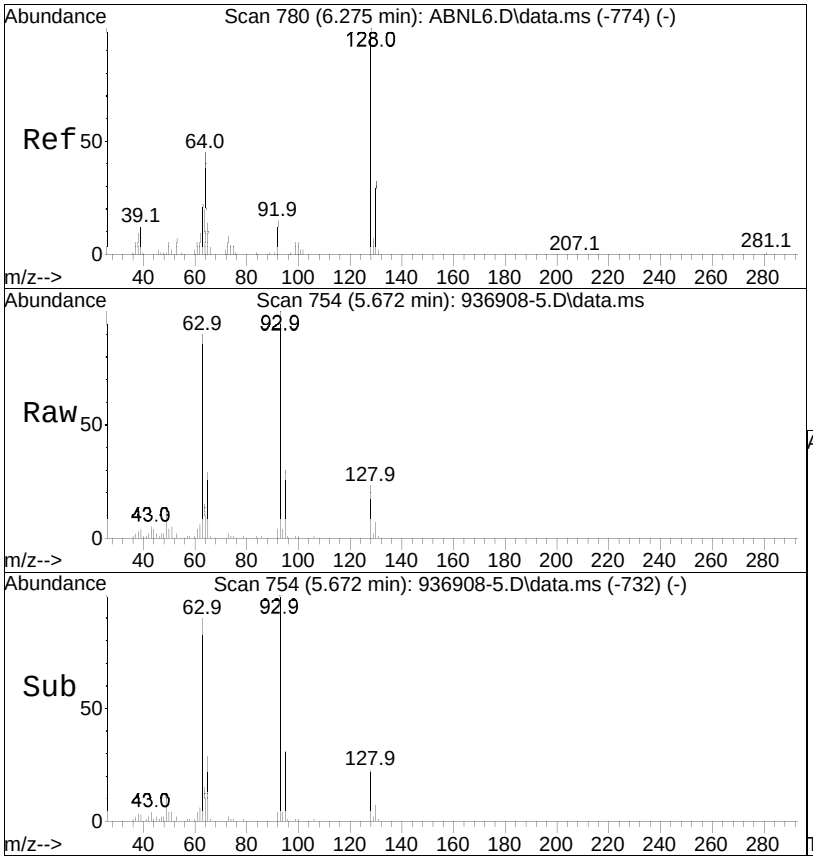
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240620NRVT\
Data File : 936908-5.D
Acq On : 21 Jun 2024 10:52 am
Operator : SV107:sz
Sample : WG1936908-5,32,,ASK
Misc : WG1937320,WG1936908,ical21169
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 21 11:54:50 2024
Quant Method : I:\8270\sv107\240620NRVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 11:12:21 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90620n.D•

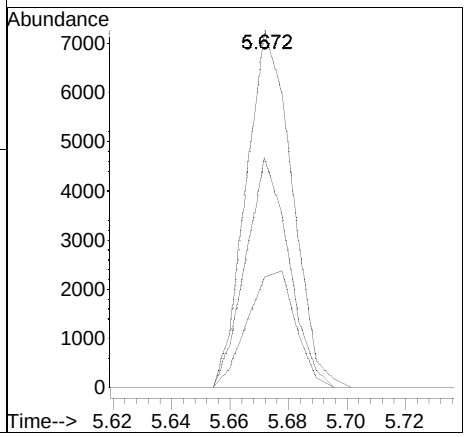


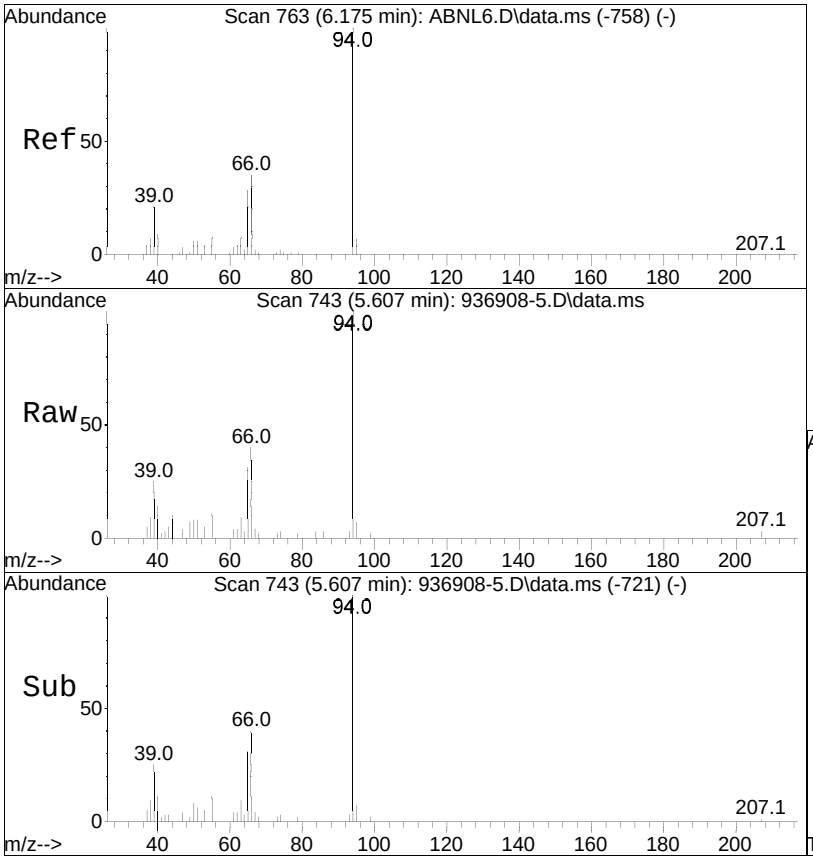


#6
2-Chlorophenol
Concen: 0.38 ug/ml
RT: 5.672 min Scan# 754
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:128 Resp: 7879

Ion	Ratio	Lower	Upper
128	100		
64	60.6	45.1	67.7
130	34.2	26.2	39.4

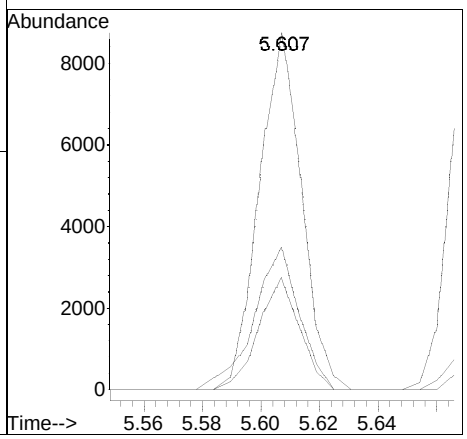


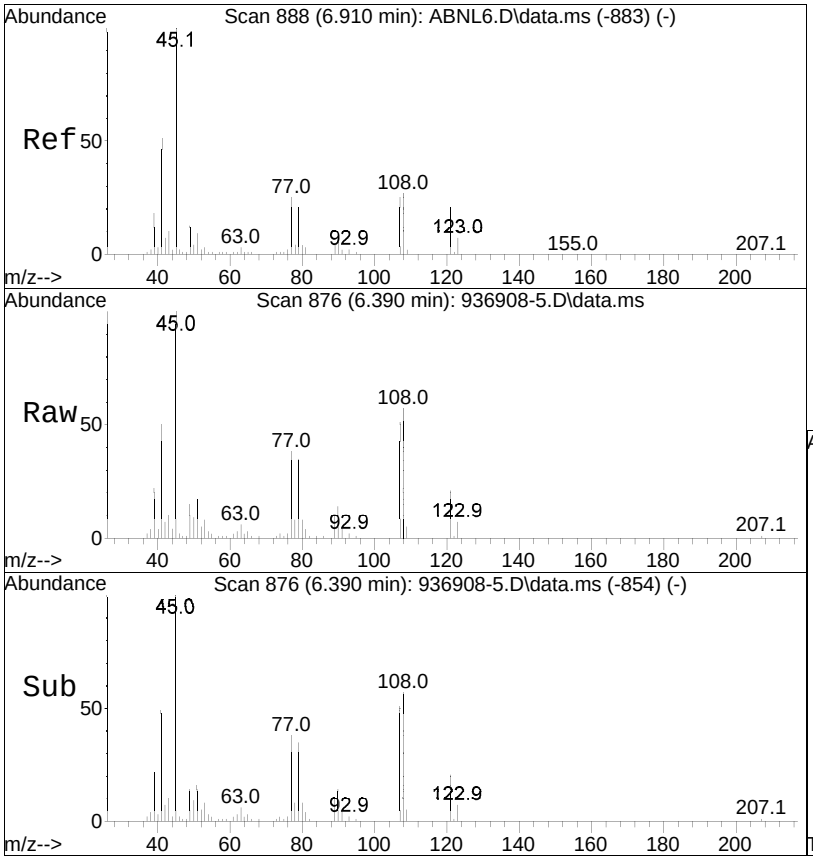


#8
Phenol
Concen: 0.35 ug/ml
RT: 5.607 min Scan# 743
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 94 Resp: 8804

Ion	Ratio	Lower	Upper
94	100		
65	30.4	26.0	39.0
66	42.7	33.8	50.8

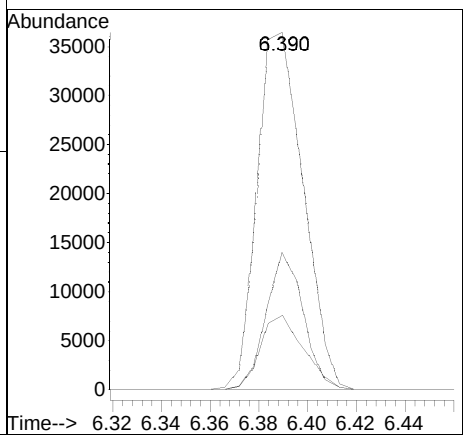


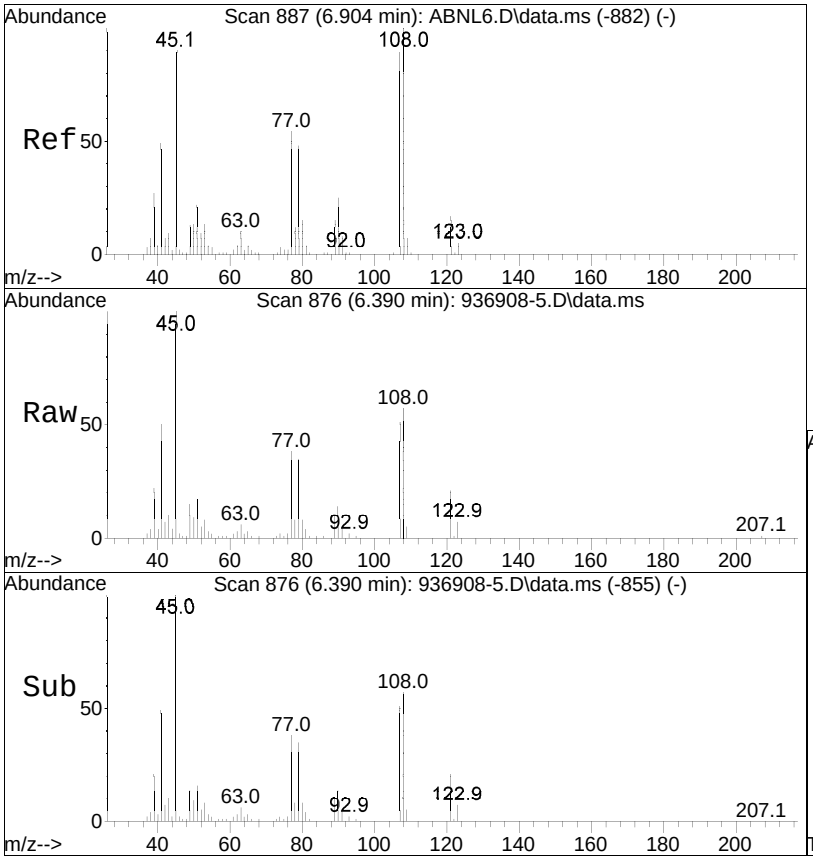


#14
Bis(2-chloroisopropyl)ether
Concen: 1.68 ug/ml
RT: 6.390 min Scan# 876
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 45 Resp: 47752

Ion	Ratio	Lower	Upper
45	100		
121	19.7	9.8	14.6#
77	31.0	6.1	9.1#

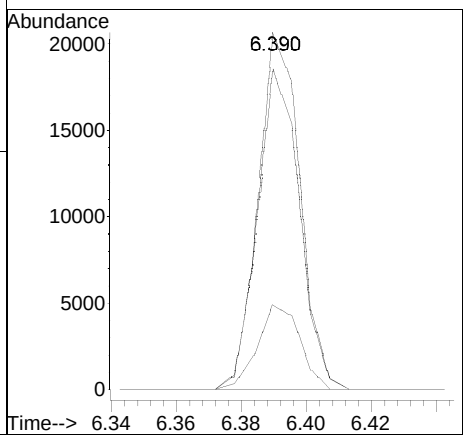


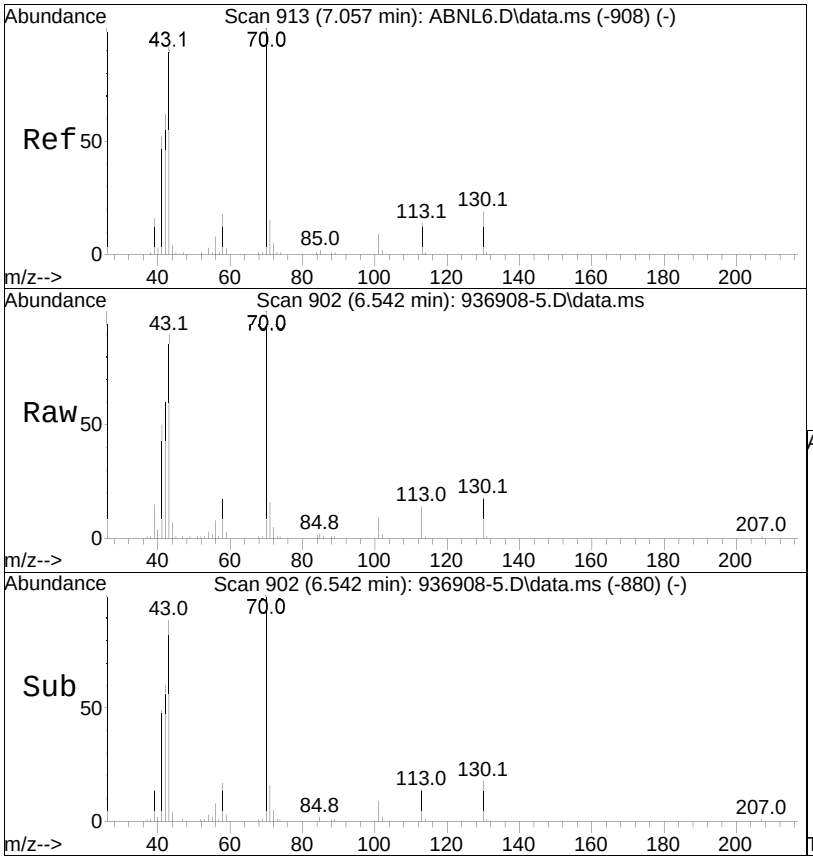


#15
2-Methylphenol
Concen: 1.02 ug/ml
RT: 6.390 min Scan# 876
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:108 Resp: 18291

Ion	Ratio	Lower	Upper
108	100		
107	90.5	70.7	106.1
90	24.4	18.7	28.1

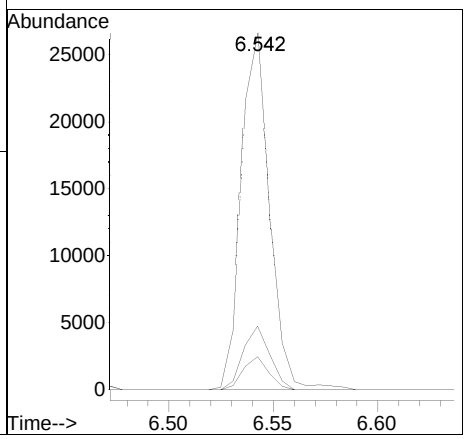


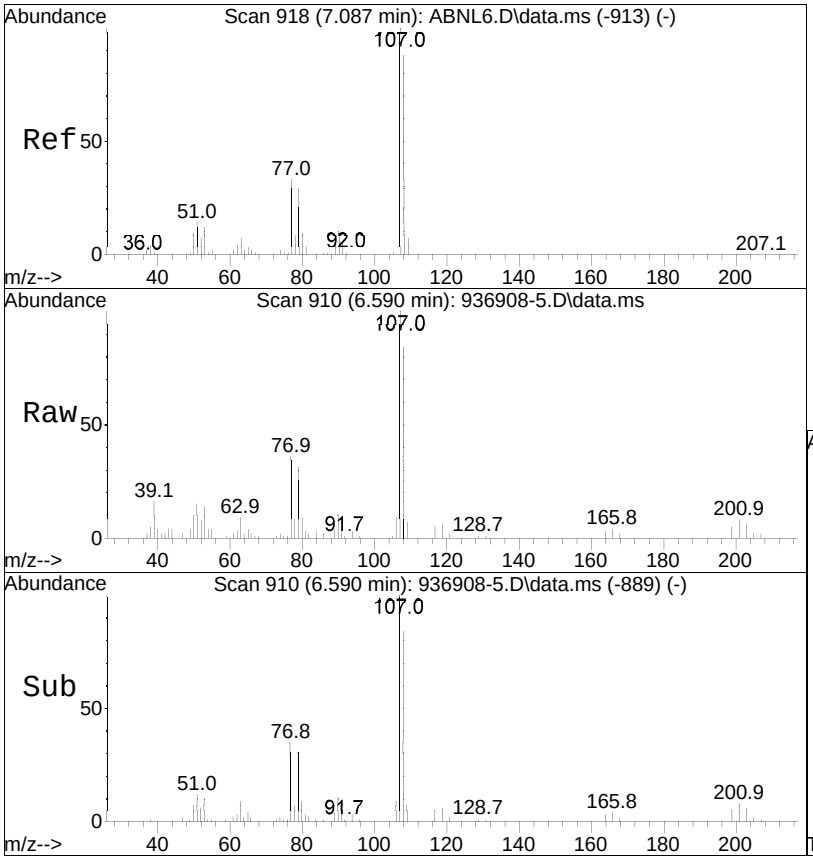


#17
n-Nitrosodi-n-propylamine
Concen: 1.63 ug/ml
RT: 6.542 min Scan# 902
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 70 Resp: 25113

Ion	Ratio	Lower	Upper
70	100		
130	16.7	18.2	27.4#
101	8.3	7.8	11.8

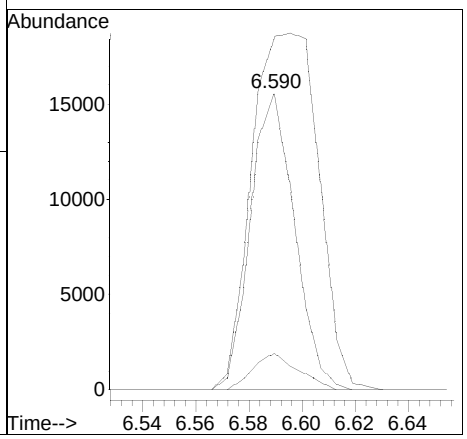


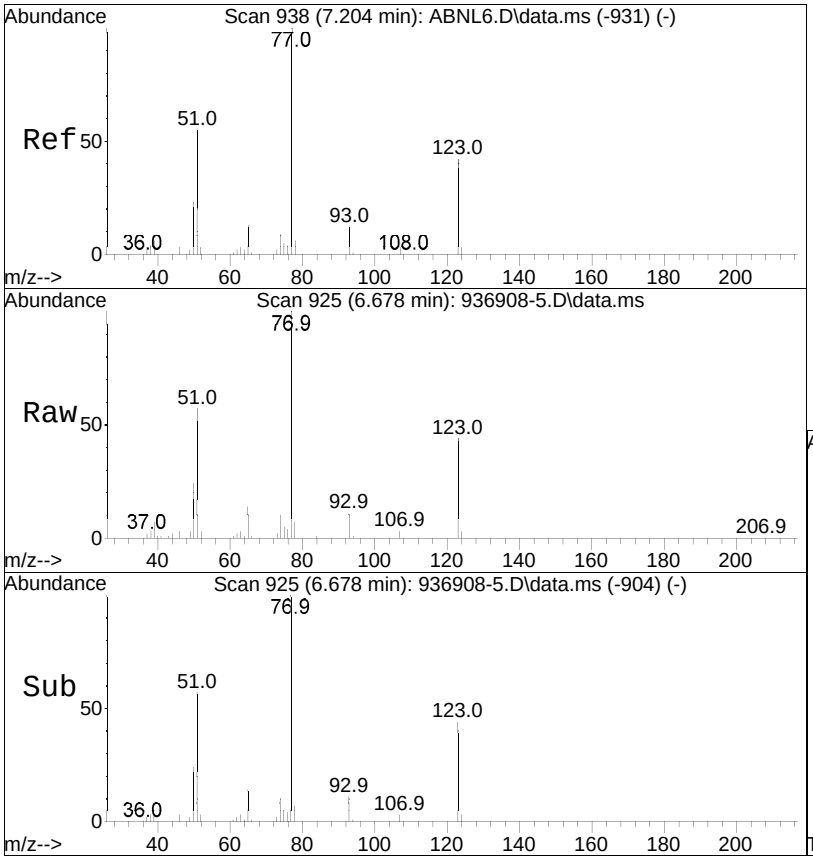


#18
3-Methylphenol/4-Methylphenol
Concen: 0.95 ug/ml
RT: 6.590 min Scan# 910
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:108 Resp: 17944

Ion	Ratio	Lower	Upper
108	100		
107	181.9	88.6	132.8#
90	12.7	8.8	13.2

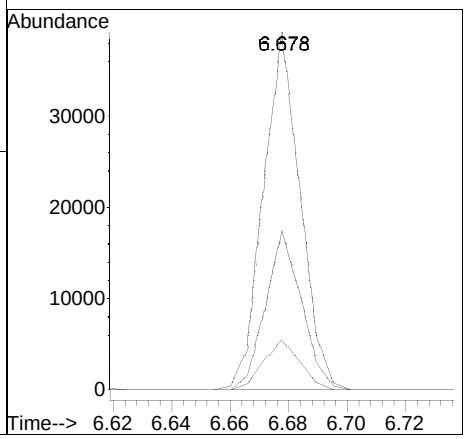


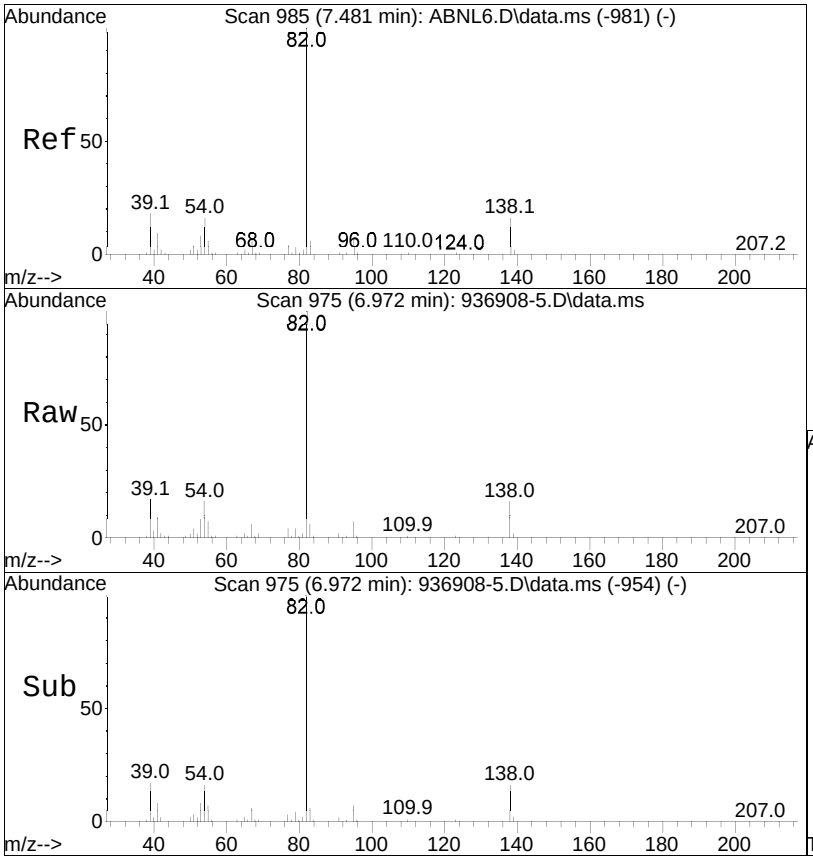


#20
Nitrobenzene
Concen: 1.63 ug/ml
RT: 6.678 min Scan# 925
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 77 Resp: 34094

Ion	Ratio	Lower	Upper
77	100		
123	43.5	36.3	54.5
65	13.9	11.6	17.4

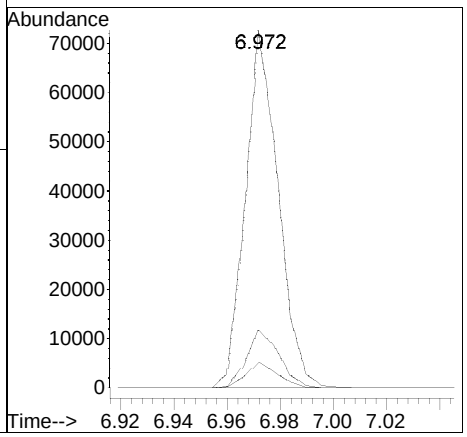


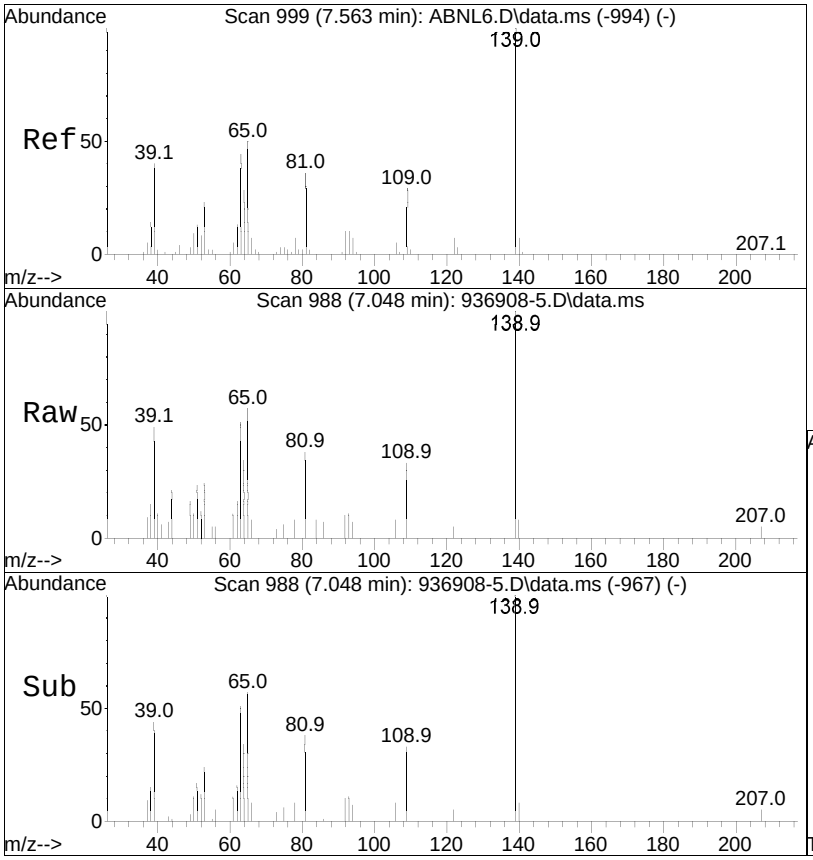


#21
Isophorone
Concen: 1.52 ug/ml
RT: 6.972 min Scan# 975
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 82 Resp: 61386

Ion	Ratio	Lower	Upper
82	100		
138	16.1	14.7	22.1
95	7.0	5.2	7.8

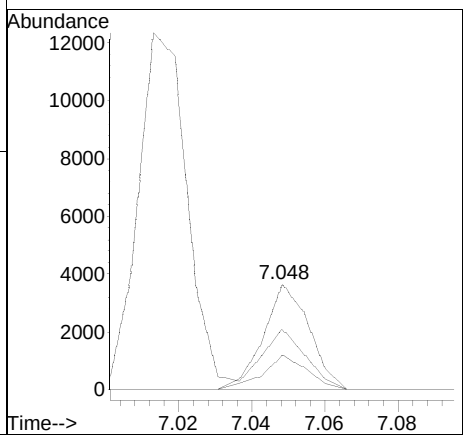


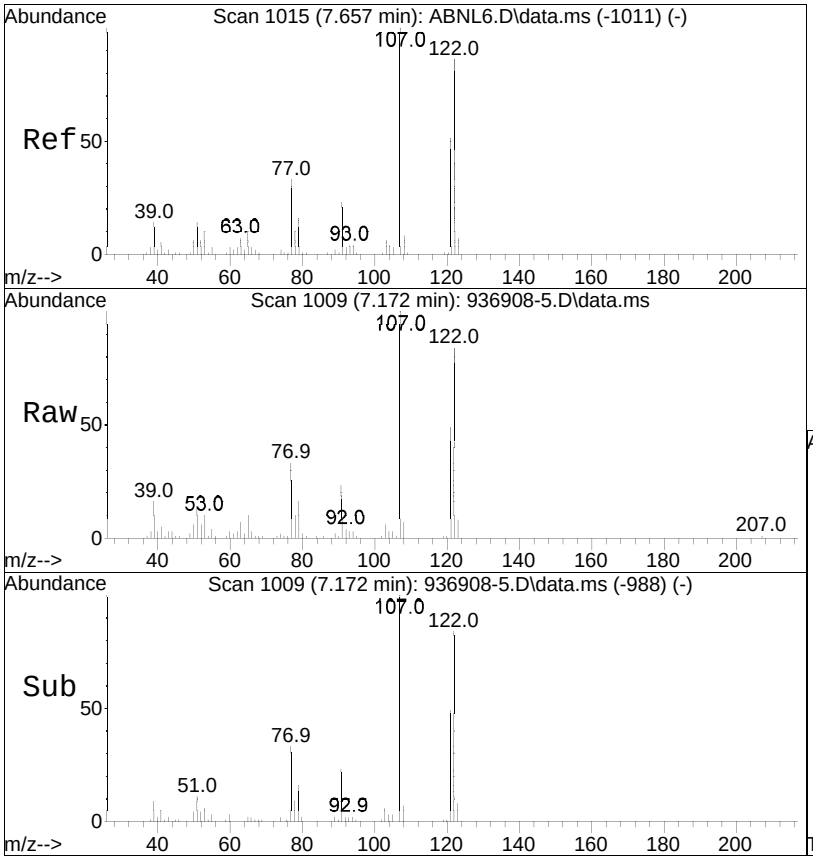


#22
2-Nitrophenol
Concen: 0.34 ug/ml
RT: 7.048 min Scan# 988
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:139 Resp: 3169

Ion	Ratio	Lower	Upper
139	100		
109	31.4	19.4	29.0#
65	54.0	46.1	69.1

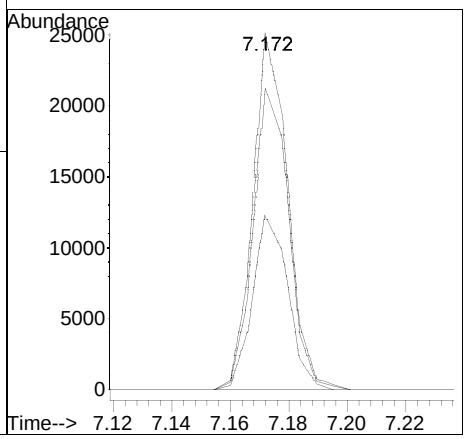


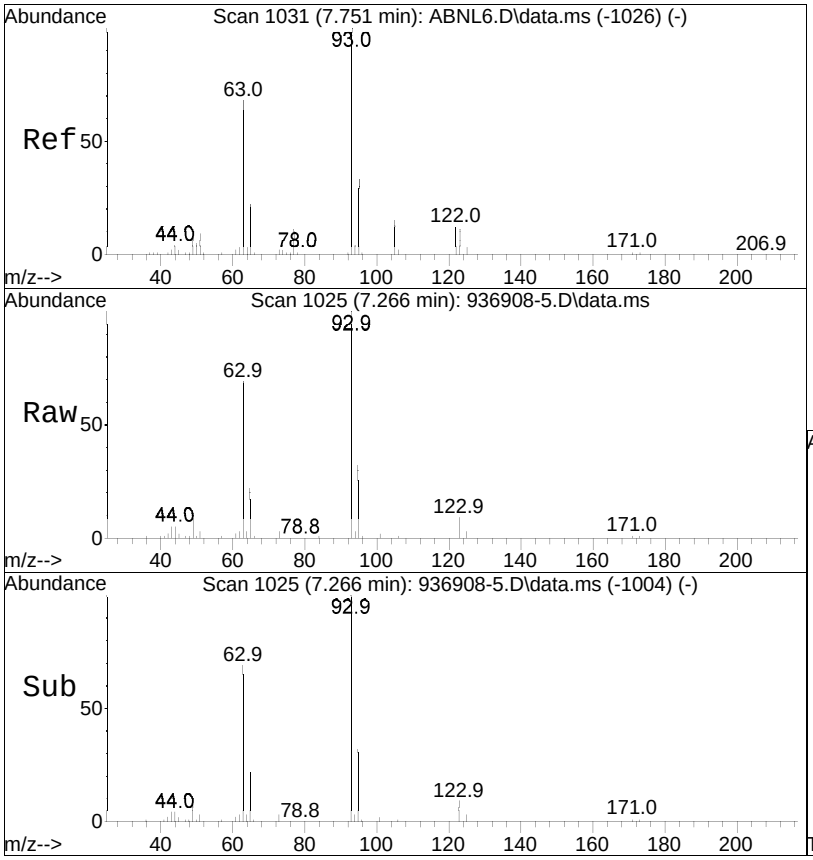


#23
2,4-Dimethylphenol
Concen: 1.09 ug/ml
RT: 7.172 min Scan# 1009
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:107 Resp: 20649

Ion	Ratio	Lower	Upper
107	100		
121	50.0	40.0	60.0
122	86.6	70.2	105.4

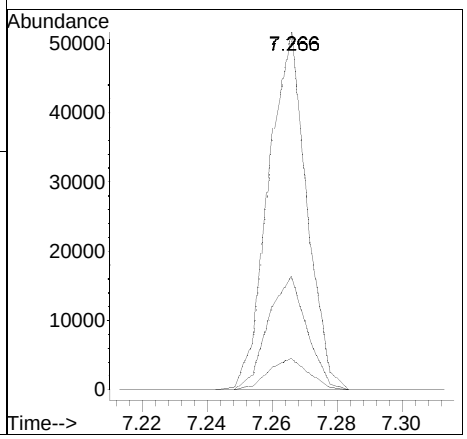


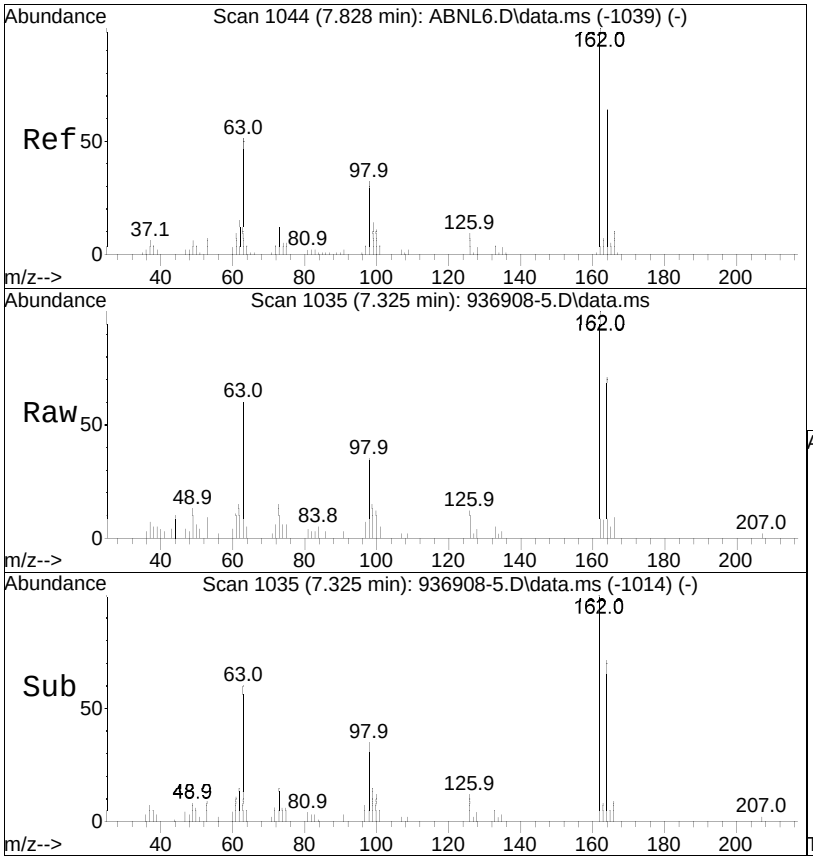


#24
Bis(2-chloroethoxy)methane
Concen: 1.58 ug/ml
RT: 7.266 min Scan# 1025
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 93 Resp: 41680

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.8	38.8
123	9.2	10.1	15.1#

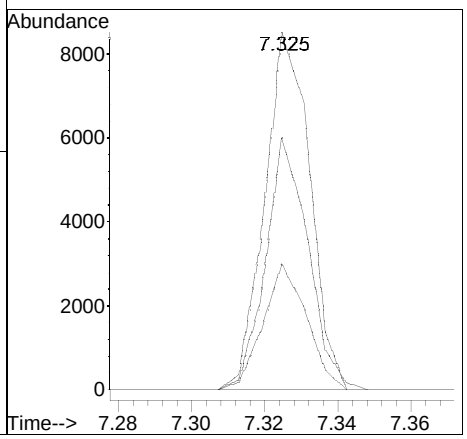


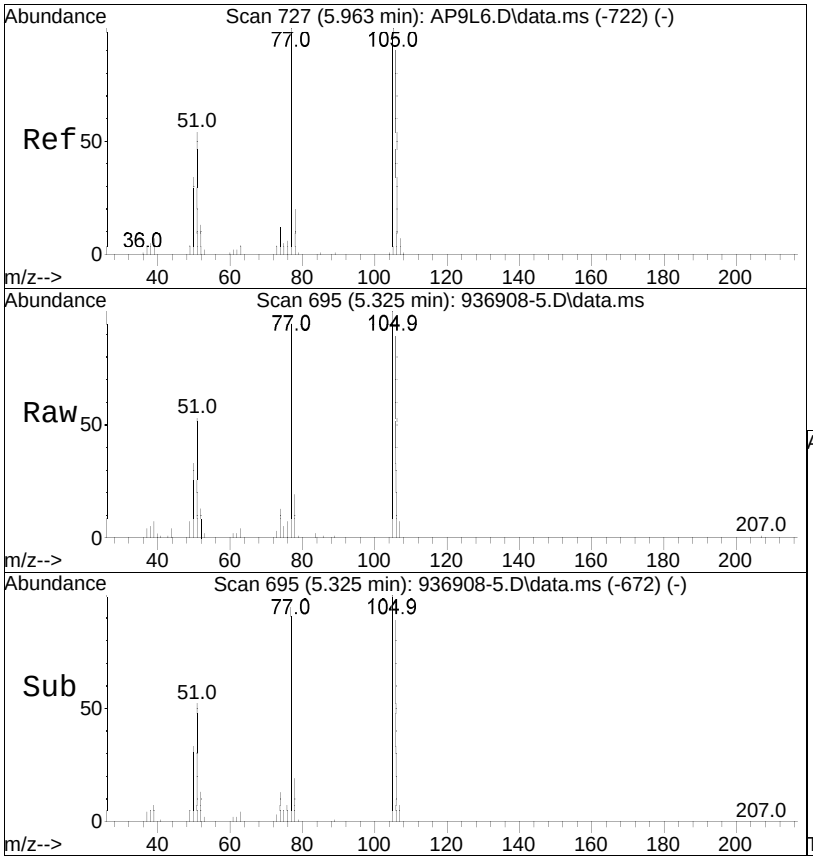


#25
2,4-Dichlorophenol
Concen: 0.38 ug/ml
RT: 7.325 min Scan# 1035
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:162 Resp: 7252

Ion	Ratio	Lower	Upper
162	100		
164	66.5	51.0	76.4
98	34.1	32.2	48.2

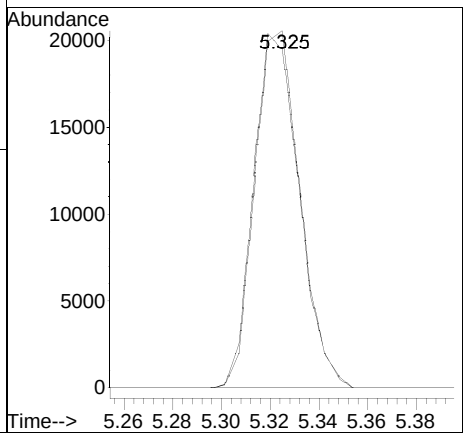


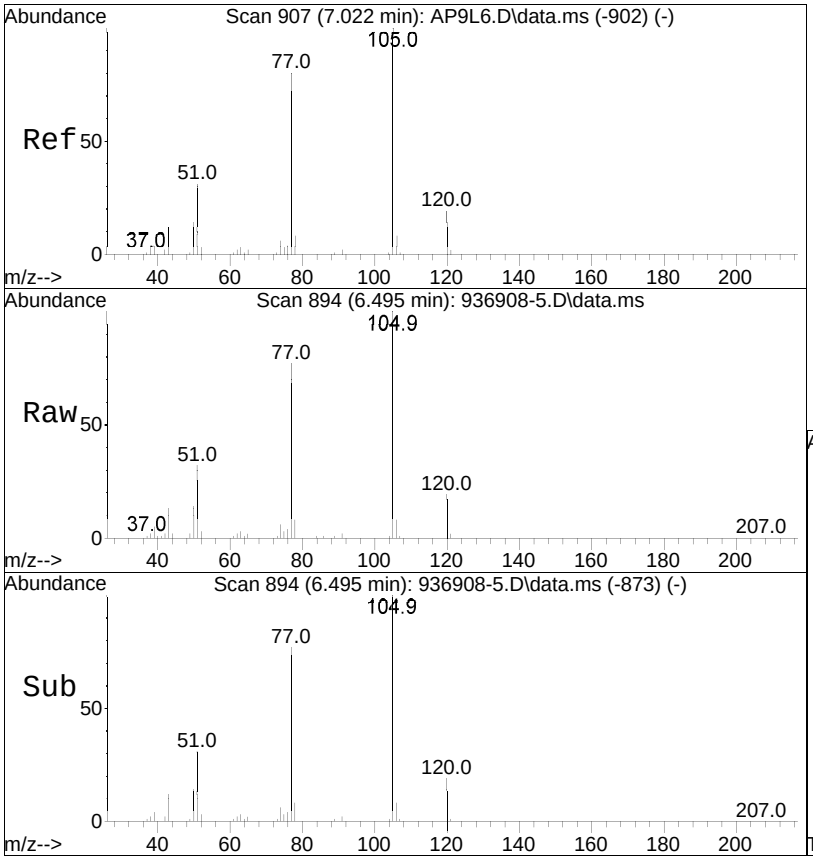


#28
Benzaldehyde
Concen: 1.48 ug/ml
RT: 5.325 min Scan# 695
Delta R.T. 0.012 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:105 Resp: 26467

Ion	Ratio	Lower	Upper
105	100		
77	99.9	82.2	123.4

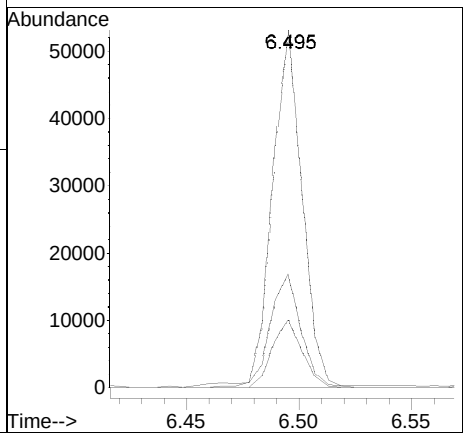


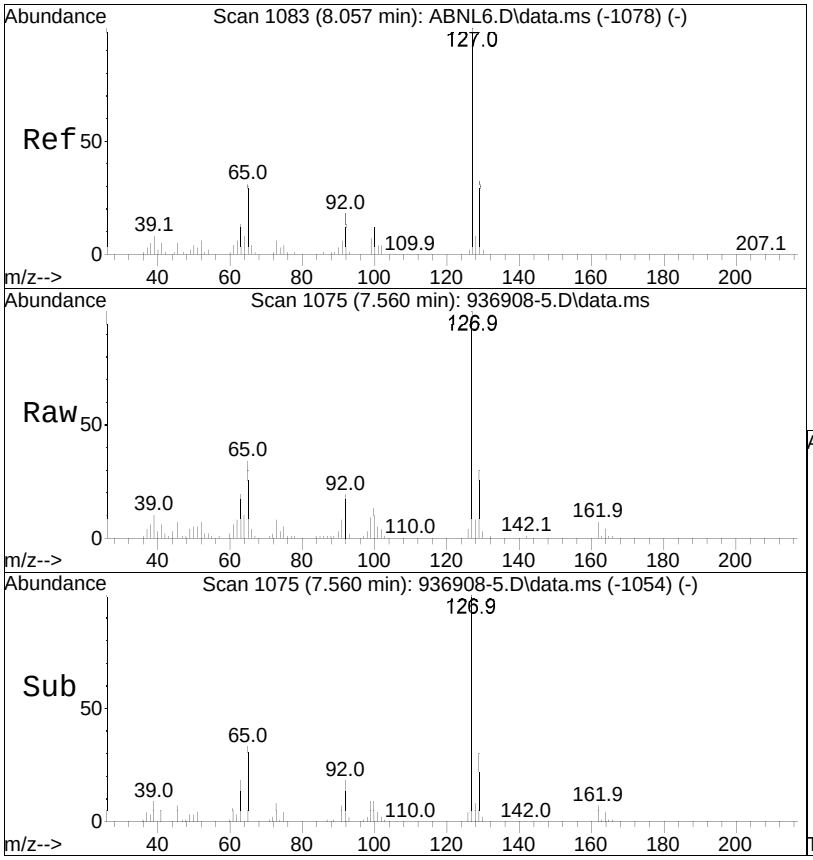


#29
Acetophenone
Concen: 1.55 ug/ml
RT: 6.495 min Scan# 894
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:105 Resp: 48028

Ion	Ratio	Lower	Upper
105	100		
120	19.2	20.5	30.7#
51	34.8	34.9	52.3#

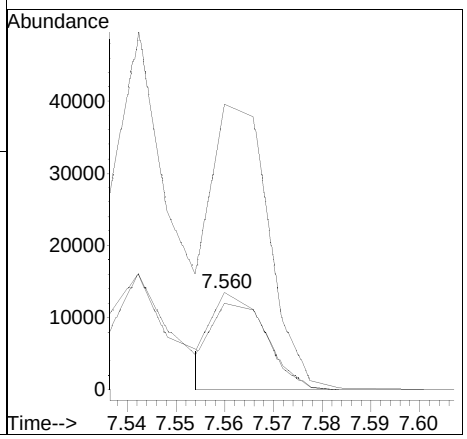


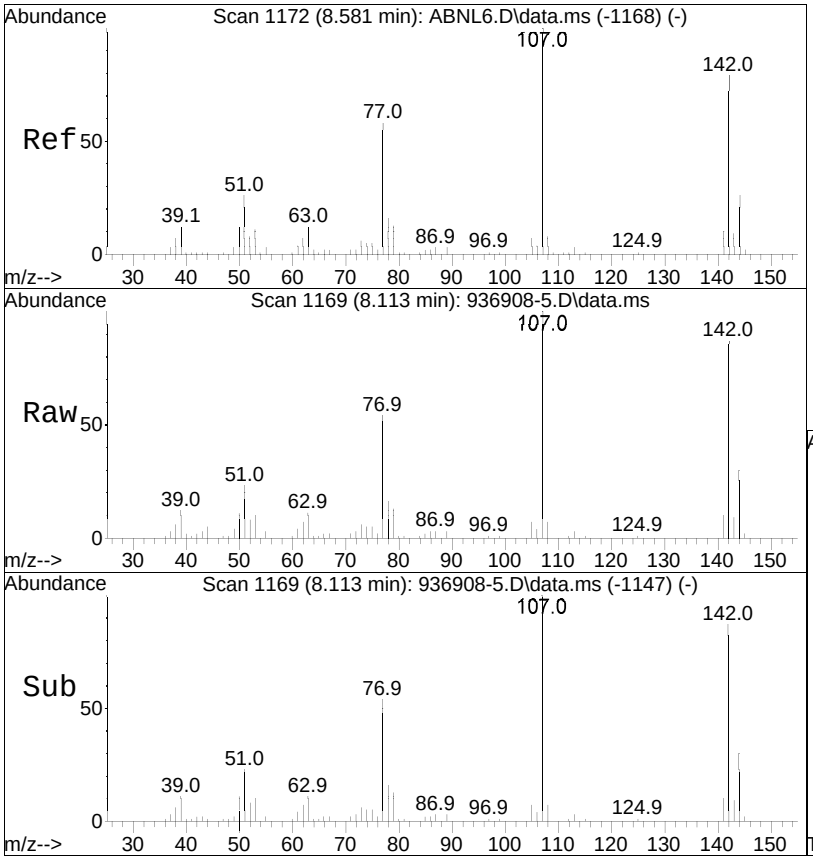


#37
4-Chloroaniline
Concen: 1.23 ug/ml
RT: 7.560 min Scan# 1075
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 65 Resp: 9869

Ion	Ratio	Lower	Upper
65	100		
127	317.6	237.6	356.4
129	96.0	76.3	114.5

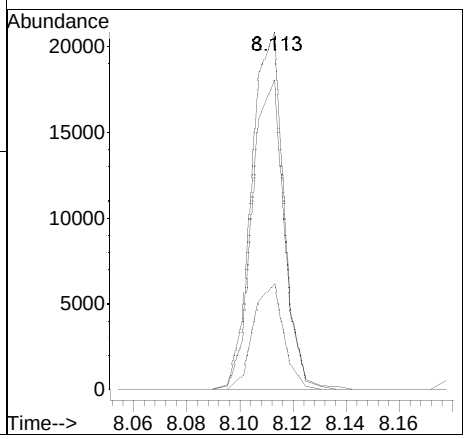


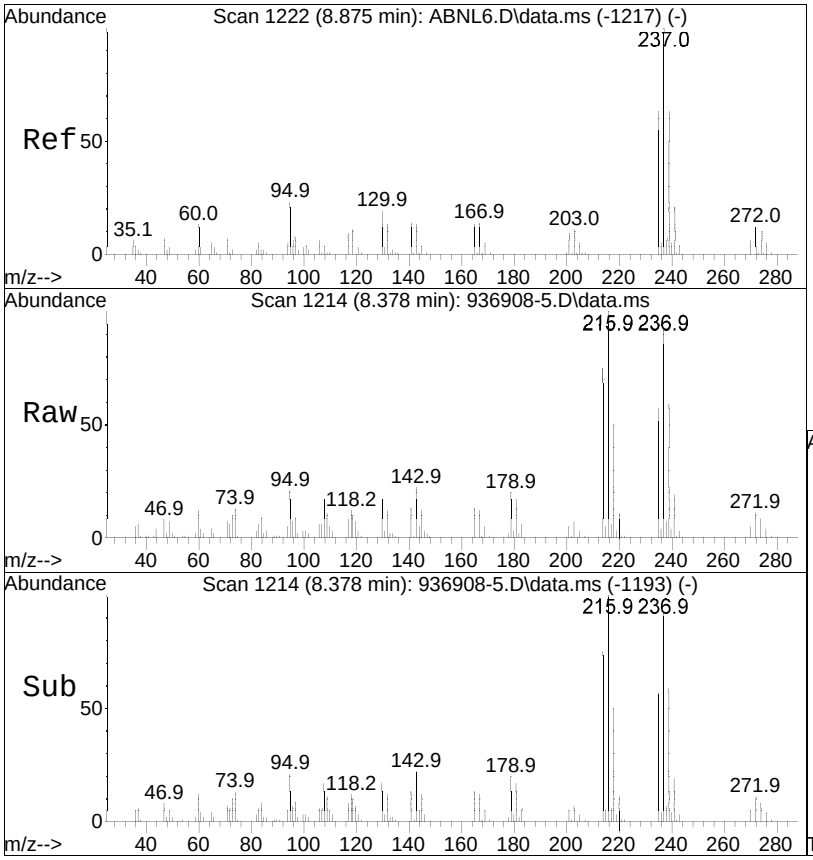


#39
p-Chloro-m-cresol
Concen: 1.00 ug/ml
RT: 8.113 min Scan# 1169
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:107 Resp: 17354

Ion	Ratio	Lower	Upper
107	100		
144	28.0	20.9	31.3
142	85.9	66.1	99.1

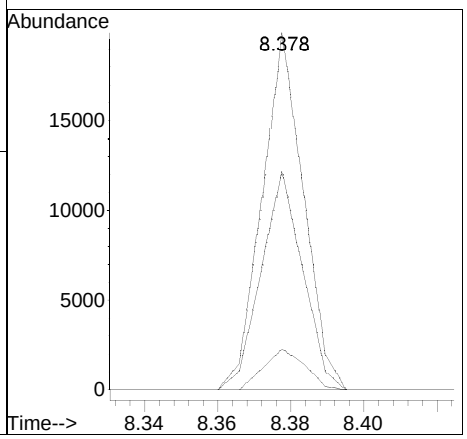


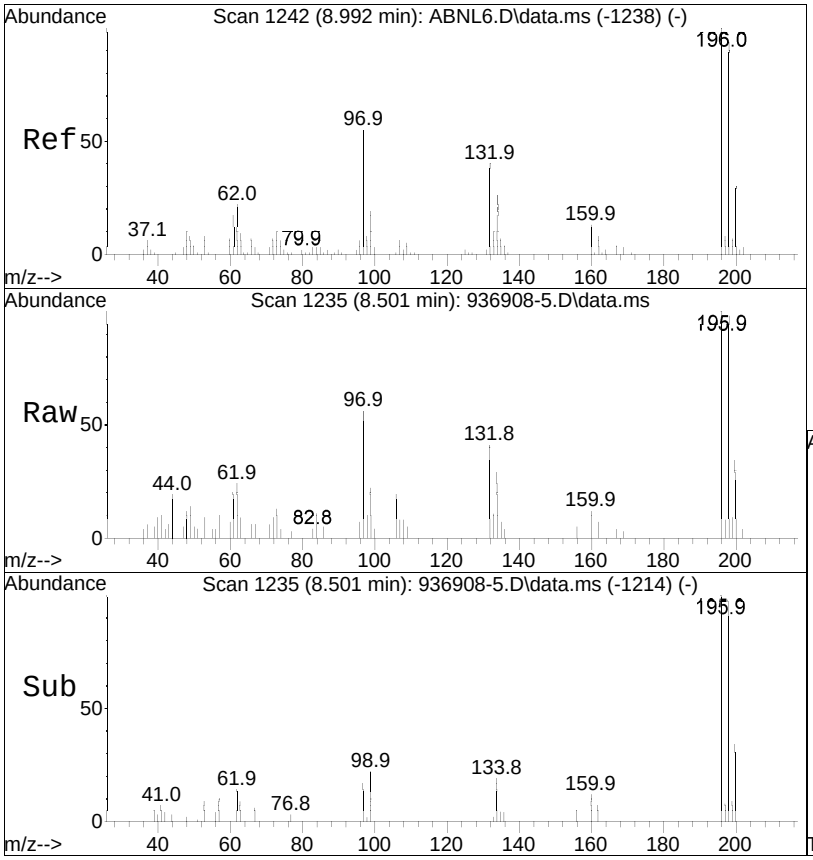


#42
Hexachlorocyclopentadiene
Concen: 1.19 ug/ml
RT: 8.378 min Scan# 1214
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:237 Resp: 15542

Ion	Ratio	Lower	Upper
237	100		
235	61.7	49.7	74.5
272	11.6	9.8	14.6

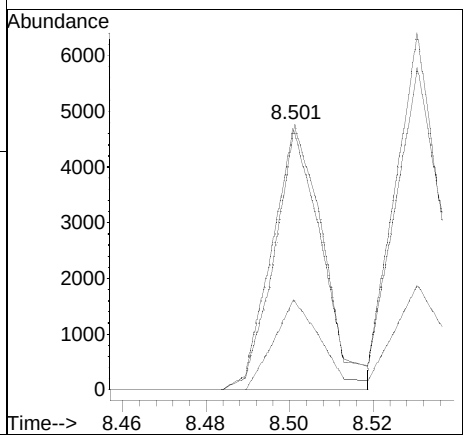


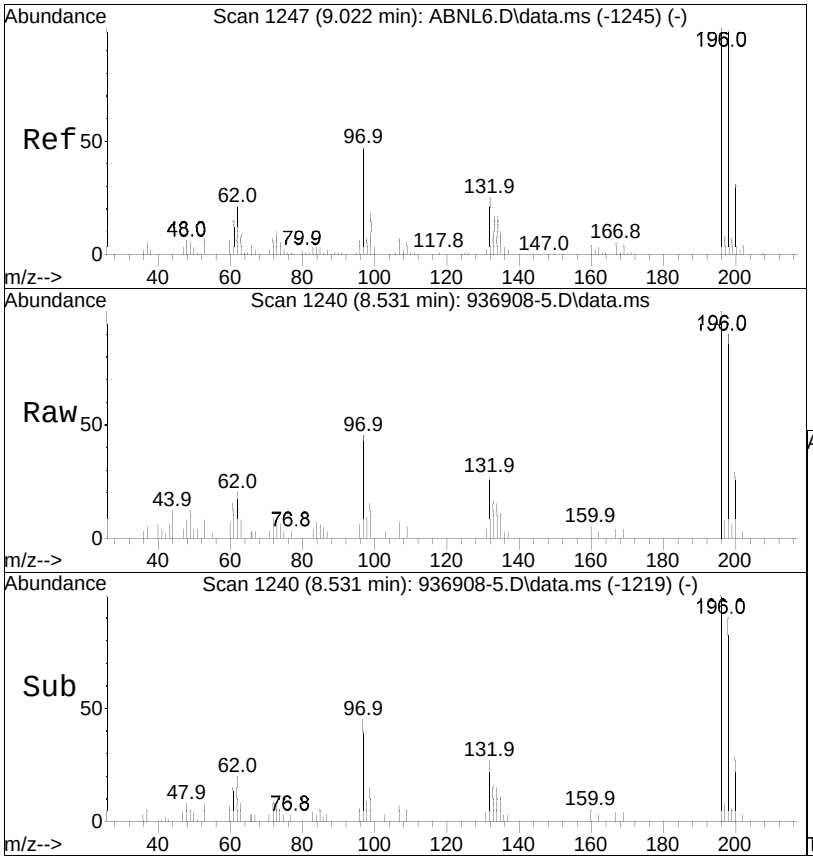


#43
2,4,6-Trichlorophenol
Concen: 0.27 ug/ml
RT: 8.501 min Scan# 1235
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:196 Resp: 4059

Ion	Ratio	Lower	Upper
196	100		
198	92.7	77.5	116.3
200	32.2	23.8	35.6

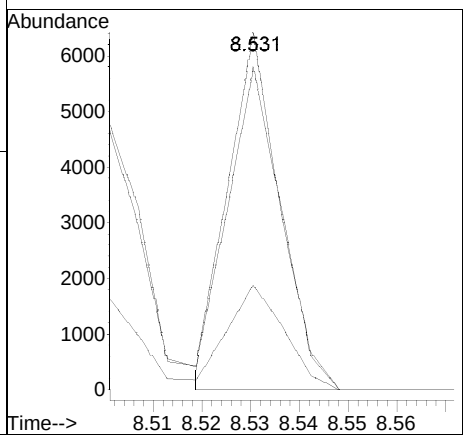


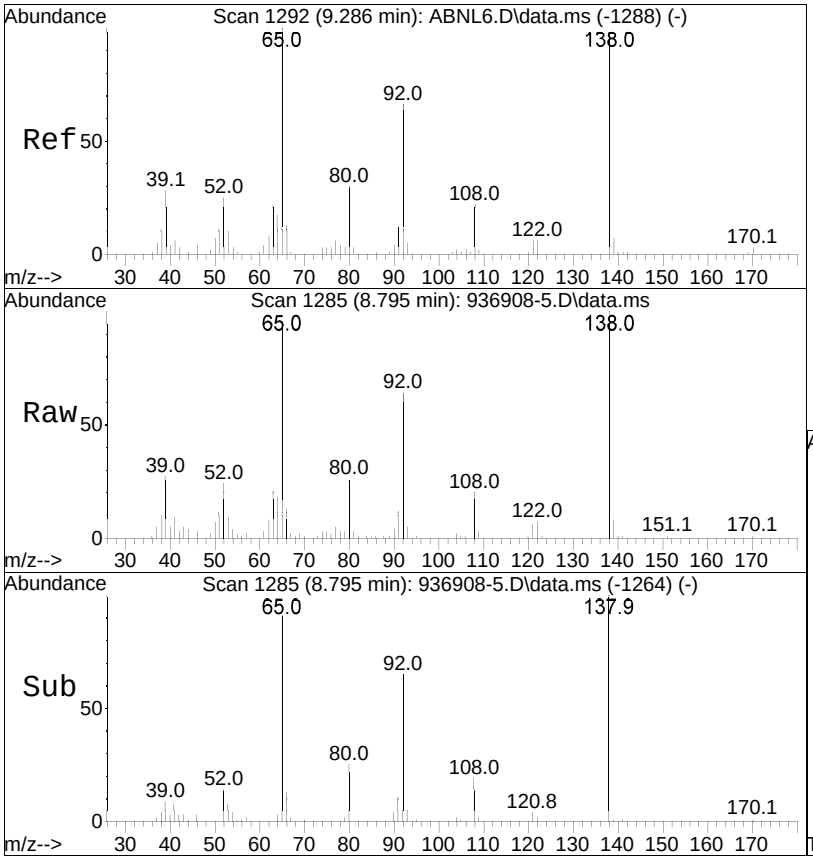


#44
2,4,5-Trichlorophenol
Concen: 0.30 ug/ml
RT: 8.531 min Scan# 1240
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:196 Resp: 4739

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	93.4	78.0	117.0

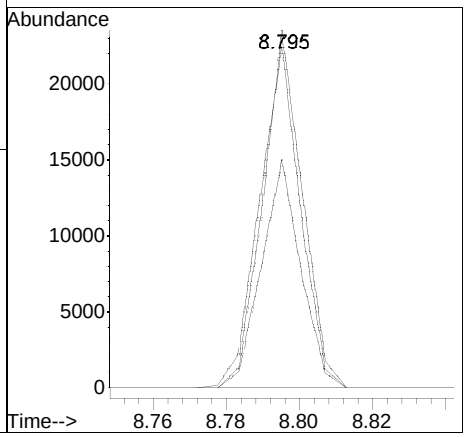


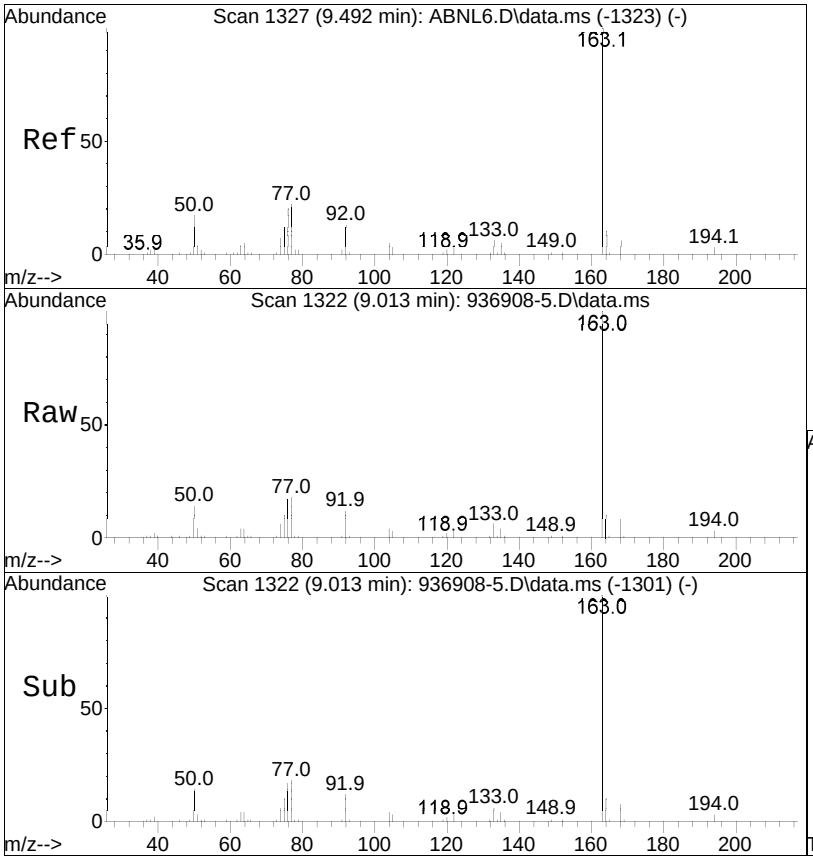


#47
2-Nitroaniline
Concen: 1.58 ug/ml
RT: 8.795 min Scan# 1285
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:138 Resp: 17463

Ion	Ratio	Lower	Upper
138	100		
92	63.6	53.5	80.3
65	98.5	86.3	129.5

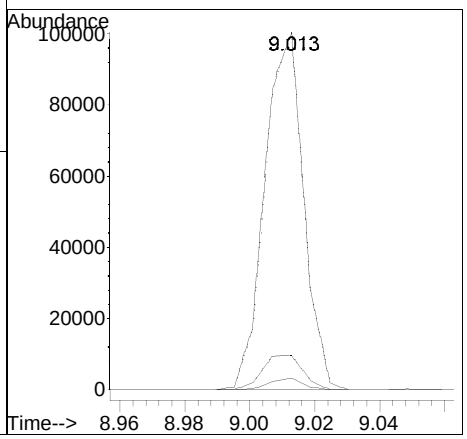


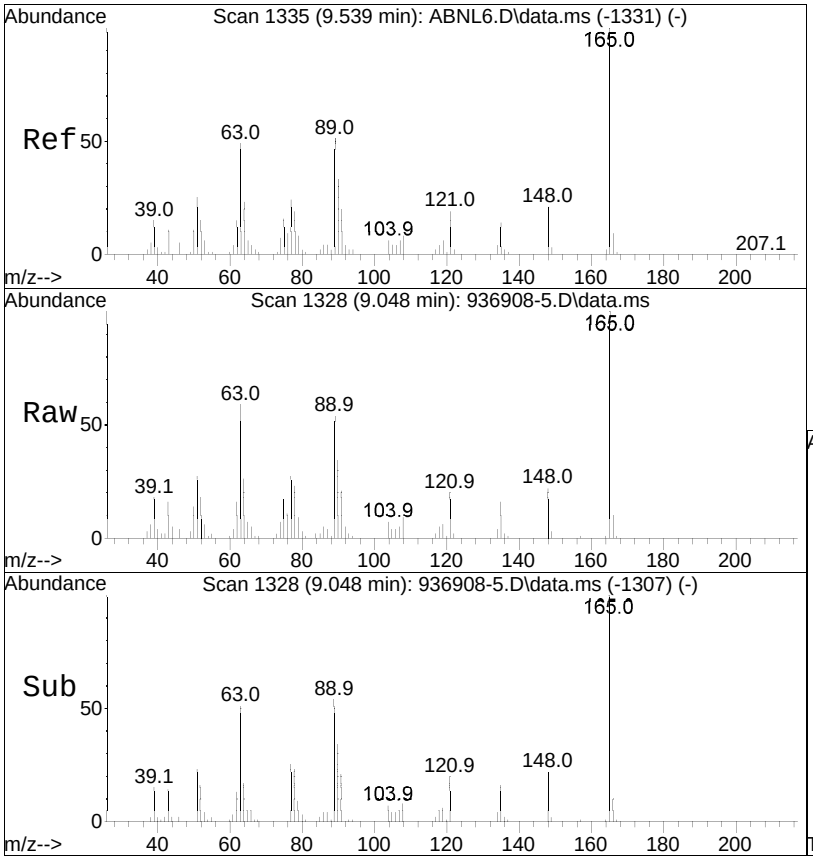


#50
Dimethyl phthalate
Concen: 1.54 ug/ml
RT: 9.013 min Scan# 1322
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:163 Resp: 82175

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.4	7.9	11.9

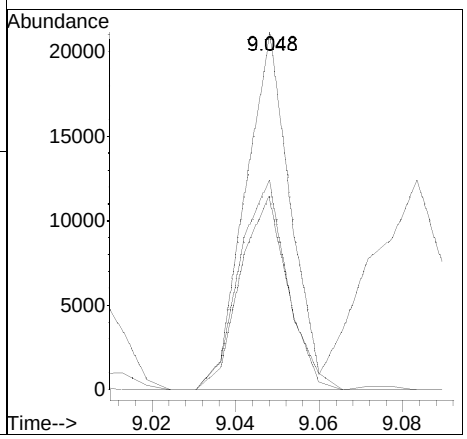


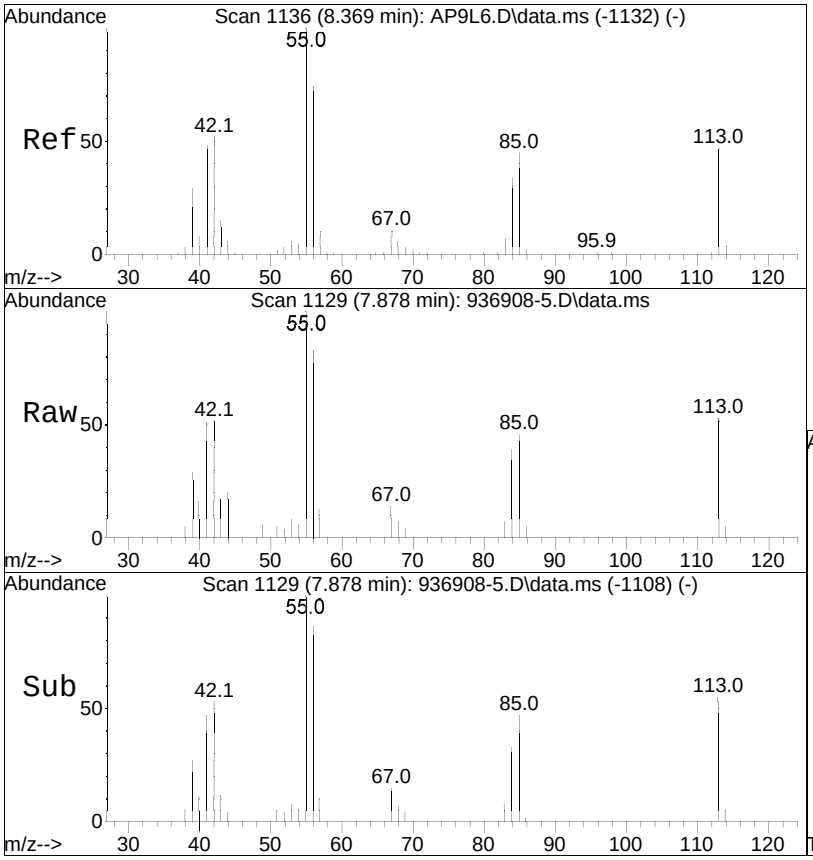


#52
2,6-Dinitrotoluene
Concen: 1.62 ug/ml
RT: 9.048 min Scan# 1328
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:165 Resp: 15787

Ion	Ratio	Lower	Upper
165	100		
89	58.2	54.2	81.2
63	63.0	64.2	96.2#

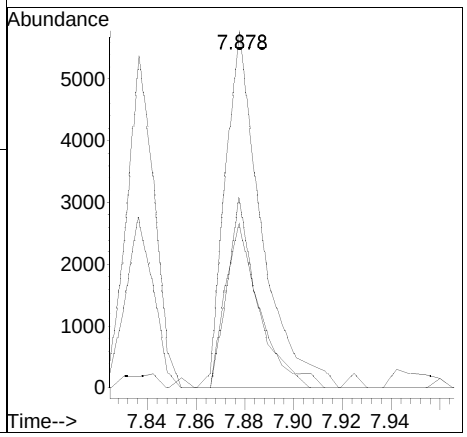


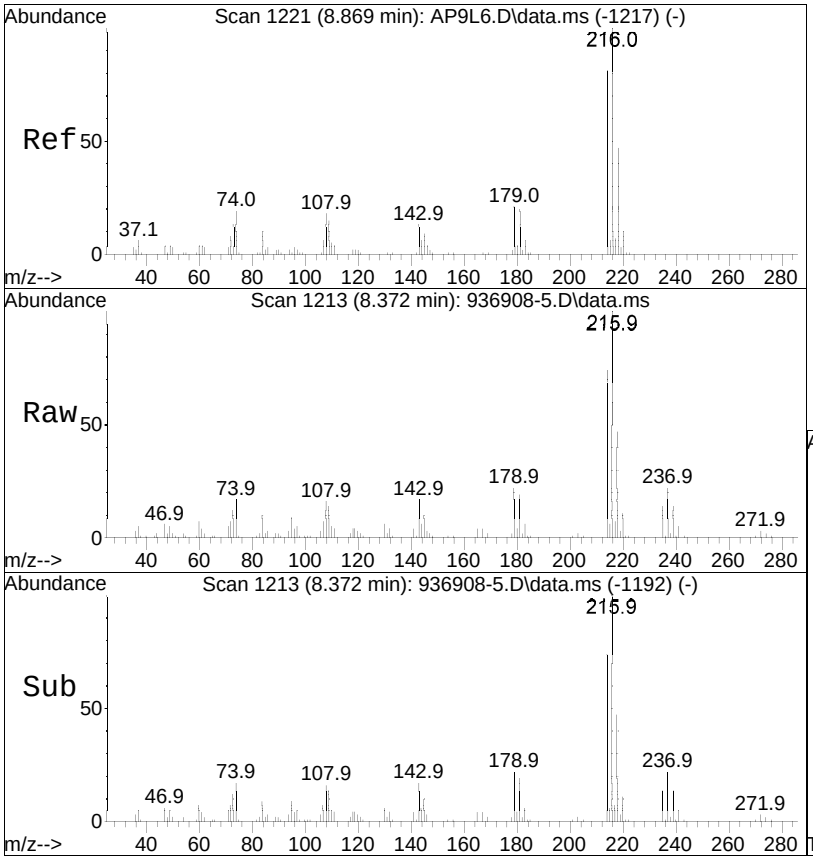


#59
Caprolactam
Concen: 0.64 ug/ml
RT: 7.878 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 55 Resp: 6055

Ion	Ratio	Lower	Upper
55	100		
85	43.7	19.8	29.6#
113	43.5	29.6	44.4

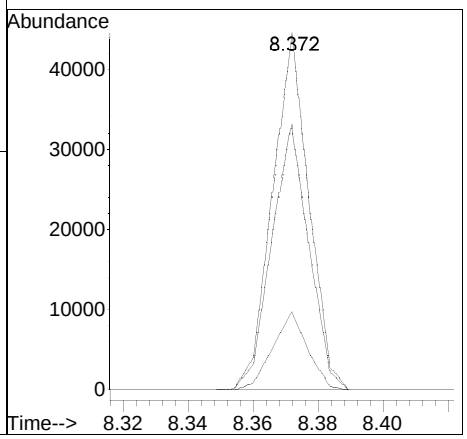


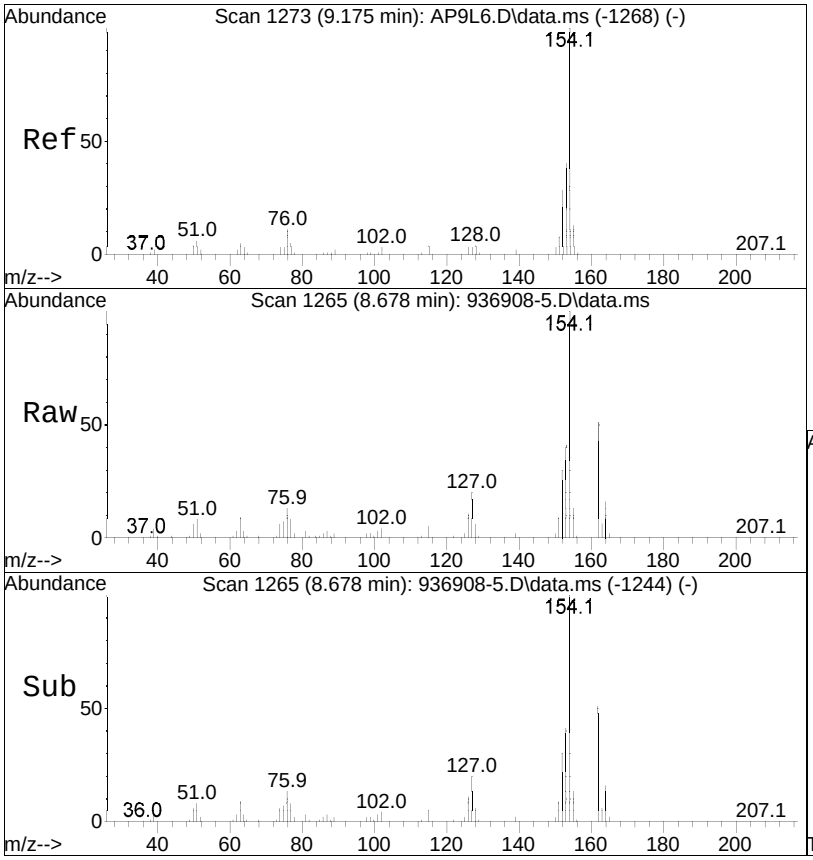


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.34 ug/ml
RT: 8.372 min Scan# 1213
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:216 Resp: 34458

Ion	Ratio	Lower	Upper
216	100		
214	76.3	63.7	95.5
179	21.1	19.0	28.6

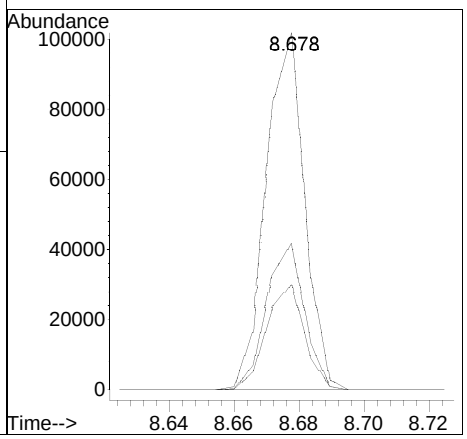


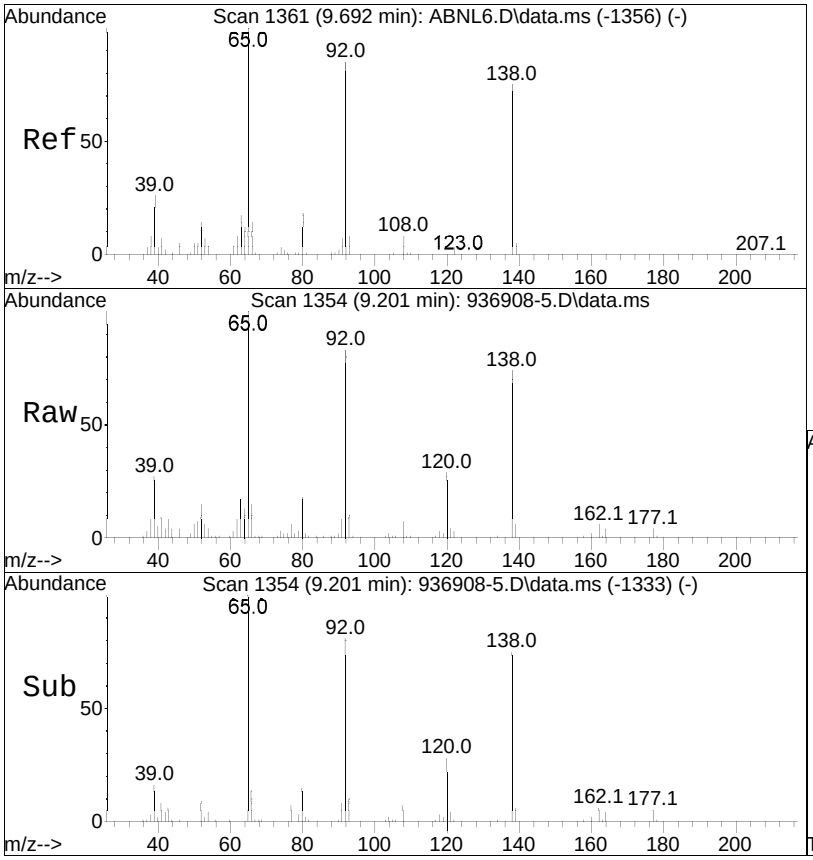


#61
Biphenyl
Concen: 1.41 ug/ml
RT: 8.678 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:154 Resp: 83485

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	29.3	22.5	33.7

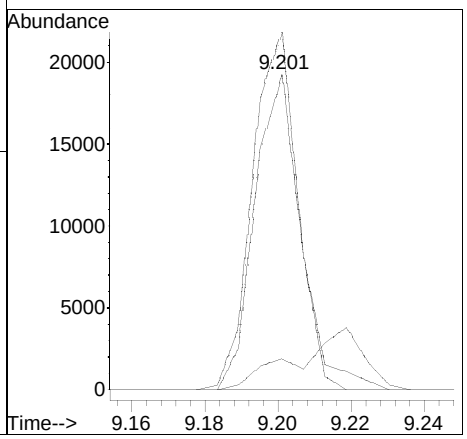


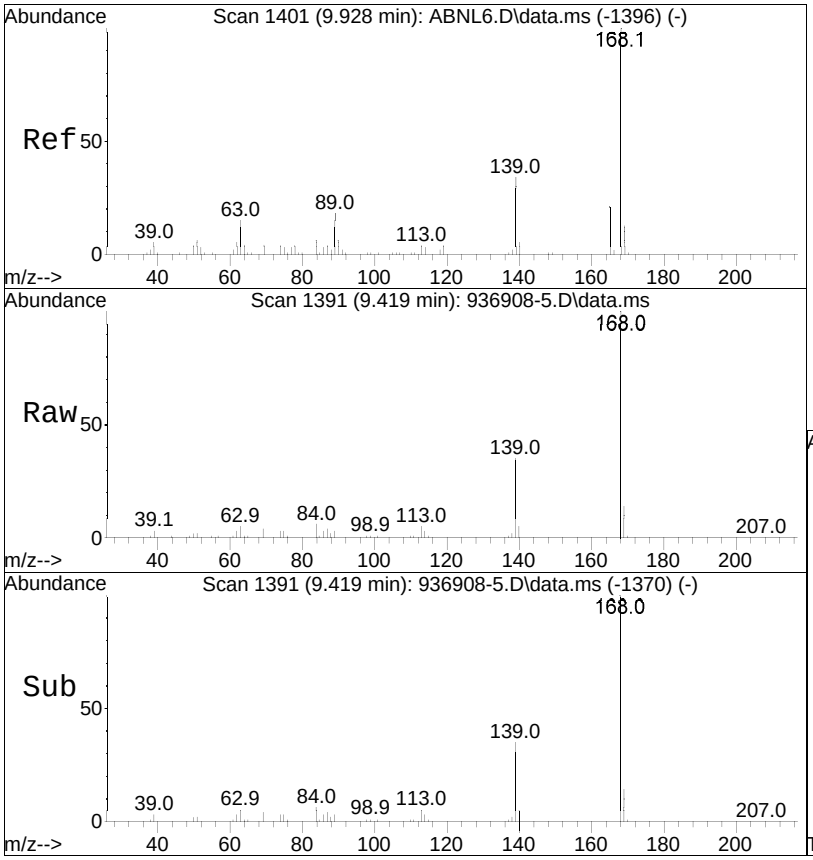


#63
3-Nitroaniline
Concen: 1.61 ug/ml
RT: 9.201 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:138 Resp: 15999

Ion	Ratio	Lower	Upper
138	100		
92	121.5	93.4	140.2
108	29.9	9.5	14.3#

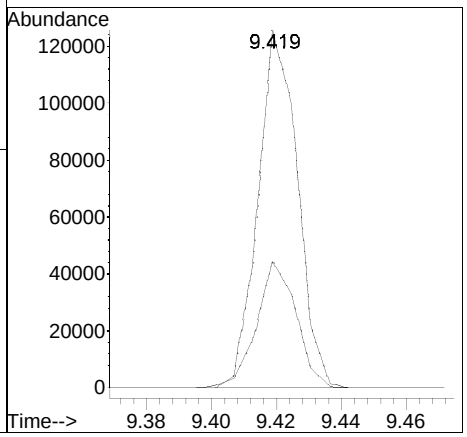


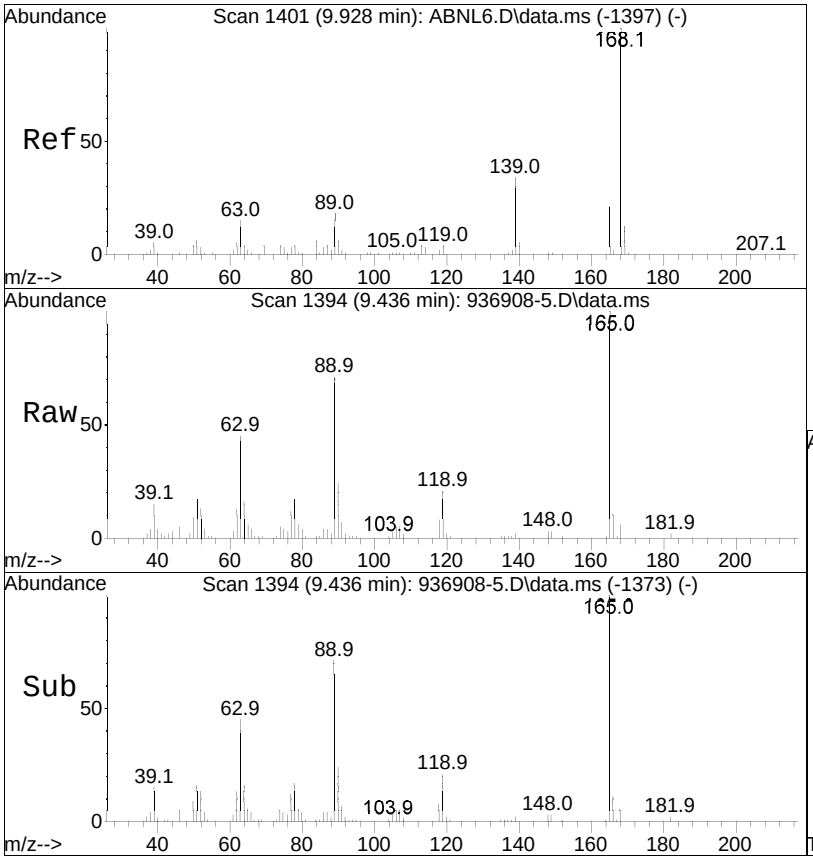


#66
Dibenzofuran
Concen: 1.55 ug/ml
RT: 9.419 min Scan# 1391
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:168 Resp: 104577

Ion	Ratio	Lower	Upper
168	100		
139	35.7	31.4	47.2

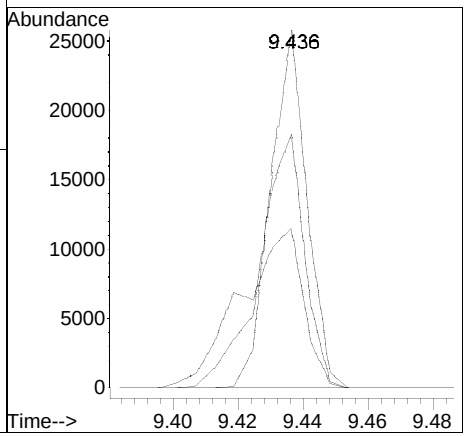


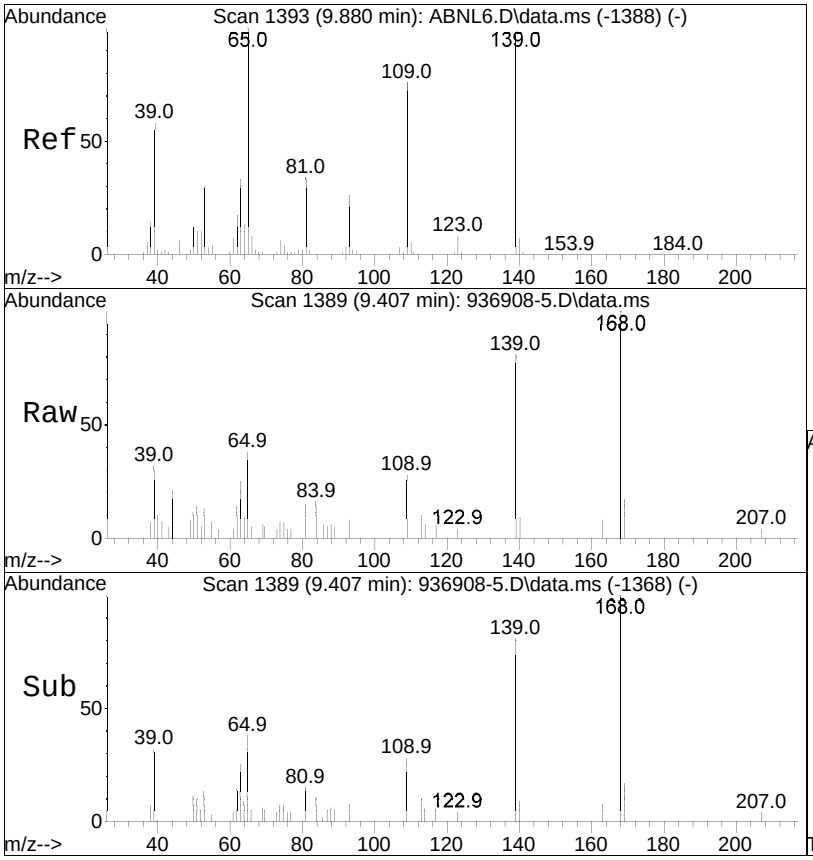


#67
2,4-Dinitrotoluene
Concen: 1.62 ug/ml
RT: 9.436 min Scan# 1394
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:165 Resp: 19831

Ion	Ratio	Lower	Upper
165	100		
89	88.2	72.0	108.0
63	77.1	52.7	79.1

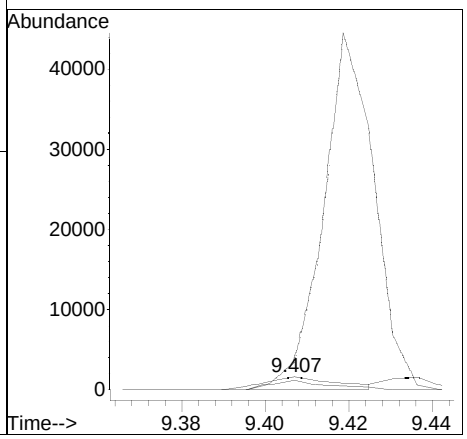


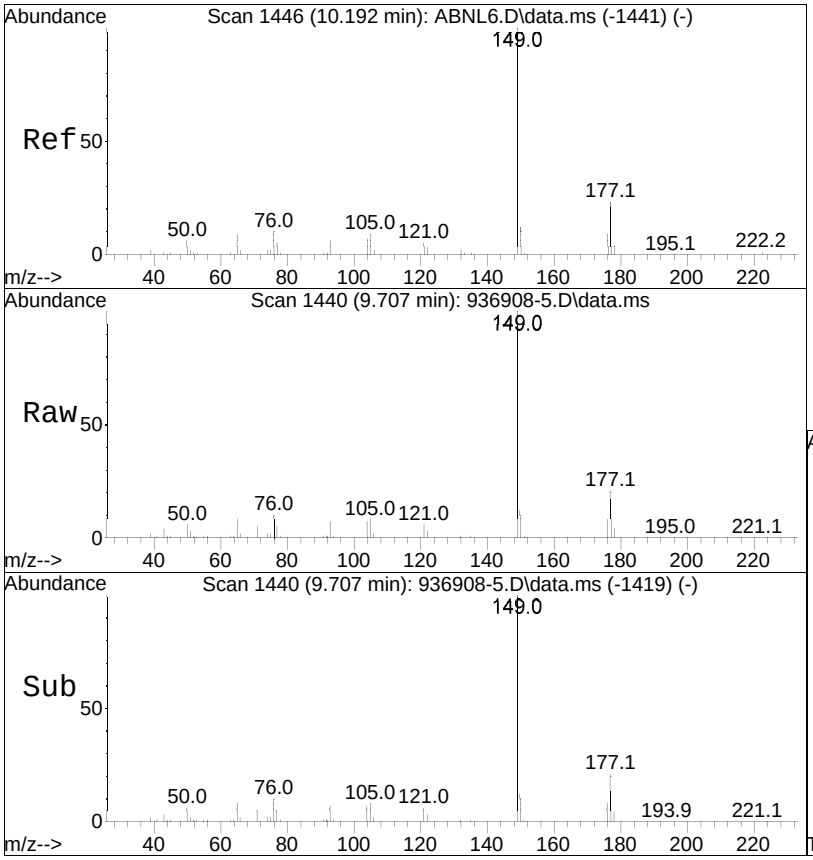


#68
4-Nitrophenol
Concen: 0.24 ug/ml
RT: 9.407 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion: 65 Resp: 2022

Ion	Ratio	Lower	Upper
65	100		
109	55.5	47.4	71.2
139	1846.9	76.6	115.0#

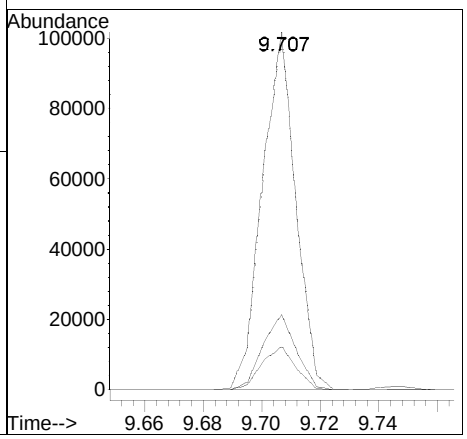


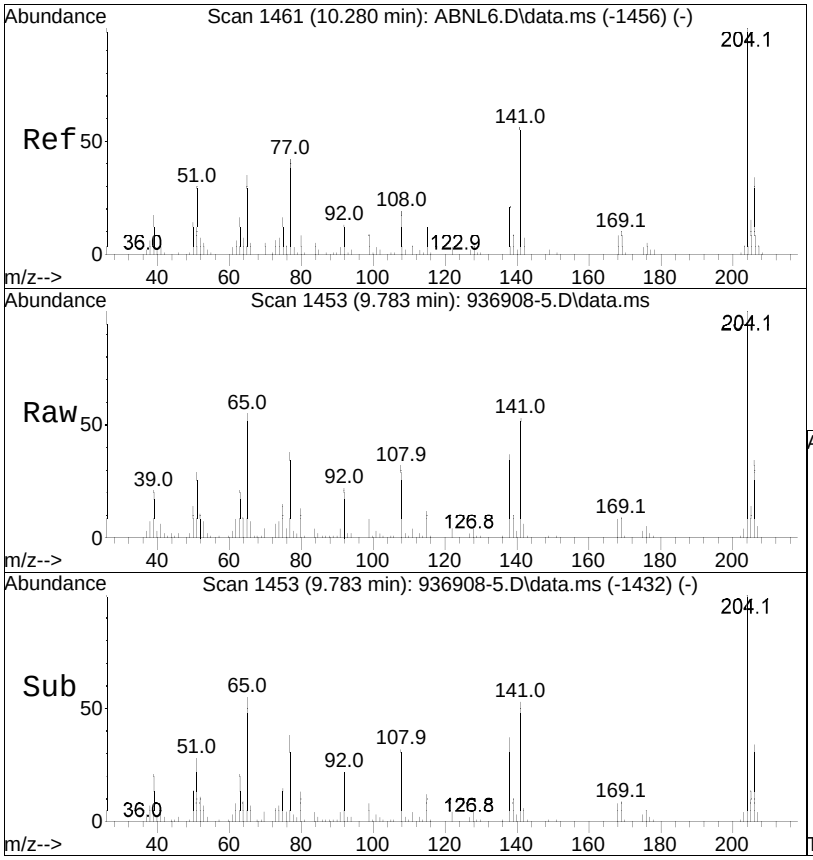


#71
Diethyl phthalate
Concen: 1.60 ug/ml
RT: 9.707 min Scan# 1440
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:149 Resp: 79682

Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.1	24.1
150	12.5	9.4	14.2

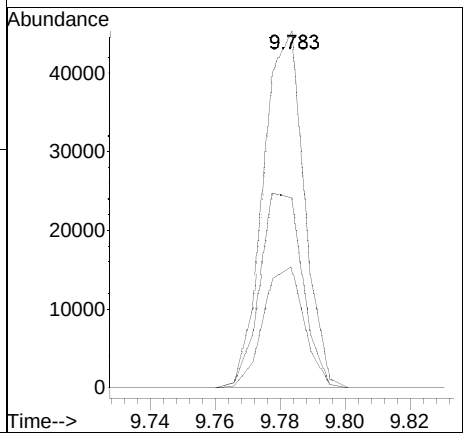


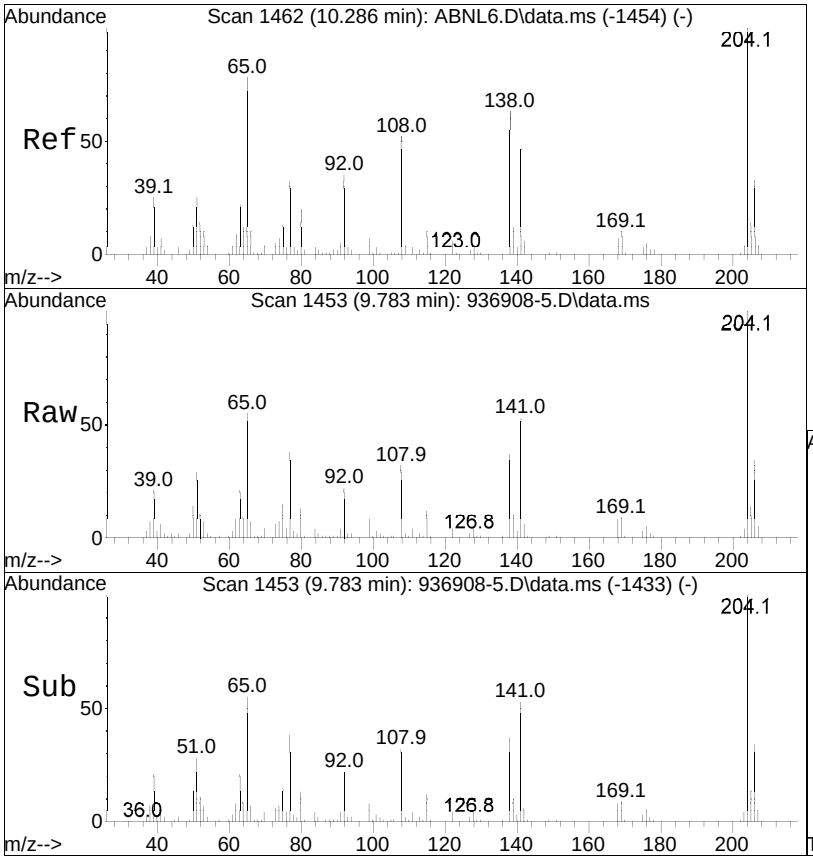


#73
4-Chlorophenyl phenyl ether
Concen: 1.53 ug/ml
RT: 9.783 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:204 Resp: 39370

Ion	Ratio	Lower	Upper
204	100		
206	34.2	25.8	38.6
141	57.0	53.6	80.4

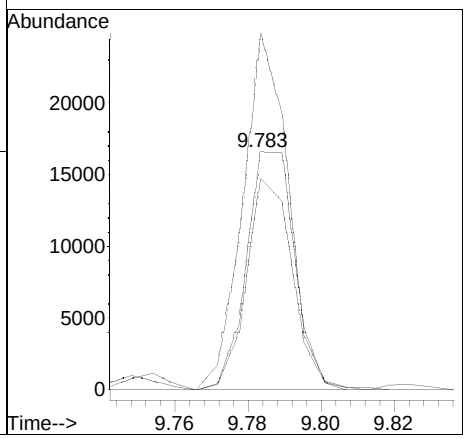


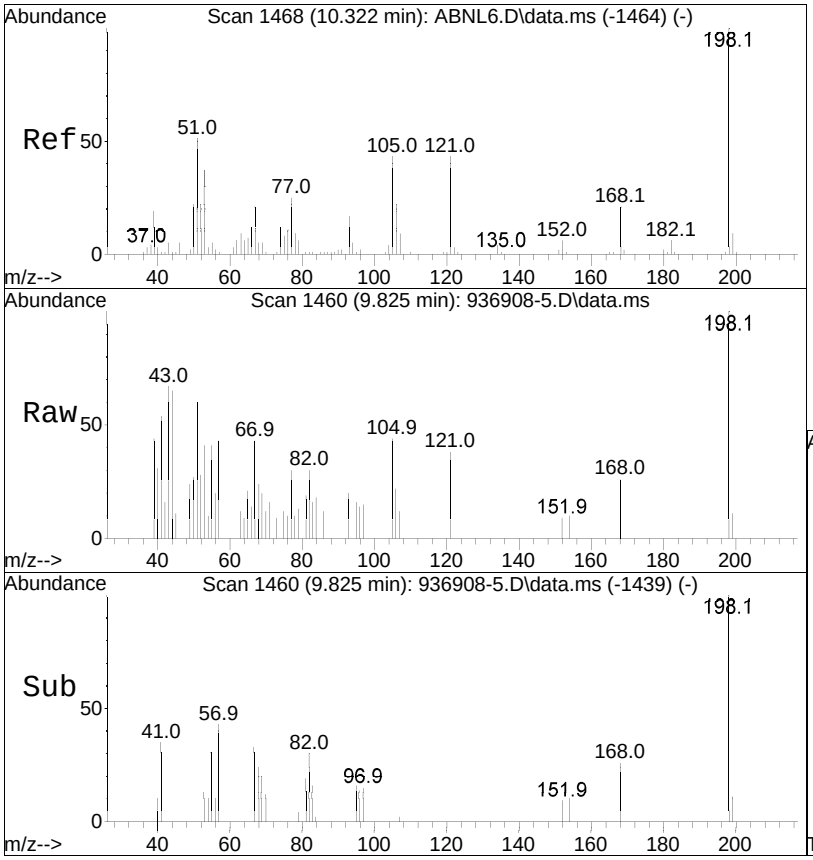


#74
4-Nitroaniline
Concen: 1.51 ug/ml
RT: 9.783 min Scan# 1453
Delta R.T. -0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:138 Resp: 15196

Ion	Ratio	Lower	Upper
138	100		
108	84.6	52.1	78.1#
65	140.6	115.0	172.6

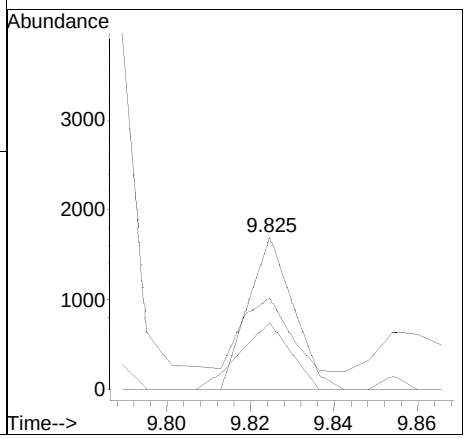


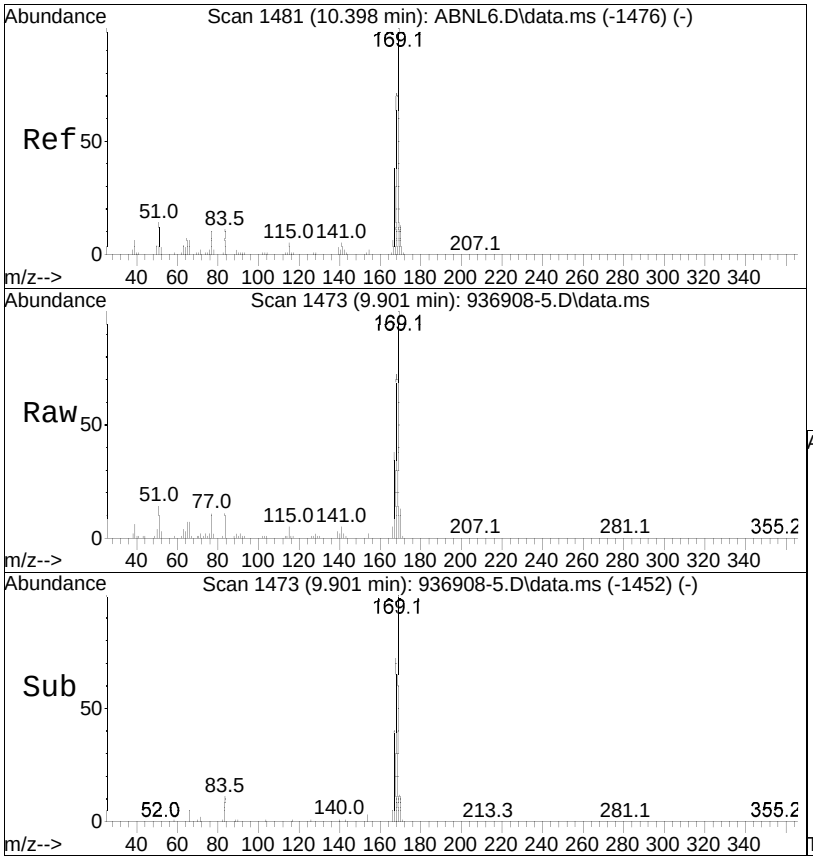


#75
4,6-Dinitro-o-cresol
Concen: 0.70 ug/ml
RT: 9.825 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:198 Resp: 1276

Ion	Ratio	Lower	Upper
198	100		
51	49.3	76.0	114.0#
105	49.1	45.6	68.4

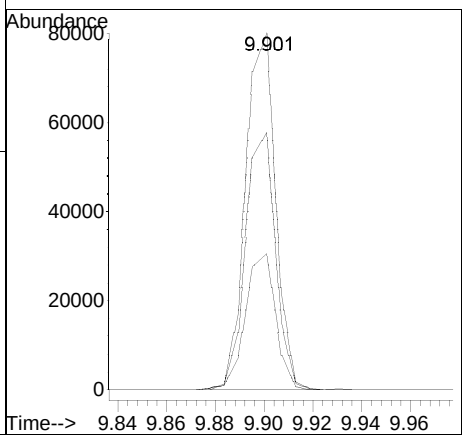


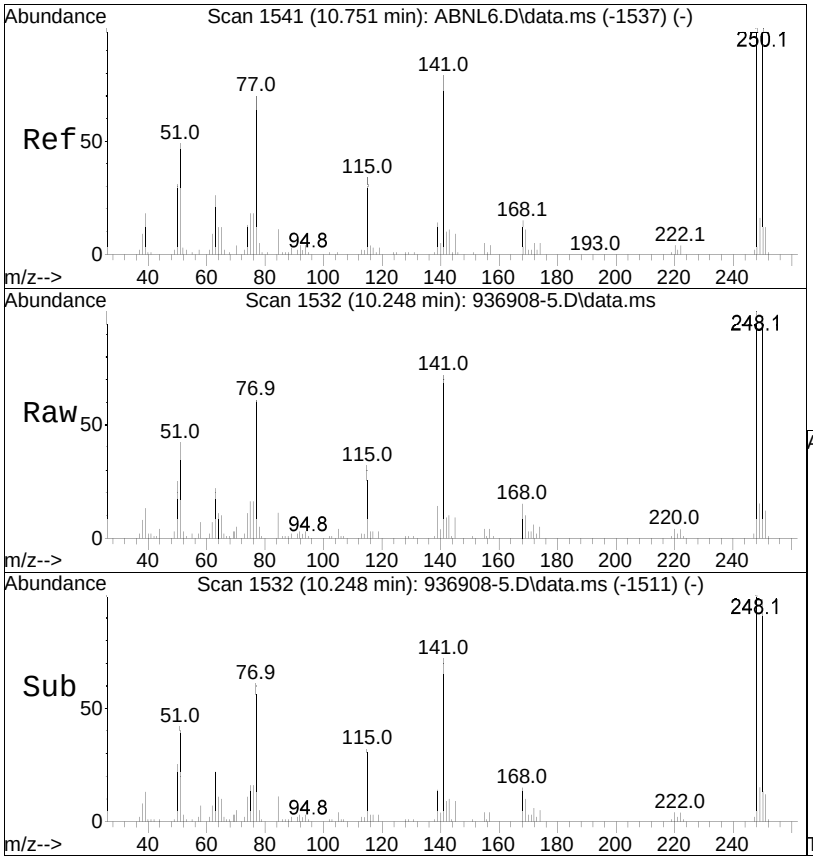


#76
NDPA/DPA
Concen: 1.57 ug/ml
RT: 9.901 min Scan# 1473
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:169 Resp: 68244

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	38.9	28.6	42.8

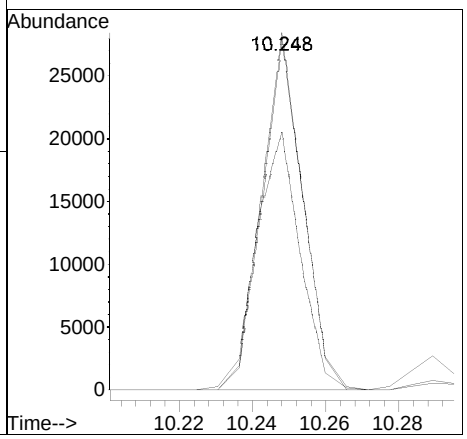


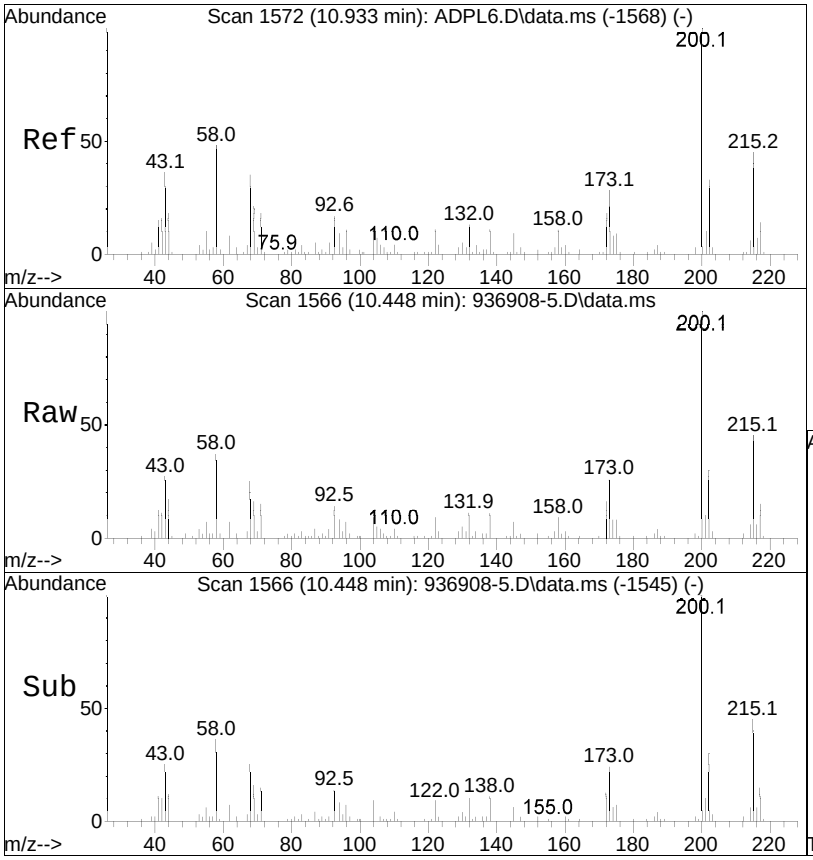


#79
4-Bromophenyl phenyl ether
Concen: 1.52 ug/ml
RT: 10.248 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:248 Resp: 21989

Ion	Ratio	Lower	Upper
248	100		
141	77.1	76.6	114.8
250	97.7	77.3	115.9

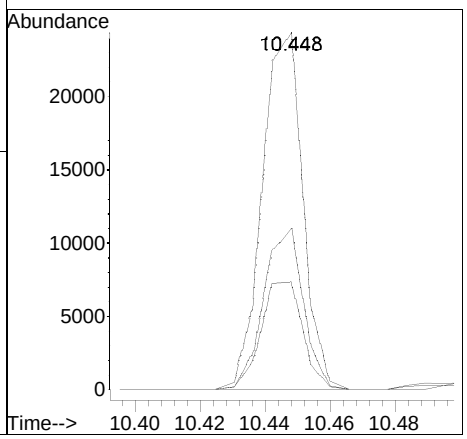


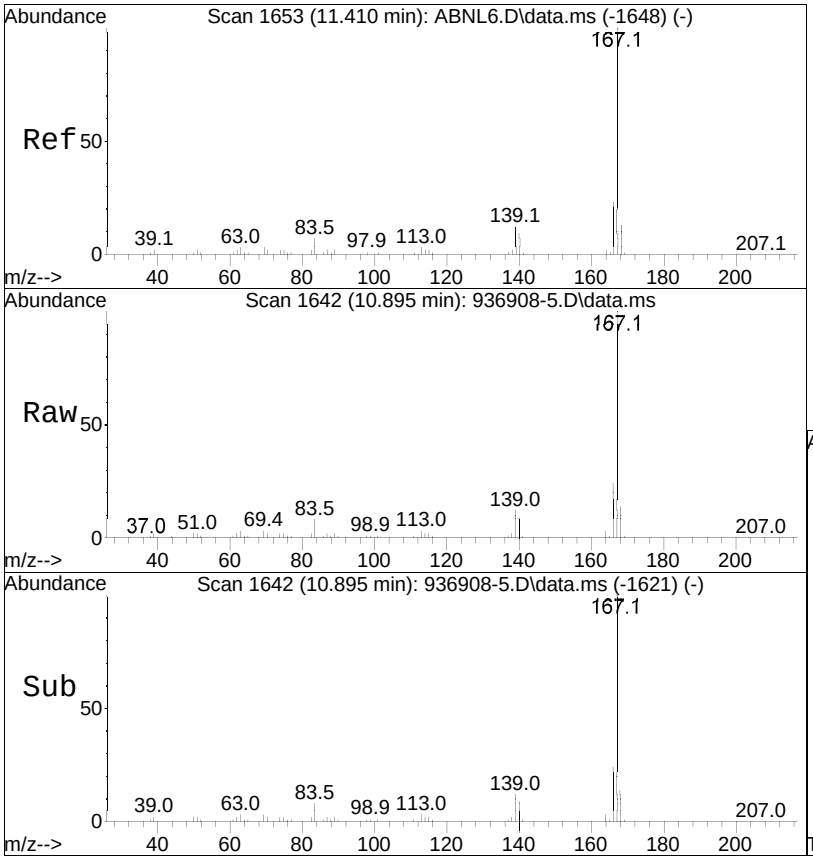


#86
Atrazine
Concen: 1.57 ug/ml
RT: 10.448 min Scan# 1566
Delta R.T. -0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:200 Resp: 20925

Ion	Ratio	Lower	Upper
200	100		
202	31.5	25.8	38.6
215	44.4	40.2	60.4

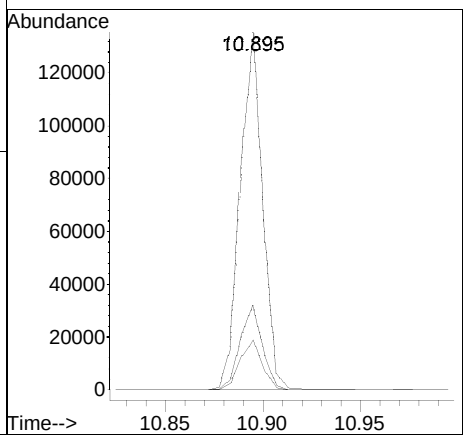


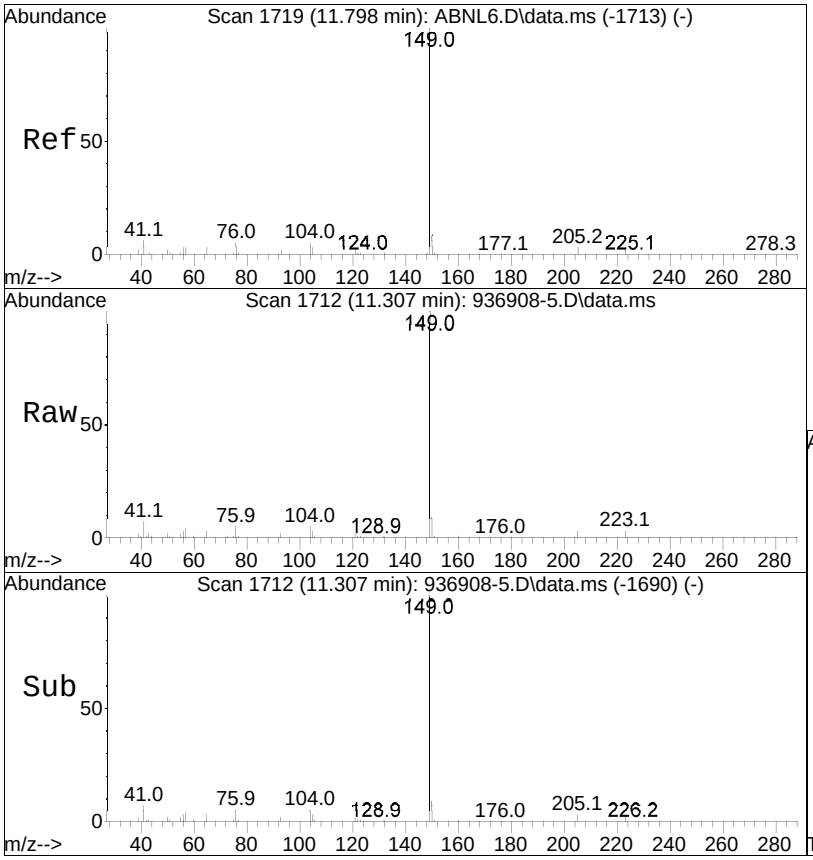


#90
Carbazole
Concen: 1.48 ug/ml
RT: 10.895 min Scan# 1642
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:167 Resp: 107133

Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	23.6	17.4	26.0

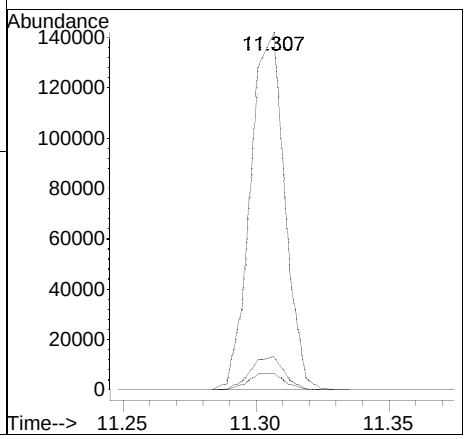


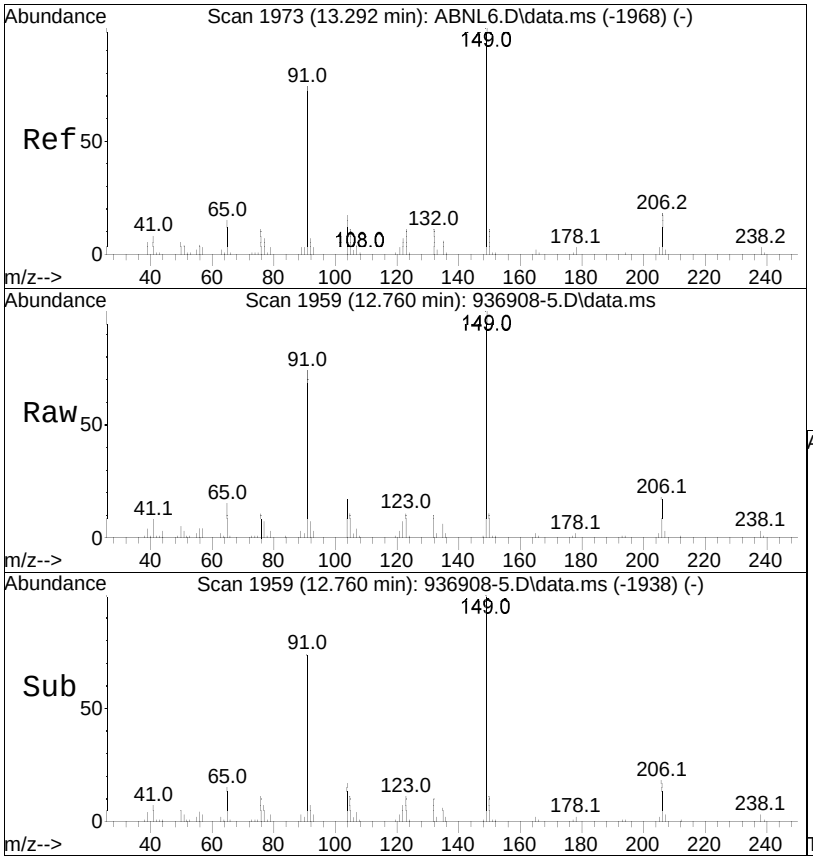


#91
Di-n-butylphthalate
Concen: 1.48 ug/ml
RT: 11.307 min Scan# 1712
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:149 Resp: 126007

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.0	4.5	6.7

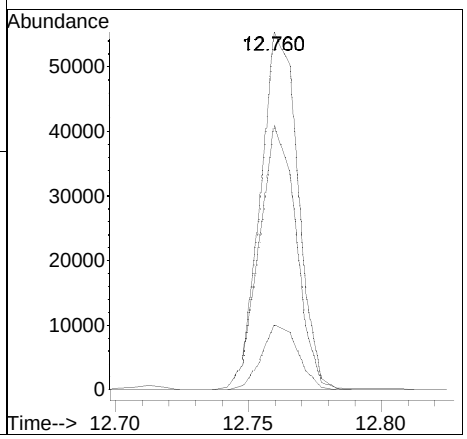


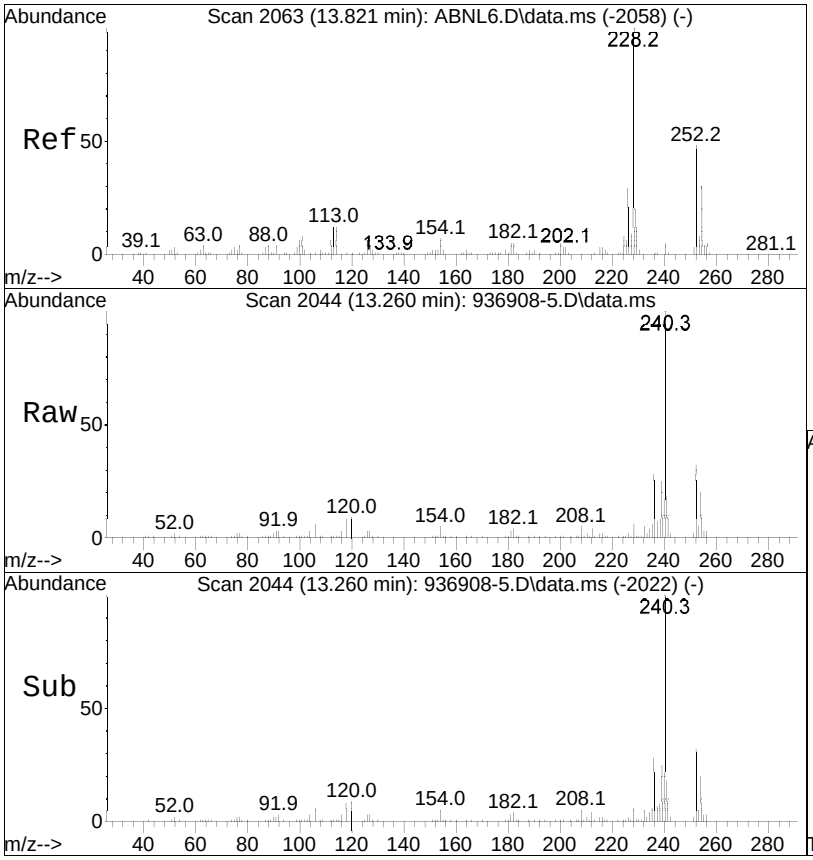


#96
Butyl benzyl phthalate
Concen: 1.63 ug/ml
RT: 12.760 min Scan# 1959
Delta R.T. 0.000 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:149 Resp: 53838

Ion	Ratio	Lower	Upper
149	100		
91	73.7	63.3	94.9
206	17.7	13.9	20.9

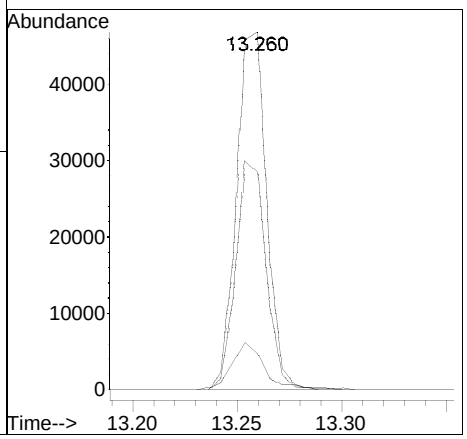


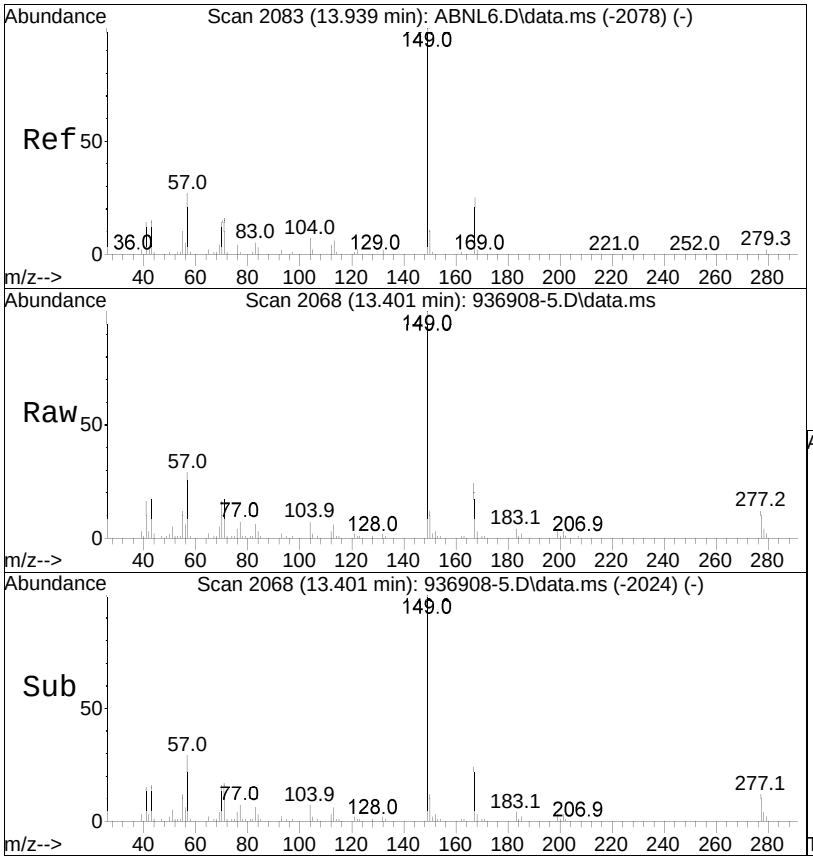


#105
3,3'-Dichlorobenzidine
Concen: 1.69 ug/ml
RT: 13.260 min Scan# 2044
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:252 Resp: 46774

Ion	Ratio	Lower	Upper
252	100		
126	14.4	14.5	21.7#
254	64.2	51.2	76.8

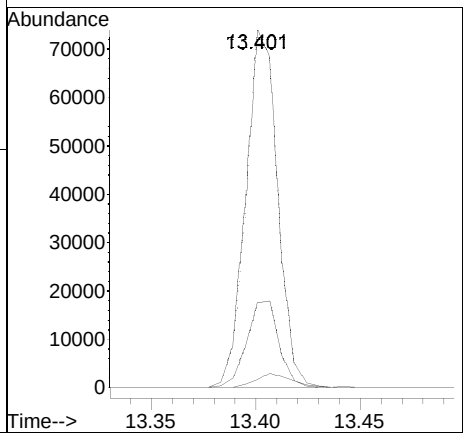


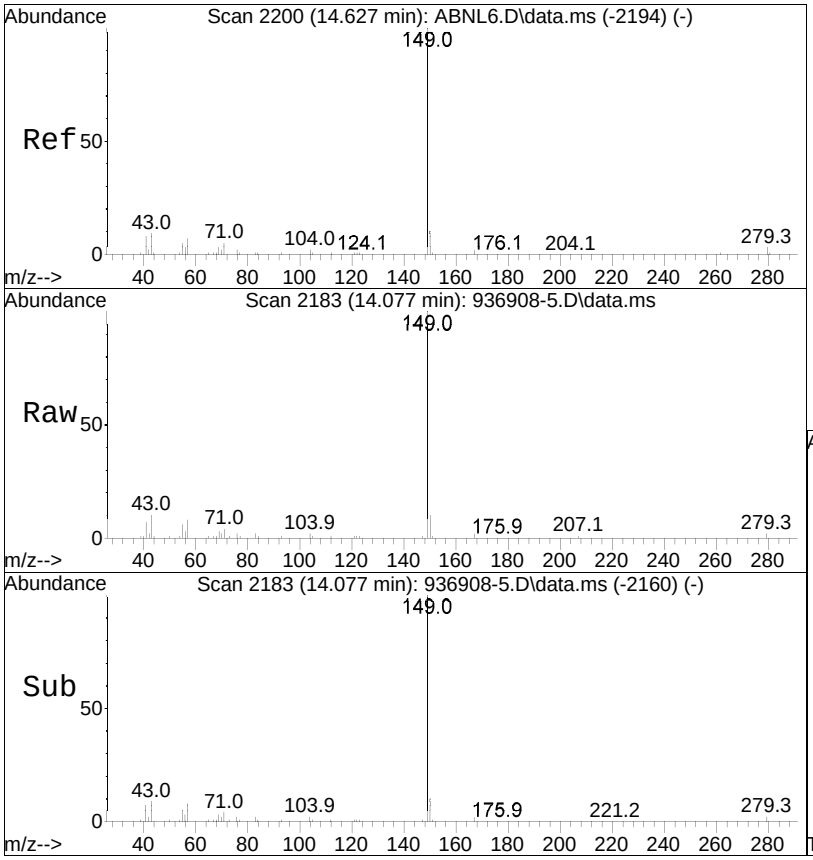


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.53 ug/ml
RT: 13.401 min Scan# 2068
Delta R.T. 0.006 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:149 Resp: 77545

Ion	Ratio	Lower	Upper
149	100		
167	24.5	22.1	33.1
279	4.2	3.0	4.4

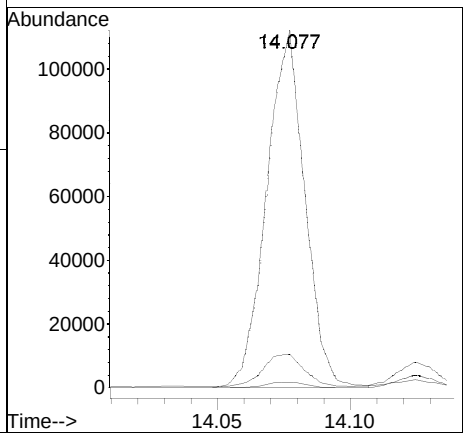




#108
Di-n-octylphthalate
Concen: 1.55 ug/ml
RT: 14.077 min Scan# 2183
Delta R.T. 0.012 min
Lab File: 936908-5.D
Acq: 21 Jun 2024 10:52 am

Tgt Ion:149 Resp: 110971

Ion	Ratio	Lower	Upper
149	100		
43	9.7	18.8	28.2#
167	1.6	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\SV107\240620NRVT\	QMethod	: FS240602SV107RVT.m
Data File	: 936908-5.D	Operator	: SV107:sz
Date Inj'd	: 6/21/2024 10:52 am	Instrument	: SV107
Sample	: WG1936908-5,32,,ASK	Quant Date	: 6/21/2024 11:12 am

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 24 2024, 10:27 am

Work Group: WG1936733 for Department: 2 Organic Preparation

Created: 19-JUN-24 Due: Operator: YDA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2431203-02	GW-4_20240605	C	NYTCL-8270-RVT	WATER	DONE	U	0612	0619	S0	Amber-A.1
L2433375-01	EB_06132024	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-02	DUP_06132024	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-05	MW-12S	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-06	MW-12D	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-07	MW-4S	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-08	MW-4D2	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433453-01	SMP-MW-9	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-01	MW3R	C	8270TCL-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-02	MW6	C	8270TCL-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-03	MW4	C	8270TCL-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-04	MW5	C	8270TCL-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-05	MW9	C	8270TCL-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-06	MW1R	C	8270TCL-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-10	EQUIPMENT BLANK	C	8270TCL-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
WG1936733-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1936733-1	Laboratory Method Bl	S	8270TCL-RVT	WATER	DONE	U				
WG1936733-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1936733-2	Laboratory Control S	S	8270TCL-RVT	WATER	DONE	U				
WG1936733-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1936733-3	LCS Duplicate	S	8270TCL-RVT	WATER	DONE	U				

Comments:

WG1936733-3 WG1936733-2

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 24 2024, 10:27 am

Work Group: WG1936908 for Department: 2 Organic Preparation

Created: 20-JUN-24 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-03	PZ-5	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-04	MW-5D	C	NYTCL-8270-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
WG1936908-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1936908-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1936908-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1936908-4	Matrix Spike	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1936908-5	Matrix Spike Duplica	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1936908-3	WG1936908-2
WG1936908-4	L2433375-04
WG1936908-5	L2433375-04

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV107\240602ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/2/2024 7:09 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 106	WG1929644,,ical	6/2/2024 7:34 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 106	WG1929644,,ical	6/2/2024 7:59 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 106	WG1929644,,ical	6/2/2024 8:24 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1069	WG1929644,,ical	6/2/2024 8:50 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1929644,,ical	6/2/2024 9:15 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1069	WG1929644,,ical	6/2/2024 9:40 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1929644,,ical	6/2/2024 10:05 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1929644,,ical	6/2/2024 10:30 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1929644,,ical	6/2/2024 10:56 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1929644,,ical	6/2/2024 11:21 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1929644,,ical	6/2/2024 11:47 pm
13	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1929644,,ical	6/3/2024 12:12 am
14	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1070	WG1929644,,ical	6/3/2024 12:37 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1929644,,ical	6/3/2024 1:08 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1070	WG1929644,,ical	6/3/2024 1:33 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1929644,,ical	6/3/2024 1:58 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1929644,,ical	6/3/2024 2:23 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1929644,,ical	6/3/2024 2:49 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1929644,,ical	6/3/2024 3:14 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1929644,,ical	6/3/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/3/2024 4:04 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1929644,,ical	6/3/2024 4:29 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1929644,,ical	6/3/2024 4:54 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1929644,,ical	6/3/2024 5:19 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1071	WG1929644,,ical	6/3/2024 5:45 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1929644,,ical	6/3/2024 6:10 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1071	WG1929644,,ical	6/3/2024 6:35 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1929644,,ical	6/3/2024 7:00 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1929644,,ical	6/3/2024 7:25 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1929644,,ical	6/3/2024 7:50 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1929644,,ical	6/3/2024 8:15 am
33	InstBlnk.D	8270RVT.M	Instrument Blank	wg,,ical	6/3/2024 8:40 am

Printed: 06/04/24 Page: 1

Dep.: GCMS
Inst: **SV107**
Date: **06/20/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1937154**

Vial	Data File	Sample	CCAL	notes	initials
141	DEG0620	wg-1,32,,Degdftpp Lot # 10848			
142	ABN0620	wg-3,32,,ABN 10777 HNY0619A			
143	AP90620	wg-4,32,,AP9 10776 HNY0619A			
144	ADP0620	wg-5,32,,ADP 10751 HNY0619A			
1	936733-1	WG1936733-1,32,,HNY			
2	936733-2	WG1936733-2,32,,HNY			
3	936733-3	WG1936733-3,32,,HNY			
4	31203-02	L2431203-02,32,,RE,HNY			
5	936907-2	WG1936907-2,32,,HNY			
6	936907-3	WG1936907-3,32,,HNY			
7	936907-1	WG1936907-1,32,,HNY			
8	34685-01	L2434685-01,32,,R3A,HNY			
9	33375-01	L2433375-01,32,,HNY			
10	33375-03	L2433375-03,32,,HNY			
11	34685-01	L2434685-01,32,,RV,mrg			
12	33375-05	L2433375-05,32,,HNY			
13	33494-02	L2433494-02,32,,HNY			
14	33494-03	L2433494-03,32,,HNY			
15	33494-04	L2433494-04,32,,HNY			
16	33375-02	L2433375-02,32,,HNY			
17	33375-06	L2433375-06,32,,HNY			
18	33375-07	L2433375-07,32,,HNY			
19	33375-08	L2433375-08,32,,HNY			
20	33453-01	L2433453-01,32,,HNY			
21	33453-02	L2433453-02,32,,HNY			
22	33494-01	L2433494-01,32,,HNY			
23	33494-05	L2433494-05,32,,HNY			
24	33494-06	L2433494-06,32,,HNY			

Dep.: GCMS
Inst: **SV107**
Date: **06/20/24**
Run: **Night Run**

Method
GC: 8270 FSLVI

Seq: **WG1937320**

Vial	Data File	Sample	CCAL	notes	initials
141	DEG0620n	wg-1,32,,Degdftpp Lot # 10848			
142	ABN0620n	wg-3,32,,ABN LVI CCV Lot # 10526			
143	AP90620n	wg-4,32,,AP9 LVI CCV Lot # 10340			
144	ADP0620n	wg-5,32,,ADP LVI CCV Lot # 10751			
1	936803-1	WG1936803-1,32,,ASK			
2	936803-2	WG1936803-2,32,,ASK			
3	936803-3	WG1936803-3,32,,ASK			
4	936908-1	WG1936908-1,32,,ASK			
5	936908-2	WG1936908-2,32,,ASK			
6	936908-3	WG1936908-3,32,,ASK			
7	936777-1	WG1936777-1,32,,ASK			
8	936777-2	WG1936777-2,32,,ASK			
9	936777-3	WG1936777-3,32,,ASK			
10	33247-02	L2433247-02,32,,ASK			
11	33453-03	L2433453-03,32,,ASK			
12	33270-03	L2433270-03,32,,ASK			
13	33471-01	L2433471-01,32,,ASK			
14	33471-02	L2433471-02,32,,ASK			
15	33471-03	L2433471-03,32,,ASK			
16	33471-04	L2433471-04,32,,ASK			
17	33471-05	L2433471-05,32,,ASK			
18	936908-4	WG1936908-4,32,,ASK			
19	936908-5	WG1936908-5,32,,ASK			
20	33375-04	L2433375-04,32,,ASK			
21	DCMblank1	FISHER DCM LOT 241701			
22	DCMBlank2	FISHER DCM LOT 241701			
23	DCMblank1a	FISHER DCM LOT 241701			
24	DCMBlank2a	FISHER DCM LOT 241701		HNY – 6/21	

Dep.: GCMS
Inst: **SV107**
Date: **06/21/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1937738**

Vial	Data File	Sample	CCAL	notes	initials
141	DEG0621	wg-1,32,,Degdftpp Lot # 10848			
142	ABN0621	wg-3,32,,ABN 10777 HNY0619A			
143	AP90621	wg-4,32,,AP9 10776 HNY0619A			
144	ADP0621	wg-5,32,,ADP 10751 HNY0619A			
1	937299-1	WG1937299-1,32,,HNY			
2	937299-2	WG1937299-2,32,,HNY			
3	937299-3	WG1937299-3,32,,HNY			
4	34685-01	L2434685-01,32,,R3A,RE,HNY			
5	937468-2	WG1937468-2,32,,HNY			
6	937468-3	WG1937468-3,32,,HNY			
7	937468-1	WG1937468-1,32,,HNY			
8	33863-03	L2433863-03,32,,R3D,HNY			
9	33375-02	L2433375-02,32,,HNY			
10	33375-03	L2433375-03,32,,HNY			
11	33375-05	L2433375-05,32,,HNY			
12	231-03d1	L2433231-03d,32,20,HNY			
13	33231-04	L2433231-04,32,,HNY			
14	33231-05	L2433231-05,32,,HNY			
15	33231-06	L2433231-06,32,,HNY			
16	33328-01	L2433328-01,32,,HNY			
17	33328-02	L2433328-02,32,,HNY			
18	33328-03	L2433328-03,32,,HNY			
19	33328-04	L2433328-04,32,,HNY			
20	33328-05	L2433328-05,32,,HNY			
21	33328-06	L2433328-06,32,,HNY			
22	33328-07	L2433328-07,32,,HNY			
23	33328-08	L2433328-08,32,,HNY			gmr 06/22

ORGANIC ELN REPORT

Workgroup: WG1936733

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN
Spike Verify by: YDA
Lims Spikelot: 8270-RVT

Lot #: EI560
Lot #: 10808ag,10/31/2024,d1,7,2
Lot #: 10737ad,10/31/2024,10738au,0

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2431203-02 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433270-03 SAMP	06/20/24 03:08	Annabella Sarfo	100	<2,>12	.1					
L2433375-01 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433375-02 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433375-03 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433375-05 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H

Reported: 24-JUN-24 10:27 AM

ORGANIC ELN REPORT

Workgroup: WG1936733

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2433375-06 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433375-07 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433375-08 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433453-01 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433453-02 SAMP	06/20/24 00:05	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-01 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-02 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433494-03 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433494-04 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433494-05 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Kellsey Geikie	1	H

Reported: 24-JUN-24 10:27 AM

ORGANIC ELN REPORT

Workgroup: WG1936733

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433494-06 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Kellsey Geikie	1	H
L2433494-07	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Kellsey Geikie	1	H
L2433494-08	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Kellsey Geikie	1	H
L2433494-10 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Kellsey Geikie	1	H
WG1936733-1 BLANK	06/19/24 21:40 **WG1936734**	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
WG1936733-2 LCS	06/19/24 21:40	Yaw Adu	100	<2,>12	.1	.1	06/20/24 07:23	Alaina Ohara-Cruz	1	H
WG1936733-3 LCSD	06/19/24 21:40	Yaw Adu	100	<2,>12	.1	.1	06/20/24 07:23	Alaina Ohara-Cruz	1	H

Reported: 24-JUN-24 10:27 AM

ORGANIC ELN REPORT

Workgroup: WG1936908

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10808AH-103124
Spike Type: ABN **Lot #:** 10737AJ-103124 | 10738BA-08
Spike Verify by: MAD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A050724
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2433375-02 SAMP	06/21/24 01:42	Annabella Sarfo	100	<2, >12	.1		06/21/24 06:48	Alaina Ohara-Cruz	1	H
L2433375-03 SAMP	06/20/24 21:10	Daniel Erhagbai	100	<2, >12	.1		06/21/24 02:40	Alaina Ohara-Cruz	1	H
L2433375-04 SAMP	06/20/24 08:00	Michael Daring	100	<2, >12	.1		06/20/24 12:36	Kellsey Geikie	1	H
L2433375-05 SAMP	06/21/24 01:42	Annabella Sarfo	100	<2, >12	.1		06/21/24 06:48	Alaina Ohara-Cruz	1	H
WG1936908-1 BLANK	06/20/24 08:00 **WG1936909**	Michael Daring	100	<2, >12	.1		06/20/24 12:36	Kellsey Geikie	1	H
WG1936908-2 LCS	06/20/24 08:00 **WG1936909**	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H

Reported: 24-JUN-24 10:27 AM

ORGANIC ELN REPORT

Workgroup: WG1936908

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1936908-3 LCSD	06/20/24 08:00 **WG1936909**	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H
WG1936908-4 MS	06/20/24 08:00	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H
WG1936908-5 MSD	06/20/24 08:00	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H

Reported: 24-JUN-24 10:27 AM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433375
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
EB_06132024 (L2433375-01)	38	28	95	65	61	72	0
DUP_06132024 (L2433375-02)	5*	11	87	64	7*	66	2
PZ-5 (L2433375-03)	27	25	82	80	28	86	0
MW-5D (L2433375-04)	17*	24	90	68	24	68	1
MW-12S (L2433375-05)	9*	14	85	58	13	69	1
MW-12D (L2433375-06)	13*	17	88	59	20	67	1
MW-4S (L2433375-07)	25	28	78	54	37	62	0
MW-4D2 (L2433375-08)	22	31	98	64	30	80	0
WG1936734-1BLANK	20*	27	84	61	33	71	1
WG1936734-2LCS	44	41	91	67	69	79	0
WG1936734-3LCSD	50	37	82	61	76	67	0
WG1936909-1BLANK	46	36	85	64	57	68	0
WG1936909-2LCS	41	35	86	64	52	63	0
WG1936909-3LCSD	36	31	83	63	49	65	0
MW-5DMS	25	27	91	67	33	65	0
MW-5DMSD	12*	17	95	72	17	71	1

QC LIMITS

(21-120)	2FP = 2-FLUOROPHENOL
(10-120)	PHL = PHENOL-D6
(23-120)	NBZ = NITROBENZENE-D5
(15-120)	FBP = 2-FLUOROBIPHENYL
(10-120)	TBP = 2,4,6-TRIBROMOPHENOL
(41-149)	TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936734-2 **Analysis Date** : 06/20/24 13:19	**File ID**	: 936734-2
LCSD Sample ID	: WG1936734-3 **Analysis Date** : 06/20/24 13:36	**File ID**	: 936734-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	13	67	20	12	61	9	40-140	40
2-Chloronaphthalene	20	11	55	20	10	53	4	40-140	40
Fluoranthene	20	16	80	20	14	71	12	40-140	40
Hexachlorobutadiene	20	8.8	44	20	8.8	44	0	40-140	40
Naphthalene	20	12	58	20	11	55	5	40-140	40
Benzo(a)anthracene	20	15	77	20	14	68	12	40-140	40
Benzo(a)pyrene	20	17	85	20	15	76	11	40-140	40
Benzo(b)fluoranthene	20	16	81	20	15	77	5	40-140	40
Benzo(k)fluoranthene	20	16	80	20	14	68	16	40-140	40
Chrysene	20	16	80	20	15	73	9	40-140	40
Acenaphthylene	20	13	65	20	12	61	6	40-140	40
Anthracene	20	15	75	20	14	68	10	40-140	40
Benzo(ghi)perylene	20	17	84	20	14	72	15	40-140	40
Fluorene	20	14	68	20	12	62	9	40-140	40
Phenanthrene	20	14	70	20	13	64	9	40-140	40
Dibenzo(a,h)anthracene	20	17	87	20	15	76	13	40-140	40
Indeno(1,2,3-cd)pyrene	20	18	91	20	16	79	14	40-140	40
Pyrene	20	16	80	20	14	69	15	40-140	40
2-Methylnaphthalene	20	12	62	20	12	59	5	40-140	40
Pentachlorophenol	20	8.4	42	20	13	65	43 Q	40-140	40
Hexachlorobenzene	20	11	57	20	11	53	7	40-140	40
Hexachloroethane	20	11	54	20	10	51	6	40-140	40
Bis(2-chloroethyl)ether	20	15	76	20	14	70	8	40-140	40

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936909-2 **Analysis Date** : 06/20/24 20:54	**File ID**	: 936909-2
LCSD Sample ID	: WG1936909-3 **Analysis Date** : 06/20/24 21:10	**File ID**	: 936909-3

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Acenaphthene	20	14	69		20	14	69		0	40-140	40
2-Chloronaphthalene	20	12	60		20	12	60		0	40-140	40
Fluoranthene	20	14	68		20	14	70		3	40-140	40
Hexachlorobutadiene	20	10	50		20	10	50		0	40-140	40
Naphthalene	20	13	64		20	12	62		3	40-140	40
Benzo(a)anthracene	20	14	68		20	14	70		3	40-140	40
Benzo(a)pyrene	20	15	77		20	16	79		3	40-140	40
Benzo(b)fluoranthene	20	15	74		20	14	72		3	40-140	40
Benzo(k)fluoranthene	20	13	66		20	14	73		10	40-140	40
Chrysene	20	14	70		20	14	73		4	40-140	40
Acenaphthylene	20	13	66		20	13	65		2	40-140	40
Anthracene	20	14	70		20	14	72		3	40-140	40
Benzo(ghi)perylene	20	17	83		20	17	85		2	40-140	40
Fluorene	20	13	67		20	14	68		1	40-140	40
Phenanthrene	20	13	65		20	13	67		3	40-140	40
Dibenzo(a,h)anthracene	20	17	85		20	17	87		2	40-140	40
Indeno(1,2,3-cd)pyrene	20	18	90		20	18	90		0	40-140	40
Pyrene	20	13	67		20	14	69		3	40-140	40
2-Methylnaphthalene	20	14	68		20	13	67		1	40-140	40
Pentachlorophenol	20	6.3	32	Q	20	5.6	28	Q	13	40-140	40
Hexachlorobenzene	20	12	59		20	12	60		2	40-140	40
Hexachloroethane	20	12	60		20	12	58		3	40-140	40
Bis(2-chloroethyl)ether	20	15	75		20	14	71		5	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 22:14
Matrix Spike	: WG1936909-4	**MS Analysis Date**	: 06/20/24 21:42
Matrix Spike Dup	: WG1936909-5	**MSD Analysis Date**	: 06/20/24 21:58

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	20	14	70		20	16	80		13	40-140	40
2-Chloronaphthalene	ND	20	13	65		20	14	70		7	40-140	40
Fluoranthene	ND	20	14	70		20	16	80		13	40-140	40
Hexachlorobutadiene	ND	20	11	55		20	11	55		0	40-140	40
Naphthalene	0.09J	20	14	70		20	14	70		0	40-140	40
Benzo(a)anthracene	ND	20	14	70		20	16	80		13	40-140	40
Benzo(a)pyrene	ND	20	16	80		20	18	90		12	40-140	40
Benzo(b)fluoranthene	ND	20	14	70		20	16	80		13	40-140	40
Benzo(k)fluoranthene	ND	20	15	75		20	17	85		13	40-140	40
Chrysene	ND	20	15	75		20	16	80		6	40-140	40
Acenaphthylene	ND	20	14	70		20	15	75		7	40-140	40
Anthracene	ND	20	14	70		20	16	80		13	40-140	40
Benzo(ghi)perylene	ND	20	17	85		20	19	95		11	40-140	40
Fluorene	ND	20	14	70		20	15	75		7	40-140	40
Phenanthrene	ND	20	13	65		20	15	75		14	40-140	40
Dibenzo(a,h)anthracene	ND	20	18	90		20	20	100		11	40-140	40
Indeno(1,2,3-cd)pyrene	ND	20	19	95		20	20	100		5	40-140	40
Pyrene	ND	20	14	70		20	15	75		7	40-140	40
2-Methylnaphthalene	0.05J	20	15	75		20	15	75		0	40-140	40
Pentachlorophenol	ND	20	2.6	13	Q	20	1.7	9	Q	42 Q	40-140	40
Hexachlorobenzene	ND	20	12	60		20	14	70		15	40-140	40
Hexachloroethane	ND	20	13	65		20	13	65		0	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 22:14
Matrix Spike	: WG1936909-4	**MS Analysis Date**	: 06/20/24 21:42
Matrix Spike Dup	: WG1936909-5	**MSD Analysis Date**	: 06/20/24 21:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bis(2-chloroethyl)ether	ND	20	16	80	20	17	85	6	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936734-1	**Lab File ID**	: 936734-1
Instrument ID	: SV125	**Extraction Date**	: 06/19/24
Matrix	: WATER	**Analysis Date**	: 06/20/24 13:52
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1936734-2LCS	WG1936734-2	06/20/24 13:19
WG1936734-3LCSD	WG1936734-3	06/20/24 13:36
EB_06132024	L2433375-01	06/20/24 16:50
MW-12S	L2433375-05	06/20/24 17:23
DUP_06132024	L2433375-02	06/20/24 19:49
MW-12D	L2433375-06	06/20/24 20:05
MW-4S	L2433375-07	06/20/24 20:21
MW-4D2	L2433375-08	06/20/24 20:38

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936909-1	**Lab File ID**	: 936909-1
Instrument ID	: SV125	**Extraction Date**	: 06/20/24
Matrix	: WATER	**Analysis Date**	: 06/20/24 21:26
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1936909-2LCS	WG1936909-2	06/20/24 20:54
WG1936909-3LCSD	WG1936909-3	06/20/24 21:10
MW-5DMS	WG1936909-4	06/20/24 21:42
MW-5DMSD	WG1936909-5	06/20/24 21:58
MW-5D	L2433375-04	06/20/24 22:14
PZ-5	L2433375-03	06/21/24 11:56

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 02/23/24 14:09
Tune Standard	: R1798746-1	**Tune File ID**	: Tune_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	61.1
68	Less than 2.0% of mass 69	1 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	59.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 60.0% of Base Peak	24.4
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	82.8
443	15.0 - 24.0% of mass 442	15.2 (18.3)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1798746-3	IL10	02/23/24 14:31
IL9	R1798746-9	IL9	02/23/24 14:47
IL8	R1798746-10	IL8	02/23/24 15:03
IL7	R1798746-11	IL7	02/23/24 15:19
IL6	R1798746-8	IL6	02/23/24 15:35
IL5	R1798746-7	IL5	02/23/24 15:51
IL4	R1798746-6	IL4	02/23/24 16:07
IL3	R1798746-5	IL3	02/23/24 16:23
IL2	R1798746-4	IL2	02/23/24 16:40
IL1	R1798746-2	IL1	02/23/24 16:56
ICV Quant Report	R1798746-12	ICV	02/23/24 17:12

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 06/20/24 10:46
Tune Standard	: WG1937057-1	**Tune File ID**	: deg0620a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.5
68	Less than 2.0% of mass 69	0.7 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	50.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 60.0% of Base Peak	25.4
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.6
442	Base Peak, or >50% of mass 198	86.1
443	15.0 - 24.0% of mass 442	17 (19.7)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1937057-4TFACTOR-B	WG1937057-4	DEG0620A	06/20/24 10:46
WG1937057-5TFACTOR-P	WG1937057-5	DEG0620A	06/20/24 10:46
WG1937057-3CCAL	WG1937057-3	CCV0620	06/20/24 11:08
WG1936734-2LCS	WG1936734-2	936734-2	06/20/24 13:19
WG1936734-3LCSD	WG1936734-3	936734-3	06/20/24 13:36
WG1936734-1BLANK	WG1936734-1	936734-1	06/20/24 13:52
EB_06132024	L2433375-01	33375-01	06/20/24 16:50
MW-12S	L2433375-05	33375-05	06/20/24 17:23
DUP_06132024	L2433375-02	33375-02	06/20/24 19:49
MW-12D	L2433375-06	33375-06	06/20/24 20:05
MW-4S	L2433375-07	33375-07	06/20/24 20:21
MW-4D2	L2433375-08	33375-08	06/20/24 20:38
WG1936909-2LCS	WG1936909-2	936909-2	06/20/24 20:54
WG1936909-3LCSD	WG1936909-3	936909-3	06/20/24 21:10
WG1936909-1BLANK	WG1936909-1	936909-1	06/20/24 21:26
WG1936909-4MS	WG1936909-4	936909-4	06/20/24 21:42
WG1936909-5MSD	WG1936909-5	936909-5	06/20/24 21:58
MW-5D	L2433375-04	33375-04	06/20/24 22:14

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 05/21/24 09:54
Tune Standard	: R1834227-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52.6
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	54.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	23.7
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.9
442	Base Peak, or >50% of mass 198	58.5
443	15.0 - 24.0% of mass 442	10.8 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL9	R1834227-12	IL9	05/21/24 10:37
IL8	R1834227-11	IL8	05/21/24 10:53
IL7	R1834227-10	IL7	05/21/24 11:10
IL6	R1834227-9	IL6	05/21/24 11:26
IL5	R1834227-8	IL5	05/21/24 11:42
IL4	R1834227-7	IL4	05/21/24 11:59
IL3	R1834227-6	IL3	05/21/24 12:15
IL2	R1834227-5	IL2	05/21/24 12:32
IL1	R1834227-3	IL1	05/21/24 12:48

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 05/22/24 13:16
Tune Standard	: R1834227-2	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.4
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	51
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.5
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	18.1
442	Base Peak, or >50% of mass 198	79.9
443	15.0 - 24.0% of mass 442	16.3 (20.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10a	R1834227-4	IL10A	05/22/24 13:32
ICV Quant Report	R1834227-13	ICVA	05/22/24 13:49

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/21/24 08:41
Tune Standard	: WG1937540-1	**Tune File ID**	: deg0621_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	43.2
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	51.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.3
275	10.0 - 60.0% of Base Peak	28.3
365	Greater than 1.0% of mass 198	4
441	Present, but less than 24% of mass 442	19.5
442	Base Peak, or >50% of mass 198	94.5
443	15.0 - 24.0% of mass 442	18.3 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1937540-4TFACTOR-B	WG1937540-4	DEG0621	06/21/24 08:41
WG1937540-5TFACTOR-P	WG1937540-5	DEG0621	06/21/24 08:41
WG1937540-3CCAL	WG1937540-3	CCV0621	06/21/24 09:01
PZ-5	L2433375-03	33375-03	06/21/24 11:56

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 06/20/24 11:08:00
Sample No	: WG1937057-3	**Lab File ID**	: CCV0620

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1937057-3	473486	2.09	1820585	2.76	1037750	3.74
Upper Limit	946972	2.59	3641170	3.26	2075500	4.24
Lower Limit	236743	1.59	910293	2.26	518875	3.24
Sample ID						
WG1936734-2 LCS	332895	2.10	1333148	2.77	731544	3.75
WG1936734-3 LCSD	383975	2.10	1482216	2.77	829459	3.75
WG1936734-1 BLANK	360707	2.10	1364733	2.77	758031	3.75
EB_06132024	410112	2.11	1560045	2.77	855618	3.75
MW-12S	418251	2.10	1568843	2.77	861641	3.75
DUP_06132024	418883	2.11	1582869	2.77	881590	3.75
MW-12D	424247	2.10	1607669	2.77	887872	3.75
MW-4S	405145	2.11	1550543	2.77	854480	3.75
MW-4D2	406987	2.10	1548641	2.77	854406	3.75
WG1936909-2 LCS	405796	2.10	1576720	2.77	864970	3.75
WG1936909-3 LCSD	431097	2.11	1658316	2.77	899901	3.75
WG1936909-1 BLANK	432647	2.10	1635133	2.77	909132	3.75
MW-5D MS	420355	2.10	1634141	2.77	895287	3.75
MW-5D MSD	427007	2.11	1645882	2.77	909134	3.75
MW-5D	426626	2.10	1630010	2.77	899722	3.75

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV125	**Analysis Date**	: 06/20/24 11:08:00
Sample No	: WG1937057-3	**Lab File ID**	: CCV0620

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1937057-3	2113663	4.58	1598607	6.15	1571336	7.26
Upper Limit	4227326	5.08	3197214	6.65	3142672	7.76
Lower Limit	1056832	4.08	799304	5.65	785668	6.76
Sample ID						
WG1936734-2 LCS	1552732	4.58	1351993	6.10	1490207	7.21
WG1936734-3 LCSD	1711935	4.58	1416181	6.10	1518775	7.21
WG1936734-1 BLANK	1560210	4.58	1400778	6.10	1464377	7.21
EB_06132024	1663064	4.58	1311384	6.10	1348869	7.20
MW-12S	1700886	4.58	1358220	6.10	1433300	7.20
DUP_06132024	1746679	4.58	1459781	6.10	1560499	7.20
MW-12D	1738639	4.58	1447855	6.10	1533303	7.20
MW-4S	1680765	4.58	1445433	6.10	1535338	7.20
MW-4D2	1666794	4.58	1408125	6.10	1475000	7.20
WG1936909-2 LCS	1716139	4.58	1384600	6.10	1570822	7.20
WG1936909-3 LCSD	1756390	4.58	1414420	6.10	1600902	7.20
WG1936909-1 BLANK	1779551	4.58	1502759	6.09	1537081	7.20
MW-5D MS	1766171	4.59	1400932	6.10	1588150	7.20
MW-5D MSD	1791616	4.59	1405021	6.10	1559390	7.20
MW-5D	1763481	4.58	1496671	6.10	1637732	7.20

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/21/24 09:01:00
Sample No	: WG1937540-3	**Lab File ID**	: CCV0621

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1937540-3	135748	2.20	501106	2.86	287581	3.83
Upper Limit	271496	2.70	1002212	3.36	575162	4.33
Lower Limit	67874	1.70	250553	2.36	143791	3.33
Sample ID						
PZ-5	122816	2.20	482705	2.86	292029	3.84

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/21/24 09:01:00
Sample No	: WG1937540-3	**Lab File ID**	: CCV0621

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1937540-3	591010	4.67	506883	6.23	537417	7.39
Upper Limit	1182020	5.17	1013766	6.73	1074834	7.89
Lower Limit	295505	4.17	253442	5.73	268709	6.89
Sample ID						
PZ-5	585555	4.67	468719	6.20	513041	7.36

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:50
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-01	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:50
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-01	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 19:49
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-02	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 19:49
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-02	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/21/24 11:56
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-03	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/21/24 11:56
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-03	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 22:14
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-04	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	0.09	0.10	0.02	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	0.05	0.10	0.03	J
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 22:14
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-04	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 17:23
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-05	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 17:23
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-05	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:05
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-06	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:05
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-06	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:21
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-07	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:21
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-07	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:38
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-08	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:38
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33375-08	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936734-1	**Date Collected**	: NA
Client ID	: WG1936734-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 13:52
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 936734-1	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	0.04	0.10	0.02	J
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	0.05	0.10	0.02	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.05	0.10	0.02	J
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936734-1	**Date Collected**	: NA
Client ID	: WG1936734-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 13:52
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 936734-1	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936909-1	**Date Collected**	: NA
Client ID	: WG1936909-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 21:26
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 936909-1	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936909-1	**Date Collected**	: NA
Client ID	: WG1936909-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 21:26
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 936909-1	**Analyst**	: JJW
Sample Amount	: 100 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-01.D
Acq On : 20 Jun 2024 04:50 pm
Operator : SV125:jjw
Sample : L2433375-01,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 17:23:19 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.107	152	410112	4000.000	ng/ml	0.01
Standard Area 1 = 473486			Recovery = 86.62%			
9) Naphthalene-d8	2.768	136	1560045	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 85.69%			
18) Acenaphthene-d10	3.746	164	855618	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 82.45%			
23) Phenanthrene-d10	4.583	188	1663064	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 78.68%			
32) Chrysene-d12	6.101	240	1311384	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 82.03%			
37) Perylene-d12	7.201	264	1348869	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 85.84%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.529	112	92303	760.987	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 15.22%			
4) Phenol-d6	1.927	99	77342	550.766	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 11.02%#			
8) Nitrobenzene-d5	2.385	82	107899	948.528	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 37.94%			
14) 2-Fluorobiphenyl	3.370	172	233395	651.534	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 26.06%#			
22) 2,4,6-Tribromophenol	4.192	330	57859	1212.250	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 24.25%			
31) 4-Terphenyl-d14	5.494	244	243415	716.296	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 28.65%#			

Target Compounds				Qvalue
5) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
7) Hexachloroethane	0.000	0	N.D.	
10) Naphthalene	0.000	0	N.D. d	
11) Hexachlorobutadiene	0.000	0	N.D.	
12) 2-Methylnaphthalene	0.000	0	N.D. d	
15) 2-Chloronaphthalene	0.000	0	N.D. d	
17) Acenaphthylene	0.000	0	N.D. d	
19) Acenaphthene	0.000	0	N.D. d	
21) Fluorene	0.000	0	N.D. d	
25) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-01.D
Acq On : 20 Jun 2024 04:50 pm
Operator : SV125:jjw
Sample : L2433375-01,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 17:23:19 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

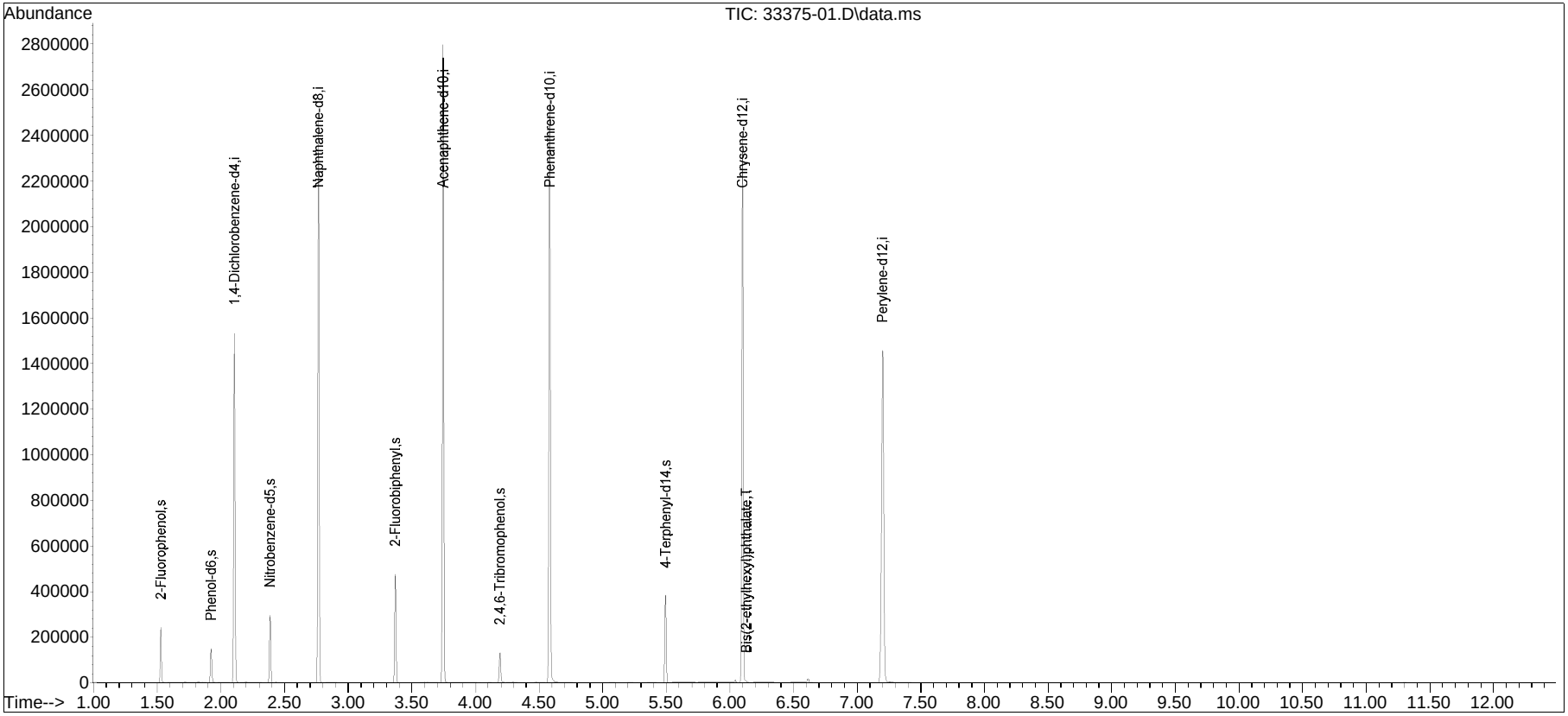
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-01.D
Acq On : 20 Jun 2024 04:50 pm
Operator : SV125:jjw
Sample : L2433375-01,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 17:23:19 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\240620a	RVQMethod	: SIM-RVT_240223_sv125.M
Data File	: 33375-01.D	Operator	: SV125:jjw
Date Inj'd	: 6/20/2024 4:50 pm	Instrument	: SV125
Sample	: L2433375-01,32,,jjw	Quant Date	: 6/20/2024 5:04 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-05.D
Acq On : 20 Jun 2024 05:23 pm
Operator : SV125:jjw
Sample : L2433375-05,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 21 08:45:40 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	418251	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 88.33%			
9) Naphthalene-d8	2.769	136	1568843	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 86.17%			
18) Acenaphthene-d10	3.746	164	861641	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 83.03%			
23) Phenanthrene-d10	4.583	188	1700886	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 80.47%			
32) Chrysene-d12	6.099	240	1358220M1	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 84.96%			
37) Perylene-d12	7.202	264	1433300	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 91.22%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.526	112	21638	174.922	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 3.50%#			
4) Phenol-d6	1.924	99	40544	283.103	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.66%#			
8) Nitrobenzene-d5	2.385	82	98417	848.337	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 33.93%			
14) 2-Fluorobiphenyl	3.370	172	208000	577.386	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 23.10%#			
22) 2,4,6-Tribromophenol	4.192	330	12853	267.411	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.35%#			
31) 4-Terphenyl-d14	5.491	244	240120	690.888	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 27.64%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-05.D
Acq On : 20 Jun 2024 05:23 pm
Operator : SV125:jjw
Sample : L2433375-05,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 21 08:45:40 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

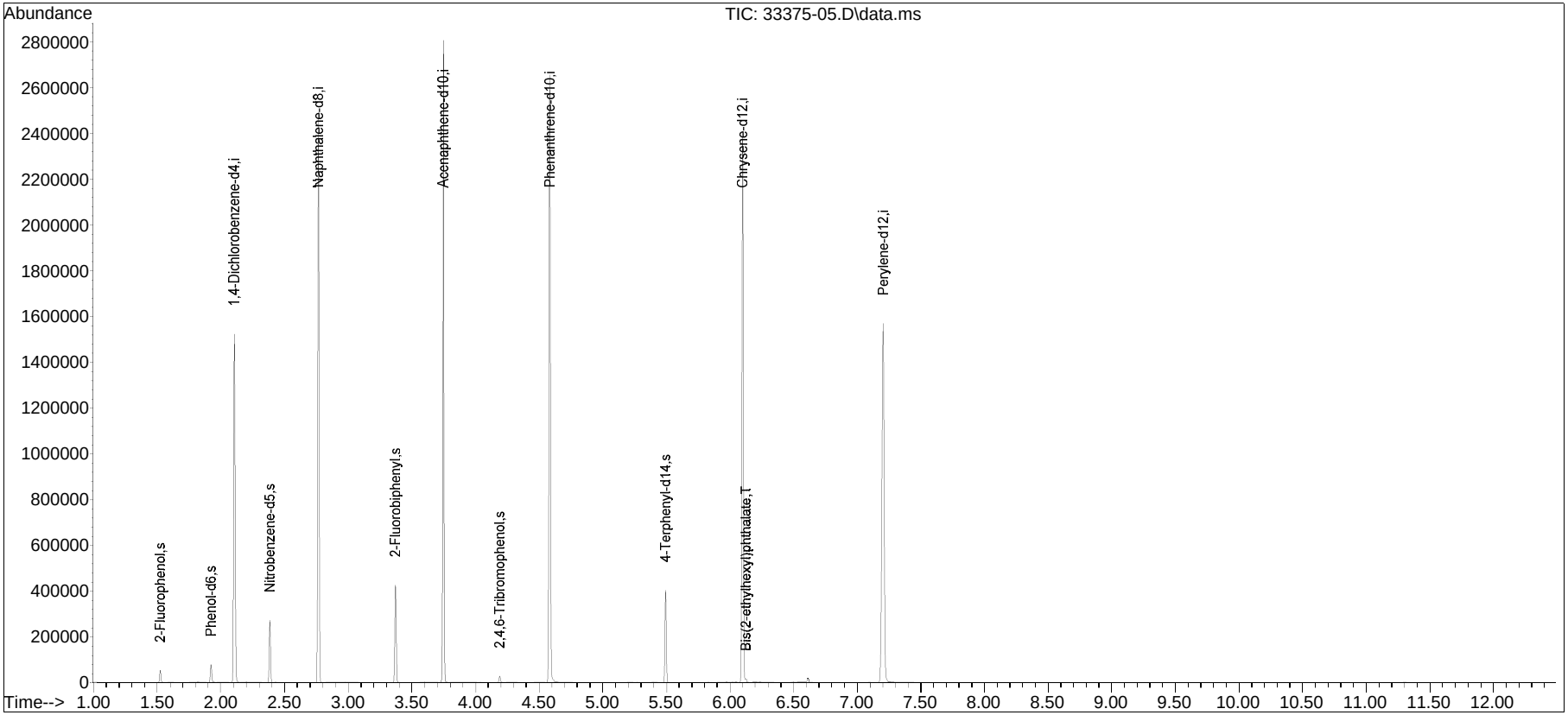
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-05.D
Acq On : 20 Jun 2024 05:23 pm
Operator : SV125:jjw
Sample : L2433375-05,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 21 08:45:40 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

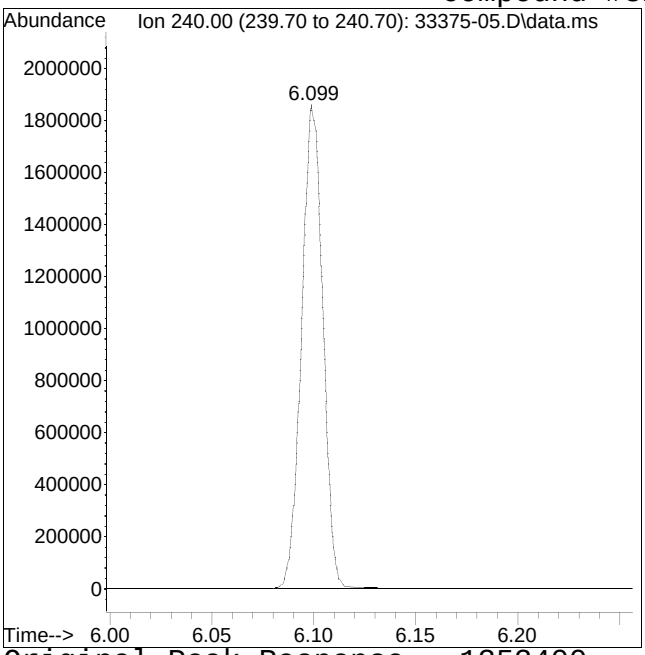


Manual Integration Report

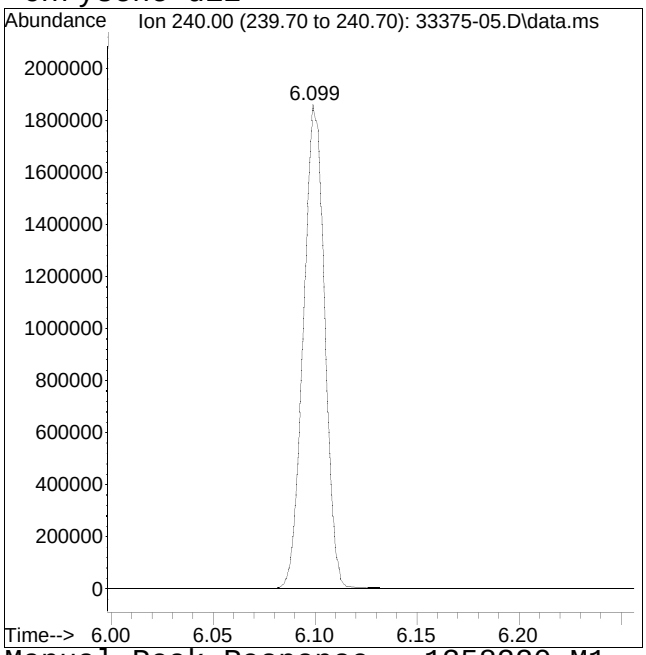
Data Path : I:\8270SIM\SV125\240620aRVQ
Data File : 33375-05.D
Date Inj'd : 6/20/2024 5:23 pm
Sample : L2433375-05,32,,jjw

Method : SIM-RVT_240223_sv125.M
Operator : SV125:jjw
Instrument : SV125
Quant Date : 6/20/2024 5:37 pm

Compound #32: Chrysene-d12



Original Peak Response = 1353400



Manual Peak Response = 1358220 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-02.D
Acq On : 20 Jun 2024 07:49 pm
Operator : SV125:jjw
Sample : L2433375-02,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 21 08:39:02 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.107	152	418883	4000.000	ng/ml	0.01
Standard Area 1 = 473486			Recovery = 88.47%			
9) Naphthalene-d8	2.768	136	1582869	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 86.94%			
18) Acenaphthene-d10	3.749	164	881590	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 84.95%			
23) Phenanthrene-d10	4.583	188	1746679	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 82.64%			
32) Chrysene-d12	6.098	240	1459781M1	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 91.32%			
37) Perylene-d12	7.201	264	1560499	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 99.31%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.526	112	13075	105.539	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 2.11%#			
4) Phenol-d6	1.927	99	32869	229.165	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.58%#			
8) Nitrobenzene-d5	2.385	82	101650	874.883	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 35.00%			
14) 2-Fluorobiphenyl	3.370	172	231758	637.636	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 25.51%#			
22) 2,4,6-Tribromophenol	4.192	330	6625	134.716	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 2.69%#			
31) 4-Terphenyl-d14	5.494	244	234947	658.281	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 26.33%#			

Target Compounds				Qvalue
5) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
7) Hexachloroethane	0.000	0	N.D. d	
10) Naphthalene	0.000	0	N.D. d	
11) Hexachlorobutadiene	0.000	0	N.D.	
12) 2-Methylnaphthalene	0.000	0	N.D. d	
15) 2-Chloronaphthalene	0.000	0	N.D. d	
17) Acenaphthylene	0.000	0	N.D. d	
19) Acenaphthene	0.000	0	N.D. d	
21) Fluorene	0.000	0	N.D. d	
25) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-02.D
Acq On : 20 Jun 2024 07:49 pm
Operator : SV125:jjw
Sample : L2433375-02,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 21 08:39:02 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

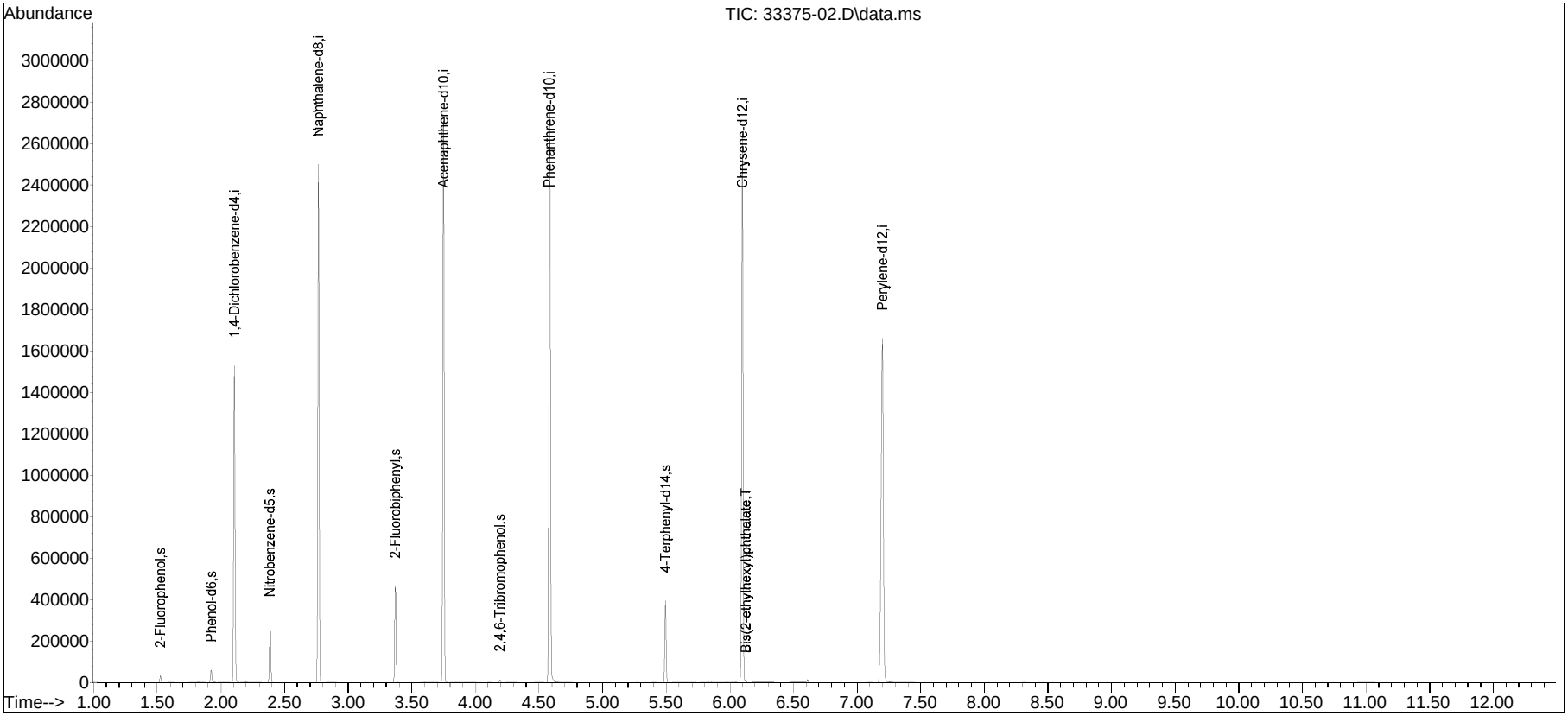
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-02.D
Acq On : 20 Jun 2024 07:49 pm
Operator : SV125:jjw
Sample : L2433375-02,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 21 08:39:02 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

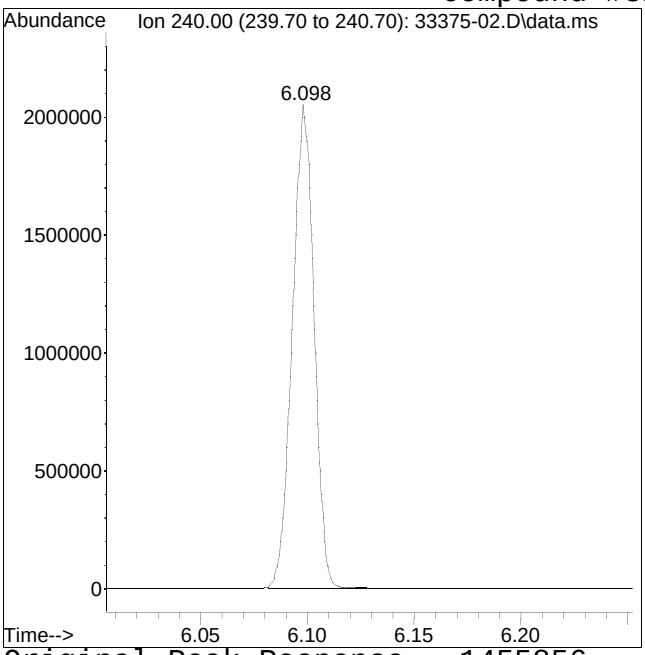
Sub List : DEFAULT - All compounds listedT\ccv0620.D•



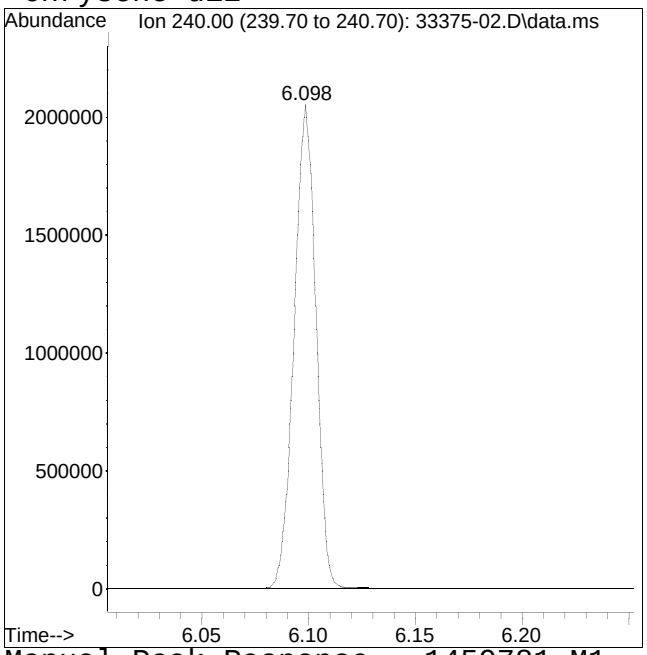
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 33375-02.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 7:49 pm Instrument : SV125
Sample : L2433375-02,32,,jjw Quant Date : 6/20/2024 8:03 pm

Compound #32: Chrysene-d12



Original Peak Response = 1455856



Manual Peak Response = 1459781 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-06.D
Acq On : 20 Jun 2024 08:05 pm
Operator : SV125:jjw
Sample : L2433375-06,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 21 08:47:52 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	424247	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 89.60%			
9) Naphthalene-d8	2.768	136	1607669	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 88.31%			
18) Acenaphthene-d10	3.748	164	887872	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 85.56%			
23) Phenanthrene-d10	4.583	188	1738639	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 82.26%			
32) Chrysene-d12	6.098	240	1447855M1	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 90.57%			
37) Perylene-d12	7.201	264	1533303	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 97.58%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.523	112	31548	251.430	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.03%#			
4) Phenol-d6	1.924	99	49978	344.044	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 6.88%#			
8) Nitrobenzene-d5	2.385	82	103240	877.333	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 35.09%			
14) 2-Fluorobiphenyl	3.369	172	218370	591.533	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 23.66%#			
22) 2,4,6-Tribromophenol	4.191	330	20204	407.932	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 8.16%#			
31) 4-Terphenyl-d14	5.493	244	239011	672.764	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 26.91%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-06.D
Acq On : 20 Jun 2024 08:05 pm
Operator : SV125:jjw
Sample : L2433375-06,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 21 08:47:52 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

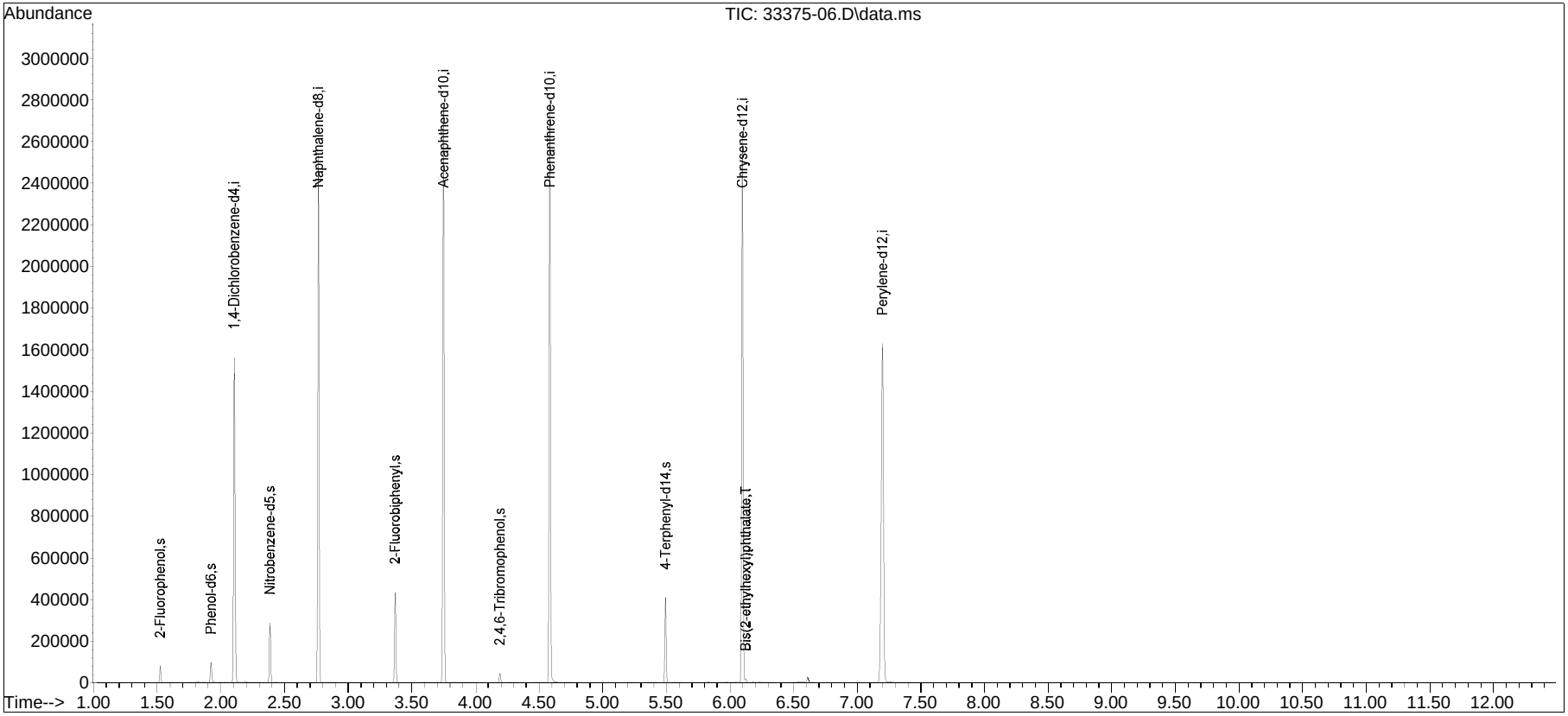
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-06.D
Acq On : 20 Jun 2024 08:05 pm
Operator : SV125:jjw
Sample : L2433375-06,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 21 08:47:52 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

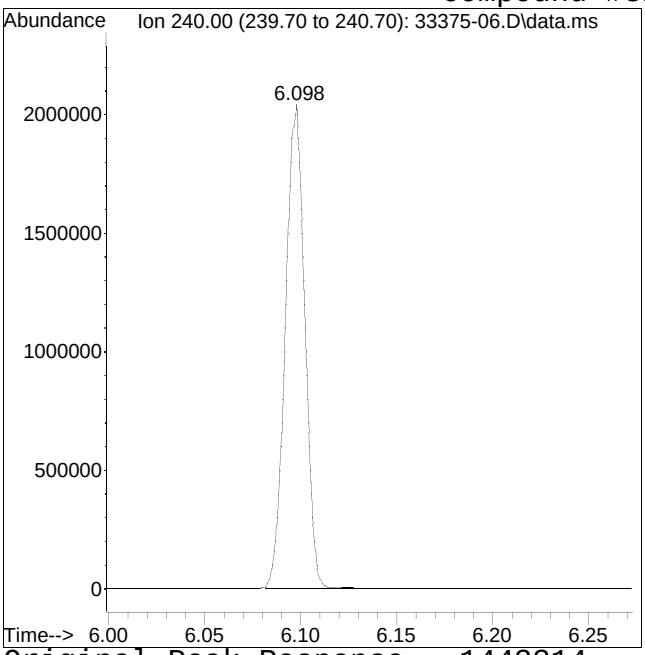
Sub List : DEFAULT - All compounds listedT\ccv0620.D•



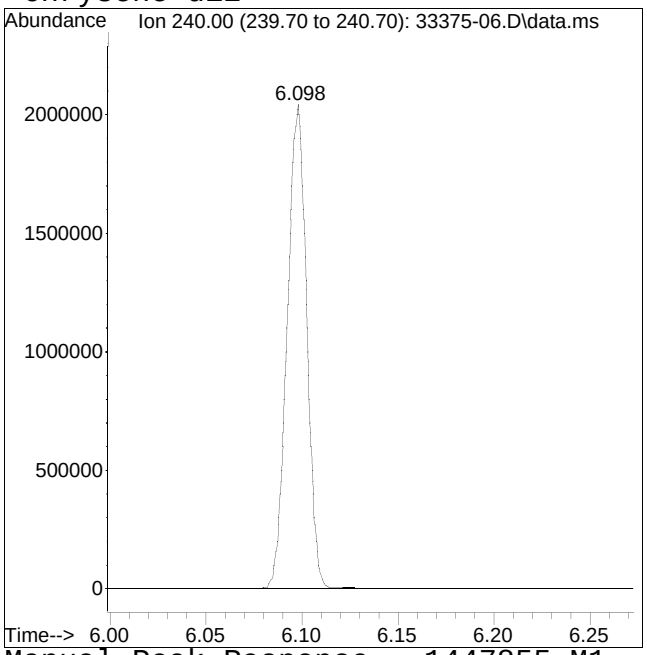
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 33375-06.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 8:05 pm Instrument : SV125
Sample : L2433375-06,32,,jjw Quant Date : 6/20/2024 8:19 pm

Compound #32: Chrysene-d12



Original Peak Response = 1443314



Manual Peak Response = 1447855 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-07.D
Acq On : 20 Jun 2024 08:21 pm
Operator : SV125:jjw
Sample : L2433375-07,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 21 08:52:57 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.107	152	405145	4000.000	ng/ml	0.01
Standard Area 1 = 473486			Recovery = 85.57%			
9) Naphthalene-d8	2.769	136	1550543	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 85.17%			
18) Acenaphthene-d10	3.746	164	854480	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 82.34%			
23) Phenanthrene-d10	4.584	188	1680765	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 79.52%			
32) Chrysene-d12	6.096	240	1445433M1	4000.000	ng/ml	-0.06
Standard Area 1 = 1598607			Recovery = 90.42%			
37) Perylene-d12	7.199	264	1535338	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 97.71%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.526	112	59212	494.155	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 9.88%#			
4) Phenol-d6	1.924	99	77525	558.838	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 11.18%#			
8) Nitrobenzene-d5	2.386	82	87947	782.611	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 31.30%			
14) 2-Fluorobiphenyl	3.370	172	190621	535.389	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 21.42%#			
22) 2,4,6-Tribromophenol	4.192	330	35655	748.031	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.96%#			
31) 4-Terphenyl-d14	5.491	244	214587	624.814	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 24.99%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.		
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-07.D
Acq On : 20 Jun 2024 08:21 pm
Operator : SV125:jjw
Sample : L2433375-07,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 21 08:52:57 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

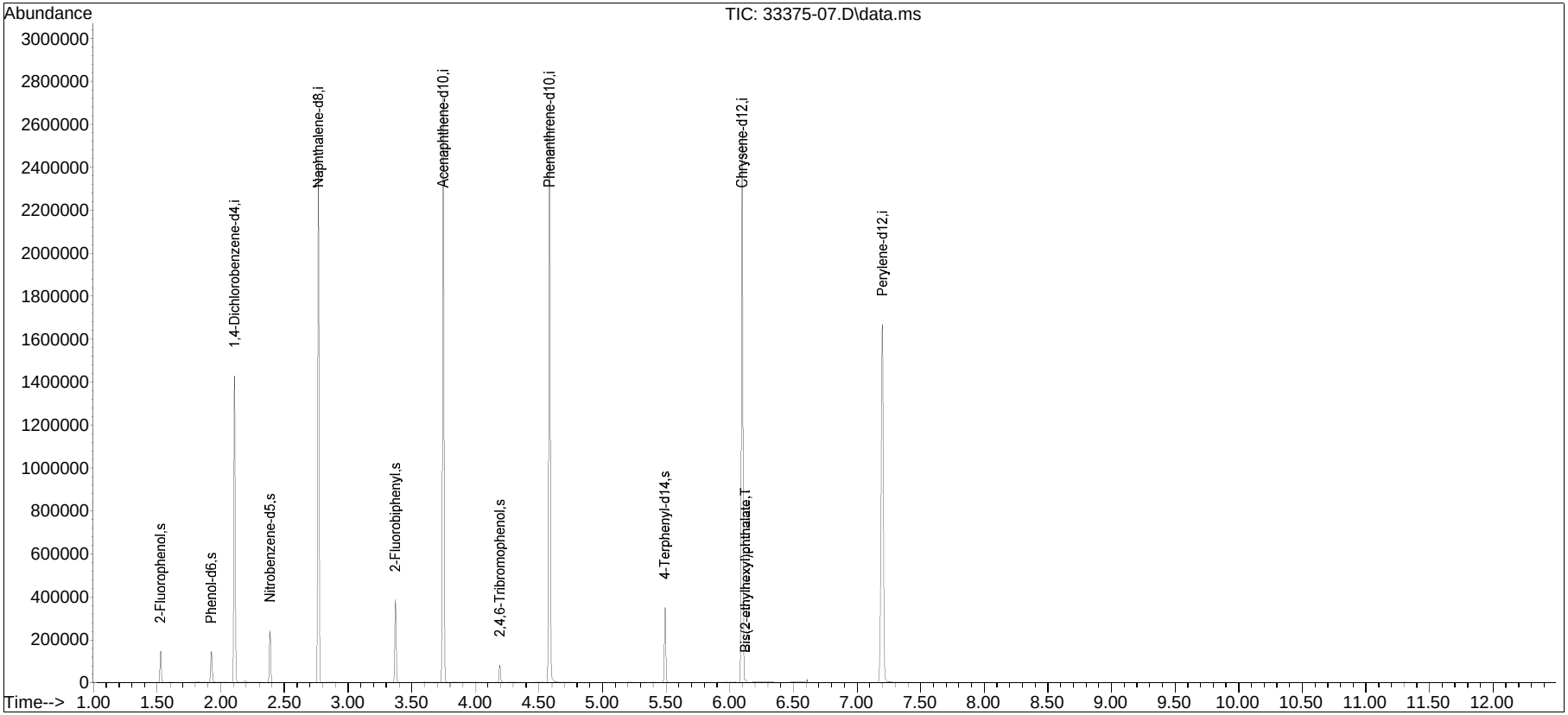
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-07.D
Acq On : 20 Jun 2024 08:21 pm
Operator : SV125:jjw
Sample : L2433375-07,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 21 08:52:57 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

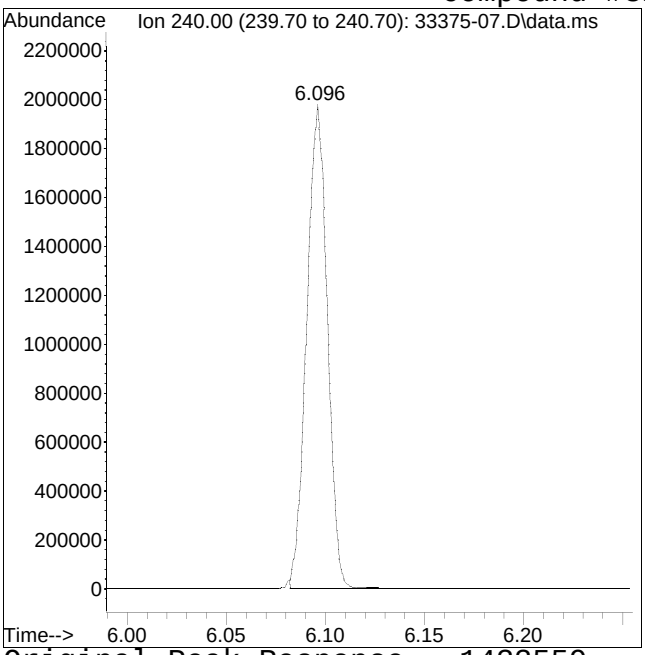
Sub List : DEFAULT - All compounds listedT\ccv0620.D•



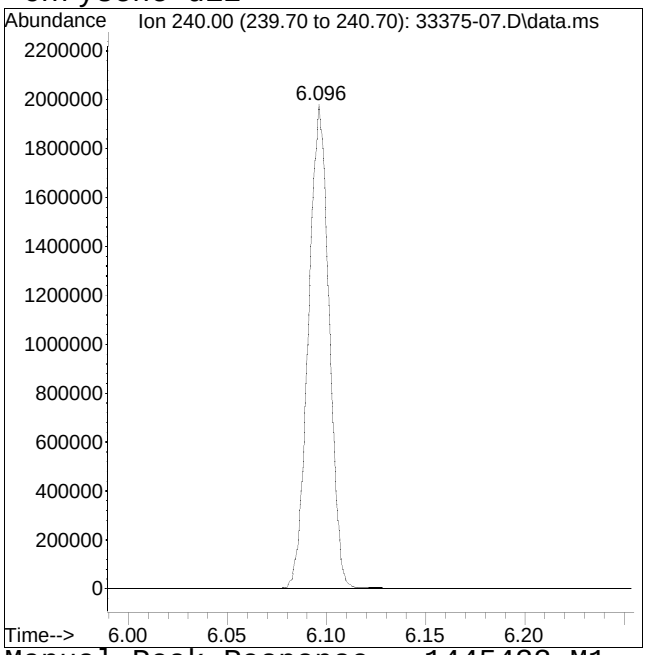
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 33375-07.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 8:21 pm Instrument : SV125
Sample : L2433375-07,32,,jjw Quant Date : 6/20/2024 8:36 pm

Compound #32: Chrysene-d12



Original Peak Response = 1433559



Manual Peak Response = 1445433 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-08.D
Acq On : 20 Jun 2024 08:38 pm
Operator : SV125:jjw
Sample : L2433375-08,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 21 08:54:49 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	406987	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 85.96%			
9) Naphthalene-d8	2.769	136	1548641	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 85.06%			
18) Acenaphthene-d10	3.746	164	854406	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 82.33%			
23) Phenanthrene-d10	4.583	188	1666794	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 78.86%			
32) Chrysene-d12	6.096	240	1408125M1	4000.000	ng/ml	-0.06
Standard Area 1 = 1598607			Recovery = 88.08%			
37) Perylene-d12	7.198	264	1475000	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 93.87%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.526	112	52375	435.118	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 8.70%#			
4) Phenol-d6	1.924	99	85858	616.105	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 12.32%#			
8) Nitrobenzene-d5	2.385	82	110075	975.087	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 39.00%			
14) 2-Fluorobiphenyl	3.370	172	229273	644.740	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 25.79%#			
22) 2,4,6-Tribromophenol	4.192	330	28577	599.589	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 11.99%#			
31) 4-Terphenyl-d14	5.494	244	272553	800.246	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 32.01%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-08.D
Acq On : 20 Jun 2024 08:38 pm
Operator : SV125:jjw
Sample : L2433375-08,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 21 08:54:49 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

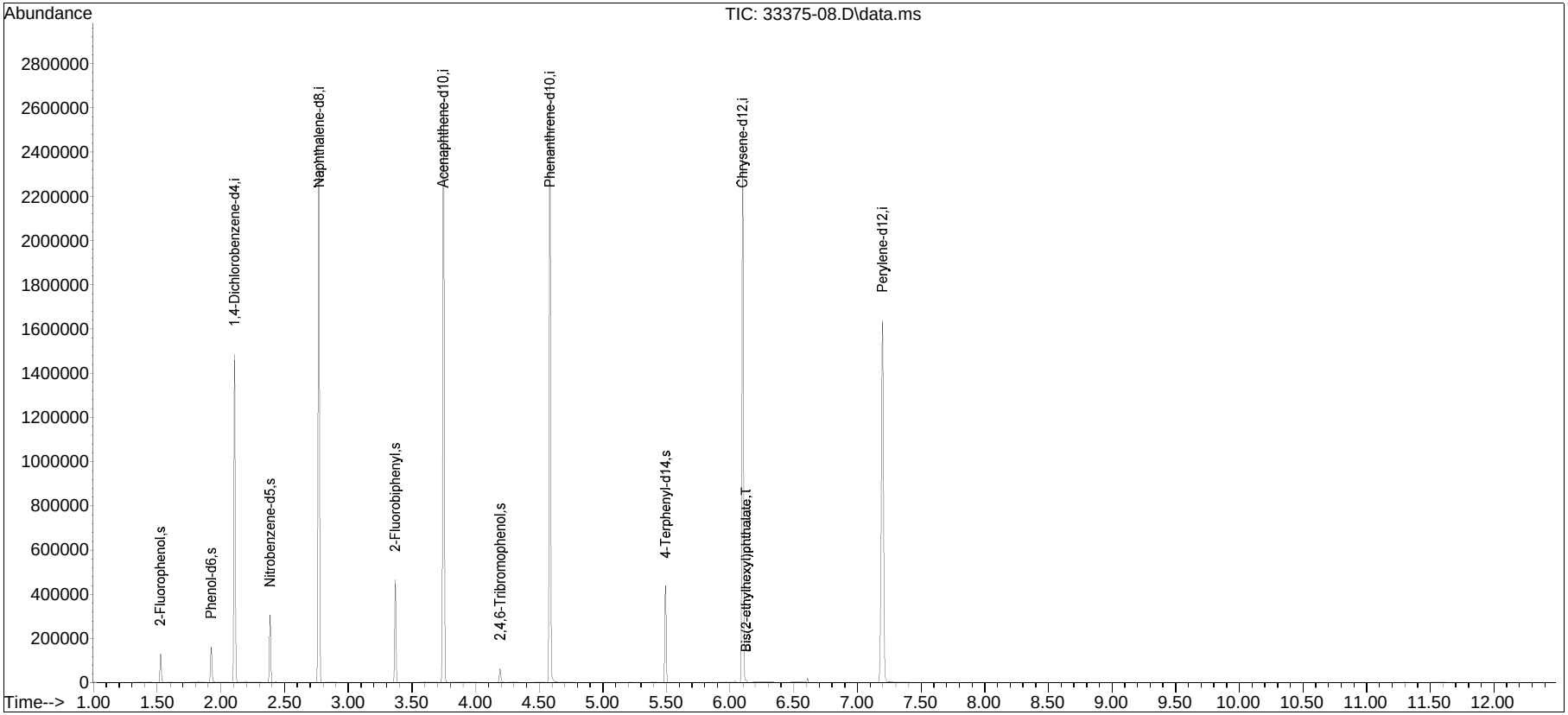
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-08.D
Acq On : 20 Jun 2024 08:38 pm
Operator : SV125:jjw
Sample : L2433375-08,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 21 08:54:49 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

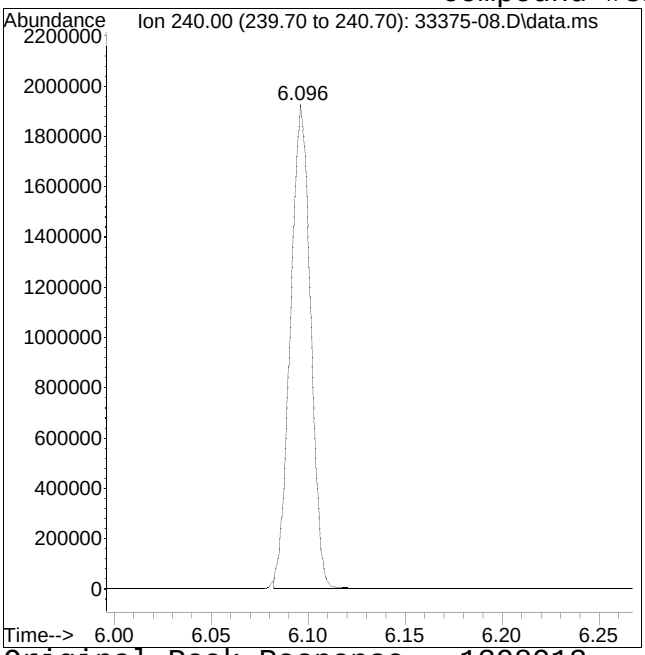
Sub List : DEFAULT - All compounds listedT\ccv0620.D•



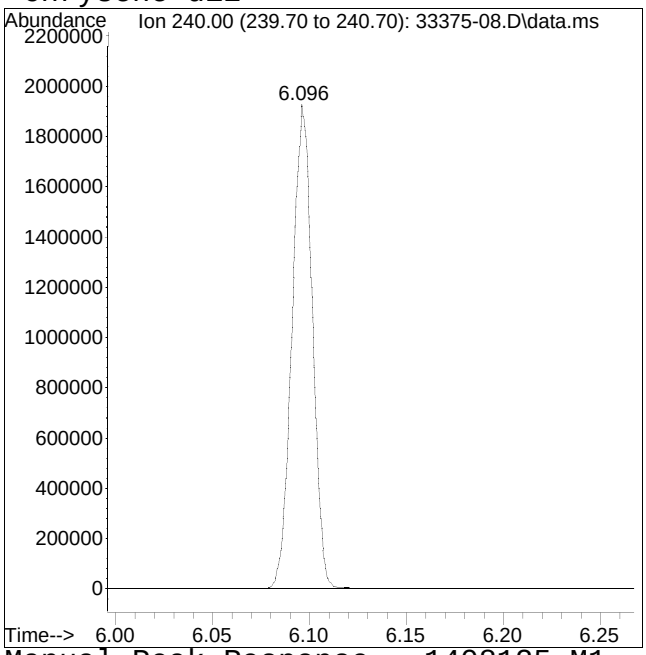
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 33375-08.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 8:38 pm Instrument : SV125
Sample : L2433375-08,32,,jjw Quant Date : 6/20/2024 8:51 pm

Compound #32: Chrysene-d12



Original Peak Response = 1398913



Manual Peak Response = 1408125 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-04.D
Acq On : 20 Jun 2024 10:14 pm
Operator : SV125:jjw
Sample : L2433375-04,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jun 21 08:43:13 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.103	152	426626	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 90.10%			
9) Naphthalene-d8	2.768	136	1630010	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 89.53%			
18) Acenaphthene-d10	3.749	164	899722	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 86.70%			
23) Phenanthrene-d10	4.583	188	1763481	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 83.43%			
32) Chrysene-d12	6.095	240	1496671M4	4000.000	ng/ml	-0.06
Standard Area 1 = 1598607			Recovery = 93.62%			
37) Perylene-d12	7.197	264	1637732	4000.000	ng/ml	-0.07
Standard Area 1 = 1571336			Recovery = 104.23%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.520	112	43566	345.274	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 6.91%#			
4) Phenol-d6	1.923	99	69462	475.504	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 9.51%#			
8) Nitrobenzene-d5	2.385	82	106584	900.699	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 36.03%			
14) 2-Fluorobiphenyl	3.373	172	253884	678.309	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 27.13%#			
22) 2,4,6-Tribromophenol	4.192	330	23905	476.301	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 9.53%#			
31) 4-Terphenyl-d14	5.494	244	243306	675.206	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 27.01%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	2.780	128	3989M6	8.766	ng/ml	
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	3.162	142	1459M6	5.005	ng/ml	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-04.D
Acq On : 20 Jun 2024 10:14 pm
Operator : SV125:jjw
Sample : L2433375-04,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jun 21 08:43:13 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

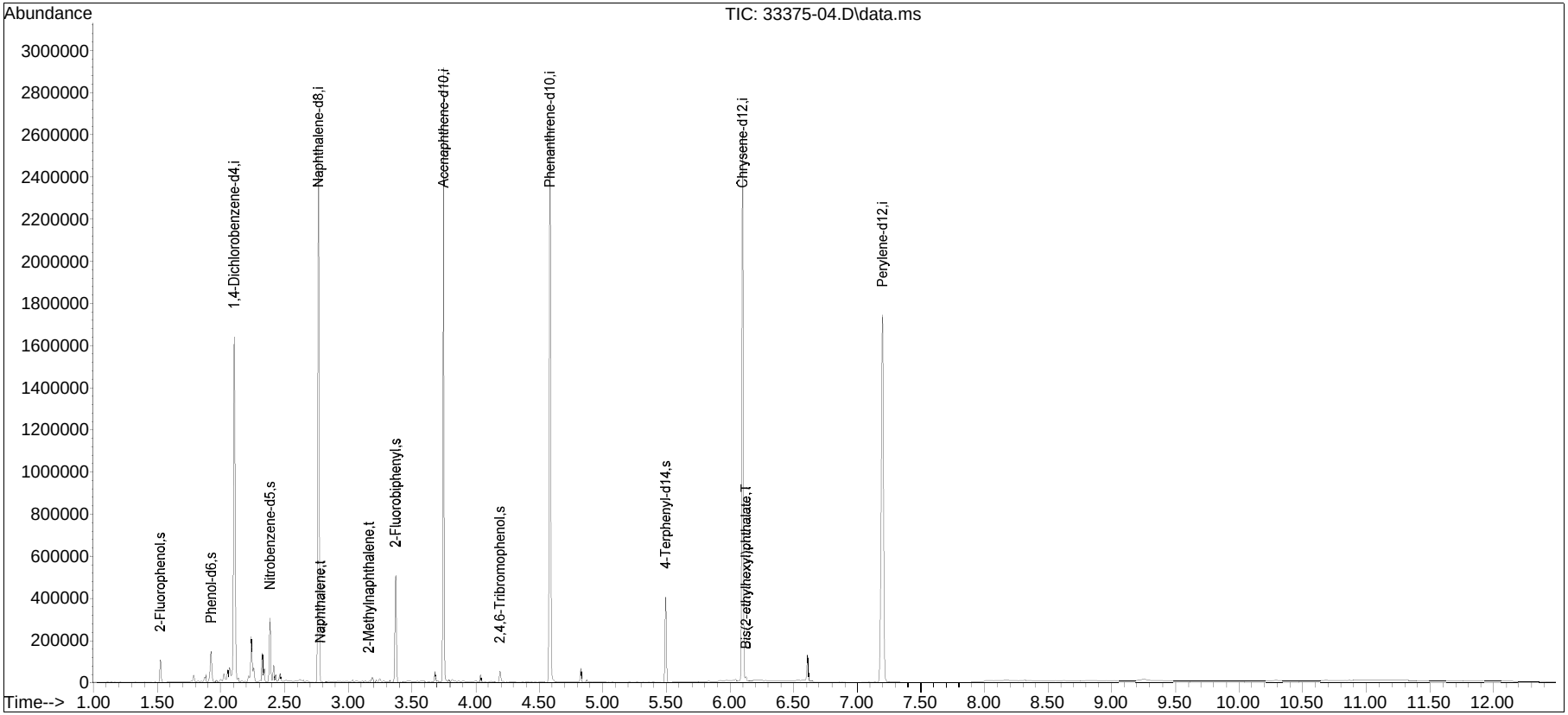
(#) = qualifier out of range (m) = manual integration (+) = signals summed

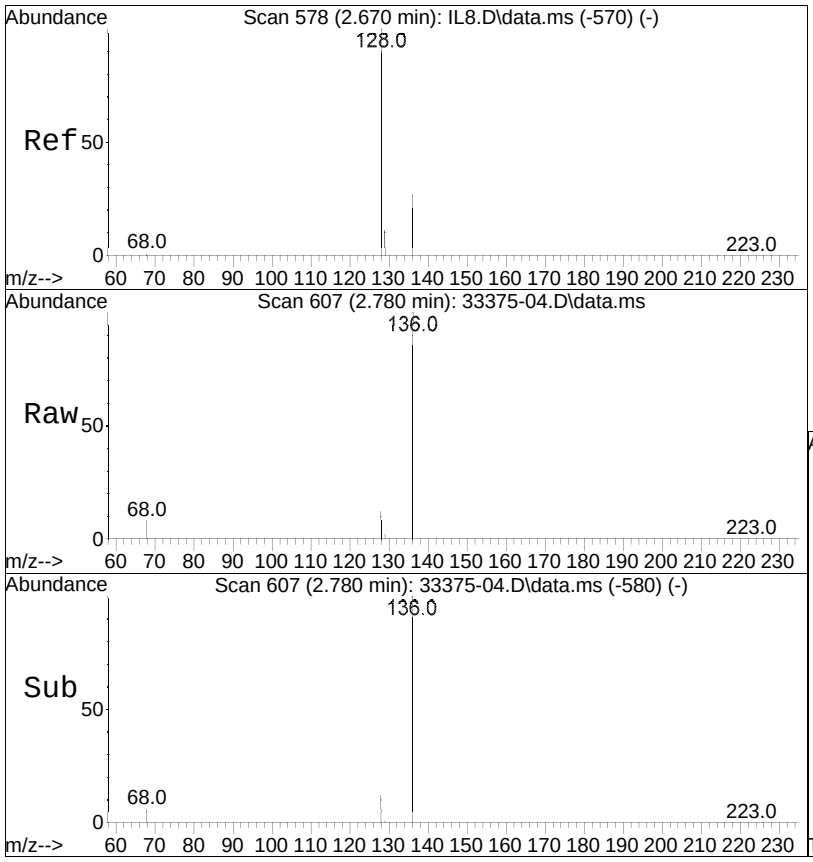
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 33375-04.D
Acq On : 20 Jun 2024 10:14 pm
Operator : SV125:jjw
Sample : L2433375-04,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jun 21 08:43:13 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

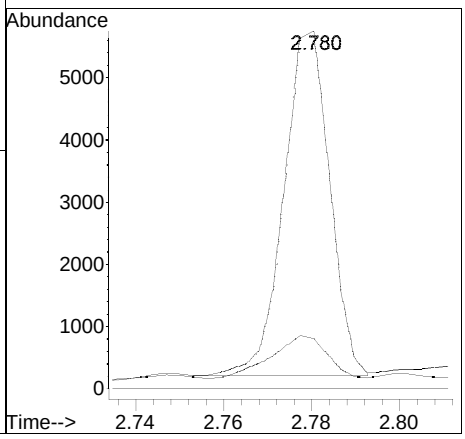


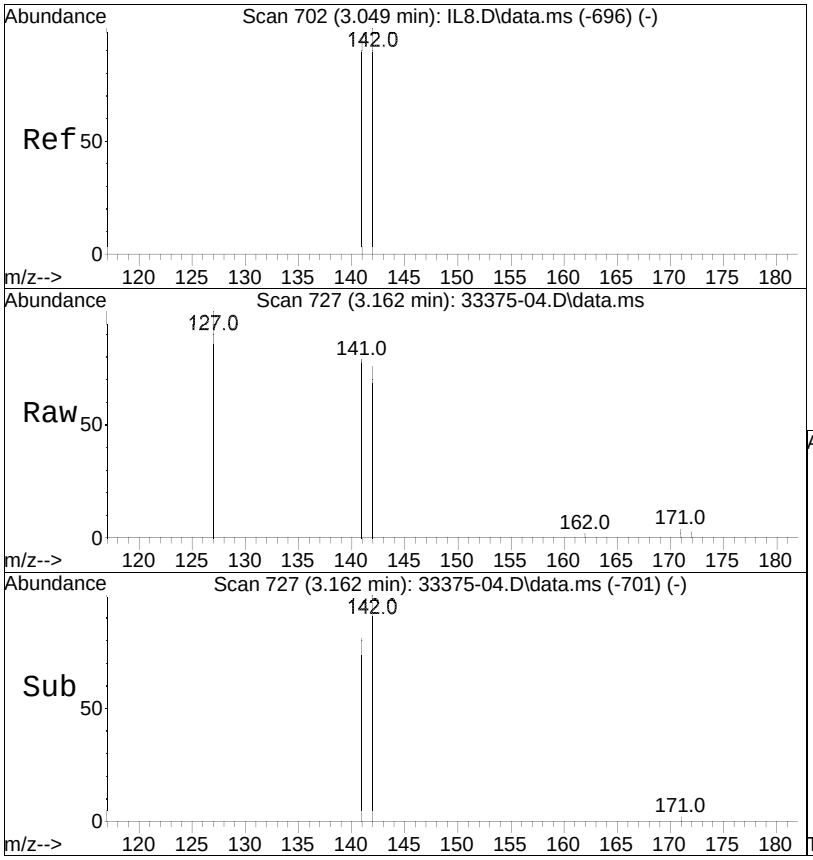


#10
Naphthalene
Concen: 8.77 ng/ml M6
RT: 2.780 min Scan# 607
Delta R.T. 0.006 min
Lab File: 33375-04.D
Acq: 20 Jun 2024 10:14 pm

Tgt Ion:128 Resp: 3989

Ion	Ratio	Lower	Upper
128	100		
129	15.5	8.8	13.2#
127	0.0	0.0	0.0

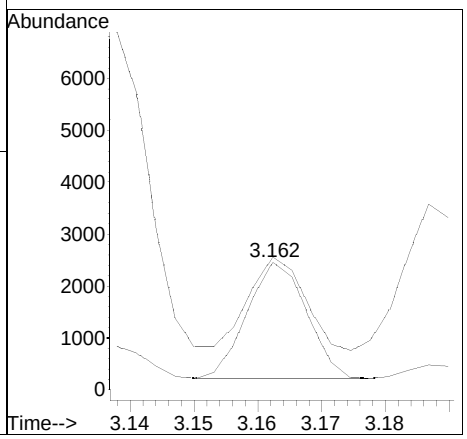




#12
2-Methylnaphthalene
Concen: 5.01 ng/ml M6
RT: 3.162 min Scan# 727
Delta R.T. 0.006 min
Lab File: 33375-04.D
Acq: 20 Jun 2024 10:14 pm

Tgt Ion:142 Resp: 1459

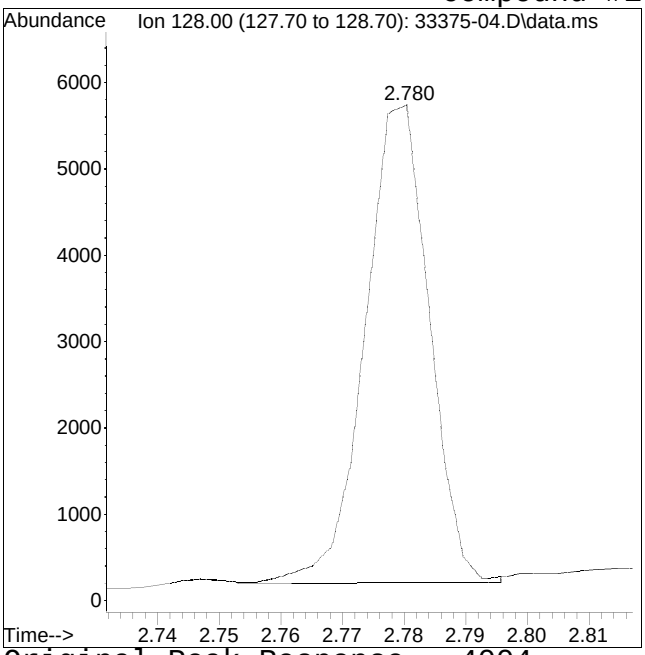
Ion	Ratio	Lower	Upper
142	100		
141	85.0	74.4	111.6



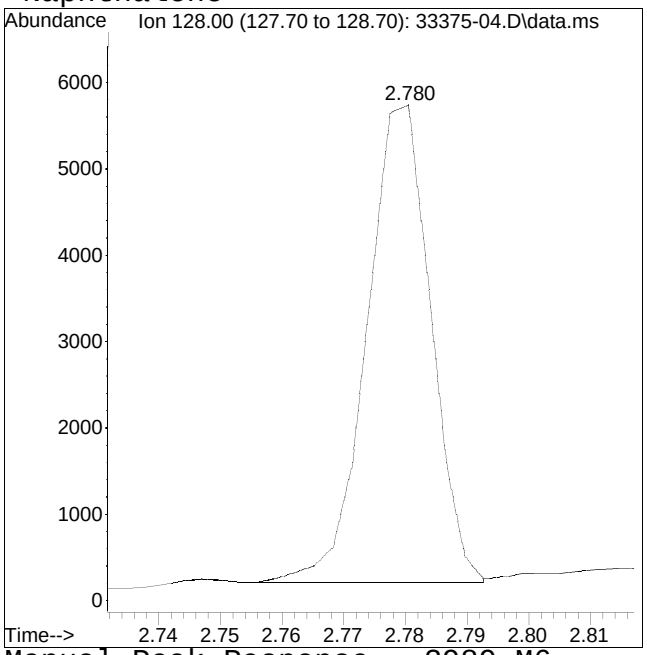
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 33375-04.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 10:14 pm Instrument : SV125
Sample : L2433375-04,32,,rp Quant Date : 6/20/2024 10:28 pm

Compound #10: Naphthalene



Original Peak Response = 4004



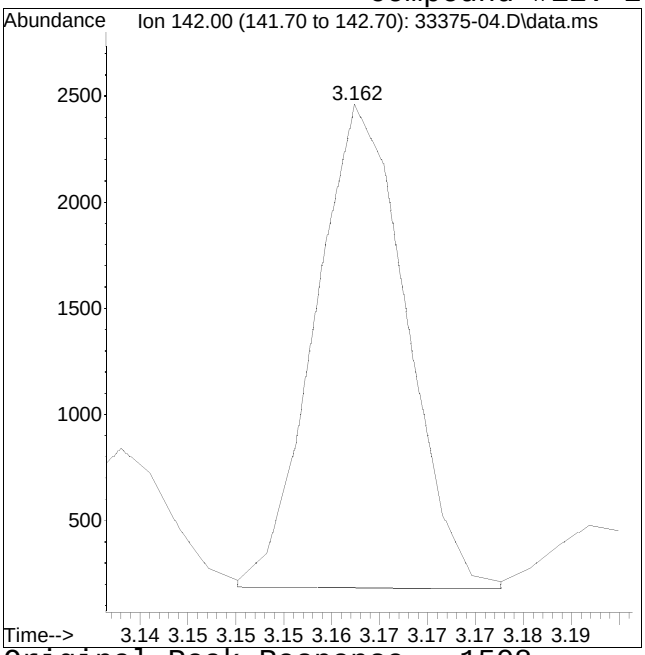
Manual Peak Response = 3989 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

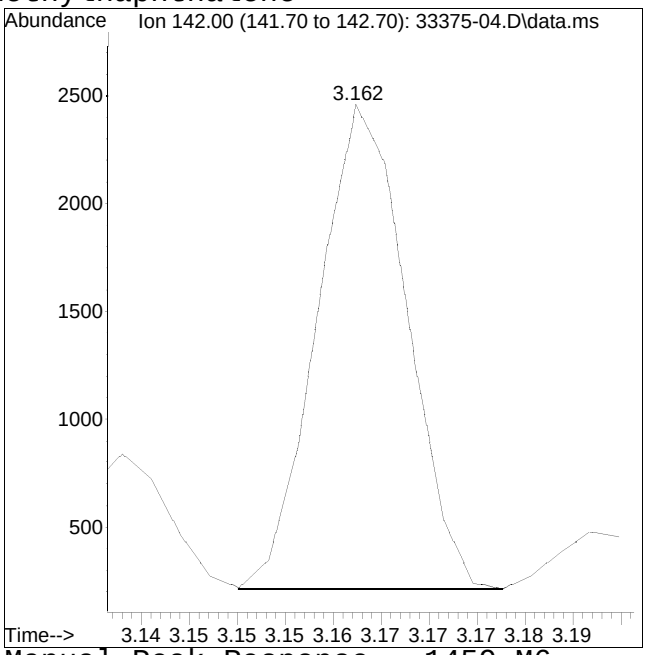
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 33375-04.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 10:14 pm Instrument : SV125
Sample : L2433375-04,32,,rp Quant Date : 6/20/2024 10:28 pm

Compound #12: 2-Methylnaphthalene



Original Peak Response = 1508



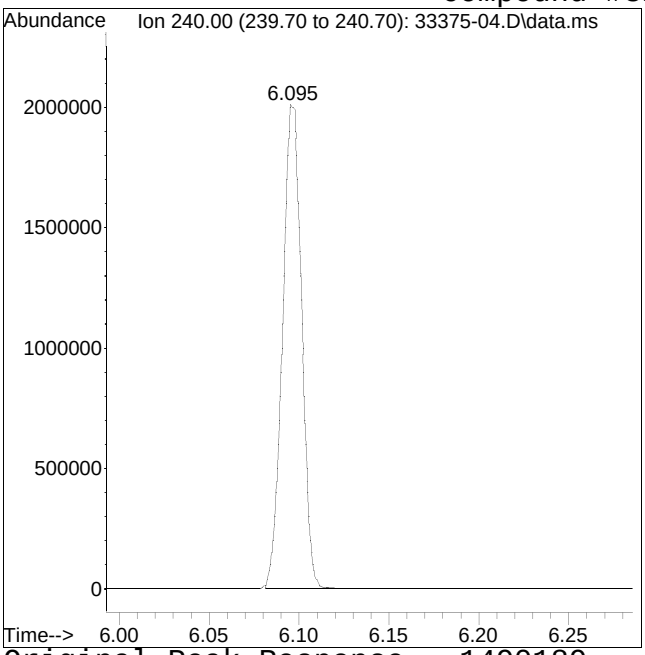
Manual Peak Response = 1459 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

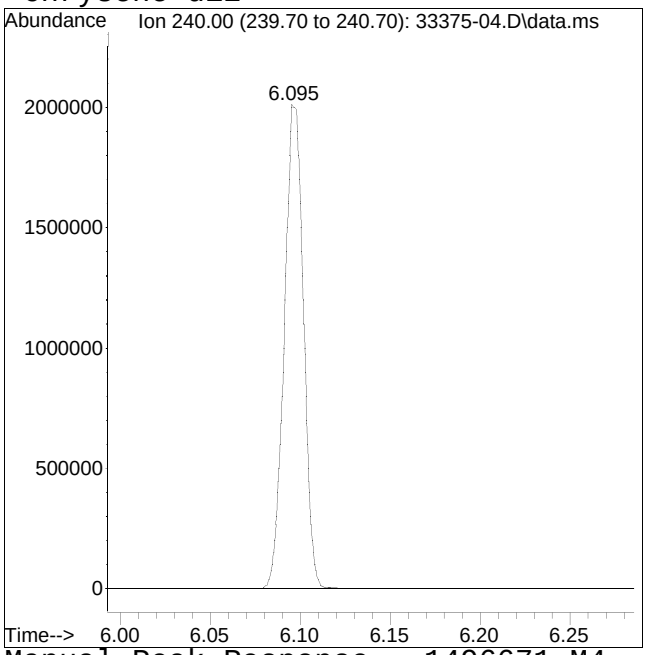
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 33375-04.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 10:14 pm Instrument : SV125
Sample : L2433375-04,32,,rp Quant Date : 6/20/2024 10:28 pm

Compound #32: Chrysene-d12



Original Peak Response = 1490189



Manual Peak Response = 1496671 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : 33375-03.D
Acq On : 21 Jun 2024 11:56 am
Operator : SV120:jjw
Sample : L2433375-03,32,,rp
Misc : WG1937540,WG1936909,ical21160
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 12:26:53 2024
Quant Method : I:\8270sim\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.202	152	122816	4000.000	ng/ml	0.00
Standard Area 1 = 135748			Recovery = 90.47%			
8) Naphthalene-d8	2.864	136	482705	4000.000	ng/ml	0.00
Standard Area 1 = 501106			Recovery = 96.33%			
17) Acenaphthene-d10	3.836	164	292029	4000.000	ng/ml	0.00
Standard Area 1 = 287581			Recovery = 101.55%			
22) Phenanthrene-d10	4.670	188	585555	4000.000	ng/ml	0.00
Standard Area 1 = 591010			Recovery = 99.08%			
31) Chrysene-d12	6.201	240	468719	4000.000	ng/ml	-0.03
Standard Area 1 = 506883			Recovery = 92.47%			
36) Perylene-d12	7.361	264	513041	4000.000	ng/ml	-0.03
Standard Area 1 = 537417			Recovery = 95.46%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	19928	545.938	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.30%			
3) Phenol-d6	2.021	99	21724	495.105	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.76%			
7) Nitrobenzene-d5	2.481	82	31970	817.784	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 81.78%			
13) 2-Fluorobiphenyl	3.459	172	82337	802.207	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.22%			
21) 2,4,6-Tribromophenol	4.279	330	11098	561.561	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.08%			
30) 4-Terphenyl-d14	5.579	244	102307	858.704	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 42.94%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : 33375-03.D
Acq On : 21 Jun 2024 11:56 am
Operator : SV120:jjw
Sample : L2433375-03,32,,rp
Misc : WG1937540,WG1936909,ical21160
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 12:26:53 2024
Quant Method : I:\8270sim\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

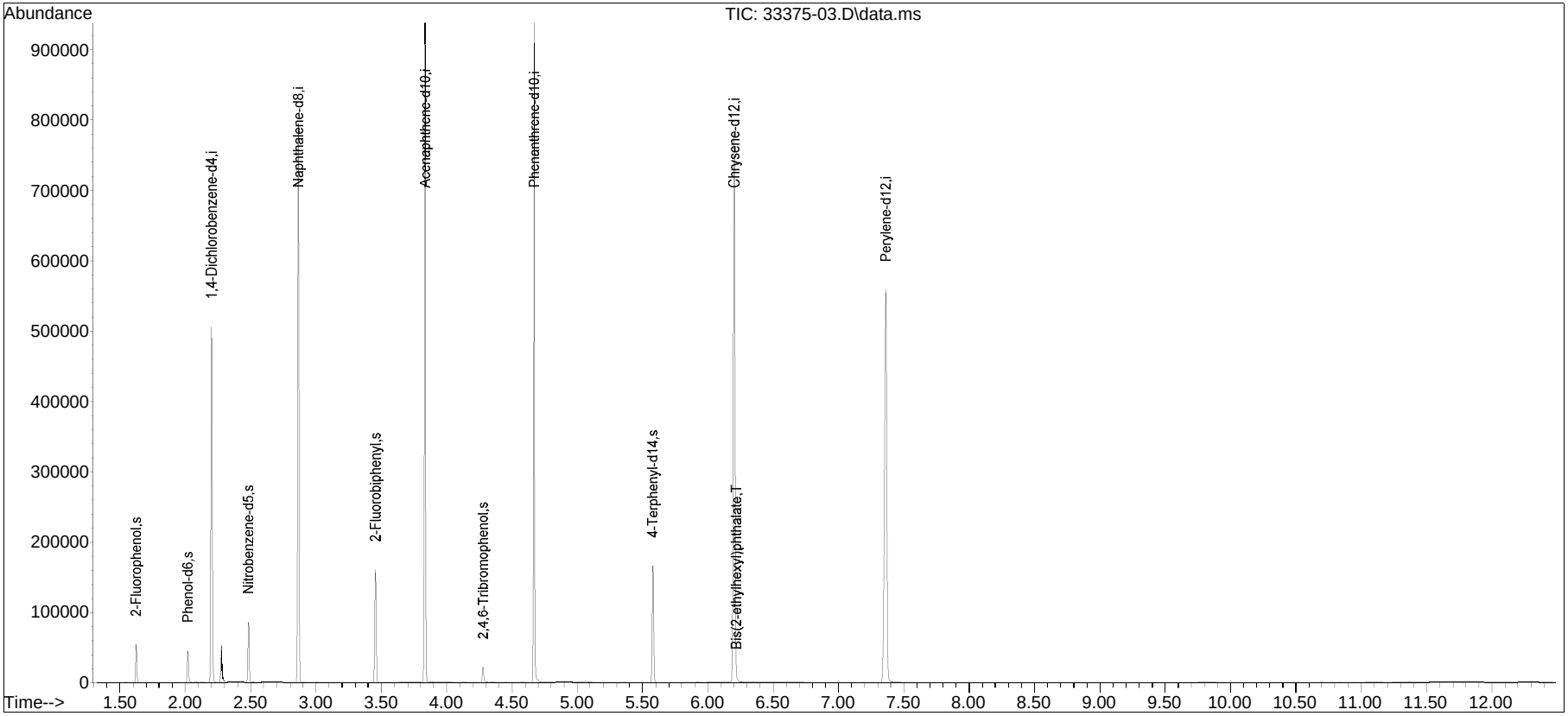
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : 33375-03.D
Acq On : 21 Jun 2024 11:56 am
Operator : SV120:jjw
Sample : L2433375-03,32,,rp
Misc : WG1937540,WG1936909,ical21160
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 12:26:53 2024
Quant Method : I:\8270sim\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0621.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240621RVTQ	Method	: SIM-RVT_240521_sv120.M
Data File	: 33375-03.D	Operator	: SV120:jjw
Date Inj'd	: 6/21/2024 11:56 am	Instrument	: SV120
Sample	: L2433375-03,32,,rp	Quant Date	: 6/21/2024 12:10 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV125**	**Ical Ref**	**: ICAL20885**
Calibration dates	**: 02/23/24 14:31 02/23/24 16:56**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	T	1,4-Dioxane											0.000	-1.00
3)	s	2-Fluorophenol	1.251	1.142	1.135	1.133	1.201	1.217	1.232	1.240	1.167	1.113	1.183	4.31
4)	s	Phenol-d6	1.324	1.310	1.283	1.323	1.356	1.387	1.421	1.461	1.424	1.406	1.370	4.30
5)	T	bis(2-Chloroethyl)ether		1.210	1.252	1.245	1.246	1.290	1.208	1.224	1.173	1.136	1.221	3.75
6)	T	n-Nitrosodi-n-propylamine		0.621	0.720	0.700	0.736	0.768	0.838	0.898	0.900	0.911	0.788	13.12
7)	t	Hexachloroethane		0.600	0.528	0.521	0.529	0.531	0.548	0.561	0.540	0.525	0.543	4.58
8)	s	Nitrobenzene-d5		1.000	0.970	0.975	1.055	1.095	1.193	1.243	1.232	1.224	1.109	10.35
9)	i	Naphthalene-d8	----------ISTD----------											
10)	t	Naphthalene	1.258	1.216	1.131	1.102	1.095	1.094	1.093	1.102	1.056	1.020	1.117	6.33
11)	t	Hexachlorobutadiene		0.231	0.219	0.207	0.213	0.213	0.213	0.214	0.205	0.200	0.213	4.15
12)	t	2-Methylnaphthalene	0.769	0.721	0.712	0.712	0.723	0.726	0.716	0.717	0.681	0.677	0.715	3.52
13)	t	1-Methylnaphthalene	0.757	0.681	0.670	0.675	0.686	0.675	0.664	0.671	0.647	0.647	0.677	4.55
14)	s	2-Fluorobiphenyl	0.984	0.920	0.946	0.928	0.930	0.932	0.915	0.921	0.867	0.842	0.918	4.32
15)	t	2-Chloronaphthalene	0.842	0.801	0.791	0.772	0.784	0.791	0.796	0.816	0.785	0.780	0.796	2.54
16)	t	2,6-Dinitrotoluene					0.130	0.135	0.167	0.192	0.193	0.196	*Q	0.9993
17)	t	Acenaphthylene	1.234	1.071	1.082	1.101	1.128	1.163	1.253	1.316	1.256	1.233	1.184	7.22
18)	i	Acenaphthene-d10	----------ISTD----------											
19)	t	Acenaphthene	1.420	1.364	1.327	1.366	1.363	1.366	1.387	1.407	1.357	1.319	1.368	2.31
20)	t	2,4-Dinitrotoluene					0.268	0.297	0.386	0.447	0.451	0.458	*Q	0.9992
21)	t	Fluorene	1.640	1.542	1.508	1.494	1.527	1.564	1.623	1.667	1.571	1.514	1.565	3.84
22)	s	2,4,6-Tribromophenol		0.181	0.187	0.193	0.201	0.218	0.248	0.265	0.257	0.257	0.223	15.15
23)	i	Phenanthrene-d10	----------ISTD----------											
24)	T	4,6-Dinitro-o-cresol					0.055	0.064	0.085	0.100	0.108	0.114	*Q	0.9991
25)	t	Hexachlorobenzene		0.264	0.285	0.276	0.284	0.287	0.284	0.284	0.268	0.260	0.277	3.69
26)	t	Pentachlorophenol			0.085	0.088	0.087	0.098	0.132	0.148	0.157	0.162	*Q	0.9985
27)	t	Phenanthrene	1.251	1.181	1.154	1.122	1.191	1.164	1.164	1.180	1.108	1.052	1.157	4.65
28)	t	Anthracene	1.172	1.070	1.063	1.050	1.095	1.108	1.170	1.209	1.147	1.088	1.117	4.83
29)	t	Fluoranthene	1.442	1.314	1.280	1.279	1.301	1.326	1.410	1.453	1.346	1.260	1.341	5.22
30)	t	Pyrene	1.531	1.350	1.335	1.321	1.382	1.400	1.481	1.516	1.389	1.320	1.402	5.68
31)	s	4-Terphenyl-d14	0.967	0.833	0.828	0.788	0.812	0.817	0.819	0.831	0.756	0.723	0.817	7.78
32)	i	Chrysene-d12	----------ISTD----------											
33)	t	Benzo[a]anthracene	1.521	0.849	0.417	0.273	0.180	0.167	0.170	0.169	0.161	0.156	*L	0.9992
34)	t	3,3'-Dichlorobenzene					0.452	0.496	0.613	0.680	0.683	0.683	*Q	0.9996
35)	t	Chrysene	1.335	1.107	1.314	1.472	1.519	1.490	1.511	1.615	1.500	1.421	1.429	10.07
36)	T	bis(2-Ethylhexyl)phthalate					0.689	0.678	0.874	1.023	1.097	1.080	*L	0.9980

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV125**	**Ical Ref**	**: ICAL20885**
Calibration dates	**: 02/23/24 14:31 02/23/24 16:56**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) i	Perylene-d12	----------ISTD----------											
38) t	Benzo[b]fluoranthene	1.420	1.265	1.213	1.281	1.351	1.355	1.458	1.642	1.464	1.475	1.392	9.05
39) t	Benzo[k]fluoranthene	1.211	1.223	1.243	1.197	1.236	1.369	1.506	1.391	1.390	1.221	1.299	8.19
40) t	Benzo[a]pyrene	1.043	1.009	0.996	1.009	1.066	1.143	1.299	1.361	1.326	1.292	1.155	12.91
41) t	Indeno[1,2,3-cd]pyrene	1.087	1.021	0.999	1.017	1.045	1.114	1.228	1.296	1.326	1.368	1.150	12.28
42) t	Dibenzo[a,h]anthracene	0.994	0.940	0.911	0.934	0.989	1.069	1.171	1.203	1.199	1.252	1.066	12.12
43) t	Benzo[g,h,i]perylene	1.081	1.031	1.027	1.053	1.086	1.159	1.248	1.272	1.280	1.339	1.158	10.14

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21160**
Calibration dates	**: 05/21/24 10:37 05/22/24 13:32**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	s	2-Fluorophenol	1.134	1.209	1.168	1.143	1.189	1.189	1.218	1.262	1.223	1.153	1.189	3.38
3)	s	Phenol-d6	1.418	1.417	1.351	1.323	1.390	1.404	1.478	1.531	1.502	1.477	1.429	4.67
4)	T	bis(2-Chloroethyl)ether		1.365	1.248	1.232	1.267	1.223	1.289	1.279	1.224	1.240	1.263	3.55
5)	T	n-Nitrosodi-n-propylamine		0.806	0.796	0.784	0.817	0.834	0.916	0.942	0.948	0.953	0.866	8.28
6)	t	Hexachloroethane		0.598	0.567	0.561	0.569	0.560	0.573	0.592	0.575	0.557	0.572	2.50
7)	s	Nitrobenzene-d5		1.248	1.157	1.143	1.218	1.233	1.358	1.370	1.372	1.361	1.273	7.33
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene	1.297	1.229	1.111	1.098	1.119	1.090	1.118	1.122	1.085	1.038	1.131	6.67
10)	t	Hexachlorobutadiene		0.235	0.207	0.218	0.223	0.217	0.216	0.221	0.211	0.200	0.216	4.60
11)	t	2-Methylnaphthalene	0.705	0.723	0.672	0.673	0.704	0.696	0.734	0.736	0.715	0.695	0.705	3.16
12)	t	1-Methylnaphthalene	0.691	0.708	0.638	0.632	0.657	0.653	0.683	0.680	0.658	0.641	0.664	3.80
13)	s	2-Fluorobiphenyl	0.890	0.880	0.820	0.817	0.856	0.850	0.888	0.865	0.830	0.808	0.851	3.58
14)	t	2-Chloronaphthalene		0.745	0.690	0.692	0.723	0.717	0.751	0.743	0.719	0.708	0.721	3.07
15)	t	2,6-Dinitrotoluene					0.123	0.131	0.169	0.174	0.182	0.185	*L	0.9994
16)	t	Acenaphthylene	1.026	1.001	0.940	0.937	1.012	1.038	1.185	1.176	1.155	1.142	1.061	8.97
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene	1.429	1.406	1.317	1.379	1.391	1.364	1.391	1.399	1.359	1.290	1.372	3.06
19)	t	2,4-Dinitrotoluene					0.279	0.312	0.426	0.442	0.463	0.450	*L	0.9995
20)	t	Fluorene	1.603	1.526	1.367	1.348	1.435	1.457	1.566	1.535	1.516	1.442	1.479	5.67
21)	s	2,4,6-Tribromophenol			0.148	0.159	0.181	0.207	0.267	0.272	0.282	0.270	*L	0.9988
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.051	0.062	0.101	0.118	0.127	0.125	*Q	0.9985
24)	t	Hexachlorobenzene	0.320	0.312	0.272	0.277	0.287	0.286	0.289	0.297	0.278	0.263	0.288	6.13
25)	t	Pentachlorophenol					0.038	0.063	0.132	0.160	0.174	0.174	*L	0.9973
26)	t	Phenanthrene	1.027	1.087	1.121	1.111	1.151	1.141	1.190	1.199	1.142	1.077	1.125	4.62
27)	t	Anthracene	1.248	1.079	1.013	1.011	1.062	1.078	1.165	1.179	1.170	1.108	1.111	6.96
28)	t	Fluoranthene	1.394	1.208	1.095	1.074	1.143	1.144	1.312	1.272	1.305	1.251	1.220	8.58
29)	t	Pyrene	1.428	1.281	1.121	1.086	1.168	1.192	1.408	1.326	1.363	1.276	1.265	9.44
30)	s	4-Terphenyl-d14	1.007	0.826	0.770	0.696	0.753	0.761	0.895	0.805	0.819	0.805	0.814	10.57
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene		7.698	3.677	2.479	1.646	1.474	1.517	1.598	1.573	1.499	*L	0.9991
33)	t	3,3'-Dichlorobenzene					0.404	0.430	0.535	0.590	0.631	0.608	0.533	17.91
34)	t	Chrysene	1.412	1.560	1.390	1.378	1.466	1.451	1.519	1.504	1.455	1.363	1.450	4.48
35)	T	bis(2-Ethylhexyl)phthalate					0.574	0.592	0.782	0.922	1.021	1.021	*L	0.9970
36)	i	Perylene-d12	----------ISTD----------											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21160**
Calibration dates	**: 05/21/24 10:37 05/22/24 13:32**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.520	1.324	1.148	1.134	1.188	1.239	1.353	1.491	1.425	1.406	1.323	10.60
38) t	Benzo[k]fluoranthene	1.284	1.296	1.068	1.093	1.166	1.185	1.392	1.401	1.419	1.287	1.259	10.06
39) t	Benzo[a]pyrene	1.167	1.047	0.899	0.885	0.968	0.992	1.182	1.255	1.278	1.231	1.090	13.72
40) t	Indeno[1,2,3-cd]pyrene	1.029	1.014	0.851	0.853	0.909	0.903	1.074	1.114	1.275	1.246	1.027	14.86
41) t	Dibenzo[a,h]anthracene	0.941	0.890	0.785	0.803	0.894	0.911	1.094	1.119	1.217	1.179	0.983	15.87
42) t	Benzo[g,h,i]perylene	1.059	1.063	0.876	0.890	0.958	0.958	1.115	1.117	1.222	1.188	1.045	11.50

Response Factor Report SV125

Method Path : I:\8270SIM\SV125\240223RVTical\
Method File : SIM-RVT_240223_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon May 20 13:58:51 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

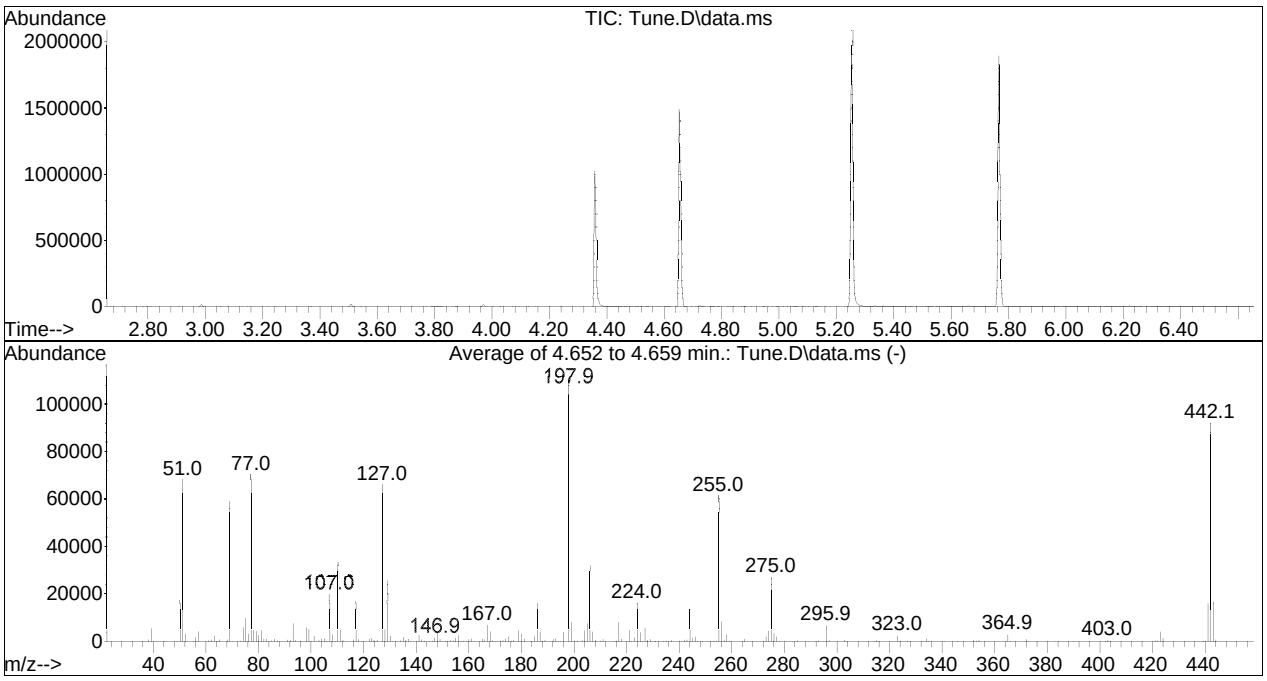
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	T	1,4-Dioxane											0.000	-1.00
3)	s	2-Fluorophenol	1.251	1.142	1.135	1.133	1.201	1.217	1.232	1.240	1.167	1.113	1.183	4.31
4)	s	Phenol-d6	1.324	1.310	1.283	1.323	1.356	1.387	1.421	1.461	1.424	1.406	1.370	4.30
5)	T	bis(2-Chloroethyl)ether		1.210	1.252	1.245	1.246	1.290	1.208	1.224	1.173	1.136	1.221	3.75
6)	T	n-Nitrosodi-n-propylamine		0.621	0.720	0.700	0.736	0.768	0.838	0.898	0.900	0.911	0.788	13.12
7)	t	Hexachloroethane		0.600	0.528	0.521	0.529	0.531	0.548	0.561	0.540	0.525	0.543	4.58
8)	s	Nitrobenzene-d5		1.000	0.970	0.975	1.055	1.095	1.193	1.243	1.232	1.224	1.109	10.35
9)	i	Naphthalene-d8	----------ISTD----------											
10)	t	Naphthalene	1.258	1.216	1.131	1.102	1.095	1.094	1.093	1.102	1.056	1.020	1.117	6.33
11)	t	Hexachlorobutadiene		0.231	0.219	0.207	0.213	0.213	0.213	0.214	0.205	0.200	0.213	4.15
12)	t	2-Methylnaphthalene	0.769	0.721	0.712	0.712	0.723	0.726	0.716	0.717	0.681	0.677	0.715	3.52
13)	t	1-Methylnaphthalene	0.757	0.681	0.670	0.675	0.686	0.675	0.664	0.671	0.647	0.647	0.677	4.55
14)	s	2-Fluorobiphenyl	0.984	0.920	0.946	0.928	0.930	0.932	0.915	0.921	0.867	0.842	0.918	4.32
15)	t	2-Chloronaphthalene	0.842	0.801	0.791	0.772	0.784	0.791	0.796	0.816	0.785	0.780	0.796	2.54
16)	t	2,6-Dinitrotoluene					0.130	0.135	0.167	0.192	0.193	0.196	*Q	0.9993
17)	t	Acenaphthylene	1.234	1.071	1.082	1.101	1.128	1.163	1.253	1.316	1.256	1.233	1.184	7.22
18)	i	Acenaphthene-d10	----------ISTD----------											
19)	t	Acenaphthene	1.420	1.364	1.327	1.366	1.363	1.366	1.387	1.407	1.357	1.319	1.368	2.31
20)	t	2,4-Dinitrotoluene					0.268	0.297	0.386	0.447	0.451	0.458	*Q	0.9992
21)	t	Fluorene	1.640	1.542	1.508	1.494	1.527	1.564	1.623	1.667	1.571	1.514	1.565	3.84
22)	s	2,4,6-Tribromophenol		0.181	0.187	0.193	0.201	0.218	0.248	0.265	0.257	0.257	0.223	15.15
23)	i	Phenanthrene-d10	----------ISTD----------											
24)	T	4,6-Dinitro-o-cresol					0.055	0.064	0.085	0.100	0.108	0.114	*Q	0.9991
25)	t	Hexachlorobenzene		0.264	0.285	0.276	0.284	0.287	0.284	0.284	0.268	0.260	0.277	3.69
26)	t	Pentachlorophenol			0.085	0.088	0.087	0.098	0.132	0.148	0.157	0.162	*Q	0.9985
27)	t	Phenanthrene	1.251	1.181	1.154	1.122	1.191	1.164	1.164	1.180	1.108	1.052	1.157	4.65
28)	t	Anthracene	1.172	1.070	1.063	1.050	1.095	1.108	1.170	1.209	1.147	1.088	1.117	4.83
29)	t	Fluoranthene	1.442	1.314	1.280	1.279	1.301	1.326	1.410	1.453	1.346	1.260	1.341	5.22
30)	t	Pyrene	1.531	1.350	1.335	1.321	1.382	1.400	1.481	1.516	1.389	1.320	1.402	5.68
31)	s	4-Terphenyl-d14	0.967	0.833	0.828	0.788	0.812	0.817	0.819	0.831	0.756	0.723	0.817	7.78
32)	i	Chrysene-d12	----------ISTD----------											
33)	t	Benzo[a]anthracene	1.521	0.849	0.417	0.273	0.180	0.167	0.170	0.169	0.161	0.156	*L	0.9992
34)	t	3,3'-Dichlorob...					0.452	0.496	0.613	0.680	0.683	0.683	*Q	0.9996
35)	t	Chrysene	1.335	1.107	1.314	1.472	1.519	1.490	1.511	1.615	1.500	1.421	1.429	10.07
36)	T	bis(2-Ethylhexyl)phthalate					0.689	0.678	0.874	1.023	1.097	1.080	*L	0.9980
37)	i	Perylene-d12	----------ISTD----------											
38)	t	Benzo[b]fluora...	1.420	1.265	1.213	1.281	1.351	1.355	1.458	1.642	1.464	1.475	1.392	9.05
39)	t	Benzo[k]fluora...	1.211	1.223	1.243	1.197	1.236	1.369	1.506	1.391	1.390	1.221	1.299	8.19
40)	t	Benzo[a]pyrene	1.043	1.009	0.996	1.009	1.066	1.143	1.299	1.361	1.326	1.292	1.155	12.91
41)	t	Indeno[1,2,3-c...	1.087	1.021	0.999	1.017	1.045	1.114	1.228	1.296	1.326	1.368	1.150	12.28
42)	t	Dibenzo[a,h]anthracene	0.994	0.940	0.911	0.934	0.989	1.069	1.171	1.203	1.199	1.252	1.066	12.12
43)	t	Benzo[g,h,i]pe...	1.081	1.031	1.027	1.053	1.086	1.159	1.248	1.272	1.280	1.339	1.158	10.14

(#) = Out of Range

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : Tune.D
Acq On : 23 Feb 2024 02:09 pm
Operator : SV125:dv
Sample : TUNE
Misc : WG1889366,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Feb 26 13:37:21 2024



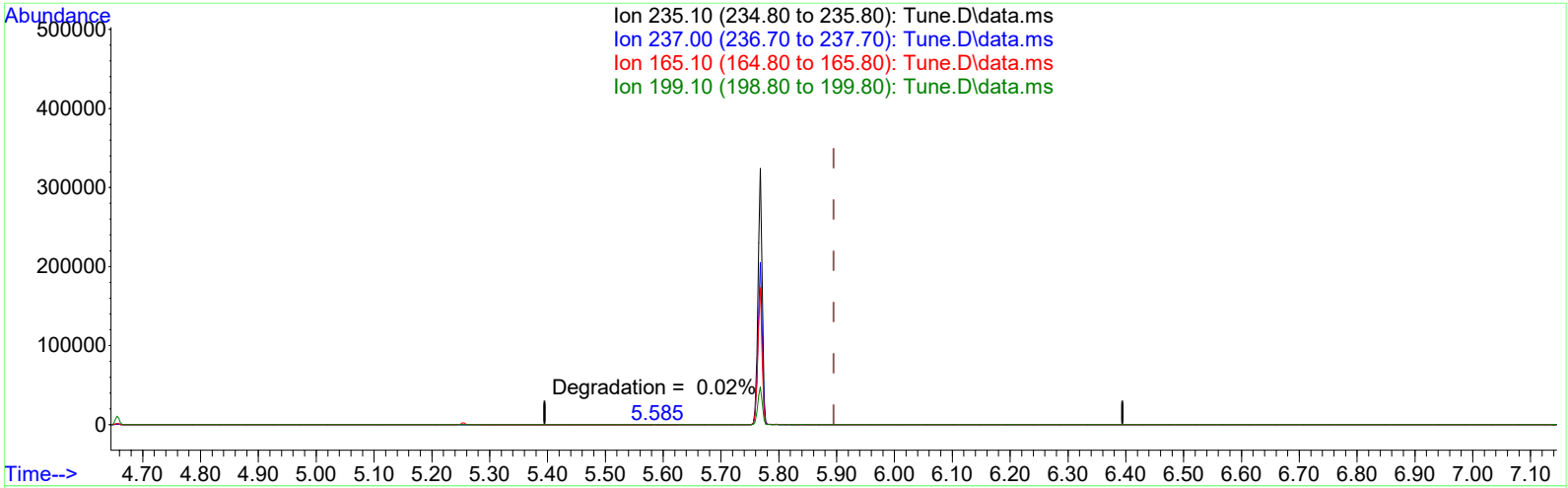
Spectrum Information: Average of 4.652 to 4.659 min.

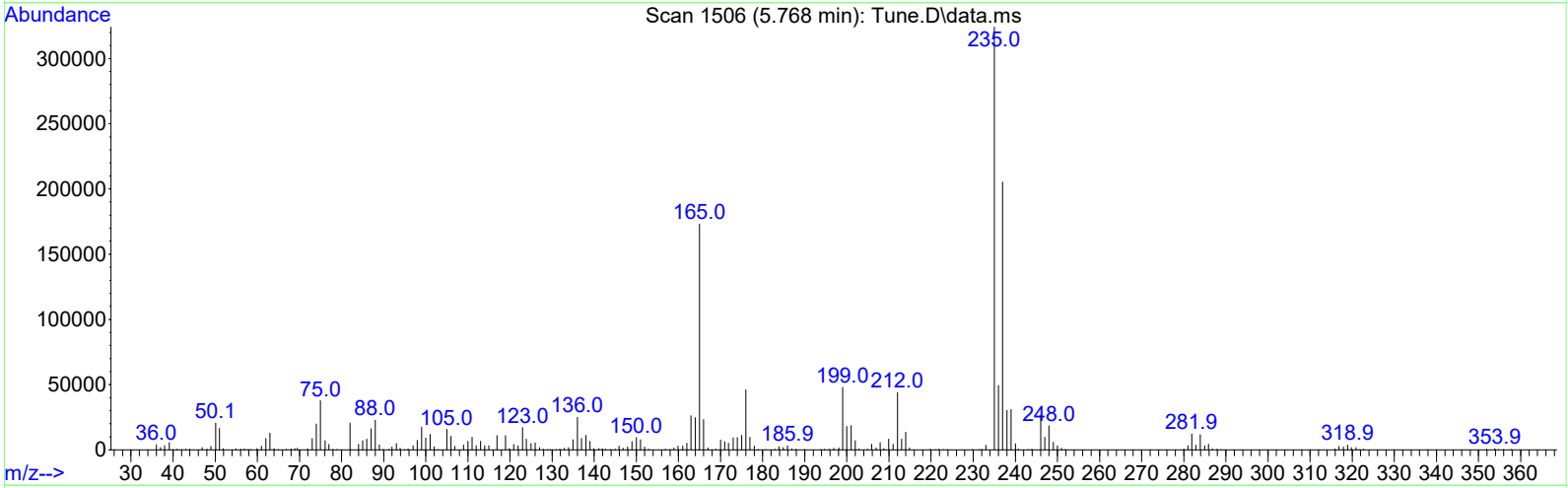
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	61.1	67976	PASS
68	69	0.00	2	1.9	1102	PASS
69	69	100	100	100.0	58955	PASS
70	69	0.00	2	0.4	240	PASS
127	198	10	80	59.4	66072	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	111168	PASS
199	198	5	9	7.4	8175	PASS
275	198	10	60	24.4	27139	PASS
365	198	1	100	2.6	2928	PASS
441	442	0.01	24	17.3	15883	PASS
442	198	50	100	82.8	92053	PASS
443	442	15	24	18.3	16858	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : Tune.D
Acq On : 23 Feb 2024 02:09 pm
Operator : SV125:dv
Sample : TUNE
Misc : WG1889366,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 23 14:38:10 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 10 10:58:38 2023
Response via : Continuing Cal File:





CHROMtools™ [TUNE]

(6) ddt (T)

5.768min (-0.127) 26.77

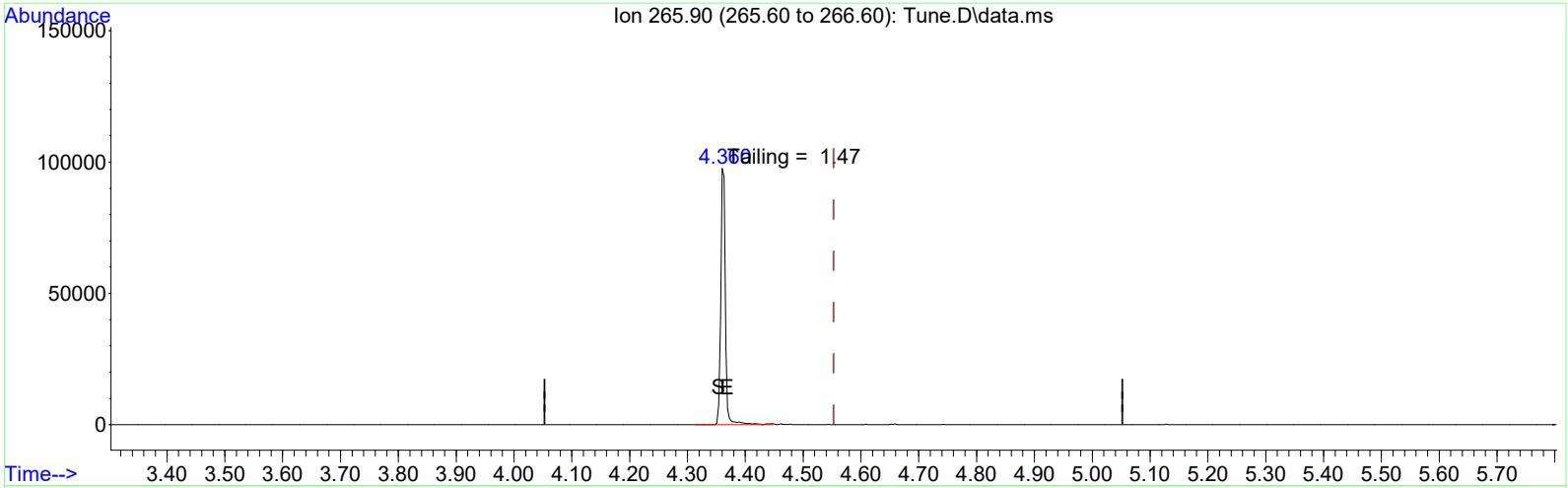
response 163155

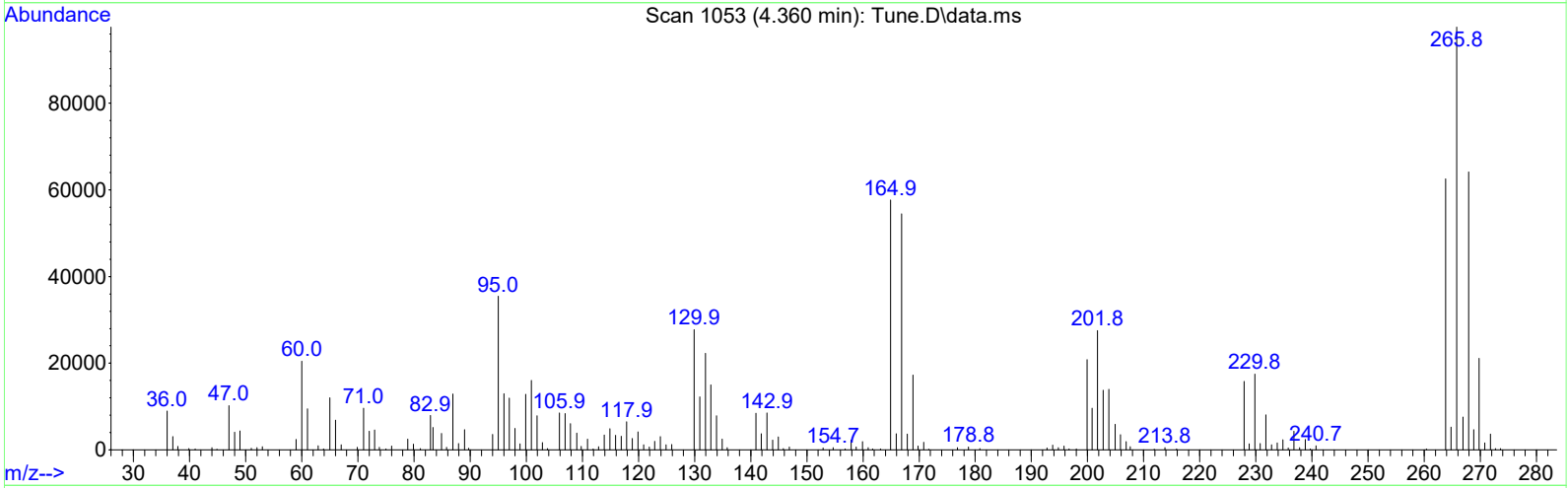
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.05
165.10	53.30	53.40
199.10	17.10	15.84

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : Tune.D
Acq On : 23 Feb 2024 02:09 pm
Operator : SV125:dv
Sample : TUNE
Misc : WG1889366,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 23 14:38:10 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 10 10:58:38 2023
Response via : Continuing Cal File:





CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.360min (-0.193) 25.53

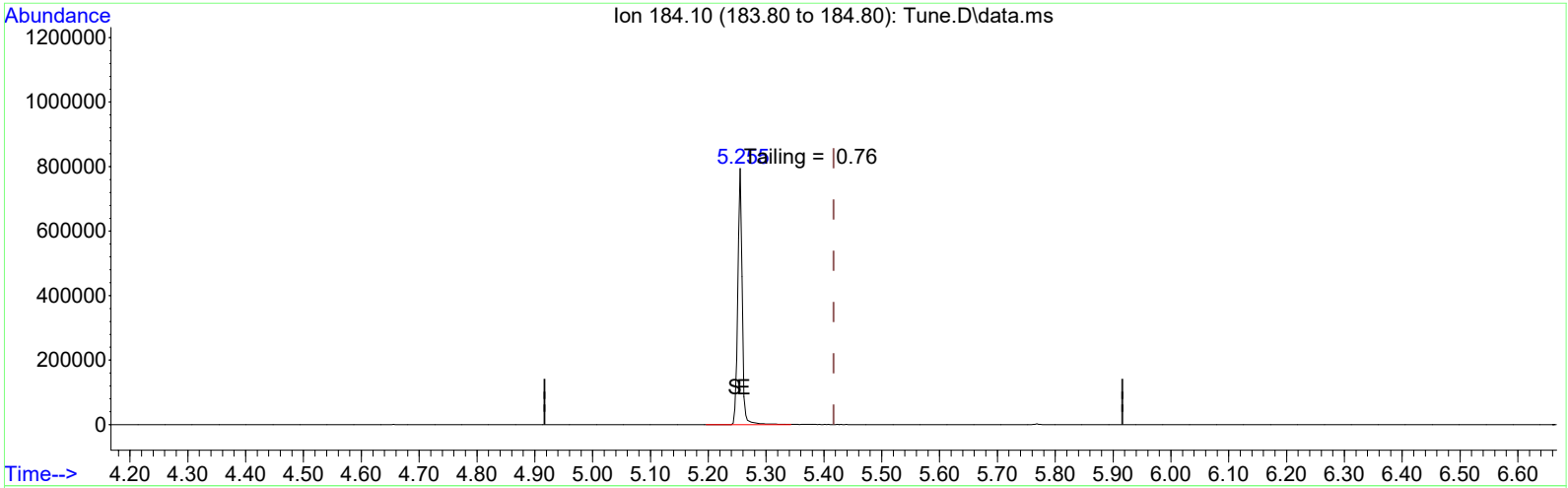
response 53615

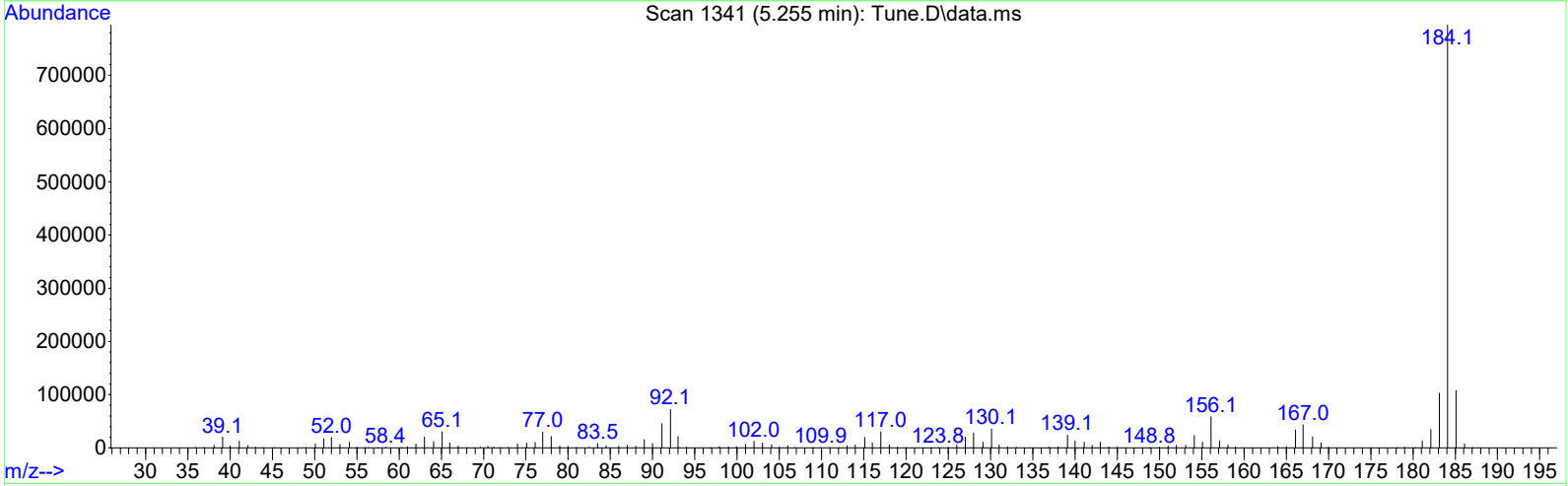
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : Tune.D
Acq On : 23 Feb 2024 02:09 pm
Operator : SV125:dv
Sample : TUNE
Misc : WG1889366,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 23 14:38:10 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 10 10:58:38 2023
Response via : Continuing Cal File:





CHROMtools™ [TUNE]

(3) benzidine (T)

5.255min (-0.162) 41.53

response 422770

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL10.D
Acq On : 23 Feb 2024 02:31 pm
Operator : SV125:dv
Sample : IL10,32,,5000.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 12:04:22 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:04:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.998	152	363816	4000.000	ng/ml	-0.01
Standard Area 1 = 370269			Recovery = 98.26%			
9) Naphthalene-d8	2.654	136	1334115	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 99.59%			
18) Acenaphthene-d10	3.630	164	810975	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 101.20%			
23) Phenanthrene-d10	4.465	188	1726031	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 98.81%			
32) Chrysene-d12	6.018	240	1500853	4000.000	ng/ml	0.04
Standard Area 1 = 1479229			Recovery = 101.46%			
37) Perylene-d12	7.047	264	1718595	4000.000	ng/ml	0.05
Standard Area 1 = 1571448			Recovery = 109.36%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.422	112	506297	4705.303	ng/ml	-0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 94.11%			
4) Phenol-d6	1.821	99	639491	5133.422	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 102.67%			
8) Nitrobenzene-d5	2.276	82	556485	5514.509	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 220.58%#			
14) 2-Fluorobiphenyl	3.257	172	1403510	4217.492	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 168.70%#			
22) 2,4,6-Tribromophenol	4.076	330	260135	5750.325	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 115.01%#			
31) 4-Terphenyl-d14	5.389	244	1559671	4422.204	ng/ml	0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 176.89%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.870	93	516750	4643.589	ng/ml	100
6) n-nitrosodi-n-propylamine	2.202	70	414132	5779.264	ng/ml	99
7) Hexachloroethane	2.248	117	238693	4837.361	ng/ml	100
10) Naphthalene	2.666	128	1701115	4567.168	ng/ml#	98
11) Hexachlorobutadiene	2.739	225	334116	4707.418	ng/ml	100
12) 2-Methylnaphthalene	3.045	142	1129287	4733.111	ng/ml	100
13) 1-Methylnaphthalene	3.102	142	1078614	4775.323	ng/ml	99
15) 2-Chloronaphthalene	3.314	162	1300409	4900.002	ng/ml	99
16) 2,6-Dinitrotoluene	3.519	165	327096	4985.120	ng/ml	97
17) Acenaphthylene	3.548	152	2055392	5206.105	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL10.D
Acq On : 23 Feb 2024 02:31 pm
Operator : SV125:dv
Sample : IL10,32,,5000.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 12:04:22 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:04:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.648	153	1336960	4821.914	ng/ml	99
20) 2,4-Dinitrotoluene	3.746	165	463979	4984.020	ng/ml	96
21) Fluorene	3.936	166	1534860	4837.115	ng/ml	98
24) 4,6-Dinitro-o-cresol	3.979	198	245095	4973.111	ng/ml	99
25) Hexachlorobenzene	4.252	284	561033	4625.620	ng/ml	100
26) Pentachlorophenol	4.364	266	350185	4966.742	ng/ml	100
27) Phenanthrene	4.477	178	2268916	4548.566	ng/ml	97
28) Anthracene	4.506	178	2347703	4869.272	ng/ml	97
29) Fluoranthene	5.156	202	2718601	4697.149	ng/ml	98
30) Pyrene	5.287	202	2847062	4704.571	ng/ml	97
33) Benzo[a]anthracene	6.013	228	2927157	4898.166	ng/ml	98
34) 3,3'-Dichlorobenzene	6.007	252	1282003	4987.018	ng/ml	99
35) Chrysene	6.035	228	2666438	4974.597	ng/ml	96
36) Bis(2-ethylhexyl)phtha...	6.059	149	2026451	5032.010	ng/ml	97
38) Benzo[b]fluoranthene	6.736	252	3168144	5296.193	ng/ml	98
39) Benzo[k]fluoranthene	6.758	252	2622119	4704.237	ng/ml	97
40) Benzo[a]pyrene	6.996	252	2775491	5595.329	ng/ml	98
41) Indeno[1,2,3-cd]pyrene	8.091	276	2939112	5948.217	ng/ml	96
42) Dibenzo[a,h]anthracene	8.125	278	2689364M6	5871.330	ng/ml	
43) Benzo[g,h,i]perylene	8.386	276	2875718	5783.731	ng/ml	99

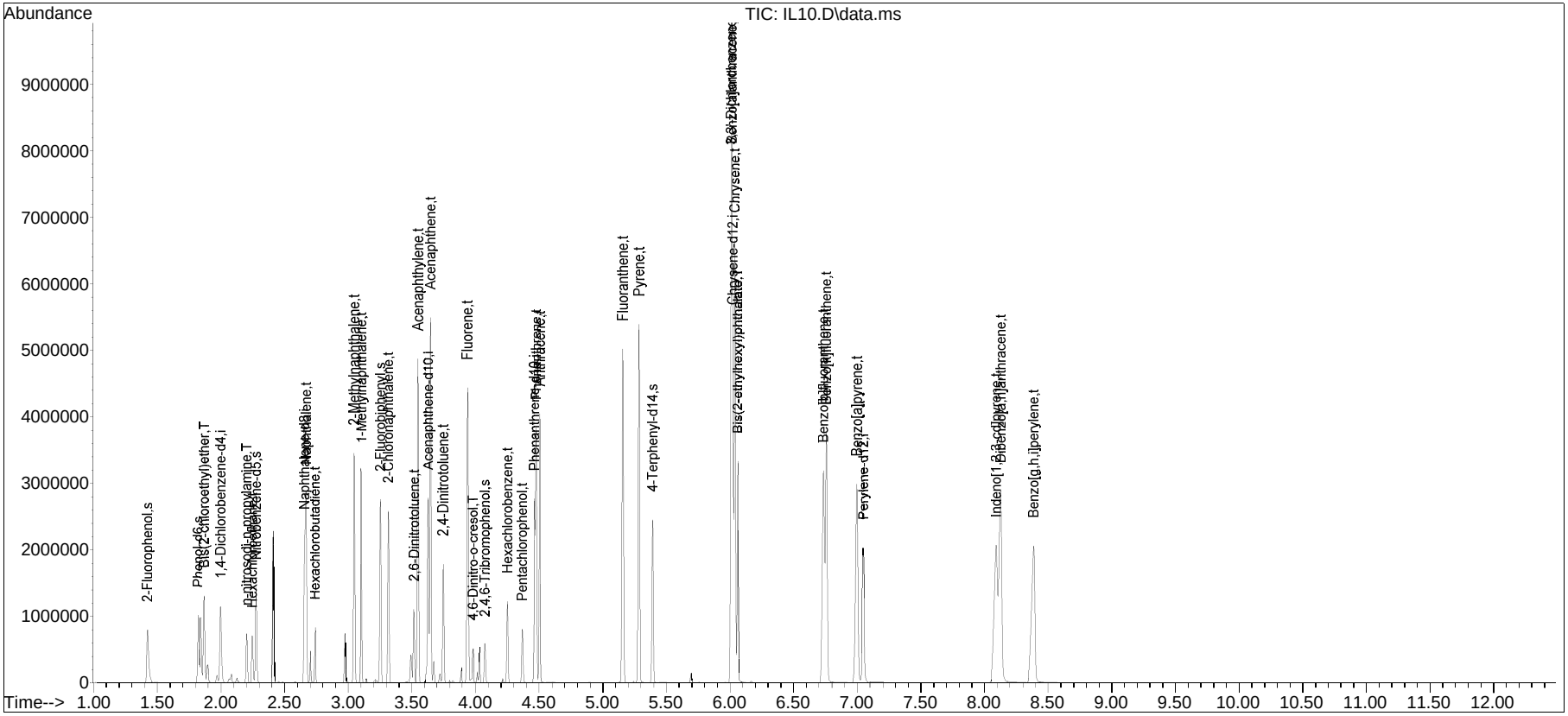
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL10.D
Acq On : 23 Feb 2024 02:31 pm
Operator : SV125:dv
Sample : IL10,32,,5000.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 12:04:22 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:04:51 2024
Response via : Initial Calibration

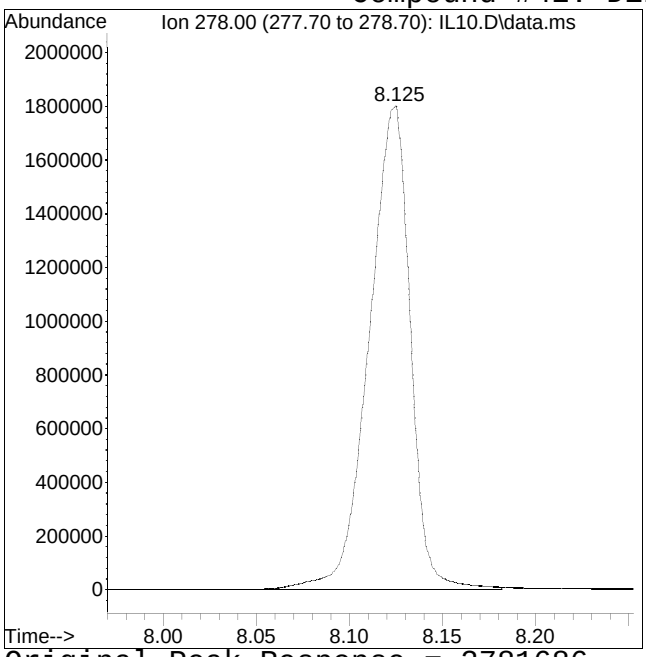
Sub List : Default - All compounds listedical\IL8.D•



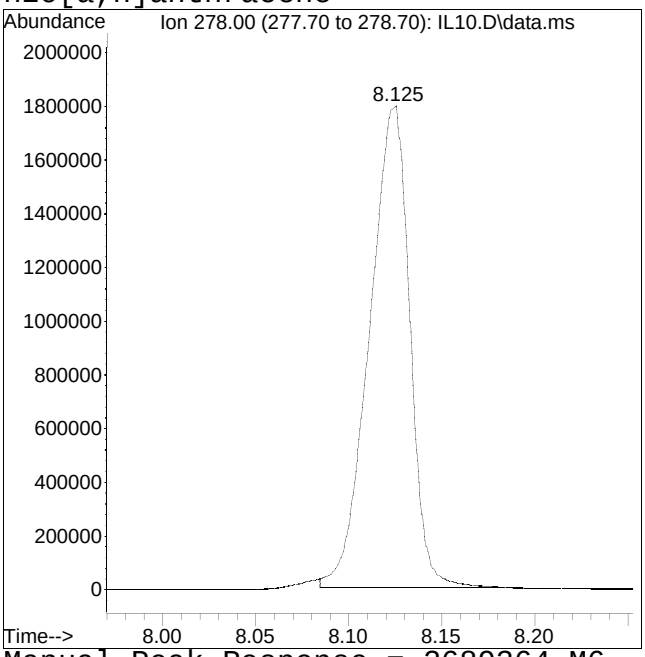
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL10.D Operator : SV125:dv
Date Inj'd : 2/23/2024 2:31 pm Instrument : SV125
Sample : IL10,32,,5000.0 ng/ml Quant Date : 2/27/2024 12:04 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 2781686



Manual Peak Response = 2689364 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL9.D
Acq On : 23 Feb 2024 02:47 pm
Operator : SV125:dv
Sample : IL9,32,,2500.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 20 14:04:22 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.008	152	374548	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 101.16%			
9) Naphthalene-d8	2.658	136	1355416	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 101.18%			
18) Acenaphthene-d10	3.630	164	804704	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 100.42%			
23) Phenanthrene-d10	4.462	188	1698153	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 97.22%			
32) Chrysene-d12	5.977	240	1411359	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 95.41%			
37) Perylene-d12	6.996	264	1547553	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 98.48%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.435	112	273127	2465.592	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 49.31%			
4) Phenol-d6	1.831	99	333431	2599.877	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.00%			
8) Nitrobenzene-d5	2.283	82	288470	2776.696	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 111.07%			
14) 2-Fluorobiphenyl	3.257	172	734268	2359.200	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 94.37%			
22) 2,4,6-Tribromophenol	4.073	330	129291	2880.270	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 57.61%			
31) 4-Terphenyl-d14	5.374	244	802653	2313.159	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 92.53%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.880	93	274621	2402.887	ng/ml	99
6) n-nitrosodi-n-propylamine	2.211	70	210661	2855.566	ng/ml	99
7) Hexachloroethane	2.257	117	126372	2487.677	ng/ml	100
10) Naphthalene	2.670	128	894622	2364.169	ng/ml#	99
11) Hexachlorobutadiene	2.743	225	173419	2404.963	ng/ml	100
12) 2-Methylnaphthalene	3.049	142	577190	2381.151	ng/ml	100
13) 1-Methylnaphthalene	3.103	142	547673	2386.623	ng/ml	100
15) 2-Chloronaphthalene	3.316	162	664945	2466.289	ng/ml	100
16) 2,6-Dinitrotoluene	3.519	165	163824	2526.799	ng/ml	97
17) Acenaphthylene	3.548	152	1063814	2652.220	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL9.D
Acq On : 23 Feb 2024 02:47 pm
Operator : SV125:dv
Sample : IL9,32,,2500.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 20 14:04:22 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.648	153	682286	2479.927	ng/ml	100
20) 2,4-Dinitrotoluene	3.745	165	226877	2529.456	ng/ml	97
21) Fluorene	3.936	166	789986	2509.045	ng/ml	99
24) 4,6-Dinitro-o-cresol	3.972	198	114865	2566.762	ng/ml	99
25) Hexachlorobenzene	4.249	284	284699M6	2422.810	ng/ml	
26) Pentachlorophenol	4.361	266	166243	2574.001	ng/ml	100
27) Phenanthrene	4.474	178	1176059	2394.973	ng/ml	99
28) Anthracene	4.503	178	1217463	2566.542	ng/ml	99
29) Fluoranthene	5.147	202	1429055	2509.640	ng/ml	99
30) Pyrene	5.272	202	1473861	2475.473	ng/ml	99
33) Benzo[a]anthracene	5.972	228	1423599	2529.153	ng/ml	99
34) 3,3'-Dichlorobenzene	5.966	252	602219	2523.652	ng/ml	99
35) Chrysene	5.994	228	1323530	2625.809	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.015	149	967351	2566.586	ng/ml	99
38) Benzo[b]fluoranthene	6.685	252	1416118	2628.772	ng/ml	99
39) Benzo[k]fluoranthene	6.707	252	1343998	2674.921	ng/ml	99
40) Benzo[a]pyrene	6.943	252	1282960	2872.059	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.037	276	1282881	2883.043	ng/ml	99
42) Dibenzo[a,h]anthracene	8.072	278	1159221M6	2810.268	ng/ml	
43) Benzo[g,h,i]perylene	8.329	276	1238219	2764.895	ng/ml	99

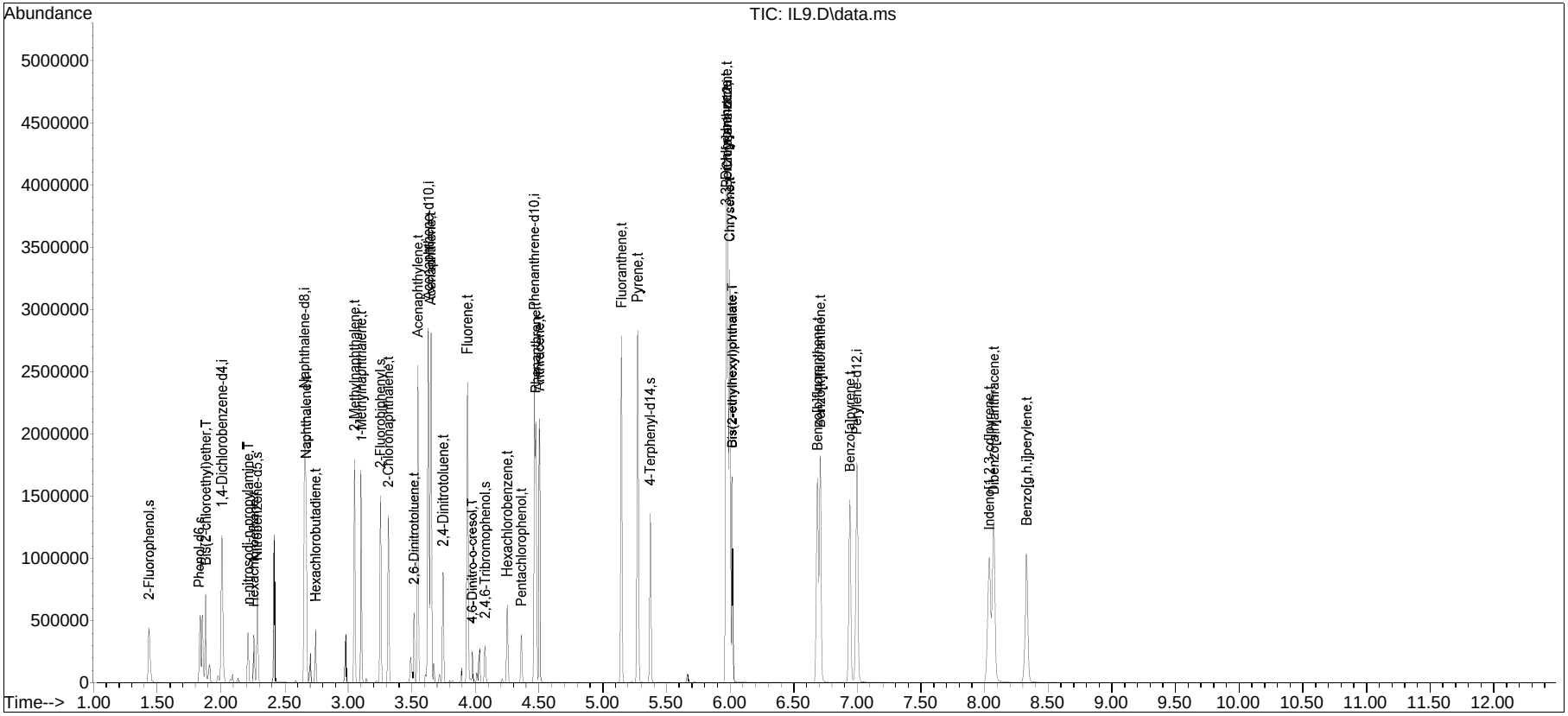
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL9.D
Acq On : 23 Feb 2024 02:47 pm
Operator : SV125:dv
Sample : IL9,32,,2500.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 20 14:04:22 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:39 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

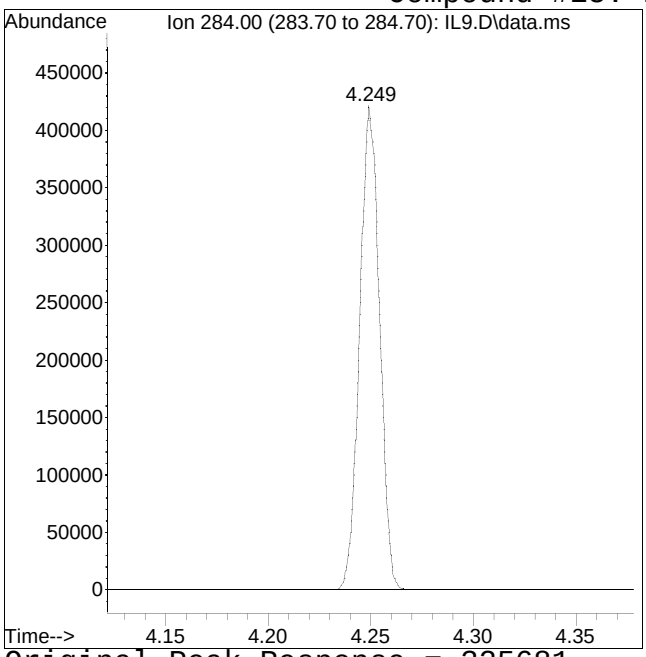


Manual Integration Report

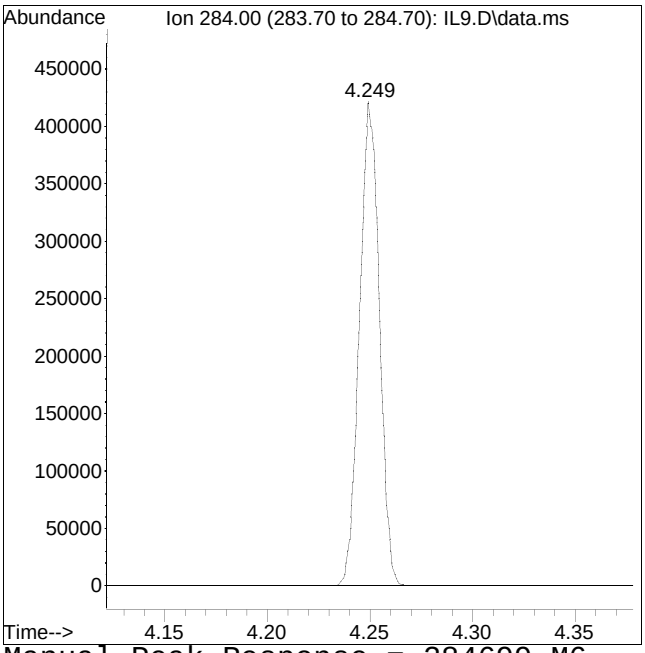
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL9.D
Date Inj'd : 2/23/2024 2:47 pm
Sample : IL9,32,,2500.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #25: Hexachlorobenzene



Original Peak Response = 325681



Manual Peak Response = 284699 M6

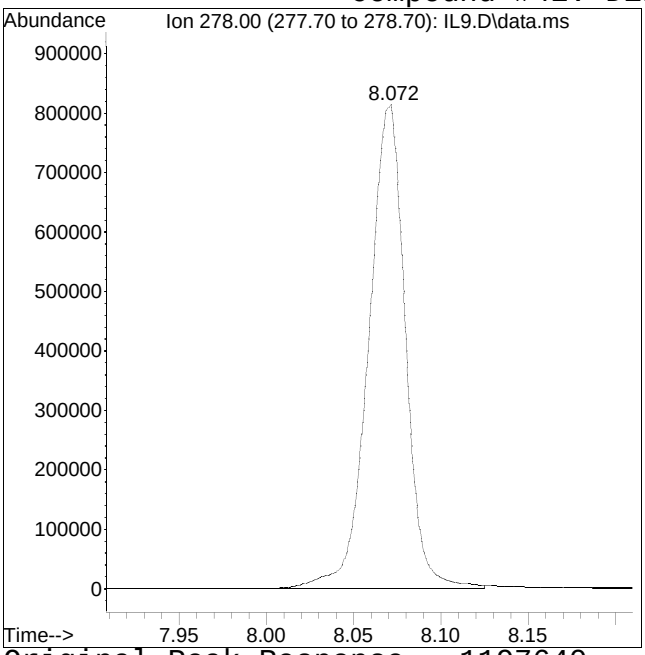
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

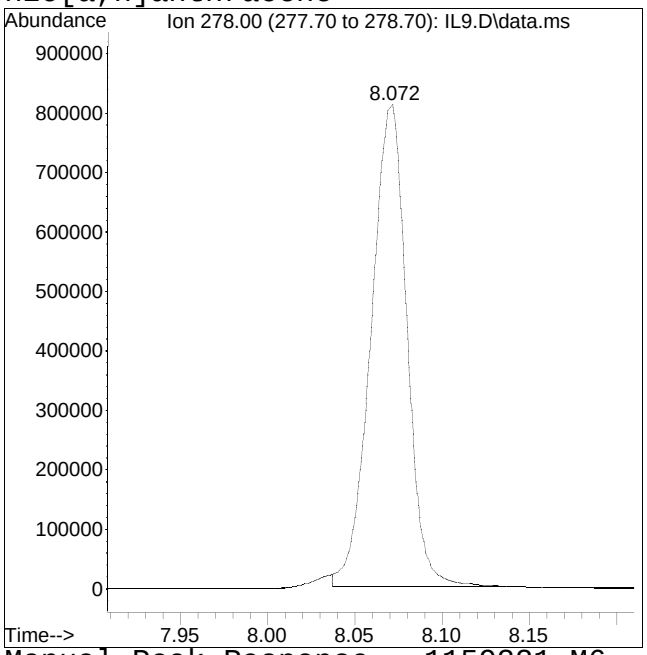
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL9.D
Date Inj'd : 2/23/2024 2:47 pm
Sample : IL9,32,,2500.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 1197640



Manual Peak Response = 1159221 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL8.D
Acq On : 23 Feb 2024 03:03 pm
Operator : SV125:dv
Sample : IL8,32,,1000.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 12:05:15 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.008	152	370248	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 99.99%			
9) Naphthalene-d8	2.661	136	1339352	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 99.99%			
18) Acenaphthene-d10	3.629	164	801363	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 100.00%			
23) Phenanthrene-d10	4.461	188	1746794	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 100.00%			
32) Chrysene-d12	5.974	240	1479229	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 100.00%			
37) Perylene-d12	6.992	264	1570388	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 99.93%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.438	112	114757	1047.974	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.96%			
4) Phenol-d6	1.834	99	135255	1066.878	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.34%			
8) Nitrobenzene-d5	2.286	82	115052	1120.306	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 44.81%			
14) 2-Fluorobiphenyl	3.256	172	308424	923.178	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 36.93%			
22) 2,4,6-Tribromophenol	4.072	330	53145	1188.869	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 23.78%			
31) 4-Terphenyl-d14	5.373	244	362780	1016.380	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.66%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.883	93	113271	1000.187	ng/ml	100
6) n-nitrosodi-n-propylamine	2.211	70	83116	1139.744	ng/ml	100
7) Hexachloroethane	2.260	117	51928	1034.093	ng/ml	100
10) Naphthalene	2.670	128	369111	987.117	ng/ml#	100
11) Hexachlorobutadiene	2.746	225	71617	1005.079	ng/ml	100
12) 2-Methylnaphthalene	3.049	142	239989	1001.918	ng/ml	100
13) 1-Methylnaphthalene	3.103	142	224672	990.796	ng/ml	100
15) 2-Chloronaphthalene	3.316	162	273274	1025.683	ng/ml	100
16) 2,6-Dinitrotoluene	3.519	165	64542	1033.383	ng/ml	100
17) Acenaphthylene	3.548	152	440782	1112.092	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL8.D
Acq On : 23 Feb 2024 03:03 pm
Operator : SV125:dv
Sample : IL8,32,,1000.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 12:05:15 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.648	153	281932	1029.020	ng/ml	100
20) 2,4-Dinitrotoluene	3.745	165	89540	1031.134	ng/ml	100
21) Fluorene	3.935	166	334058	1065.412	ng/ml	100
24) 4,6-Dinitro-o-cresol	3.972	198	43490	1010.202	ng/ml	100
25) Hexachlorobenzene	4.248	284	123897	1009.367	ng/ml	100
26) Pentachlorophenol	4.364	266	64641	1024.044	ng/ml	100
27) Phenanthrene	4.473	178	515144	1020.450	ng/ml	100
28) Anthracene	4.502	178	528305	1082.711	ng/ml	100
29) Fluoranthene	5.146	202	634470	1083.195	ng/ml	100
30) Pyrene	5.271	202	662200	1081.233	ng/ml	100
33) Benzo[a]anthracene	5.966	228	625258	1054.945	ng/ml	100
34) 3,3'-Dichlorobenzene	5.960	252	251360	1021.540	ng/ml	100
35) Chrysene	5.988	228	597671	1131.335	ng/ml	100
36) Bis(2-ethylhexyl)phtha...	6.009	149	378431	973.491	ng/ml	100
38) Benzo[b]fluoranthene	6.675	252	644916	1179.855	ng/ml	100
39) Benzo[k]fluoranthene	6.697	252	547875	1075.684	ng/ml	100
40) Benzo[a]pyrene	6.933	252	534859	1180.026	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.018	276	509265	1127.927	ng/ml	100
42) Dibenzo[a,h]anthracene	8.052	278	472614M6	1129.172	ng/ml	
43) Benzo[g,h,i]perylene	8.310	276	499665	1099.784	ng/ml	100

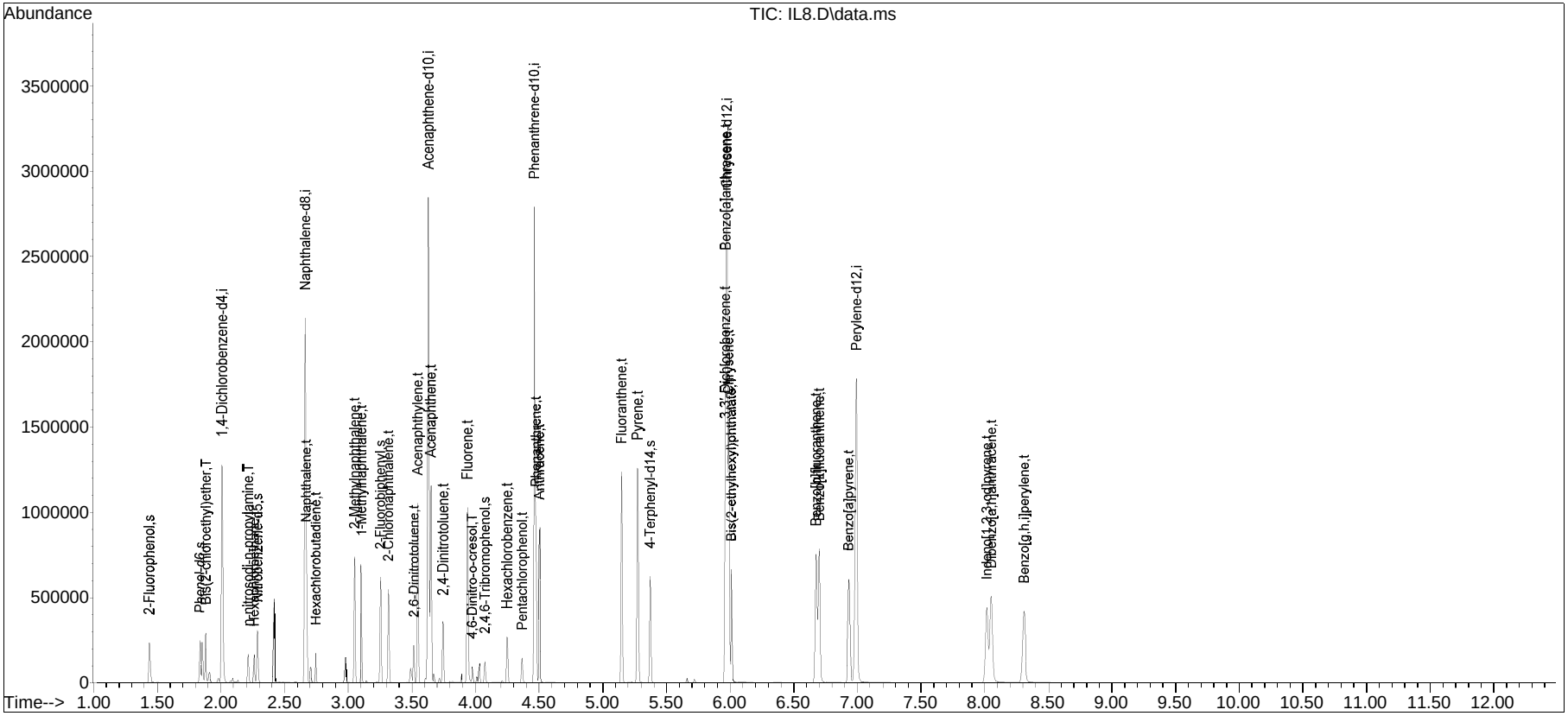
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL8.D
Acq On : 23 Feb 2024 03:03 pm
Operator : SV125:dv
Sample : IL8,32,,1000.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 12:05:15 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

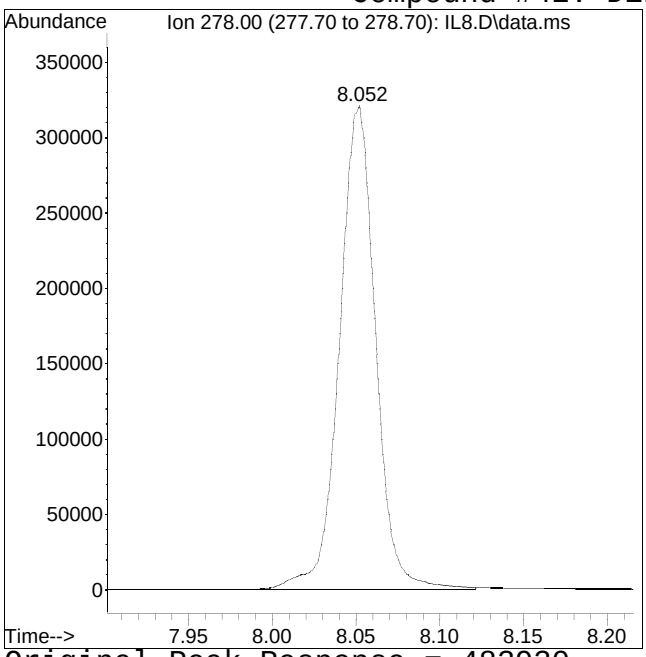


Manual Integration Report

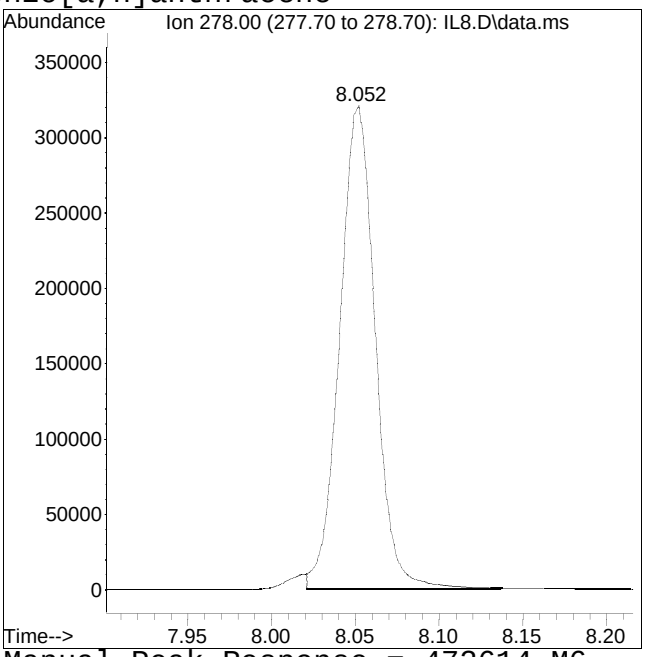
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL8.D
Date Inj'd : 2/23/2024 3:03 pm
Sample : IL8,32,,1000.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:05 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 483930



Manual Peak Response = 472614 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL7.D
Acq On : 23 Feb 2024 03:19 pm
Operator : SV125:dv
Sample : IL7,32,,500.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 27 12:05:05 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.010	152	378825	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 102.31%			
9) Naphthalene-d8	2.663	136	1345141	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 100.42%			
18) Acenaphthene-d10	3.632	164	786799	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 98.18%			
23) Phenanthrene-d10	4.464	188	1687716	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 96.62%			
32) Chrysene-d12	5.974	240	1447422	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 97.85%			
37) Perylene-d12	6.992	264	1519856	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 96.72%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.443	112	58330	520.616	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 10.41%#			
4) Phenol-d6	1.836	99	67308	518.898	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 10.38%#			
8) Nitrobenzene-d5	2.288	82	56475	537.468	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 21.50%#			
14) 2-Fluorobiphenyl	3.258	172	153844	458.506	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 18.34%#			
22) 2,4,6-Tribromophenol	4.072	330	24424	556.486	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 11.13%#			
31) 4-Terphenyl-d14	5.376	244	172830	501.157	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 20.05%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.885	93	57209	493.720	ng/ml	100
6) n-nitrosodi-n-propylamine	2.214	70	39659	531.519	ng/ml	99
7) Hexachloroethane	2.262	117	25926	504.600	ng/ml	99
10) Naphthalene	2.672	128	183753	489.298	ng/ml#	100
11) Hexachlorobutadiene	2.749	225	35860	501.096	ng/ml	100
12) 2-Methylnaphthalene	3.052	142	120440	500.655	ng/ml	99
13) 1-Methylnaphthalene	3.106	142	111607	490.065	ng/ml	100
15) 2-Chloronaphthalene	3.318	162	133817	500.096	ng/ml	100
16) 2,6-Dinitrotoluene	3.519	165	28135	461.271	ng/ml	98
17) Acenaphthylene	3.550	152	210683	529.265	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL7.D
Acq On : 23 Feb 2024 03:19 pm
Operator : SV125:dv
Sample : IL7,32,,500.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 27 12:05:05 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.648	153	136442	507.216	ng/ml	99
20) 2,4-Dinitrotoluene	3.745	165	37967	460.141	ng/ml	95
21) Fluorene	3.938	166	159664	518.643	ng/ml	100
24) 4,6-Dinitro-o-cresol	3.975	198	17904	452.604	ng/ml	94
25) Hexachlorobenzene	4.251	284	59874	504.858	ng/ml	100
26) Pentachlorophenol	4.363	266	27907	468.286	ng/ml	99
27) Phenanthrene	4.476	178	245508	503.351	ng/ml	100
28) Anthracene	4.505	178	246841	523.585	ng/ml	100
29) Fluoranthene	5.146	202	297547	525.767	ng/ml	100
30) Pyrene	5.274	202	312460	528.040	ng/ml	100
33) Benzo[a]anthracene	5.968	228	307431	525.891	ng/ml	100
34) 3,3'-Dichlorobenzene	5.960	252	110910	471.394	ng/ml#	99
35) Chrysene	5.987	228	273574	529.230	ng/ml	98
36) Bis(2-ethylhexyl)phtha...	6.009	149	158173	430.001	ng/ml	100
38) Benzo[b]fluoranthene	6.675	252	277073	523.750	ng/ml	95
39) Benzo[k]fluoranthene	6.697	252	286490	581.189	ng/ml	95
40) Benzo[a]pyrene	6.936	252	246835	562.683	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.024	276	233317	533.935	ng/ml	99
42) Dibenzo[a,h]anthracene	8.059	278	222482M6	549.228	ng/ml	
43) Benzo[g,h,i]perylene	8.316	276	237266	539.596	ng/ml	100

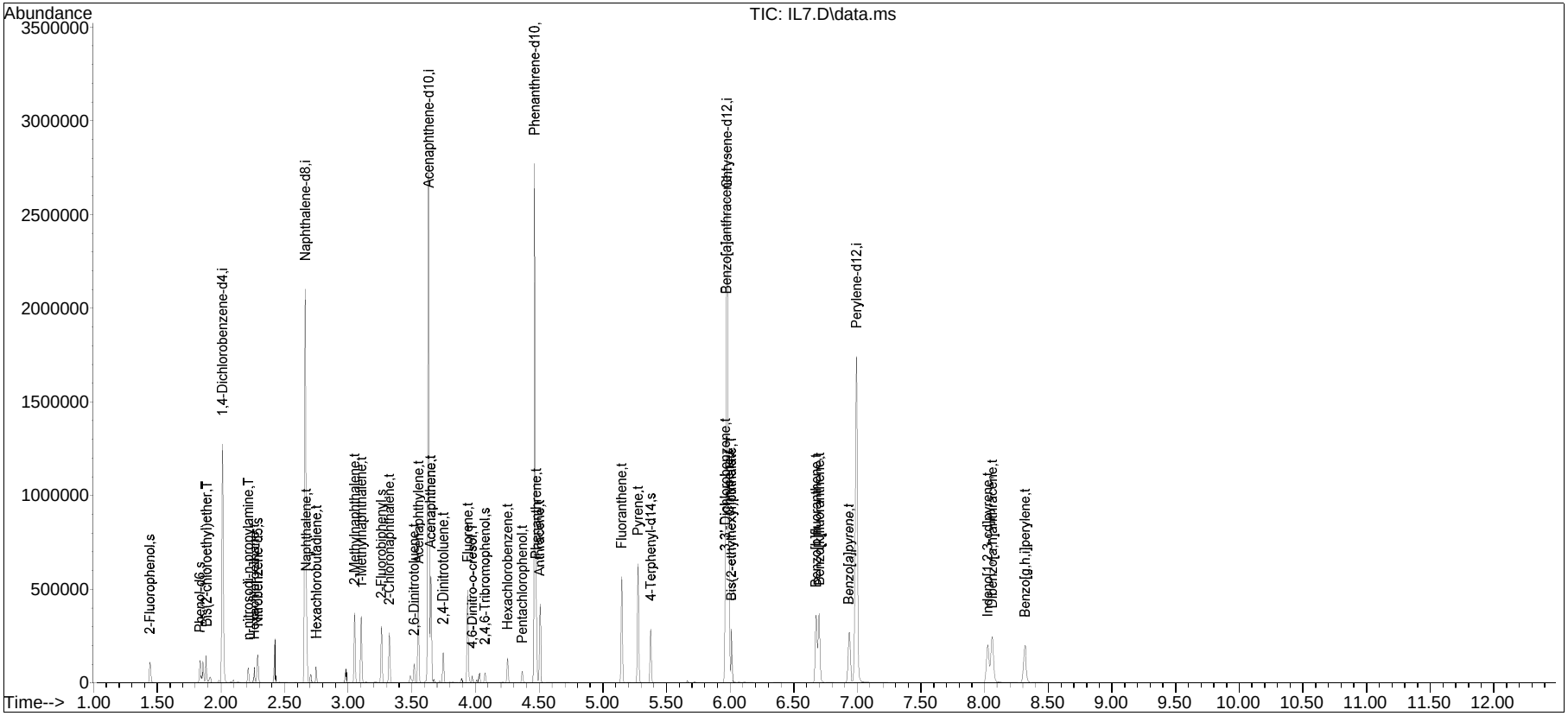
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL7.D
Acq On : 23 Feb 2024 03:19 pm
Operator : SV125:dv
Sample : IL7,32,,500.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 27 12:05:05 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:34 2024
Response via : Initial Calibration

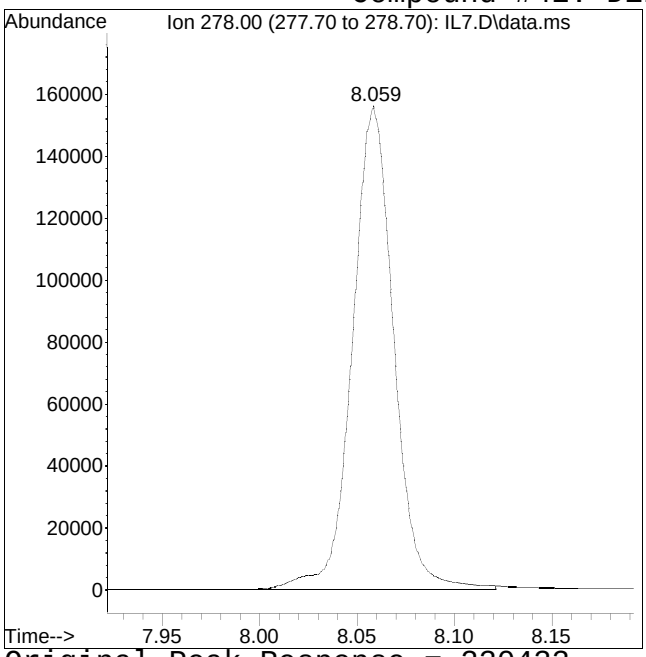
Sub List : Default - All compounds listedical\IL8.D•



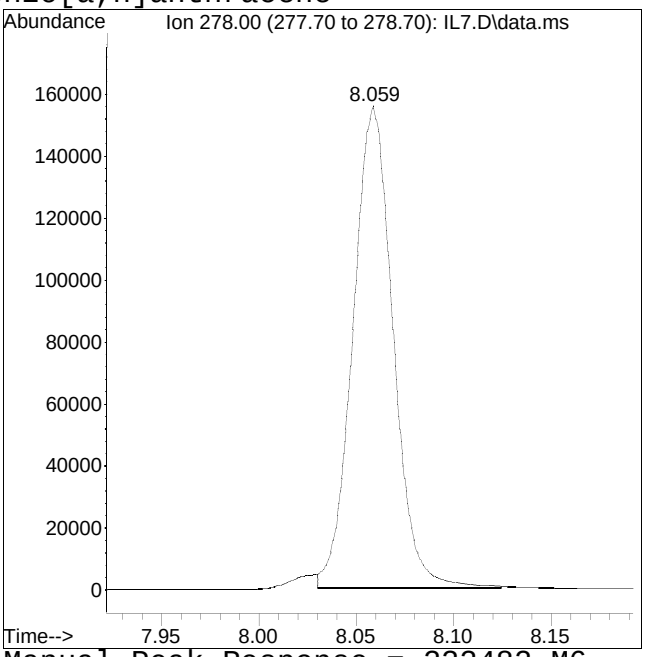
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL7.D Operator : SV125:dv
Date Inj'd : 2/23/2024 3:19 pm Instrument : SV125
Sample : IL7,32,,500.0 ng/ml Quant Date : 2/27/2024 12:05 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 230433



Manual Peak Response = 222482 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL6.D
Acq On : 23 Feb 2024 03:35 pm
Operator : SV125:dv
Sample : IL6,32,,100.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 20 14:04:14 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.011	152	388879	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 105.03%			
9) Naphthalene-d8	2.661	136	1346733	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 100.54%			
18) Acenaphthene-d10	3.632	164	774501	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 96.65%			
23) Phenanthrene-d10	4.464	188	1680592	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 96.21%			
32) Chrysene-d12	5.971	240	1475614	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 99.76%			
37) Perylene-d12	6.989	264	1492095	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 94.95%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.443	112	11833	102.883	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 2.06%#			
4) Phenol-d6	1.837	99	13489	101.302	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 2.03%#			
8) Nitrobenzene-d5	2.289	82	10641	98.651	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.95%#			
14) 2-Fluorobiphenyl	3.260	172	31393	101.516	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.06%#			
22) 2,4,6-Tribromophenol	4.072	330	4223	97.746	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.95%#			
31) 4-Terphenyl-d14	5.373	244	34329	99.966	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.886	93	12546M6	105.730	ng/ml	
6) n-nitrosodi-n-propylamine	2.214	70	7463	97.435	ng/ml	98
7) Hexachloroethane	2.263	117	5165	97.928	ng/ml	99
10) Naphthalene	2.673	128	36834	97.967	ng/ml#	99
11) Hexachlorobutadiene	2.746	225	7168	100.046	ng/ml	100
12) 2-Methylnaphthalene	3.052	142	24437	101.463	ng/ml	100
13) 1-Methylnaphthalene	3.105	142	22726	99.673	ng/ml	100
15) 2-Chloronaphthalene	3.319	162	26636	99.430	ng/ml	100
16) 2,6-Dinitrotoluene	3.519	165	4548	89.811	ng/ml	95
17) Acenaphthylene	3.548	152	39166	98.275	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL6.D
Acq On : 23 Feb 2024 03:35 pm
Operator : SV125:dv
Sample : IL6,32,,100.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 20 14:04:14 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.648	153	26440	99.850	ng/ml	98
20) 2,4-Dinitrotoluene	3.745	165	5751	89.205	ng/ml#	84
21) Fluorene	3.938	166	30285	99.938	ng/ml	99
24) 4,6-Dinitro-o-cresol	3.975	198	2676	89.432	ng/ml	89
25) Hexachlorobenzene	4.251	284	12040	103.532	ng/ml	99
26) Pentachlorophenol	4.364	266	4107	73.853	ng/ml	99
27) Phenanthrene	4.476	178	48915	100.653	ng/ml	97
28) Anthracene	4.503	178	46541	99.139	ng/ml	100
29) Fluoranthene	5.146	202	55709	98.856	ng/ml	100
30) Pyrene	5.274	202	58803	99.797	ng/ml	100
33) Benzo[a]anthracene	5.966	228	61466	96.333	ng/ml	98
34) 3,3'-Dichlorobenzene	5.958	252	18286	91.273	ng/ml#	90
35) Chrysene	5.985	228	54960	104.290	ng/ml	97
36) Bis(2-ethylhexyl)phtha...	6.007	149	25018	87.611	ng/ml	100
38) Benzo[b]fluoranthene	6.672	252	50530	97.286	ng/ml	100
39) Benzo[k]fluoranthene	6.694	252	51083	105.448	ng/ml	100
40) Benzo[a]pyrene	6.930	252	42640	99.003	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.015	276	41538	96.819	ng/ml	99
42) Dibenzo[a,h]anthracene	8.046	278	39864M6	100.233	ng/ml	
43) Benzo[g,h,i]perylene	8.301	276	43221	100.098	ng/ml	99

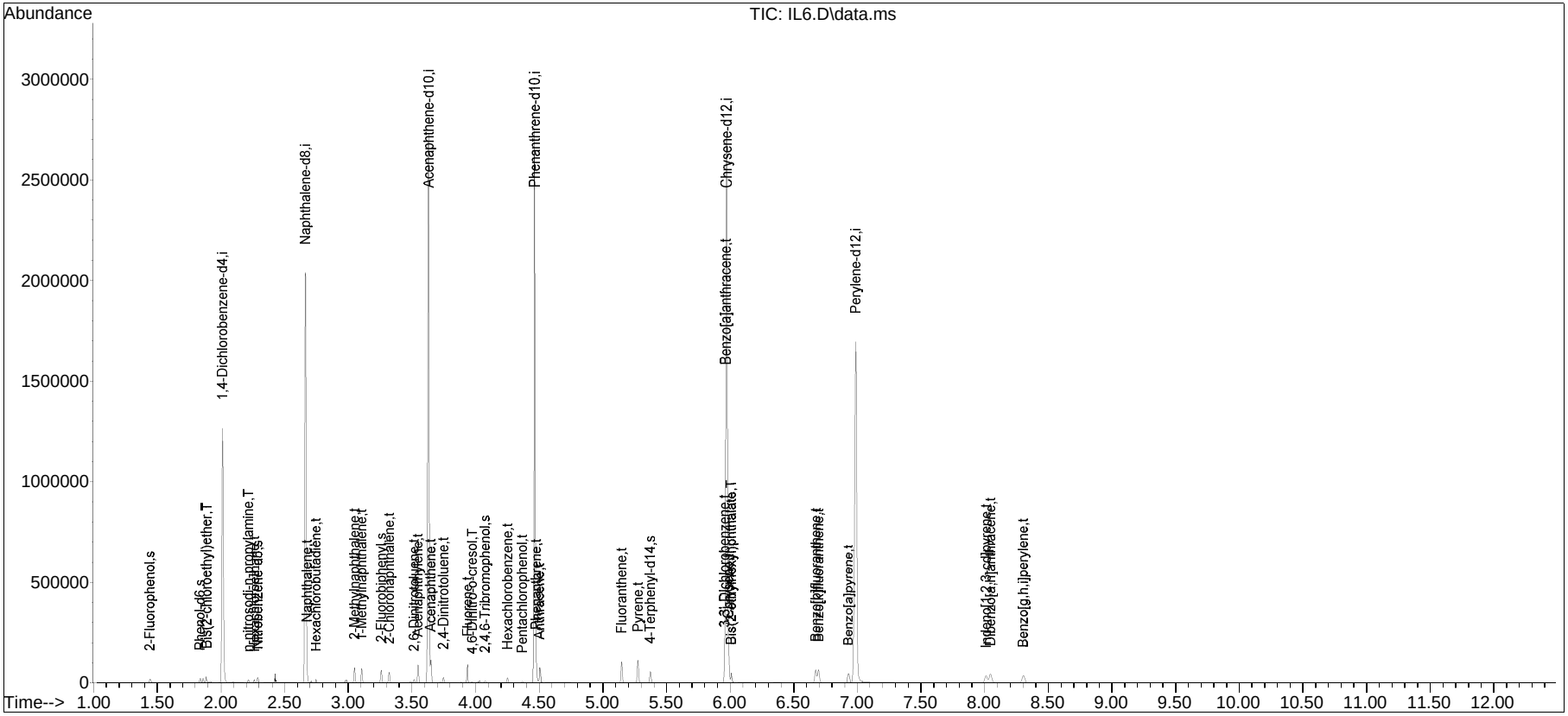
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL6.D
Acq On : 23 Feb 2024 03:35 pm
Operator : SV125:dv
Sample : IL6,32,,100.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 20 14:04:14 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:32 2024
Response via : Initial Calibration

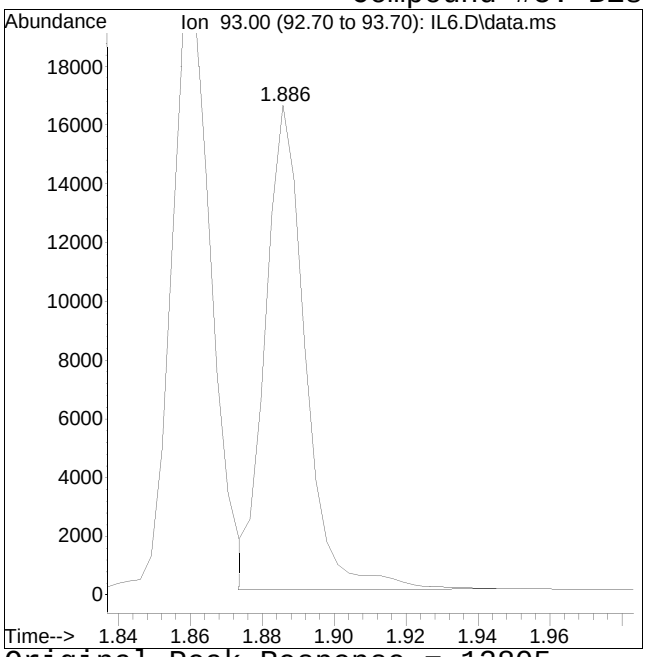
Sub List : Default - All compounds listedical\IL8.D•



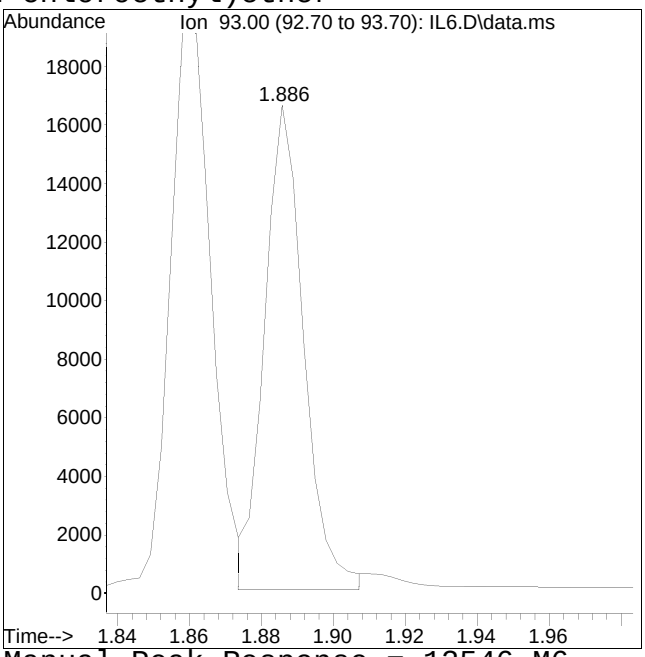
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL6.D Operator : SV125:dv
Date Inj'd : 2/23/2024 3:35 pm Instrument : SV125
Sample : IL6,32,,100.0 ng/ml Quant Date : 5/20/2024 2:04 pm

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 12805



Manual Peak Response = 12546 M6

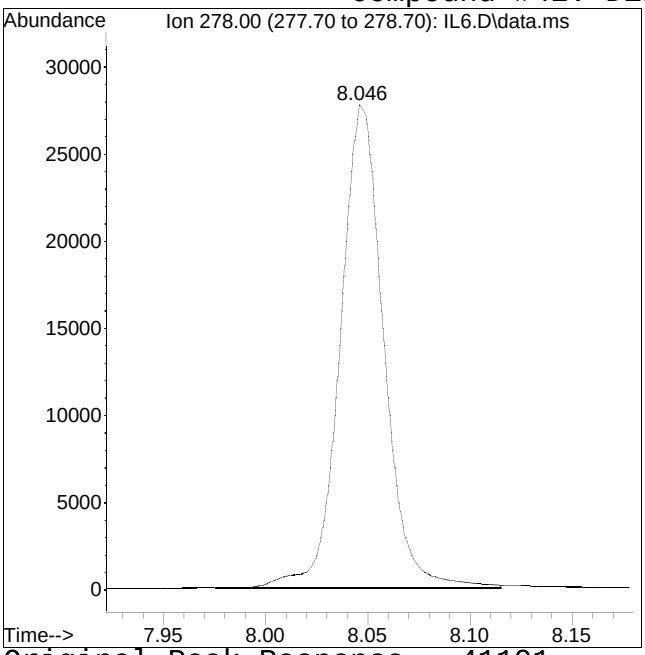
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

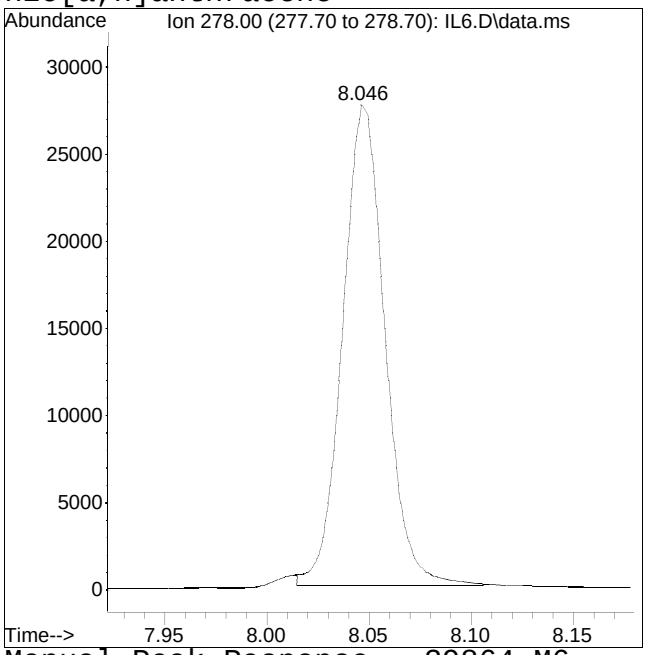
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL6.D
Date Inj'd : 2/23/2024 3:35 pm
Sample : IL6,32,,100.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 41191



Manual Peak Response = 39864 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL5.D
Acq On : 23 Feb 2024 03:51 pm
Operator : SV125:dv
Sample : IL5,32,,40.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 20 14:04:07 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.013	152	385590	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 104.14%			
9) Naphthalene-d8	2.664	136	1335003	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 99.66%			
18) Acenaphthene-d10	3.632	164	771966	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 96.33%			
23) Phenanthrene-d10	4.464	188	1660243	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 95.05%			
32) Chrysene-d12	5.971	240	1473450	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 99.61%			
37) Perylene-d12	6.992	264	1461570	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 93.01%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.446	112	4632	40.617	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.81%#			
4) Phenol-d6	1.840	99	5228	39.597	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.79%#			
8) Nitrobenzene-d5	2.291	82	4068	38.036	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.52%#			
14) 2-Fluorobiphenyl	3.262	172	12412M6	40.489	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.62%#			
22) 2,4,6-Tribromophenol	4.075	330	1553	36.064	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.72%#			
31) 4-Terphenyl-d14	5.376	244	13475	39.720	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.59%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.888	93	4803M6	40.822	ng/ml	
6) n-nitrosodi-n-propylamine	2.217	70	2839	37.381	ng/ml	97
7) Hexachloroethane	2.263	117	2040	39.008	ng/ml	100
10) Naphthalene	2.673	128	14612	39.205	ng/ml#	98
11) Hexachlorobutadiene	2.749	225	2849	40.114	ng/ml	100
12) 2-Methylnaphthalene	3.054	142	9652	40.427	ng/ml	100
13) 1-Methylnaphthalene	3.108	142	9163	40.541	ng/ml	99
15) 2-Chloronaphthalene	3.322	162	10462	39.397	ng/ml	99
16) 2,6-Dinitrotoluene	3.521	165	1734	45.610	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL5.D
Acq On : 23 Feb 2024 03:51 pm
Operator : SV125:dv
Sample : IL5,32,,40.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 20 14:04:07 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthylene	3.550	152	15059	38.118	ng/ml	99
19) Acenaphthene	3.650	153	10524	39.874	ng/ml	97
20) 2,4-Dinitrotoluene	3.747	165	2070	45.915	ng/ml#	81
21) Fluorene	3.938	166	11788	39.027	ng/ml	99
24) 4,6-Dinitro-o-cresol	3.974	198	910	46.766	ng/ml#	86
25) Hexachlorobenzene	4.251	284	4717	41.059	ng/ml	99
26) Pentachlorophenol	4.366	266	1449	29.241	ng/ml	99
27) Phenanthrene	4.476	178	19780	41.201	ng/ml#	91
28) Anthracene	4.505	178	18185	39.211	ng/ml	100
29) Fluoranthene	5.149	202	21607	38.812	ng/ml	100
30) Pyrene	5.274	202	22941	39.411	ng/ml	99
33) Benzo[a]anthracene	5.965	228	26514	36.810	ng/ml	95
34) 3,3'-Dichlorobenzene	5.960	252	6663	44.623	ng/ml#	76
35) Chrysene	5.985	228	22388	42.545	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.006	149	10155	50.294	ng/ml	99
38) Benzo[b]fluoranthene	6.675	252	19752	38.823	ng/ml	100
39) Benzo[k]fluoranthene	6.694	252	18067	38.074	ng/ml	99
40) Benzo[a]pyrene	6.932	252	15587	36.946	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.021	276	15274	36.345	ng/ml	99
42) Dibenzo[a,h]anthracene	8.052	278	14449M6	37.089	ng/ml	
43) Benzo[g,h,i]perylene	8.313	276	15873	37.529	ng/ml	99

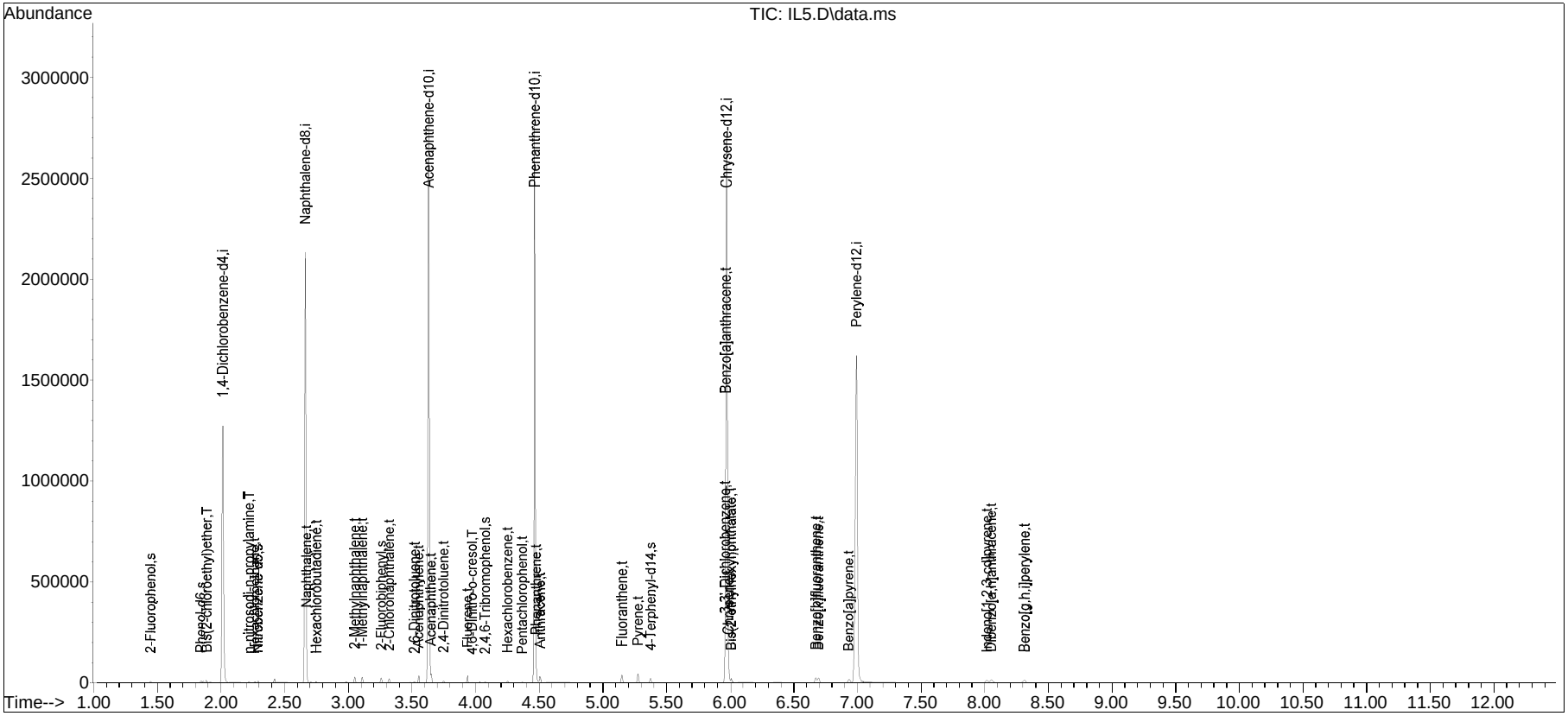
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL5.D
Acq On : 23 Feb 2024 03:51 pm
Operator : SV125:dv
Sample : IL5,32,,40.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 20 14:04:07 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:24 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

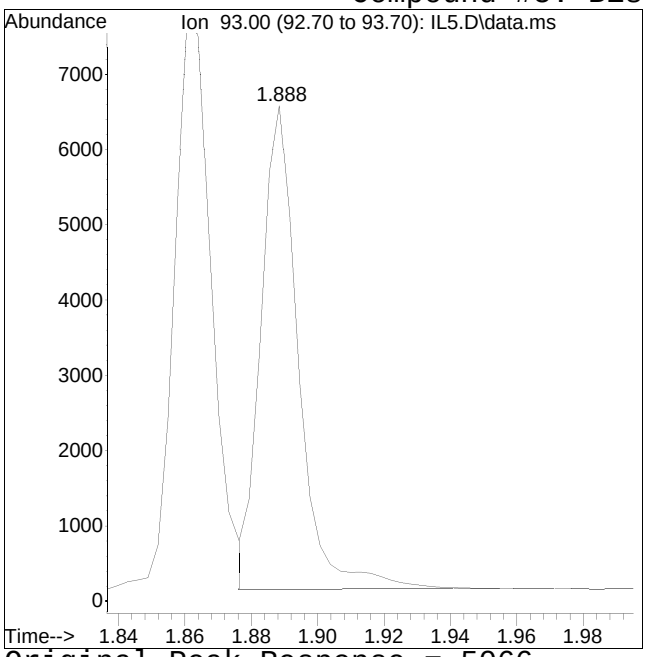


Manual Integration Report

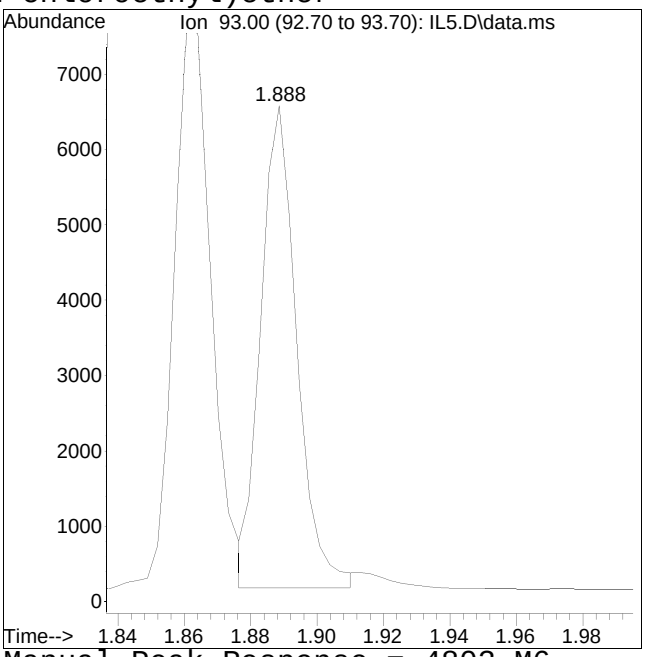
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL5.D
Date Inj'd : 2/23/2024 3:51 pm
Sample : IL5,32,,40.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 5066



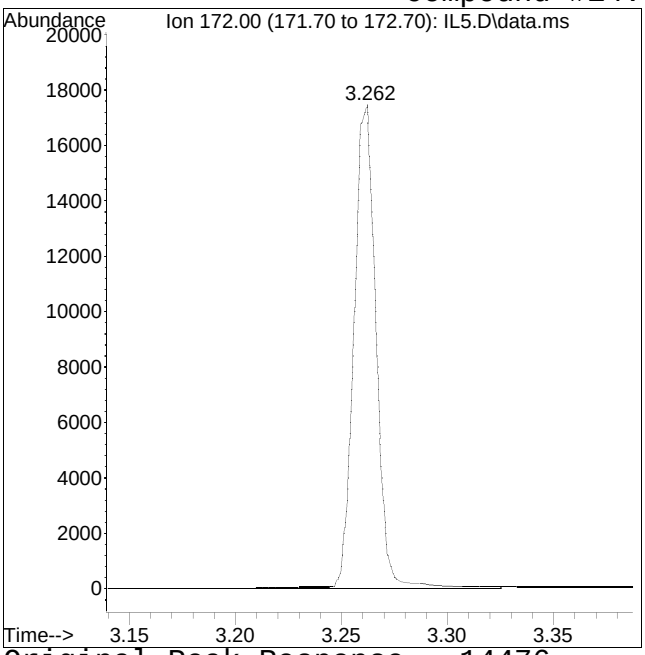
Manual Peak Response = 4803 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

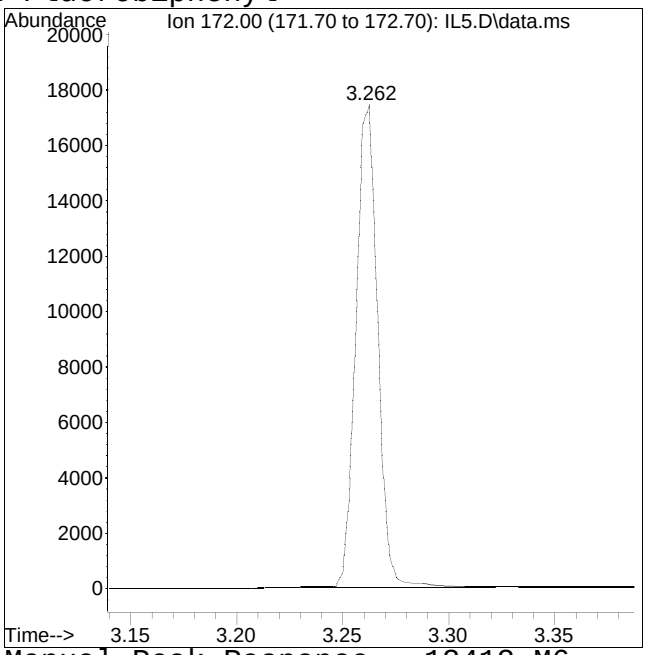
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL5.D Operator : SV125:dv
Date Inj'd : 2/23/2024 3:51 pm Instrument : SV125
Sample : IL5,32,,40.0 ng/ml Quant Date : 5/20/2024 2:04 pm

Compound #14: 2-Fluorobiphenyl



Original Peak Response = 14476



Manual Peak Response = 12412 M6

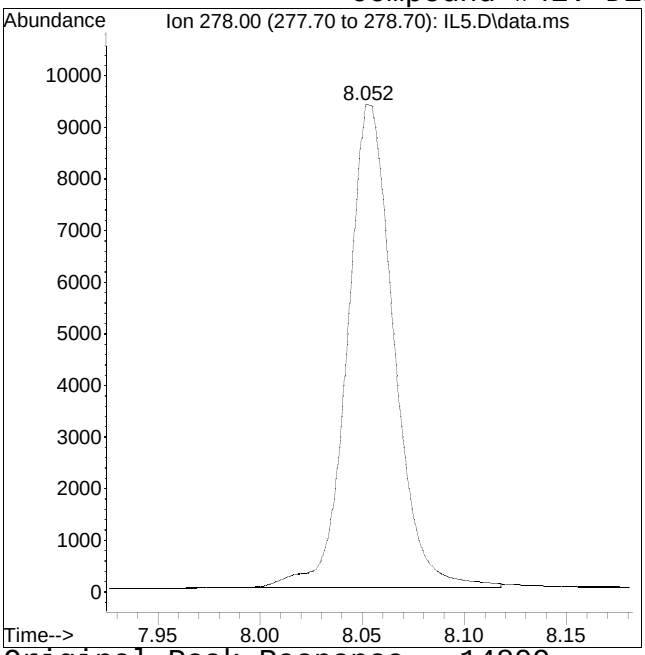
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

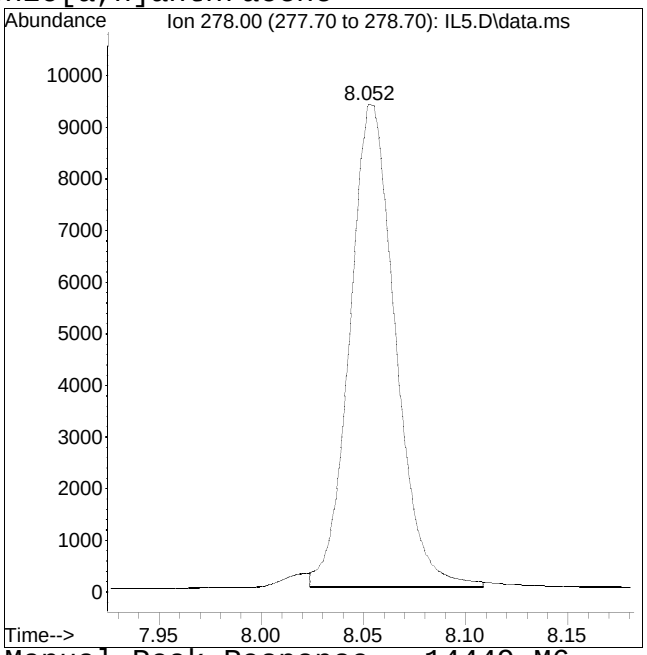
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL5.D
Date Inj'd : 2/23/2024 3:51 pm
Sample : IL5,32,,40.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 14809



Manual Peak Response = 14449 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL4.D
Acq On : 23 Feb 2024 04:07 pm
Operator : SV125:dv
Sample : IL4,32,,10.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 20 14:06:21 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.011	152	382865	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 103.40%			
9) Naphthalene-d8	2.663	136	1316801	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 98.30%			
18) Acenaphthene-d10	3.631	164	754672	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 94.17%			
23) Phenanthrene-d10	4.463	188	1641562	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 93.98%			
32) Chrysene-d12	5.973	240	1454154	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 98.30%			
37) Perylene-d12	6.990	264	1427140	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 90.82%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.443	112	1084	9.573	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.19%#			
4) Phenol-d6	1.840	99	1266	9.657	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.19%#			
8) Nitrobenzene-d5	2.291	82	933	8.786	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.35%#			
14) 2-Fluorobiphenyl	3.261	172	3055M6	10.104	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.40%#			
22) 2,4,6-Tribromophenol	4.074	330	365	8.670	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.17%#			
31) 4-Terphenyl-d14	5.375	244	3235	9.644	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.39%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.889	93	1192M6	10.203	ng/ml	
6) n-nitrosodi-n-propylamine	2.217	70	670	8.885	ng/ml	97
7) Hexachloroethane	2.263	117	499	9.610	ng/ml	96
10) Naphthalene	2.673	128	3629	9.871	ng/ml#	93
11) Hexachlorobutadiene	2.749	225	680	9.707	ng/ml	98
12) 2-Methylnaphthalene	3.052	142	2343	9.949	ng/ml	100
13) 1-Methylnaphthalene	3.105	142	2222	9.967	ng/ml	99
15) 2-Chloronaphthalene	3.321	162	2541	9.701	ng/ml	99
16) 2,6-Dinitrotoluene	3.520	165	434	24.980	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL4.D
Acq On : 23 Feb 2024 04:07 pm
Operator : SV125:dv
Sample : IL4,32,,10.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 20 14:06:21 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthylene	3.549	152	3626	9.305	ng/ml	99
19) Acenaphthene	3.649	153	2578M6	9.992	ng/ml	
20) 2,4-Dinitrotoluene	3.747	165	425M4	26.572	ng/ml	
21) Fluorene	3.937	166	2819	9.547	ng/ml	97
24) 4,6-Dinitro-o-cresol	3.977	198	160M6	28.313	ng/ml	
25) Hexachlorobenzene	4.250	284	1132M6	9.966	ng/ml	
26) Pentachlorophenol	4.365	266	360M6	10.645	ng/ml	
27) Phenanthrene	4.475	178	4603M1	9.697	ng/ml	
28) Anthracene	4.504	178	4310	9.399	ng/ml	99
29) Fluoranthene	5.148	202	5250	9.538	ng/ml	100
30) Pyrene	5.273	202	5423	9.422	ng/ml	99
33) Benzo[a]anthracene	5.970	228	9918M7	8.698	ng/ml	
34) 3,3'-Dichlorobenzene	5.959	252	1594	24.310	ng/ml#	2
35) Chrysene	5.986	228	5351	10.304	ng/ml	98
36) Bis(2-ethylhexyl)phtha...	6.008	149	2610	31.391	ng/ml	100
38) Benzo[b]fluoranthene	6.673	252	4572	9.203	ng/ml	100
39) Benzo[k]fluoranthene	6.692	252	4271	9.218	ng/ml	100
40) Benzo[a]pyrene	6.931	252	3601	8.741	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.013	276	3630	8.846	ng/ml	99
42) Dibenzo[a,h]anthracene	8.047	278	3334M6	8.764	ng/ml	
43) Benzo[g,h,i]perylene	8.305	276	3756	9.095	ng/ml	98

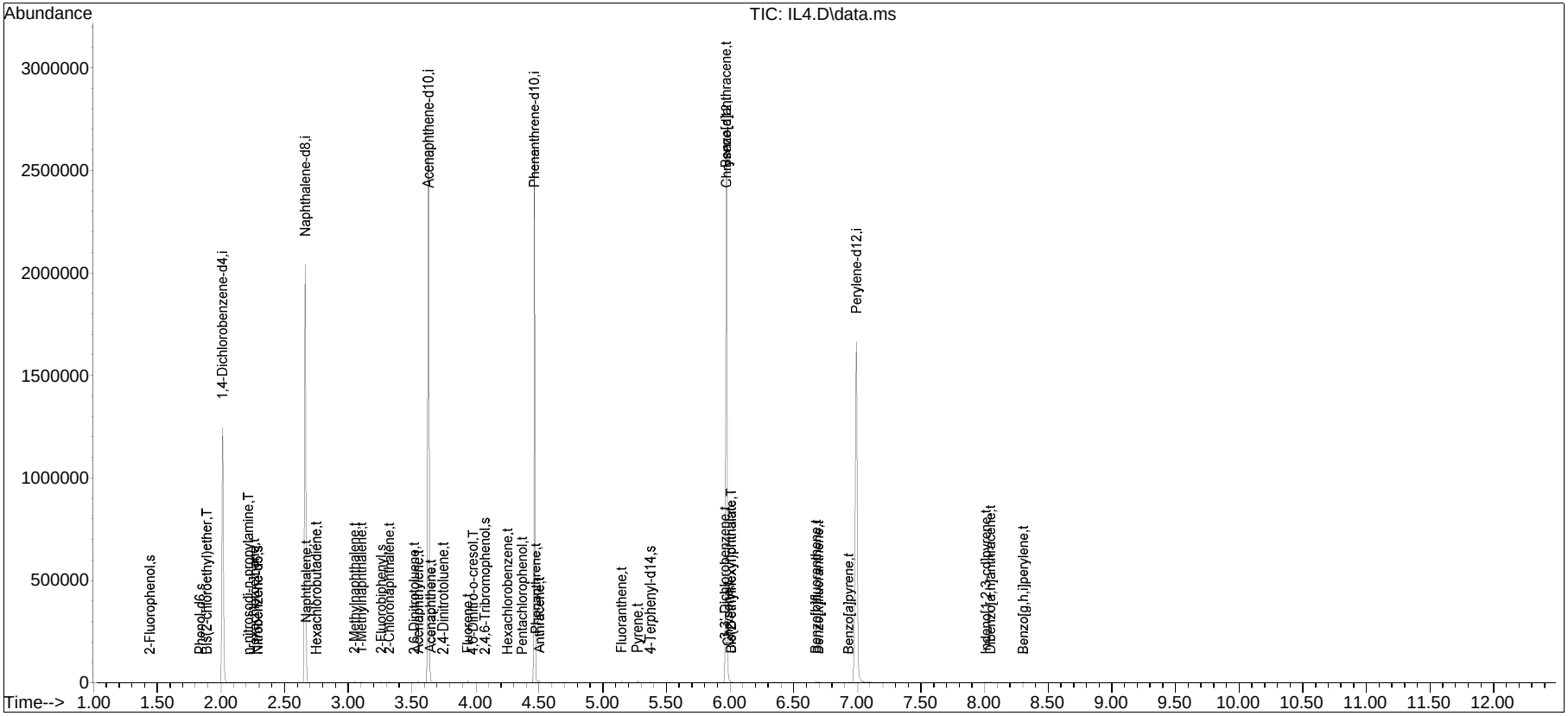
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL4.D
Acq On : 23 Feb 2024 04:07 pm
Operator : SV125:dv
Sample : IL4,32,,10.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 20 14:06:21 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

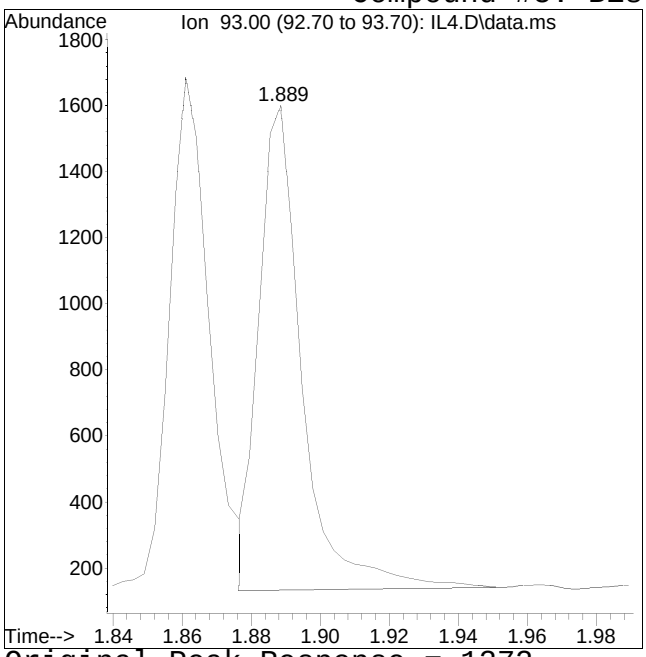


Manual Integration Report

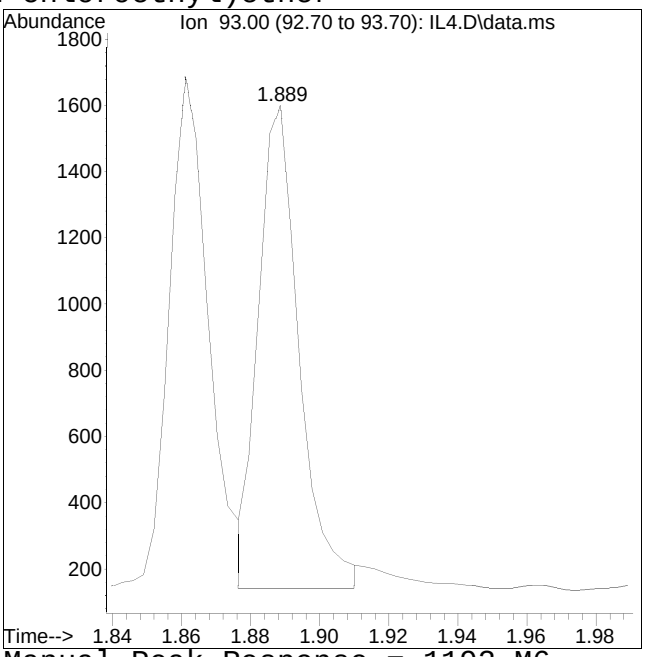
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL4.D
Date Inj'd : 2/23/2024 4:07 pm
Sample : IL4,32,,10.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 1272



Manual Peak Response = 1192 M6

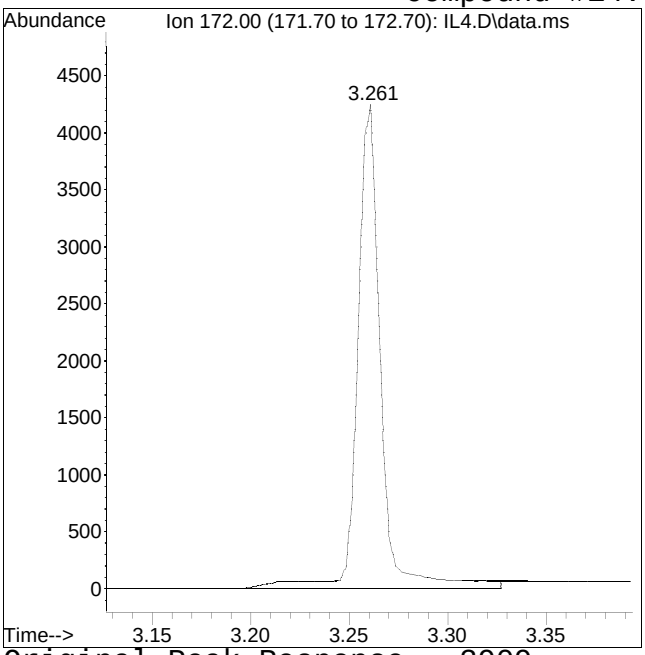
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

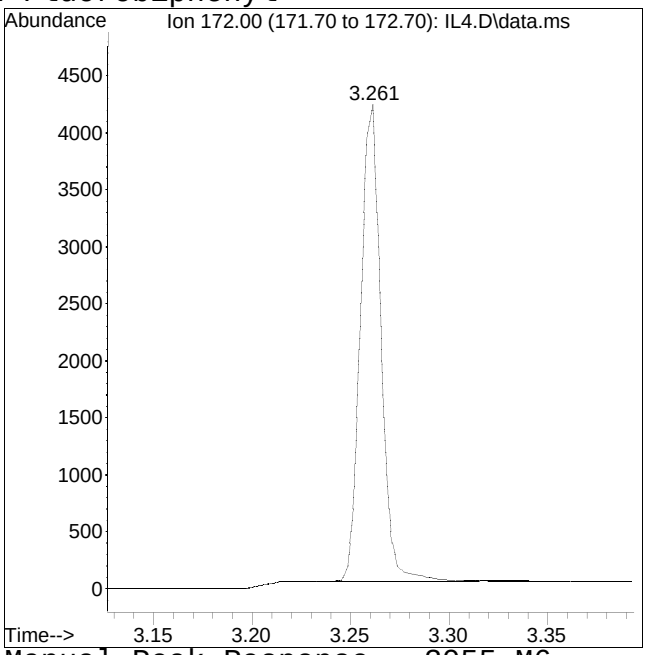
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL4.D
Date Inj'd : 2/23/2024 4:07 pm
Sample : IL4,32,,10.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #14: 2-Fluorobiphenyl



Original Peak Response = 3909



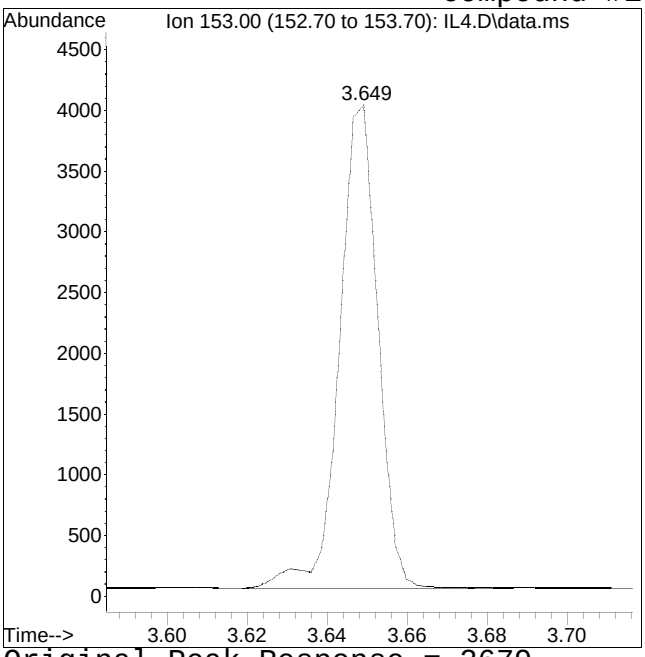
Manual Peak Response = 3055 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

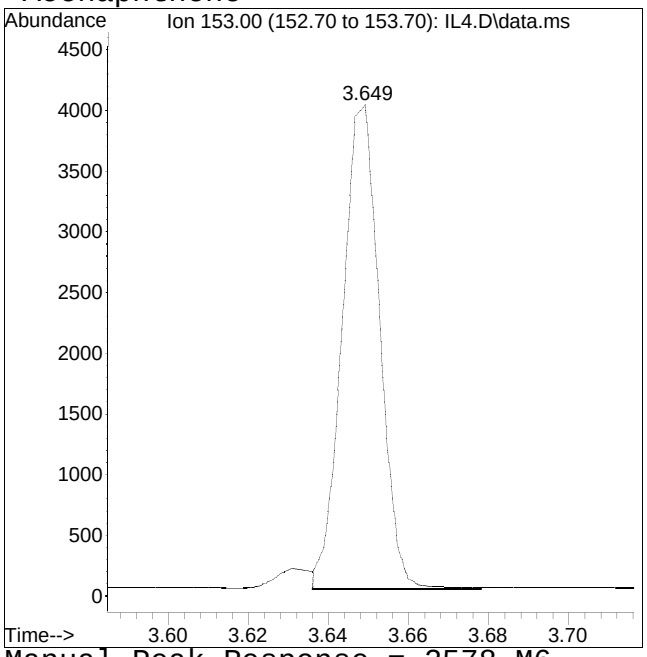
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:07 pm Instrument : SV125
Sample : IL4,32,,10.0 ng/ml Quant Date : 5/20/2024 2:04 pm

Compound #19: Acenaphthene



Original Peak Response = 2679



Manual Peak Response = 2578 M6

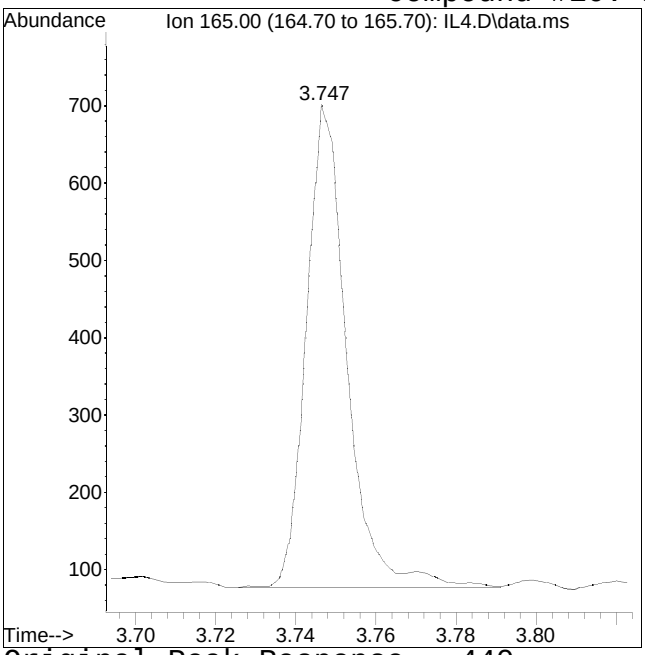
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

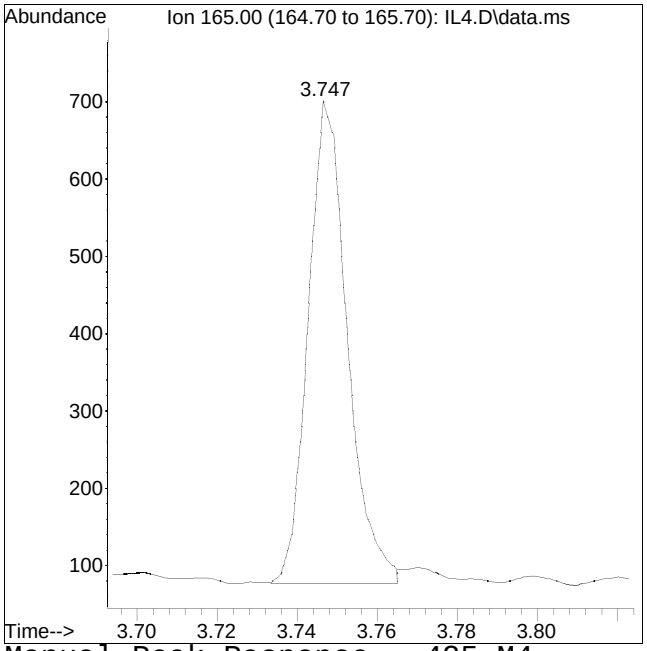
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL4.D
Date Inj'd : 2/23/2024 4:07 pm
Sample : IL4,32,,10.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #20: 2,4-Dinitrotoluene



Original Peak Response = 440



Manual Peak Response = 425 M4

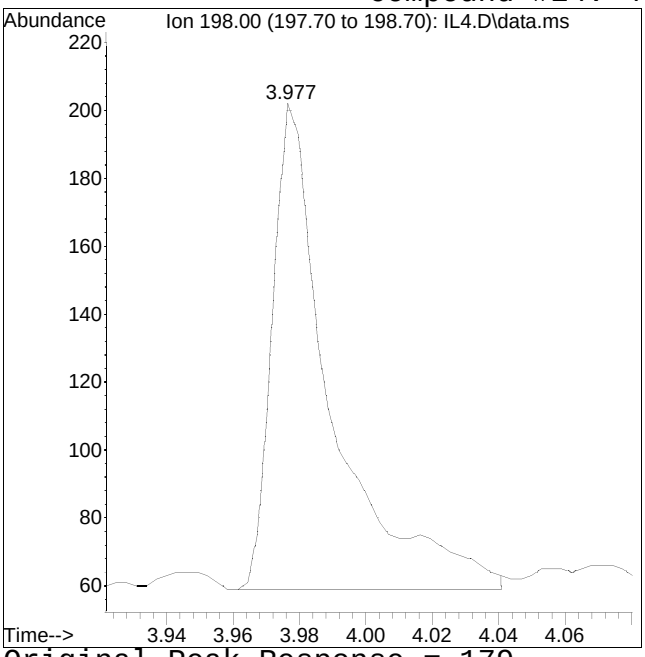
M4 = Poor automated baseline construction.

Manual Integration Report

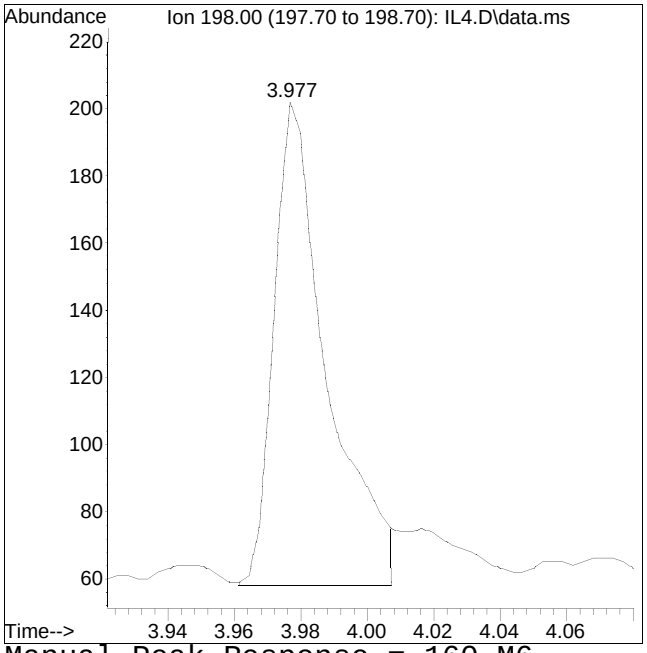
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL4.D
Date Inj'd : 2/23/2024 4:07 pm
Sample : IL4,32,,10.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #24: 4,6-Dinitro-o-cresol



Original Peak Response = 179



Manual Peak Response = 160 M6

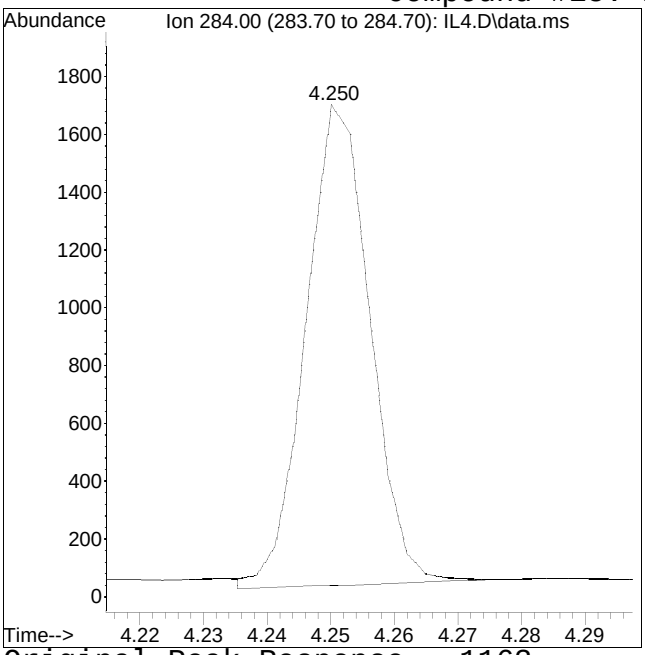
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

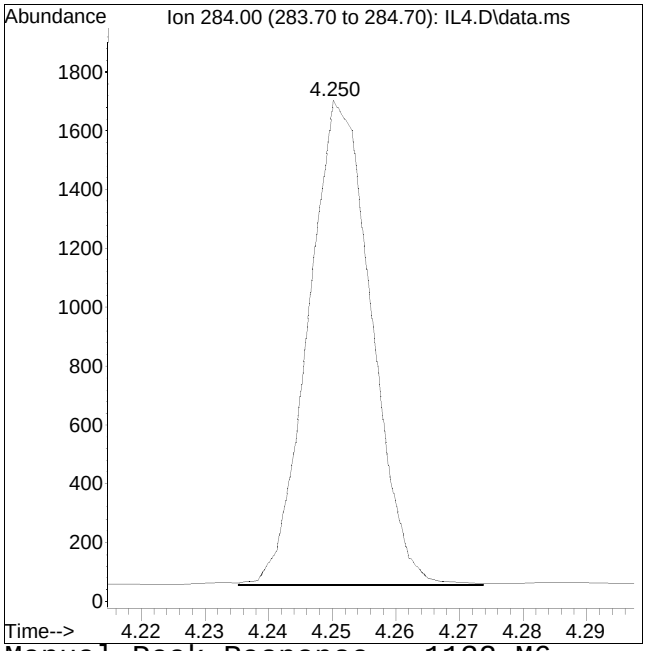
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL4.D
Date Inj'd : 2/23/2024 4:07 pm
Sample : IL4,32,,10.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #25: Hexachlorobenzene



Original Peak Response = 1163



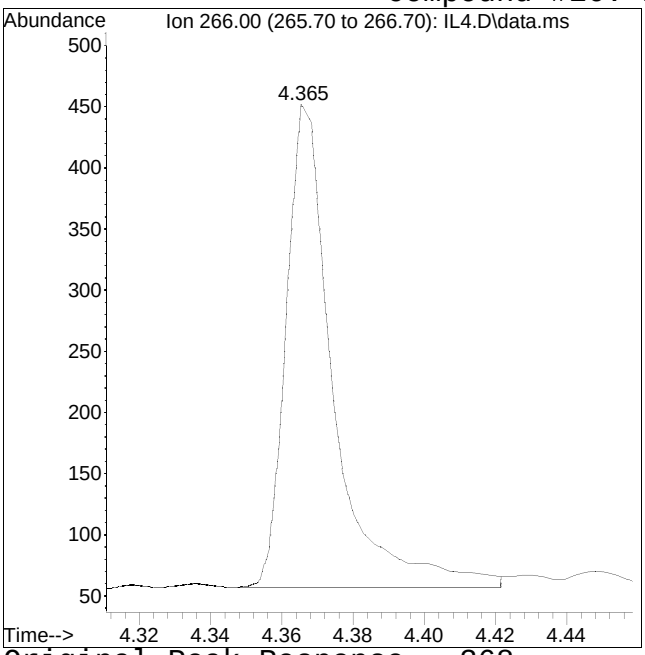
Manual Peak Response = 1132 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

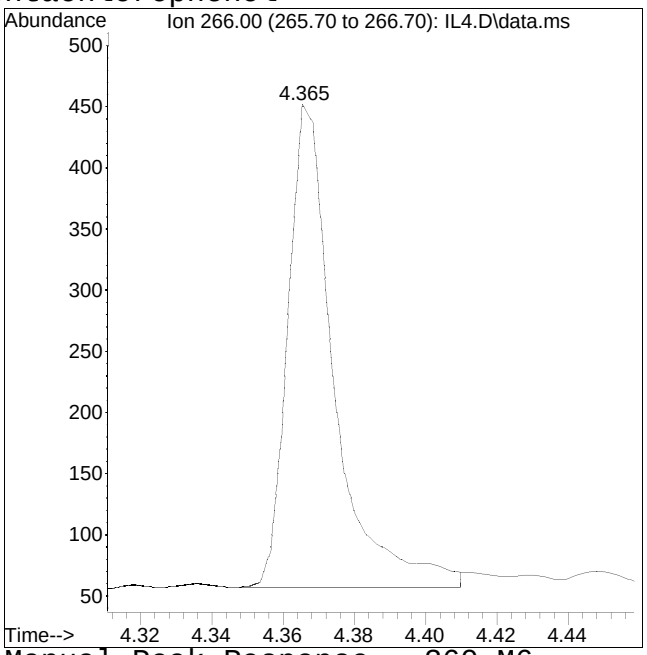
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:07 pm Instrument : SV125
Sample : IL4,32,,10.0 ng/ml Quant Date : 5/20/2024 2:04 pm

Compound #26: Pentachlorophenol



Original Peak Response = 368



Manual Peak Response = 360 M6

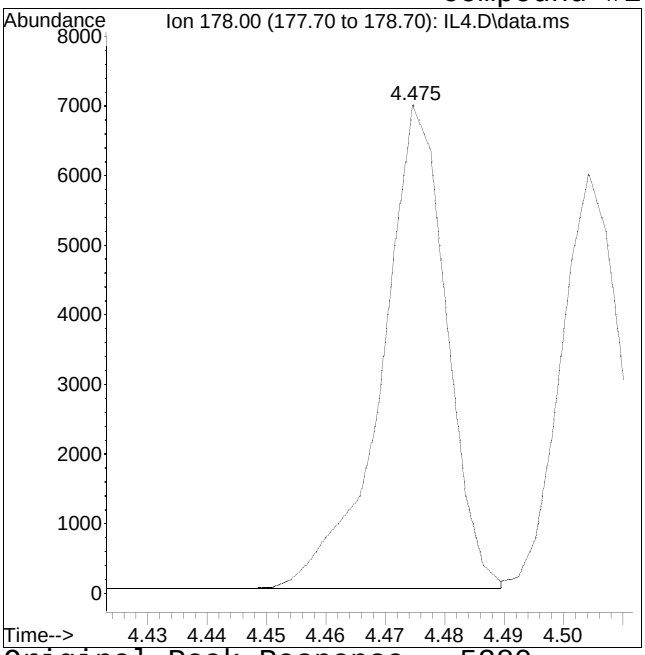
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

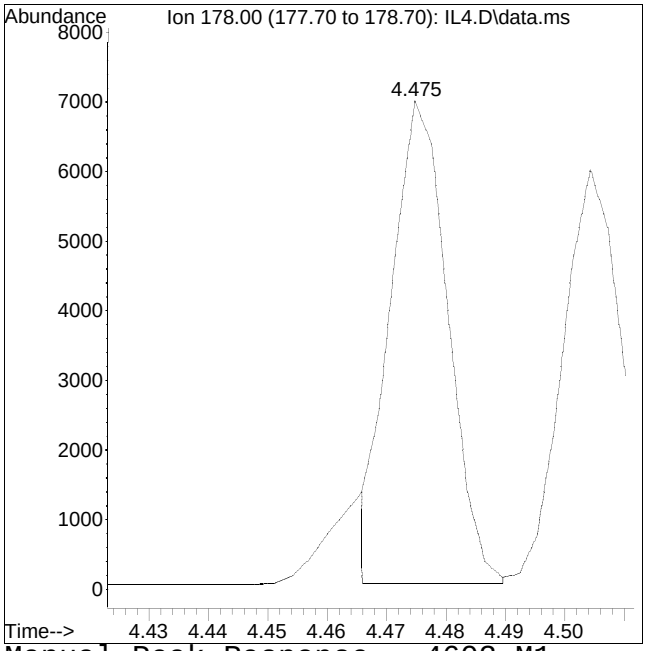
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL4.D
Date Inj'd : 2/23/2024 4:07 pm
Sample : IL4,32,,10.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #27: Phenanthrene



Original Peak Response = 5280



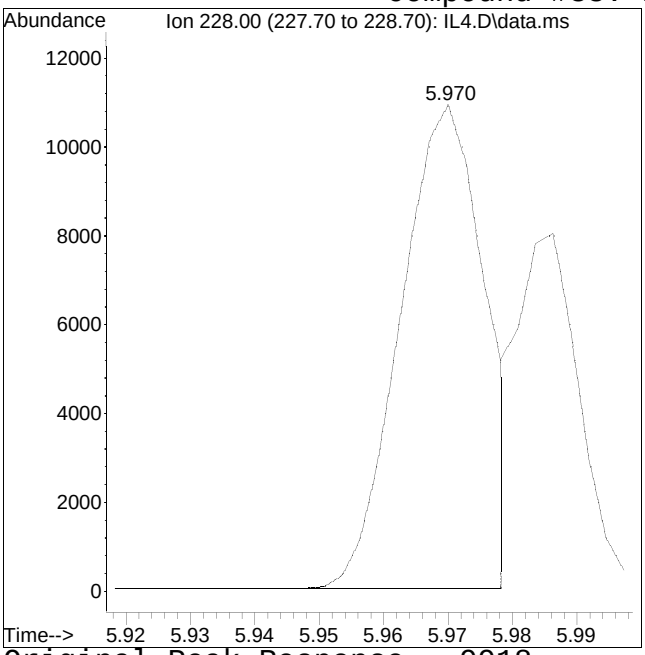
Manual Peak Response = 4603 M1

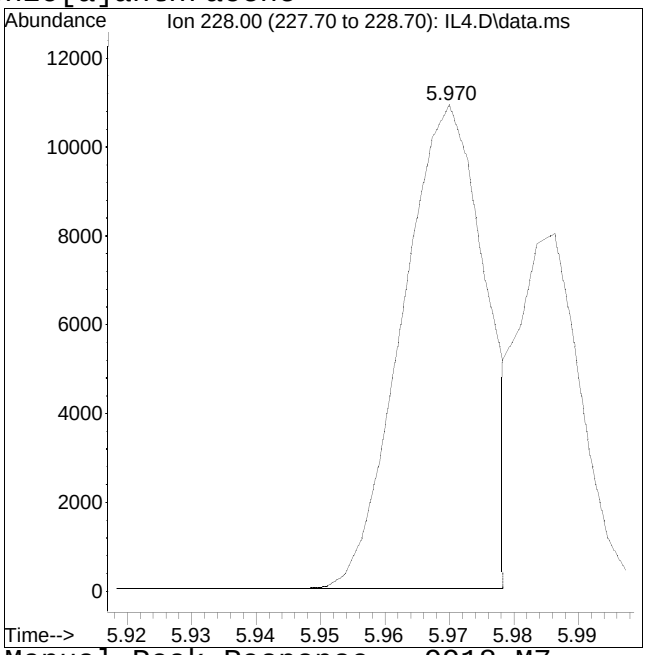
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:07 pm Instrument : SV125
Sample : IL4,32,,10.0 ng/ml Quant Date : 5/20/2024 2:04 pm

Compound #33: Benzo[a]anthracene





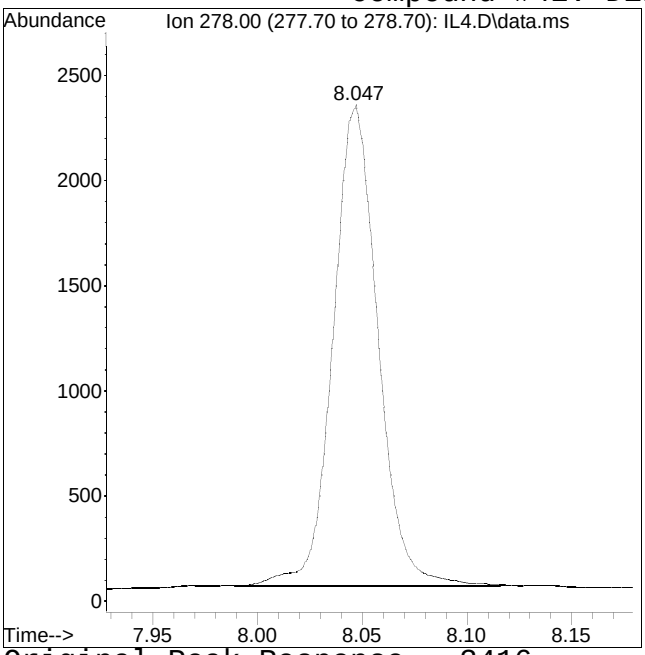
Original Peak Response = 9918 Manual Peak Response = 9918 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

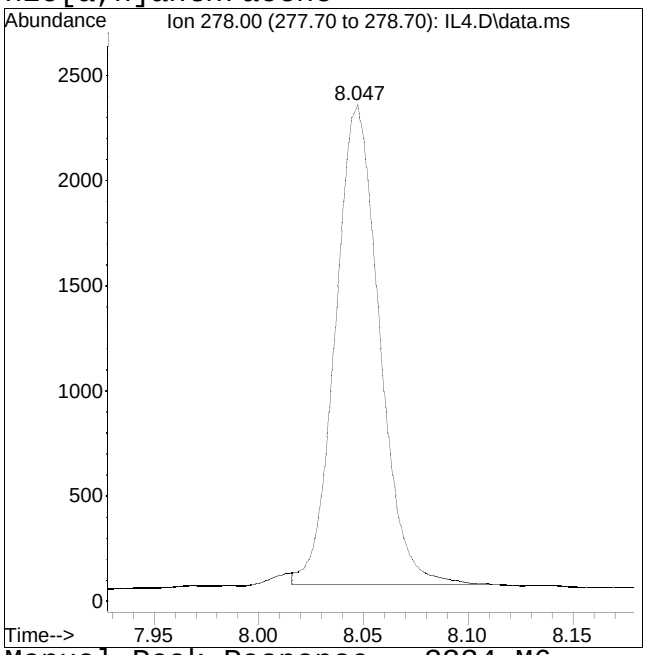
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL4.D
Date Inj'd : 2/23/2024 4:07 pm
Sample : IL4,32,,10.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 3416



Manual Peak Response = 3334 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL3.D
Acq On : 23 Feb 2024 04:23 pm
Operator : SV125:dv
Sample : IL3,32,,5.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 20 14:05:38 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	383344	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 103.53%			
9) Naphthalene-d8	2.664	136	1319658	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 98.52%			
18) Acenaphthene-d10	3.632	164	755614	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 94.29%			
23) Phenanthrene-d10	4.464	188	1634142	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 93.55%			
32) Chrysene-d12	5.971	240	1467033	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 99.18%			
37) Perylene-d12	6.992	264	1451720	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 92.38%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.448	112	544	4.798	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.10%#			
4) Phenol-d6	1.843	99	615	4.685	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.09%#			
8) Nitrobenzene-d5	2.294	82	465	4.373	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.17%#			
14) 2-Fluorobiphenyl	3.263	172	1561M6	5.151	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.21%#			
22) 2,4,6-Tribromophenol	4.075	330	177	4.199	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.08%#			
31) 4-Terphenyl-d14	5.376	244	1691	5.064	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.20%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.889	93	600M6	5.129	ng/ml	
6) n-nitrosodi-n-propylamine	2.220	70	345	4.569	ng/ml	95
7) Hexachloroethane	2.265	117	253	4.866	ng/ml	100
10) Naphthalene	2.676	128	1866	5.065	ng/ml#	83
11) Hexachlorobutadiene	2.749	225	362	5.156	ng/ml	96
12) 2-Methylnaphthalene	3.054	142	1174	4.974	ng/ml	100
13) 1-Methylnaphthalene	3.108	142	1105	4.946	ng/ml	100
15) 2-Chloronaphthalene	3.322	162	1305	4.971	ng/ml	99
16) 2,6-Dinitrotoluene	3.521	165	223	21.561	ng/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL3.D
Acq On : 23 Feb 2024 04:23 pm
Operator : SV125:dv
Sample : IL3,32,,5.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 20 14:05:38 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthylene	3.550	152	1785	4.571	ng/ml	99
19) Acenaphthene	3.650	153	1253	4.850	ng/ml	93
20) 2,4-Dinitrotoluene	3.748	165	239	24.318	ng/ml#	78
21) Fluorene	3.938	166	1424	4.817	ng/ml	100
24) 4,6-Dinitro-o-cresol	3.981	198	74M6	26.174	ng/ml	
25) Hexachlorobenzene	4.251	284	582	5.147	ng/ml	91
26) Pentachlorophenol	4.369	266	173M6	7.415	ng/ml	
27) Phenanthrene	4.476	178	2357M6	4.988	ng/ml	
28) Anthracene	4.505	178	2172	4.758	ng/ml	99
29) Fluoranthene	5.149	202	2615	4.772	ng/ml	99
30) Pyrene	5.274	202	2726	4.758	ng/ml	99
33) Benzo[a]anthracene	5.971	228	7656M7	4.668	ng/ml	
34) 3,3'-Dichlorobenzene	5.960	252	830	21.165	ng/ml#	1
35) Chrysene	5.985	228	2409M3	4.598	ng/ml	
36) Bis(2-ethylhexyl)phtha...	6.006	149	2012	29.821	ng/ml	97
38) Benzo[b]fluoranthene	6.672	252	2201	4.355	ng/ml	99
39) Benzo[k]fluoranthene	6.694	252	2255	4.784	ng/ml	94
40) Benzo[a]pyrene	6.933	252	1807	4.312	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.021	276	1812	4.341	ng/ml	98
42) Dibenzo[a,h]anthracene	8.055	278	1654M6	4.274	ng/ml	
43) Benzo[g,h,i]perylene	8.310	276	1864	4.437	ng/ml	97

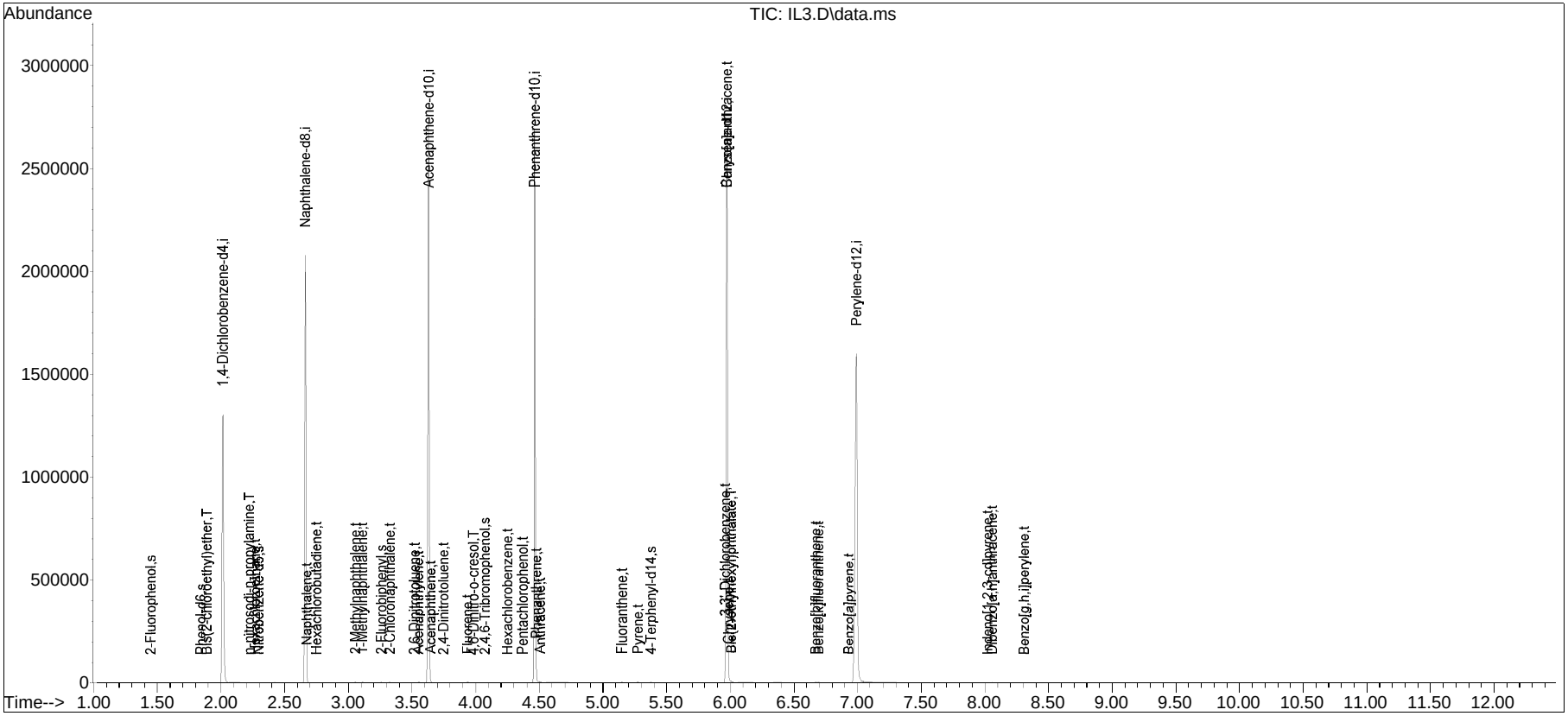
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL3.D
Acq On : 23 Feb 2024 04:23 pm
Operator : SV125:dv
Sample : IL3,32,,5.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 20 14:05:38 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:08 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

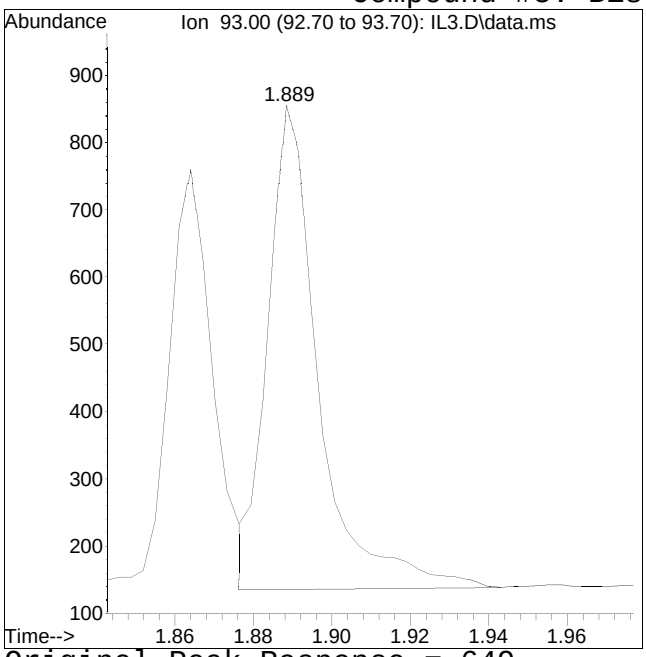


Manual Integration Report

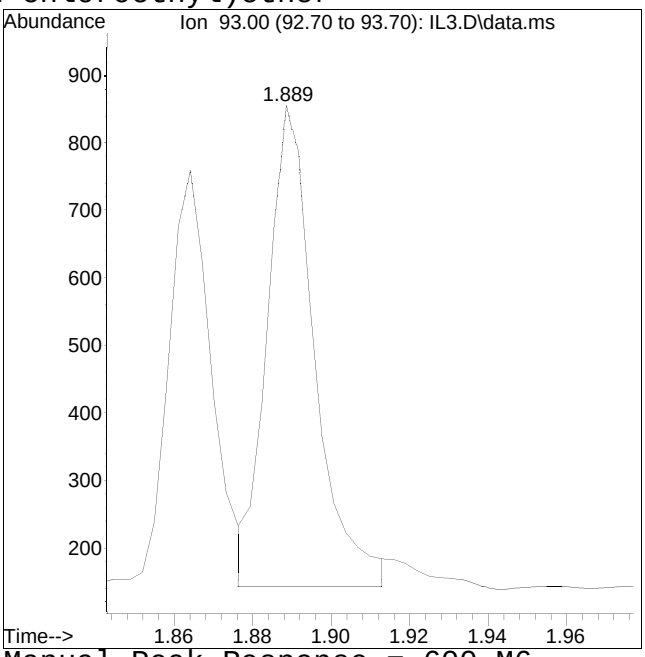
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL3.D
Date Inj'd : 2/23/2024 4:23 pm
Sample : IL3,32,,5.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 649



Manual Peak Response = 600 M6

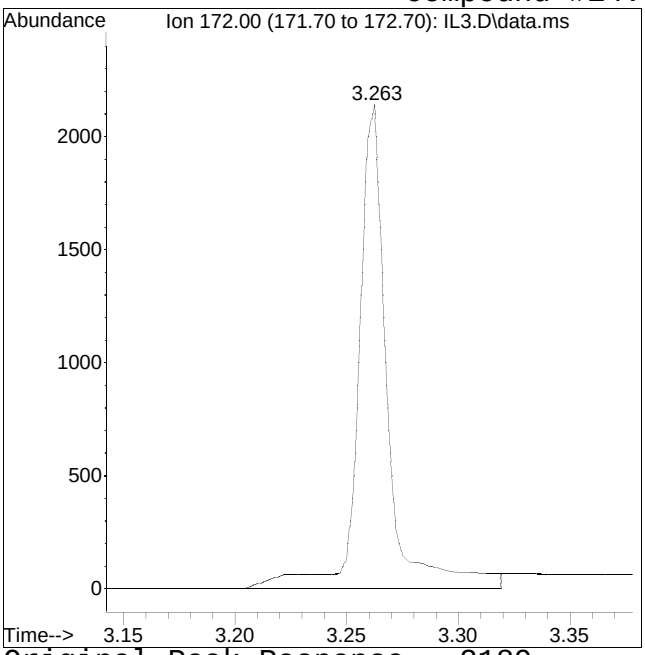
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

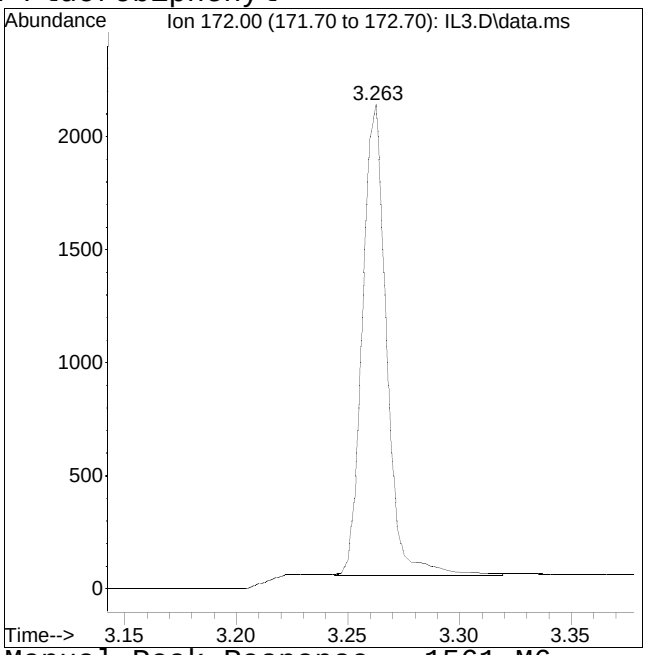
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL3.D
Date Inj'd : 2/23/2024 4:23 pm
Sample : IL3,32,,5.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #14: 2-Fluorobiphenyl



Original Peak Response = 2189



Manual Peak Response = 1561 M6

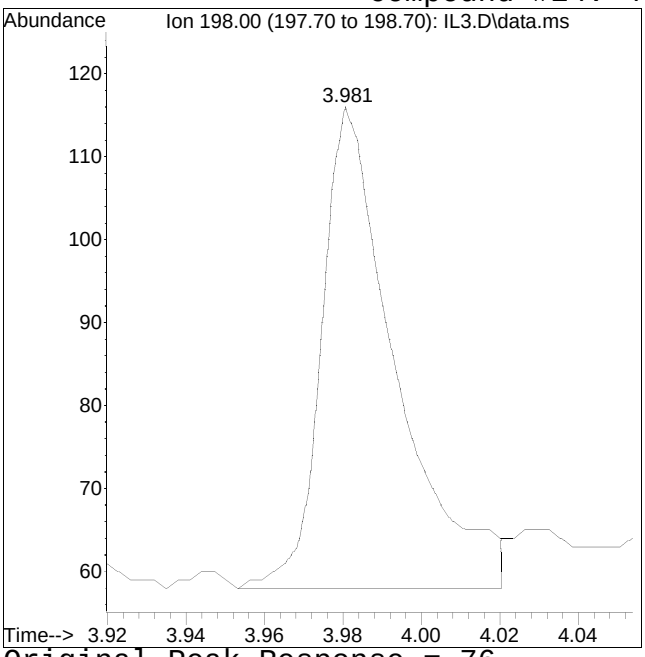
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

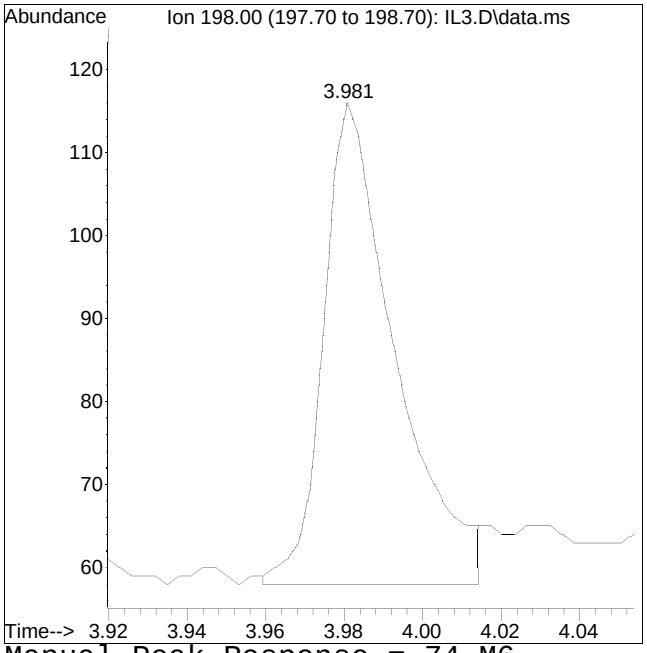
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL3.D
Date Inj'd : 2/23/2024 4:23 pm
Sample : IL3,32,,5.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #24: 4,6-Dinitro-o-cresol



Original Peak Response = 76



Manual Peak Response = 74 M6

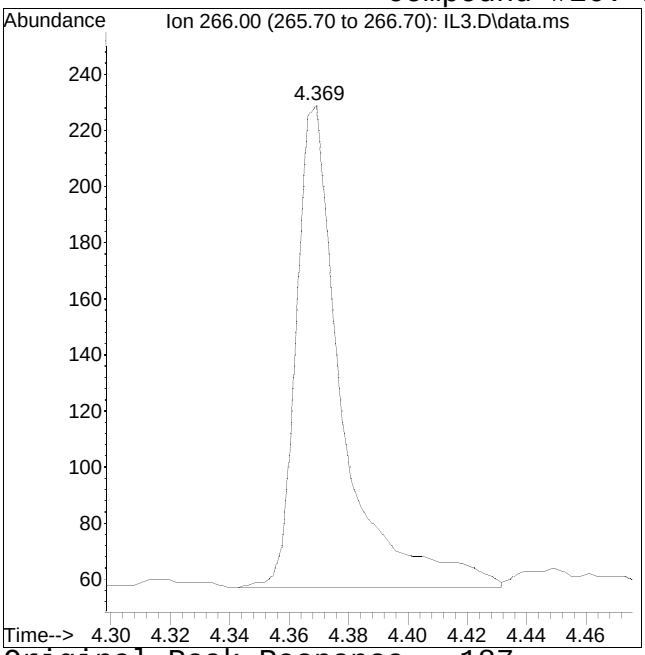
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

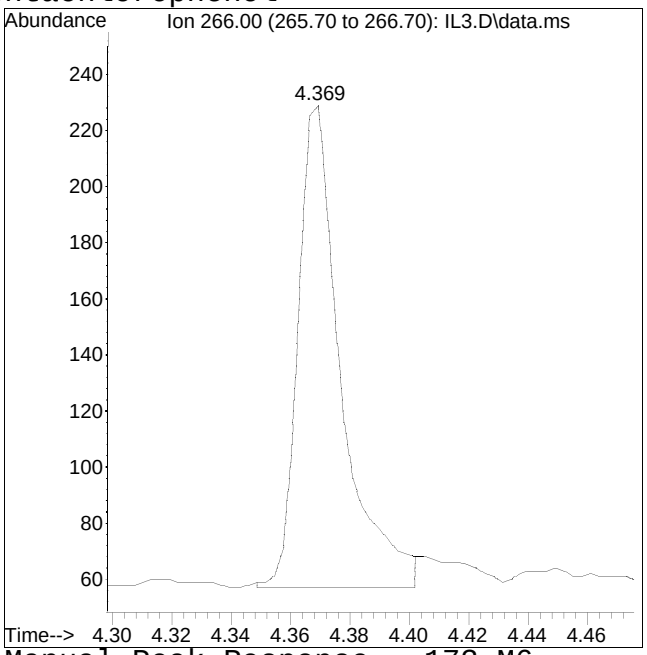
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL3.D
Date Inj'd : 2/23/2024 4:23 pm
Sample : IL3,32,,5.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #26: Pentachlorophenol



Original Peak Response = 187



Manual Peak Response = 173 M6

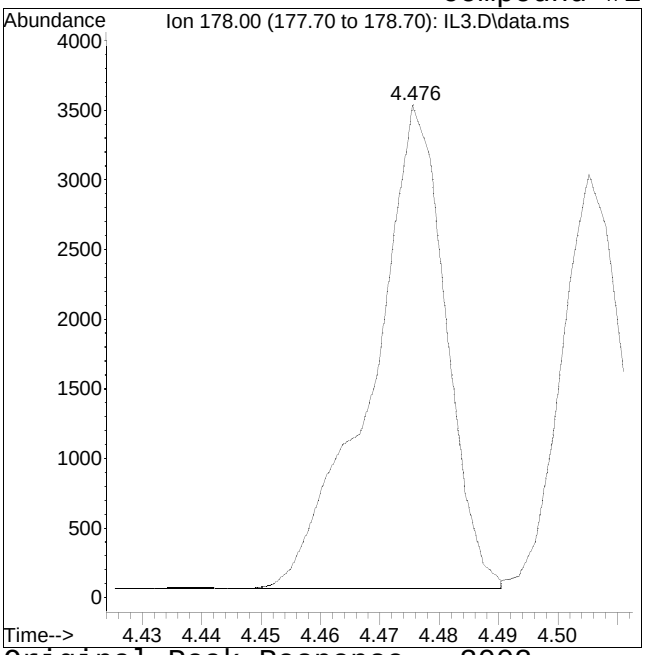
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

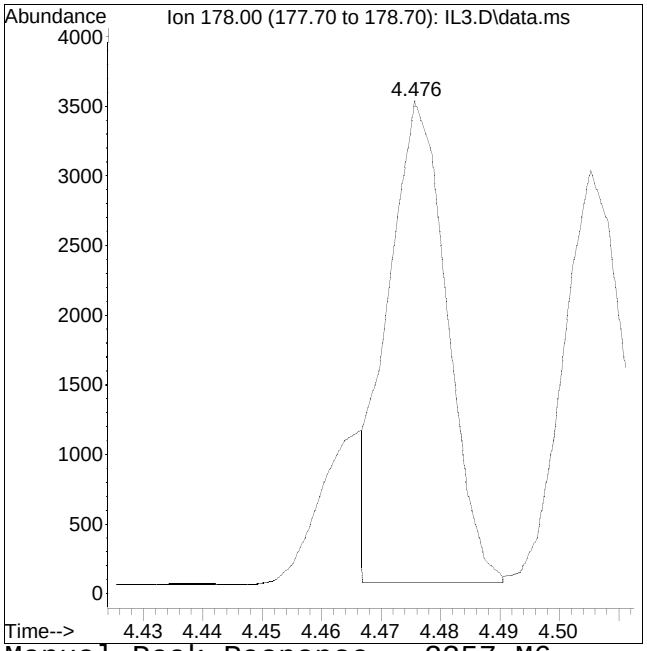
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL3.D
Date Inj'd : 2/23/2024 4:23 pm
Sample : IL3,32,,5.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #27: Phenanthrene



Original Peak Response = 3002



Manual Peak Response = 2357 M6

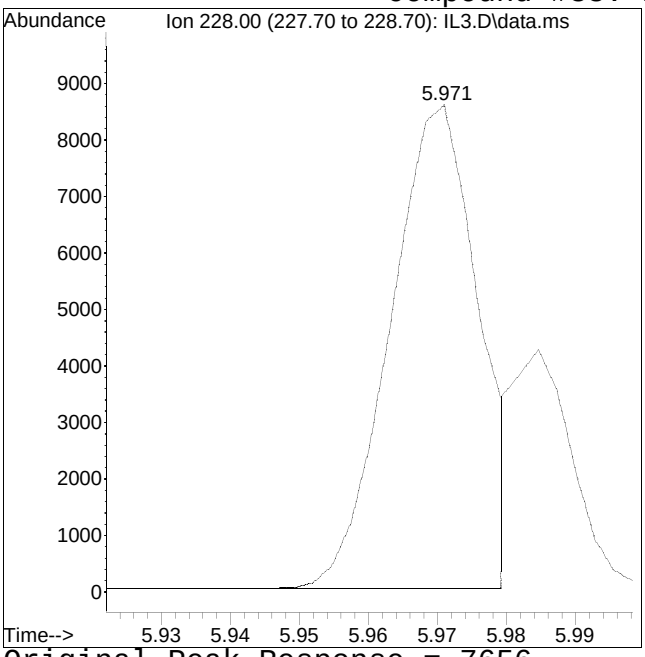
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

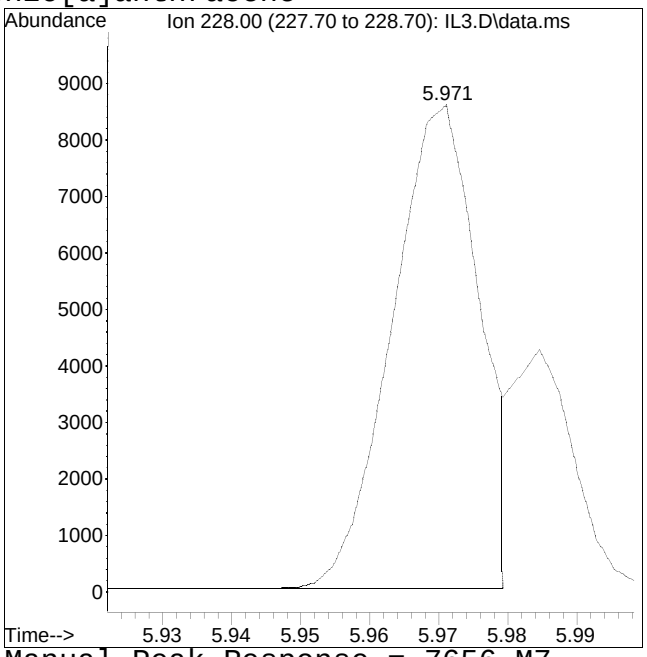
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL3.D
Date Inj'd : 2/23/2024 4:23 pm
Sample : IL3,32,,5.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #33: Benzo[a]anthracene





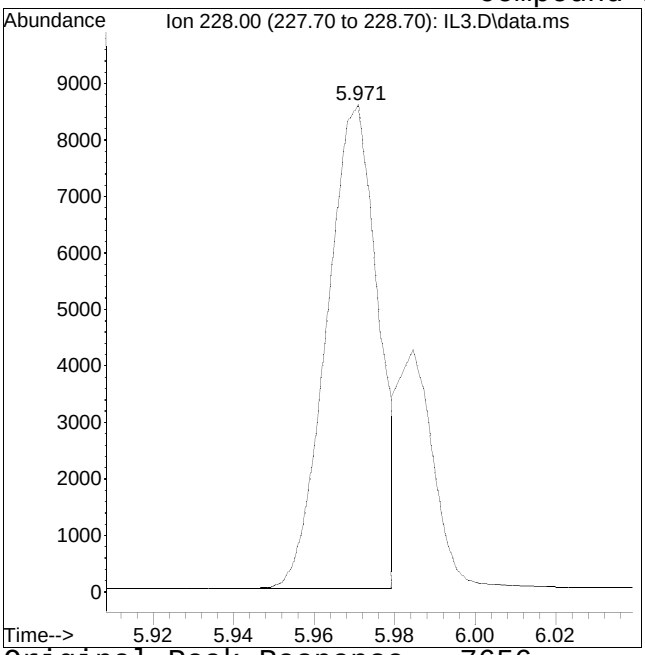
Original Peak Response = 7656 Manual Peak Response = 7656 M7

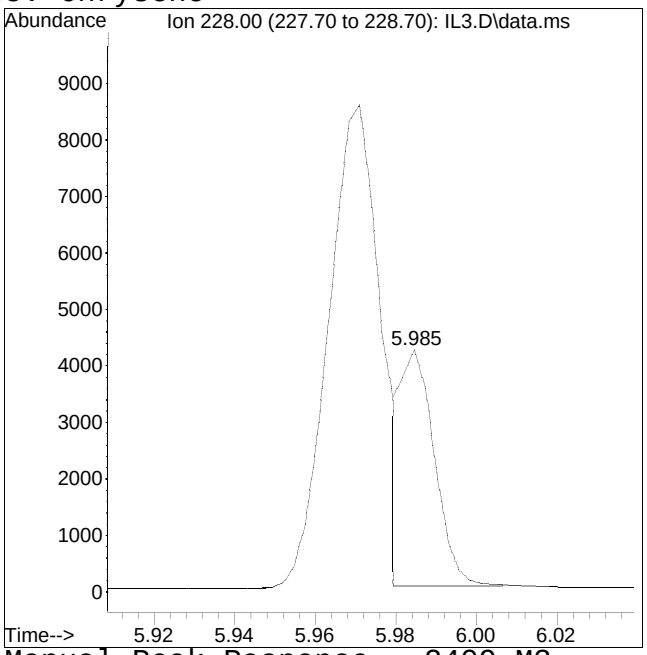
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:23 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml Quant Date : 5/20/2024 2:04 pm

Compound #35: Chrysene



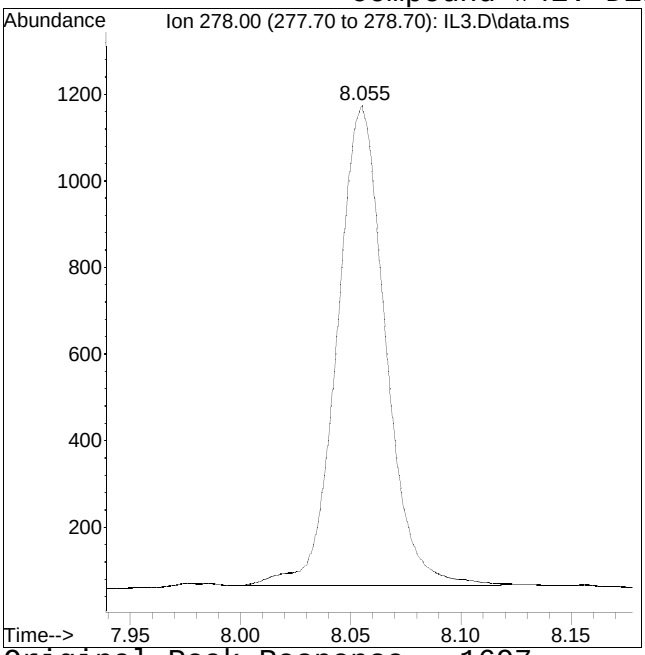


Original Peak Response = 7656 Manual Peak Response = 2409 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

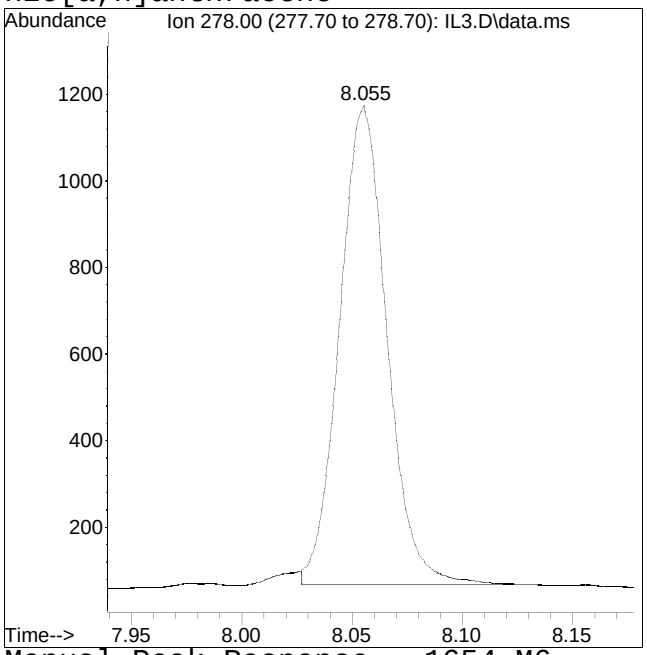
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:23 pm Instrument : SV125
Sample : IL3,32,,5.0 ng/ml Quant Date : 5/20/2024 2:04 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 1697



Manual Peak Response = 1654 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL2.D
Acq On : 23 Feb 2024 04:40 pm
Operator : SV125:dv
Sample : IL2,32,,2.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 20 13:25:58 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.010	152	380141	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 102.67%			
9) Naphthalene-d8	2.663	136	1309131	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 97.73%			
18) Acenaphthene-d10	3.632	164	752448	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 93.90%			
23) Phenanthrene-d10	4.464	188	1606855	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 91.99%			
32) Chrysene-d12	5.971	240	1459703	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 98.68%			
37) Perylene-d12	6.989	264	1470622	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 93.58%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.445	112	217	1.930	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.04%#			
4) Phenol-d6	1.839	99	249	1.913	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.04%#			
8) Nitrobenzene-d5	2.291	82	190M6	1.802	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.07%#			
14) 2-Fluorobiphenyl	3.259	172	602M6	1.844	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.07%#			
22) 2,4,6-Tribromophenol	4.075	330	68	1.620	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.03%#			
31) 4-Terphenyl-d14	5.376	244	669	2.038	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.08%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.885	93	230M6	1.978	ng/ml	
6) n-nitrosodi-n-propylamine	2.217	70	118M7	1.576	ng/ml	
7) Hexachloroethane	2.262	117	114	2.211	ng/ml	84
10) Naphthalene	2.672	128	796	2.178	ng/ml#	62
11) Hexachlorobutadiene	2.749	225	151	2.168	ng/ml	91
12) 2-Methylnaphthalene	3.054	142	472	2.016	ng/ml	97
13) 1-Methylnaphthalene	3.107	142	446	2.012	ng/ml	100
15) 2-Chloronaphthalene	3.319	162	524	2.012	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL2.D
Acq On : 23 Feb 2024 04:40 pm
Operator : SV125:dv
Sample : IL2,32,,2.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 20 13:25:58 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
17) Acenaphthylene	3.550	152	701	1.809	ng/ml	99
19) Acenaphthene	3.647	153	513	1.994	ng/ml	87
20) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
21) Fluorene	3.938	166	580	1.970	ng/ml	98
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
25) Hexachlorobenzene	4.251	284	212	1.878	ng/ml#	79
26) Pentachlorophenol	4.366	266	135	6.793	ng/ml	91
27) Phenanthrene	4.475	178	949M6	2.044	ng/ml	
28) Anthracene	4.505	178	860	1.916	ng/ml	98
29) Fluoranthene	5.149	202	1056	1.960	ng/ml	96
30) Pyrene	5.274	202	1085	1.926	ng/ml	99
33) Benzo[a]anthracene	5.971	228	6197M6	2.219	ng/ml	
34) 3,3'-Dichlorobenzene	5.960	252	386	19.378	ng/ml#	1
35) Chrysene	5.982	228	808M3	1.550	ng/ml	
36) Bis(2-ethylhexyl)phtha...	6.006	149	1919	29.610	ng/ml	99
38) Benzo[b]fluoranthene	6.672	252	930	1.817	ng/ml	100
39) Benzo[k]fluoranthene	6.690	252	899	1.885	ng/ml	97
40) Benzo[a]pyrene	6.932	252	742	1.748	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.014	276	751	1.776	ng/ml	99
42) Dibenzo[a,h]anthracene	8.049	278	691M6	1.763	ng/ml	
43) Benzo[g,h,i]perylene	8.307	276	758	1.782	ng/ml	96

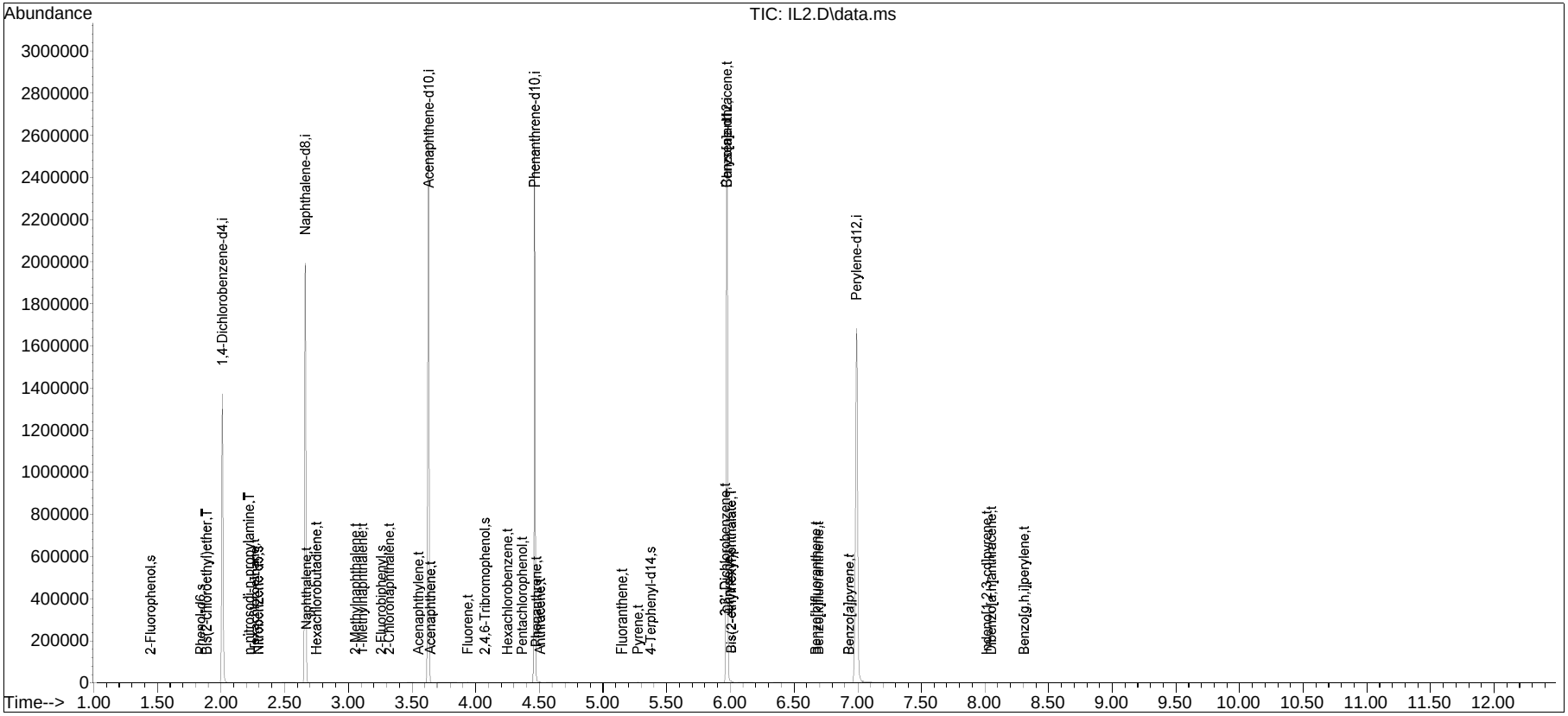
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL2.D
Acq On : 23 Feb 2024 04:40 pm
Operator : SV125:dv
Sample : IL2,32,,2.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 20 13:25:58 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:05:03 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

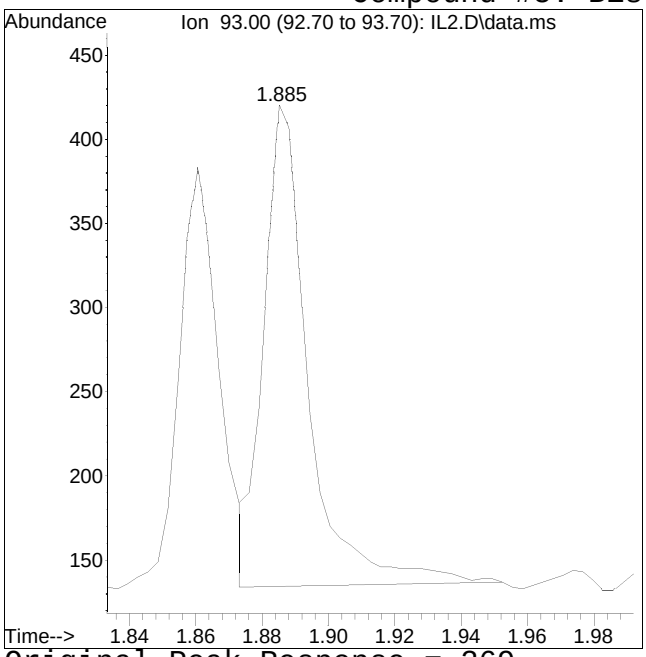


Manual Integration Report

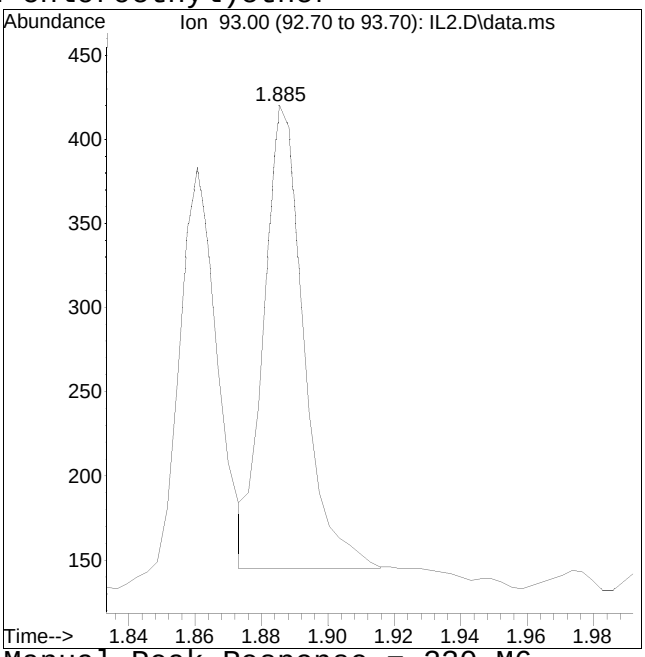
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL2.D
Date Inj'd : 2/23/2024 4:40 pm
Sample : IL2,32,,2.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:05 pm

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 269



Manual Peak Response = 230 M6

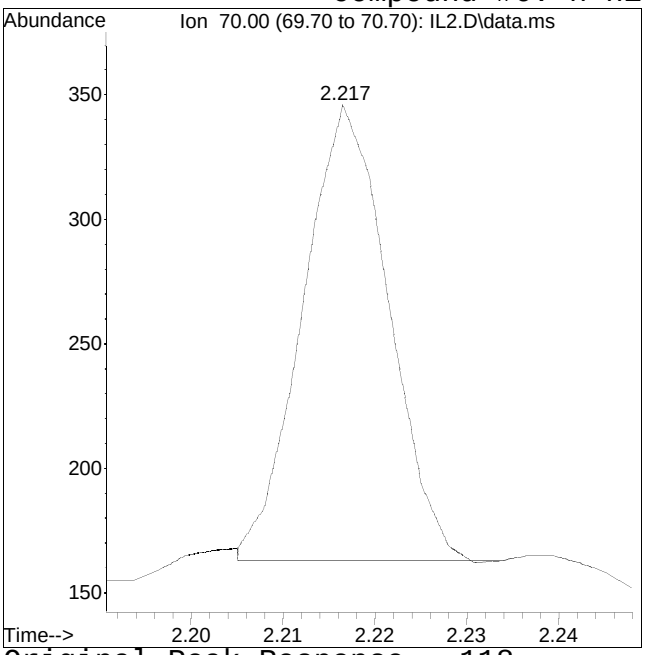
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

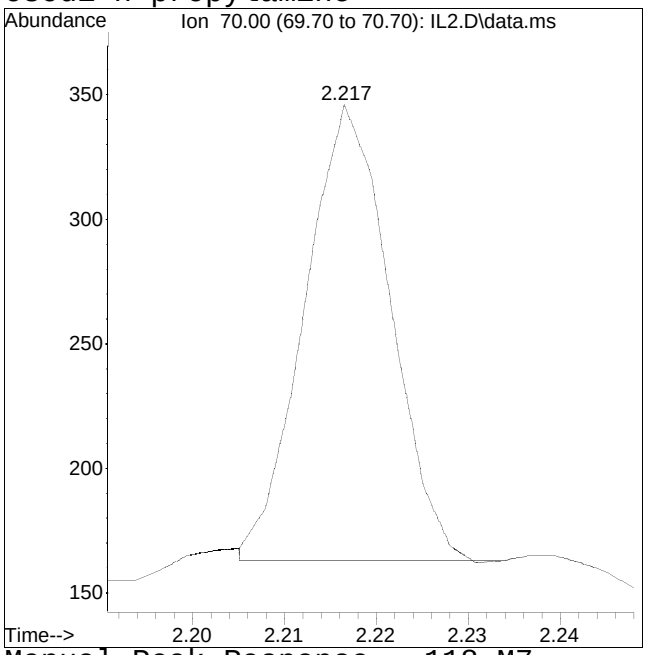
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL2.D
Date Inj'd : 2/23/2024 4:40 pm
Sample : IL2,32,,2.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:05 pm

Compound #6: n-nitrosodi-n-propylamine



Original Peak Response = 118



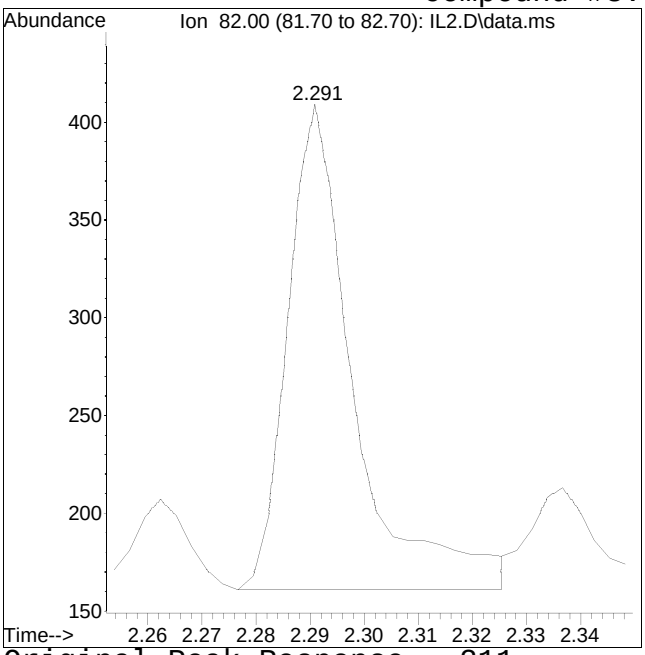
Manual Peak Response = 118 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

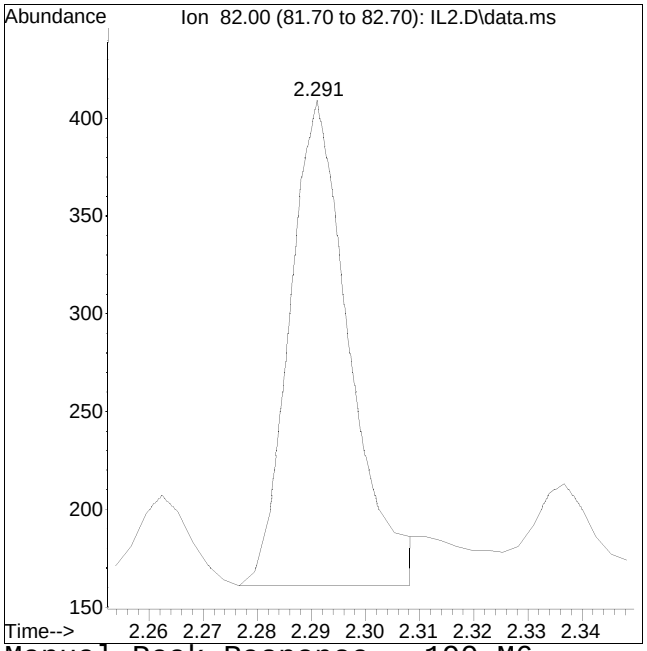
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:40 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml Quant Date : 2/27/2024 12:05 pm

Compound #8: Nitrobenzene-d5



Original Peak Response = 211



Manual Peak Response = 190 M6

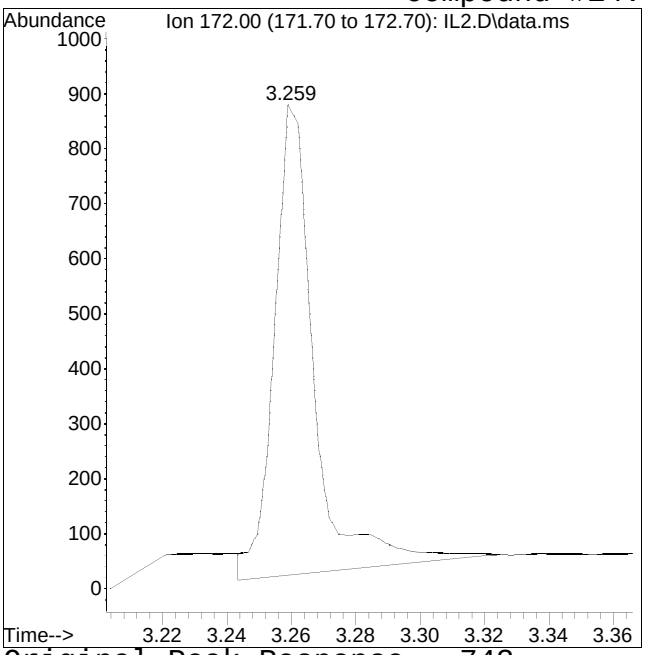
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

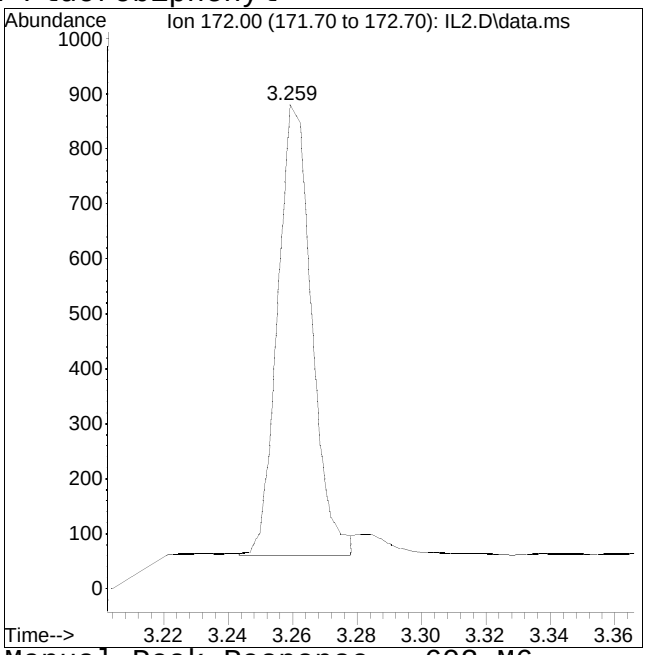
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL2.D
Date Inj'd : 2/23/2024 4:40 pm
Sample : IL2,32,,2.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:05 pm

Compound #14: 2-Fluorobiphenyl



Original Peak Response = 743



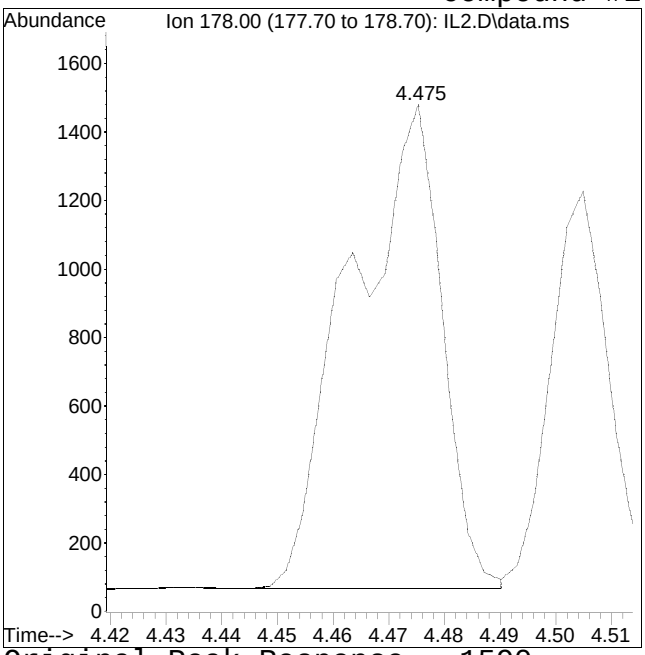
Manual Peak Response = 602 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

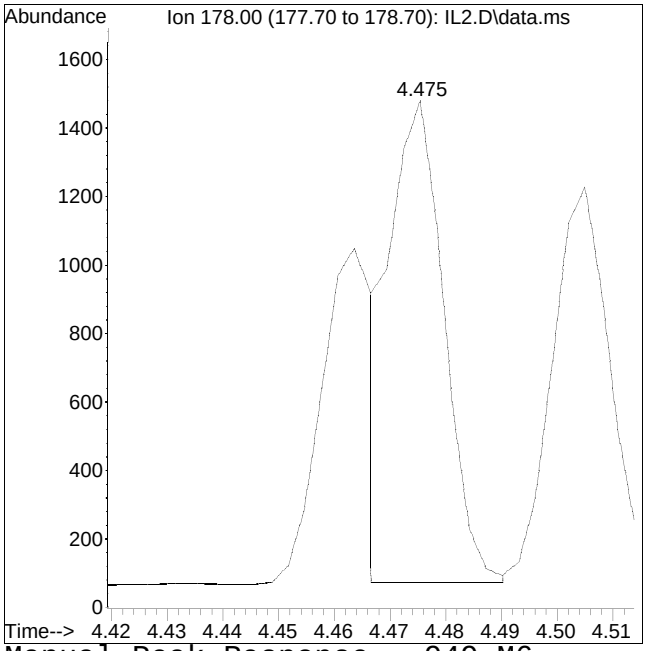
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:40 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml Quant Date : 2/27/2024 12:05 pm

Compound #27: Phenanthrene



Original Peak Response = 1590



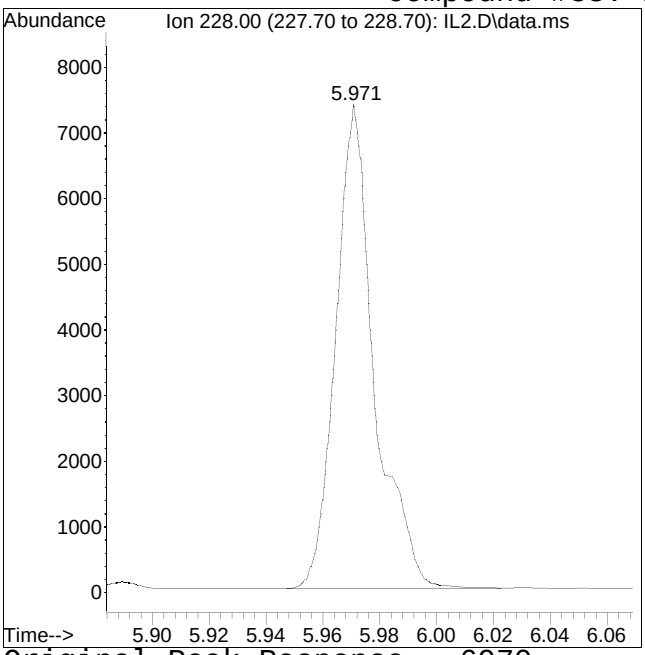
Manual Peak Response = 949 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

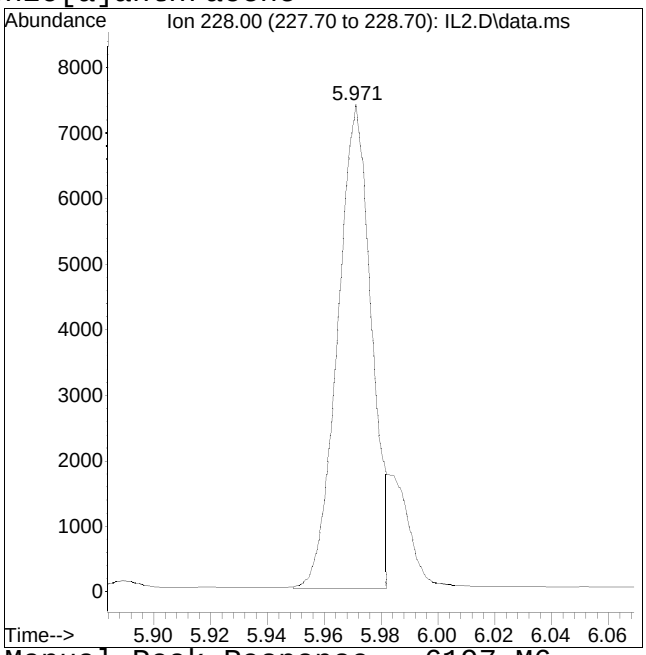
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:40 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml Quant Date : 2/27/2024 12:05 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 6970



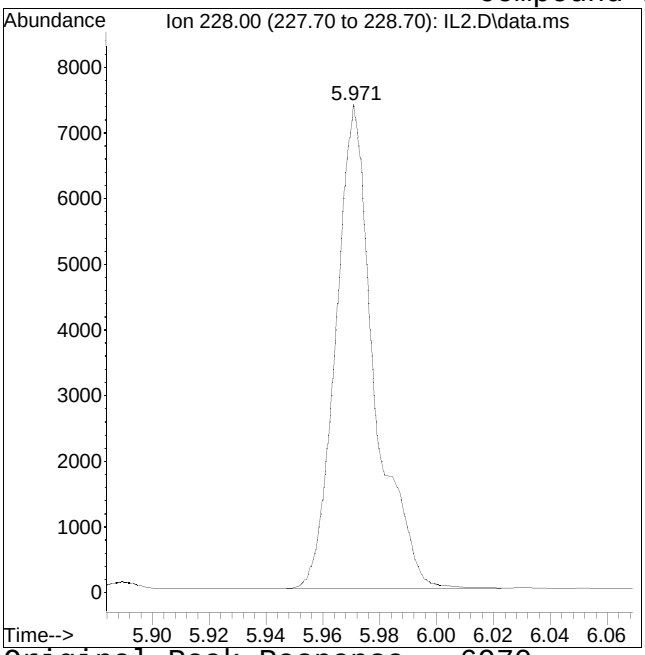
Manual Peak Response = 6197 M6

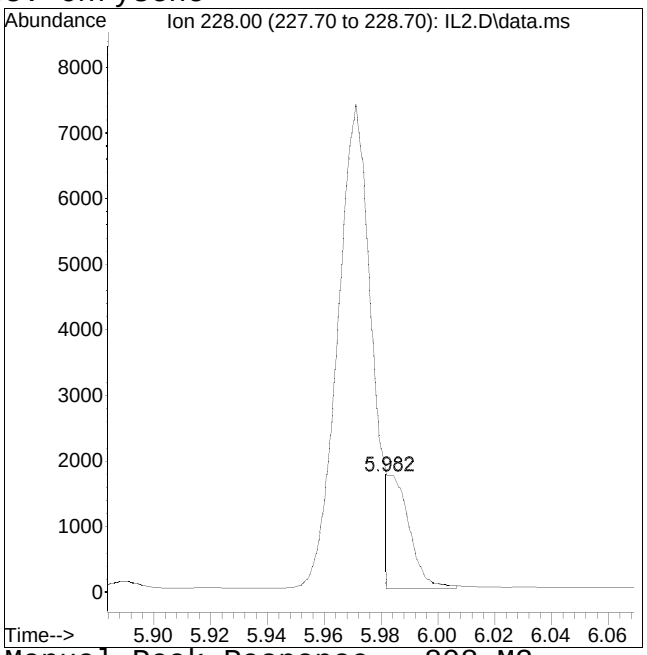
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:40 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml Quant Date : 2/27/2024 12:05 pm

Compound #35: Chrysene





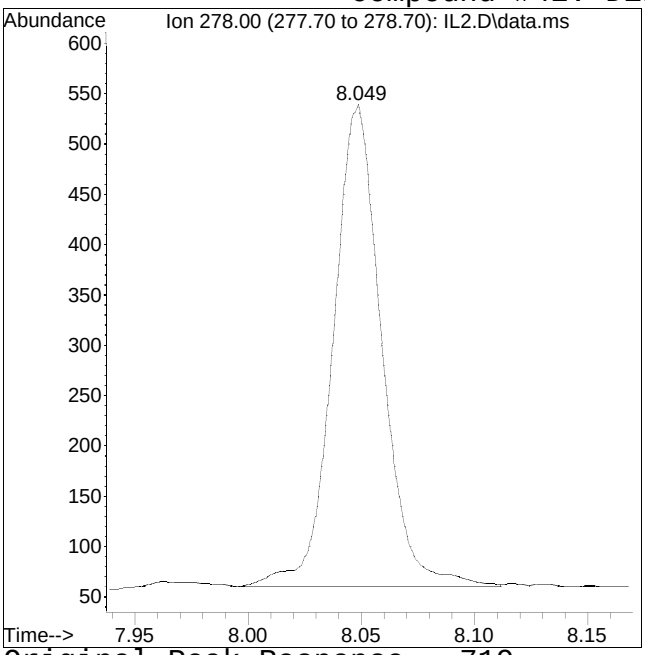
Original Peak Response = 6970 Manual Peak Response = 808 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

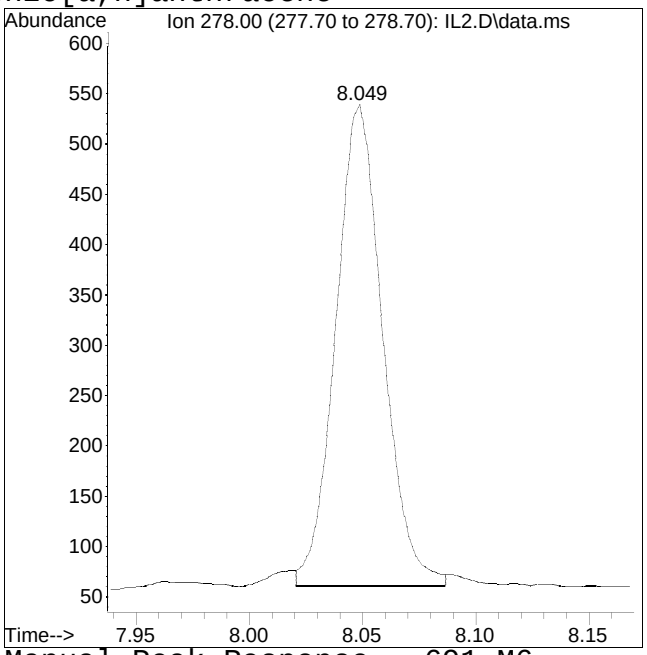
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:40 pm Instrument : SV125
Sample : IL2,32,,2.0 ng/ml Quant Date : 2/27/2024 12:05 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 719



Manual Peak Response = 691 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL1.D
Acq On : 23 Feb 2024 04:56 pm
Operator : SV125:dv
Sample : IL1,32,,1.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 27 12:04:11 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:04:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	383740	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 103.64%			
9) Naphthalene-d8	2.664	136	1316479	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 98.28%			
18) Acenaphthene-d10	3.632	164	763191	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 95.24%			
23) Phenanthrene-d10	4.464	188	1658980	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 94.97%			
32) Chrysene-d12	5.971	240	1491952	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 100.86%			
37) Perylene-d12	6.989	264	1476180	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 93.94%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.449	112	120	1.057	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.02%#			
4) Phenol-d6	1.843	99	127	0.967	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.02%#			
8) Nitrobenzene-d5	2.294	82	103	0.968	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.04%#			
14) 2-Fluorobiphenyl	3.260	172	324M6	0.987	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.04%#			
22) 2,4,6-Tribromophenol	4.075	330	40M6	0.940	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.02%#			
31) 4-Terphenyl-d14	5.376	244	401	1.183	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.05%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.889	93	121M6	1.031	ng/ml	
6) n-nitrosodi-n-propylamine	2.220	70	79M6	1.045	ng/ml	
7) Hexachloroethane	2.263	117	57	1.095	ng/ml	97
10) Naphthalene	2.673	128	414M6	1.126	ng/ml	
11) Hexachlorobutadiene	2.749	225	76	1.085	ng/ml	92
12) 2-Methylnaphthalene	3.054	142	253	1.075	ng/ml	100
13) 1-Methylnaphthalene	3.108	142	249	1.117	ng/ml	93
15) 2-Chloronaphthalene	3.323	162	277	1.058	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL1.D
Acq On : 23 Feb 2024 04:56 pm
Operator : SV125:dv
Sample : IL1,32,,1.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 27 12:04:11 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:04:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
17) Acenaphthylene	3.551	152	406	1.042	ng/ml	97
19) Acenaphthene	3.648	153	271M4	1.039	ng/ml	
20) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
21) Fluorene	3.938	166	313	1.048	ng/ml	93
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
25) Hexachlorobenzene	4.251	284	126	1.081	ng/ml#	60
26) Pentachlorophenol	4.367	266	72	5.636	ng/ml	94
27) Phenanthrene	4.476	178	519M3	1.083	ng/ml	
28) Anthracene	4.505	178	486	1.049	ng/ml	99
29) Fluoranthene	5.149	202	598	1.075	ng/ml	98
30) Pyrene	5.274	202	635	1.092	ng/ml	100
33) Benzo[a]anthracene	5.971	228	5673M6	1.105	ng/ml	
34) 3,3'-Dichlorobenzene	5.960	252	184	18.541	ng/ml#	1
35) Chrysene	5.982	228	498M3	0.935	ng/ml	
36) Bis(2-ethylhexyl)phtha...	6.007	149	1481	28.416	ng/ml	99
38) Benzo[b]fluoranthene	6.672	252	524	1.020	ng/ml	98
39) Benzo[k]fluoranthene	6.694	252	447M6	0.934	ng/ml	
40) Benzo[a]pyrene	6.933	252	385	0.904	ng/ml	98
41) Indeno[1,2,3-cd]pyrene	8.021	276	401	0.945	ng/ml	100
42) Dibenzo[a,h]anthracene	8.055	278	367	0.933	ng/ml	97
43) Benzo[g,h,i]perylene	8.310	276	399	0.934	ng/ml	99

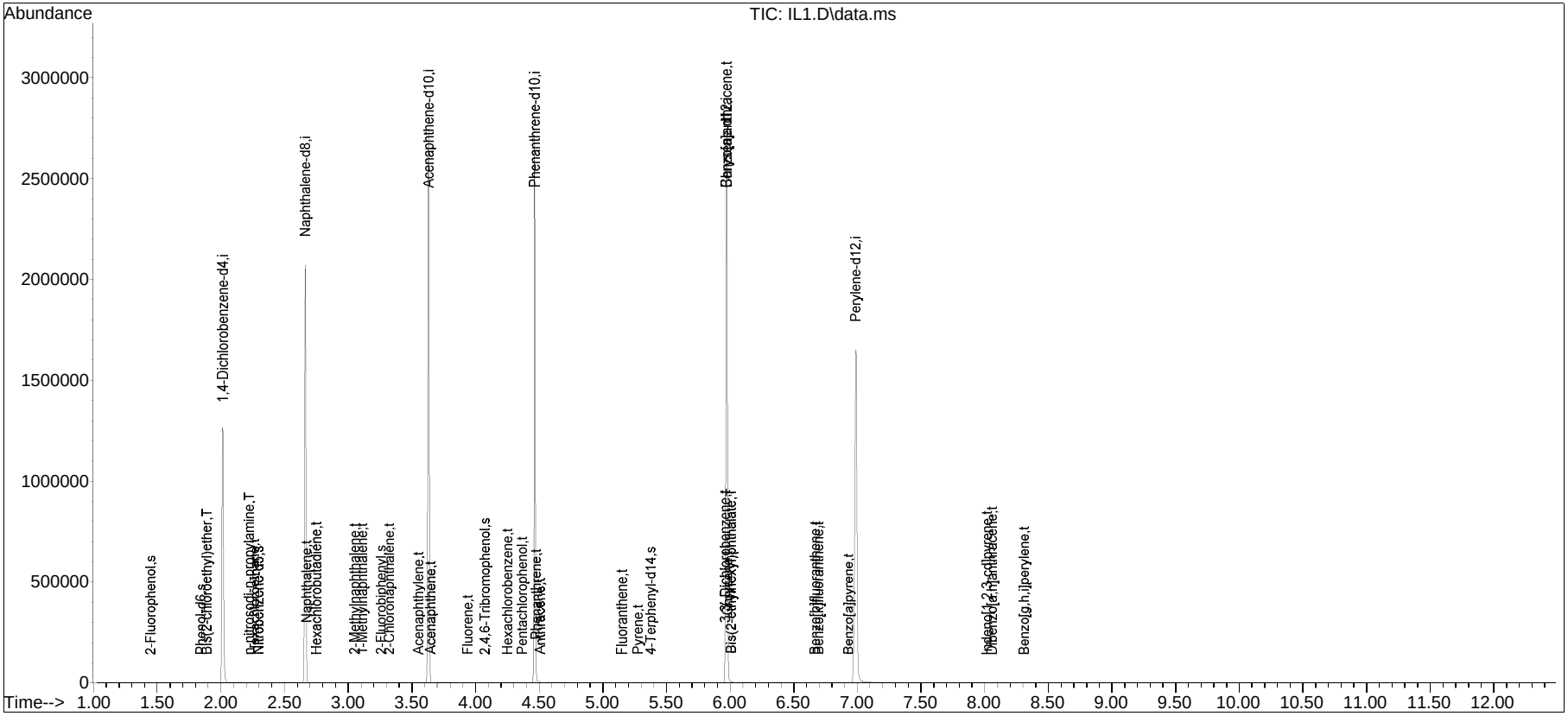
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : IL1.D
Acq On : 23 Feb 2024 04:56 pm
Operator : SV125:dv
Sample : IL1,32,,1.0 ng/ml
Misc : WG1889366,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 27 12:04:11 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 12:04:40 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

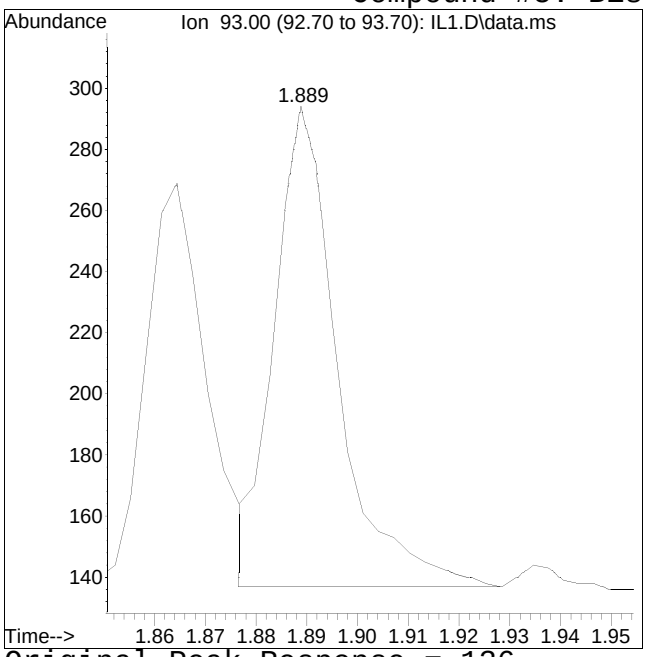


Manual Integration Report

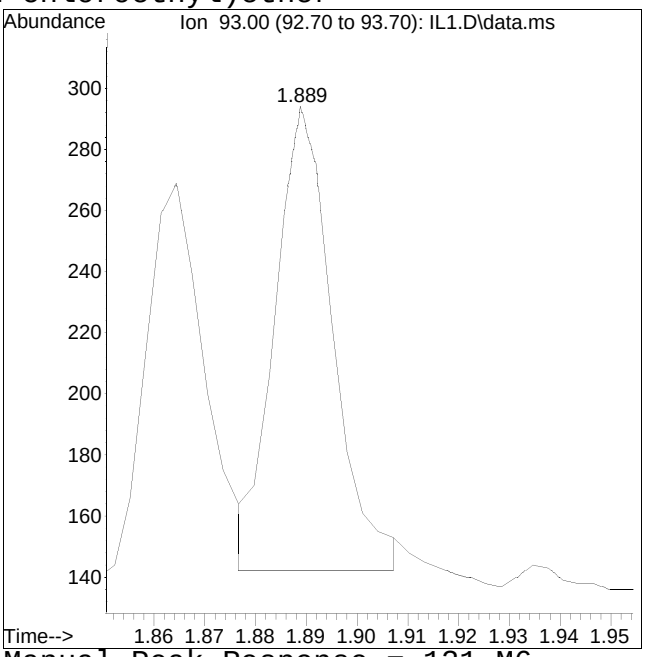
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL1.D
Date Inj'd : 2/23/2024 4:56 pm
Sample : IL1,32,,1.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:04 pm

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 136



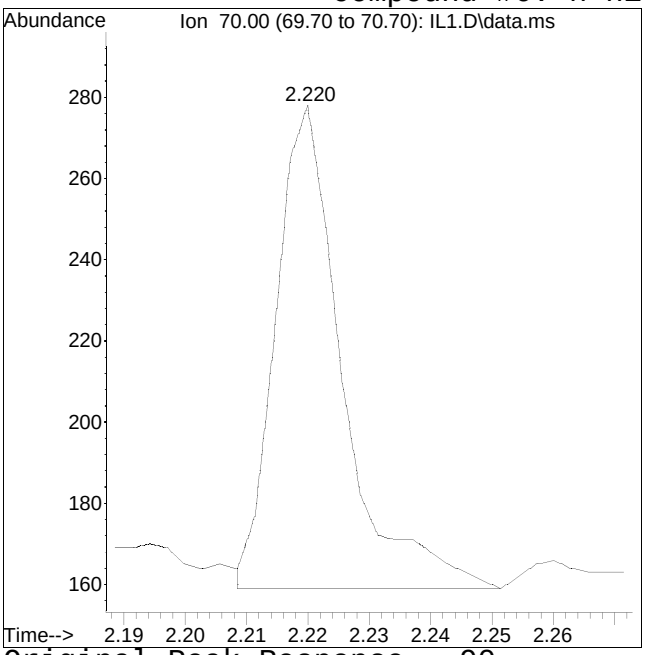
Manual Peak Response = 121 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

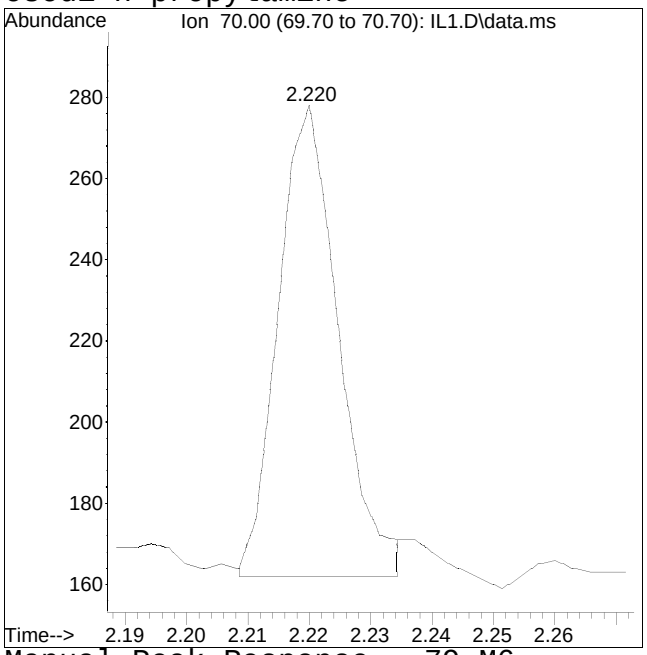
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:56 pm Instrument : SV125
Sample : IL1,32,,1.0 ng/ml Quant Date : 2/27/2024 12:04 pm

Compound #6: n-nitrosodi-n-propylamine



Original Peak Response = 90



Manual Peak Response = 79 M6

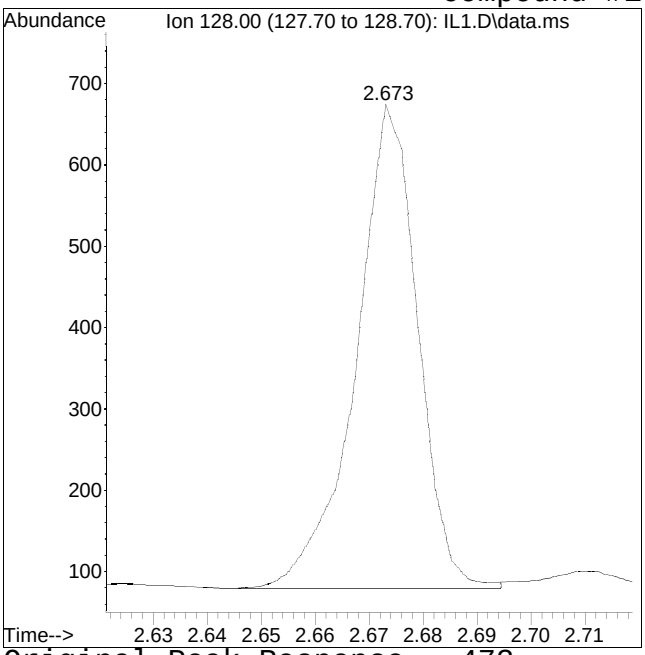
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

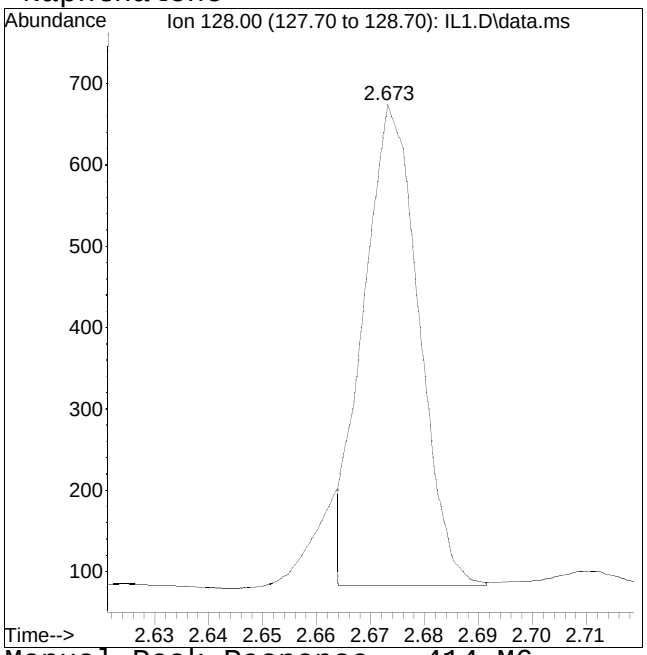
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL1.D
Date Inj'd : 2/23/2024 4:56 pm
Sample : IL1,32,,1.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:04 pm

Compound #10: Naphthalene



Original Peak Response = 473



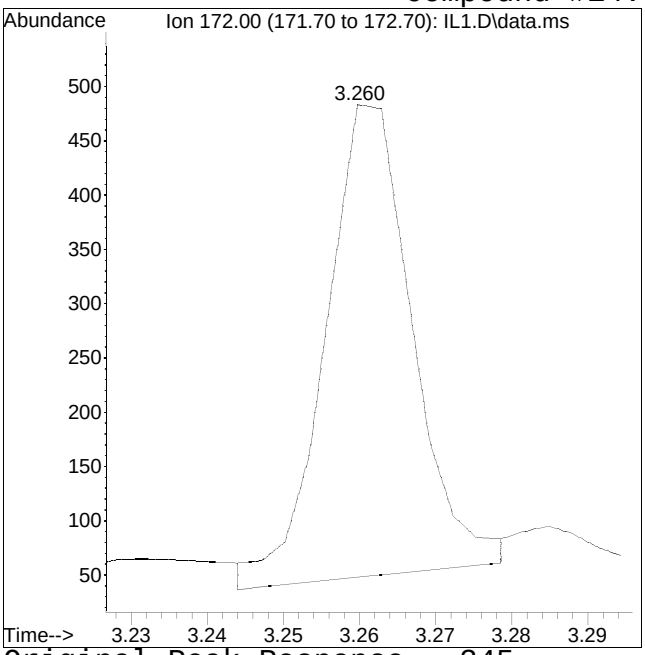
Manual Peak Response = 414 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

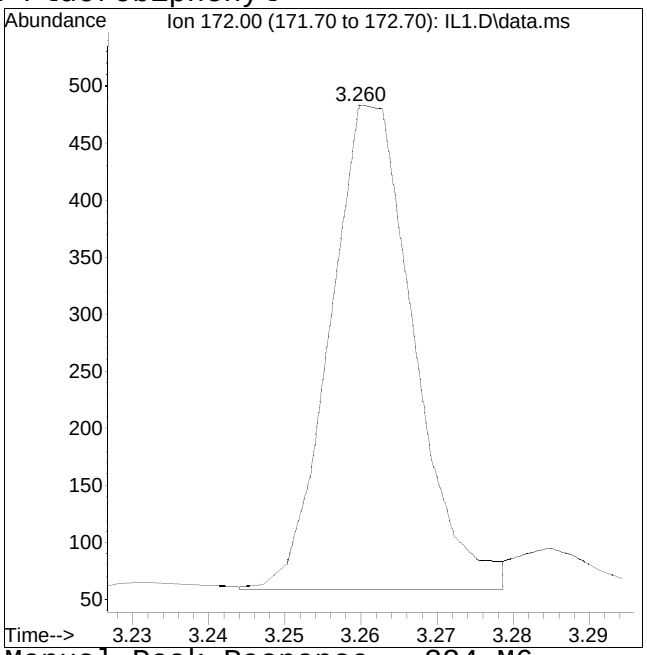
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:56 pm Instrument : SV125
Sample : IL1,32,,1.0 ng/ml Quant Date : 2/27/2024 12:04 pm

Compound #14: 2-Fluorobiphenyl



Original Peak Response = 345



Manual Peak Response = 324 M6

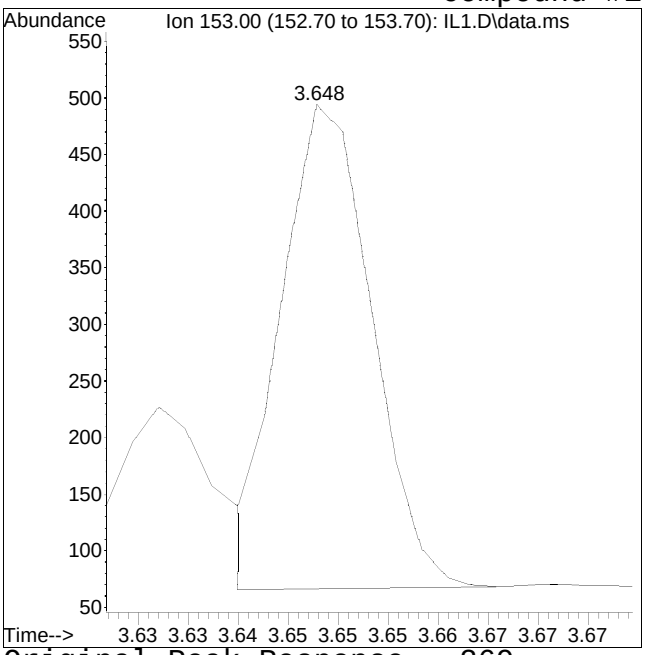
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

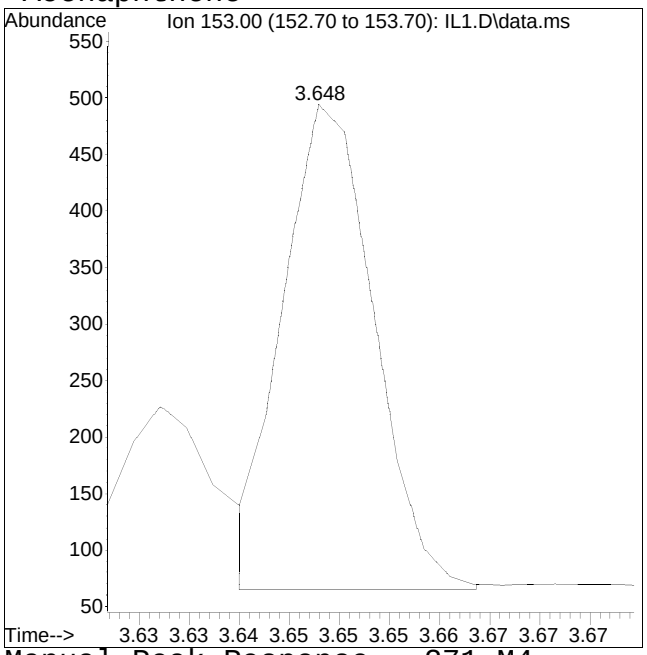
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL1.D
Date Inj'd : 2/23/2024 4:56 pm
Sample : IL1,32,,1.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:04 pm

Compound #19: Acenaphthene



Original Peak Response = 269



Manual Peak Response = 271 M4

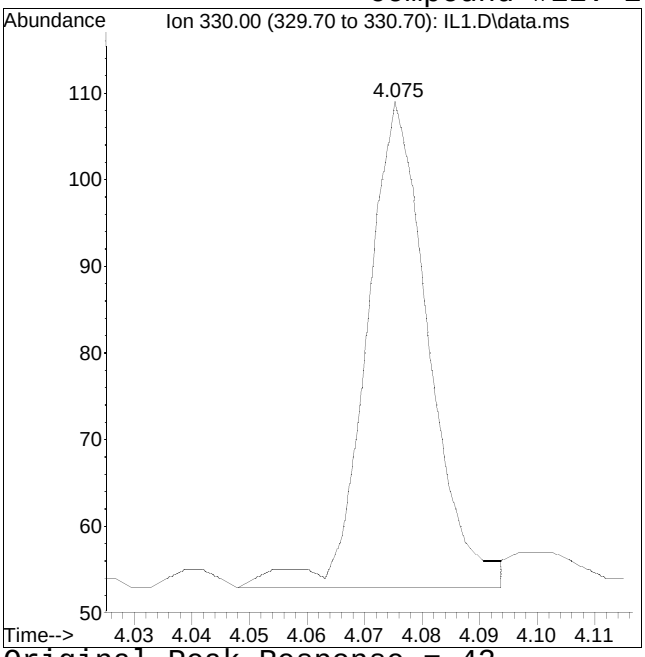
M4 = Poor automated baseline construction.

Manual Integration Report

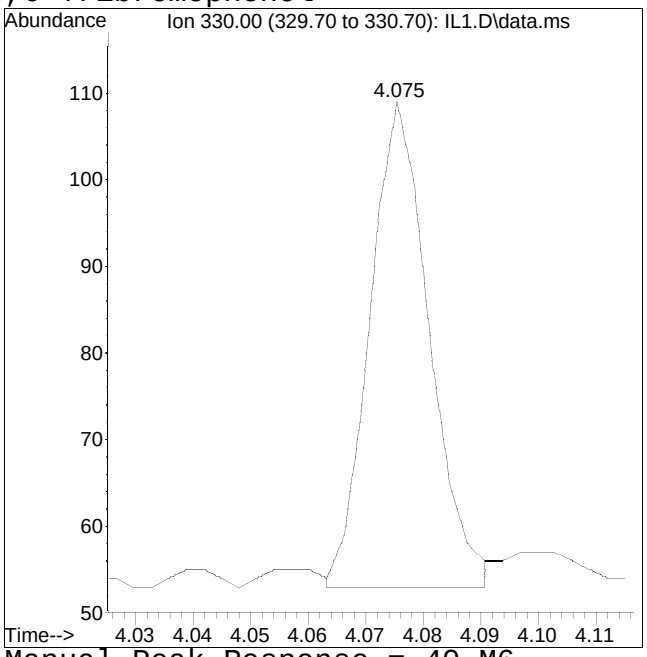
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL1.D
Date Inj'd : 2/23/2024 4:56 pm
Sample : IL1,32,,1.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:04 pm

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 42



Manual Peak Response = 40 M6

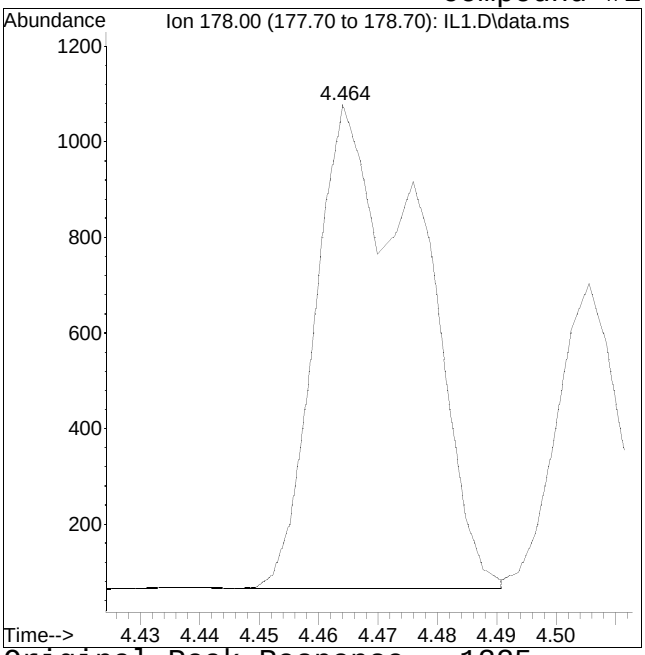
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

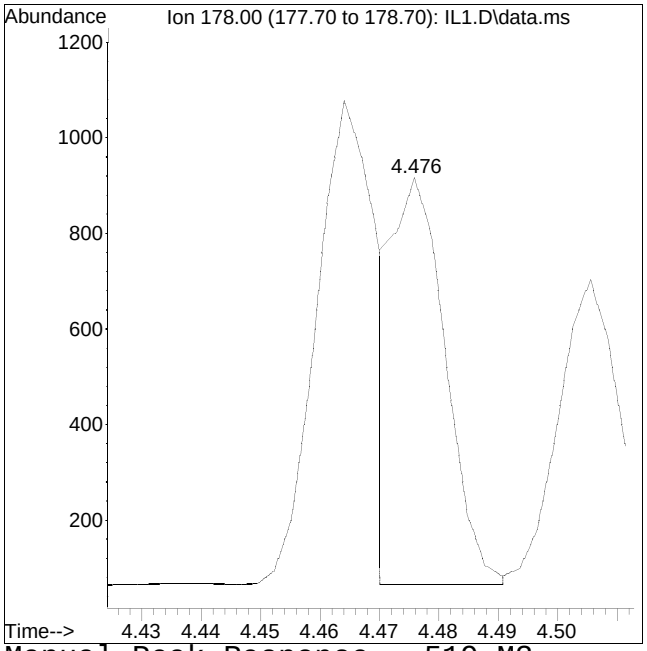
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL1.D
Date Inj'd : 2/23/2024 4:56 pm
Sample : IL1,32,,1.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:04 pm

Compound #27: Phenanthrene





Original Peak Response = 1225 Manual Peak Response = 519 M3

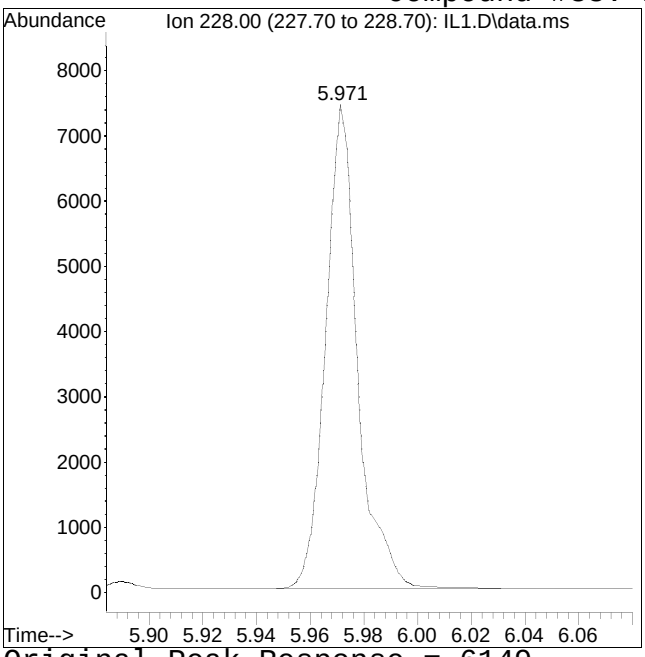
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

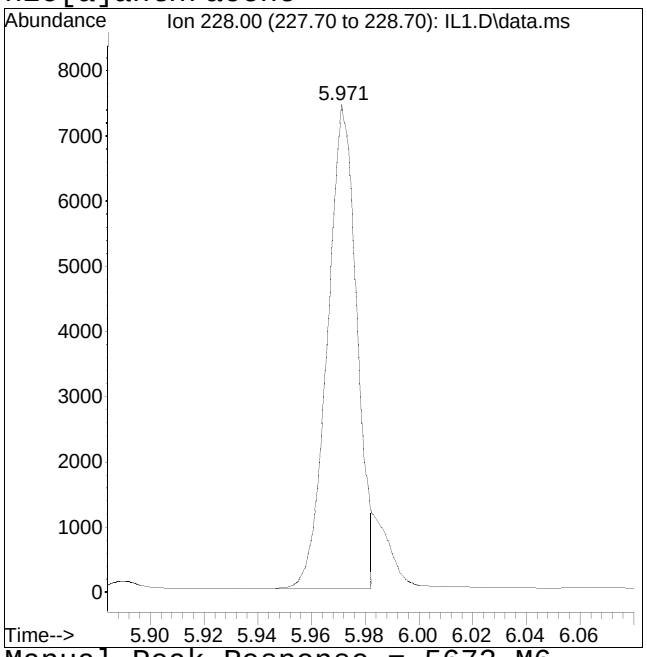
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL1.D
Date Inj'd : 2/23/2024 4:56 pm
Sample : IL1,32,,1.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:04 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 6149



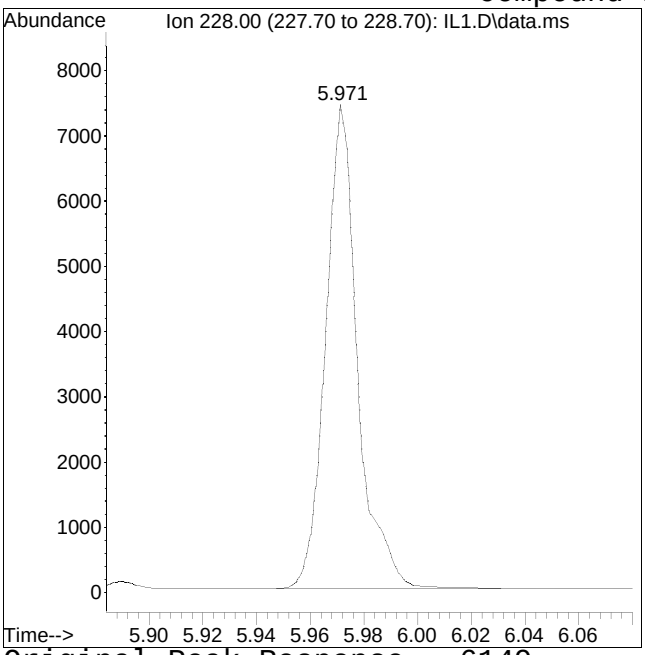
Manual Peak Response = 5673 M6

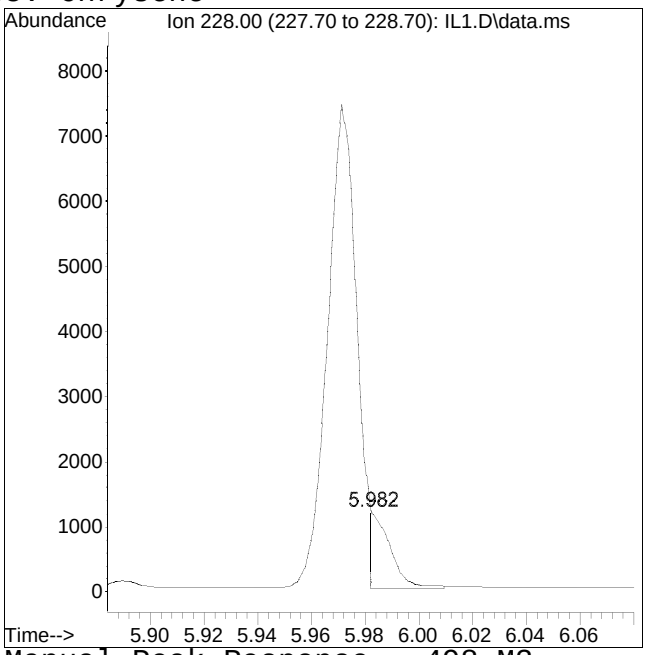
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQMethod : SIM-RVT_240223_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 2/23/2024 4:56 pm Instrument : SV125
Sample : IL1,32,,1.0 ng/ml Quant Date : 2/27/2024 12:04 pm

Compound #35: Chrysene





Original Peak Response = 6149 Manual Peak Response = 498 M3

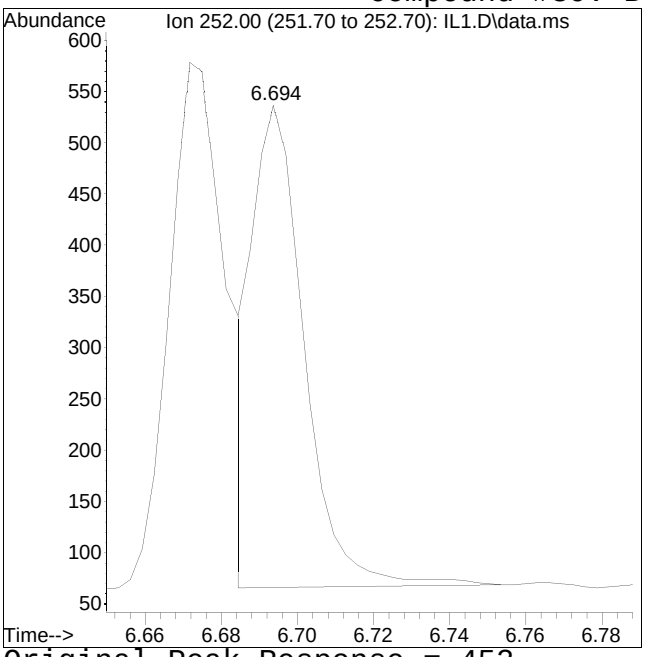
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

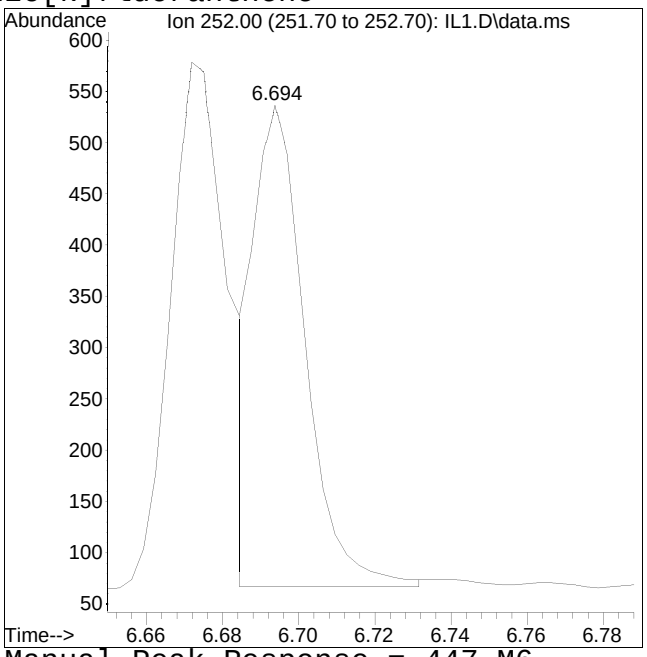
Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : IL1.D
Date Inj'd : 2/23/2024 4:56 pm
Sample : IL1,32,,1.0 ng/ml

Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 2/27/2024 12:04 pm

Compound #39: Benzo[k]fluoranthene



Original Peak Response = 452



Manual Peak Response = 447 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : ICV.D
Acq On : 23 Feb 2024 05:12 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10475
Misc : WG1889366,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 20 14:03:43 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:00 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2	T	1,4-Dioxane	0.000	0.000#	0.0	0#	-1.90#
3	s	2-Fluorophenol	1.183	1.166	1.4	99	0.00
4	s	Phenol-d6	1.370	1.381	-0.8	99	0.00
5	T	Bis(2-chloroethyl)ether	1.221	1.202	1.6	103	0.00
6	T	n-nitrosodi-n-propylamine	0.788	0.854	-8.4	100	0.00
7	t	Hexachloroethane	0.543	0.538	0.9	101	0.00
8	s	Nitrobenzene-d5	1.109	1.142	-3.0	96	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	104	0.00
10	t	Naphthalene	1.117	1.074	3.8	102	0.00
11	t	Hexachlorobutadiene	0.213	0.213	0.0	104	0.00
12	t	2-Methylnaphthalene	0.715	0.710	0.7	103	0.00
13	t	1-Methylnaphthalene	0.677	0.655	3.2	102	0.00
14	s	2-Fluorobiphenyl	0.918	0.892	2.8	101	0.00
15	t	2-Chloronaphthalene	0.796	0.788	1.0	101	0.00
16	t	2,6-Dinitrotoluene	*1000.000	914.638	8.5	92	0.00
17	t	Acenaphthylene	1.184	1.238	-4.6	98	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
19	t	Acenaphthene	1.368	1.405	-2.7	103	0.00
20	t	2,4-Dinitrotoluene	*1000.000	904.802	9.5	90	0.00
21	t	Fluorene	1.565	1.603	-2.4	99	0.00
22	s	2,4,6-Tribromophenol	0.223	0.239	-7.2	93	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	101	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	851.853	14.8	84	0.00
25	t	Hexachlorobenzene	0.277	0.276	0.4	98	0.00
26	t	Pentachlorophenol	*1000.000	938.041	6.2	92	0.00
27	t	Phenanthrene	1.157	1.144	1.1	98	0.00
28	t	Anthracene	1.117	1.181	-5.7	98	0.00
29	t	Fluoranthene	1.341	1.399	-4.3	97	0.00
30	t	Pyrene	1.402	1.446	-3.1	96	0.00
31	s	4-Terphenyl-d14	0.817	0.793	2.9	96	0.00
32	i	Chrysene-d12	1.000	1.000	0.0	99	0.00
33	t	Benzo[a]anthracene	*1000.000	1003.740	-0.4	94	0.00
34	t	3,3'-Dichlorobenzene	*1000.000	928.085	7.2	90	0.00
35	t	Chrysene	1.429	1.539	-7.7	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : ICV.D
Acq On : 23 Feb 2024 05:12 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10475
Misc : WG1889366,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 20 14:03:43 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:00 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	T	Bis(2-ethylhexyl)phthalate	*1000.000	908.326	9.2	92	0.00
37	i	Perylene-d12	1.000	1.000	0.0	99	0.00
38	t	Benzo[b]fluoranthene	1.392	1.485	-6.7	90	0.00
39	t	Benzo[k]fluoranthene	1.299	1.437	-10.6	103	0.00
40	t	Benzo[a]pyrene	1.155	1.318	-14.1	96	0.00
41	t	Indeno[1,2,3-cd]pyrene	1.150	1.277	-11.0	98	0.00
42	t	Dibenzo[a,h]anthracene	1.066	1.157	-8.5	96	0.00
43	t	Benzo[g,h,i]perylene	1.158	1.239	-7.0	97	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : ICV.D
Acq On : 23 Feb 2024 05:12 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10475
Misc : WG1889366,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 20 14:03:43 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.010	152	388258	4000.000	ng/ml	0.00
Standard Area 1 = 370269			Recovery = 104.86%			
9) Naphthalene-d8	2.663	136	1397310	4000.000	ng/ml	0.00
Standard Area 1 = 1339549			Recovery = 104.31%			
18) Acenaphthene-d10	3.633	164	828065	4000.000	ng/ml	0.00
Standard Area 1 = 801363			Recovery = 103.33%			
23) Phenanthrene-d10	4.466	188	1760069	4000.000	ng/ml	0.00
Standard Area 1 = 1746794			Recovery = 100.76%			
32) Chrysene-d12	5.972	240	1463669	4000.000	ng/ml	0.00
Standard Area 1 = 1479229			Recovery = 98.95%			
37) Perylene-d12	6.987	264	1561560	4000.000	ng/ml	0.00
Standard Area 1 = 1571448			Recovery = 99.37%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.443	112	113150	985.367	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.71%			
4) Phenol-d6	1.840	99	134056	1008.371	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.17%			
8) Nitrobenzene-d5	2.288	82	110883	1029.627	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.19%			
14) 2-Fluorobiphenyl	3.261	172	311609	971.181	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 38.85%			
22) 2,4,6-Tribromophenol	4.074	330	49454	1070.627	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.41%			
31) 4-Terphenyl-d14	5.375	244	348849	969.979	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 38.80%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.885	93	116676	984.846	ng/ml	98
6) n-nitrosodi-n-propylamine	2.214	70	82931	1084.456	ng/ml	99
7) Hexachloroethane	2.263	117	52268	992.581	ng/ml	99
10) Naphthalene	2.672	128	375204	961.803	ng/ml#	100
11) Hexachlorobutadiene	2.748	225	74241	998.701	ng/ml	100
12) 2-Methylnaphthalene	3.051	142	248053	992.642	ng/ml	100
13) 1-Methylnaphthalene	3.105	142	228722	966.830	ng/ml	100
15) 2-Chloronaphthalene	3.320	162	275433	990.955	ng/ml	100
16) 2,6-Dinitrotoluene	3.520	165	59389	914.638	ng/ml	99
17) Acenaphthylene	3.549	152	432628	1046.257	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : ICV.D
Acq On : 23 Feb 2024 05:12 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10475
Misc : WG1889366,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 20 14:03:43 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\240223RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.649	153	290779	1027.087	ng/ml	100
20) 2,4-Dinitrotoluene	3.746	165	80839	904.802	ng/ml	97
21) Fluorene	3.937	166	331844	1024.223	ng/ml	100
24) 4,6-Dinitro-o-cresol	3.973	198	36582	851.853	ng/ml	99
25) Hexachlorobenzene	4.250	284	121355M6	996.410	ng/ml	
26) Pentachlorophenol	4.365	266	59474	938.041	ng/ml	99
27) Phenanthrene	4.477	178	503306	988.896	ng/ml	100
28) Anthracene	4.504	178	519486	1056.607	ng/ml	100
29) Fluoranthene	5.148	202	615663	1043.164	ng/ml	100
30) Pyrene	5.273	202	636267	1031.070	ng/ml	100
33) Benzo[a]anthracene	5.964	228	588890	1003.740	ng/ml	100
34) 3,3'-Dichlorobenzene	5.959	252	225477	928.085	ng/ml	100
35) Chrysene	5.986	228	563206	1077.435	ng/ml	100
36) Bis(2-ethylhexyl)phtha...	6.005	149	348731	908.326	ng/ml	100
38) Benzo[b]fluoranthene	6.673	252	579653	1066.371	ng/ml	100
39) Benzo[k]fluoranthene	6.692	252	561183	1106.888	ng/ml	100
40) Benzo[a]pyrene	6.931	252	514396	1141.208	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.016	276	498687	1110.656	ng/ml	100
42) Dibenzo[a,h]anthracene	8.047	278	451495M6	1084.729	ng/ml	
43) Benzo[g,h,i]perylene	8.308	276	483523	1070.004	ng/ml	100

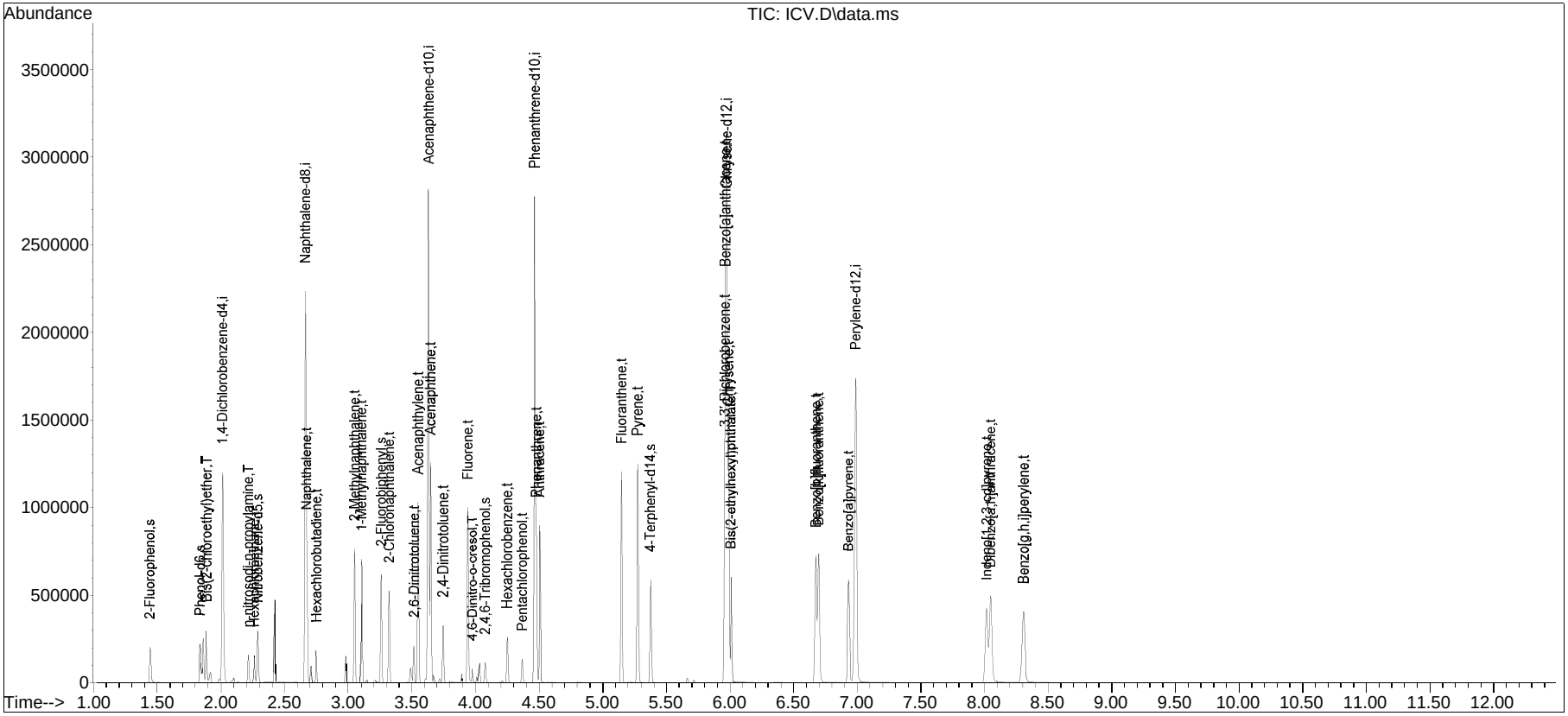
(#) = qualifier out of range (m) = manual integration (+) = signals summed

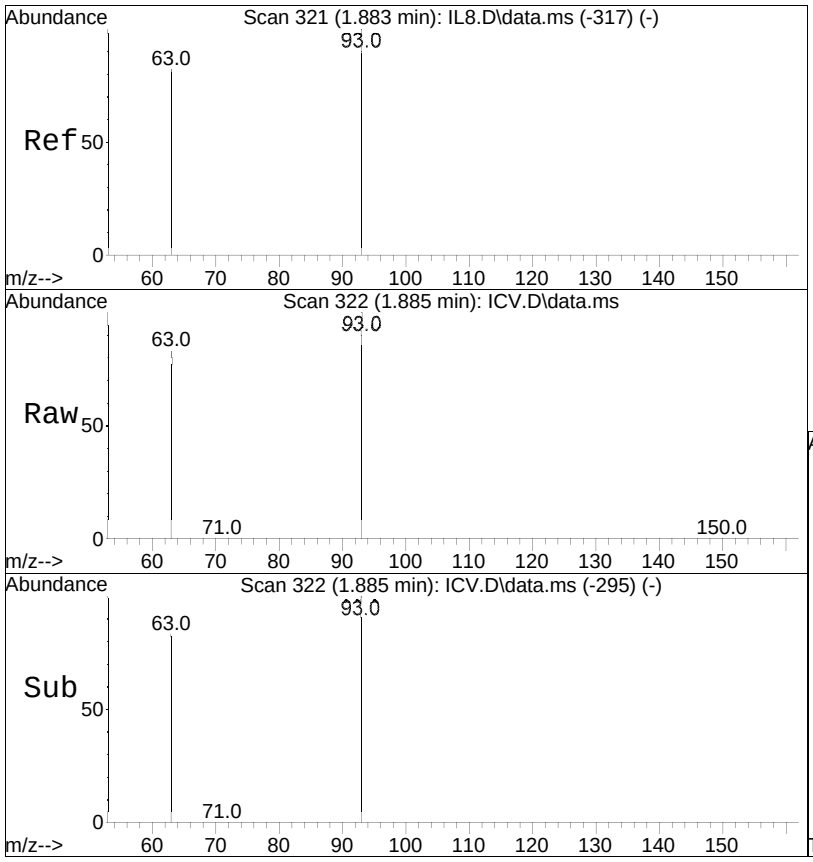
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240223RVTical\
Data File : ICV.D
Acq On : 23 Feb 2024 05:12 pm
Operator : SV125:dv
Sample : CQICV,32,, 1.000 Lot#10475
Misc : WG1889366,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 20 14:03:43 2024
Quant Method : I:\8270SIM\SV125\240223RVTical\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon May 20 14:04:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

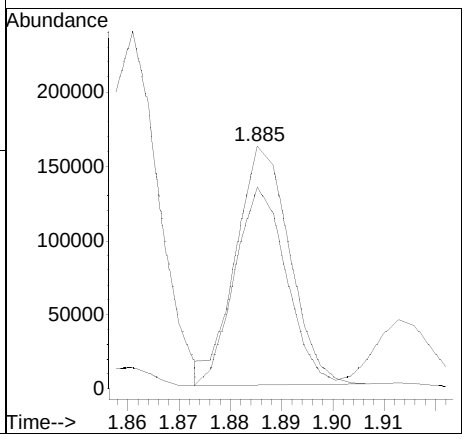


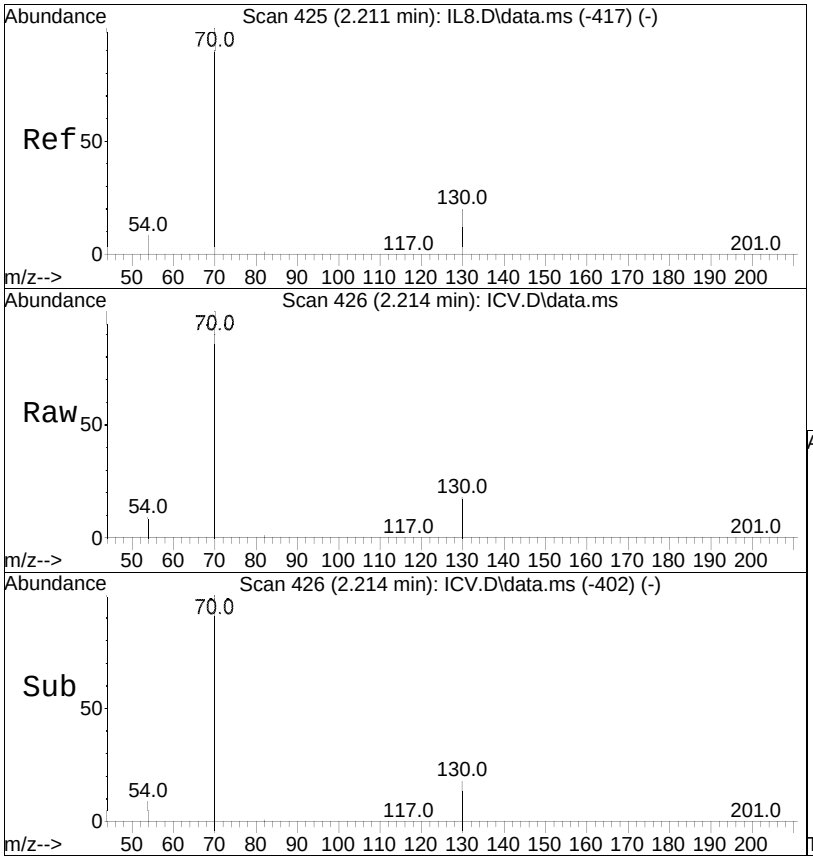


#5
Bis(2-chloroethyl)ether
Concen: 984.85 ng/ml
RT: 1.885 min Scan# 322
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion: 93 Resp: 116676

Ion	Ratio	Lower	Upper
93	100		
63	82.9	67.7	101.5

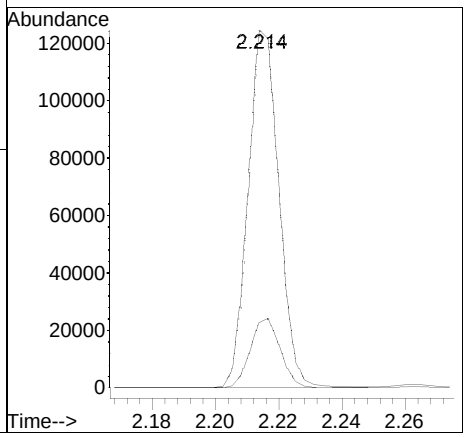


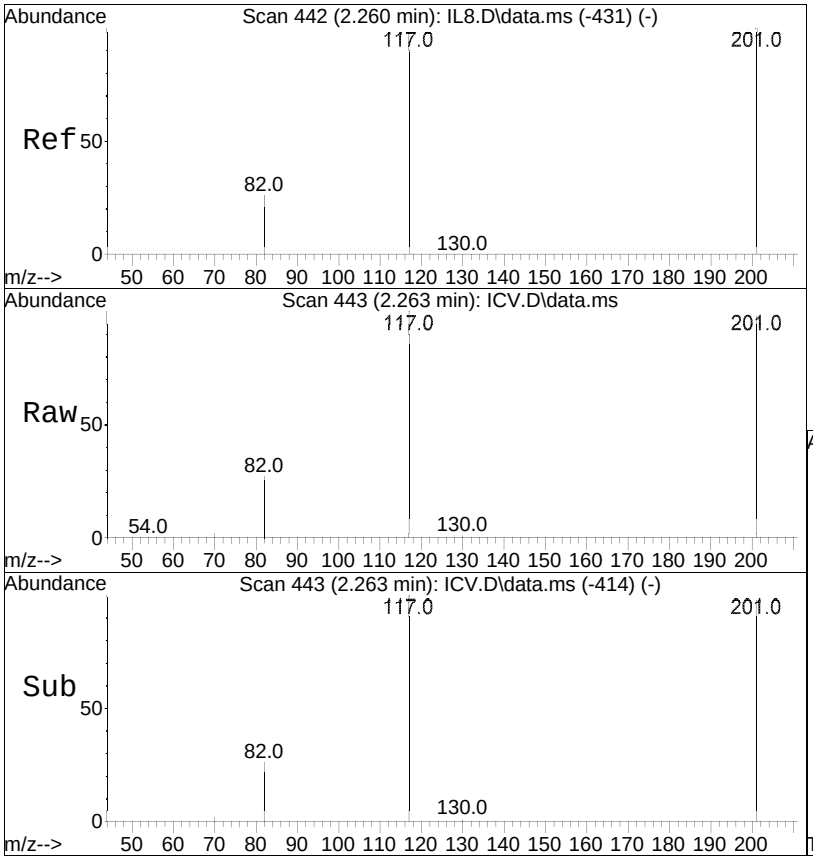


#6
n-nitrosodi-n-propylamine
Concen: 1084.46 ng/ml
RT: 2.214 min Scan# 426
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion: 70 Resp: 82931

Ion	Ratio	Lower	Upper
70	100		
130	19.0	15.7	23.5

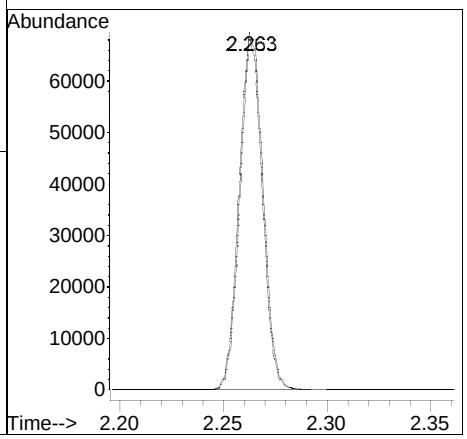


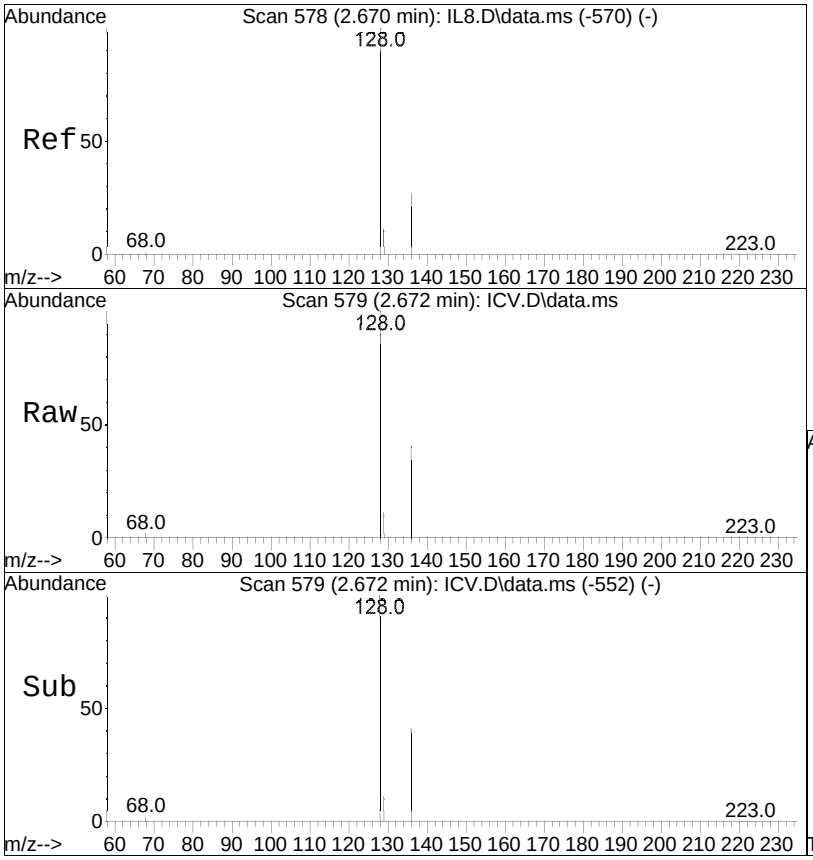


#7
Hexachloroethane
Concen: 992.58 ng/ml
RT: 2.263 min Scan# 443
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:117 Resp: 52268

Ion	Ratio	Lower	Upper
117	100		
201	100.4	80.8	121.2

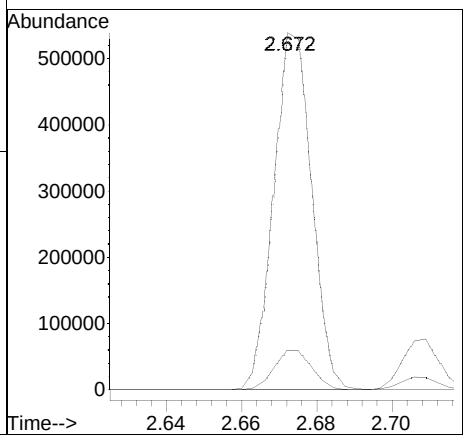


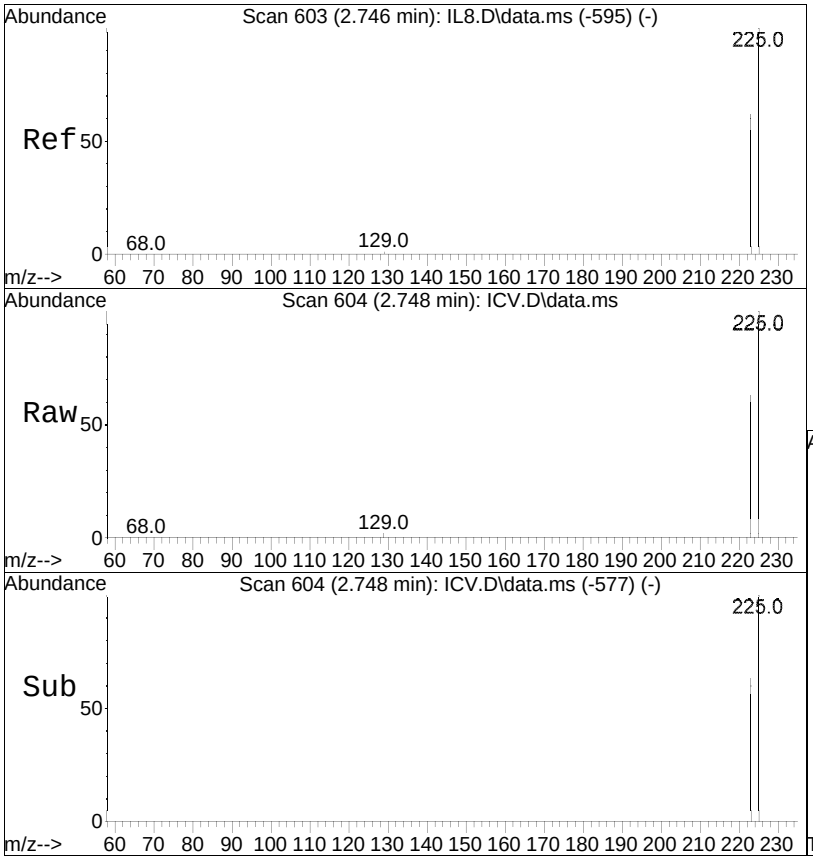


#10
Naphthalene
Concen: 961.80 ng/ml
RT: 2.672 min Scan# 579
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:128 Resp: 375204

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

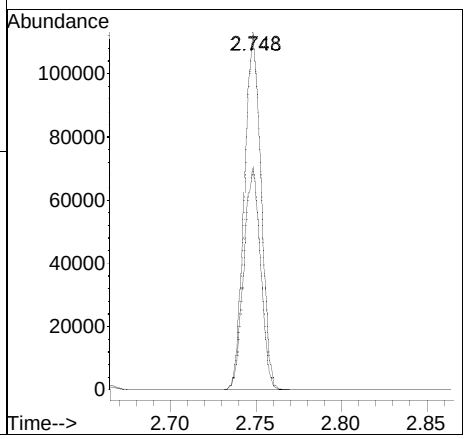


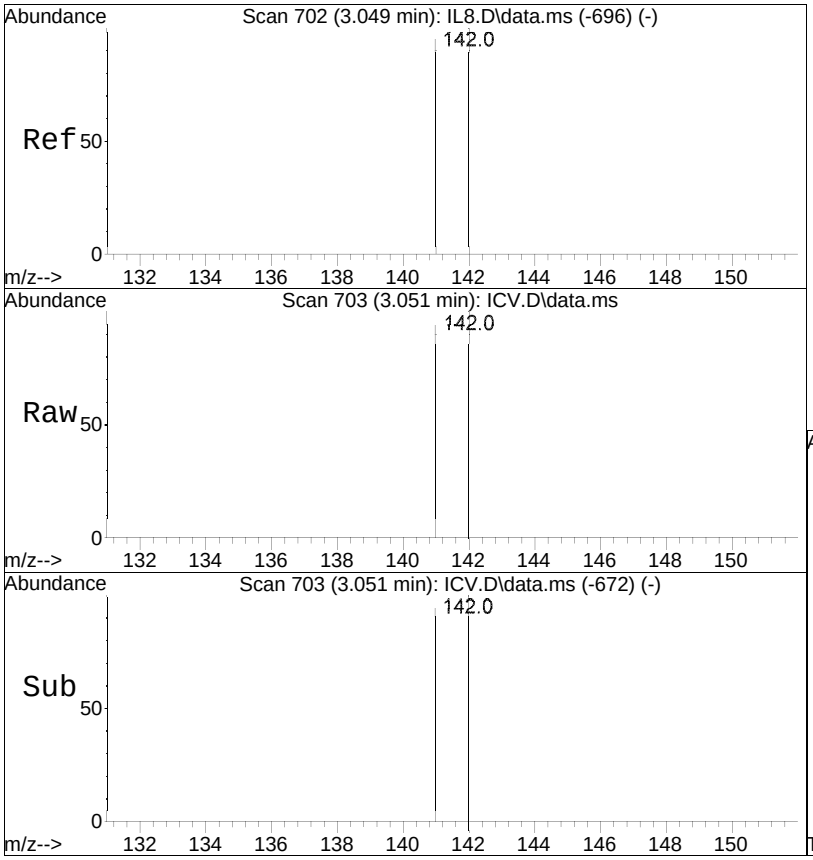


#11
Hexachlorobutadiene
Concen: 998.70 ng/ml
RT: 2.748 min Scan# 604
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:225 Resp: 74241

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4

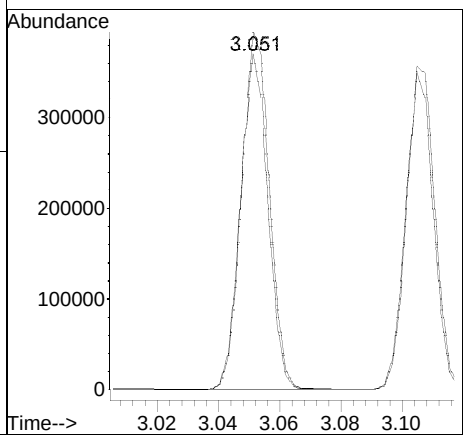


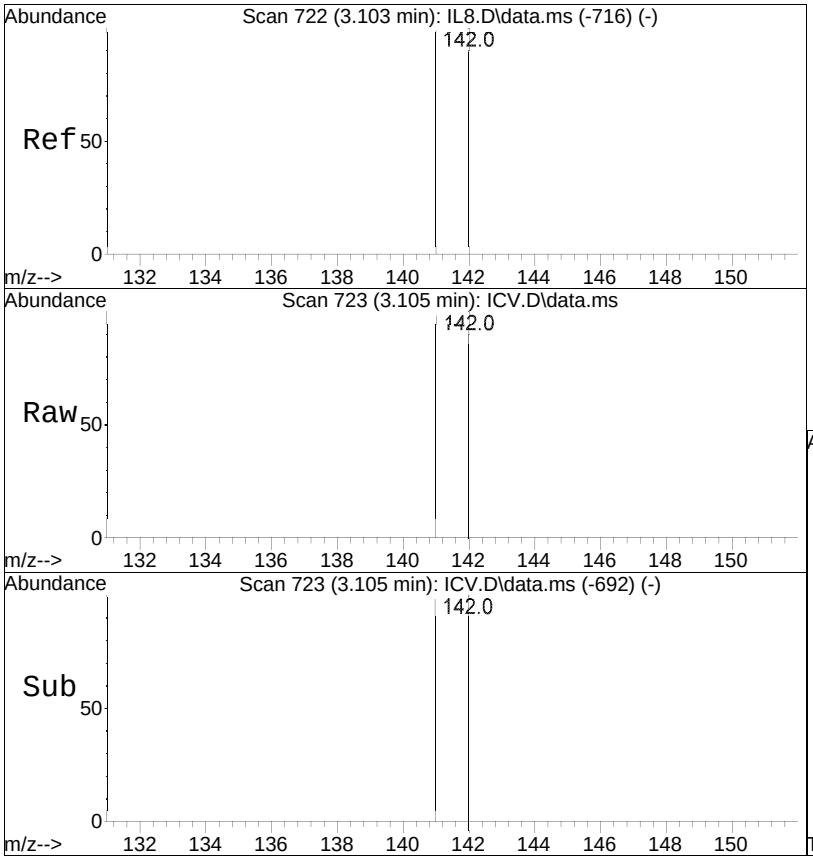


#12
2-Methylnaphthalene
Concen: 992.64 ng/ml
RT: 3.051 min Scan# 703
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:142 Resp: 248053

Ion	Ratio	Lower	Upper
142	100		
141	92.8	74.4	111.6

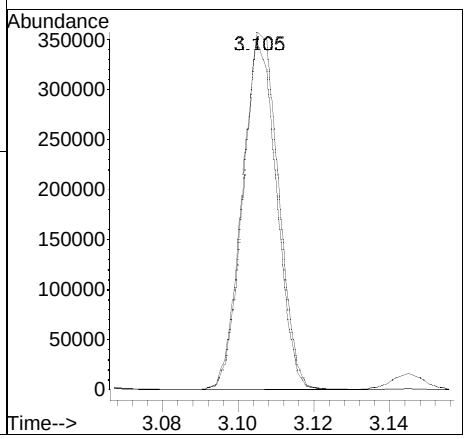


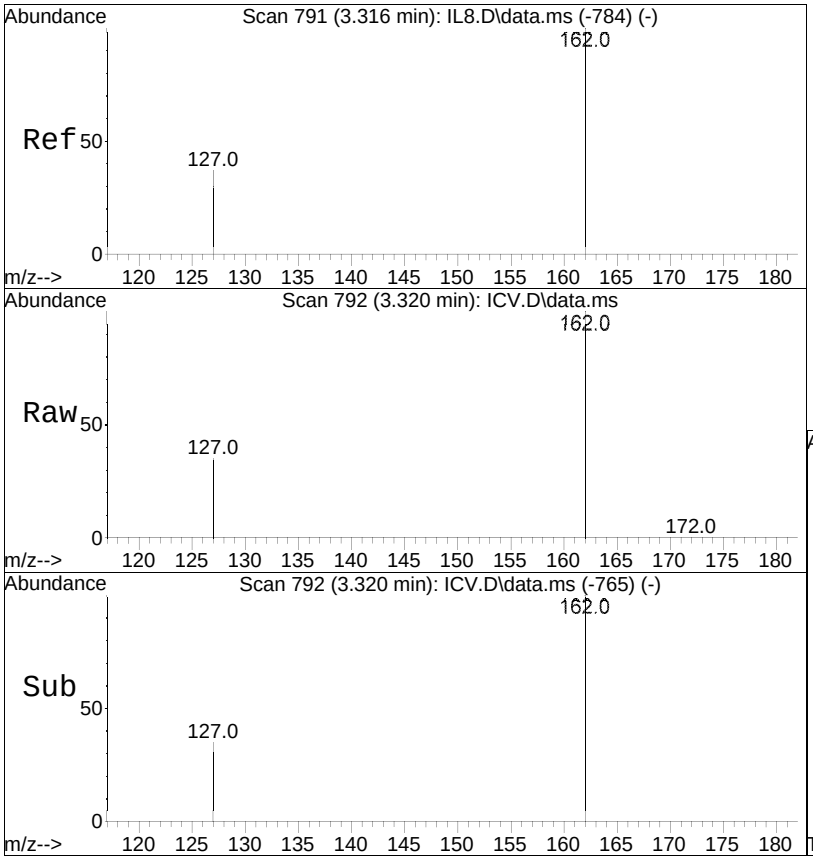


#13
1-Methylnaphthalene
Concen: 966.83 ng/ml
RT: 3.105 min Scan# 723
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:142 Resp: 228722

Ion	Ratio	Lower	Upper
142	100		
141	95.8	77.0	115.4

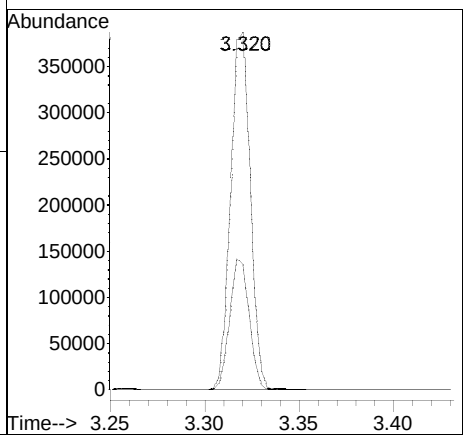


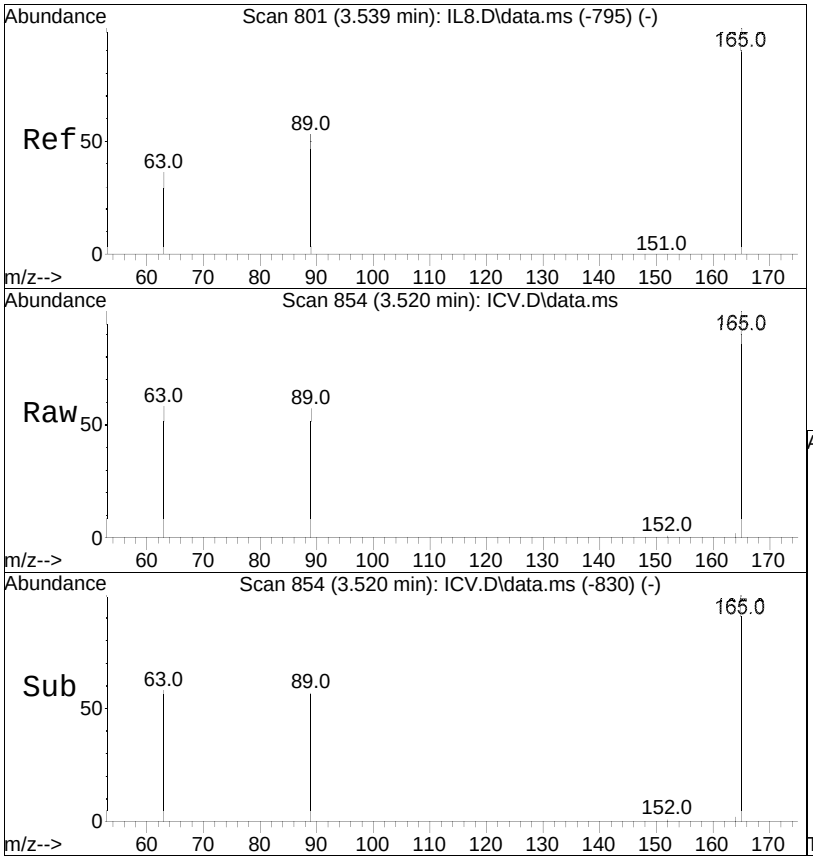


#15
2-Chloronaphthalene
Concen: 990.96 ng/ml
RT: 3.320 min Scan# 792
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:162 Resp: 275433

Ion	Ratio	Lower	Upper
162	100		
127	36.4	29.2	43.8

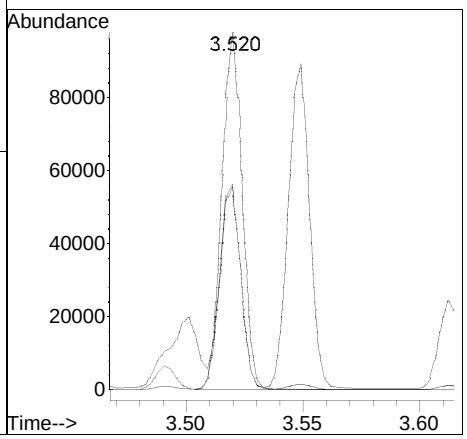


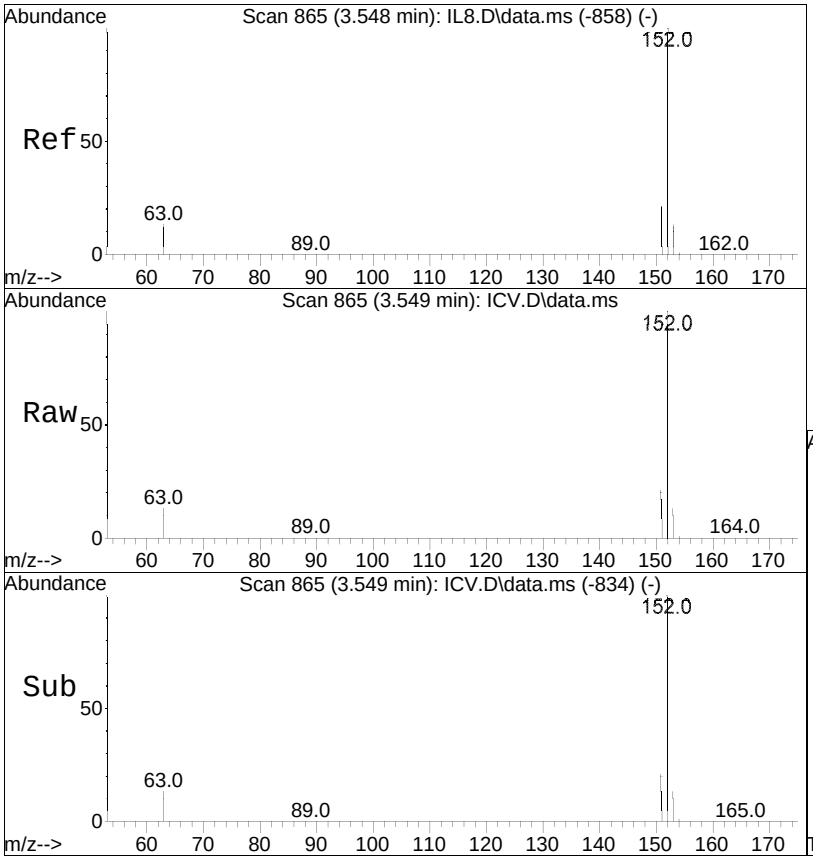


#16
2,6-Dinitrotoluene
Concen: 914.64 ng/ml
RT: 3.520 min Scan# 854
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:165 Resp: 59389

Ion	Ratio	Lower	Upper
165	100		
89	58.1	46.2	69.2
63	57.7	47.5	71.3

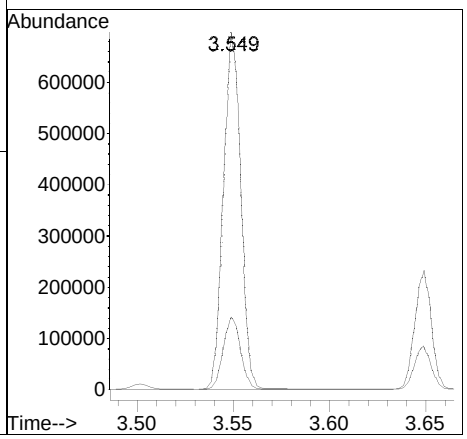


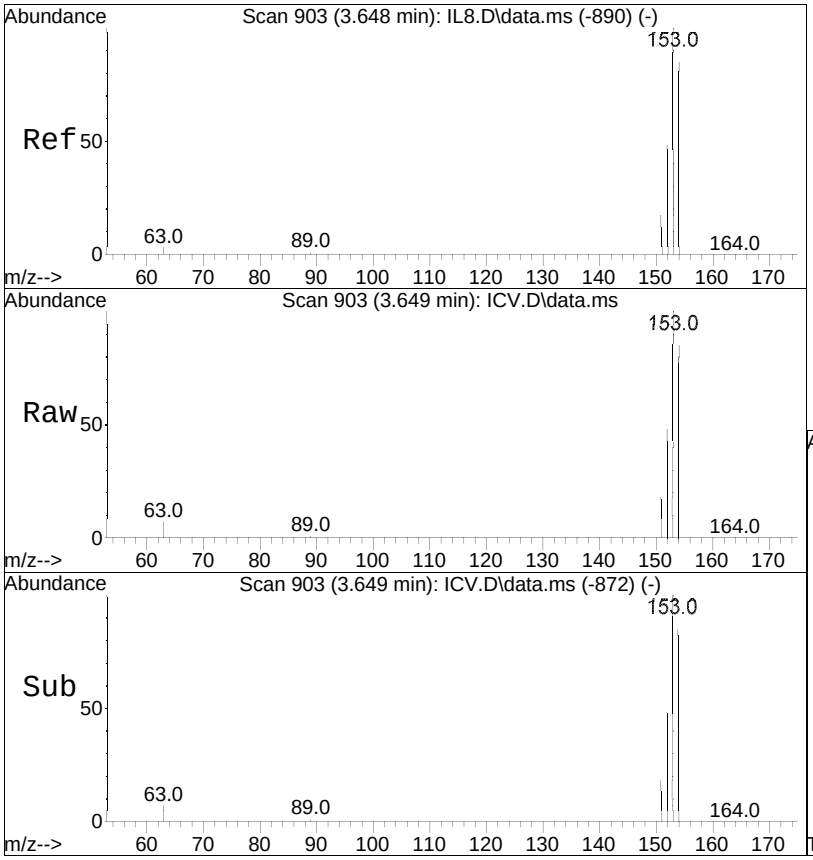


#17
Acenaphthylene
Concen: 1046.26 ng/ml
RT: 3.549 min Scan# 865
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:152 Resp: 432628

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6

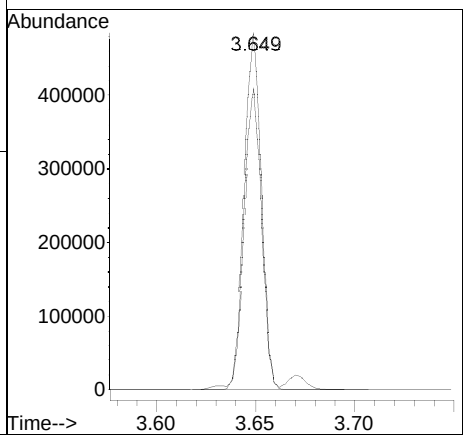


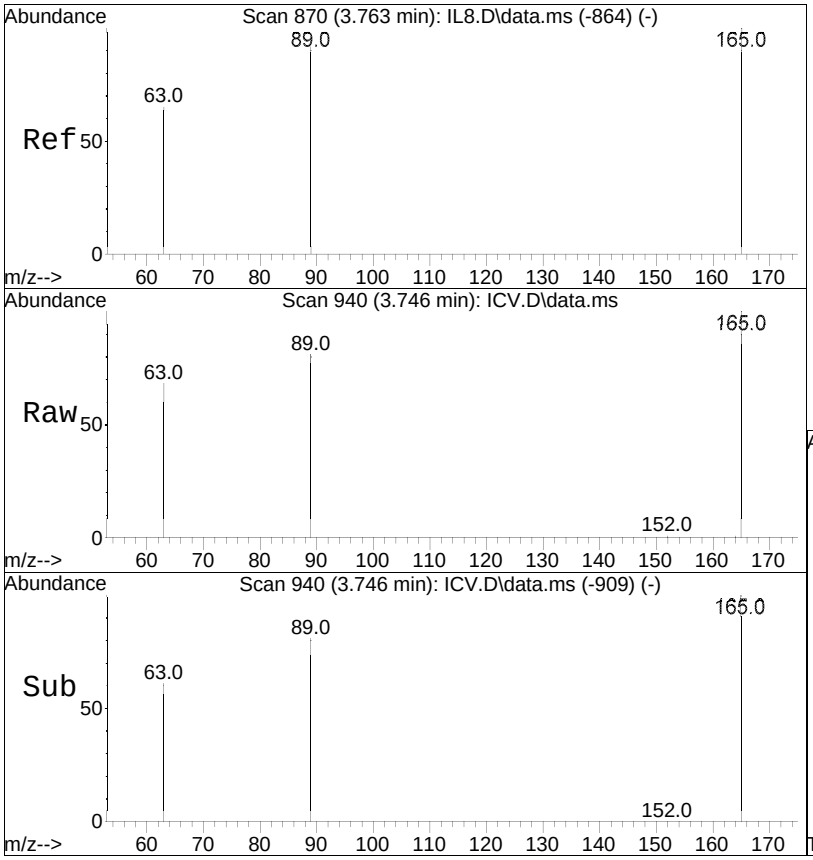


#19
Acenaphthene
Concen: 1027.09 ng/ml
RT: 3.649 min Scan# 903
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:153 Resp: 290779

Ion	Ratio	Lower	Upper
153	100		
154	85.6	68.4	102.6

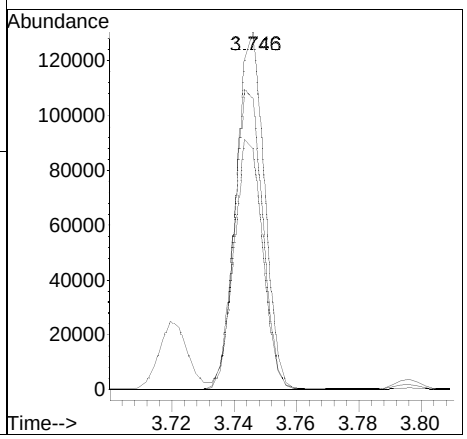


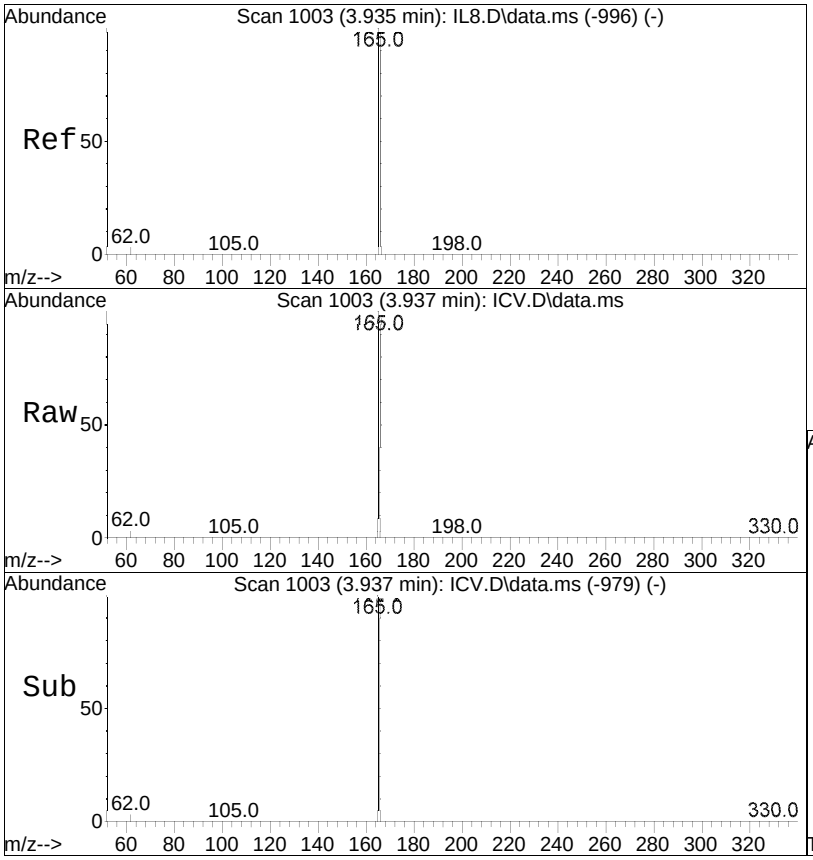


#20
2,4-Dinitrotoluene
Concen: 904.80 ng/ml
RT: 3.746 min Scan# 940
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:165 Resp: 80839

Ion	Ratio	Lower	Upper
165	100		
89	85.4	66.8	100.2
63	71.3	54.9	82.3

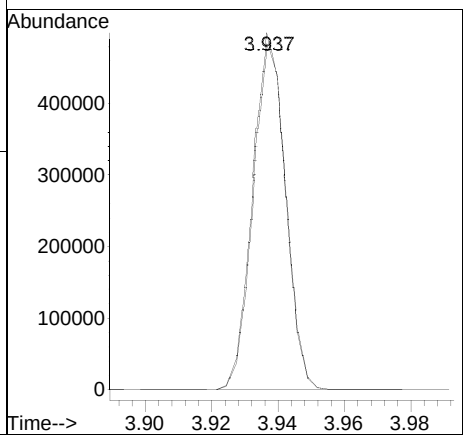


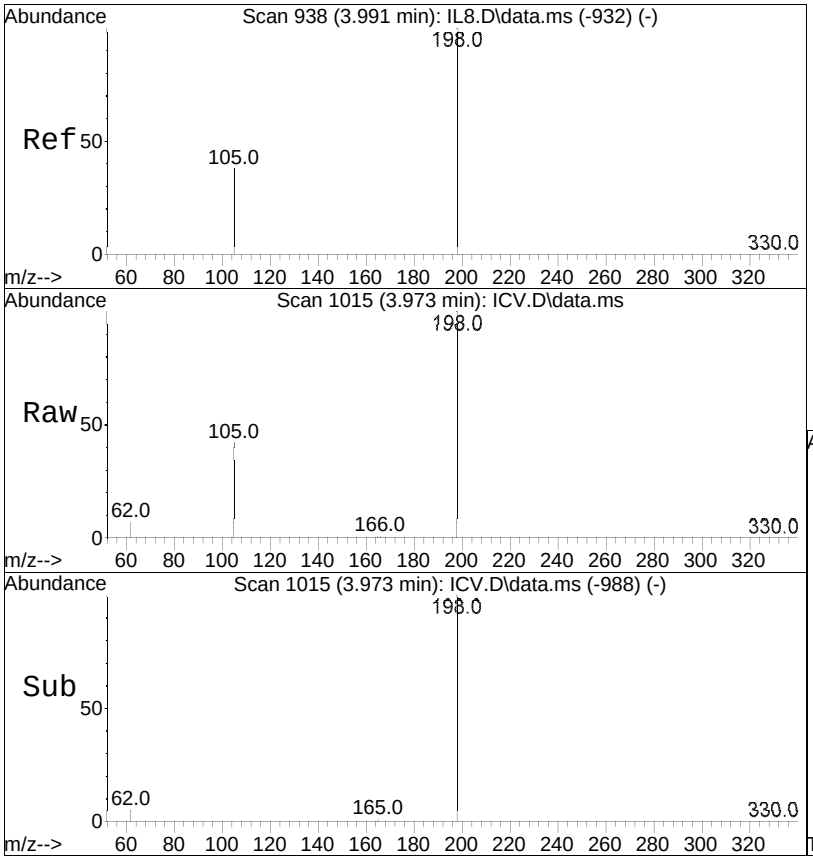


#21
Fluorene
Concen: 1024.22 ng/ml
RT: 3.937 min Scan# 1003
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:166 Resp: 331844

Ion	Ratio	Lower	Upper
166	100		
165	102.1	81.7	122.5

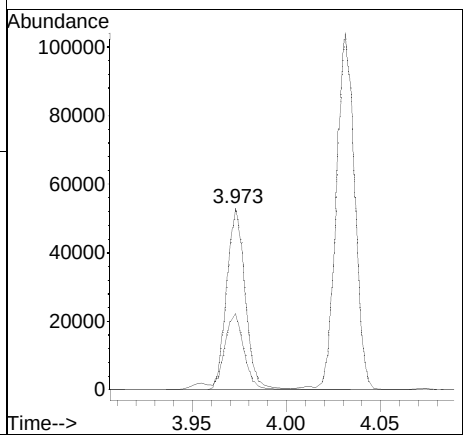


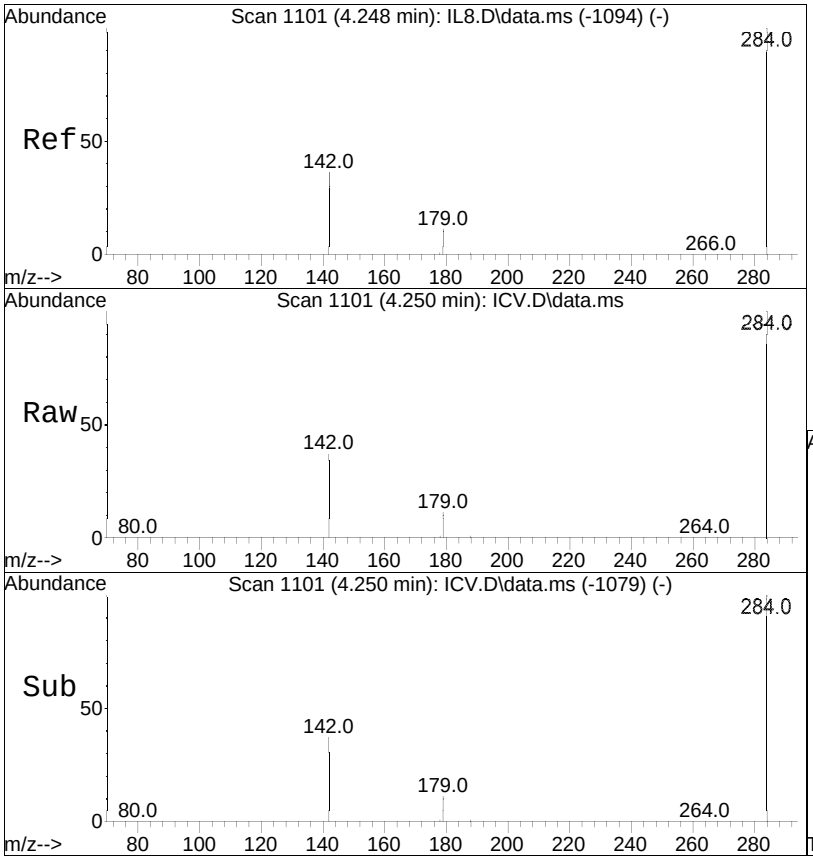


#24
4,6-Dinitro-o-cresol
Concen: 851.85 ng/ml
RT: 3.973 min Scan# 1015
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:198 Resp: 36582

Ion	Ratio	Lower	Upper
198	100		
105	45.5	35.8	53.6

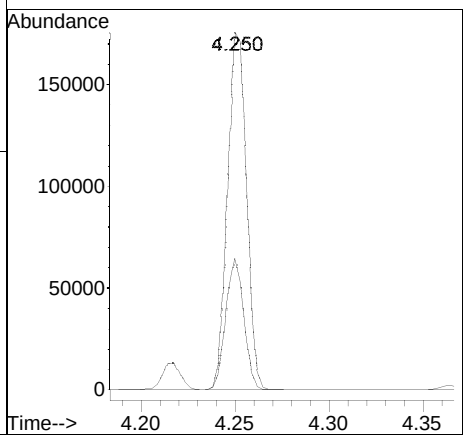


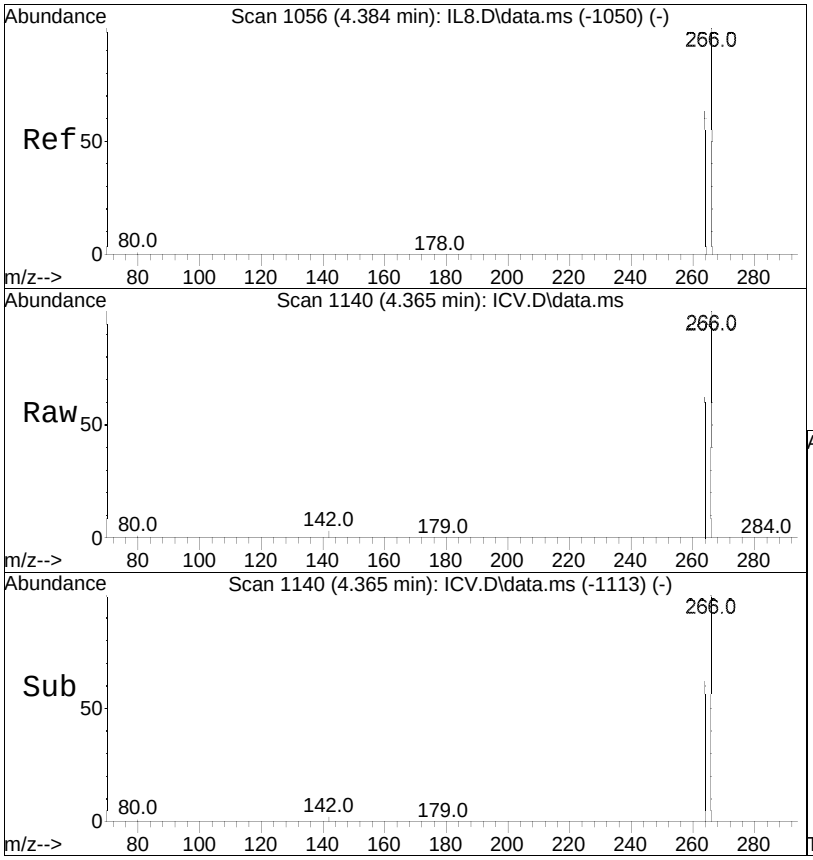


#25
Hexachlorobenzene
Concen: 996.41 ng/ml M6
RT: 4.250 min Scan# 1101
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:284 Resp: 121355

Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.2	42.2

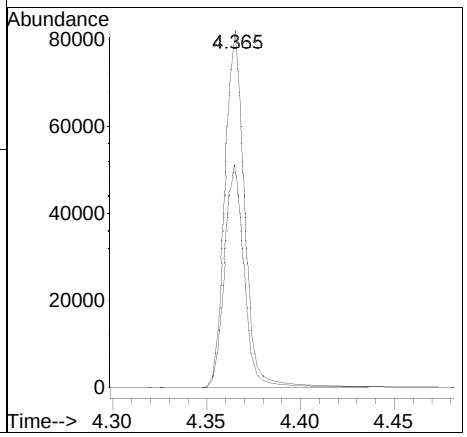


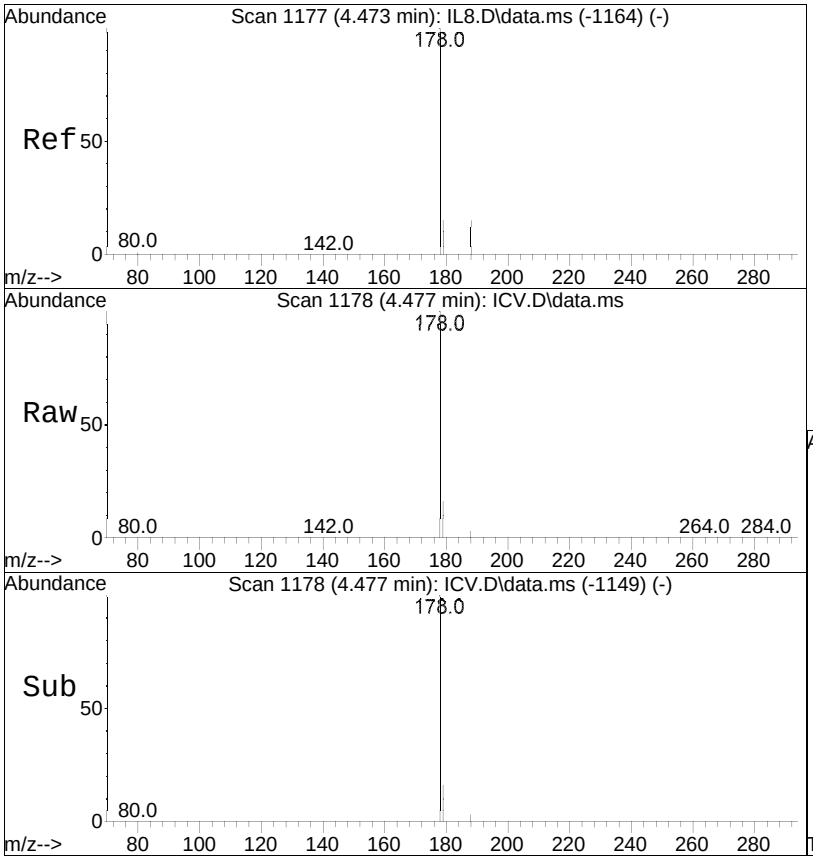


#26
Pentachlorophenol
Concen: 938.04 ng/ml
RT: 4.365 min Scan# 1140
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:266 Resp: 59474

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.6	76.0

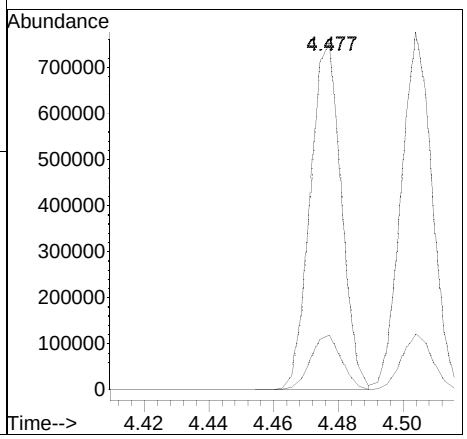


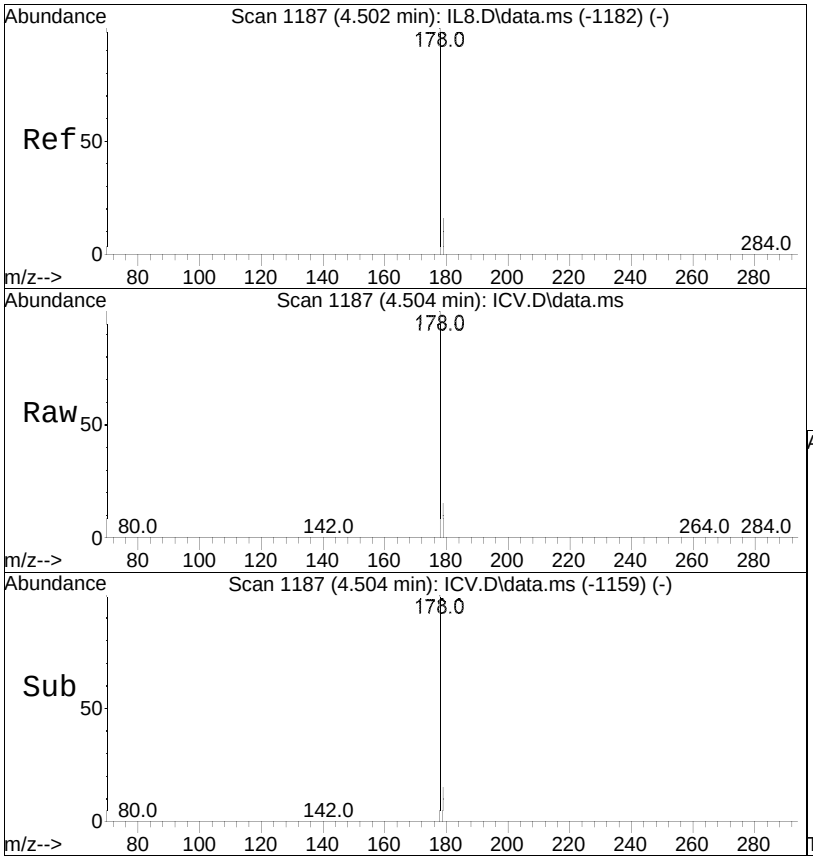


#27
Phenanthrene
Concen: 988.90 ng/ml
RT: 4.477 min Scan# 1178
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:178 Resp: 503306

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

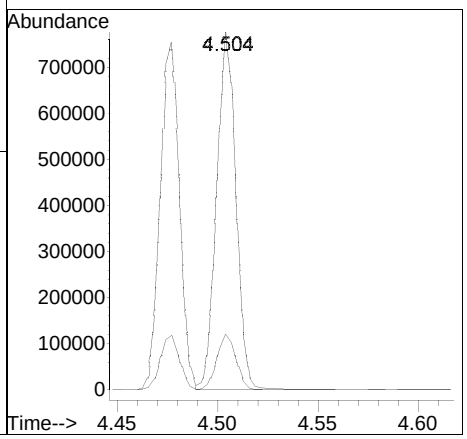


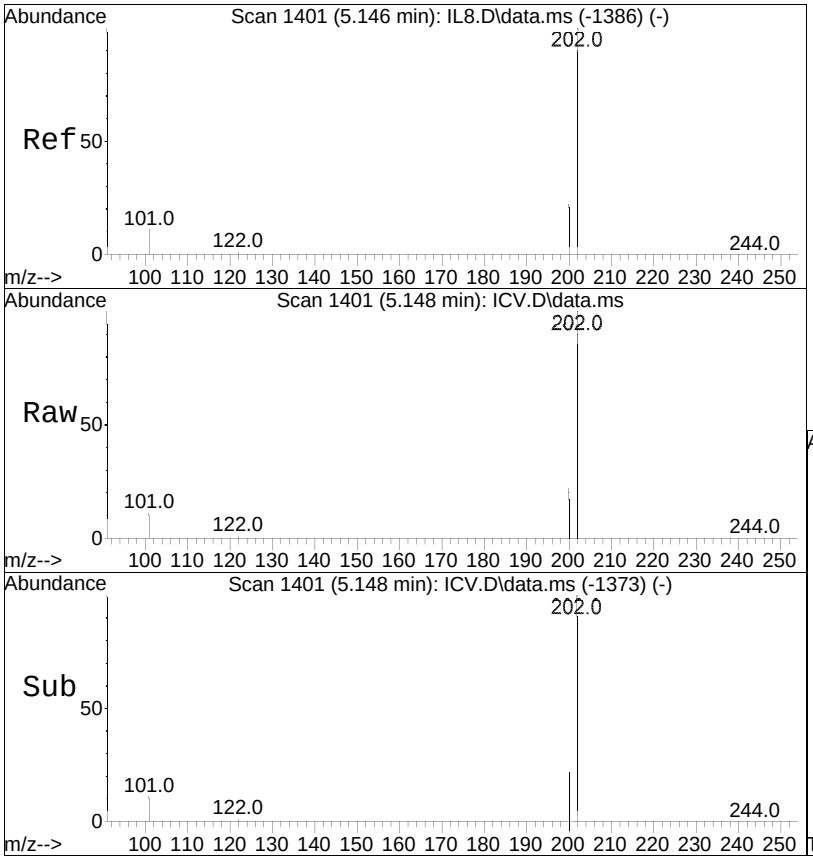


#28
Anthracene
Concen: 1056.61 ng/ml
RT: 4.504 min Scan# 1187
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:178 Resp: 519486

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

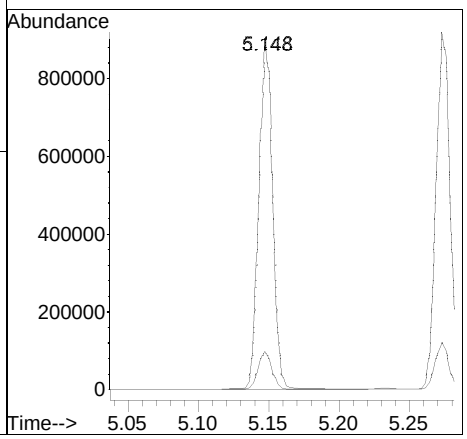


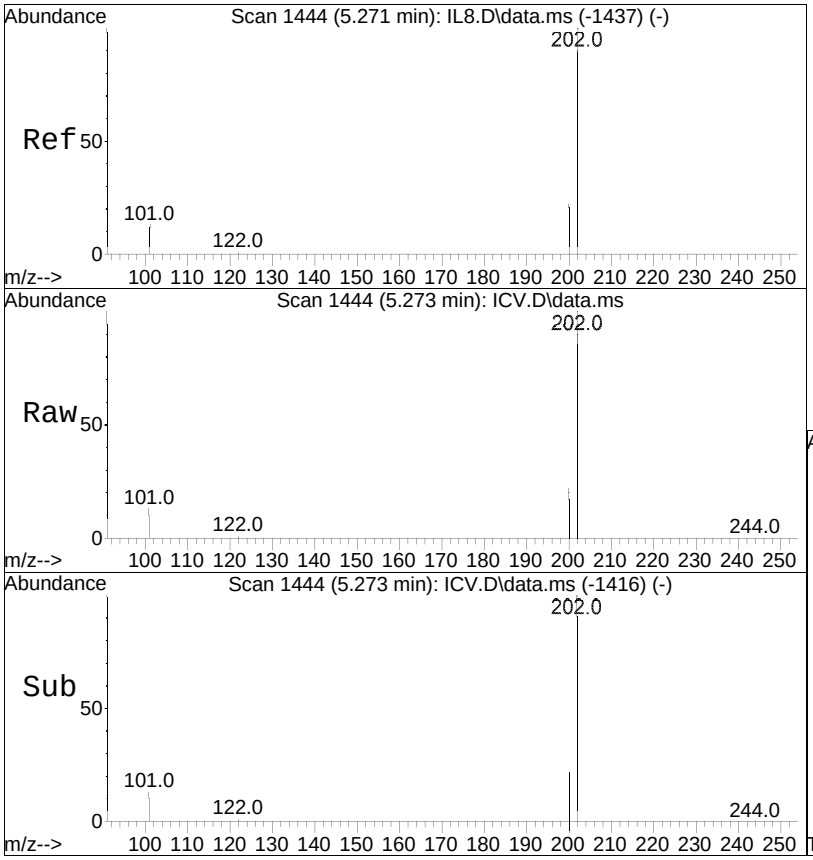


#29
Fluoranthene
Concen: 1043.16 ng/ml
RT: 5.148 min Scan# 1401
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:202 Resp: 615663

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.7	13.1

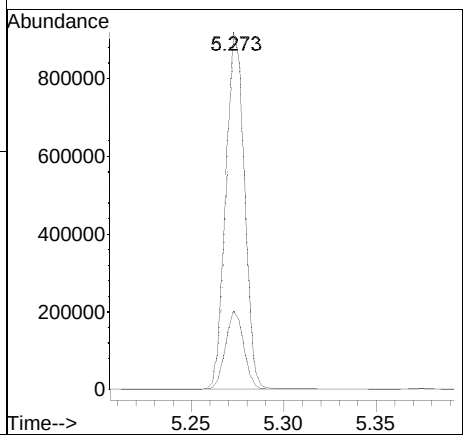


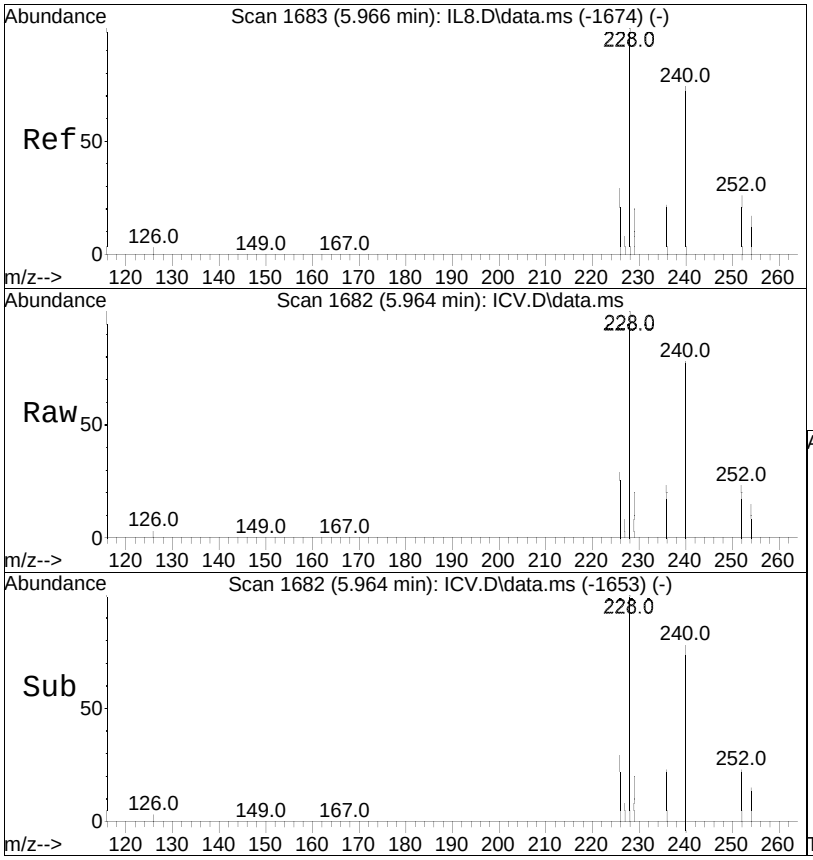


#30
Pyrene
Concen: 1031.07 ng/ml
RT: 5.273 min Scan# 1444
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:202 Resp: 636267

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2

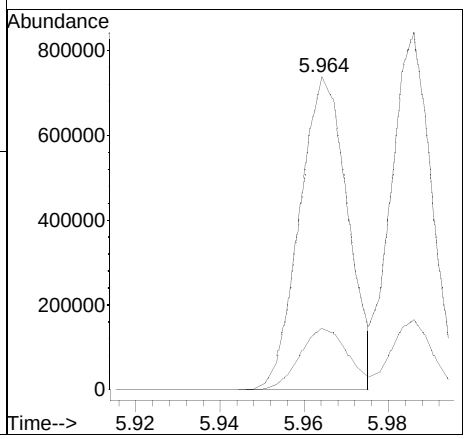


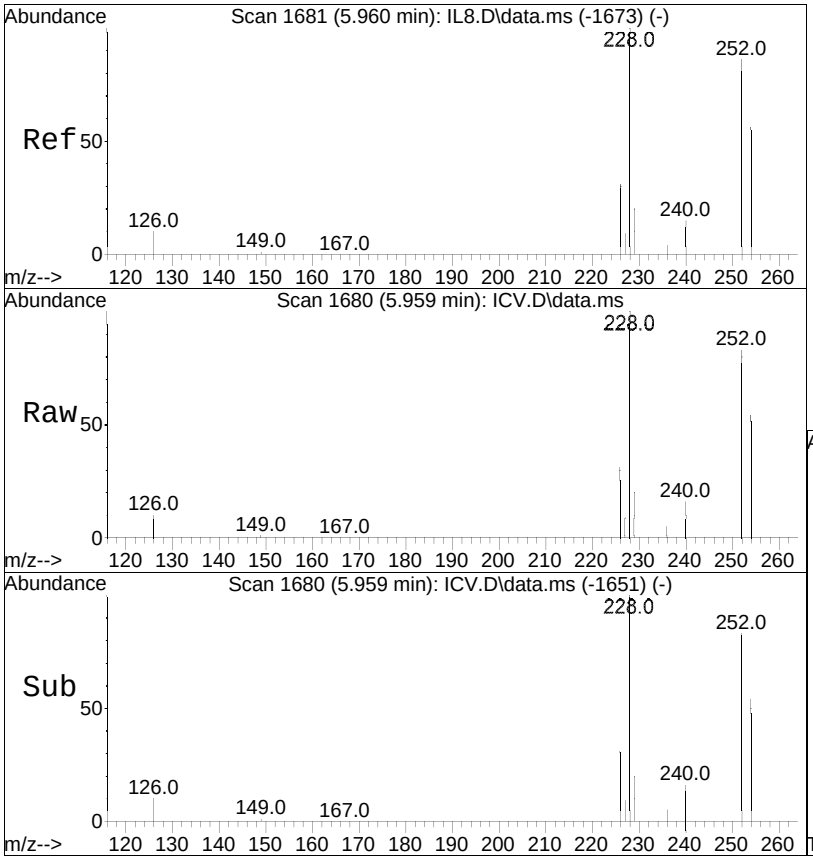


#33
Benzo[a]anthracene
Concen: 1003.74 ng/ml
RT: 5.964 min Scan# 1682
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:228 Resp: 588890

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

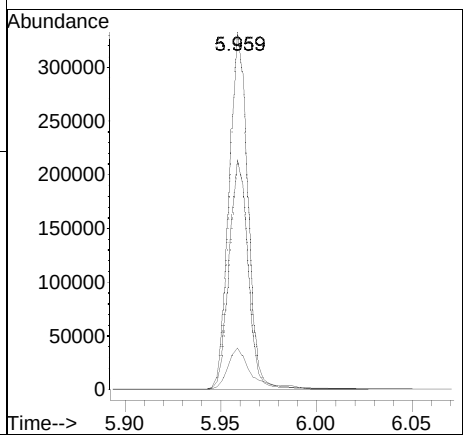


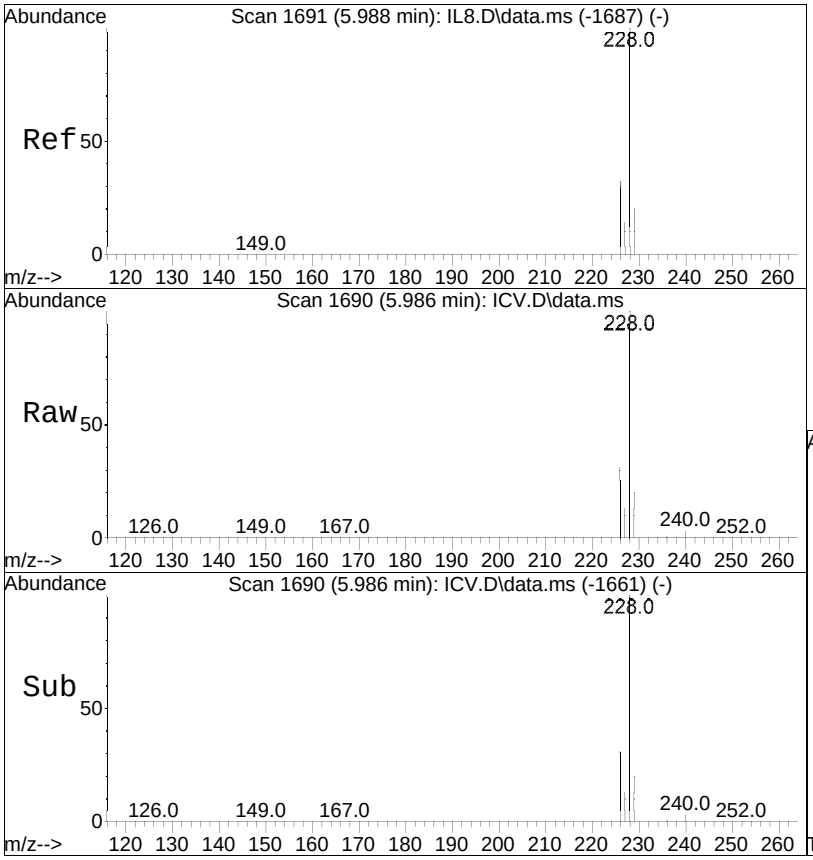


#34
3,3'-Dichlorobenzene
Concen: 928.09 ng/ml
RT: 5.959 min Scan# 1680
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:252 Resp: 225477

Ion	Ratio	Lower	Upper
252	100		
126	13.7	10.6	16.0
254	64.6	51.7	77.5

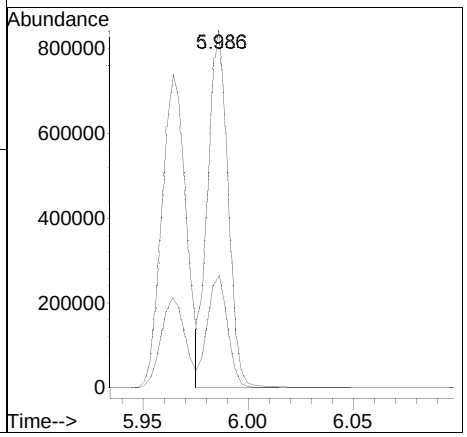


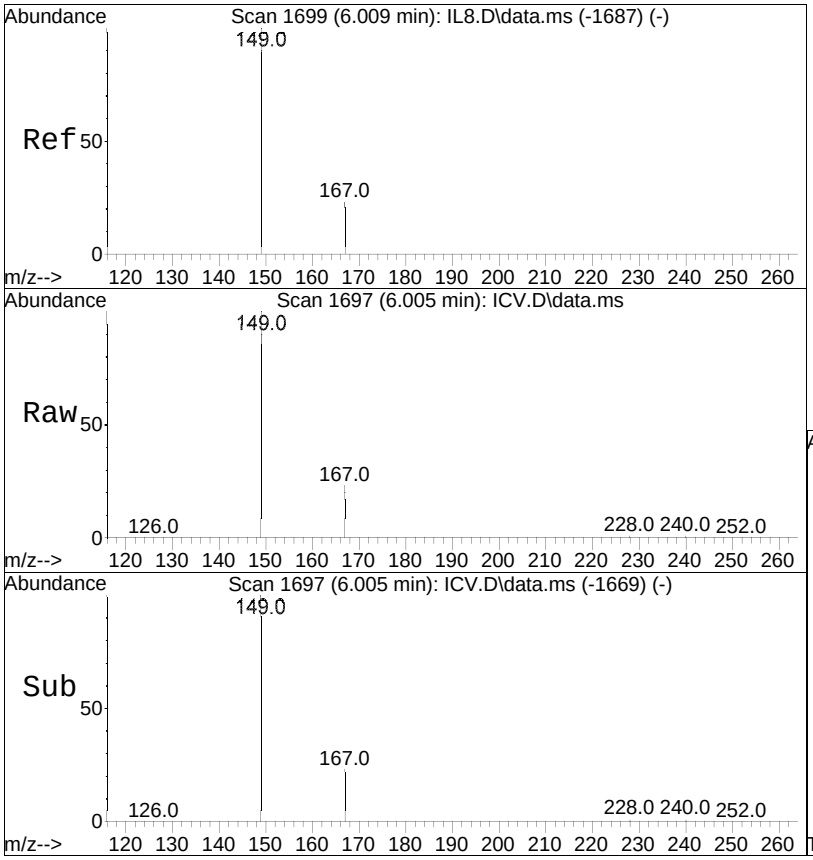


#35
Chrysene
Concen: 1077.44 ng/ml
RT: 5.986 min Scan# 1690
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:228 Resp: 563206

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.1	37.7

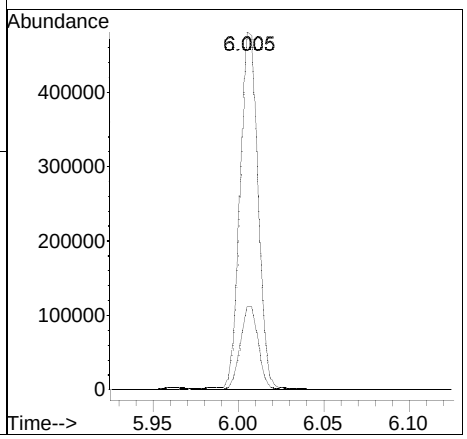


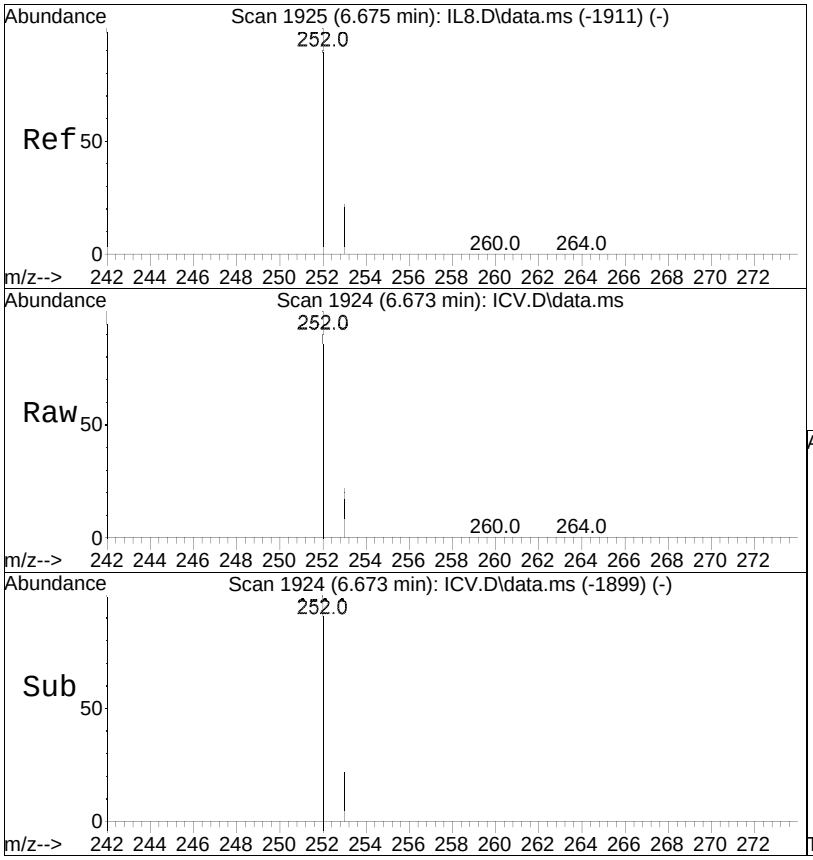


#36
Bis(2-ethylhexyl)phthalate
Concen: 908.33 ng/ml
RT: 6.005 min Scan# 1697
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:149 Resp: 348731

Ion	Ratio	Lower	Upper
149	100		
167	23.2	18.6	27.8

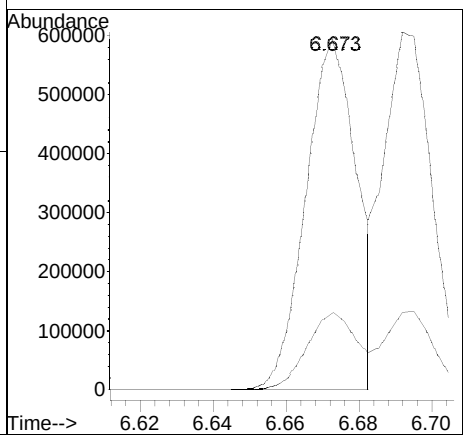


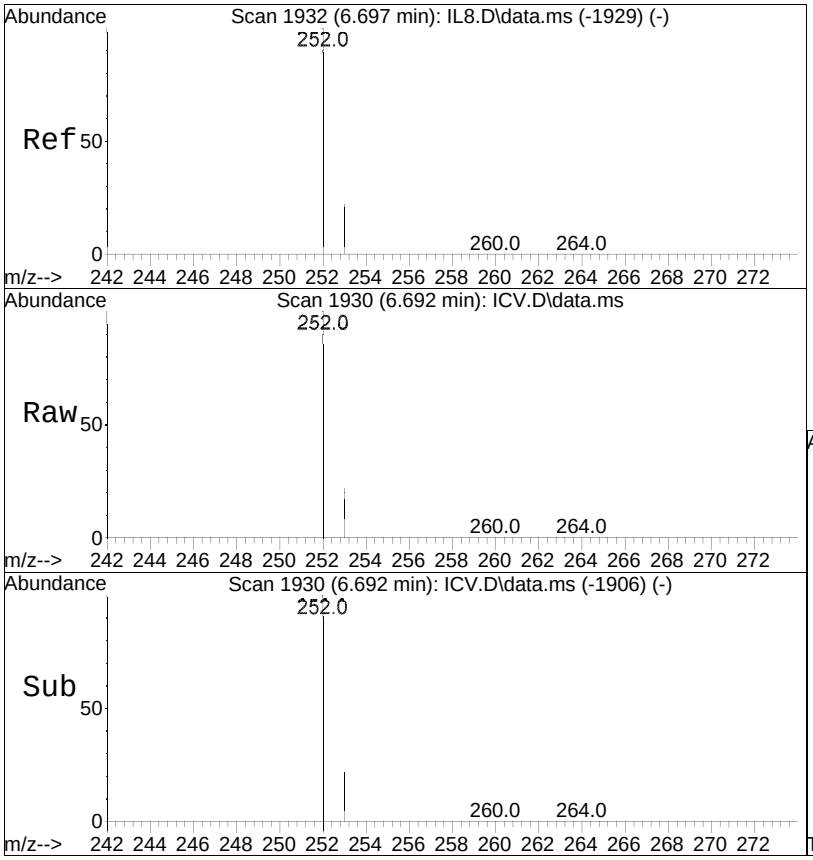


#38
Benzo[b]fluoranthene
Concen: 1066.37 ng/ml
RT: 6.673 min Scan# 1924
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:252 Resp: 579653

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

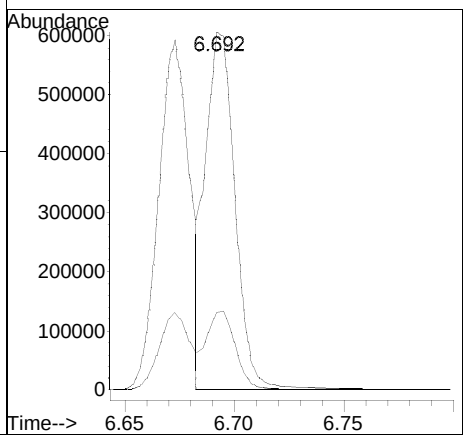


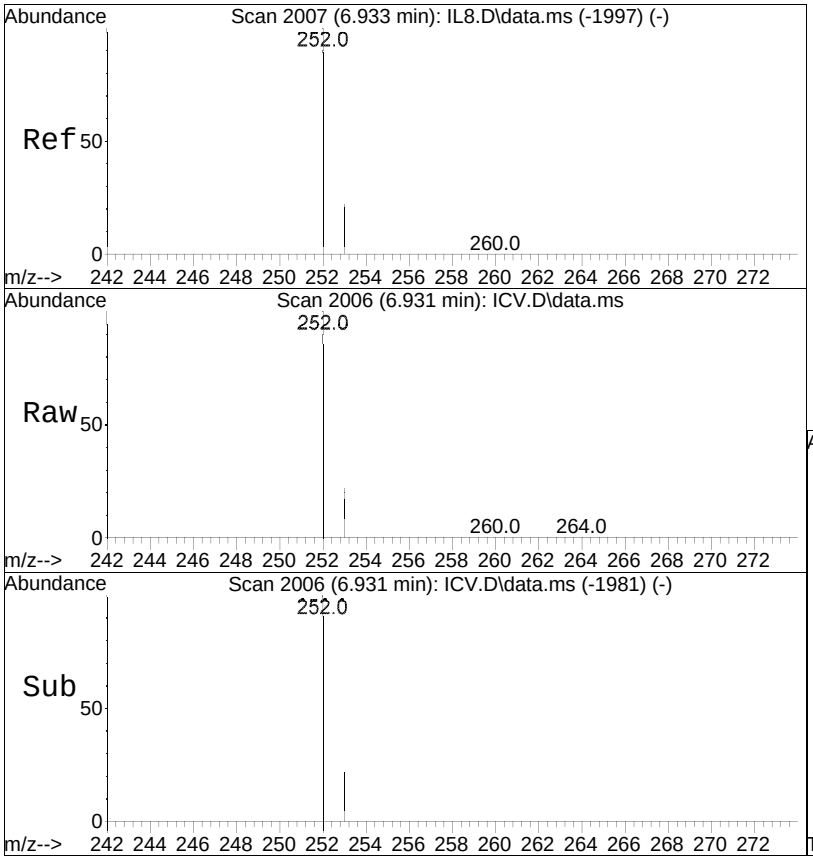


#39
Benzo[k]fluoranthene
Concen: 1106.89 ng/ml
RT: 6.692 min Scan# 1930
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:252 Resp: 561183

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5

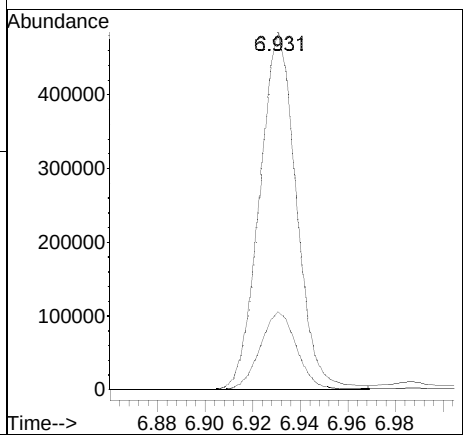


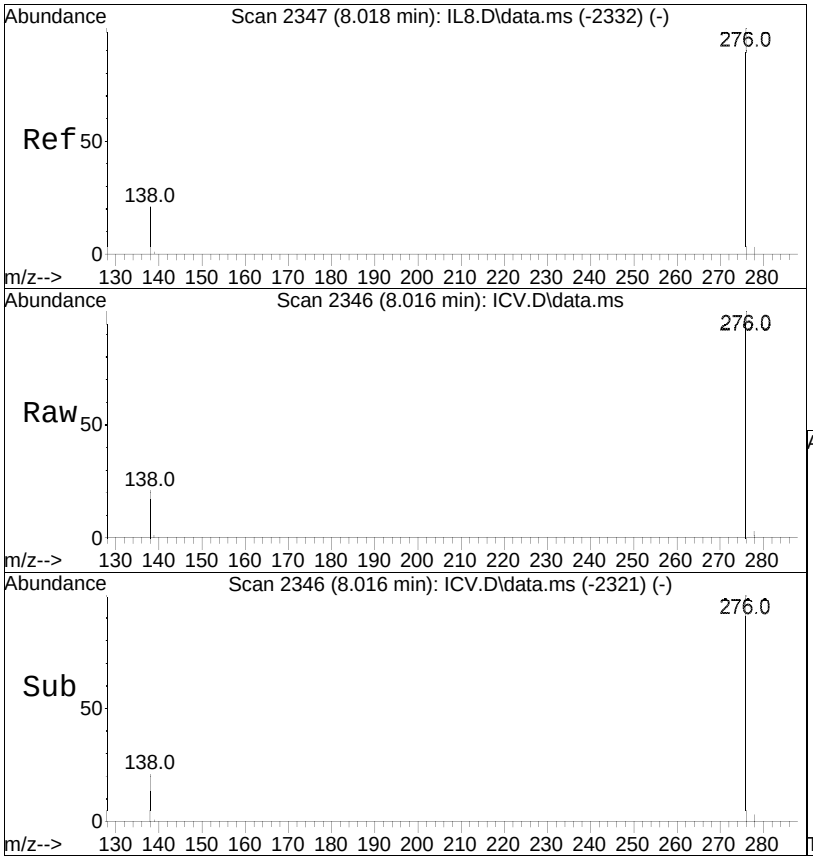


#40
Benzo[a]pyrene
Concen: 1141.21 ng/ml
RT: 6.931 min Scan# 2006
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:252 Resp: 514396

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2

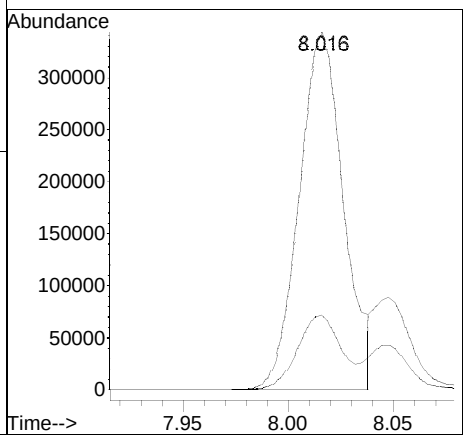


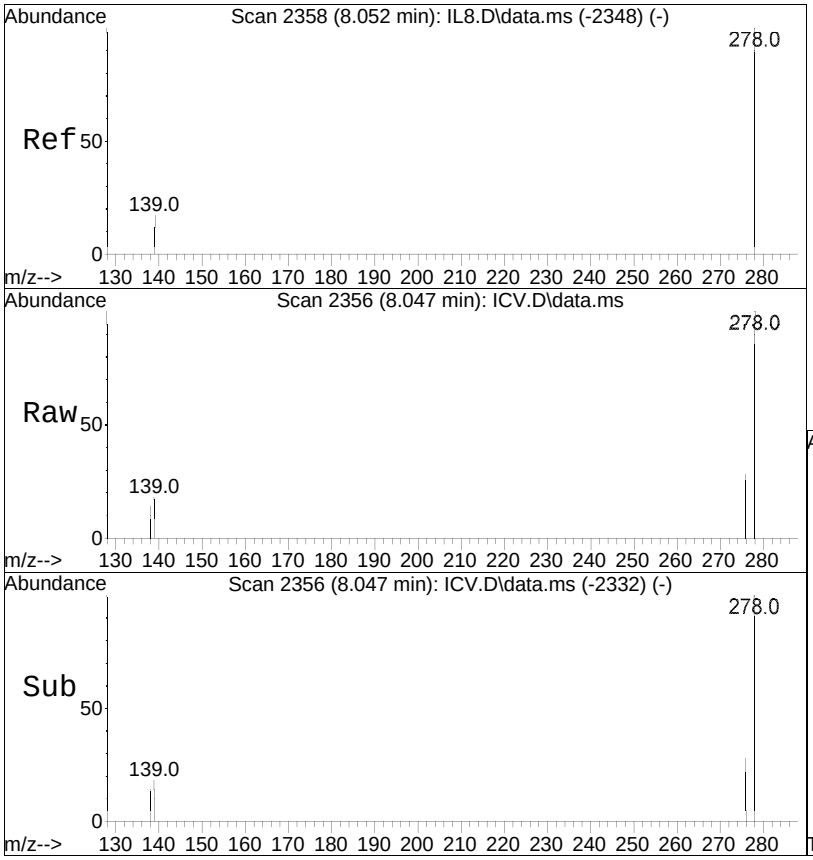


#41
Indeno[1,2,3-cd]pyrene
Concen: 1110.66 ng/ml
RT: 8.016 min Scan# 2346
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:276 Resp: 498687

Ion	Ratio	Lower	Upper
276	100		
138	20.5	16.2	24.4

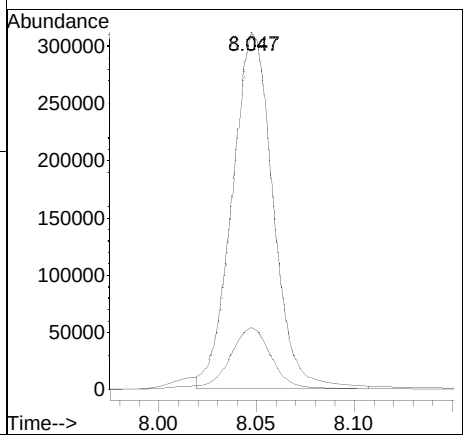


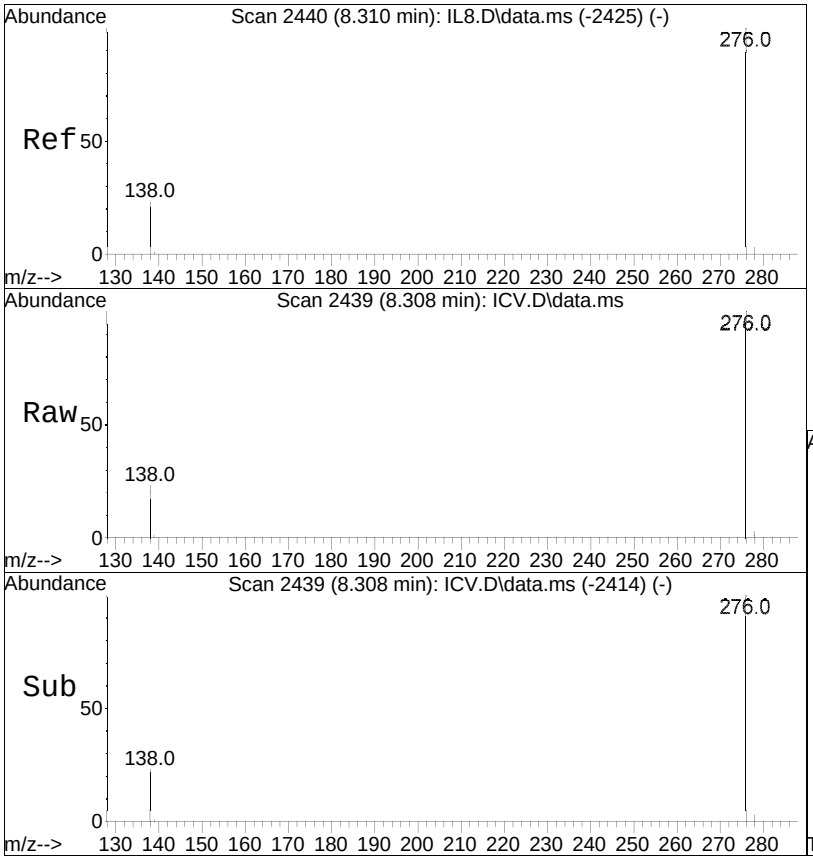


#42
Dibenzo[a,h]anthracene
Concen: 1084.73 ng/ml M6
RT: 8.047 min Scan# 2356
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:278 Resp: 451495

Ion	Ratio	Lower	Upper
278	100		
139	18.2	14.5	21.7

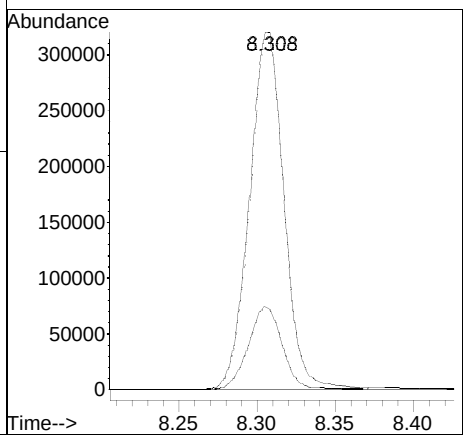




#43
Benzo[g,h,i]perylene
Concen: 1070.00 ng/ml
RT: 8.308 min Scan# 2439
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 23 Feb 2024 05:12 pm

Tgt Ion:276 Resp: 483523

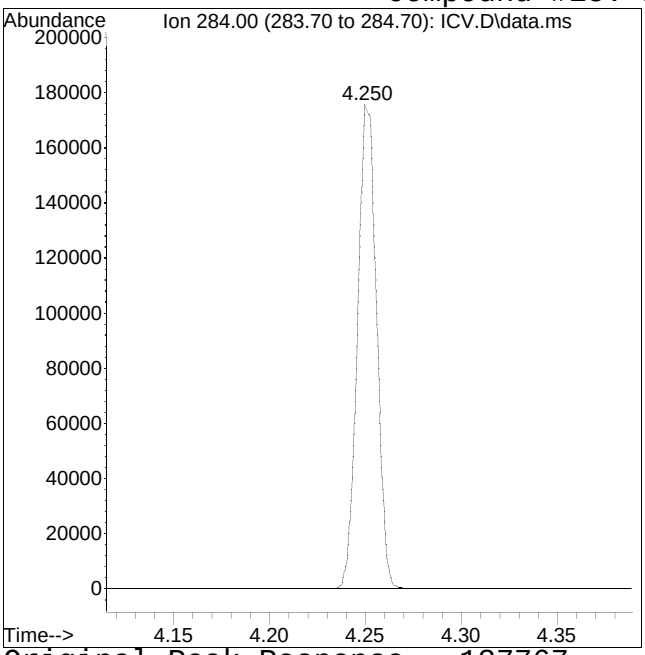
Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.5	27.7



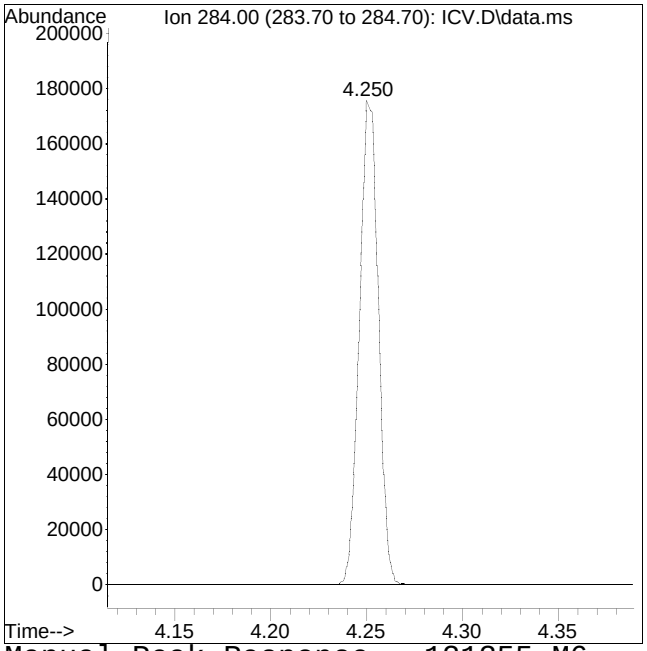
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : ICV.D
Date Inj'd : 2/23/2024 5:12 pm
Sample : CQICV,32,, 1.000 Lot#10475
Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #25: Hexachlorobenzene



Original Peak Response = 137767



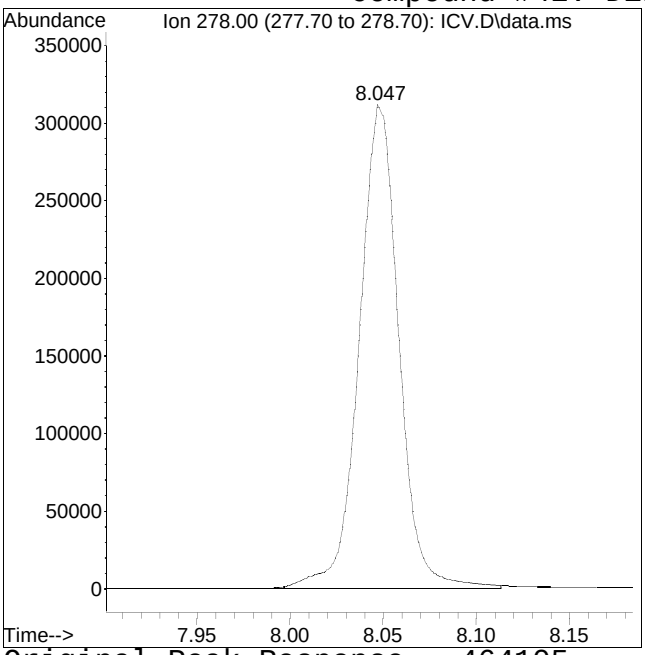
Manual Peak Response = 121355 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

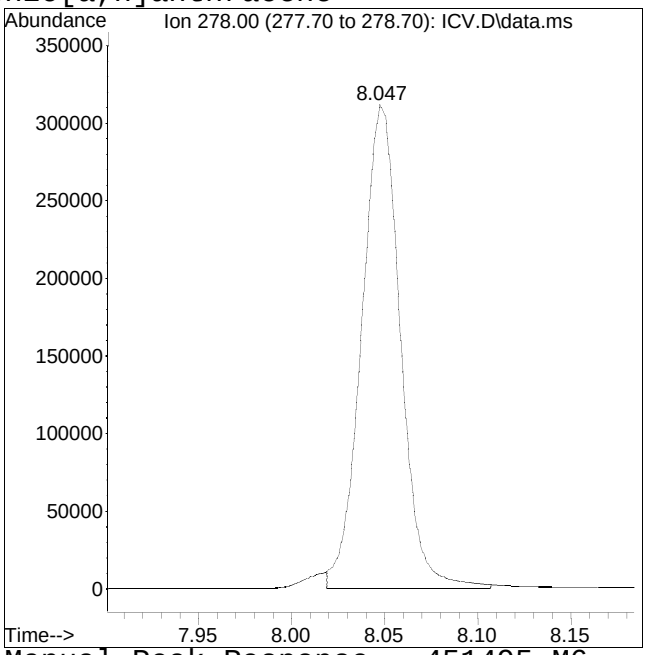
Manual Integration Report

Data Path : I:\8270SIM\SV125\240223RVTQ
Data File : ICV.D
Date Inj'd : 2/23/2024 5:12 pm
Sample : CQICV,32,, 1.000 Lot#10475
Method : SIM-RVT_240223_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 5/20/2024 2:04 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 464105



Manual Peak Response = 451495 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV125

Method Path : I:\8270SIM\SV125\2024\240223RVTical\
Method File : SIM-RVT_240223_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Feb 27 10:46:28 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
16 T	2,6-Dinitrotoluene	Q	ng/ml	1000.0	1031.258	3.1	40.00	45.609	14.0
20 T	2,4-Dinitrotoluene	Q	ng/ml	1000.0	1031.134	3.1	40.00	45.915	14.8
24 T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	1009.785	1.0	40.00	46.766	16.9
26 T	Pentachlorophenol	Q	ng/ml	1000.0	1023.005	2.3	5.00	7.415	48.3
33 T	Benzo[a]anthracene	L	ng/ml	1000.0	1054.945	5.5	1.00	1.105	10.5
34 T	3,3'-Dichlorobenzene	Q	ng/ml	1000.0	1022.013	2.2	40.00	44.622	11.6
36 T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	973.491	-2.7	40.00	50.294	25.7

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
16 T	2,6-Dinitrotoluene	Quadratic	0.999292	0.007704	0.187804	-0.000843509
20 T	2,4-Dinitrotoluene	Quadratic	0.999241	0.018728	0.437714	-0.00234544
24 T	4,6-Dinitro-o-cresol	Quadratic	0.999063	0.013889	0.0974219	-0.000592802
26 T	Pentachlorophenol	Quadratic	0.998479	0.018636	0.140379	-0.000154423
33 T	Benzo[a]anthracene	Linear	0.999189	0.000000	1.58995	0.00336324
34 T	3,3'-Dichlorobenzene	Quadratic	0.999562	0.010492	0.674453	-0.00300316
36 T	Bis(2-ethylhexyl)phthalate	Linear	0.997974	0.000000	1.07859	-0.00666954

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\240521RVTical\
Method File : SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu May 30 15:58:11 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

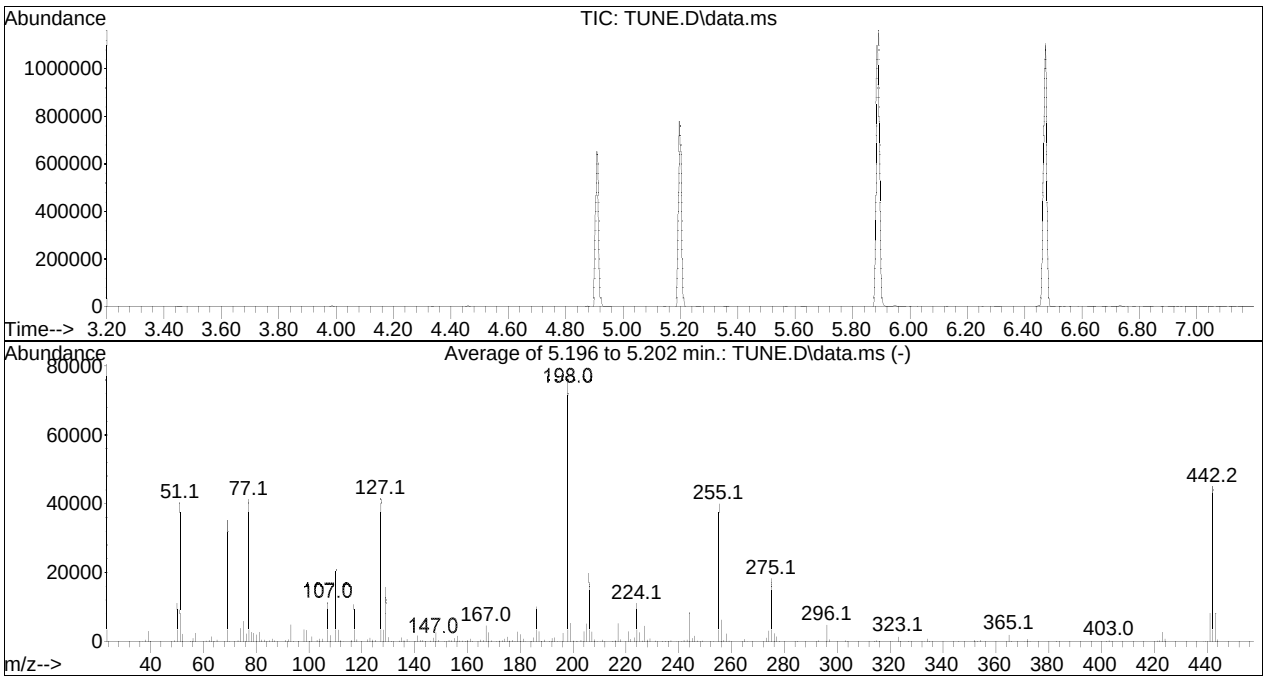
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.134	1.209	1.168	1.143	1.189	1.189	1.218	1.262	1.223	1.153	1.189	3.38
3)	s	Phenol-d6	1.418	1.417	1.351	1.323	1.390	1.404	1.478	1.531	1.502	1.477	1.429	4.67
4)	T	bis(2-Chloroethyl)ether		1.365	1.248	1.232	1.267	1.223	1.289	1.279	1.224	1.240	1.263	3.55
5)	T	n-Nitrosodi-n-propylamine		0.806	0.796	0.784	0.817	0.834	0.916	0.942	0.948	0.953	0.866	8.28
6)	t	Hexachloroethane		0.598	0.567	0.561	0.569	0.560	0.573	0.592	0.575	0.557	0.572	2.50
7)	s	Nitrobenzene-d5		1.248	1.157	1.143	1.218	1.233	1.358	1.370	1.372	1.361	1.273	7.33
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.297	1.229	1.111	1.098	1.119	1.090	1.118	1.122	1.085	1.038	1.131	6.67
10)	t	Hexachlorobutadiene		0.235	0.207	0.218	0.223	0.217	0.216	0.221	0.211	0.200	0.216	4.60
11)	t	2-Methylnaphthalene	0.705	0.723	0.672	0.673	0.704	0.696	0.734	0.736	0.715	0.695	0.705	3.16
12)	t	1-Methylnaphthalene	0.691	0.708	0.638	0.632	0.657	0.653	0.683	0.680	0.658	0.641	0.664	3.80
13)	s	2-Fluorobiphenyl	0.890	0.880	0.820	0.817	0.856	0.850	0.888	0.865	0.830	0.808	0.851	3.58
14)	t	2-Chloronaphthalene		0.745	0.690	0.692	0.723	0.717	0.751	0.743	0.719	0.708	0.721	3.07
15)	t	2,6-Dinitrotoluene					0.123	0.131	0.169	0.174	0.182	0.185	*L	0.9994
16)	t	Acenaphthylene	1.026	1.001	0.940	0.937	1.012	1.038	1.185	1.176	1.155	1.142	1.061	8.97
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.429	1.406	1.317	1.379	1.391	1.364	1.391	1.399	1.359	1.290	1.372	3.06
19)	t	2,4-Dinitrotoluene					0.279	0.312	0.426	0.442	0.463	0.450	*L	0.9995
20)	t	Fluorene	1.603	1.526	1.367	1.348	1.435	1.457	1.566	1.535	1.516	1.442	1.479	5.67
21)	s	2,4,6-Tribromophenol			0.148	0.159	0.181	0.207	0.267	0.272	0.282	0.270	*L	0.9988
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.051	0.062	0.101	0.118	0.127	0.125	*Q	0.9985
24)	t	Hexachlorobenzene	0.320	0.312	0.272	0.277	0.287	0.286	0.289	0.297	0.278	0.263	0.288	6.13
25)	t	Pentachlorophenol					0.038	0.063	0.132	0.160	0.174	0.174	*L	0.9973
26)	t	Phenanthrene	1.027	1.087	1.121	1.111	1.151	1.141	1.190	1.199	1.142	1.077	1.125	4.62
27)	t	Anthracene	1.248	1.079	1.013	1.011	1.062	1.078	1.165	1.179	1.170	1.108	1.111	6.96
28)	t	Fluoranthene	1.394	1.208	1.095	1.074	1.143	1.144	1.312	1.272	1.305	1.251	1.220	8.58
29)	t	Pyrene	1.428	1.281	1.121	1.086	1.168	1.192	1.408	1.326	1.363	1.276	1.265	9.44
30)	s	4-Terphenyl-d14	1.007	0.826	0.770	0.696	0.753	0.761	0.895	0.805	0.819	0.805	0.814	10.57
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene		7.698	3.677	2.479	1.646	1.474	1.517	1.598	1.573	1.499	*L	0.9991
33)	t	3,3'-Dichlorob...					0.404	0.430	0.535	0.590	0.631	0.608	0.533	17.91
34)	t	Chrysene	1.412	1.560	1.390	1.378	1.466	1.451	1.519	1.504	1.455	1.363	1.450	4.48
35)	T	bis(2-Ethylhexyl)phthalate					0.574	0.592	0.782	0.922	1.021	1.021	*L	0.9970
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.520	1.324	1.148	1.134	1.188	1.239	1.353	1.491	1.425	1.406	1.323	10.60
38)	t	Benzo[k]fluora...	1.284	1.296	1.068	1.093	1.166	1.185	1.392	1.401	1.419	1.287	1.259	10.06
39)	t	Benzo[a]pyrene	1.167	1.047	0.899	0.885	0.968	0.992	1.182	1.255	1.278	1.231	1.090	13.72
40)	t	Indeno[1,2,3-c...	1.029	1.014	0.851	0.853	0.909	0.903	1.074	1.114	1.275	1.246	1.027	14.86
41)	t	Dibenzo[a,h]anthracene	0.941	0.890	0.785	0.803	0.894	0.911	1.094	1.119	1.217	1.179	0.983	15.87
42)	t	Benzo[g,h,i]pe...	1.059	1.063	0.876	0.890	0.958	0.958	1.115	1.117	1.222	1.188	1.045	11.50

(#) = Out of Range

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed May 29 13:17:11 2024



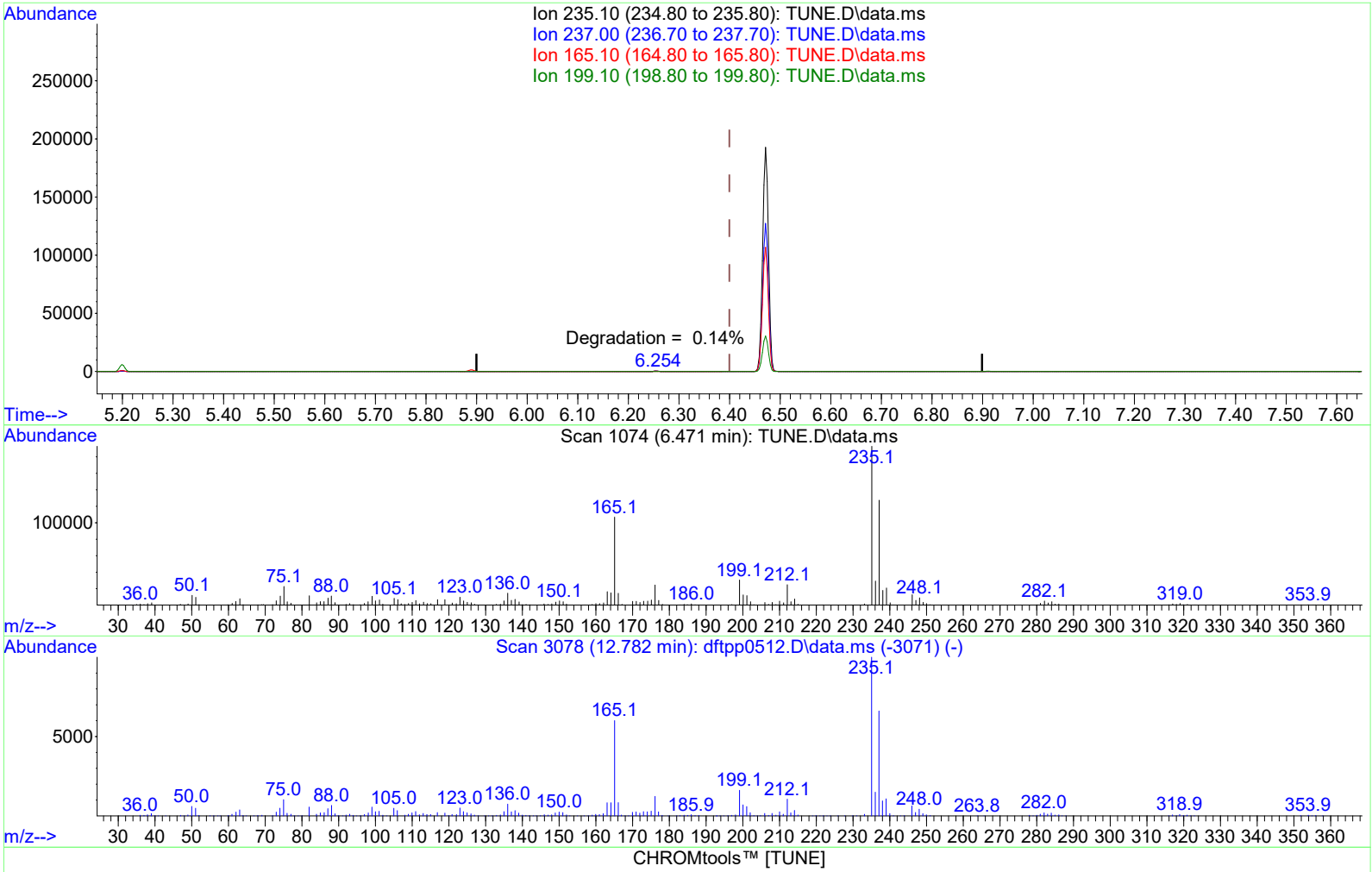
Spectrum Information: Average of 5.196 to 5.202 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.6	40336	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	34992	PASS
70	69	0.00	2	0.5	181	PASS
127	198	10	80	54.1	41488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	76683	PASS
199	198	5	9	6.8	5226	PASS
275	198	10	60	23.7	18193	PASS
365	198	1	100	2.6	2001	PASS
441	442	0.01	24	17.9	8016	PASS
442	198	50	100	58.5	44856	PASS
443	442	15	24	18.5	8298	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(6) ddt (T)

6.471min (+ 0.071) 25.30

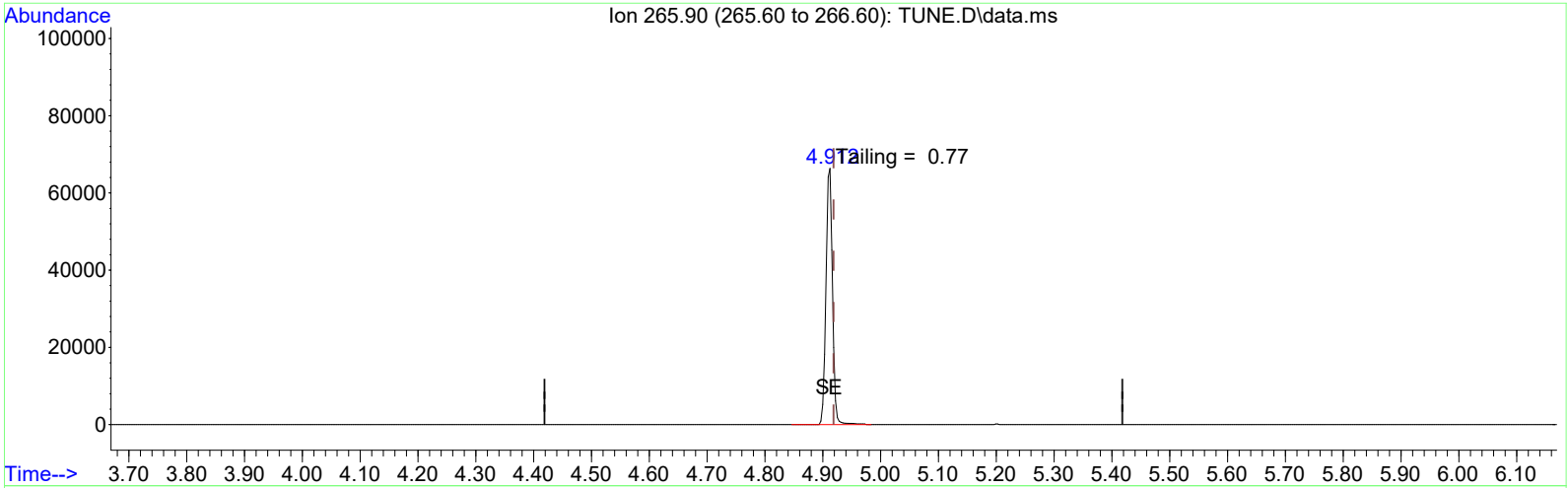
response 154194

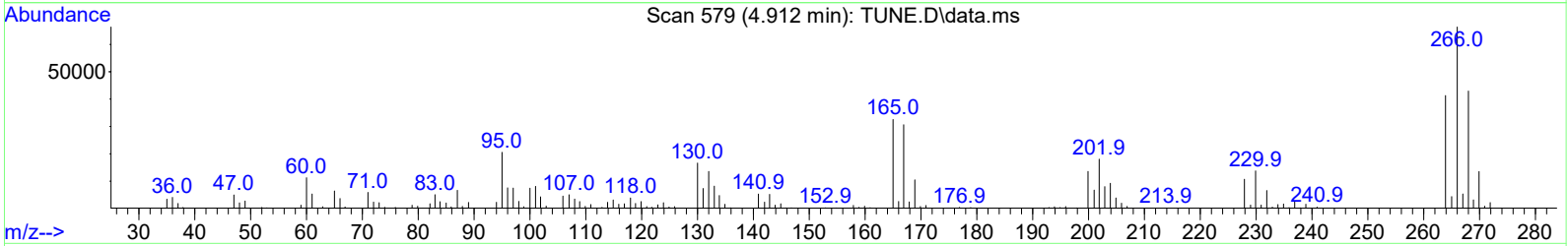
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.41
165.10	53.30	55.59
199.10	17.10	16.03

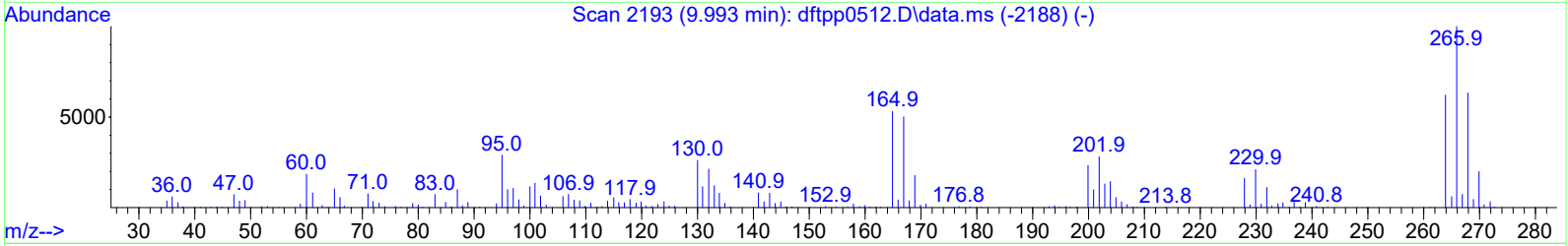
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.912min (-0.007) 24.70

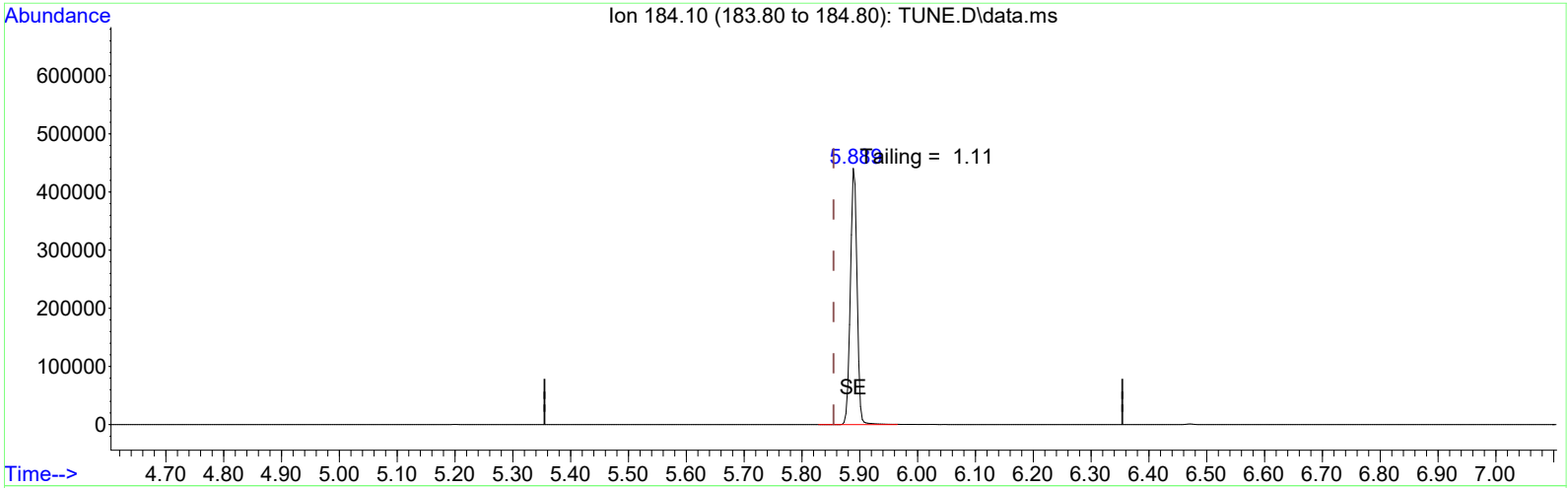
response 51883

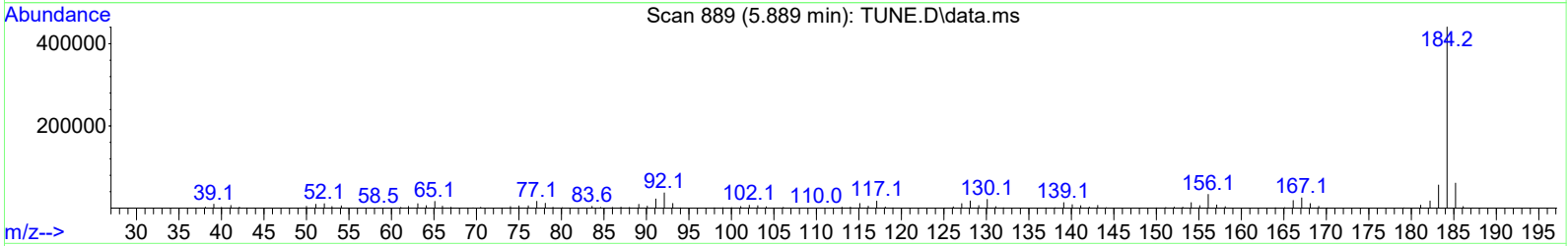
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

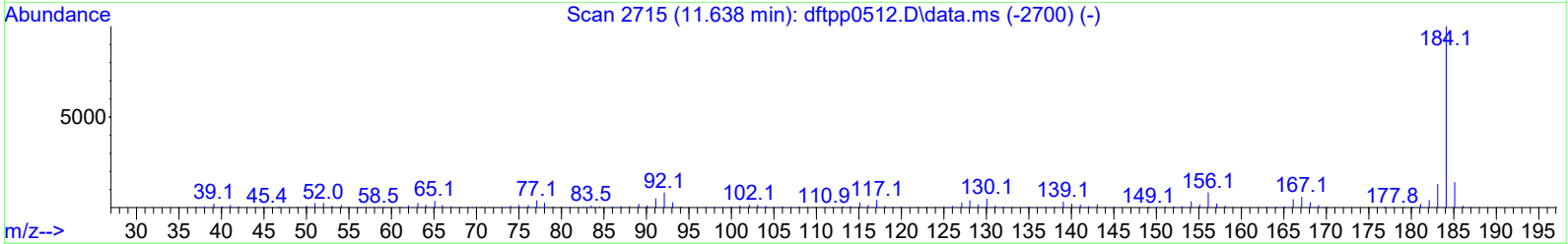
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE]

(3) benzidine (T)

5.889min (+ 0.034) 34.89

response 355226

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	131348	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 72.66%			
8) Naphthalene-d8	2.938	136	483451	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 73.53%			
17) Acenaphthene-d10	3.924	164	263243	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 74.53%			
22) Phenanthrene-d10	4.770	188	536485	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 78.23%			
31) Chrysene-d12	6.362	240	458051	4000.000	ng/ml	0.01
Standard Area 1 = 509536			Recovery = 89.90%			
36) Perylene-d12	7.611	264	500111	4000.000	ng/ml	0.01
Standard Area 1 = 492251			Recovery = 101.60%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.692	112	100365	2570.948	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 128.55%#			
3) Phenol-d6	2.081	99	123274	2627.004	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 131.35%#			
7) Nitrobenzene-d5	2.552	82	112621	2693.685	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 269.37%#			
13) 2-Fluorobiphenyl	3.539	172	250740	2439.184	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 243.92%#			
21) 2,4,6-Tribromophenol	4.372	330	46321	2584.558	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 129.23%#			
30) 4-Terphenyl-d14	5.697	244	274699	2516.549	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 125.83%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.135	93	100485	2422.844	ng/ml	99
5) n-nitrosodi-n-propylamine	2.474	70	77788	2735.159	ng/ml	100
6) Hexachloroethane	2.531	117	47194	2511.387	ng/ml	100
9) Naphthalene	2.951	128	327950	2399.868	ng/ml	99
10) Hexachlorobutadiene	3.021	225	63647	2434.780	ng/ml	100
11) 2-Methylnaphthalene	3.333	142	216032	2533.850	ng/ml	100
12) 1-Methylnaphthalene	3.389	142	198760	2476.866	ng/ml	100
14) 2-Chloronaphthalene	3.605	162	217401	2494.851	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	55060	2497.503	ng/ml	97
16) Acenaphthylene	3.841	152	348861	2720.278	ng/ml	100
18) Acenaphthene	3.941	153	223569	2475.249	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.030	165	76151	2563.397	ng/ml	98
20) Fluorene	4.233	166	249390	2561.513	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.262	198	42508	2592.277	ng/ml	99
24) Hexachlorobenzene	4.554	284	93190	2410.801	ng/ml	98
25) Pentachlorophenol	4.663	266	58438	2551.564	ng/ml	100
26) Phenanthrene	4.781	178	382990	2538.938	ng/ml	100
27) Anthracene	4.811	178	392429	2632.982	ng/ml	100
28) Fluoranthene	5.468	202	437700	2675.442	ng/ml	99
29) Pyrene	5.605	202	457115	2694.580	ng/ml	100
32) Benzo[a]anthracene	6.352	228	450446	2574.049	ng/ml	100
33) 3,3'-Dichlorobenzene	6.338	252	180505	2957.215	ng/ml	99
34) Chrysene	6.379	228	416656	2509.470	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.381	149	292212	2555.701	ng/ml	100
37) Benzo[b]fluoranthene	7.226	252	445404	2693.443	ng/ml	100
38) Benzo[k]fluoranthene	7.252	252	443503	2817.107	ng/ml	100
39) Benzo[a]pyrene	7.548	252	399377	2929.781	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.877	276	398403	3103.299	ng/ml	99
41) Dibenzo[a,h]anthracene	8.914	278	380443M6	3094.720	ng/ml	
42) Benzo[g,h,i]perylene	9.230	276	382009	2924.786	ng/ml	99

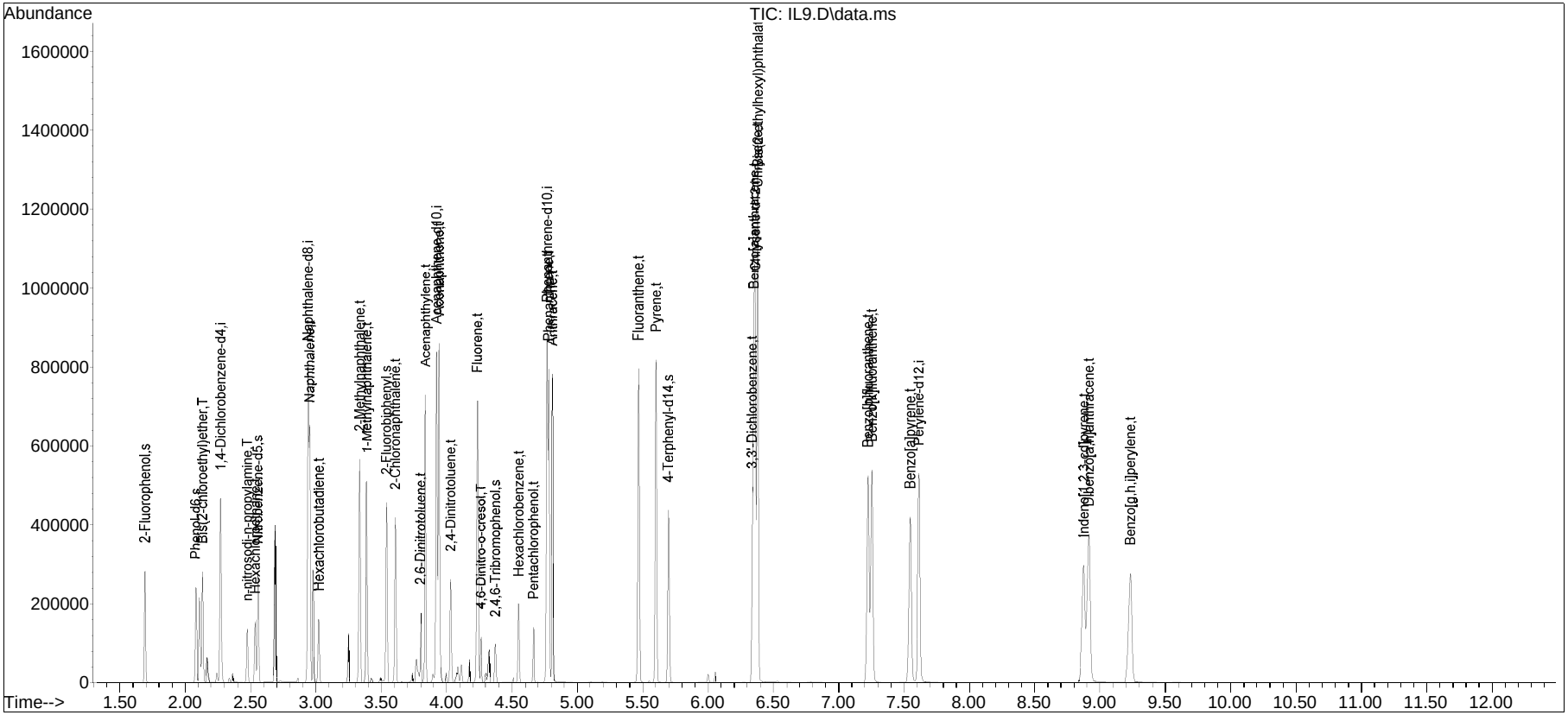
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

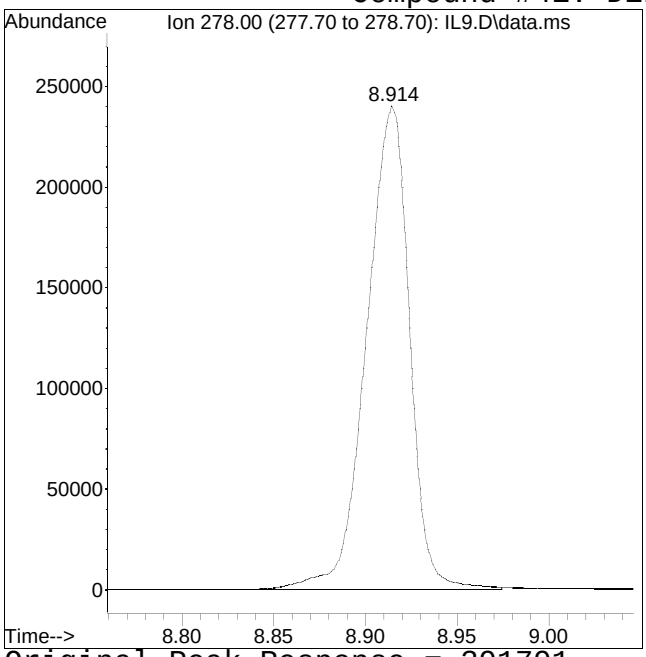
Sub List : Default - All compounds listedical\IL8.D•



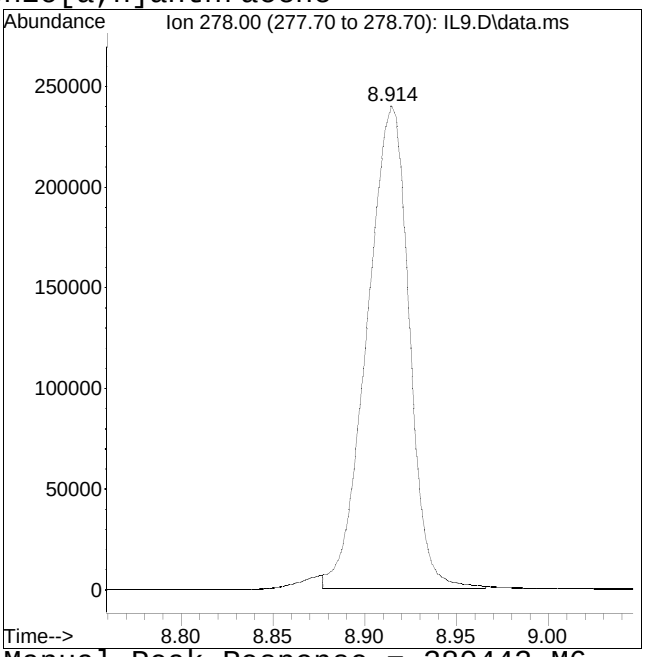
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL9.D Operator : SV120:dv
Date Inj'd : 5/21/2024 10:37 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 391791



Manual Peak Response = 380443 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.276	152	180763	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 100.00%			
8) Naphthalene-d8	2.941	136	657458	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 100.00%			
17) Acenaphthene-d10	3.924	164	353204	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 100.00%			
22) Phenanthrene-d10	4.769	188	685777	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 100.00%			
31) Chrysene-d12	6.350	240	509536	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 100.00%			
36) Perylene-d12	7.600	264	492251	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.707	112	57043	1061.762	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.09%			
3) Phenol-d6	2.088	99	69194	1071.449	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.57%			
7) Nitrobenzene-d5	2.555	82	61911	1075.992	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 107.60%			
13) 2-Fluorobiphenyl	3.542	172	142115	1016.589	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.66%			
21) 2,4,6-Tribromophenol	4.372	330	24059	1003.133	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.16%			
30) 4-Terphenyl-d14	5.694	244	137979	988.863	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.44%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.138	93	57786	1012.420	ng/ml	100
5) n-nitrosodi-n-propylamine	2.474	70	42557	1087.314	ng/ml	100
6) Hexachloroethane	2.534	117	26771	1035.155	ng/ml	100
9) Naphthalene	2.954	128	184426	992.399	ng/ml	100
10) Hexachlorobutadiene	3.024	225	36350	1022.517	ng/ml	100
11) 2-Methylnaphthalene	3.336	142	120966	1043.303	ng/ml	100
12) 1-Methylnaphthalene	3.389	142	111756	1024.068	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	122149	1030.760	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	28608	966.239	ng/ml	100
16) Acenaphthylene	3.844	152	193235	1107.978	ng/ml	100
18) Acenaphthene	3.941	153	123501	1019.082	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	39070	992.757	ng/ml	100
20) Fluorene	4.233	166	135577	1037.851	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	20242	1003.249	ng/ml	100
24) Hexachlorobenzene	4.553	284	50960	1031.327	ng/ml	100
25) Pentachlorophenol	4.665	266	27457	966.229	ng/ml	100
26) Phenanthrene	4.783	178	205501	1065.745	ng/ml	100
27) Anthracene	4.810	178	202184	1061.227	ng/ml	100
28) Fluoranthene	5.465	202	218004	1042.457	ng/ml	100
29) Pyrene	5.598	202	227355	1048.443	ng/ml	100
32) Benzo[a]anthracene	6.340	228	203616	1041.595	ng/ml	100
33) 3,3'-Dichlorobenzene	6.326	252	75155	1106.854	ng/ml	100
34) Chrysene	6.367	228	191595	1037.355	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.367	149	117474	942.425	ng/ml	100
37) Benzo[b]fluoranthene	7.209	252	183529	1127.556	ng/ml	100
38) Benzo[k]fluoranthene	7.235	252	172396	1112.535	ng/ml	100
39) Benzo[a]pyrene	7.531	252	154422	1150.909	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.854	276	137056	1084.623	ng/ml	100
41) Dibenzo[a,h]anthracene	8.892	278	137699M6	1138.000	ng/ml	
42) Benzo[g,h,i]perylene	9.210	276	137422	1068.948	ng/ml	100

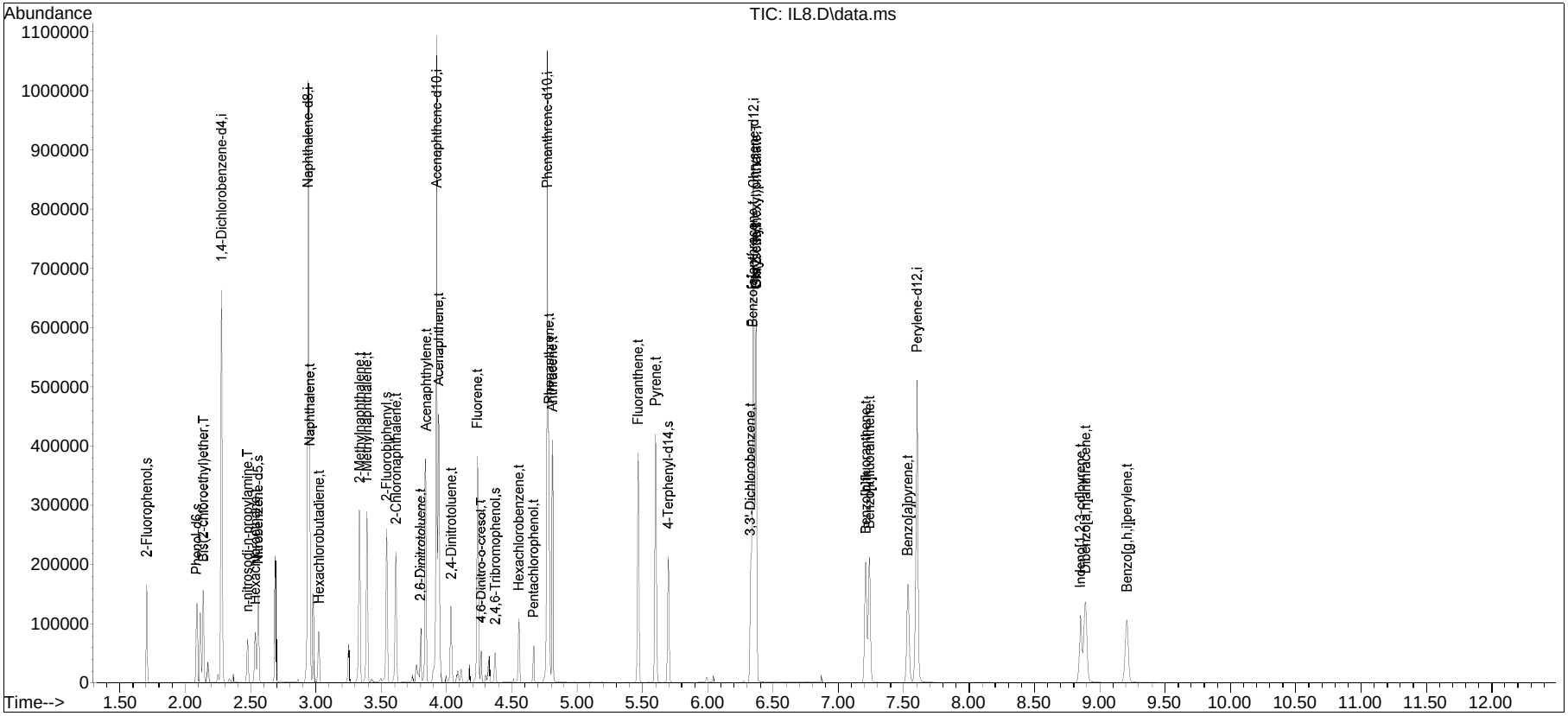
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

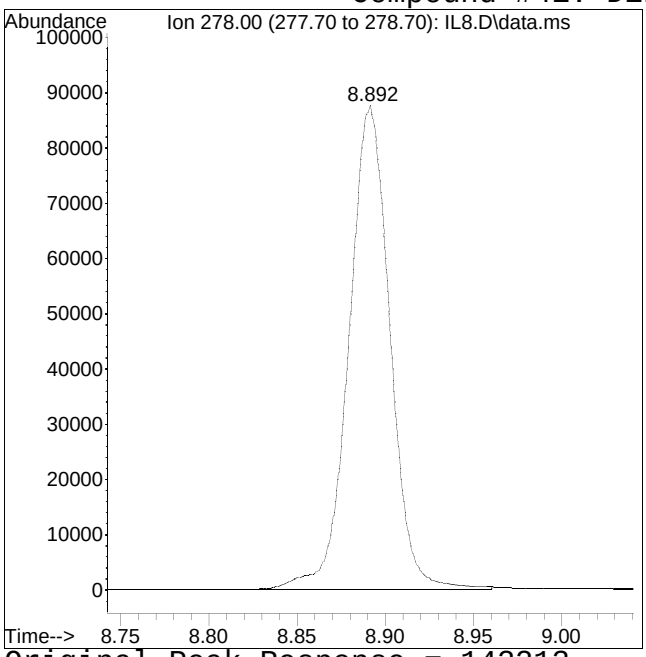
Sub List : Default - All compounds listedical\IL8.D•



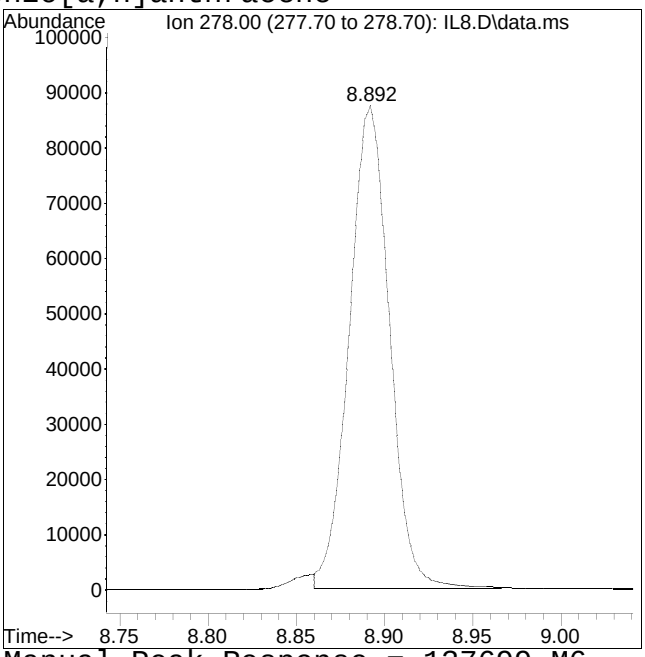
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL8.D Operator : SV120:dv
Date Inj'd : 5/21/2024 10:53 am Instrument : SV120
Sample : IL8,32,,1000.0ng/mL lot# 1Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 142213



Manual Peak Response = 137699 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	127479	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 70.52%			
8) Naphthalene-d8	2.943	136	472597	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 71.88%			
17) Acenaphthene-d10	3.924	164	263404	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 74.58%			
22) Phenanthrene-d10	4.769	188	556245	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 81.11%			
31) Chrysene-d12	6.346	240	492291	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 96.62%			
36) Perylene-d12	7.598	264	505627	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 102.72%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.692	112	19416	512.455	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.62%			
3) Phenol-d6	2.084	99	23552	517.132	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.86%			
7) Nitrobenzene-d5	2.555	82	21636	533.199	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 53.32%			
13) 2-Fluorobiphenyl	3.542	172	52459	522.038	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.20%			
21) 2,4,6-Tribromophenol	4.372	330	8787	493.467	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.67%			
30) 4-Terphenyl-d14	5.691	244	62251	550.030	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 27.50%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.138	93	20539	510.256	ng/ml	99
5) n-nitrosodi-n-propylamine	2.474	70	14595	528.760	ng/ml	99
6) Hexachloroethane	2.534	117	9123	500.207	ng/ml	100
9) Naphthalene	2.954	128	66018	494.201	ng/ml	99
10) Hexachlorobutadiene	3.026	225	12754	499.102	ng/ml	100
11) 2-Methylnaphthalene	3.336	142	43377	520.456	ng/ml	100
12) 1-Methylnaphthalene	3.392	142	40341	514.259	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	44381	521.005	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	10005	480.100	ng/ml	97
16) Acenaphthylene	3.844	152	69974	558.160	ng/ml	100
18) Acenaphthene	3.941	153	45784	506.589	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	14041	488.944	ng/ml	92
20) Fluorene	4.236	166	51566	529.317	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	7034	450.870	ng/ml	98
24) Hexachlorobenzene	4.553	284	20120	502.009	ng/ml	100
25) Pentachlorophenol	4.665	266	9212	425.967	ng/ml	99
26) Phenanthrene	4.783	178	82716	528.866	ng/ml	99
27) Anthracene	4.810	178	80972	523.978	ng/ml	100
28) Fluoranthene	5.465	202	91191	537.604	ng/ml	100
29) Pyrene	5.598	202	97876	556.459	ng/ml	100
32) Benzo[a]anthracene	6.339	228	93335	490.294	ng/ml	100
33) 3,3'-Dichlorobenzene	6.322	252	32939	502.107	ng/ml	99
34) Chrysene	6.363	228	93489	523.910	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.365	149	48117	416.501	ng/ml	99
37) Benzo[b]fluoranthene	7.207	252	85516	511.490	ng/ml	100
38) Benzo[k]fluoranthene	7.233	252	87991	552.817	ng/ml	100
39) Benzo[a]pyrene	7.526	252	74696	541.983	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.849	276	67861	522.826	ng/ml	99
41) Dibenzo[a,h]anthracene	8.887	278	69133M6	556.229	ng/ml	
42) Benzo[g,h,i]perylene	9.205	276	70489	533.799	ng/ml	100

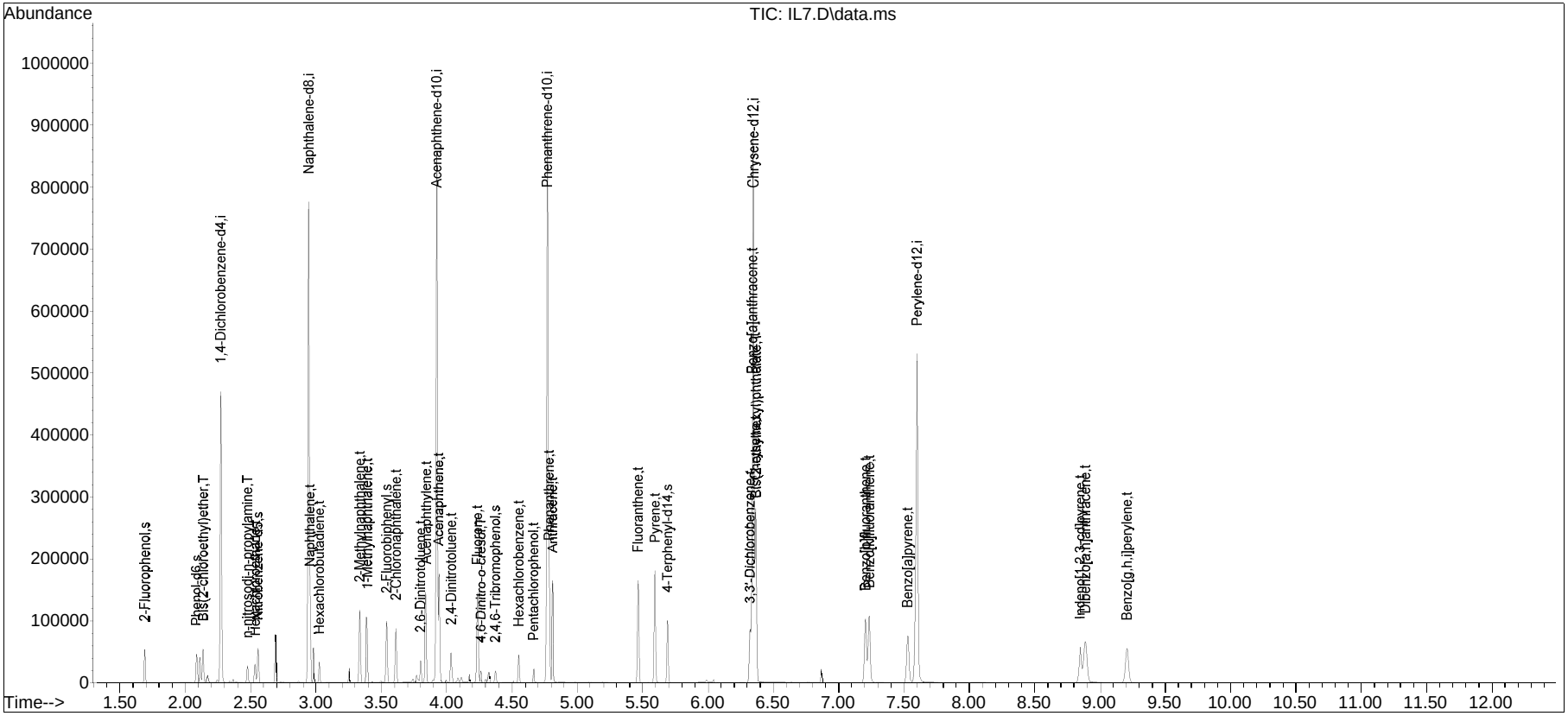
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

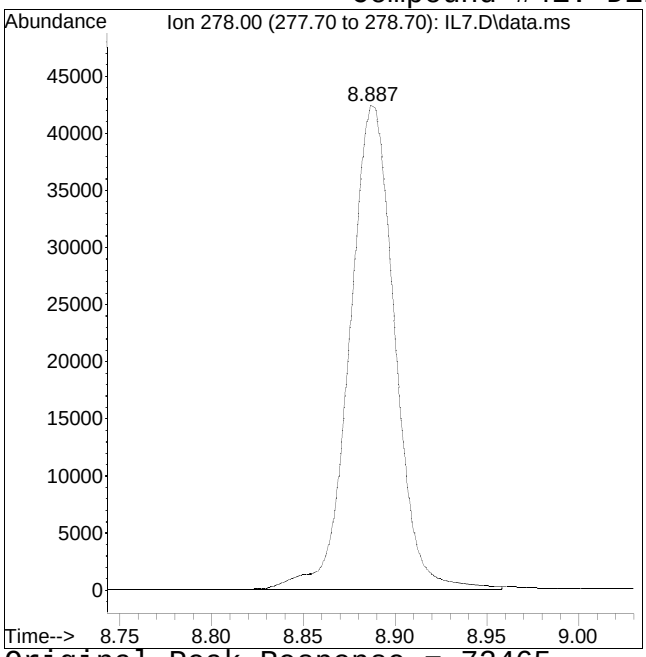
Sub List : Default - All compounds listedical\IL8.D•



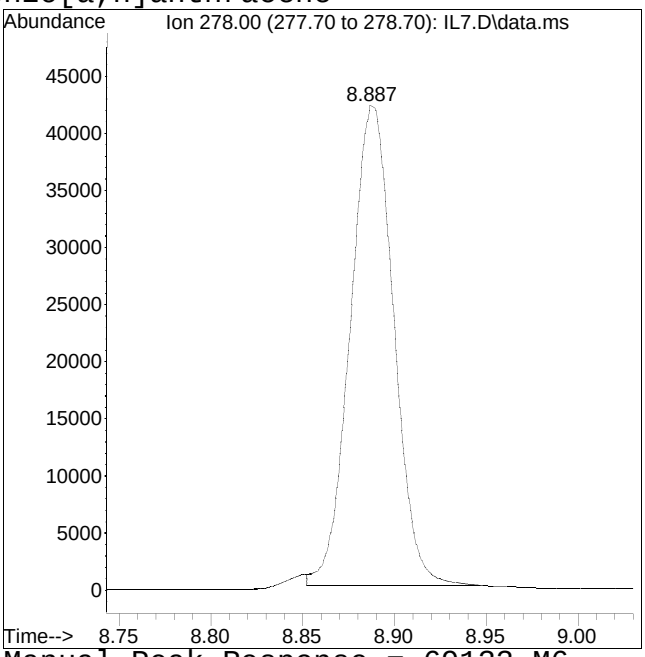
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL7.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:10 am Instrument : SV120
Sample : IL7,32,,500.0ng/mL lot# 10Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 72465



Manual Peak Response = 69133 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	157417	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 87.08%			
8) Naphthalene-d8	2.944	136	567346	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 86.29%			
17) Acenaphthene-d10	3.926	164	304671	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 86.26%			
22) Phenanthrene-d10	4.769	188	612121	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 89.26%			
31) Chrysene-d12	6.345	240	471973	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 92.63%			
36) Perylene-d12	7.597	264	452229	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 91.87%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.709	112	4679	100.008	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.00%#			
3) Phenol-d6	2.088	99	5524	98.223	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.91%#			
7) Nitrobenzene-d5	2.558	82	4851	96.812	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 9.68%#			
13) 2-Fluorobiphenyl	3.546	172	12062	99.987	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.00%#			
21) 2,4,6-Tribromophenol	4.371	330	1580	80.341	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.02%#			
30) 4-Terphenyl-d14	5.691	244	11653	93.563	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 4.68%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.141	93	4814	96.851	ng/ml	100
5) n-nitrosodi-n-propylamine	2.477	70	3282	96.290	ng/ml	100
6) Hexachloroethane	2.537	117	2203	97.817	ng/ml	100
9) Naphthalene	2.954	128	15467	96.447	ng/ml	100
10) Hexachlorobutadiene	3.027	225	3073	100.173	ng/ml	99
11) 2-Methylnaphthalene	3.336	142	9873	98.677	ng/ml	99
12) 1-Methylnaphthalene	3.393	142	9261	98.341	ng/ml	100
14) 2-Chloronaphthalene	3.609	162	10175	99.500	ng/ml	100
15) 2,6-Dinitrotoluene	3.804	165	1852	90.500	ng/ml	95
16) Acenaphthylene	3.843	152	14719	97.801	ng/ml	100
18) Acenaphthene	3.943	153	10392	99.410	ng/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.032	165	2379	88.975	ng/ml#	71
20) Fluorene	4.236	166	11094	98.454	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	951	83.872	ng/ml	94
24) Hexachlorobenzene	4.556	284	4376	99.218	ng/ml	99
25) Pentachlorophenol	4.665	266	960	80.944	ng/ml	100
26) Phenanthrene	4.783	178	17464M6	101.468	ng/ml	
27) Anthracene	4.810	178	16498	97.015	ng/ml	100
28) Fluoranthene	5.465	202	17507	93.789	ng/ml	100
29) Pyrene	5.598	202	18245	94.261	ng/ml	100
32) Benzo[a]anthracene	6.336	228	17395	89.355	ng/ml	98
33) 3,3'-Dichlorobenzene	6.321	252	5076	80.707	ng/ml	99
34) Chrysene	6.360	228	17119	100.064	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.362	149	6984	88.047	ng/ml	98
37) Benzo[b]fluoranthene	7.204	252	14004	93.651	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	13400	94.128	ng/ml	100
39) Benzo[a]pyrene	7.522	252	11218	91.007	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.846	276	10212	87.967	ng/ml	98
41) Dibenzo[a,h]anthracene	8.883	278	10300M6	92.657	ng/ml	
42) Benzo[g,h,i]perylene	9.196	276	10836	91.748	ng/ml	99

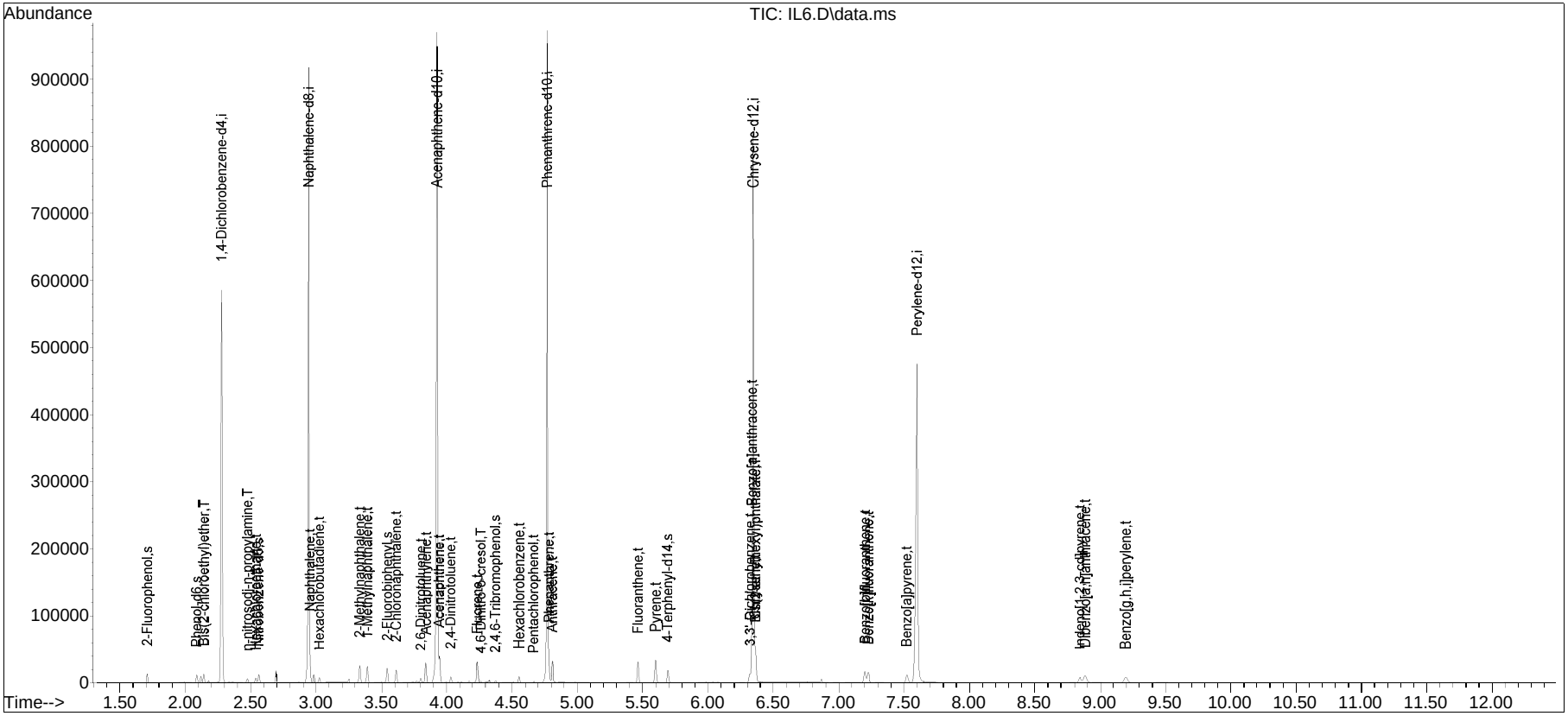
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

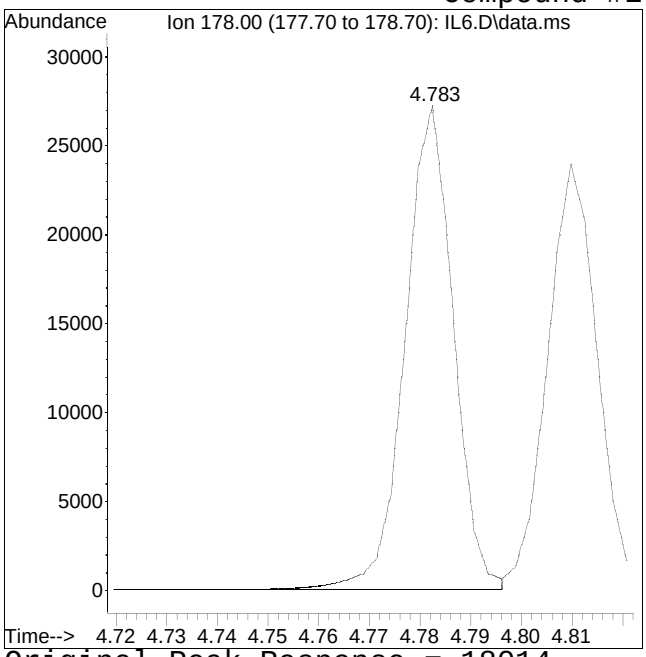
Sub List : Default - All compounds listedical\IL8.D•



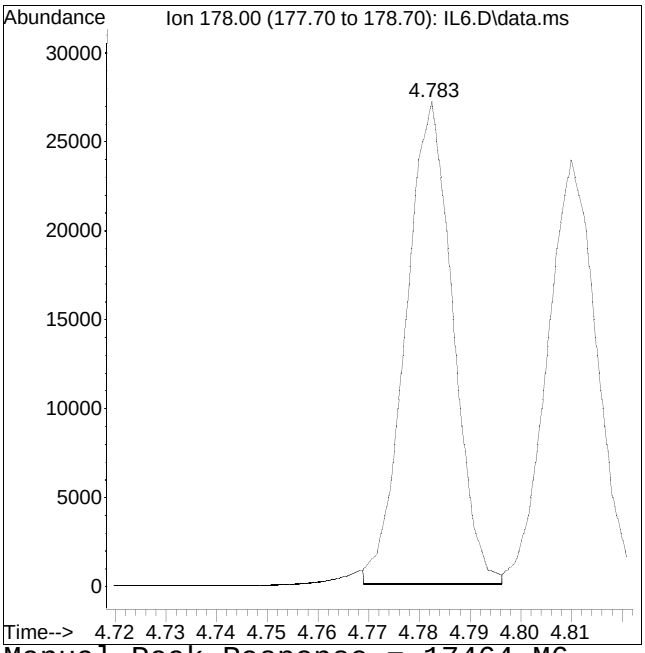
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL6.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:26 am Instrument : SV120
Sample : IL6,32,,100.0ng/mL lot# 10Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 18014



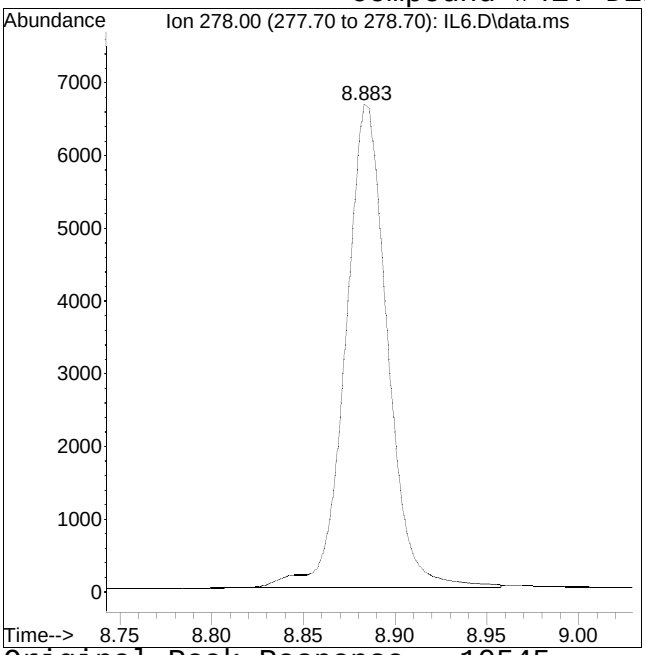
Manual Peak Response = 17464 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

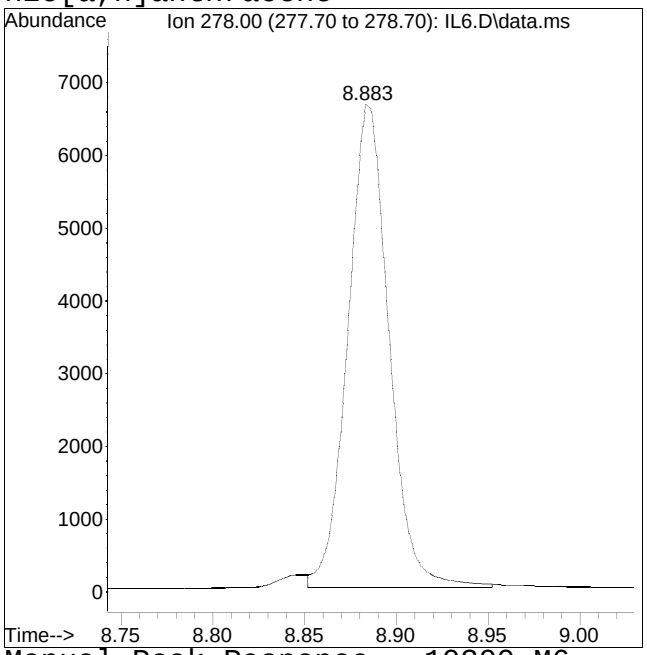
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL6.D
Date Inj'd : 5/21/2024 11:26 am
Sample : IL6,32,,100.0ng/mL lot# 10
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 10545



Manual Peak Response = 10300 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	155533	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 86.04%			
8) Naphthalene-d8	2.944	136	556243	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 84.61%			
17) Acenaphthene-d10	3.927	164	298281	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 84.45%			
22) Phenanthrene-d10	4.770	188	585629	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 85.40%			
31) Chrysene-d12	6.344	240	449577	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 88.23%			
36) Perylene-d12	7.592	264	438216	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 89.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.711	112	1849	39.999	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 2.00%#			
3) Phenol-d6	2.091	99	2162	38.909	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.95%#			
7) Nitrobenzene-d5	2.558	82	1895	38.277	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.83%#			
13) 2-Fluorobiphenyl	3.545	172	4761	40.254	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.03%#			
21) 2,4,6-Tribromophenol	4.375	330	539	30.794	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.54%#			
30) 4-Terphenyl-d14	5.691	244	4407	36.985	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 1.85%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	1971	40.134	ng/ml	98
5) n-nitrosodi-n-propylamine	2.480	70	1270	37.712	ng/ml	100
6) Hexachloroethane	2.537	117	885	39.771	ng/ml	99
9) Naphthalene	2.957	128	6225	39.592	ng/ml	99
10) Hexachlorobutadiene	3.027	225	1239	41.195	ng/ml	99
11) 2-Methylnaphthalene	3.336	142	3917	39.930	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	3653	39.565	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	4019	40.086	ng/ml	100
15) 2,6-Dinitrotoluene	3.805	165	686	46.308	ng/ml	93
16) Acenaphthylene	3.844	152	5629	38.149	ng/ml	100
18) Acenaphthene	3.944	153	4149	40.540	ng/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	833	44.881	ng/ml#	49
20) Fluorene	4.236	166	4281	38.806	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.265	198	297M6	49.087	ng/ml	
24) Hexachlorobenzene	4.554	284	1683	39.885	ng/ml	99
25) Pentachlorophenol	4.666	266	222M6	53.577	ng/ml	
26) Phenanthrene	4.784	178	6743M6	40.950	ng/ml	
27) Anthracene	4.811	178	6218	38.218	ng/ml	99
28) Fluoranthene	5.466	202	6696	37.495	ng/ml	100
29) Pyrene	5.595	202	6838	36.926	ng/ml	100
32) Benzo[a]anthracene	6.336	228	7399	35.809	ng/ml	94
33) 3,3'-Dichlorobenzene	6.317	252	1817	30.329	ng/ml	98
34) Chrysene	6.358	228	6593	40.457	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.361	149	2582	52.192	ng/ml	95
37) Benzo[b]fluoranthene	7.202	252	5205	35.921	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	5108	37.028	ng/ml	100
39) Benzo[a]pyrene	7.523	252	4242	35.514	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.844	276	3982	35.398	ng/ml	99
41) Dibenzo[a,h]anthracene	8.881	278	3916M6	36.354	ng/ml	
42) Benzo[g,h,i]perylene	9.197	276	4197	36.672	ng/ml	99

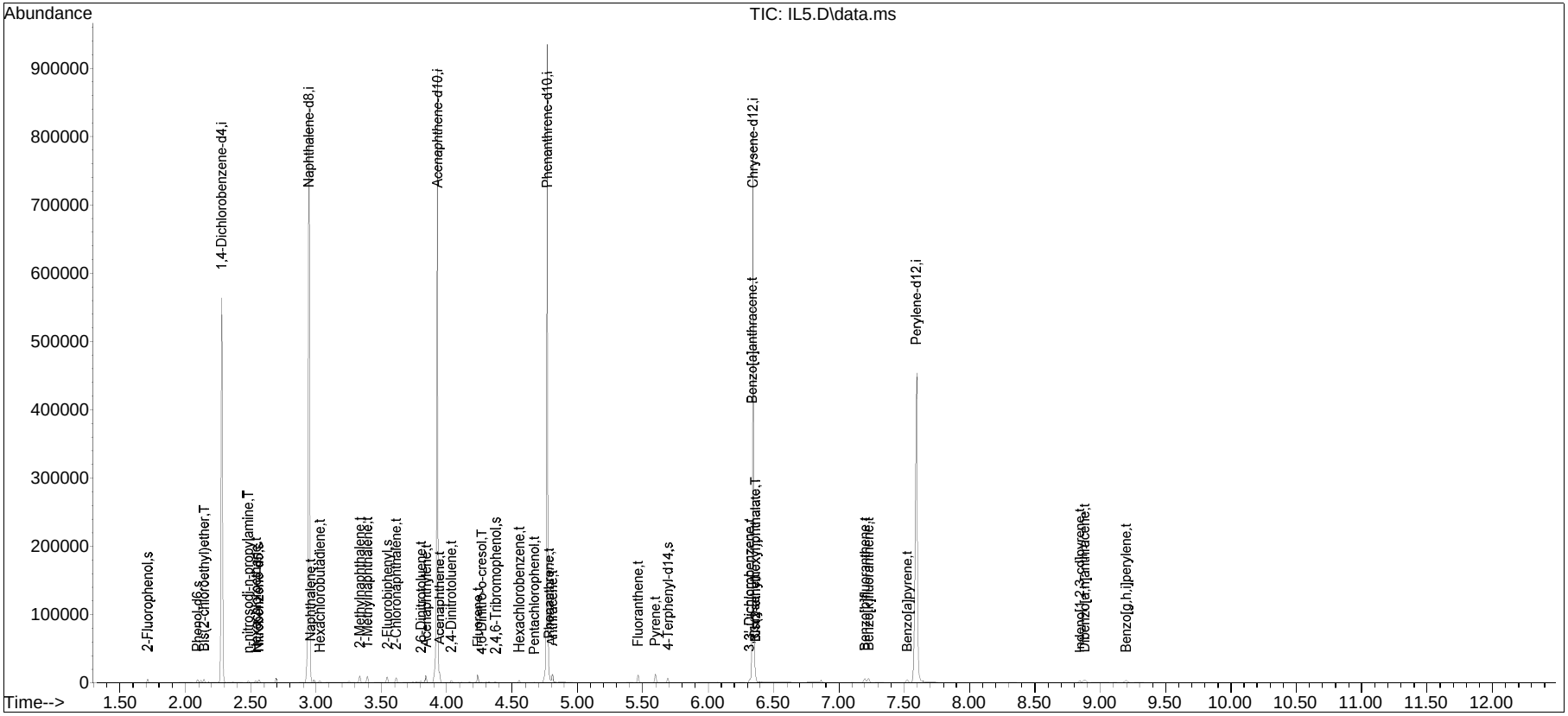
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

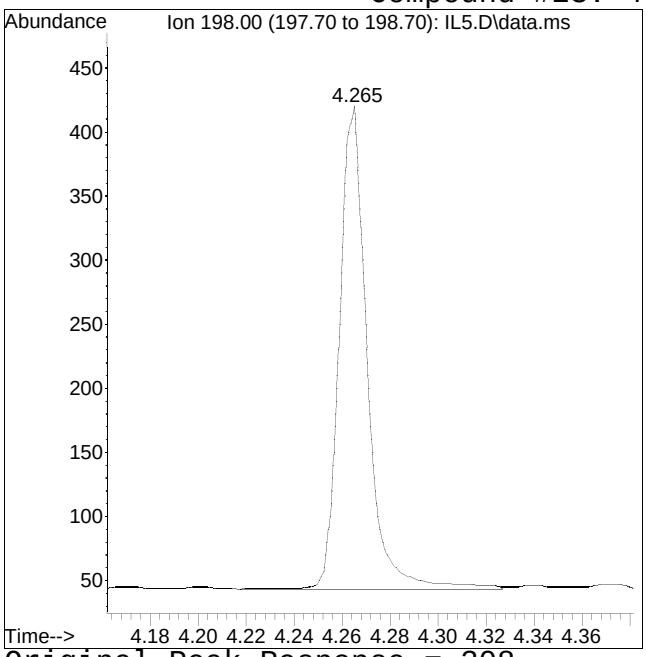
Sub List : Default - All compounds listedical\IL8.D•



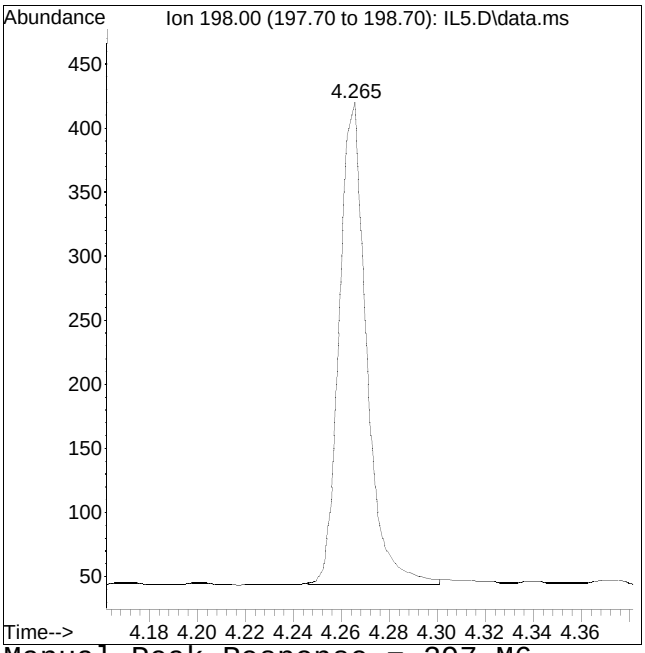
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 308



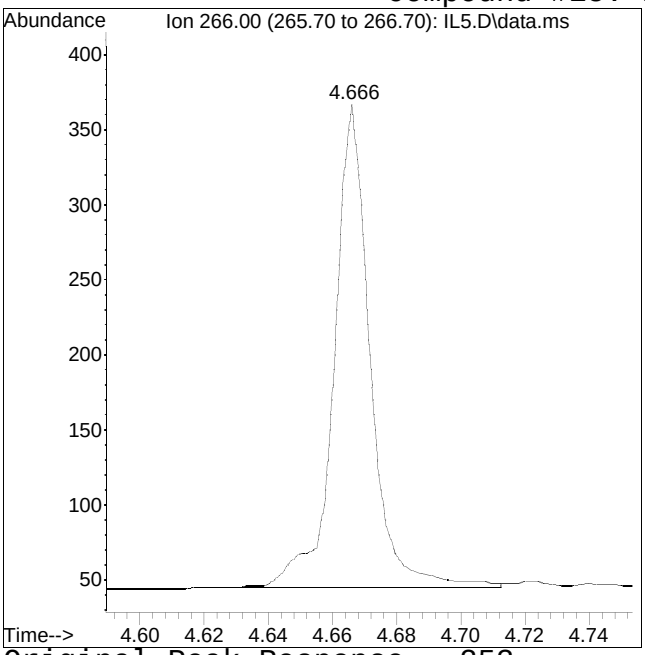
Manual Peak Response = 297 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

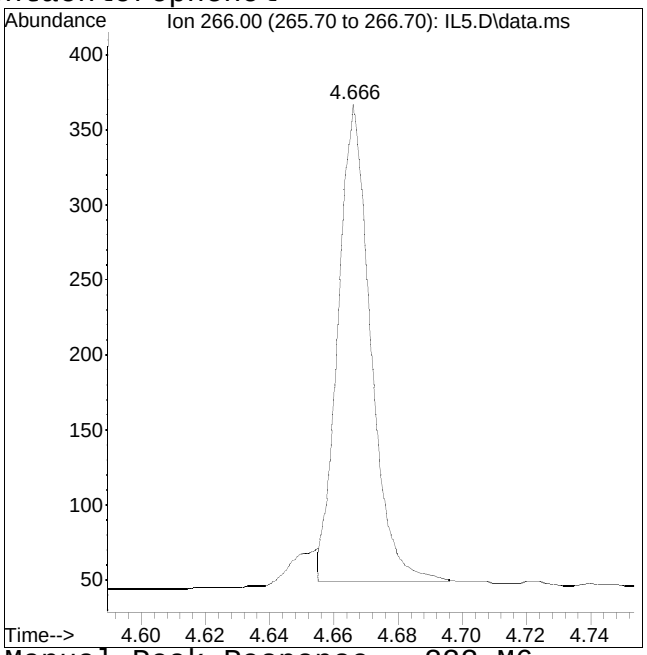
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 253



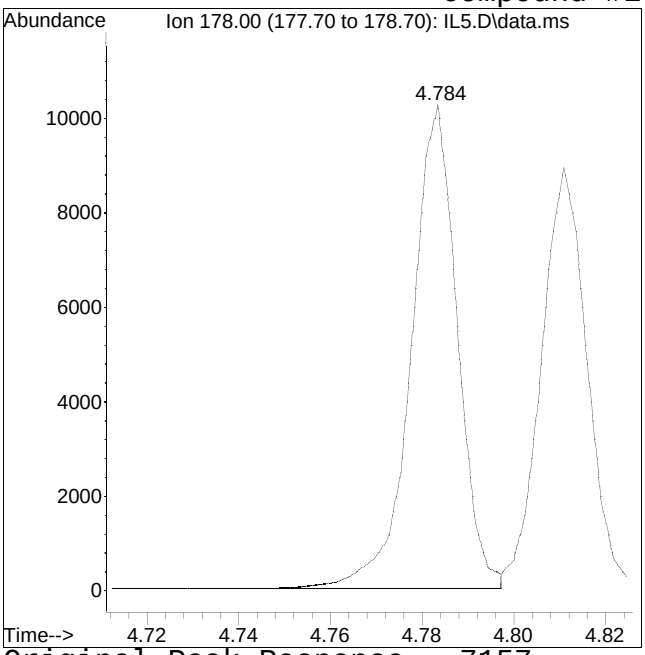
Manual Peak Response = 222 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

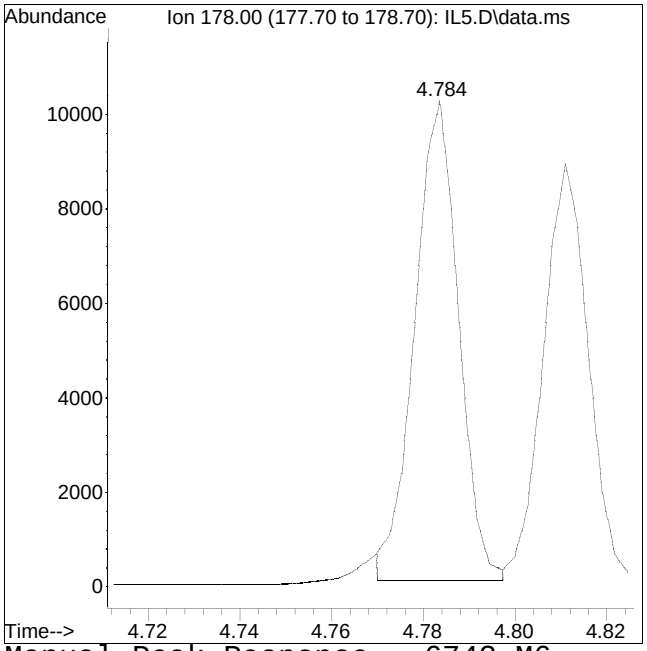
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 7157



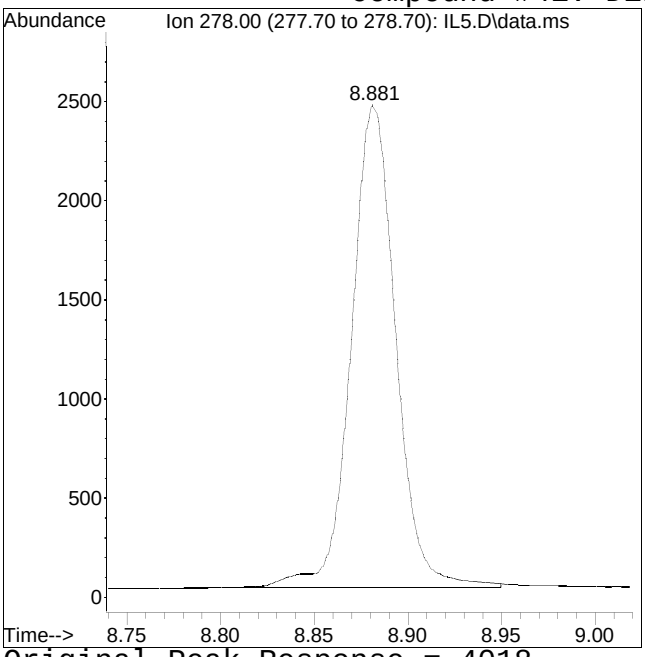
Manual Peak Response = 6743 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

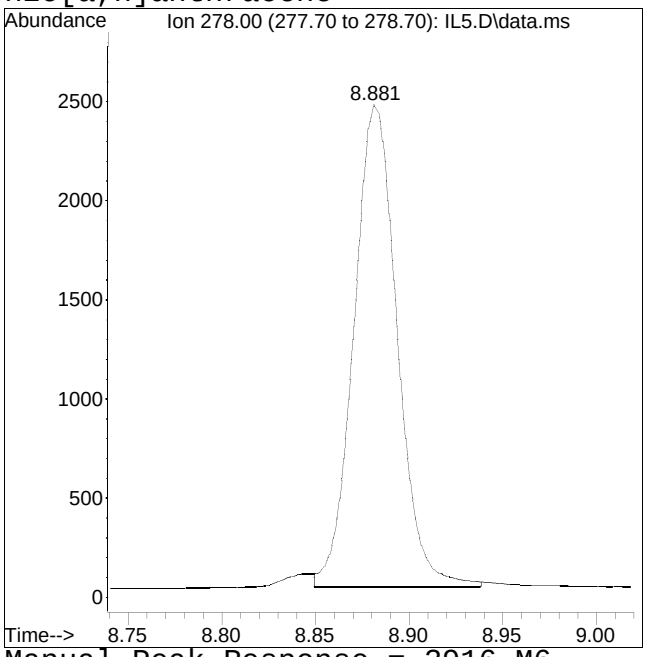
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 4018



Manual Peak Response = 3916 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	162672	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 89.99%			
8) Naphthalene-d8	2.944	136	580024	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 88.22%			
17) Acenaphthene-d10	3.927	164	304551	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 86.23%			
22) Phenanthrene-d10	4.770	188	581441	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 84.79%			
31) Chrysene-d12	6.343	240	437776	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 85.92%			
36) Perylene-d12	7.592	264	423252	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 85.98%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.711	112	465	9.618	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.48%#			
3) Phenol-d6	2.091	99	538	9.257	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.46%#			
7) Nitrobenzene-d5	2.561	82	465	8.980	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.90%#			
13) 2-Fluorobiphenyl	3.545	172	1185	9.608	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.96%#			
21) 2,4,6-Tribromophenol	4.372	330	121	10.122	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.51%#			
30) 4-Terphenyl-d14	5.692	244	1012	8.554	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.43%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	501	9.754	ng/ml	96
5) n-nitrosodi-n-propylamine	2.480	70	319	9.057	ng/ml	96
6) Hexachloroethane	2.537	117	228	9.797	ng/ml	97
9) Naphthalene	2.954	128	1592	9.710	ng/ml#	97
10) Hexachlorobutadiene	3.029	225	316	10.076	ng/ml	97
11) 2-Methylnaphthalene	3.336	142	976	9.542	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	916	9.514	ng/ml	98
14) 2-Chloronaphthalene	3.609	162	1004	9.603	ng/ml	100
15) 2,6-Dinitrotoluene	3.805	165	156	25.326	ng/ml	93
16) Acenaphthylene	3.844	152	1359	8.833	ng/ml	100
18) Acenaphthene	3.944	153	1050	10.048	ng/ml	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	235M4	27.114	ng/ml	
20) Fluorene	4.237	166	1026	9.109	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.266	198	49M7	35.022	ng/ml	
24) Hexachlorobenzene	4.554	284	402	9.596	ng/ml	100
25) Pentachlorophenol	4.666	266	46M1	46.674	ng/ml	
26) Phenanthrene	4.784	178	1615M6	9.878	ng/ml	
27) Anthracene	4.811	178	1470	9.100	ng/ml	99
28) Fluoranthene	5.466	202	1561	8.804	ng/ml	99
29) Pyrene	5.596	202	1578	8.583	ng/ml	99
32) Benzo[a]anthracene	6.341	228	2713	8.875	ng/ml#	83
33) 3,3'-Dichlorobenzene	6.319	252	408	6.994	ng/ml	99
34) Chrysene	6.358	228	1508	9.503	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.360	149	544M6	34.370	ng/ml	
37) Benzo[b]fluoranthene	7.201	252	1200	8.574	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	1157	8.684	ng/ml	100
39) Benzo[a]pyrene	7.520	252	936	8.113	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.838	276	903	8.311	ng/ml	98
41) Dibenzo[a,h]anthracene	8.881	278	850M6	8.170	ng/ml	
42) Benzo[g,h,i]perylene	9.193	276	942	8.522	ng/ml	98

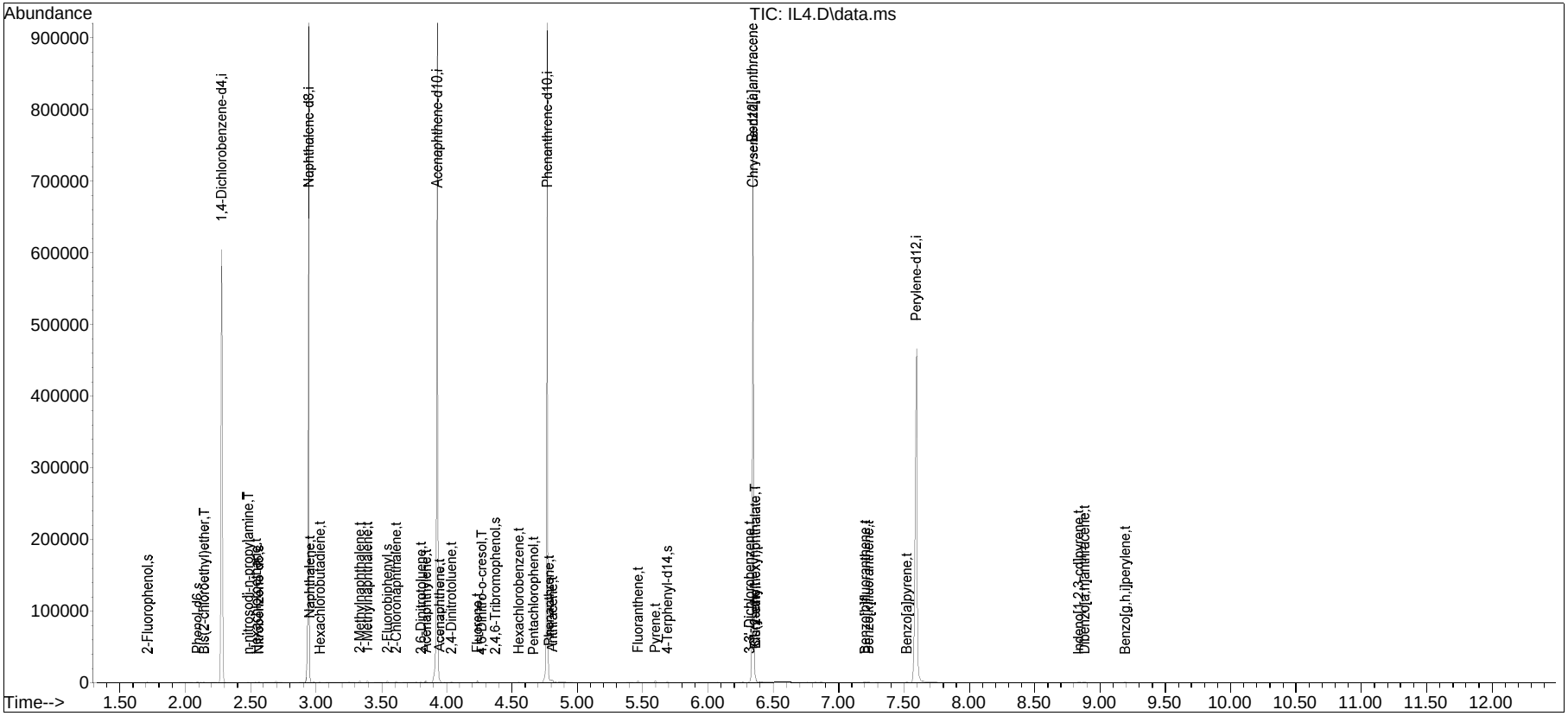
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

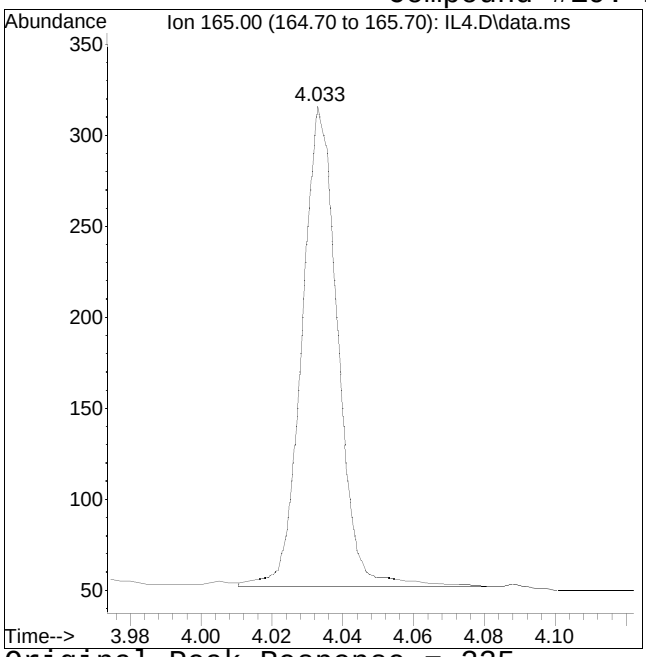
Sub List : Default - All compounds listedical\IL8.D•



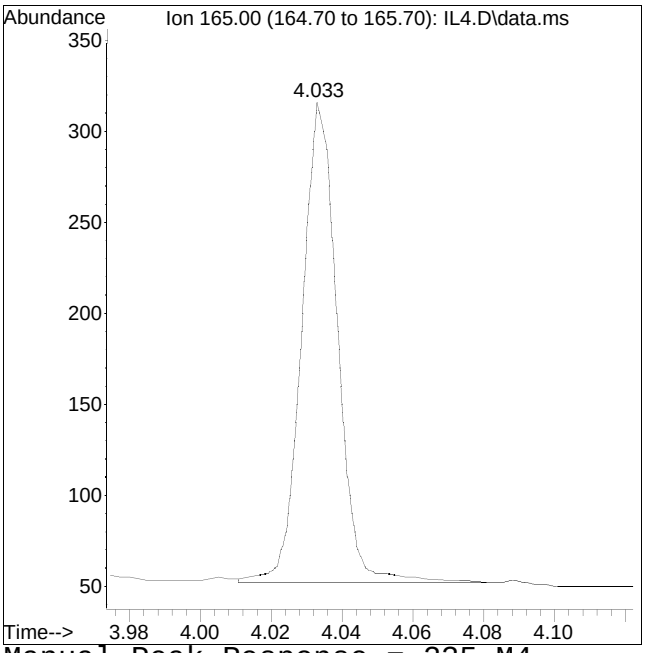
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 235



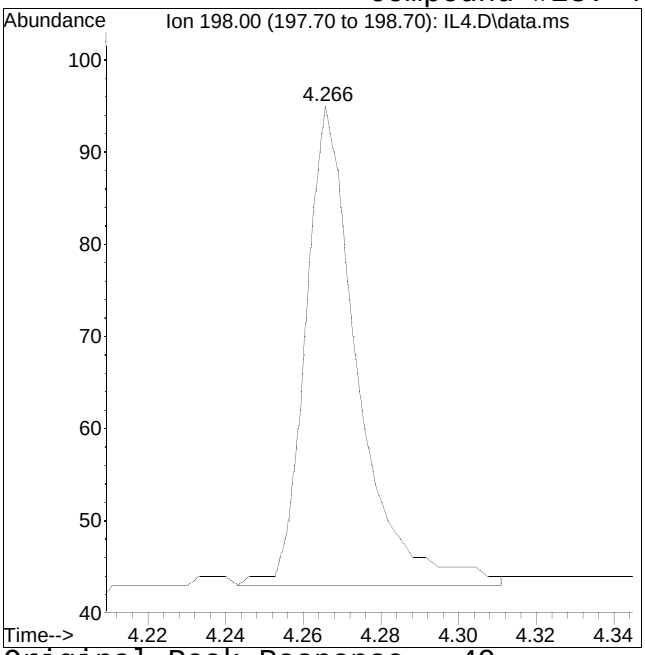
Manual Peak Response = 235 M4

M4 = Poor automated baseline construction.

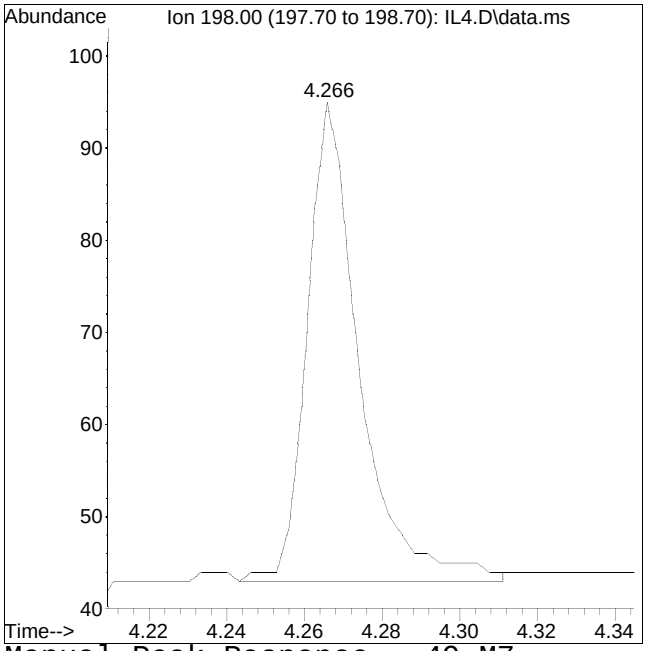
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 49



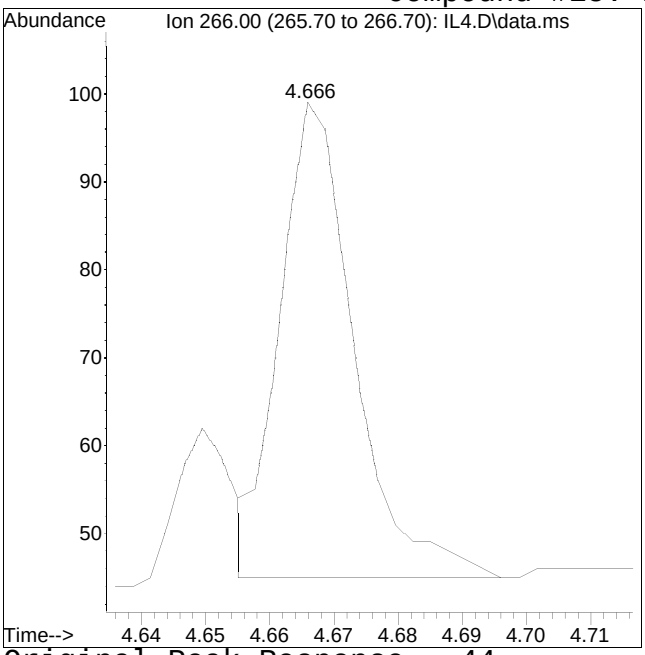
Manual Peak Response = 49 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

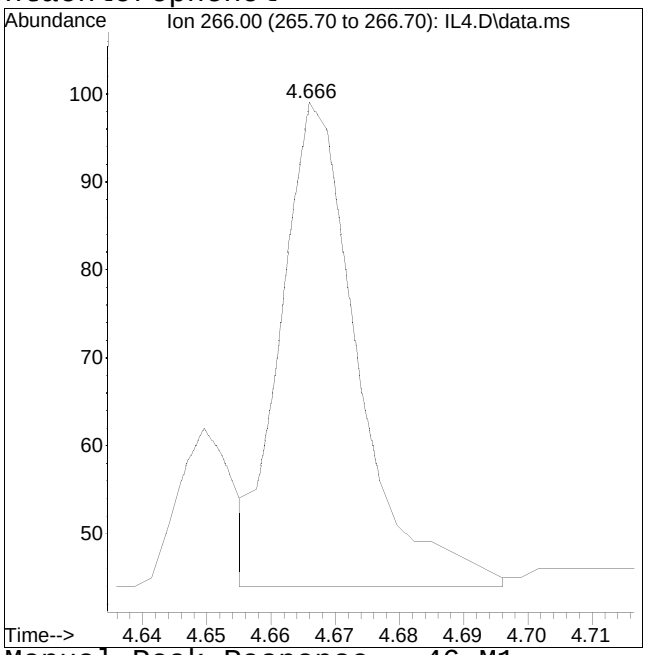
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 44



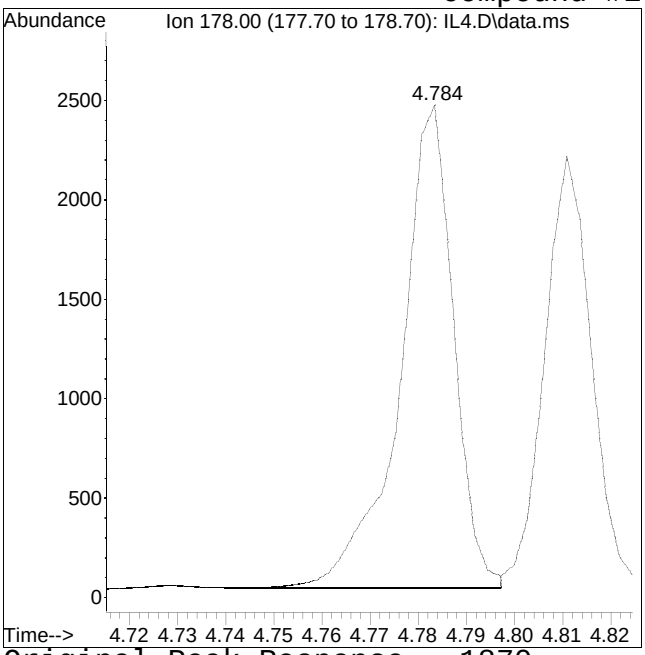
Manual Peak Response = 46 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

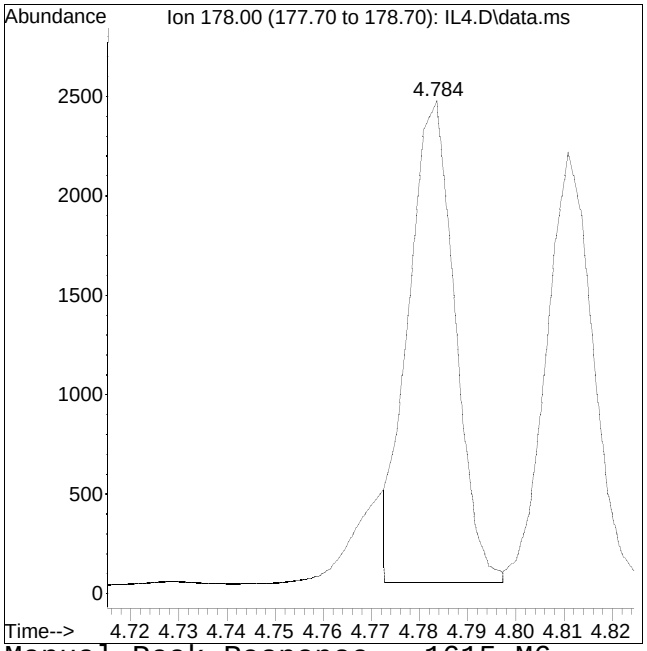
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 1870



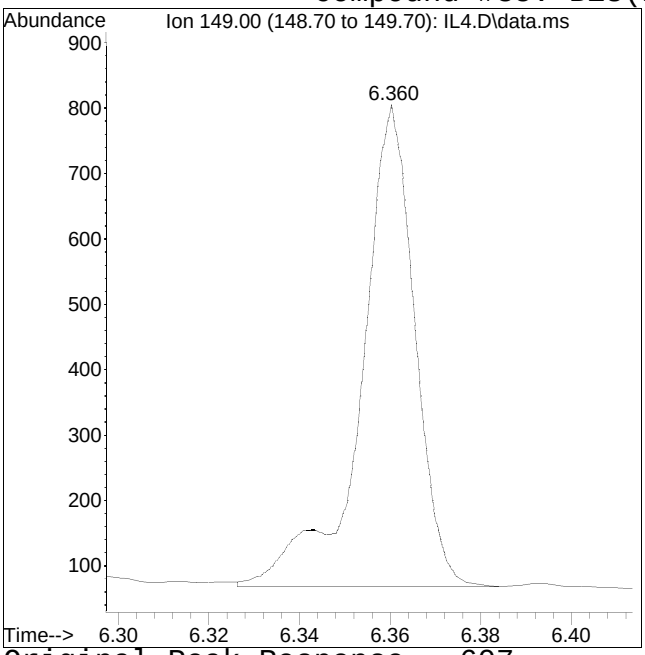
Manual Peak Response = 1615 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

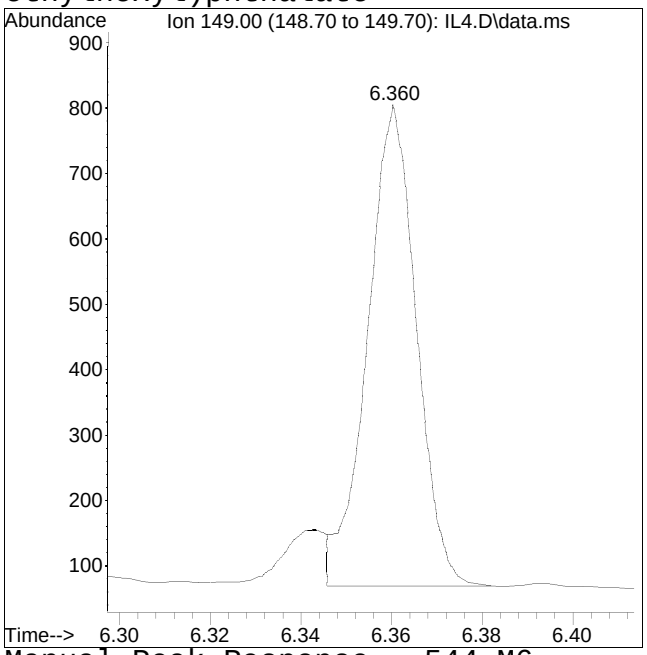
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 607



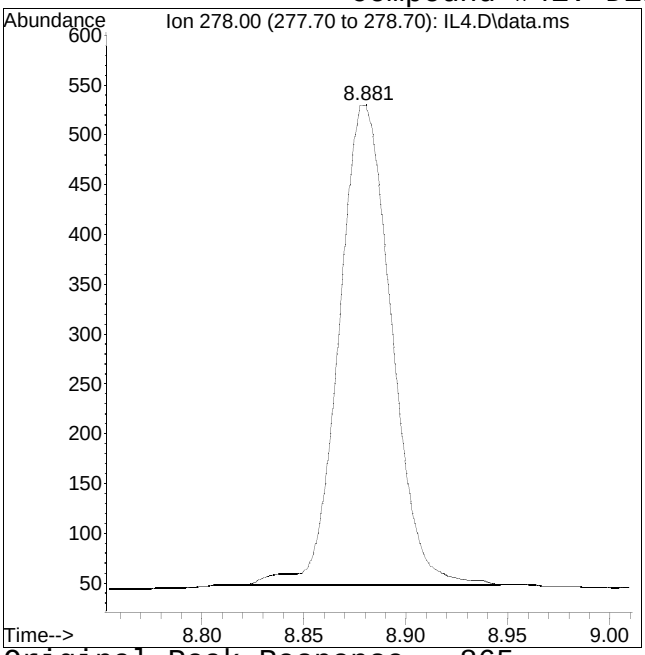
Manual Peak Response = 544 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

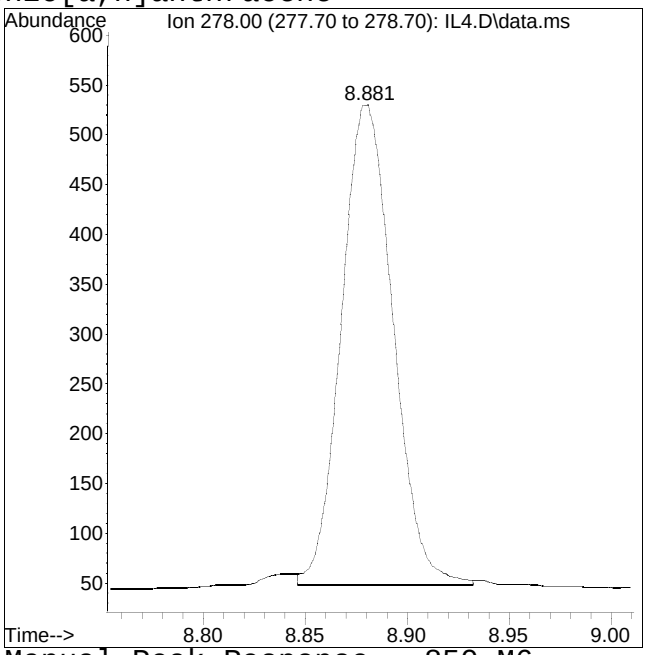
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL4.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:59 am Instrument : SV120
Sample : IL4,32,,10.0ng/mL lot#1046Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 865



Manual Peak Response = 850 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	139698	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 77.28%			
8) Naphthalene-d8	2.944	136	503208	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 76.54%			
17) Acenaphthene-d10	3.926	164	270405	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 76.56%			
22) Phenanthrene-d10	4.771	188	537959	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 78.45%			
31) Chrysene-d12	6.339	240	426448	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 83.69%			
36) Perylene-d12	7.587	264	412718	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 83.84%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.707	112	204	4.913	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	2.088	99	236	4.729	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.558	82	202	4.543	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.45%#			
13) 2-Fluorobiphenyl	3.546	172	516	4.823	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.48%#			
21) 2,4,6-Tribromophenol	4.374	330	50M6	7.008	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.35%#			
30) 4-Terphenyl-d14	5.689	244	518	4.732	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.24%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.141	93	218	4.942	ng/ml	93
5) n-nitrosodi-n-propylamine	2.480	70	139M6	4.595	ng/ml	
6) Hexachloroethane	2.537	117	99	4.953	ng/ml	99
9) Naphthalene	2.954	128	699	4.914	ng/ml#	93
10) Hexachlorobutadiene	3.027	225	130	4.778	ng/ml	95
11) 2-Methylnaphthalene	3.336	142	423	4.767	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	401	4.801	ng/ml	100
14) 2-Chloronaphthalene	3.609	162	434	4.785	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.842	152	591	4.427	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.943	153	445M6	4.796	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.235	166	462	4.620	ng/ml	100
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.555	284	183	4.721	ng/ml	100
25) Pentachlorophenol	4.667	266	23M2	45.837	ng/ml	
26) Phenanthrene	4.782	178	754M6	4.985	ng/ml	
27) Anthracene	4.812	178	681	4.557	ng/ml	98
28) Fluoranthene	5.467	202	736	4.486	ng/ml	98
29) Pyrene	5.597	202	754	4.432	ng/ml	99
32) Benzo[a]anthracene	6.339	228	1960	4.672	ng/ml#	75
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.356	228	741	4.794	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.359	149	281	32.058	ng/ml	96
37) Benzo[b]fluoranthene	7.196	252	592	4.338	ng/ml	99
38) Benzo[k]fluoranthene	7.222	252	551	4.241	ng/ml	99
39) Benzo[a]pyrene	7.518	252	464	4.125	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.838	276	439	4.144	ng/ml	98
41) Dibenzo[a,h]anthracene	8.879	278	405M6	3.992	ng/ml	
42) Benzo[g,h,i]perylene	9.191	276	452	4.193	ng/ml	100

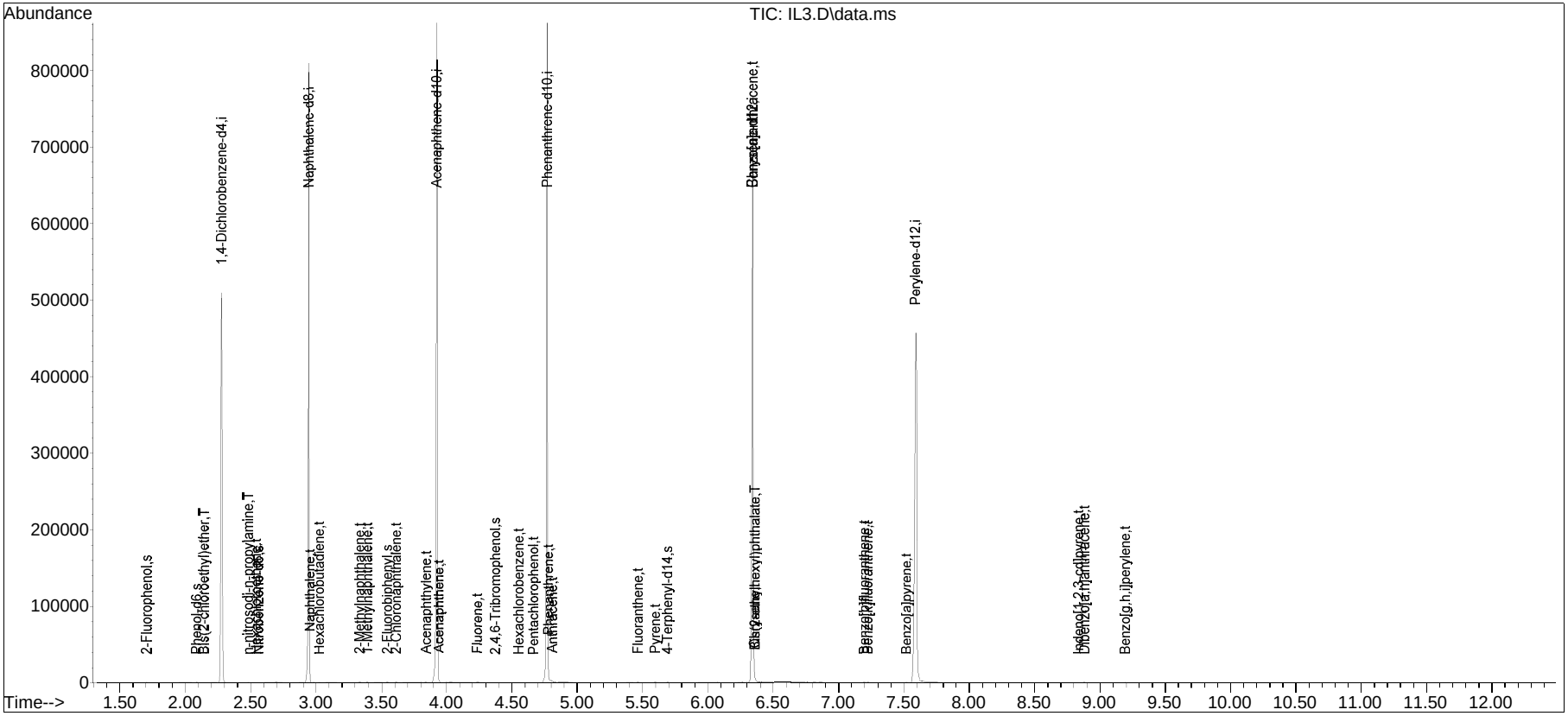
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

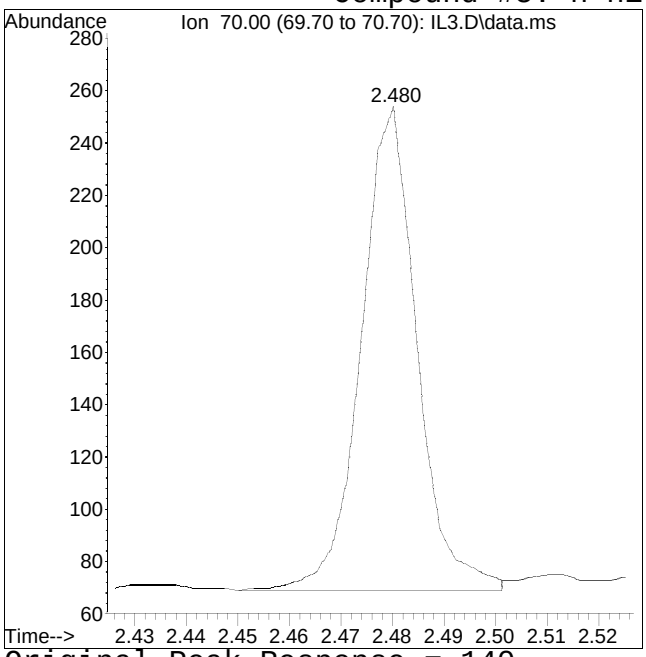
Sub List : Default - All compounds listedical\IL8.D•



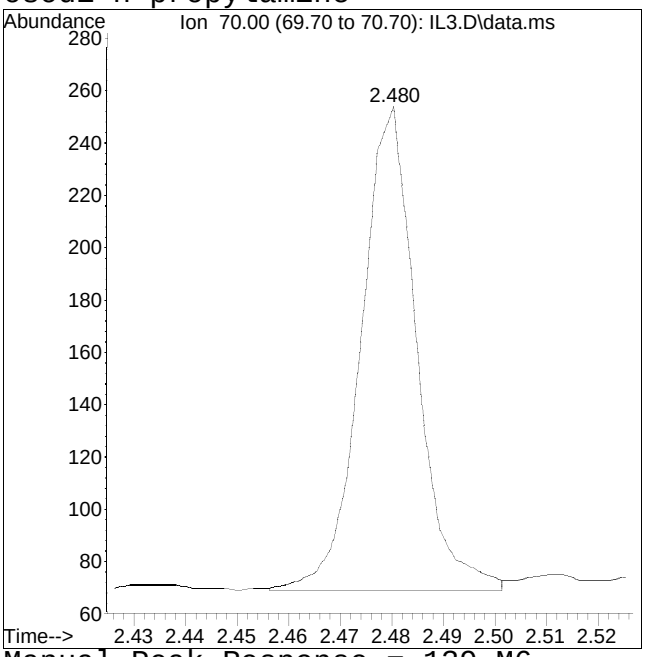
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 140



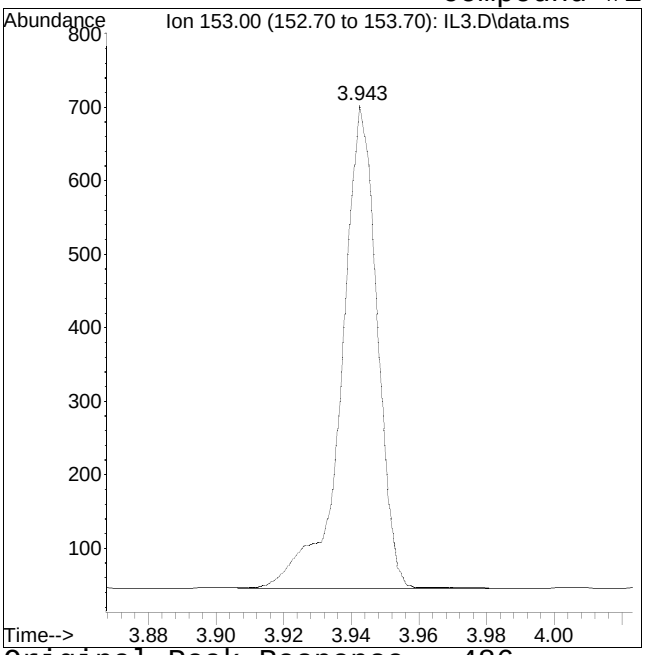
Manual Peak Response = 139 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

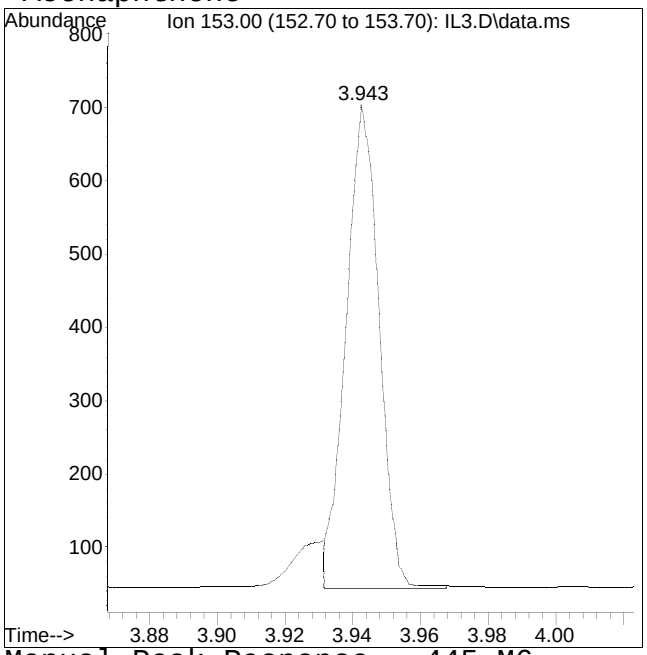
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #18: Acenaphthene



Original Peak Response = 486



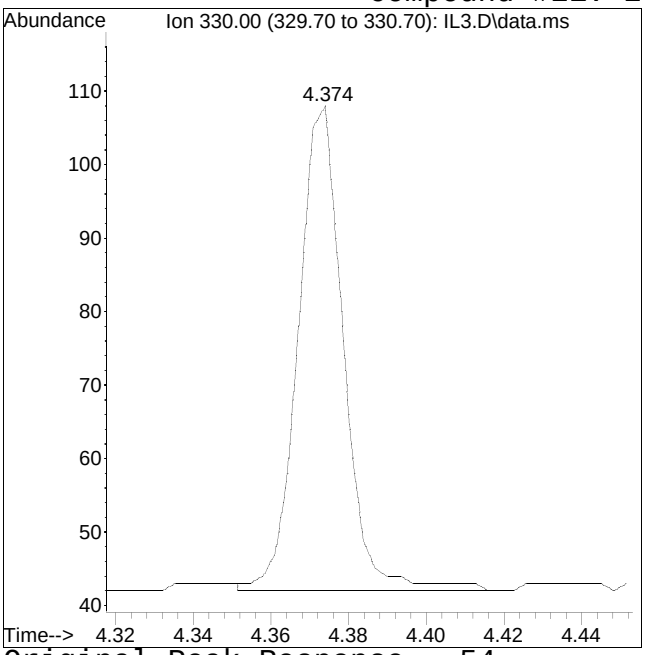
Manual Peak Response = 445 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

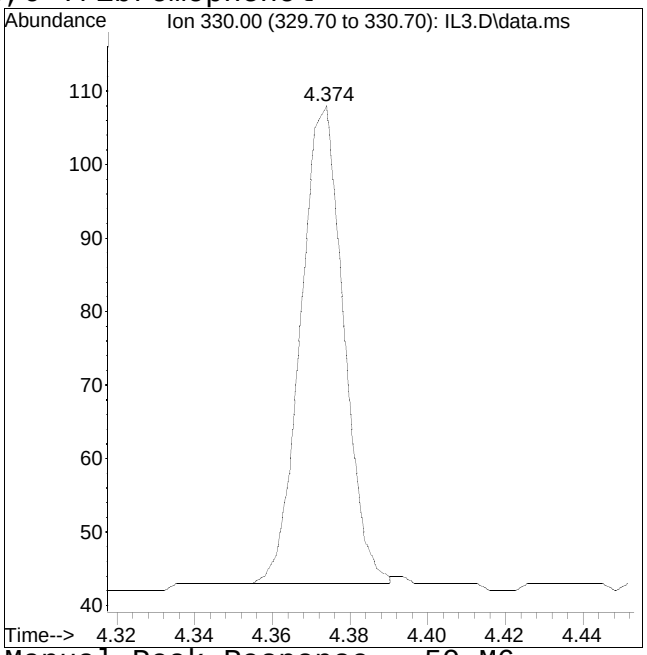
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 54



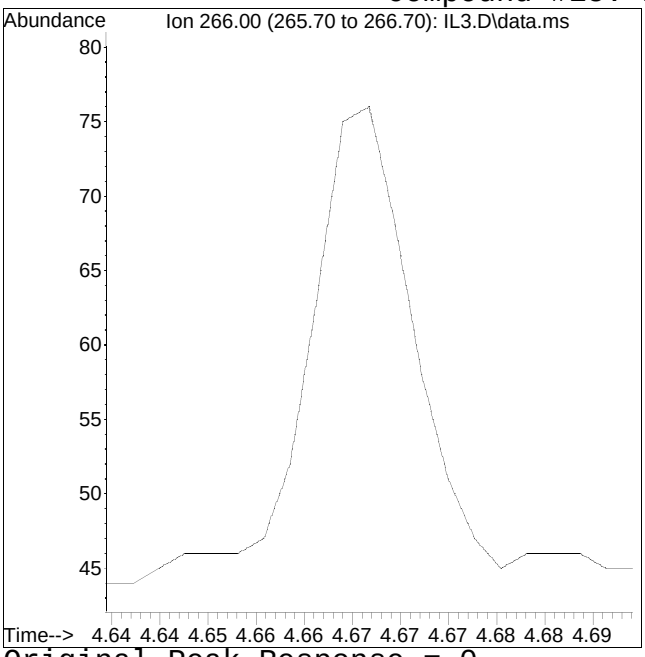
Manual Peak Response = 50 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

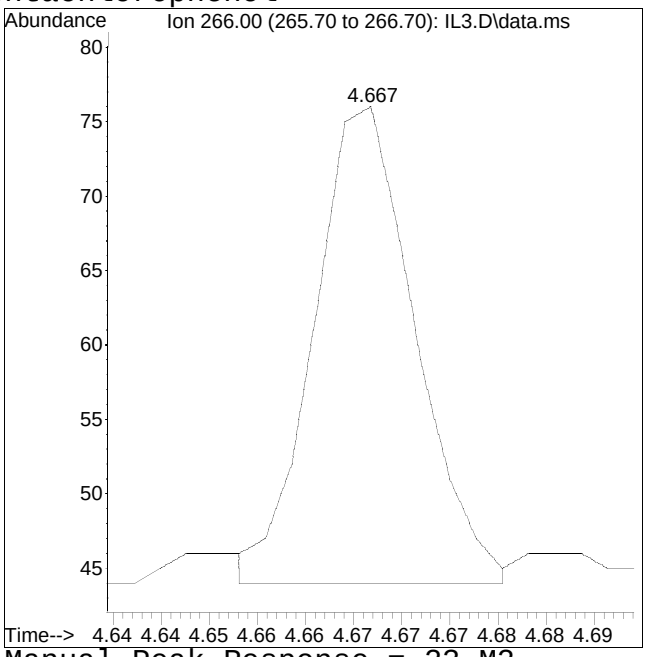
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 0



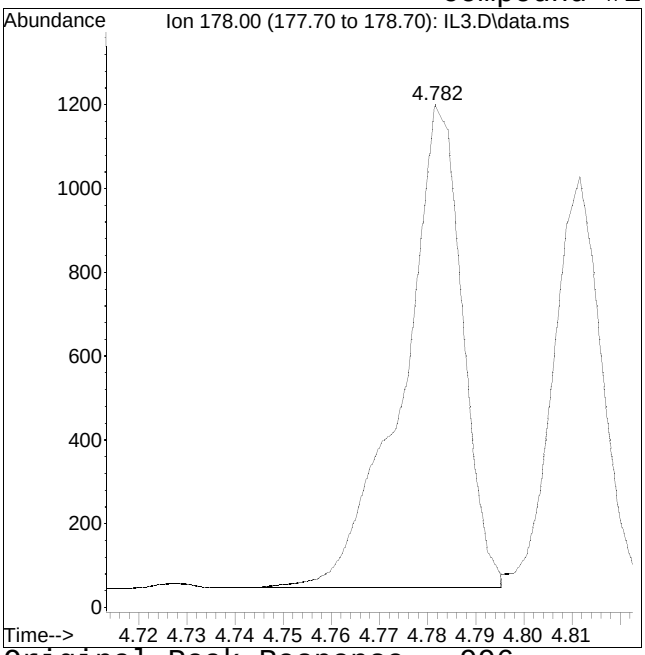
Manual Peak Response = 23 M2

M2 = Peak not found by automatic integration algorithm.

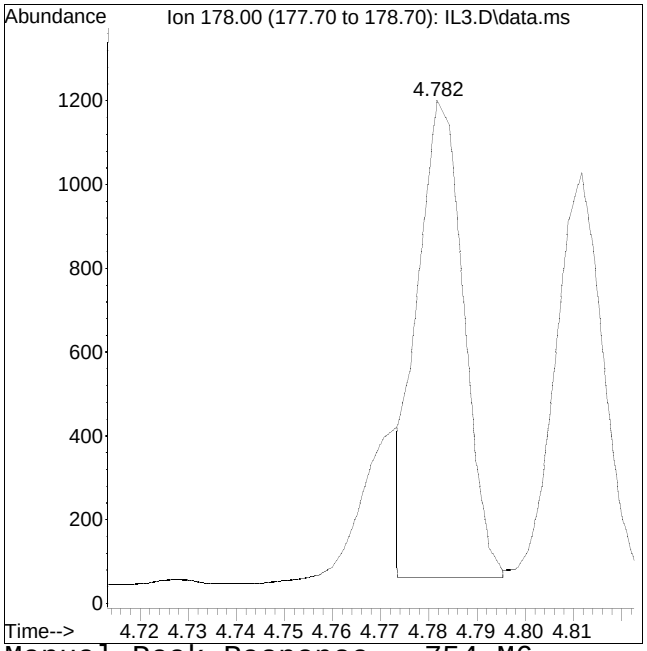
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL3.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:15 pm Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1046Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 996



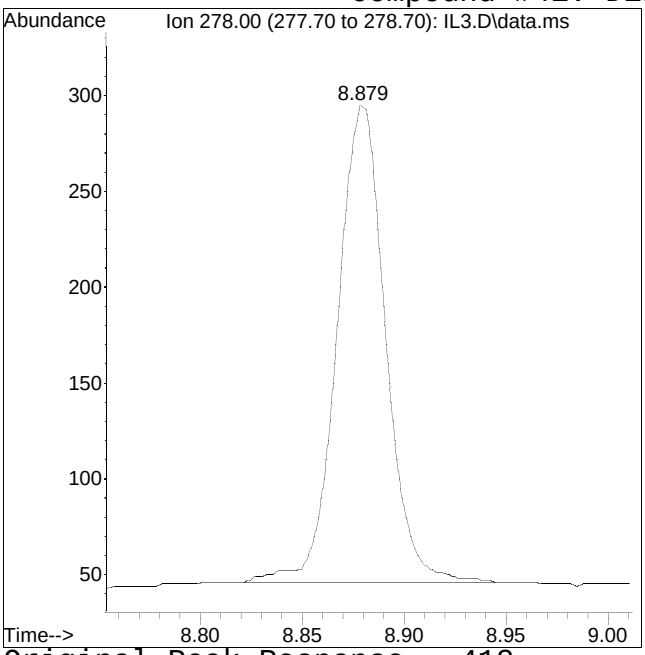
Manual Peak Response = 754 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

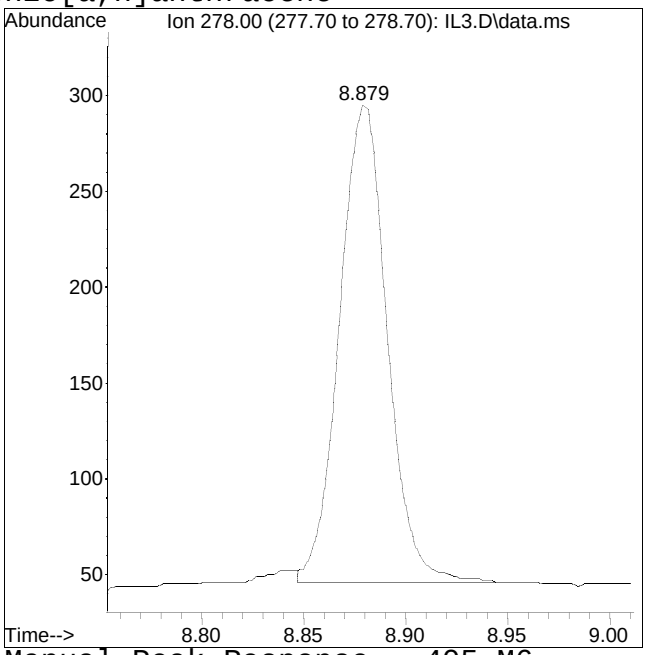
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 412



Manual Peak Response = 405 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	153895	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 85.14%			
8) Naphthalene-d8	2.944	136	545310	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 82.94%			
17) Acenaphthene-d10	3.927	164	283118	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 80.16%			
22) Phenanthrene-d10	4.770	188	544715	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 79.43%			
31) Chrysene-d12	6.339	240	389724	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 76.49%			
36) Perylene-d12	7.583	264	368708	4000.000	ng/ml	-0.02
Standard Area 1 = 492251			Recovery = 74.90%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.719	112	93	2.033	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	2.091	99	109M7	1.983	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.561	82	96	1.960	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.20%#			
13) 2-Fluorobiphenyl	3.545	172	240	2.070	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.688	244	225M4	2.030	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.10%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	105	2.161	ng/ml	91
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.954	128	335	2.173	ng/ml#	82
10) Hexachlorobutadiene	3.027	225	64	2.171	ng/ml	96
11) 2-Methylnaphthalene	3.336	142	197	2.049	ng/ml	97
12) 1-Methylnaphthalene	3.393	142	193	2.132	ng/ml	94
14) 2-Chloronaphthalene	3.608	162	203	2.065	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.843	152	273	1.887	ng/ml	98
18) Acenaphthene	3.943	153	199M6	2.049	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.234	166	216	2.063	ng/ml	95
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.554	284	85M6	2.166	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.781	178	296M6	1.933	ng/ml	
27) Anthracene	4.811	178	294M6	1.943	ng/ml	
28) Fluoranthene	5.466	202	329M6	1.981	ng/ml	
29) Pyrene	5.596	202	349M6	2.026	ng/ml	
32) Benzo[a]anthracene	6.339	228	1500M4	2.711	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	6.353	228	304M3	2.152	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.356	149	127M6	30.740	ng/ml	
37) Benzo[b]fluoranthene	7.196	252	244	2.001	ng/ml	99
38) Benzo[k]fluoranthene	7.222	252	239M4	2.059	ng/ml	
39) Benzo[a]pyrene	7.515	252	193	1.920	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.838	276	187M4	1.976	ng/ml	
41) Dibenzo[a,h]anthracene	8.875	278	164M6	1.810	ng/ml	
42) Benzo[g,h,i]perylene	9.188	276	196	2.035	ng/ml	99

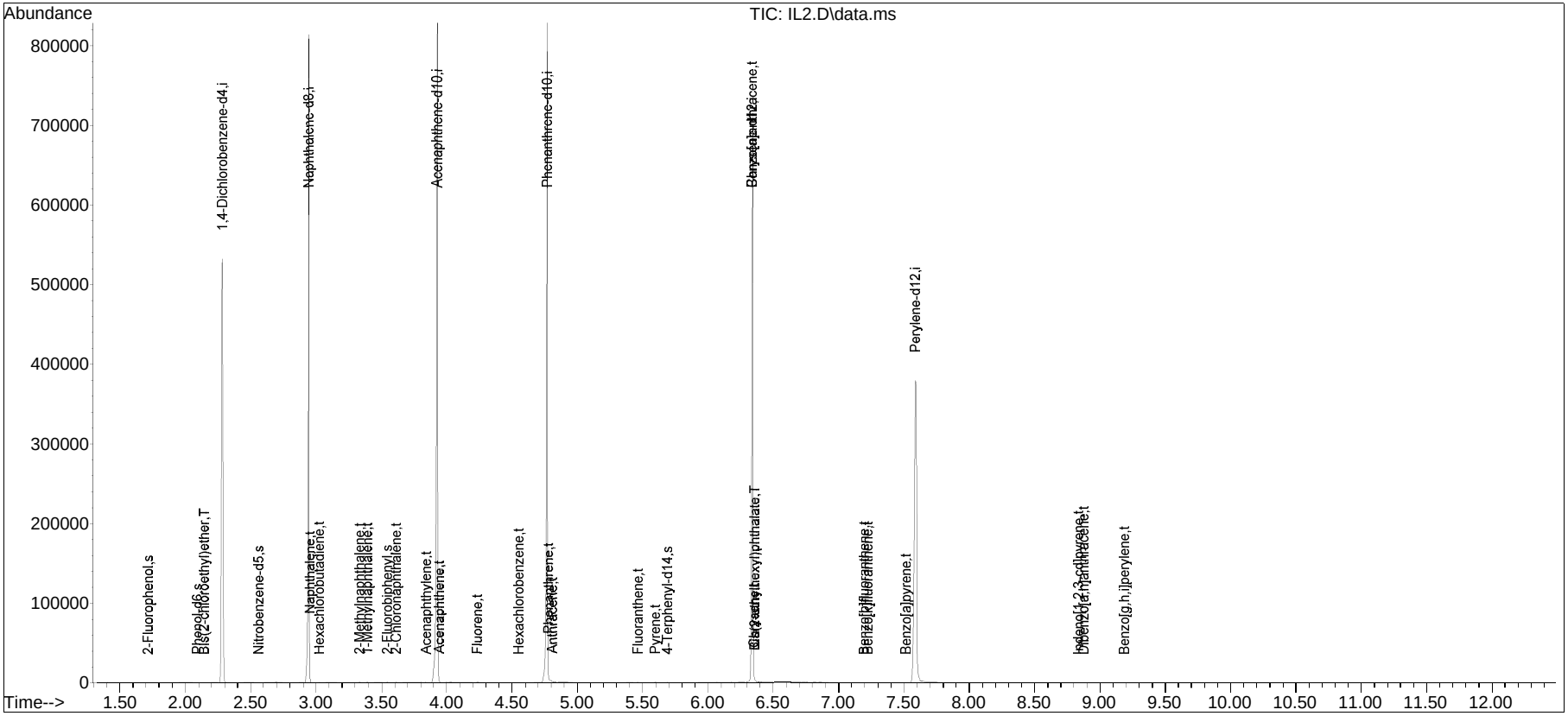
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

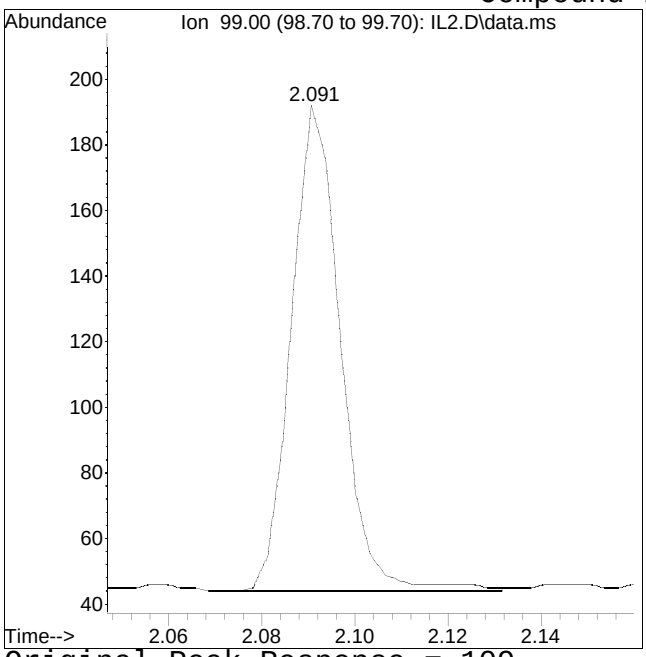
Sub List : Default - All compounds listedical\IL8.D•



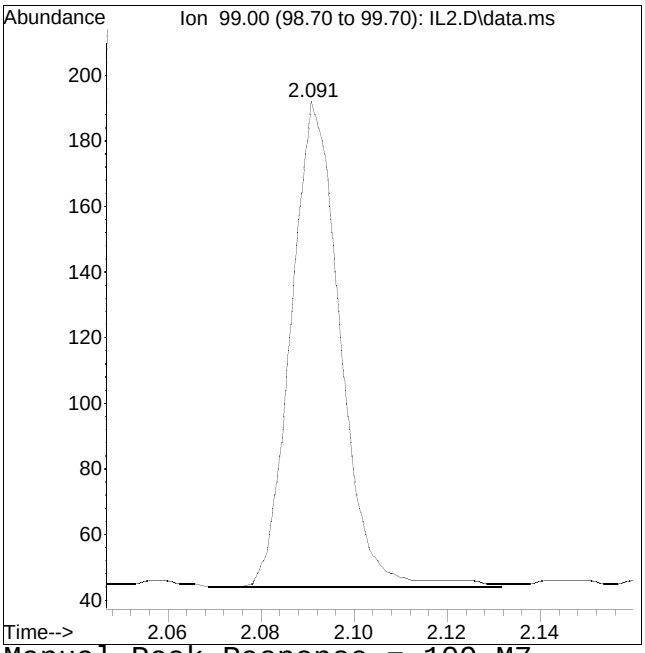
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #3: Phenol-d6



Original Peak Response = 109



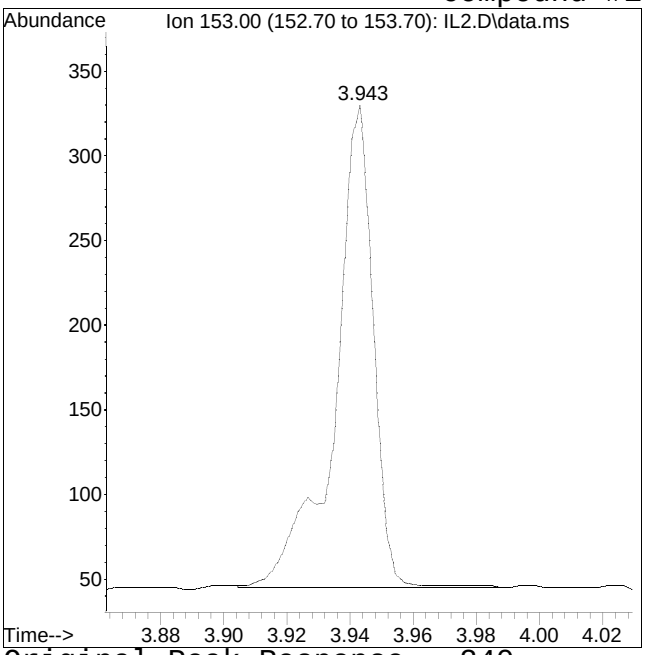
Manual Peak Response = 109 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

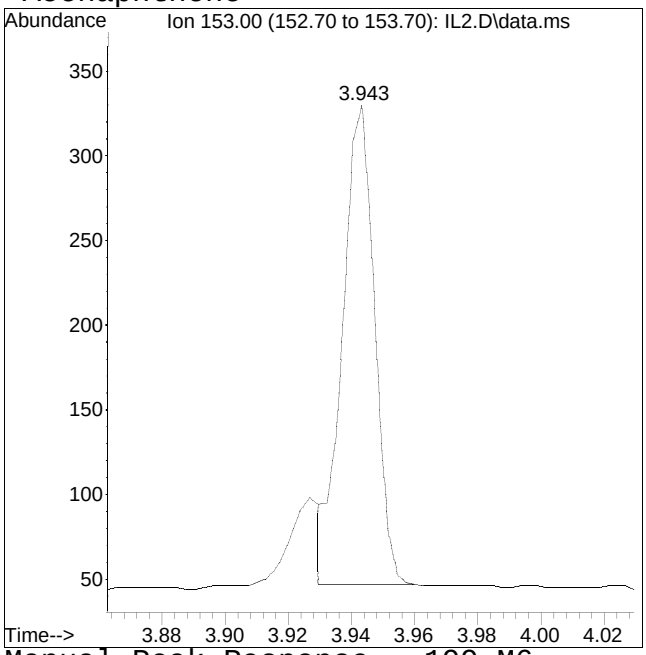
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #18: Acenaphthene



Original Peak Response = 240



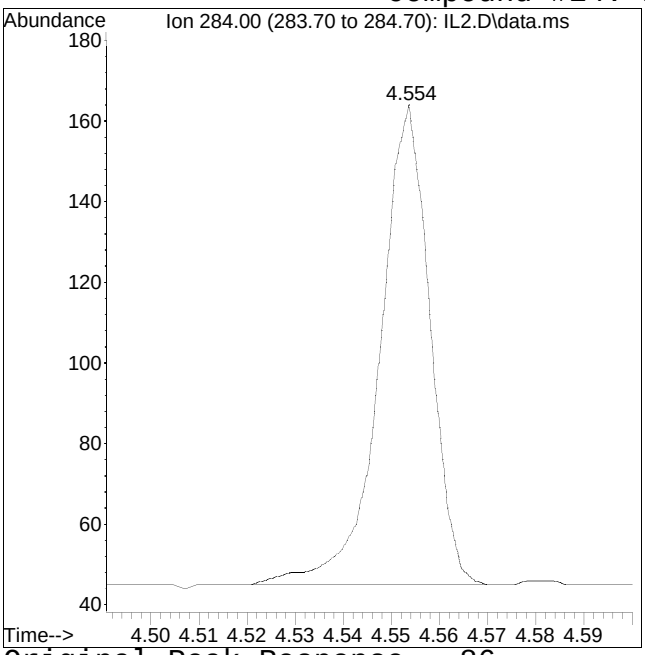
Manual Peak Response = 199 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

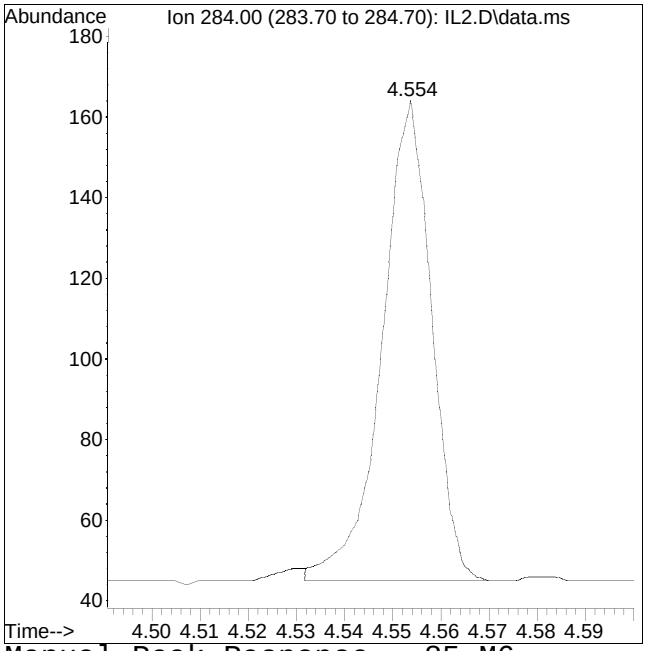
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 86



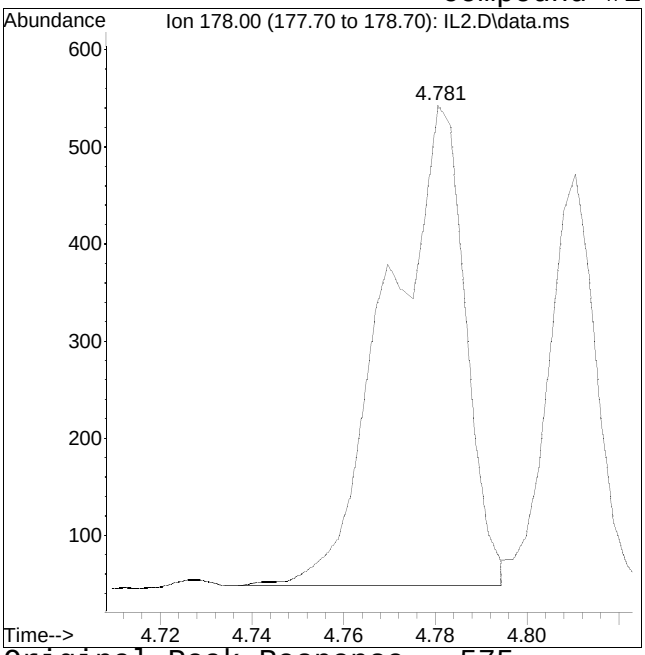
Manual Peak Response = 85 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

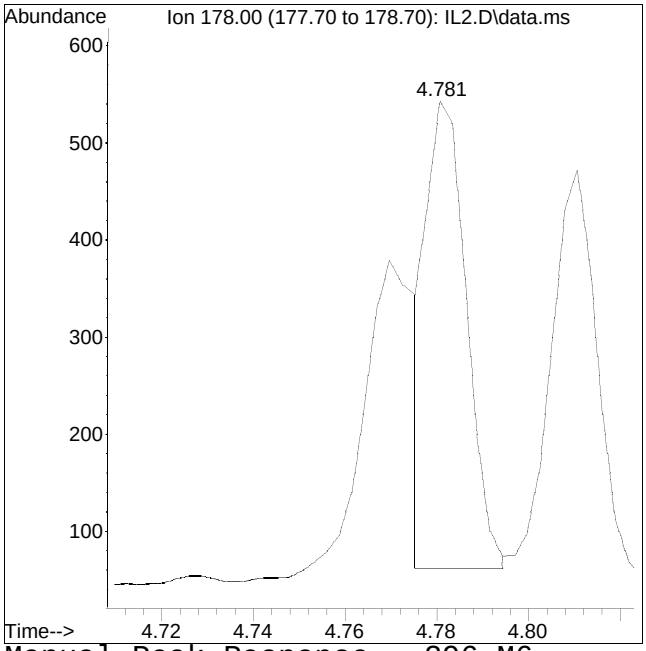
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #26: Phenanthrene



Original Peak Response = 575



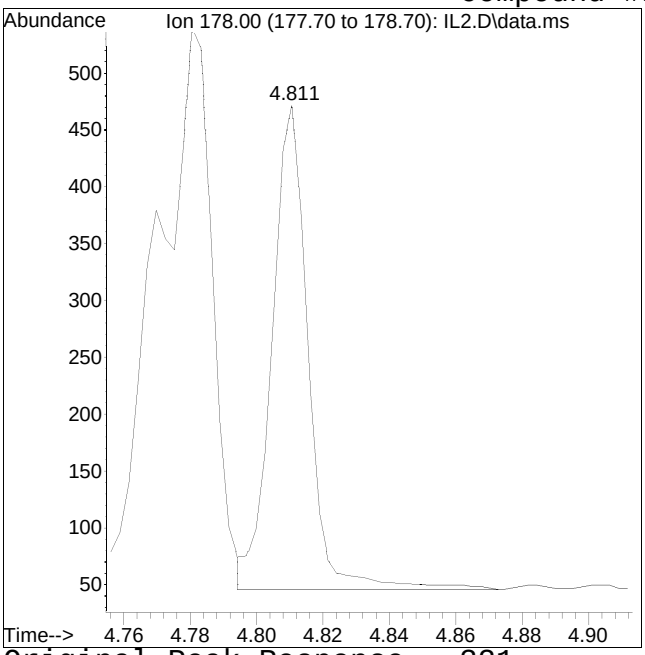
Manual Peak Response = 296 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

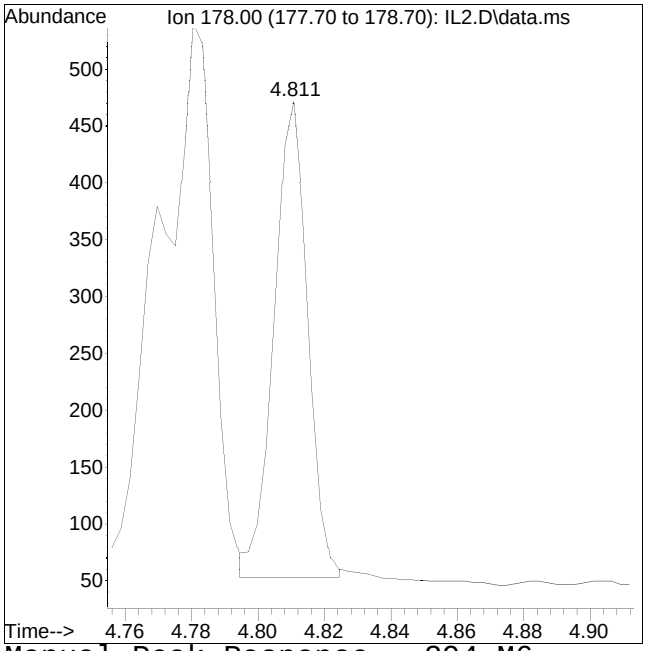
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #27: Anthracene



Original Peak Response = 321



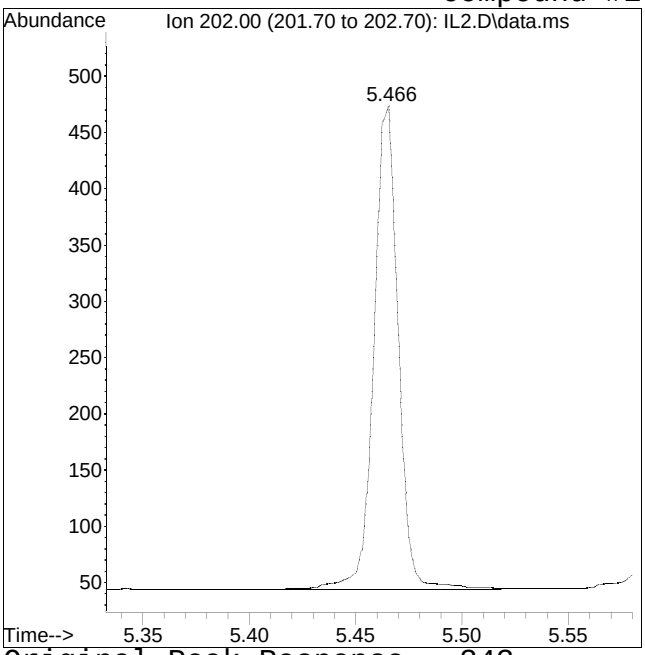
Manual Peak Response = 294 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

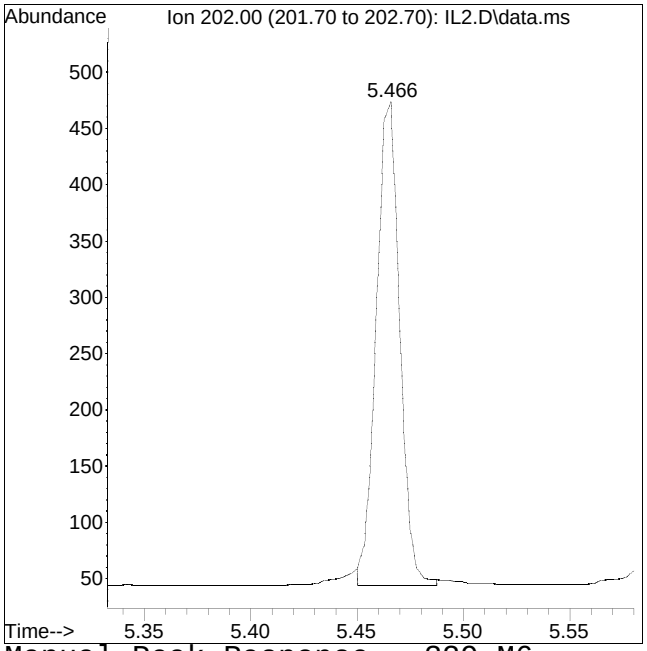
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #28: Fluoranthene



Original Peak Response = 343



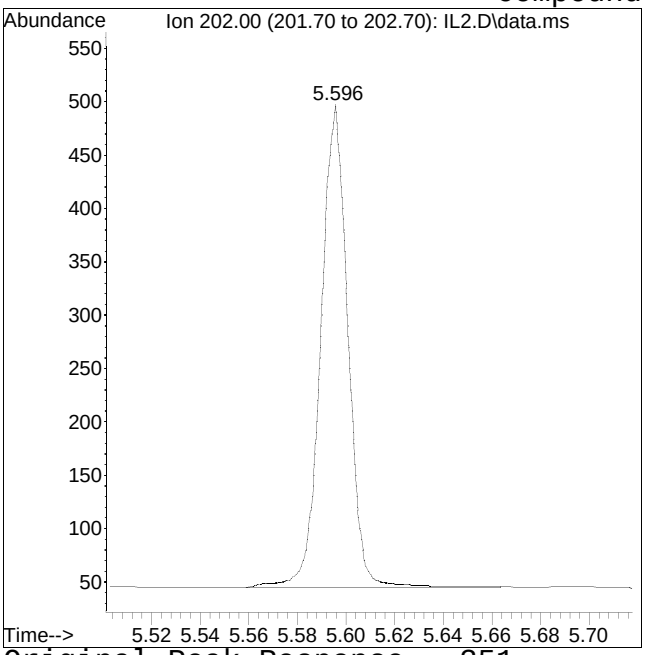
Manual Peak Response = 329 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

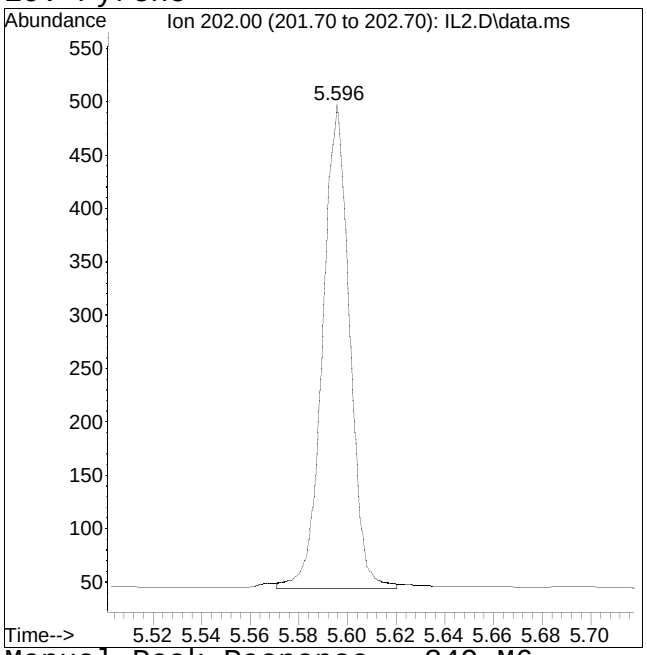
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #29: Pyrene



Original Peak Response = 351



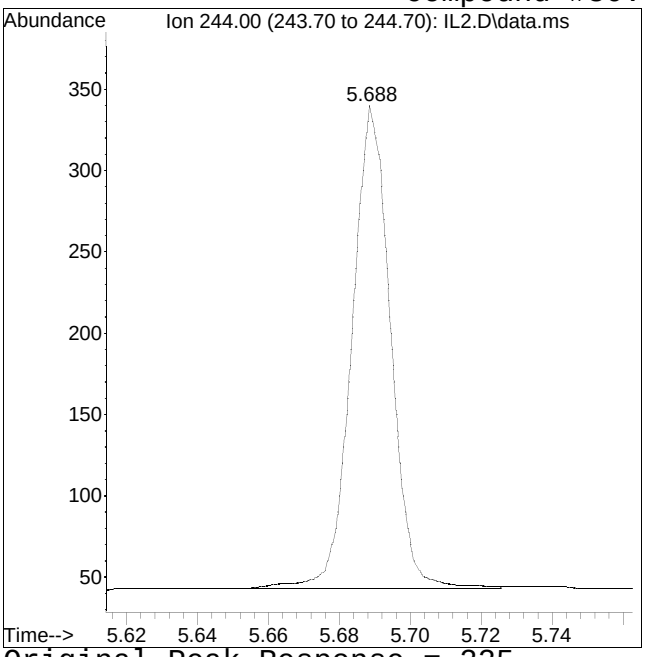
Manual Peak Response = 349 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

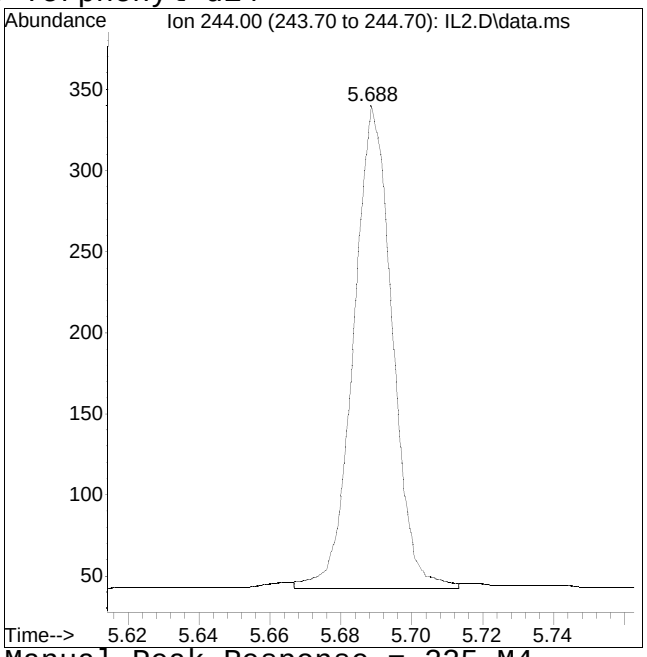
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 225



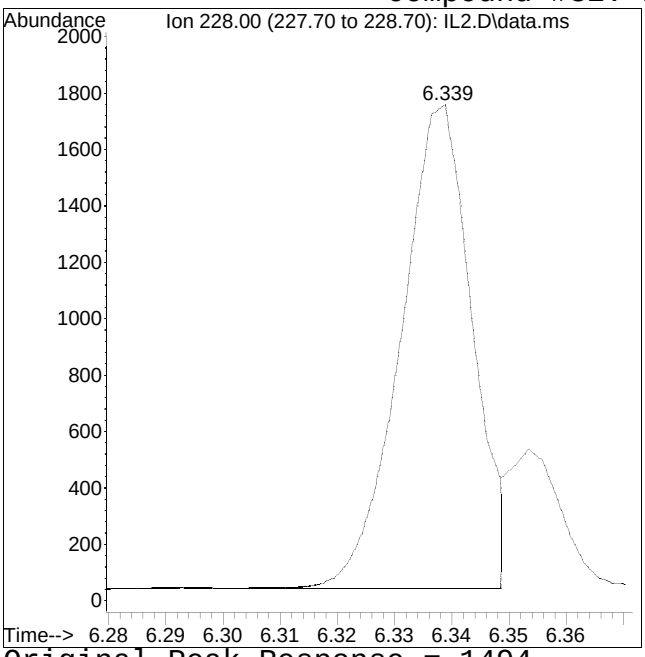
Manual Peak Response = 225 M4

M4 = Poor automated baseline construction.

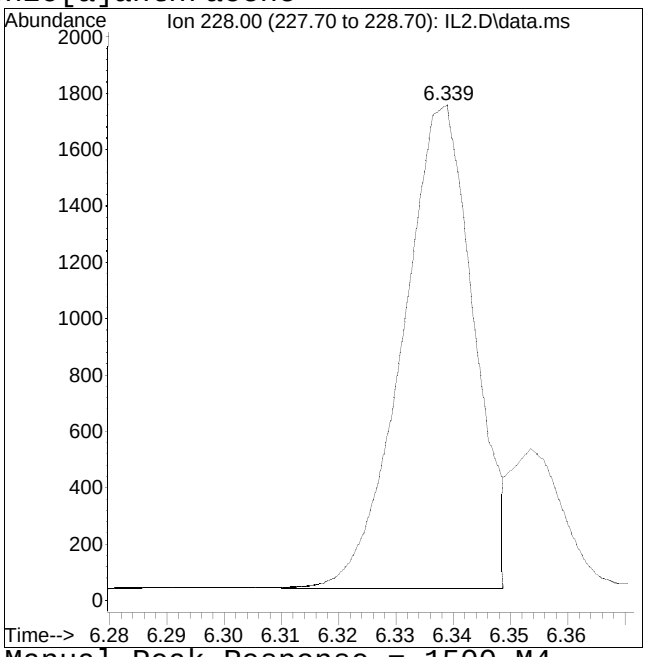
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 1494



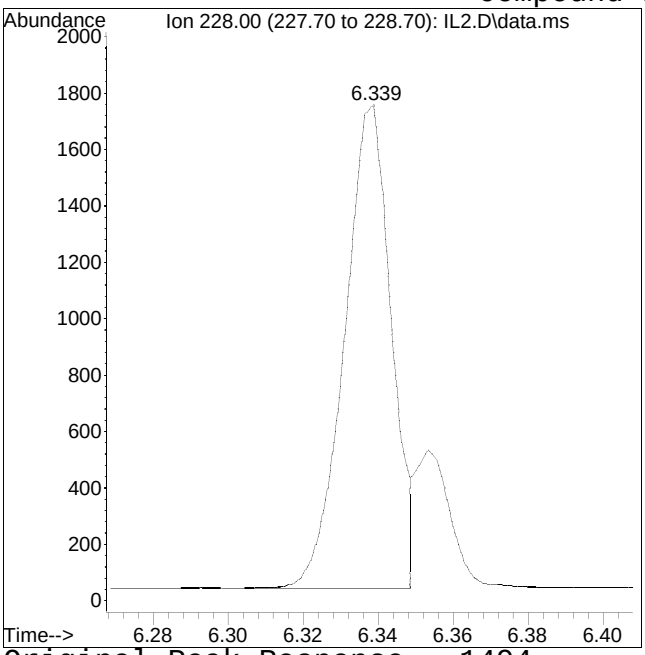
Manual Peak Response = 1500 M4

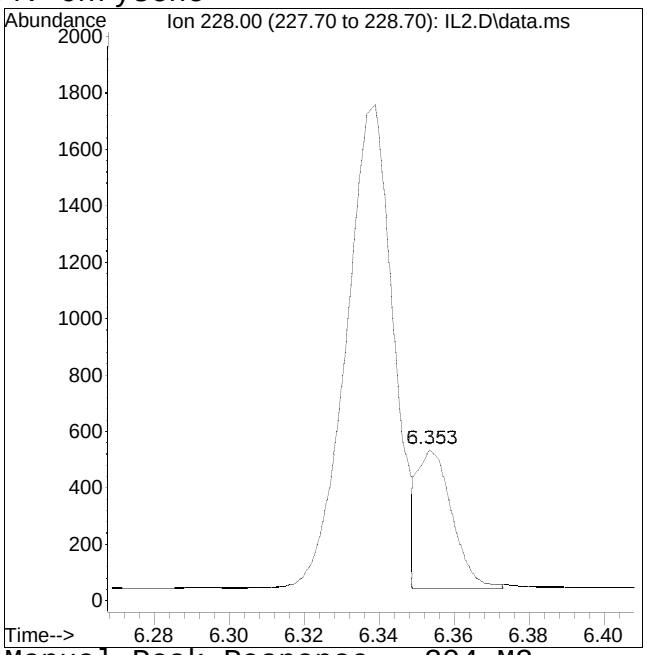
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #34: Chrysene





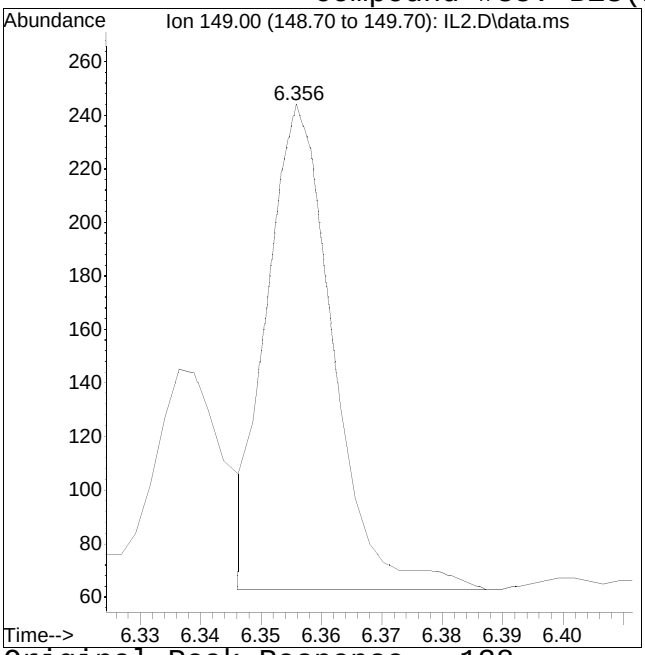
Original Peak Response = 1494 Manual Peak Response = 304 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

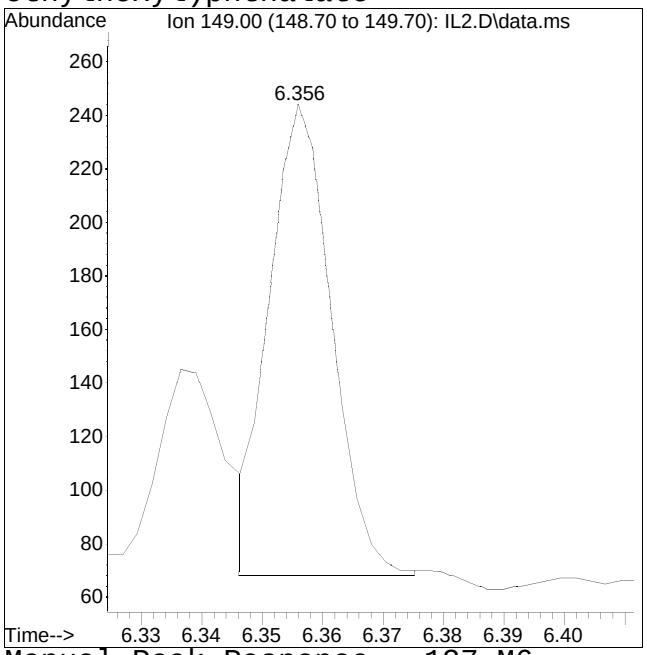
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 138



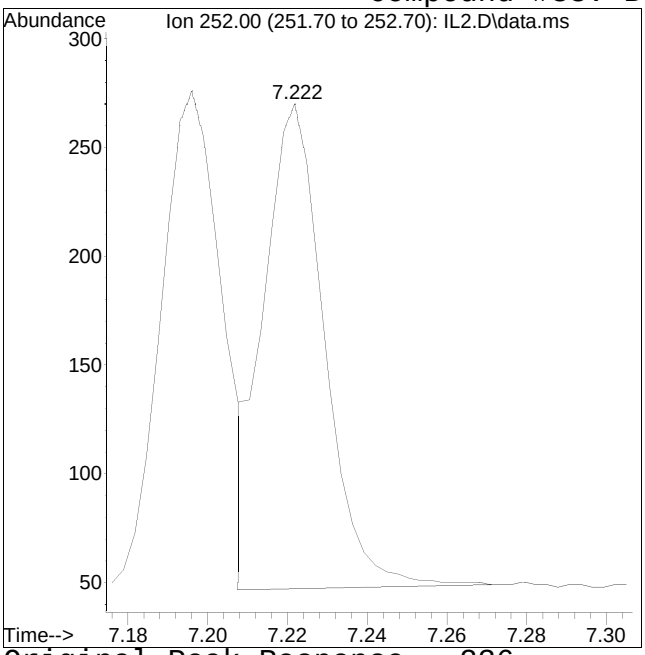
Manual Peak Response = 127 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

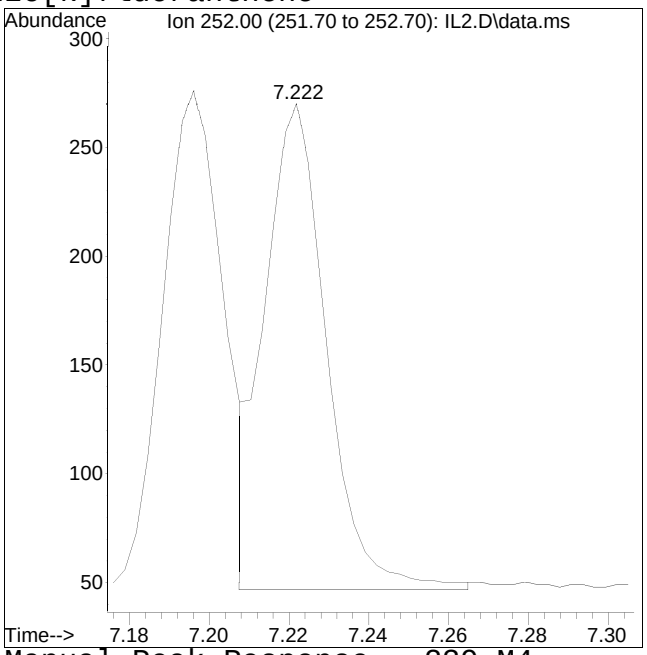
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 236



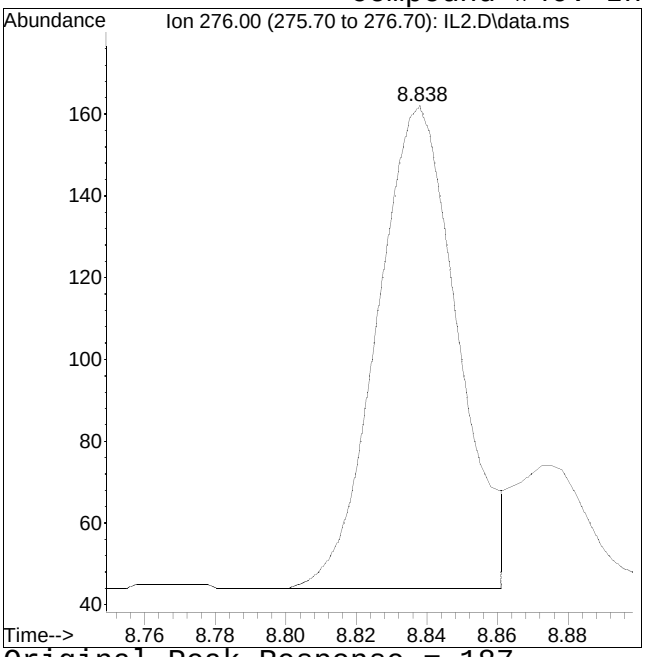
Manual Peak Response = 239 M4

M4 = Poor automated baseline construction.

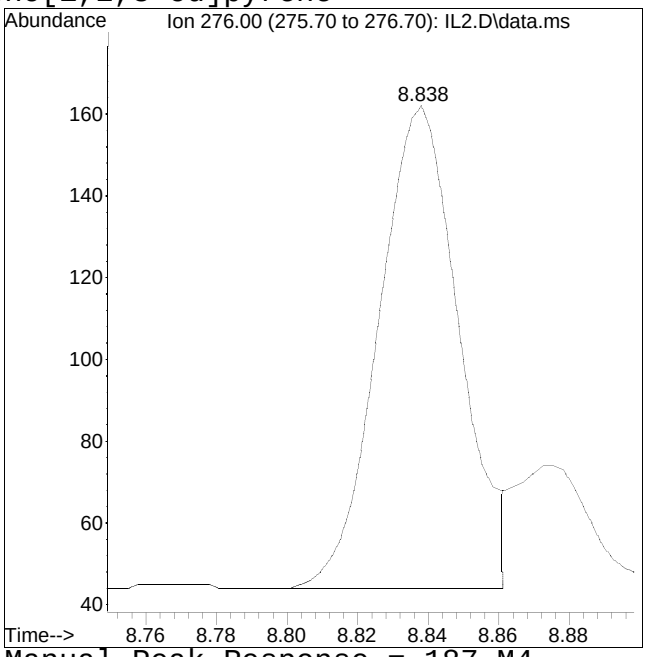
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 187



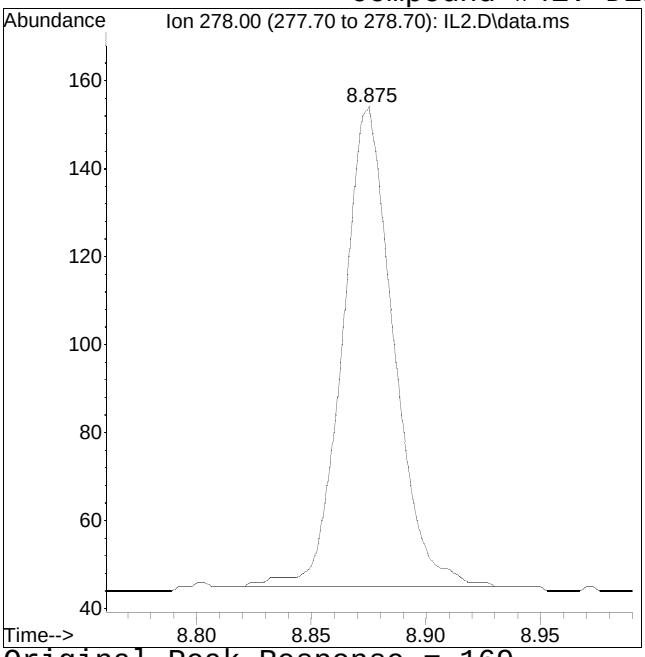
Manual Peak Response = 187 M4

M4 = Poor automated baseline construction.

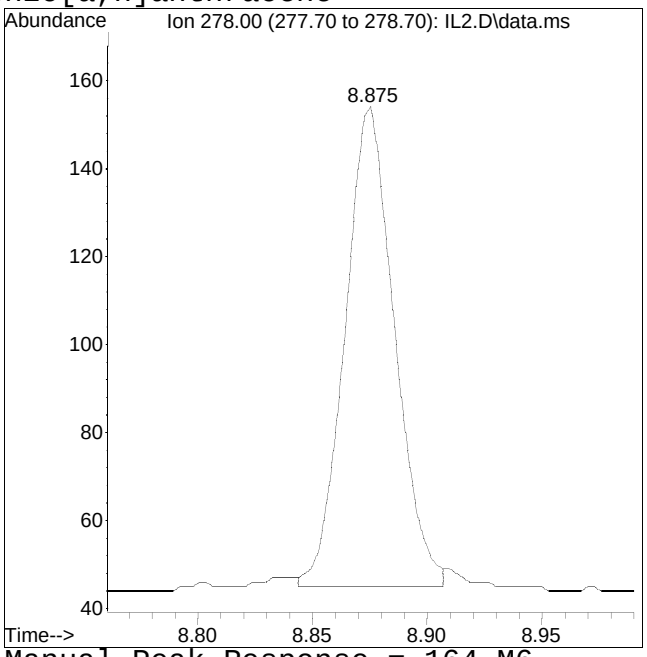
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 169



Manual Peak Response = 164 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	155136	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 85.82%			
8) Naphthalene-d8	2.943	136	561509	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 85.41%			
17) Acenaphthene-d10	3.926	164	299449	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 84.78%			
22) Phenanthrene-d10	4.769	188	599573	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 87.43%			
31) Chrysene-d12	6.337	240	444724	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 87.28%			
36) Perylene-d12	7.585	264	408019	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 82.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	0.000	82	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.00%#			
13) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.00%#			
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	0.000	244	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
5) n-nitrosodi-n-propylamine	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.954	128	182M4	1.147	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.336	142	99	1.000	ng/ml	96
12) 1-Methylnaphthalene	3.393	142	97	1.041	ng/ml	98
14) 2-Chloronaphthalene	0.000		0	N.D. d		
15) 2,6-Dinitrotoluene	0.000		0	N.D.		
16) Acenaphthylene	3.843	152	144M6	0.964	ng/ml	
18) Acenaphthene	3.943	153	107M7	1.032	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.235	166	120	1.084	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.553	284	48M4	1.110	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.782	178	154M6	0.911	ng/ml	
27) Anthracene	4.810	178	187M6	1.119	ng/ml	
28) Fluoranthene	5.464	202	209M6	1.136	ng/ml	
29) Pyrene	5.594	202	214	1.128	ng/ml	97
32) Benzo[a]anthracene	6.337	228	1511M6	1.250	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.351	228	157M3	0.974	ng/ml	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	7.192	252	155M4	1.151	ng/ml	
38) Benzo[k]fluoranthene	7.218	252	131M6	1.017	ng/ml	
39) Benzo[a]pyrene	7.517	252	119M4	1.074	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.834	276	105M4	1.002	ng/ml	
41) Dibenzo[a,h]anthracene	8.874	278	96M6	0.947	ng/ml	
42) Benzo[g,h,i]perylene	9.187	276	108M4	1.014	ng/ml	

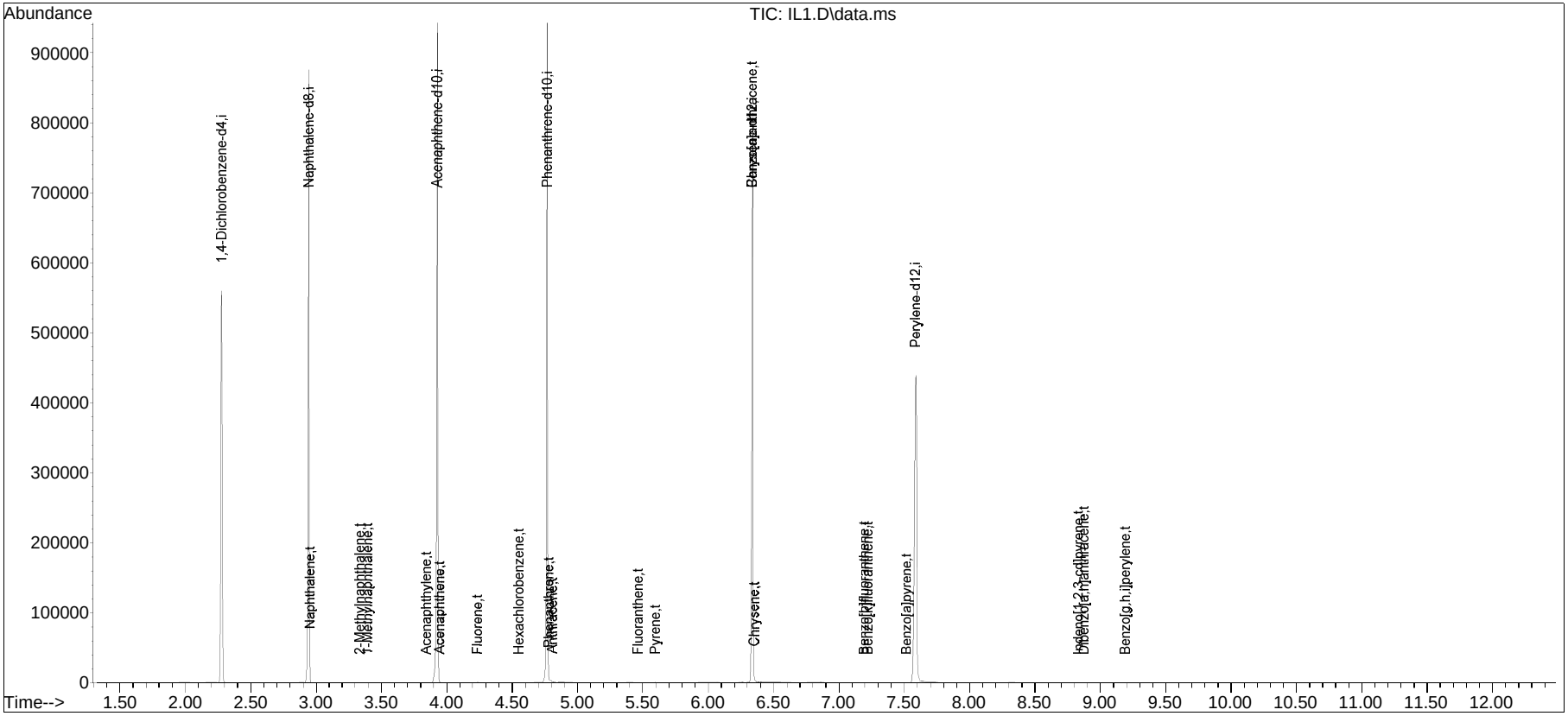
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

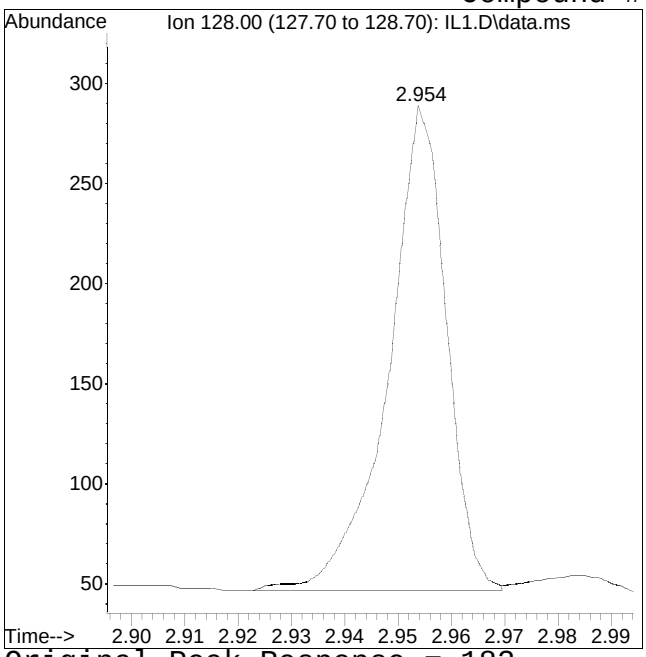
Sub List : Default - All compounds listedical\IL8.D•



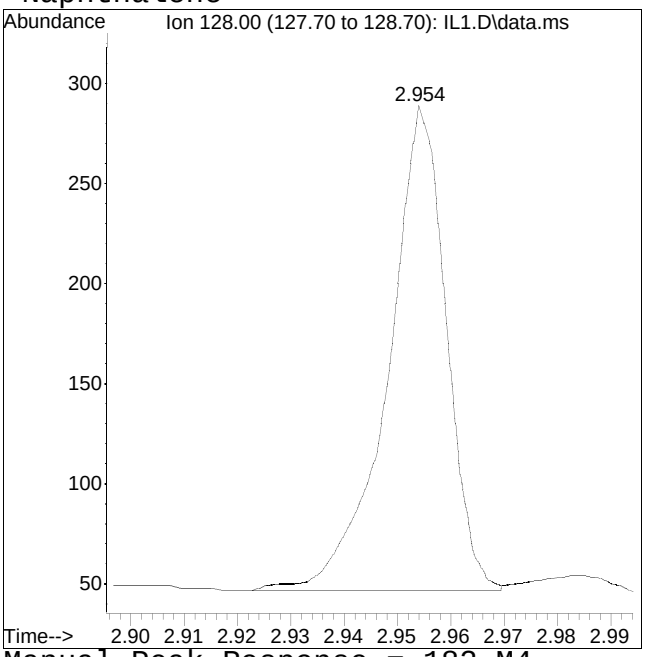
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #9: Naphthalene



Original Peak Response = 182



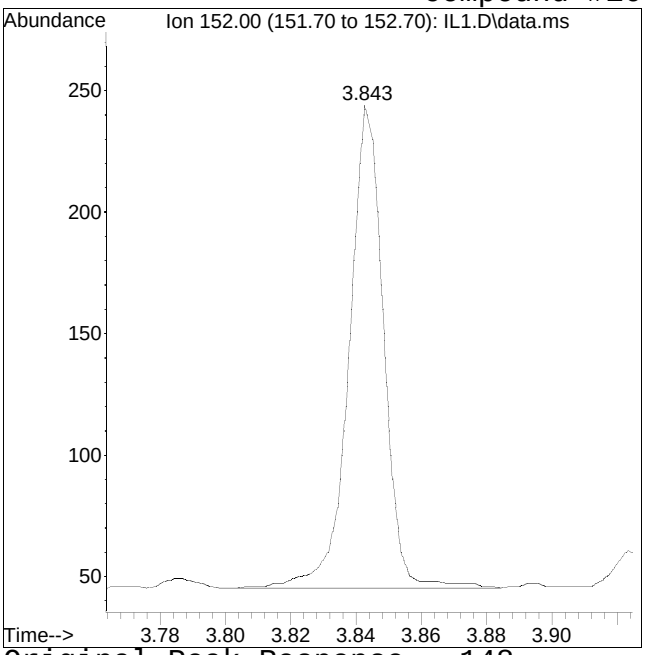
Manual Peak Response = 182 M4

M4 = Poor automated baseline construction.

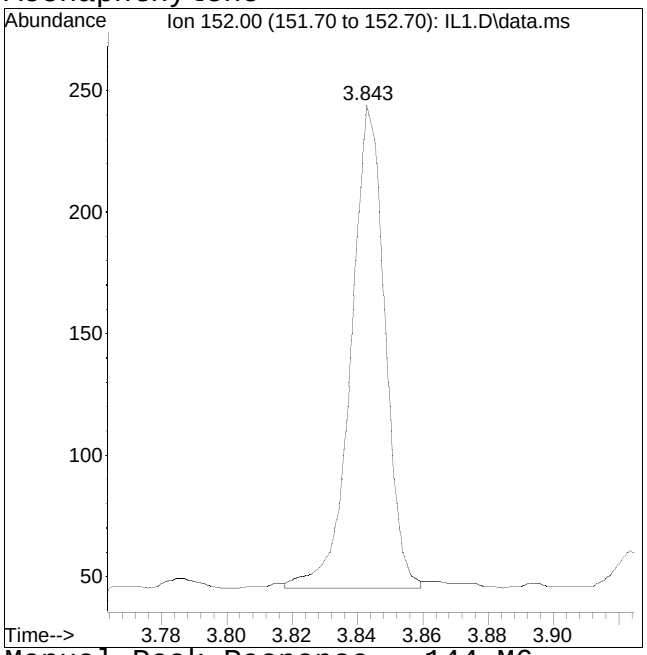
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #16: Acenaphthylene



Original Peak Response = 148



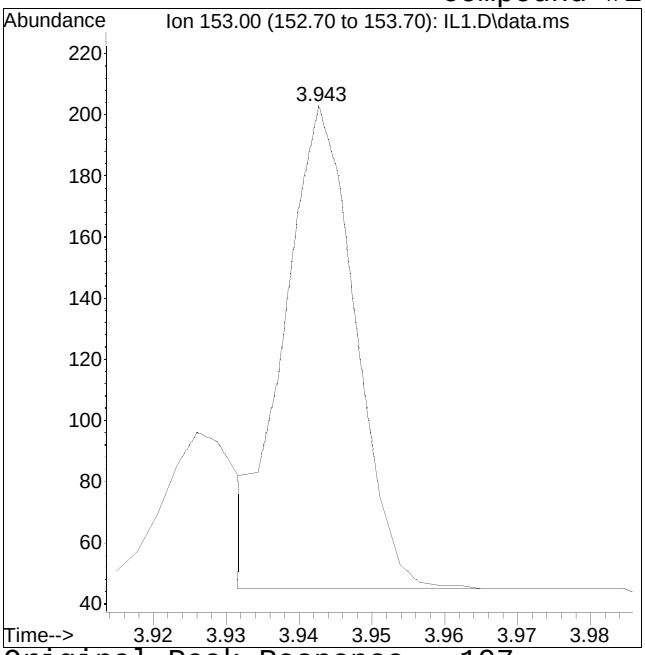
Manual Peak Response = 144 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

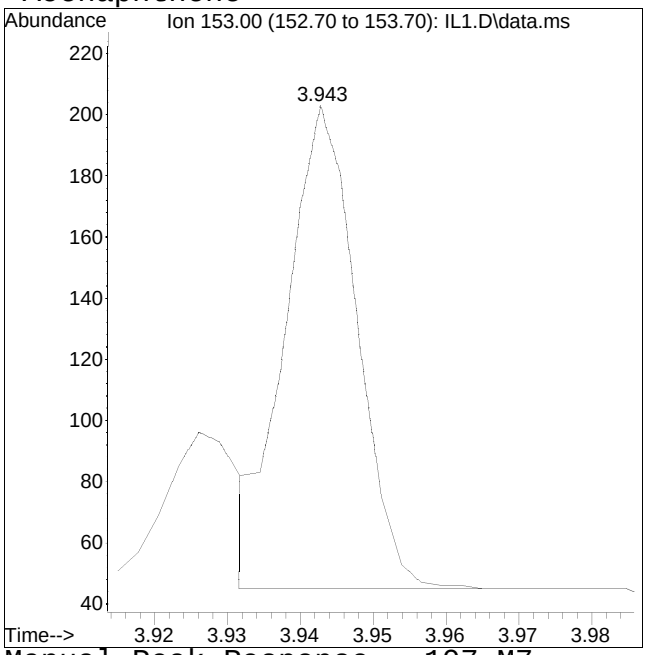
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #18: Acenaphthene



Original Peak Response = 107



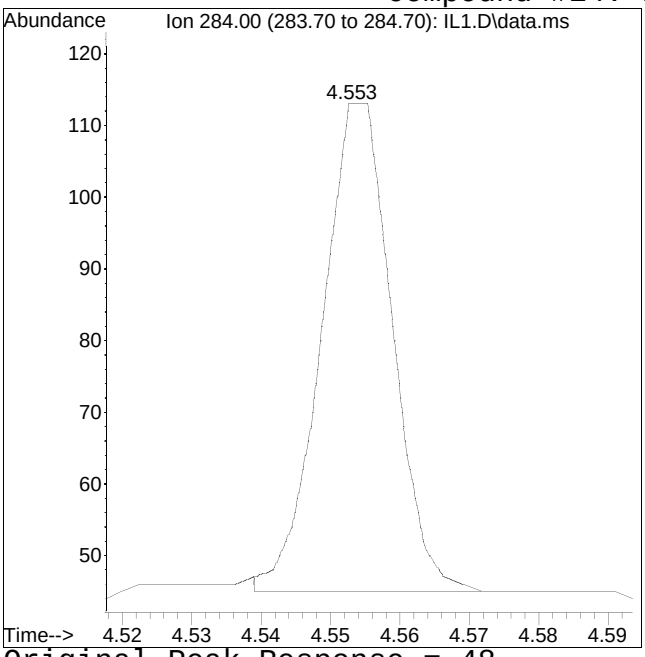
Manual Peak Response = 107 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

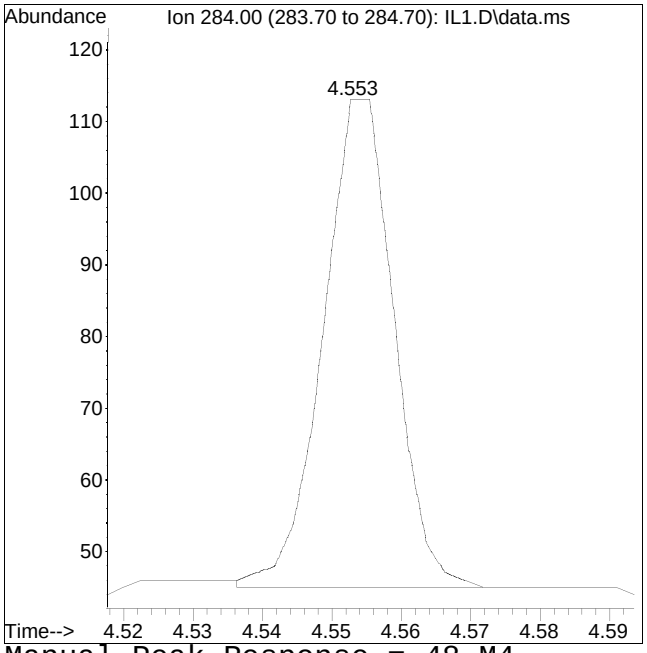
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 48



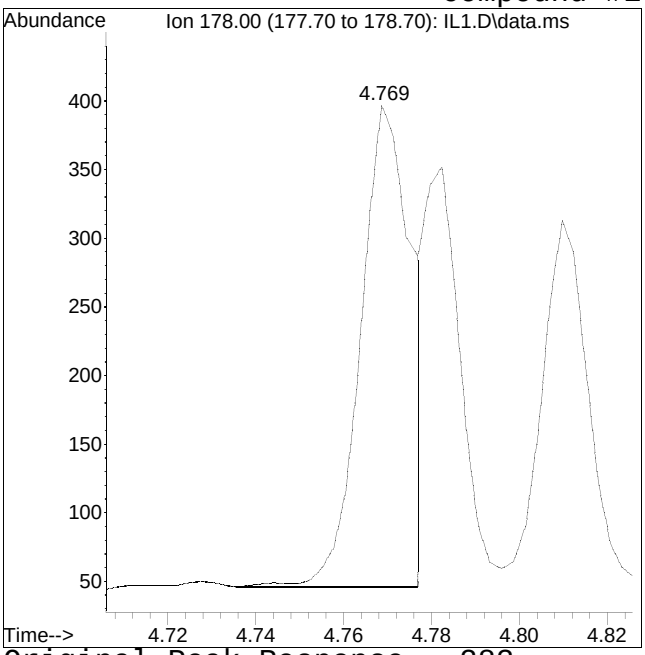
Manual Peak Response = 48 M4

M4 = Poor automated baseline construction.

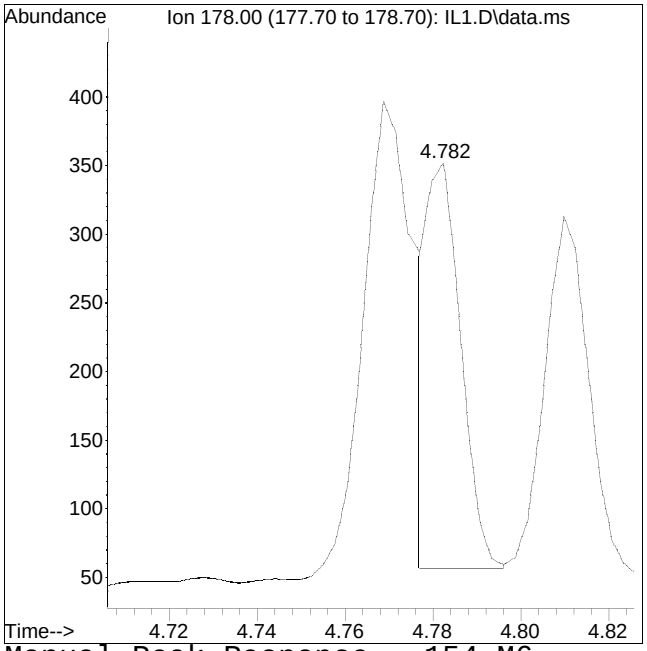
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #26: Phenanthrene



Original Peak Response = 283



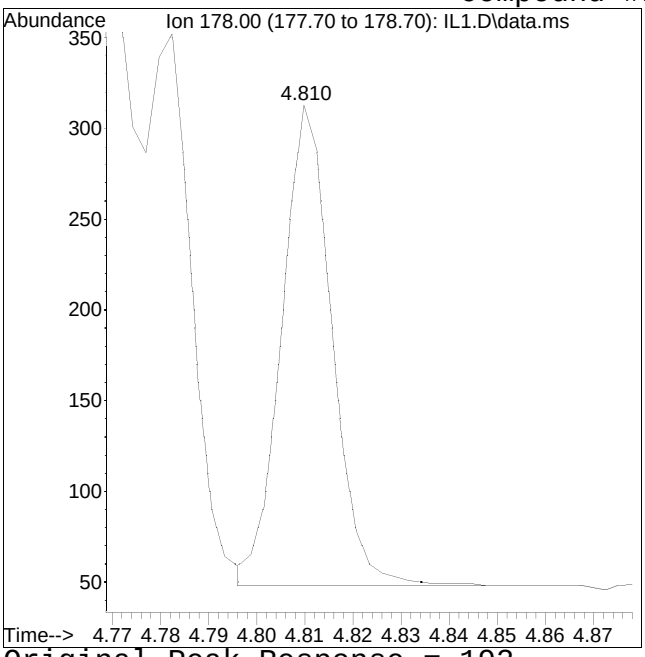
Manual Peak Response = 154 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

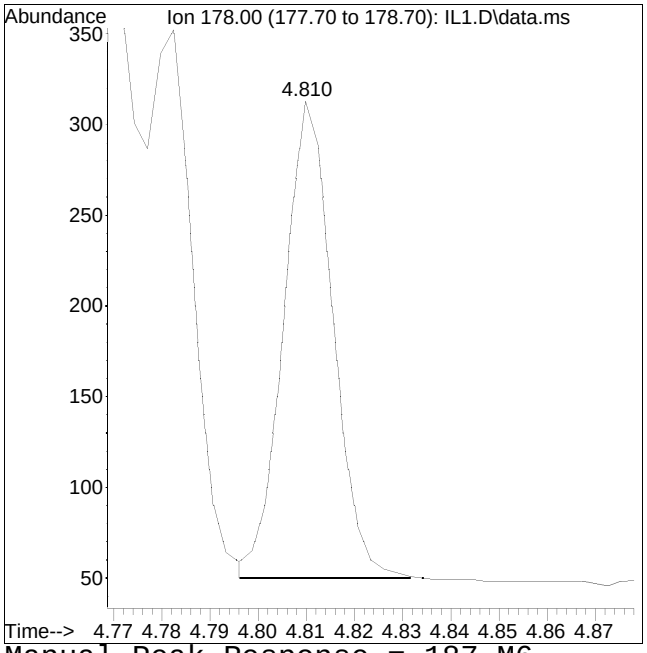
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #27: Anthracene



Original Peak Response = 192



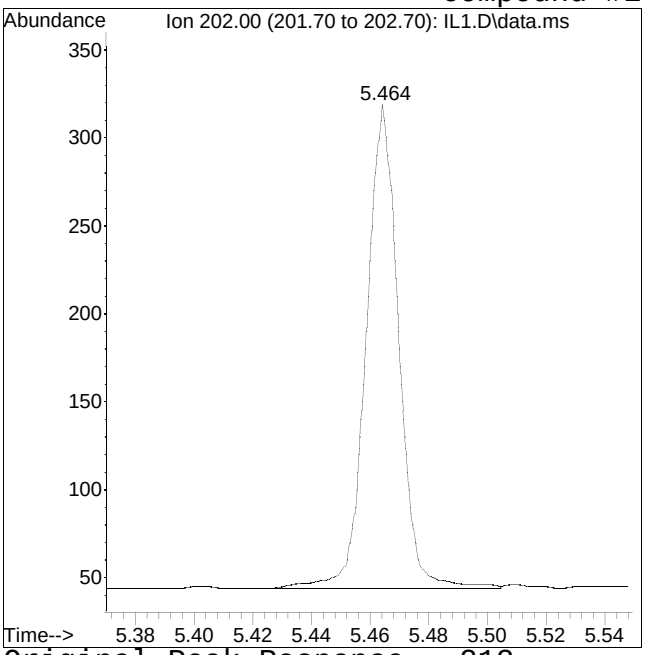
Manual Peak Response = 187 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

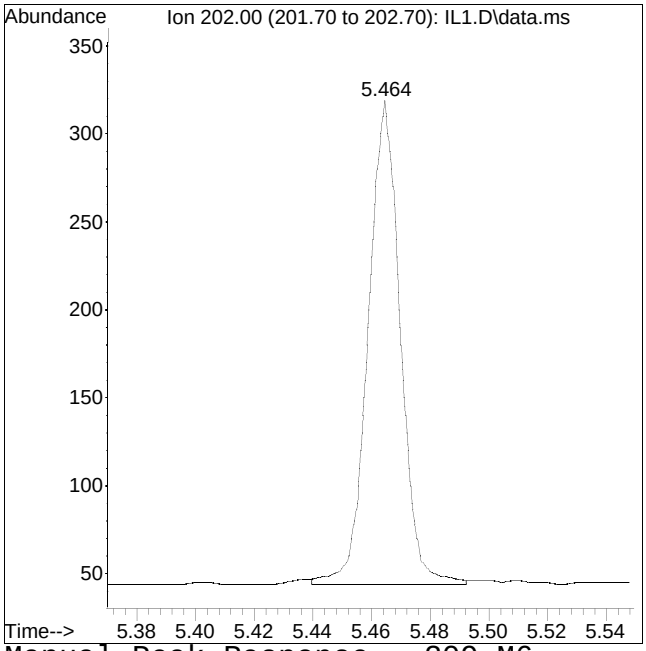
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #28: Fluoranthene



Original Peak Response = 212



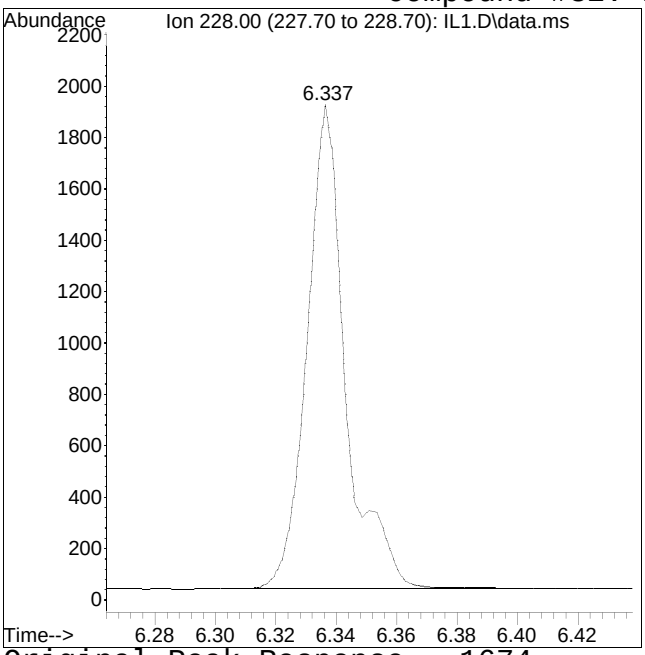
Manual Peak Response = 209 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

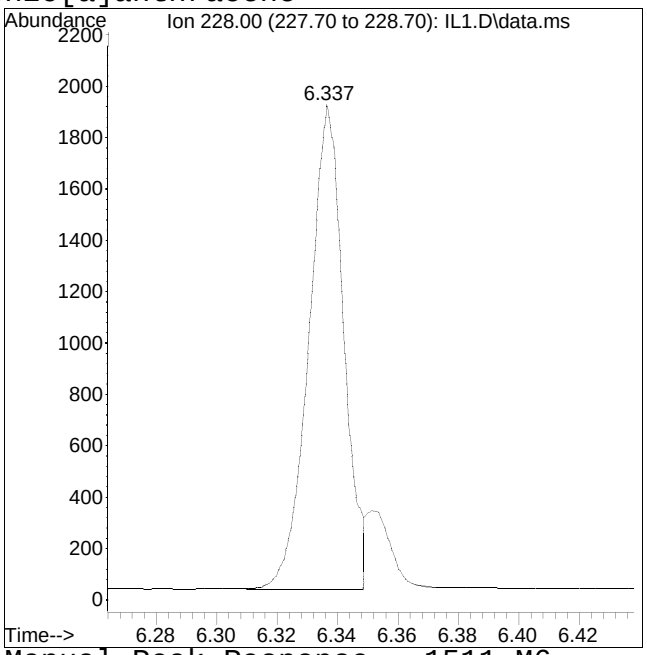
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 1674



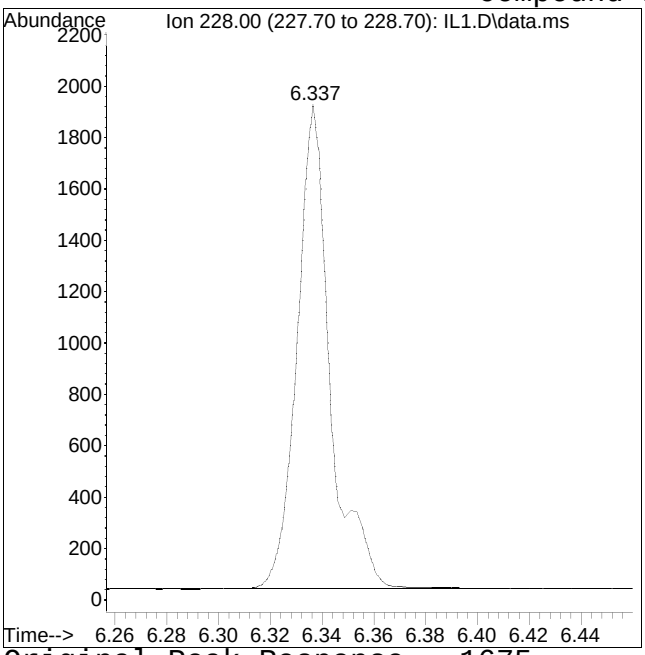
Manual Peak Response = 1511 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

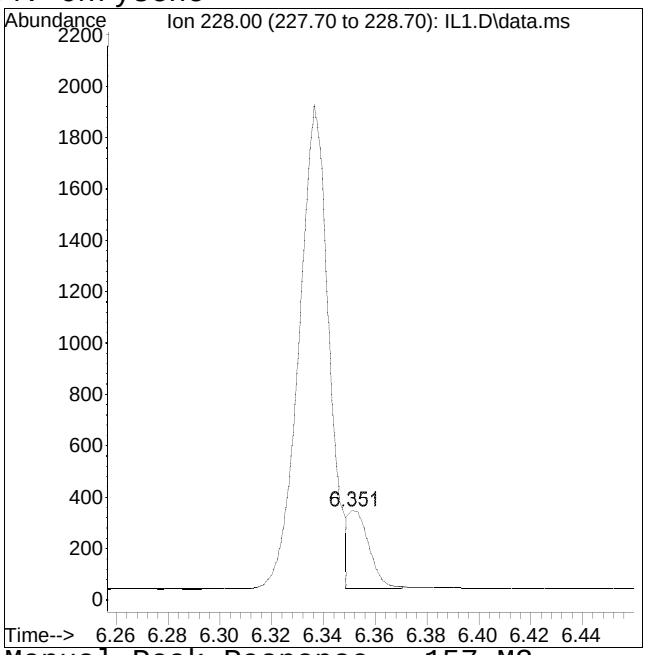
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #34: Chrysene



Original Peak Response = 1675



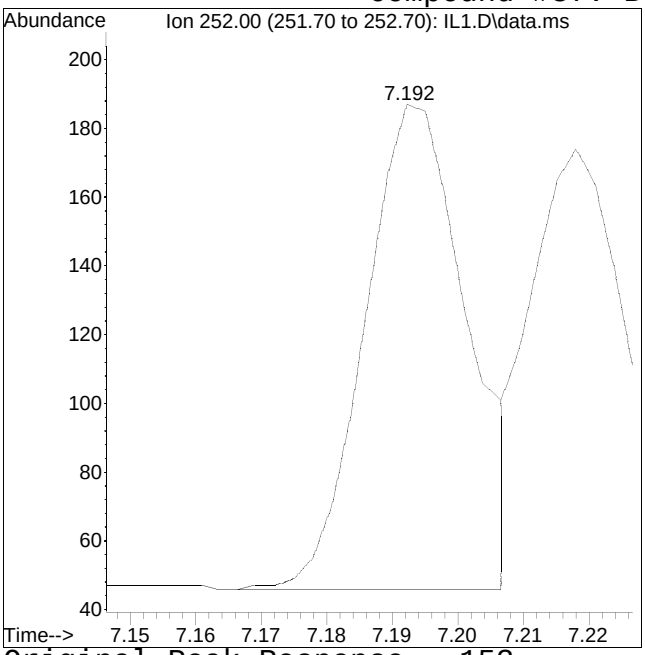
Manual Peak Response = 157 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

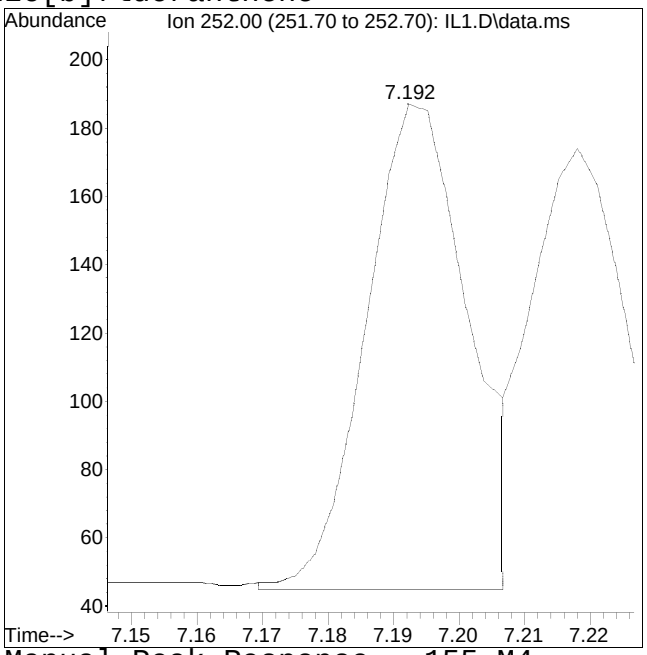
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 153



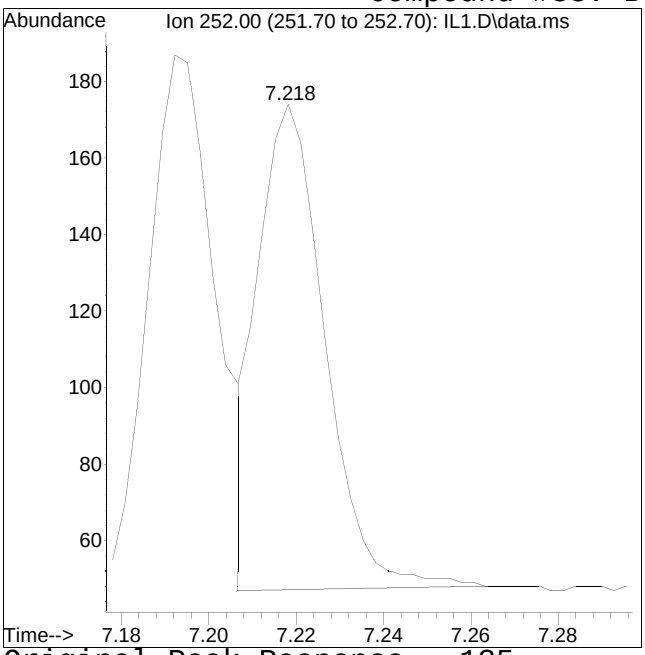
Manual Peak Response = 155 M4

M4 = Poor automated baseline construction.

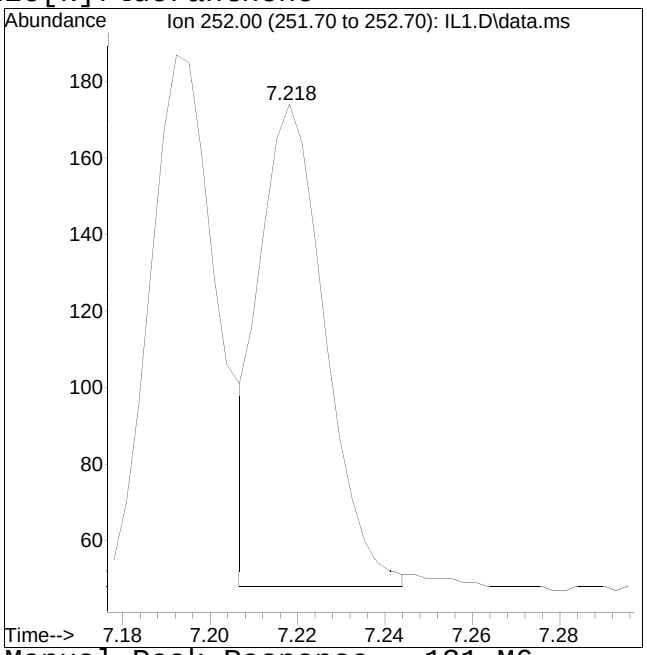
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 135



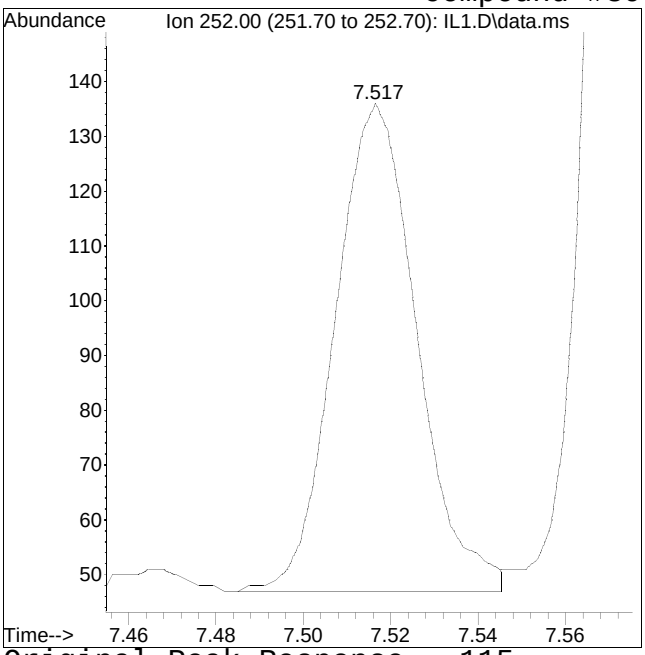
Manual Peak Response = 131 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

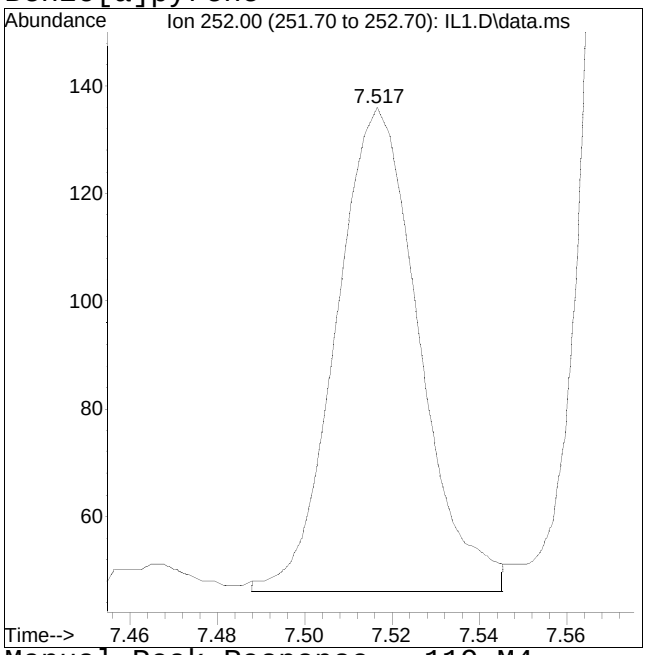
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL1.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:48 pm Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1075Quant Date : 5/29/2024 1:00 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 115



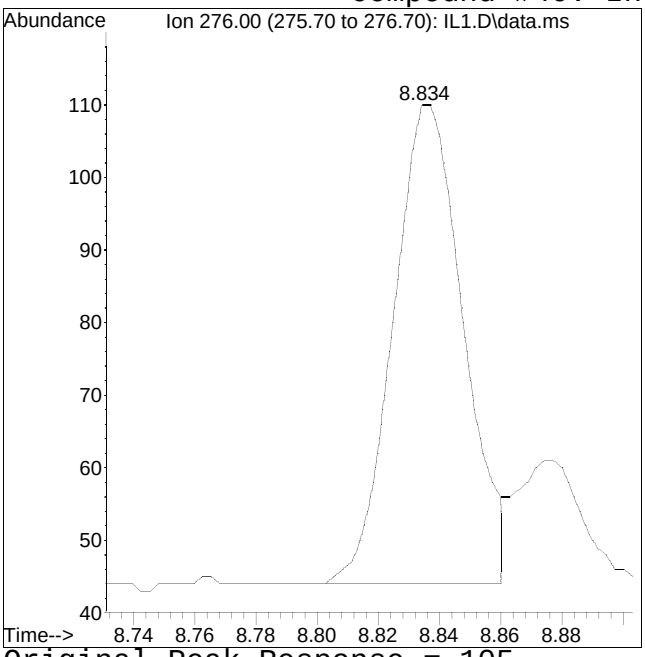
Manual Peak Response = 119 M4

M4 = Poor automated baseline construction.

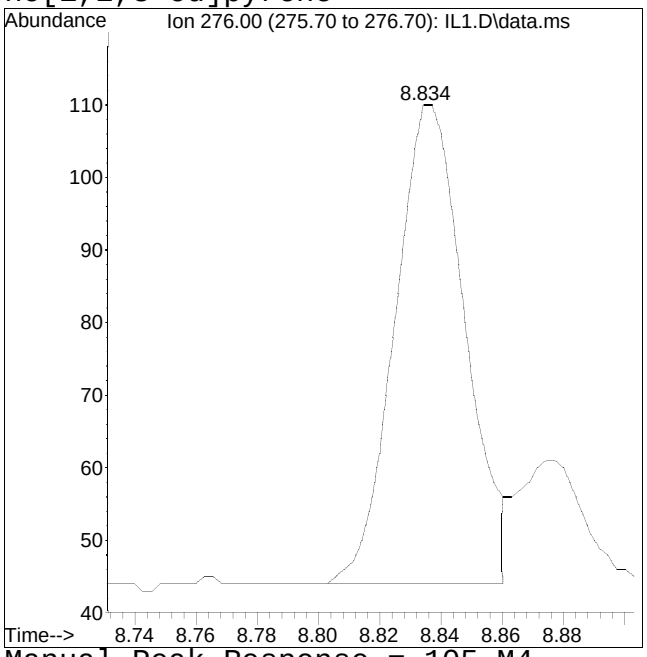
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 105



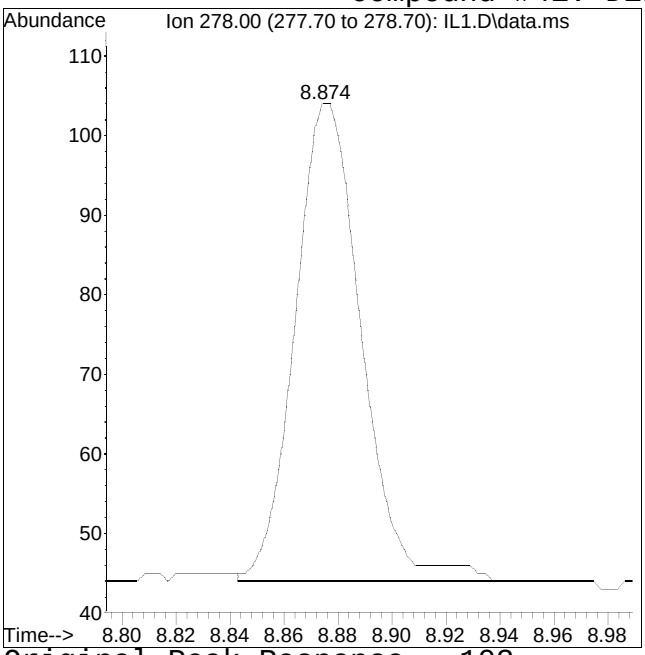
Manual Peak Response = 105 M4

M4 = Poor automated baseline construction.

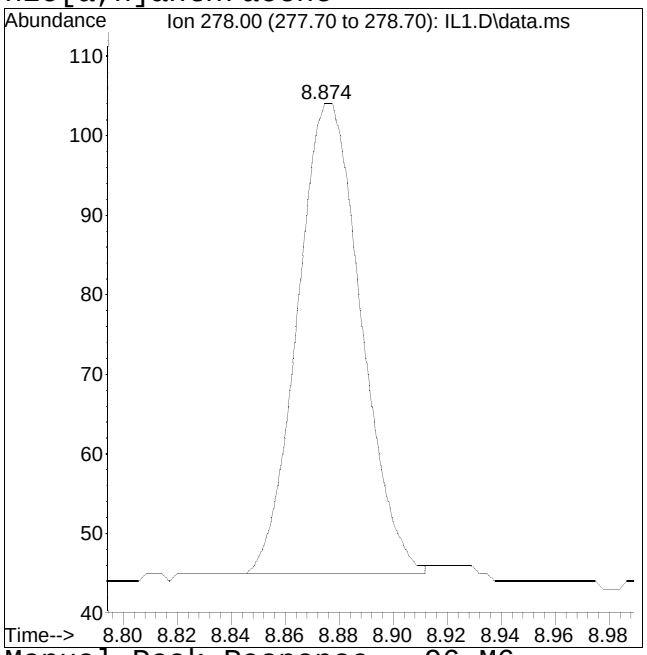
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 103



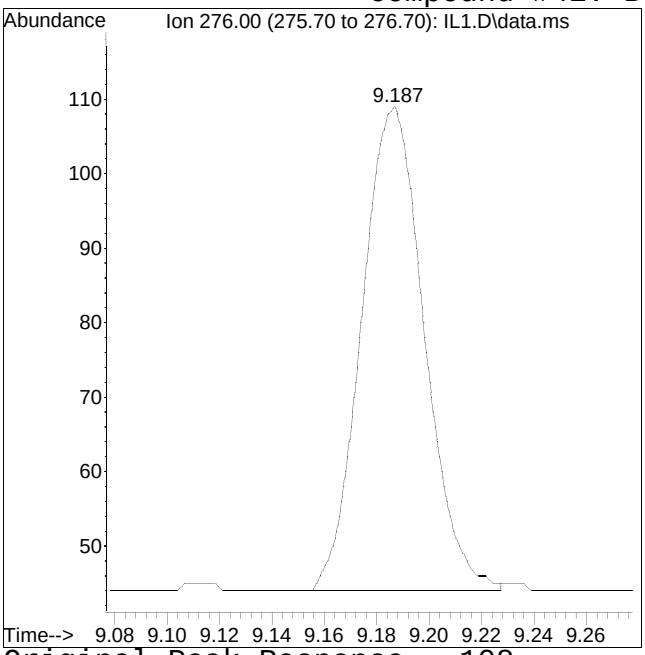
Manual Peak Response = 96 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

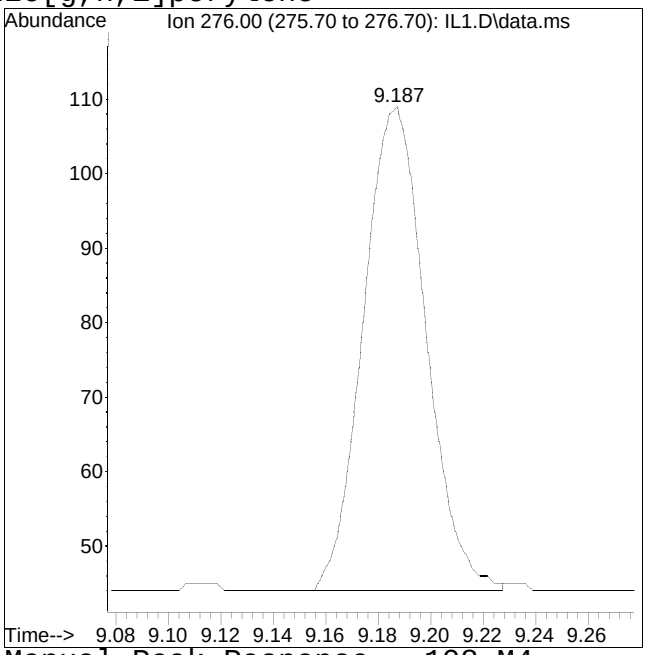
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 108



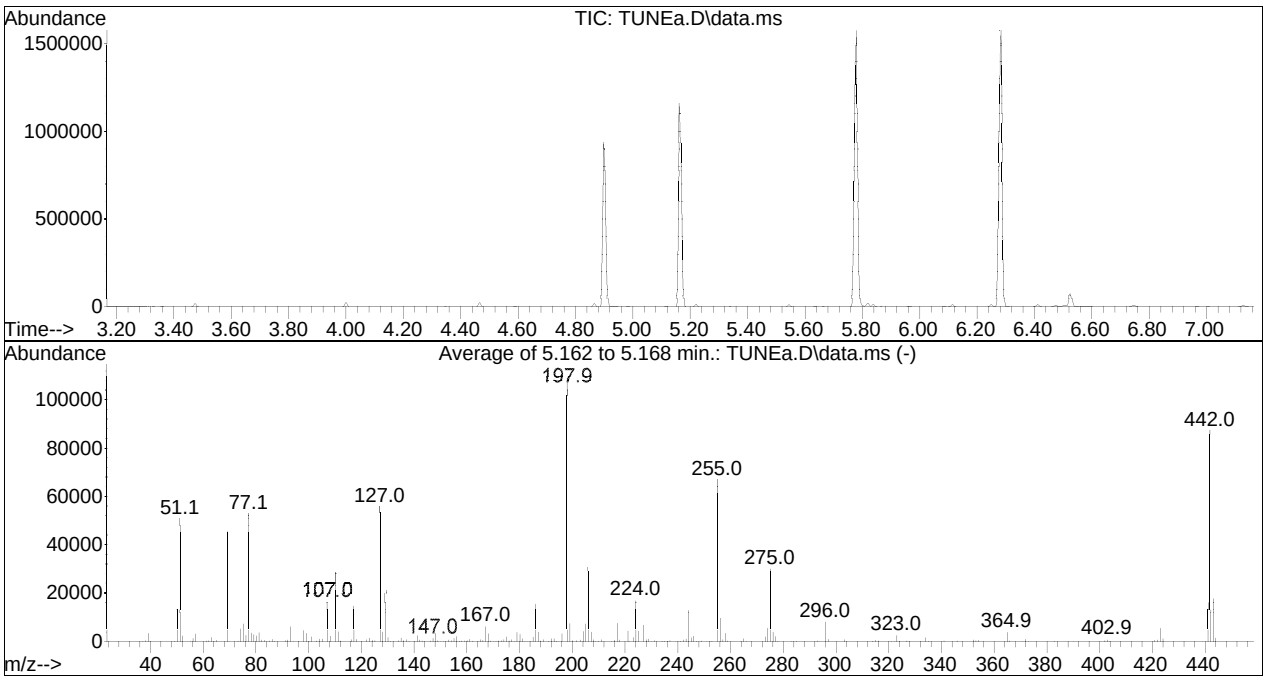
Manual Peak Response = 108 M4

M4 = Poor automated baseline construction.

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed May 29 13:17:11 2024



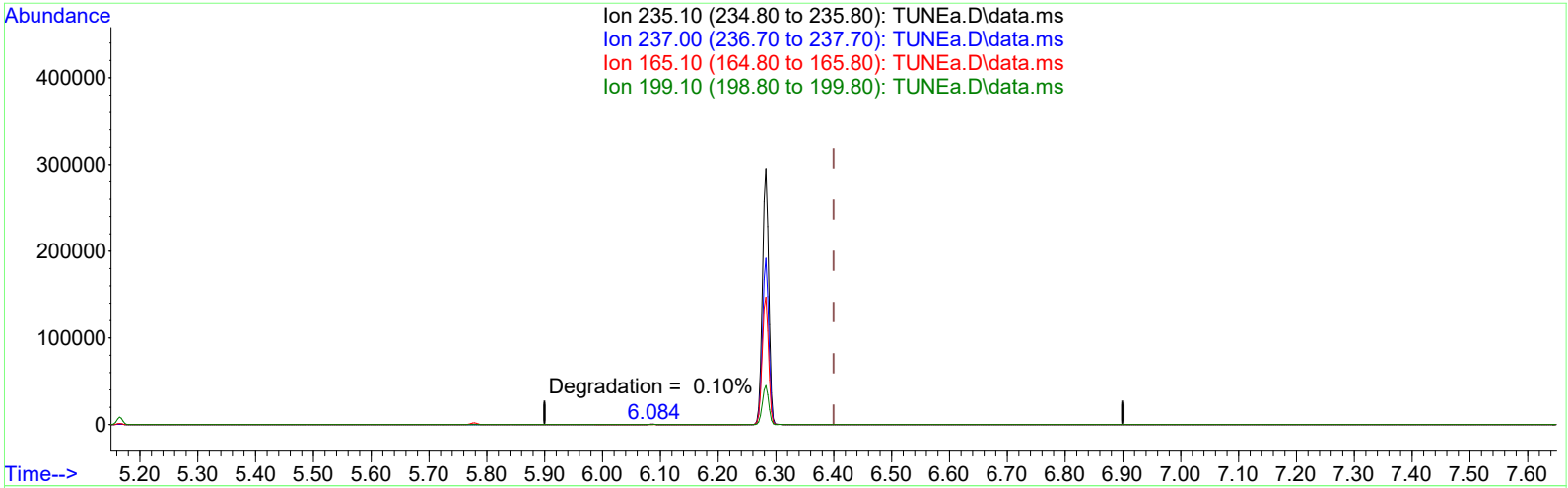
Spectrum Information: Average of 5.162 to 5.168 min.

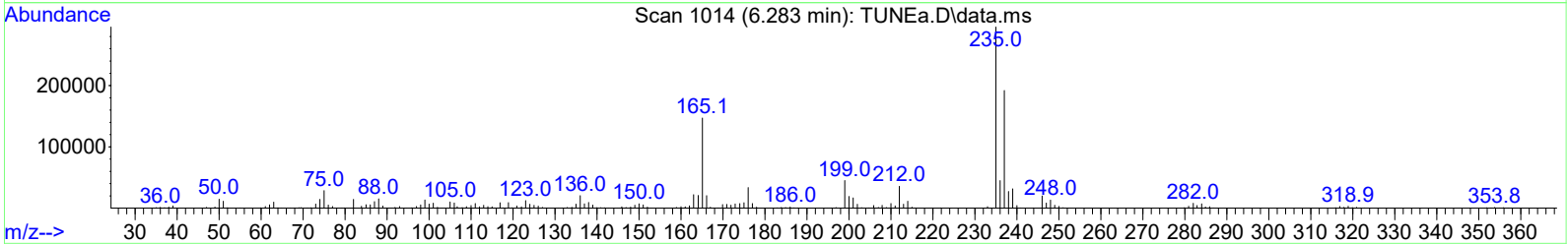
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.4	50643	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	45443	PASS
70	69	0.00	2	0.4	188	PASS
127	198	10	80	51.0	55709	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	109139	PASS
199	198	5	9	6.8	7464	PASS
275	198	10	60	27.5	30013	PASS
365	198	1	100	3.6	3976	PASS
441	442	0.01	24	18.1	15825	PASS
442	198	50	100	79.9	87235	PASS
443	442	15	24	20.4	17828	PASS

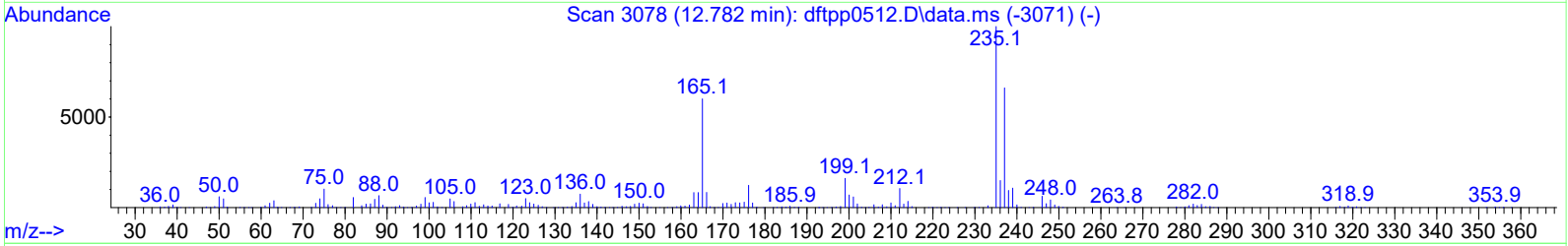
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(6) ddt (T)

6.283min (-0.117) 36.85

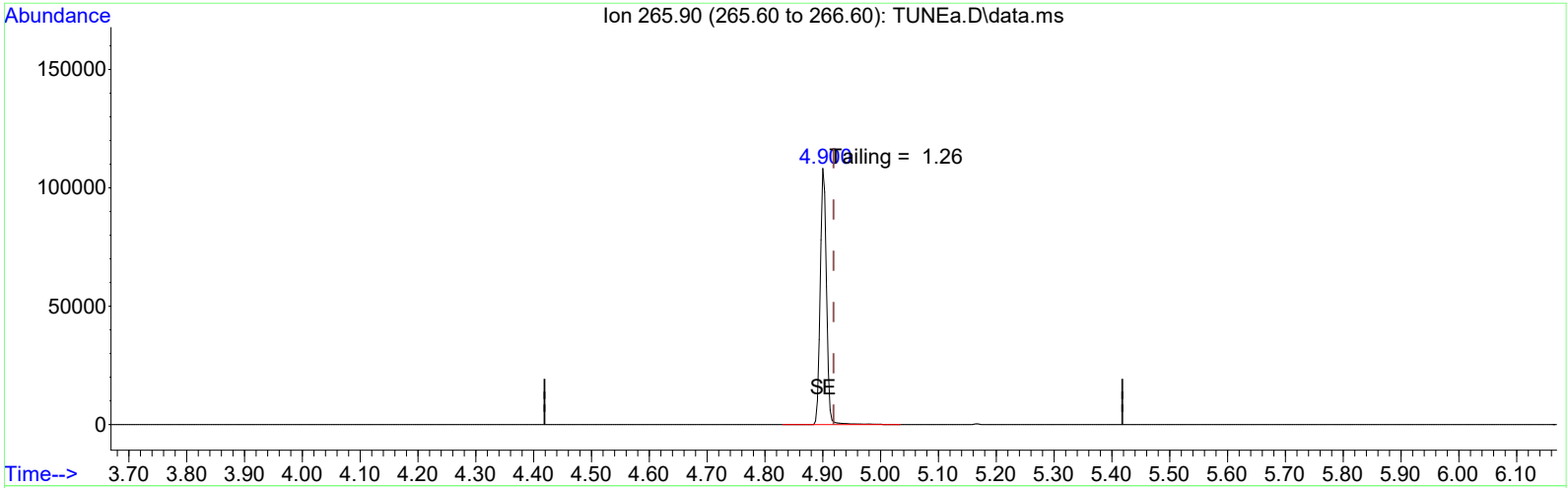
response 224634

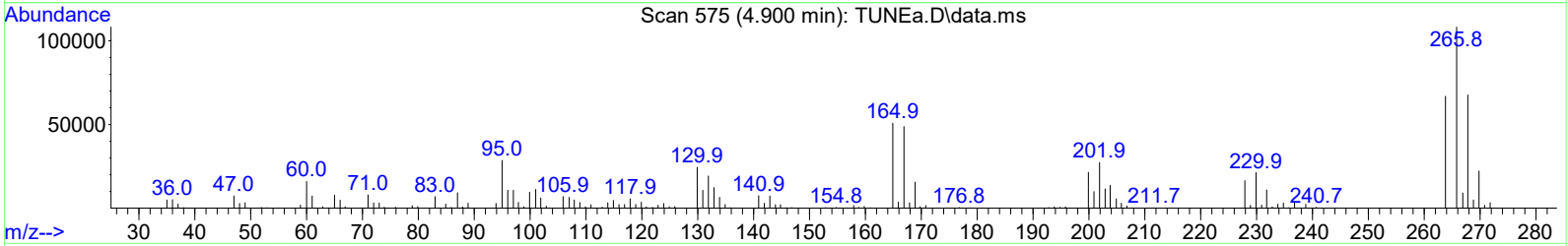
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.73
165.10	53.30	50.08
199.10	17.10	15.33

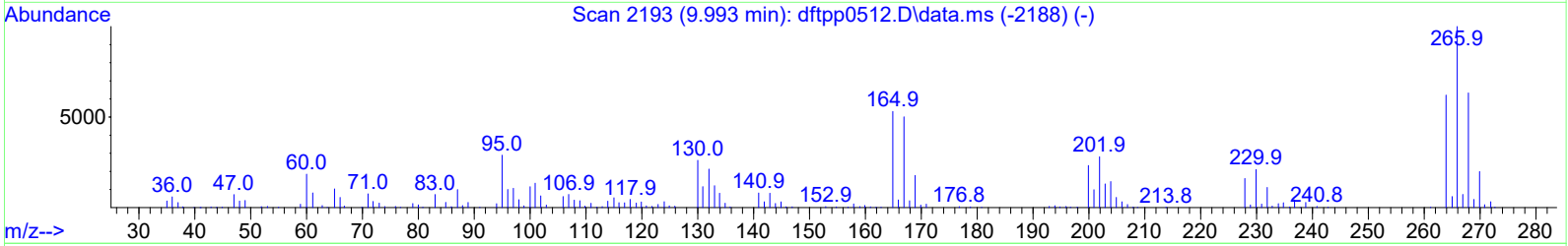
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(1) pentachlorophenol (T)

4.900min (-0.019) 38.60

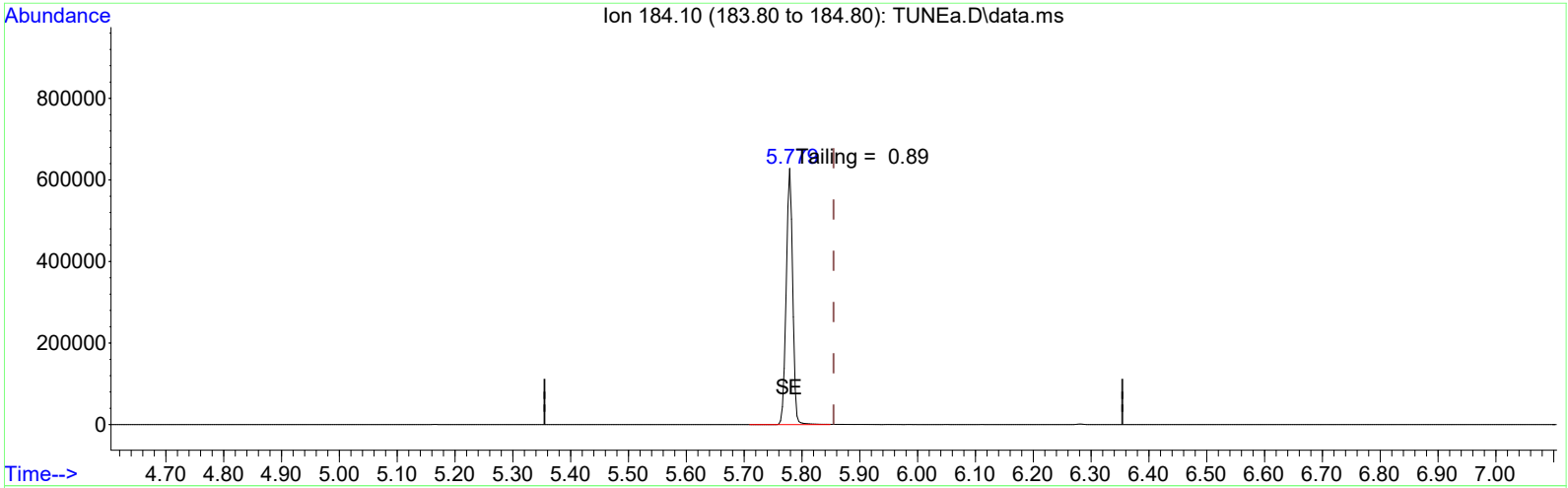
response 81073

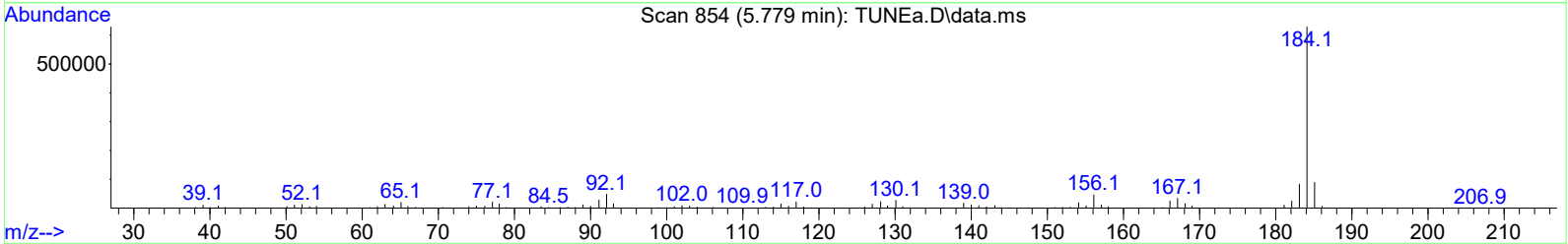
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

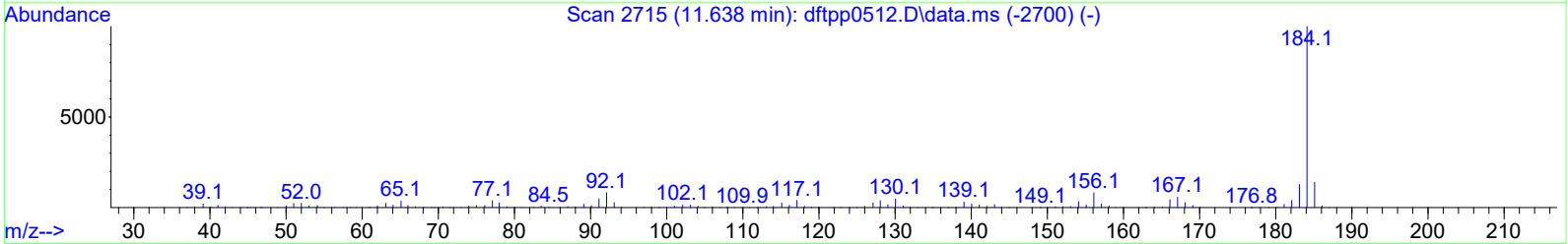
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(3) benzidine (T)

5.779min (-0.076) 48.01

response 488726

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	116118	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 64.24%			
8) Naphthalene-d8	2.949	136	441676	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 67.18%			
17) Acenaphthene-d10	3.932	164	249746	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 70.71%			
22) Phenanthrene-d10	4.773	188	519360	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 75.73%			
31) Chrysene-d12	6.339	240	437534	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 85.87%			
36) Perylene-d12	7.586	264	468674	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 95.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	167303	4847.732	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 242.39%#			
3) Phenol-d6	2.091	99	214369	5167.436	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 258.37%#			
7) Nitrobenzene-d5	2.561	82	197495	5343.274	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 534.33%#			
13) 2-Fluorobiphenyl	3.549	172	446198	4751.132	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 475.11%#			
21) 2,4,6-Tribromophenol	4.381	330	84158	4945.577	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 247.28%#			
30) 4-Terphenyl-d14	5.689	244	522792	4947.279	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 247.36%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	180003	4909.394	ng/ml	97
5) n-nitrosodi-n-propylamine	2.483	70	138328	5501.789	ng/ml	99
6) Hexachloroethane	2.540	117	80781	4862.504	ng/ml	100
9) Naphthalene	2.959	128	572864	4588.597	ng/ml	99
10) Hexachlorobutadiene	3.032	225	110497	4626.803	ng/ml	100
11) 2-Methylnaphthalene	3.343	142	383898	4928.642	ng/ml	99
12) 1-Methylnaphthalene	3.396	142	353973	4828.279	ng/ml	99
14) 2-Chloronaphthalene	3.615	162	390951	4910.820	ng/ml	100
15) 2,6-Dinitrotoluene	3.813	165	102306	5059.351	ng/ml	96
16) Acenaphthylene	3.852	152	630761	5383.619	ng/ml	100
18) Acenaphthene	3.949	153	402851	4701.214	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.041	165	140362	4961.046	ng/ml	97
20) Fluorene	4.242	166	450076	4872.611	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.274	198	81323	4960.275	ng/ml	98
24) Hexachlorobenzene	4.560	284	170883	4566.464	ng/ml	99
25) Pentachlorophenol	4.669	266	113223	5061.720	ng/ml	100
26) Phenanthrene	4.787	178	699442	4789.668	ng/ml	100
27) Anthracene	4.817	178	718996	4983.131	ng/ml	99
28) Fluoranthene	5.469	202	812328	5129.080	ng/ml	100
29) Pyrene	5.599	202	828081	5042.286	ng/ml	100
32) Benzo[a]anthracene	6.329	228	819561	4909.638	ng/ml	100
33) 3,3'-Dichlorobenzene	6.315	252	332556	5703.749	ng/ml	99
34) Chrysene	6.356	228	745399	4699.972	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.351	149	558598	5085.134	ng/ml	100
37) Benzo[b]fluoranthene	7.202	252	823633	5314.751	ng/ml	99
38) Benzo[k]fluoranthene	7.230	252	753851	5109.611	ng/ml	100
39) Benzo[a]pyrene	7.523	252	721027	5644.159	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.861	276	730050	6068.050	ng/ml	100
41) Dibenzo[a,h]anthracene	8.898	278	690601M6	5994.522	ng/ml	
42) Benzo[g,h,i]perylene	9.217	276	695924	5685.621	ng/ml	100

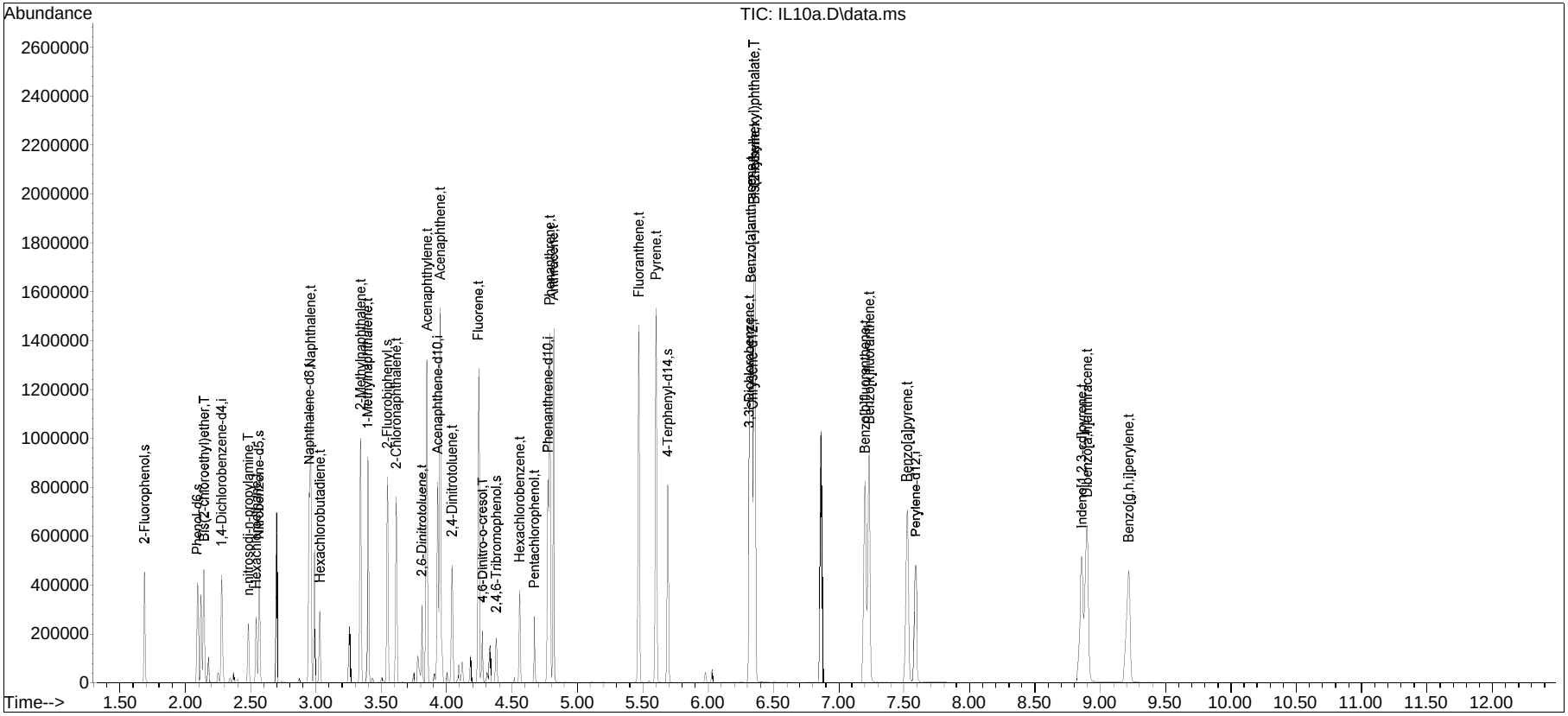
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

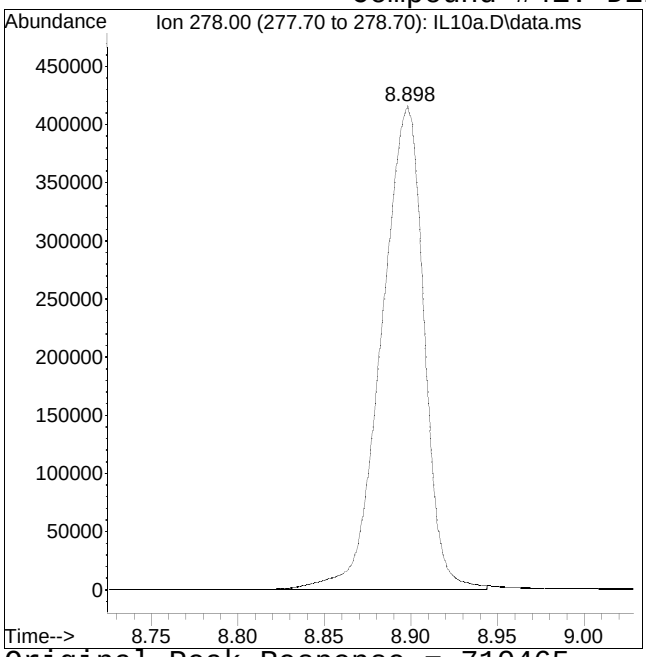
Sub List : Default - All compounds listedical\IL8.D•



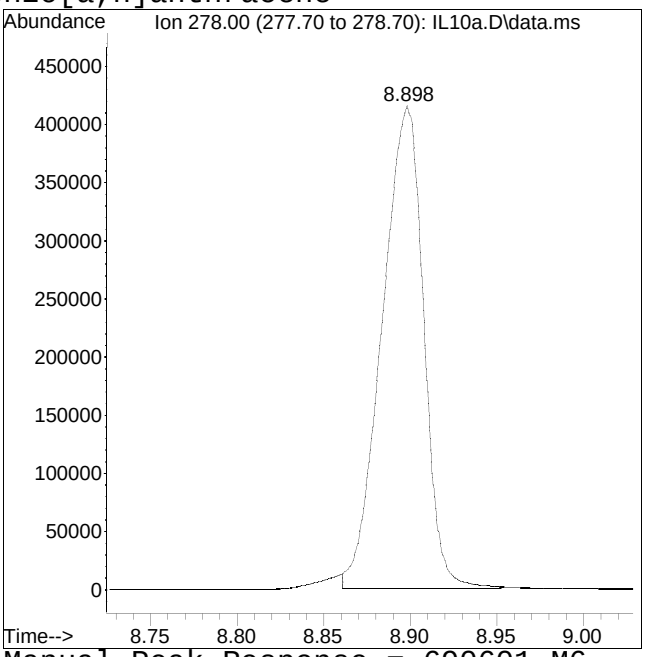
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL10a.D Operator : SV120:dv
Date Inj'd : 5/22/2024 1:32 pm Instrument : SV120
Sample : IL10,32,,5000.0ng/mL lot# Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 710465



Manual Peak Response = 690601 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
2	s	2-Fluorophenol	1.189	1.131	4.9	93	0.00
3	s	Phenol-d6	1.429	1.387	2.9	94	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.198	5.1	97	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.858	0.9	94	0.00
6	t	Hexachloroethane	0.572	0.546	4.5	96	0.00
7	s	Nitrobenzene-d5	1.273	1.266	0.5	96	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	104	0.00
9	t	Naphthalene	1.131	1.029	9.0	96	0.00
10	t	Hexachlorobutadiene	0.216	0.208	3.7	98	0.00
11	t	2-Methylnaphthalene	0.705	0.691	2.0	98	0.00
12	t	1-Methylnaphthalene	0.664	0.629	5.3	96	0.00
13	s	2-Fluorobiphenyl	0.851	0.802	5.8	97	0.00
14	t	2-Chloronaphthalene	0.721	0.677	6.1	95	0.00
15	t	2,6-Dinitrotoluene	*1000.000	869.450	13.1	94	0.00
16	t	Acenaphthylene	1.061	1.042	1.8	92	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	105	0.00
18	t	Acenaphthene	1.372	1.313	4.3	98	0.00
19	t	2,4-Dinitrotoluene	*1000.000	878.216	12.2	92	0.00
20	t	Fluorene	1.479	1.403	5.1	96	0.00
21	s	2,4,6-Tribromophenol	*1000.000	868.207	13.2	91	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	105	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	861.821	13.8	90	0.00
24	t	Hexachlorobenzene	0.288	0.266	7.6	94	0.00
25	t	Pentachlorophenol	*1000.000	837.798	16.2	90	0.00
26	t	Phenanthrene	1.125	1.071	4.8	94	0.00
27	t	Anthracene	1.111	1.077	3.1	96	0.00
28	t	Fluoranthene	1.220	1.147	6.0	95	0.00
29	t	Pyrene	1.265	1.200	5.1	95	0.00
30	s	4-Terphenyl-d14	0.814	0.759	6.8	99	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	107	-0.01
32	t	Benzo[a]anthracene	*1000.000	914.351	8.6	94	-0.01
33	t	3,3'-Dichlorobenzene	0.533	0.483	9.4	88	-0.01
34	t	Chrysene	1.450	1.352	6.8	97	-0.01
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	808.766	19.1	92	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	109	-0.01
37	t	Benzo[b]fluoranthene	1.323	1.271	3.9	93	-0.01
38	t	Benzo[k]fluoranthene	1.259	1.307	-3.8	102	-0.01
39	t	Benzo[a]pyrene	1.090	1.110	-1.8	97	-0.02
40	t	Indeno[1,2,3-cd]pyrene	1.027	0.994	3.2	98	-0.01
41	t	Dibenzo[a,h]anthracene	0.983	0.998	-1.5	97	-0.01
42	t	Benzo[g,h,i]perylene	1.045	0.988	5.5	97	-0.02

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	187414	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 103.68%			
8) Naphthalene-d8	2.949	136	685146	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 104.21%			
17) Acenaphthene-d10	3.930	164	369600	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 104.64%			
22) Phenanthrene-d10	4.773	188	720697	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 105.09%			
31) Chrysene-d12	6.336	240	547718	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 107.49%			
36) Perylene-d12	7.586	264	538023	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 109.30%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.714	112	52974	951.032	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.55%			
3) Phenol-d6	2.094	99	64987	970.593	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.53%			
7) Nitrobenzene-d5	2.561	82	59316	994.307	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.43%			
13) 2-Fluorobiphenyl	3.548	172	137296	942.428	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.24%			
21) 2,4,6-Tribromophenol	4.374	330	21775	868.207	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.41%			
30) 4-Terphenyl-d14	5.689	244	136699	932.220	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.61%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.147	93	56124	948.406	ng/ml	99
5) n-nitrosodi-n-propylamine	2.480	70	40192	990.446	ng/ml	100
6) Hexachloroethane	2.540	117	25597	954.635	ng/ml	99
9) Naphthalene	2.959	128	176241	910.031	ng/ml	100
10) Hexachlorobutadiene	3.032	225	35567	960.060	ng/ml	100
11) 2-Methylnaphthalene	3.339	142	118274	978.862	ng/ml	100
12) 1-Methylnaphthalene	3.396	142	107689	946.922	ng/ml	100
14) 2-Chloronaphthalene	3.612	162	115951	938.916	ng/ml	99
15) 2,6-Dinitrotoluene	3.808	165	26765	869.450	ng/ml	97
16) Acenaphthylene	3.846	152	178421	981.694	ng/ml	100
18) Acenaphthene	3.946	153	121317	956.652	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.035	165	36068	878.216	ng/ml	99
20) Fluorene	4.238	166	129609	948.151	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.267	198	18145	861.821	ng/ml	99
24) Hexachlorobenzene	4.557	284	47965	923.680	ng/ml	100
25) Pentachlorophenol	4.666	266	24833	837.798	ng/ml	100
26) Phenanthrene	4.786	178	192933	952.086	ng/ml	100
27) Anthracene	4.814	178	194011	968.987	ng/ml	100
28) Fluoranthene	5.466	202	206733	940.662	ng/ml	100
29) Pyrene	5.596	202	216295	949.111	ng/ml	100
32) Benzo[a]anthracene	6.326	228	192324	914.351	ng/ml	100
33) 3,3'-Dichlorobenzene	6.312	252	66162	906.482	ng/ml	99
34) Chrysene	6.353	228	185135	932.502	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.353	149	107790	808.766	ng/ml	100
37) Benzo[b]fluoranthene	7.196	252	170922	960.765	ng/ml	100
38) Benzo[k]fluoranthene	7.222	252	175807	1038.027	ng/ml	100
39) Benzo[a]pyrene	7.514	252	149283	1017.954	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.841	276	133663	967.783	ng/ml	97
41) Dibenzo[a,h]anthracene	8.878	278	134229M6	1014.948	ng/ml	
42) Benzo[g,h,i]perylene	9.191	276	132877	945.662	ng/ml	99

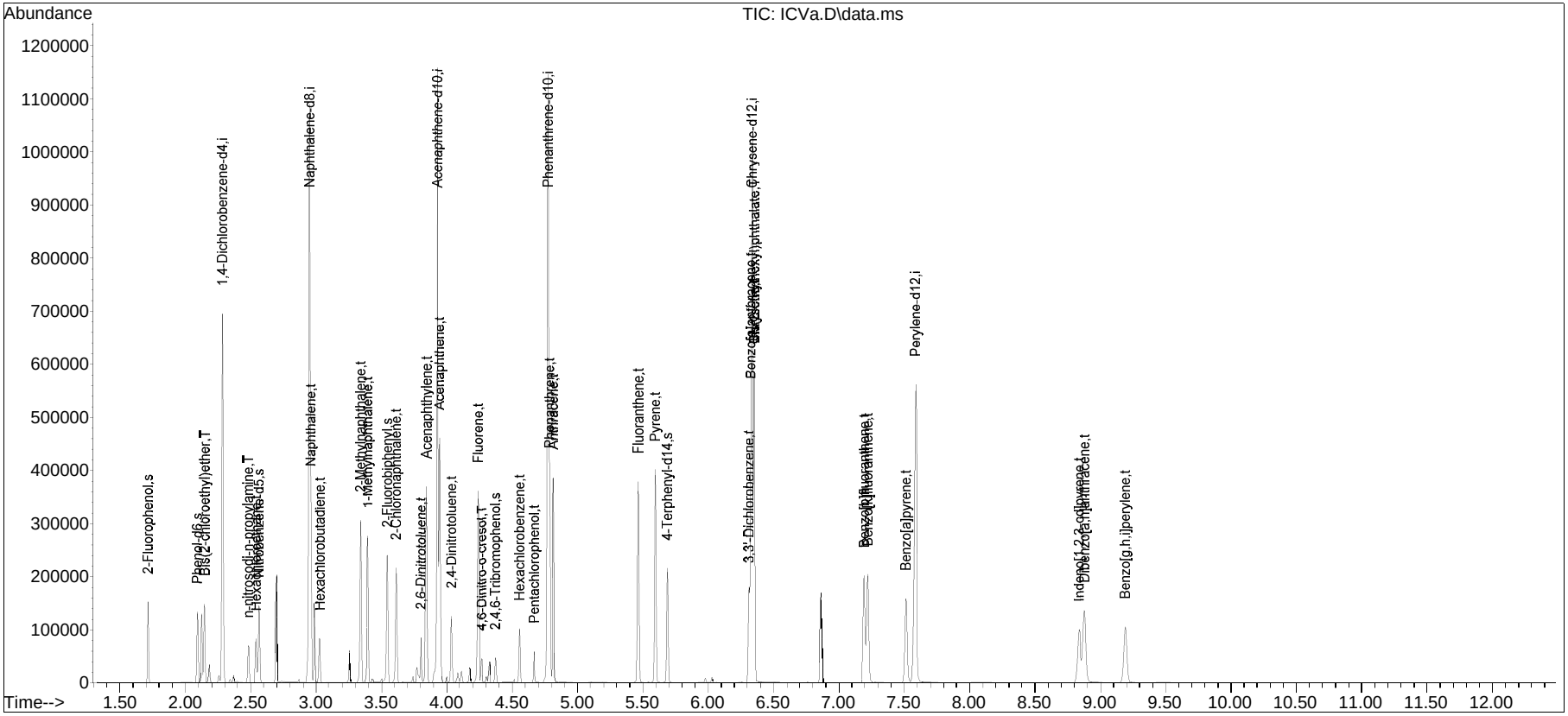
(#) = qualifier out of range (m) = manual integration (+) = signals summed

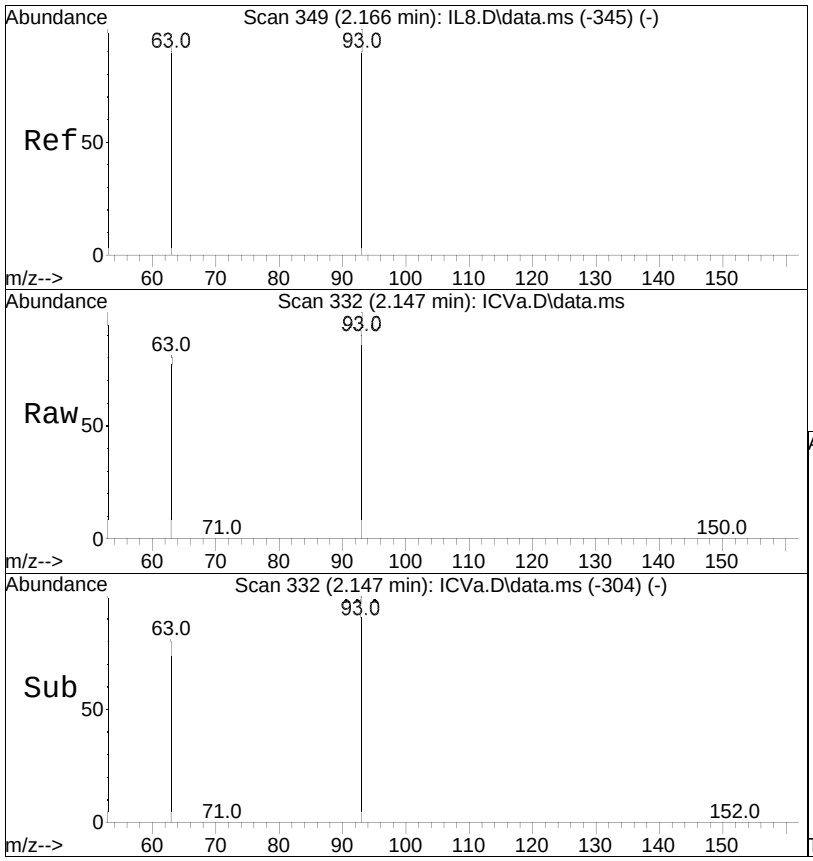
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

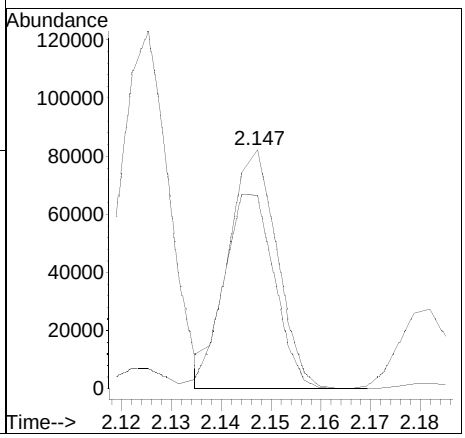


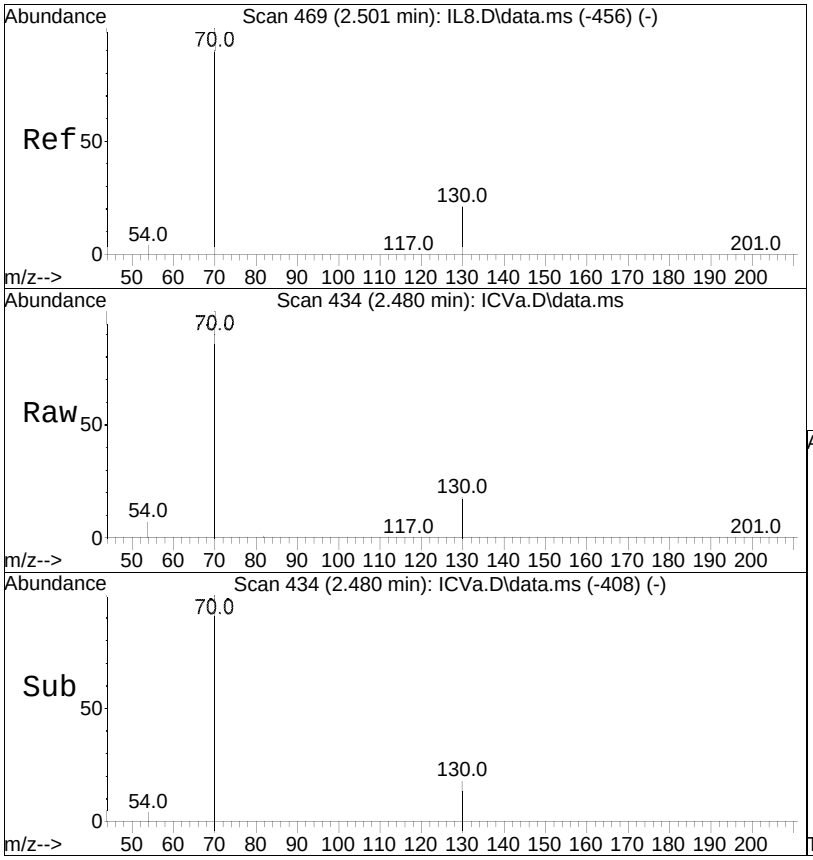


#4
Bis(2-chloroethyl)ether
Concen: 948.41 ng/ml
RT: 2.147 min Scan# 332
Delta R.T. 0.009 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion: 93 Resp: 56124

Ion	Ratio	Lower	Upper
93	100		
63	84.4	68.6	102.8

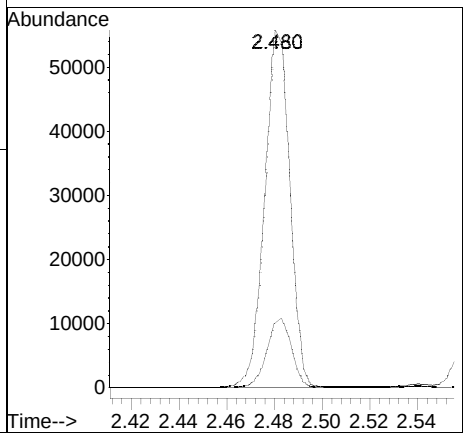


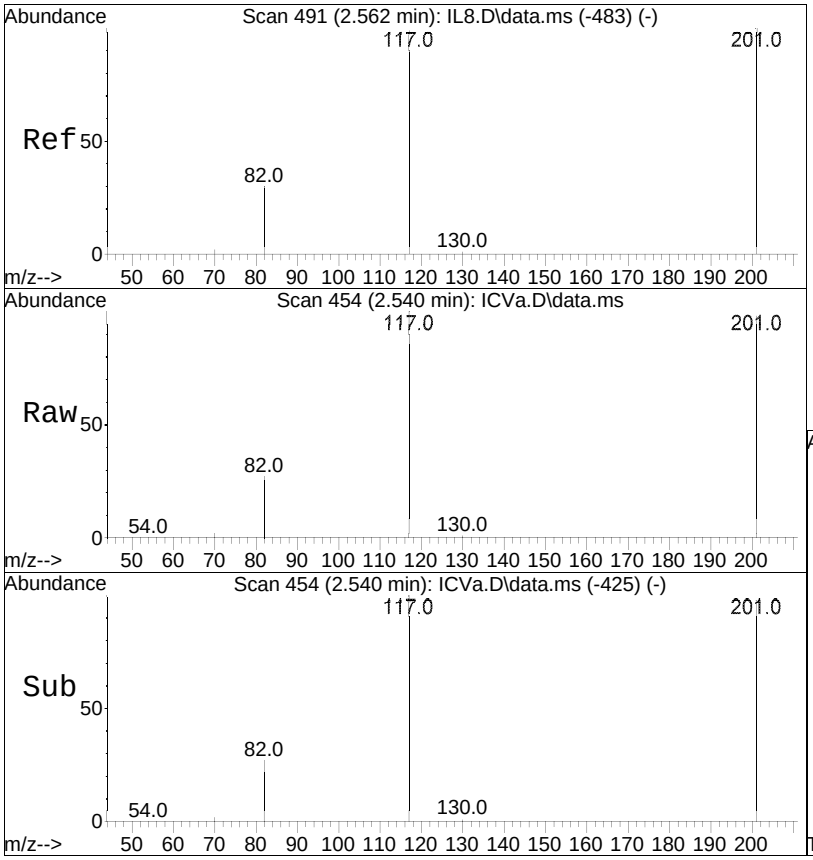


#5
n-nitrosodi-n-propylamine
Concen: 990.45 ng/ml
RT: 2.480 min Scan# 434
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion: 70 Resp: 40192

Ion	Ratio	Lower	Upper
70	100		
130	19.1	15.1	22.7

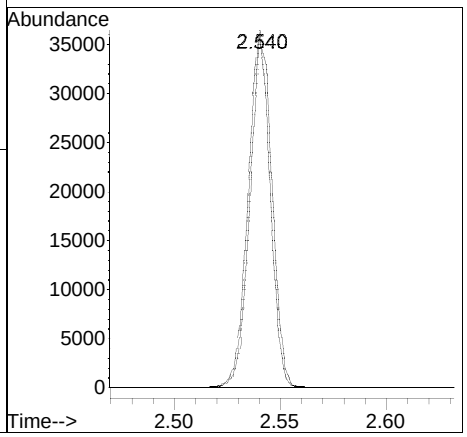


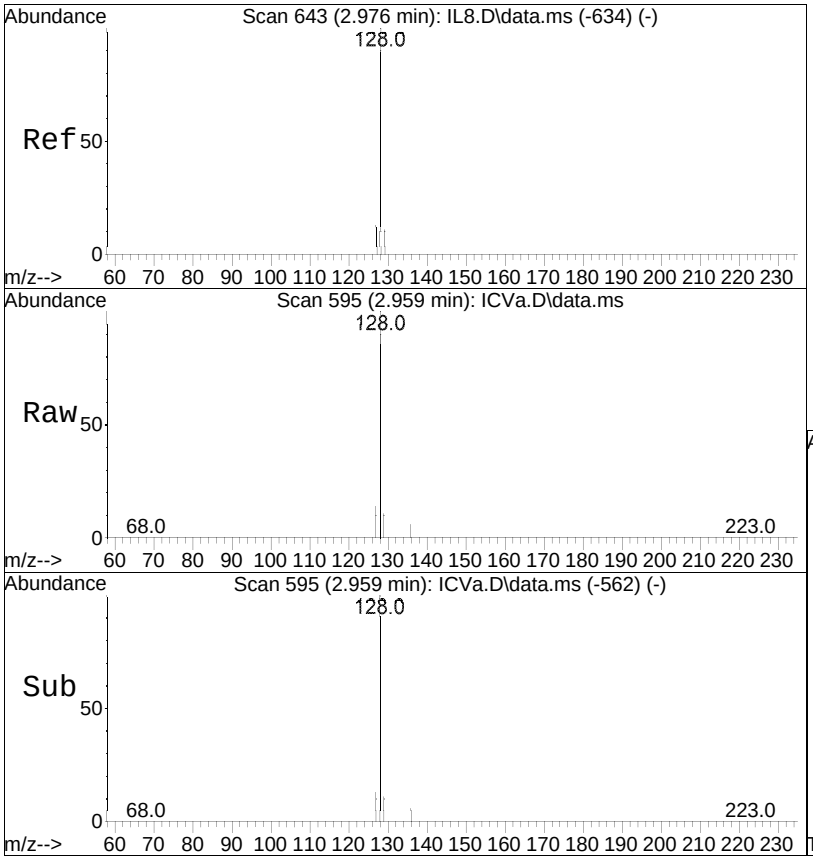


#6
Hexachloroethane
Concen: 954.64 ng/ml
RT: 2.540 min Scan# 454
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:117 Resp: 25597

Ion	Ratio	Lower	Upper
117	100		
201	99.9	79.4	119.2

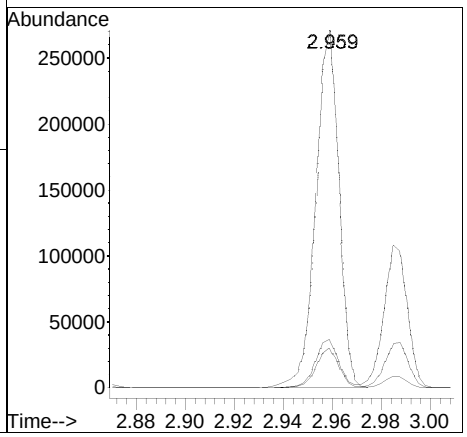


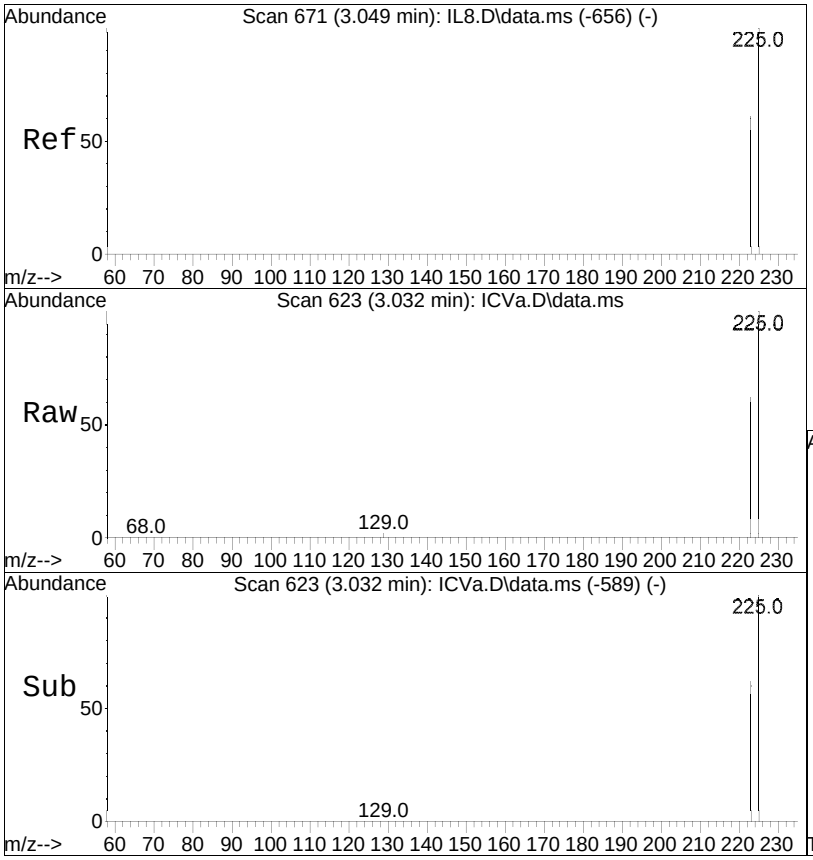


#9
Naphthalene
Concen: 910.03 ng/ml
RT: 2.959 min Scan# 595
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:128 Resp: 176241

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	14.0	11.3	16.9

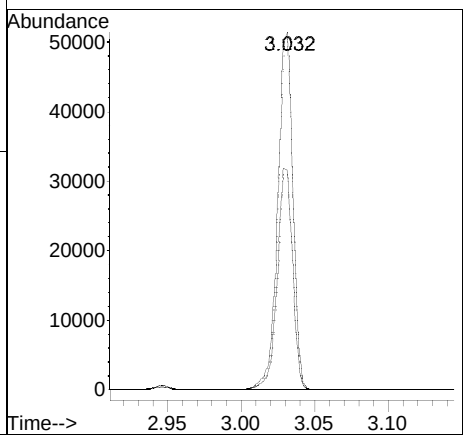


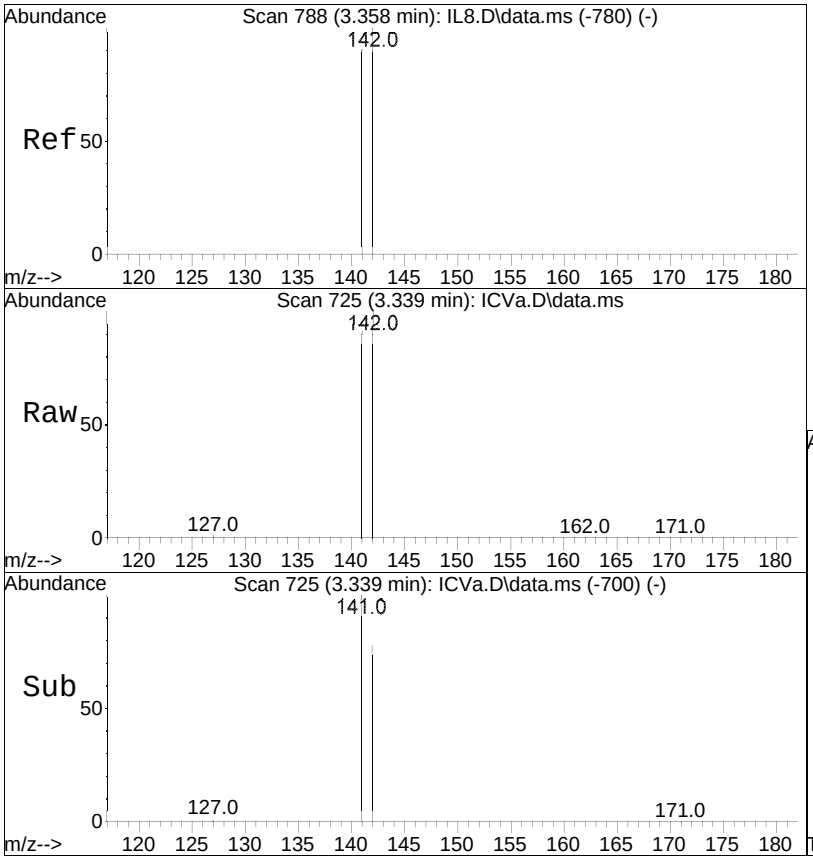


#10
Hexachlorobutadiene
Concen: 960.06 ng/ml
RT: 3.032 min Scan# 623
Delta R.T. 0.008 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:225 Resp: 35567

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.1	75.1

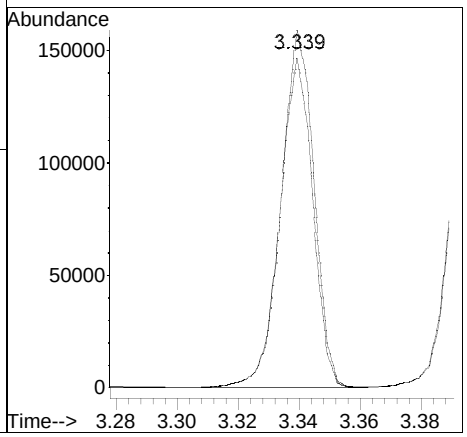


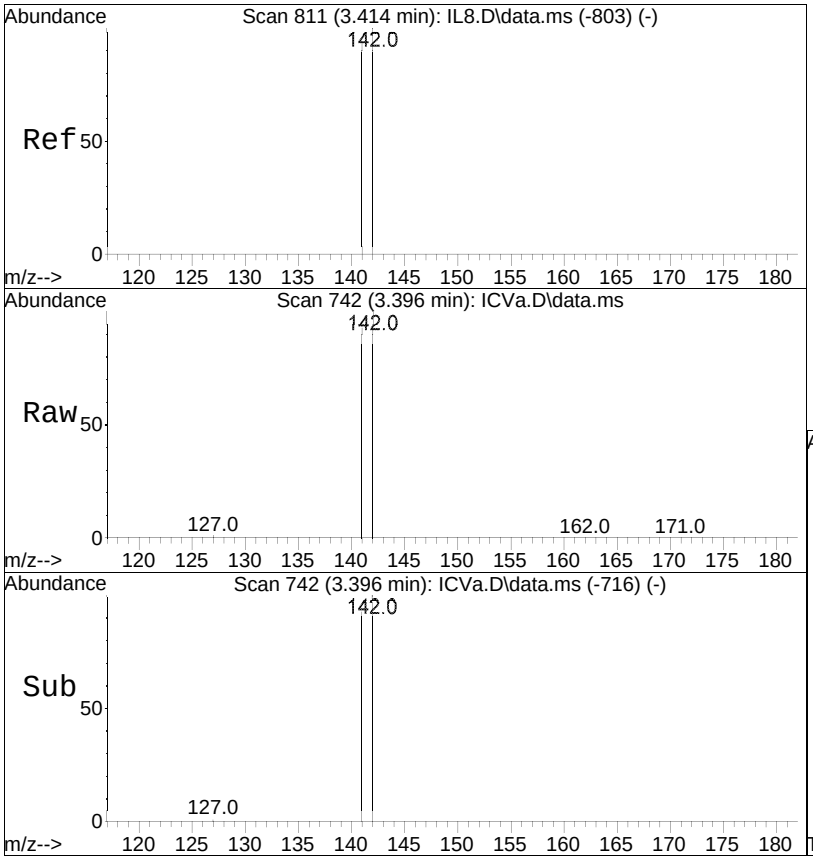


#11
2-Methylnaphthalene
Concen: 978.86 ng/ml
RT: 3.339 min Scan# 725
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:142 Resp: 118274

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.8	110.6

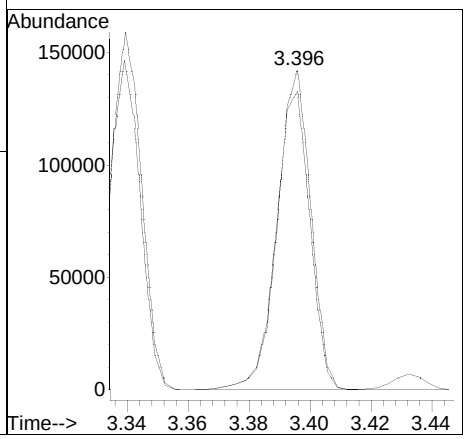


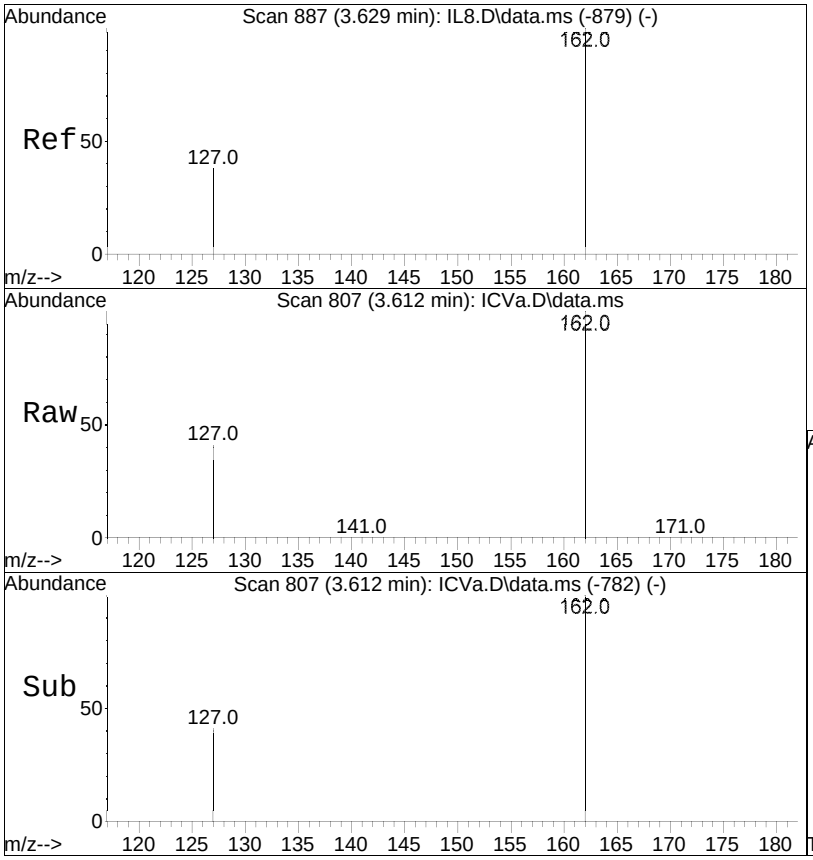


#12
1-Methylnaphthalene
Concen: 946.92 ng/ml
RT: 3.396 min Scan# 742
Delta R.T. 0.007 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:142 Resp: 107689

Ion	Ratio	Lower	Upper
142	100		
141	95.1	76.3	114.5

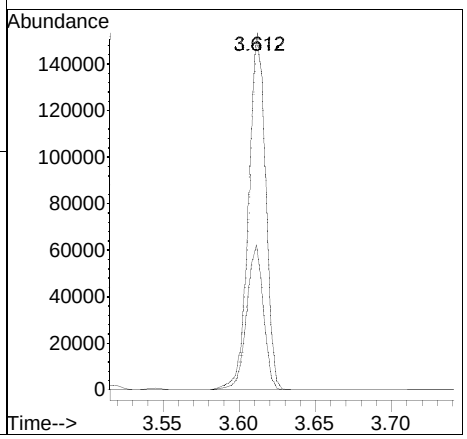


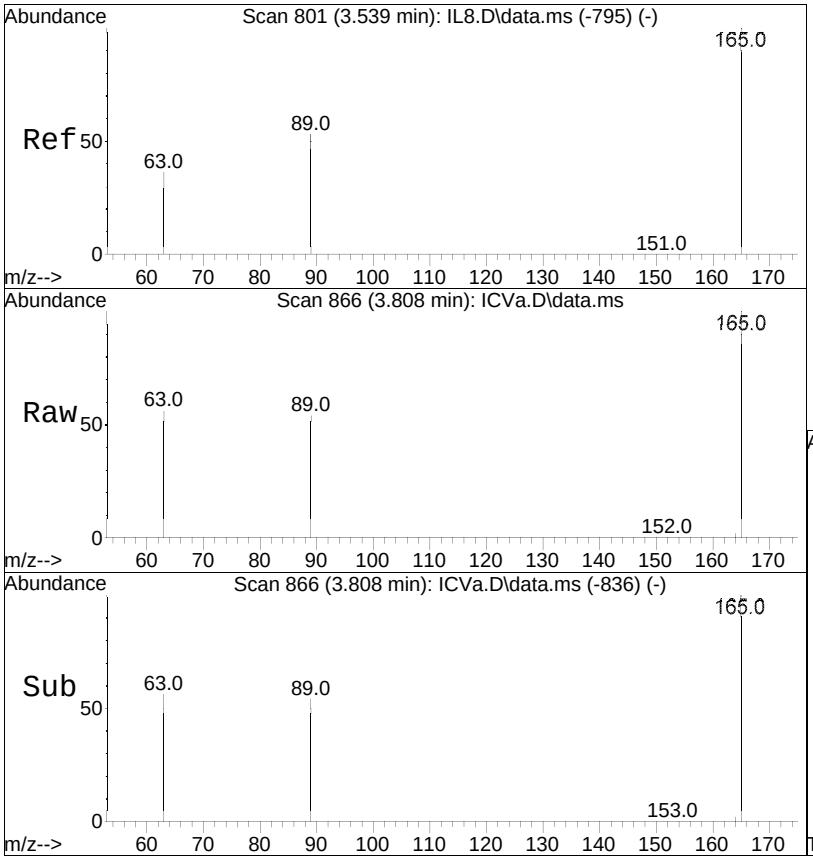


#14
2-Chloronaphthalene
Concen: 938.92 ng/ml
RT: 3.612 min Scan# 807
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:162 Resp: 115951

Ion	Ratio	Lower	Upper
162	100		
127	40.4	32.0	48.0

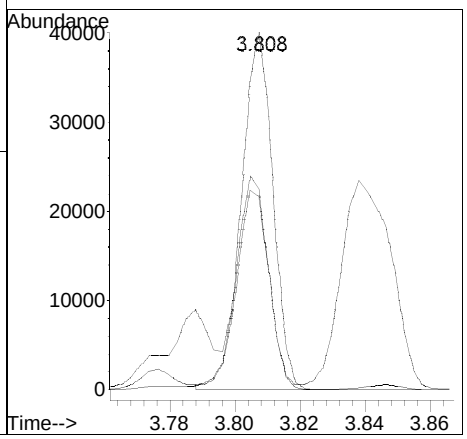


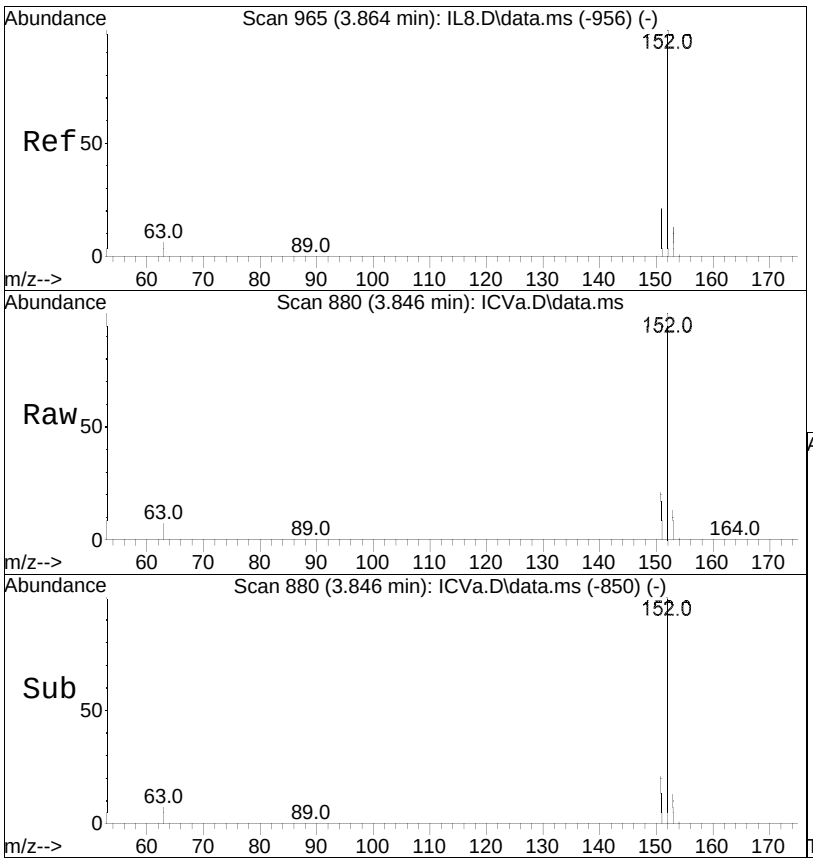


#15
2,6-Dinitrotoluene
Concen: 869.45 ng/ml
RT: 3.808 min Scan# 866
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:165 Resp: 26765

Ion	Ratio	Lower	Upper
165	100		
89	58.4	48.0	72.0
63	57.9	48.2	72.2

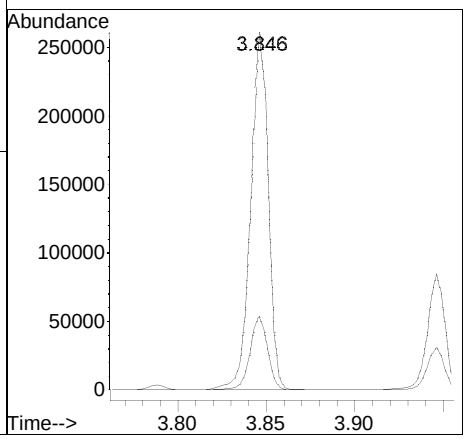


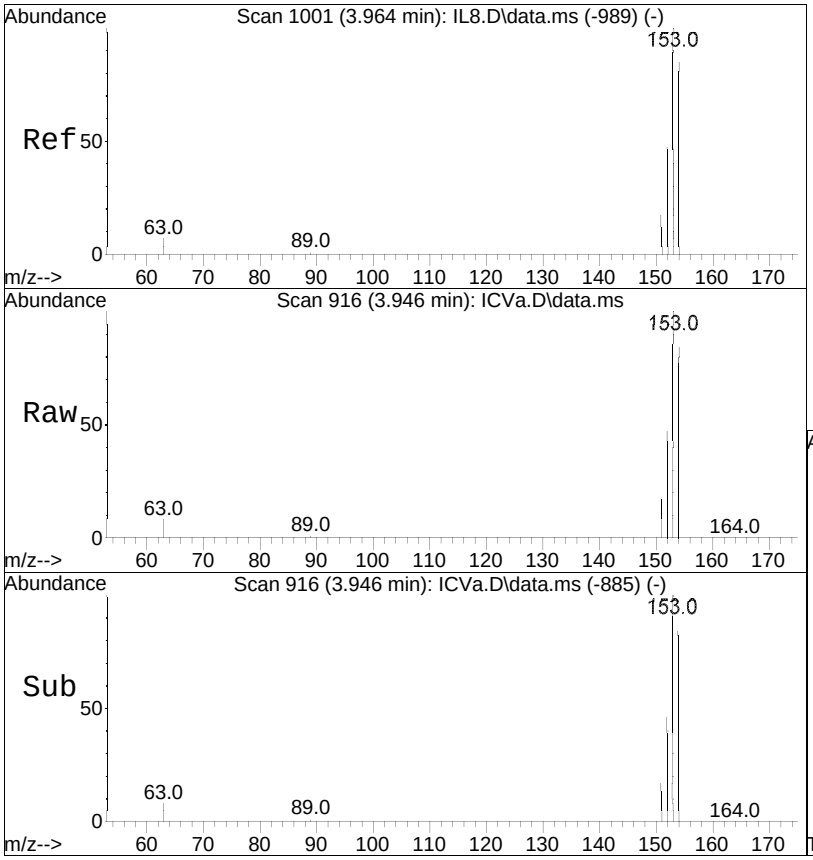


#16
Acenaphthylene
Concen: 981.69 ng/ml
RT: 3.846 min Scan# 880
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:152 Resp: 178421

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.5	24.7

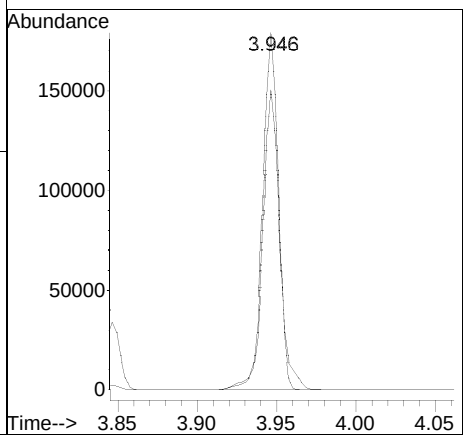


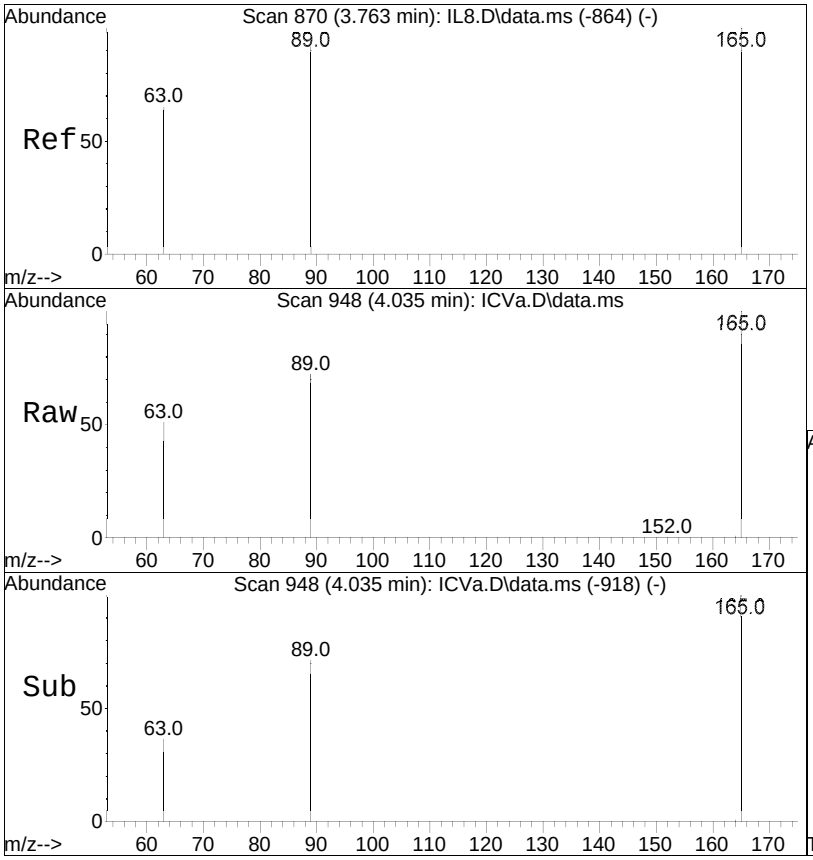


#18
Acenaphthene
Concen: 956.65 ng/ml
RT: 3.946 min Scan# 916
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:153 Resp: 121317

Ion	Ratio	Lower	Upper
153	100		
154	90.5	73.4	110.2

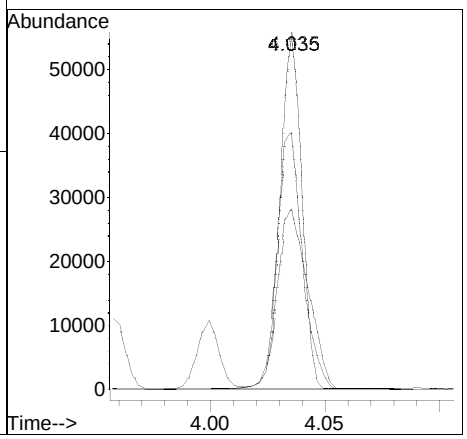


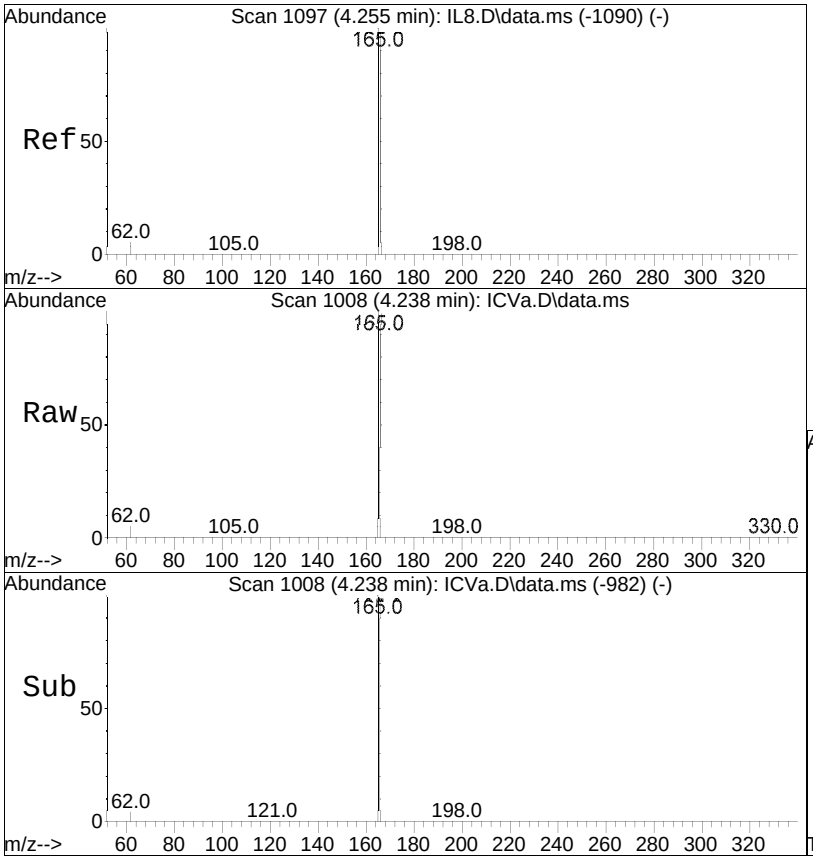


#19
2,4-Dinitrotoluene
Concen: 878.22 ng/ml
RT: 4.035 min Scan# 948
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:165 Resp: 36068

Ion	Ratio	Lower	Upper
165	100		
89	101.7	82.0	123.0
63	90.8	73.0	109.6

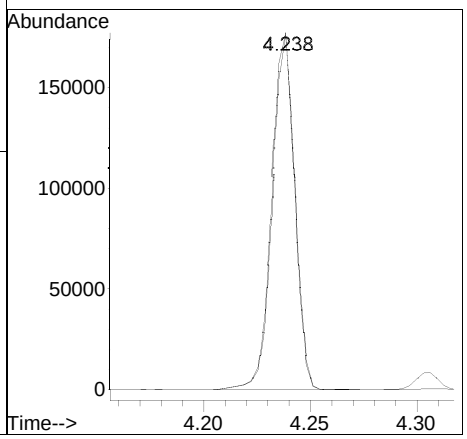


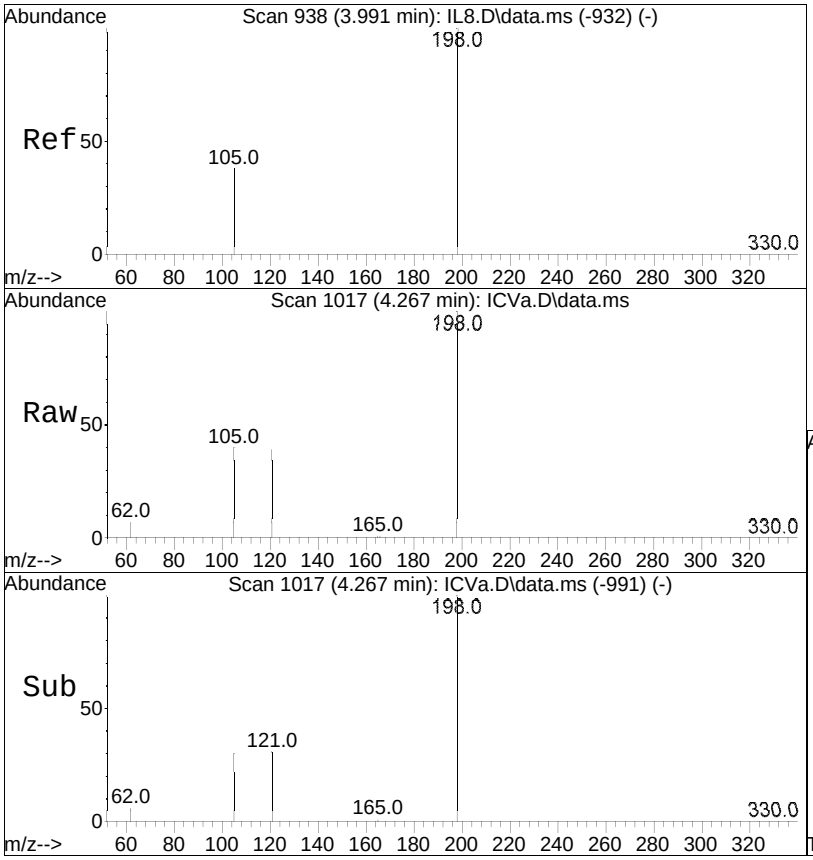


#20
Fluorene
Concen: 948.15 ng/ml
RT: 4.238 min Scan# 1008
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:166 Resp: 129609

Ion	Ratio	Lower	Upper
166	100		
165	101.8	81.9	122.9

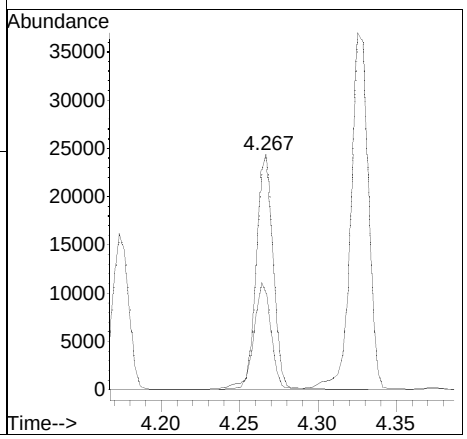


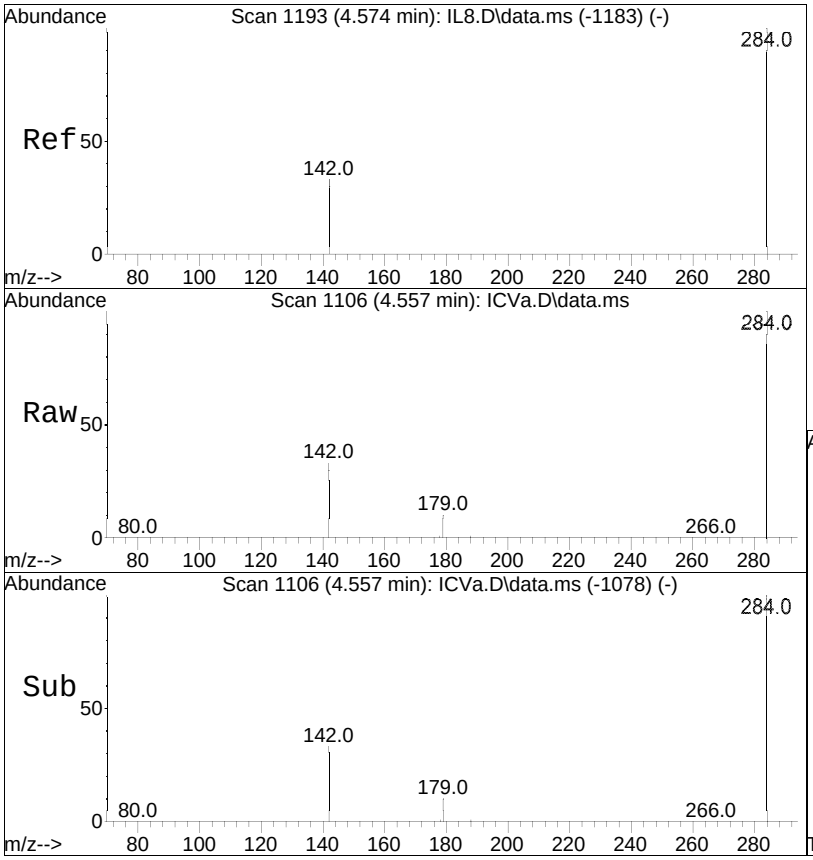


#23
4,6-Dinitro-o-cresol
Concen: 861.82 ng/ml
RT: 4.267 min Scan# 1017
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:198 Resp: 18145

Ion	Ratio	Lower	Upper
198	100		
105	46.9	37.8	56.8

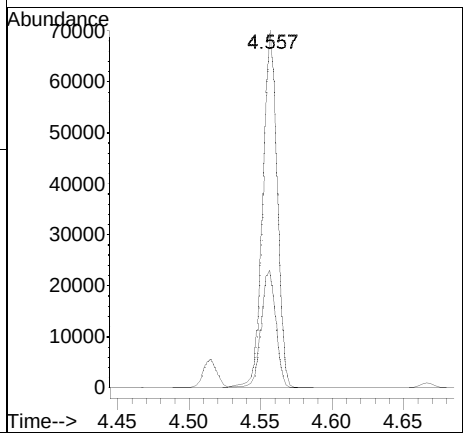


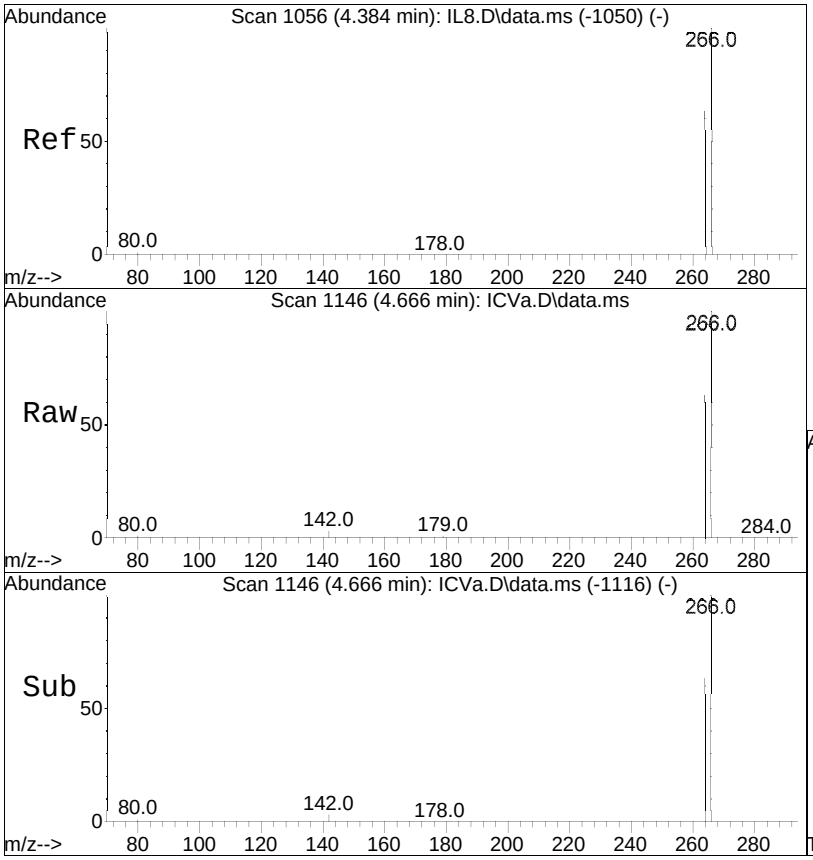


#24
Hexachlorobenzene
Concen: 923.68 ng/ml
RT: 4.557 min Scan# 1106
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:284 Resp: 47965

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.8	40.2

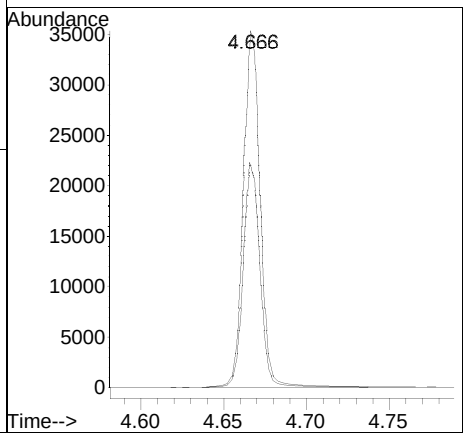


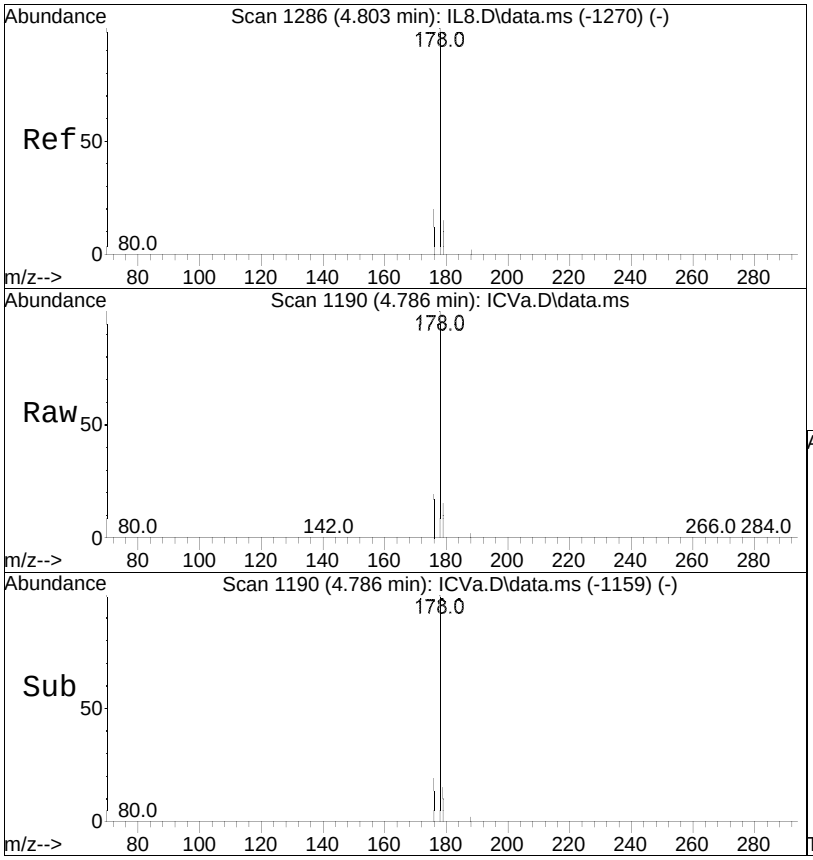


#25
Pentachlorophenol
Concen: 837.80 ng/ml
RT: 4.666 min Scan# 1146
Delta R.T. 0.001 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:266 Resp: 24833

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2

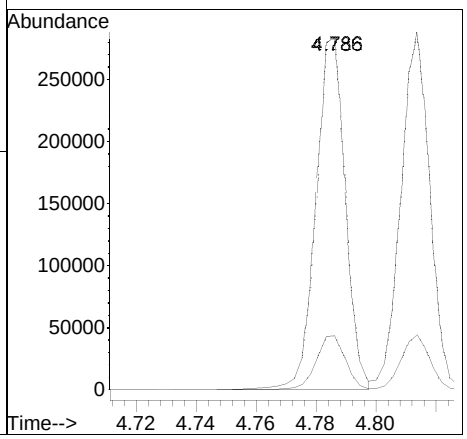


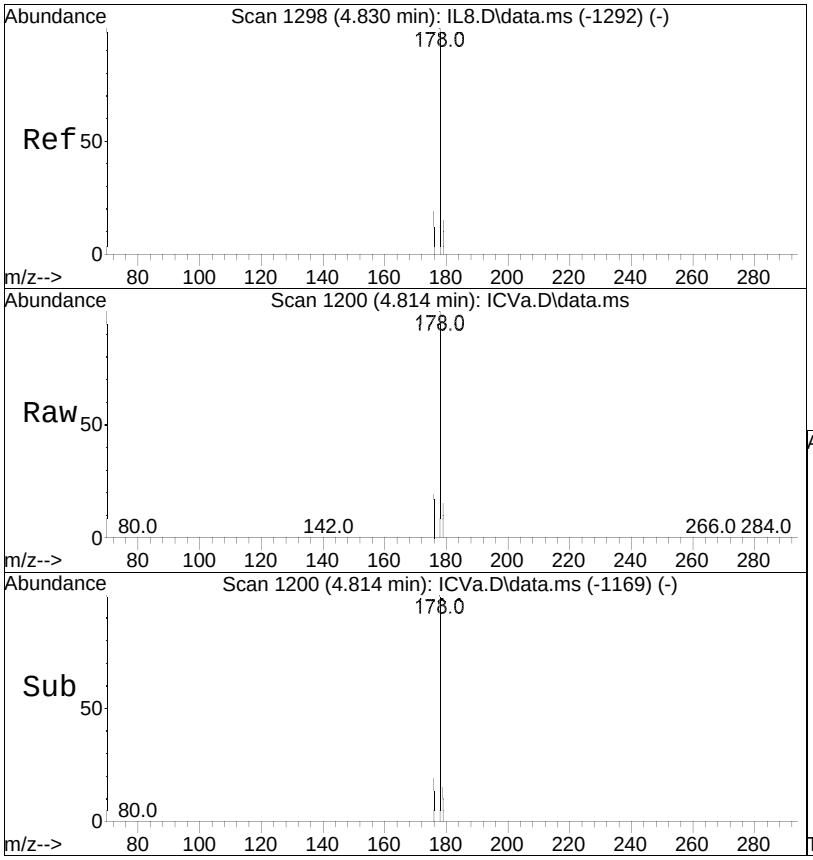


#26
Phenanthrene
Concen: 952.09 ng/ml
RT: 4.786 min Scan# 1190
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:178 Resp: 192933

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

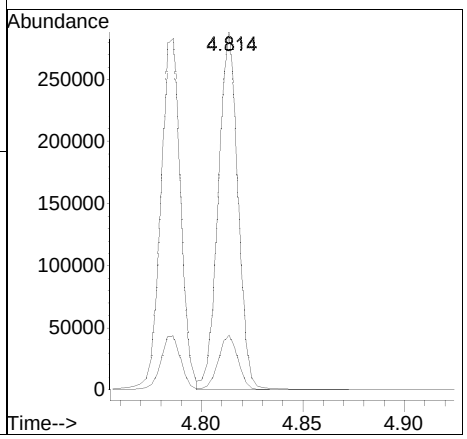


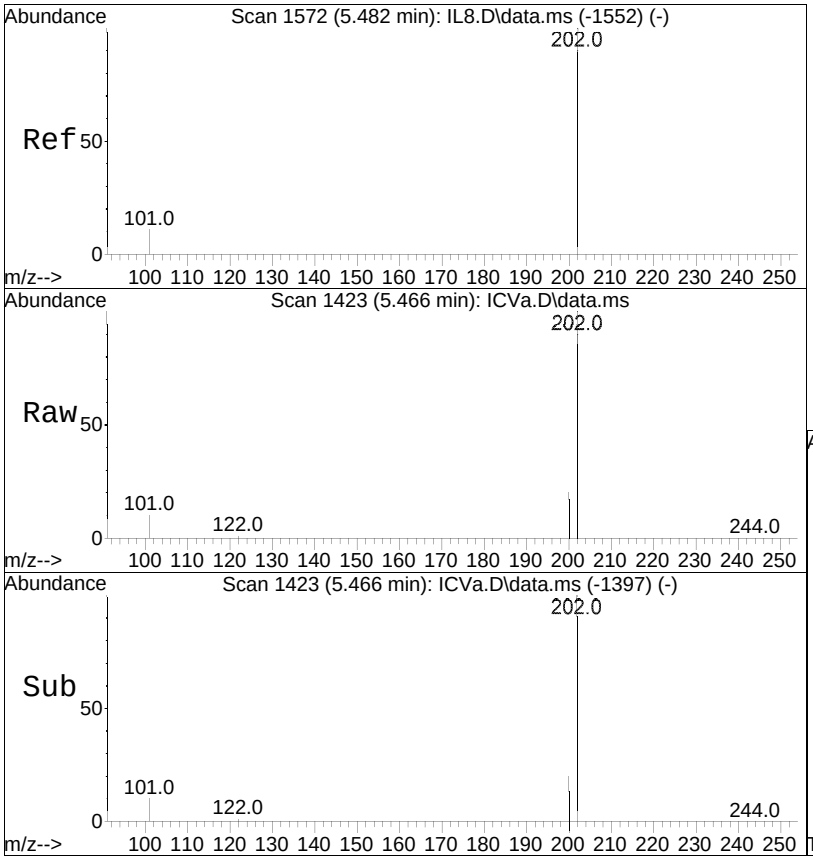


#27
Anthracene
Concen: 968.99 ng/ml
RT: 4.814 min Scan# 1200
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:178 Resp: 194011

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.4

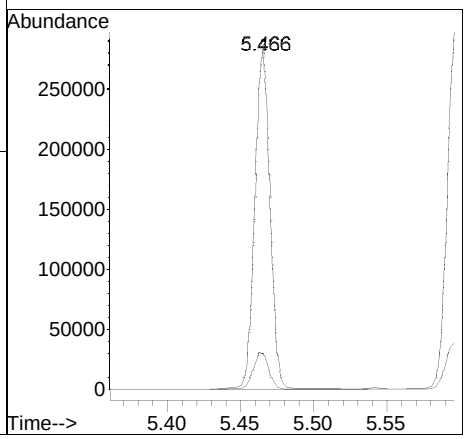


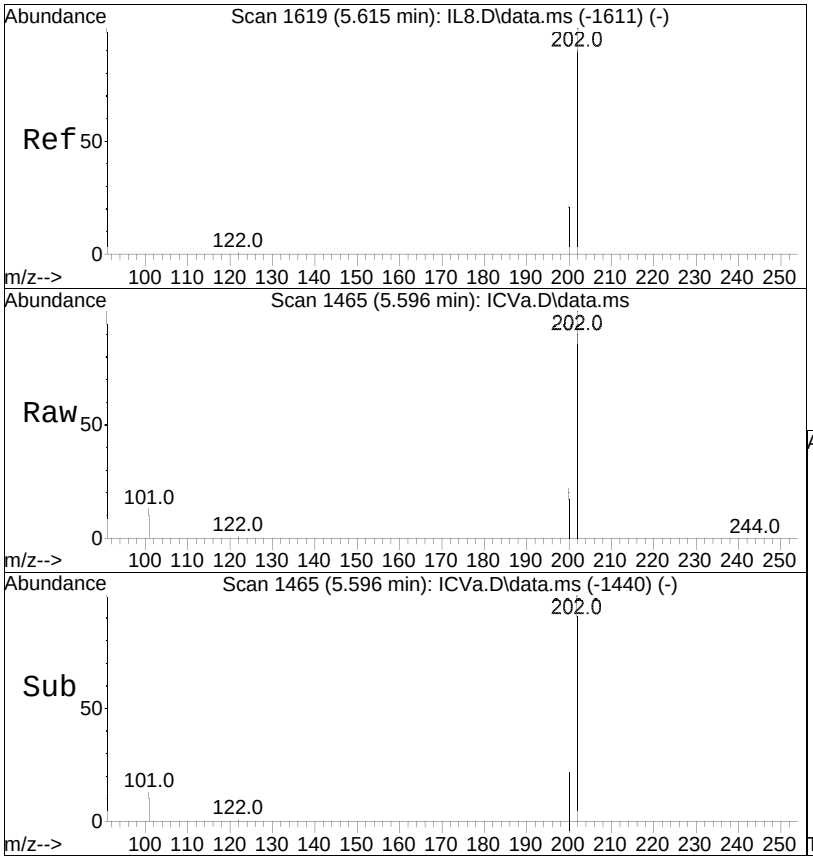


#28
Fluoranthene
Concen: 940.66 ng/ml
RT: 5.466 min Scan# 1423
Delta R.T. 0.001 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:202 Resp: 206733

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.0	13.6

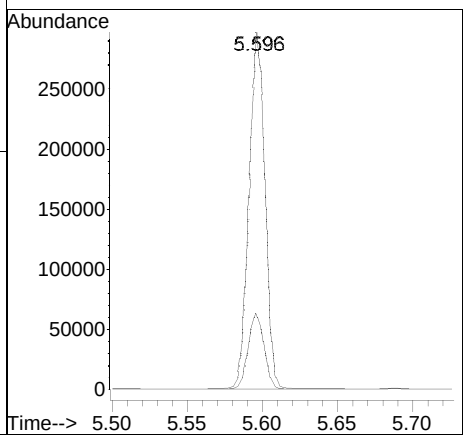


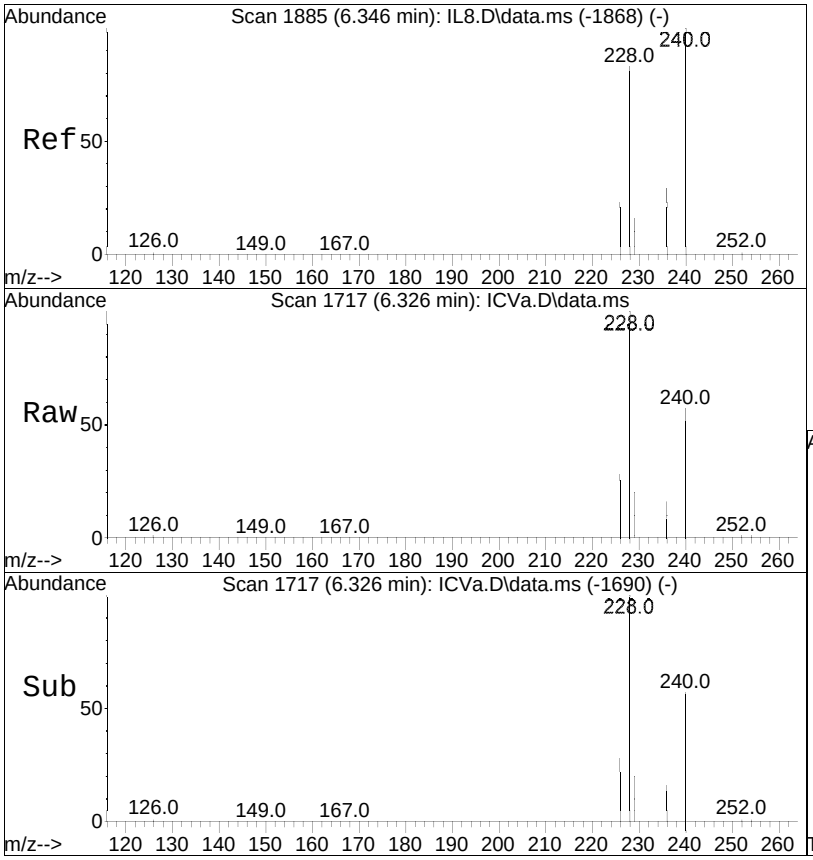


#29
Pyrene
Concen: 949.11 ng/ml
RT: 5.596 min Scan# 1465
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:202 Resp: 216295

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8

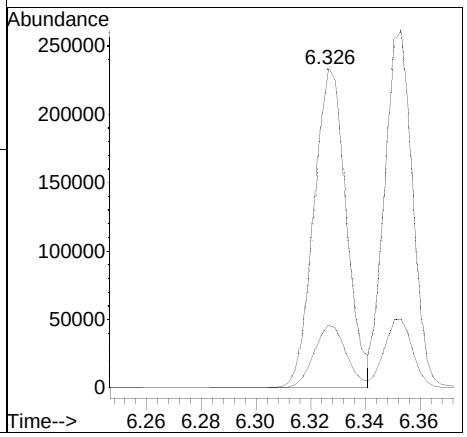


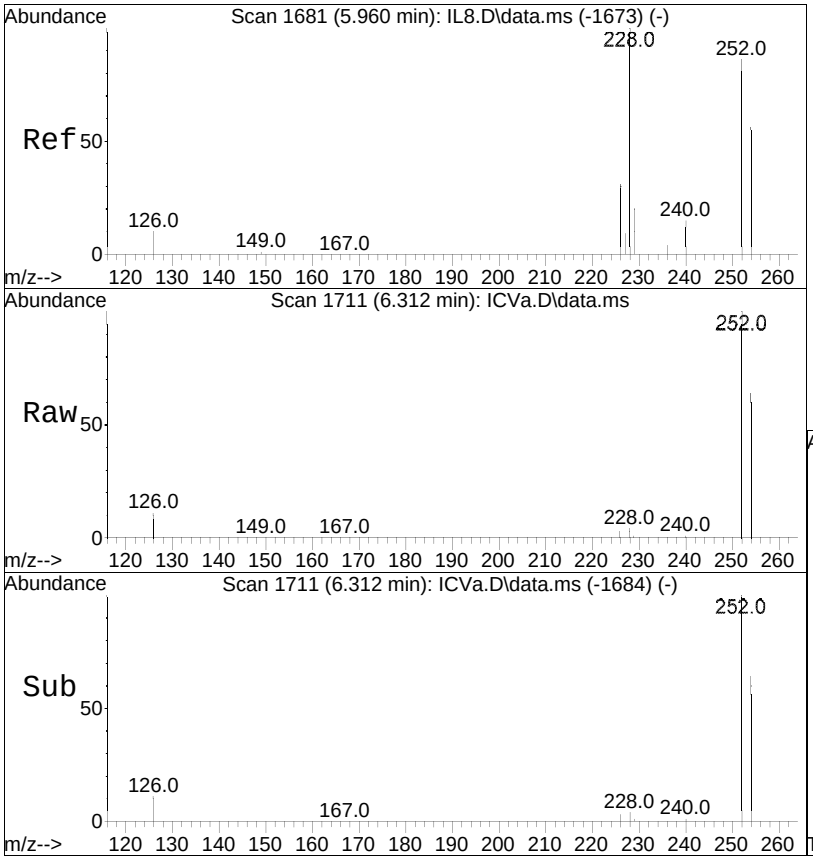


#32
Benzo[a]anthracene
Concen: 914.35 ng/ml
RT: 6.326 min Scan# 1717
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:228 Resp: 192324

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

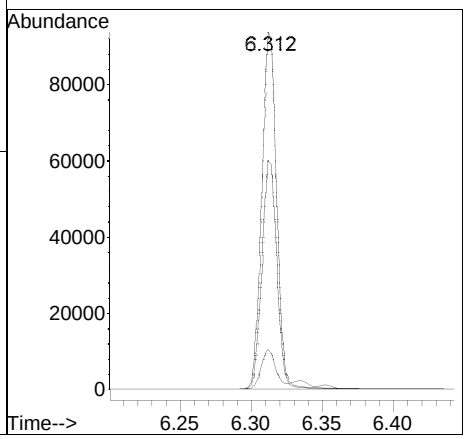


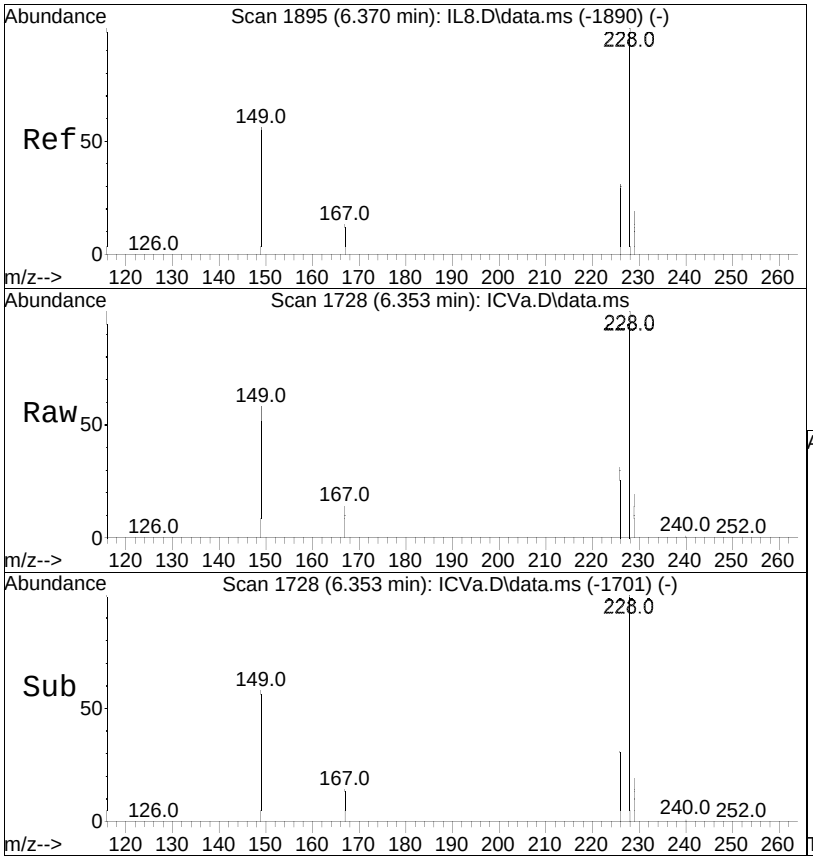


#33
3,3'-Dichlorobenzene
Concen: 906.48 ng/ml
RT: 6.312 min Scan# 1711
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 66162

Ion	Ratio	Lower	Upper
252	100		
126	11.3	9.4	14.2
254	64.6	51.4	77.2

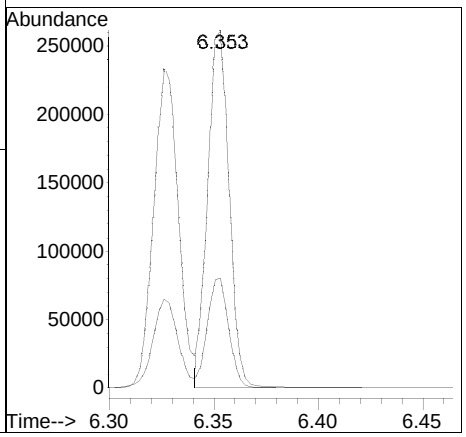


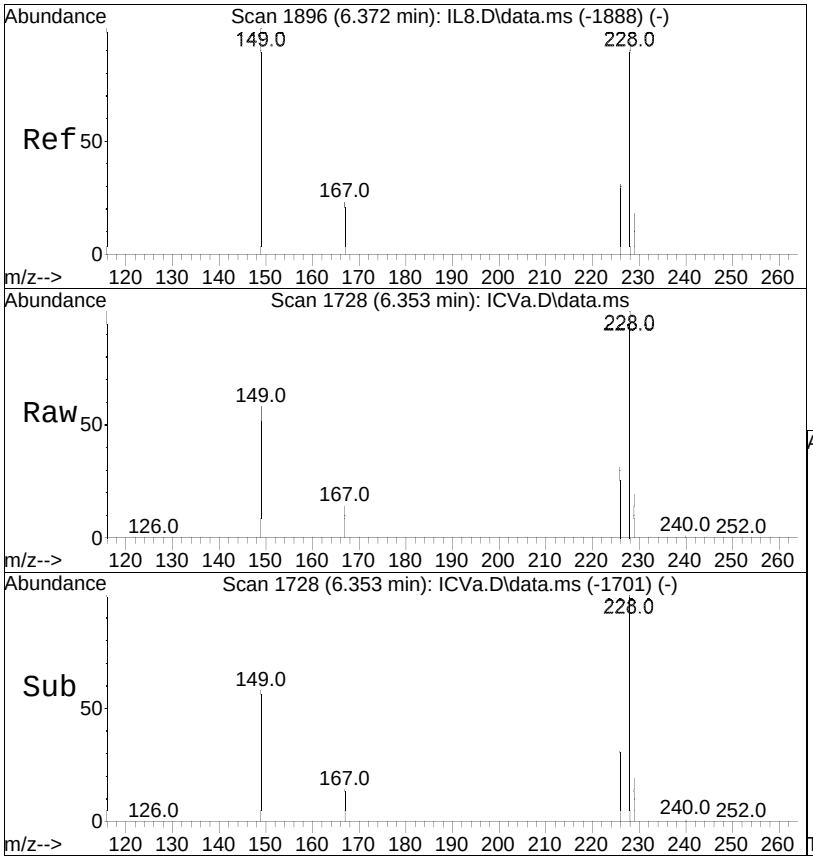


#34
Chrysene
Concen: 932.50 ng/ml
RT: 6.353 min Scan# 1728
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:228 Resp: 185135

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.1	37.7

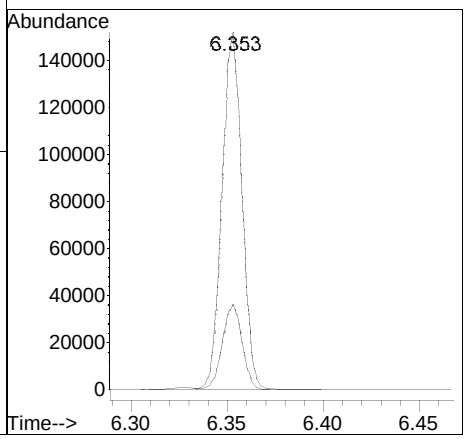


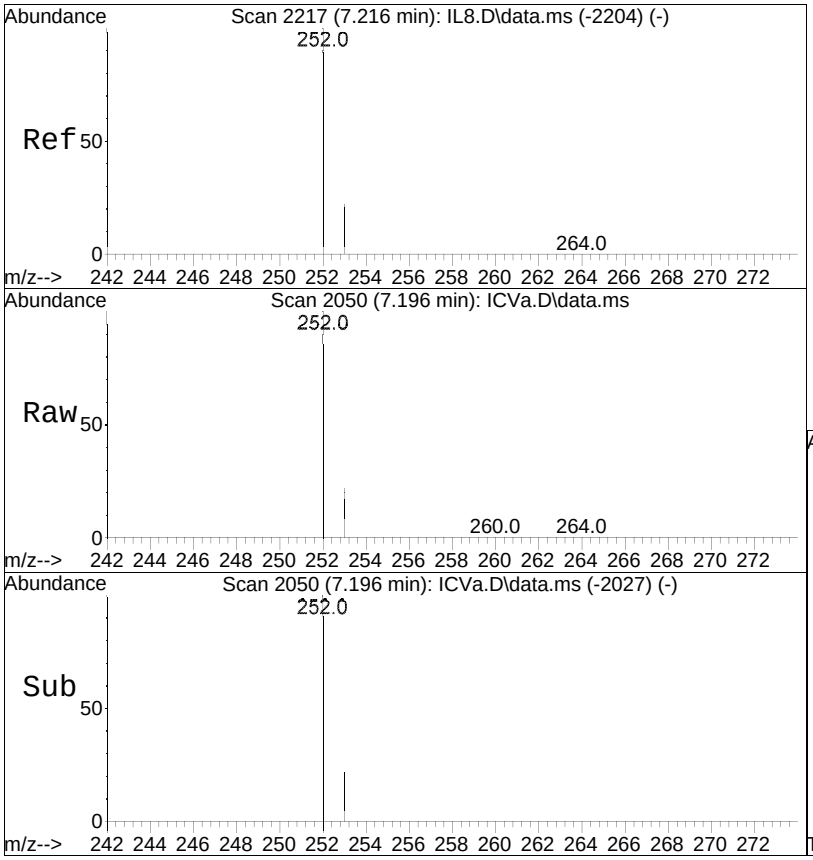


#35
Bis(2-ethylhexyl)phthalate
Concen: 808.77 ng/ml
RT: 6.353 min Scan# 1728
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:149 Resp: 107790

Ion	Ratio	Lower	Upper
149	100		
167	24.1	19.2	28.8

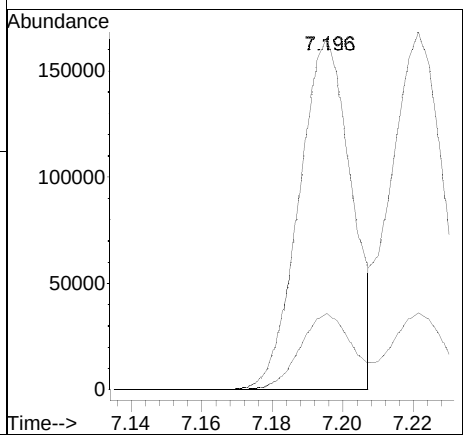


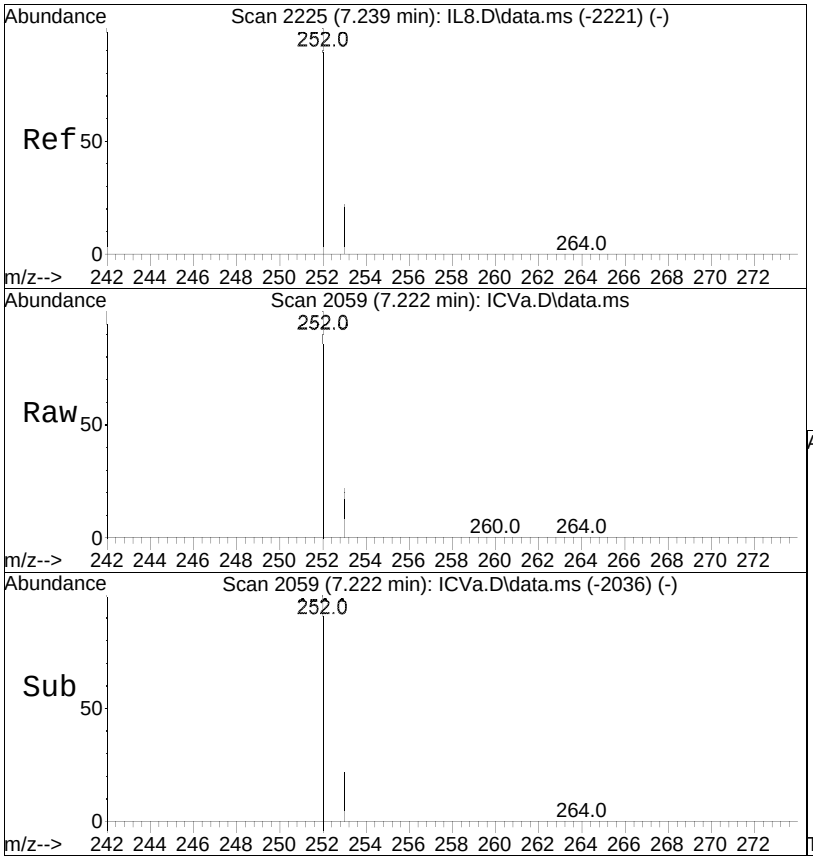


#37
Benzo[b]fluoranthene
Concen: 960.76 ng/ml
RT: 7.196 min Scan# 2050
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 170922

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

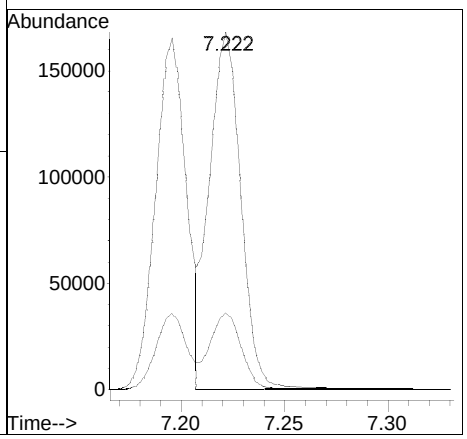


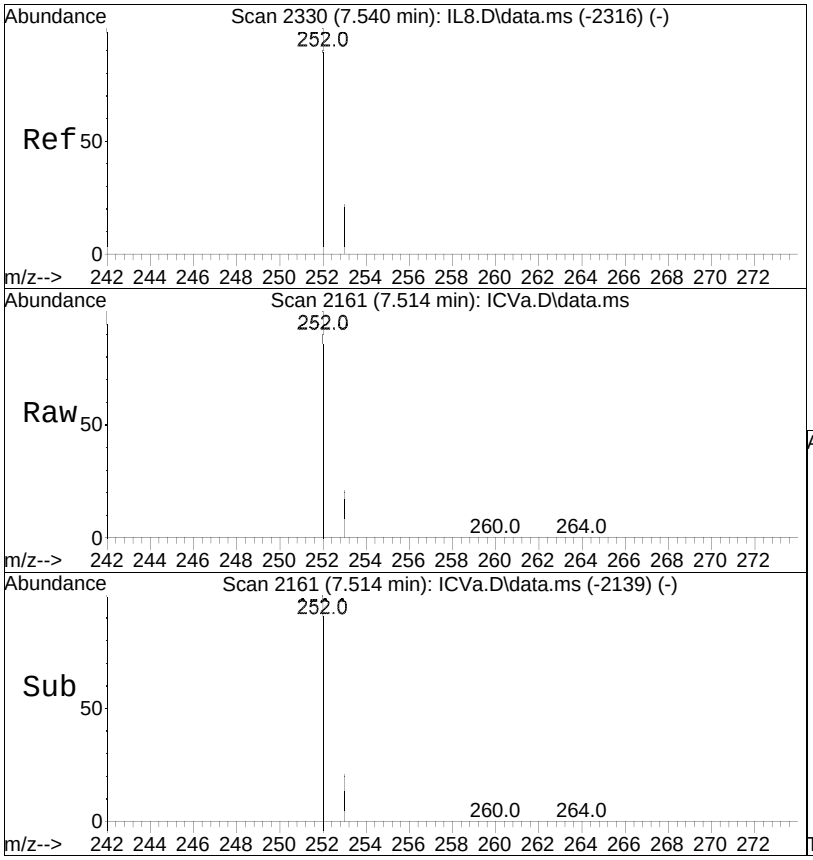


#38
Benzo[k]fluoranthene
Concen: 1038.03 ng/ml
RT: 7.222 min Scan# 2059
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 175807

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3

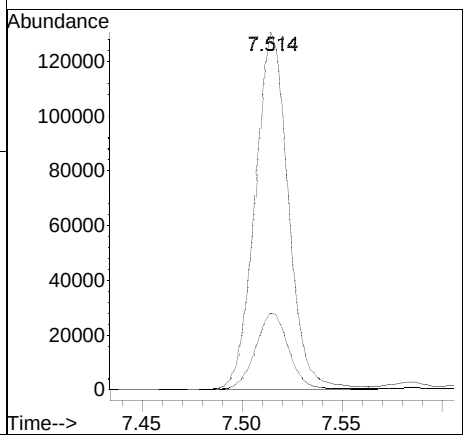


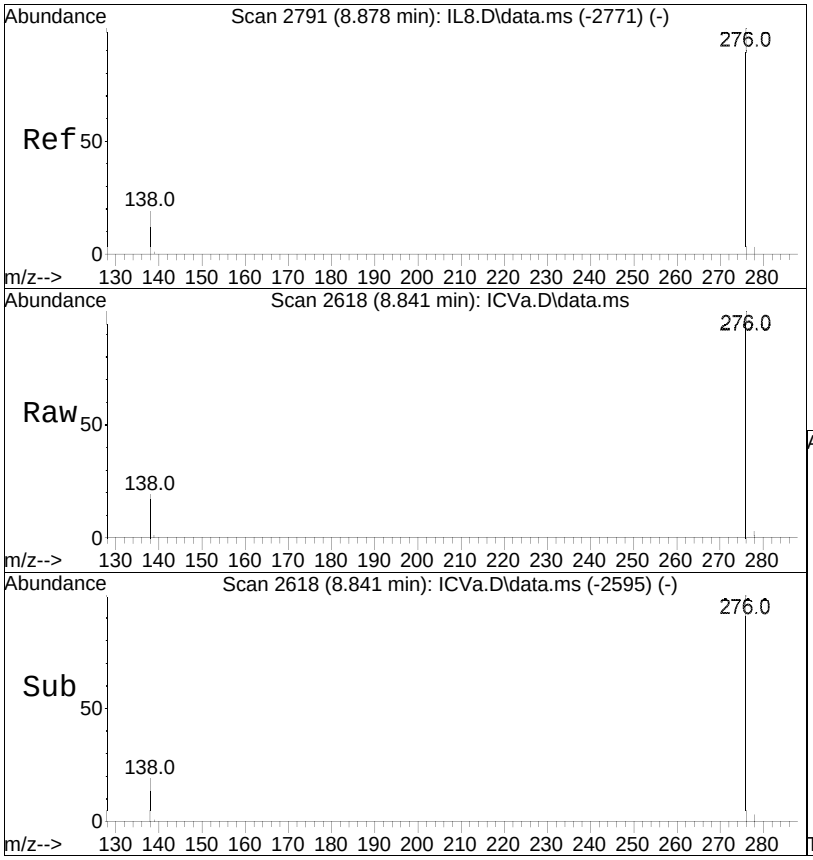


#39
Benzo[a]pyrene
Concen: 1017.95 ng/ml
RT: 7.514 min Scan# 2161
Delta R.T. -0.017 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 149283

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

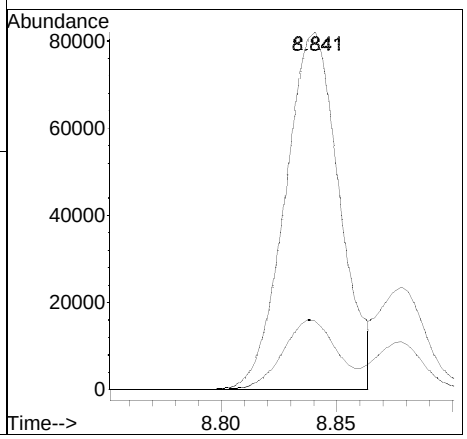


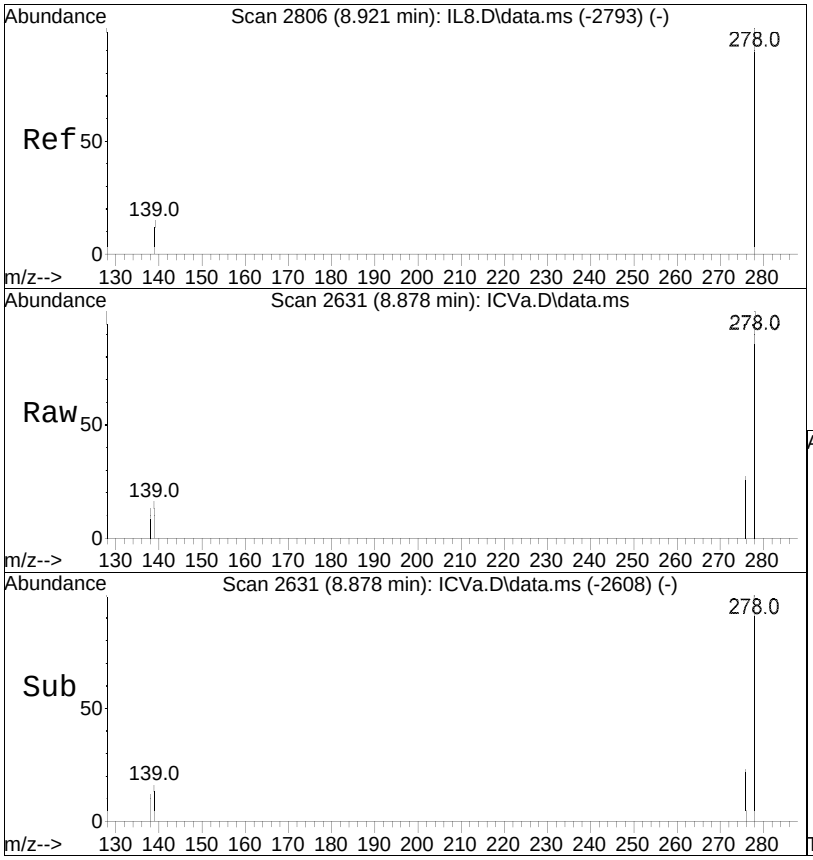


#40
Indeno[1,2,3-cd]pyrene
Concen: 967.78 ng/ml
RT: 8.841 min Scan# 2618
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:276 Resp: 133663

Ion	Ratio	Lower	Upper
276	100		
138	19.2	16.6	24.8

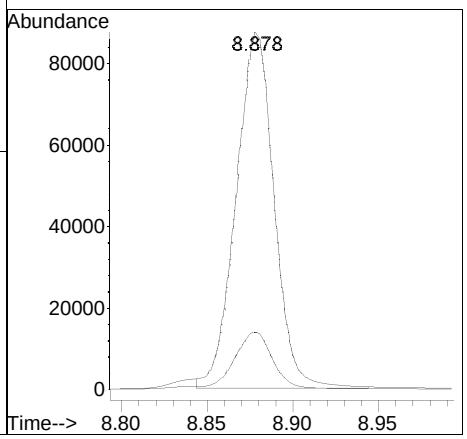


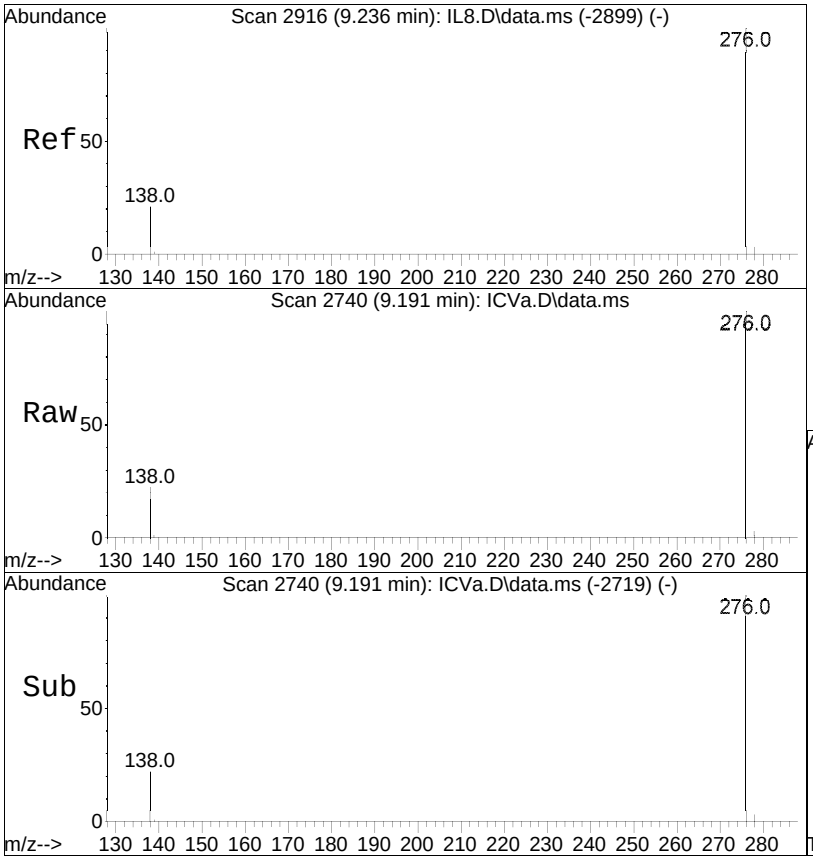


#41
Dibenzo[a,h]anthracene
Concen: 1014.95 ng/ml M6
RT: 8.878 min Scan# 2631
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:278 Resp: 134229

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.0	21.0

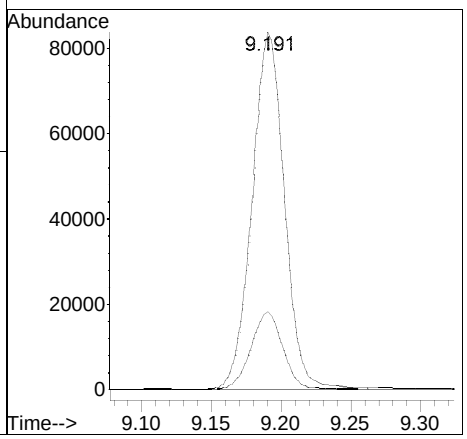




#42
Benzo[g,h,i]perylene
Concen: 945.66 ng/ml
RT: 9.191 min Scan# 2740
Delta R.T. -0.019 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:276 Resp: 132877

Ion	Ratio	Lower	Upper
276	100		
138	21.7	17.8	26.8

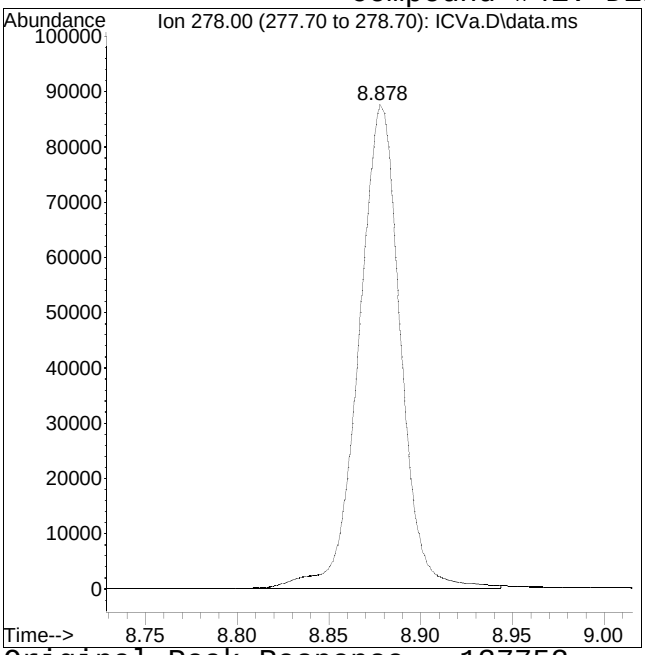


Manual Integration Report

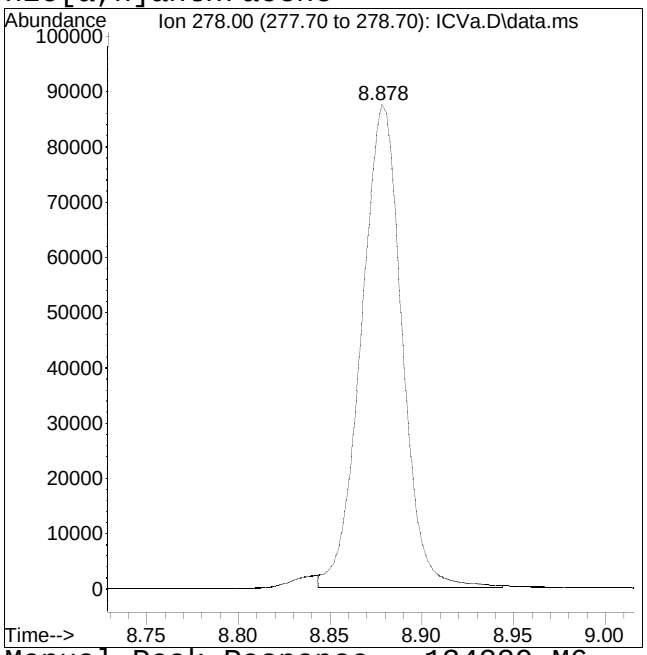
Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : ICVa.D
Date Inj'd : 5/22/2024 1:49 pm
Sample : CQICV,32,,1000.0ng/mL lot

Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:03 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 137752



Manual Peak Response = 134229 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\240521RVTical\
Method File : SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu May 30 15:58:11 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	L	ng/ml	1000.0	966.239	-3.4	40.00	46.308	15.8
19 T	2,4-Dinitrotoluene	L	ng/ml	1000.0	992.757	-0.7	40.00	44.881	12.2
21 S	2,4,6-Tribromophenol	L	ng/ml	1000.0	1003.133	0.3	5.00	7.008	40.2
23 T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	1003.249	0.3	40.00	49.087	22.7
25 T	Pentachlorophenol	L	ng/ml	1000.0	966.229	-3.4	40.00	53.577	33.9
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	1041.595	4.2	2.00	2.711	35.5
35 T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	942.425	-5.8	40.00	52.192	30.5

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Linear	0.999448	0.000000	0.183839	-0.000895016
19 T	2,4-Dinitrotoluene	Linear	0.999511	0.000000	0.45501	-0.00231271
21 S	2,4,6-Tribromophenol	Linear	0.998848	0.000000	0.272783	-0.000292982
23 T	4,6-Dinitro-o-cresol	Quadratic	0.998456	0.005565	0.120149	-0.000968136
25 T	Pentachlorophenol	Linear	0.997306	0.000000	0.173818	-0.00194907
32 T	Benzo[a]anthracene	Linear	0.999149	0.000000	1.5238	0.00281616
35 T	Bis(2-ethylhexyl)phthalate	Linear	0.996952	0.000000	1.01011	-0.00743669

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV125	**Calibration Date**	: 06/20/24 11:08		
Lab File ID	: CCV0620	**Init. Calib. Date(s)**	: 02/23/24	02/23/24	
Sample No	: WG1937057-3	**Init. Calib. Times**	: 14:31	16:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	128	0
2-Fluorophenol	1.183	1.181	.05	0.2	20	122	0
Phenol-d6	1.37	1.427	.05	-4.2	20	125	0
Bis(2-chloroethyl)ether	1.221	1.206	.05	1.2	20	126	0
n-nitrosodi-n-propylamine	0.788	0.834	.05	-5.8	20	119	0
Hexachloroethane	0.543	0.525	.05	3.3	20	120	0
Nitrobenzene-d5	1.109	1.25	.05	-12.7	20	129	0
Naphthalene-d8	1	1	.05	0	20	136	0
Naphthalene	1.117	1.012	.05	9.4	20	125	0
Hexachlorobutadiene	0.213	0.181	.05	15	20	115	0
2-Methylnaphthalene	0.715	0.722	.05	-1	20	137	0
1-Methylnaphthalene	0.677	0.653	.05	3.5	20	132	0
2-Fluorobiphenyl	0.918	0.792	.05	13.7	20	117	0
2-Chloronaphthalene	0.796	0.706	.05	11.3	20	118	0
2,6-Dinitrotoluene	1000	921.365	.05	7.9	20	121	0
Acenaphthylene	1.184	1.11	.05	6.2	20	115	0
Acenaphthene-d10	1	1	.05	0	20	129	0
Acenaphthene	1.368	1.286	.05	6	20	118	0
2,4-Dinitrotoluene	1000	943.079	.05	5.7	20	118	0
Fluorene	1.565	1.445	.05	7.7	20	112	0
2,4,6-Tribromophenol	0.223	0.212	.05	4.9	20	104	0
Phenanthrene-d10	1	1	.05	0	20	121	0
4,6-Dinitro-o-cresol	1000	1002.173	.05	-0.2	20	120	0
Hexachlorobenzene	0.277	0.223	.05	19.5	20	95	0
Pentachlorophenol	1000	833.991	.05	16.6	20	98	0
Phenanthrene	1.157	1.03	.05	11	20	106	0
Anthracene	1.117	1.049	.05	6.1	20	105	0
Fluoranthene	1.341	1.213	.05	9.5	20	101	0
Pyrene	1.402	1.246	.05	11.1	20	99	0
4-Terphenyl-d14	0.817	0.663	.05	18.8	20	97	0
Chrysene-d12	1	1	.05	0	20	108	0
Benzo[a]anthracene	1000	881.815	.05	11.8	20	90	0
3,3'-Dichlorobenzene	1000	801.559	.05	19.8	20	84	0
Chrysene	1.429	1.341	.05	6.2	20	90	0
Bis(2-ethylhexyl)phthalate	1000	843.794	.05	15.6	20	93	0
Perylene-d12	1	1	.05	0	20	100	0
Benzo[b]fluoranthene	1.392	1.363	.05	2.1	20	83	0
Benzo[k]fluoranthene	1.299	1.257	.05	3.2	20	90	0
Benzo[a]pyrene	1.155	1.182	.05	-2.3	20	87	0
Indeno[1,2,3-cd]pyrene	1.15	1.129	.05	1.8	20	87	0
Dibenzo[a,h]anthracene	1.066	1.024	.05	3.9	20	85	0
Benzo[g,h,i]perylene	1.158	1.071	.05	7.5	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/21/24 09:01		
Lab File ID	: CCV0621	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1937540-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	75	0
2-Fluorophenol	1.189	1.082	.05	9	20	64	0
Phenol-d6	1.429	1.319	.05	7.7	20	65	0
Bis(2-chloroethyl)ether	1.263	1.171	.05	7.3	20	69	0
n-nitrosodi-n-propylamine	0.866	0.846	.05	2.3	20	67	0
Hexachloroethane	0.572	0.544	.05	4.9	20	69	0
Nitrobenzene-d5	1.273	1.254	.05	1.5	20	69	0
Naphthalene-d8	1	1	.05	0	20	76	0
Naphthalene	1.131	1	.05	11.6	20	68	0
Hexachlorobutadiene	0.216	0.212	.05	1.9	20	73	0
2-Methylnaphthalene	0.705	0.68	.05	3.5	20	70	0
1-Methylnaphthalene	0.664	0.621	.05	6.5	20	70	0
2-Fluorobiphenyl	0.851	0.807	.05	5.2	20	71	0
2-Chloronaphthalene	0.721	0.686	.05	4.9	20	70	0
2,6-Dinitrotoluene	1000	938.335	.05	6.2	20	74	0
Acenaphthylene	1.061	1.055	.05	0.6	20	68	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.372	1.249	.05	9	20	73	0
2,4-Dinitrotoluene	1000	888.455	.05	11.2	20	73	0
Fluorene	1.479	1.368	.05	7.5	20	73	0
2,4,6-Tribromophenol	1000	921.295	.05	7.9	20	75	0
Phenanthrene-d10	1	1	.05	0	20	86	0
4,6-Dinitro-o-cresol	1000	893.242	.05	10.7	20	76	0
Hexachlorobenzene	0.288	0.26	.05	9.7	20	75	0
Pentachlorophenol	1000	892.374	.05	10.8	20	79	0
Phenanthrene	1.125	0.992	.05	11.8	20	71	0
Anthracene	1.111	0.984	.05	11.4	20	72	0
Fluoranthene	1.22	1.139	.05	6.6	20	77	0
Pyrene	1.265	1.171	.05	7.4	20	76	0
4-Terphenyl-d14	0.814	0.789	.05	3.1	20	85	0
Chrysene-d12	1	1	.05	0	20	99	0
Benzo[a]anthracene	1000	839.319	.05	16.1	20	80	0
3,3'-Dichlorobenzene	0.533	0.5	.05	6.2	20	84	0
Chrysene	1.45	1.252	.05	13.7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	887.611	.05	11.2	20	94	0
Perylene-d12	1	1	.05	0	20	109	0
Benzo[b]fluoranthene	1.323	1.159	.05	12.4	20	85	0
Benzo[k]fluoranthene	1.259	1.239	.05	1.6	20	97	0
Benzo[a]pyrene	1.09	1.073	.05	1.6	20	93	0
Indeno[1,2,3-cd]pyrene	1.027	1.093	.05	-6.4	20	107	0
Dibenzo[a,h]anthracene	0.983	1.062	.05	-8	20	104	0
Benzo[g,h,i]perylene	1.045	1.035	.05	1	20	101	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : ccv0620.D
Acq On : 20 Jun 2024 11:08 am
Operator : SV125:jjw
Sample : WG1937057-3,32,,ICV #10475 (0617)
Misc : WG1937057,,ical20885
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 20 11:23:51 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:29 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00
2	T	1,4-Dioxane	0.000	0.000#	0.0	0#	-1.90#
3	s	2-Fluorophenol	1.183	1.181	0.2	122	0.00
4	s	Phenol-d6	1.370	1.427	-4.2	125	0.00
5	T	Bis(2-chloroethyl)ether	1.221	1.206	1.2	126	0.00
6	T	n-nitrosodi-n-propylamine	0.788	0.834	-5.8	119	0.00
7	t	Hexachloroethane	0.543	0.525	3.3	120	0.00
8	s	Nitrobenzene-d5	1.109	1.250	-12.7	129	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	136	0.00
10	t	Naphthalene	1.117	1.012	9.4	125	0.00
11	t	Hexachlorobutadiene	0.213	0.181	15.0	115	0.00
12	t	2-Methylnaphthalene	0.715	0.722	-1.0	137	0.00
13	t	1-Methylnaphthalene	0.677	0.653	3.5	132	0.00
14	s	2-Fluorobiphenyl	0.918	0.792	13.7	117	0.00
15	t	2-Chloronaphthalene	0.796	0.706	11.3	118	0.00
16	t	2,6-Dinitrotoluene	*1000.000	921.365	7.9	121	0.00
17	t	Acenaphthylene	1.184	1.110	6.2	115	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	129	0.00
19	t	Acenaphthene	1.368	1.286	6.0	118	0.00
20	t	2,4-Dinitrotoluene	*1000.000	943.079	5.7	118	0.00
21	t	Fluorene	1.565	1.445	7.7	112	0.00
22	s	2,4,6-Tribromophenol	0.223	0.212	4.9	104	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	121	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	1002.173	-0.2	120	0.00
25	t	Hexachlorobenzene	0.277	0.223	19.5	95	0.00
26	t	Pentachlorophenol	*1000.000	833.991	16.6	98	0.00
27	t	Phenanthrene	1.157	1.030	11.0	106	0.00
28	t	Anthracene	1.117	1.049	6.1	105	0.00
29	t	Fluoranthene	1.341	1.213	9.5	101	0.00
30	t	Pyrene	1.402	1.246	11.1	99	0.00
31	s	4-Terphenyl-d14	0.817	0.663	18.8	97	0.00
32	i	Chrysene-d12	1.000	1.000	0.0	108	0.00
33	t	Benzo[a]anthracene	*1000.000	881.815	11.8	90	0.00
34	t	3,3'-Dichlorobenzene	*1000.000	801.559	19.8	84	0.00
35	t	Chrysene	1.429	1.341	6.2	90	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : ccv0620.D
Acq On : 20 Jun 2024 11:08 am
Operator : SV125:jjw
Sample : WG1937057-3,32,,ICV #10475 (0617)
Misc : WG1937057,,ical20885
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 20 11:23:51 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:29 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	T	Bis(2-ethylhexyl)phthalate	*1000.000	843.794	15.6	93	0.00
37	i	Perylene-d12	1.000	1.000	0.0	100	0.00
38	t	Benzo[b]fluoranthene	1.392	1.363	2.1	83	0.00
39	t	Benzo[k]fluoranthene	1.299	1.257	3.2	90	0.00
40	t	Benzo[a]pyrene	1.155	1.182	-2.3	87	0.00
41	t	Indeno[1,2,3-cd]pyrene	1.150	1.129	1.8	87	0.00
42	t	Dibenzo[a,h]anthracene	1.066	1.024	3.9	85	0.00
43	t	Benzo[g,h,i]perylene	1.158	1.071	7.5	84	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : ccv0620.D
Acq On : 20 Jun 2024 11:08 am
Operator : SV125:jjw
Sample : WG1937057-3,32,,ICV #10475 (0617)
Misc : WG1937057,,ical20885
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 20 11:23:51 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:29 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.094	152	473486	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.762	136	1820585	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.743	164	1037750	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.580	188	2113663	4000.000	ng/ml	0.00
32) Chrysene-d12	6.153	240	1598607	4000.000	ng/ml	0.00
37) Perylene-d12	7.263	264	1571336	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.509	112	139794	998.264	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.97%			
4) Phenol-d6	1.911	99	168880	1041.659	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.83%			
8) Nitrobenzene-d5	2.377	82	147909	1126.218	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 45.05%			
14) 2-Fluorobiphenyl	3.367	172	360676	862.758	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 34.51%			
22) 2,4,6-Tribromophenol	4.189	330	55013	950.328	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.01%			
31) 4-Terphenyl-d14	5.508	244	350267	810.994	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 32.44%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.960	93	142733	987.926	ng/ml	96
6) n-nitrosodi-n-propylamine	2.299	70	98680	1058.126	ng/ml	97
7) Hexachloroethane	2.354	117	62127	967.440	ng/ml	99
10) Naphthalene	2.774	128	460681	906.361	ng/ml#	100
11) Hexachlorobutadiene	2.848	225	82212	848.806	ng/ml	100
12) 2-Methylnaphthalene	3.156	142	328705	1009.569	ng/ml	99
13) 1-Methylnaphthalene	3.211	142	297175	964.132	ng/ml	99
15) 2-Chloronaphthalene	3.428	162	321464	887.672	ng/ml	97
16) 2,6-Dinitrotoluene	3.627	165	77965	921.365	ng/ml	94
17) Acenaphthylene	3.660	152	505209	937.727	ng/ml	99
19) Acenaphthene	3.761	153	333668	940.438	ng/ml	93
20) 2,4-Dinitrotoluene	3.852	165	105742	943.079	ng/ml	95
21) Fluorene	4.051	166	374795	923.052	ng/ml	99
24) 4,6-Dinitro-o-cresol	4.082	198	52181	1002.173	ng/ml	97
25) Hexachlorobenzene	4.368	284	117635	804.287	ng/ml	98
26) Pentachlorophenol	4.480	266	63250	833.991	ng/ml	99
27) Phenanthrene	4.592	178	544338	890.597	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : ccv0620.D
Acq On : 20 Jun 2024 11:08 am
Operator : SV125:jjw
Sample : WG1937057-3,32,,ICV #10475 (0617)
Misc : WG1937057,,ical20885
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 20 11:23:51 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:29 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.622	178	554088	938.453	ng/ml	100
29) Fluoranthene	5.276	202	641225	904.720	ng/ml	98
30) Pyrene	5.409	202	658212	888.195	ng/ml	98
33) Benzo[a]anthracene	6.147	228	565706	881.815	ng/ml	100
34) 3,3'-Dichlorobenzene	6.139	252	211930	801.559	ng/ml	99
35) Chrysene	6.169	228	535992	938.822	ng/ml	98
36) Bis(2-ethylhexyl)phtha...	6.185	149	353064	843.794	ng/ml	100
38) Benzo[b]fluoranthene	6.918	252	535603	979.203	ng/ml	100
39) Benzo[k]fluoranthene	6.943	252	493965	968.244	ng/ml	100
40) Benzo[a]pyrene	7.200	252	464471	1024.036	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.378	276	443562	981.738	ng/ml	93
42) Dibenzo[a,h]anthracene	8.410	278	402307M6	960.540	ng/ml	
43) Benzo[g,h,i]perylene	8.691	276	420763	925.327	ng/ml	93

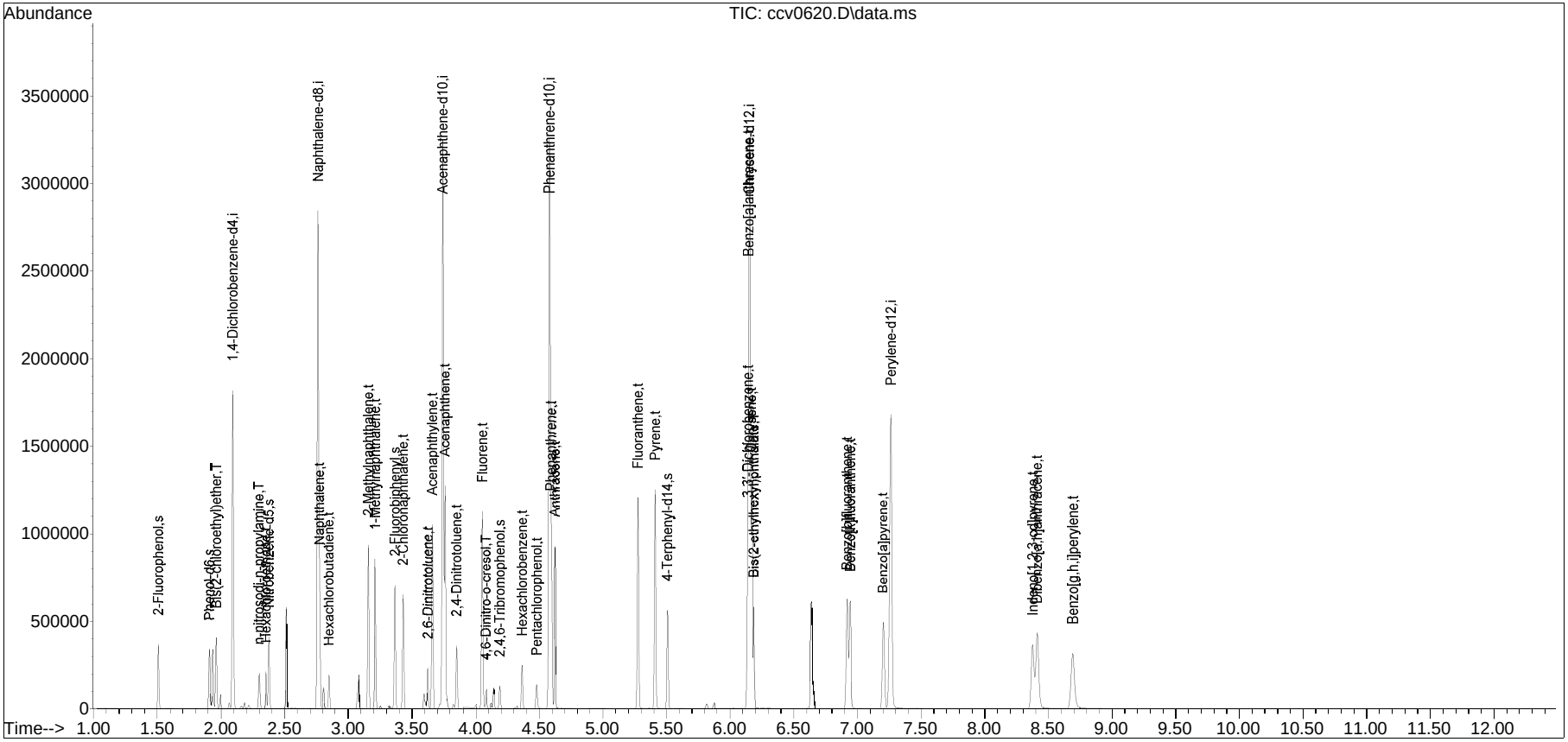
(#) = qualifier out of range (m) = manual integration (+) = signals summed

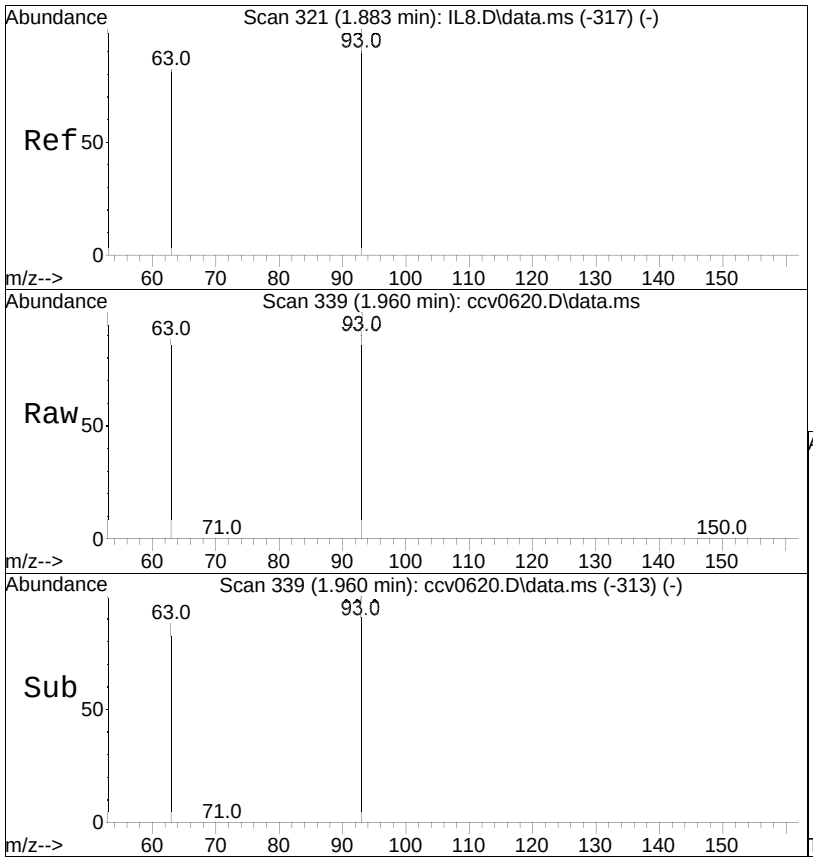
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : ccv0620.D
Acq On : 20 Jun 2024 11:08 am
Operator : SV125:jjw
Sample : WG1937057-3,32,,ICV #10475 (0617)
Misc : WG1937057,,ical20885
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 20 11:23:51 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:29 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

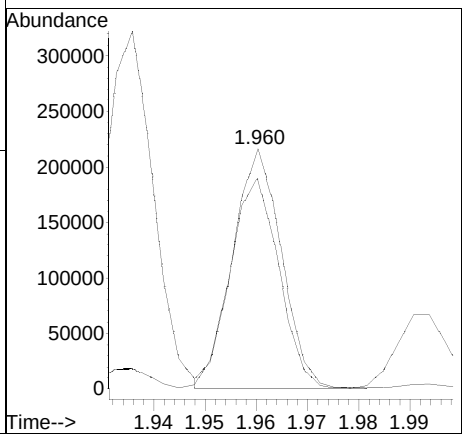


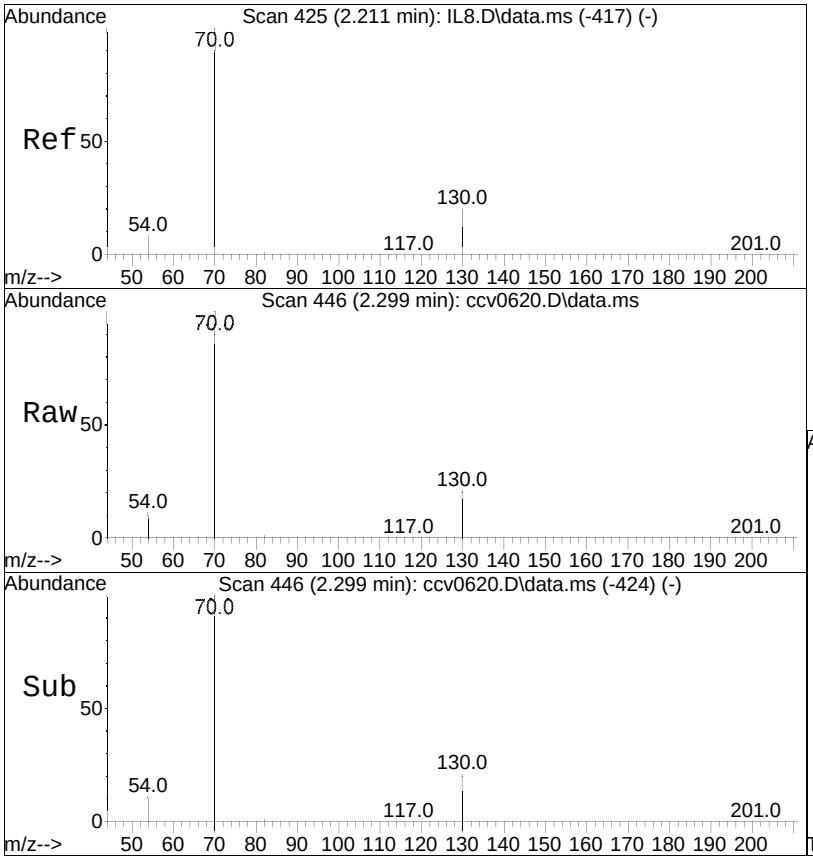


#5
Bis(2-chloroethyl)ether
Concen: 987.93 ng/ml
RT: 1.960 min Scan# 339
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion: 93 Resp: 142733

Ion	Ratio	Lower	Upper
93	100		
63	88.5	67.7	101.5

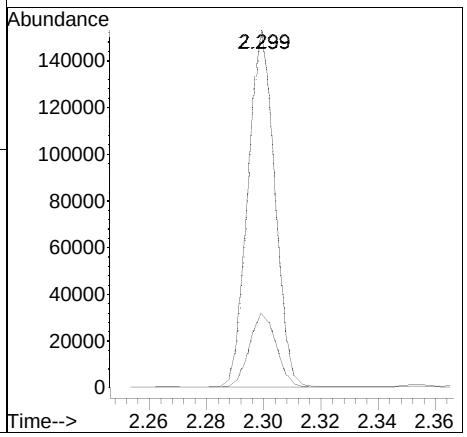


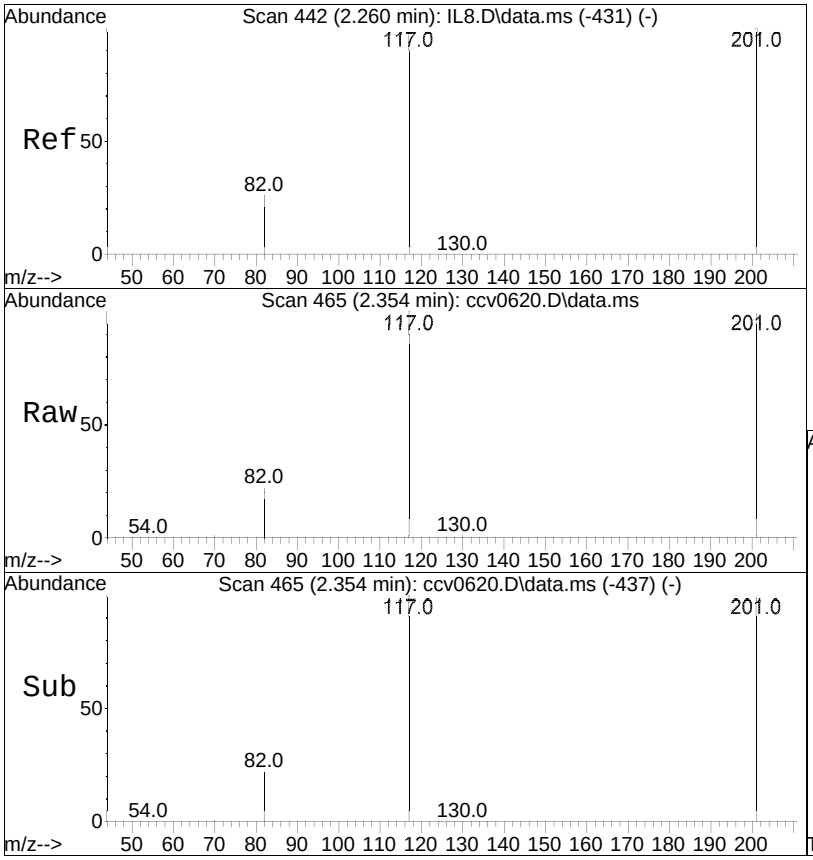


#6
n-nitrosodi-n-propylamine
Concen: 1058.13 ng/ml
RT: 2.299 min Scan# 446
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion: 70 Resp: 98680

Ion	Ratio	Lower	Upper
70	100		
130	21.1	15.7	23.5

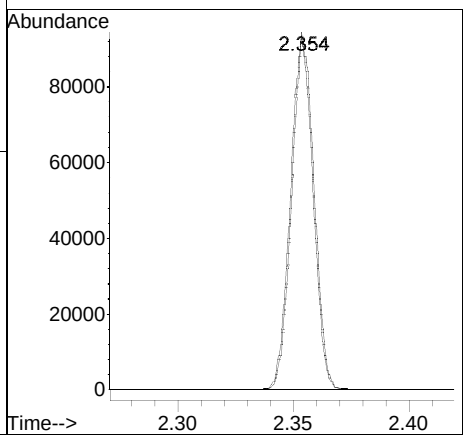


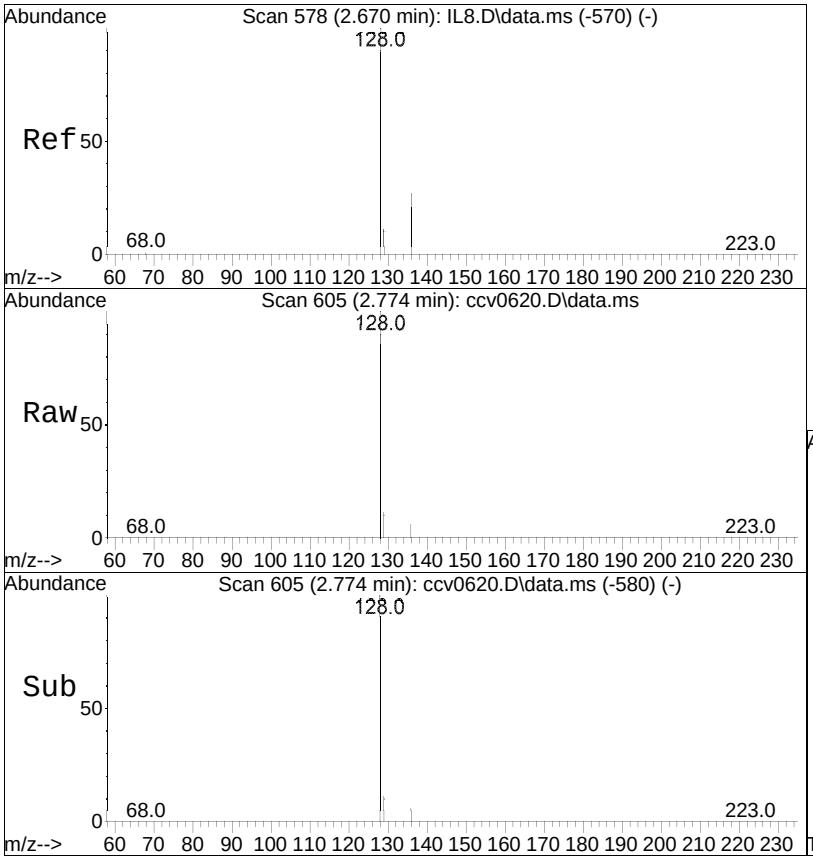


#7
Hexachloroethane
Concen: 967.44 ng/ml
RT: 2.354 min Scan# 465
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:117 Resp: 62127

Ion	Ratio	Lower	Upper
117	100		
201	99.8	80.8	121.2

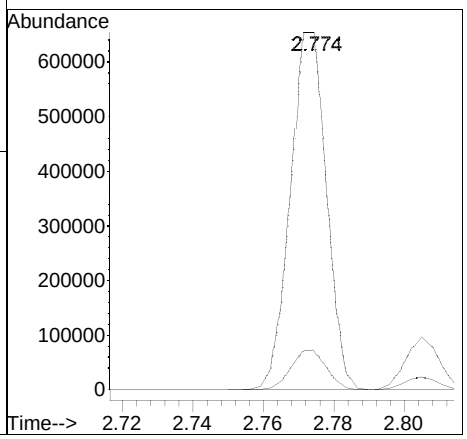


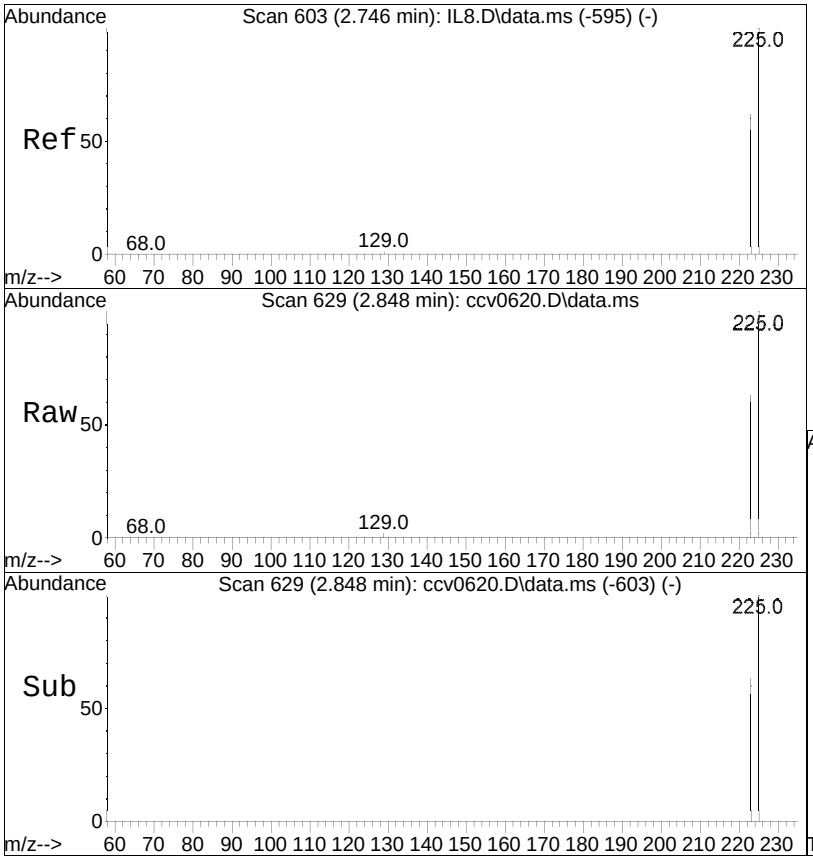


#10
Naphthalene
Concen: 906.36 ng/ml
RT: 2.774 min Scan# 605
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:128 Resp: 460681

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

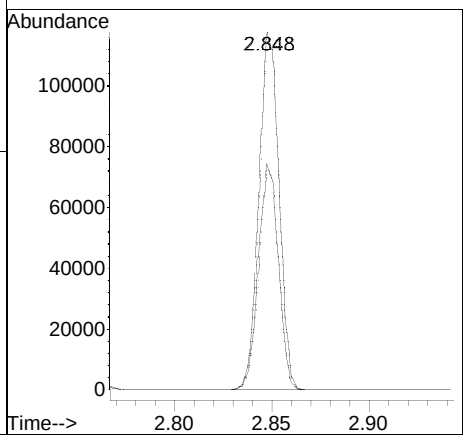


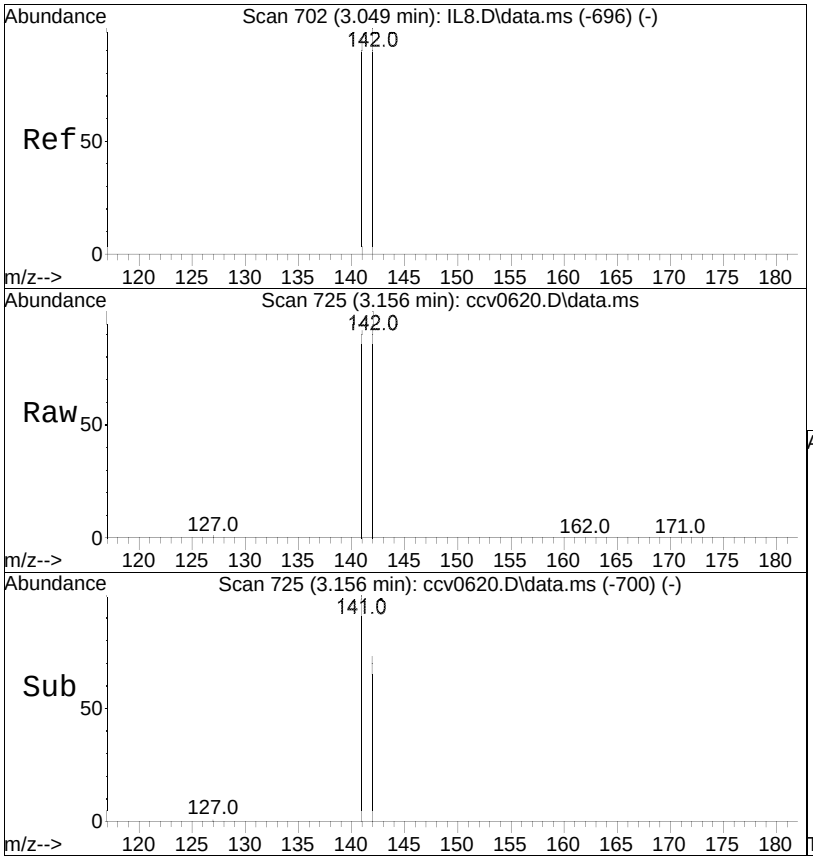


#11
Hexachlorobutadiene
Concen: 848.81 ng/ml
RT: 2.848 min Scan# 629
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:225 Resp: 82212

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.2	75.4

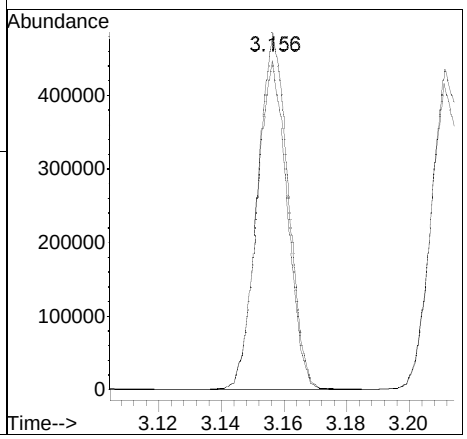


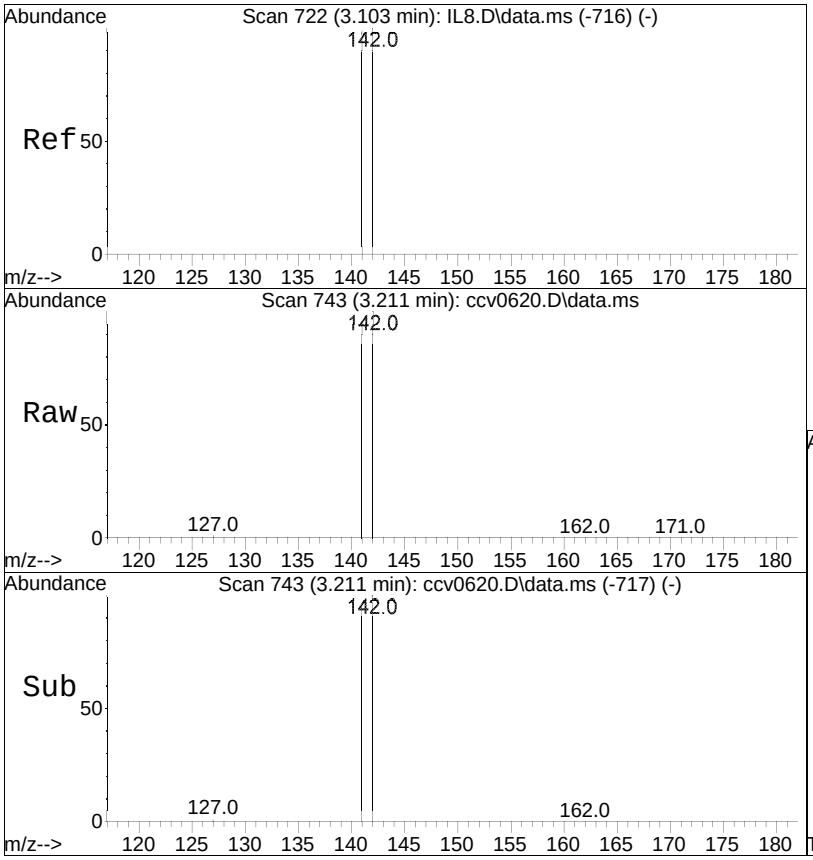


#12
2-Methylnaphthalene
Concen: 1009.57 ng/ml
RT: 3.156 min Scan# 725
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:142 Resp: 328705

Ion	Ratio	Lower	Upper
142	100		
141	91.9	74.4	111.6

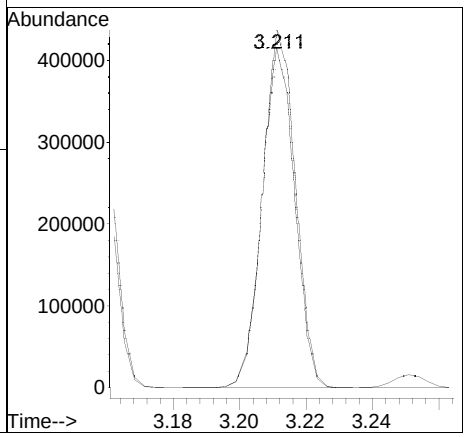


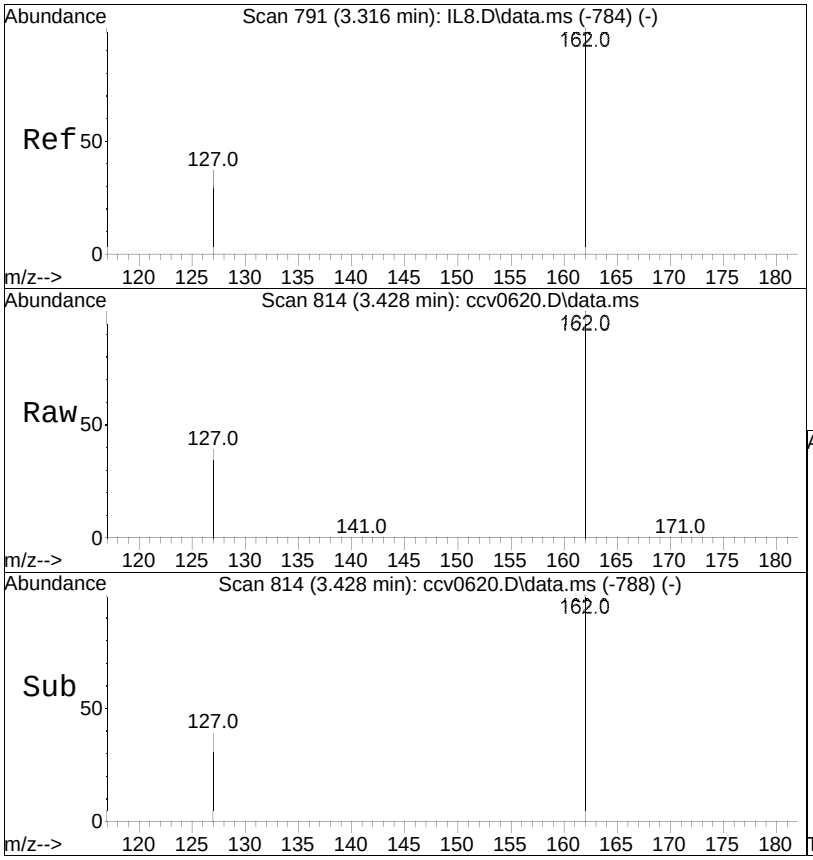


#13
1-Methylnaphthalene
Concen: 964.13 ng/ml
RT: 3.211 min Scan# 743
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:142 Resp: 297175

Ion	Ratio	Lower	Upper
142	100		
141	94.7	77.0	115.4

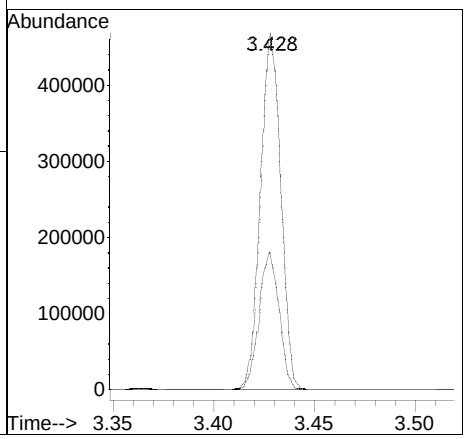


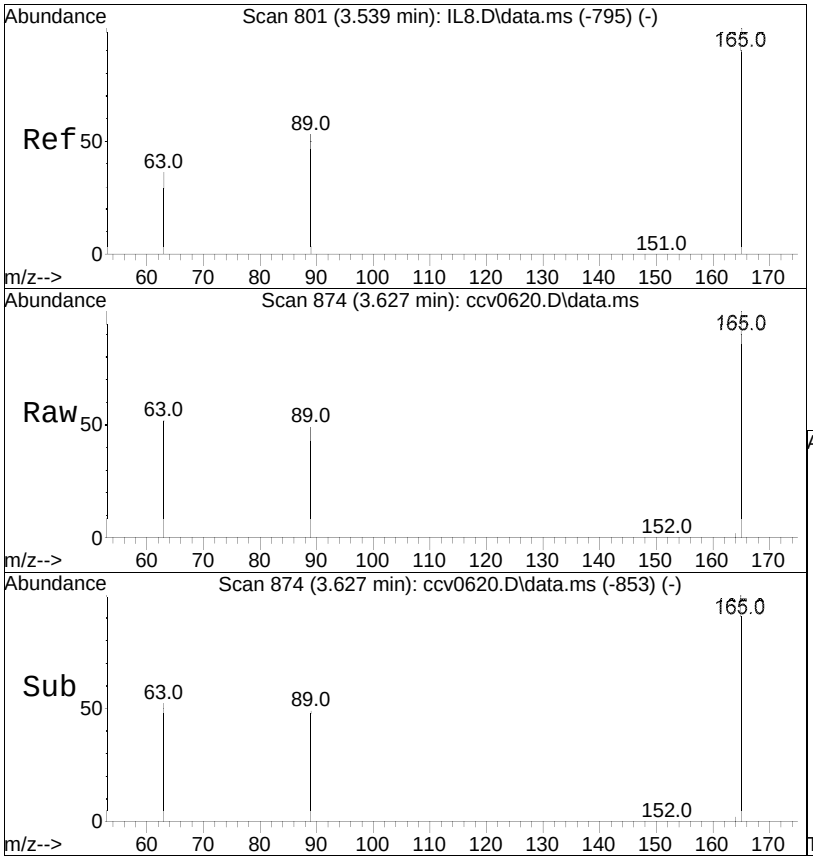


#15
2-Chloronaphthalene
Concen: 887.67 ng/ml
RT: 3.428 min Scan# 814
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:162 Resp: 321464

Ion	Ratio	Lower	Upper
162	100		
127	38.4	29.2	43.8

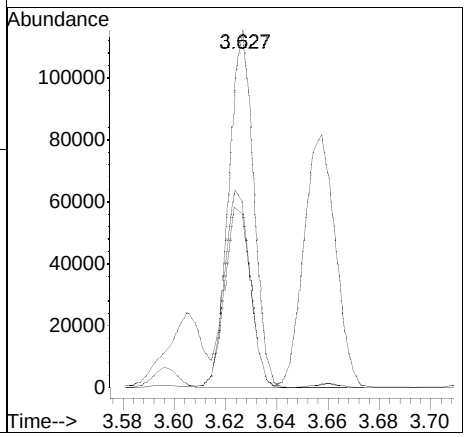


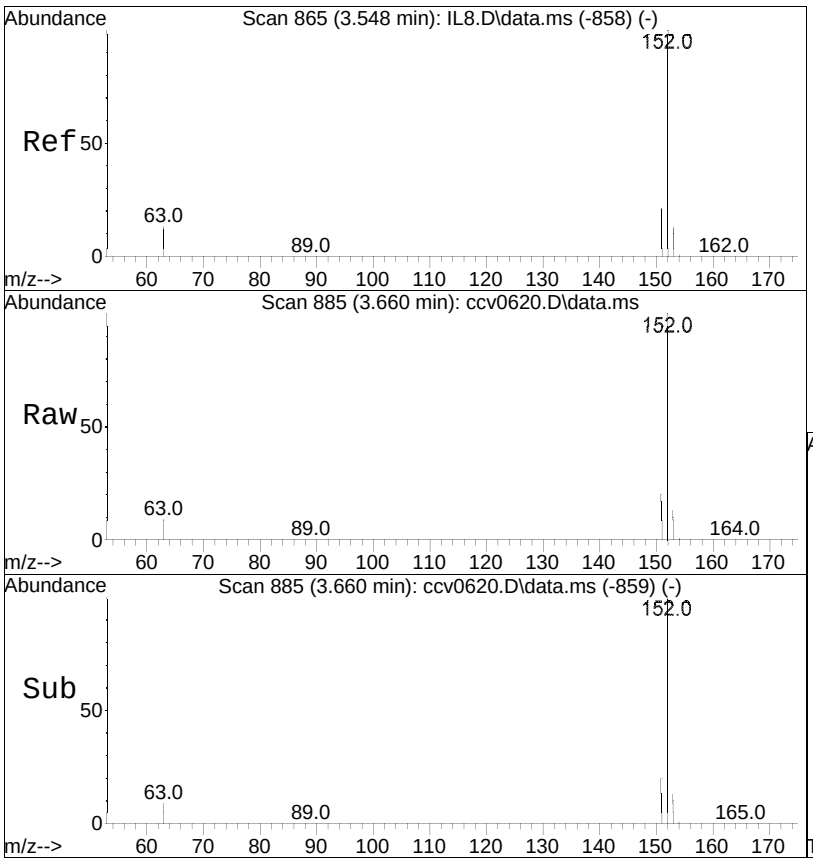


#16
2,6-Dinitrotoluene
Concen: 921.37 ng/ml
RT: 3.627 min Scan# 874
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:165 Resp: 77965

Ion	Ratio	Lower	Upper
165	100		
89	52.6	46.2	69.2
63	55.7	47.5	71.3

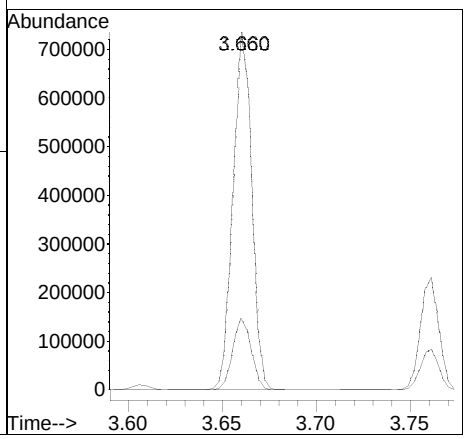


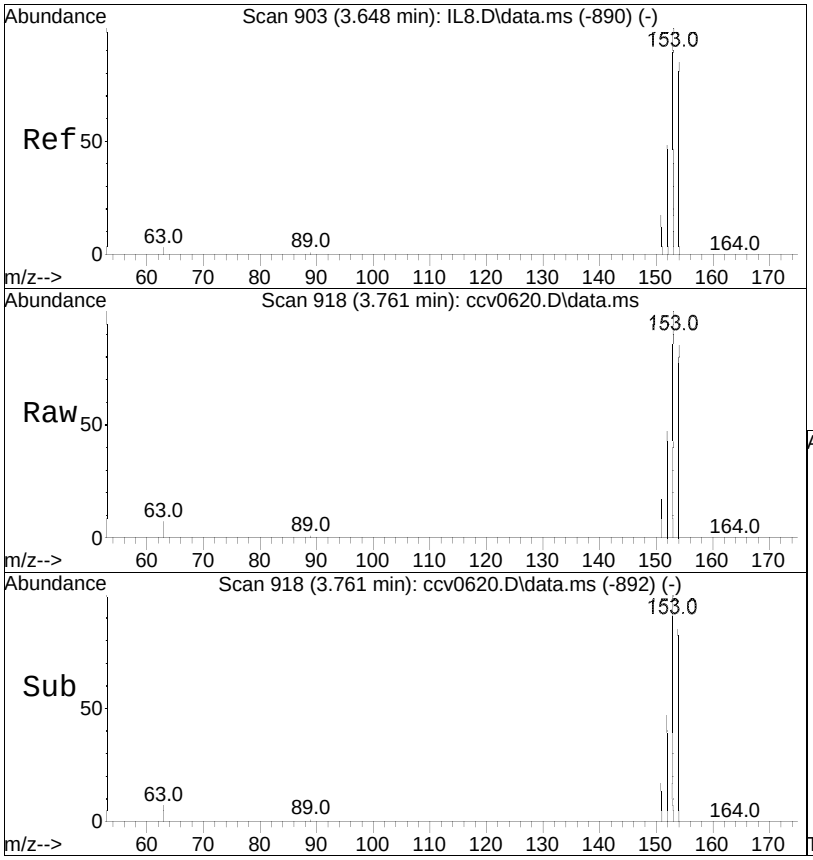


#17
Acenaphthylene
Concen: 937.73 ng/ml
RT: 3.660 min Scan# 885
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:152 Resp: 505209

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.4	24.6

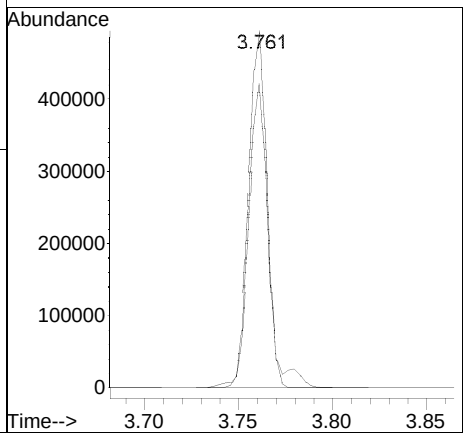


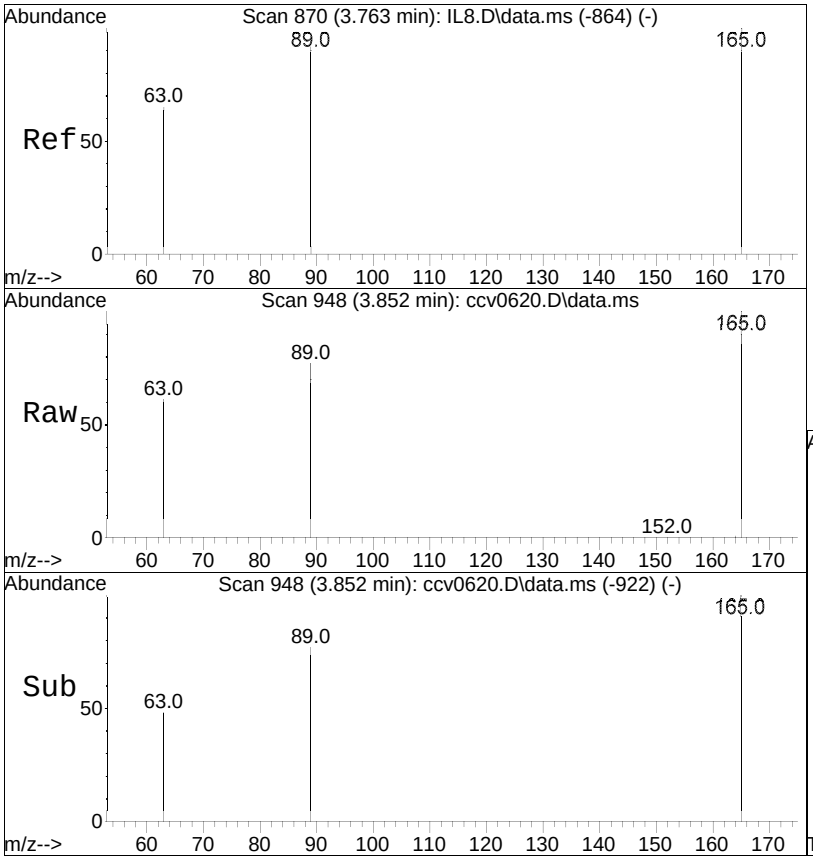


#19
Acenaphthene
Concen: 940.44 ng/ml
RT: 3.761 min Scan# 918
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:153 Resp: 333668

Ion	Ratio	Lower	Upper
153	100		
154	91.5	68.4	102.6

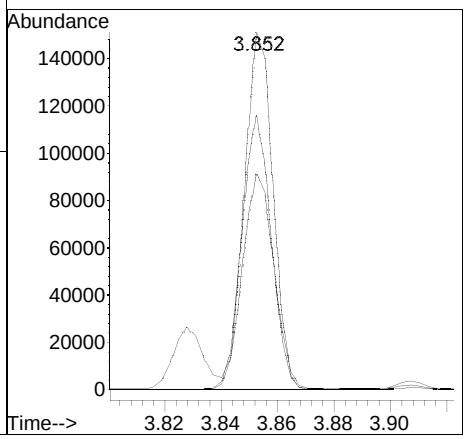


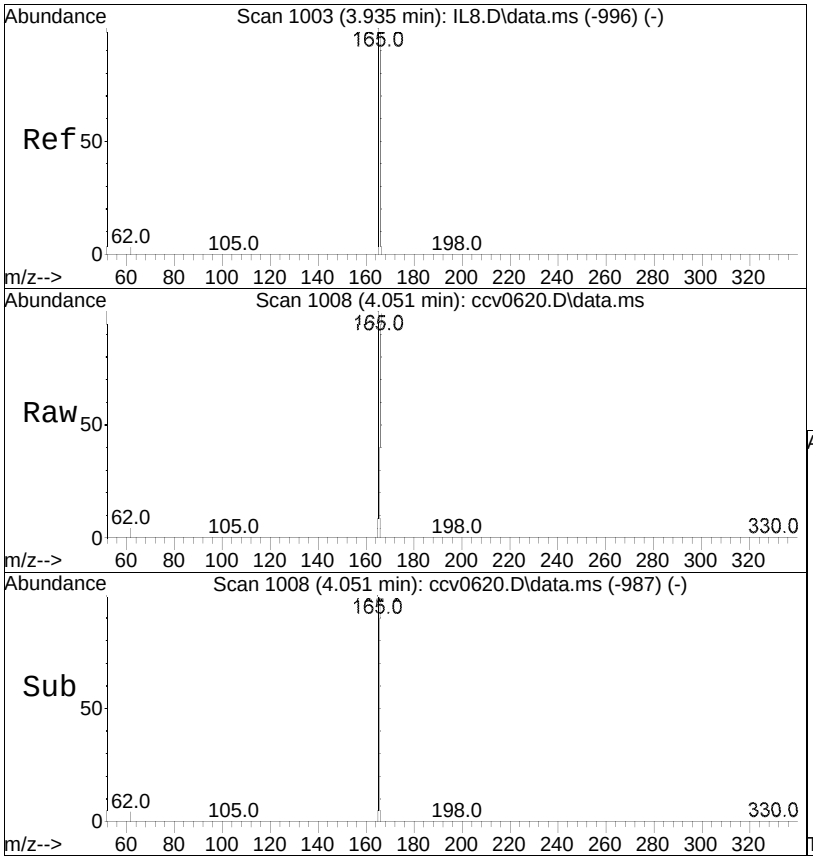


#20
2,4-Dinitrotoluene
Concen: 943.08 ng/ml
RT: 3.852 min Scan# 948
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:165 Resp: 105742

Ion	Ratio	Lower	Upper
165	100		
89	78.8	66.8	100.2
63	65.6	54.9	82.3

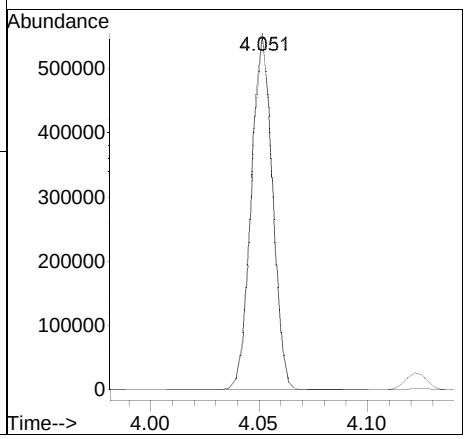


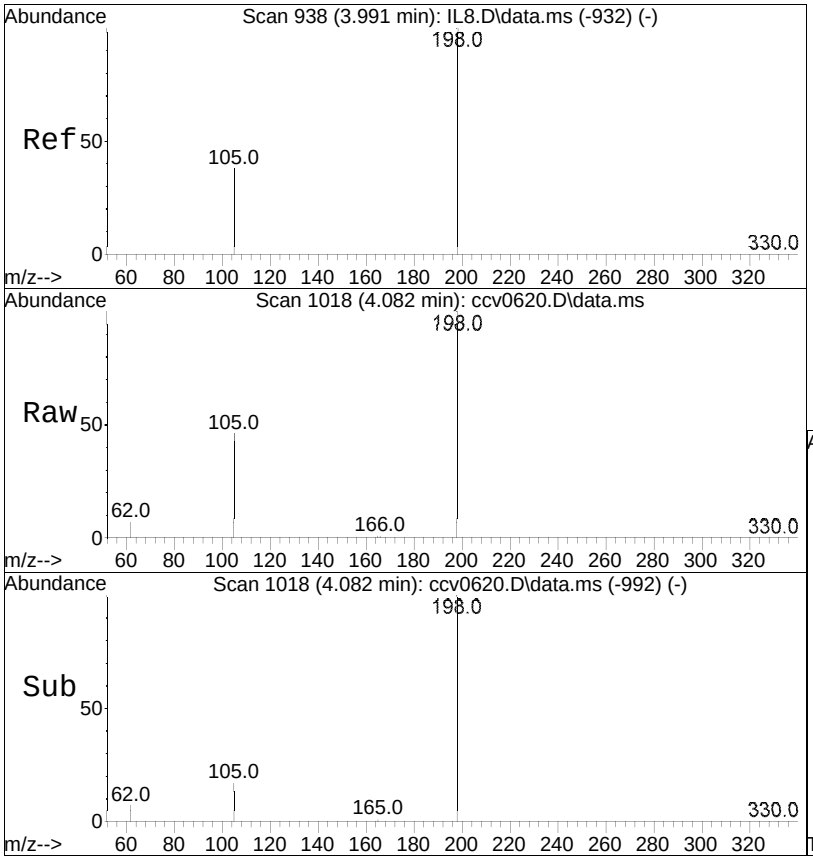


#21
Fluorene
Concen: 923.05 ng/ml
RT: 4.051 min Scan# 1008
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:166 Resp: 374795

Ion	Ratio	Lower	Upper
166	100		
165	101.2	81.7	122.5

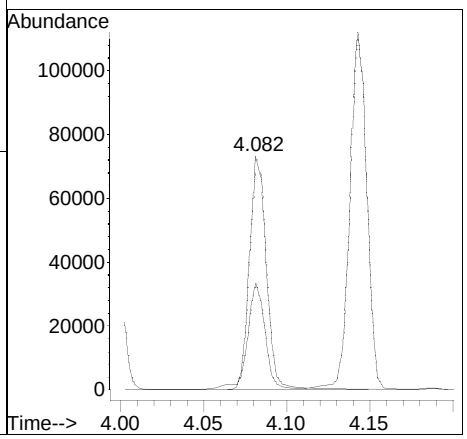


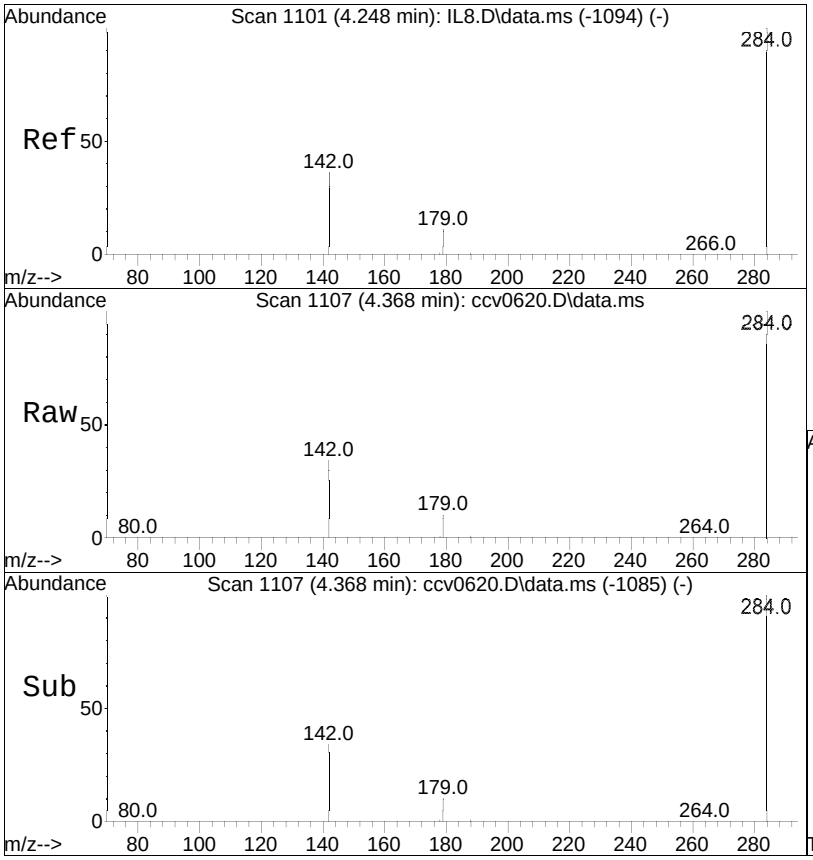


#24
4,6-Dinitro-o-cresol
Concen: 1002.17 ng/ml
RT: 4.082 min Scan# 1018
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:198 Resp: 52181

Ion	Ratio	Lower	Upper
198	100		
105	46.4	35.8	53.6

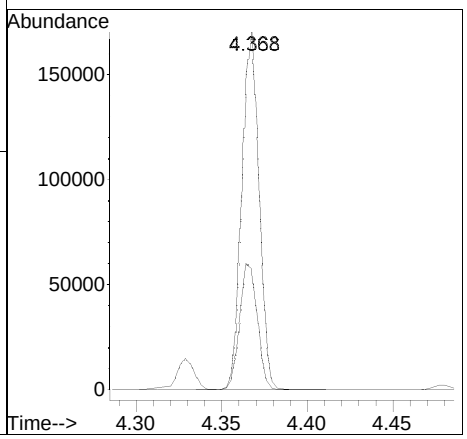


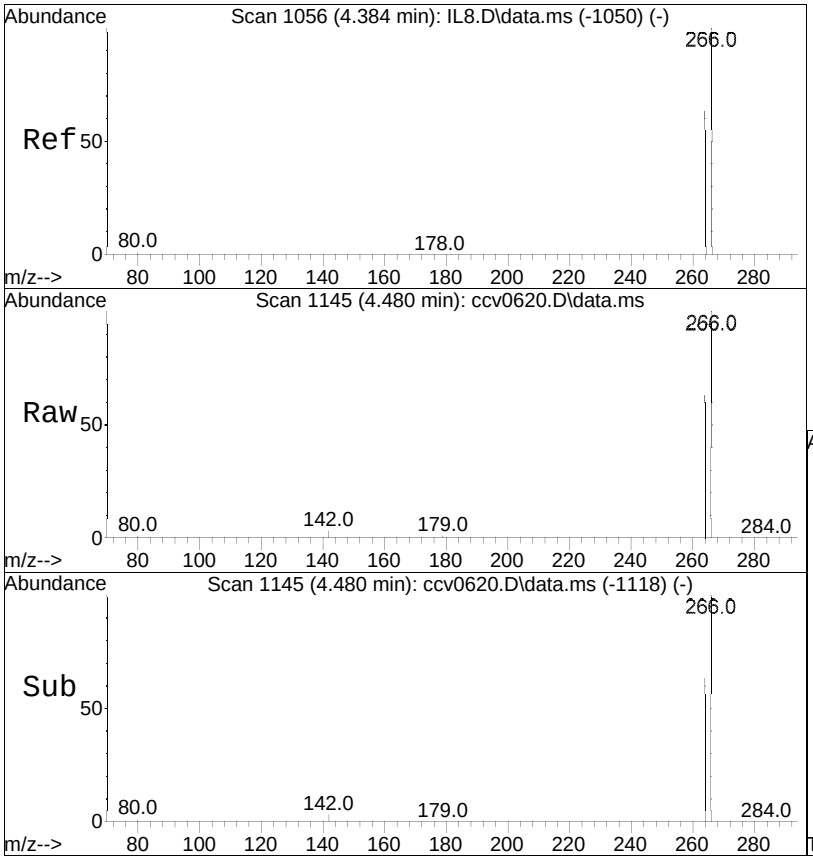


#25
Hexachlorobenzene
Concen: 804.29 ng/ml
RT: 4.368 min Scan# 1107
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:284 Resp: 117635

Ion	Ratio	Lower	Upper
284	100		
142	36.2	28.2	42.2

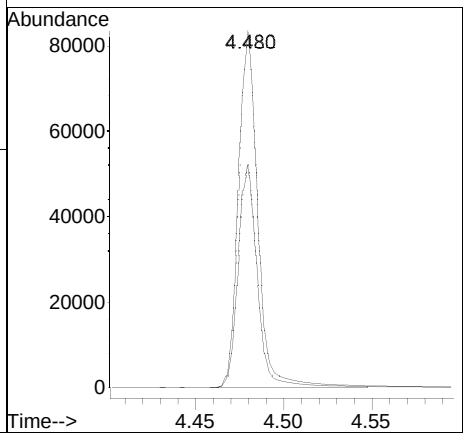


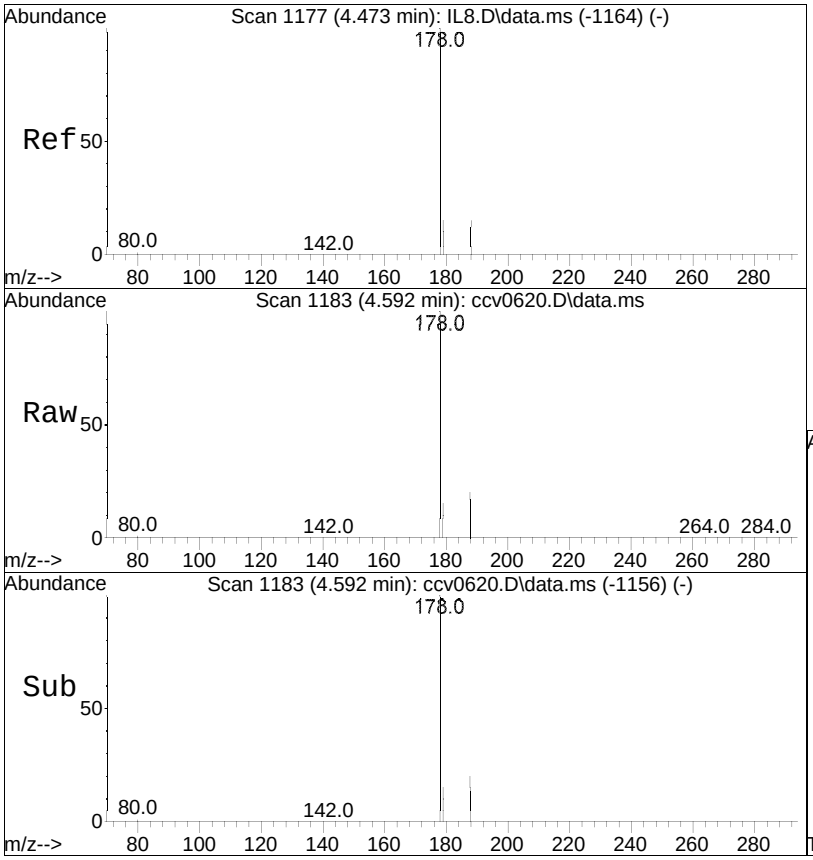


#26
Pentachlorophenol
Concen: 833.99 ng/ml
RT: 4.480 min Scan# 1145
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:266 Resp: 63250

Ion	Ratio	Lower	Upper
266	100		
264	62.7	50.6	76.0

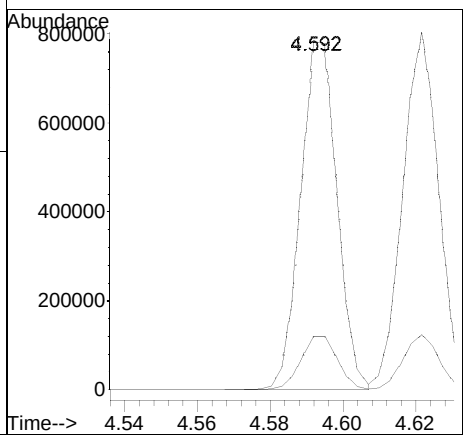


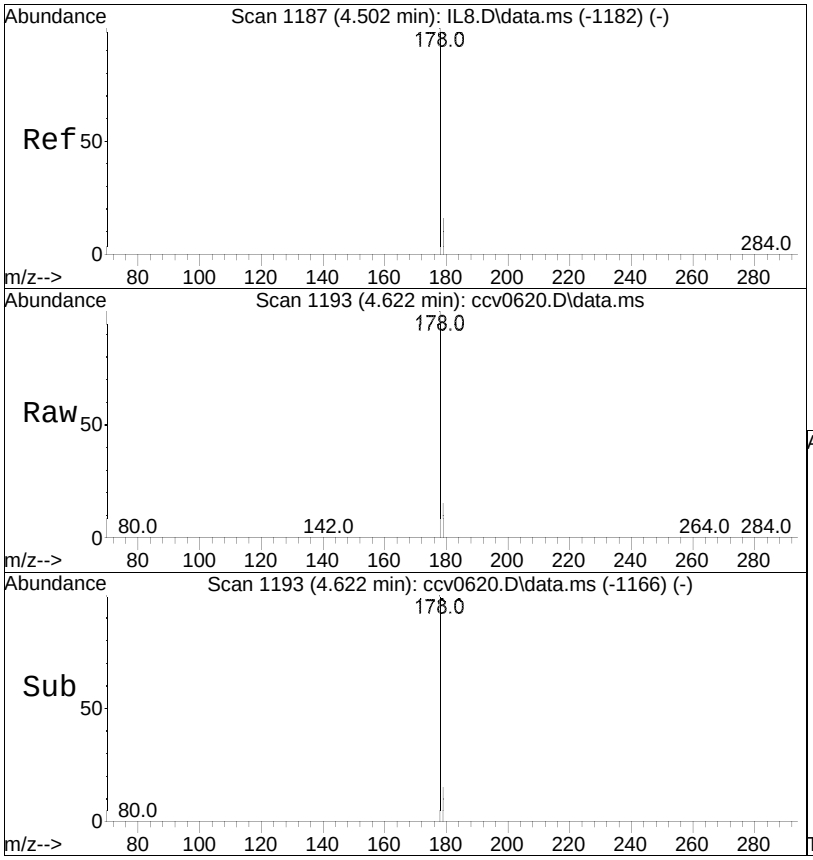


#27
Phenanthrene
Concen: 890.60 ng/ml
RT: 4.592 min Scan# 1183
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:178 Resp: 544338

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

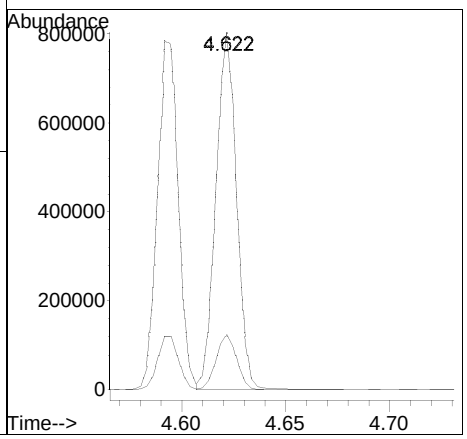


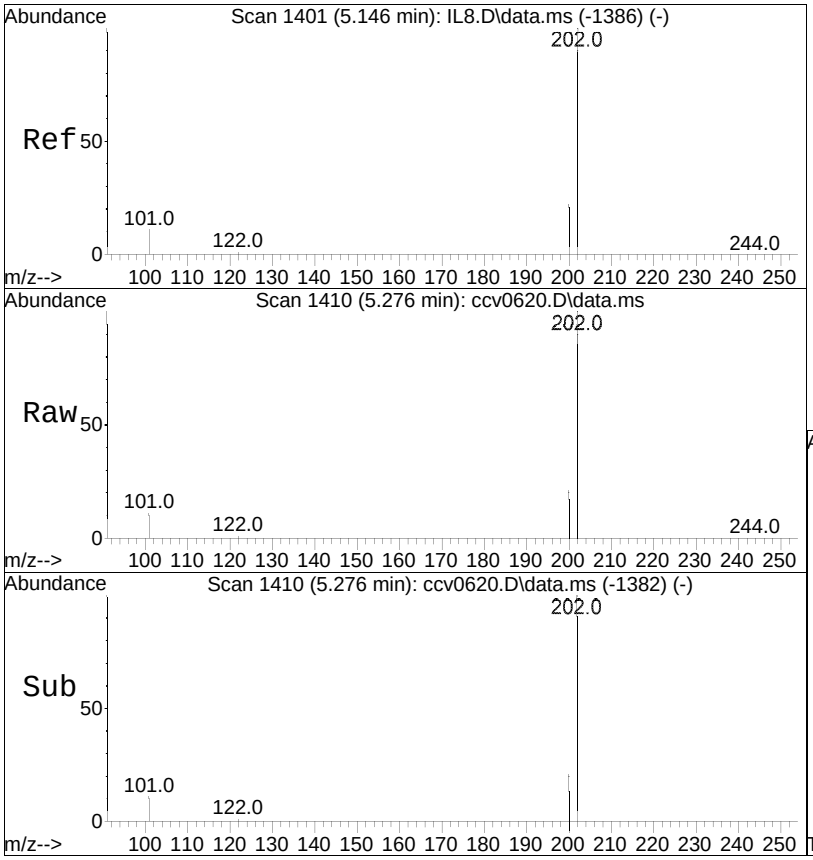


#28
Anthracene
Concen: 938.45 ng/ml
RT: 4.622 min Scan# 1193
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:178 Resp: 554088

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

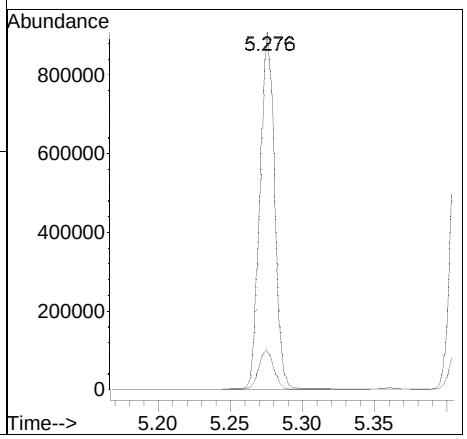


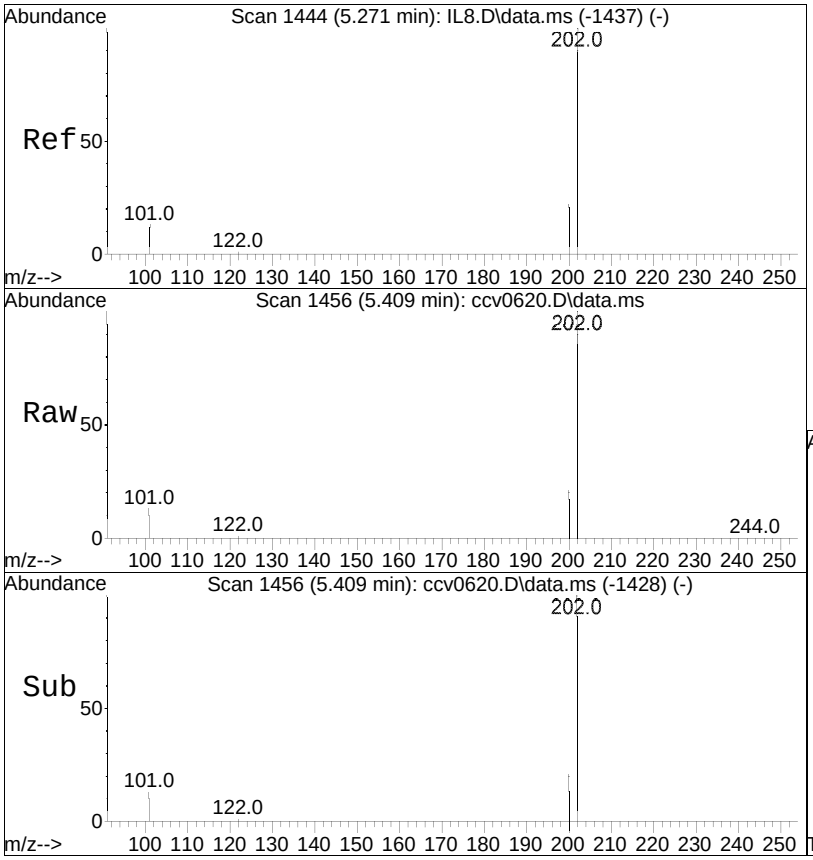


#29
Fluoranthene
Concen: 904.72 ng/ml
RT: 5.276 min Scan# 1410
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:202 Resp: 641225

Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.7	13.1

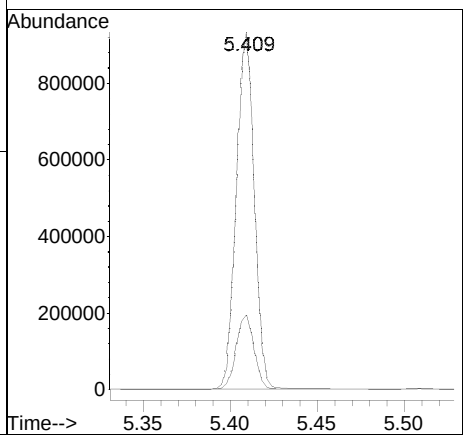


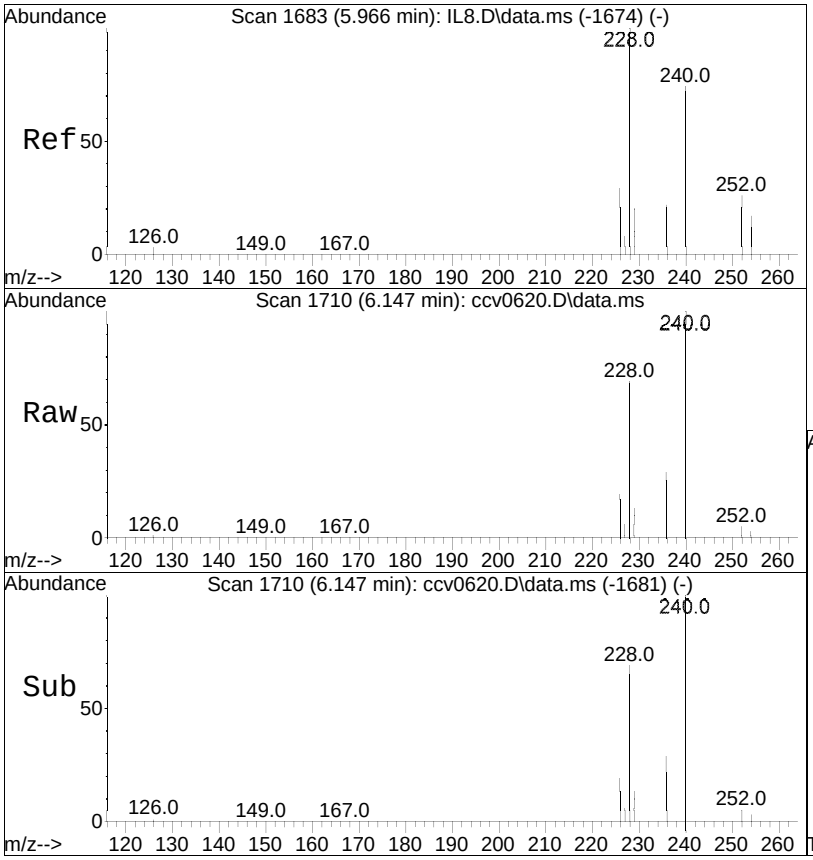


#30
Pyrene
Concen: 888.20 ng/ml
RT: 5.409 min Scan# 1456
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:202 Resp: 658212

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

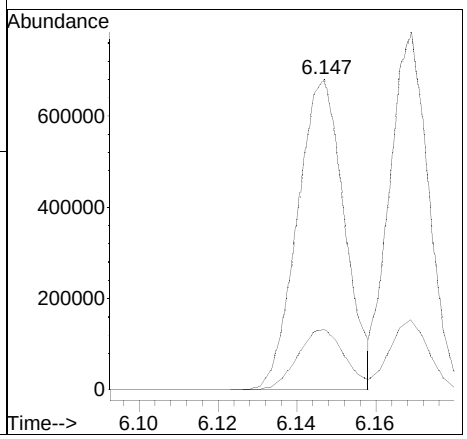


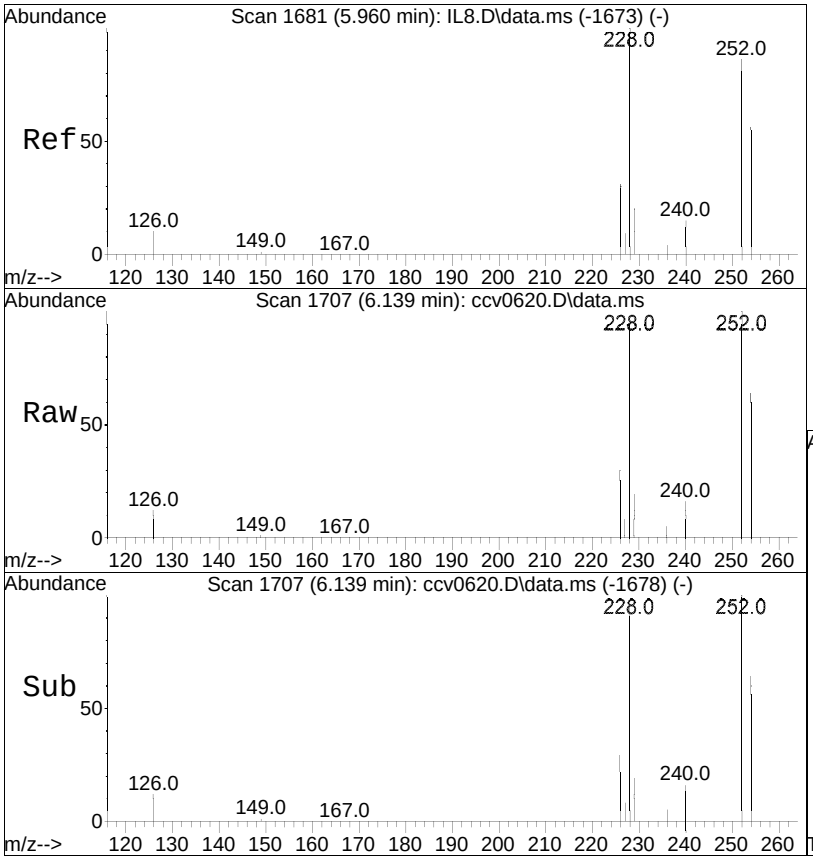


#33
Benzo[a]anthracene
Concen: 881.81 ng/ml
RT: 6.147 min Scan# 1710
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:228 Resp: 565706

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.8	23.6

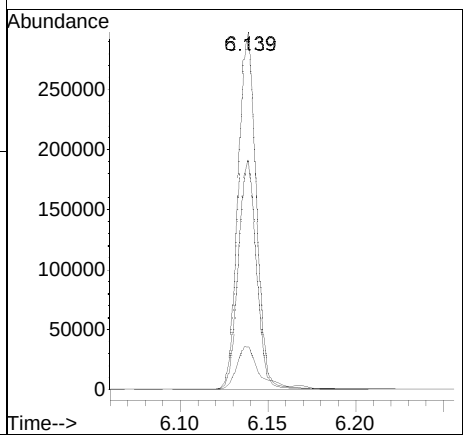


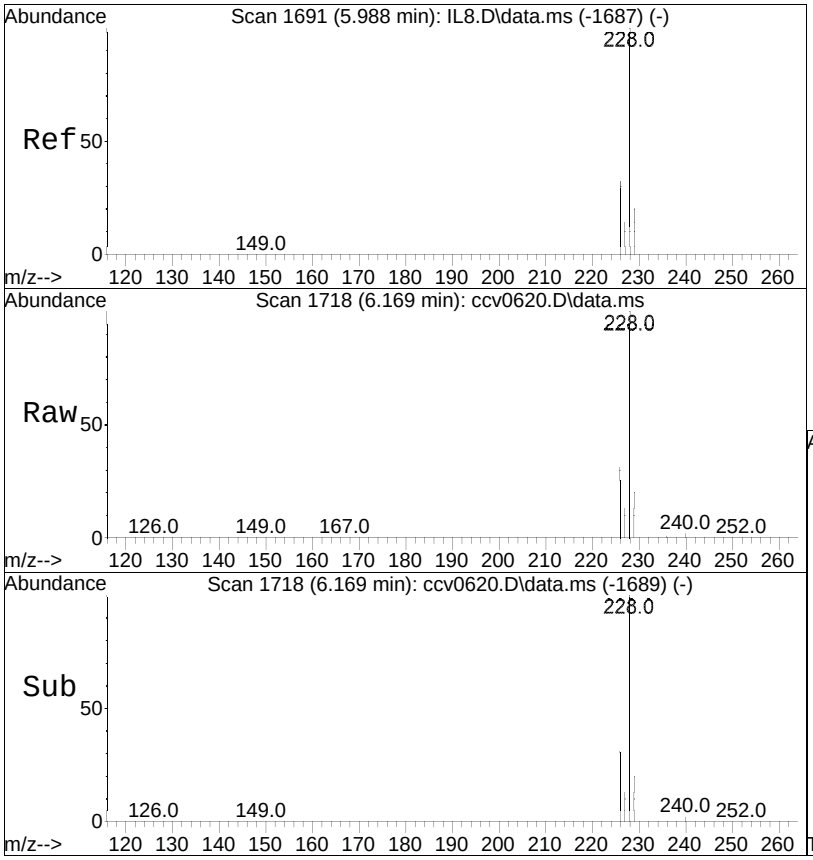


#34
3,3'-Dichlorobenzene
Concen: 801.56 ng/ml
RT: 6.139 min Scan# 1707
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:252 Resp: 211930

Ion	Ratio	Lower	Upper
252	100		
126	15.0	10.6	16.0
254	64.3	51.7	77.5

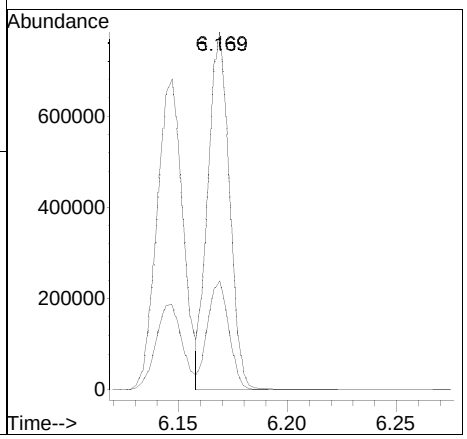


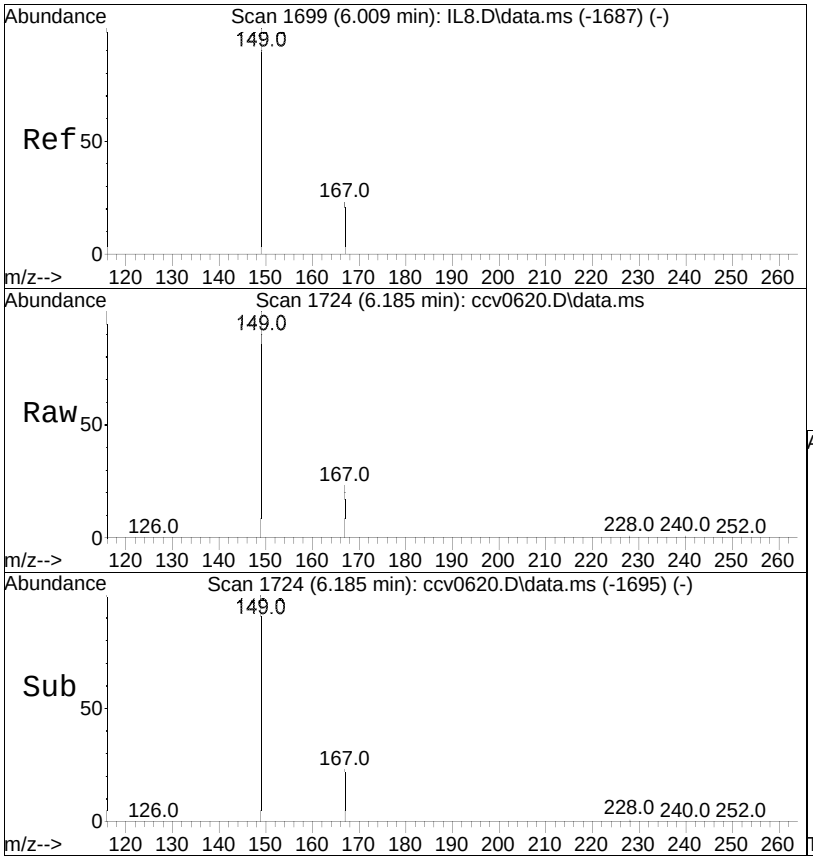


#35
Chrysene
Concen: 938.82 ng/ml
RT: 6.169 min Scan# 1718
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:228 Resp: 535992

Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.1	37.7

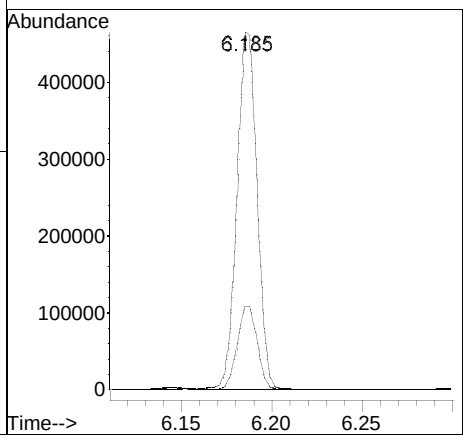


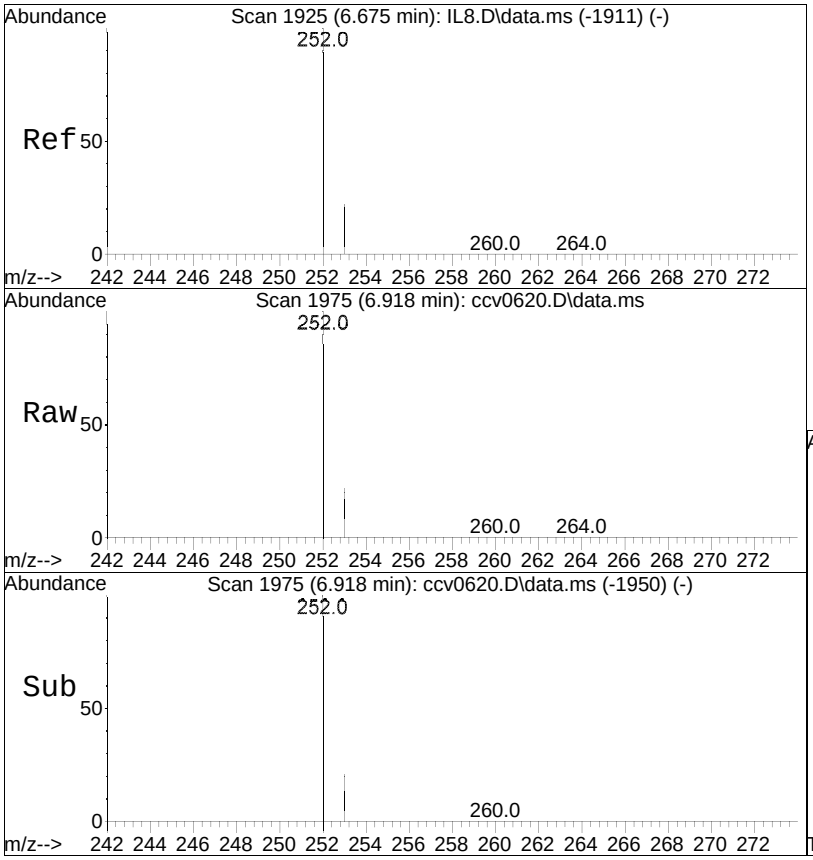


#36
Bis(2-ethylhexyl)phthalate
Concen: 843.79 ng/ml
RT: 6.185 min Scan# 1724
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:149 Resp: 353064

Ion	Ratio	Lower	Upper
149	100		
167	23.3	18.6	27.8

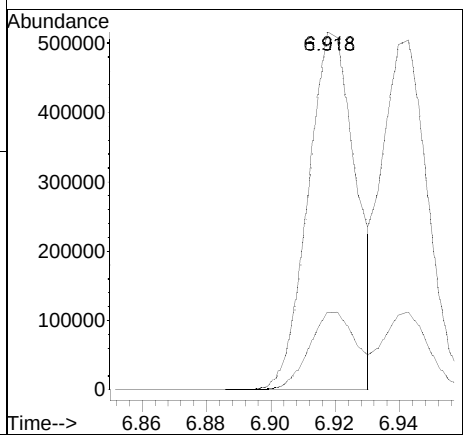


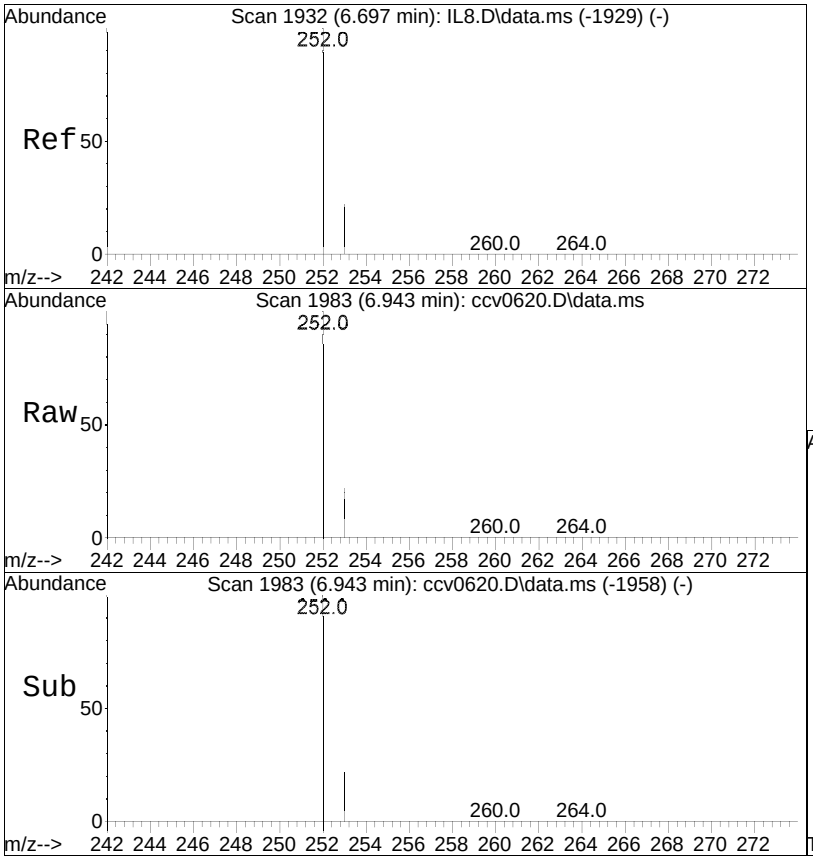


#38
Benzo[b]fluoranthene
Concen: 979.20 ng/ml
RT: 6.918 min Scan# 1975
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:252 Resp: 535603

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0

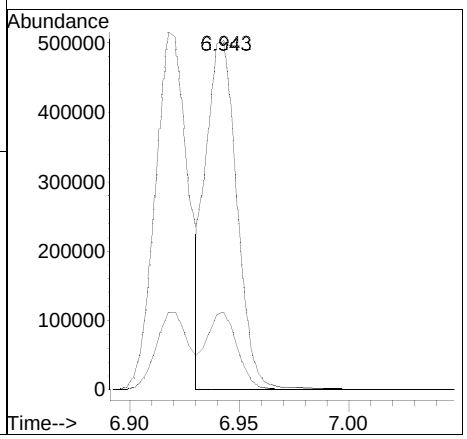


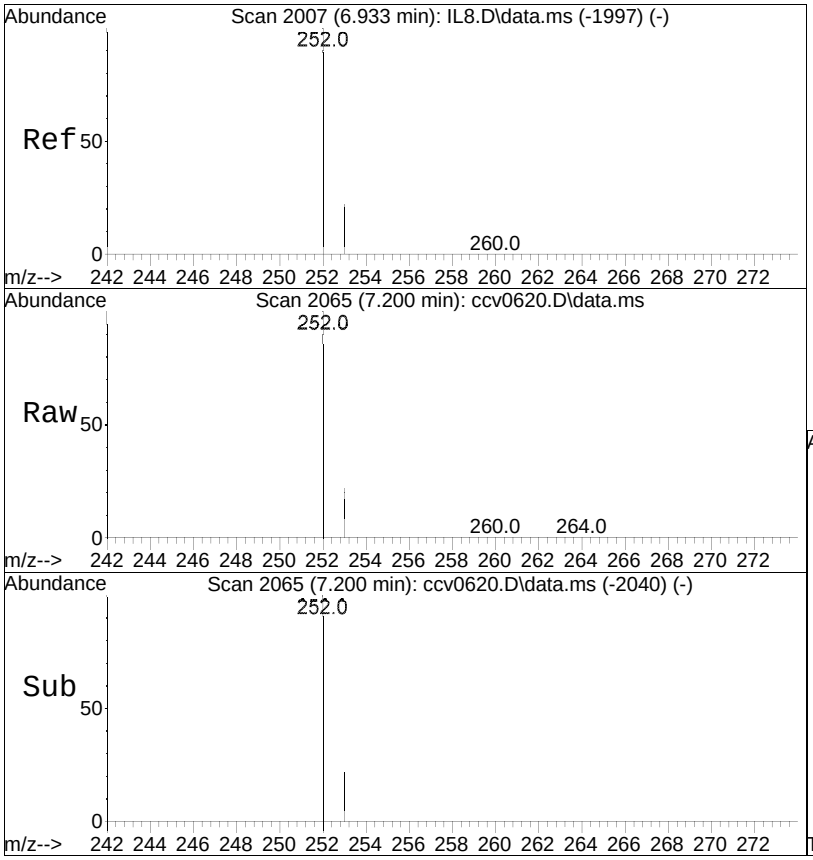


#39
Benzo[k]fluoranthene
Concen: 968.24 ng/ml
RT: 6.943 min Scan# 1983
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:252 Resp: 493965

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5

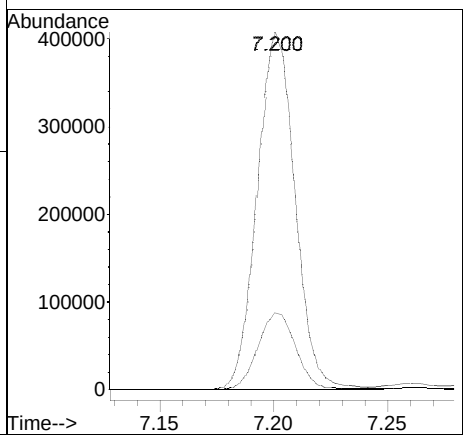


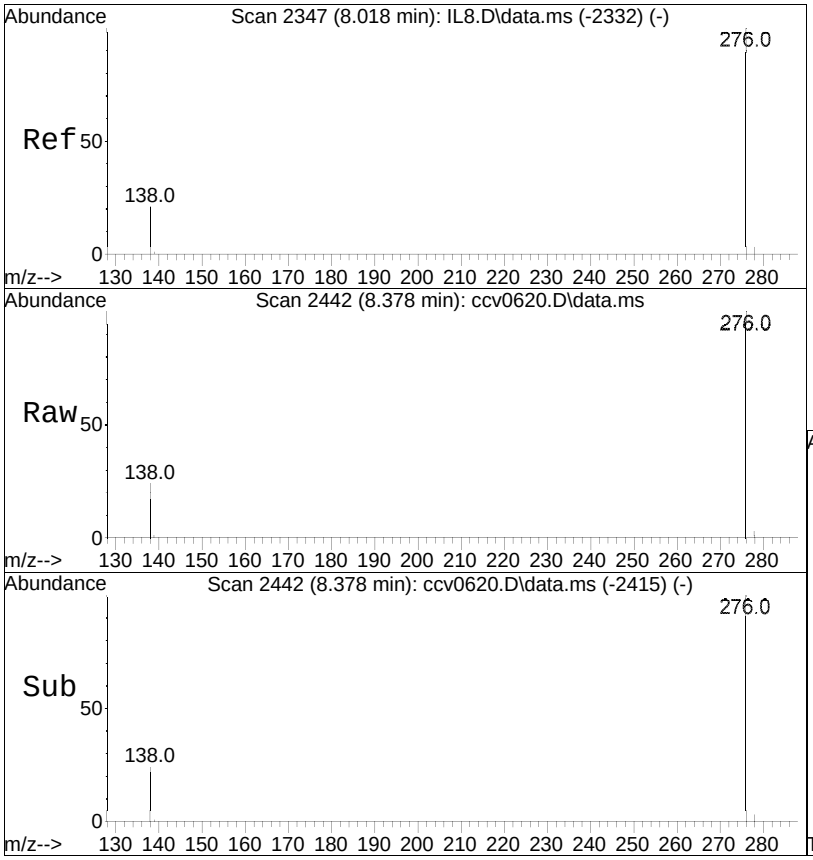


#40
Benzo[a]pyrene
Concen: 1024.04 ng/ml
RT: 7.200 min Scan# 2065
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:252 Resp: 464471

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

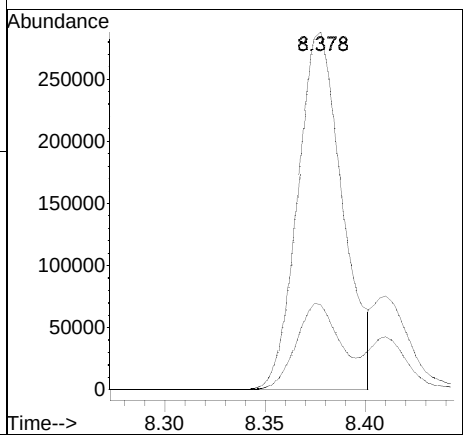


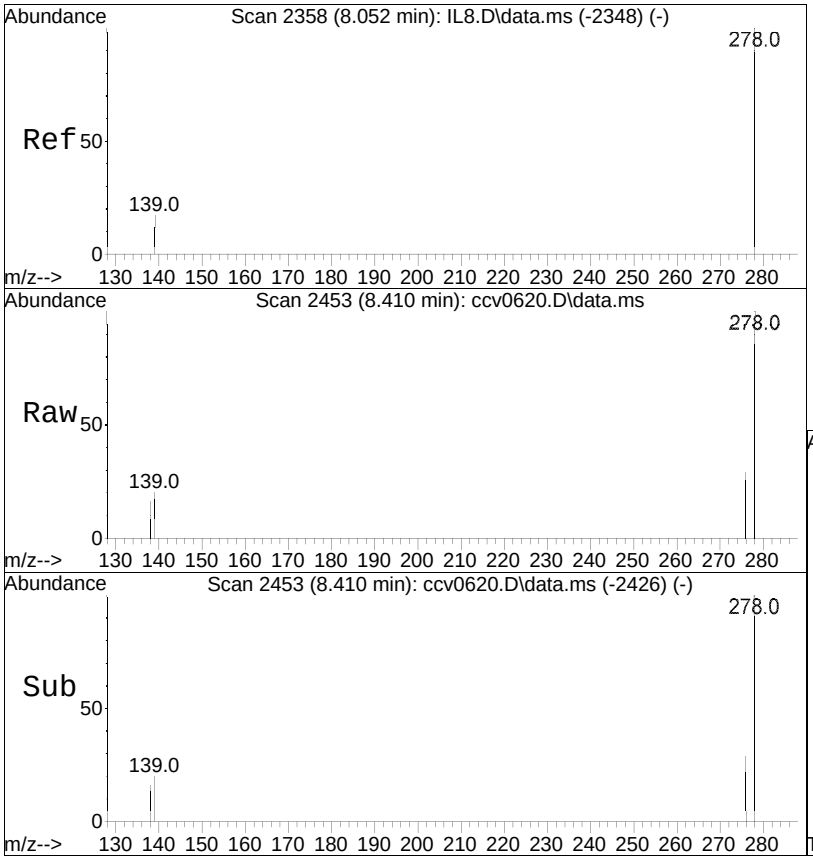


#41
Indeno[1,2,3-cd]pyrene
Concen: 981.74 ng/ml
RT: 8.378 min Scan# 2442
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:276 Resp: 443562

Ion	Ratio	Lower	Upper
276	100		
138	23.5	16.2	24.4

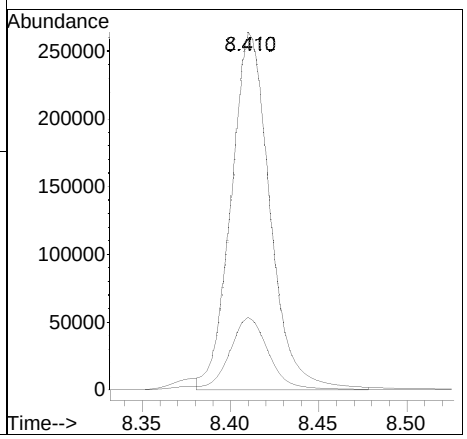


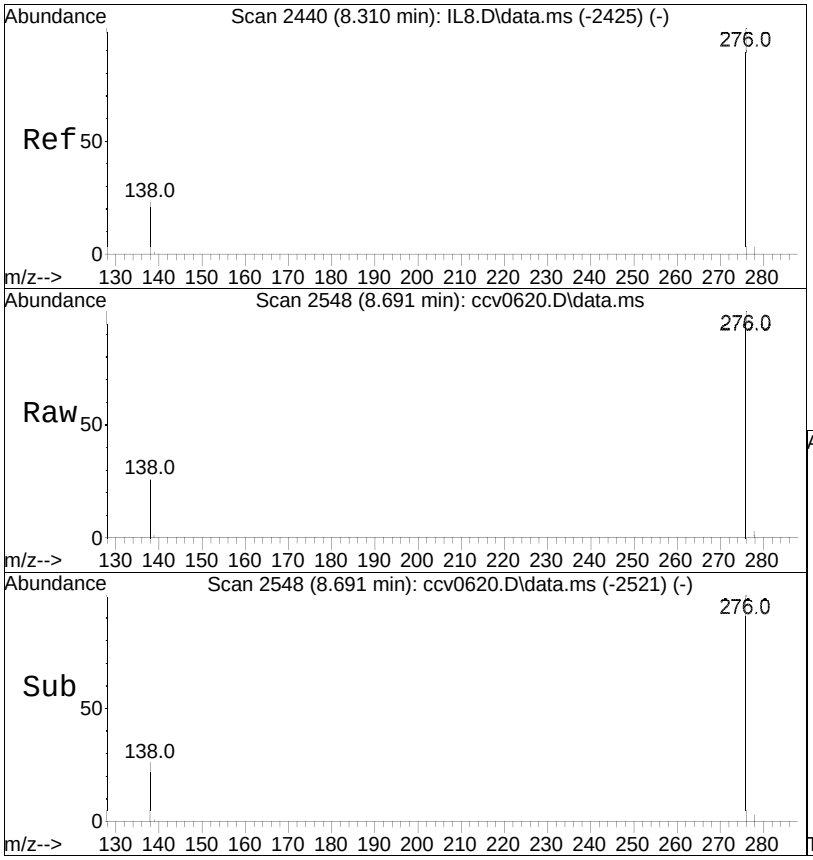


#42
Dibenzo[a,h]anthracene
Concen: 960.54 ng/ml M6
RT: 8.410 min Scan# 2453
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:278 Resp: 402307

Ion	Ratio	Lower	Upper
278	100		
139	20.8	14.5	21.7

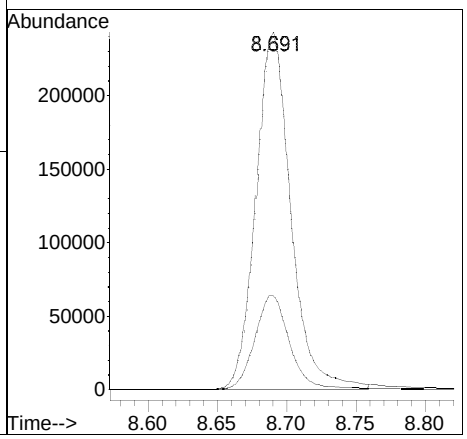




#43
Benzo[g,h,i]perylene
Concen: 925.33 ng/ml
RT: 8.691 min Scan# 2548
Delta R.T. 0.000 min
Lab File: ccv0620.D
Acq: 20 Jun 2024 11:08 am

Tgt Ion:276 Resp: 420763

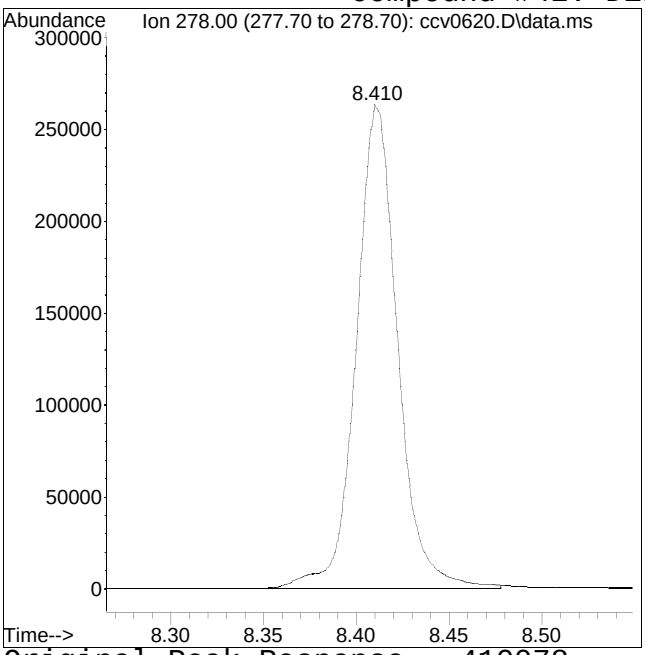
Ion	Ratio	Lower	Upper
276	100		
138	26.5	18.5	27.7



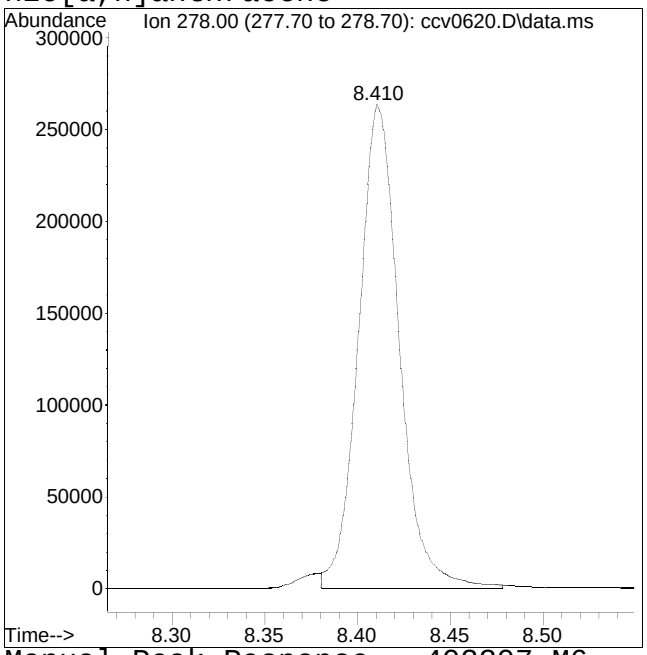
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQ
Data File : ccv0620.D
Date Inj'd : 6/20/2024 11:08 am
Sample : WG1937057-3,32,,ICV #10475
Method : SIM-RVT_240223_sv125.M
Operator : SV125:jjw
Instrument : SV125
Quant Date : 6/20/2024 11:24 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 410078



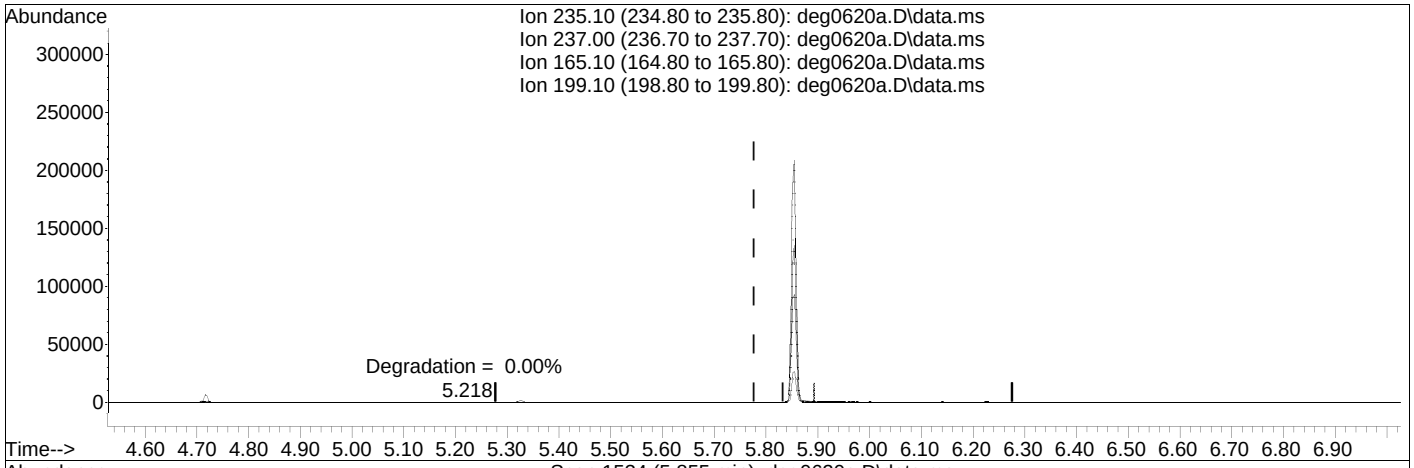
Manual Peak Response = 402307 M6

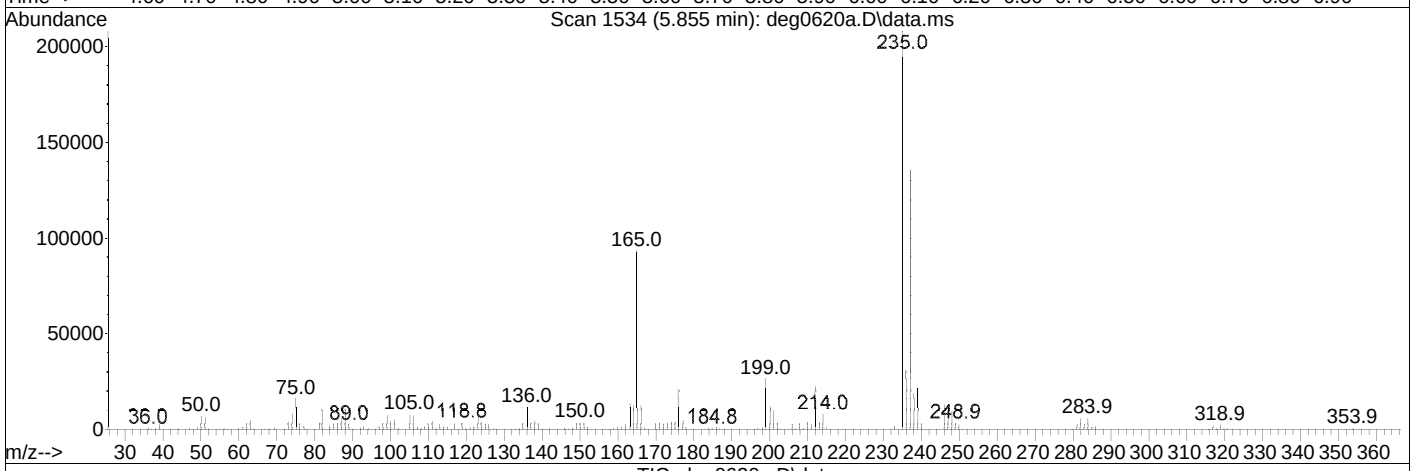
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : deg0620a.D
Acq On : 20 Jun 2024 10:46 am
Operator : SV125:jjw
Sample : WG1937057-2,32,,dftpp sv125 lot#10768
Misc : WG1937057,,ical20885
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 20 11:06:33 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 08:26:56 2024
Response via : Continuing Cal File:





TIC: deg0620a.D\data.ms

(6) ddt (T)

5.855min (+ 0.078) 19.71

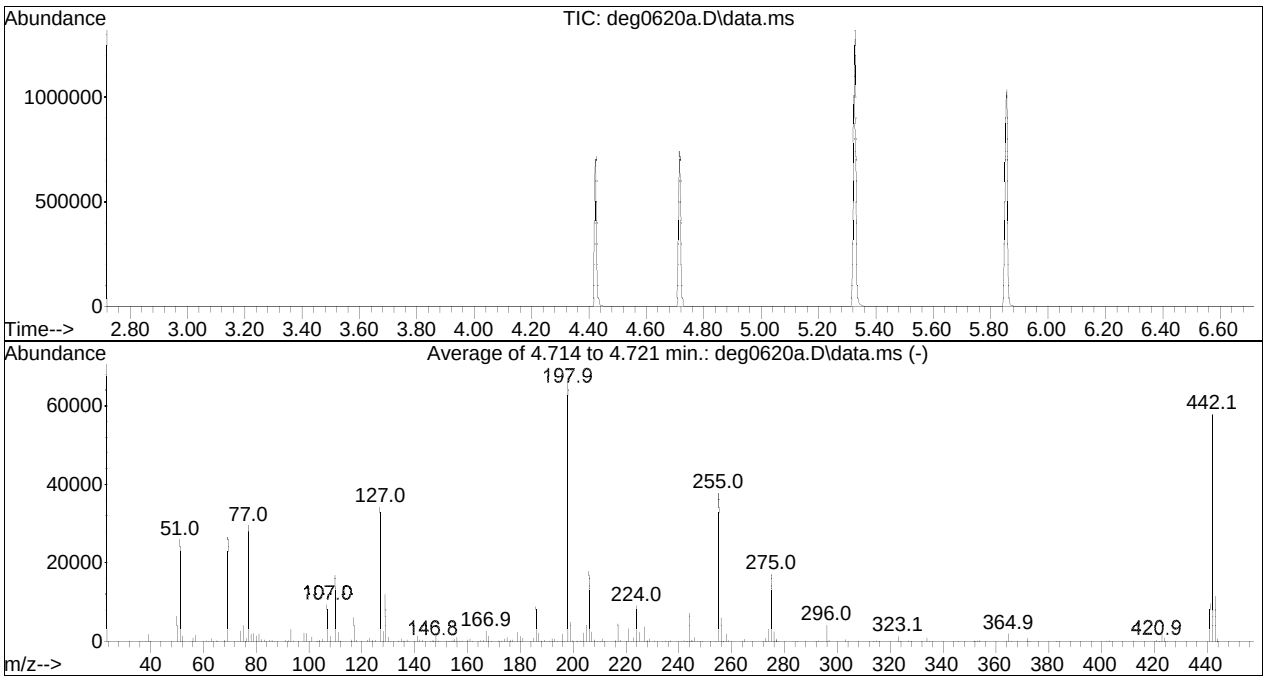
response 120143

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.70
165.10	53.30	46.44
199.10	17.10	13.13

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : deg0620a.D
Acq On : 20 Jun 2024 10:46 am
Operator : SV125:jjw
Sample : WG1937057-1,32,,dftpp sv125 lot#10768
Misc : WG1937057,,ical20885
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\240620aRVT\SIM-RVT_240223_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 20 11:24:28 2024



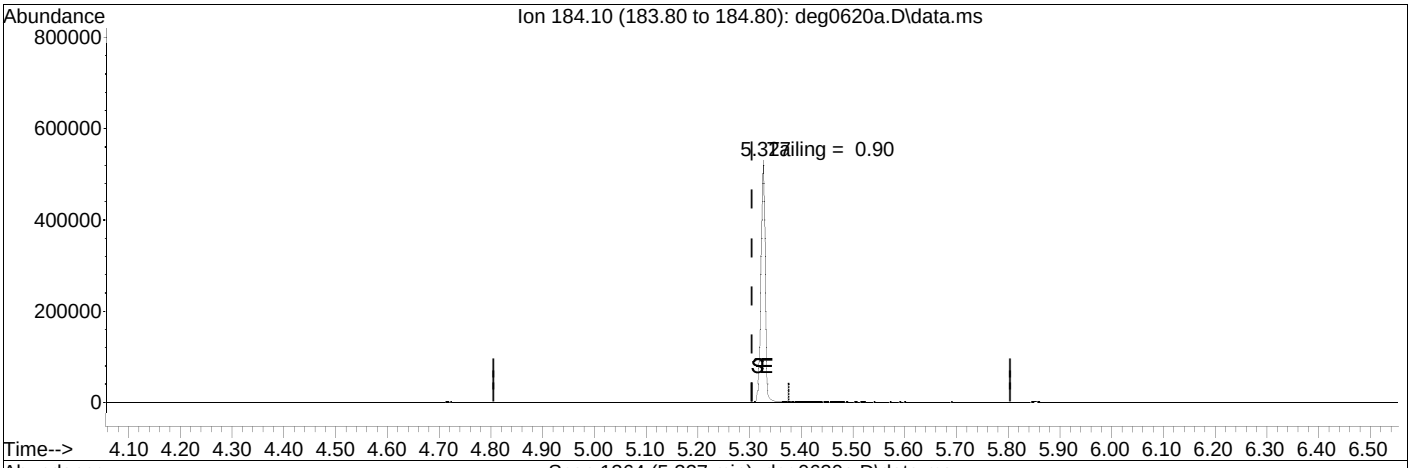
Spectrum Information: Average of 4.714 to 4.721 min.

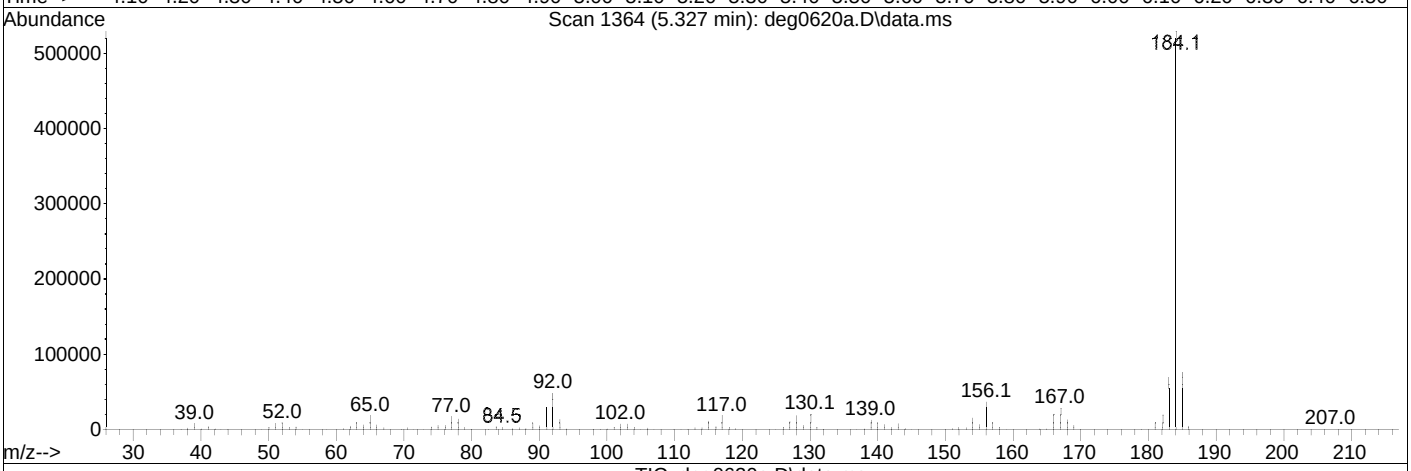
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.5	25832	PASS
68	69	0.00	2	1.8	486	PASS
69	69	100	100	100.0	26553	PASS
70	69	0.00	2	0.3	76	PASS
127	198	10	80	50.8	34093	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	67152	PASS
199	198	5	9	7.4	4976	PASS
275	198	10	60	25.4	17060	PASS
365	198	1	100	3.0	1993	PASS
441	442	0.01	24	16.6	9609	PASS
442	198	50	100	86.1	57824	PASS
443	442	15	24	19.7	11412	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : deg0620a.D
Acq On : 20 Jun 2024 10:46 am
Operator : SV125:jjw
Sample : WG1937057-4,32,,dftpp sv125 lot#10768
Misc : WG1937057,,ical20885
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 20 11:06:33 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 08:26:56 2024
Response via : Continuing Cal File:





TIC: deg0620a.D\data.ms

(3) benzidine (T)

5.327min (+ 0.022) 28.01

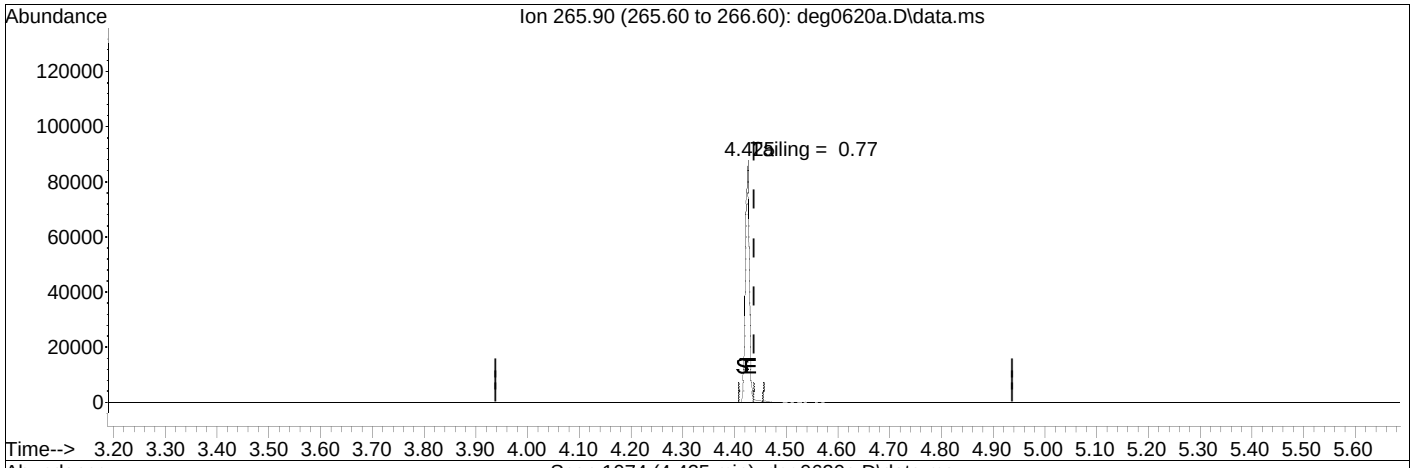
response 285164

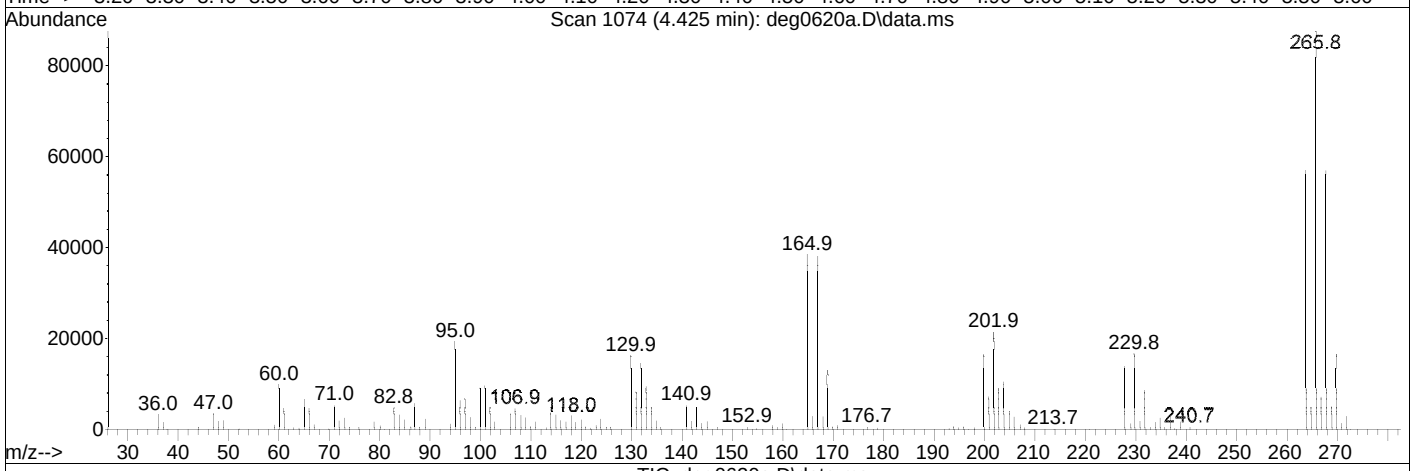
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : deg0620a.D
Acq On : 20 Jun 2024 10:46 am
Operator : SV125:jjw
Sample : WG1937057-5,32,,dftpp sv125 lot#10768
Misc : WG1937057,,ical20885
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 20 11:06:33 2024
Quant Method : I:\8270SIM\SV125\240620aRVT\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 08:26:56 2024
Response via : Continuing Cal File:





TIC: deg0620a.D\data.ms

(1) pentachlorophenol (T)

4.425min (-0.013) 20.93

response 43954

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV125	**Calibration Date**	: 06/20/24 11:08		
Lab File ID	: CCV0620	**Init. Calib. Date(s)**	: 02/23/24	02/23/24	
Sample No	: WG1937057-3	**Init. Calib. Times**	: 14:31	16:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	128	0
2-Fluorophenol	1.183	1.181	.05	0.2	20	122	0
Phenol-d6	1.37	1.427	.05	-4.2	20	125	0
Bis(2-chloroethyl)ether	1.221	1.206	.05	1.2	20	126	0
n-nitrosodi-n-propylamine	0.788	0.834	.05	-5.8	20	119	0
Hexachloroethane	0.543	0.525	.05	3.3	20	120	0
Nitrobenzene-d5	1.109	1.25	.05	-12.7	20	129	0
Naphthalene-d8	1	1	.05	0	20	136	0
Naphthalene	1.117	1.012	.05	9.4	20	125	0
Hexachlorobutadiene	0.213	0.181	.05	15	20	115	0
2-Methylnaphthalene	0.715	0.722	.05	-1	20	137	0
1-Methylnaphthalene	0.677	0.653	.05	3.5	20	132	0
2-Fluorobiphenyl	0.918	0.792	.05	13.7	20	117	0
2-Chloronaphthalene	0.796	0.706	.05	11.3	20	118	0
2,6-Dinitrotoluene	1000	921.365	.05	7.9	20	121	0
Acenaphthylene	1.184	1.11	.05	6.2	20	115	0
Acenaphthene-d10	1	1	.05	0	20	129	0
Acenaphthene	1.368	1.286	.05	6	20	118	0
2,4-Dinitrotoluene	1000	943.079	.05	5.7	20	118	0
Fluorene	1.565	1.445	.05	7.7	20	112	0
2,4,6-Tribromophenol	0.223	0.212	.05	4.9	20	104	0
Phenanthrene-d10	1	1	.05	0	20	121	0
4,6-Dinitro-o-cresol	1000	1002.173	.05	-0.2	20	120	0
Hexachlorobenzene	0.277	0.223	.05	19.5	20	95	0
Pentachlorophenol	1000	833.991	.05	16.6	20	98	0
Phenanthrene	1.157	1.03	.05	11	20	106	0
Anthracene	1.117	1.049	.05	6.1	20	105	0
Fluoranthene	1.341	1.213	.05	9.5	20	101	0
Pyrene	1.402	1.246	.05	11.1	20	99	0
4-Terphenyl-d14	0.817	0.663	.05	18.8	20	97	0
Chrysene-d12	1	1	.05	0	20	108	0
Benzo[a]anthracene	1000	881.815	.05	11.8	20	90	0
3,3'-Dichlorobenzene	1000	801.559	.05	19.8	20	84	0
Chrysene	1.429	1.341	.05	6.2	20	90	0
Bis(2-ethylhexyl)phthalate	1000	843.794	.05	15.6	20	93	0
Perylene-d12	1	1	.05	0	20	100	0
Benzo[b]fluoranthene	1.392	1.363	.05	2.1	20	83	0
Benzo[k]fluoranthene	1.299	1.257	.05	3.2	20	90	0
Benzo[a]pyrene	1.155	1.182	.05	-2.3	20	87	0
Indeno[1,2,3-cd]pyrene	1.15	1.129	.05	1.8	20	87	0
Dibenzo[a,h]anthracene	1.066	1.024	.05	3.9	20	85	0
Benzo[g,h,i]perylene	1.158	1.071	.05	7.5	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/21/24 09:01		
Lab File ID	: CCV0621	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1937540-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	75	0
2-Fluorophenol	1.189	1.082	.05	9	20	64	0
Phenol-d6	1.429	1.319	.05	7.7	20	65	0
Bis(2-chloroethyl)ether	1.263	1.171	.05	7.3	20	69	0
n-nitrosodi-n-propylamine	0.866	0.846	.05	2.3	20	67	0
Hexachloroethane	0.572	0.544	.05	4.9	20	69	0
Nitrobenzene-d5	1.273	1.254	.05	1.5	20	69	0
Naphthalene-d8	1	1	.05	0	20	76	0
Naphthalene	1.131	1	.05	11.6	20	68	0
Hexachlorobutadiene	0.216	0.212	.05	1.9	20	73	0
2-Methylnaphthalene	0.705	0.68	.05	3.5	20	70	0
1-Methylnaphthalene	0.664	0.621	.05	6.5	20	70	0
2-Fluorobiphenyl	0.851	0.807	.05	5.2	20	71	0
2-Chloronaphthalene	0.721	0.686	.05	4.9	20	70	0
2,6-Dinitrotoluene	1000	938.335	.05	6.2	20	74	0
Acenaphthylene	1.061	1.055	.05	0.6	20	68	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.372	1.249	.05	9	20	73	0
2,4-Dinitrotoluene	1000	888.455	.05	11.2	20	73	0
Fluorene	1.479	1.368	.05	7.5	20	73	0
2,4,6-Tribromophenol	1000	921.295	.05	7.9	20	75	0
Phenanthrene-d10	1	1	.05	0	20	86	0
4,6-Dinitro-o-cresol	1000	893.242	.05	10.7	20	76	0
Hexachlorobenzene	0.288	0.26	.05	9.7	20	75	0
Pentachlorophenol	1000	892.374	.05	10.8	20	79	0
Phenanthrene	1.125	0.992	.05	11.8	20	71	0
Anthracene	1.111	0.984	.05	11.4	20	72	0
Fluoranthene	1.22	1.139	.05	6.6	20	77	0
Pyrene	1.265	1.171	.05	7.4	20	76	0
4-Terphenyl-d14	0.814	0.789	.05	3.1	20	85	0
Chrysene-d12	1	1	.05	0	20	99	0
Benzo[a]anthracene	1000	839.319	.05	16.1	20	80	0
3,3'-Dichlorobenzene	0.533	0.5	.05	6.2	20	84	0
Chrysene	1.45	1.252	.05	13.7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	887.611	.05	11.2	20	94	0
Perylene-d12	1	1	.05	0	20	109	0
Benzo[b]fluoranthene	1.323	1.159	.05	12.4	20	85	0
Benzo[k]fluoranthene	1.259	1.239	.05	1.6	20	97	0
Benzo[a]pyrene	1.09	1.073	.05	1.6	20	93	0
Indeno[1,2,3-cd]pyrene	1.027	1.093	.05	-6.4	20	107	0
Dibenzo[a,h]anthracene	0.983	1.062	.05	-8	20	104	0
Benzo[g,h,i]perylene	1.045	1.035	.05	1	20	101	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : ccv0621.D
Acq On : 21 Jun 2024 09:01 am
Operator : SV120:jjw
Sample : WG1937540-3,32,, ICV10475 0617
Misc : WG1937540,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 21 09:20:06 2024
Quant Method : I:\8270SIM\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:30 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
2	s	2-Fluorophenol	1.189	1.082	9.0	64	0.00
3	s	Phenol-d6	1.429	1.319	7.7	65	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.171	7.3	69	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.846	2.3	67	0.00
6	t	Hexachloroethane	0.572	0.544	4.9	69	0.00
7	s	Nitrobenzene-d5	1.273	1.254	1.5	69	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	76	0.00
9	t	Naphthalene	1.131	1.000	11.6	68	0.00
10	t	Hexachlorobutadiene	0.216	0.212	1.9	73	0.00
11	t	2-Methylnaphthalene	0.705	0.680	3.5	70	0.00
12	t	1-Methylnaphthalene	0.664	0.621	6.5	70	0.00
13	s	2-Fluorobiphenyl	0.851	0.807	5.2	71	0.00
14	t	2-Chloronaphthalene	0.721	0.686	4.9	70	0.00
15	t	2,6-Dinitrotoluene	*1000.000	938.335	6.2	74	0.00
16	t	Acenaphthylene	1.061	1.055	0.6	68	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	81	0.00
18	t	Acenaphthene	1.372	1.249	9.0	73	0.00
19	t	2,4-Dinitrotoluene	*1000.000	888.455	11.2	73	0.00
20	t	Fluorene	1.479	1.368	7.5	73	0.00
21	s	2,4,6-Tribromophenol	*1000.000	921.295	7.9	75	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	86	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	893.242	10.7	76	0.00
24	t	Hexachlorobenzene	0.288	0.260	9.7	75	0.00
25	t	Pentachlorophenol	*1000.000	892.374	10.8	79	0.00
26	t	Phenanthrene	1.125	0.992	11.8	71	0.00
27	t	Anthracene	1.111	0.984	11.4	72	0.00
28	t	Fluoranthene	1.220	1.139	6.6	77	0.00
29	t	Pyrene	1.265	1.171	7.4	76	0.00
30	s	4-Terphenyl-d14	0.814	0.789	3.1	85	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	99	0.00
32	t	Benzo[a]anthracene	*1000.000	839.319	16.1	80	0.00
33	t	3,3'-Dichlorobenzene	0.533	0.500	6.2	84	0.00
34	t	Chrysene	1.450	1.252	13.7	83	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	887.611	11.2	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : ccv0621.D
Acq On : 21 Jun 2024 09:01 am
Operator : SV120:jjw
Sample : WG1937540-3,32,, ICV10475 0617
Misc : WG1937540,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 21 09:20:06 2024
Quant Method : I:\8270SIM\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:30 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	109	0.00
37	t	Benzo[b]fluoranthene	1.323	1.159	12.4	85	0.00
38	t	Benzo[k]fluoranthene	1.259	1.239	1.6	97	0.00
39	t	Benzo[a]pyrene	1.090	1.073	1.6	93	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.027	1.093	-6.4	107	0.00
41	t	Dibenzo[a,h]anthracene	0.983	1.062	-8.0	104	0.00
42	t	Benzo[g,h,i]perylene	1.045	1.035	1.0	101	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : ccv0621.D
Acq On : 21 Jun 2024 09:01 am
Operator : SV120:jjw
Sample : WG1937540-3,32,, ICV10475 0617
Misc : WG1937540,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 21 09:20:06 2024
Quant Method : I:\8270SIM\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:30 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.196	152	135748	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.858	136	501106	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.832	164	287581	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.667	188	591010	4000.000	ng/ml	0.00
31) Chrysene-d12	6.226	240	506883	4000.000	ng/ml	0.00
36) Perylene-d12	7.392	264	537417	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.612	112	36705	909.759	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.49%			
3) Phenol-d6	2.013	99	44754	922.807	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.14%			
7) Nitrobenzene-d5	2.478	82	42558	984.915	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.49%			
13) 2-Fluorobiphenyl	3.455	172	101143	949.248	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.92%			
21) 2,4,6-Tribromophenol	4.276	330	17984	921.295	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.06%			
30) 4-Terphenyl-d14	5.586	244	116628	969.871	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 48.49%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.063	93	39725	926.783	ng/ml	97
5) n-nitrosodi-n-propylamine	2.397	70	28707	976.670	ng/ml	98
6) Hexachloroethane	2.452	117	18458	950.389	ng/ml	97
9) Naphthalene	2.869	128	125253	884.282	ng/ml	99
10) Hexachlorobutadiene	2.941	225	26618	982.381	ng/ml	100
11) 2-Methylnaphthalene	3.248	142	85147	963.507	ng/ml	100
12) 1-Methylnaphthalene	3.303	142	77738	934.609	ng/ml	100
14) 2-Chloronaphthalene	3.519	162	85934	951.417	ng/ml	100
15) 2,6-Dinitrotoluene	3.716	165	21162	938.335	ng/ml	94
16) Acenaphthylene	3.752	152	132222	994.689	ng/ml	100
18) Acenaphthene	3.849	153	89766	909.737	ng/ml	95
19) 2,4-Dinitrotoluene	3.941	165	28399	888.455	ng/ml#	77
20) Fluorene	4.138	166	98326	924.448	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.172	198	15449	893.242	ng/ml	97
24) Hexachlorobenzene	4.456	284	38372	901.092	ng/ml	97
25) Pentachlorophenol	4.567	266	21766	892.374	ng/ml	100
26) Phenanthrene	4.681	178	146621	882.315	ng/ml	100
27) Anthracene	4.708	178	145322	885.077	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : ccv0621.D
Acq On : 21 Jun 2024 09:01 am
Operator : SV120:jjw
Sample : WG1937540-3,32,, ICV10475 0617
Misc : WG1937540,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 21 09:20:06 2024
Quant Method : I:\8270SIM\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:30 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.359	202	168307	933.865	ng/ml	100
29) Pyrene	5.491	202	173070	926.084	ng/ml	100
32) Benzo[a]anthracene	6.218	228	163497	839.319	ng/ml	100
33) 3,3'-Dichlorobenzene	6.206	252	63379	938.307	ng/ml	99
34) Chrysene	6.241	228	158674	863.607	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.247	149	109846	887.611	ng/ml	100
37) Benzo[b]fluoranthene	7.031	252	155697	876.171	ng/ml	97
38) Benzo[k]fluoranthene	7.054	252	166523	984.319	ng/ml	97
39) Benzo[a]pyrene	7.326	252	144109	983.781	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.562	276	146887	1064.730	ng/ml	97
41) Dibenzo[a,h]anthracene	8.597	278	142746M6	1080.565	ng/ml	
42) Benzo[g,h,i]perylene	8.890	276	139000	990.354	ng/ml	99

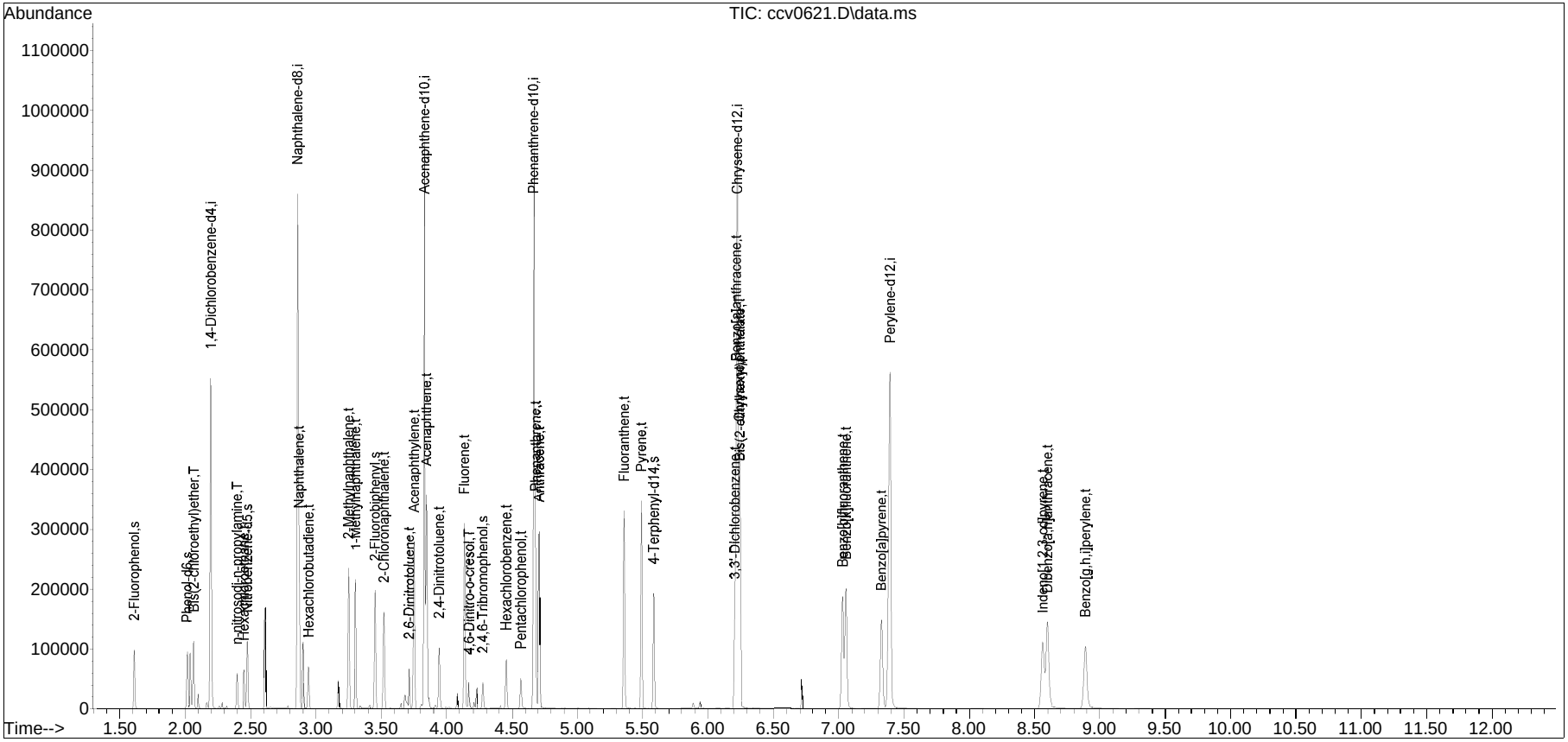
(#) = qualifier out of range (m) = manual integration (+) = signals summed

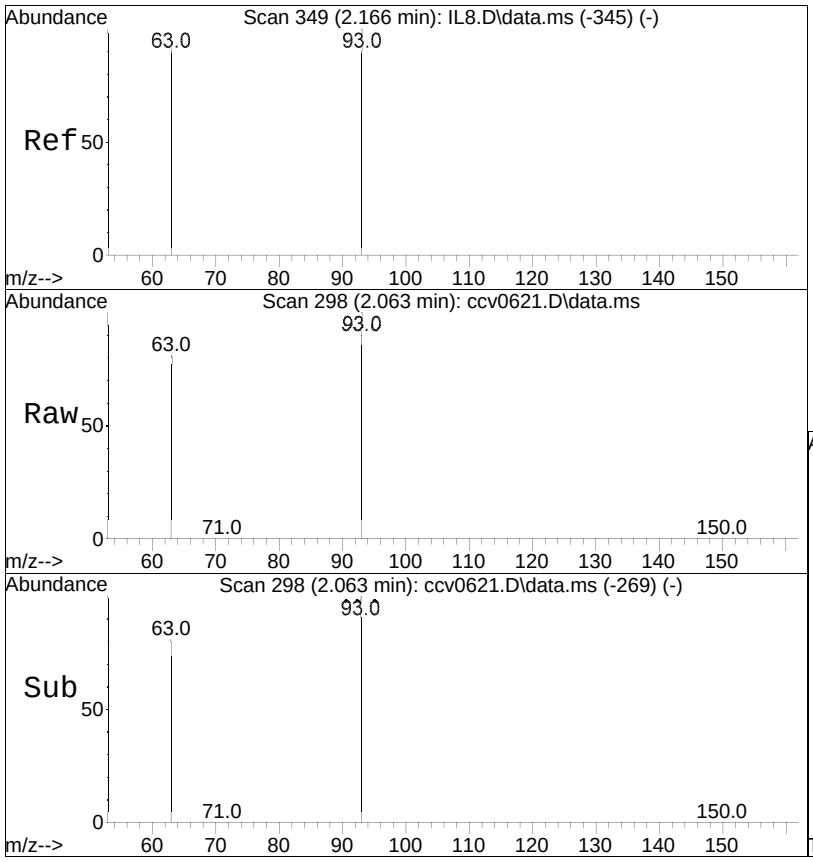
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : ccv0621.D
Acq On : 21 Jun 2024 09:01 am
Operator : SV120:jjw
Sample : WG1937540-3,32,, ICV10475 0617
Misc : WG1937540,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 21 09:20:06 2024
Quant Method : I:\8270SIM\sv120\240621RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 09:20:30 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

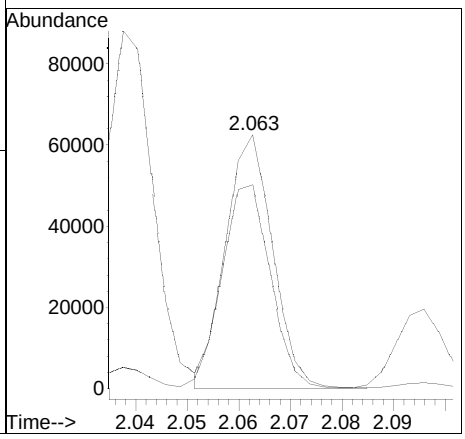


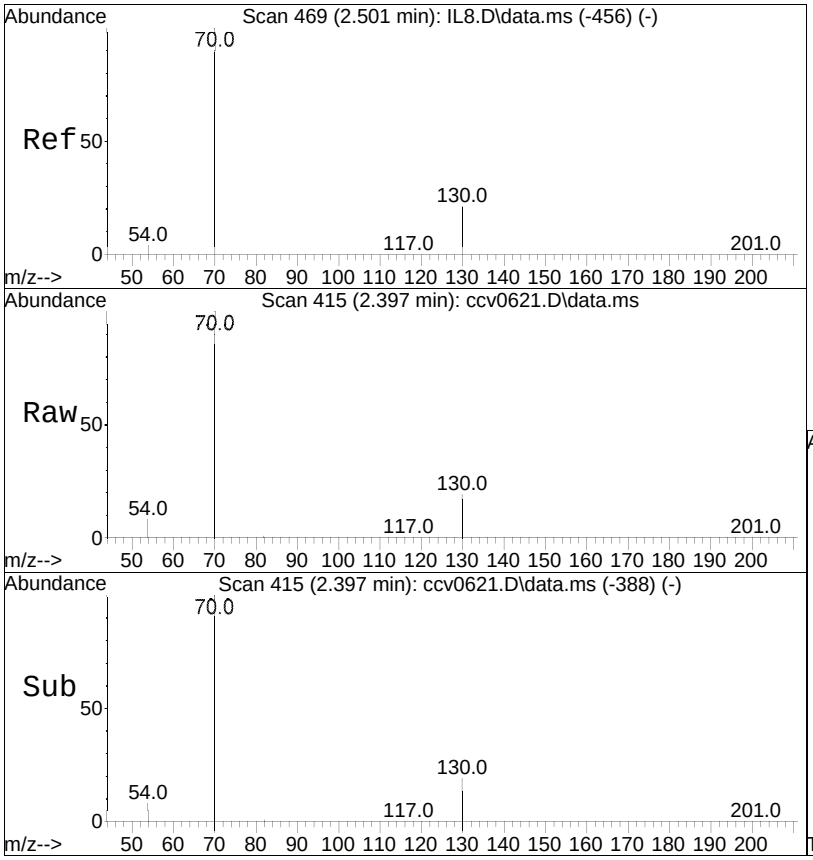


#4
Bis(2-chloroethyl)ether
Concen: 926.78 ng/ml
RT: 2.063 min Scan# 298
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion: 93 Resp: 39725

Ion	Ratio	Lower	Upper
93	100		
63	82.9	68.6	102.8

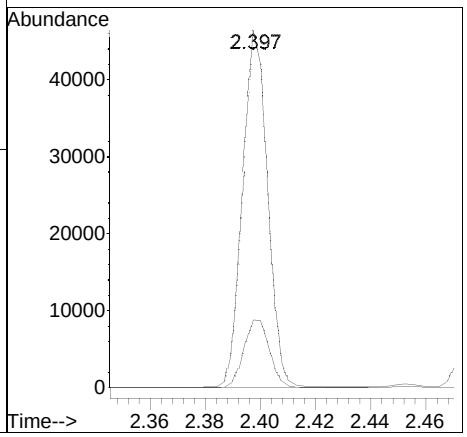


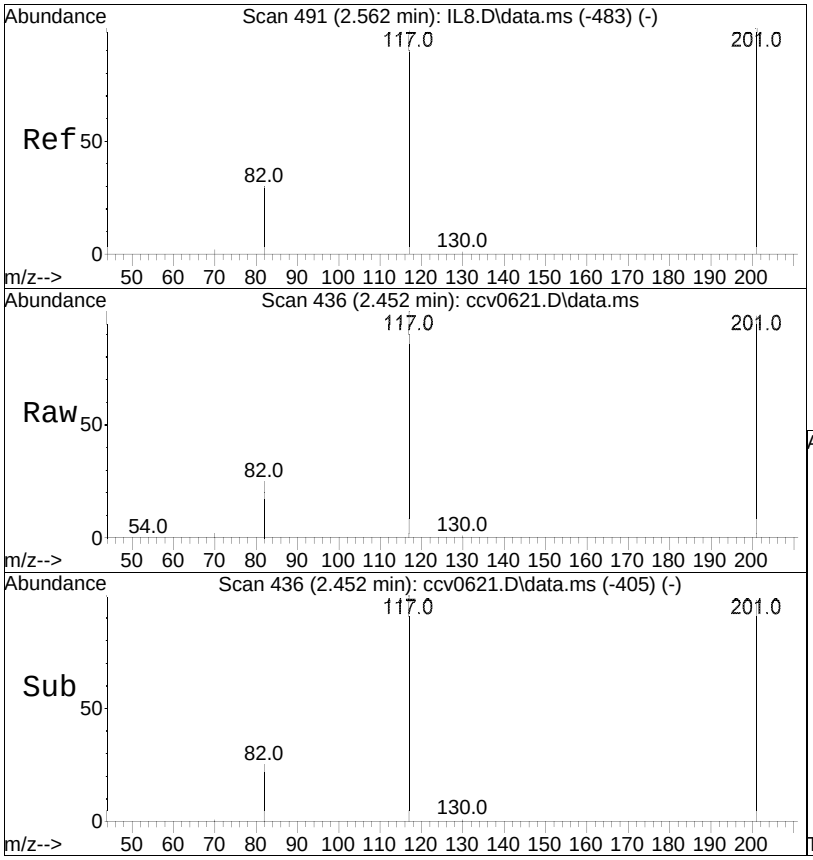


#5
n-nitrosodi-n-propylamine
Concen: 976.67 ng/ml
RT: 2.397 min Scan# 415
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion: 70 Resp: 28707

Ion	Ratio	Lower	Upper
70	100		
130	19.6	15.1	22.7

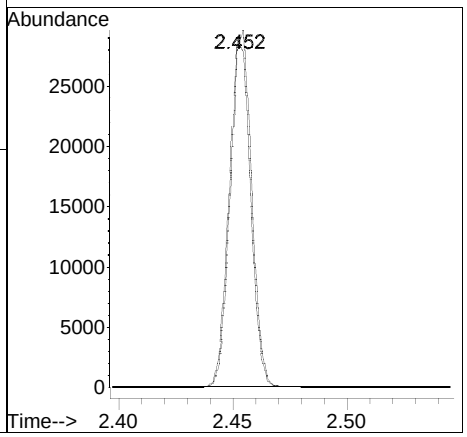


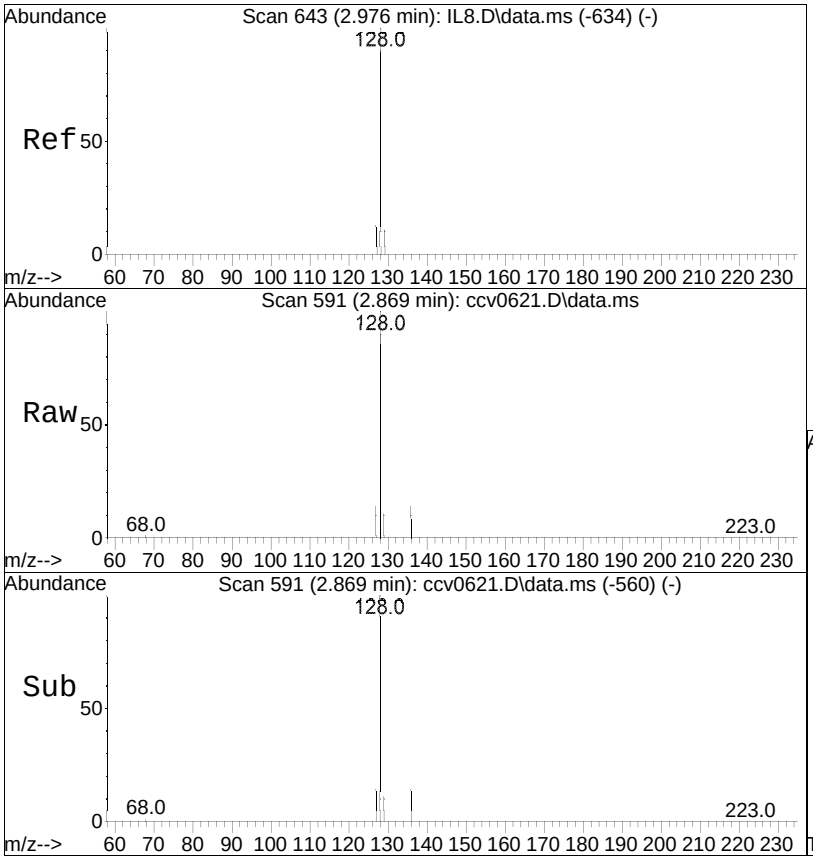


#6
Hexachloroethane
Concen: 950.39 ng/ml
RT: 2.452 min Scan# 436
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:117 Resp: 18458

Ion	Ratio	Lower	Upper
117	100		
201	102.0	79.4	119.2

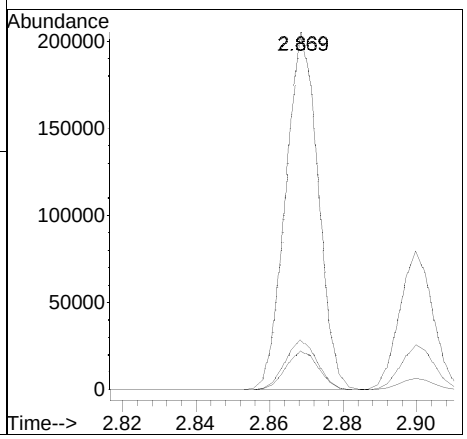


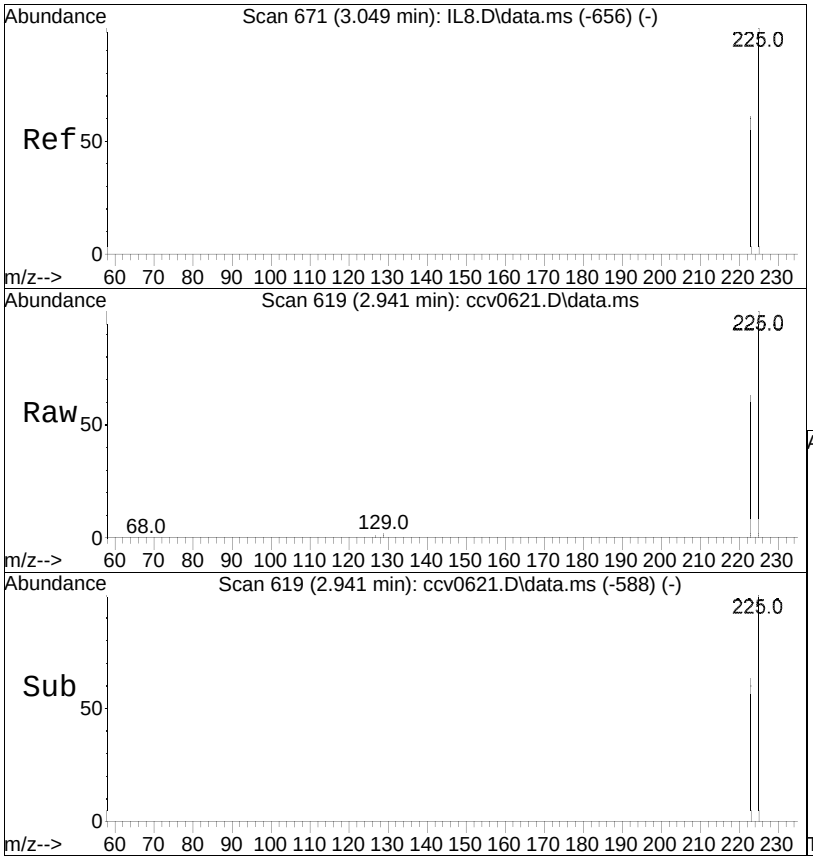


#9
Naphthalene
Concen: 884.28 ng/ml
RT: 2.869 min Scan# 591
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:128 Resp: 125253

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	13.8	11.3	16.9

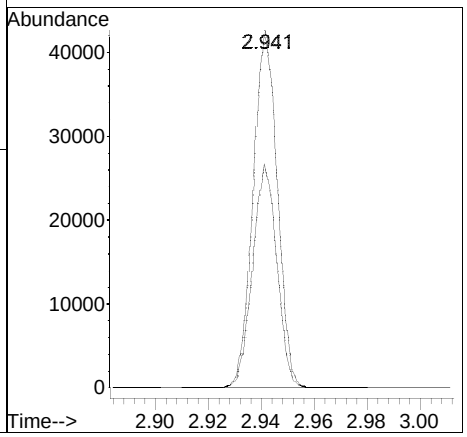


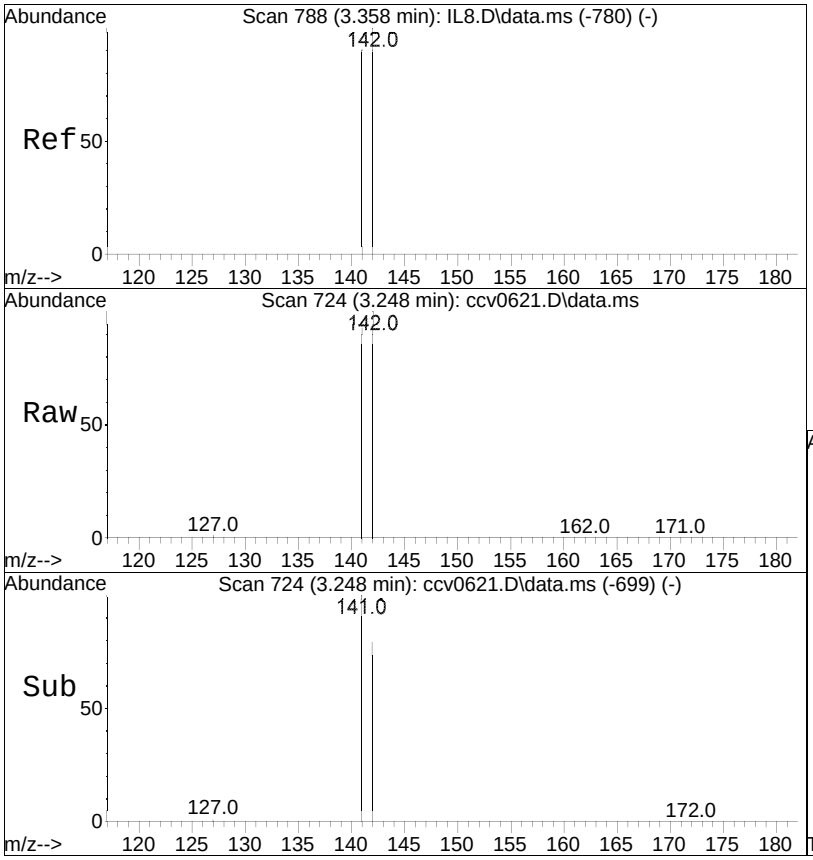


#10
Hexachlorobutadiene
Concen: 982.38 ng/ml
RT: 2.941 min Scan# 619
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:225 Resp: 26618

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.1	75.1

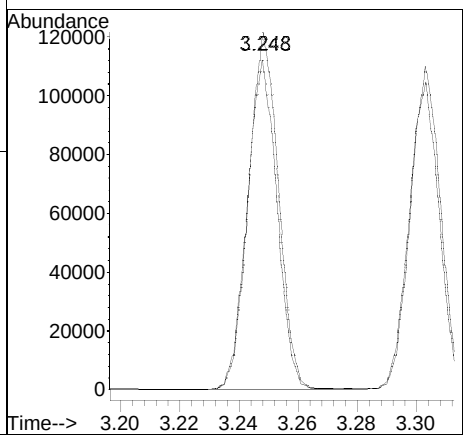


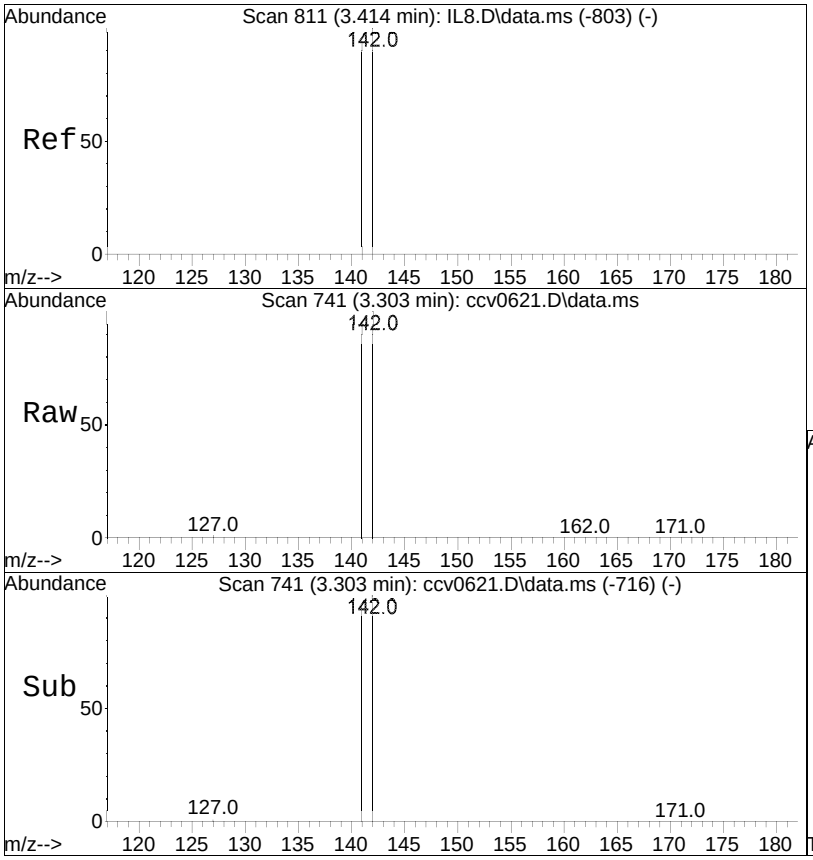


#11
2-Methylnaphthalene
Concen: 963.51 ng/ml
RT: 3.248 min Scan# 724
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:142 Resp: 85147

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.8	110.6

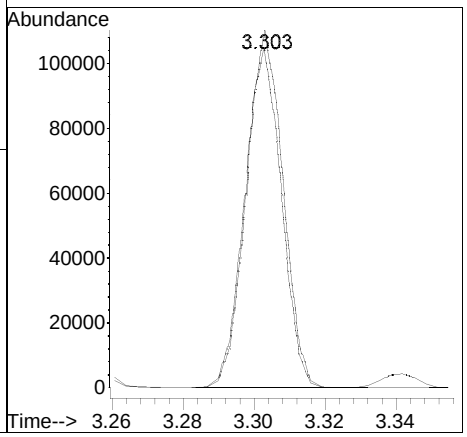


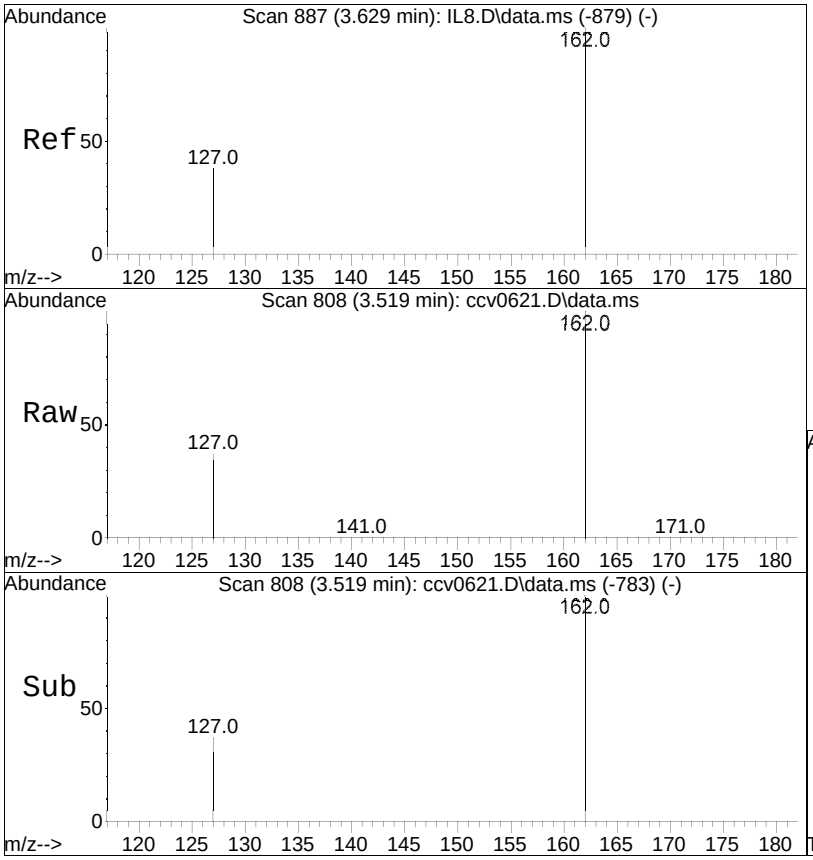


#12
1-Methylnaphthalene
Concen: 934.61 ng/ml
RT: 3.303 min Scan# 741
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:142 Resp: 77738

Ion	Ratio	Lower	Upper
142	100		
141	95.6	76.3	114.5

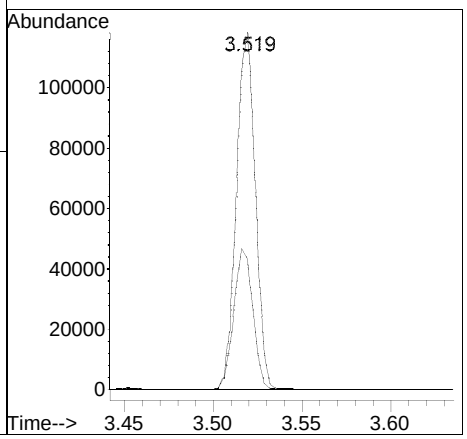


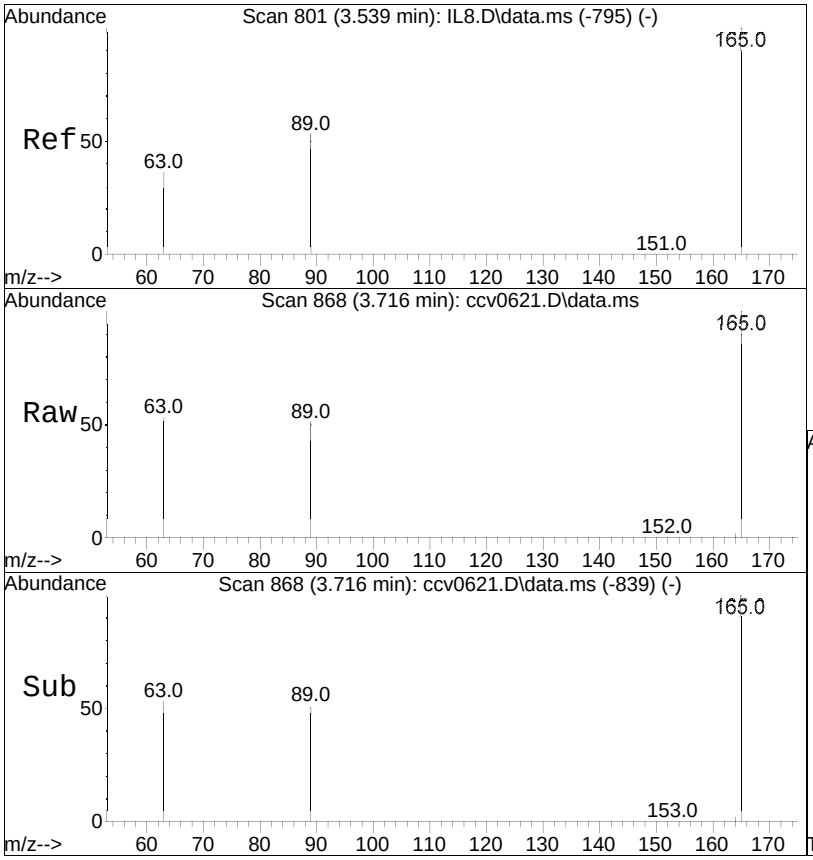


#14
2-Chloronaphthalene
Concen: 951.42 ng/ml
RT: 3.519 min Scan# 808
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:162 Resp: 85934

Ion	Ratio	Lower	Upper
162	100		
127	40.0	32.0	48.0

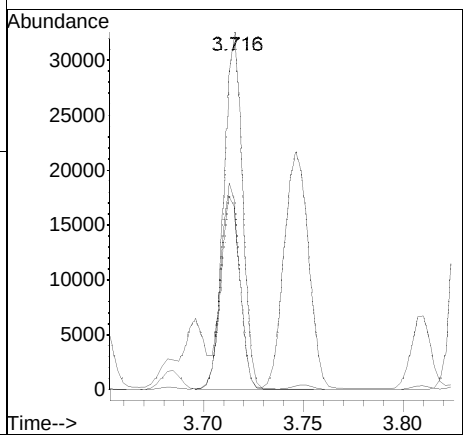


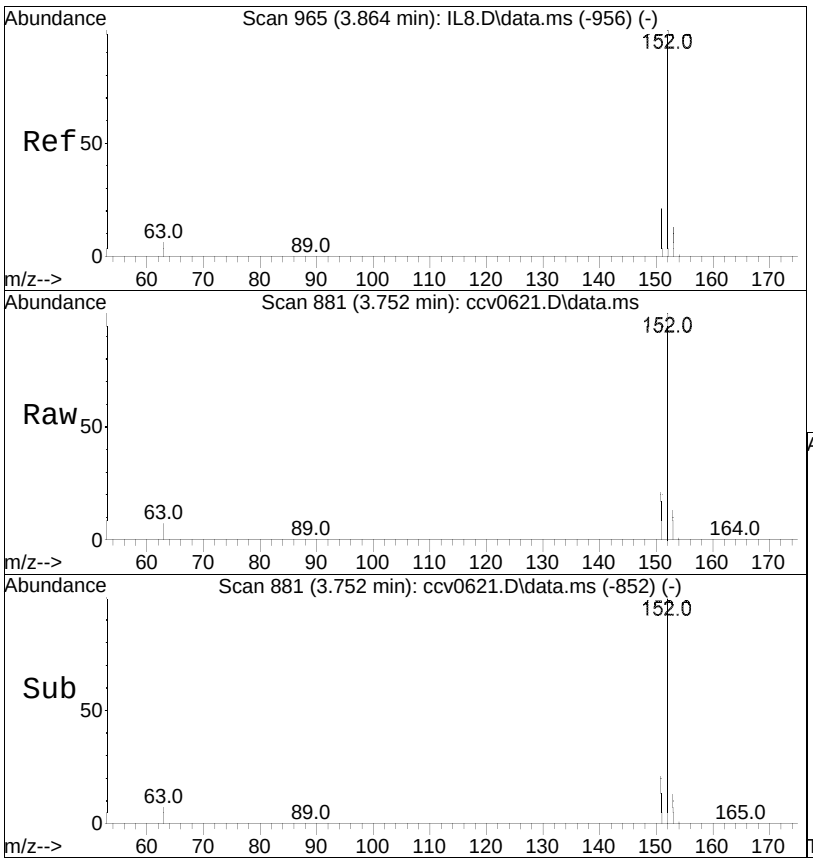


#15
2,6-Dinitrotoluene
Concen: 938.33 ng/ml
RT: 3.716 min Scan# 868
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:165 Resp: 21162

Ion	Ratio	Lower	Upper
165	100		
89	55.1	48.0	72.0
63	55.4	48.2	72.2

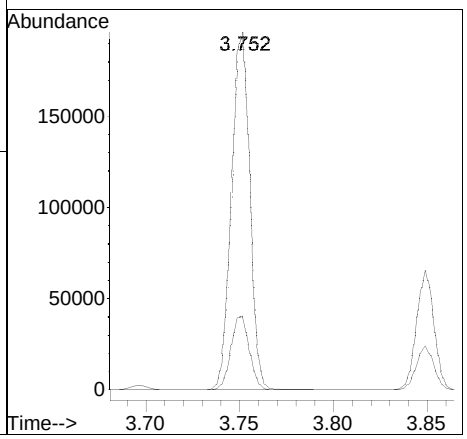


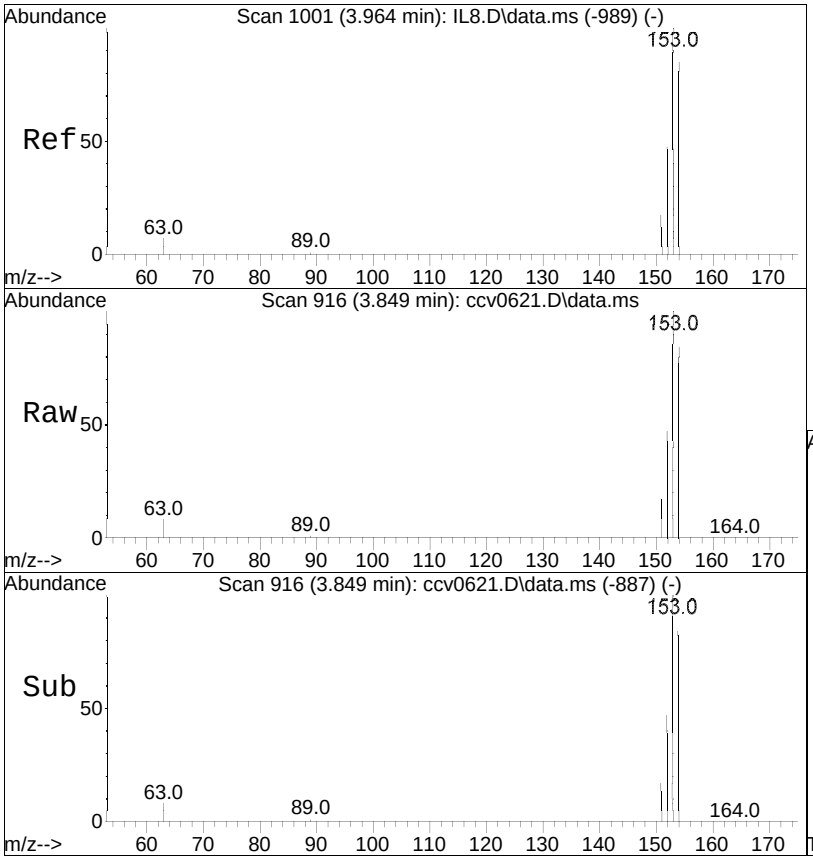


#16
Acenaphthylene
Concen: 994.69 ng/ml
RT: 3.752 min Scan# 881
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:152 Resp: 132222

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.5	24.7

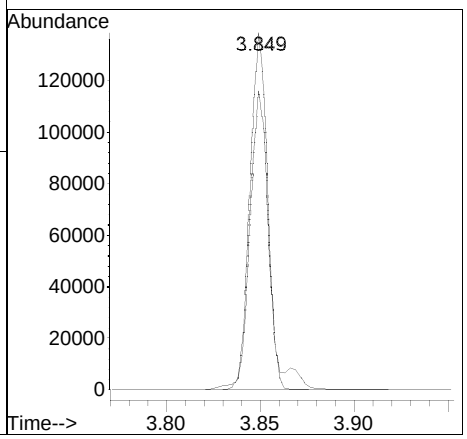


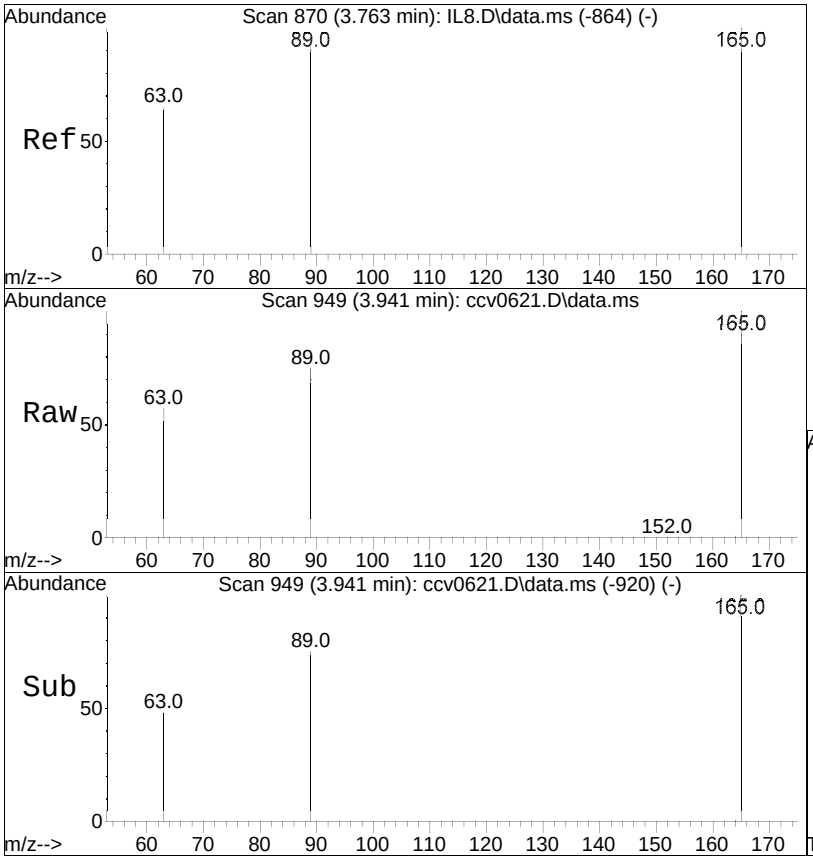


#18
Acenaphthene
Concen: 909.74 ng/ml
RT: 3.849 min Scan# 916
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:153 Resp: 89766

Ion	Ratio	Lower	Upper
153	100		
154	86.9	73.4	110.2

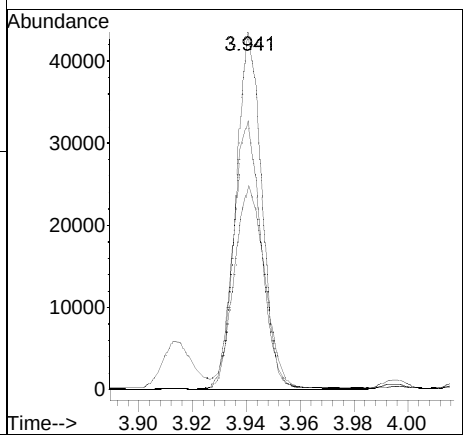


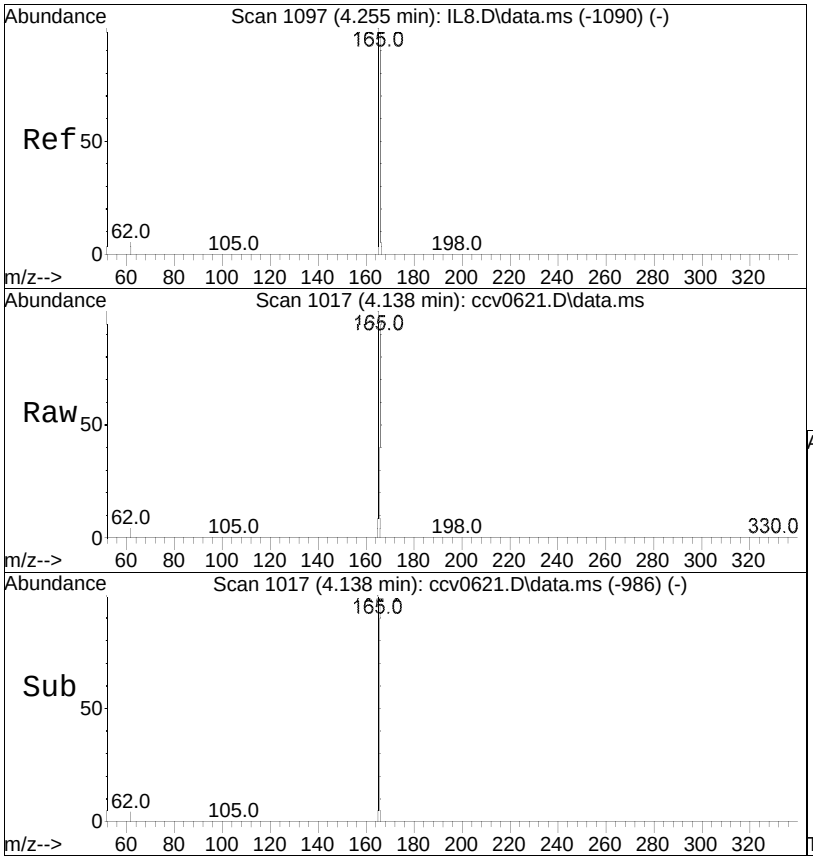


#19
2,4-Dinitrotoluene
Concen: 888.45 ng/ml
RT: 3.941 min Scan# 949
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:165 Resp: 28399

Ion	Ratio	Lower	Upper
165	100		
89	81.6	82.0	123.0#
63	67.8	73.0	109.6#

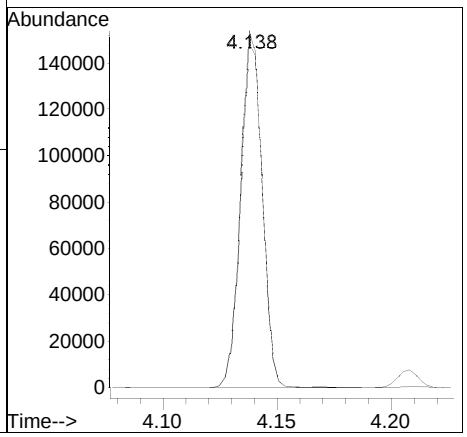


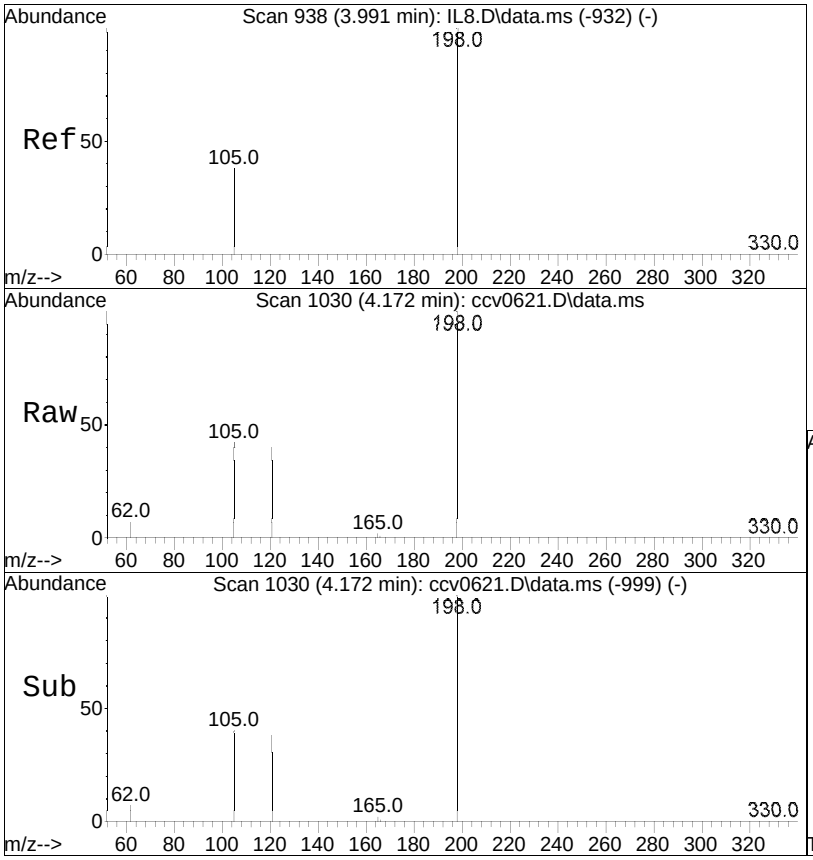


#20
Fluorene
Concen: 924.45 ng/ml
RT: 4.138 min Scan# 1017
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:166 Resp: 98326

Ion	Ratio	Lower	Upper
166	100		
165	102.6	81.9	122.9

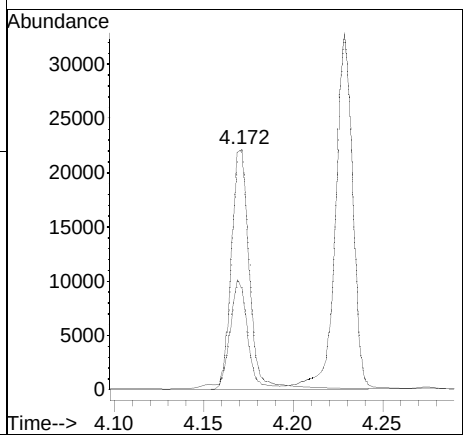


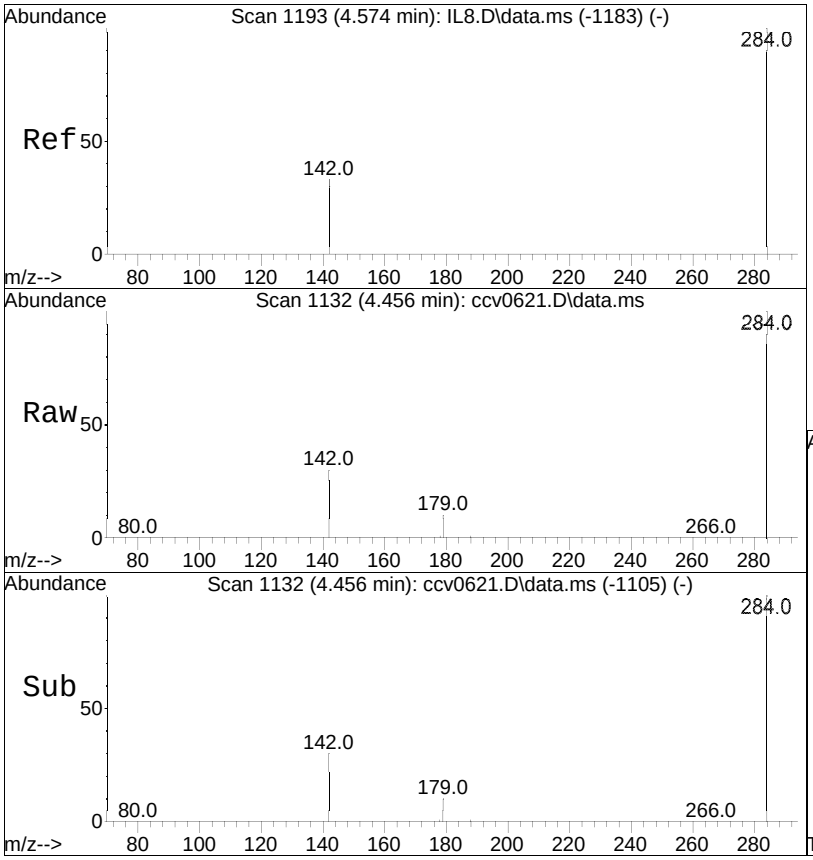


#23
4,6-Dinitro-o-cresol
Concen: 893.24 ng/ml
RT: 4.172 min Scan# 1030
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:198 Resp: 15449

Ion	Ratio	Lower	Upper
198	100		
105	45.0	37.8	56.8

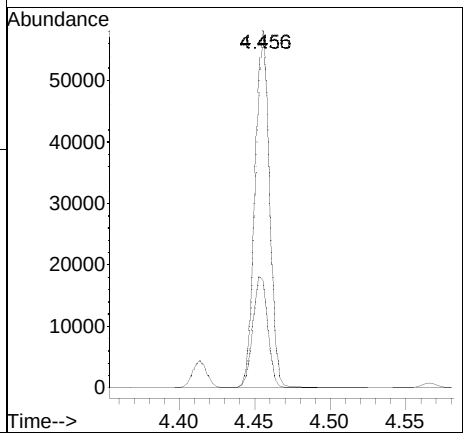


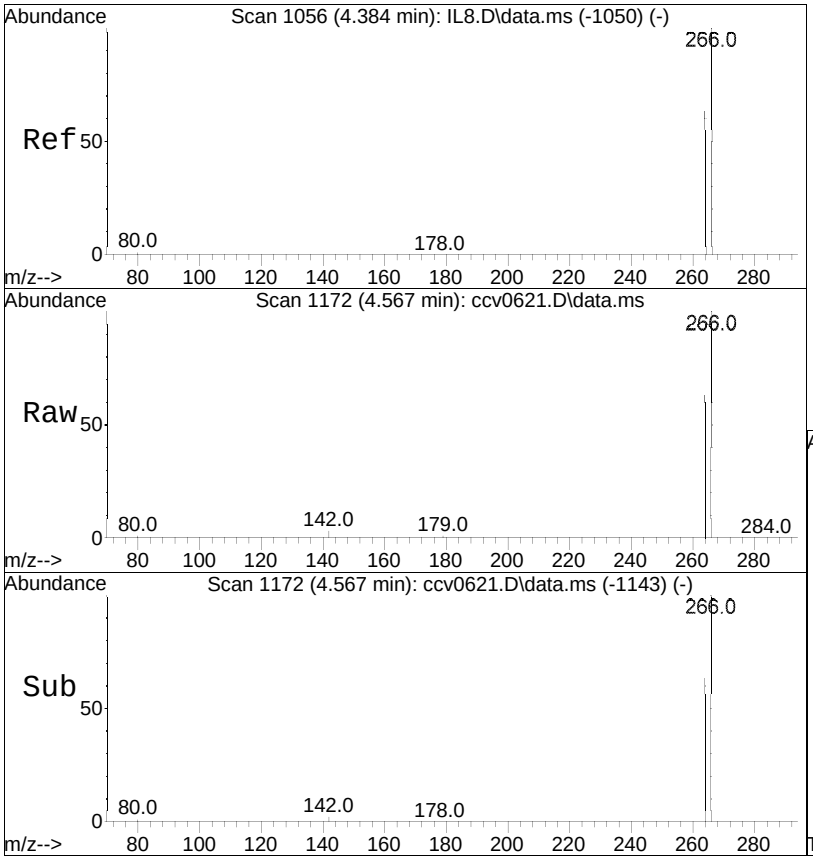


#24
Hexachlorobenzene
Concen: 901.09 ng/ml
RT: 4.456 min Scan# 1132
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:284 Resp: 38372

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.8	40.2

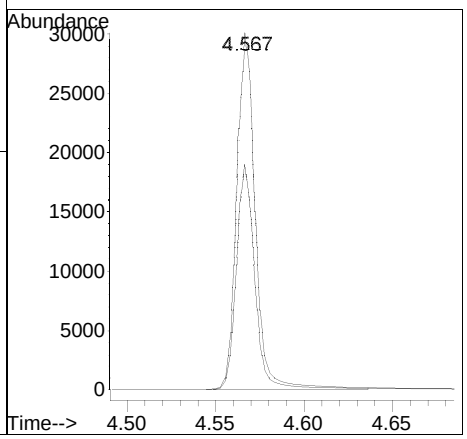


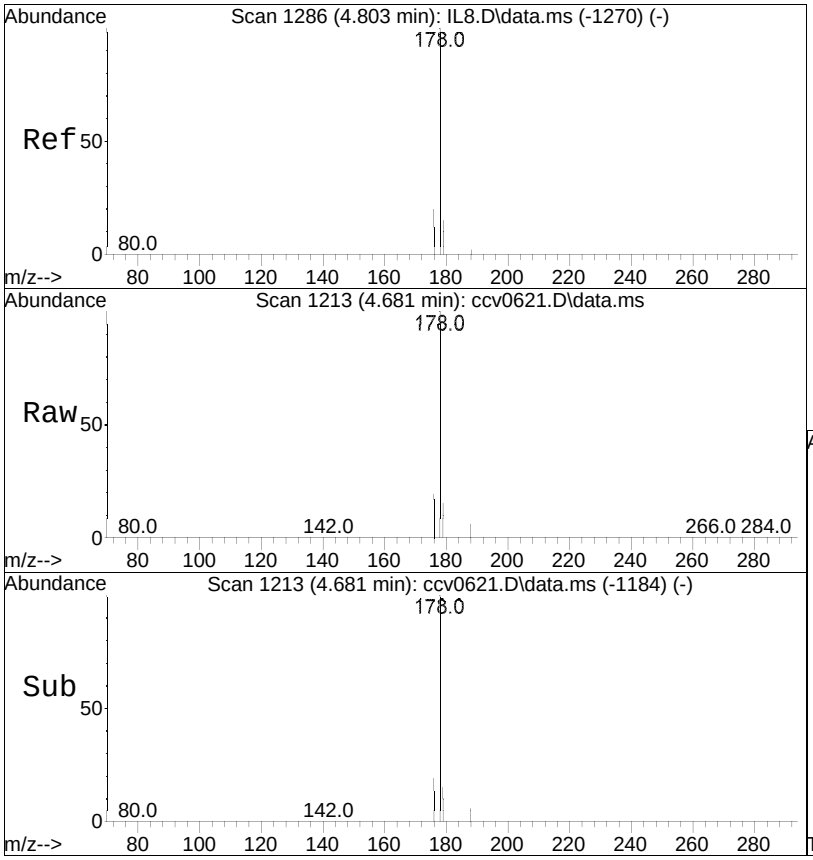


#25
Pentachlorophenol
Concen: 892.37 ng/ml
RT: 4.567 min Scan# 1172
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:266 Resp: 21766

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.2	75.2

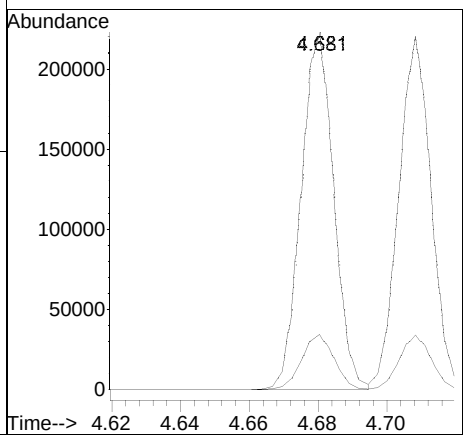


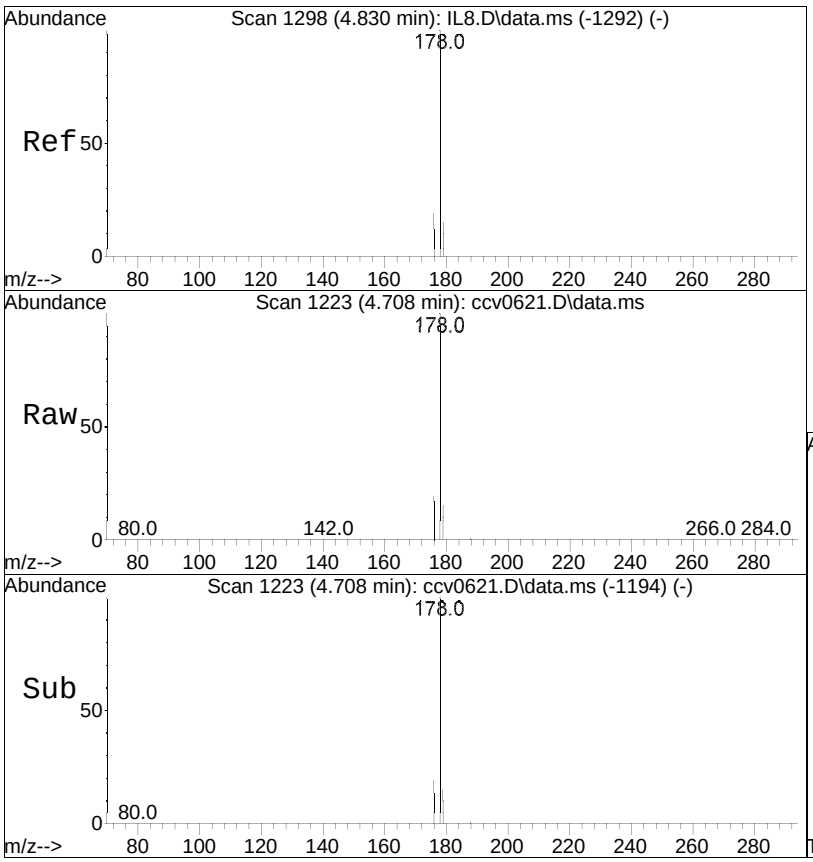


#26
Phenanthrene
Concen: 882.31 ng/ml
RT: 4.681 min Scan# 1213
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:178 Resp: 146621

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

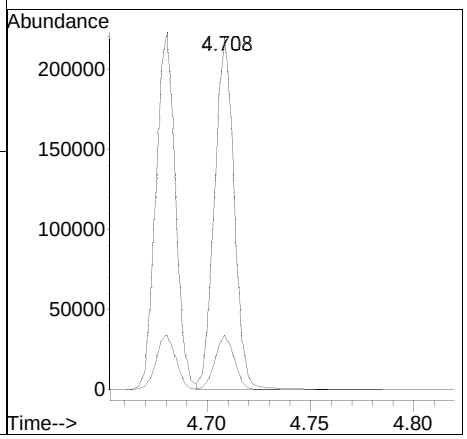


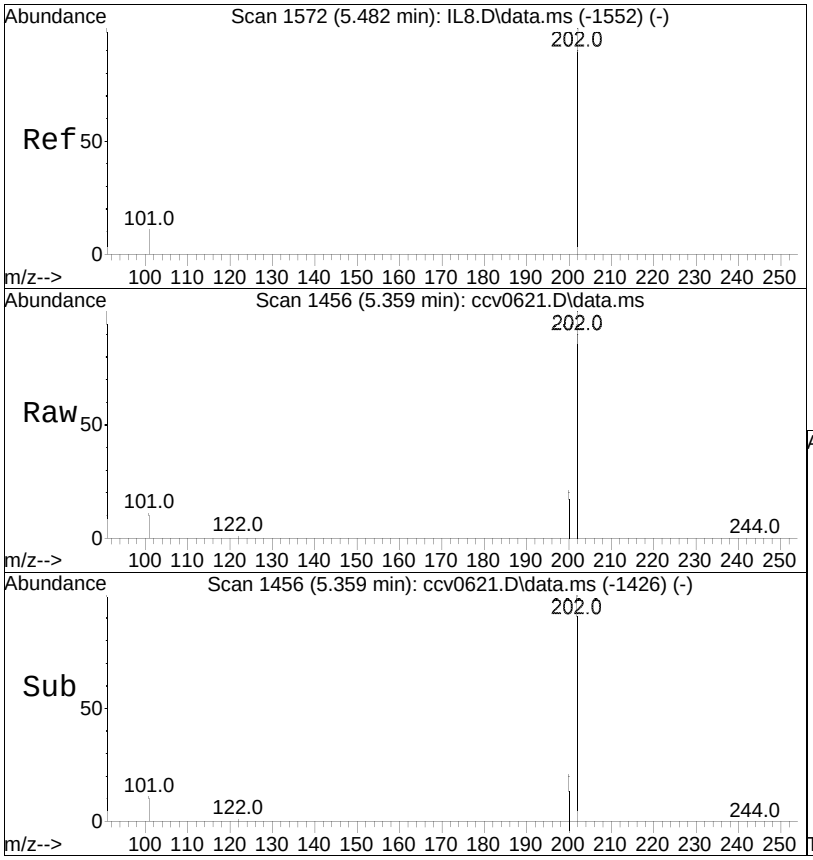


#27
Anthracene
Concen: 885.08 ng/ml
RT: 4.708 min Scan# 1223
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:178 Resp: 145322

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

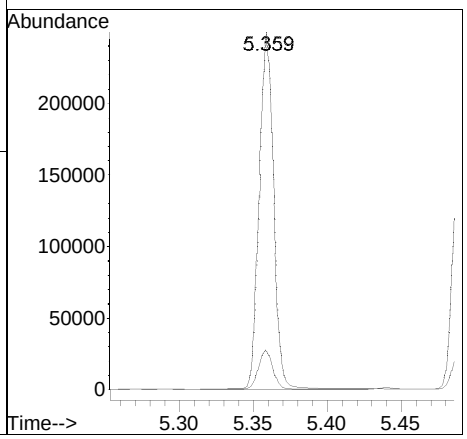


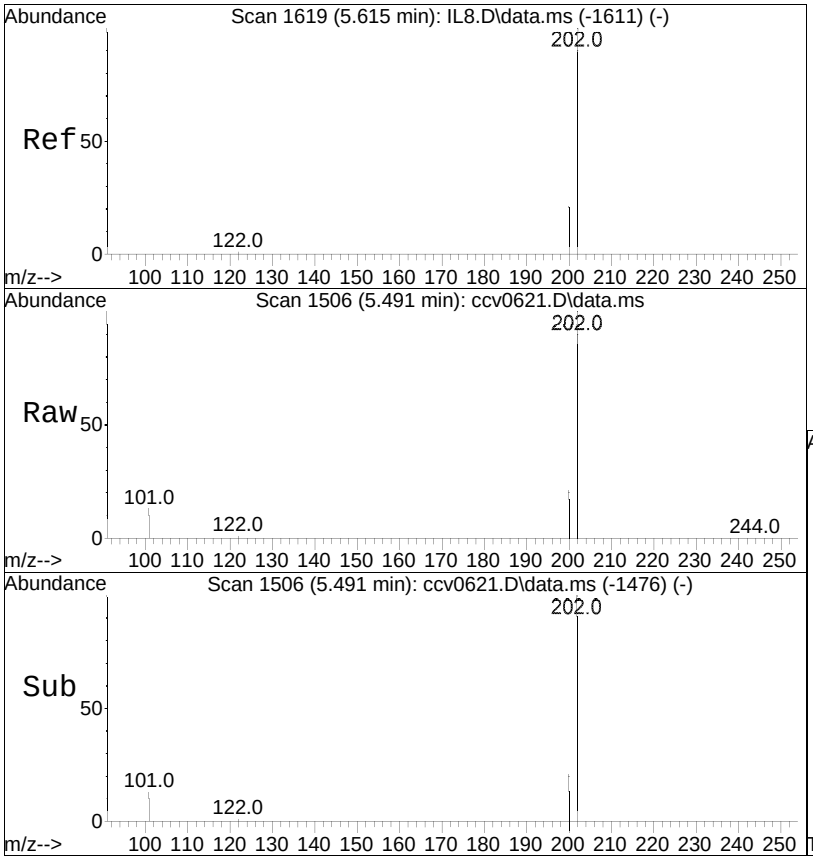


#28
Fluoranthene
Concen: 933.86 ng/ml
RT: 5.359 min Scan# 1456
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:202 Resp: 168307

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.0	13.6

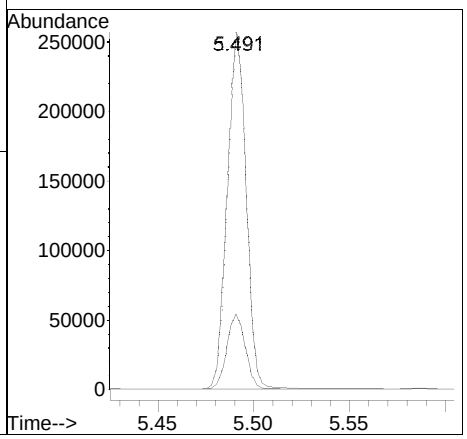


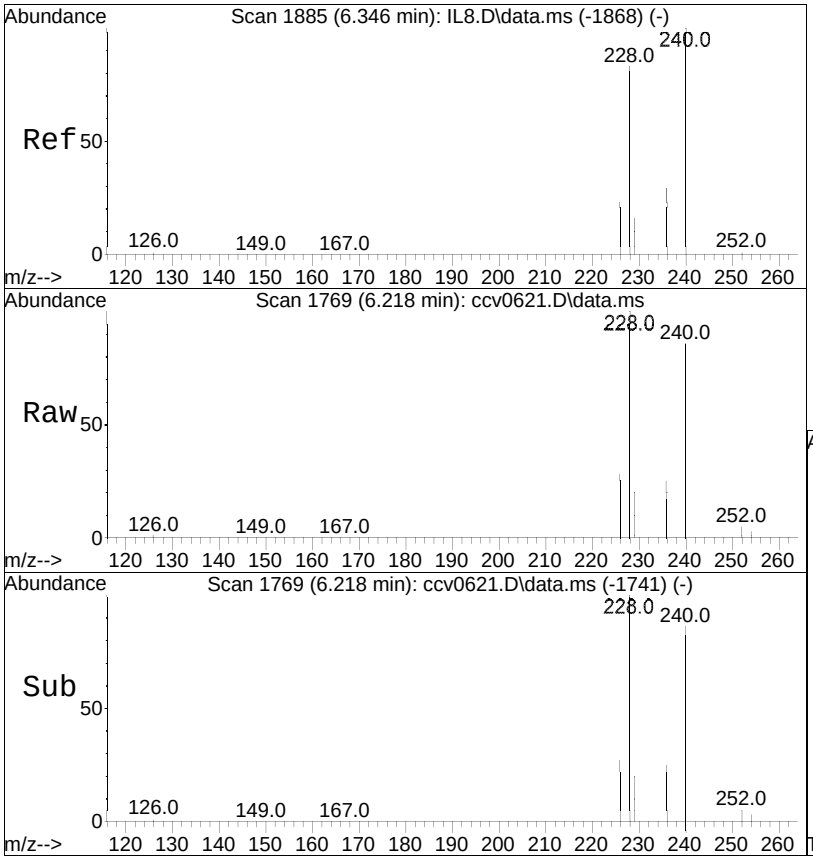


#29
Pyrene
Concen: 926.08 ng/ml
RT: 5.491 min Scan# 1506
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:202 Resp: 173070

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8

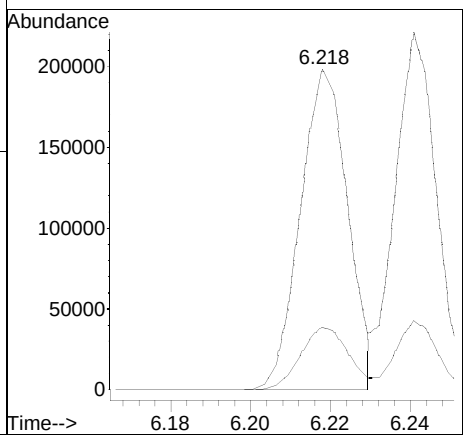


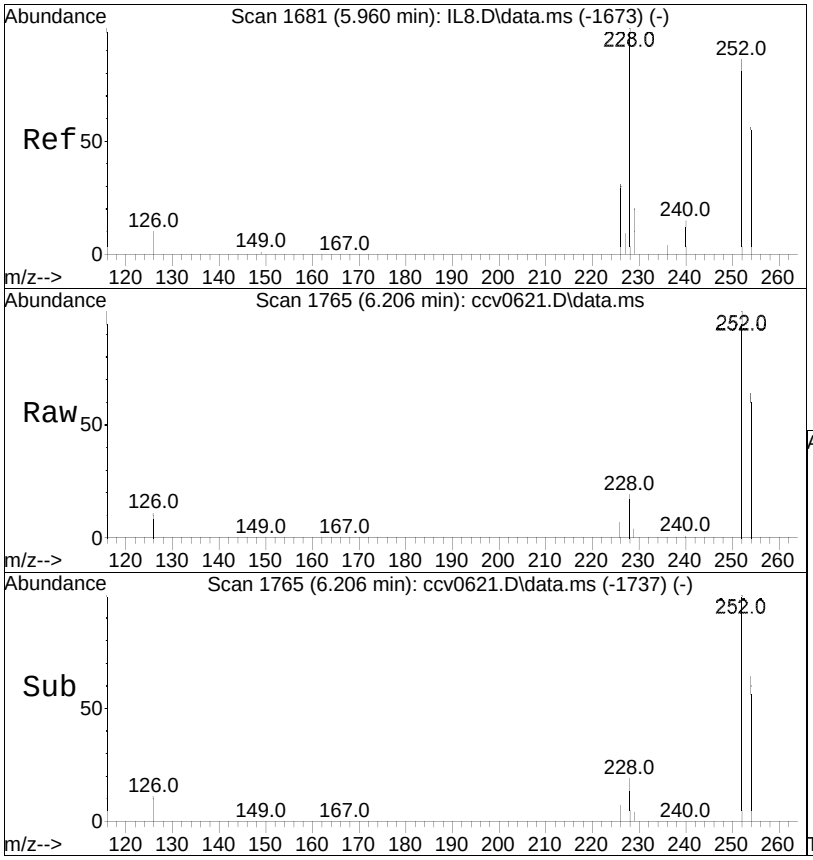


#32
Benzo[a]anthracene
Concen: 839.32 ng/ml
RT: 6.218 min Scan# 1769
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:228 Resp: 163497

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

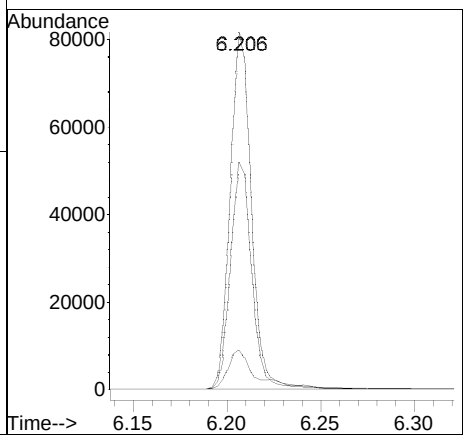


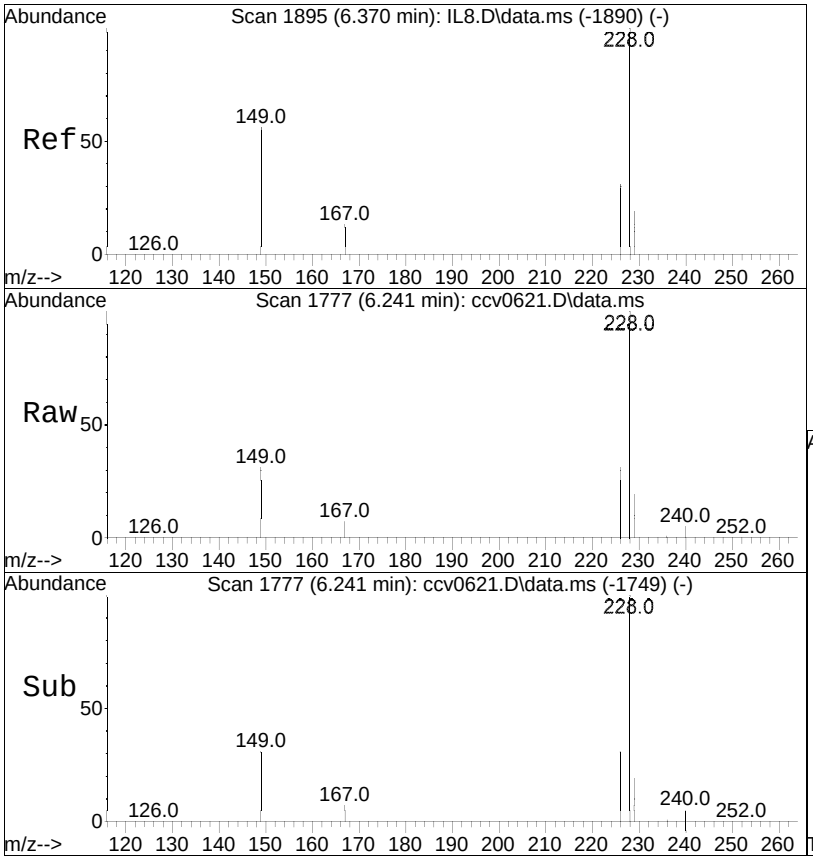


#33
3,3'-Dichlorobenzene
Concen: 938.31 ng/ml
RT: 6.206 min Scan# 1765
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:252 Resp: 63379

Ion	Ratio	Lower	Upper
252	100		
126	13.7	9.4	14.2
254	64.3	51.4	77.2

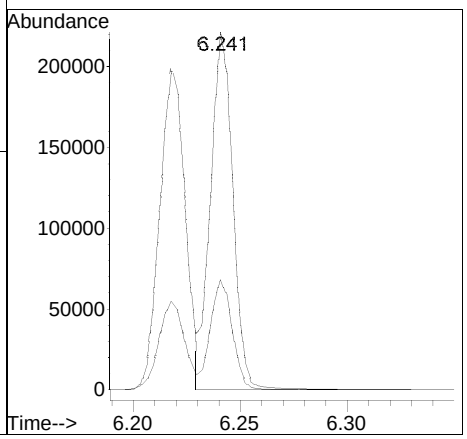


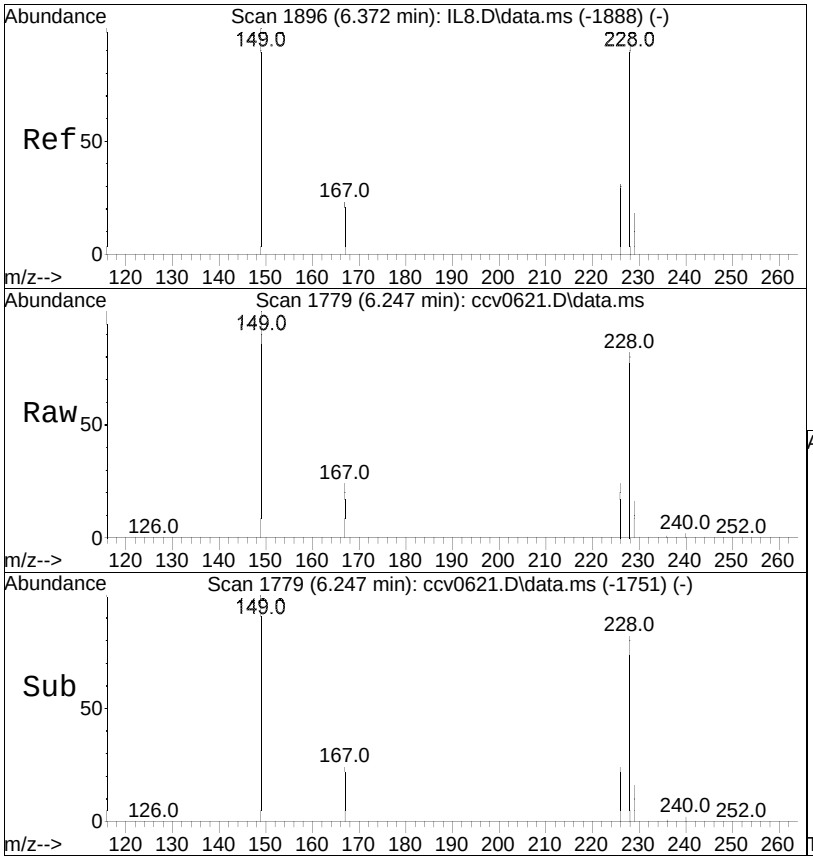


#34
Chrysene
Concen: 863.61 ng/ml
RT: 6.241 min Scan# 1777
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:228 Resp: 158674

Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.1	37.7

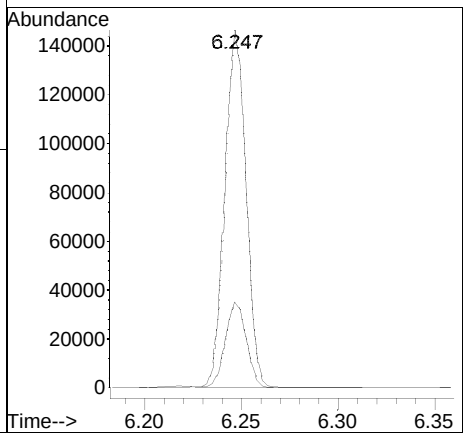


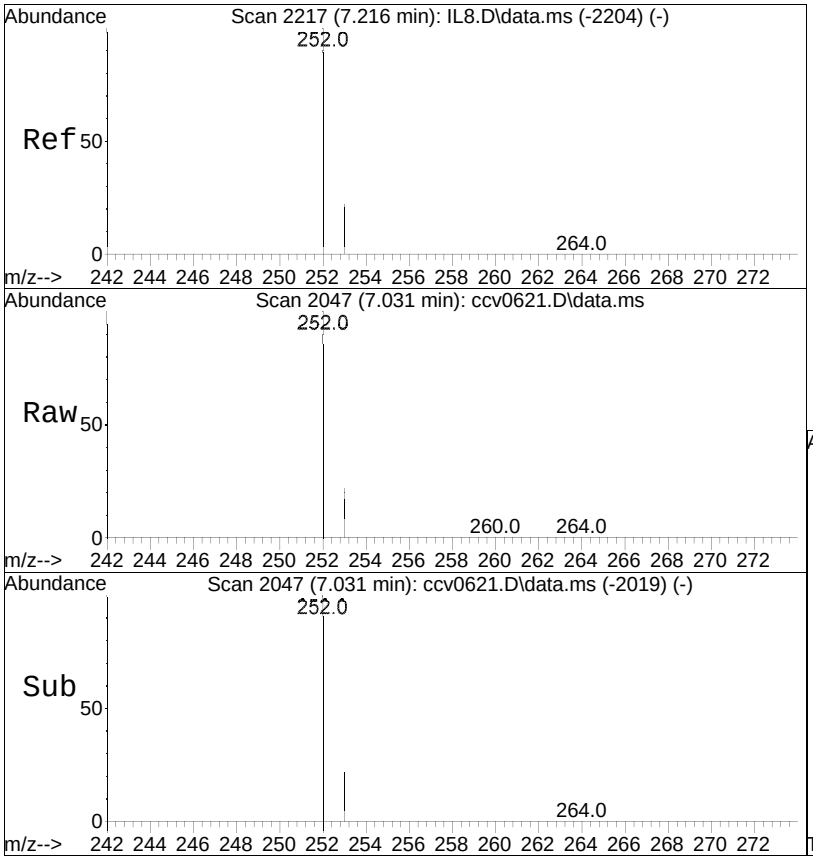


#35
Bis(2-ethylhexyl)phthalate
Concen: 887.61 ng/ml
RT: 6.247 min Scan# 1779
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:149 Resp: 109846

Ion	Ratio	Lower	Upper
149	100		
167	24.2	19.2	28.8

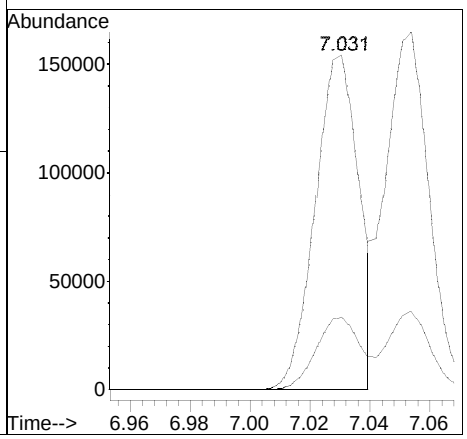


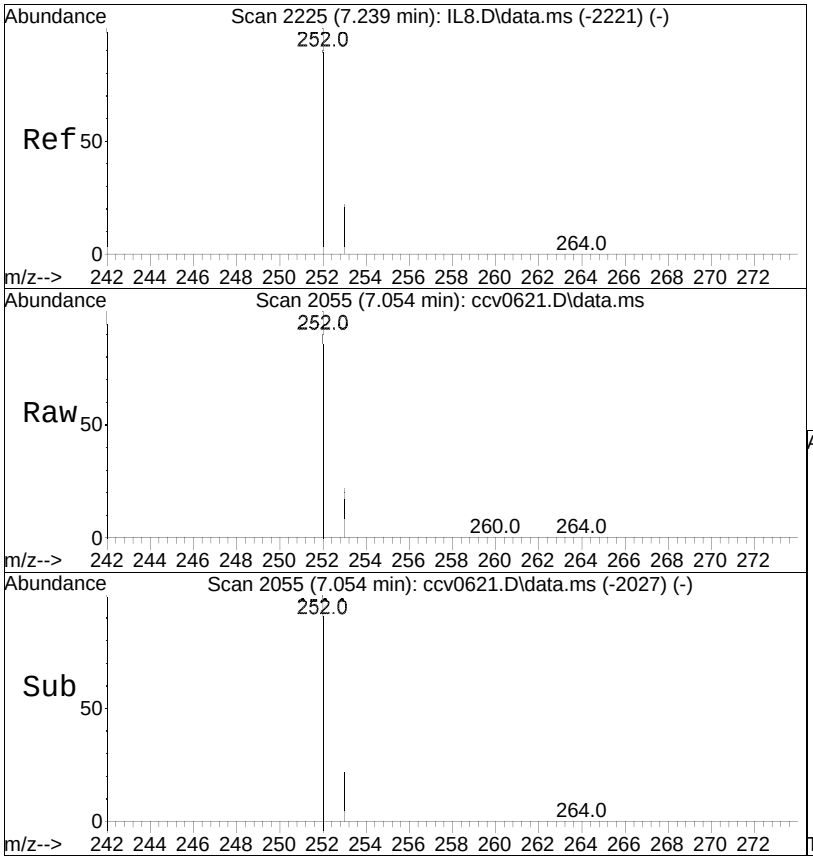


#37
Benzo[b]fluoranthene
Concen: 876.17 ng/ml
RT: 7.031 min Scan# 2047
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:252 Resp: 155697

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9

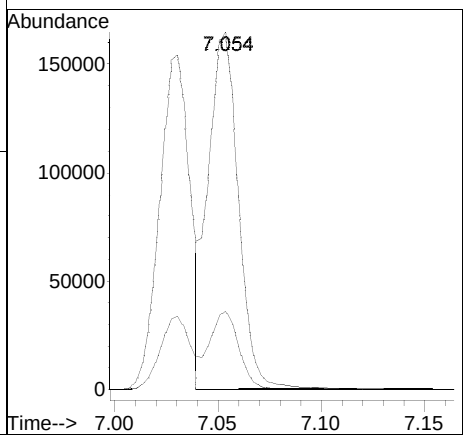


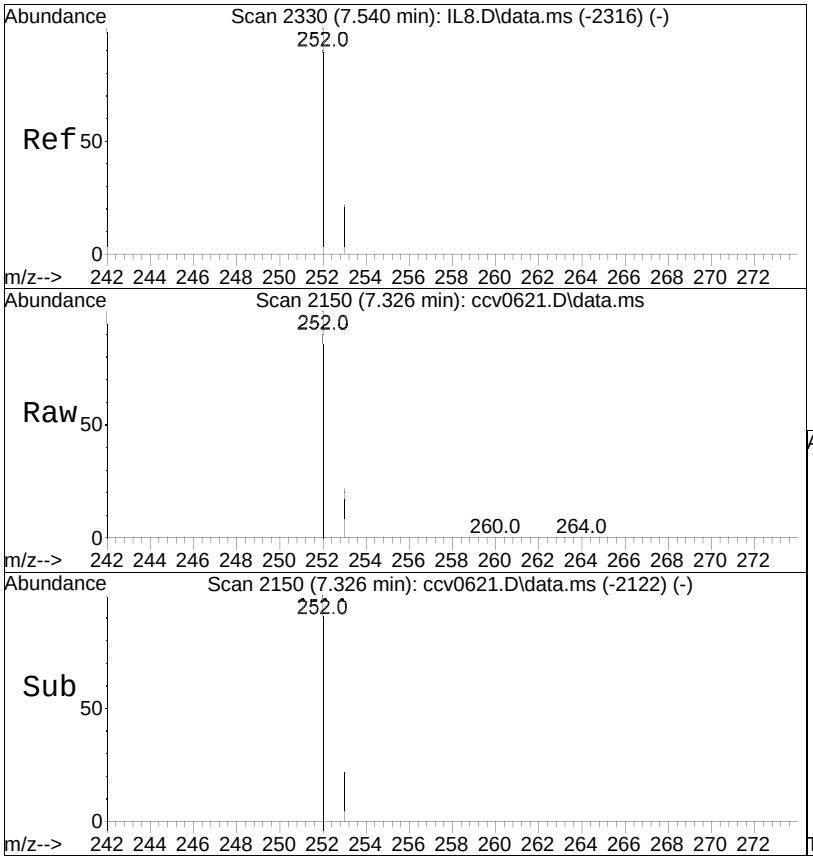


#38
Benzo[k]fluoranthene
Concen: 984.32 ng/ml
RT: 7.054 min Scan# 2055
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:252 Resp: 166523

Ion	Ratio	Lower	Upper
252	100		
253	20.4	17.5	26.3

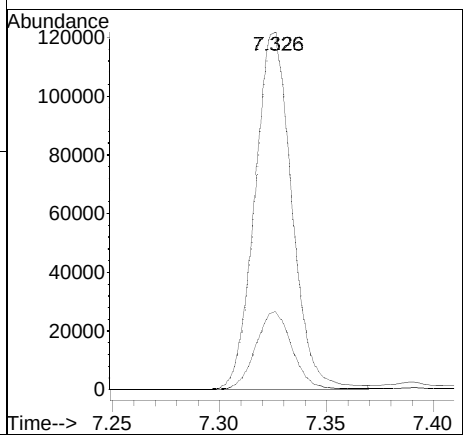


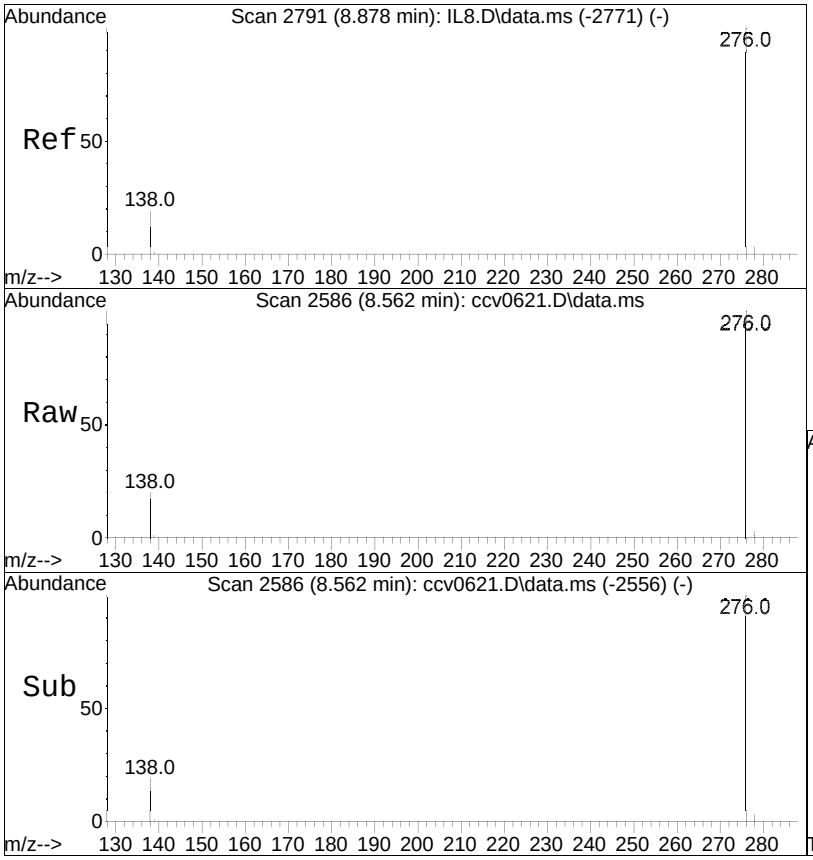


#39
Benzo[a]pyrene
Concen: 983.78 ng/ml
RT: 7.326 min Scan# 2150
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:252 Resp: 144109

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

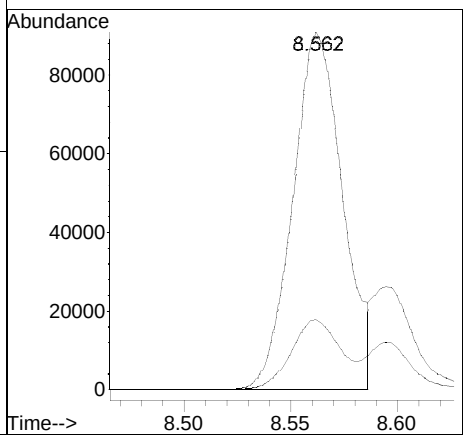


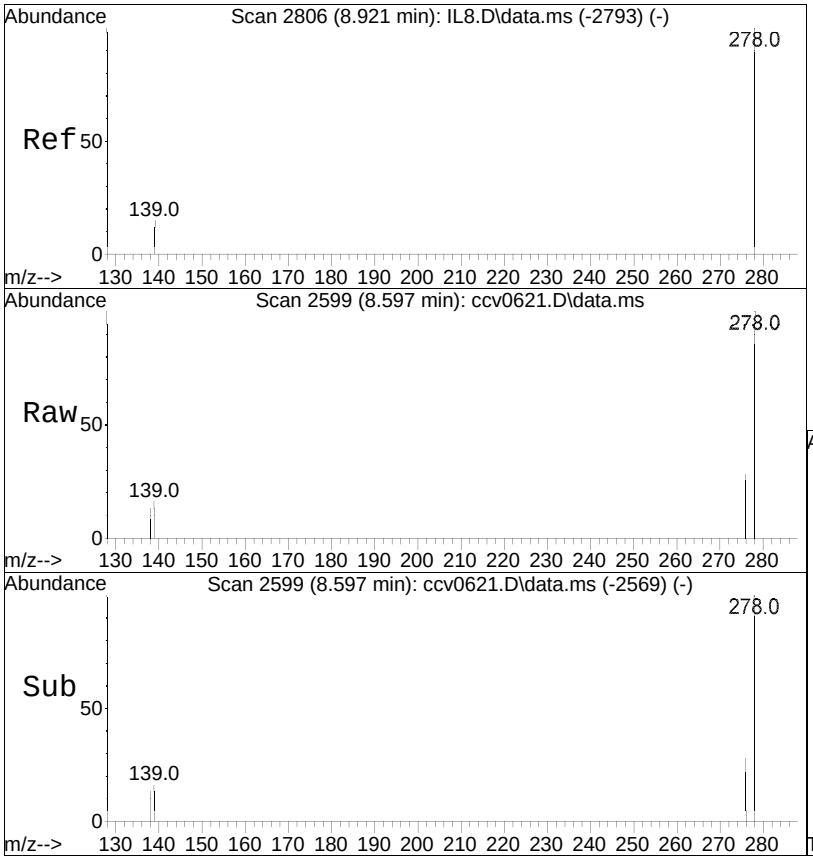


#40
Indeno[1,2,3-cd]pyrene
Concen: 1064.73 ng/ml
RT: 8.562 min Scan# 2586
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:276 Resp: 146887

Ion	Ratio	Lower	Upper
276	100		
138	19.3	16.6	24.8

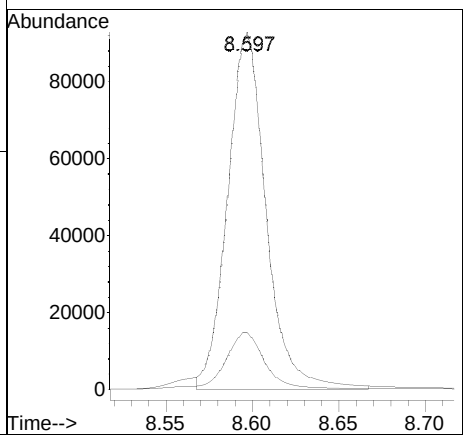


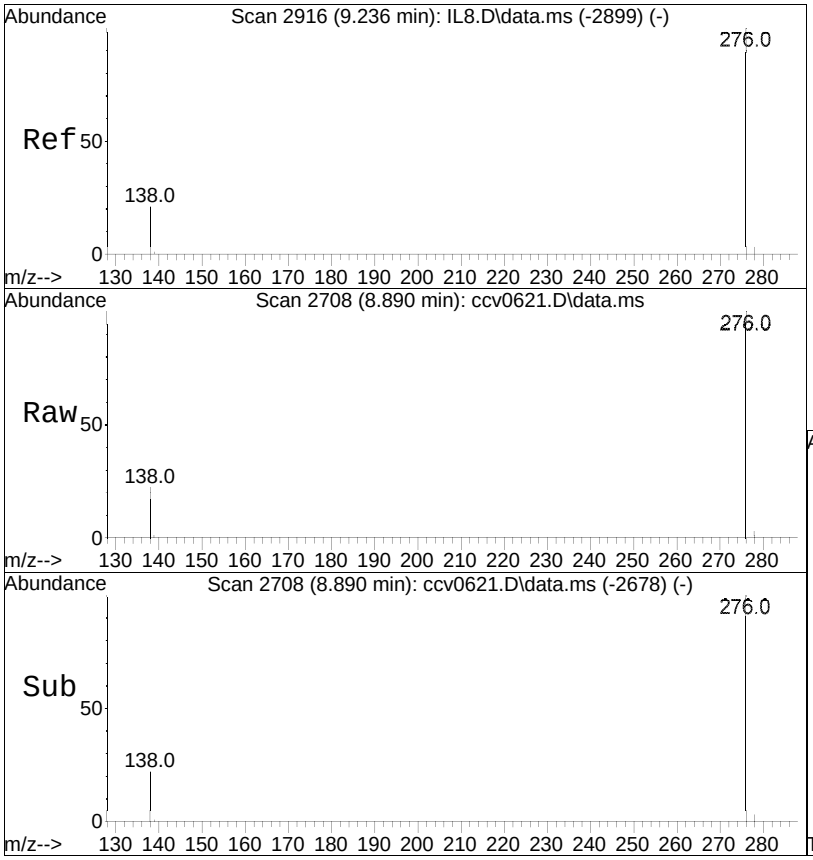


#41
Dibenzo[a,h]anthracene
Concen: 1080.56 ng/ml M6
RT: 8.597 min Scan# 2599
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:278 Resp: 142746

Ion	Ratio	Lower	Upper
278	100		
139	16.5	14.0	21.0

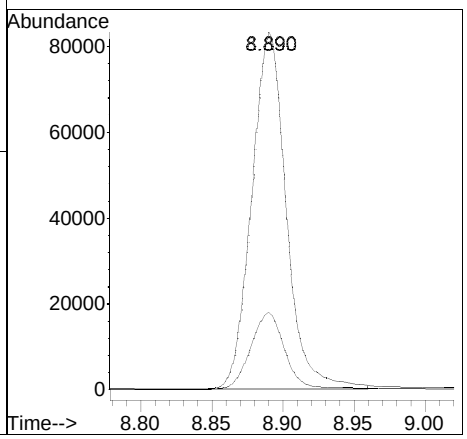




#42
Benzo[g,h,i]perylene
Concen: 990.35 ng/ml
RT: 8.890 min Scan# 2708
Delta R.T. 0.000 min
Lab File: ccv0621.D
Acq: 21 Jun 2024 09:01 am

Tgt Ion:276 Resp: 139000

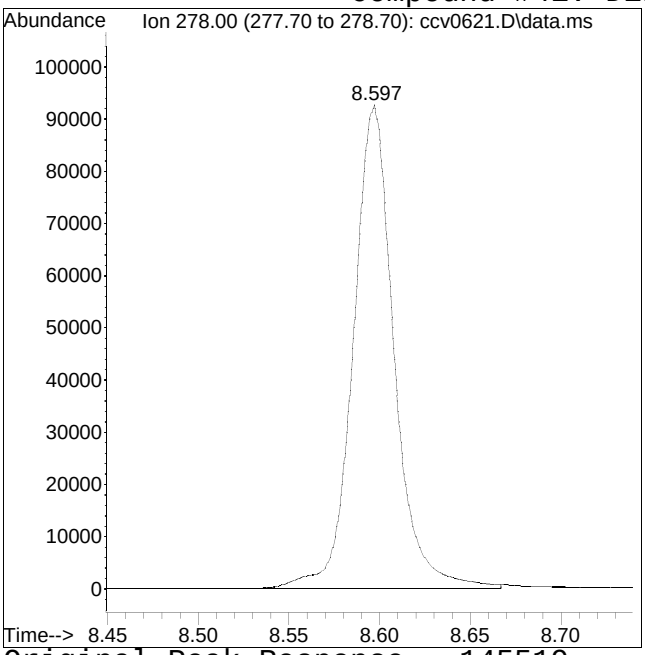
Ion	Ratio	Lower	Upper
276	100		
138	21.6	17.8	26.8



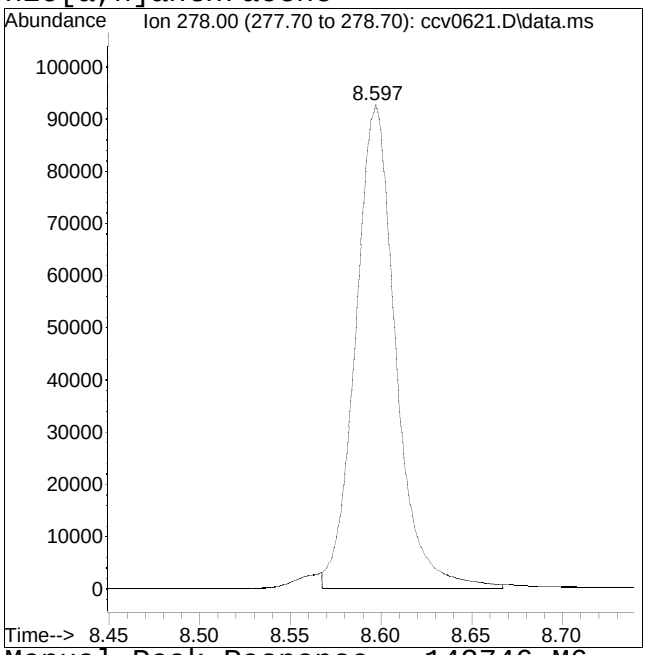
Manual Integration Report

Data Path : I:\8270SIM\sv120\240621RVTQMethod : SIM-RVT_240521_sv120.M
Data File : ccv0621.D Operator : SV120:jjw
Date Inj'd : 6/21/2024 9:01 am Instrument : SV120
Sample : WG1937540-3,32,, ICV10475 Quant Date : 6/21/2024 9:20 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 145519



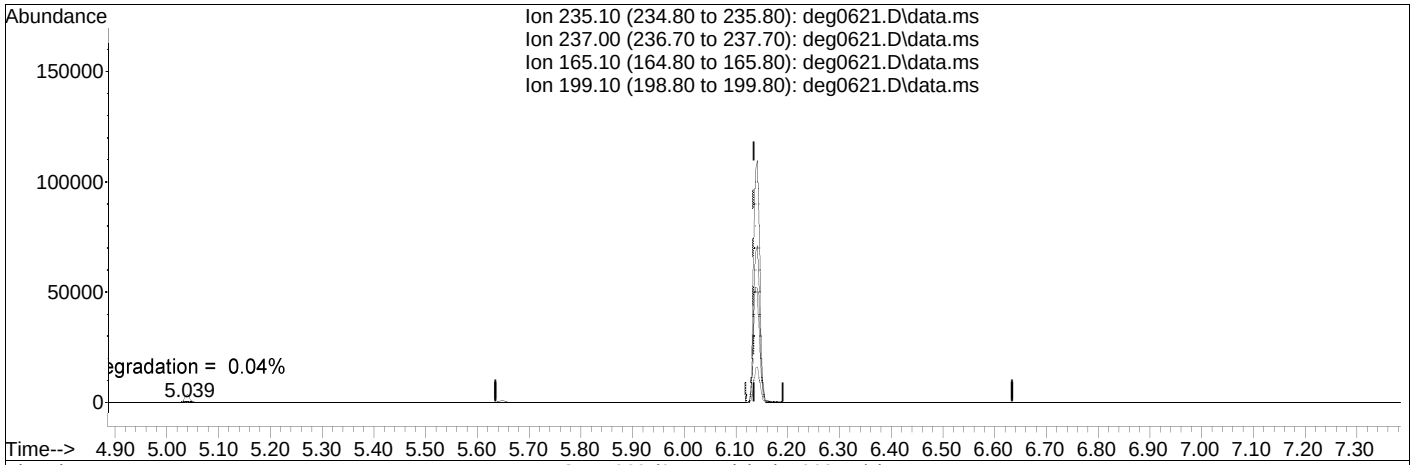
Manual Peak Response = 142746 M6

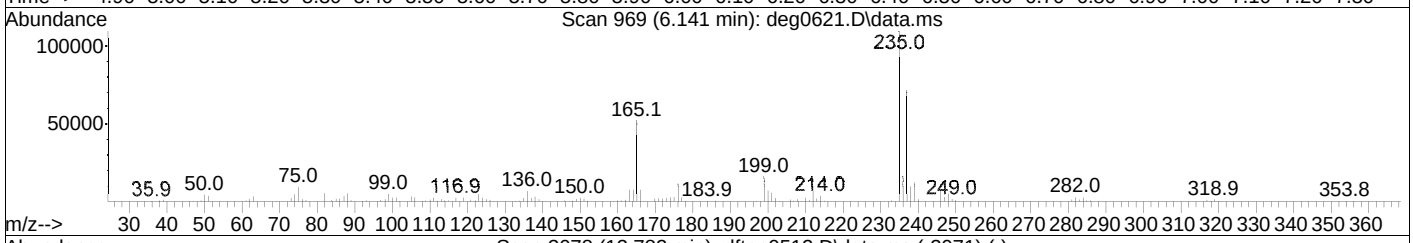
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

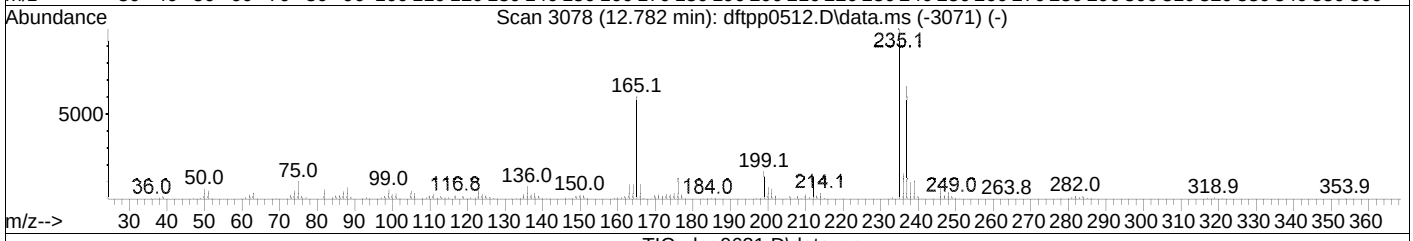
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : deg0621.D
Acq On : 21 Jun 2024 08:41 am
Operator : SV120:rp
Sample : WG1937540-2,32,, dftpp SV120 lot#10844
Misc : WG1937540,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 21 08:57:00 2024
Quant Method : I:\8270SIM\sv120\240621RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0621.D\data.ms

(6) ddt (T)

6.141min (+ 0.006) 13.64

response 83170

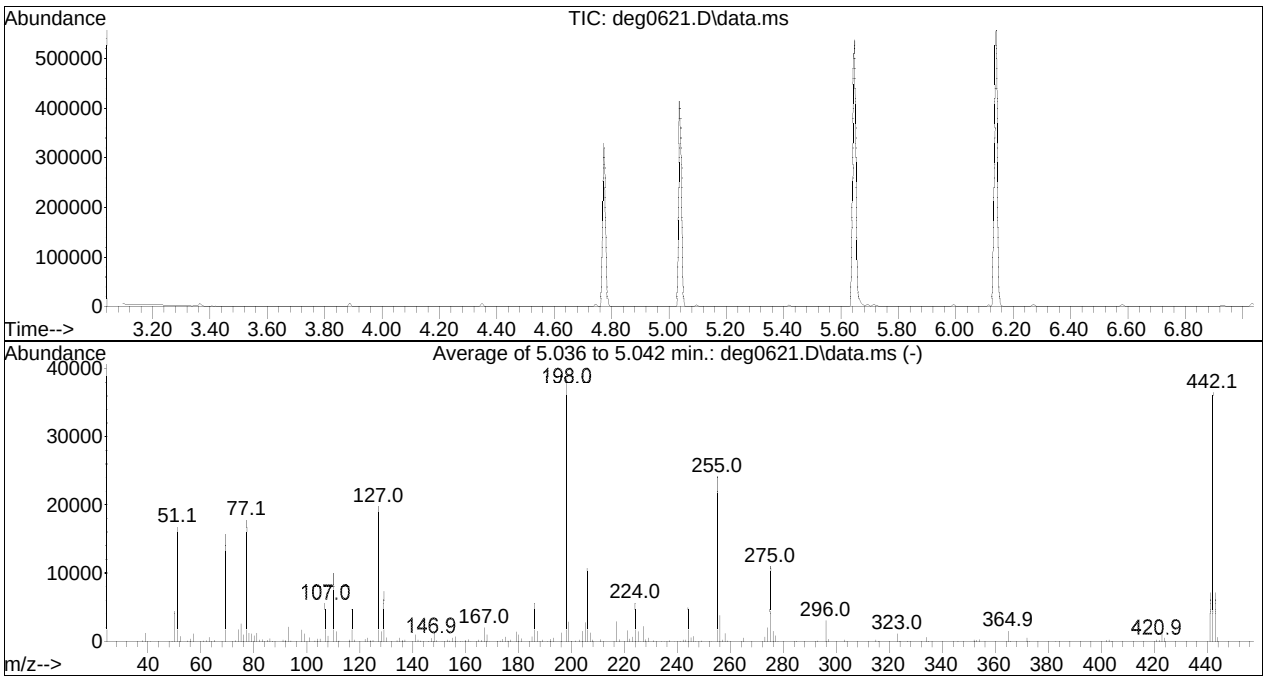
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.88
165.10	53.30	48.63
199.10	17.10	14.89

DFTPP

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : deg0621.D
Acq On : 21 Jun 2024 08:41 am
Operator : SV120:rp
Sample : WG1937540-1,32,, dftpp SV120 lot#10844
Misc : WG1937540,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240621RVT\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Jun 21 09:20:28 2024



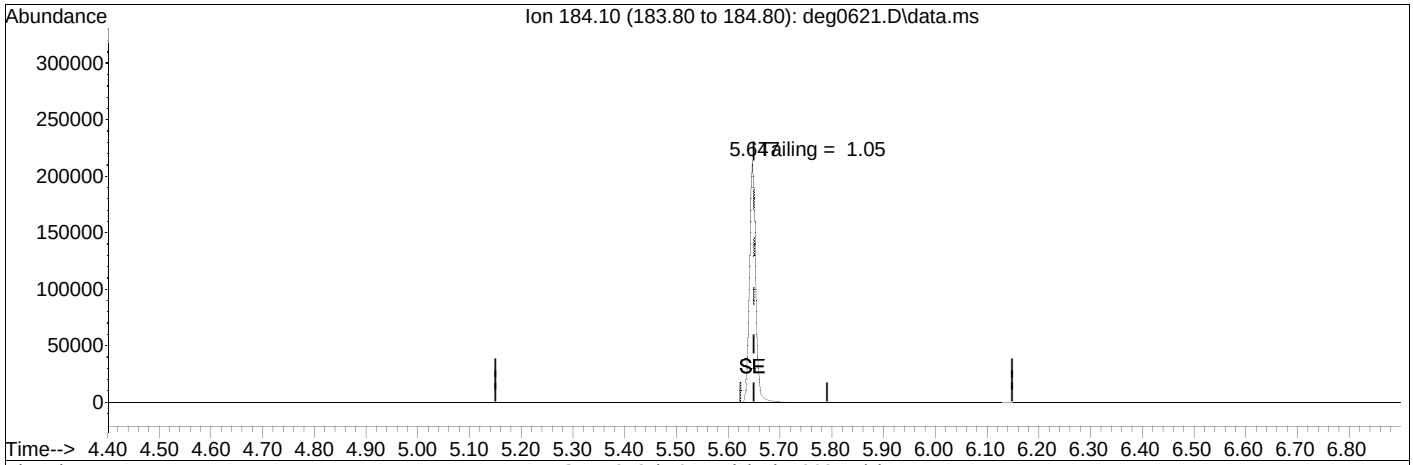
Spectrum Information: Average of 5.036 to 5.042 min.

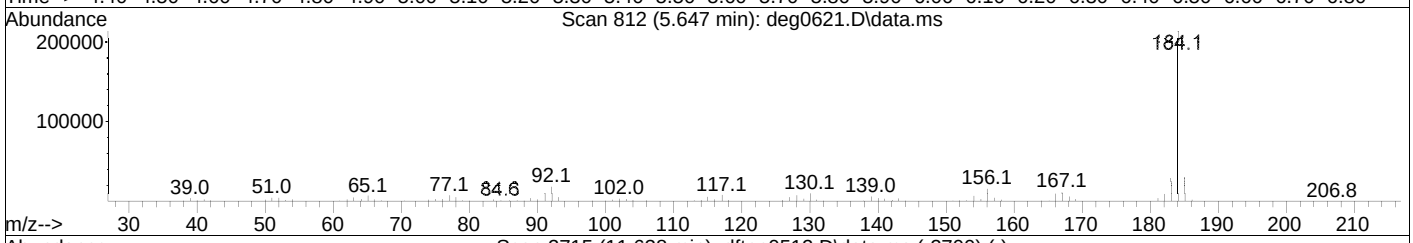
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.2	16681	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	15690	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	51.1	19749	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	38648	PASS
199	198	5	9	7.3	2813	PASS
275	198	10	60	28.3	10931	PASS
365	198	1	100	4.0	1551	PASS
441	442	0.01	24	19.5	7109	PASS
442	198	50	100	94.5	36520	PASS
443	442	15	24	19.4	7082	PASS

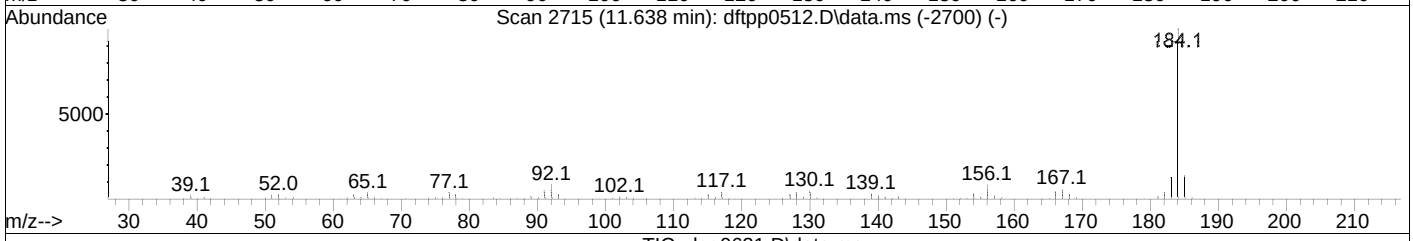
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : deg0621.D
Acq On : 21 Jun 2024 08:41 am
Operator : SV120:rp
Sample : WG1937540-4,32,, dftpp SV120 lot#10844
Misc : WG1937540,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 21 08:57:00 2024
Quant Method : I:\8270SIM\sv120\240621RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0621.D\data.ms

(3) benzidine (T)

5.647min (-0.003) 16.99

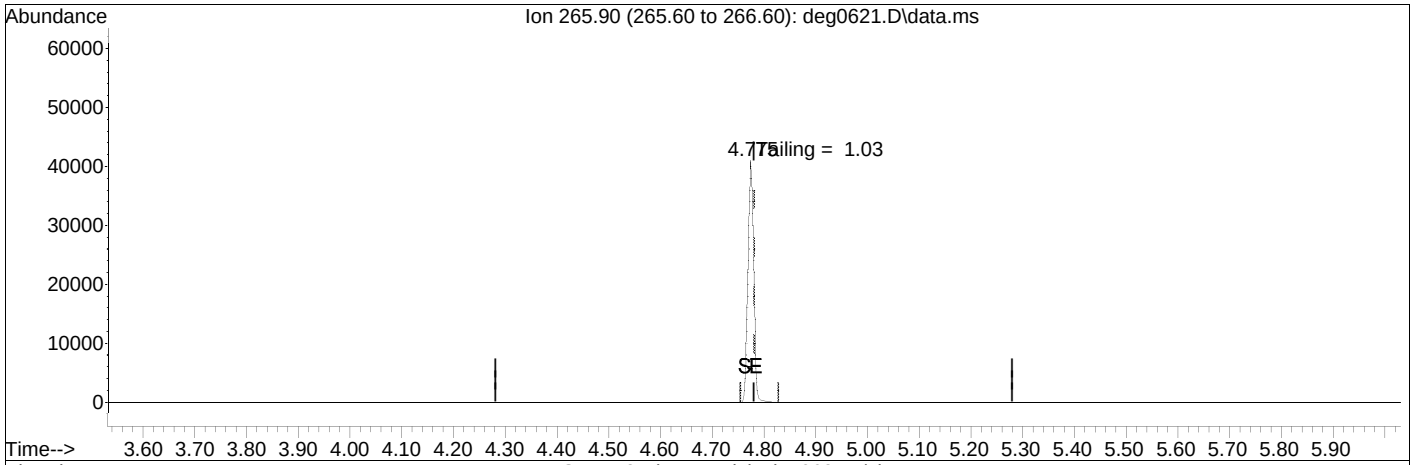
response 173007

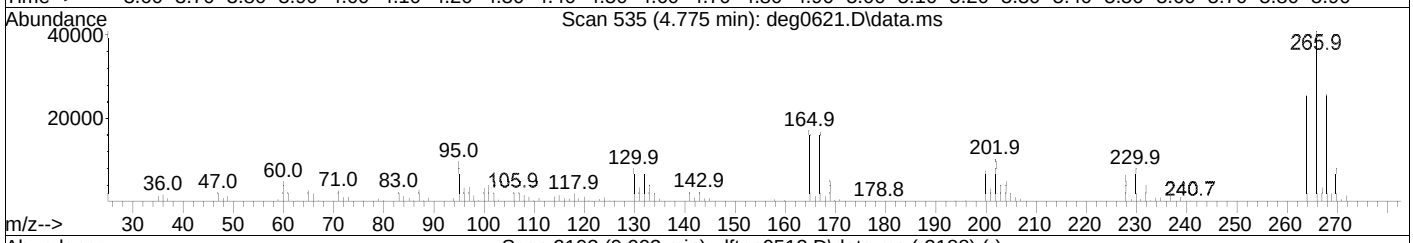
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

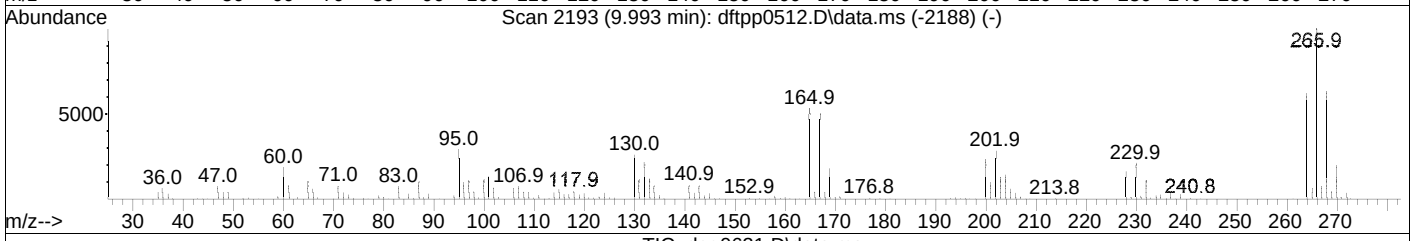
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240621RVT\
Data File : deg0621.D
Acq On : 21 Jun 2024 08:41 am
Operator : SV120:rp
Sample : WG1937540-5,32,, dftpp SV120 lot#10844
Misc : WG1937540,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 21 08:57:00 2024
Quant Method : I:\8270SIM\sv120\240621RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0621.D\data.ms

(1) pentachlorophenol (T)

4.775min (-0.006) 14.37

response 30179

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-1.D
Acq On : 20 Jun 2024 01:52 pm
Operator : SV125:jjw
Sample : WG1936734-1,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 14:52:40 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	360707	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 76.18%			
9) Naphthalene-d8	2.769	136	1364733	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 74.96%			
18) Acenaphthene-d10	3.746	164	758031	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 73.05%			
23) Phenanthrene-d10	4.584	188	1560210	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 73.82%			
32) Chrysene-d12	6.104	240	1400778	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 87.62%			
37) Perylene-d12	7.205	264	1464377	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 93.19%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.520	112	43317	406.039	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 8.12%#			
4) Phenol-d6	1.924	99	65877	533.376	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 10.67%#			
8) Nitrobenzene-d5	2.386	82	84176	841.335	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 33.65%			
14) 2-Fluorobiphenyl	3.370	172	190893	609.151	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 24.37%#			
22) 2,4,6-Tribromophenol	4.192	330	28319	669.718	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 13.39%#			
31) 4-Terphenyl-d14	5.494	244	226946	711.859	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 28.47%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-1.D
Acq On : 20 Jun 2024 01:52 pm
Operator : SV125:jjw
Sample : WG1936734-1,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 14:52:40 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	8.319	276	2042M1	4.850	ng/ml	
42) Dibenzo[a,h]anthracene	8.358	278	1858M1	4.760	ng/ml	
43) Benzo[g,h,i]perylene	8.632	276	1594M1	3.762	ng/ml	

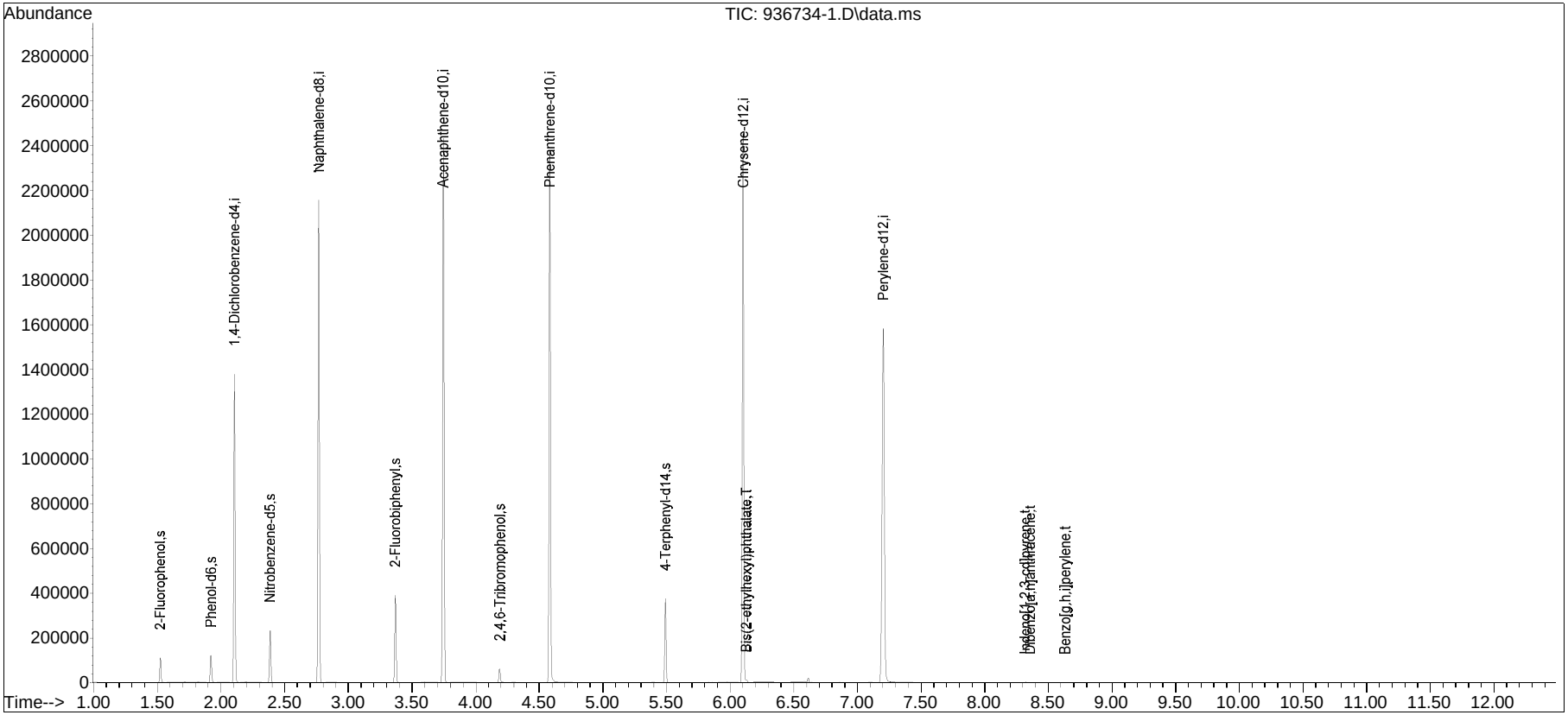
(#) = qualifier out of range (m) = manual integration (+) = signals summed

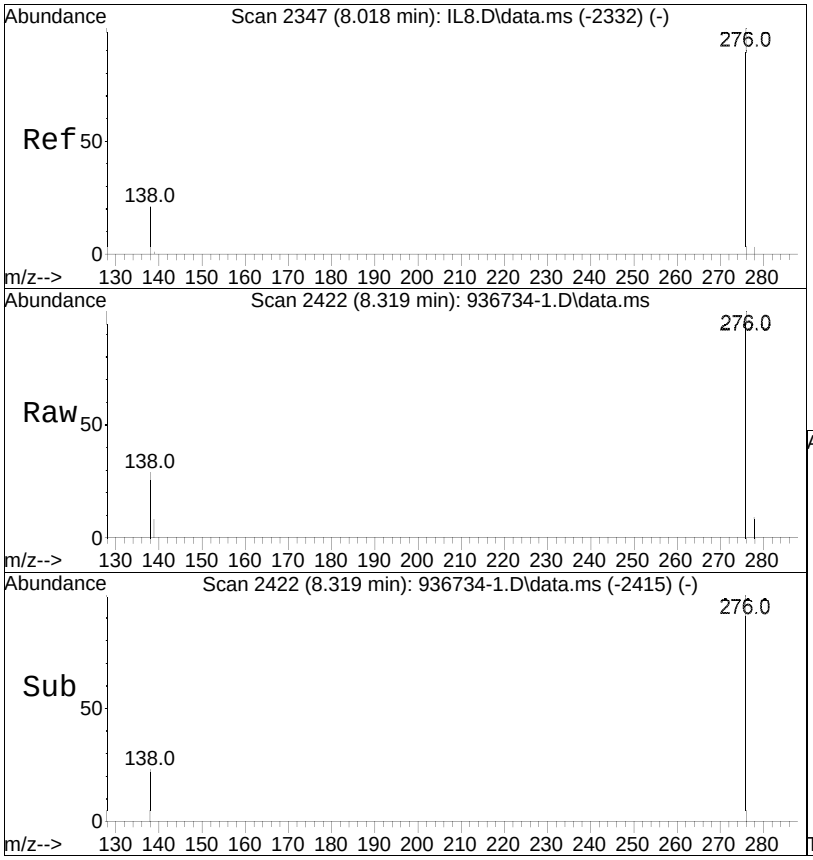
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-1.D
Acq On : 20 Jun 2024 01:52 pm
Operator : SV125:jjw
Sample : WG1936734-1,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 14:52:40 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

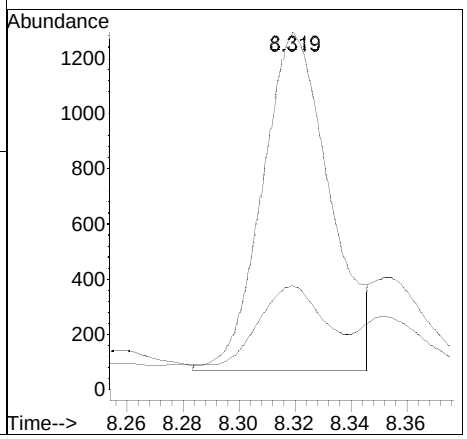


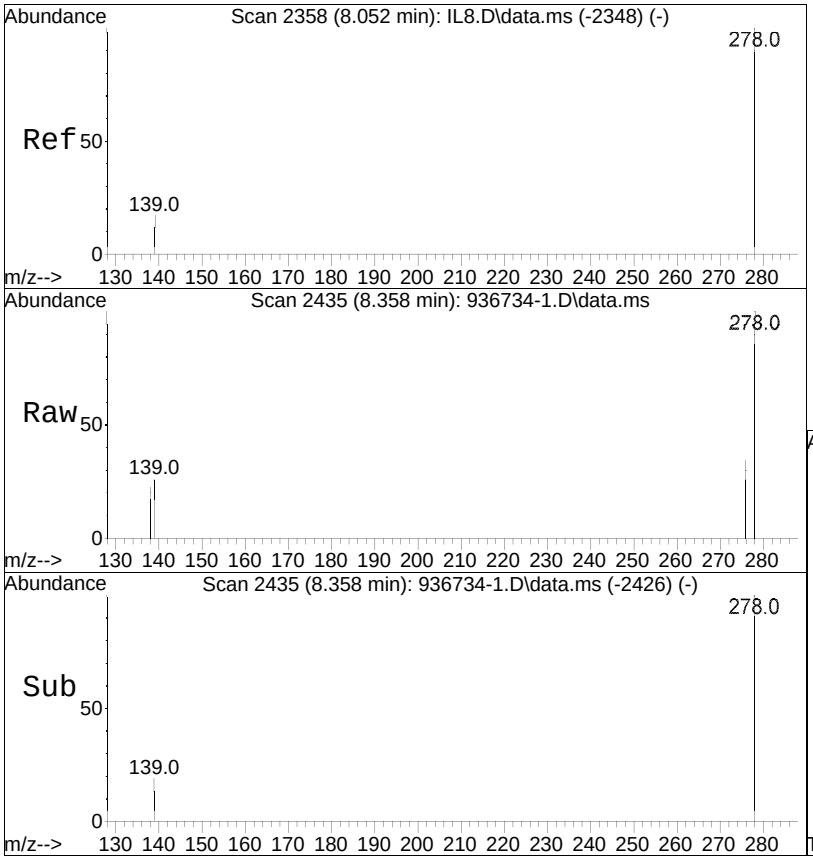


#41
Indeno[1,2,3-cd]pyrene
Concen: 4.85 ng/ml M1
RT: 8.319 min Scan# 2422
Delta R.T. -0.058 min
Lab File: 936734-1.D
Acq: 20 Jun 2024 01:52 pm

Tgt Ion:276 Resp: 2042

Ion	Ratio	Lower	Upper
276	100		
138	22.0	16.2	24.4

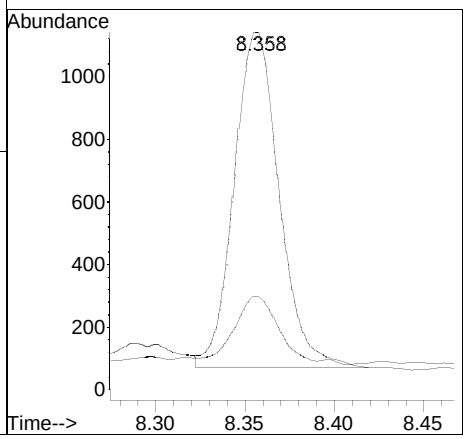


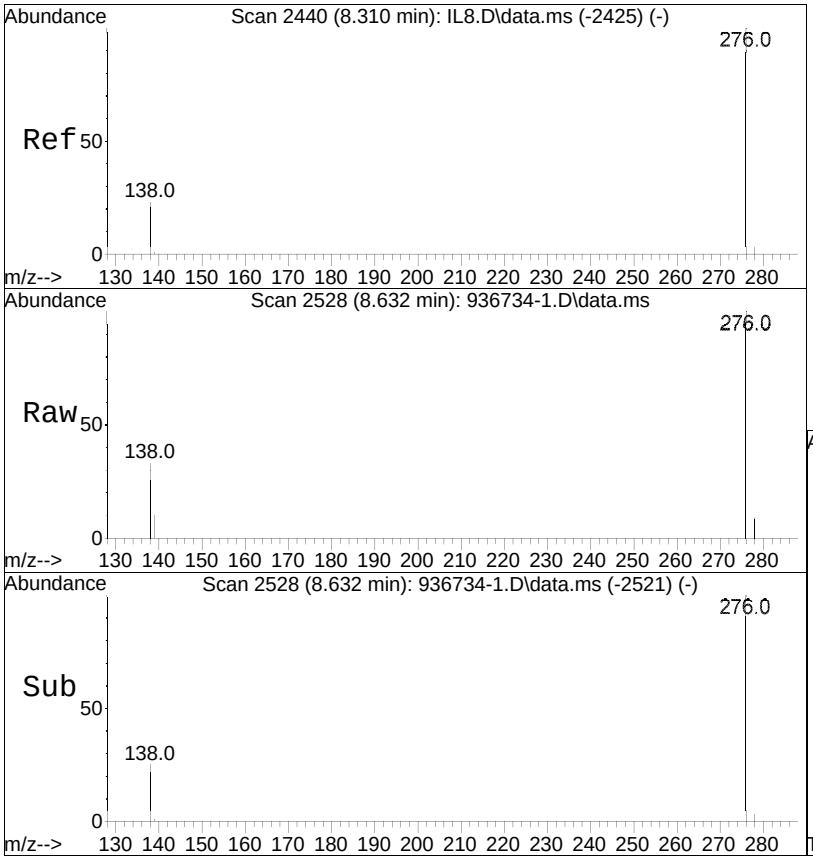


#42
Dibenzo[a,h]anthracene
Concen: 4.76 ng/ml M1
RT: 8.358 min Scan# 2435
Delta R.T. -0.052 min
Lab File: 936734-1.D
Acq: 20 Jun 2024 01:52 pm

Tgt Ion:278 Resp: 1858

Ion	Ratio	Lower	Upper
278	100		
139	18.1	14.5	21.7

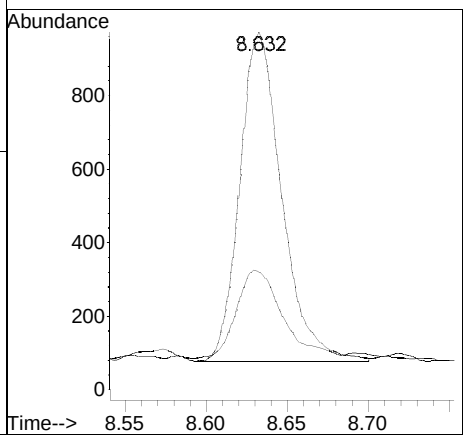




#43
Benzo[g,h,i]perylene
Concen: 3.76 ng/ml M1
RT: 8.632 min Scan# 2528
Delta R.T. -0.058 min
Lab File: 936734-1.D
Acq: 20 Jun 2024 01:52 pm

Tgt Ion:276 Resp: 1594

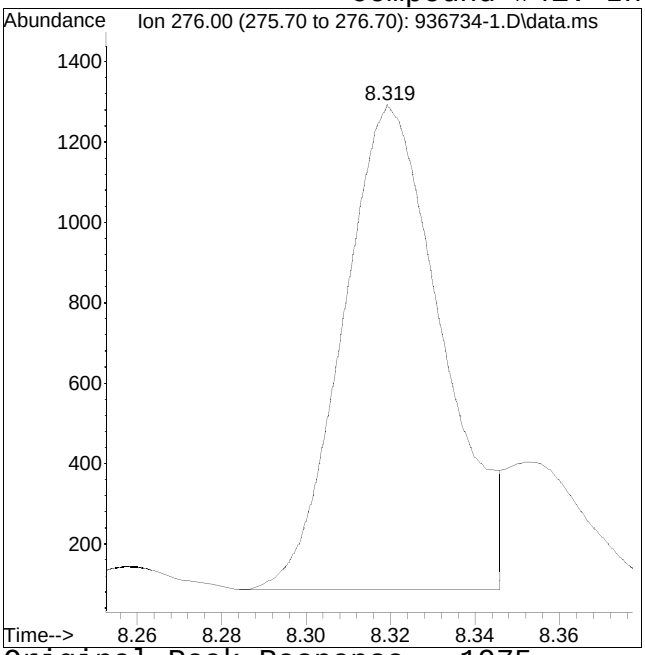
Ion	Ratio	Lower	Upper
276	100		
138	29.3	18.5	27.7#



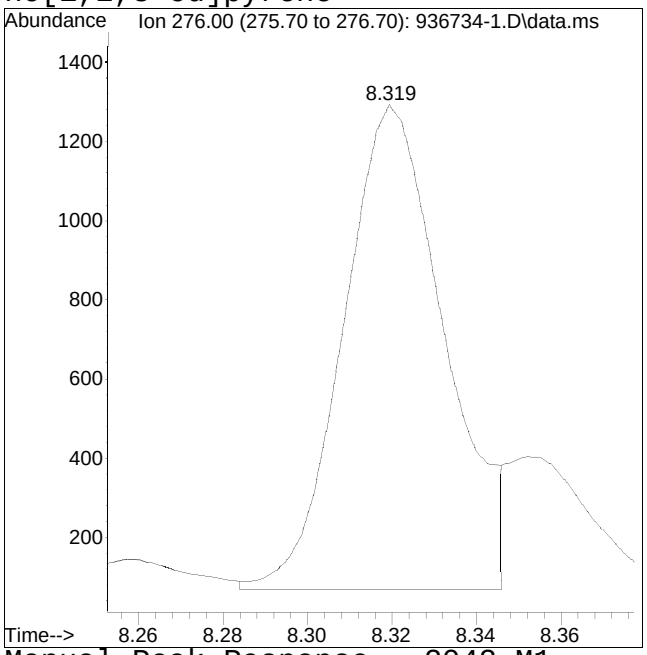
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936734-1.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 1:52 pm Instrument : SV125
Sample : WG1936734-1,32,,jjw Quant Date : 6/20/2024 2:06 pm

Compound #41: Indeno[1,2,3-cd]pyrene



Original Peak Response = 1975



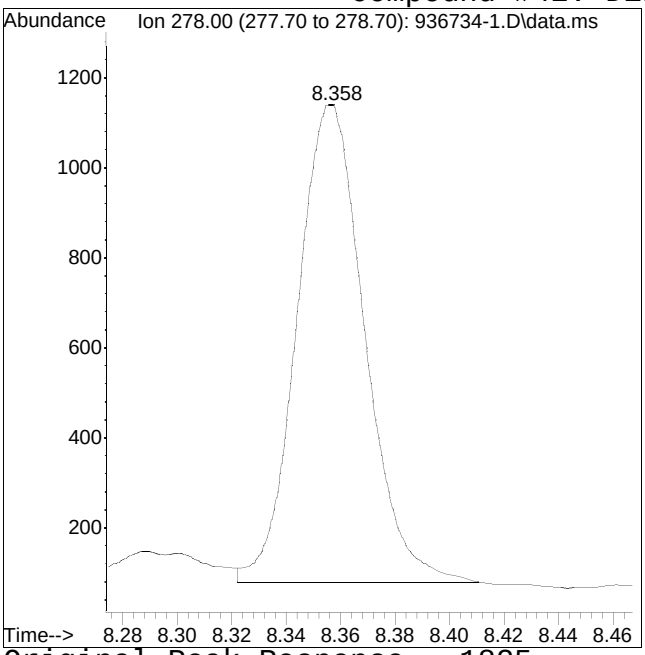
Manual Peak Response = 2042 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

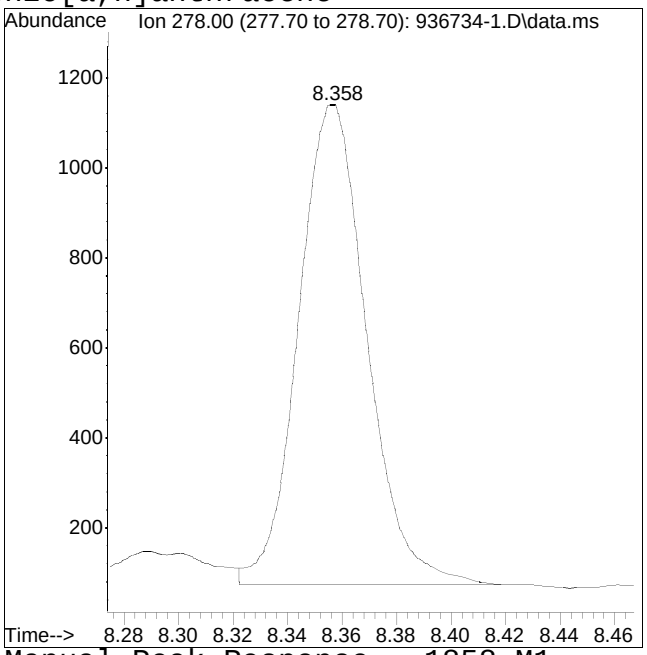
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936734-1.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 1:52 pm Instrument : SV125
Sample : WG1936734-1,32,,jjw Quant Date : 6/20/2024 2:06 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 1825



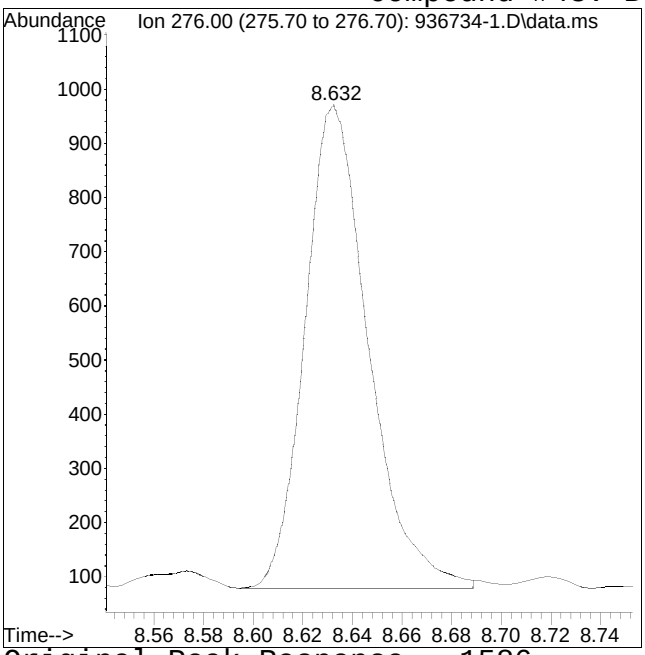
Manual Peak Response = 1858 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

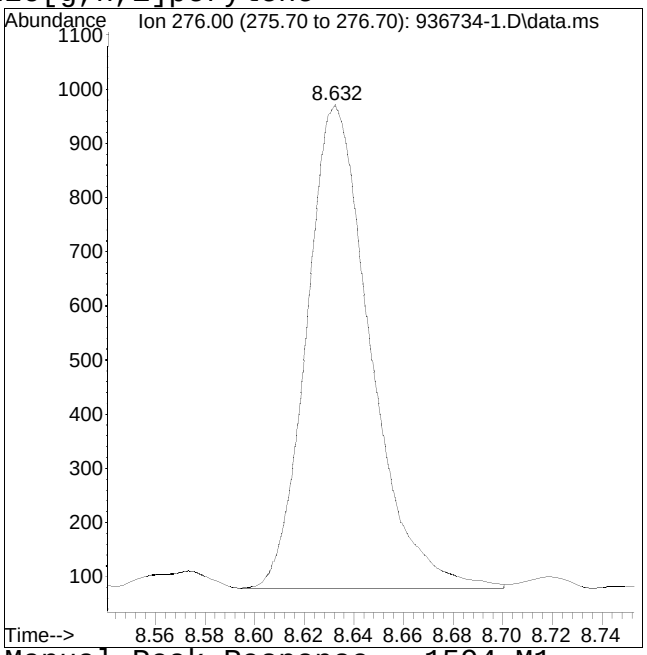
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936734-1.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 1:52 pm Instrument : SV125
Sample : WG1936734-1,32,,jjw Quant Date : 6/20/2024 2:06 pm

Compound #43: Benzo[g,h,i]perylene



Original Peak Response = 1586



Manual Peak Response = 1594 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-1.D
Acq On : 20 Jun 2024 09:26 pm
Operator : SV125:jjw
Sample : WG1936909-1,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jun 21 09:09:22 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	432647	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 91.37%			
9) Naphthalene-d8	2.769	136	1635133	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 89.81%			
18) Acenaphthene-d10	3.746	164	909132	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 87.61%			
23) Phenanthrene-d10	4.583	188	1779551	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 84.19%			
32) Chrysene-d12	6.093	240	1502759M1	4000.000	ng/ml	-0.06
Standard Area 1 = 1598607			Recovery = 94.00%			
37) Perylene-d12	7.195	264	1537081	4000.000	ng/ml	-0.07
Standard Area 1 = 1571336			Recovery = 97.82%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.523	112	118256	924.173	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 18.48%			
4) Phenol-d6	1.924	99	105341	711.079	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.22%#			
8) Nitrobenzene-d5	2.385	82	101985	849.841	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 33.99%			
14) 2-Fluorobiphenyl	3.370	172	239480	637.821	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 25.51%#			
22) 2,4,6-Tribromophenol	4.192	330	57522	1134.248	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.68%			
31) 4-Terphenyl-d14	5.491	244	248341	682.955	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 27.32%#			

Target Compounds				Qvalue
5) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
7) Hexachloroethane	0.000	0	N.D.	
10) Naphthalene	0.000	0	N.D. d	
11) Hexachlorobutadiene	0.000	0	N.D. d	
12) 2-Methylnaphthalene	0.000	0	N.D. d	
15) 2-Chloronaphthalene	0.000	0	N.D. d	
17) Acenaphthylene	0.000	0	N.D. d	
19) Acenaphthene	0.000	0	N.D. d	
21) Fluorene	0.000	0	N.D. d	
25) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-1.D
Acq On : 20 Jun 2024 09:26 pm
Operator : SV125:jjw
Sample : WG1936909-1,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jun 21 09:09:22 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

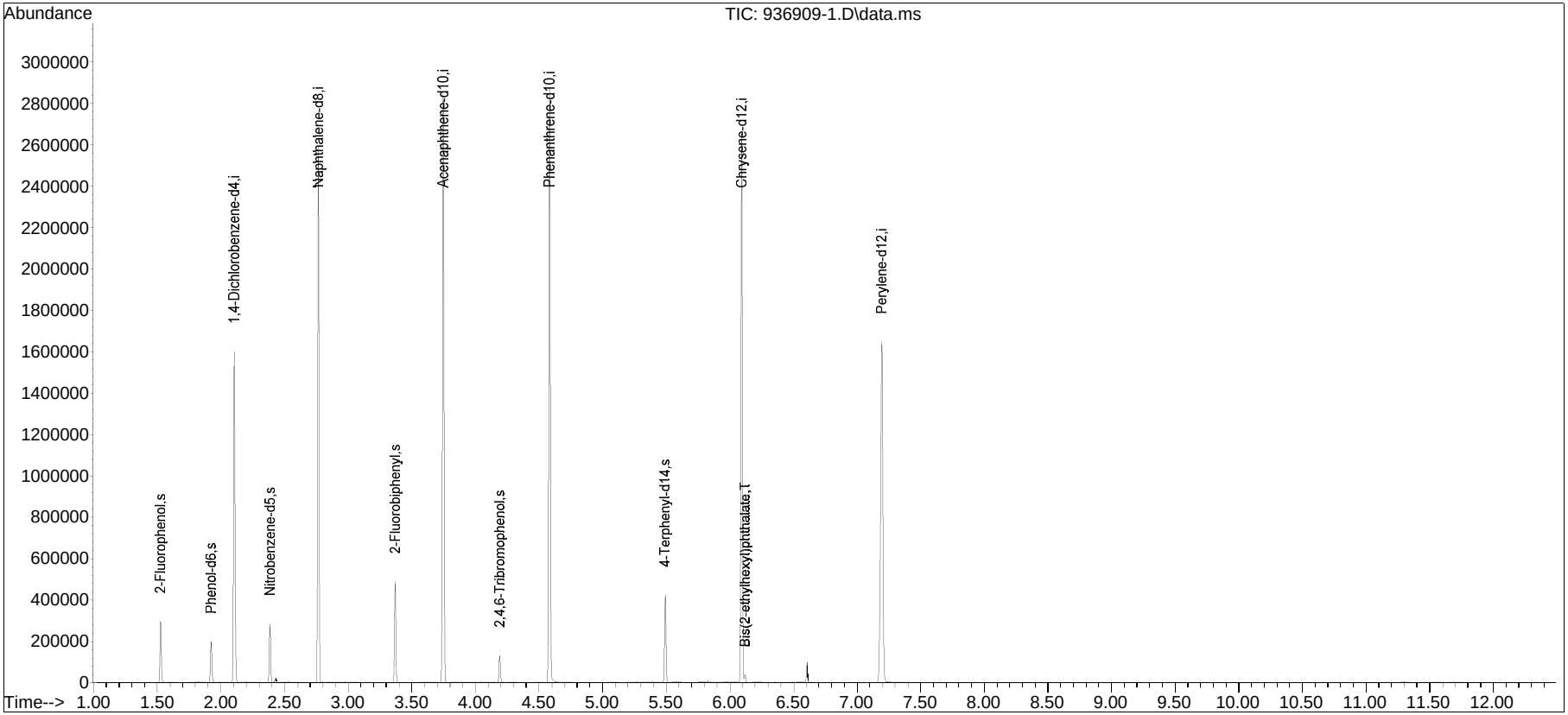
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-1.D
Acq On : 20 Jun 2024 09:26 pm
Operator : SV125:jjw
Sample : WG1936909-1,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jun 21 09:09:22 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

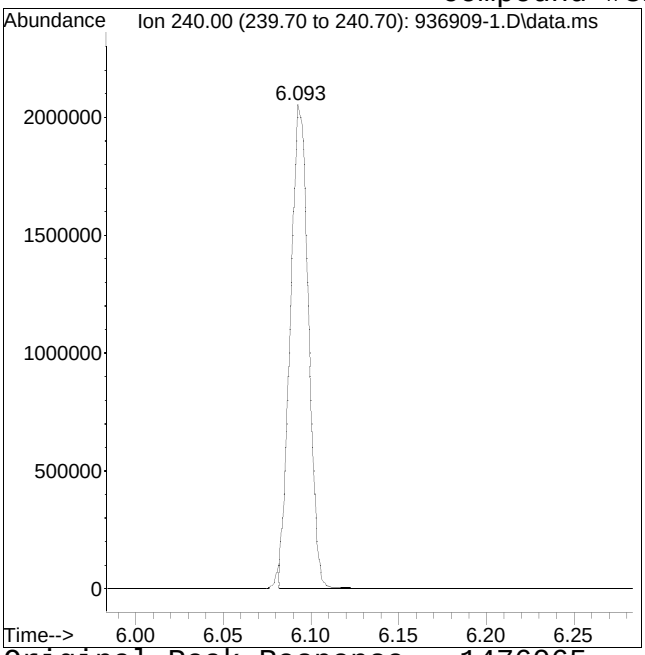
Sub List : DEFAULT - All compounds listedT\ccv0620.D•



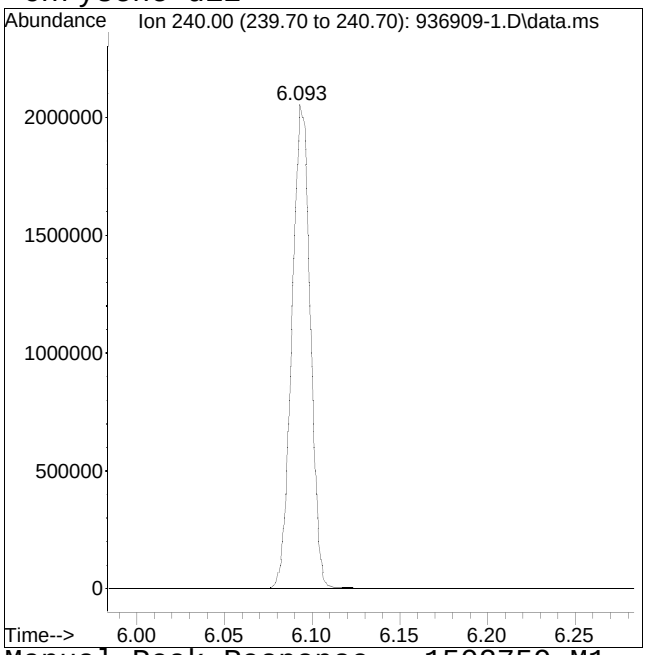
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-1.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 9:26 pm Instrument : SV125
Sample : WG1936909-1,32,,rp Quant Date : 6/20/2024 9:40 pm

Compound #32: Chrysene-d12



Original Peak Response = 1476065



Manual Peak Response = 1502759 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-1.D
Acq On : 21 Jun 2024 01:11 pm
Operator : SV125:rp
Sample : WG1937577-1,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 14:10:03 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.103	152	423231	4000.000	ng/ml	0.01
Standard Area 1 = 338769			Recovery = 124.93%			
9) Naphthalene-d8	2.768	136	1686781	4000.000	ng/ml	0.00
Standard Area 1 = 1307715			Recovery = 128.99%			
18) Acenaphthene-d10	3.746	164	1001084	4000.000	ng/ml	0.00
Standard Area 1 = 748769			Recovery = 133.70%			
23) Phenanthrene-d10	4.583	188	2124482	4000.000	ng/ml	0.00
Standard Area 1 = 1544907			Recovery = 137.52%			
32) Chrysene-d12	6.099	240	1701030M3	4000.000	ng/ml	-0.08
Standard Area 1 = 1266561			Recovery = 134.30%			
37) Perylene-d12	7.198	264	1548818M2	4000.000	ng/ml	-0.09
Standard Area 1 = 1416293			Recovery = 109.36%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.520	112	116719	932.455	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 18.65%			
4) Phenol-d6	1.921	99	108144	746.241	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.92%#			
8) Nitrobenzene-d5	2.385	82	107078	912.133	ng/ml	0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 36.49%			
14) 2-Fluorobiphenyl	3.370	172	265254	684.835	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 27.39%#			
22) 2,4,6-Tribromophenol	4.192	330	73927M6	1323.834	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 26.48%			
31) 4-Terphenyl-d14	5.491	244	321521	740.646	ng/ml	-0.03
Spiked Amount 2500.000	Range 30 - 130		Recovery = 29.63%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
13) 1-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-1.D
Acq On : 21 Jun 2024 01:11 pm
Operator : SV125:rp
Sample : WG1937577-1,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 14:10:03 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
20) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
25) Hexachlorobenzene	4.368	284	439	2.986	ng/ml#	81
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
34) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
36) Bis(2-ethylhexyl)phtha...	6.123	149	24711M3	78.609	ng/ml	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
42) Dibenzo[a,h]anthracene	0.000		0	N.D.		
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

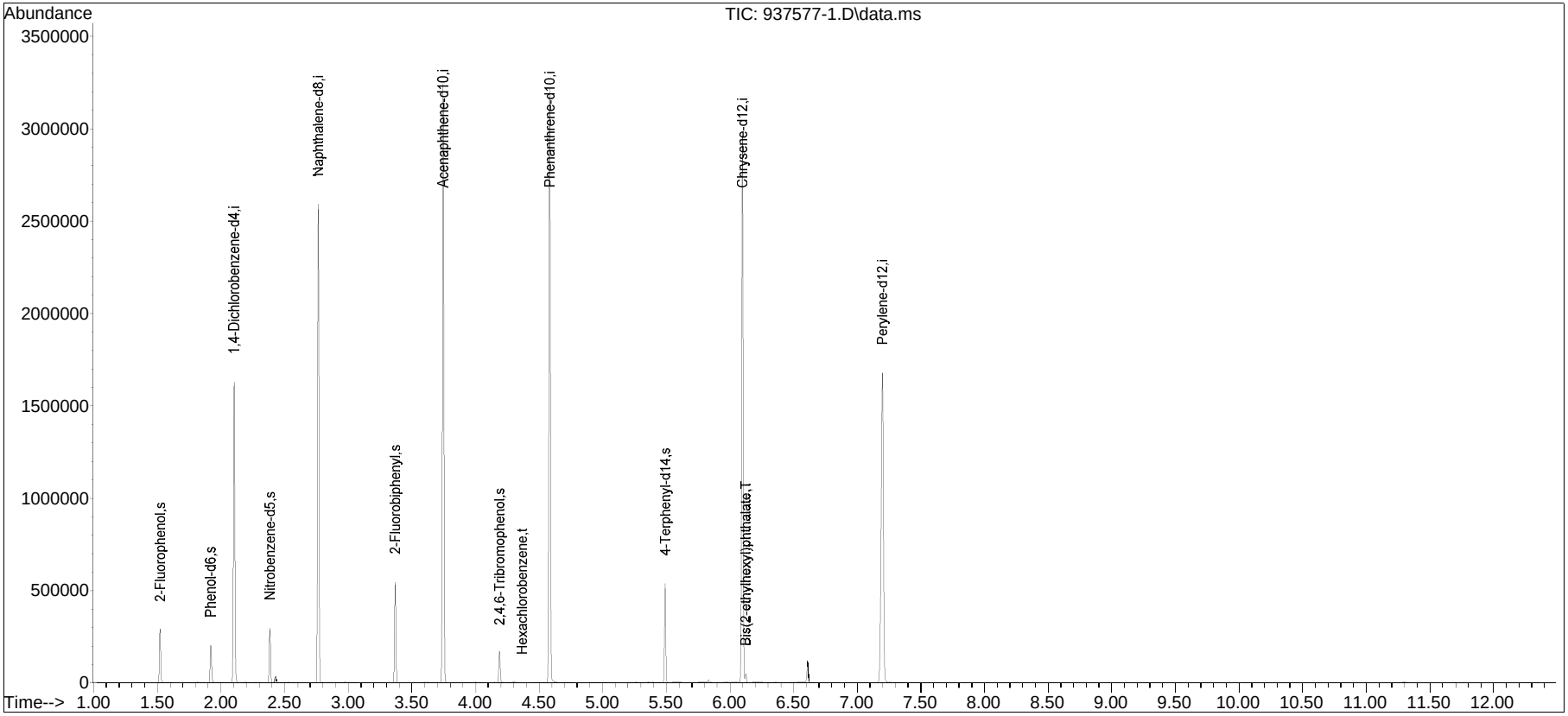
(#) = qualifier out of range (m) = manual integration (+) = signals summed

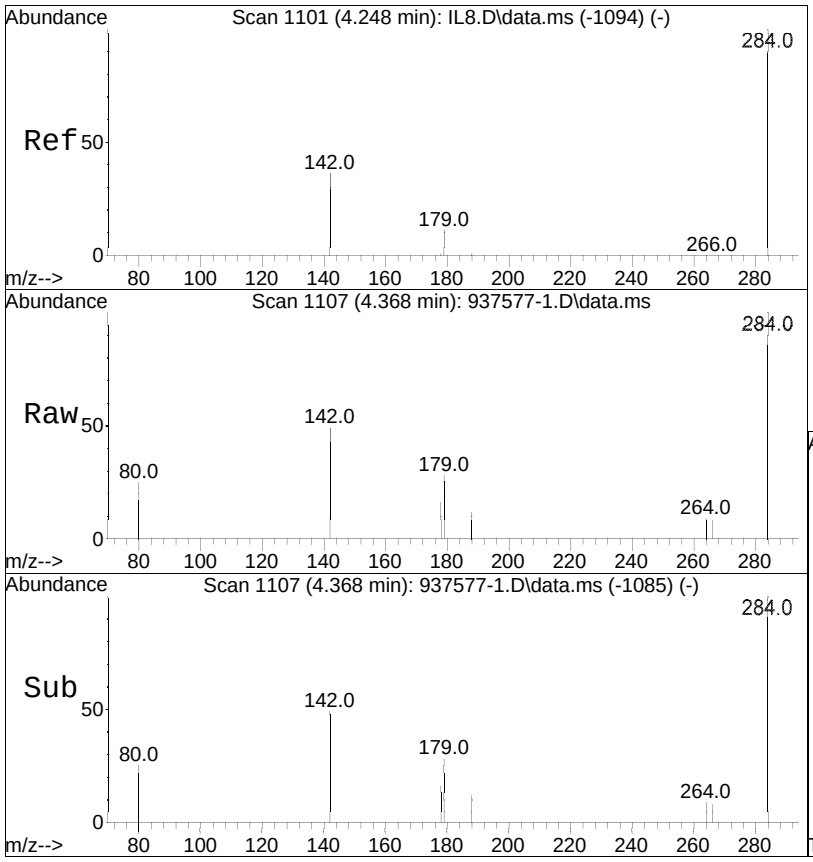
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-1.D
Acq On : 21 Jun 2024 01:11 pm
Operator : SV125:rp
Sample : WG1937577-1,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 14:10:03 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0621.D•

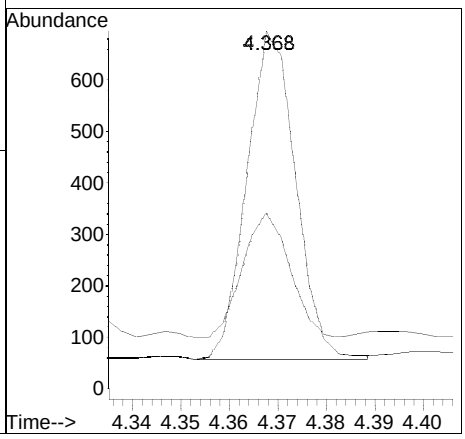


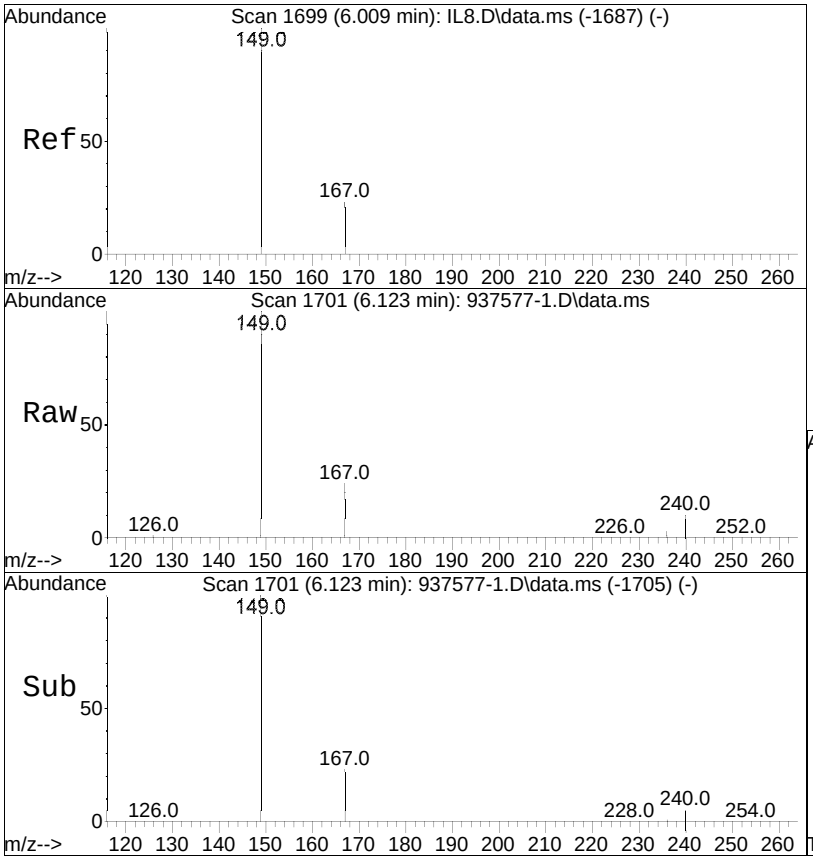


#25
Hexachlorobenzene
Concen: 2.99 ng/ml
RT: 4.368 min Scan# 1107
Delta R.T. 0.003 min
Lab File: 937577-1.D
Acq: 21 Jun 2024 01:11 pm

Tgt Ion:284 Resp: 439

Ion	Ratio	Lower	Upper
284	100		
142	46.0	28.2	42.2#

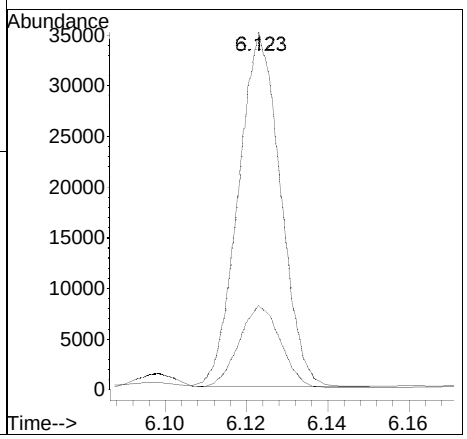




#36
Bis(2-ethylhexyl)phthalate
Concen: 78.61 ng/ml M3
RT: 6.123 min Scan# 1701
Delta R.T. -0.092 min
Lab File: 937577-1.D
Acq: 21 Jun 2024 01:11 pm

Tgt Ion:149 Resp: 24711

Ion	Ratio	Lower	Upper
149	100		
167	23.8	18.6	27.8

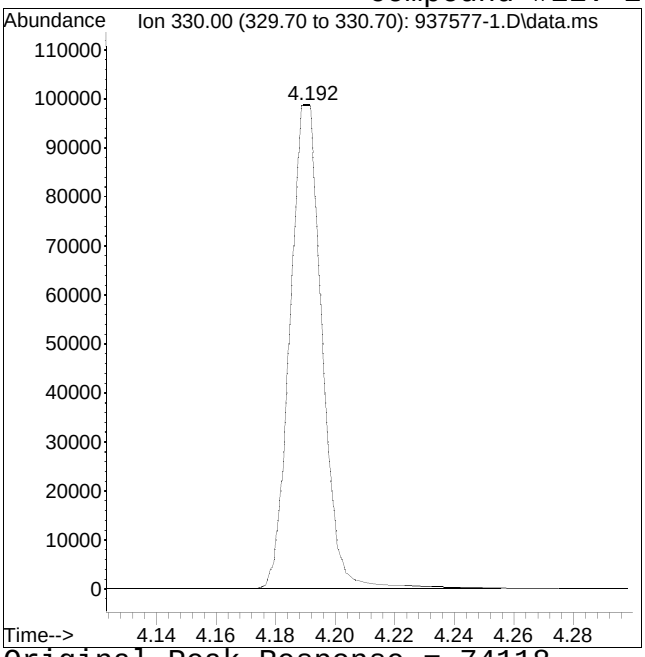


Manual Integration Report

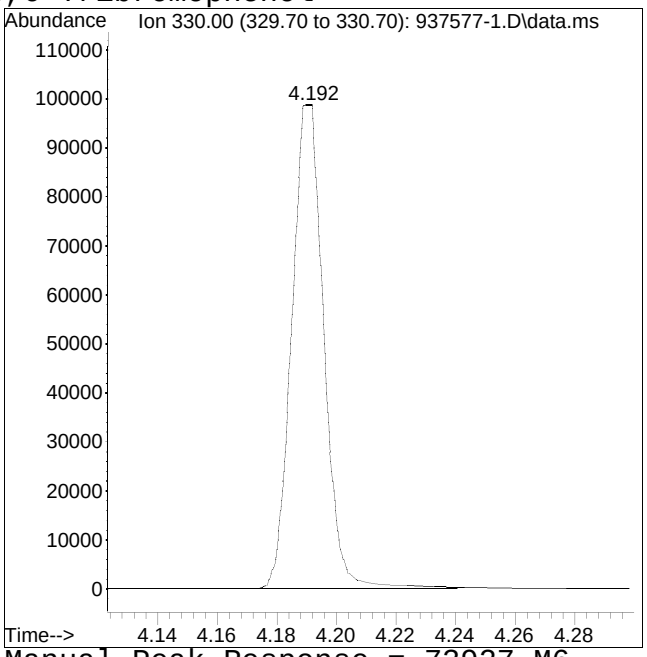
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-1.D
Date Inj'd : 6/21/2024 1:11 pm
Sample : WG1937577-1,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:25 pm

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 74118



Manual Peak Response = 73927 M6

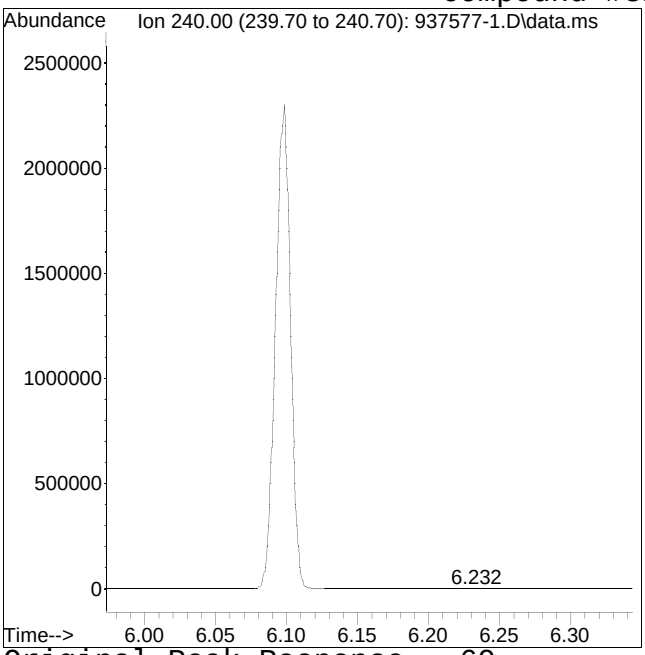
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

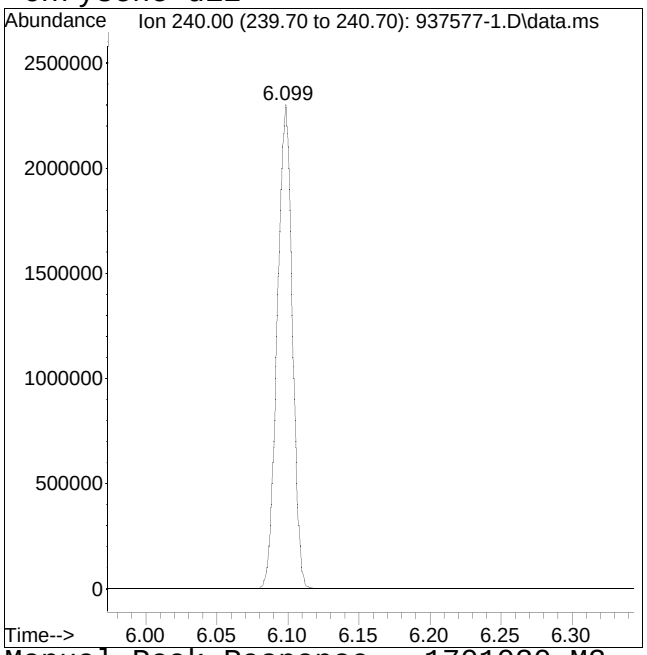
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-1.D
Date Inj'd : 6/21/2024 1:11 pm
Sample : WG1937577-1,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:25 pm

Compound #32: Chrysene-d12





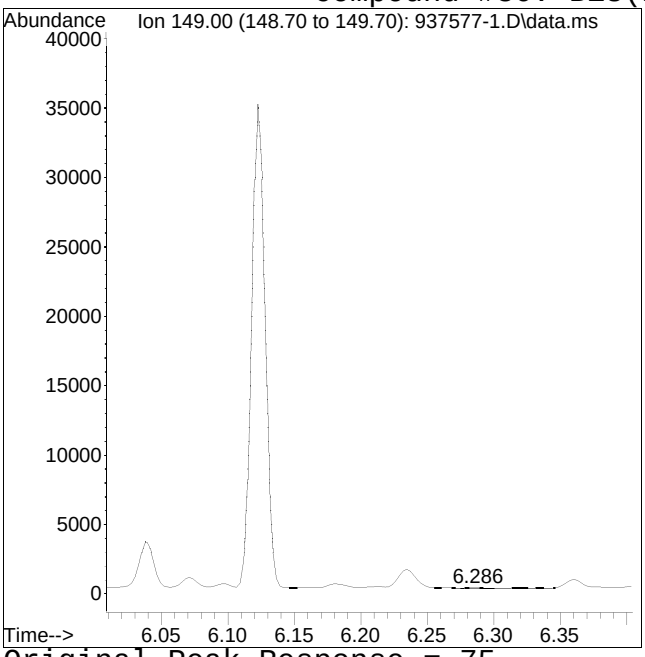
Original Peak Response = 69 Manual Peak Response = 1701030 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

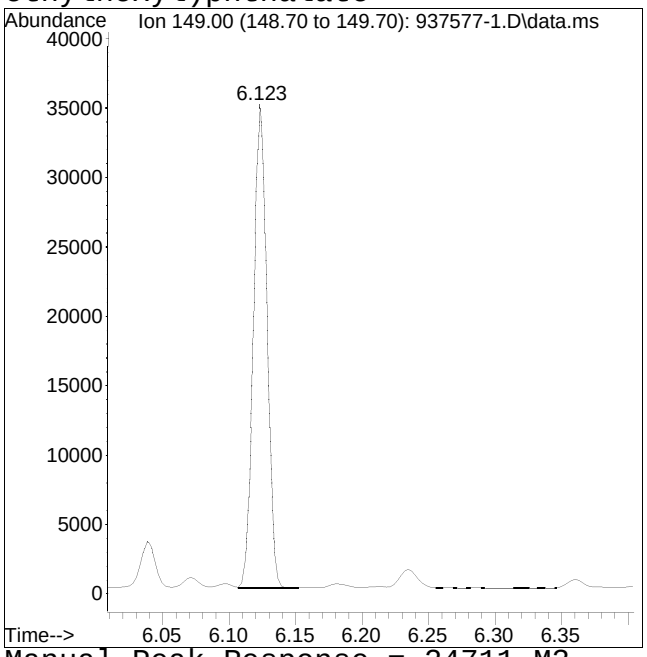
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-1.D Operator : SV125:rp
Date Inj'd : 6/21/2024 1:11 pm Instrument : SV125
Sample : WG1937577-1,32,,rp Quant Date : 6/21/2024 1:25 pm

Compound #36: Bis(2-ethylhexyl)phthalate



Original Peak Response = 75



Manual Peak Response = 24711 M3

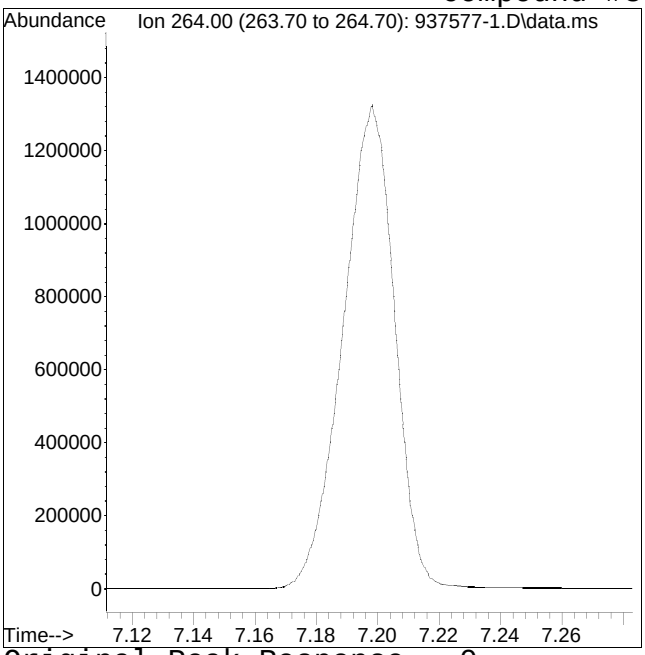
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

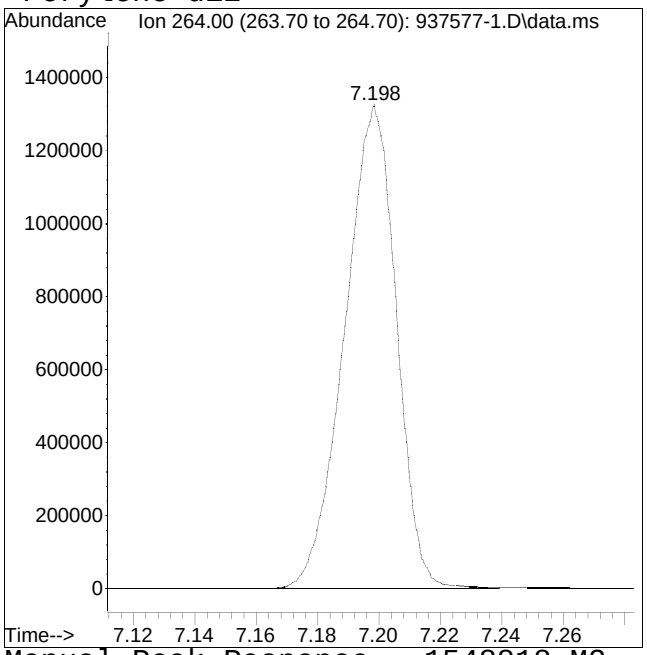
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-1.D
Date Inj'd : 6/21/2024 1:11 pm
Sample : WG1937577-1,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:25 pm

Compound #37: Perylene-d12



Original Peak Response = 0



Manual Peak Response = 1548818 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-2.D
Acq On : 20 Jun 2024 01:19 pm
Operator : SV125:jjw
Sample : WG1936734-2,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 14:53:34 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	332895	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 70.31%			
9) Naphthalene-d8	2.769	136	1333148	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 73.23%			
18) Acenaphthene-d10	3.746	164	731544	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 70.49%			
23) Phenanthrene-d10	4.583	188	1552732	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 73.46%			
32) Chrysene-d12	6.104	240	1351993	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 84.57%			
37) Perylene-d12	7.208	264	1490207	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 94.84%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.523	112	87090	884.555	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 17.69%			
4) Phenol-d6	1.924	99	93842	823.274	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 16.47%			
8) Nitrobenzene-d5	2.386	82	84446	914.549	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 36.58%			
14) 2-Fluorobiphenyl	3.370	172	204134	666.837	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 26.67%#			
22) 2,4,6-Tribromophenol	4.192	330	55926	1370.485	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 27.41%			
31) 4-Terphenyl-d14	5.494	244	249625	786.767	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 31.47%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	1.970	93	153533	1511.477	ng/ml	95
7) Hexachloroethane	2.363	117	48785	1080.512	ng/ml	99
10) Naphthalene	2.778	128	432606	1162.320	ng/ml#	99
11) Hexachlorobutadiene	2.854	225	62751	884.762	ng/ml	100
12) 2-Methylnaphthalene	3.163	142	294523	1235.326	ng/ml	99
15) 2-Chloronaphthalene	3.434	162	293716	1107.593	ng/ml	90
17) Acenaphthylene	3.664	152	511124	1295.580	ng/ml	99
19) Acenaphthene	3.764	153	333533	1333.543	ng/ml	97
21) Fluorene	4.055	166	390817	1365.394	ng/ml	99
25) Hexachlorobenzene	4.371	284	122029	1135.734	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-2.D
Acq On : 20 Jun 2024 01:19 pm
Operator : SV125:jjw
Sample : WG1936734-2,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 14:53:34 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	4.483	266	46904	841.631	ng/ml	100
27) Phenanthrene	4.595	178	632325	1408.290	ng/ml	100
28) Anthracene	4.625	178	650781	1500.403	ng/ml	100
29) Fluoranthene	5.270	202	833415	1600.678	ng/ml	98
30) Pyrene	5.398	202	867273	1593.081	ng/ml	99
33) Benzo[a]anthracene	6.098	228	830219	1536.415	ng/ml	100
35) Chrysene	6.120	228	776334	1607.833	ng/ml	99
38) Benzo[b]fluoranthene	6.865	252	837210	1613.938	ng/ml	100
39) Benzo[k]fluoranthene	6.890	252	777436	1606.852	ng/ml	100
40) Benzo[a]pyrene	7.148	252	735506	1709.879	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.322	276	778361	1816.539	ng/ml	92
42) Dibenzo[a,h]anthracene	8.358	278	691167M6	1740.057	ng/ml	
43) Benzo[g,h,i]perylene	8.636	276	720836	1671.539	ng/ml	92

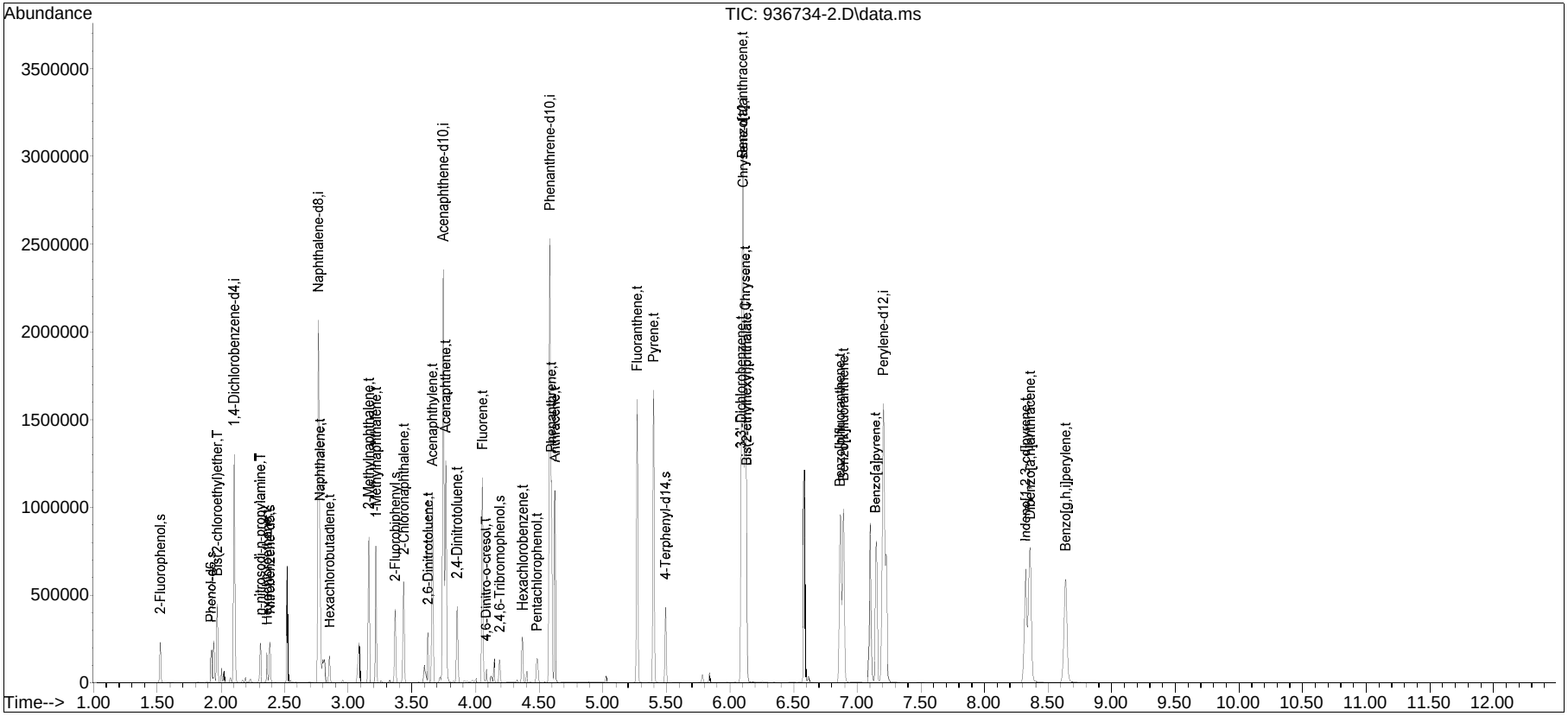
(#) = qualifier out of range (m) = manual integration (+) = signals summed

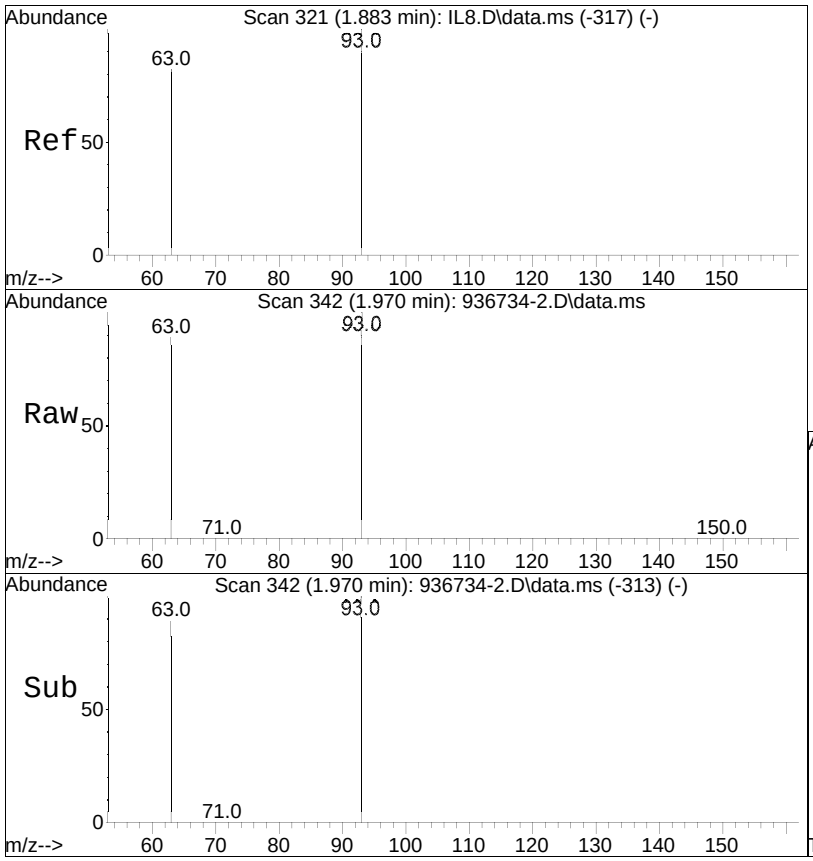
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-2.D
Acq On : 20 Jun 2024 01:19 pm
Operator : SV125:jjw
Sample : WG1936734-2,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 14:53:34 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

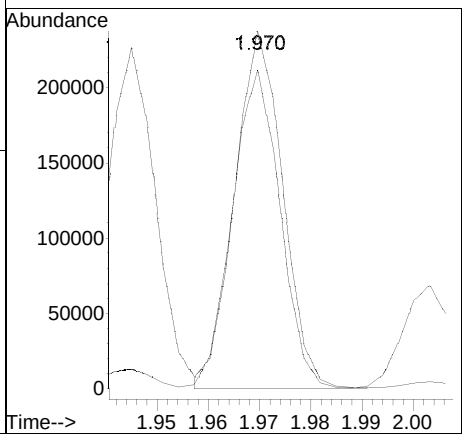


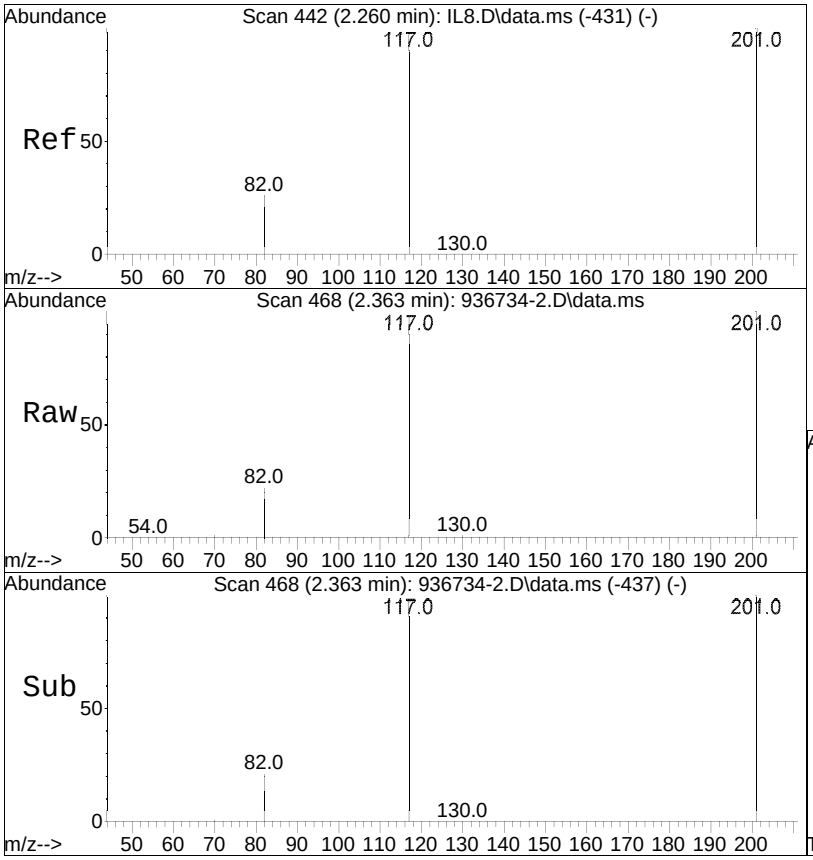


#5
Bis(2-chloroethyl)ether
Concen: 1511.48 ng/ml
RT: 1.970 min Scan# 342
Delta R.T. 0.009 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion: 93 Resp: 153533

Ion	Ratio	Lower	Upper
93	100		
63	89.1	67.7	101.5

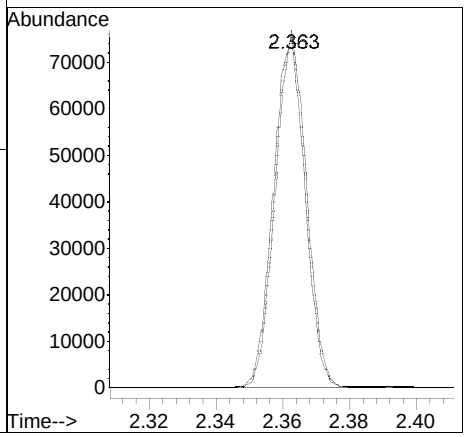


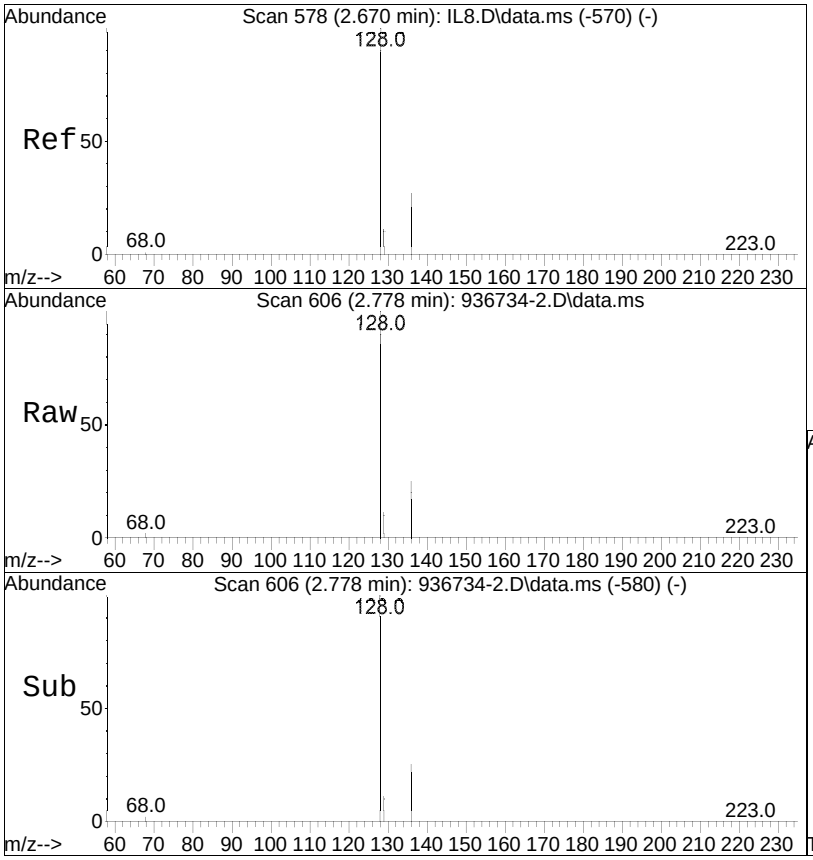


#7
Hexachloroethane
Concen: 1080.51 ng/ml
RT: 2.363 min Scan# 468
Delta R.T. 0.009 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:117 Resp: 48785

Ion	Ratio	Lower	Upper
117	100		
201	100.1	80.8	121.2

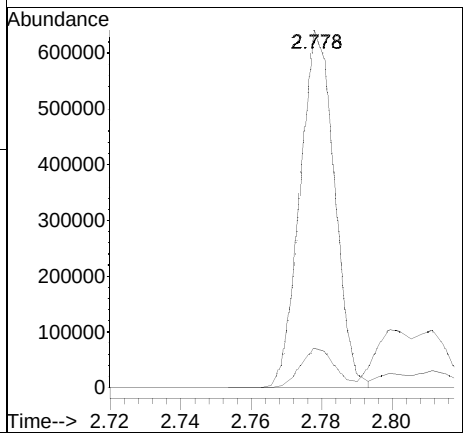


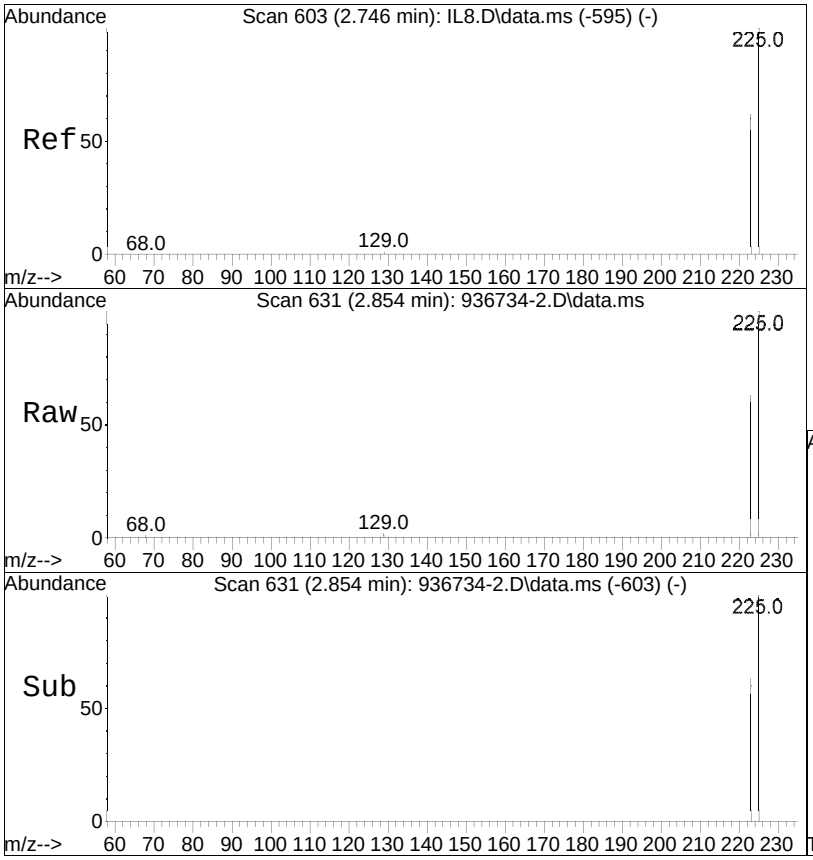


#10
Naphthalene
Concen: 1162.32 ng/ml
RT: 2.778 min Scan# 606
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:128 Resp: 432606

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	0.0	0.0	0.0

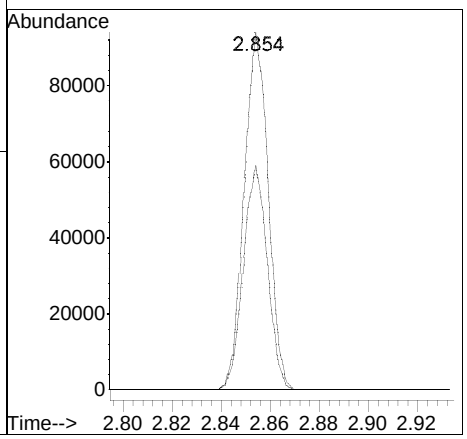


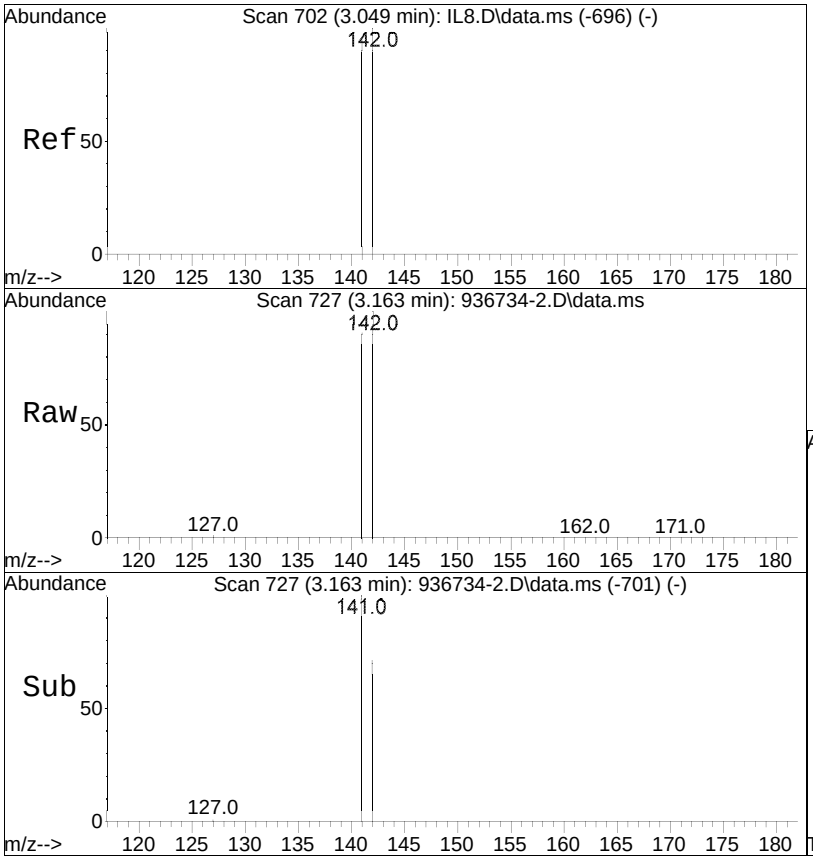


#11
Hexachlorobutadiene
Concen: 884.76 ng/ml
RT: 2.854 min Scan# 631
Delta R.T. 0.006 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:225 Resp: 62751

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4

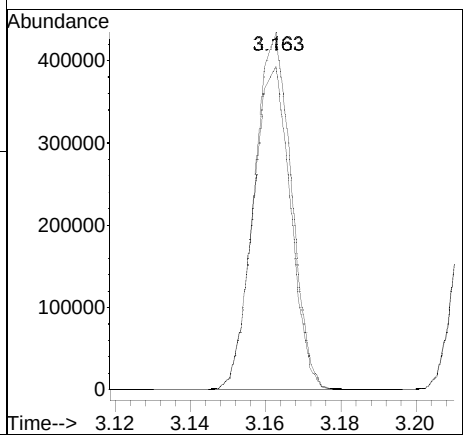


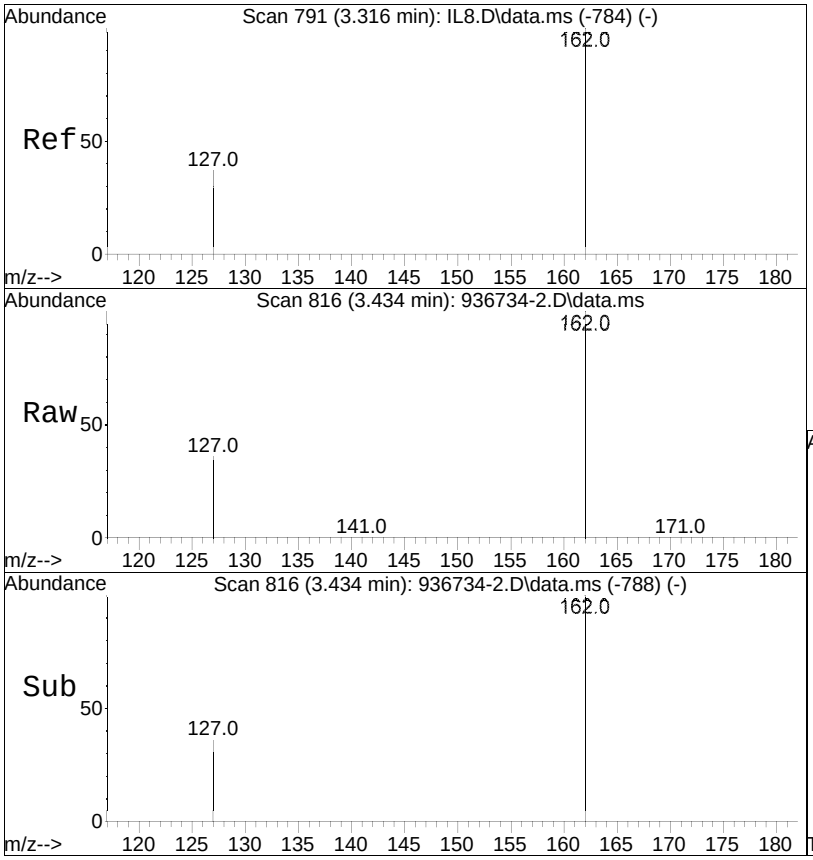


#12
2-Methylnaphthalene
Concen: 1235.33 ng/ml
RT: 3.163 min Scan# 727
Delta R.T. 0.006 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:142 Resp: 294523

Ion	Ratio	Lower	Upper
142	100		
141	91.7	74.4	111.6

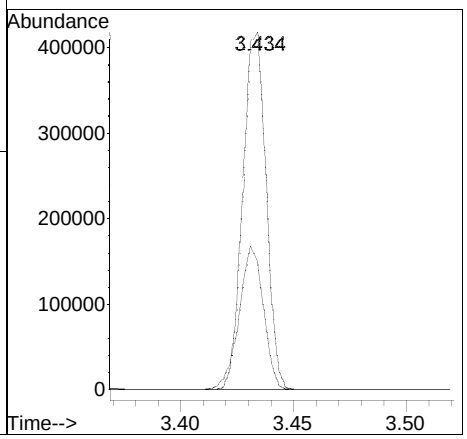


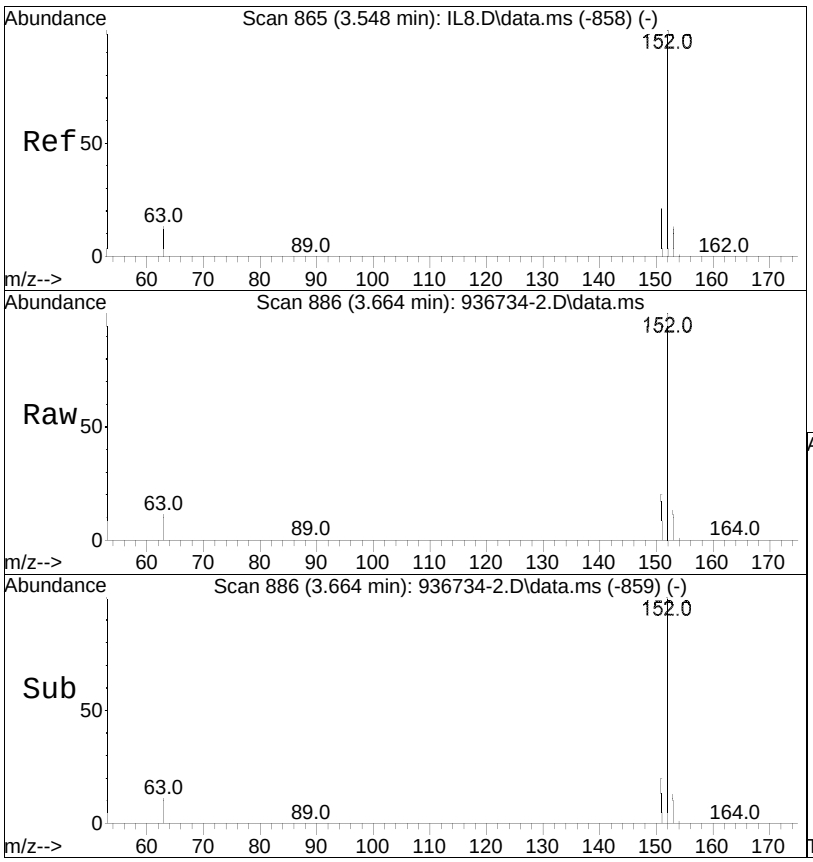


#15
2-Chloronaphthalene
Concen: 1107.59 ng/ml
RT: 3.434 min Scan# 816
Delta R.T. 0.006 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:162 Resp: 293716

Ion	Ratio	Lower	Upper
162	100		
127	42.4	29.2	43.8

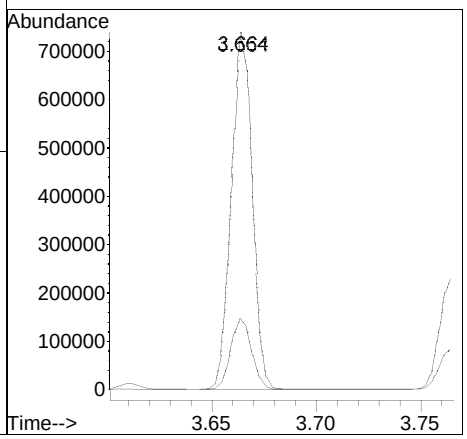


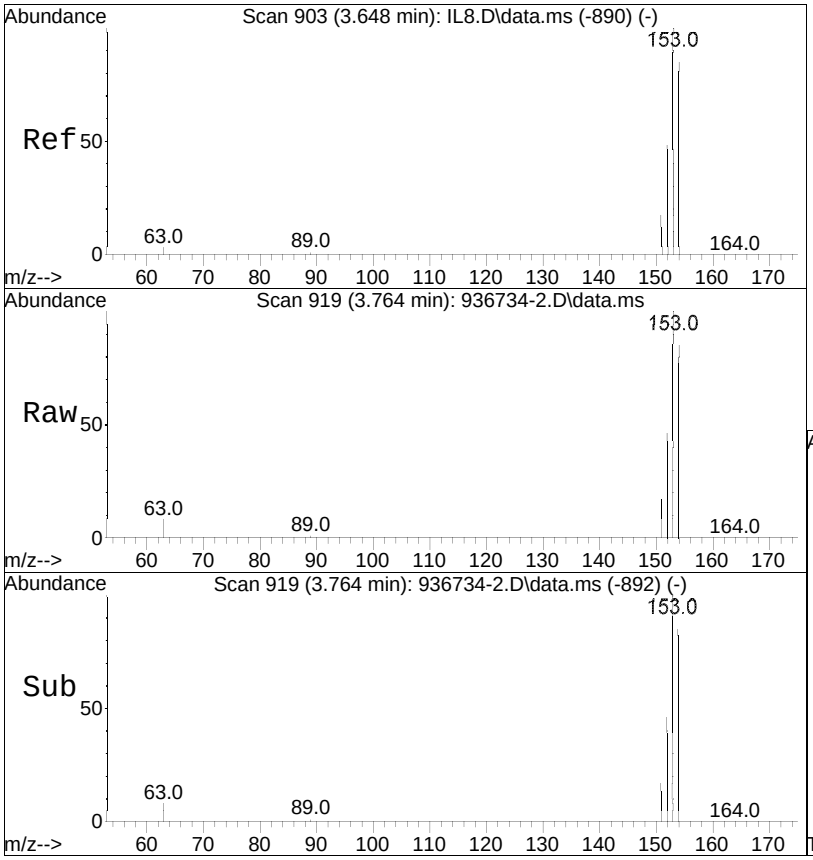


#17
Acenaphthylene
Concen: 1295.58 ng/ml
RT: 3.664 min Scan# 886
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:152 Resp: 511124

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.4	24.6

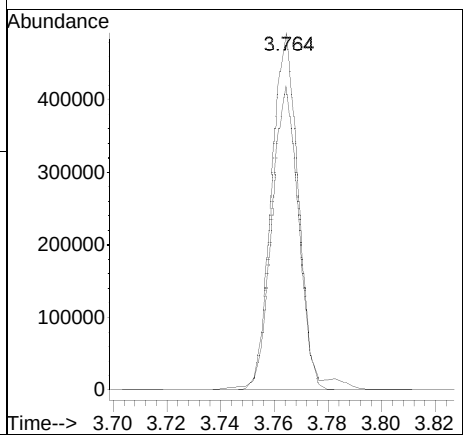


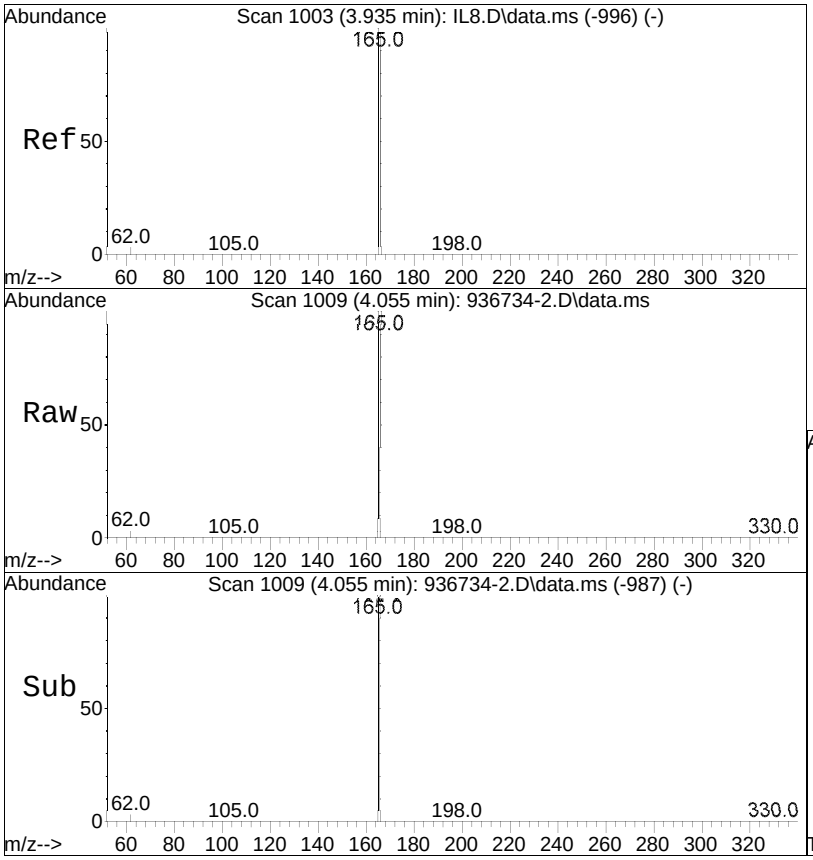


#19
Acenaphthene
Concen: 1333.54 ng/ml
RT: 3.764 min Scan# 919
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:153 Resp: 333533

Ion	Ratio	Lower	Upper
153	100		
154	88.6	68.4	102.6

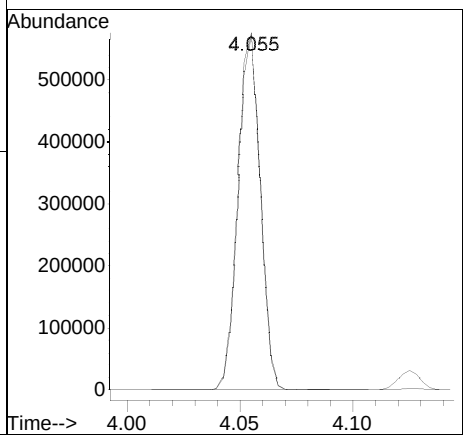


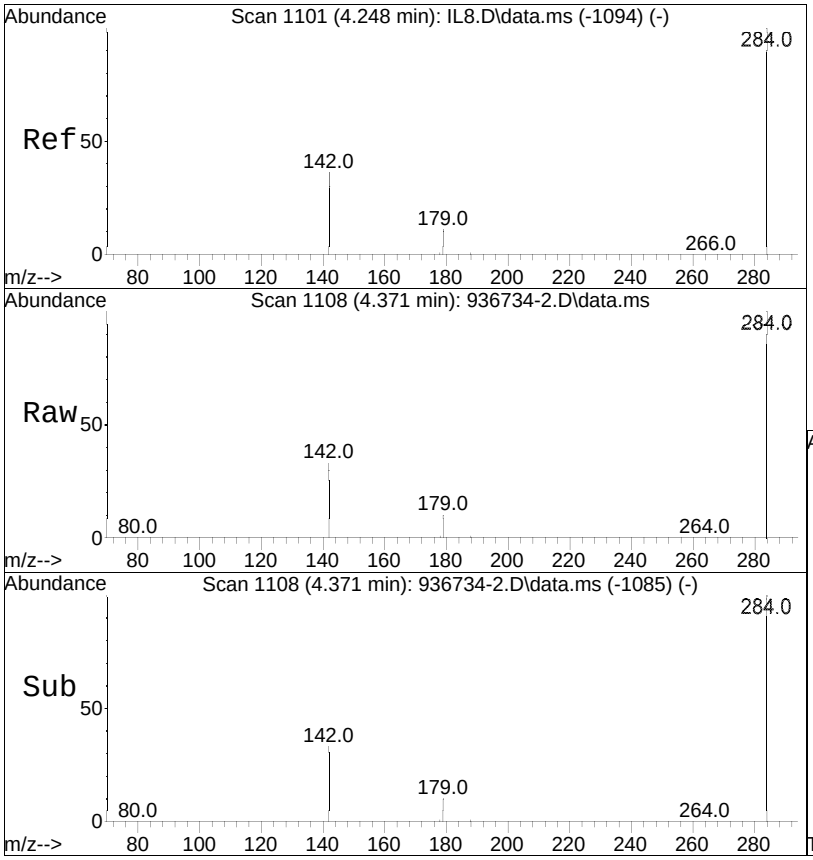


#21
Fluorene
Concen: 1365.39 ng/ml
RT: 4.055 min Scan# 1009
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:166 Resp: 390817

Ion	Ratio	Lower	Upper
166	100		
165	101.3	81.7	122.5

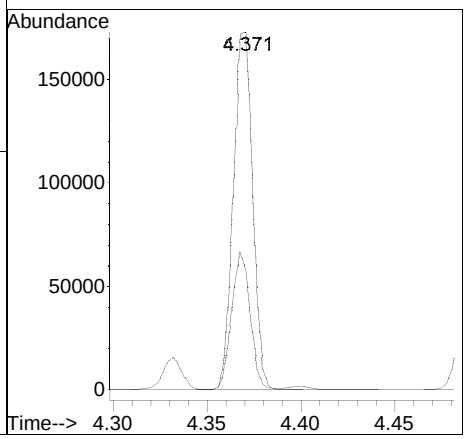


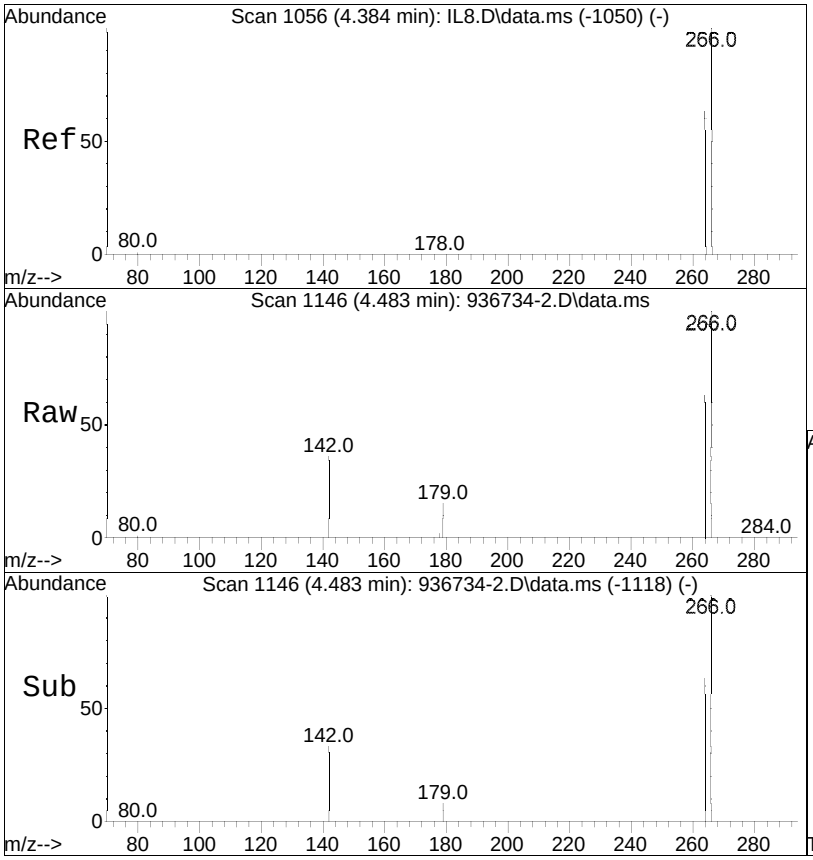


#25
Hexachlorobenzene
Concen: 1135.73 ng/ml
RT: 4.371 min Scan# 1108
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:284 Resp: 122029

Ion	Ratio	Lower	Upper
284	100		
142	37.1	28.2	42.2

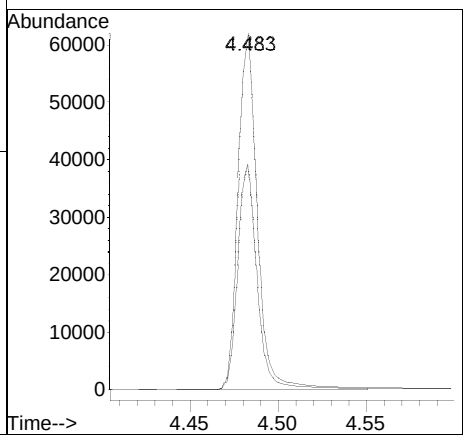


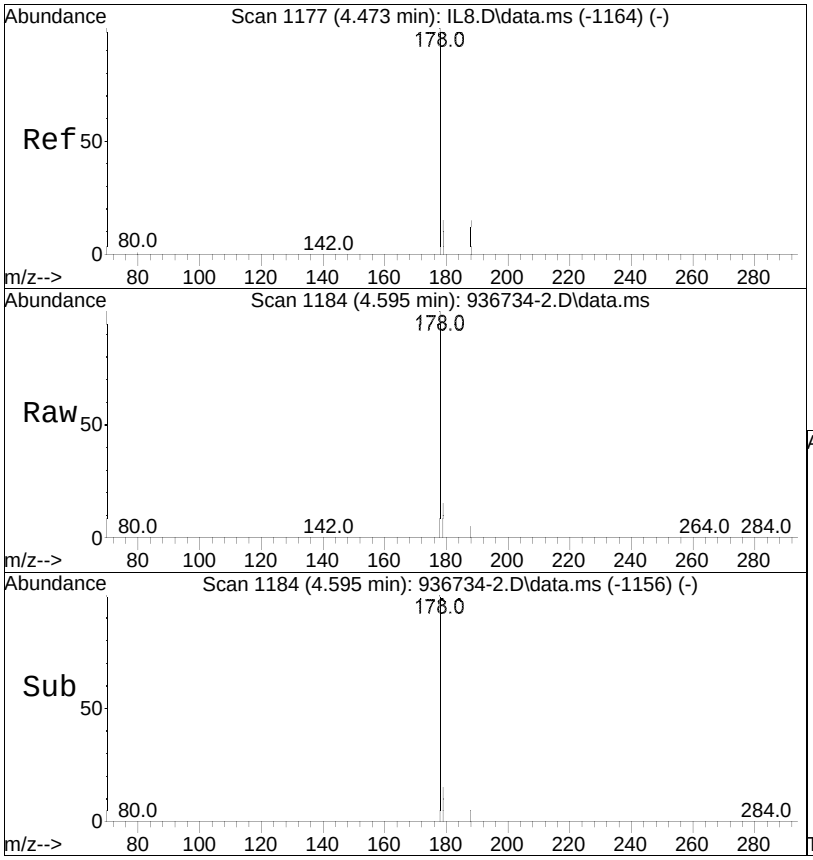


#26
Pentachlorophenol
Concen: 841.63 ng/ml
RT: 4.483 min Scan# 1146
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:266 Resp: 46904

Ion	Ratio	Lower	Upper
266	100		
264	63.7	50.6	76.0

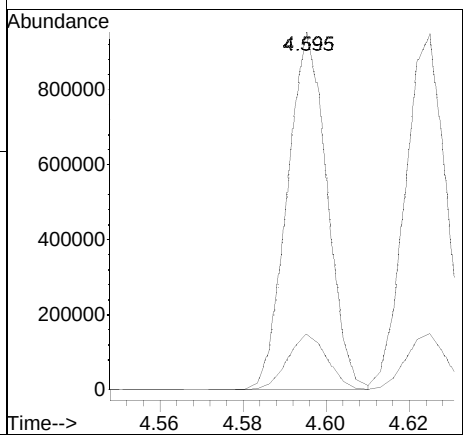


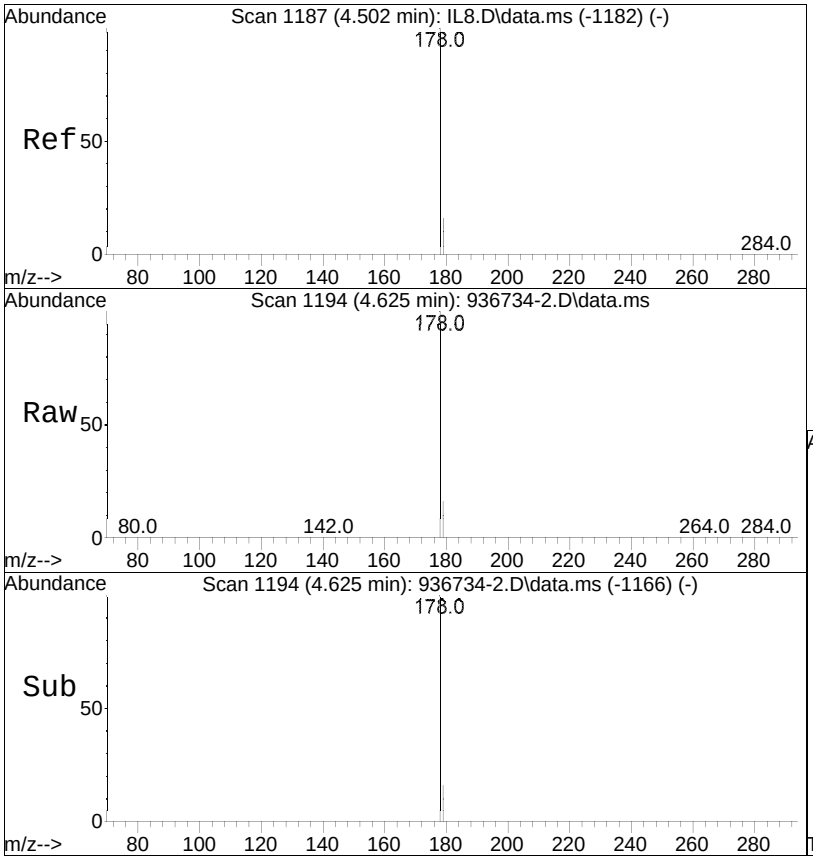


#27
Phenanthrene
Concen: 1408.29 ng/ml
RT: 4.595 min Scan# 1184
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:178 Resp: 632325

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

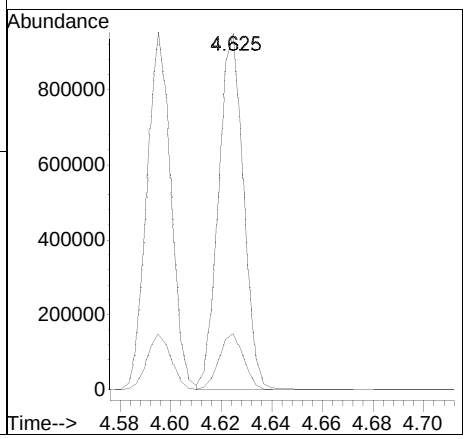


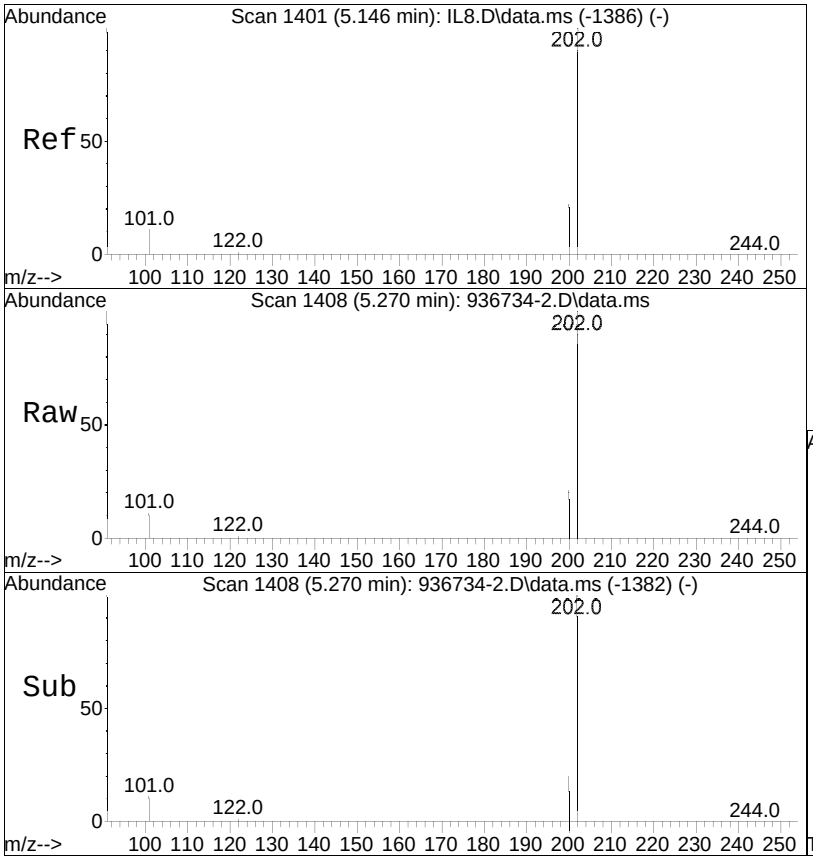


#28
Anthracene
Concen: 1500.40 ng/ml
RT: 4.625 min Scan# 1194
Delta R.T. 0.003 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:178 Resp: 650781

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

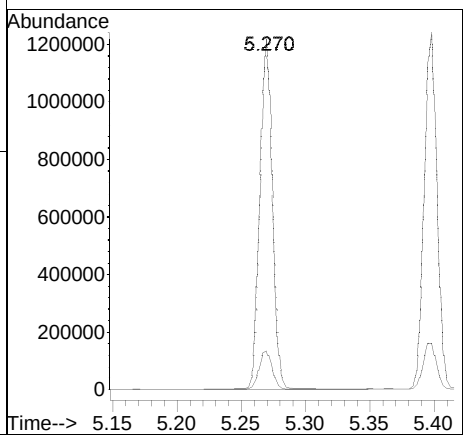


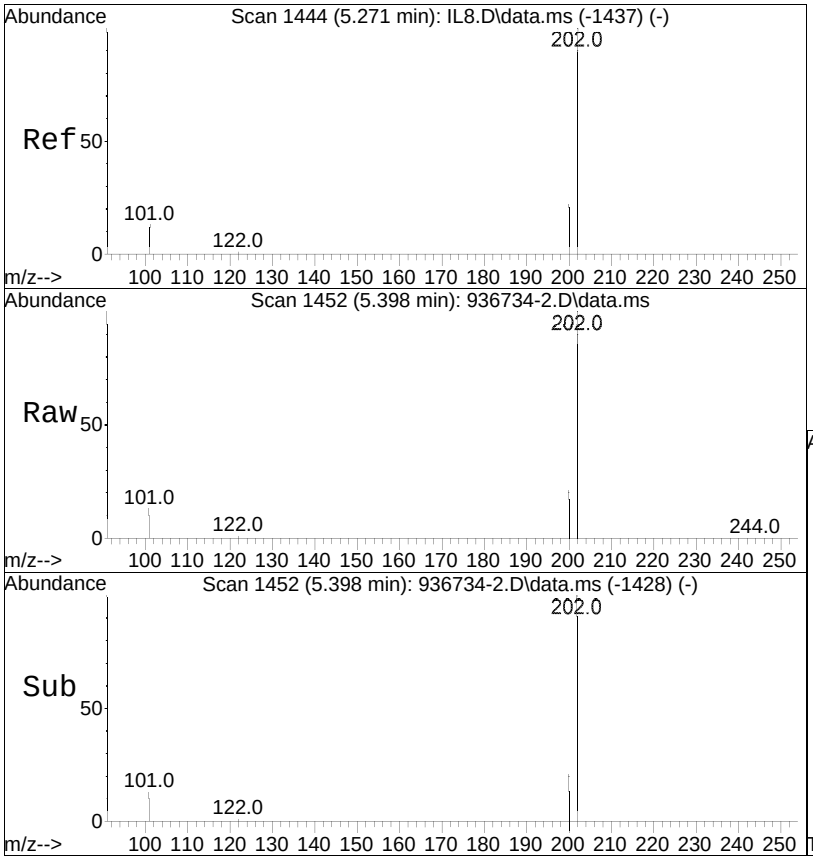


#29
Fluoranthene
Concen: 1600.68 ng/ml
RT: 5.270 min Scan# 1408
Delta R.T. -0.006 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:202 Resp: 833415

Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.7	13.1

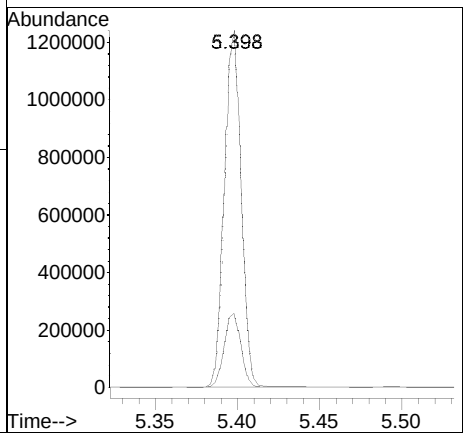


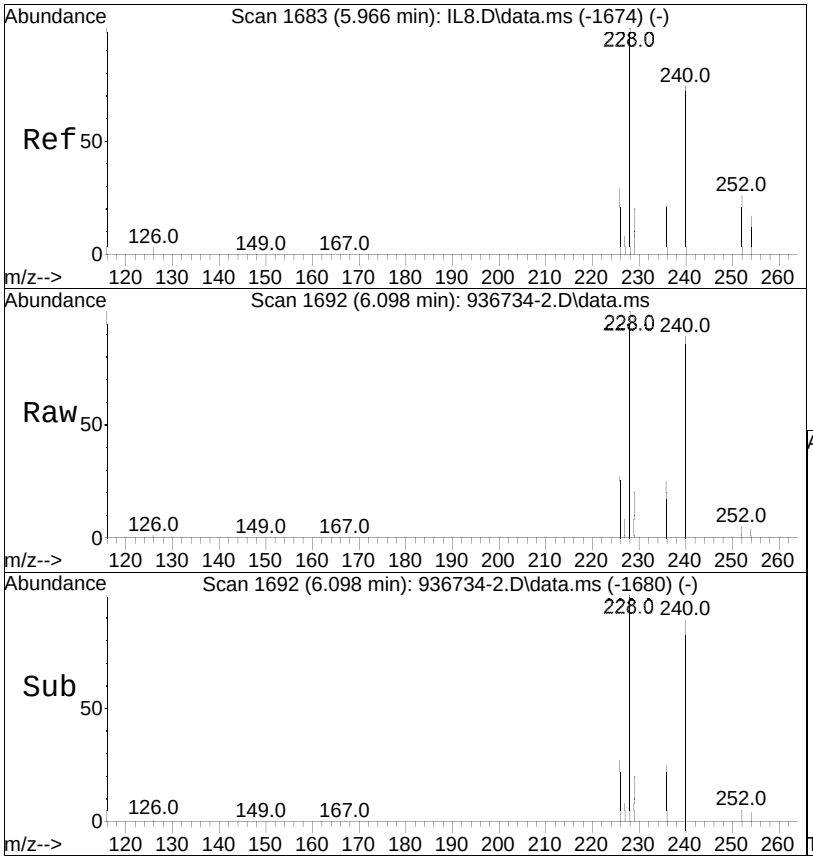


#30
Pyrene
Concen: 1593.08 ng/ml
RT: 5.398 min Scan# 1452
Delta R.T. -0.011 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:202 Resp: 867273

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

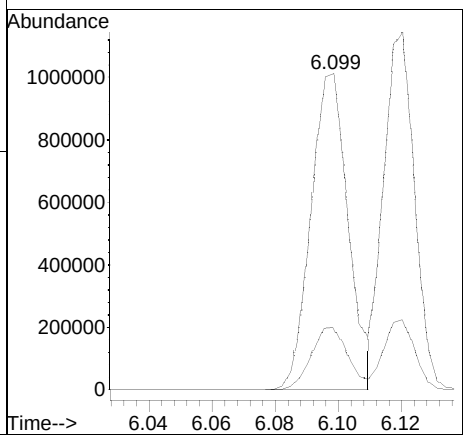


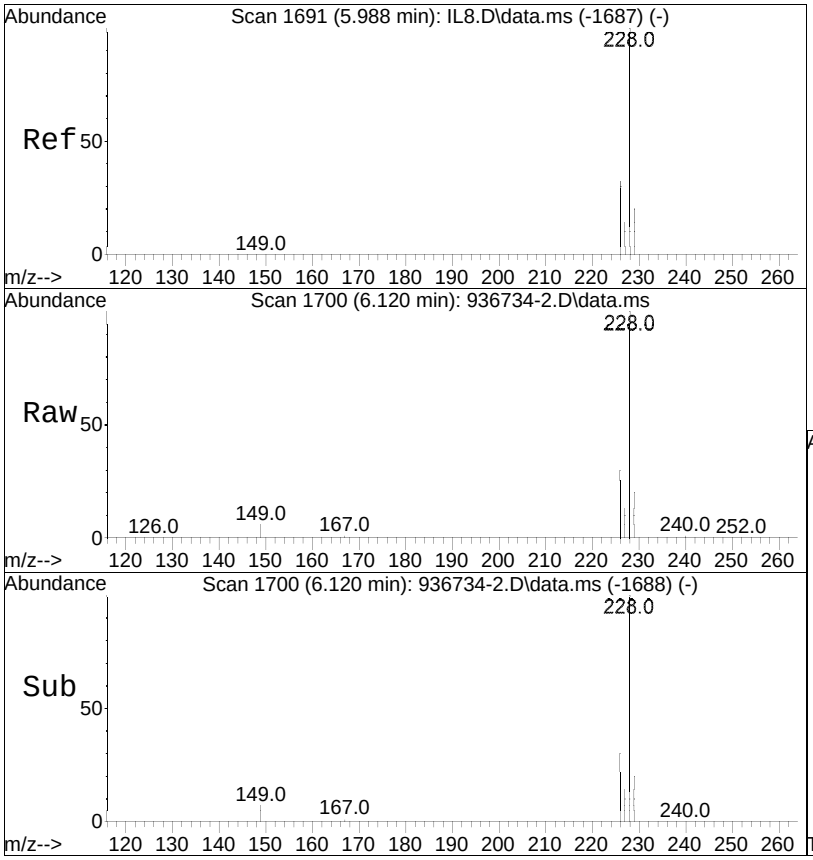


#33
Benzo[a]anthracene
Concen: 1536.41 ng/ml
RT: 6.098 min Scan# 1692
Delta R.T. -0.049 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:228 Resp: 830219

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.8	23.6

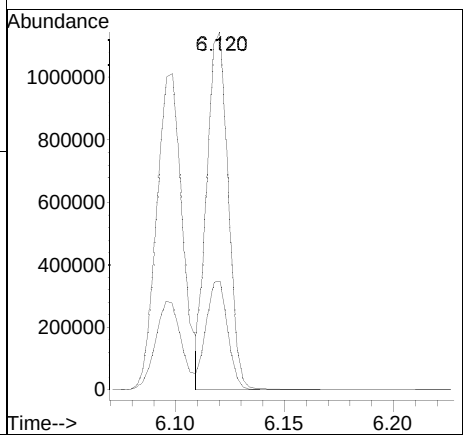


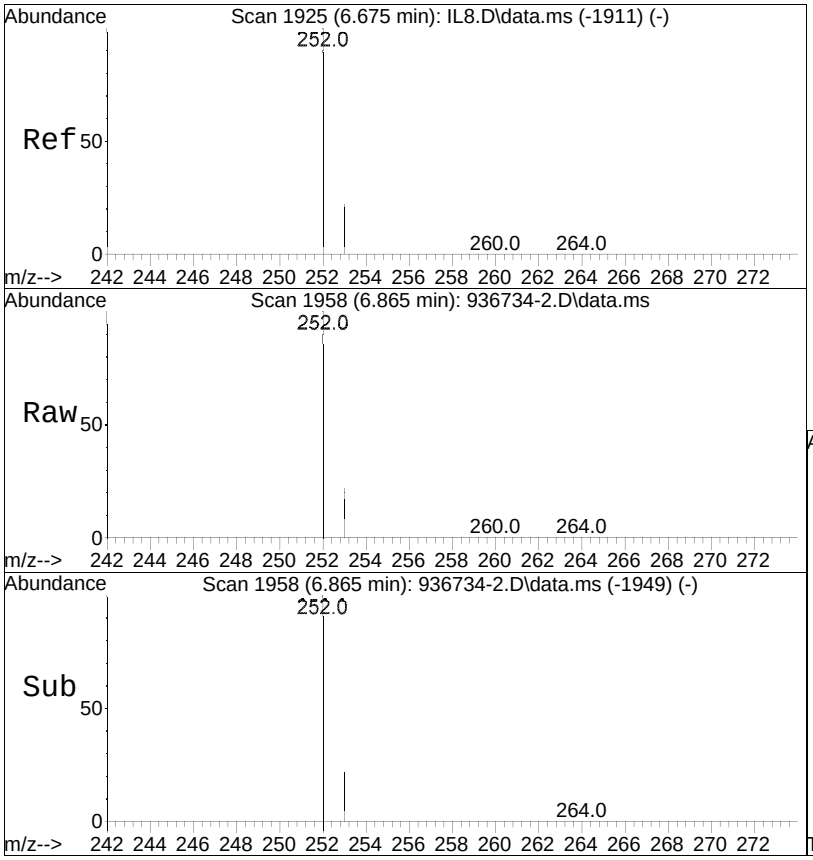


#35
Chrysene
Concen: 1607.83 ng/ml
RT: 6.120 min Scan# 1700
Delta R.T. -0.049 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:228 Resp: 776334

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

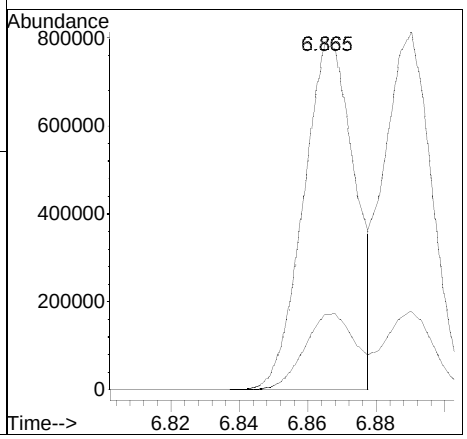


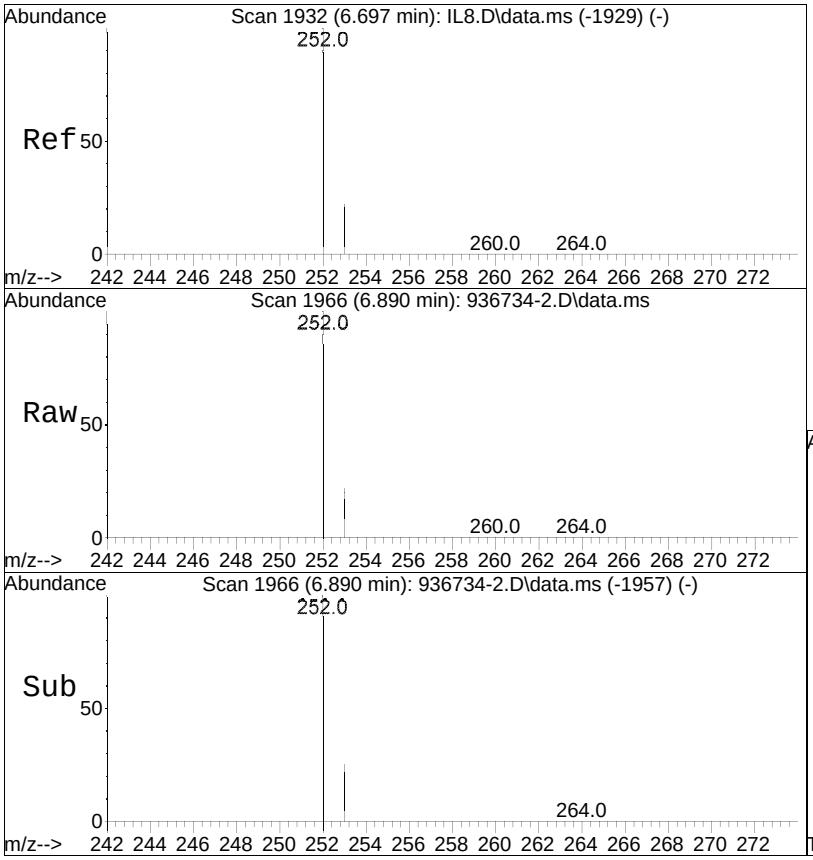


#38
Benzo[b]fluoranthene
Concen: 1613.94 ng/ml
RT: 6.865 min Scan# 1958
Delta R.T. -0.053 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:252 Resp: 837210

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

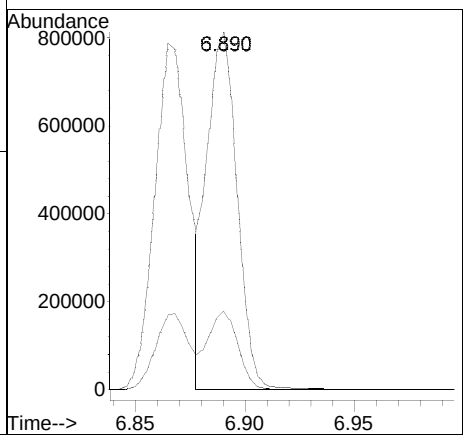


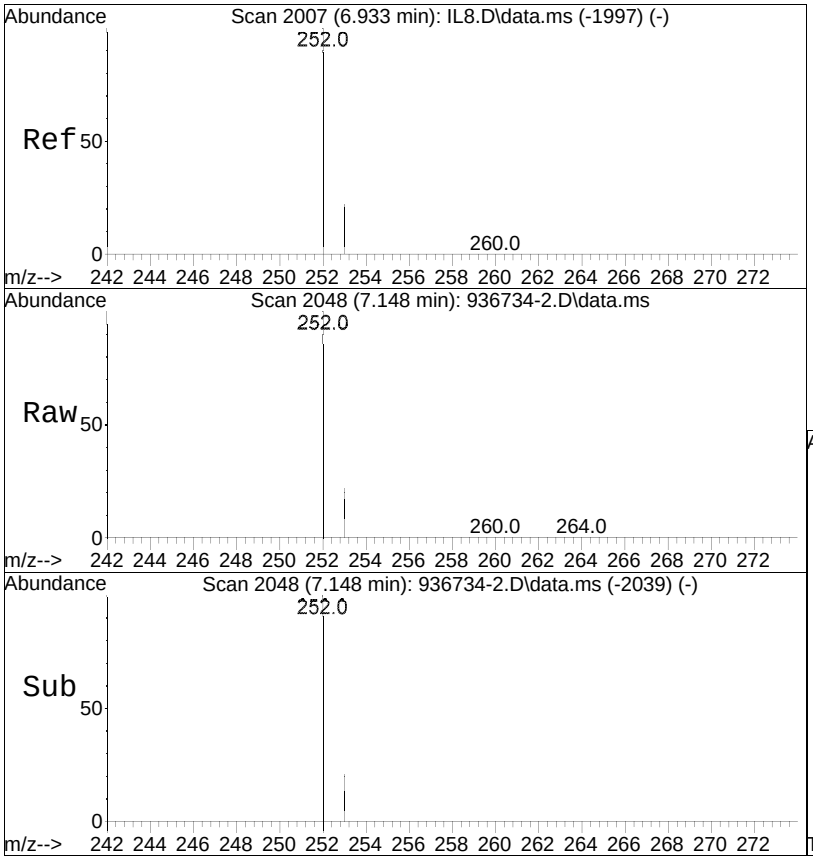


#39
Benzo[k]fluoranthene
Concen: 1606.85 ng/ml
RT: 6.890 min Scan# 1966
Delta R.T. -0.053 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:252 Resp: 777436

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5

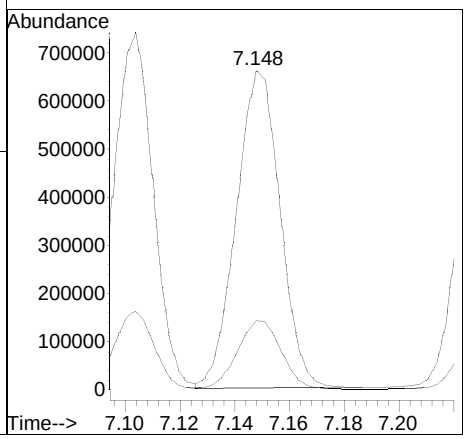


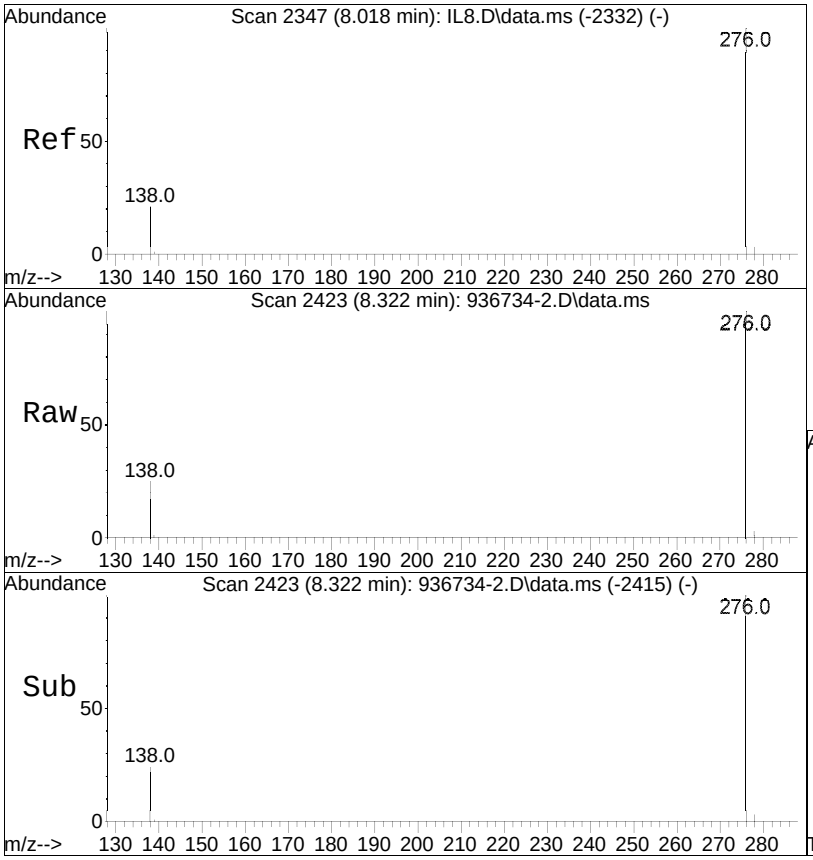


#40
Benzo[a]pyrene
Concen: 1709.88 ng/ml
RT: 7.148 min Scan# 2048
Delta R.T. -0.053 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:252 Resp: 735506

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

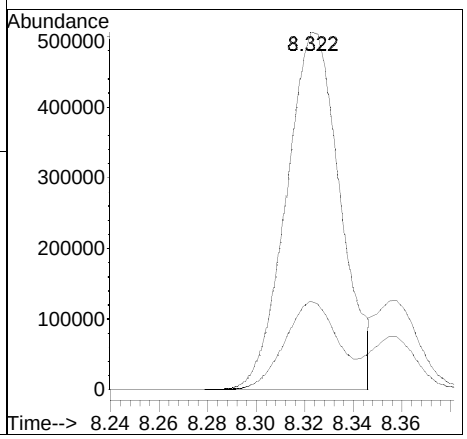


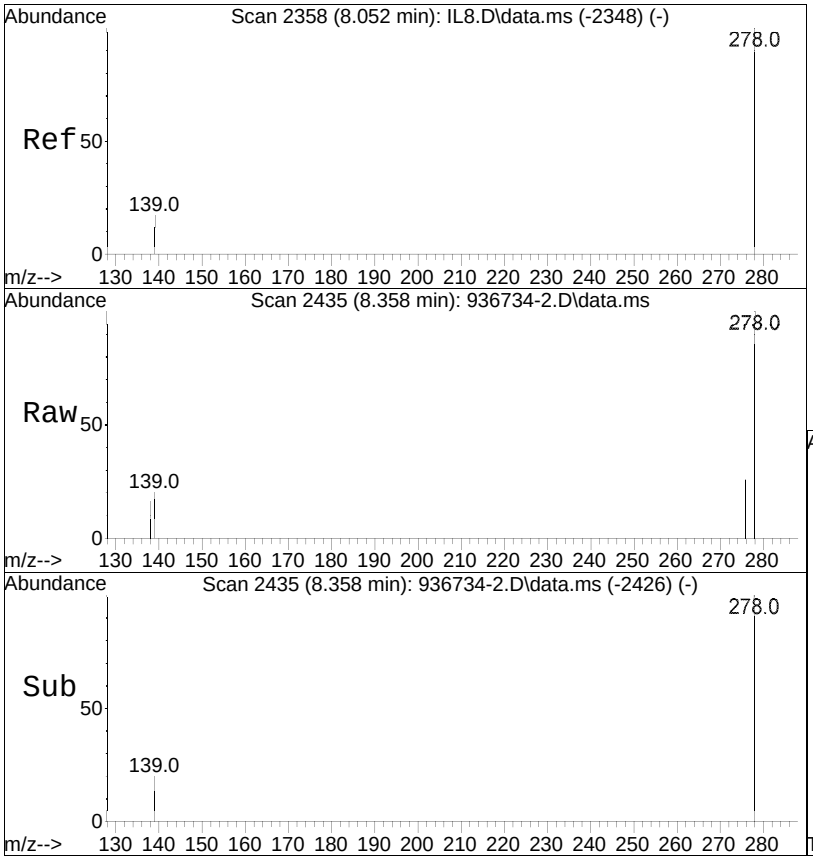


#41
Indeno[1,2,3-cd]pyrene
Concen: 1816.54 ng/ml
RT: 8.322 min Scan# 2423
Delta R.T. -0.055 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:276 Resp: 778361

Ion	Ratio	Lower	Upper
276	100		
138	24.0	16.2	24.4

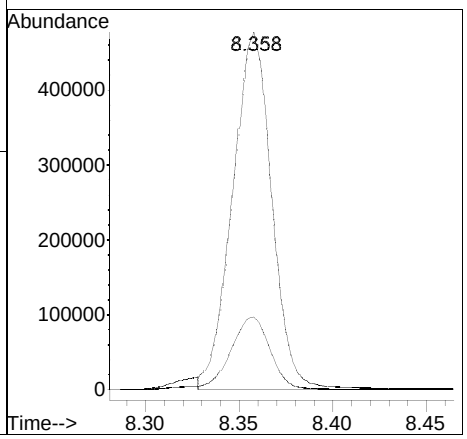


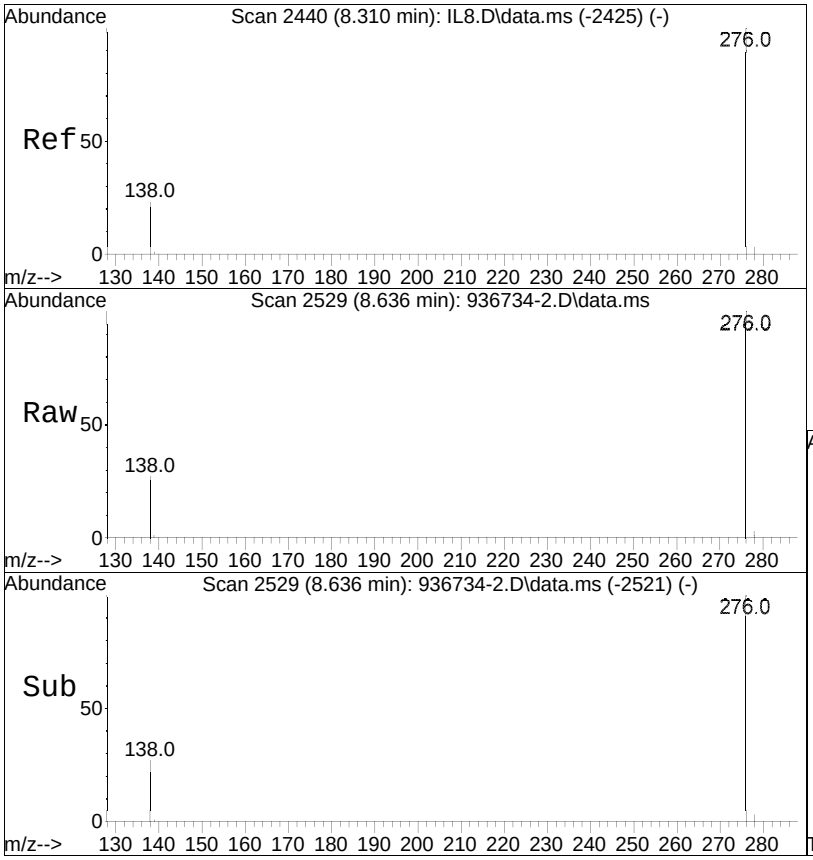


#42
Dibenzo[a,h]anthracene
Concen: 1740.06 ng/ml M6
RT: 8.358 min Scan# 2435
Delta R.T. -0.052 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:278 Resp: 691167

Ion	Ratio	Lower	Upper
278	100		
139	21.1	14.5	21.7

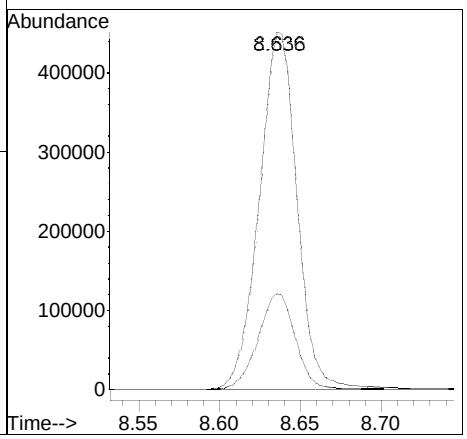




#43
Benzo[g,h,i]perylene
Concen: 1671.54 ng/ml
RT: 8.636 min Scan# 2529
Delta R.T. -0.055 min
Lab File: 936734-2.D
Acq: 20 Jun 2024 01:19 pm

Tgt Ion:276 Resp: 720836

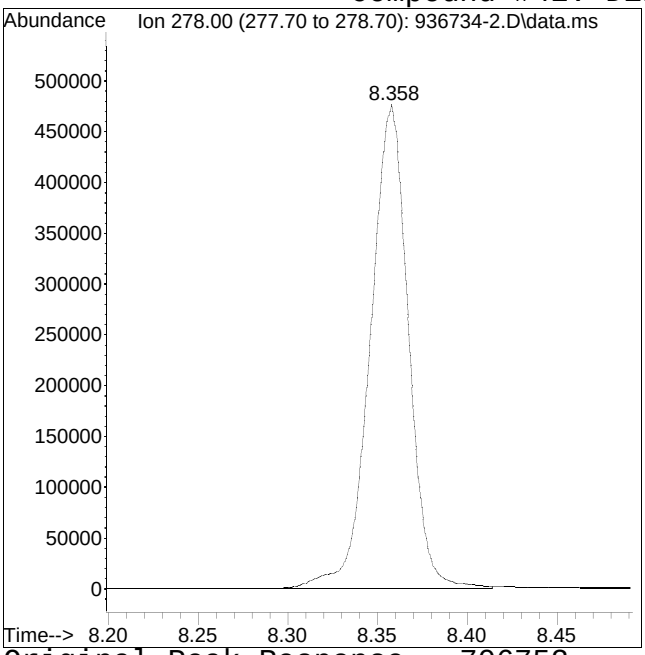
Ion	Ratio	Lower	Upper
276	100		
138	26.7	18.5	27.7



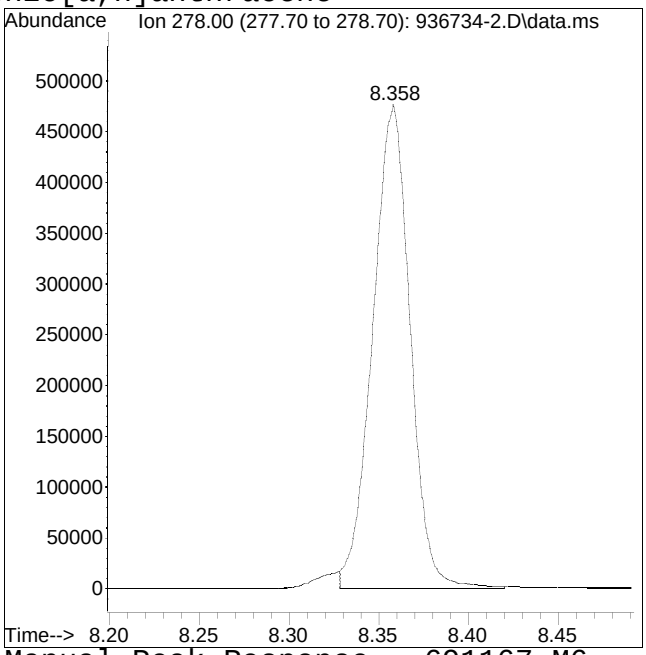
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936734-2.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 1:19 pm Instrument : SV125
Sample : WG1936734-2,32,,jjw Quant Date : 6/20/2024 1:34 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 706752



Manual Peak Response = 691167 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-2.D
Acq On : 20 Jun 2024 08:54 pm
Operator : SV125:jjw
Sample : WG1936909-2,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 21 09:11:09 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	405796	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 85.70%			
9) Naphthalene-d8	2.768	136	1576720	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 86.61%			
18) Acenaphthene-d10	3.749	164	864970	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 83.35%			
23) Phenanthrene-d10	4.583	188	1716139	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 81.19%			
32) Chrysene-d12	6.099	240	1384600M1	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 86.61%			
37) Perylene-d12	7.201	264	1570822	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 99.97%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.526	112	99223	826.739	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 16.53%			
4) Phenol-d6	1.924	99	98184	706.622	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.13%#			
8) Nitrobenzene-d5	2.385	82	97179	863.376	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 34.54%			
14) 2-Fluorobiphenyl	3.370	172	232358	641.779	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 25.67%#			
22) 2,4,6-Tribromophenol	4.192	330	50290	1042.273	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.85%			
31) 4-Terphenyl-d14	5.494	244	221493	631.629	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 25.27%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	1.969	93	186812	1508.704	ng/ml	96
7) Hexachloroethane	2.362	117	65858	1196.607	ng/ml	98
10) Naphthalene	2.781	128	563977	1281.205	ng/ml#	100
11) Hexachlorobutadiene	2.854	225	84403	1006.208	ng/ml	100
12) 2-Methylnaphthalene	3.163	142	384233	1362.639	ng/ml	98
15) 2-Chloronaphthalene	3.434	162	379378	1209.619	ng/ml	90
17) Acenaphthylene	3.667	152	613677	1315.230	ng/ml	99
19) Acenaphthene	3.764	153	407375	1377.532	ng/ml	99
21) Fluorene	4.055	166	451240	1333.312	ng/ml	99
25) Hexachlorobenzene	4.371	284	140015	1179.050	ng/ml	95

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-2.D
Acq On : 20 Jun 2024 08:54 pm
Operator : SV125:jjw
Sample : WG1936909-2,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 21 09:11:09 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	4.486	266	38626	632.461	ng/ml	100
27) Phenanthrene	4.598	178	647739	1305.257	ng/ml	100
28) Anthracene	4.625	178	673942	1405.852	ng/ml	100
29) Fluoranthene	5.270	202	779788	1355.075	ng/ml	98
30) Pyrene	5.398	202	809072	1344.662	ng/ml	98
33) Benzo[a]anthracene	6.093	228	753750	1361.090	ng/ml	100
35) Chrysene	6.112	228	693971	1403.408	ng/ml	99
38) Benzo[b]fluoranthene	6.859	252	806286	1474.556	ng/ml	100
39) Benzo[k]fluoranthene	6.881	252	677987	1329.389	ng/ml	100
40) Benzo[a]pyrene	7.142	252	698714	1540.984	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.317	276	810924	1795.409	ng/ml#	91
42) Dibenzo[a,h]anthracene	8.352	278	715893M6	1709.811	ng/ml	
43) Benzo[g,h,i]perylene	8.630	276	757086	1665.501	ng/ml	92

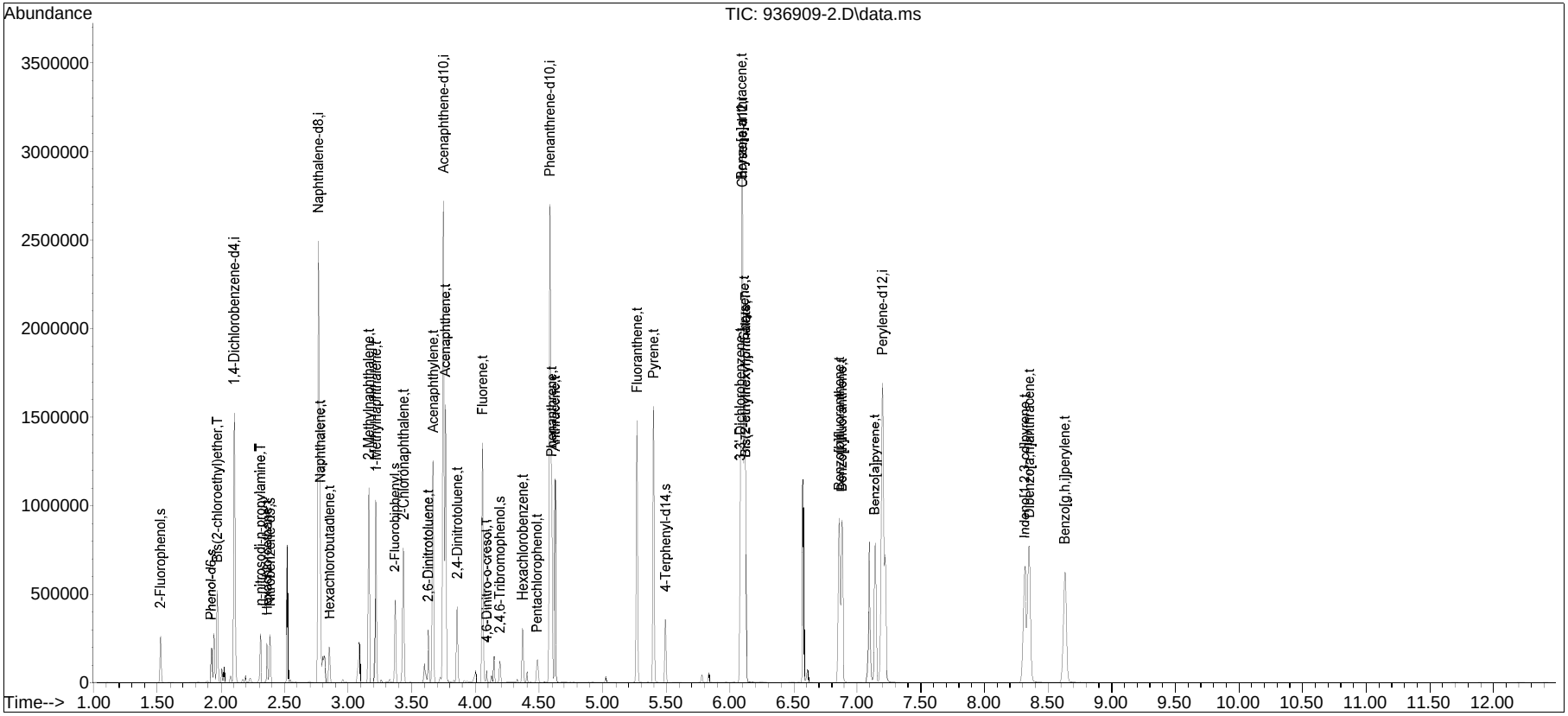
(#) = qualifier out of range (m) = manual integration (+) = signals summed

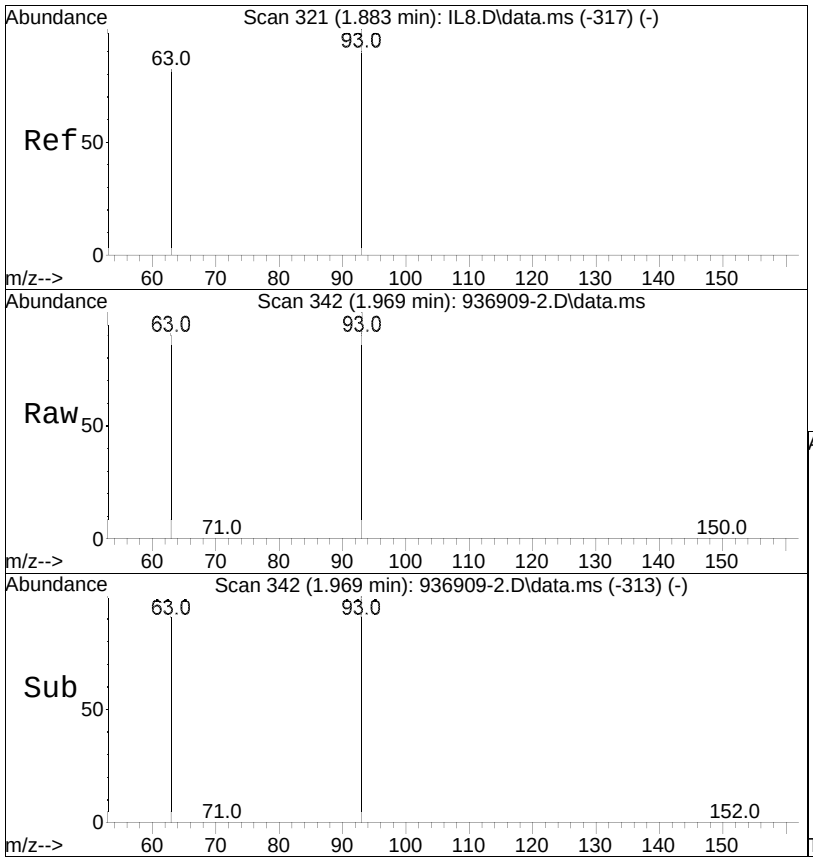
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-2.D
Acq On : 20 Jun 2024 08:54 pm
Operator : SV125:jjw
Sample : WG1936909-2,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 21 09:11:09 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

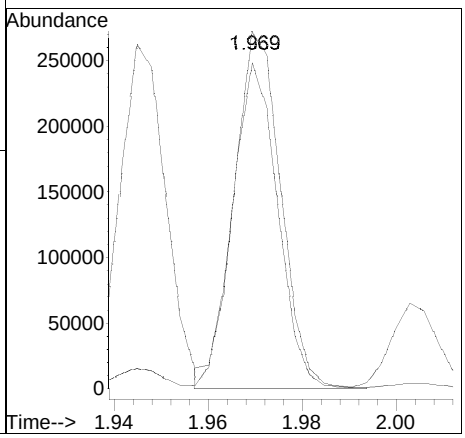


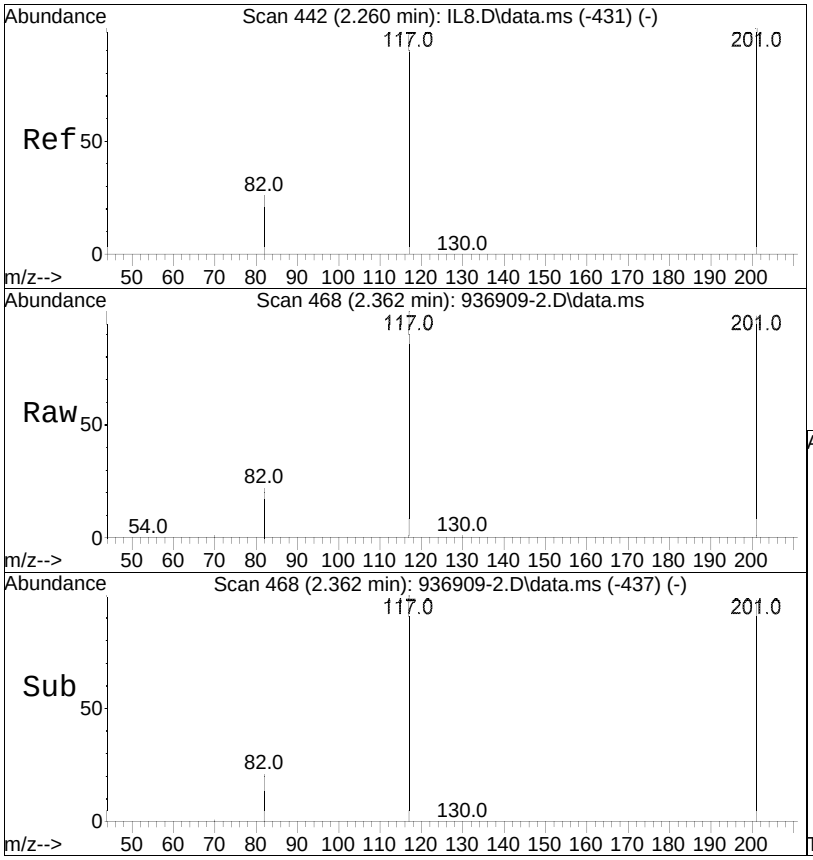


#5
Bis(2-chloroethyl)ether
Concen: 1508.70 ng/ml
RT: 1.969 min Scan# 342
Delta R.T. 0.009 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion: 93 Resp: 186812

Ion	Ratio	Lower	Upper
93	100		
63	88.4	67.7	101.5

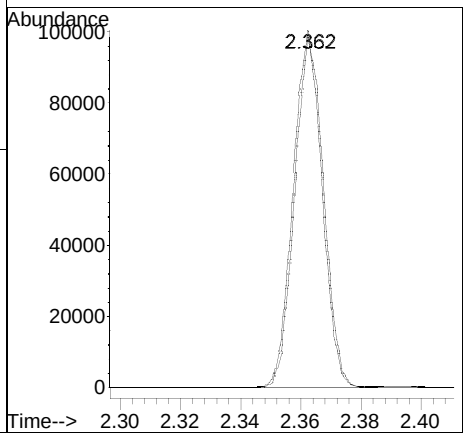


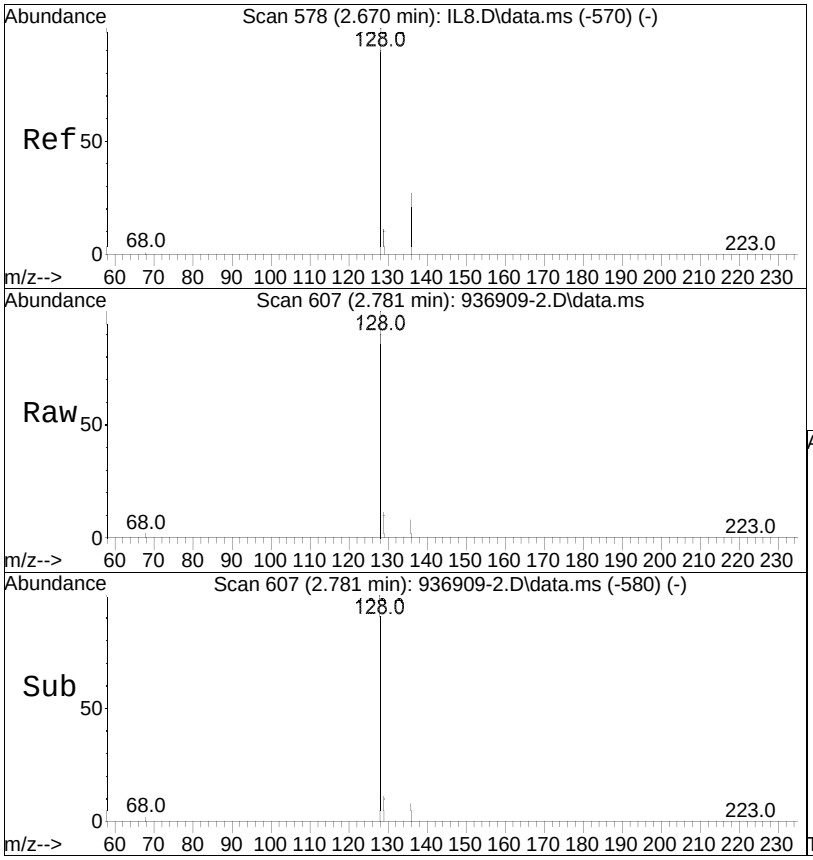


#7
Hexachloroethane
Concen: 1196.61 ng/ml
RT: 2.362 min Scan# 468
Delta R.T. 0.009 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:117 Resp: 65858

Ion	Ratio	Lower	Upper
117	100		
201	98.8	80.8	121.2

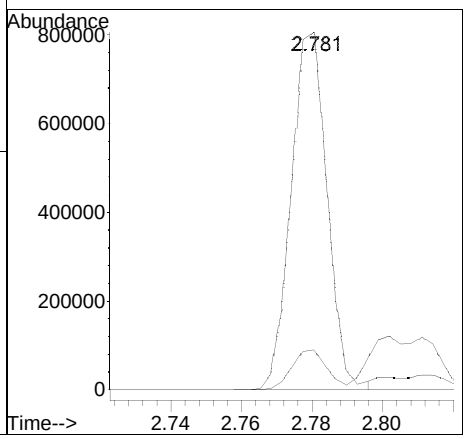


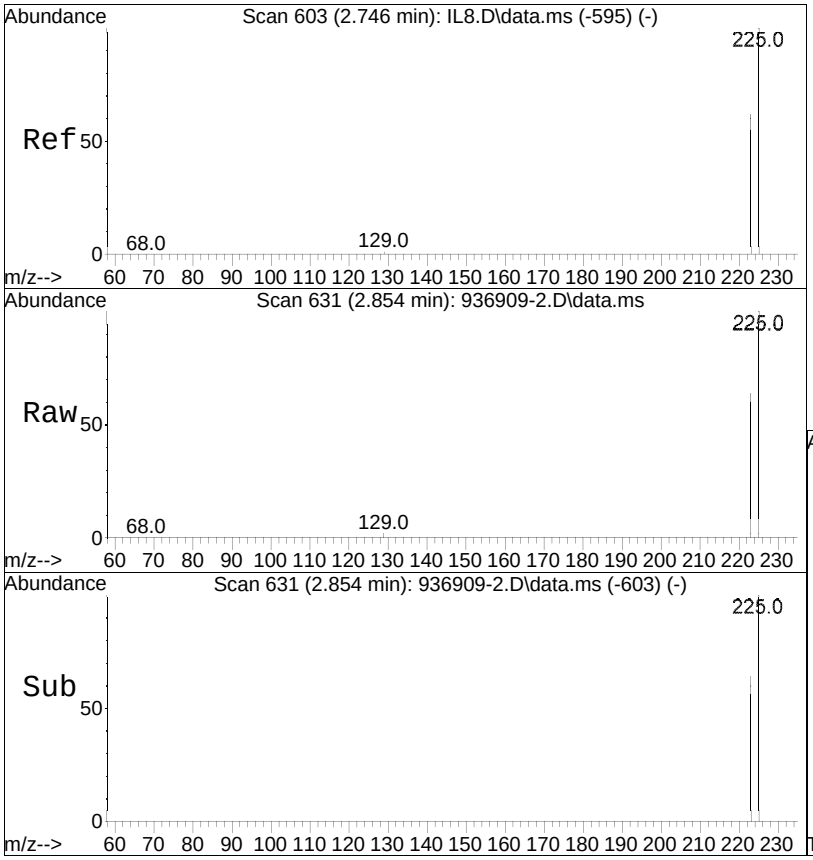


#10
Naphthalene
Concen: 1281.20 ng/ml
RT: 2.781 min Scan# 607
Delta R.T. 0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:128 Resp: 563977

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	0.0	0.0	0.0

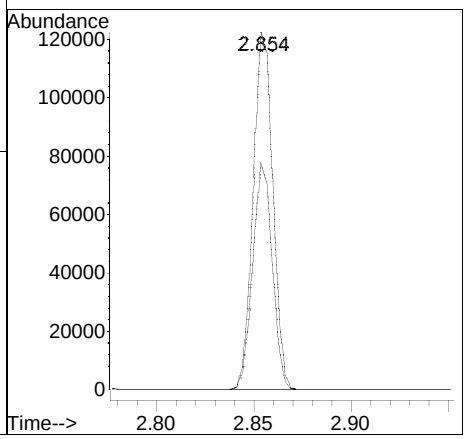


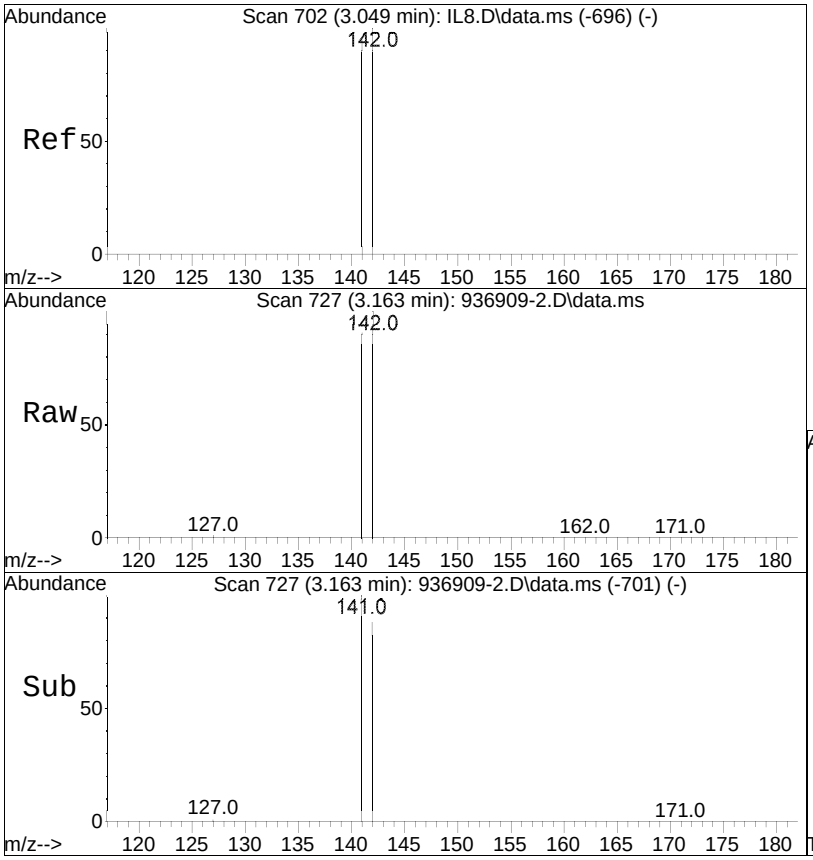


#11
Hexachlorobutadiene
Concen: 1006.21 ng/ml
RT: 2.854 min Scan# 631
Delta R.T. 0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:225 Resp: 84403

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4

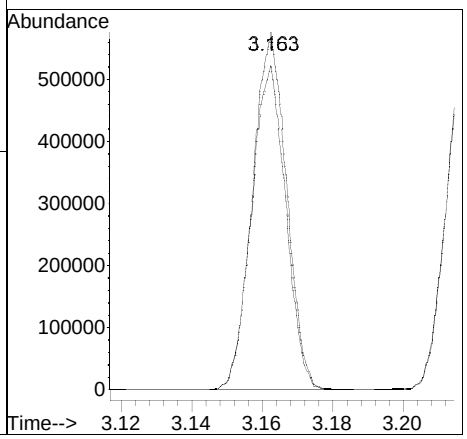


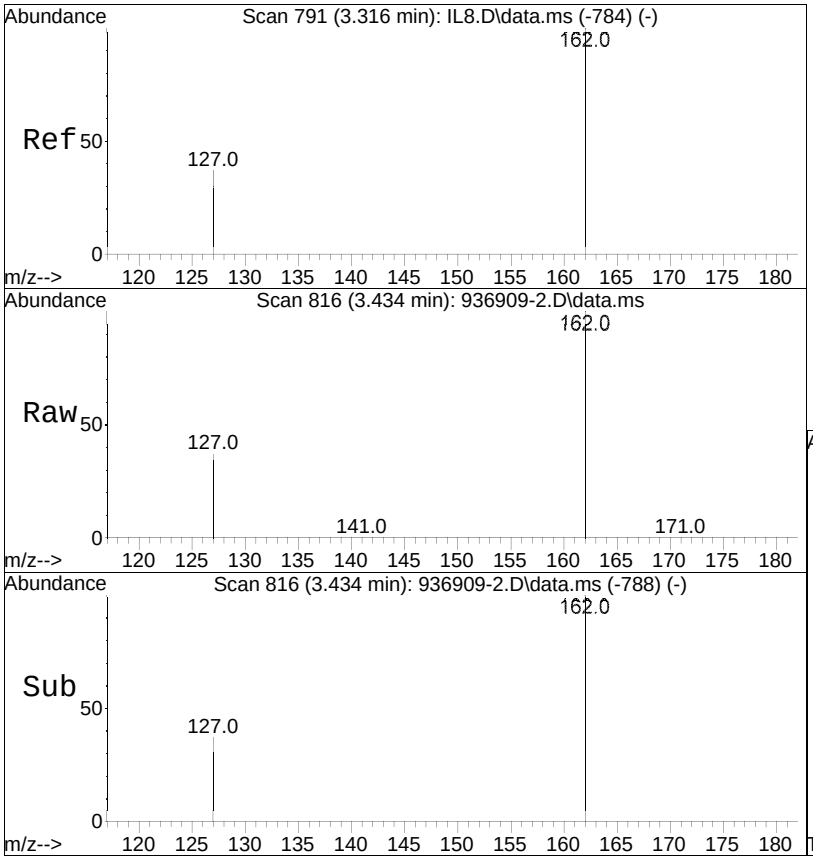


#12
2-Methylnaphthalene
Concen: 1362.64 ng/ml
RT: 3.163 min Scan# 727
Delta R.T. 0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:142 Resp: 384233

Ion	Ratio	Lower	Upper
142	100		
141	91.5	74.4	111.6

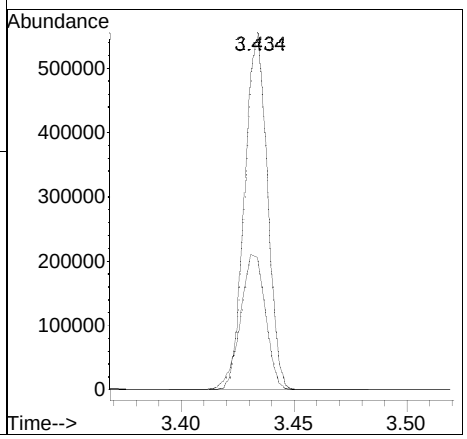


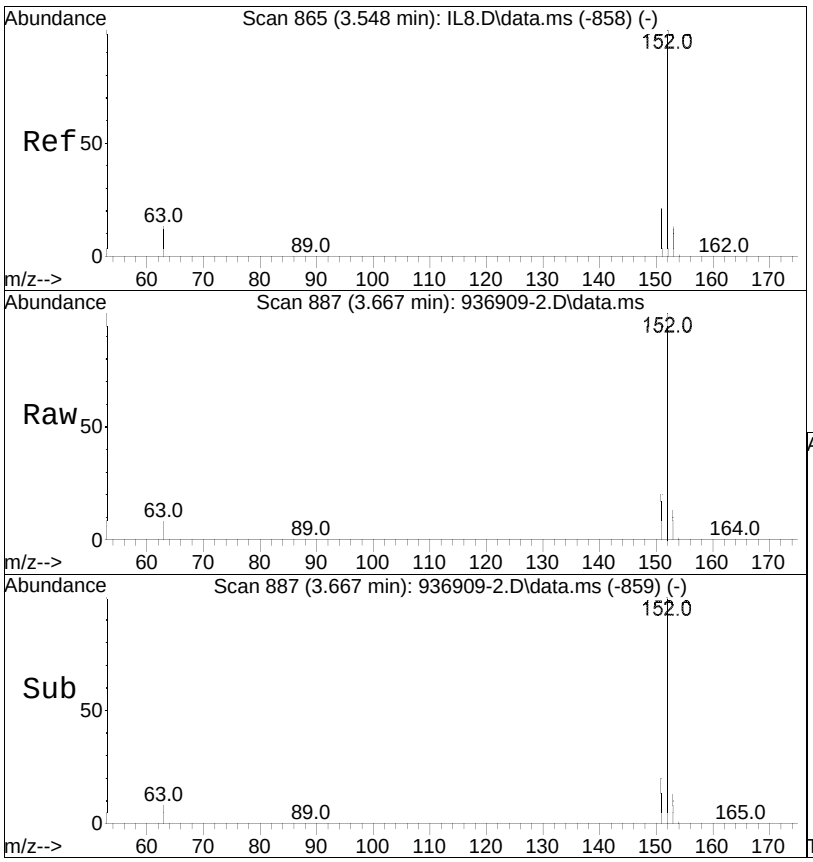


#15
2-Chloronaphthalene
Concen: 1209.62 ng/ml
RT: 3.434 min Scan# 816
Delta R.T. 0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:162 Resp: 379378

Ion	Ratio	Lower	Upper
162	100		
127	42.4	29.2	43.8

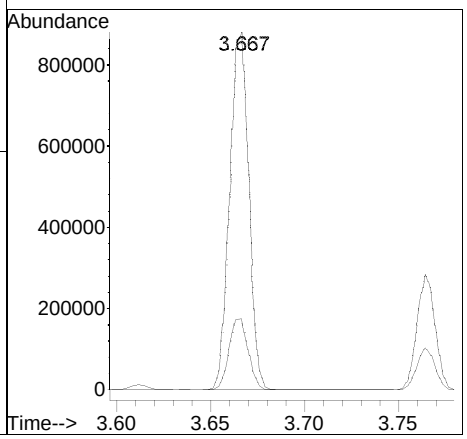


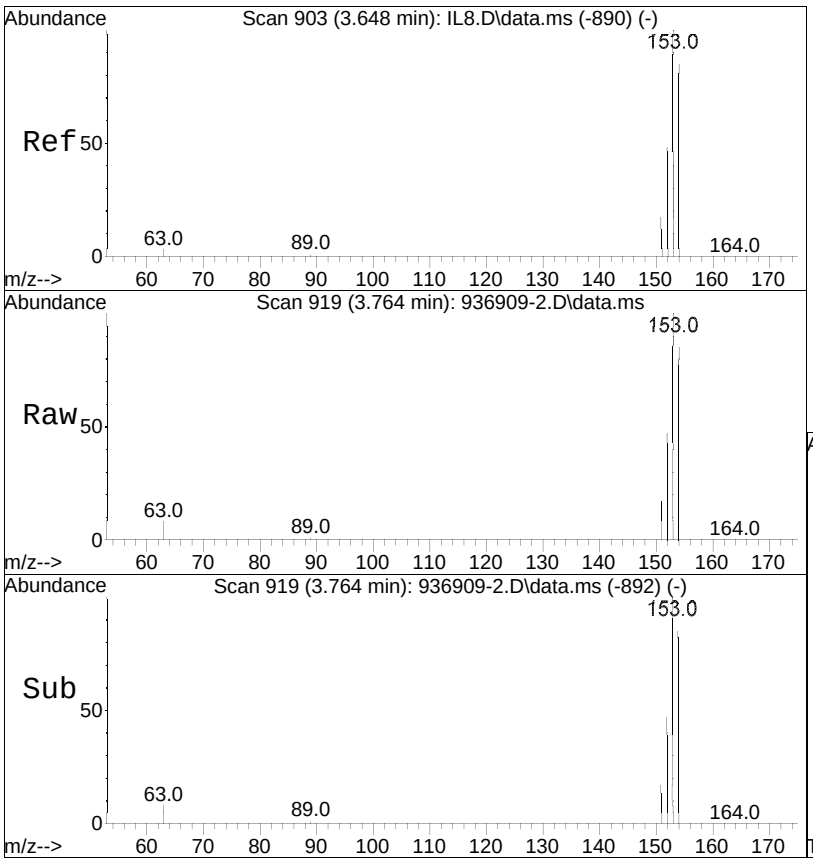


#17
Acenaphthylene
Concen: 1315.23 ng/ml
RT: 3.667 min Scan# 887
Delta R.T. 0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:152 Resp: 613677

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6

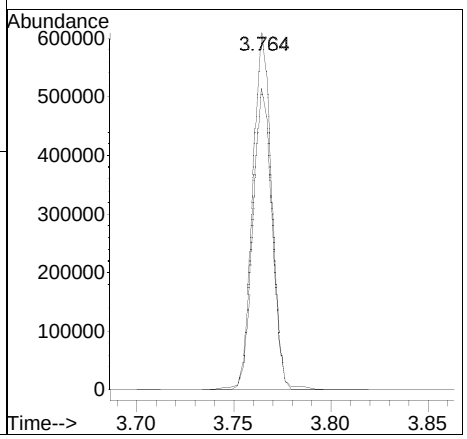


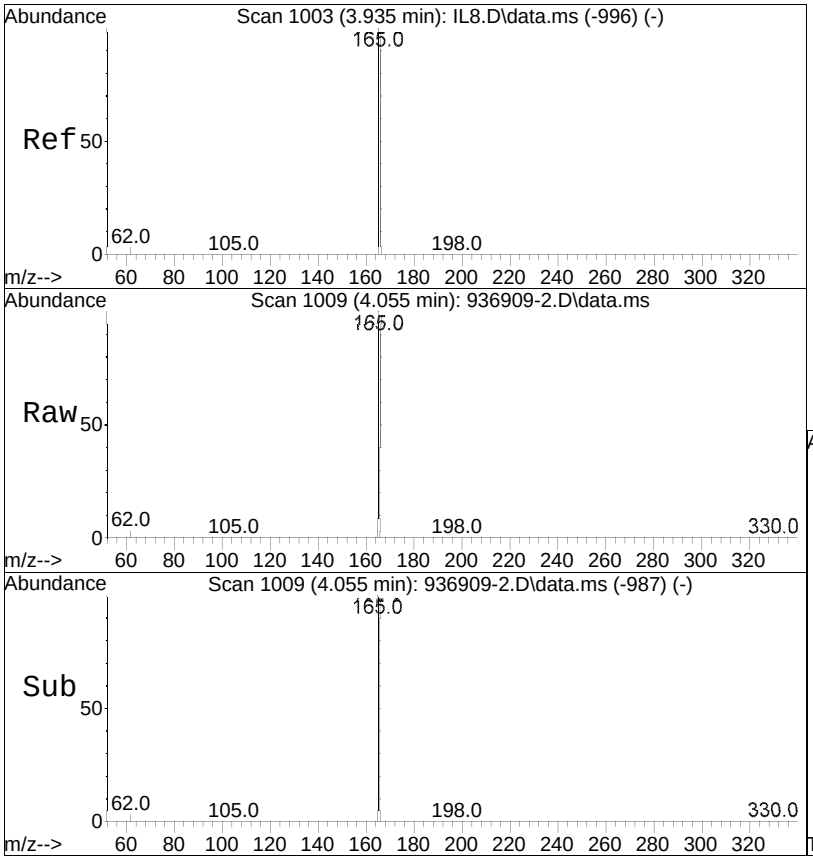


#19
Acenaphthene
Concen: 1377.53 ng/ml
RT: 3.764 min Scan# 919
Delta R.T. 0.003 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:153 Resp: 407375

Ion	Ratio	Lower	Upper
153	100		
154	86.8	68.4	102.6

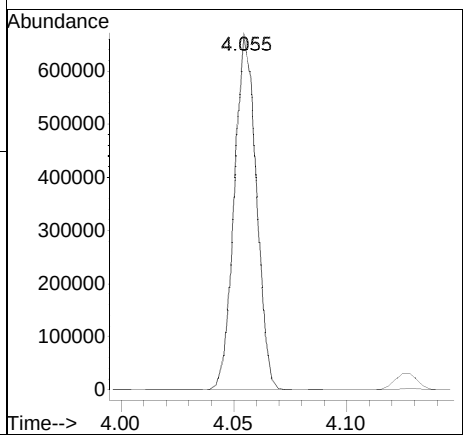


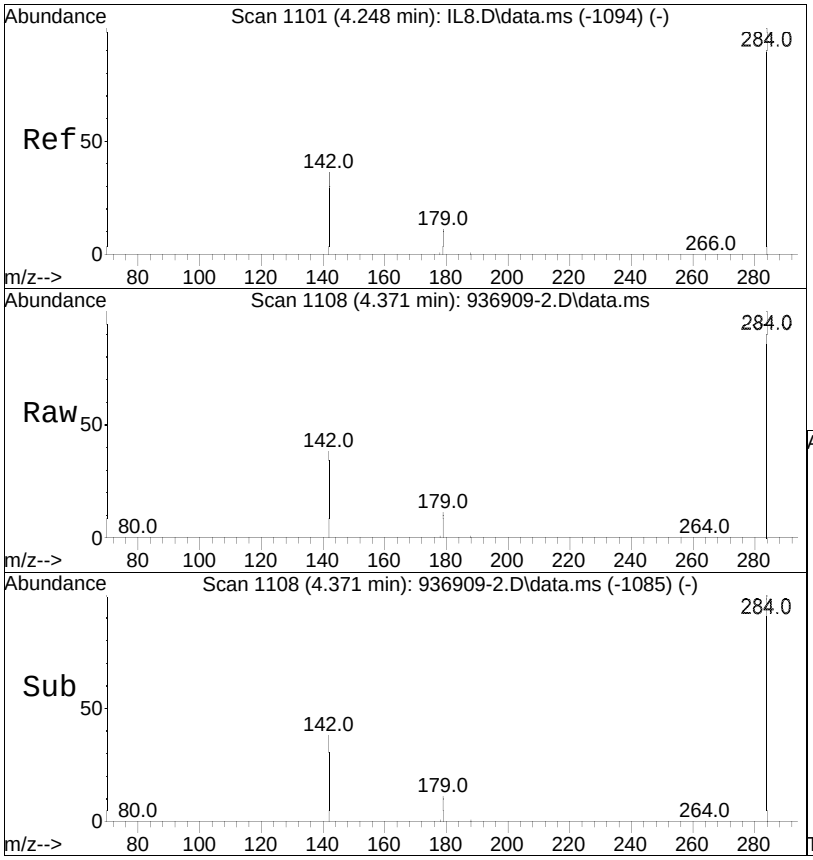


#21
Fluorene
Concen: 1333.31 ng/ml
RT: 4.055 min Scan# 1009
Delta R.T. 0.003 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:166 Resp: 451240

Ion	Ratio	Lower	Upper
166	100		
165	100.9	81.7	122.5

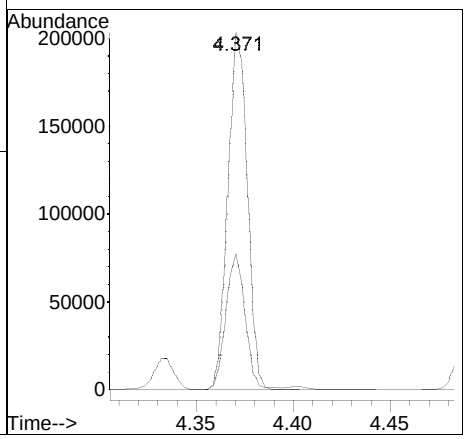


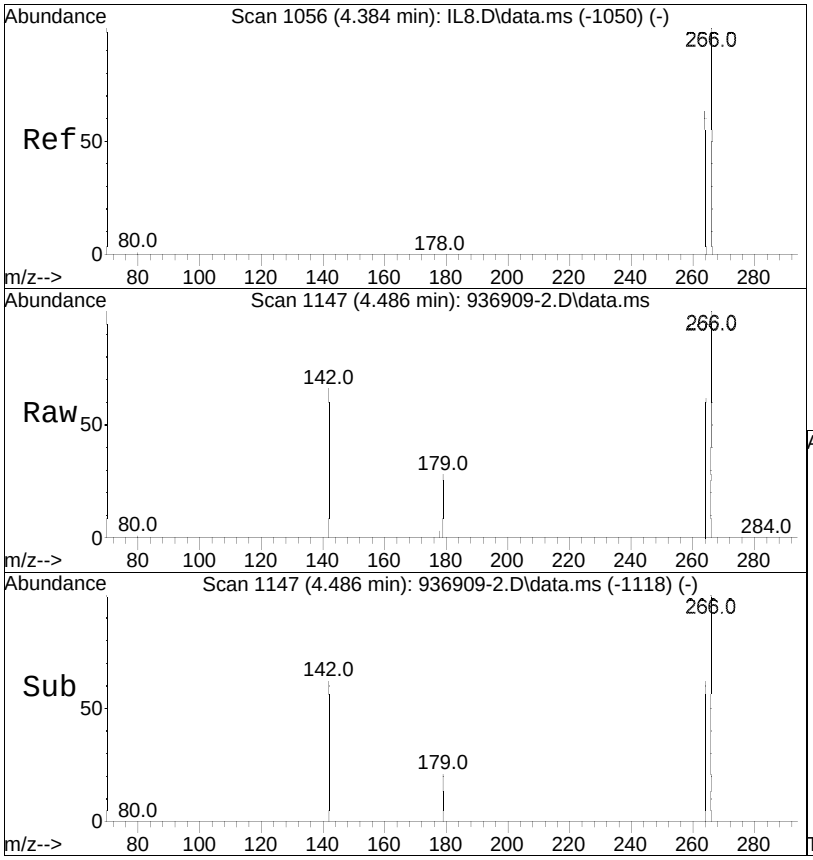


#25
Hexachlorobenzene
Concen: 1179.05 ng/ml
RT: 4.371 min Scan# 1108
Delta R.T. 0.003 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:284 Resp: 140015

Ion	Ratio	Lower	Upper
284	100		
142	37.9	28.2	42.2

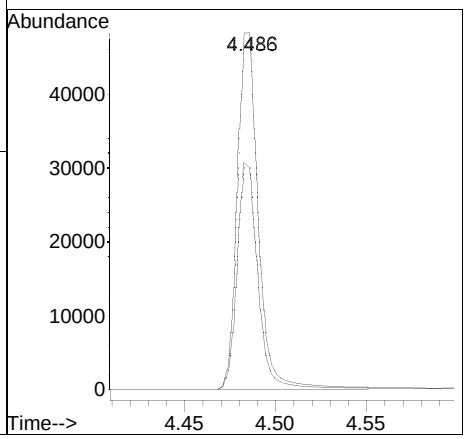


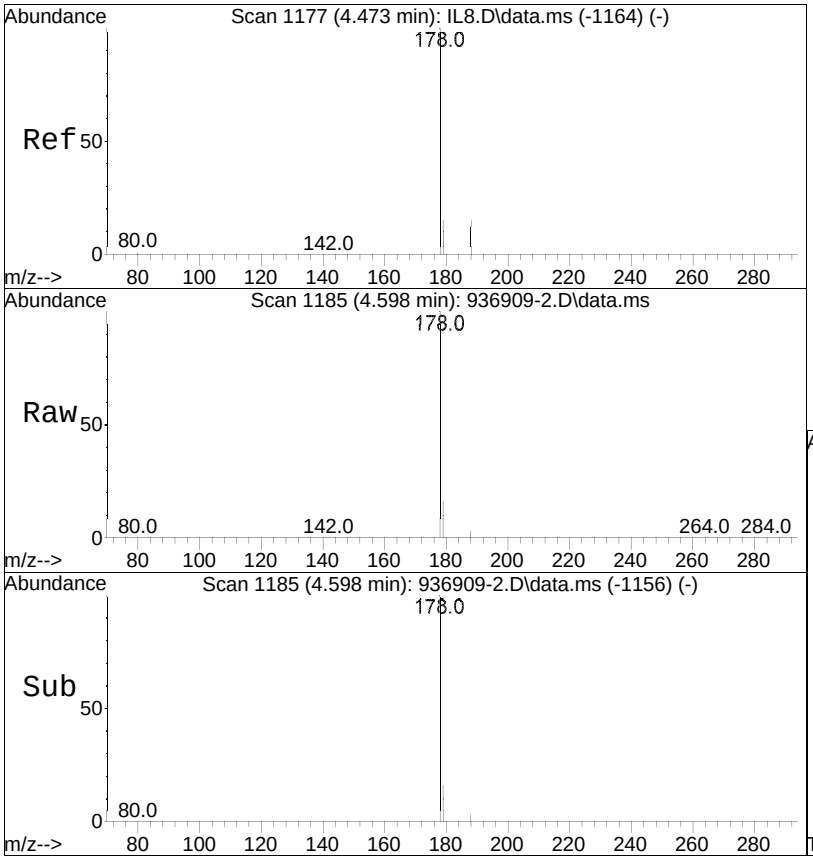


#26
Pentachlorophenol
Concen: 632.46 ng/ml
RT: 4.486 min Scan# 1147
Delta R.T. 0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:266 Resp: 38626

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.6	76.0

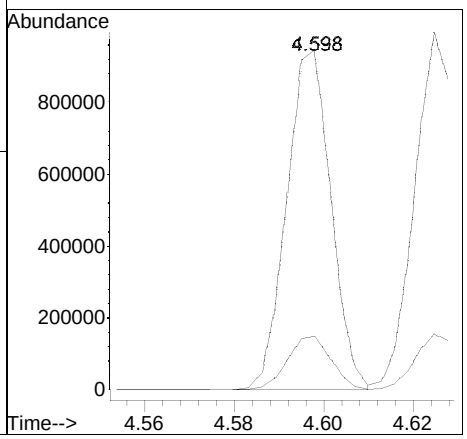


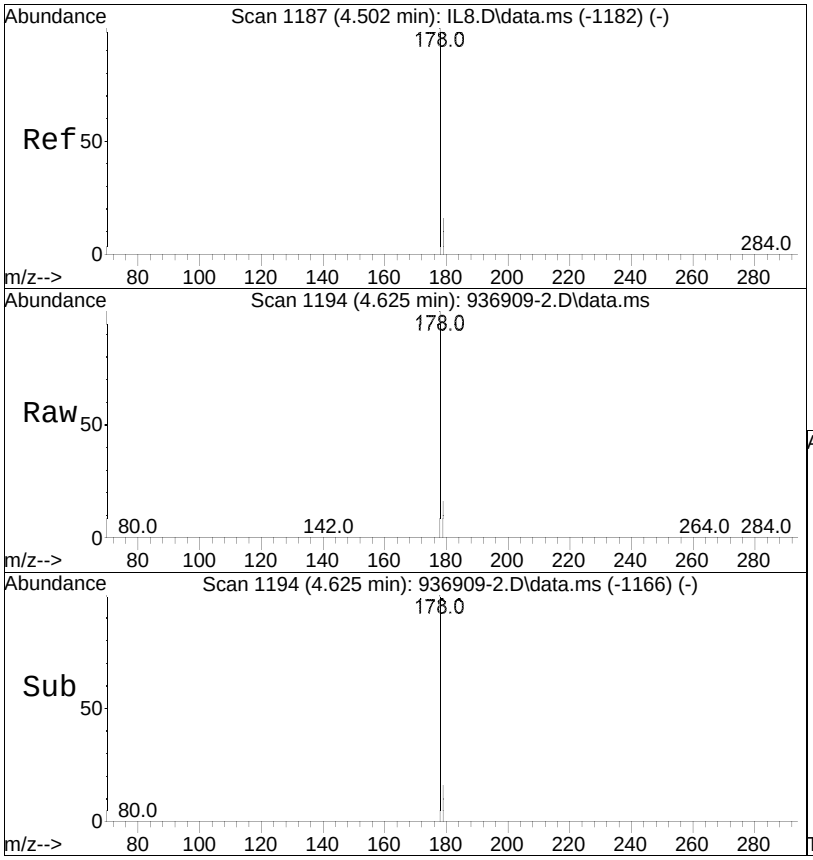


#27
Phenanthrene
Concen: 1305.26 ng/ml
RT: 4.598 min Scan# 1185
Delta R.T. 0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:178 Resp: 647739

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

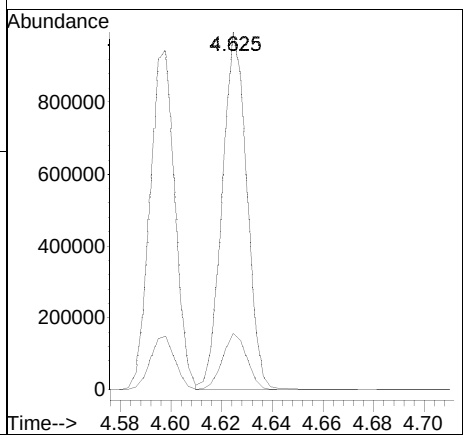


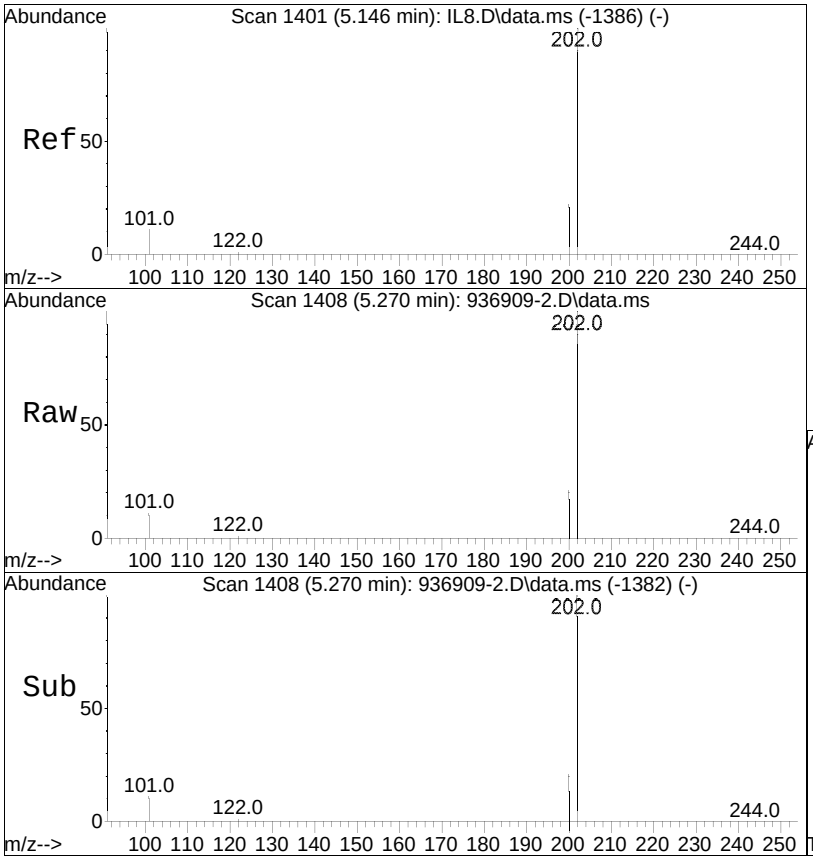


#28
Anthracene
Concen: 1405.85 ng/ml
RT: 4.625 min Scan# 1194
Delta R.T. 0.003 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:178 Resp: 673942

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

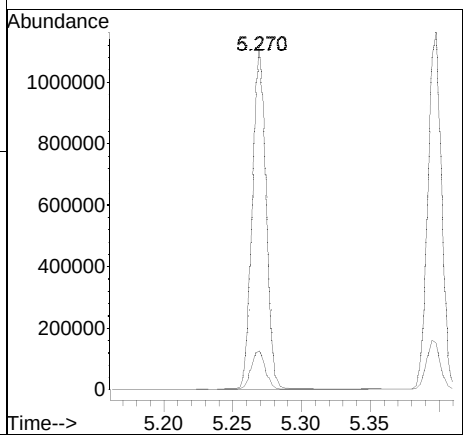


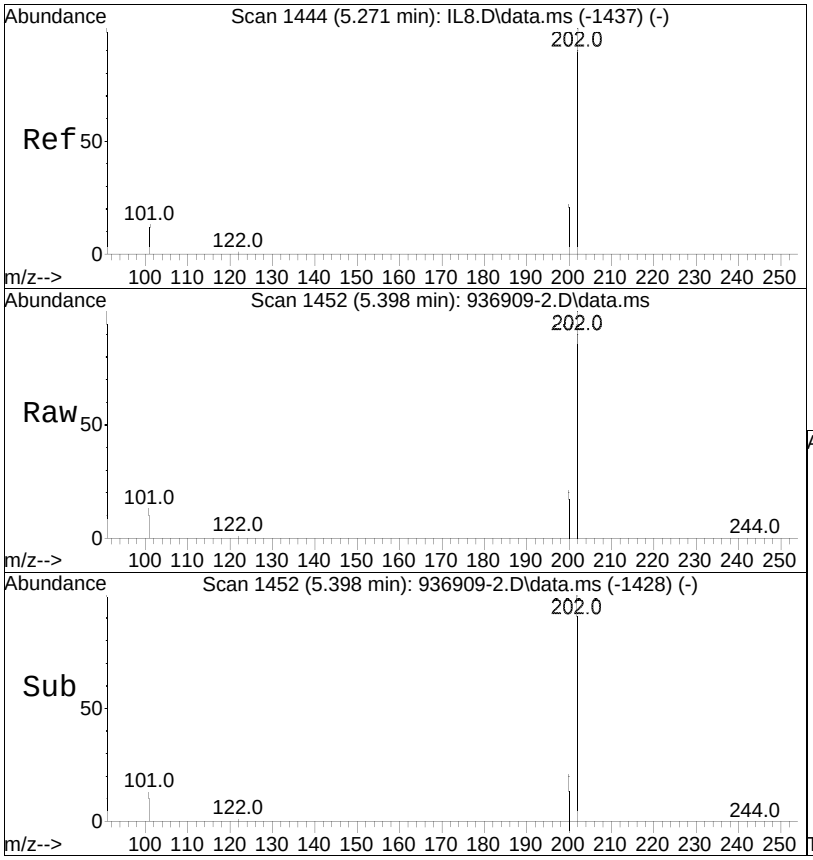


#29
Fluoranthene
Concen: 1355.08 ng/ml
RT: 5.270 min Scan# 1408
Delta R.T. -0.006 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:202 Resp: 779788

Ion	Ratio	Lower	Upper
202	100		
101	11.7	8.7	13.1

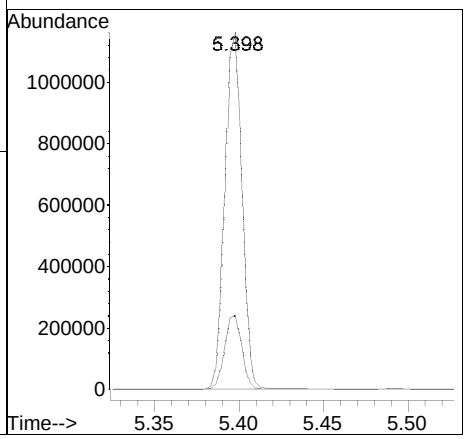


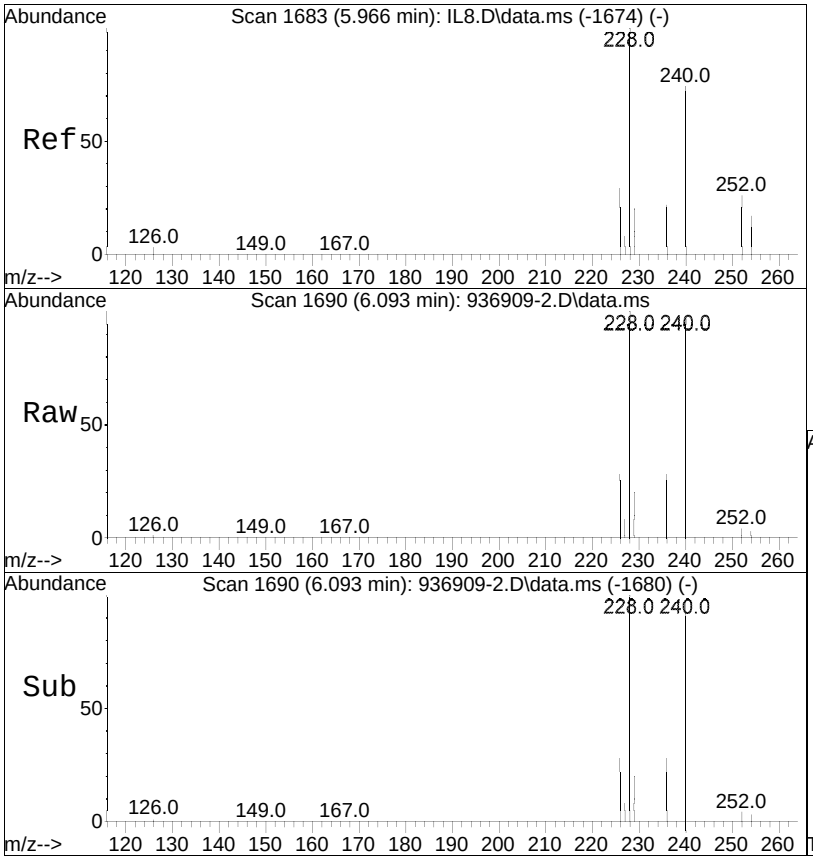


#30
Pyrene
Concen: 1344.66 ng/ml
RT: 5.398 min Scan# 1452
Delta R.T. -0.012 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:202 Resp: 809072

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

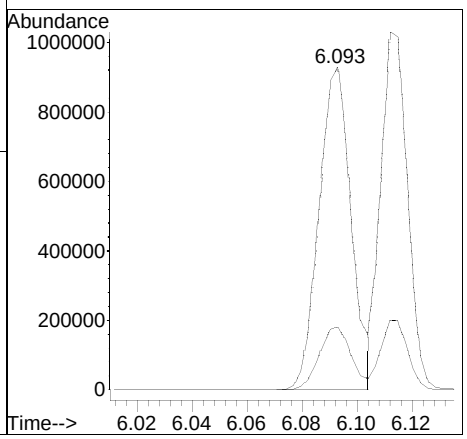


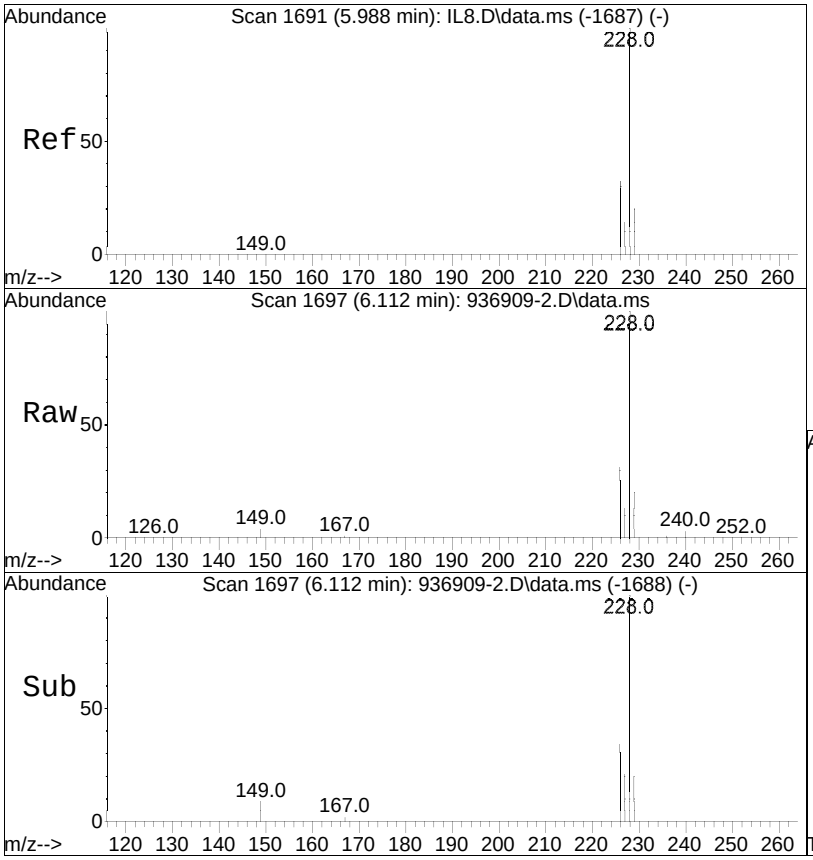


#33
Benzo[a]anthracene
Concen: 1361.09 ng/ml
RT: 6.093 min Scan# 1690
Delta R.T. -0.054 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:228 Resp: 753750

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.8	23.6

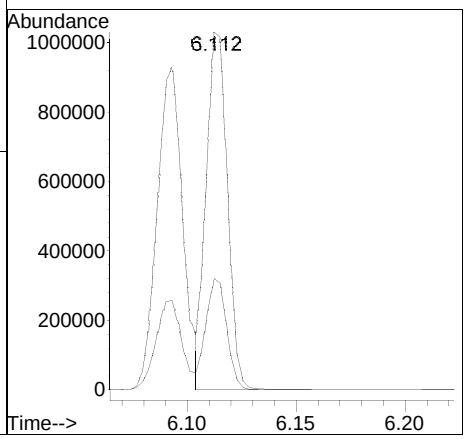


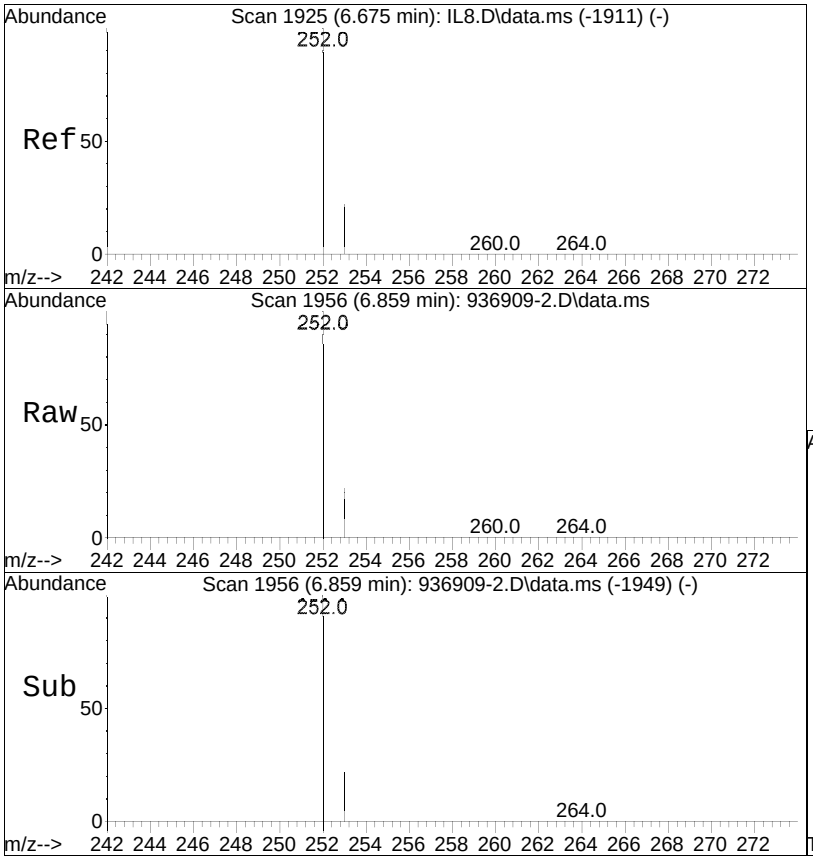


#35
Chrysene
Concen: 1403.41 ng/ml
RT: 6.112 min Scan# 1697
Delta R.T. -0.057 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:228 Resp: 693971

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

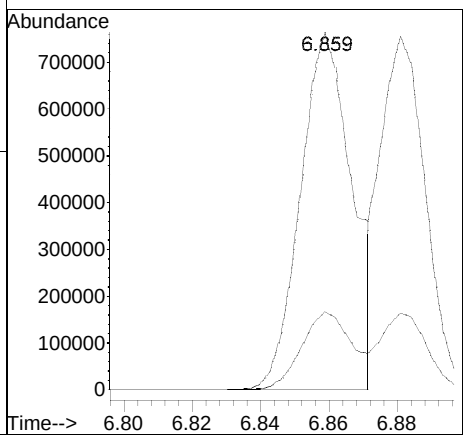


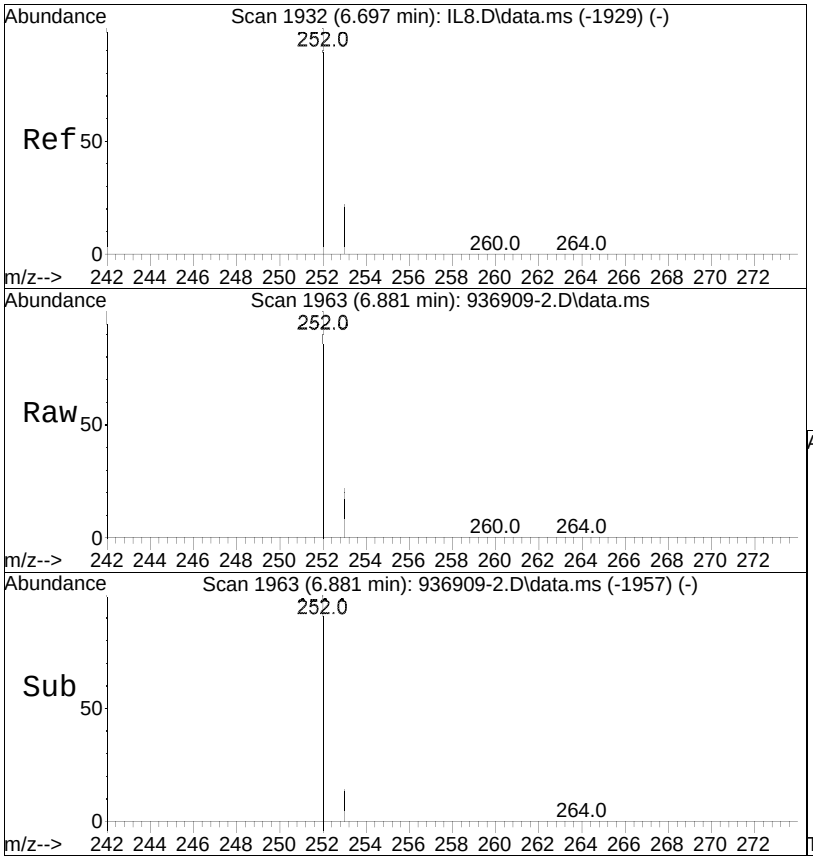


#38
Benzo[b]fluoranthene
Concen: 1474.56 ng/ml
RT: 6.859 min Scan# 1956
Delta R.T. -0.059 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:252 Resp: 806286

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

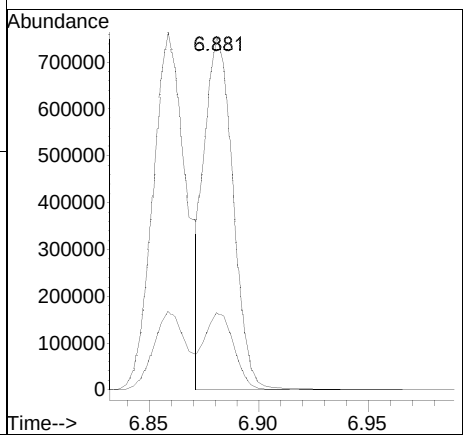


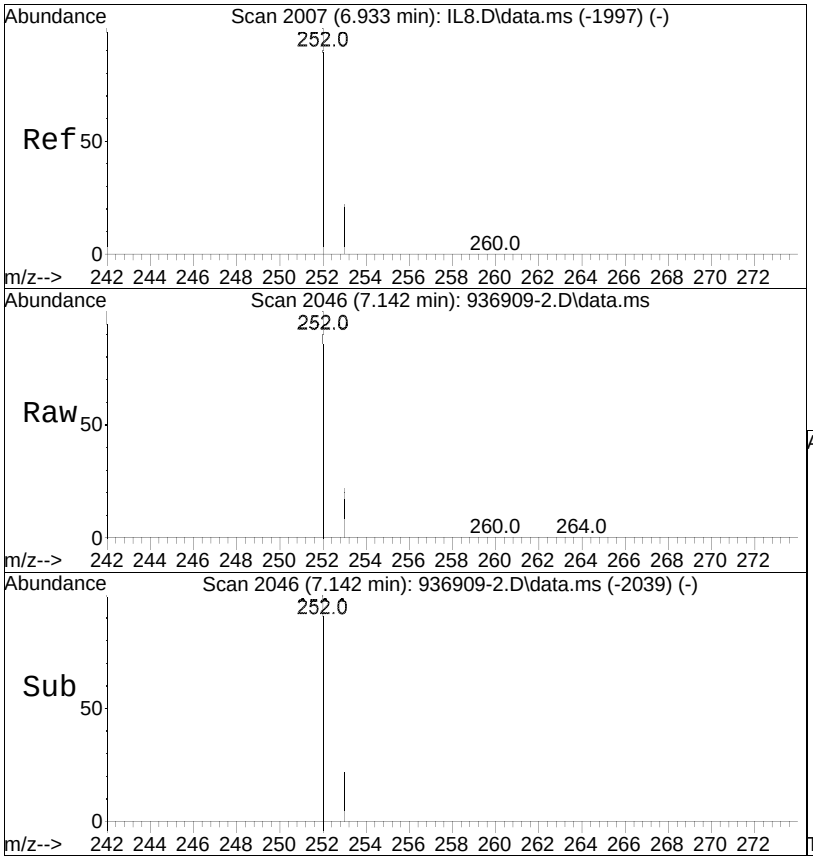


#39
Benzo[k]fluoranthene
Concen: 1329.39 ng/ml
RT: 6.881 min Scan# 1963
Delta R.T. -0.062 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:252 Resp: 677987

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5

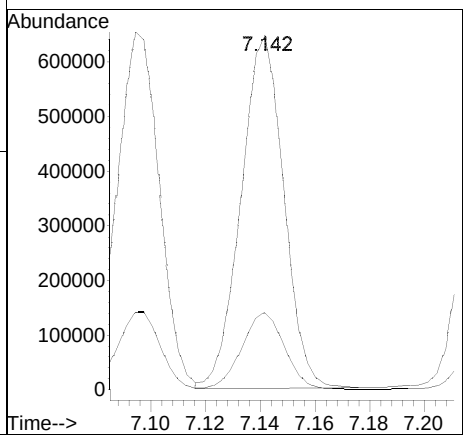


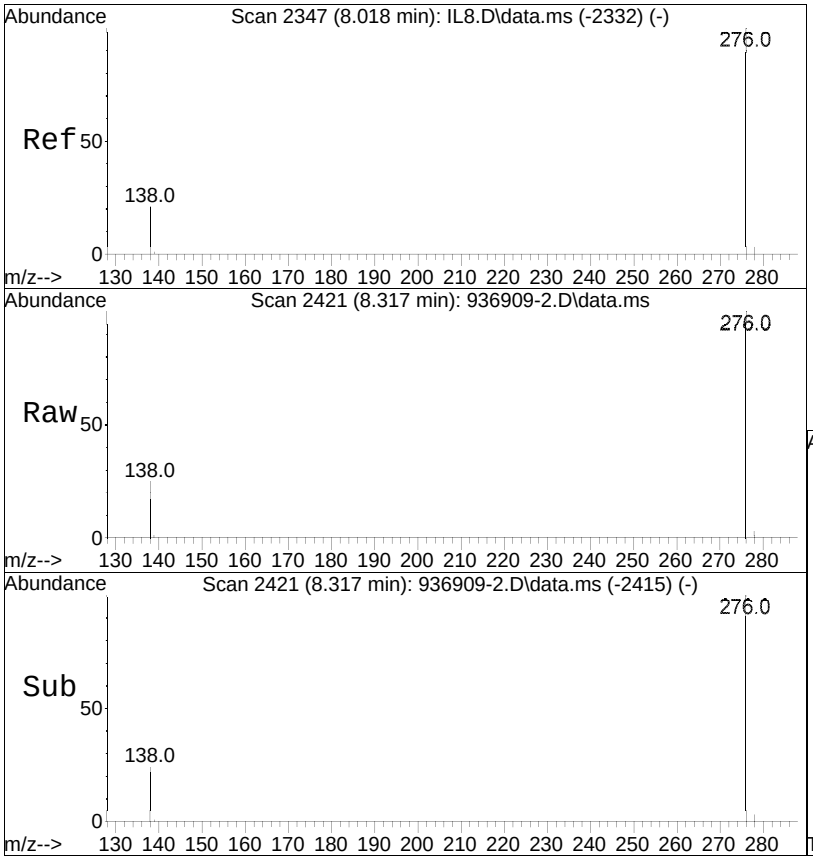


#40
Benzo[a]pyrene
Concen: 1540.98 ng/ml
RT: 7.142 min Scan# 2046
Delta R.T. -0.059 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:252 Resp: 698714

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

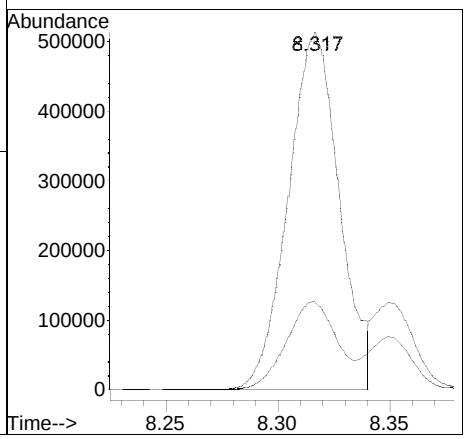


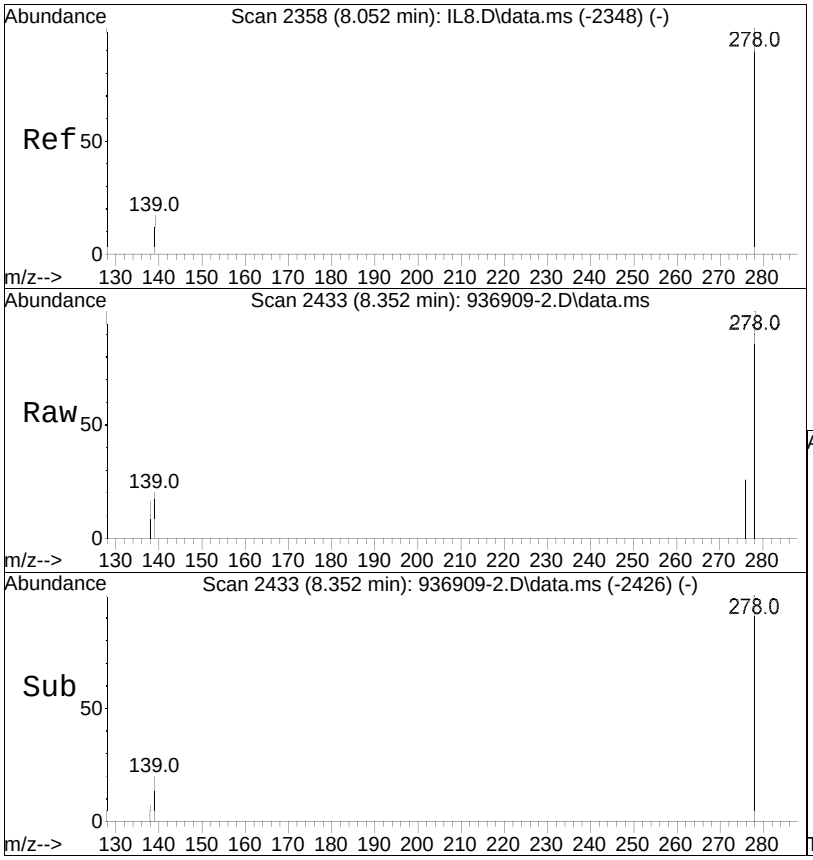


#41
Indeno[1,2,3-cd]pyrene
Concen: 1795.41 ng/ml
RT: 8.317 min Scan# 2421
Delta R.T. -0.061 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:276 Resp: 810924

Ion	Ratio	Lower	Upper
276	100		
138	24.6	16.2	24.4#

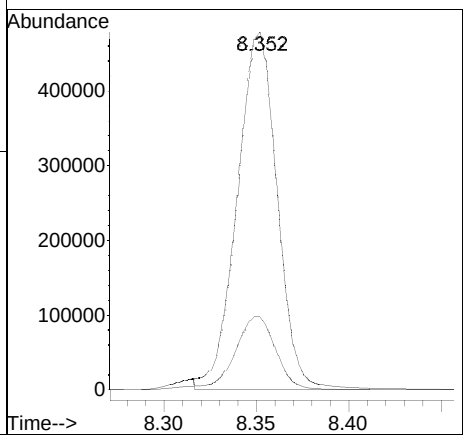


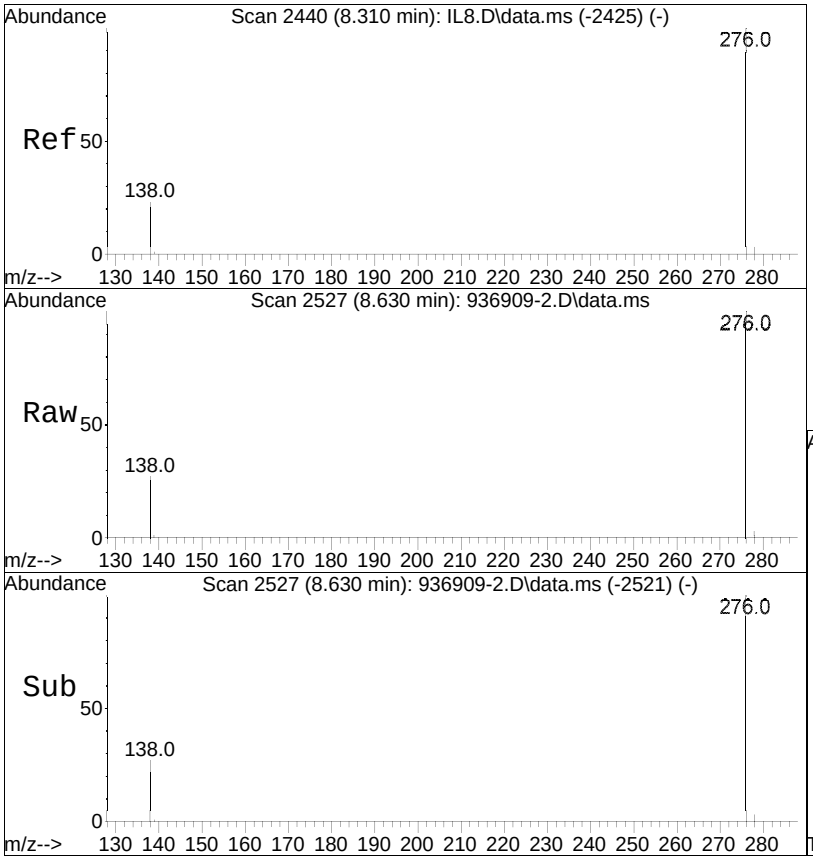


#42
Dibenzo[a,h]anthracene
Concen: 1709.81 ng/ml M6
RT: 8.352 min Scan# 2433
Delta R.T. -0.058 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:278 Resp: 715893

Ion	Ratio	Lower	Upper
278	100		
139	21.2	14.5	21.7

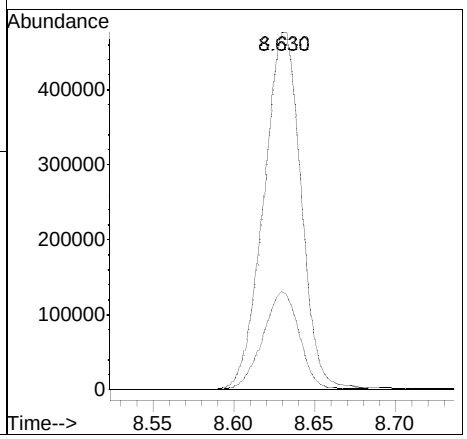




#43
Benzo[g,h,i]perylene
Concen: 1665.50 ng/ml
RT: 8.630 min Scan# 2527
Delta R.T. -0.061 min
Lab File: 936909-2.D
Acq: 20 Jun 2024 08:54 pm

Tgt Ion:276 Resp: 757086

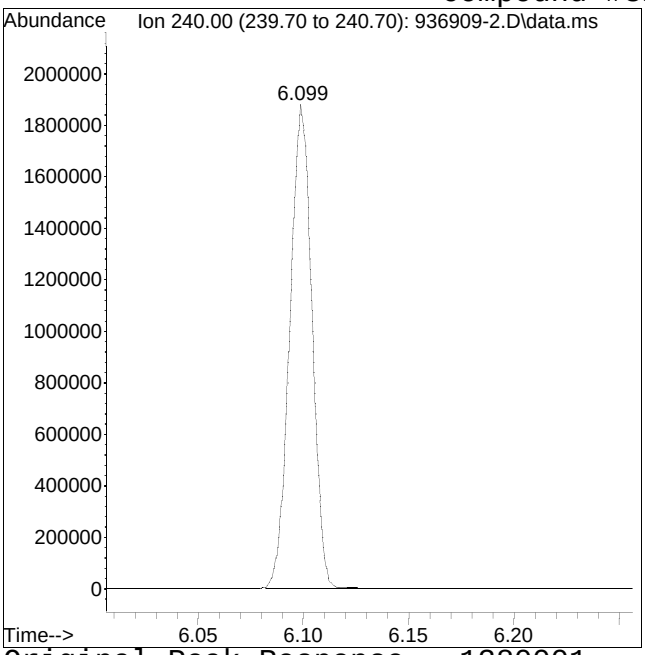
Ion	Ratio	Lower	Upper
276	100		
138	27.1	18.5	27.7



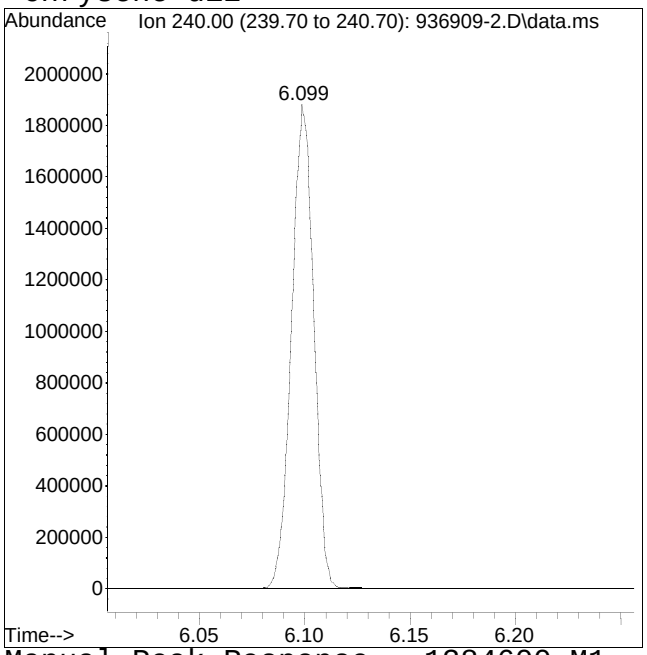
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-2.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 8:54 pm Instrument : SV125
Sample : WG1936909-2,32,,rp Quant Date : 6/20/2024 9:08 pm

Compound #32: Chrysene-d12



Original Peak Response = 1380001



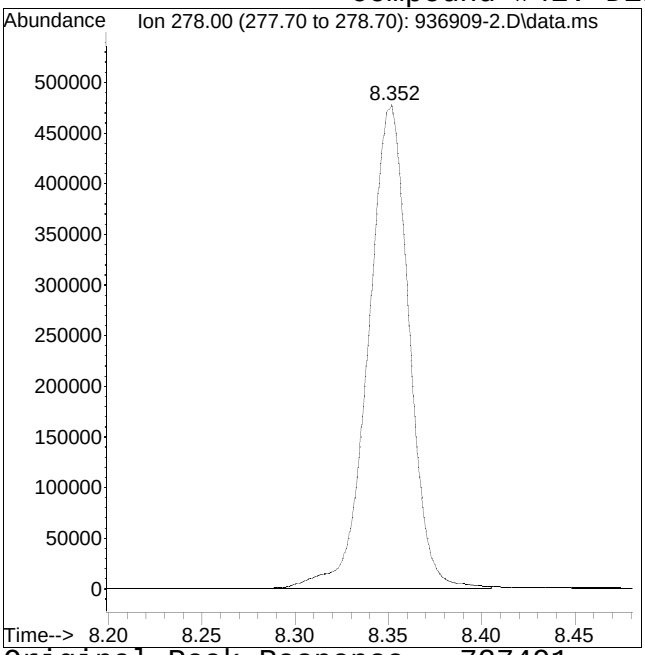
Manual Peak Response = 1384600 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

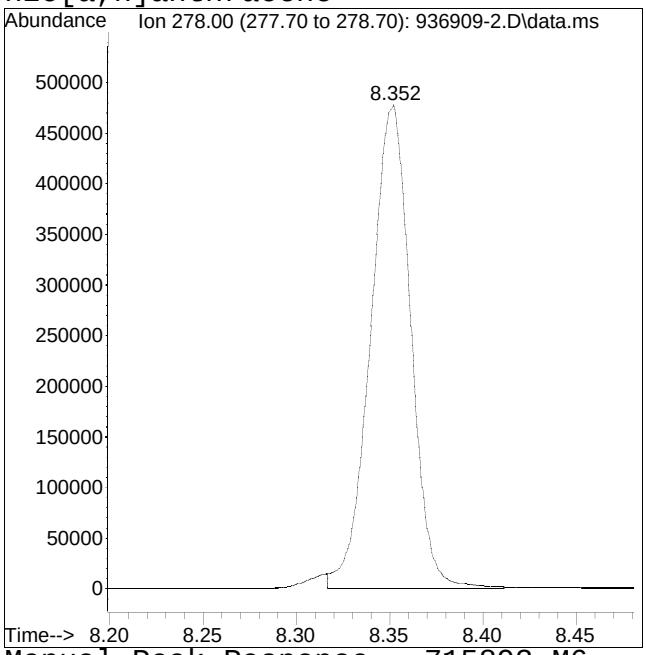
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-2.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 8:54 pm Instrument : SV125
Sample : WG1936909-2,32,,rp Quant Date : 6/20/2024 9:08 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 727491



Manual Peak Response = 715893 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-2.D
Acq On : 21 Jun 2024 12:38 pm
Operator : SV125:rp
Sample : WG1937577-2,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 13:43:43 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.103	152	422174	4000.000	ng/ml	0.01
Standard Area 1 = 338769			Recovery = 124.62%			
9) Naphthalene-d8	2.768	136	1745193	4000.000	ng/ml	0.00
Standard Area 1 = 1307715			Recovery = 133.45%			
18) Acenaphthene-d10	3.746	164	1014231	4000.000	ng/ml	0.00
Standard Area 1 = 748769			Recovery = 135.45%			
23) Phenanthrene-d10	4.583	188	2117751	4000.000	ng/ml	0.00
Standard Area 1 = 1544907			Recovery = 137.08%			
32) Chrysene-d12	6.098	240	1596879M2	4000.000	ng/ml	-0.08
Standard Area 1 = 1266561			Recovery = 126.08%			
37) Perylene-d12	7.200	264	1584509M2	4000.000	ng/ml	-0.09
Standard Area 1 = 1416293			Recovery = 111.88%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.520	112	102763	823.018	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 16.46%			
4) Phenol-d6	1.923	99	105300	728.436	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.57%#			
8) Nitrobenzene-d5	2.385	82	106941	913.246	ng/ml	0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 36.53%			
14) 2-Fluorobiphenyl	3.370	172	270599	675.251	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 27.01%#			
22) 2,4,6-Tribromophenol	4.192	330	66438	1174.304	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 23.49%			
31) 4-Terphenyl-d14	5.491	244	299263	691.564	ng/ml	-0.03
Spiked Amount 2500.000	Range 30 - 130		Recovery = 27.66%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.969	93	198086	1537.692	ng/ml	95
6) n-nitrosodi-n-propylamine	2.308	70	153905	1850.874	ng/ml	97
7) Hexachloroethane	2.362	117	69961	1221.842	ng/ml	98
10) Naphthalene	2.777	128	614107	1260.411	ng/ml#	99
11) Hexachlorobutadiene	2.854	225	92874	1000.311	ng/ml	100
12) 2-Methylnaphthalene	3.162	142	436047	1397.110	ng/ml	99
13) 1-Methylnaphthalene	3.217	142	402996	1363.931	ng/ml	98
15) 2-Chloronaphthalene	3.431	162	439099	1264.882	ng/ml	90
16) 2,6-Dinitrotoluene	3.630	165	123583	1503.041	ng/ml	94
17) Acenaphthylene	3.663	152	730268	1414.019	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-2.D
Acq On : 21 Jun 2024 12:38 pm
Operator : SV125:rp
Sample : WG1937577-2,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 13:43:43 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.764	153	488537	1408.864	ng/ml	98
20) 2,4-Dinitrotoluene	3.855	165	169963	1527.857	ng/ml	93
21) Fluorene	4.054	166	562816	1418.256	ng/ml	99
24) 4,6-Dinitro-o-cresol	4.085	198	49900	959.010	ng/ml	94
25) Hexachlorobenzene	4.367	284	180604	1232.431	ng/ml	95
26) Pentachlorophenol	4.483	266	54438	719.674	ng/ml	100
27) Phenanthrene	4.595	178	850380	1388.630	ng/ml	100
28) Anthracene	4.622	178	886019	1497.744	ng/ml	100
29) Fluoranthene	5.267	202	1044179	1470.413	ng/ml	98
30) Pyrene	5.395	202	1064700	1433.939	ng/ml	99
33) Benzo[a]anthracene	6.093	228	923812M3	1446.954	ng/ml	
34) 3,3'-Dichlorobenzene	6.082	252	380454M4	1422.924	ng/ml	
35) Chrysene	6.114	228	856059M3	1501.062	ng/ml	
36) Bis(2-ethylhexyl)phtha...	6.122	149	740890M1	1745.356	ng/ml	
38) Benzo[b]fluoranthene	6.861	252	824790M3	1495.367	ng/ml	
39) Benzo[k]fluoranthene	6.883	252	818581M4	1591.200	ng/ml	
40) Benzo[a]pyrene	7.144	252	762459M3	1667.046	ng/ml	
41) Indeno[1,2,3-cd]pyrene	8.316	276	758674M2	1665.217	ng/ml	
42) Dibenzo[a,h]anthracene	8.351	278	677020M2	1603.001	ng/ml	
43) Benzo[g,h,i]perylene	8.632	276	707413M2	1542.784	ng/ml	

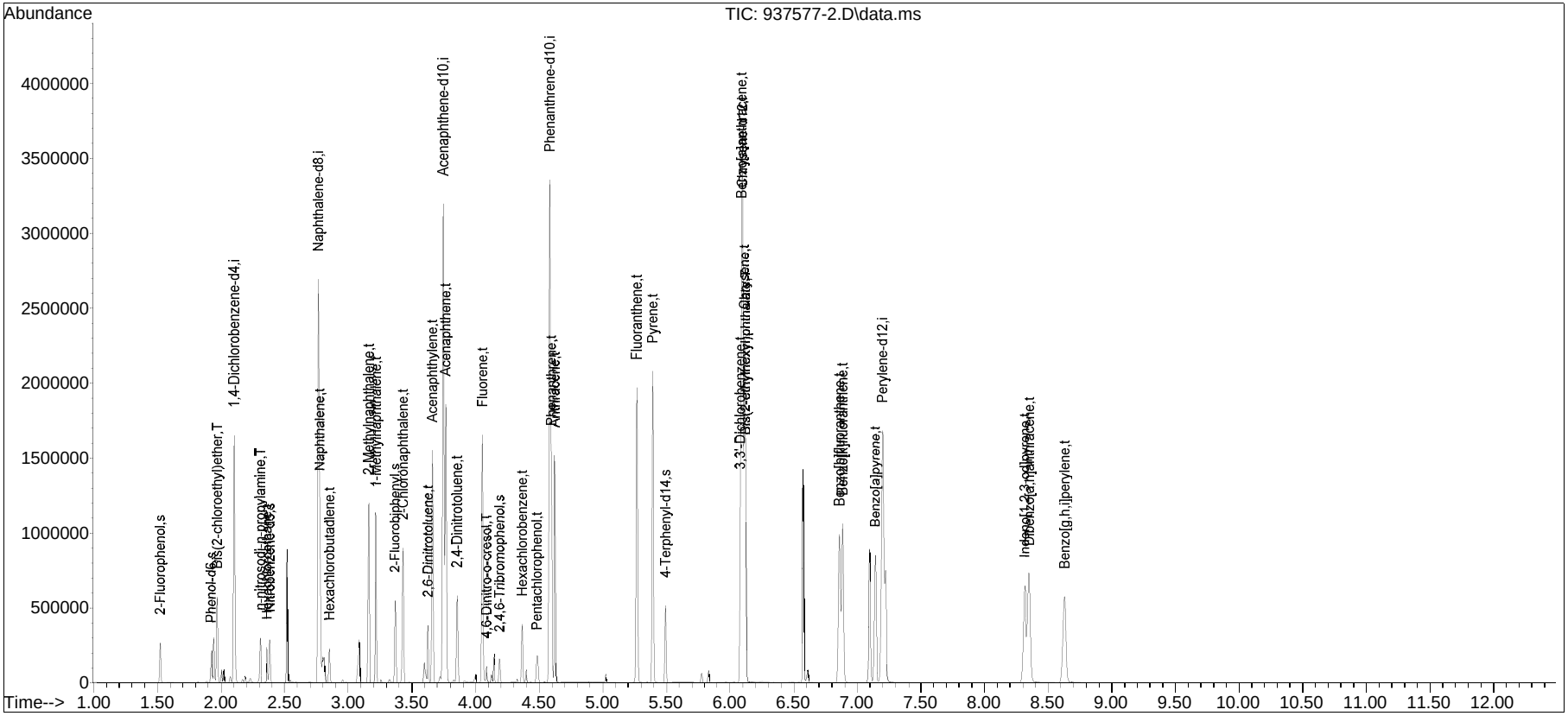
(#) = qualifier out of range (m) = manual integration (+) = signals summed

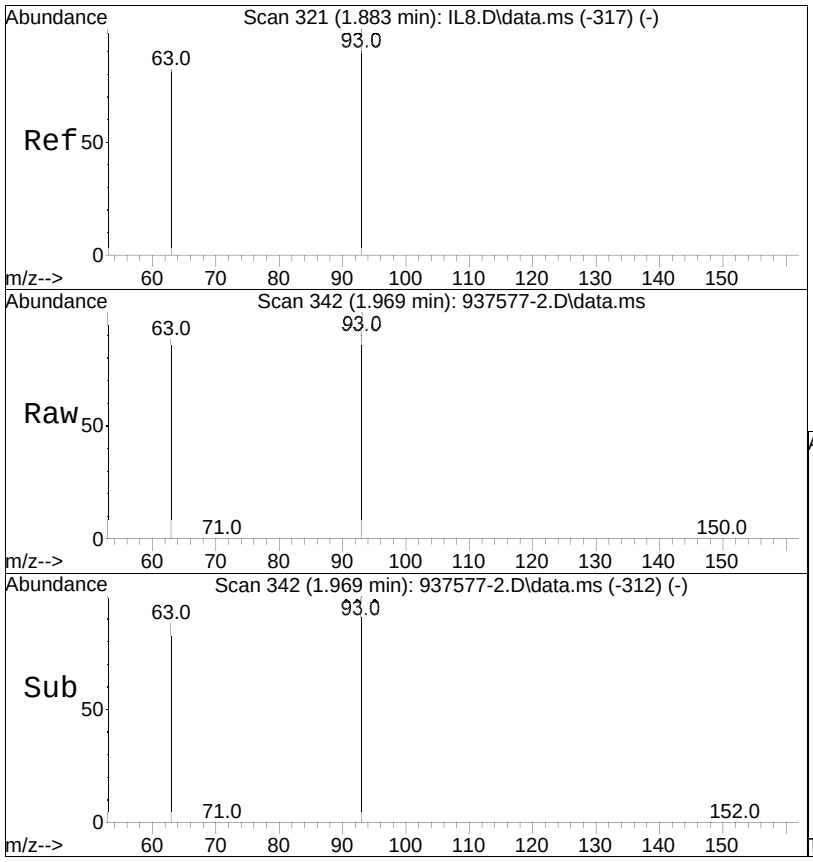
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-2.D
Acq On : 21 Jun 2024 12:38 pm
Operator : SV125:rp
Sample : WG1937577-2,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 13:43:43 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0621.D•

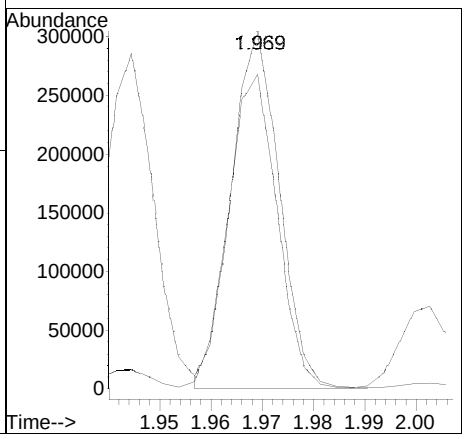


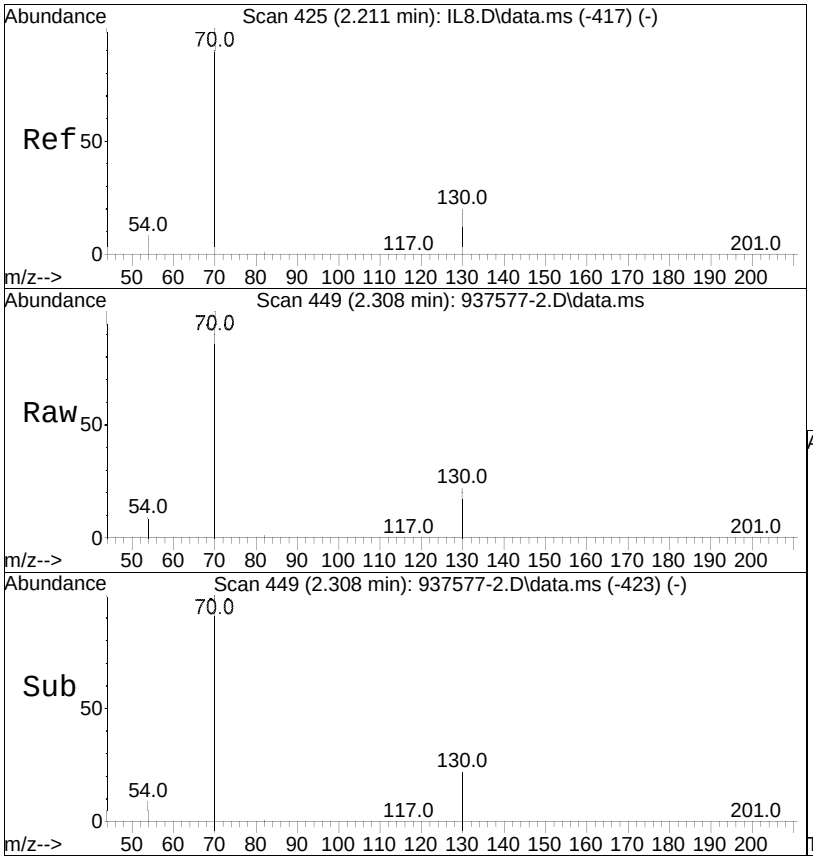


#5
Bis(2-chloroethyl)ether
Concen: 1537.69 ng/ml
RT: 1.969 min Scan# 342
Delta R.T. 0.012 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion: 93 Resp: 198086

Ion	Ratio	Lower	Upper
93	100		
63	89.5	67.7	101.5

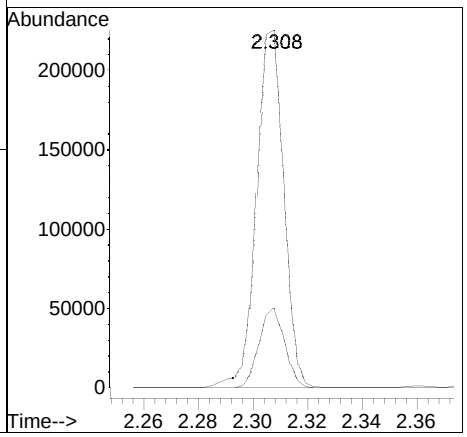


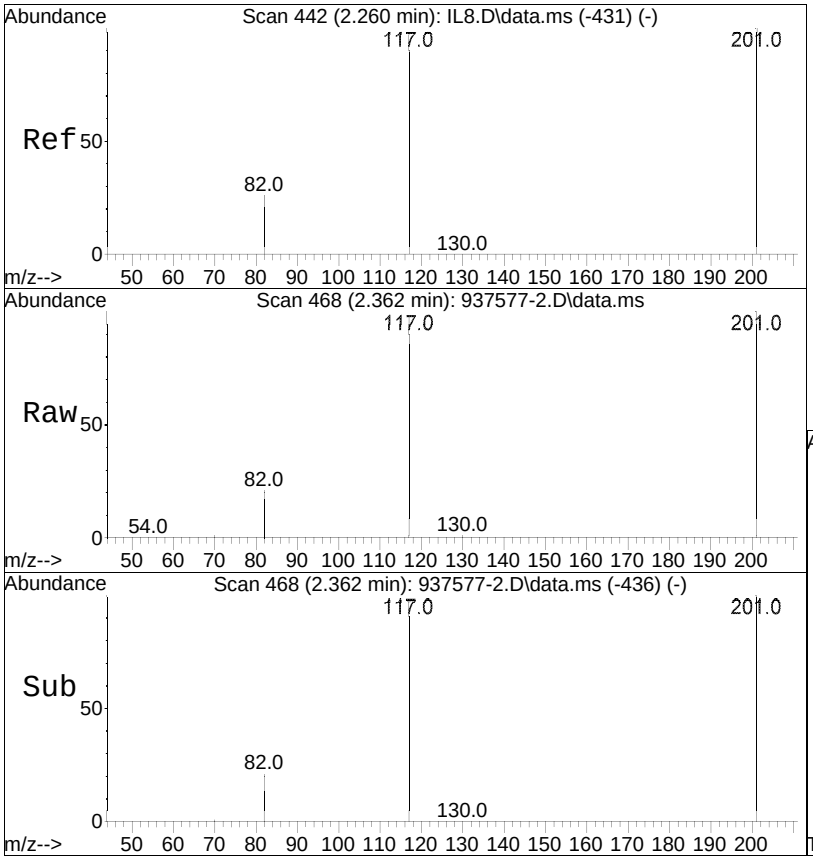


#6
n-nitrosodi-n-propylamine
Concen: 1850.87 ng/ml
RT: 2.308 min Scan# 449
Delta R.T. 0.011 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion: 70 Resp: 153905

Ion	Ratio	Lower	Upper
70	100		
130	21.1	15.7	23.5

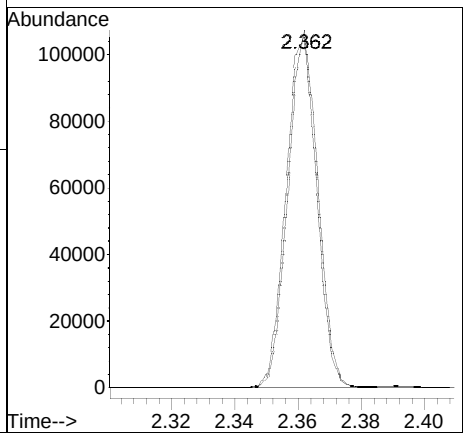


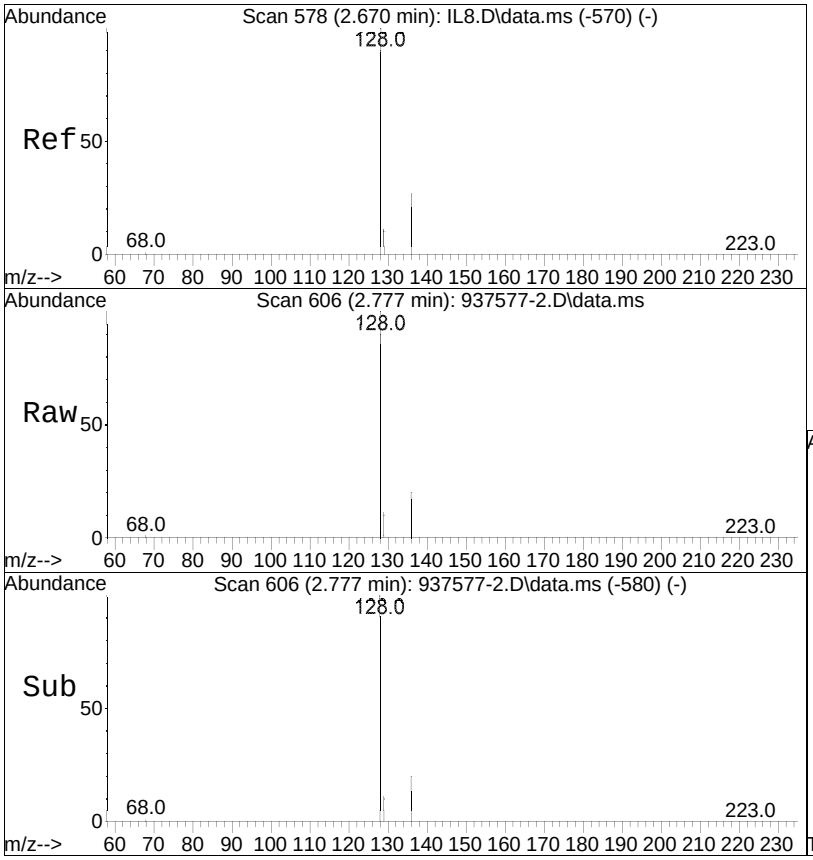


#7
Hexachloroethane
Concen: 1221.84 ng/ml
RT: 2.362 min Scan# 468
Delta R.T. 0.011 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:117 Resp: 69961

Ion	Ratio	Lower	Upper
117	100		
201	99.3	80.8	121.2

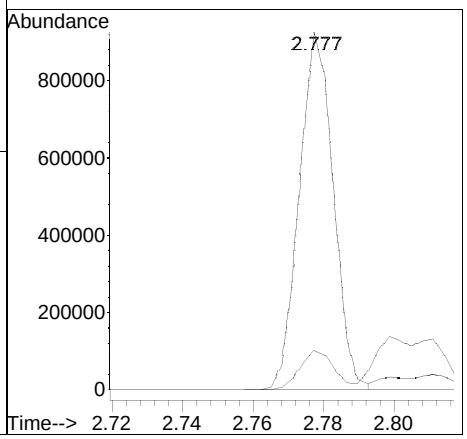


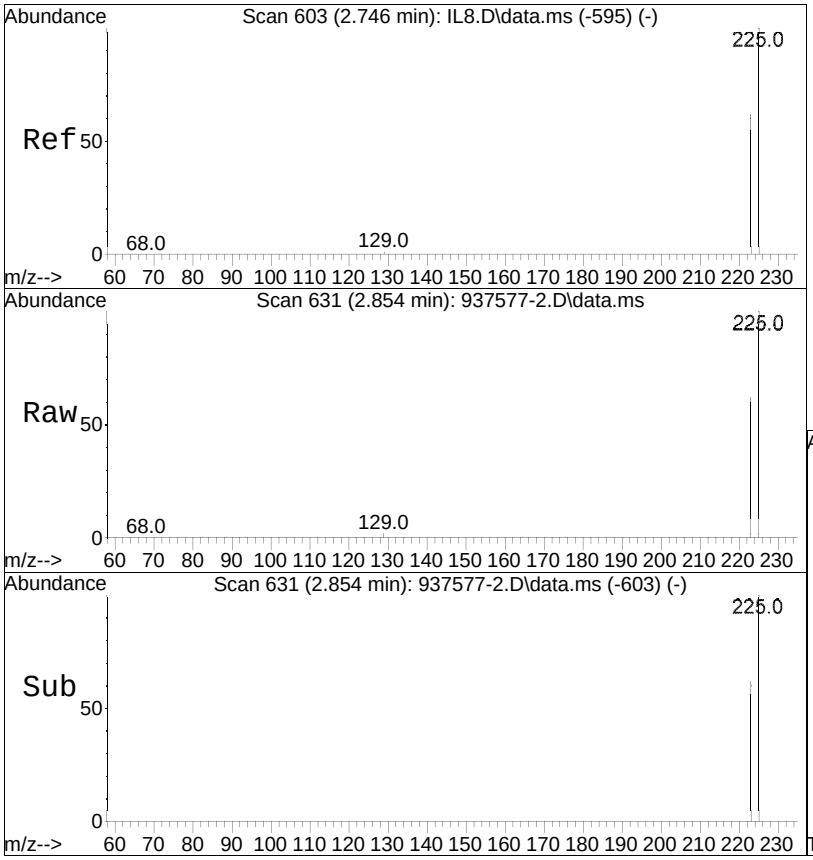


#10
Naphthalene
Concen: 1260.41 ng/ml
RT: 2.777 min Scan# 606
Delta R.T. 0.006 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:128 Resp: 614107

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	0.0	0.0	0.0

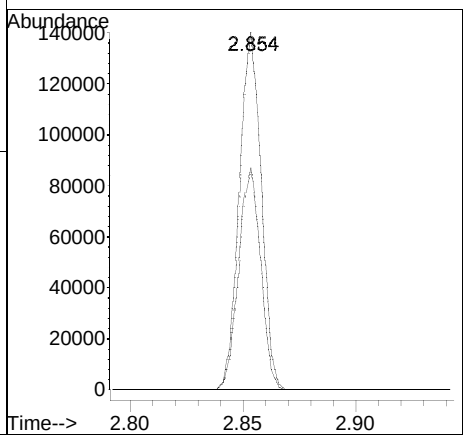


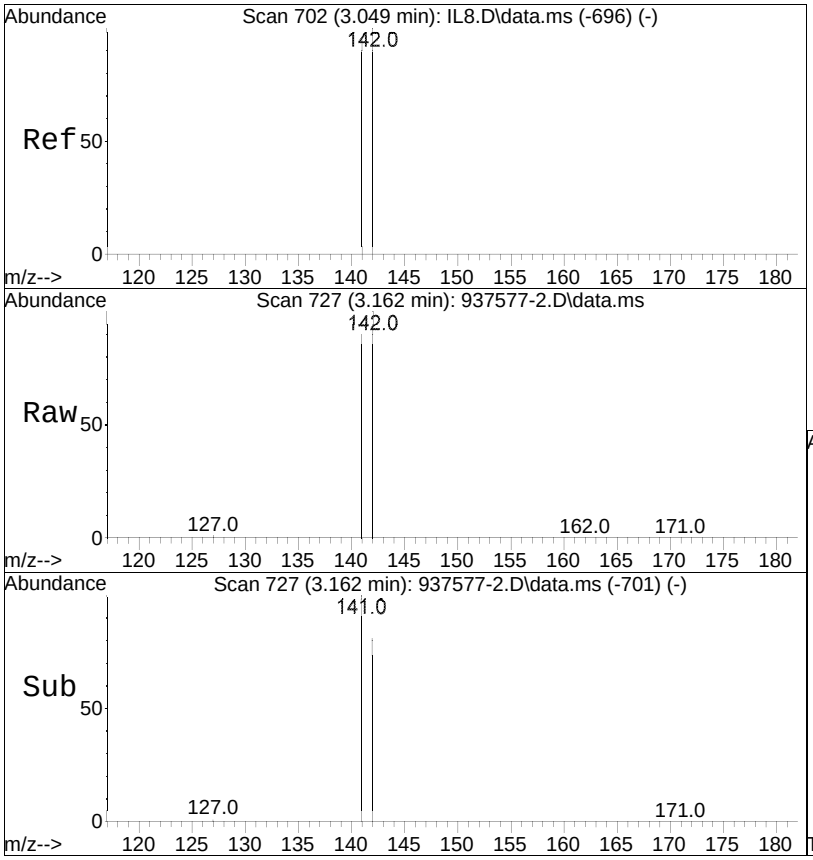


#11
Hexachlorobutadiene
Concen: 1000.31 ng/ml
RT: 2.854 min Scan# 631
Delta R.T. 0.006 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:225 Resp: 92874

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4

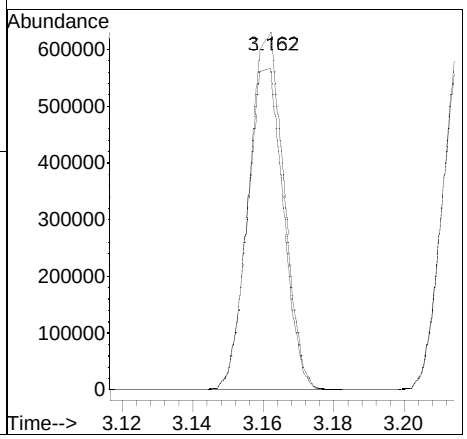


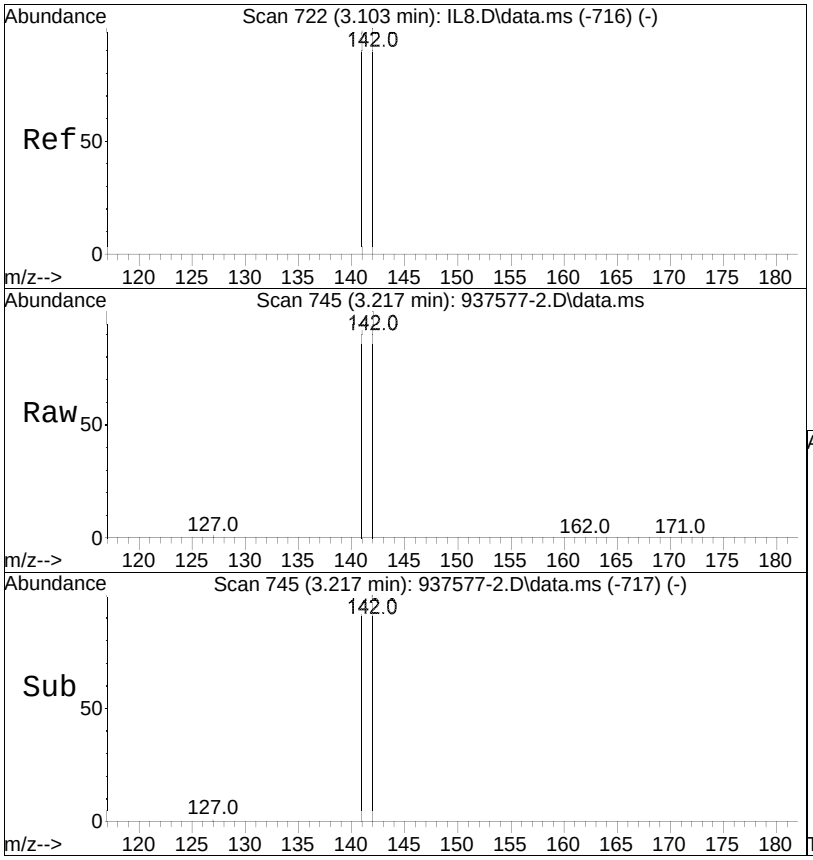


#12
2-Methylnaphthalene
Concen: 1397.11 ng/ml
RT: 3.162 min Scan# 727
Delta R.T. 0.006 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:142 Resp: 436047

Ion	Ratio	Lower	Upper
142	100		
141	91.7	74.4	111.6

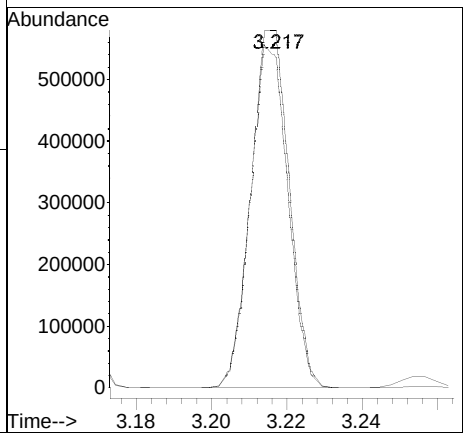


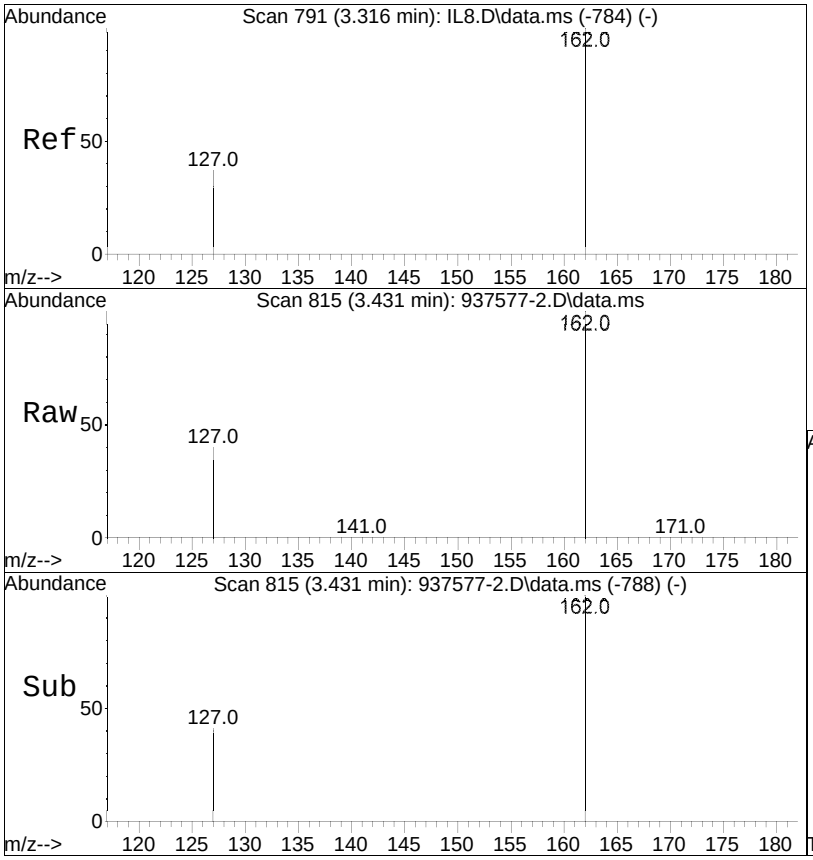


#13
1-Methylnaphthalene
Concen: 1363.93 ng/ml
RT: 3.217 min Scan# 745
Delta R.T. 0.006 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:142 Resp: 402996

Ion	Ratio	Lower	Upper
142	100		
141	94.5	77.0	115.4

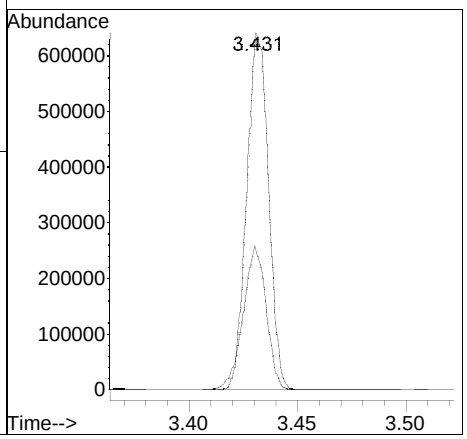


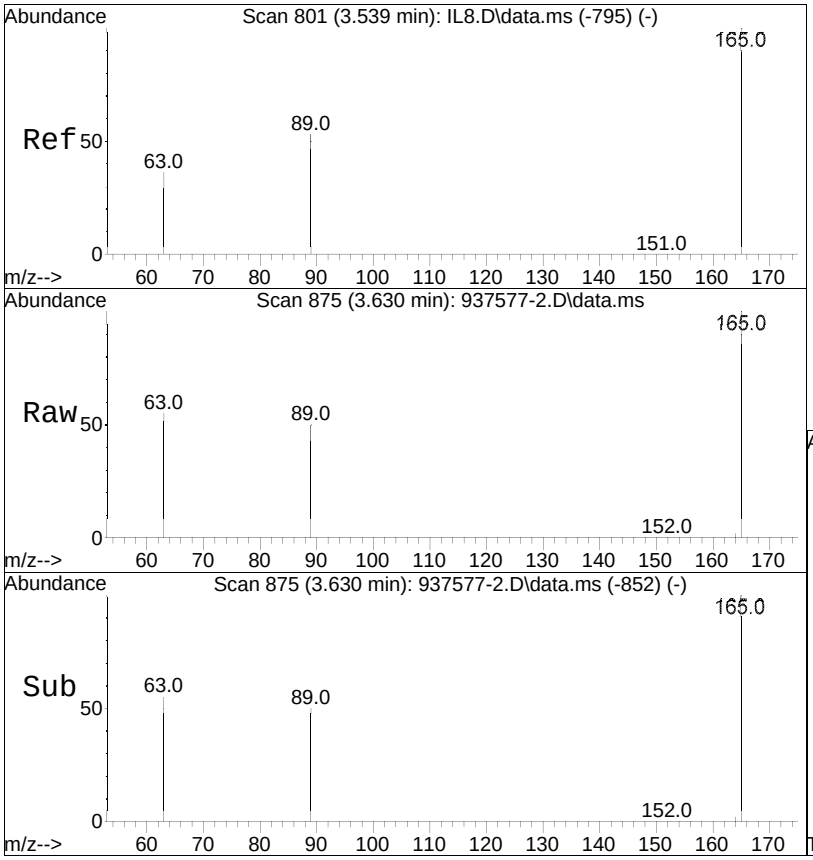


#15
2-Chloronaphthalene
Concen: 1264.88 ng/ml
RT: 3.431 min Scan# 815
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:162 Resp: 439099

Ion	Ratio	Lower	Upper
162	100		
127	42.5	29.2	43.8

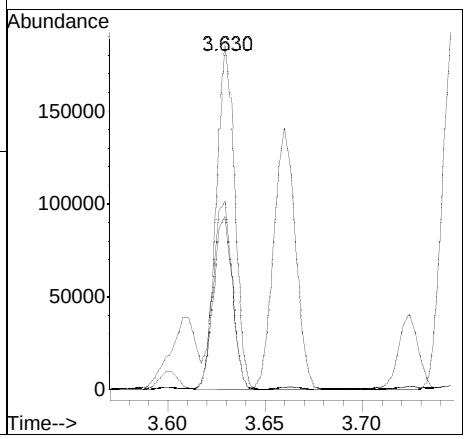


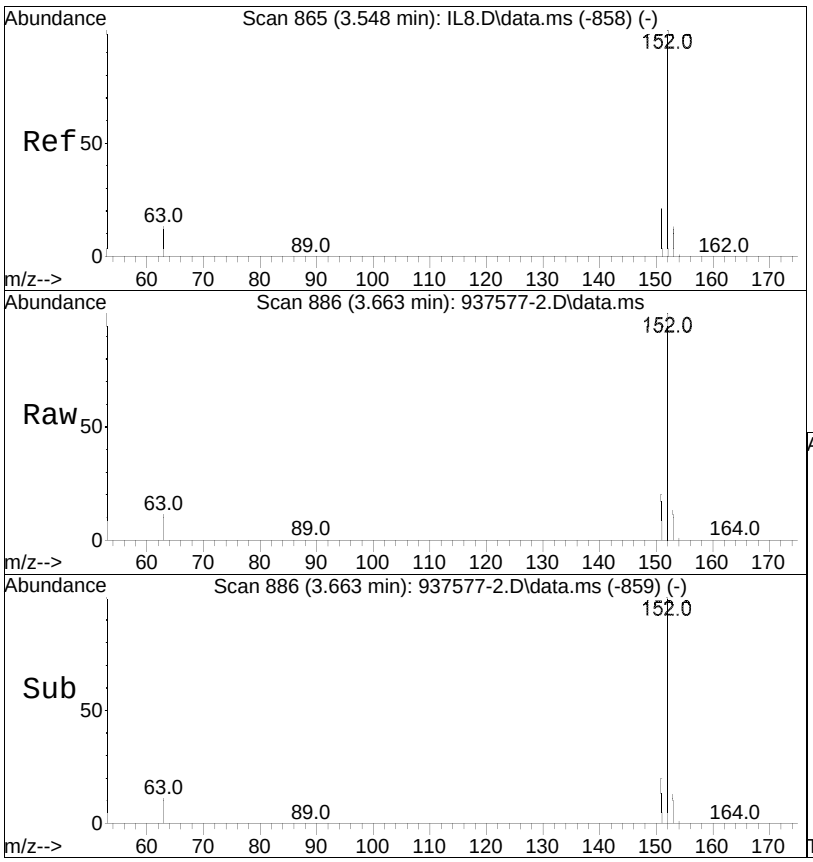


#16
2,6-Dinitrotoluene
Concen: 1503.04 ng/ml
RT: 3.630 min Scan# 875
Delta R.T. 0.006 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:165 Resp: 123583

Ion	Ratio	Lower	Upper
165	100		
89	51.6	46.2	69.2
63	56.0	47.5	71.3

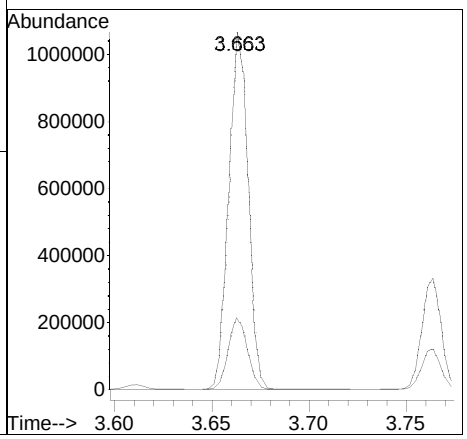


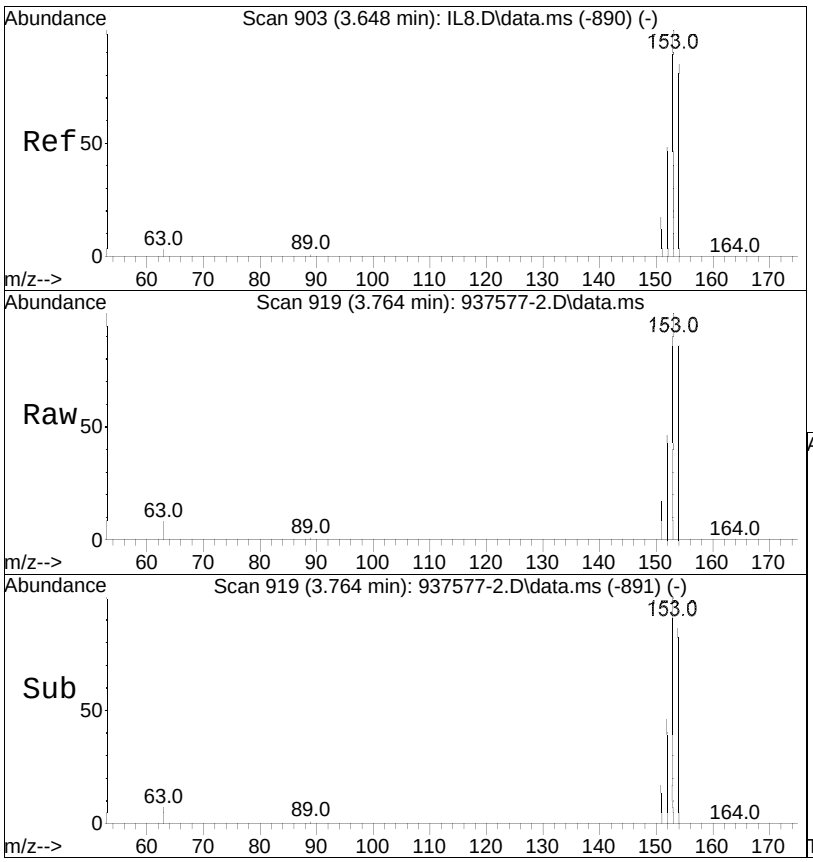


#17
Acenaphthylene
Concen: 1414.02 ng/ml
RT: 3.663 min Scan# 886
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:152 Resp: 730268

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6

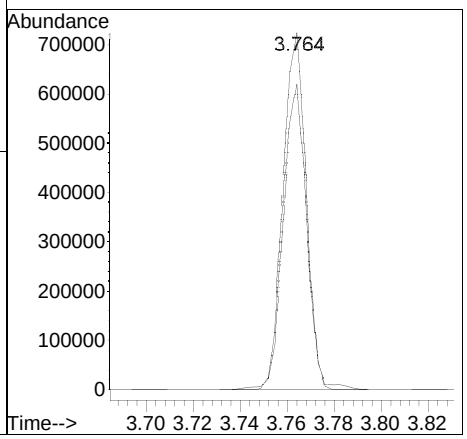


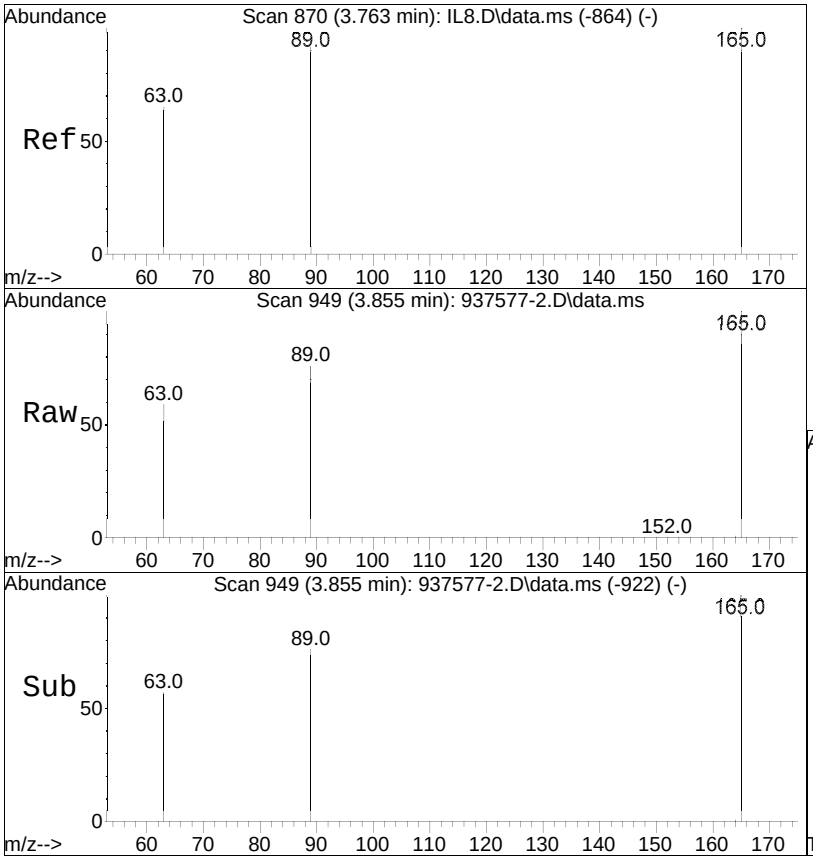


#19
Acenaphthene
Concen: 1408.86 ng/ml
RT: 3.764 min Scan# 919
Delta R.T. 0.006 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:153 Resp: 488537

Ion	Ratio	Lower	Upper
153	100		
154	87.2	68.4	102.6

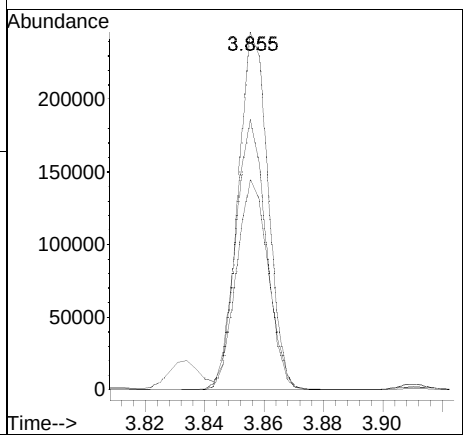


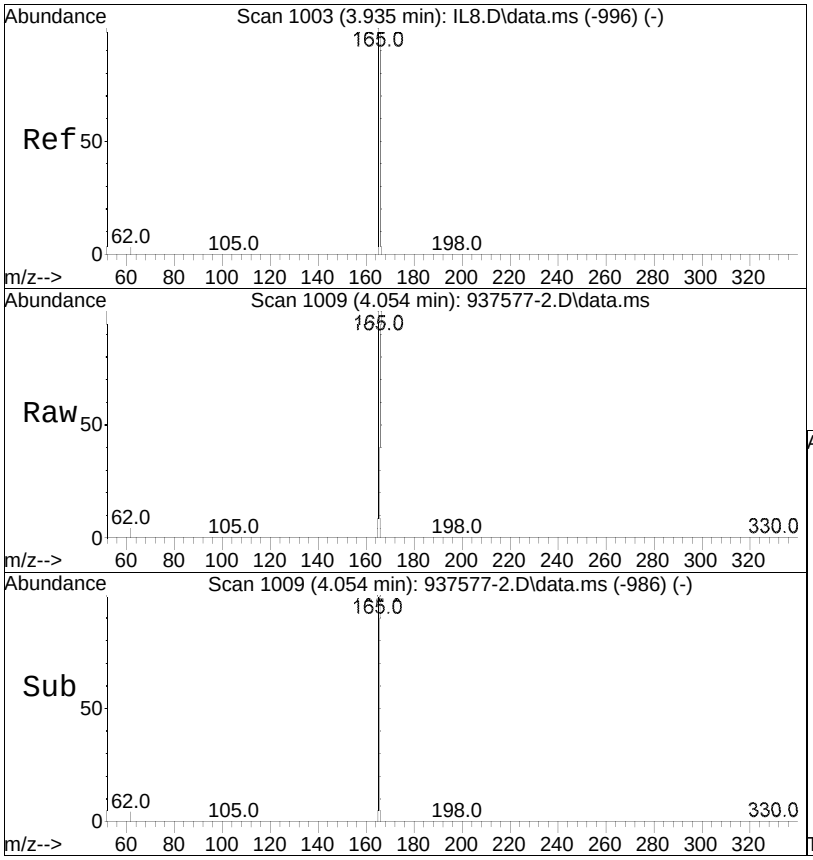


#20
2,4-Dinitrotoluene
Concen: 1527.86 ng/ml
RT: 3.855 min Scan# 949
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:165 Resp: 169963

Ion	Ratio	Lower	Upper
165	100		
89	77.0	66.8	100.2
63	63.0	54.9	82.3

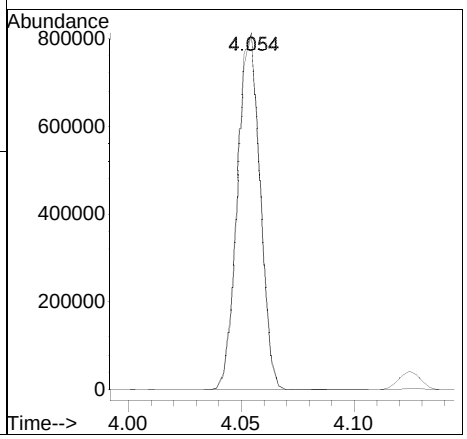


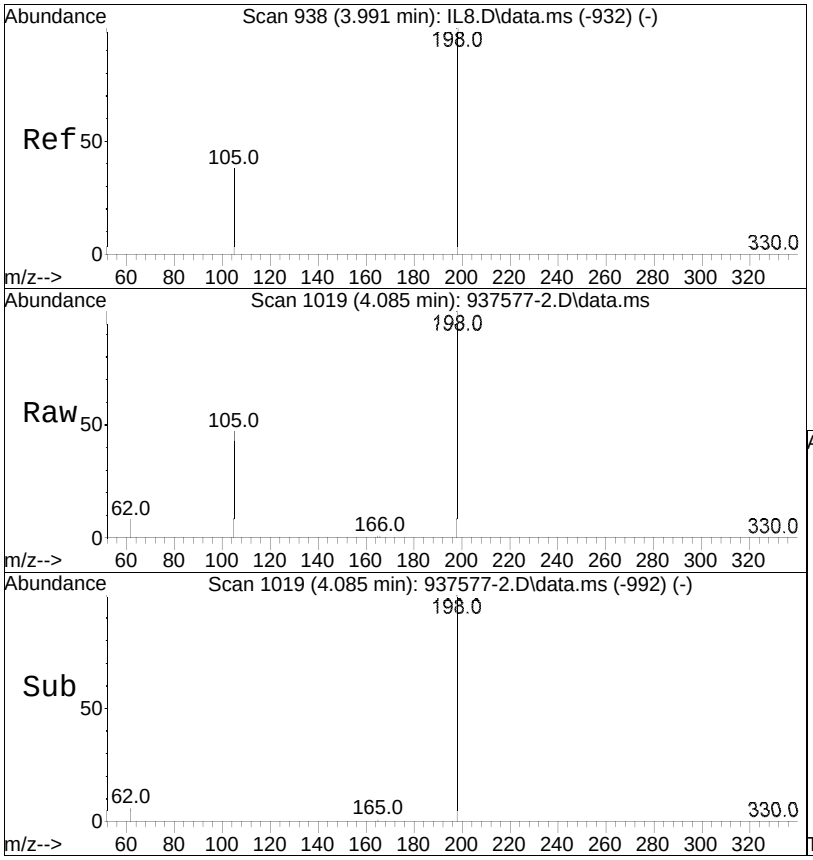


#21
Fluorene
Concen: 1418.26 ng/ml
RT: 4.054 min Scan# 1009
Delta R.T. 0.006 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:166 Resp: 562816

Ion	Ratio	Lower	Upper
166	100		
165	101.1	81.7	122.5

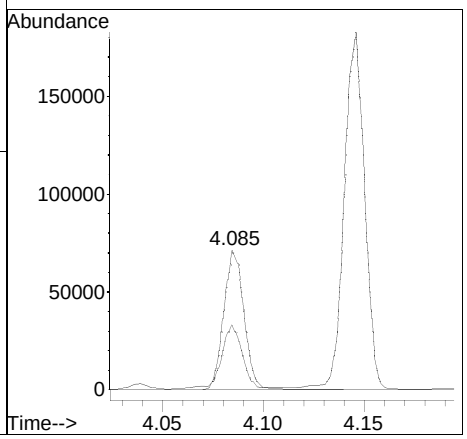


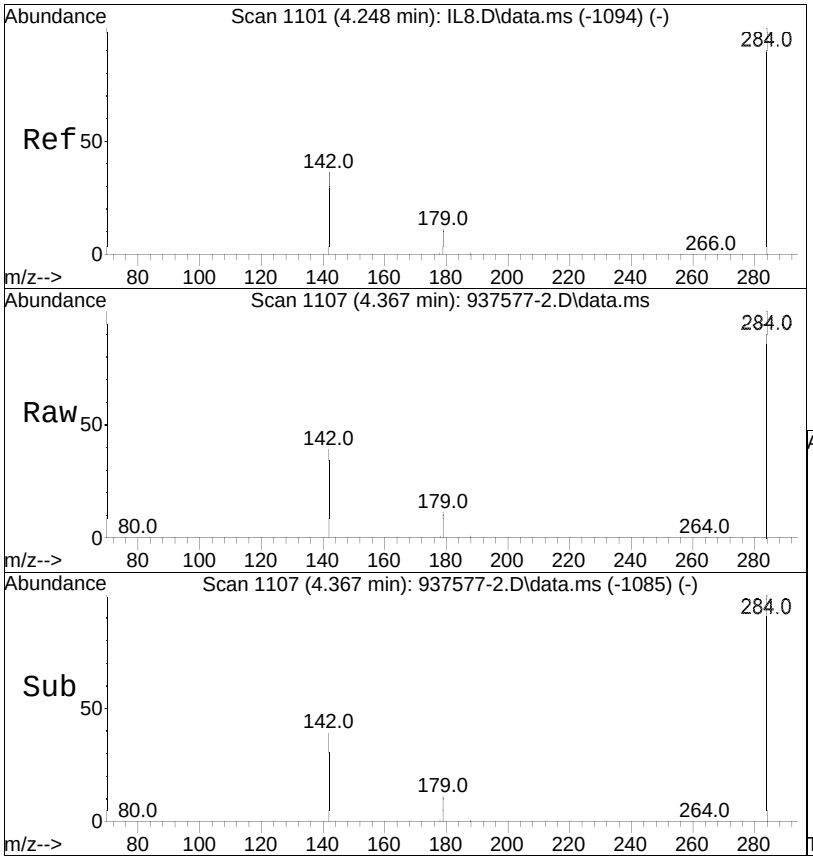


#24
4,6-Dinitro-o-cresol
Concen: 959.01 ng/ml
RT: 4.085 min Scan# 1019
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:198 Resp: 49900

Ion	Ratio	Lower	Upper
198	100		
105	48.4	35.8	53.6

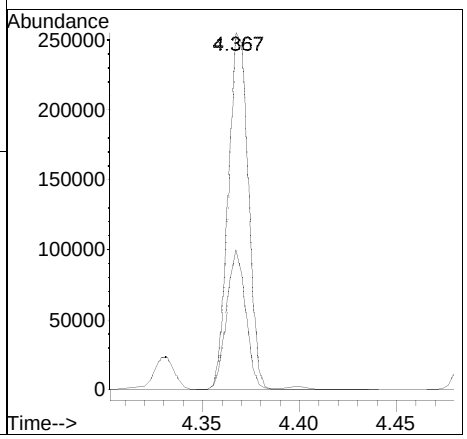


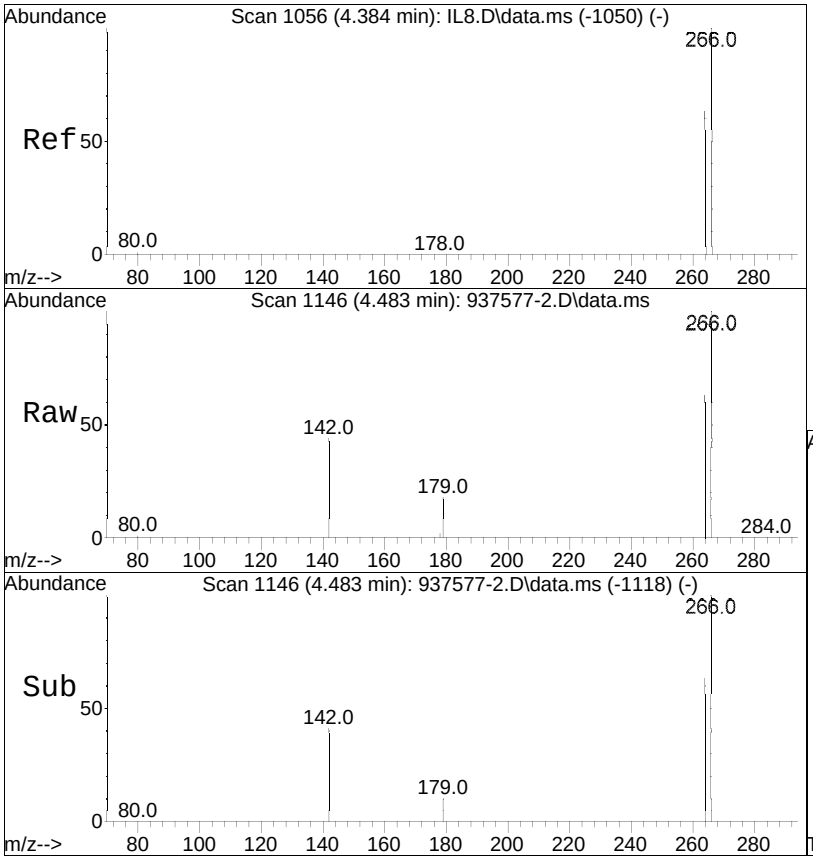


#25
Hexachlorobenzene
Concen: 1232.43 ng/ml
RT: 4.367 min Scan# 1107
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:284 Resp: 180604

Ion	Ratio	Lower	Upper
284	100		
142	37.9	28.2	42.2

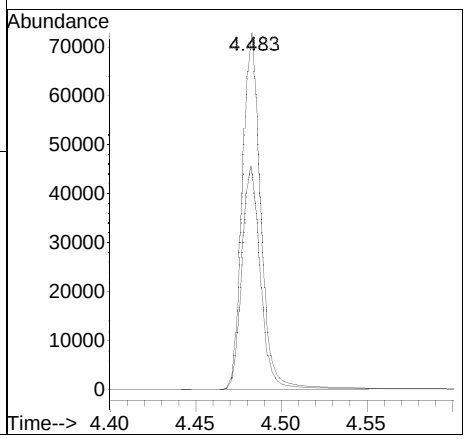


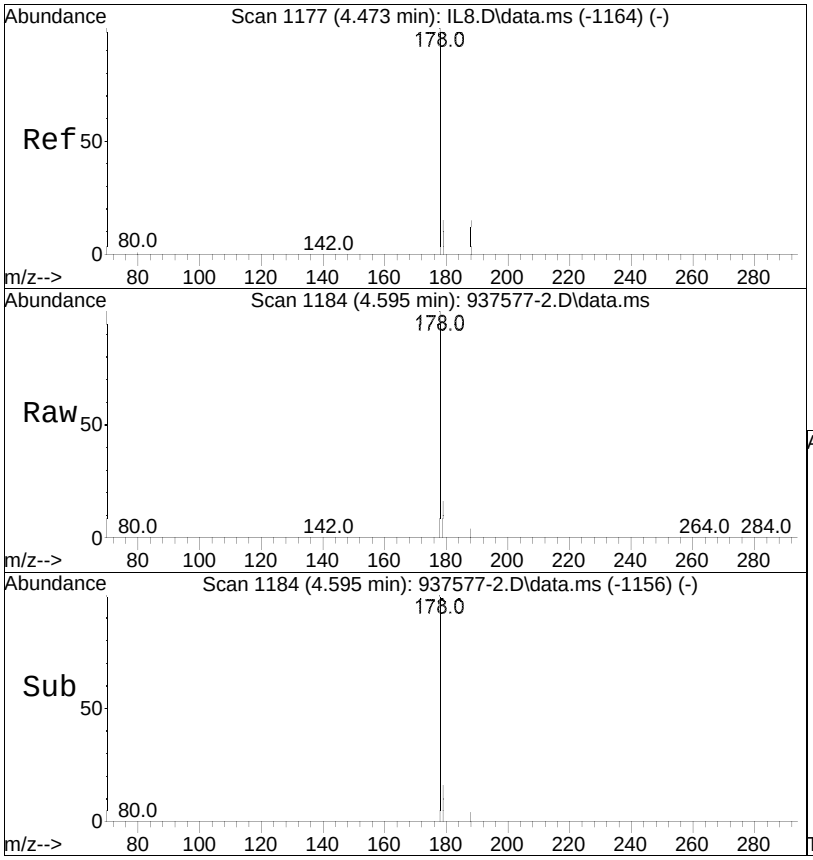


#26
Pentachlorophenol
Concen: 719.67 ng/ml
RT: 4.483 min Scan# 1146
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:266 Resp: 54438

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.6	76.0

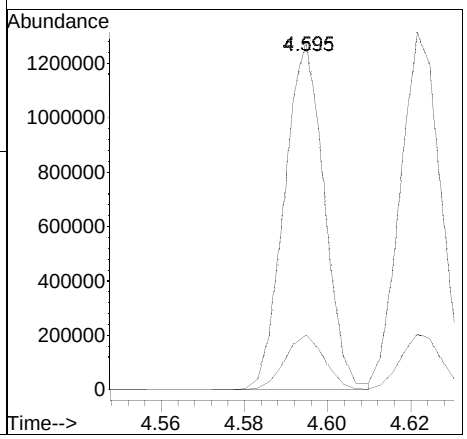


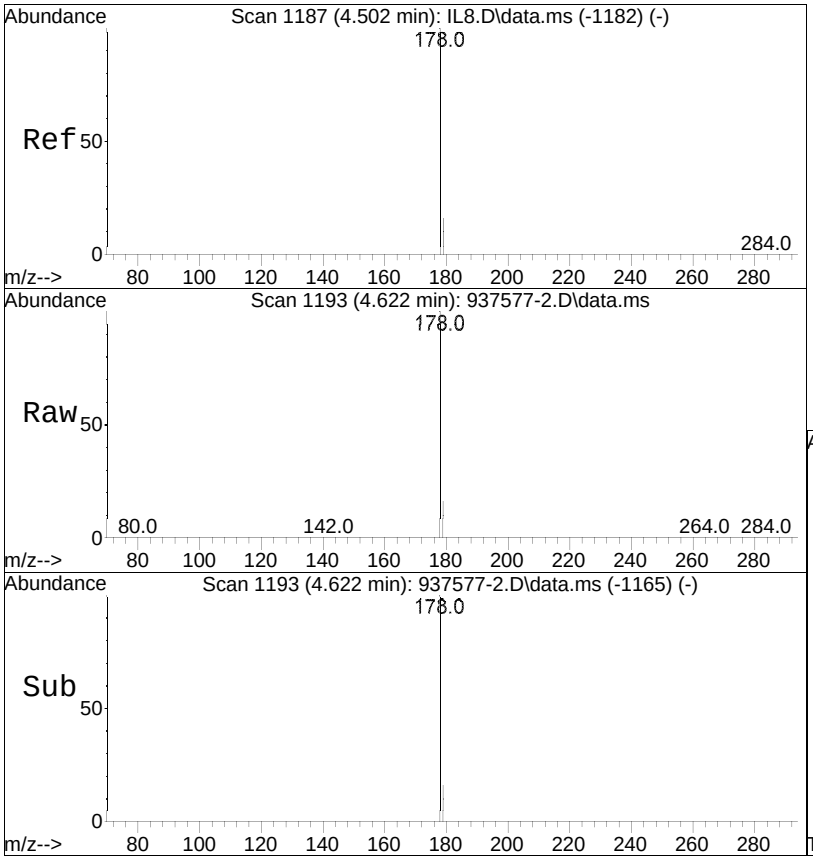


#27
Phenanthrene
Concen: 1388.63 ng/ml
RT: 4.595 min Scan# 1184
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:178 Resp: 850380

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

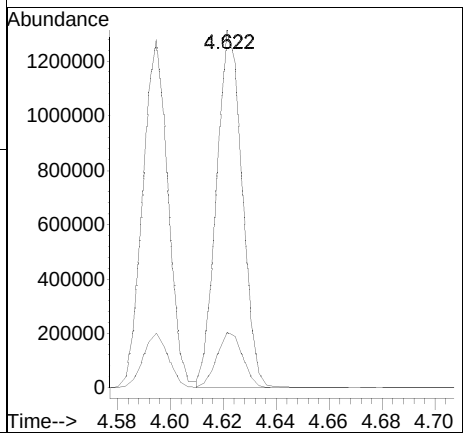


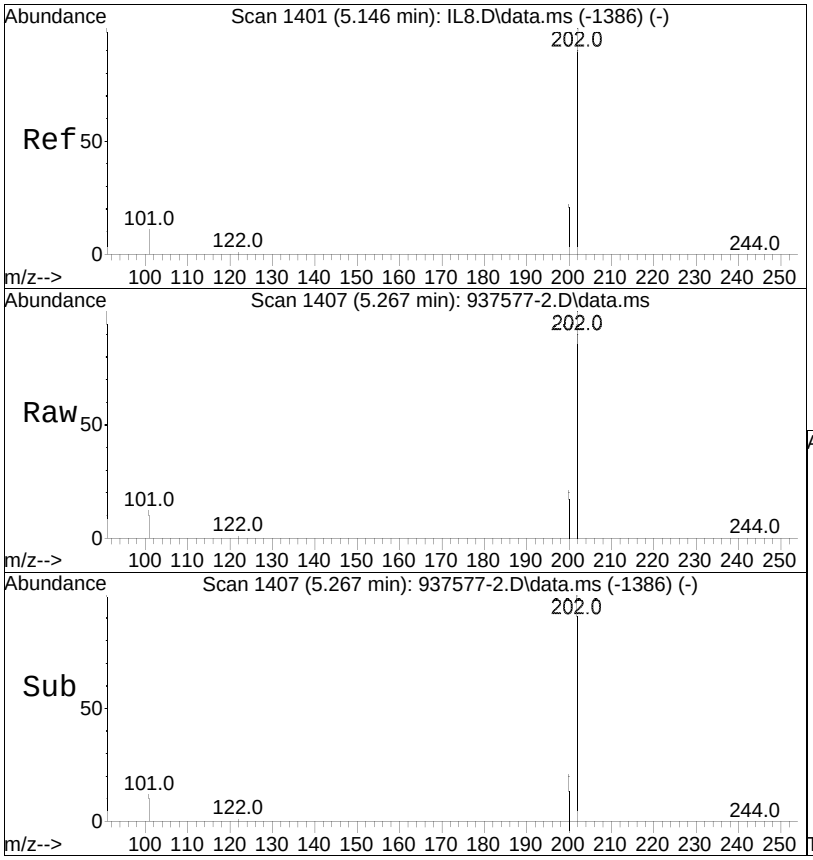


#28
Anthracene
Concen: 1497.74 ng/ml
RT: 4.622 min Scan# 1193
Delta R.T. 0.003 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:178 Resp: 886019

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

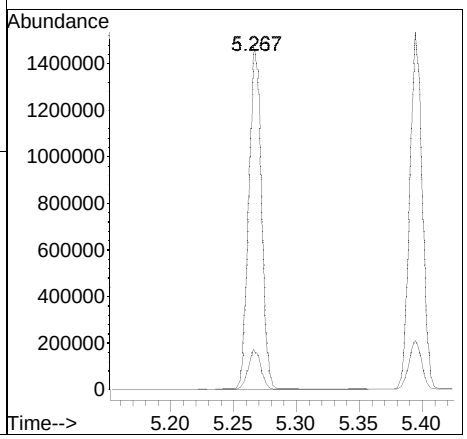


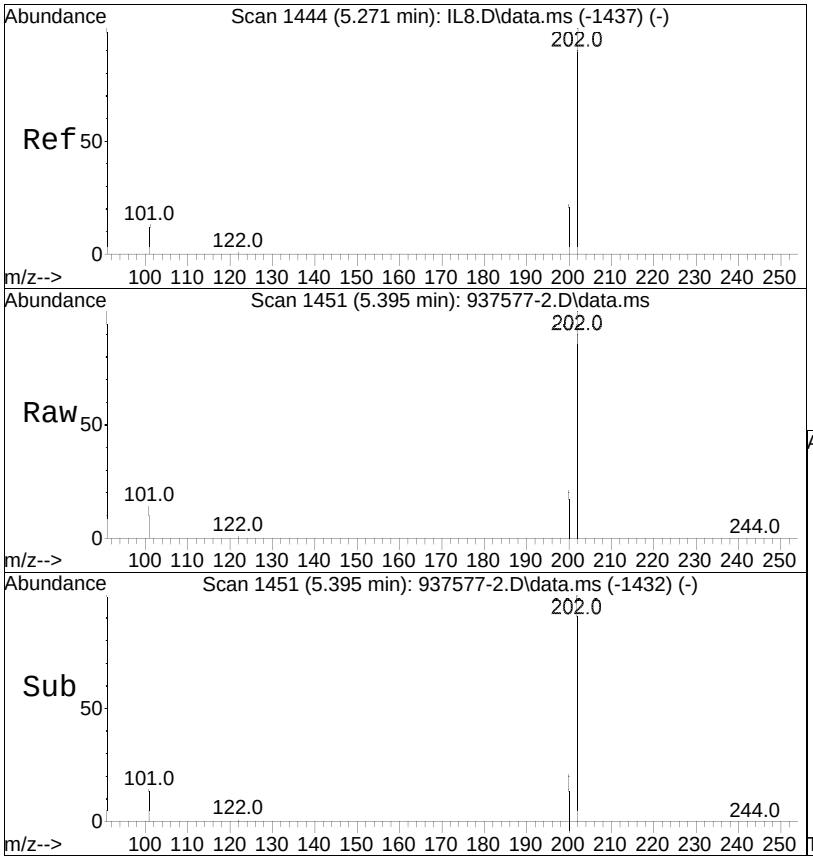


#29
Fluoranthene
Concen: 1470.41 ng/ml
RT: 5.267 min Scan# 1407
Delta R.T. -0.018 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:202 Resp: 1044179

Ion	Ratio	Lower	Upper
202	100		
101	11.6	8.7	13.1

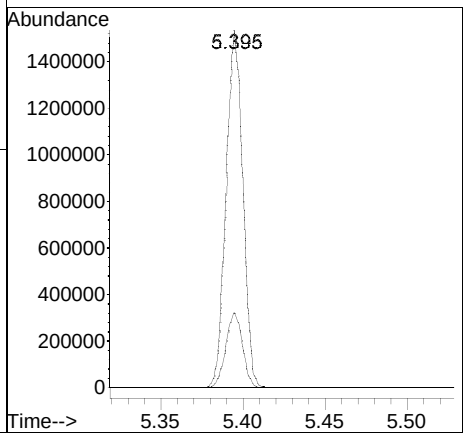


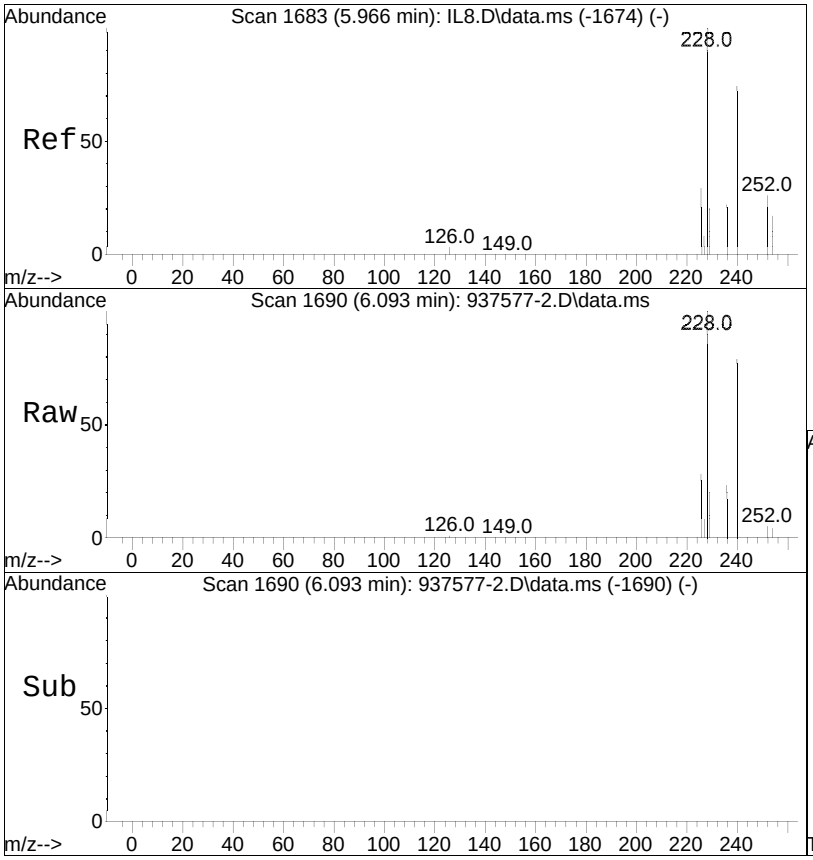


#30
Pyrene
Concen: 1433.94 ng/ml
RT: 5.395 min Scan# 1451
Delta R.T. -0.024 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:202 Resp: 1064700

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2

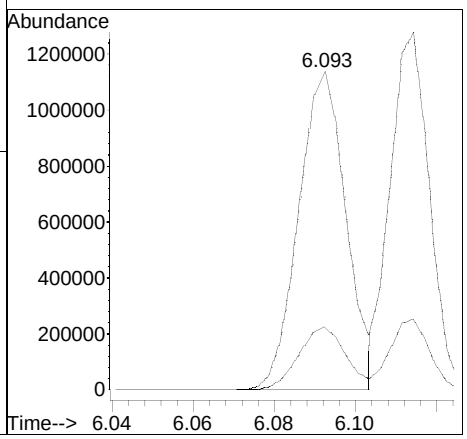


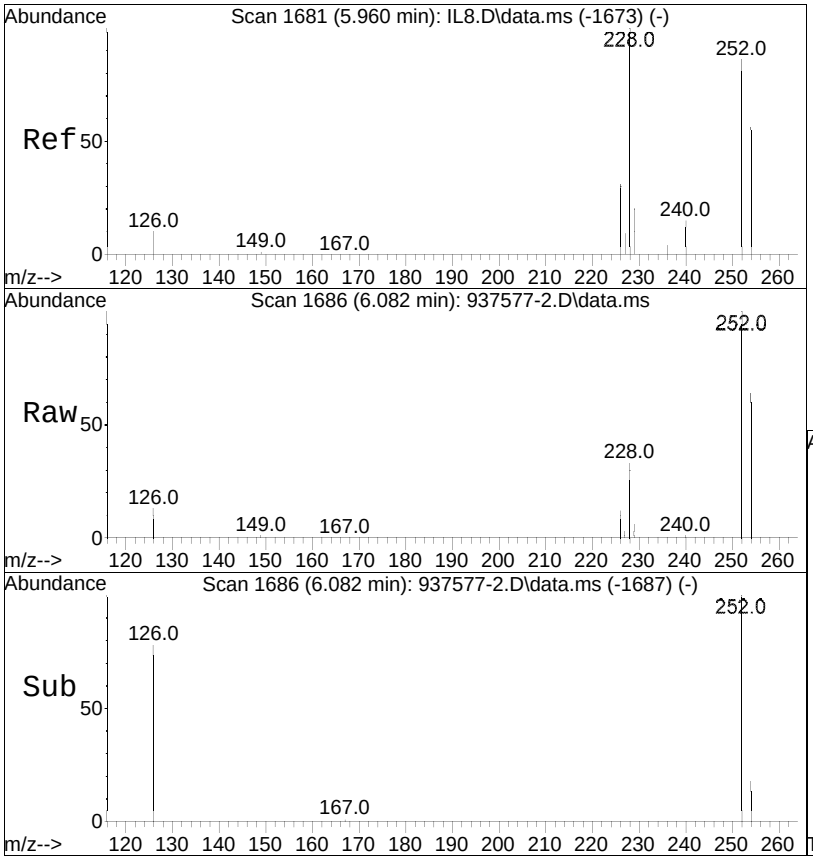


#33
Benzo[a]anthracene
Concen: 1446.95 ng/ml M3
RT: 6.093 min Scan# 1690
Delta R.T. -0.079 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:228 Resp: 923812

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

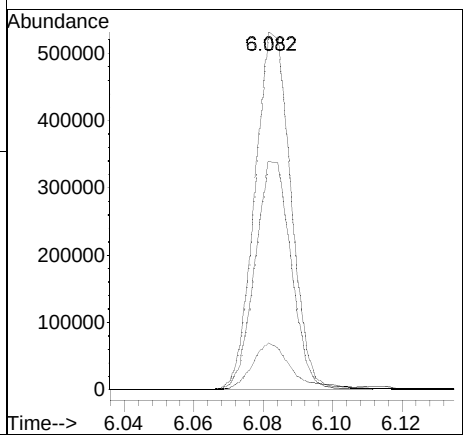


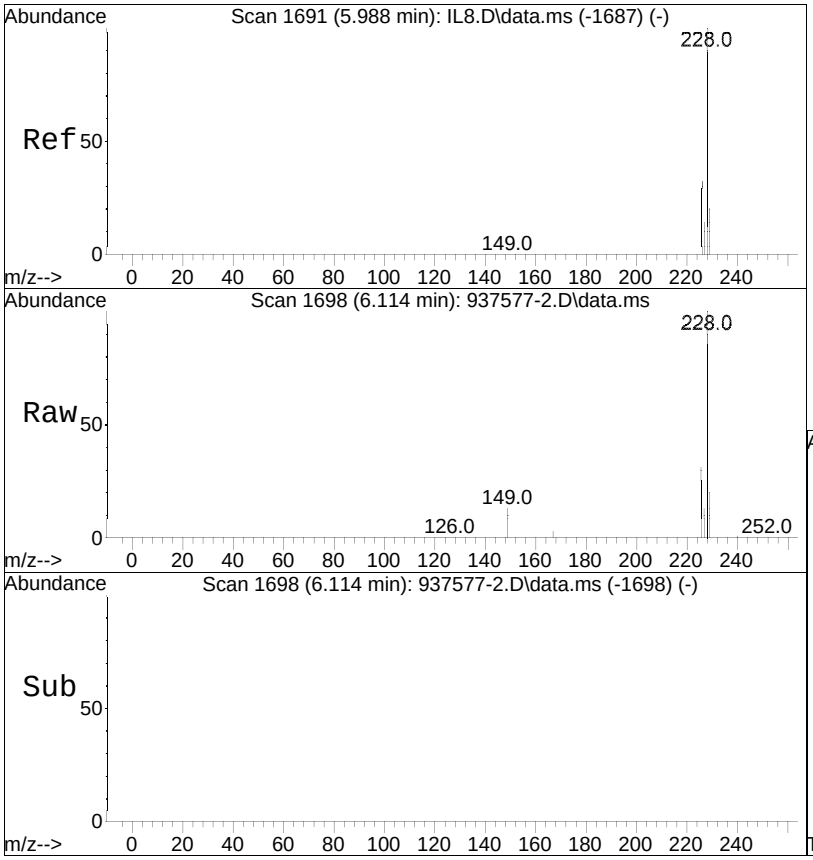


#34
3,3'-Dichlorobenzene
Concen: 1422.92 ng/ml M4
RT: 6.082 min Scan# 1686
Delta R.T. -0.082 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:252 Resp: 380454

Ion	Ratio	Lower	Upper
252	100		
126	12.1	10.6	16.0
254	61.6	51.7	77.5

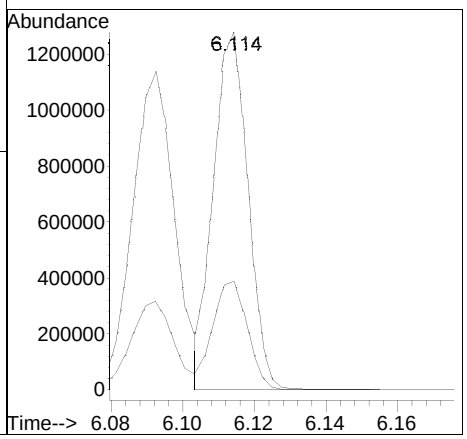


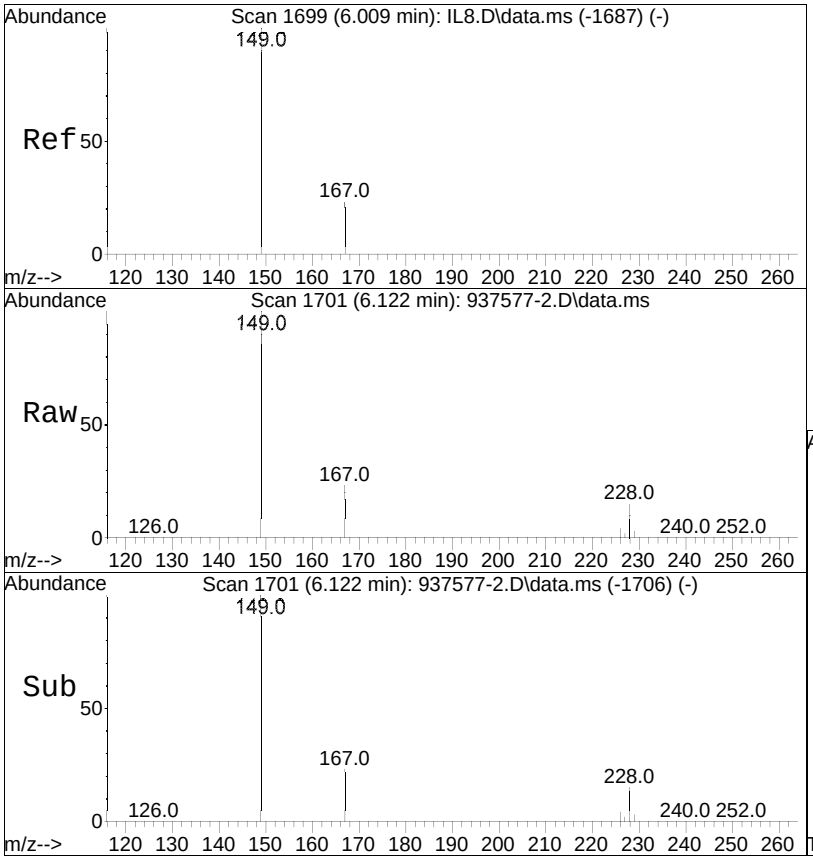


#35
Chrysene
Concen: 1501.06 ng/ml M3
RT: 6.114 min Scan# 1698
Delta R.T. -0.079 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:228 Resp: 856059

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

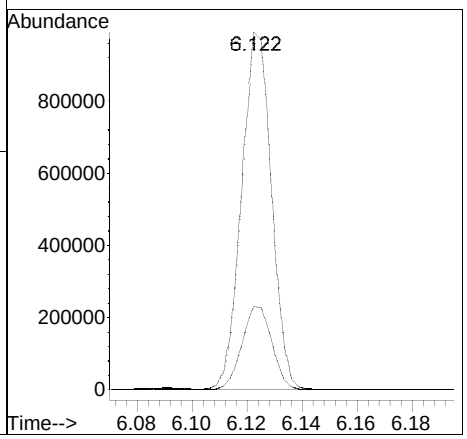


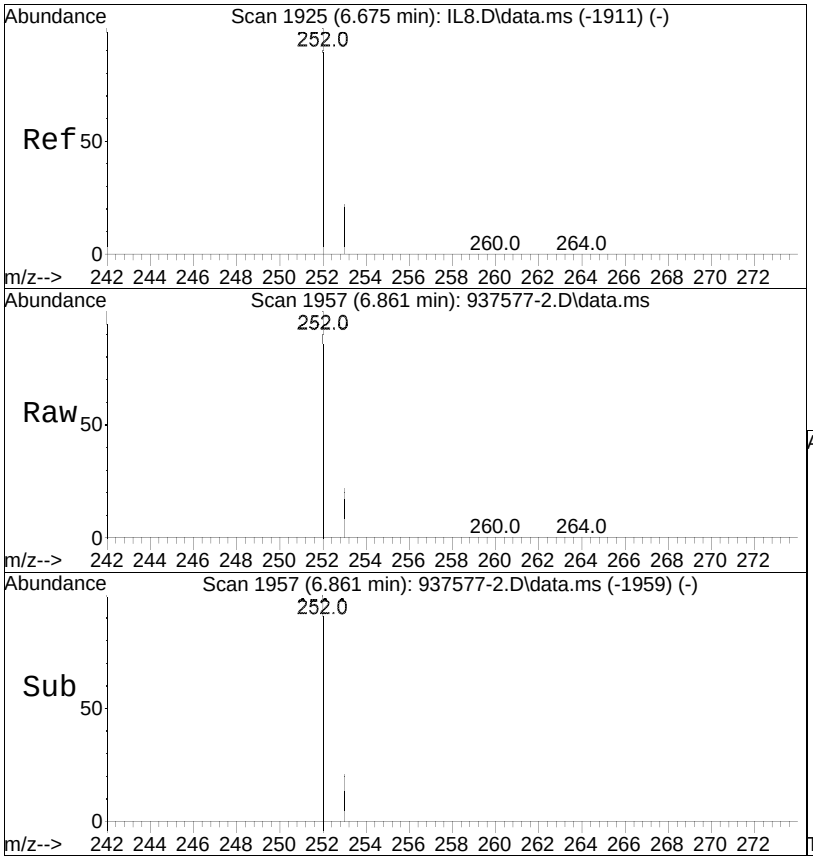


#36
Bis(2-ethylhexyl)phthalate
Concen: 1745.36 ng/ml M1
RT: 6.122 min Scan# 1701
Delta R.T. -0.093 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:149 Resp: 740890

Ion	Ratio	Lower	Upper
149	100		
167	23.4	18.6	27.8

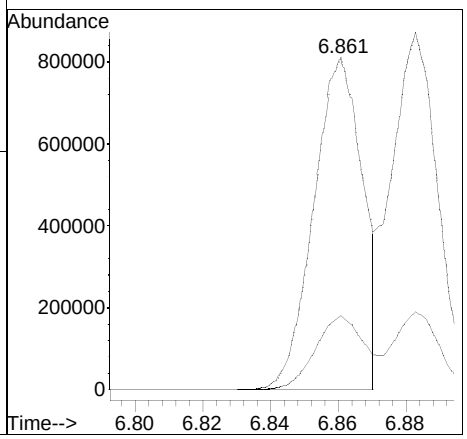


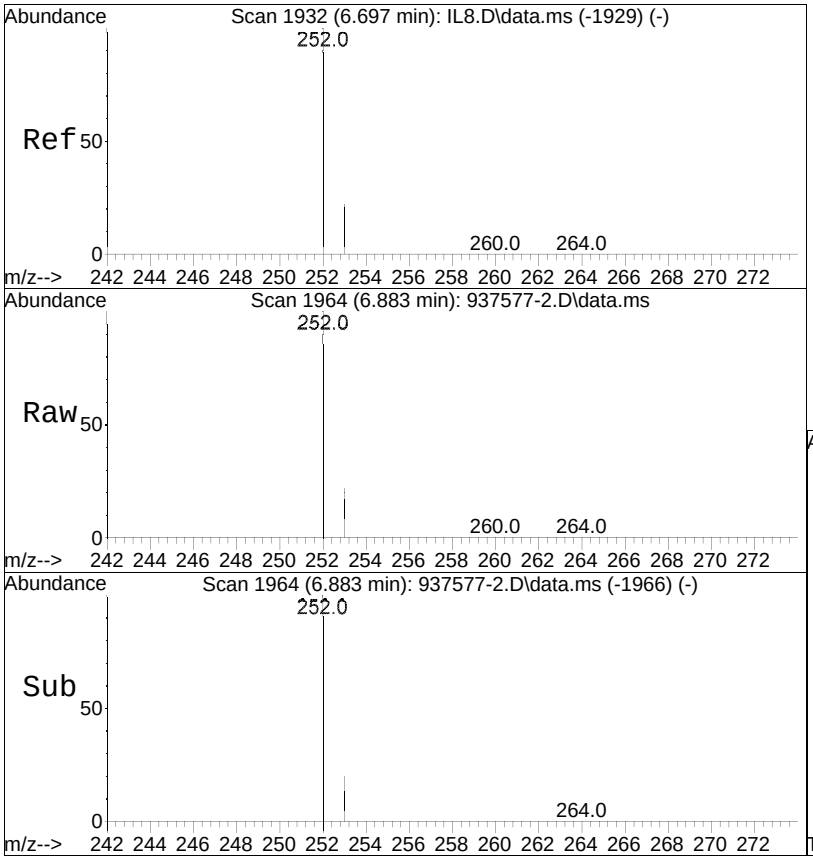


#38
Benzo[b]fluoranthene
Concen: 1495.37 ng/ml M3
RT: 6.861 min Scan# 1957
Delta R.T. -0.086 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:252 Resp: 824790

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

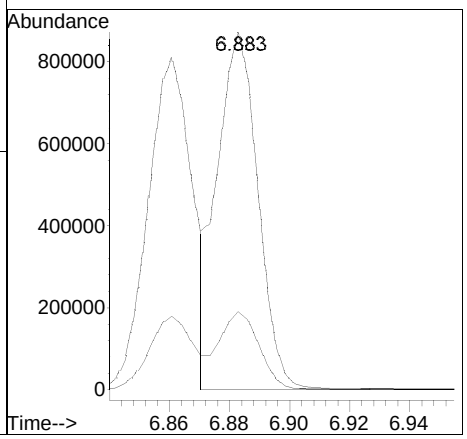


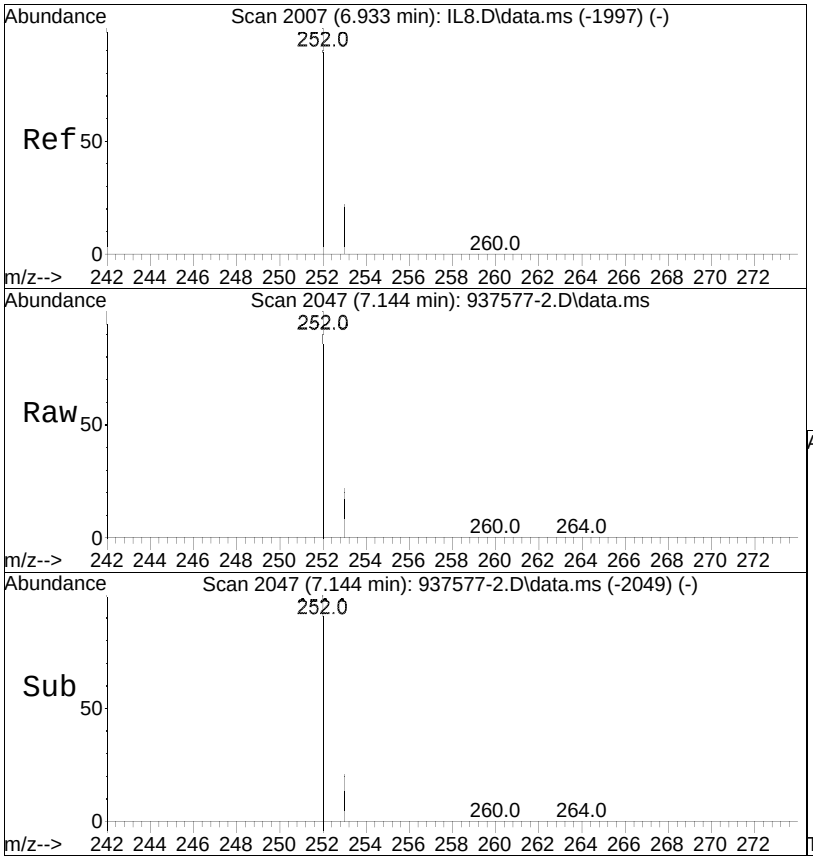


#39
Benzo[k]fluoranthene
Concen: 1591.20 ng/ml M4
RT: 6.883 min Scan# 1964
Delta R.T. -0.086 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:252 Resp: 818581

Ion	Ratio	Lower	Upper
252	100		
253	19.9	17.7	26.5

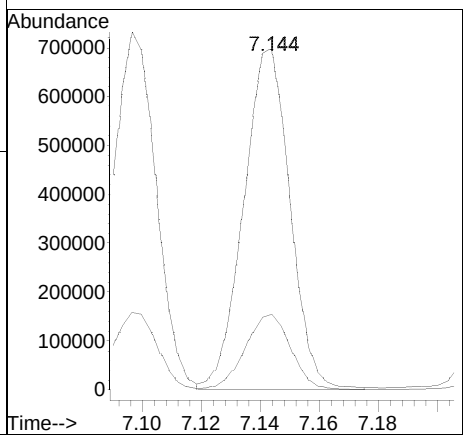


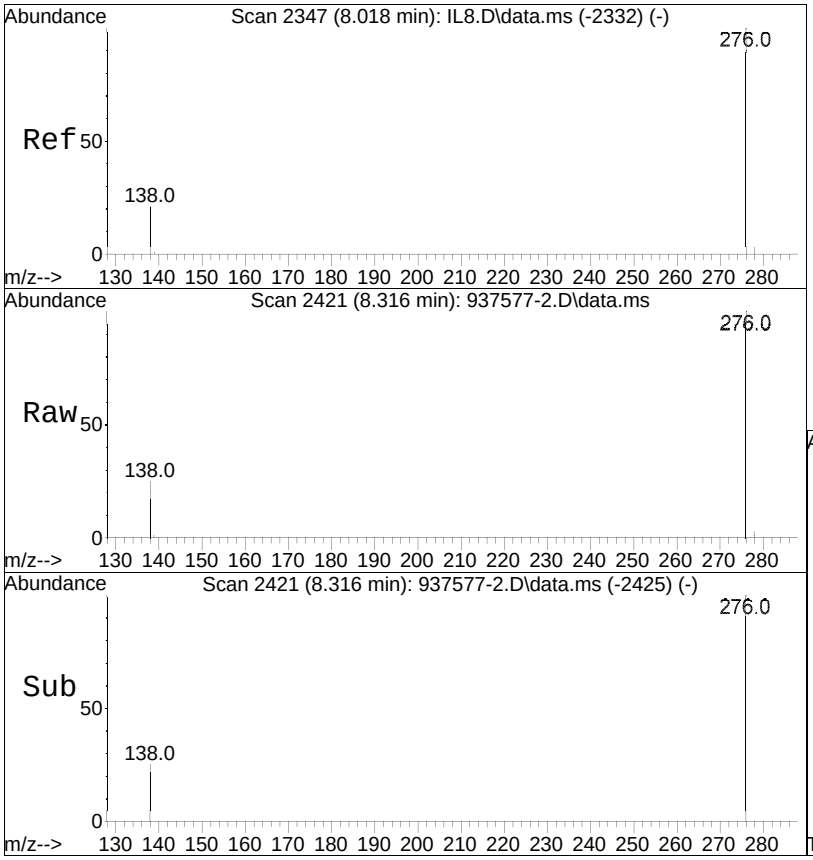


#40
Benzo[a]pyrene
Concen: 1667.05 ng/ml M3
RT: 7.144 min Scan# 2047
Delta R.T. -0.086 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:252 Resp: 762459

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.2

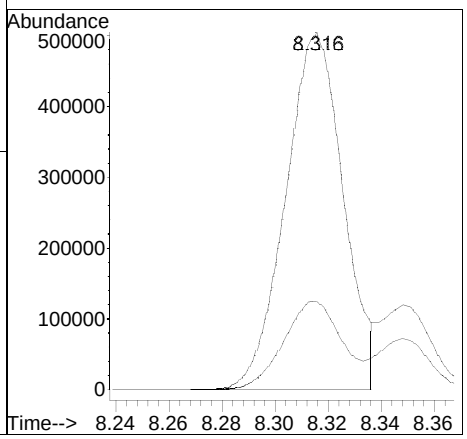


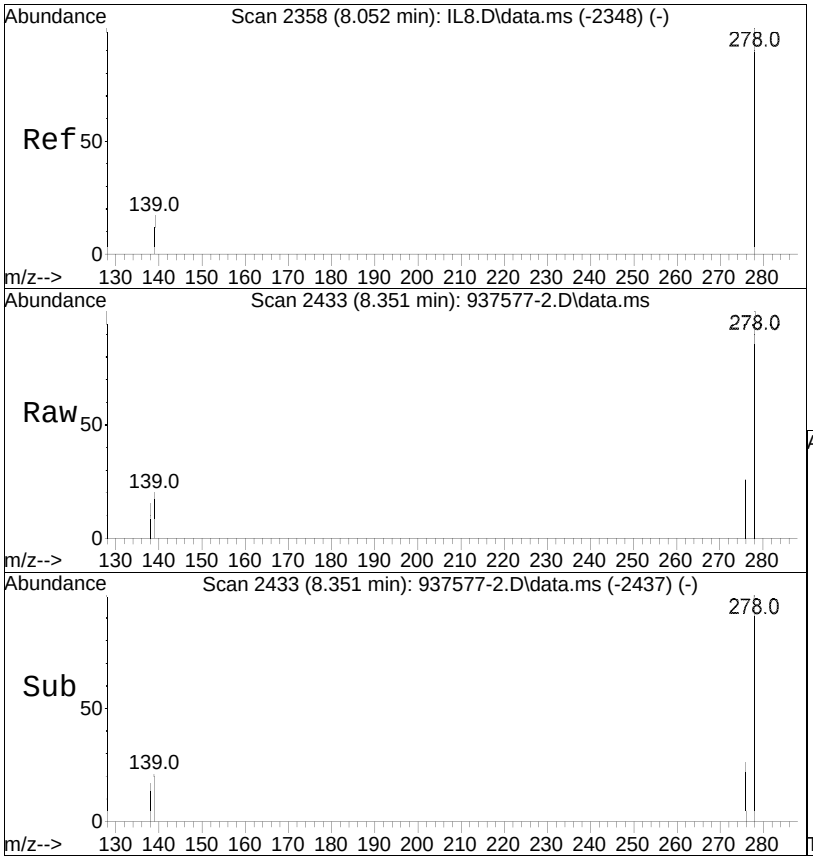


#41
Indeno[1,2,3-cd]pyrene
Concen: 1665.22 ng/ml M2
RT: 8.316 min Scan# 2421
Delta R.T. -0.092 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:276 Resp: 758674

Ion	Ratio	Lower	Upper
276	100		
138	25.2	16.2	24.4#

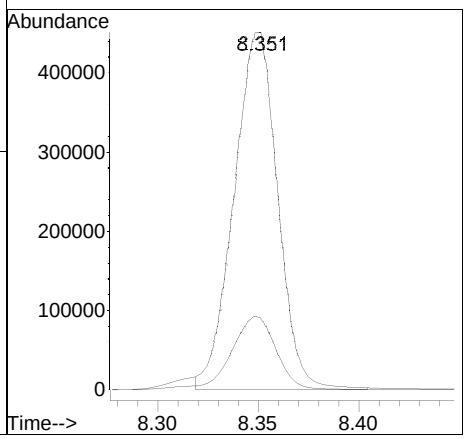


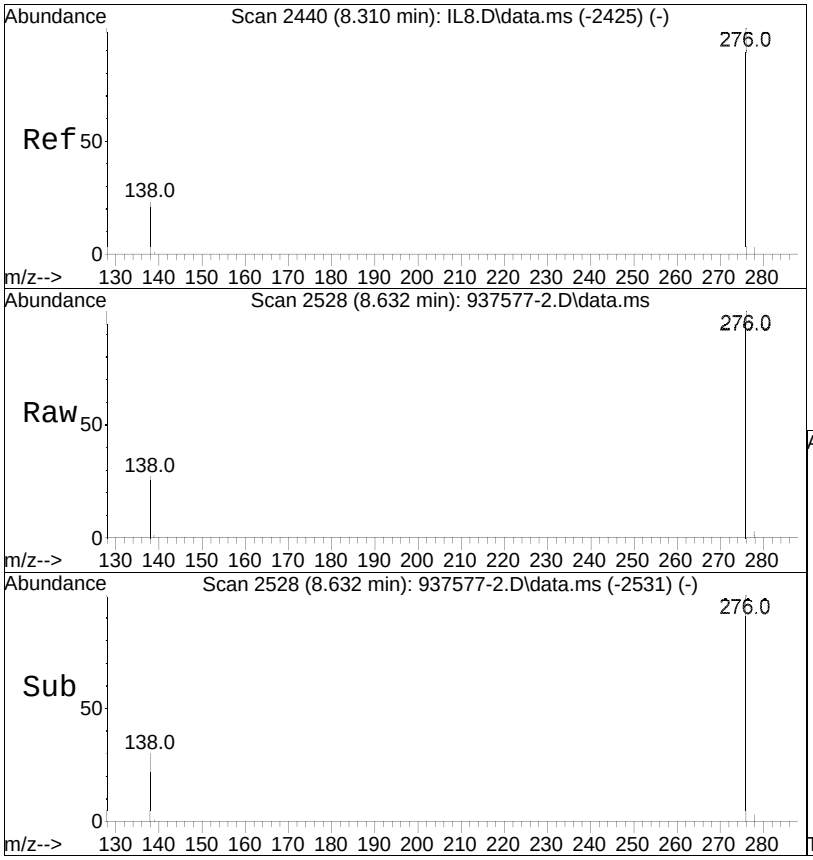


#42
Dibenzo[a,h]anthracene
Concen: 1603.00 ng/ml M2
RT: 8.351 min Scan# 2433
Delta R.T. -0.092 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:278 Resp: 677020

Ion	Ratio	Lower	Upper
278	100		
139	20.6	14.5	21.7

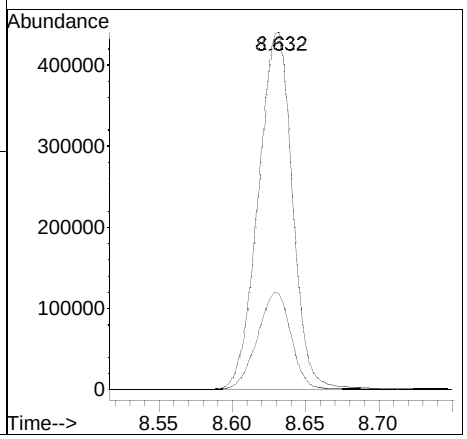




#43
Benzo[g,h,i]perylene
Concen: 1542.78 ng/ml M2
RT: 8.632 min Scan# 2528
Delta R.T. -0.089 min
Lab File: 937577-2.D
Acq: 21 Jun 2024 12:38 pm

Tgt Ion:276 Resp: 707413

Ion	Ratio	Lower	Upper
276	100		
138	26.5	18.5	27.7

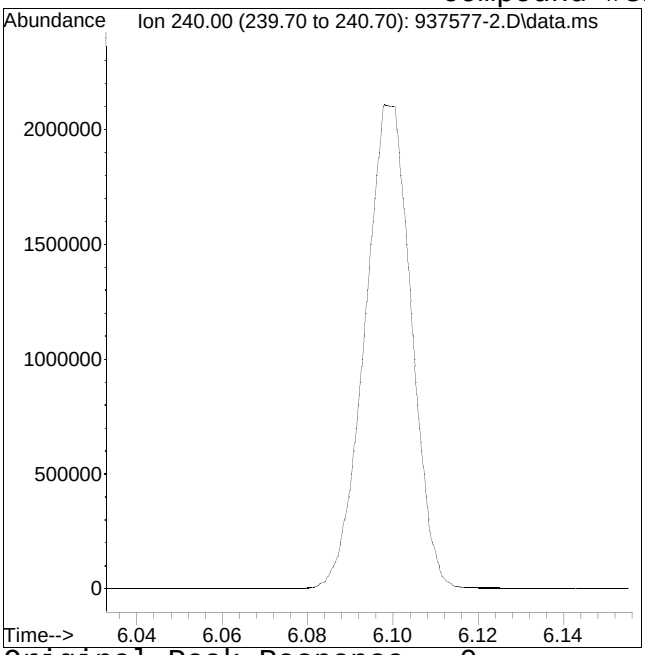


Manual Integration Report

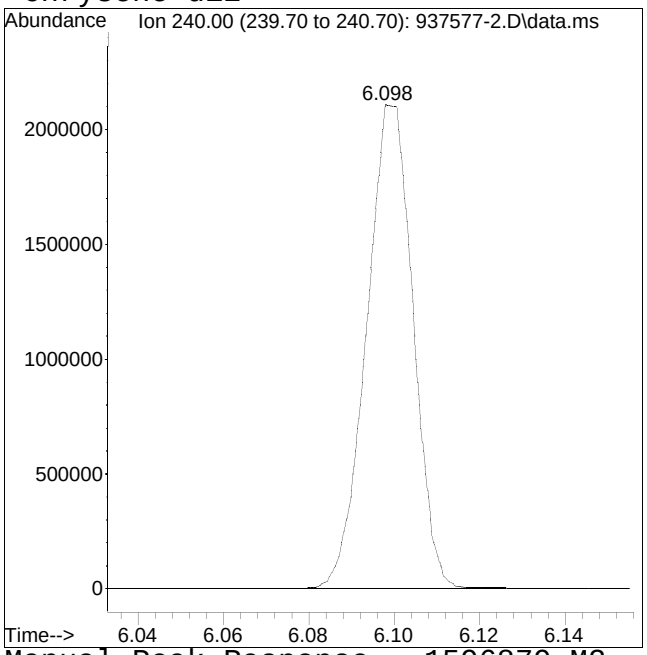
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-2.D
Date Inj'd : 6/21/2024 12:38 pm
Sample : WG1937577-2,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 12:52 pm

Compound #32: Chrysene-d12



Original Peak Response = 0



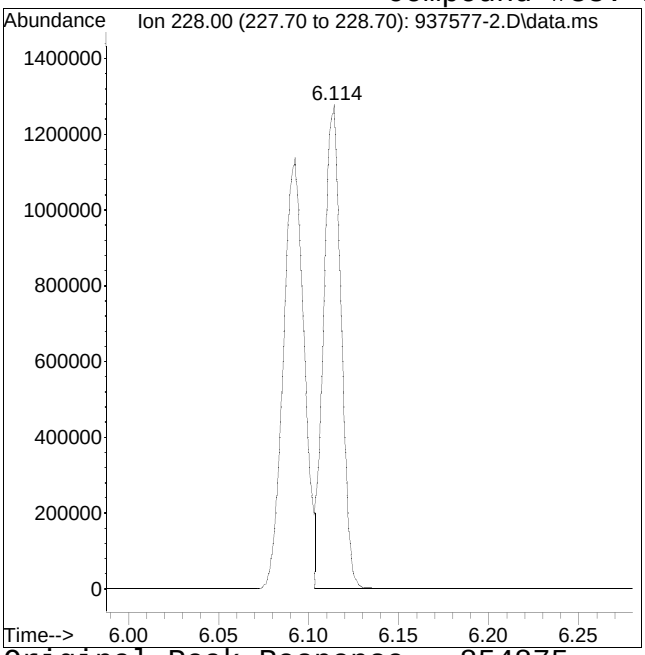
Manual Peak Response = 1596879 M2

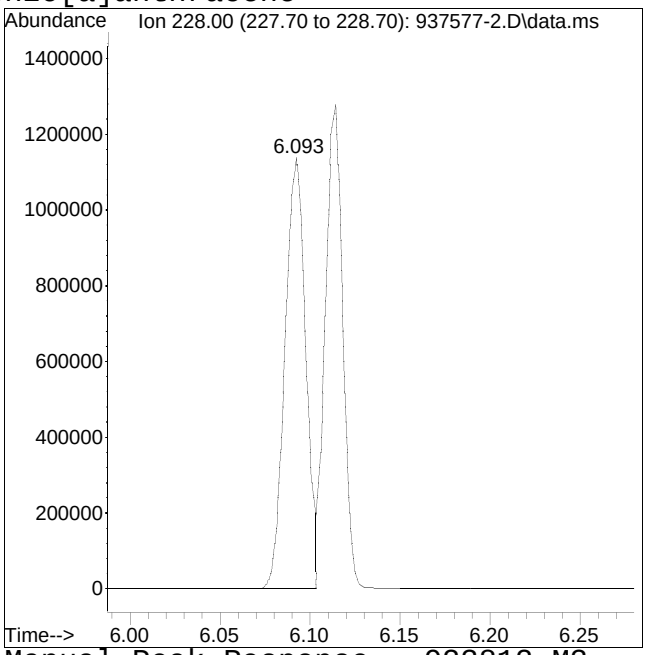
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-2.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:38 pm Instrument : SV125
Sample : WG1937577-2,32,,rp Quant Date : 6/21/2024 12:52 pm

Compound #33: Benzo[a]anthracene



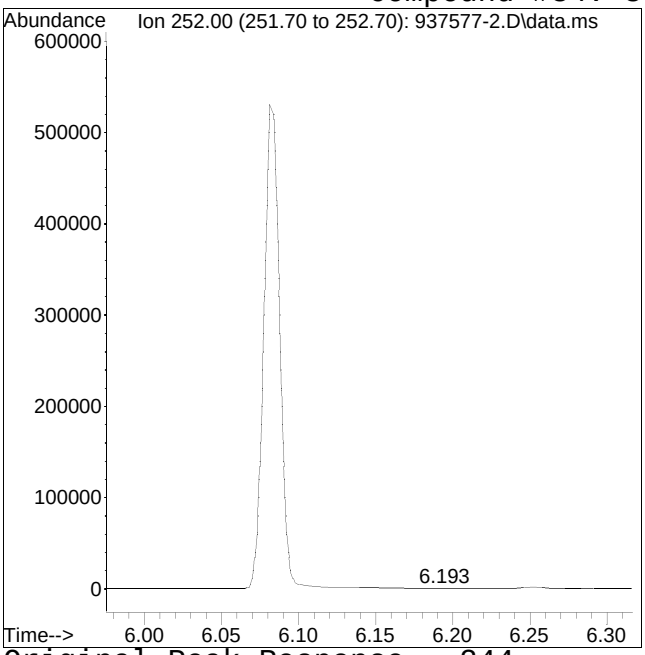


Original Peak Response = 854875 Manual Peak Response = 923812 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

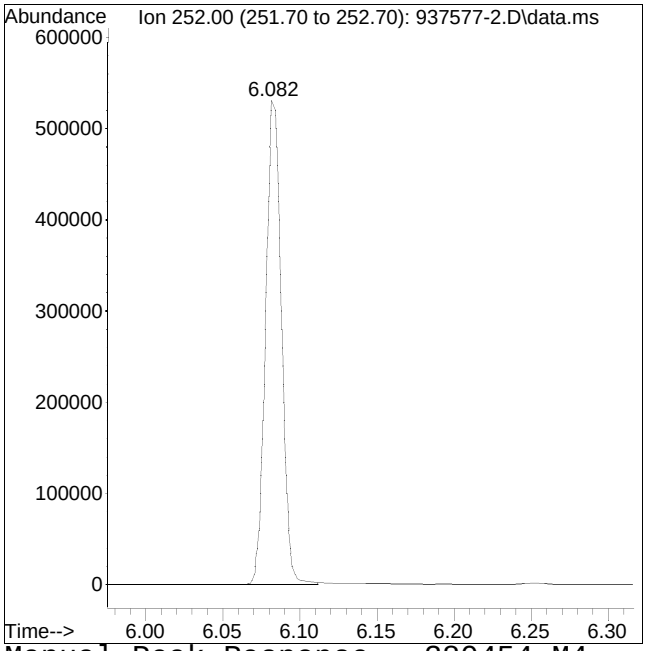
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-2.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:38 pm Instrument : SV125
Sample : WG1937577-2,32,,rp Quant Date : 6/21/2024 12:52 pm

Compound #34: 3,3'-Dichlorobenzene



Original Peak Response = 244



Manual Peak Response = 380454 M4

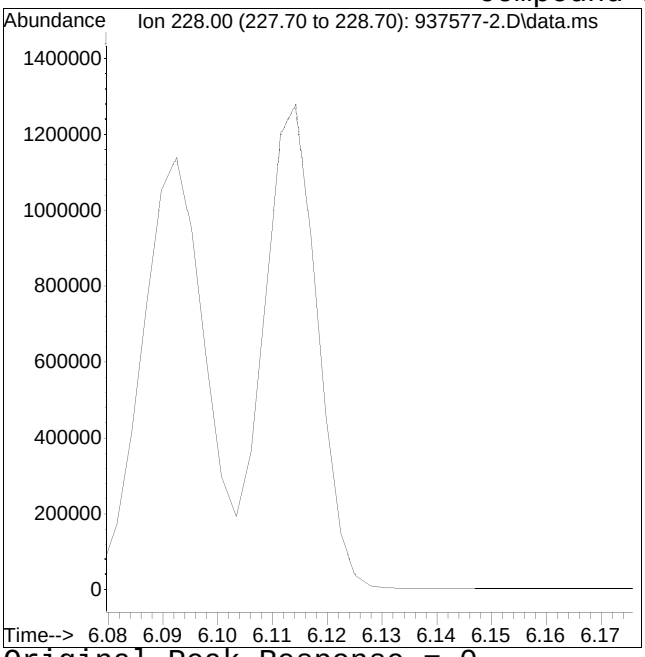
M4 = Poor automated baseline construction.

Manual Integration Report

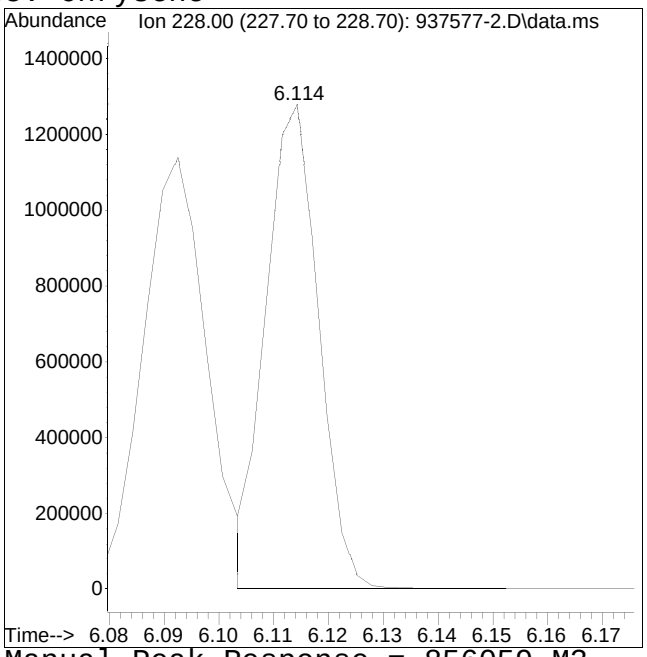
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-2.D
Date Inj'd : 6/21/2024 12:38 pm
Sample : WG1937577-2,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 12:52 pm

Compound #35: Chrysene



Original Peak Response = 0



Manual Peak Response = 856059 M3

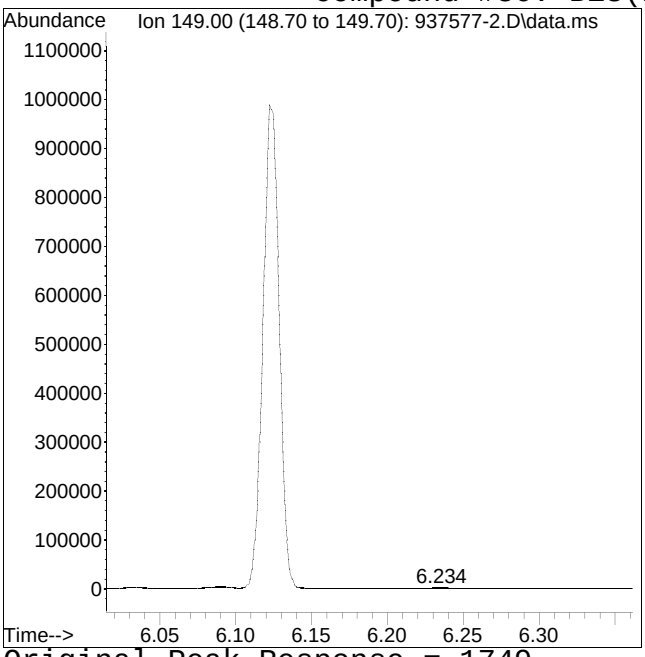
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

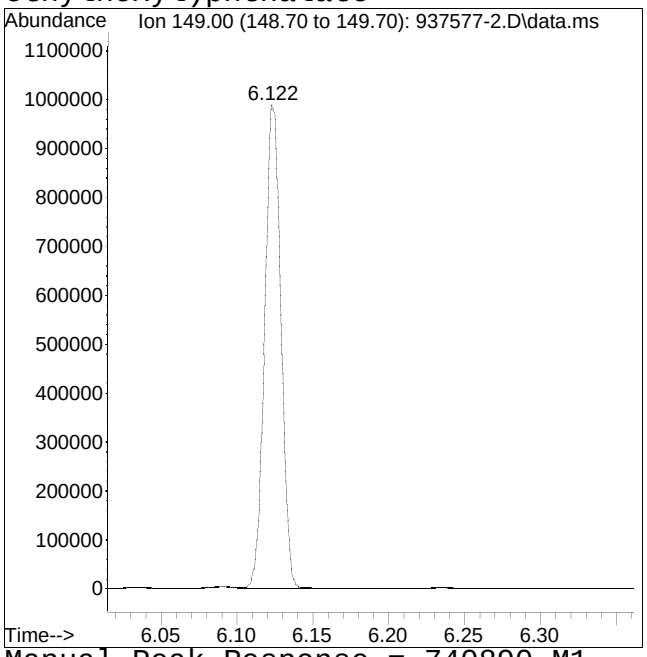
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-2.D
Date Inj'd : 6/21/2024 12:38 pm
Sample : WG1937577-2,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 12:52 pm

Compound #36: Bis(2-ethylhexyl)phthalate



Original Peak Response = 1749



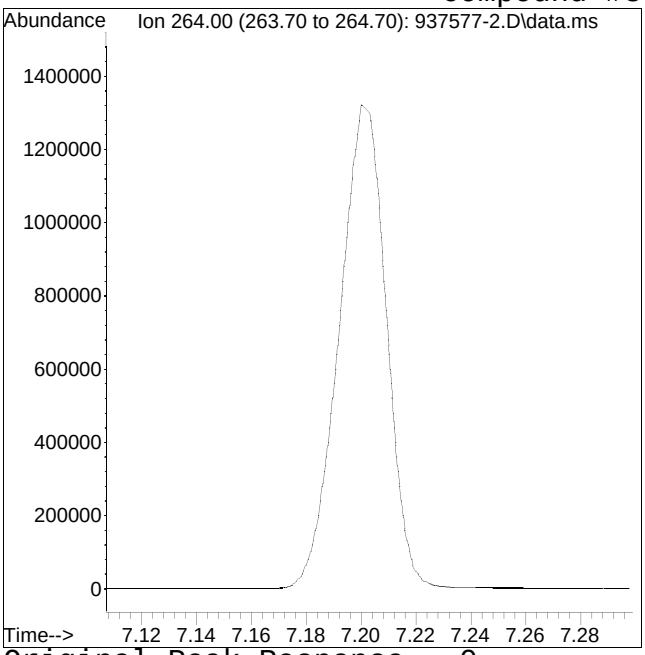
Manual Peak Response = 740890 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

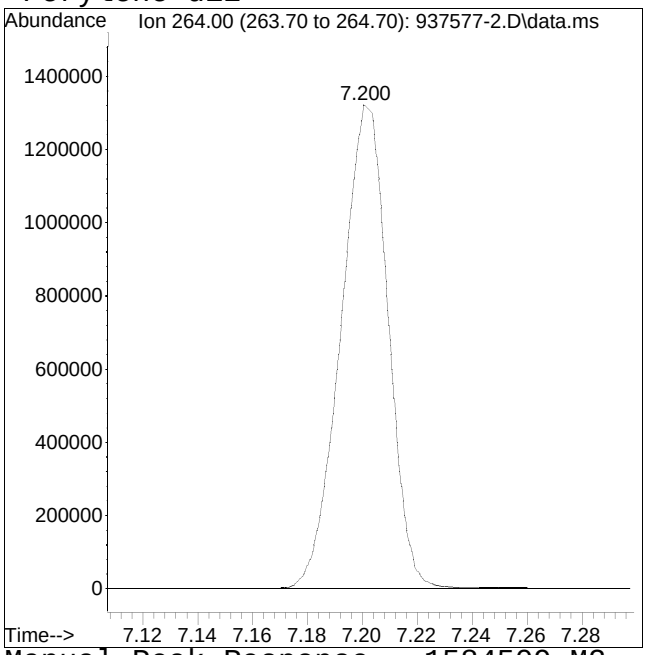
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-2.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:38 pm Instrument : SV125
Sample : WG1937577-2,32,,rp Quant Date : 6/21/2024 12:52 pm

Compound #37: Perylene-d12



Original Peak Response = 0



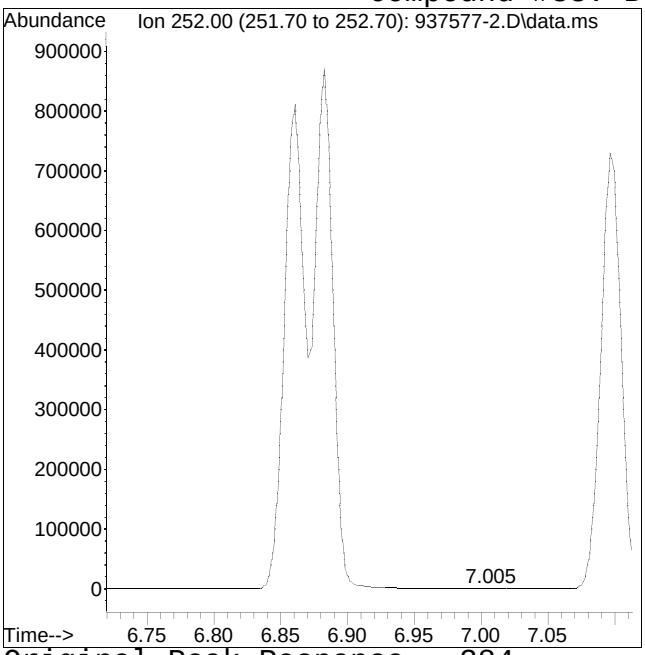
Manual Peak Response = 1584509 M2

M2 = Peak not found by automatic integration algorithm.

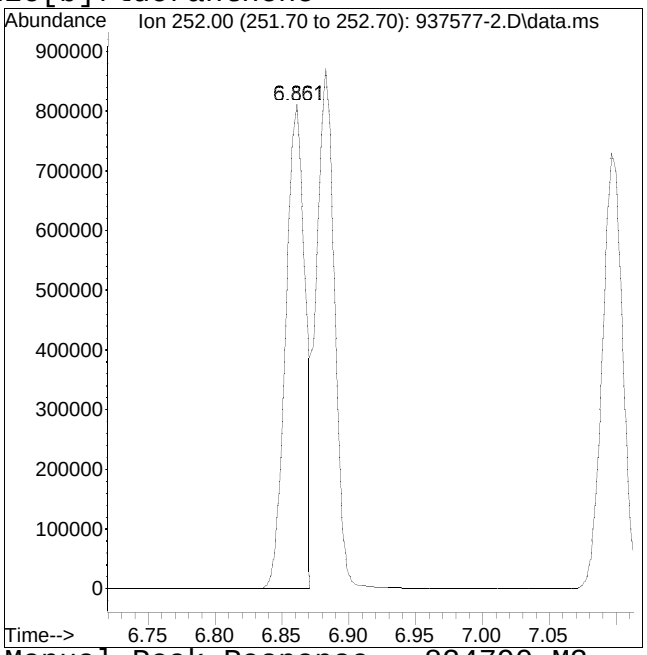
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-2.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:38 pm Instrument : SV125
Sample : WG1937577-2,32,,rp Quant Date : 6/21/2024 12:52 pm

Compound #38: Benzo[b]fluoranthene



Original Peak Response = 384



Manual Peak Response = 824790 M3

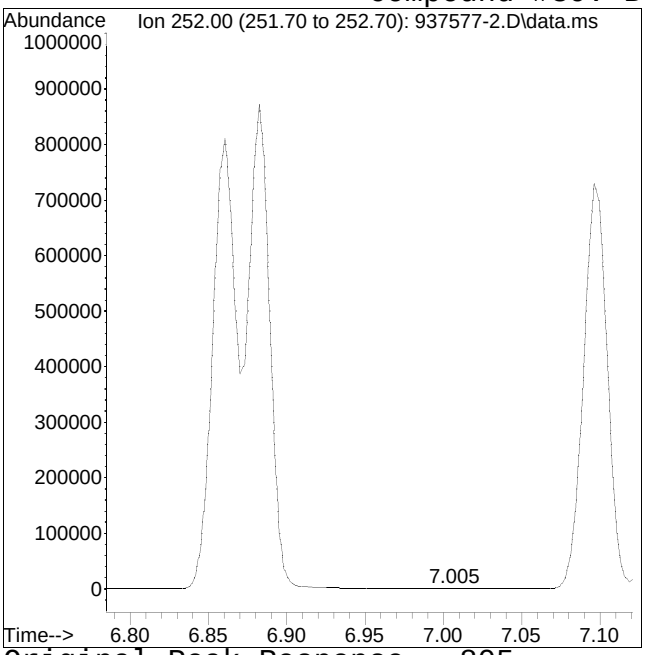
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

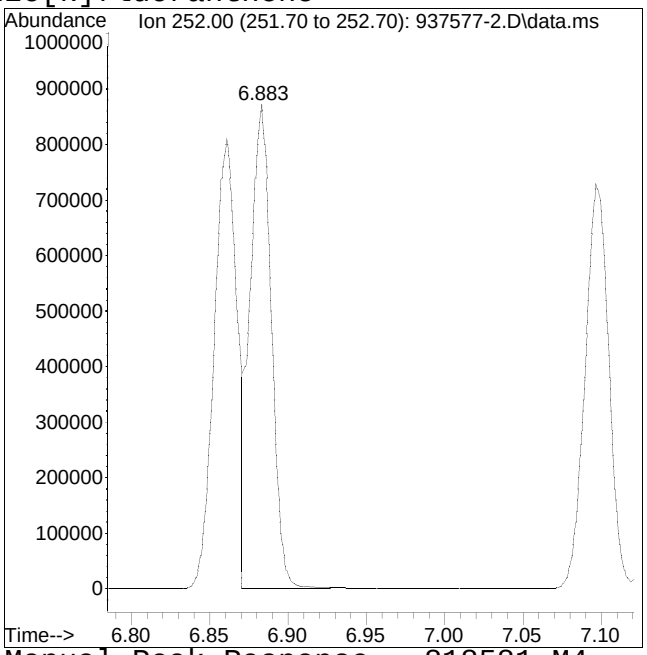
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-2.D
Date Inj'd : 6/21/2024 12:38 pm
Sample : WG1937577-2,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 12:52 pm

Compound #39: Benzo[k]fluoranthene



Original Peak Response = 805



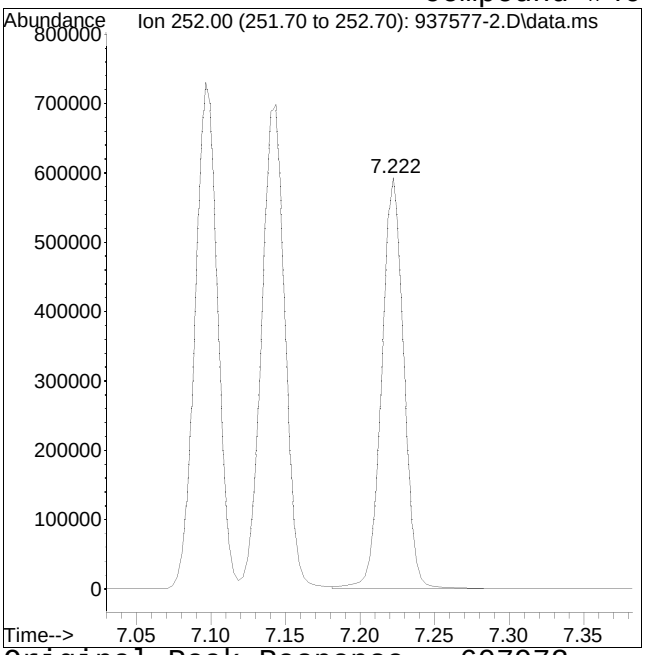
Manual Peak Response = 818581 M4

M4 = Poor automated baseline construction.

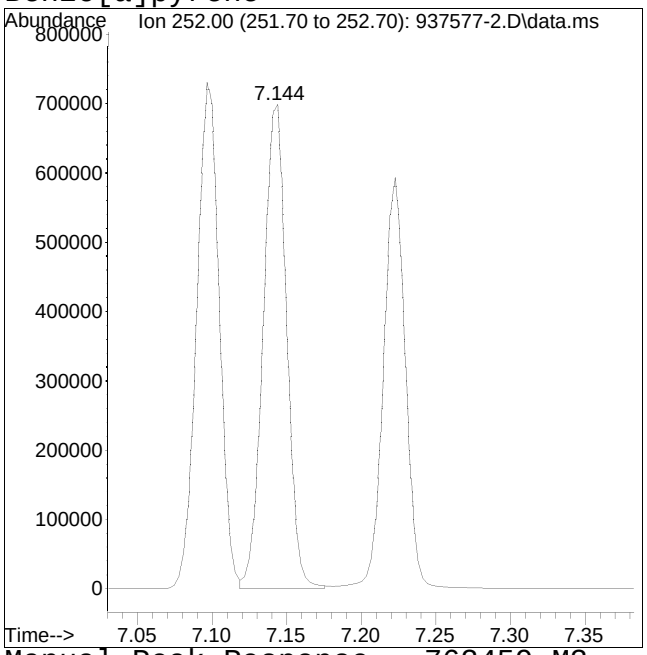
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-2.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:38 pm Instrument : SV125
Sample : WG1937577-2,32,,rp Quant Date : 6/21/2024 12:52 pm

Compound #40: Benzo[a]pyrene



Original Peak Response = 607972



Manual Peak Response = 762459 M3

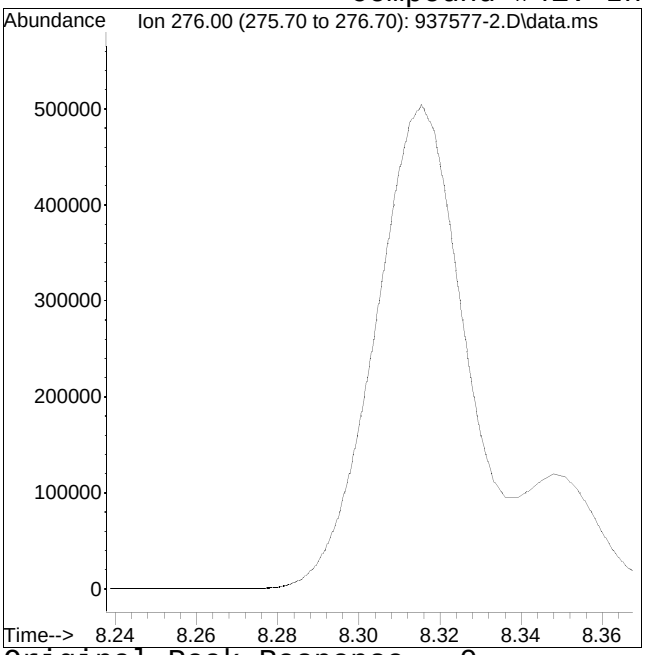
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

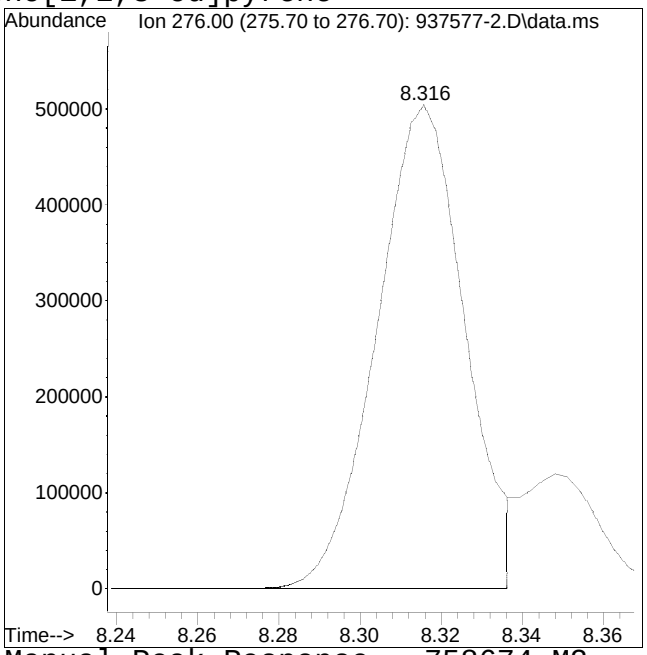
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-2.D
Date Inj'd : 6/21/2024 12:38 pm
Sample : WG1937577-2,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 12:52 pm

Compound #41: Indeno[1,2,3-cd]pyrene



Original Peak Response = 0



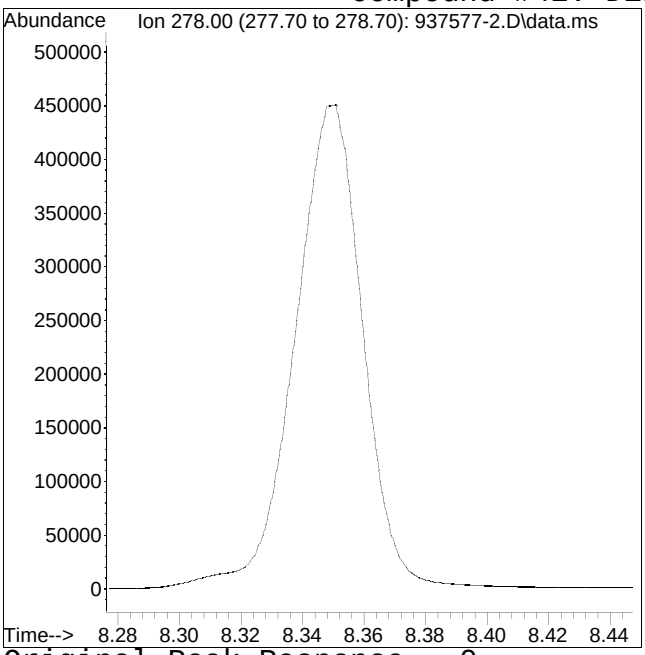
Manual Peak Response = 758674 M2

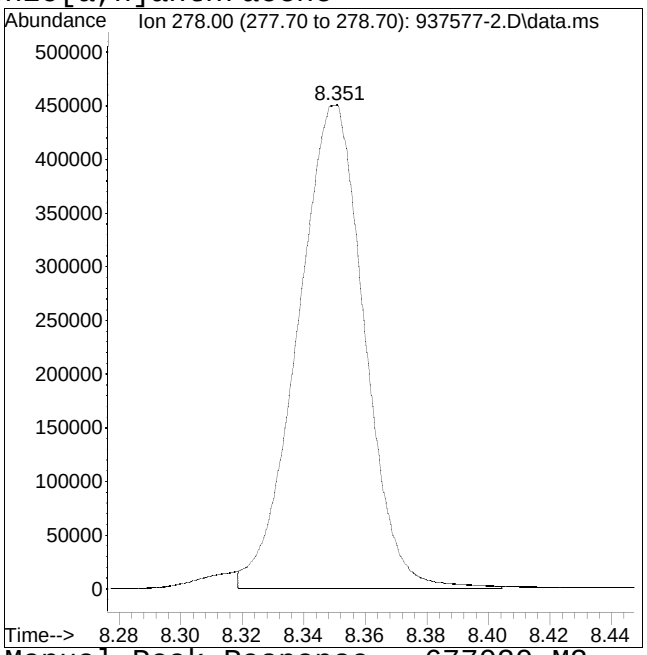
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-2.D
Date Inj'd : 6/21/2024 12:38 pm
Sample : WG1937577-2,32,,rp
Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 12:52 pm

Compound #42: Dibenzo[a,h]anthracene





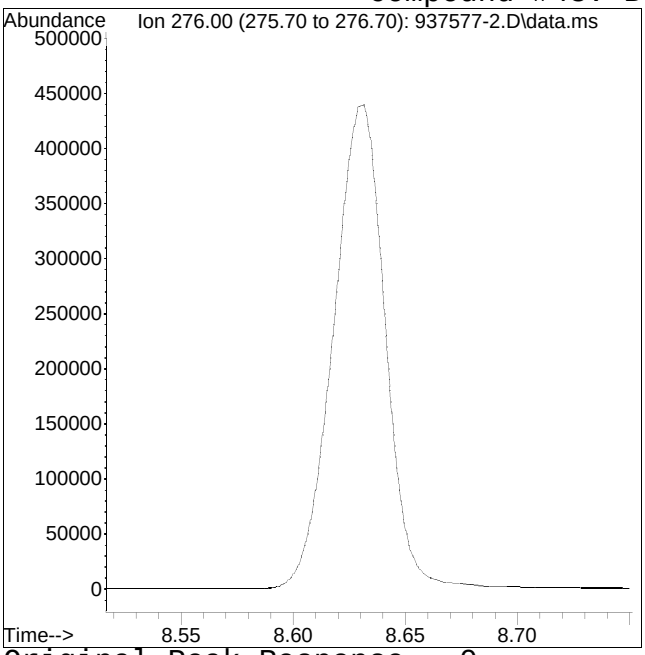
Original Peak Response = 0
Manual Peak Response = 677020 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

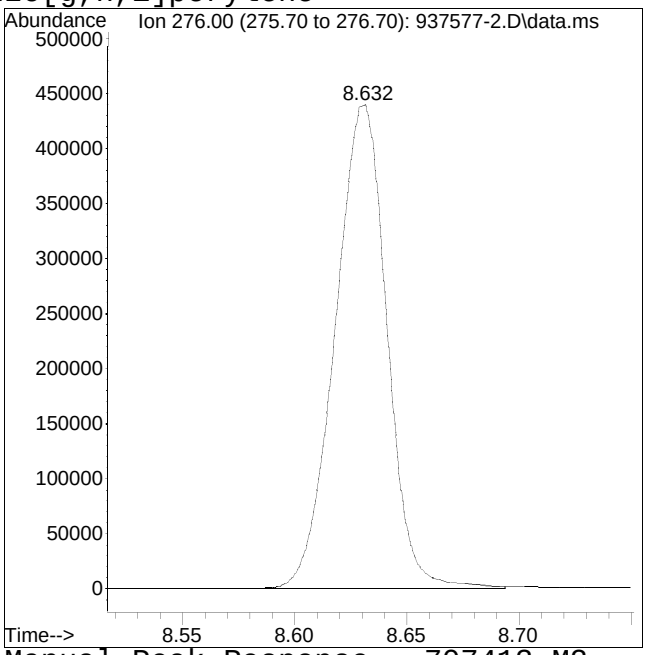
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-2.D
Date Inj'd : 6/21/2024 12:38 pm
Sample : WG1937577-2,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 12:52 pm

Compound #43: Benzo[g,h,i]perylene



Original Peak Response = 0



Manual Peak Response = 707413 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-3.D
Acq On : 20 Jun 2024 01:36 pm
Operator : SV125:jjw
Sample : WG1936734-3,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 14:54:07 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	383975	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 81.10%			
9) Naphthalene-d8	2.768	136	1482216	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 81.41%			
18) Acenaphthene-d10	3.746	164	829459	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 79.93%			
23) Phenanthrene-d10	4.583	188	1711935	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 80.99%			
32) Chrysene-d12	6.103	240	1416181	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 88.59%			
37) Perylene-d12	7.207	264	1518775	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 96.66%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.523	112	114375	1007.145	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.14%			
4) Phenol-d6	1.924	99	96770	736.024	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.72%#			
8) Nitrobenzene-d5	2.385	82	87295	819.637	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 32.79%			
14) 2-Fluorobiphenyl	3.370	172	207317	609.125	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 24.37%#			
22) 2,4,6-Tribromophenol	4.191	330	69881	1510.307	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 30.21%			
31) 4-Terphenyl-d14	5.491	244	235550	673.365	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 26.93%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	1.969	93	163415	1394.749	ng/ml	95
7) Hexachloroethane	2.362	117	53598	1029.192	ng/ml	99
10) Naphthalene	2.777	128	455635	1101.076	ng/ml#	99
11) Hexachlorobutadiene	2.854	225	69232	877.970	ng/ml	100
12) 2-Methylnaphthalene	3.162	142	312841	1180.193	ng/ml	99
15) 2-Chloronaphthalene	3.434	162	310551	1053.301	ng/ml	91
17) Acenaphthylene	3.666	152	533281	1215.797	ng/ml	99
19) Acenaphthene	3.764	153	347553	1225.560	ng/ml	97
21) Fluorene	4.054	166	403874	1244.446	ng/ml	99
25) Hexachlorobenzene	4.370	284	125657	1060.742	ng/ml	97

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-3.D
Acq On : 20 Jun 2024 01:36 pm
Operator : SV125:jjw
Sample : WG1936734-3,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 14:54:07 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	4.483	266	81659	1306.890	ng/ml	99
27) Phenanthrene	4.595	178	631595	1275.851	ng/ml	100
28) Anthracene	4.625	178	647675	1354.376	ng/ml	100
29) Fluoranthene	5.270	202	810853	1412.519	ng/ml	98
30) Pyrene	5.398	202	833757	1389.091	ng/ml	99
33) Benzo[a]anthracene	6.095	228	770253	1359.866	ng/ml	100
35) Chrysene	6.117	228	742761	1468.579	ng/ml	98
38) Benzo[b]fluoranthene	6.864	252	816413	1544.242	ng/ml	100
39) Benzo[k]fluoranthene	6.886	252	675967	1370.850	ng/ml	100
40) Benzo[a]pyrene	7.147	252	667792	1523.258	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.322	276	691339	1583.098	ng/ml	91
42) Dibenzo[a,h]anthracene	8.354	278	615883M6	1521.359	ng/ml	
43) Benzo[g,h,i]perylene	8.635	276	632793	1439.776	ng/ml	93

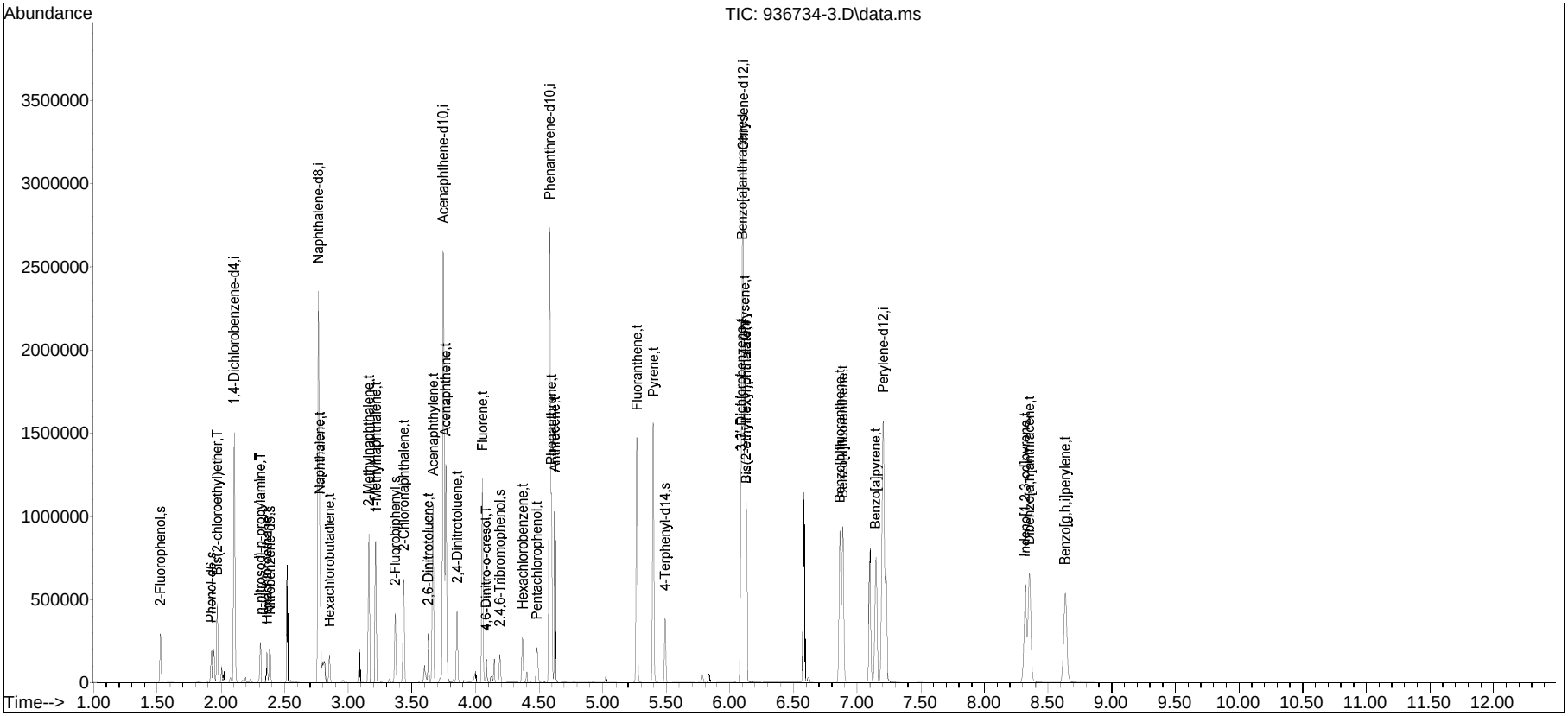
(#) = qualifier out of range (m) = manual integration (+) = signals summed

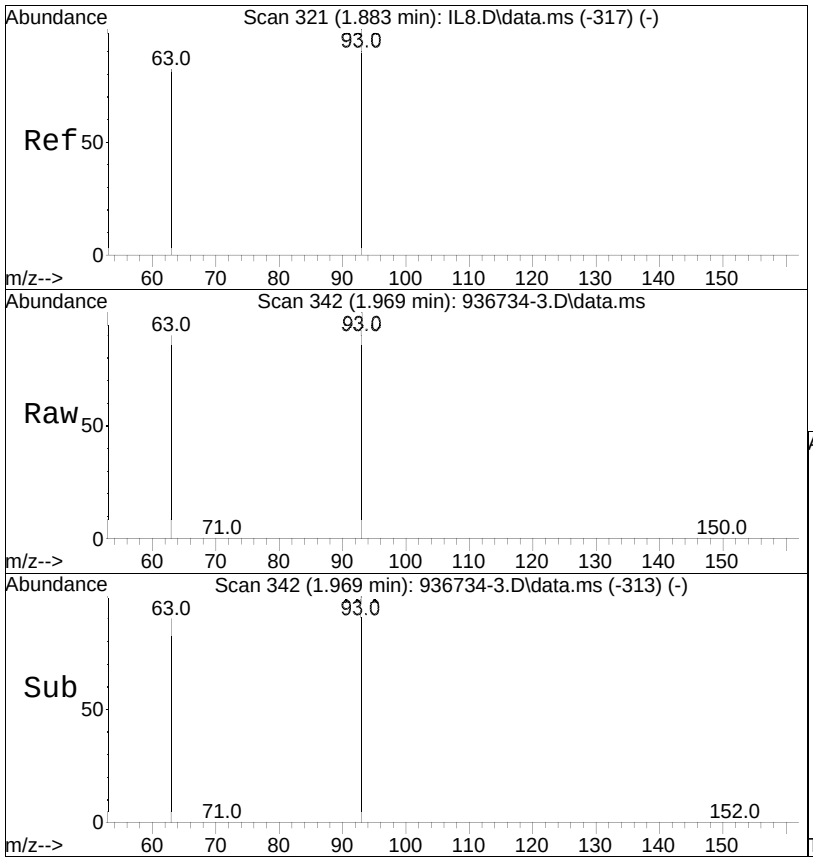
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936734-3.D
Acq On : 20 Jun 2024 01:36 pm
Operator : SV125:jjw
Sample : WG1936734-3,32,,jjw
Misc : WG1937057,WG1936734,ical20885
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 14:54:07 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

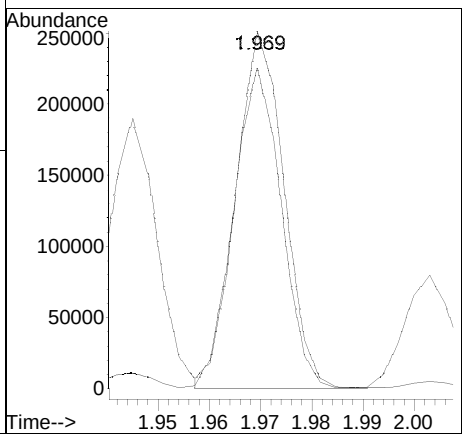


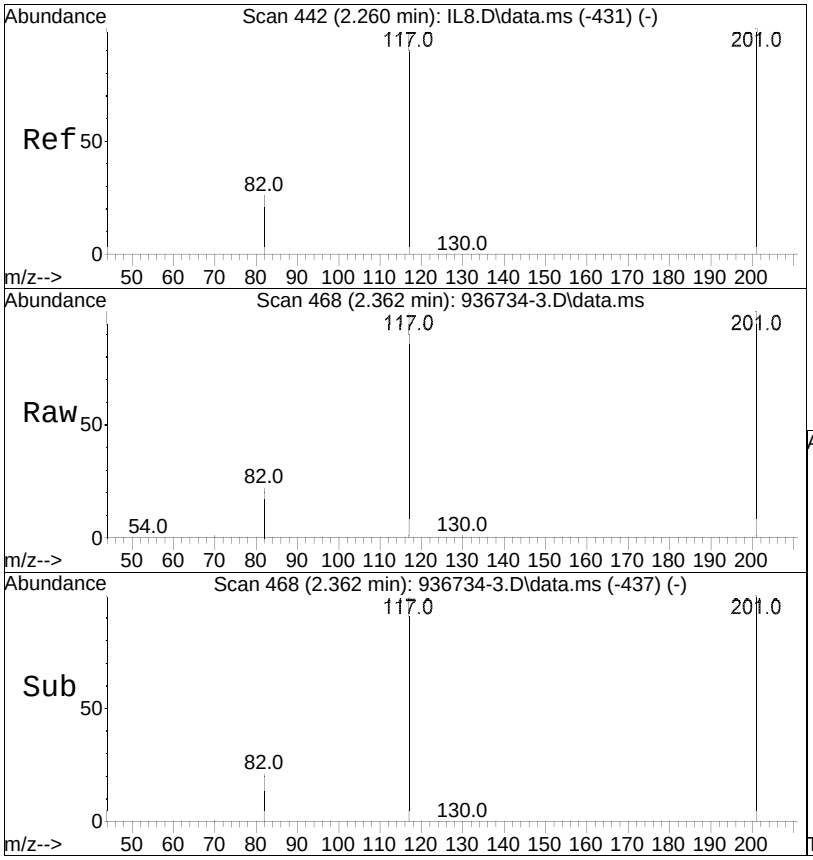


#5
Bis(2-chloroethyl)ether
Concen: 1394.75 ng/ml
RT: 1.969 min Scan# 342
Delta R.T. 0.009 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion: 93 Resp: 163415

Ion	Ratio	Lower	Upper
93	100		
63	89.3	67.7	101.5

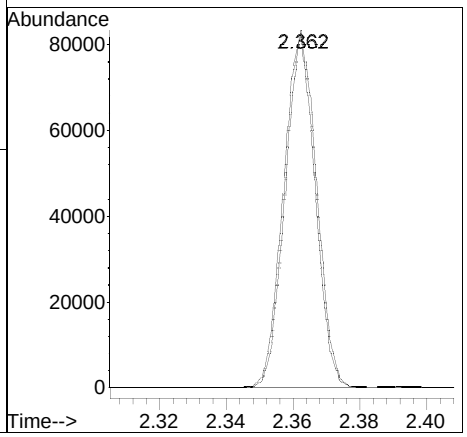


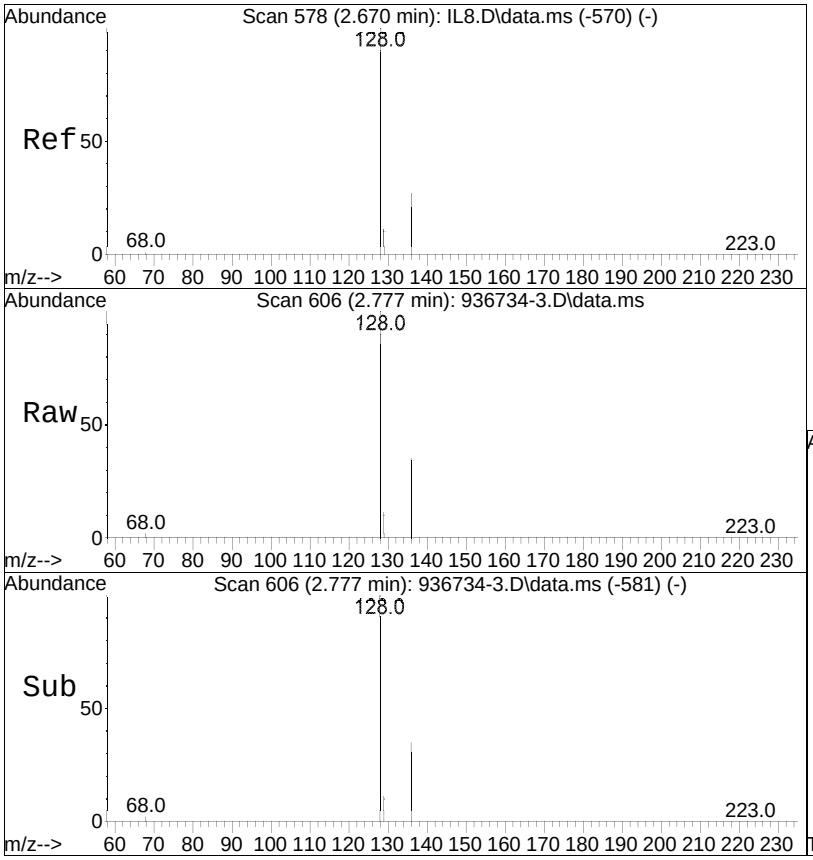


#7
Hexachloroethane
Concen: 1029.19 ng/ml
RT: 2.362 min Scan# 468
Delta R.T. 0.009 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:117 Resp: 53598

Ion	Ratio	Lower	Upper
117	100		
201	99.9	80.8	121.2

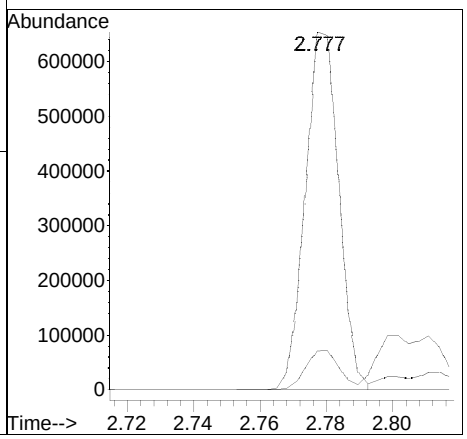


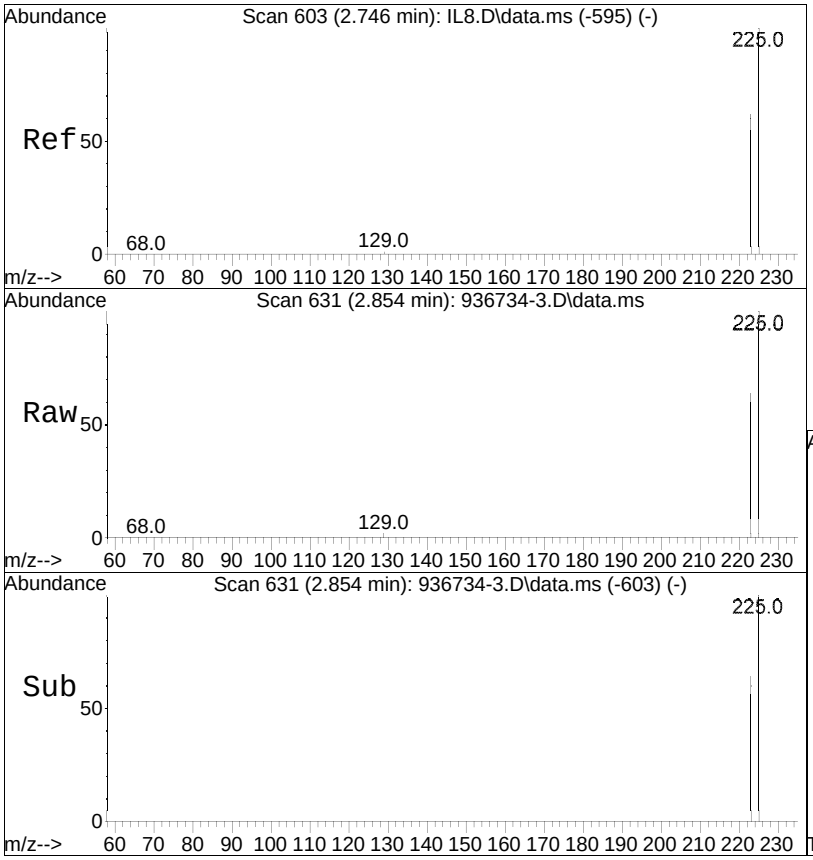


#10
Naphthalene
Concen: 1101.08 ng/ml
RT: 2.777 min Scan# 606
Delta R.T. 0.003 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:128 Resp: 455635

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	0.0	0.0	0.0

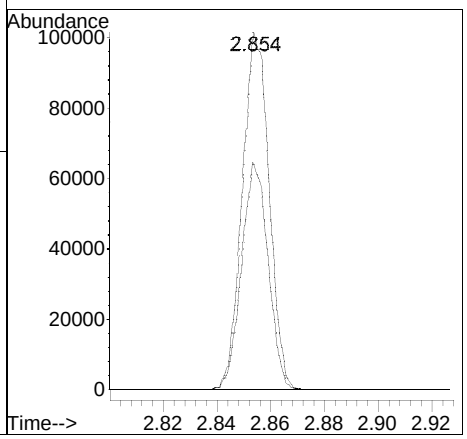


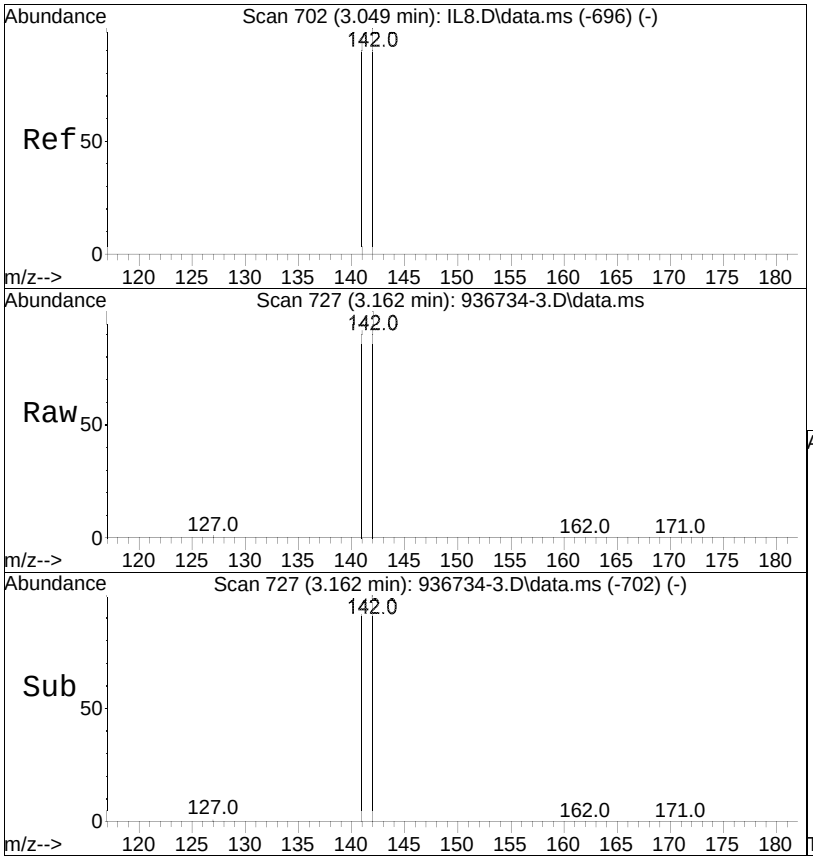


#11
Hexachlorobutadiene
Concen: 877.97 ng/ml
RT: 2.854 min Scan# 631
Delta R.T. 0.006 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:225 Resp: 69232

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4

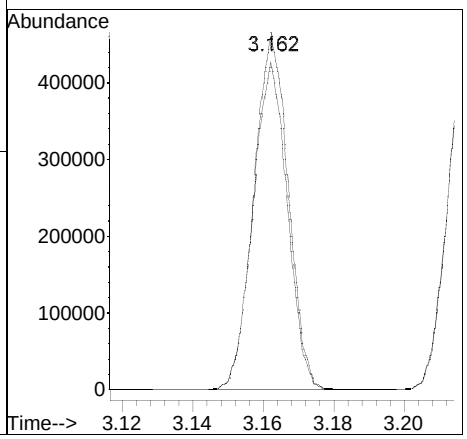


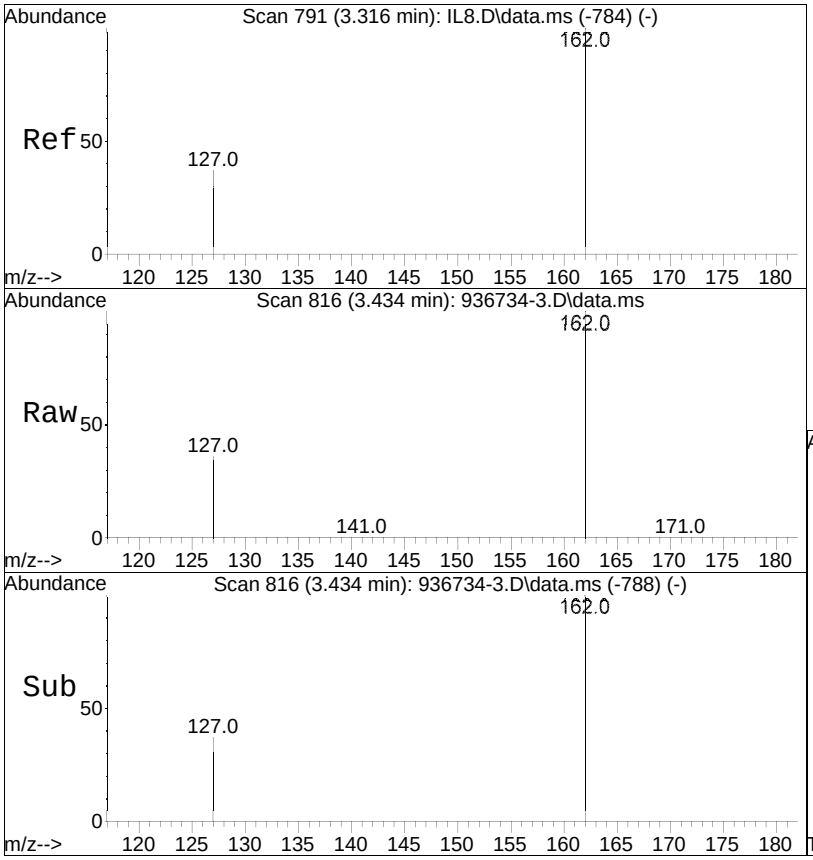


#12
2-Methylnaphthalene
Concen: 1180.19 ng/ml
RT: 3.162 min Scan# 727
Delta R.T. 0.006 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:142 Resp: 312841

Ion	Ratio	Lower	Upper
142	100		
141	91.9	74.4	111.6

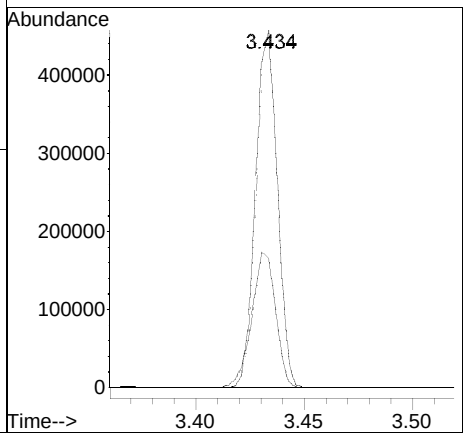


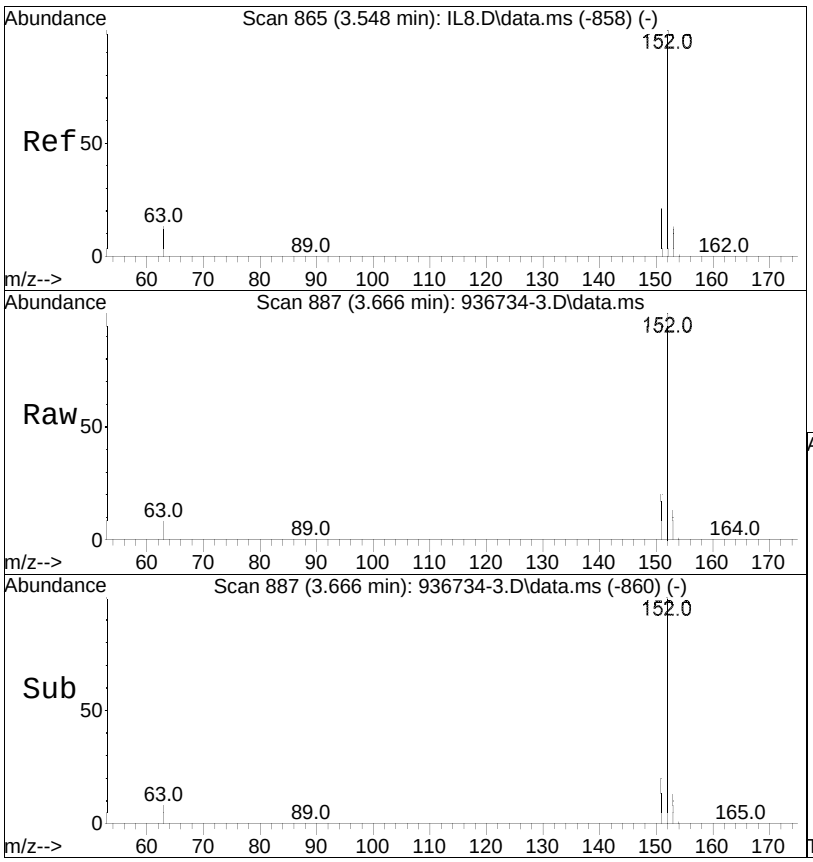


#15
2-Chloronaphthalene
Concen: 1053.30 ng/ml
RT: 3.434 min Scan# 816
Delta R.T. 0.006 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:162 Resp: 310551

Ion	Ratio	Lower	Upper
162	100		
127	42.0	29.2	43.8

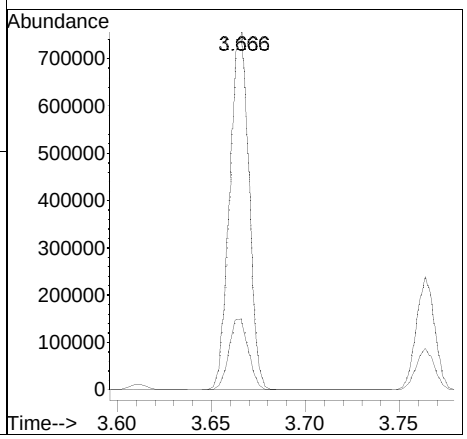


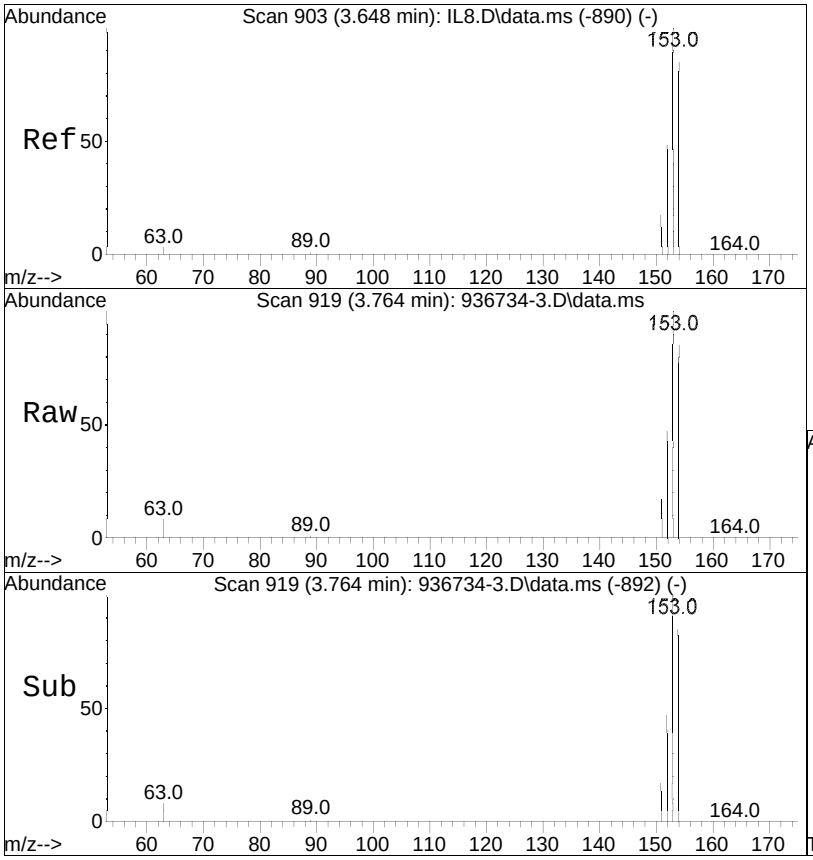


#17
Acenaphthylene
Concen: 1215.80 ng/ml
RT: 3.666 min Scan# 887
Delta R.T. 0.006 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:152 Resp: 533281

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6

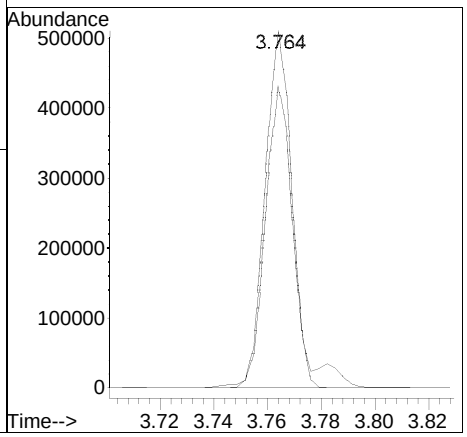


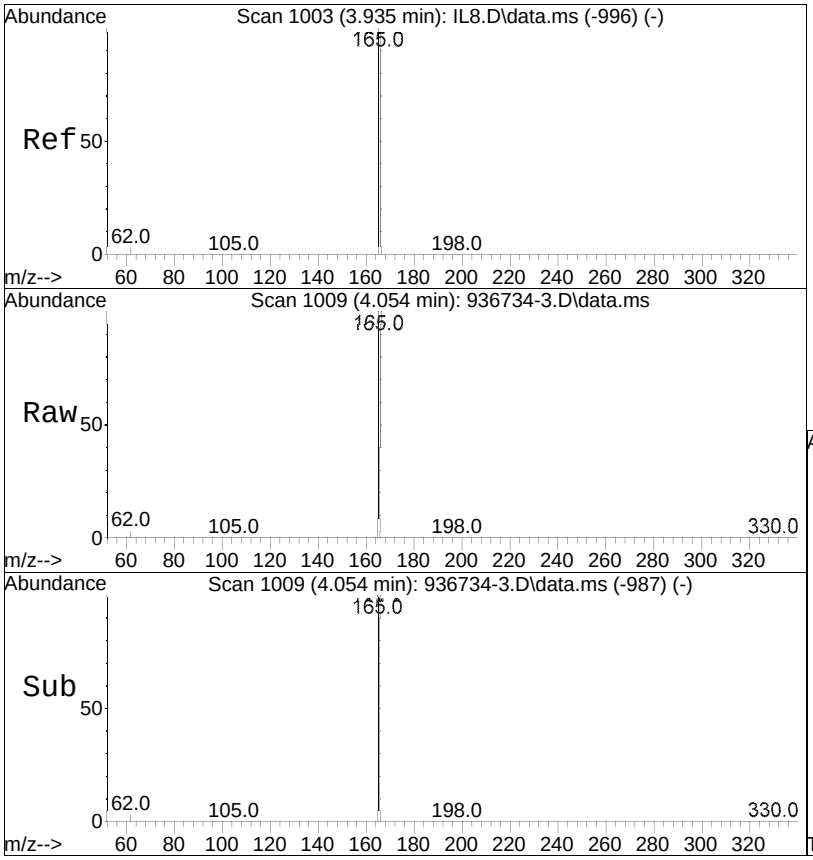


#19
Acenaphthene
Concen: 1225.56 ng/ml
RT: 3.764 min Scan# 919
Delta R.T. 0.003 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:153 Resp: 347553

Ion	Ratio	Lower	Upper
153	100		
154	87.8	68.4	102.6

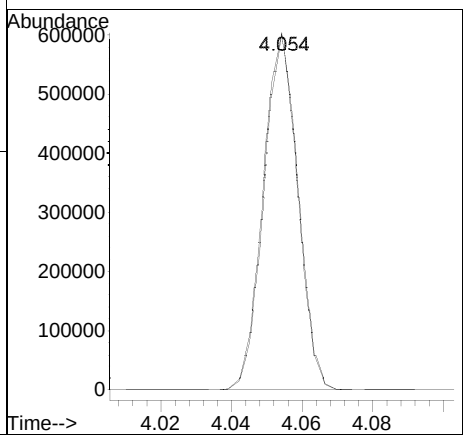


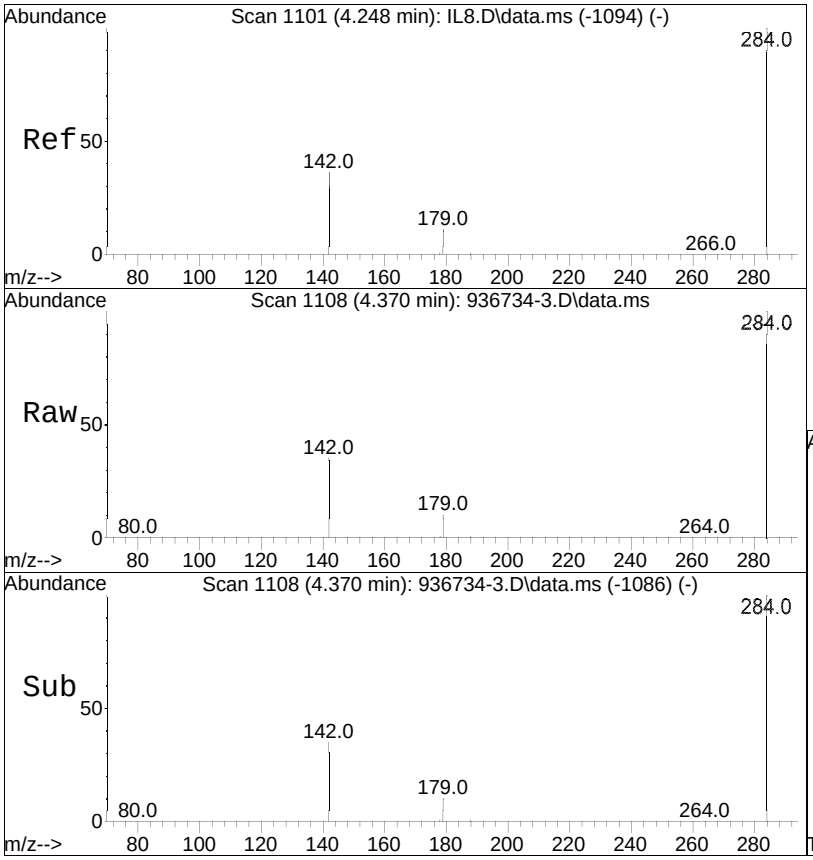


#21
Fluorene
Concen: 1244.45 ng/ml
RT: 4.054 min Scan# 1009
Delta R.T. 0.003 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:166 Resp: 403874

Ion	Ratio	Lower	Upper
166	100		
165	101.0	81.7	122.5

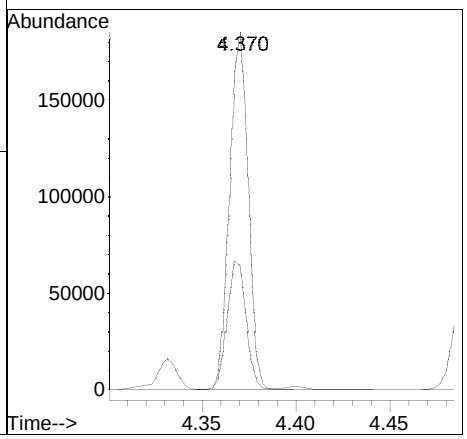


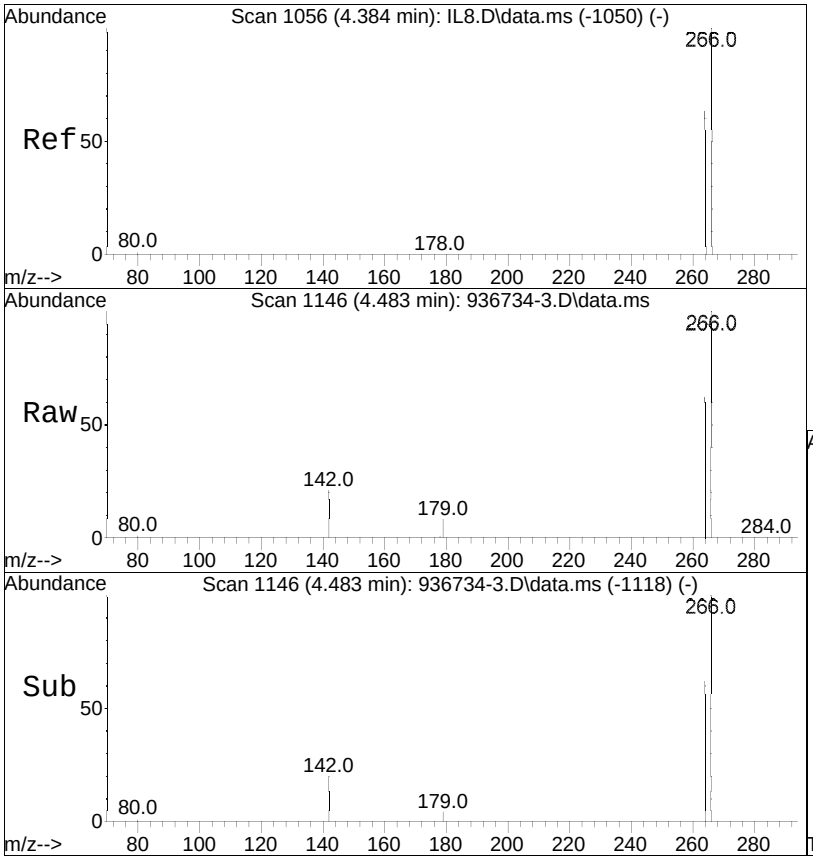


#25
Hexachlorobenzene
Concen: 1060.74 ng/ml
RT: 4.370 min Scan# 1108
Delta R.T. 0.003 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:284 Resp: 125657

Ion	Ratio	Lower	Upper
284	100		
142	37.2	28.2	42.2

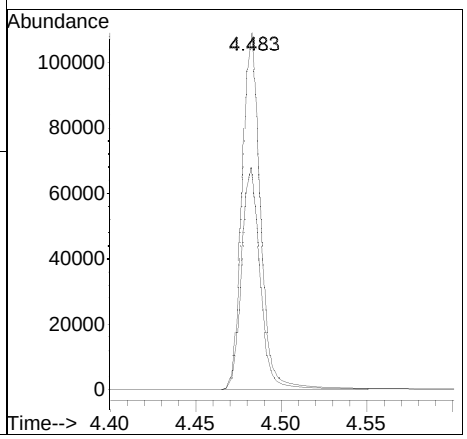


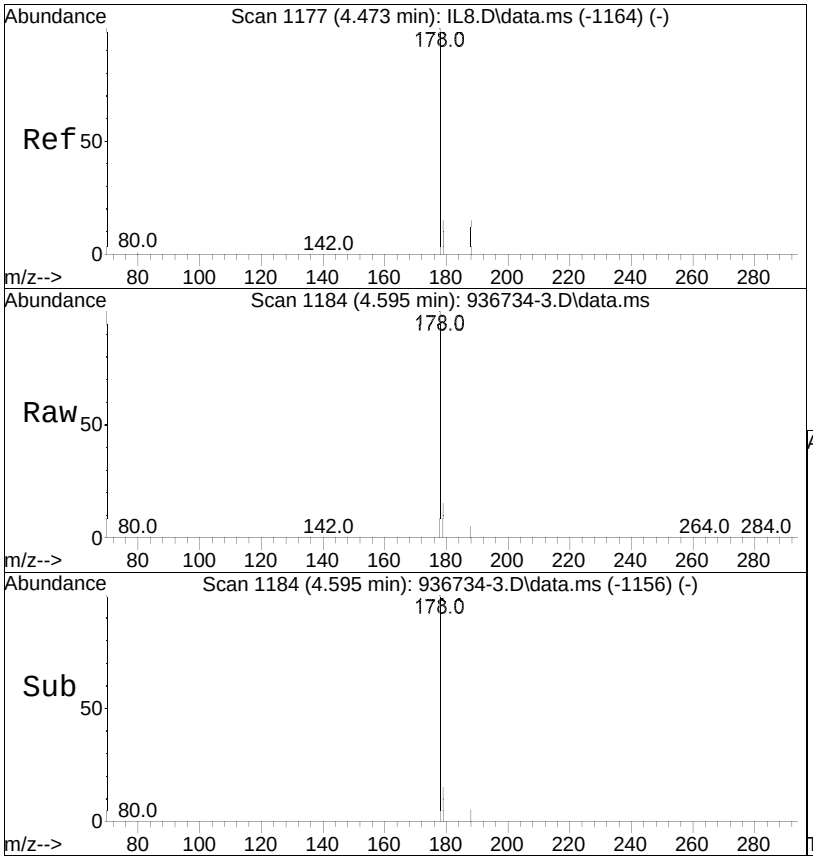


#26
Pentachlorophenol
Concen: 1306.89 ng/ml
RT: 4.483 min Scan# 1146
Delta R.T. 0.003 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:266 Resp: 81659

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.6	76.0

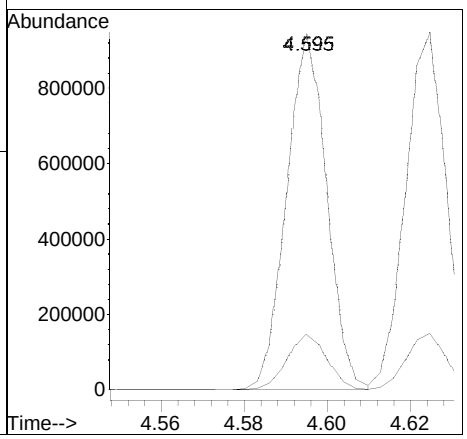


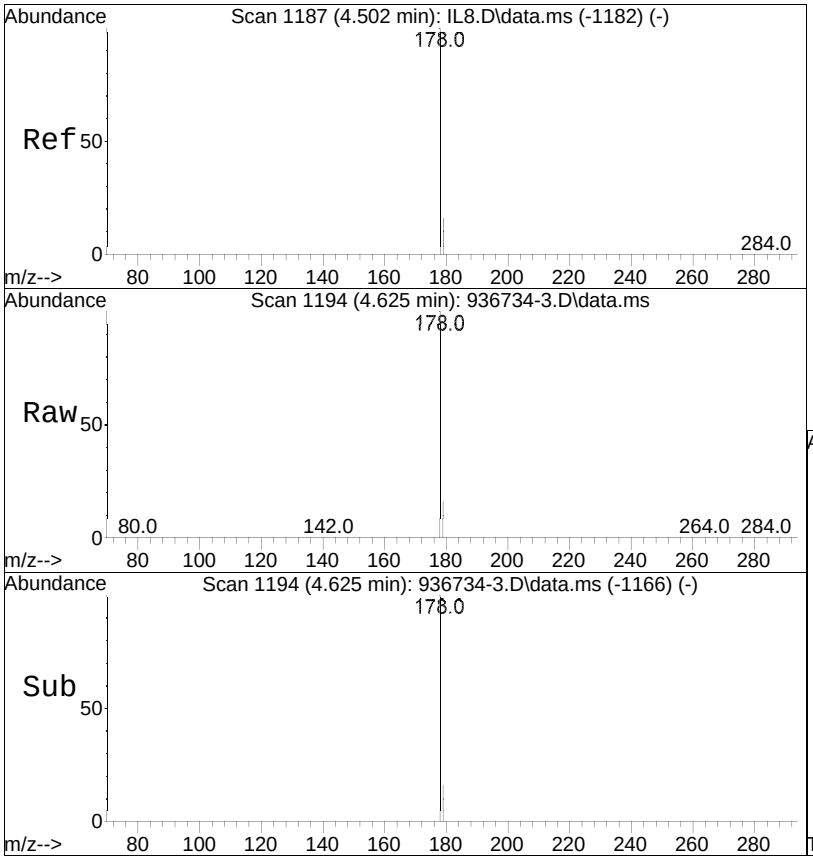


#27
Phenanthrene
Concen: 1275.85 ng/ml
RT: 4.595 min Scan# 1184
Delta R.T. 0.003 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:178 Resp: 631595

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

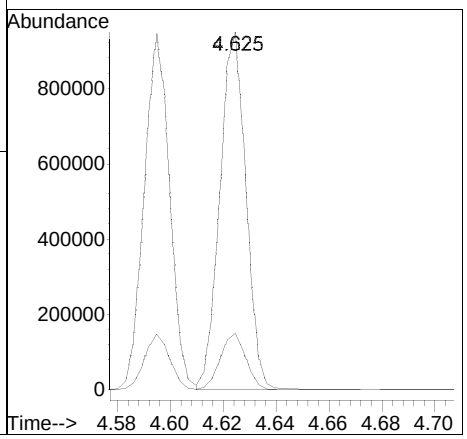


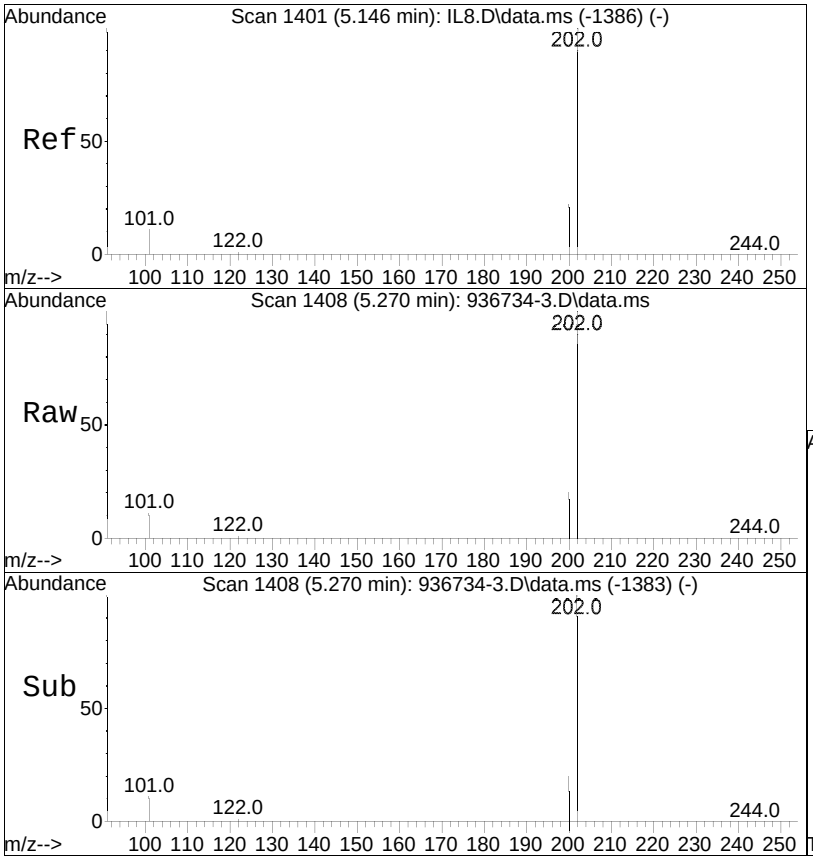


#28
Anthracene
Concen: 1354.38 ng/ml
RT: 4.625 min Scan# 1194
Delta R.T. 0.003 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:178 Resp: 647675

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

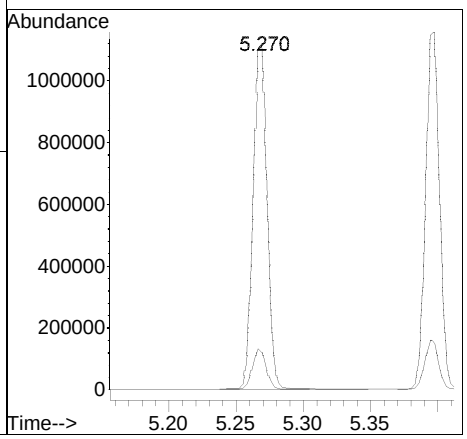


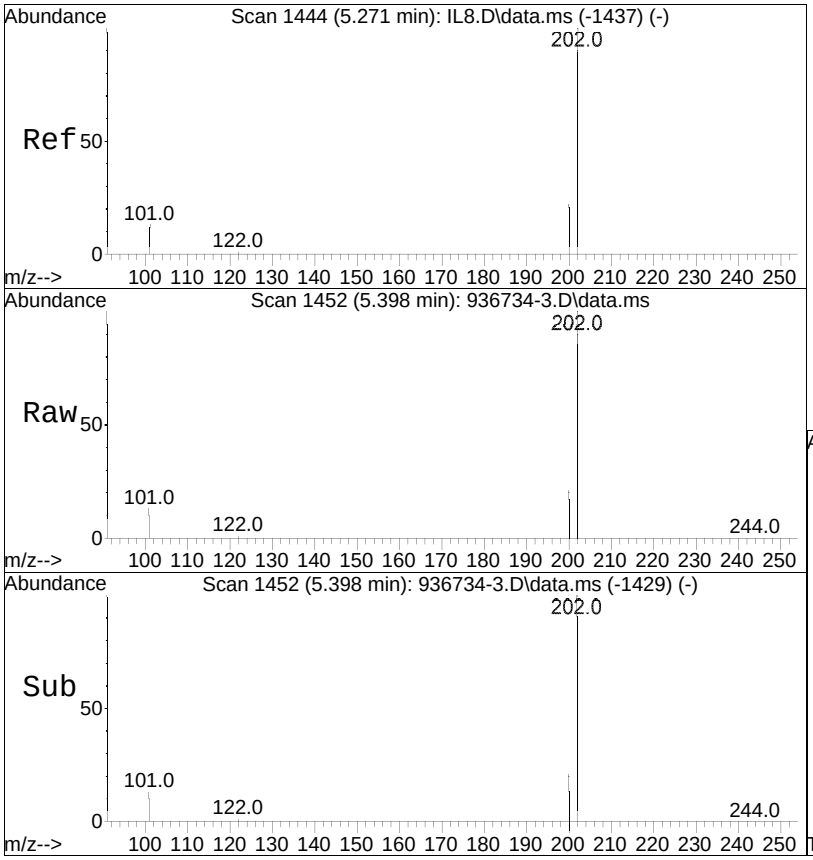


#29
Fluoranthene
Concen: 1412.52 ng/ml
RT: 5.270 min Scan# 1408
Delta R.T. -0.006 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:202 Resp: 810853

Ion	Ratio	Lower	Upper
202	100		
101	11.6	8.7	13.1

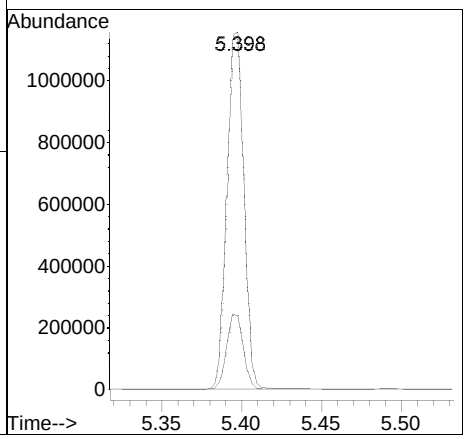


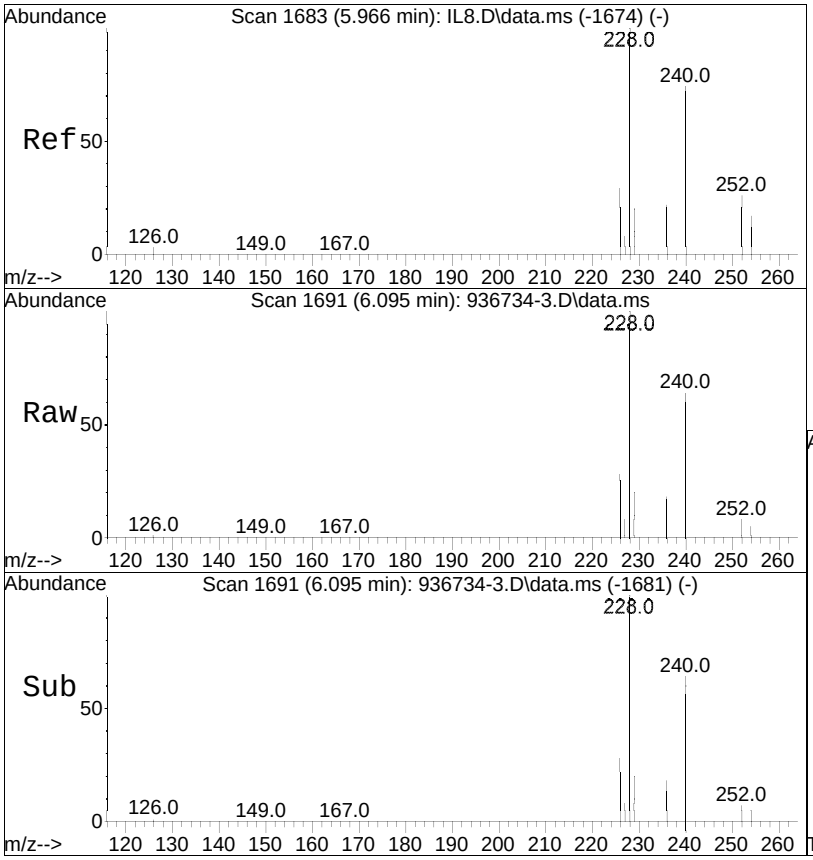


#30
Pyrene
Concen: 1389.09 ng/ml
RT: 5.398 min Scan# 1452
Delta R.T. -0.012 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:202 Resp: 833757

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

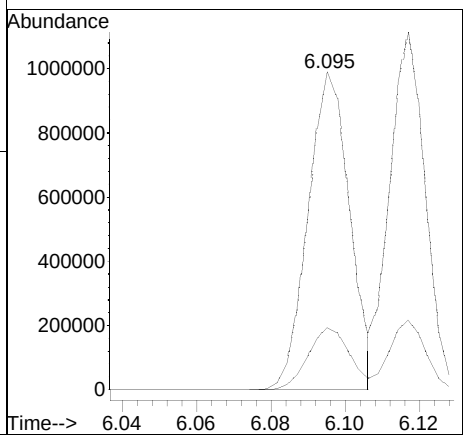


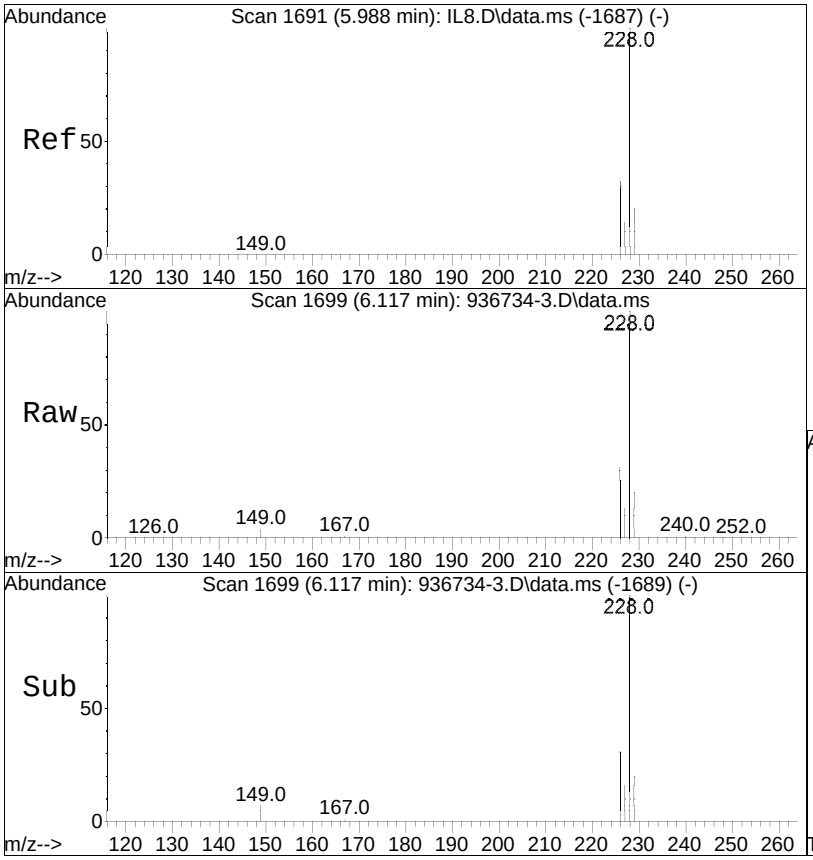


#33
Benzo[a]anthracene
Concen: 1359.87 ng/ml
RT: 6.095 min Scan# 1691
Delta R.T. -0.052 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:228 Resp: 770253

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.8	23.6

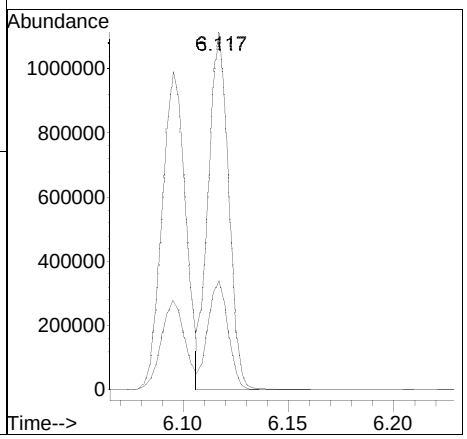


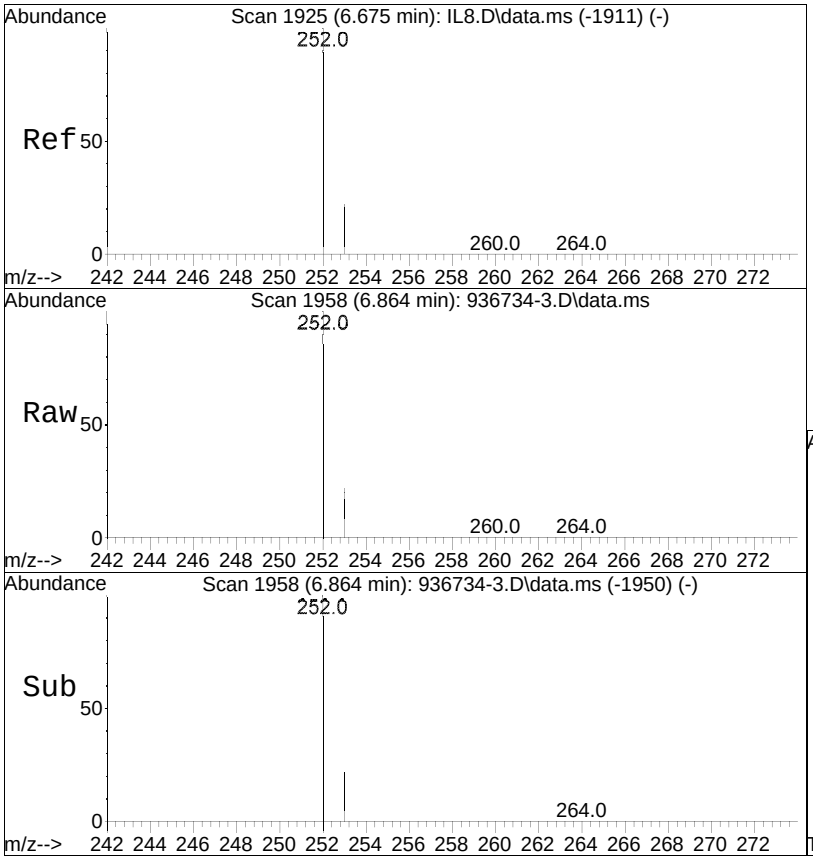


#35
Chrysene
Concen: 1468.58 ng/ml
RT: 6.117 min Scan# 1699
Delta R.T. -0.052 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:228 Resp: 742761

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

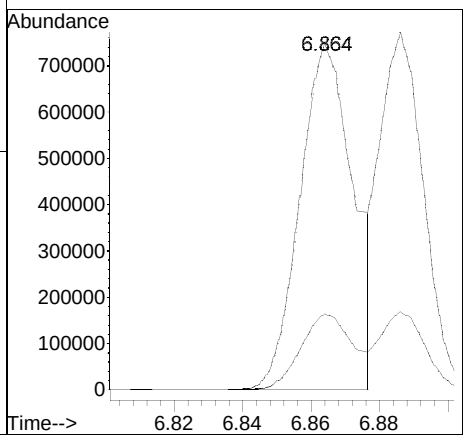


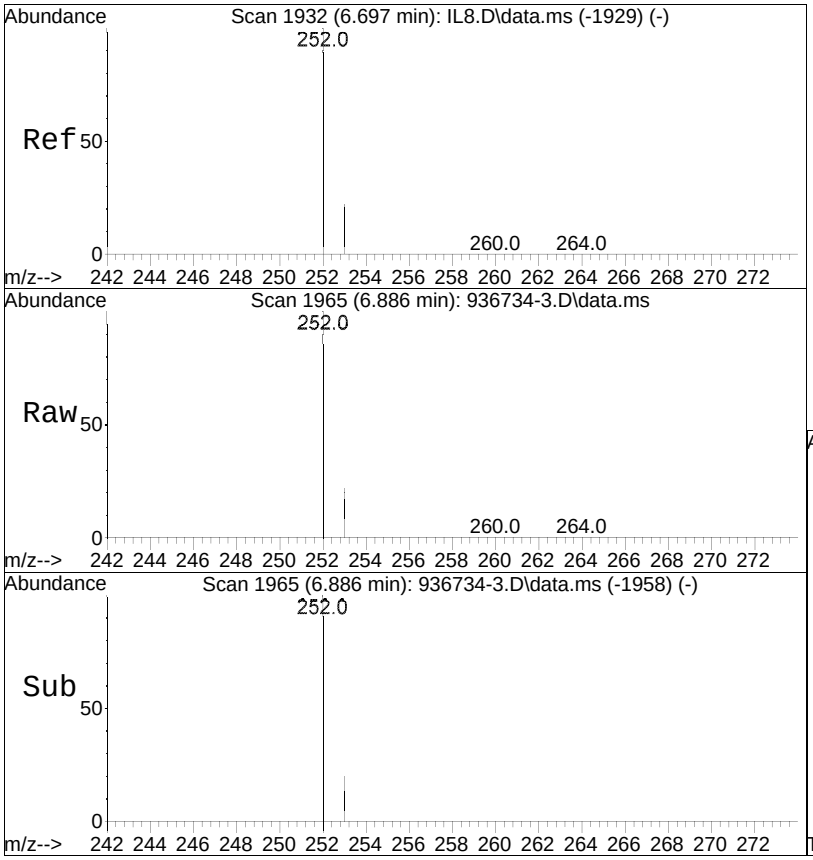


#38
Benzo[b]fluoranthene
Concen: 1544.24 ng/ml
RT: 6.864 min Scan# 1958
Delta R.T. -0.054 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:252 Resp: 816413

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

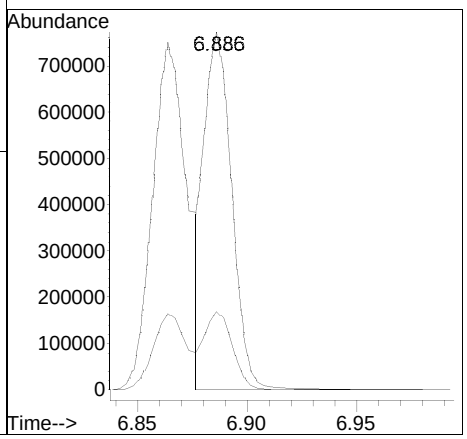


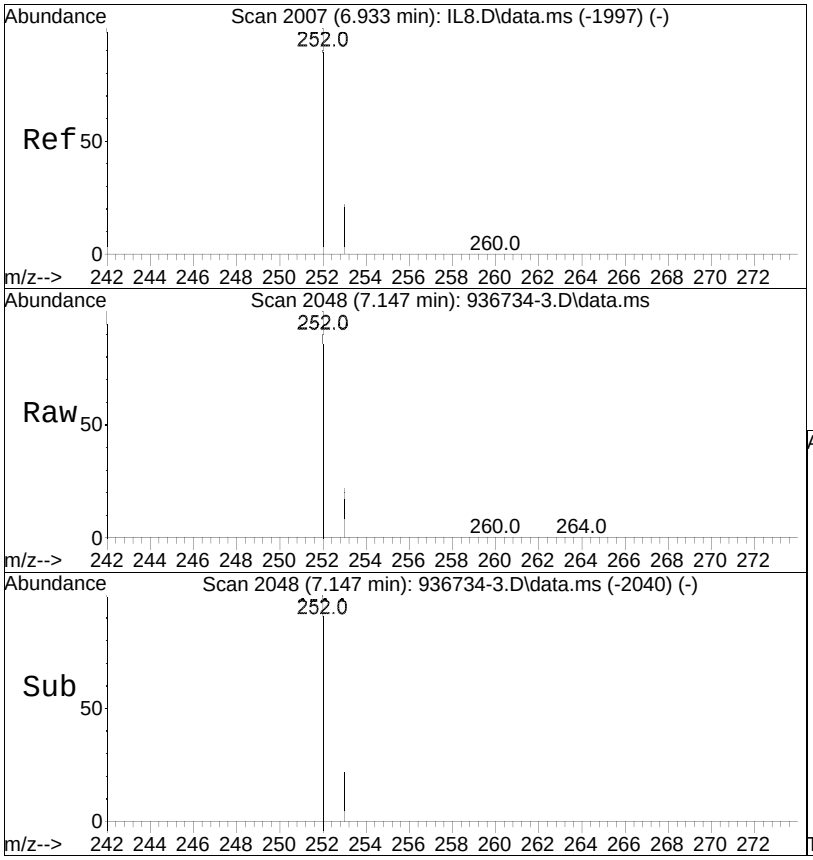


#39
Benzo[k]fluoranthene
Concen: 1370.85 ng/ml
RT: 6.886 min Scan# 1965
Delta R.T. -0.057 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:252 Resp: 675967

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5

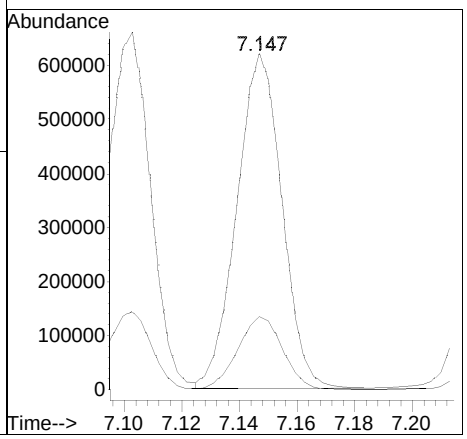


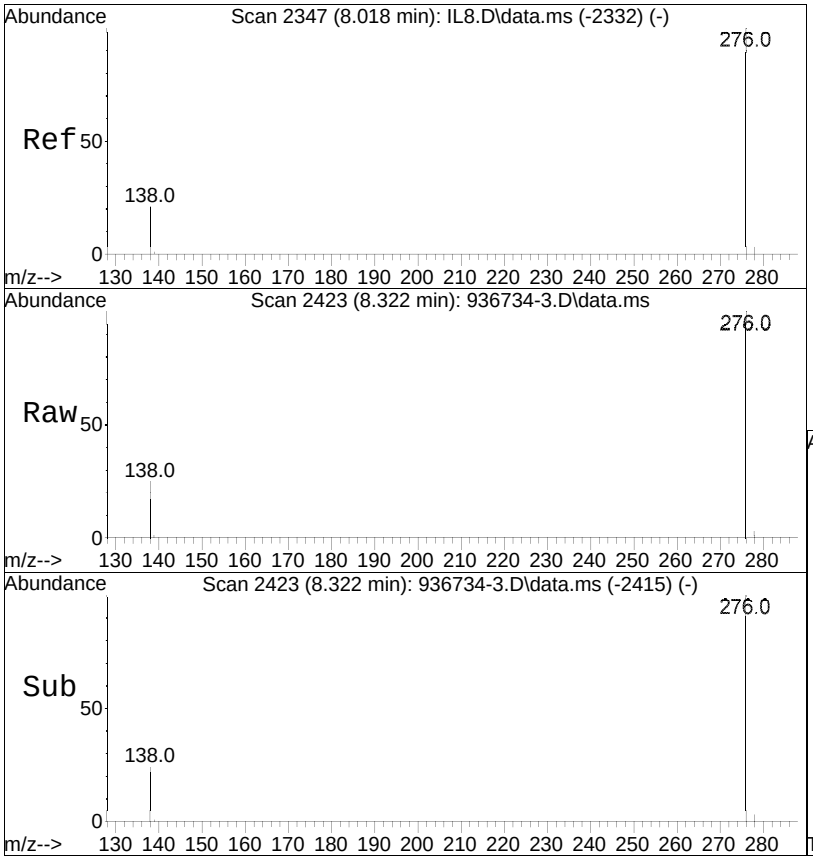


#40
Benzo[a]pyrene
Concen: 1523.26 ng/ml
RT: 7.147 min Scan# 2048
Delta R.T. -0.054 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:252 Resp: 667792

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

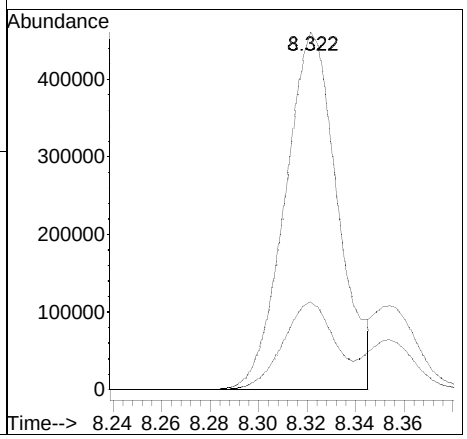


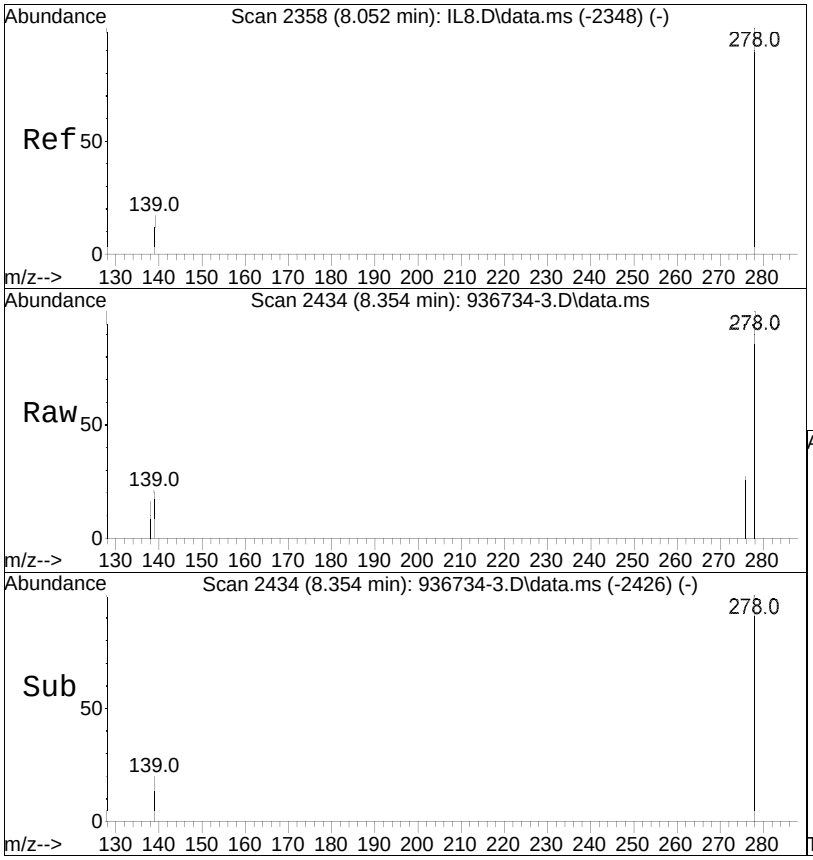


#41
Indeno[1,2,3-cd]pyrene
Concen: 1583.10 ng/ml
RT: 8.322 min Scan# 2423
Delta R.T. -0.056 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:276 Resp: 691339

Ion	Ratio	Lower	Upper
276	100		
138	24.2	16.2	24.4

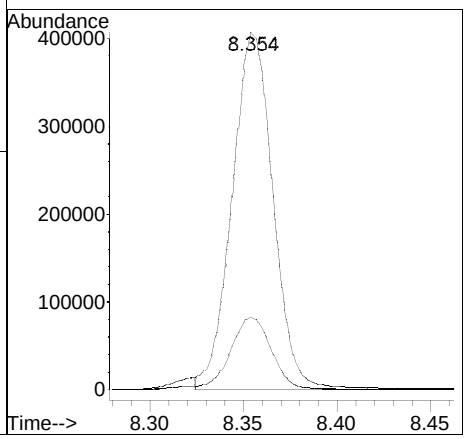


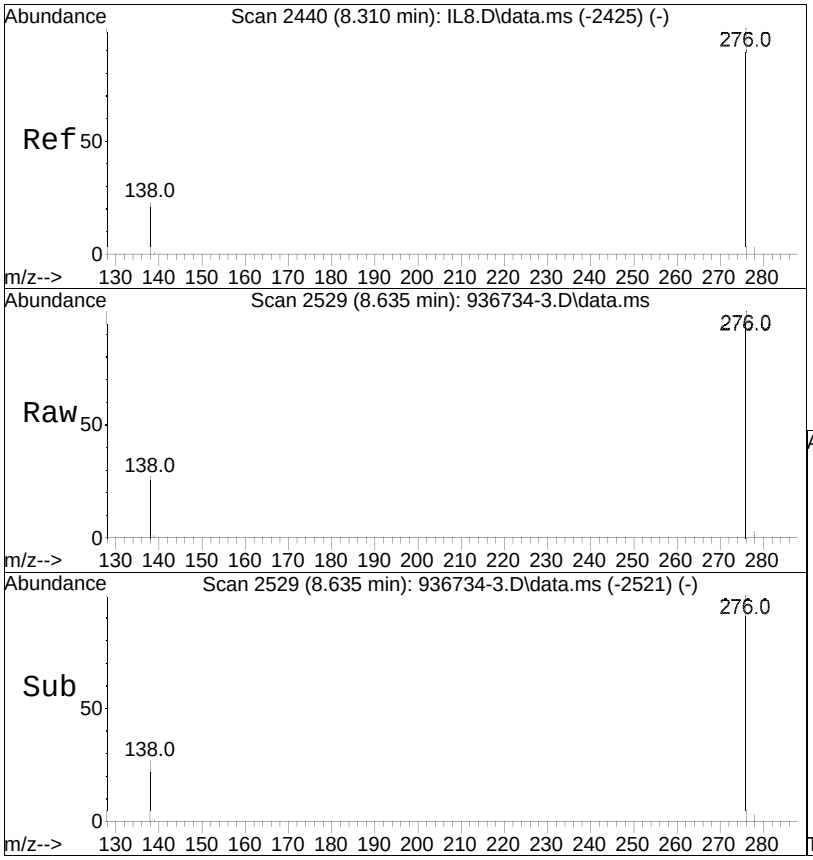


#42
Dibenzo[a,h]anthracene
Concen: 1521.36 ng/ml M6
RT: 8.354 min Scan# 2434
Delta R.T. -0.056 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:278 Resp: 615883

Ion	Ratio	Lower	Upper
278	100		
139	21.0	14.5	21.7

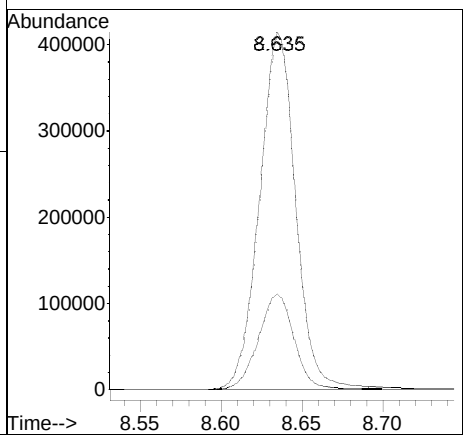




#43
Benzo[g,h,i]perylene
Concen: 1439.78 ng/ml
RT: 8.635 min Scan# 2529
Delta R.T. -0.056 min
Lab File: 936734-3.D
Acq: 20 Jun 2024 01:36 pm

Tgt Ion:276 Resp: 632793

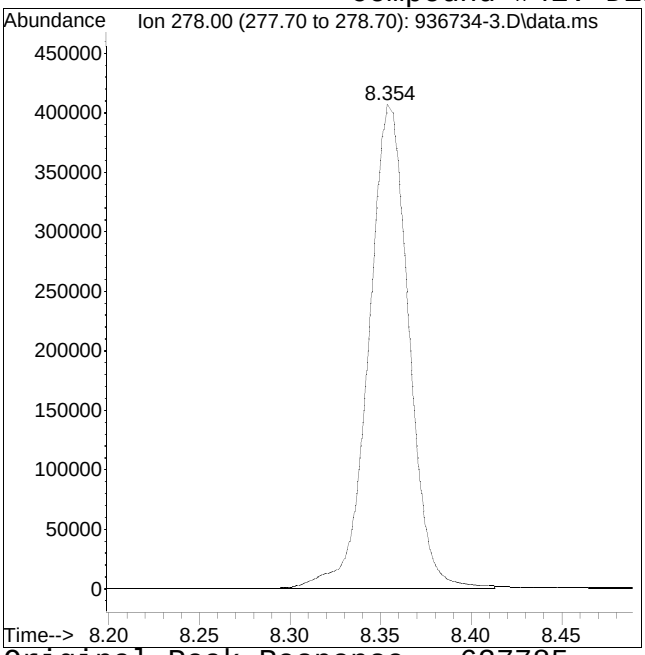
Ion	Ratio	Lower	Upper
276	100		
138	26.7	18.5	27.7



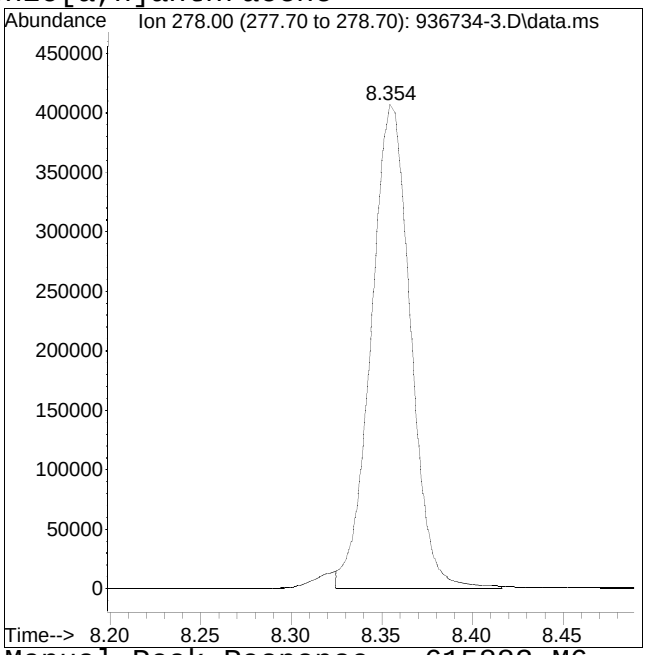
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936734-3.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 1:36 pm Instrument : SV125
Sample : WG1936734-3,32,,jjw Quant Date : 6/20/2024 1:50 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 627785



Manual Peak Response = 615883 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-3.D
Acq On : 20 Jun 2024 09:10 pm
Operator : SV125:jjw
Sample : WG1936909-3,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 21 09:11:49 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.107	152	431097	4000.000	ng/ml	0.01
Standard Area 1 = 473486			Recovery = 91.05%			
9) Naphthalene-d8	2.768	136	1658316	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 91.09%			
18) Acenaphthene-d10	3.749	164	899901	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 86.72%			
23) Phenanthrene-d10	4.583	188	1756390	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 83.10%			
32) Chrysene-d12	6.096	240	1414420M1	4000.000	ng/ml	-0.06
Standard Area 1 = 1598607			Recovery = 88.48%			
37) Perylene-d12	7.198	264	1600902	4000.000	ng/ml	-0.07
Standard Area 1 = 1571336			Recovery = 101.88%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.528	112	91728	719.434	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.39%#			
4) Phenol-d6	1.927	99	91340	618.786	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 12.38%#			
8) Nitrobenzene-d5	2.385	82	99194	829.556	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 33.18%			
14) 2-Fluorobiphenyl	3.370	172	240892	632.613	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 25.30%#			
22) 2,4,6-Tribromophenol	4.195	330	49182	979.744	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.59%			
31) 4-Terphenyl-d14	5.491	244	233406	650.347	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 26.01%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	1.972	93	186103	1414.769	ng/ml	94
7) Hexachloroethane	2.362	117	67832	1160.140	ng/ml	99
10) Naphthalene	2.781	128	571219	1233.806	ng/ml#	100
11) Hexachlorobutadiene	2.854	225	88768	1006.175	ng/ml	100
12) 2-Methylnaphthalene	3.163	142	395699	1334.254	ng/ml	99
15) 2-Chloronaphthalene	3.434	162	393599	1193.212	ng/ml	90
17) Acenaphthylene	3.667	152	640557	1305.290	ng/ml	99
19) Acenaphthene	3.764	153	423288	1375.782	ng/ml	99
21) Fluorene	4.055	166	476119	1352.216	ng/ml	99
25) Hexachlorobenzene	4.371	284	146081	1201.941	ng/ml	96

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-3.D
Acq On : 20 Jun 2024 09:10 pm
Operator : SV125:jjw
Sample : WG1936909-3,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 21 09:11:49 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	4.486	266	35234	565.400	ng/ml	100
27) Phenanthrene	4.598	178	676654	1332.276	ng/ml	100
28) Anthracene	4.625	178	707551	1442.136	ng/ml	100
29) Fluoranthene	5.270	202	819489	1391.430	ng/ml	98
30) Pyrene	5.395	202	848324	1377.588	ng/ml	99
33) Benzo[a]anthracene	6.090	228	794662	1404.986	ng/ml	100
35) Chrysene	6.112	228	736872	1458.749	ng/ml	98
38) Benzo[b]fluoranthene	6.859	252	799446	1434.575	ng/ml	100
39) Benzo[k]fluoranthene	6.881	252	756717	1455.883	ng/ml	100
40) Benzo[a]pyrene	7.142	252	733047	1586.327	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.316	276	828454	1799.757	ng/ml#	89
42) Dibenzo[a,h]anthracene	8.349	278	744643M6	1745.060	ng/ml	
43) Benzo[g,h,i]perylene	8.629	276	786336	1697.345	ng/ml	92

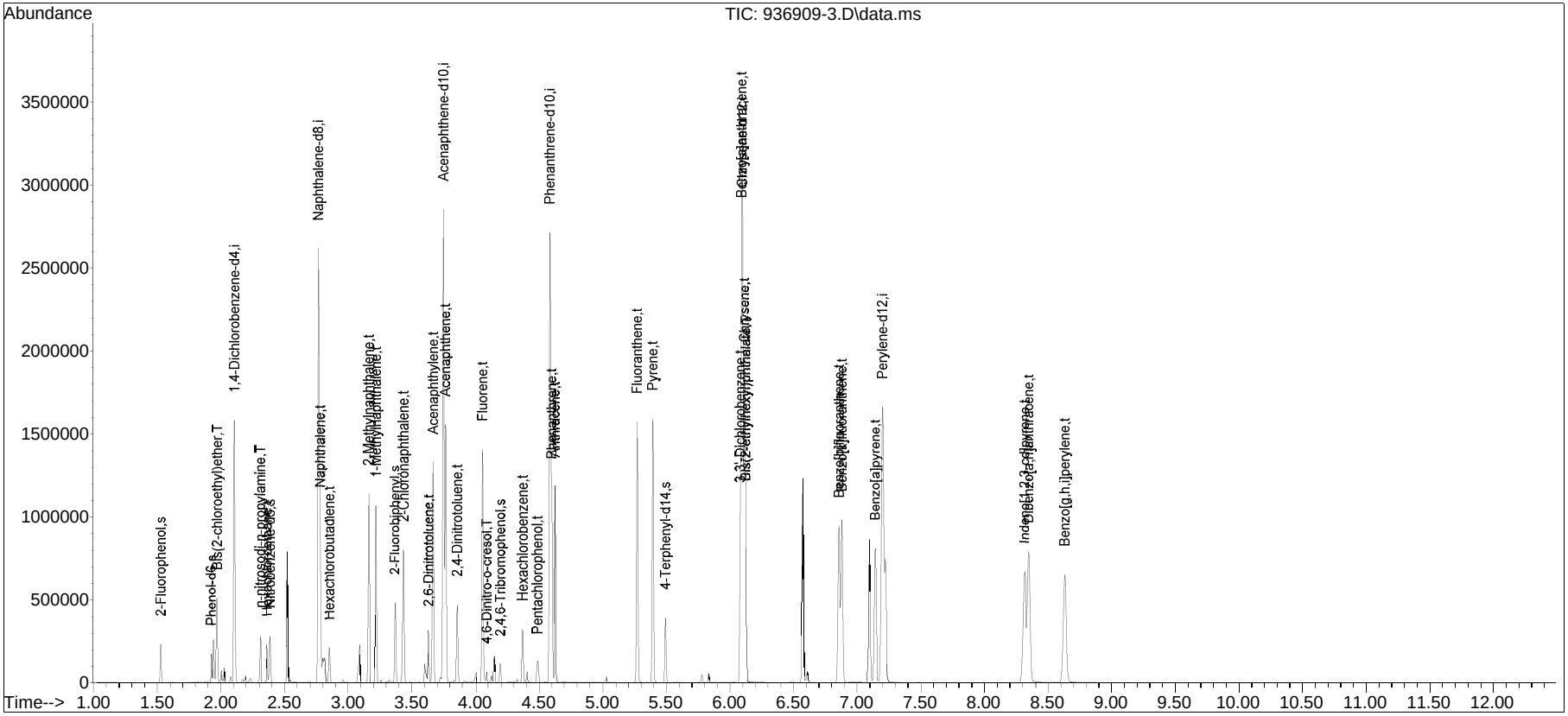
(#) = qualifier out of range (m) = manual integration (+) = signals summed

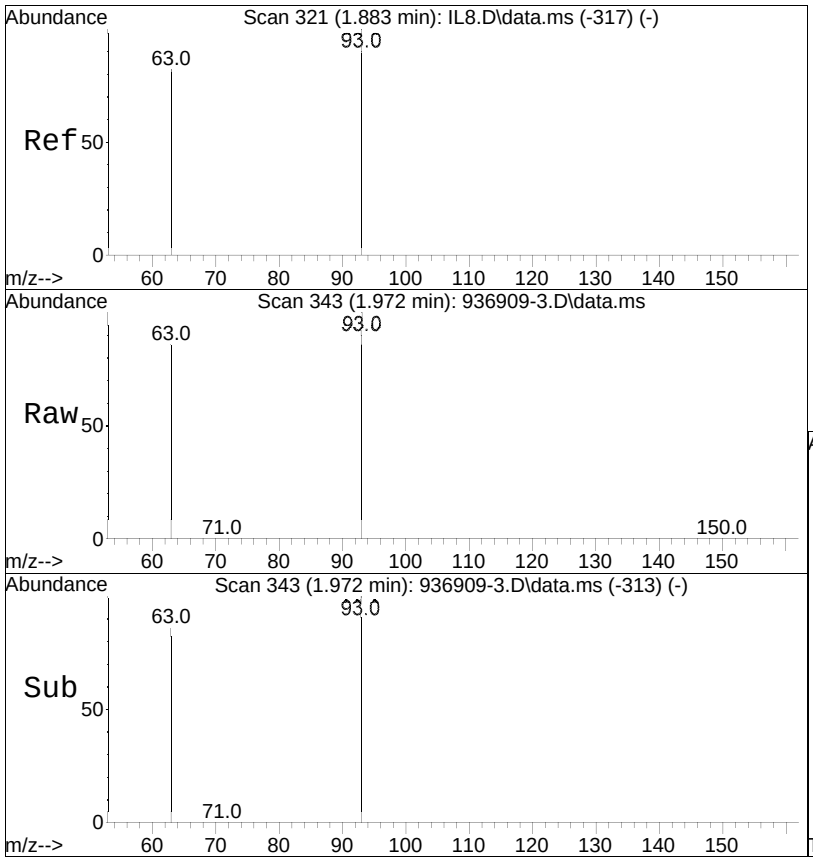
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-3.D
Acq On : 20 Jun 2024 09:10 pm
Operator : SV125:jjw
Sample : WG1936909-3,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 21 09:11:49 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

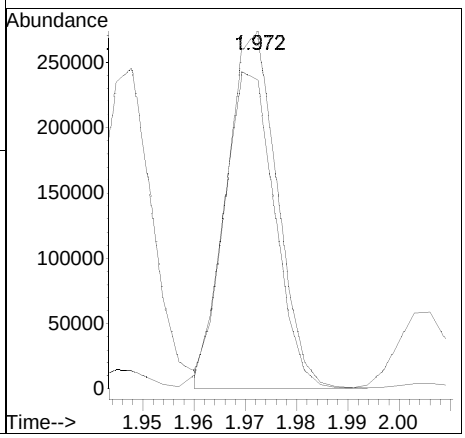


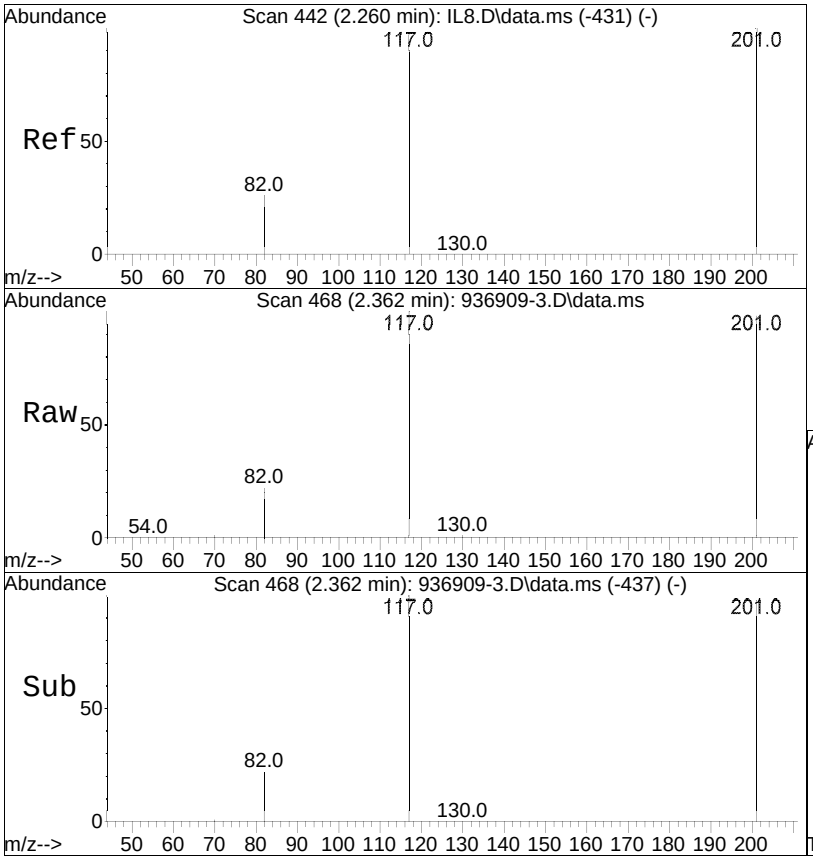


#5
Bis(2-chloroethyl)ether
Concen: 1414.77 ng/ml
RT: 1.972 min Scan# 343
Delta R.T. 0.012 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion: 93 Resp: 186103

Ion	Ratio	Lower	Upper
93	100		
63	90.0	67.7	101.5

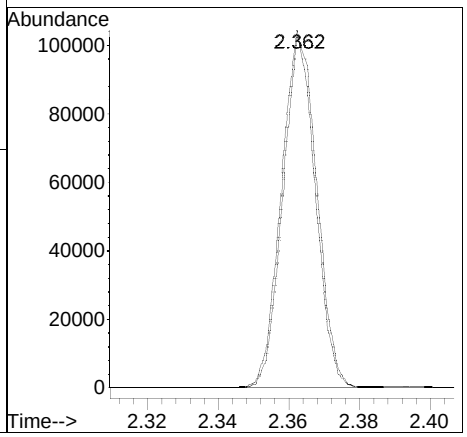


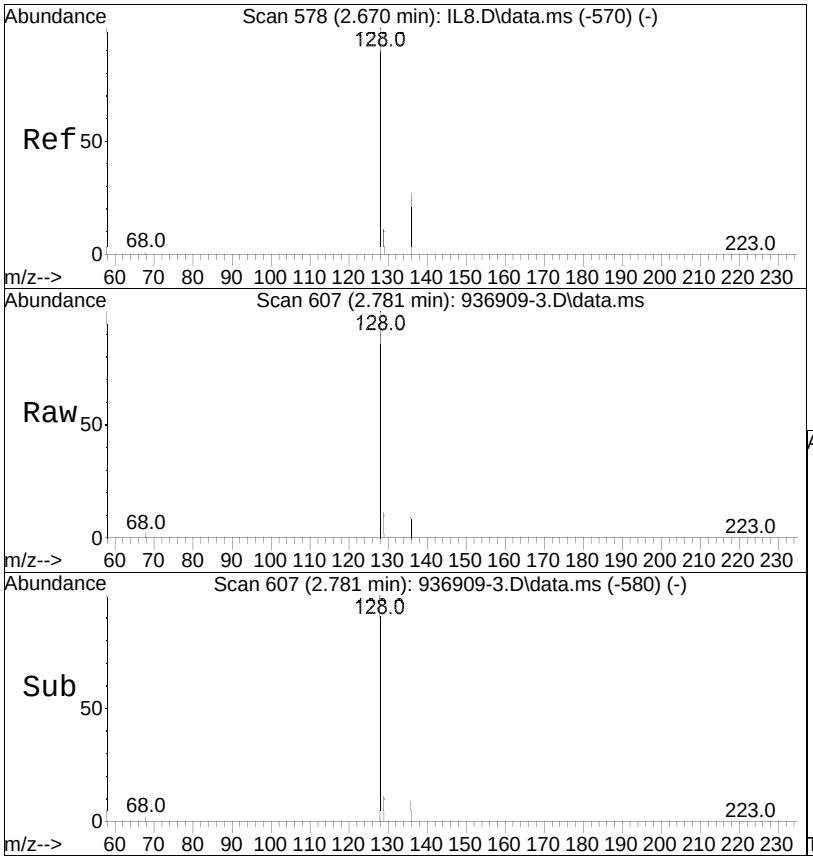


#7
Hexachloroethane
Concen: 1160.14 ng/ml
RT: 2.362 min Scan# 468
Delta R.T. 0.009 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:117 Resp: 67832

Ion	Ratio	Lower	Upper
117	100		
201	100.0	80.8	121.2

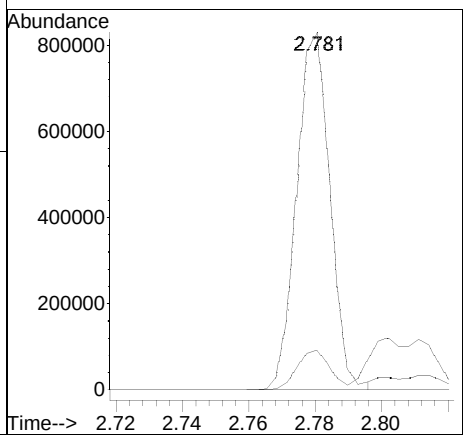


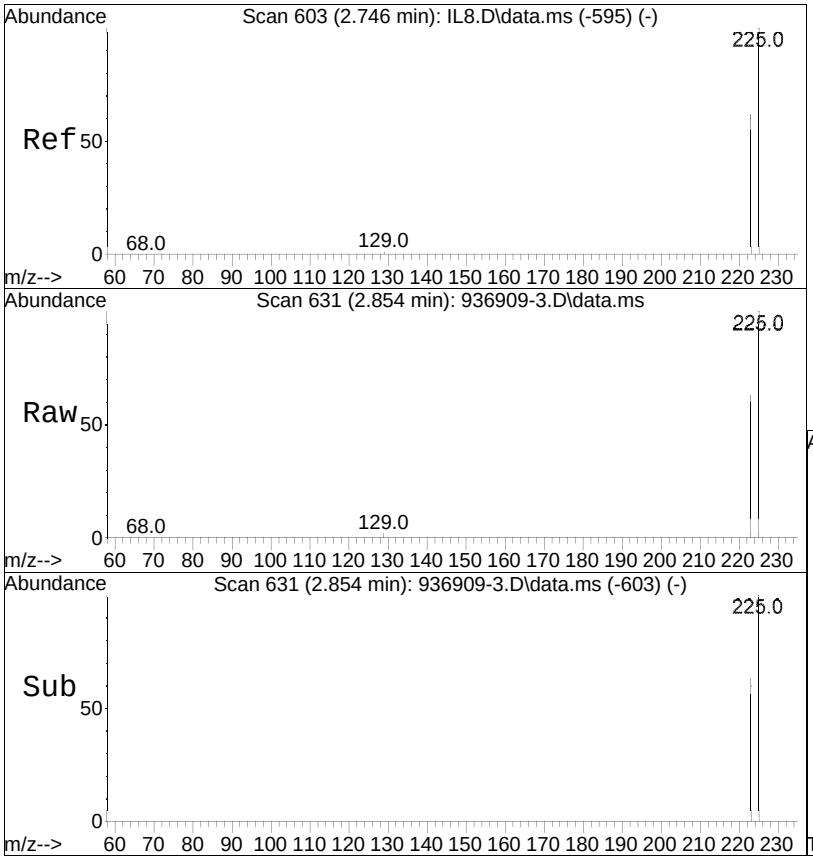


#10
Naphthalene
Concen: 1233.81 ng/ml
RT: 2.781 min Scan# 607
Delta R.T. 0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:128 Resp: 571219

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

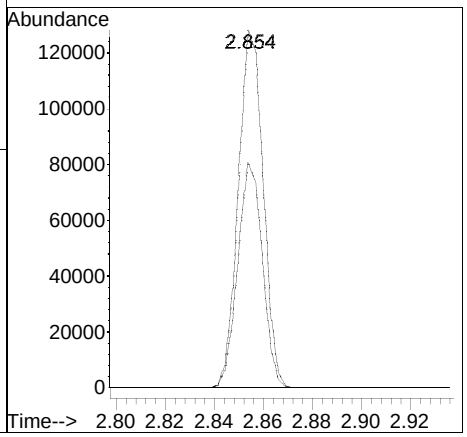


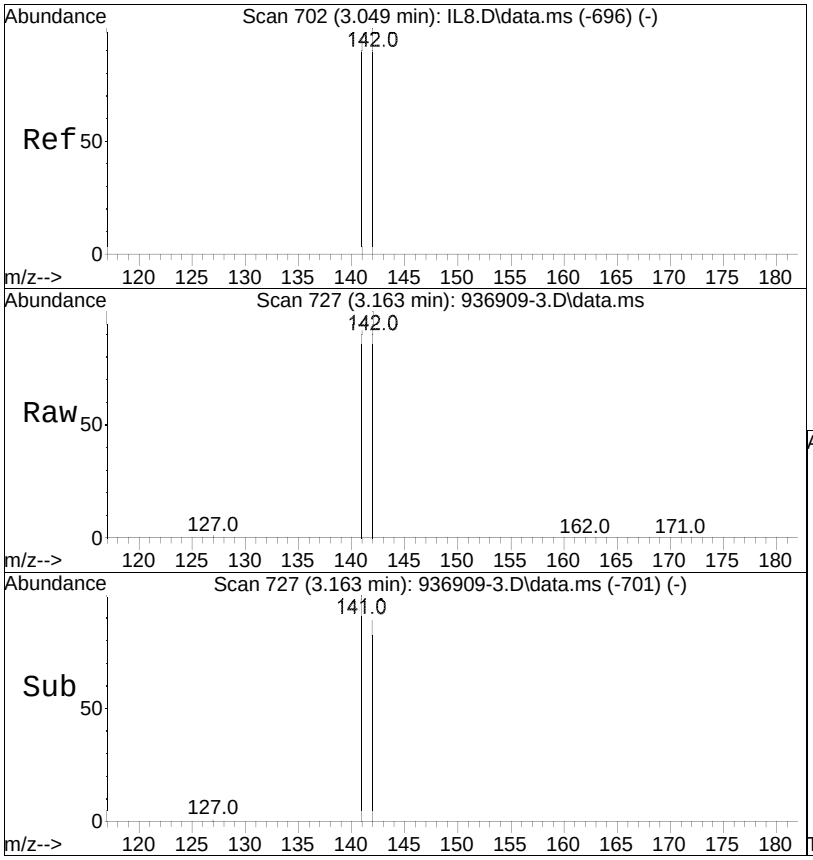


#11
Hexachlorobutadiene
Concen: 1006.17 ng/ml
RT: 2.854 min Scan# 631
Delta R.T. 0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:225 Resp: 88768

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.2	75.4

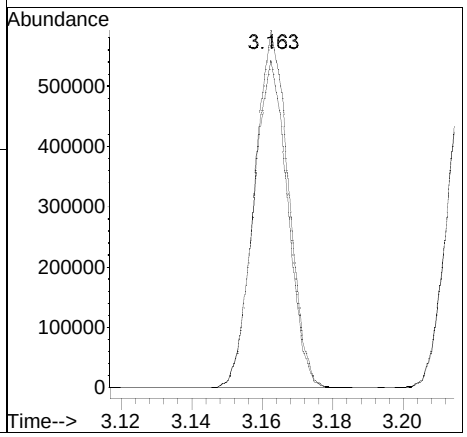


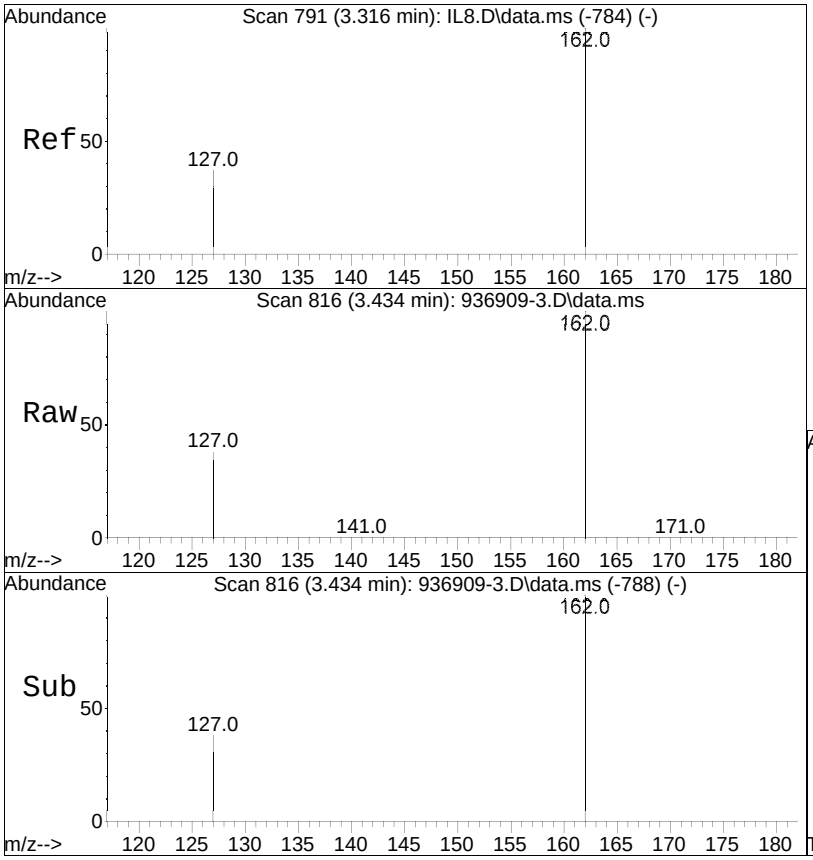


#12
2-Methylnaphthalene
Concen: 1334.25 ng/ml
RT: 3.163 min Scan# 727
Delta R.T. 0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:142 Resp: 395699

Ion	Ratio	Lower	Upper
142	100		
141	91.9	74.4	111.6

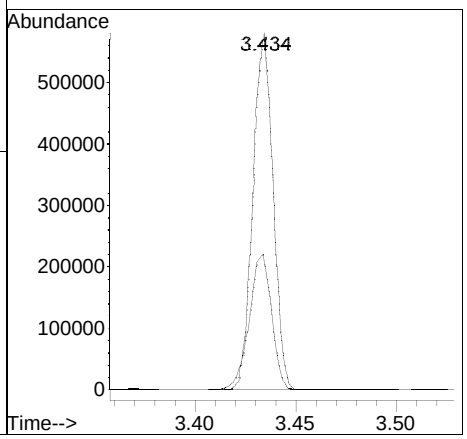


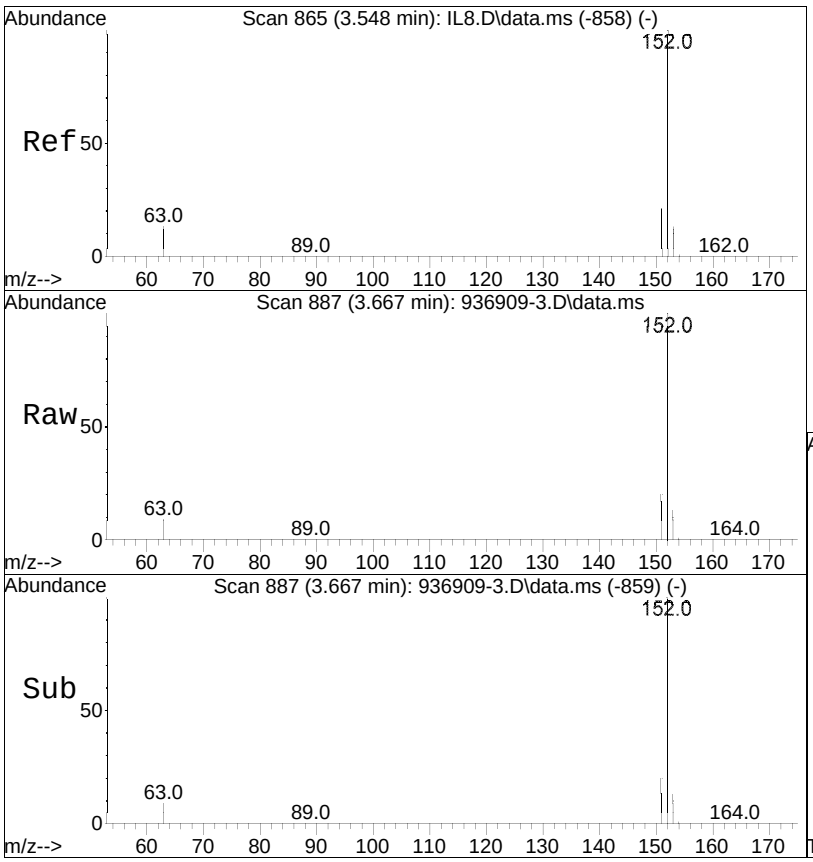


#15
2-Chloronaphthalene
Concen: 1193.21 ng/ml
RT: 3.434 min Scan# 816
Delta R.T. 0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:162 Resp: 393599

Ion	Ratio	Lower	Upper
162	100		
127	42.2	29.2	43.8

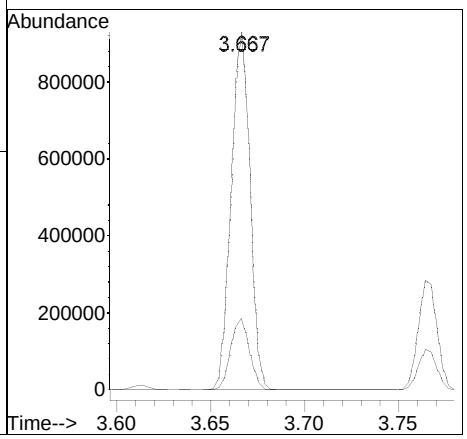


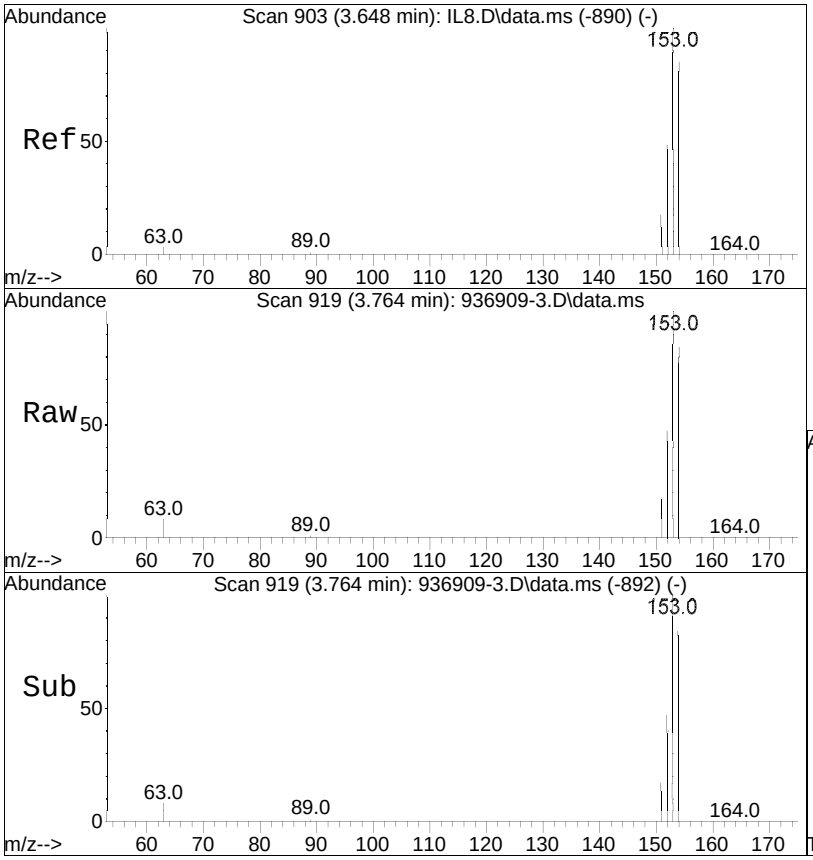


#17
Acenaphthylene
Concen: 1305.29 ng/ml
RT: 3.667 min Scan# 887
Delta R.T. 0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:152 Resp: 640557

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6

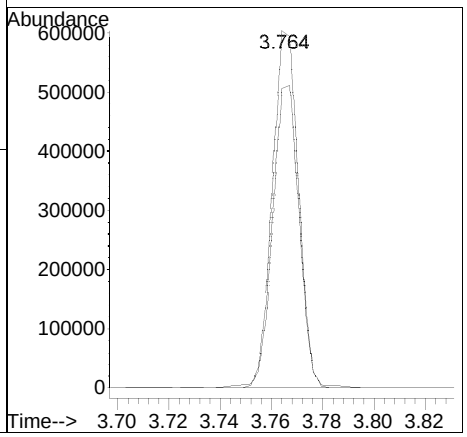


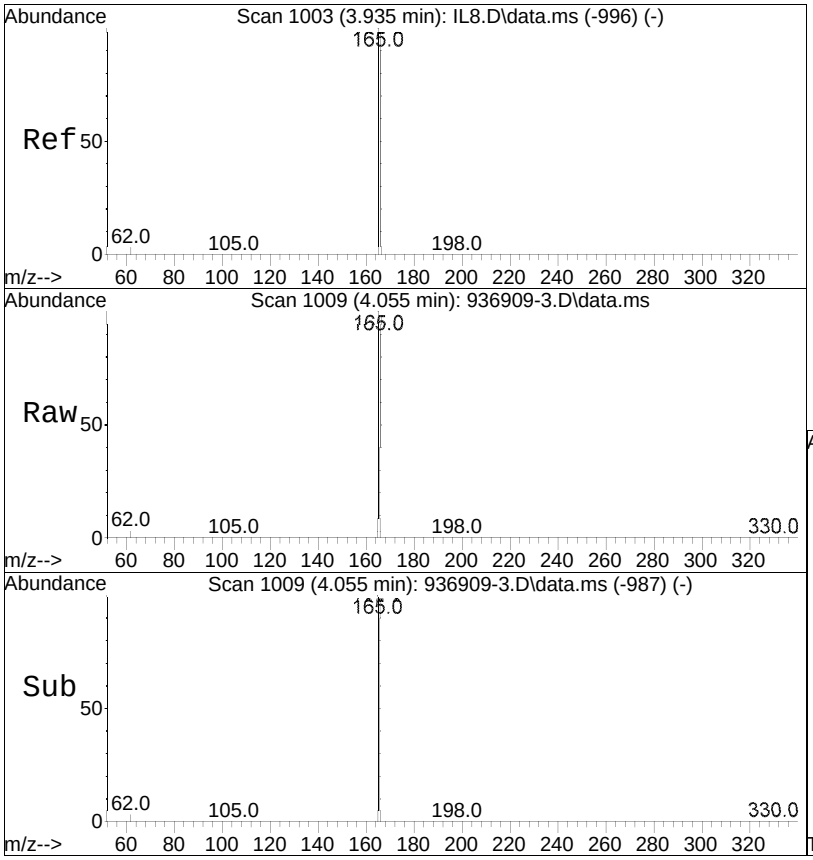


#19
Acenaphthene
Concen: 1375.78 ng/ml
RT: 3.764 min Scan# 919
Delta R.T. 0.003 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:153 Resp: 423288

Ion	Ratio	Lower	Upper
153	100		
154	86.2	68.4	102.6

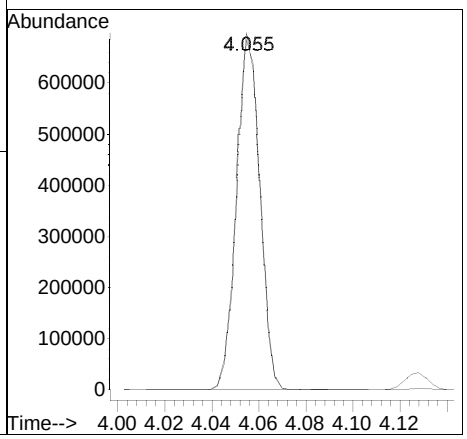


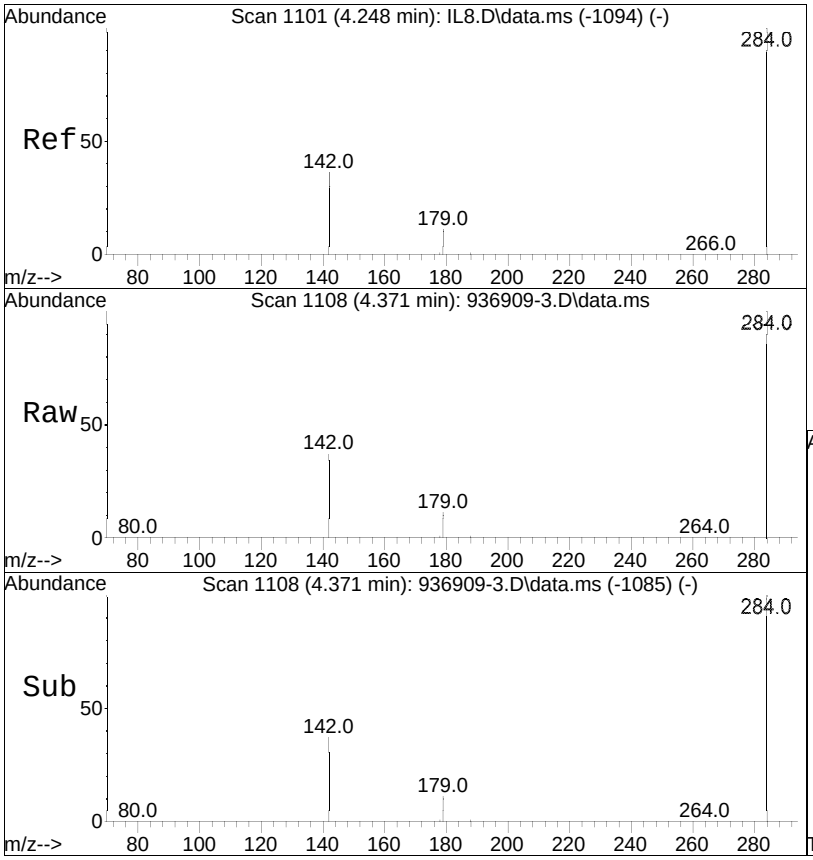


#21
Fluorene
Concen: 1352.22 ng/ml
RT: 4.055 min Scan# 1009
Delta R.T. 0.003 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:166 Resp: 476119

Ion	Ratio	Lower	Upper
166	100		
165	100.8	81.7	122.5

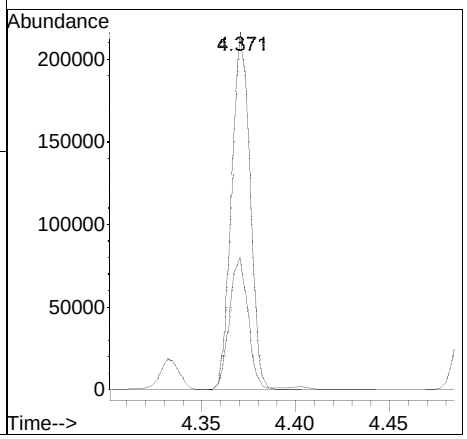


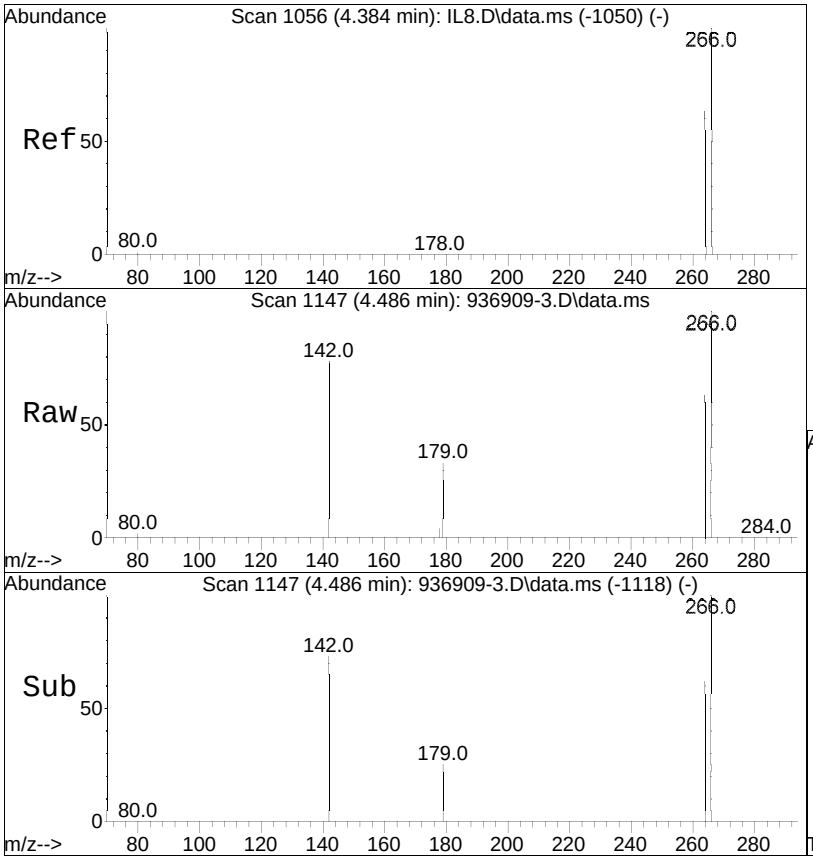


#25
Hexachlorobenzene
Concen: 1201.94 ng/ml
RT: 4.371 min Scan# 1108
Delta R.T. 0.003 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:284 Resp: 146081

Ion	Ratio	Lower	Upper
284	100		
142	37.6	28.2	42.2

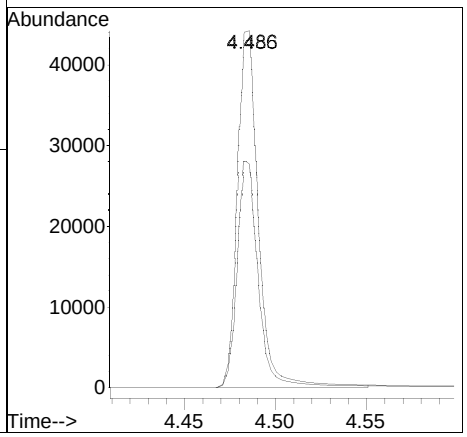


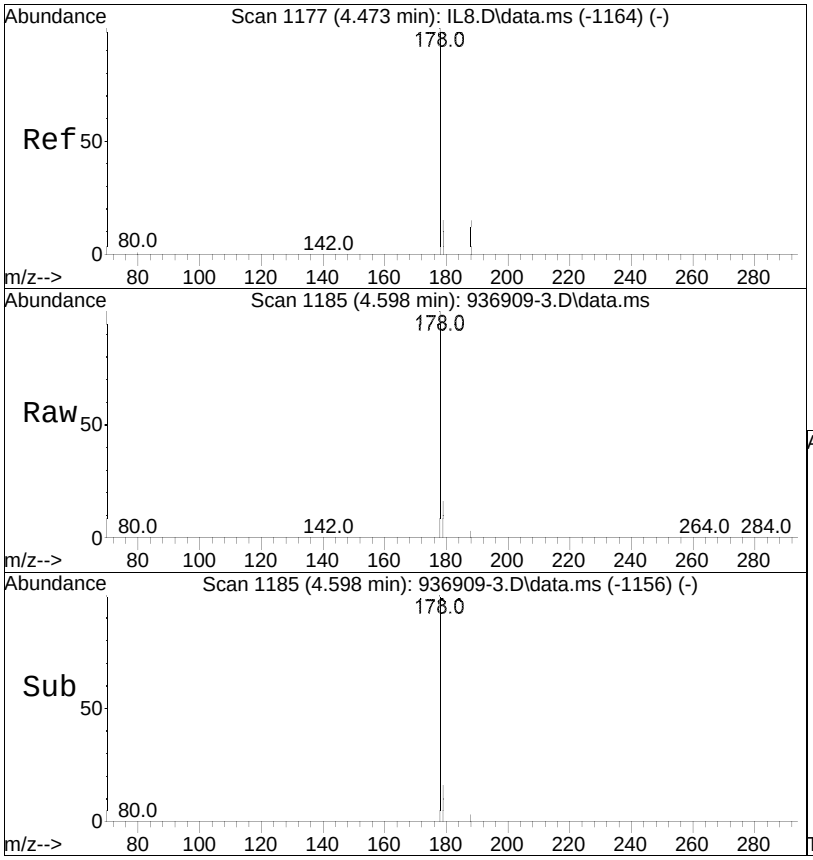


#26
Pentachlorophenol
Concen: 565.40 ng/ml
RT: 4.486 min Scan# 1147
Delta R.T. 0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:266 Resp: 35234

Ion	Ratio	Lower	Upper
266	100		
264	63.7	50.6	76.0

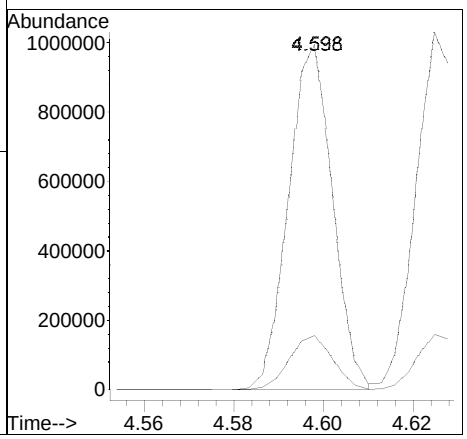


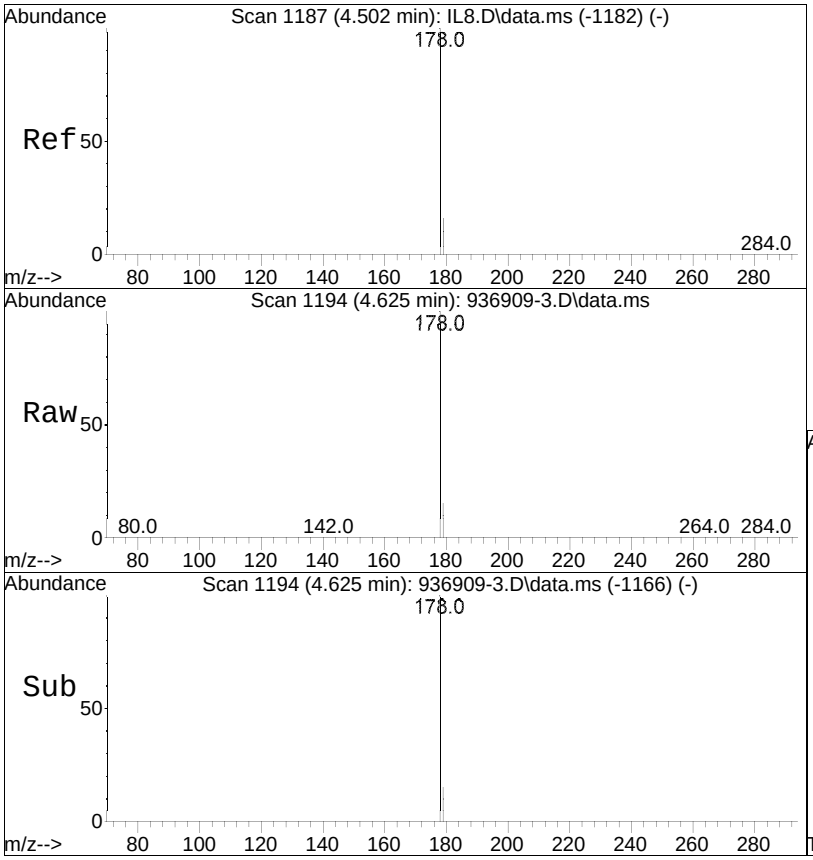


#27
Phenanthrene
Concen: 1332.28 ng/ml
RT: 4.598 min Scan# 1185
Delta R.T. 0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:178 Resp: 676654

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

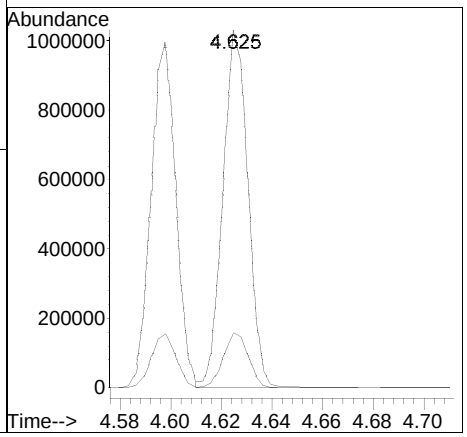


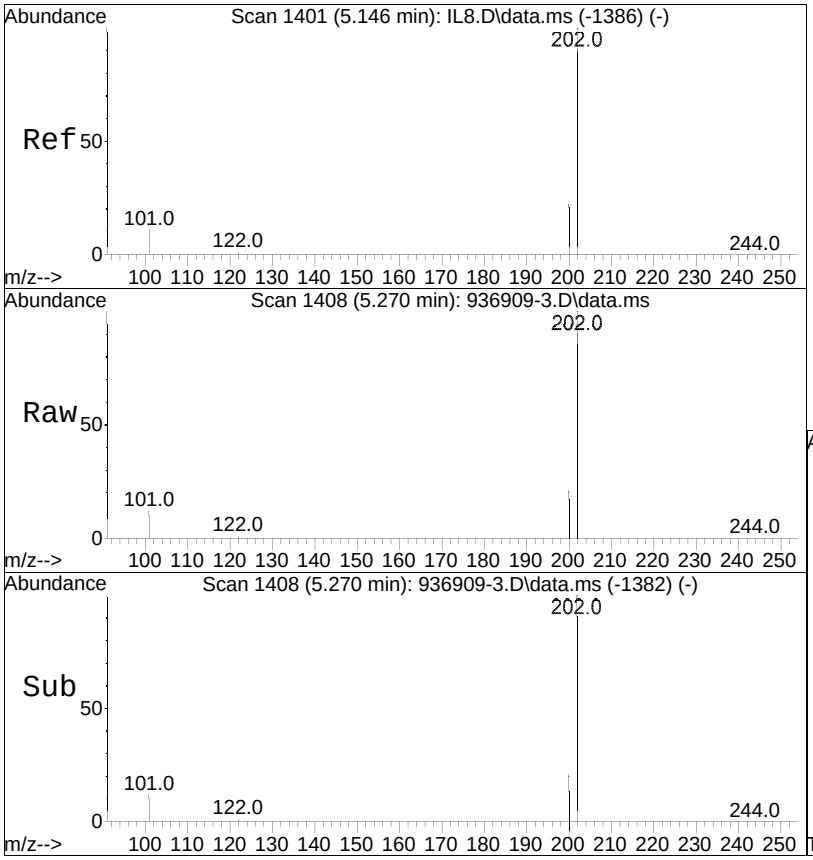


#28
Anthracene
Concen: 1442.14 ng/ml
RT: 4.625 min Scan# 1194
Delta R.T. 0.003 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:178 Resp: 707551

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.4	18.6

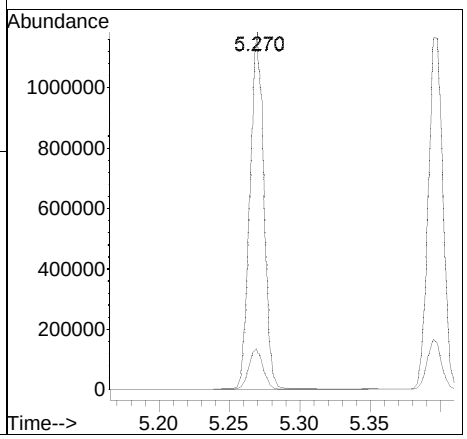


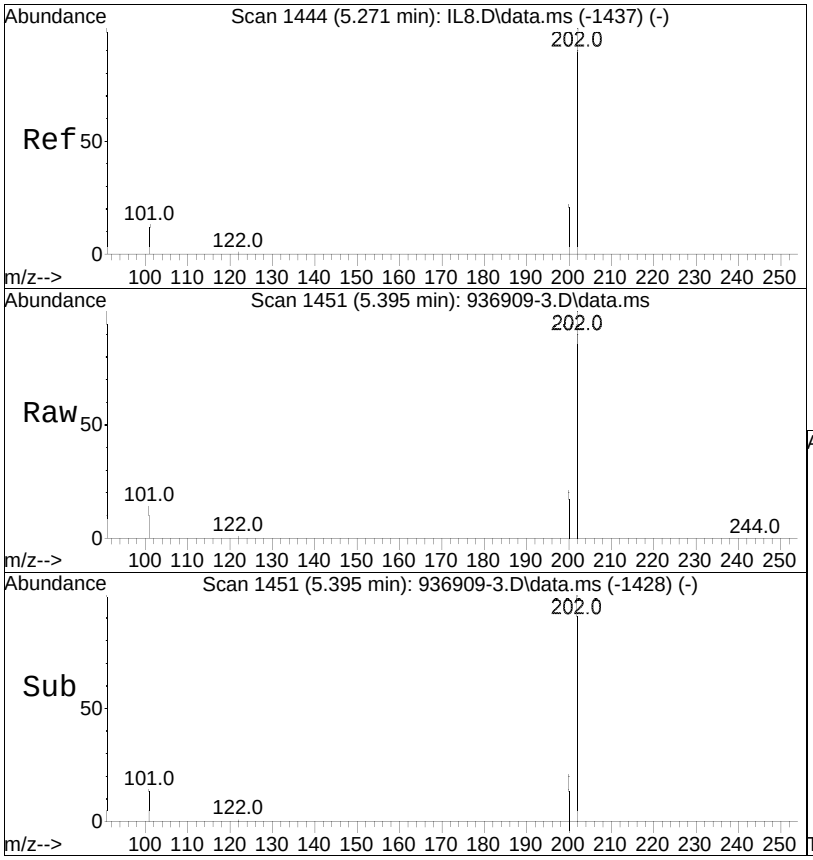


#29
Fluoranthene
Concen: 1391.43 ng/ml
RT: 5.270 min Scan# 1408
Delta R.T. -0.006 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:202 Resp: 819489

Ion	Ratio	Lower	Upper
202	100		
101	11.7	8.7	13.1

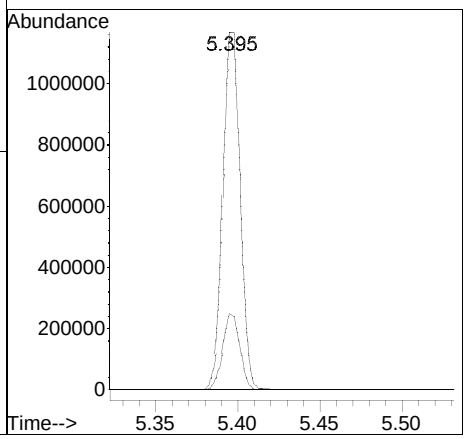


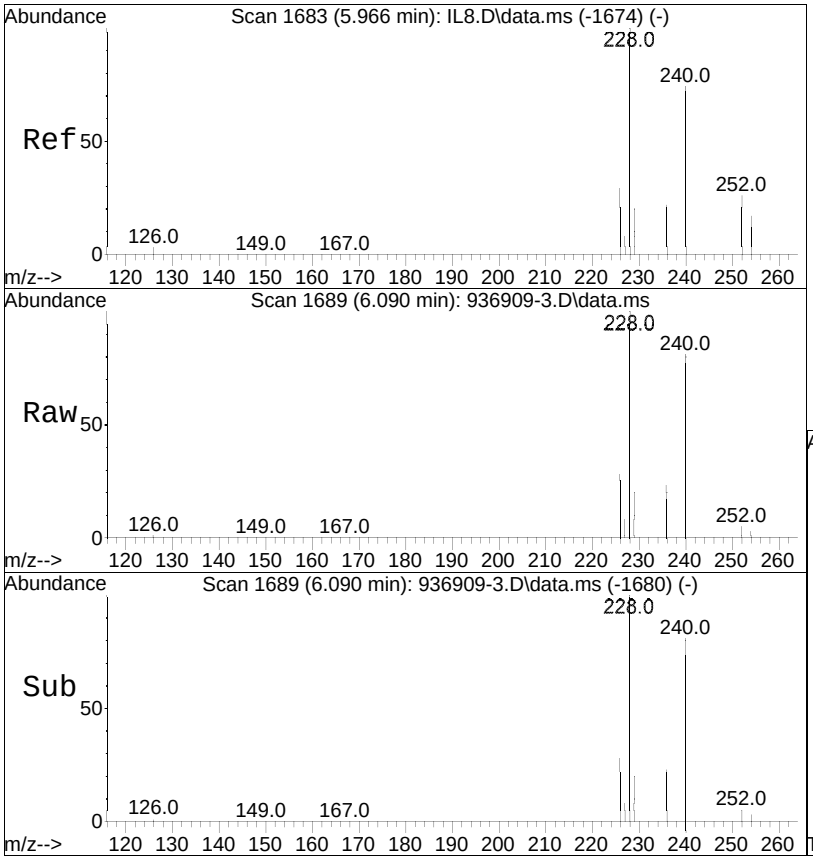


#30
Pyrene
Concen: 1377.59 ng/ml
RT: 5.395 min Scan# 1451
Delta R.T. -0.014 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:202 Resp: 848324

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

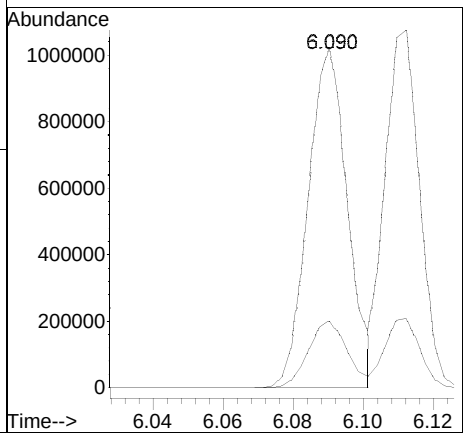


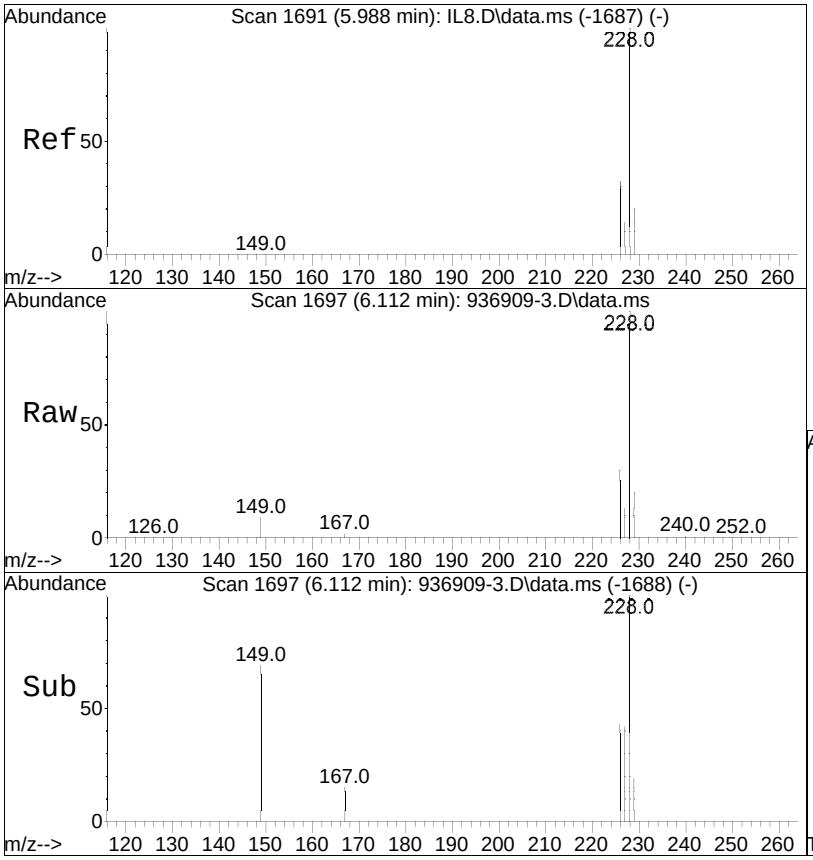


#33
Benzo[a]anthracene
Concen: 1404.99 ng/ml
RT: 6.090 min Scan# 1689
Delta R.T. -0.057 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:228 Resp: 794662

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.8	23.6

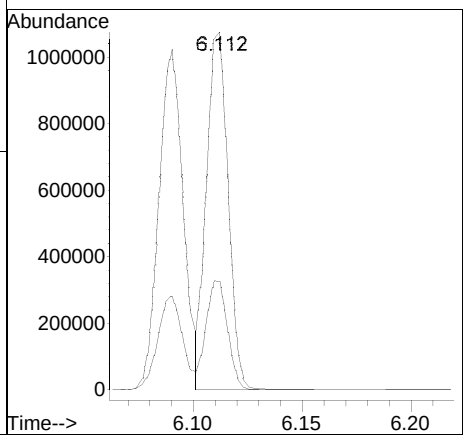


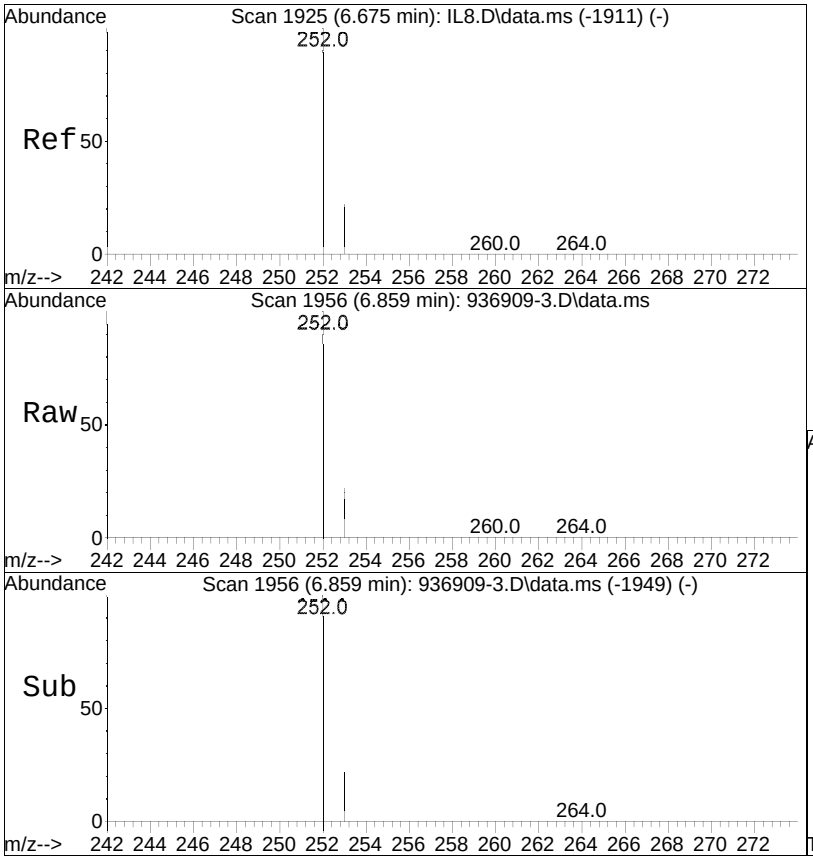


#35
Chrysene
Concen: 1458.75 ng/ml
RT: 6.112 min Scan# 1697
Delta R.T. -0.057 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:228 Resp: 736872

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

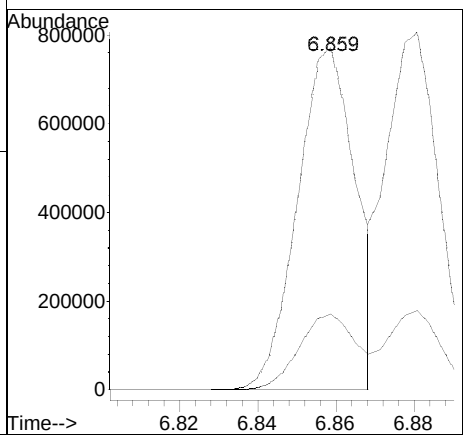


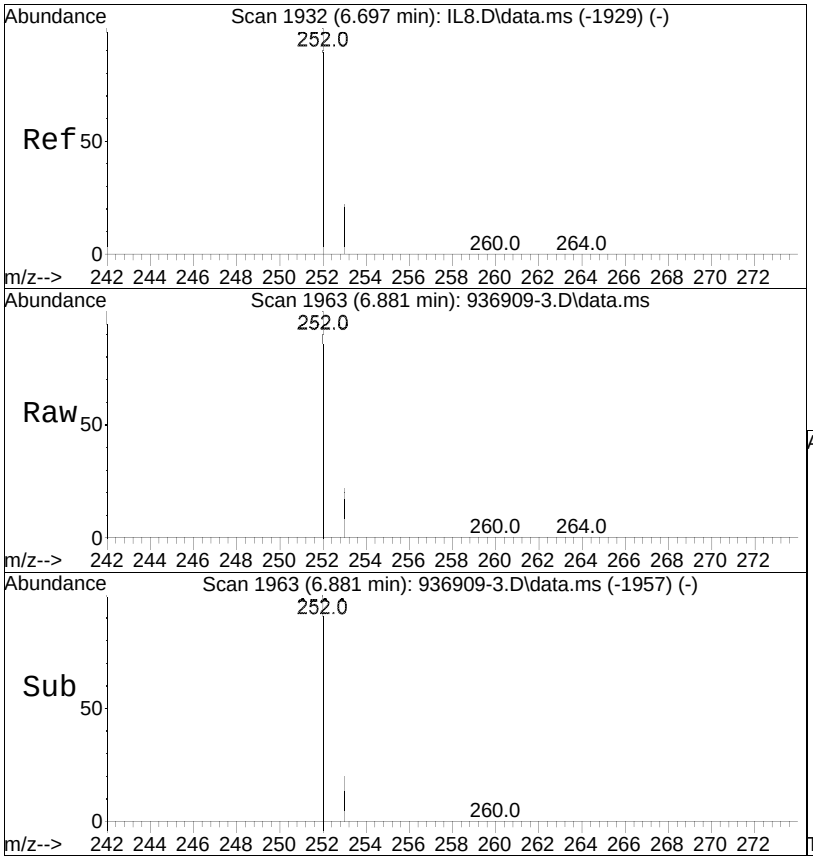


#38
Benzo[b]fluoranthene
Concen: 1434.58 ng/ml
RT: 6.859 min Scan# 1956
Delta R.T. -0.059 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:252 Resp: 799446

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

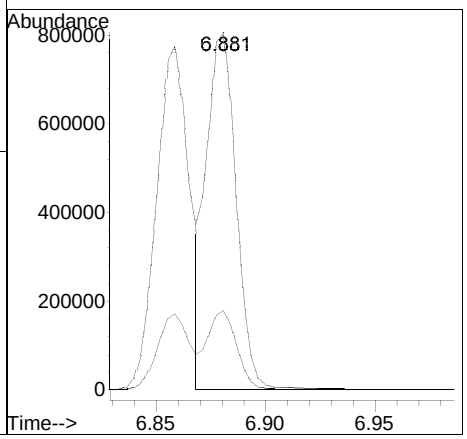


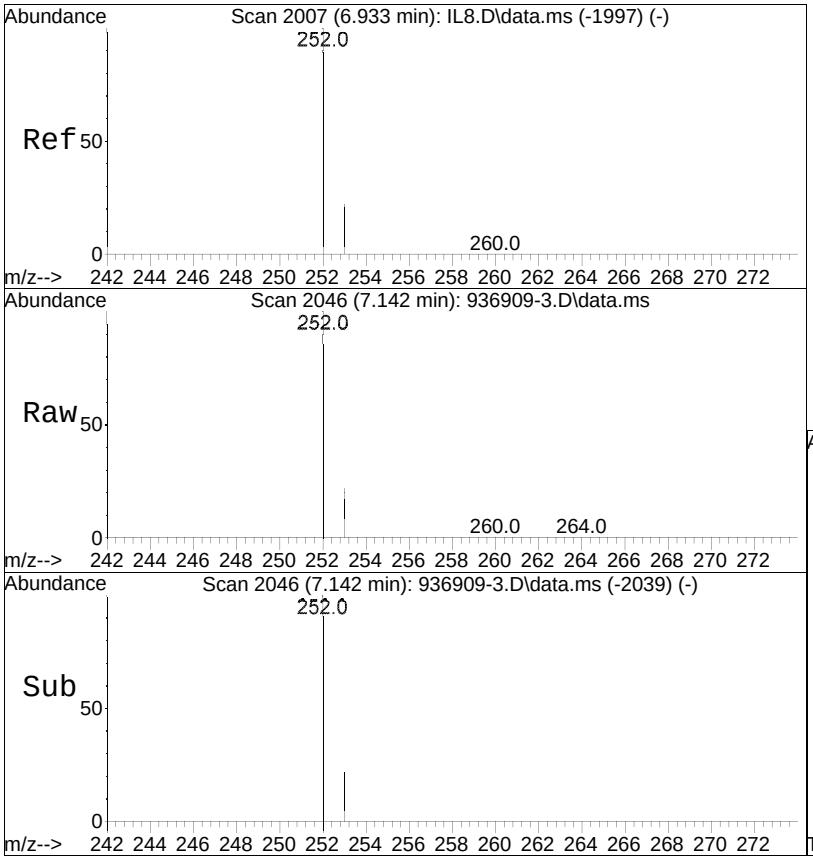


#39
Benzo[k]fluoranthene
Concen: 1455.88 ng/ml
RT: 6.881 min Scan# 1963
Delta R.T. -0.062 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:252 Resp: 756717

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5

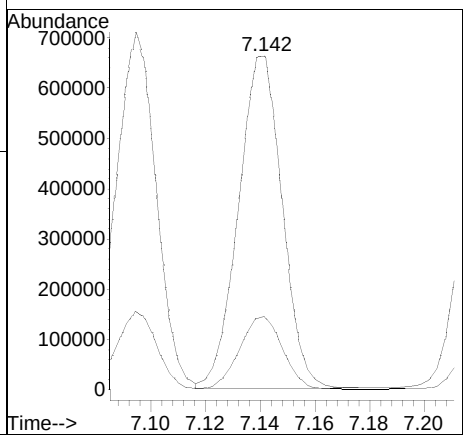


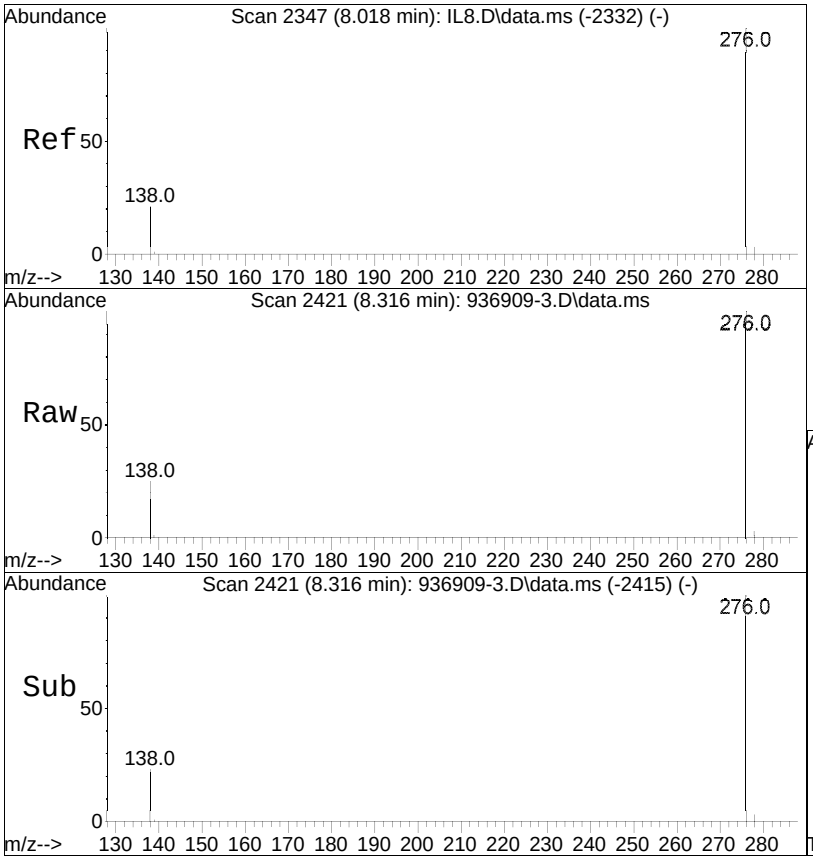


#40
Benzo[a]pyrene
Concen: 1586.33 ng/ml
RT: 7.142 min Scan# 2046
Delta R.T. -0.059 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:252 Resp: 733047

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2

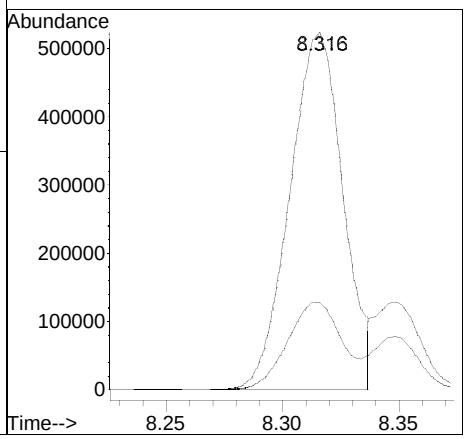


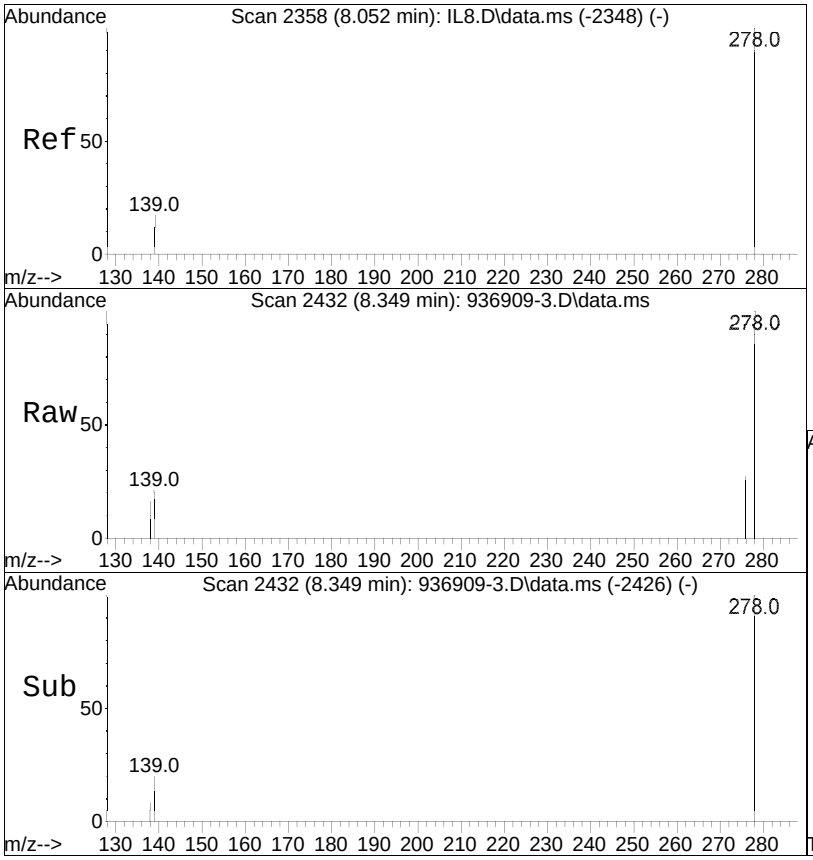


#41
Indeno[1,2,3-cd]pyrene
Concen: 1799.76 ng/ml
RT: 8.316 min Scan# 2421
Delta R.T. -0.062 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:276 Resp: 828454

Ion	Ratio	Lower	Upper
276	100		
138	25.2	16.2	24.4#

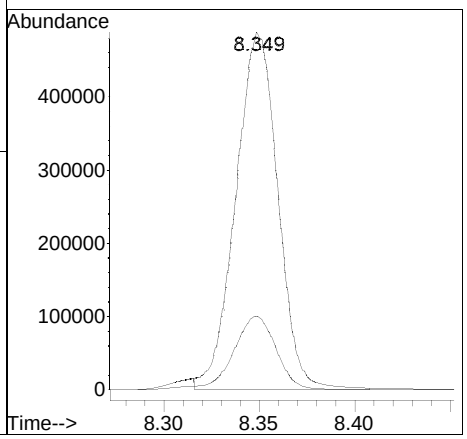


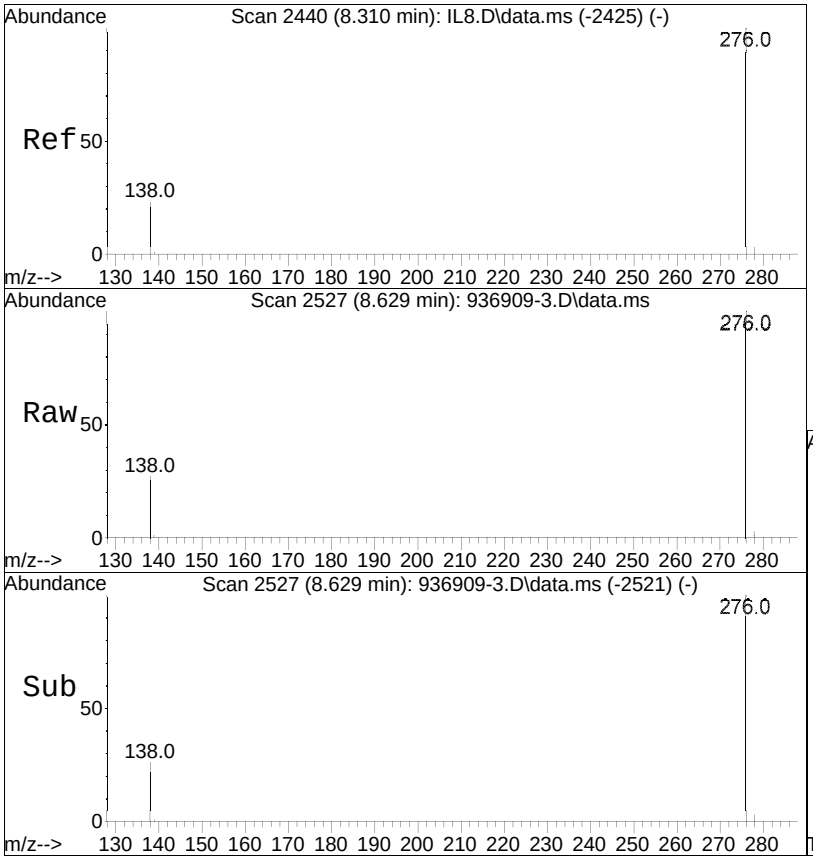


#42
Dibenzo[a,h]anthracene
Concen: 1745.06 ng/ml M6
RT: 8.349 min Scan# 2432
Delta R.T. -0.062 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:278 Resp: 744643

Ion	Ratio	Lower	Upper
278	100		
139	21.1	14.5	21.7

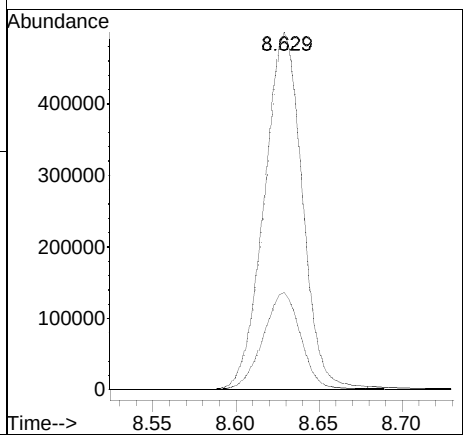




#43
Benzo[g,h,i]perylene
Concen: 1697.35 ng/ml
RT: 8.629 min Scan# 2527
Delta R.T. -0.062 min
Lab File: 936909-3.D
Acq: 20 Jun 2024 09:10 pm

Tgt Ion:276 Resp: 786336

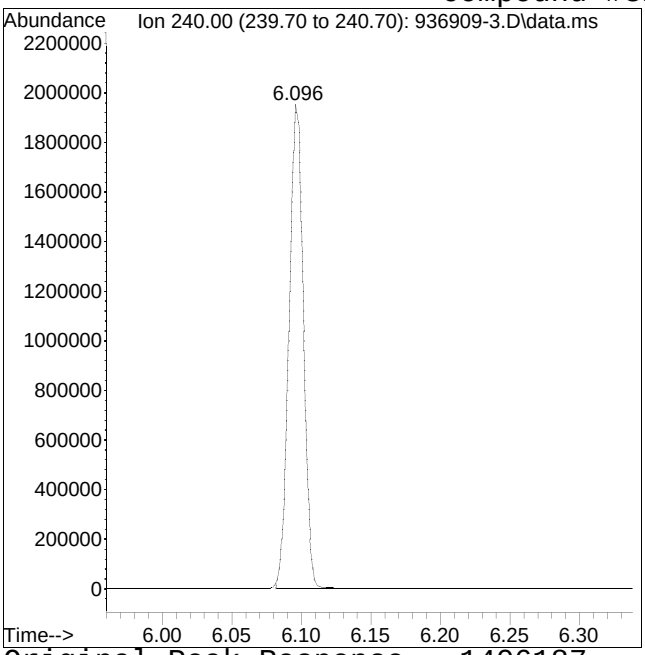
Ion	Ratio	Lower	Upper
276	100		
138	27.1	18.5	27.7



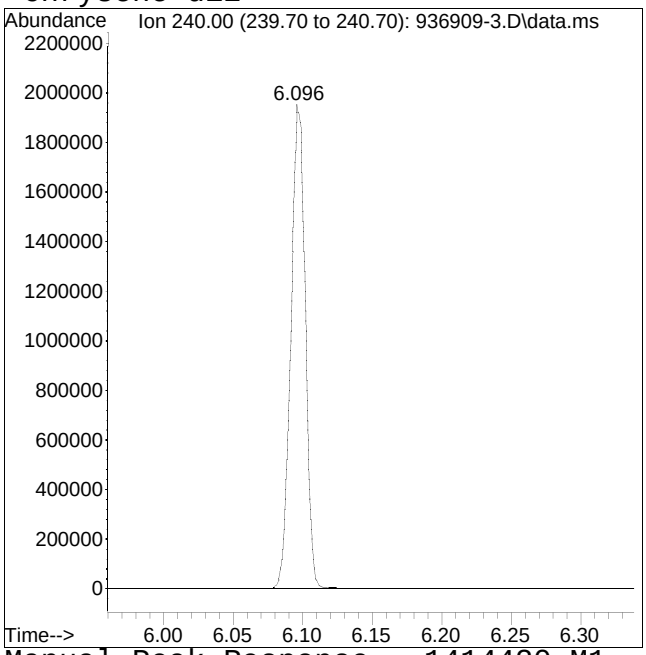
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-3.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 9:10 pm Instrument : SV125
Sample : WG1936909-3,32,,rp Quant Date : 6/20/2024 9:24 pm

Compound #32: Chrysene-d12



Original Peak Response = 1406187



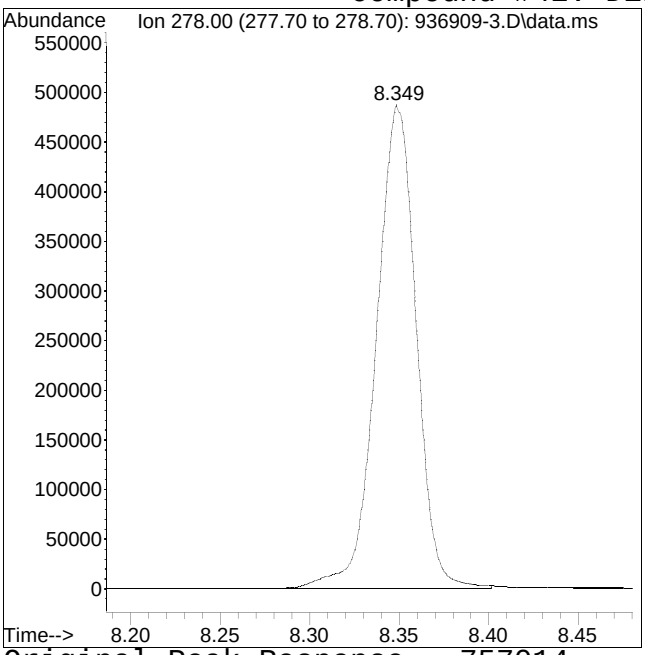
Manual Peak Response = 1414420 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

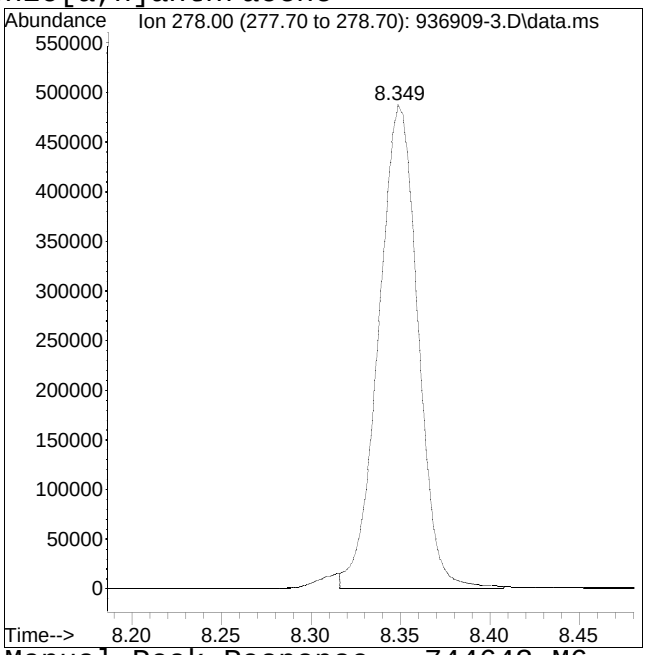
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-3.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 9:10 pm Instrument : SV125
Sample : WG1936909-3,32,,rp Quant Date : 6/20/2024 9:24 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 757014



Manual Peak Response = 744643 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-3.D
Acq On : 21 Jun 2024 12:55 pm
Operator : SV125:rp
Sample : WG1937577-3,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 13:53:01 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.103	152	429809	4000.000	ng/ml	0.01
Standard Area 1 = 338769			Recovery = 126.87%			
9) Naphthalene-d8	2.767	136	1731082	4000.000	ng/ml	0.00
Standard Area 1 = 1307715			Recovery = 132.37%			
18) Acenaphthene-d10	3.748	164	1022497	4000.000	ng/ml	0.00
Standard Area 1 = 748769			Recovery = 136.56%			
23) Phenanthrene-d10	4.582	188	2116240	4000.000	ng/ml	0.00
Standard Area 1 = 1544907			Recovery = 136.98%			
32) Chrysene-d12	6.098	240	1564089M2	4000.000	ng/ml	-0.08
Standard Area 1 = 1266561			Recovery = 123.49%			
37) Perylene-d12	7.200	264	1566781M6	4000.000	ng/ml	-0.09
Standard Area 1 = 1416293			Recovery = 110.63%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.520	112	95109	748.187	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 14.96%#			
4) Phenol-d6	1.923	99	98306	667.973	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 13.36%#			
8) Nitrobenzene-d5	2.384	82	109002	914.311	ng/ml	0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 36.57%			
14) 2-Fluorobiphenyl	3.369	172	281306	707.692	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 28.31%#			
22) 2,4,6-Tribromophenol	4.190	330	65765	1153.012	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 23.06%			
31) 4-Terphenyl-d14	5.490	244	312067	721.668	ng/ml	-0.03
Spiked Amount 2500.000	Range 30 - 130		Recovery = 28.87%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.969	93	199720	1522.836	ng/ml	94
6) n-nitrosodi-n-propylamine	2.307	70	157809	1864.111	ng/ml	97
7) Hexachloroethane	2.361	117	71462	1225.887	ng/ml	98
10) Naphthalene	2.779	128	622799	1288.671	ng/ml#	99
11) Hexachlorobutadiene	2.853	225	96441	1047.197	ng/ml	100
12) 2-Methylnaphthalene	3.161	142	450094	1453.873	ng/ml	98
13) 1-Methylnaphthalene	3.216	142	417004	1422.845	ng/ml	99
15) 2-Chloronaphthalene	3.433	162	458661	1332.003	ng/ml	90
16) 2,6-Dinitrotoluene	3.632	165	132511	1621.391	ng/ml	93
17) Acenaphthylene	3.665	152	764253	1491.887	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-3.D
Acq On : 21 Jun 2024 12:55 pm
Operator : SV125:rp
Sample : WG1937577-3,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 13:53:01 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240621RVT\ccv0621.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.763	153	514144	1470.724	ng/ml	99
20) 2,4-Dinitrotoluene	3.857	165	181508	1615.705	ng/ml	93
21) Fluorene	4.053	166	596966	1492.151	ng/ml	99
24) 4,6-Dinitro-o-cresol	4.087	198	48865	940.850	ng/ml	94
25) Hexachlorobenzene	4.369	284	191671	1308.886	ng/ml	96
26) Pentachlorophenol	4.485	266	49223	653.016	ng/ml	100
27) Phenanthrene	4.597	178	896355	1464.750	ng/ml	100
28) Anthracene	4.623	178	941040	1591.888	ng/ml	100
29) Fluoranthene	5.269	202	1086691	1531.371	ng/ml	98
30) Pyrene	5.397	202	1115284	1503.139	ng/ml	98
33) Benzo[a]anthracene	6.092	228	976804M3	1562.702	ng/ml	
34) 3,3'-Dichlorobenzene	6.081	252	391533M4	1493.753	ng/ml	
35) Chrysene	6.111	228	877244M2	1570.456	ng/ml	
36) Bis(2-ethylhexyl)phtha...	6.122	149	750422M1	1804.028	ng/ml	
38) Benzo[b]fluoranthene	6.858	252	913426M3	1674.804	ng/ml	
39) Benzo[k]fluoranthene	6.880	252	801167M3	1574.971	ng/ml	
40) Benzo[a]pyrene	7.141	252	801653M3	1772.572	ng/ml	
41) Indeno[1,2,3-cd]pyrene	8.313	276	814834M2	1808.719	ng/ml	
42) Dibenzo[a,h]anthracene	8.348	278	718408M2	1720.244	ng/ml	
43) Benzo[g,h,i]perylene	8.629	276	744873M2	1642.861	ng/ml	

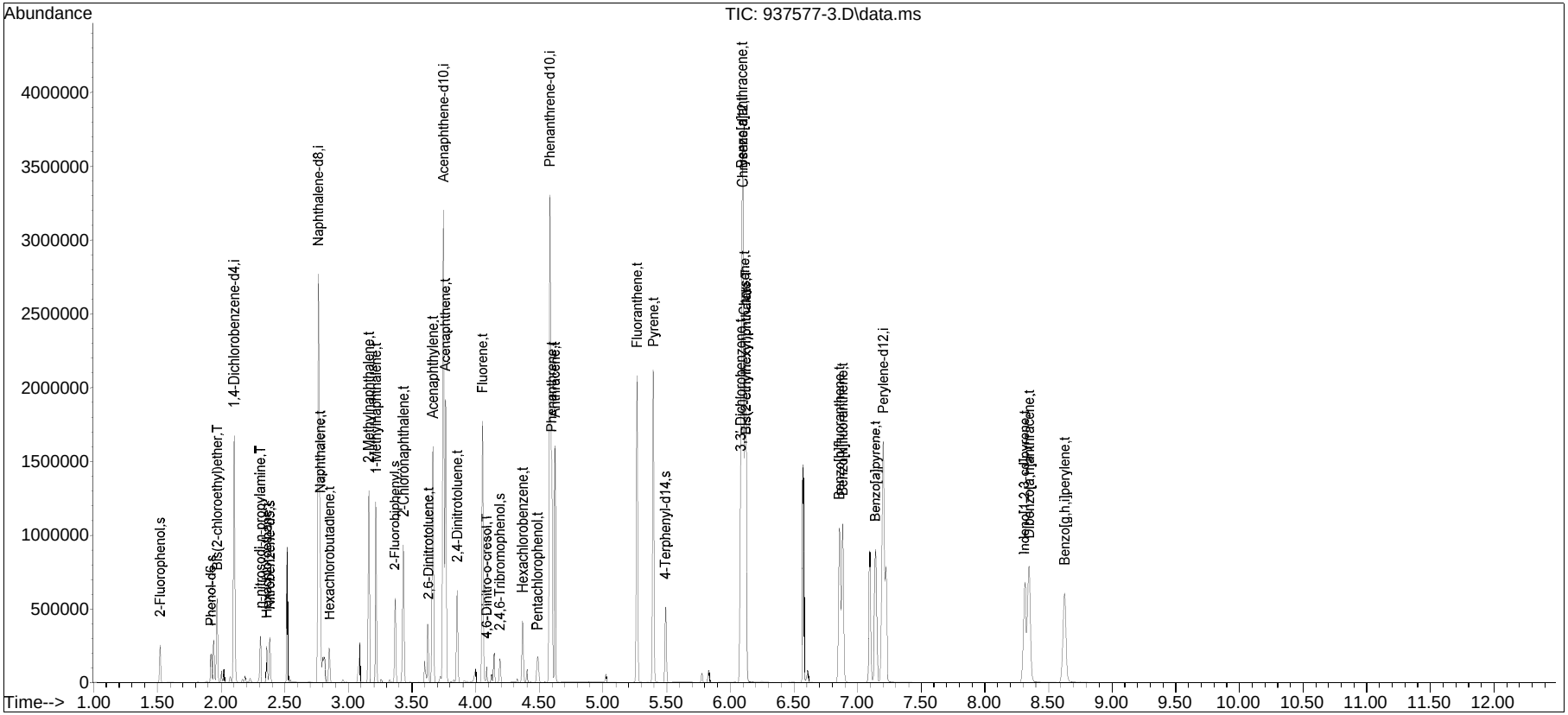
(#) = qualifier out of range (m) = manual integration (+) = signals summed

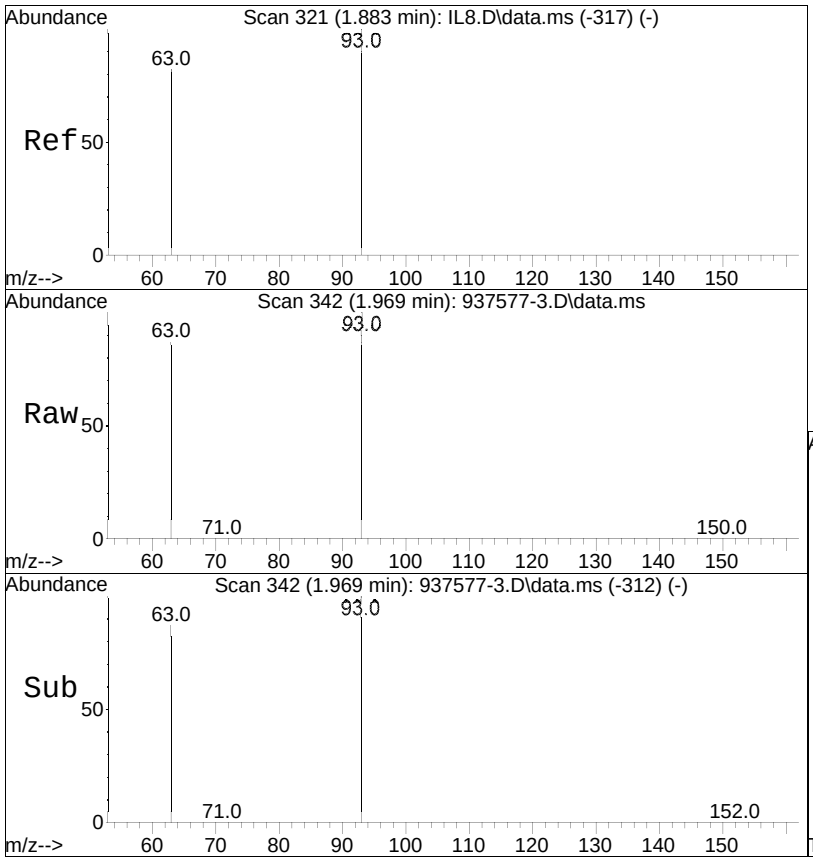
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240621RVT\
Data File : 937577-3.D
Acq On : 21 Jun 2024 12:55 pm
Operator : SV125:rp
Sample : WG1937577-3,32,,rp
Misc : WG1937573,WG1937577,ical20885
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 13:53:01 2024
Quant Method : I:\8270sim\sv125\240621RVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 10:04:31 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0621.D•

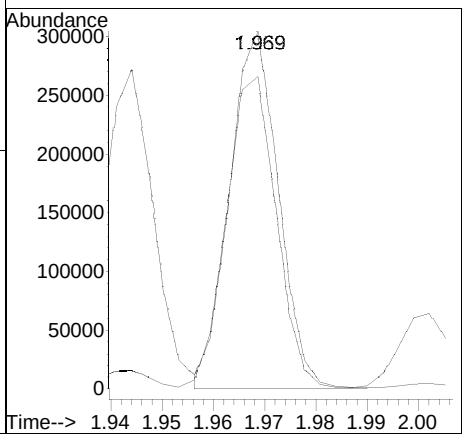


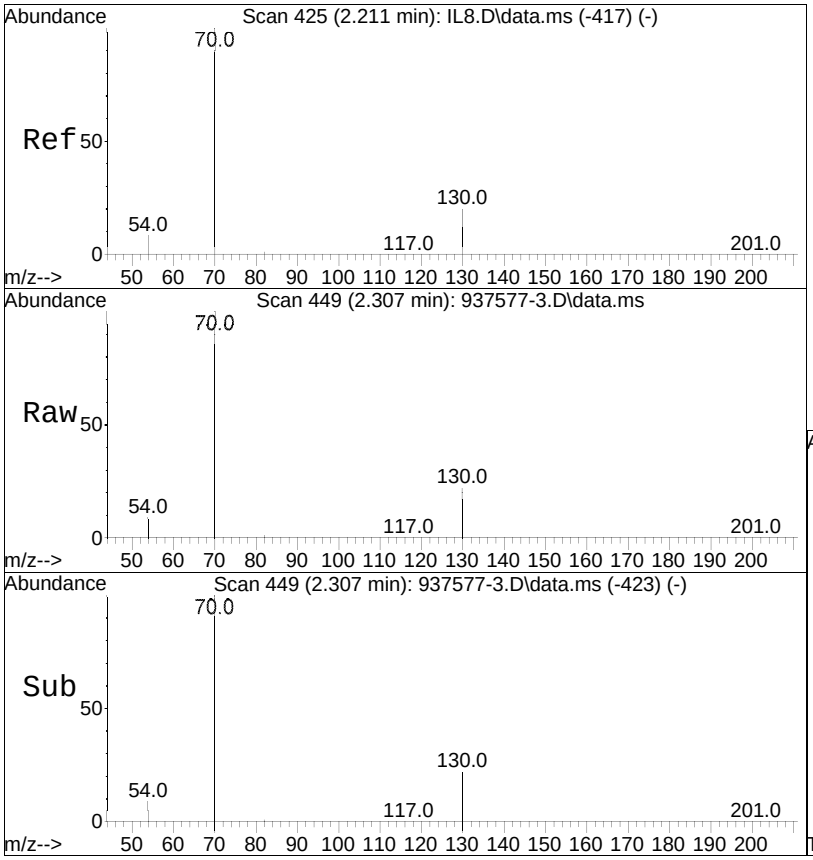


#5
Bis(2-chloroethyl)ether
Concen: 1522.84 ng/ml
RT: 1.969 min Scan# 342
Delta R.T. 0.011 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion: 93 Resp: 199720

Ion	Ratio	Lower	Upper
93	100		
63	89.6	67.7	101.5

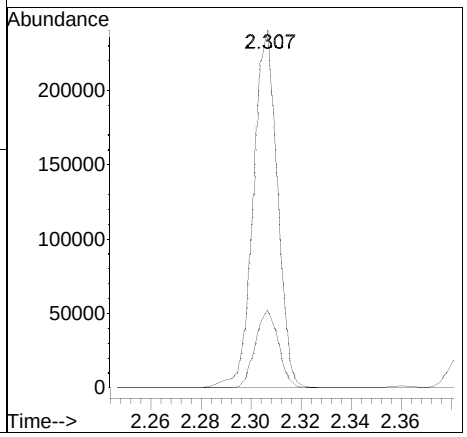


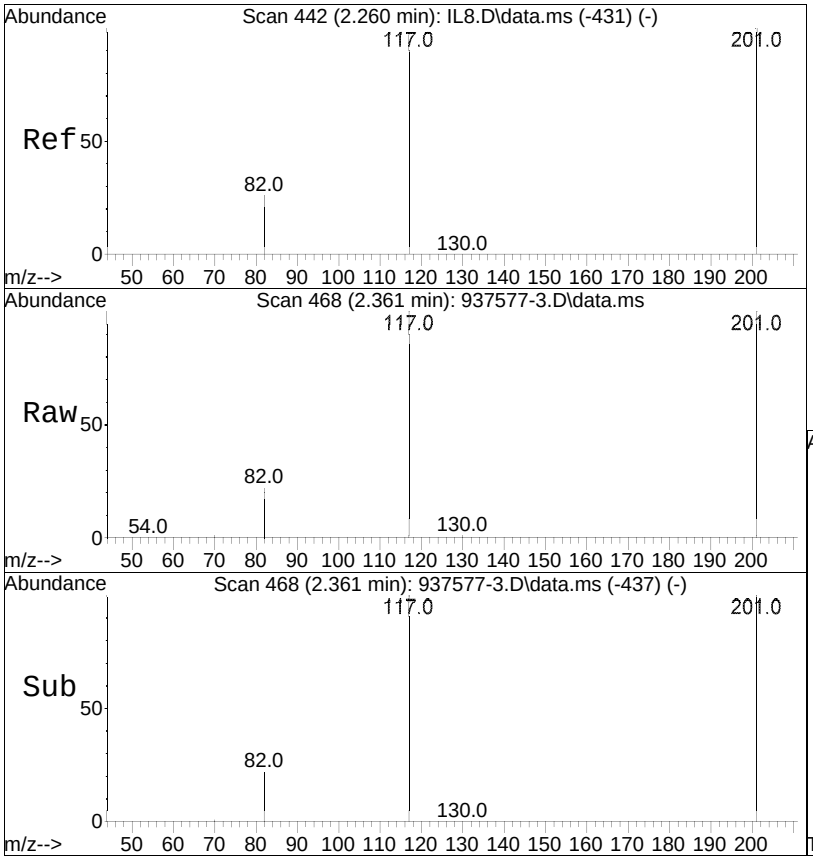


#6
n-nitrosodi-n-propylamine
Concen: 1864.11 ng/ml
RT: 2.307 min Scan# 449
Delta R.T. 0.010 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion: 70 Resp: 157809

Ion	Ratio	Lower	Upper
70	100		
130	21.0	15.7	23.5

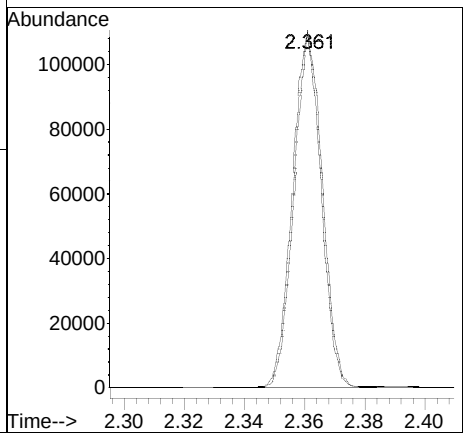


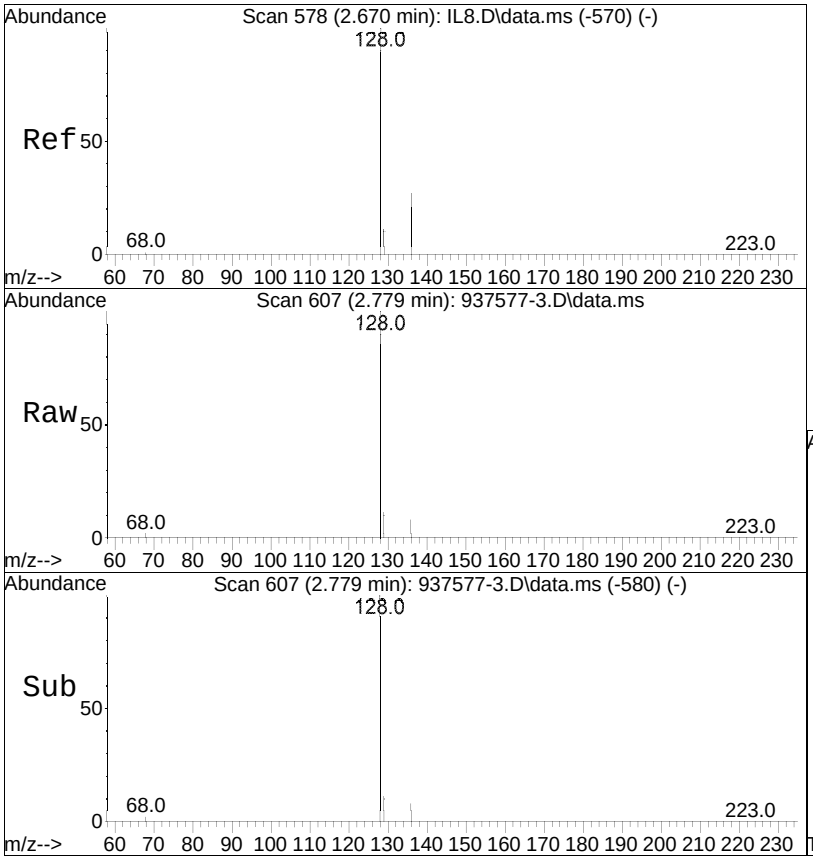


#7
Hexachloroethane
Concen: 1225.89 ng/ml
RT: 2.361 min Scan# 468
Delta R.T. 0.010 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:117 Resp: 71462

Ion	Ratio	Lower	Upper
117	100		
201	99.2	80.8	121.2

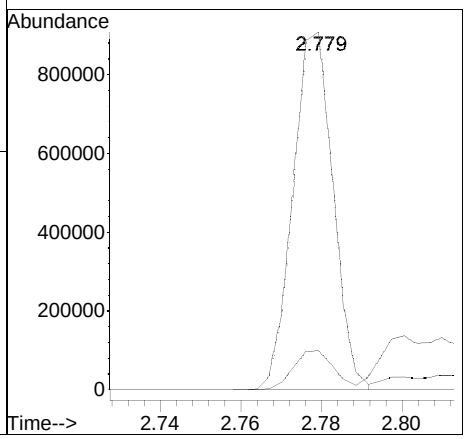


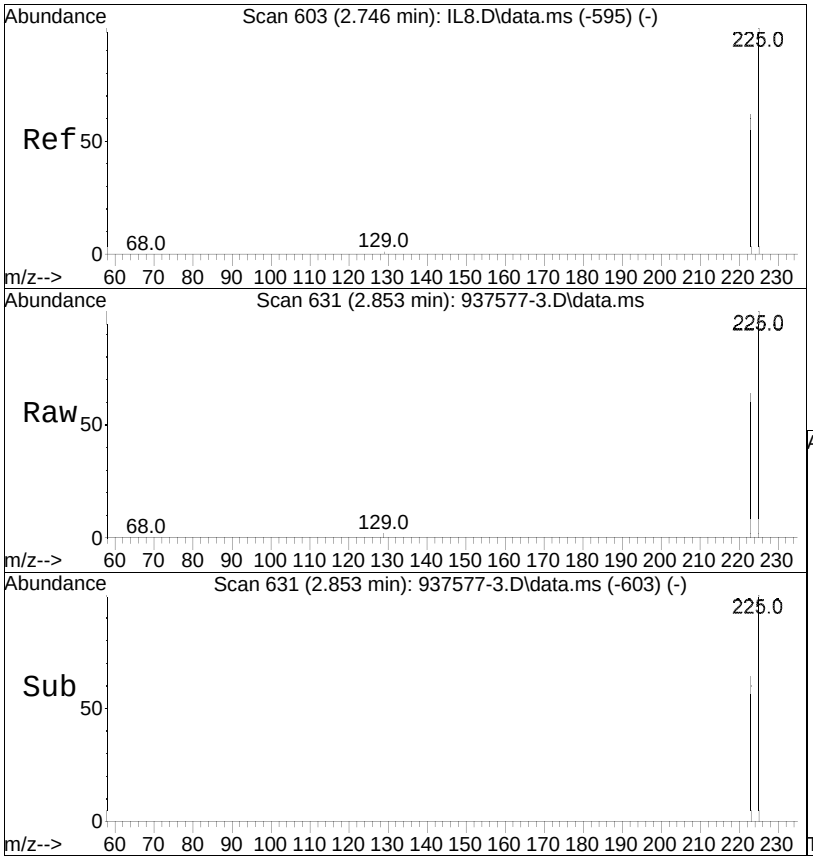


#10
Naphthalene
Concen: 1288.67 ng/ml
RT: 2.779 min Scan# 607
Delta R.T. 0.008 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:128 Resp: 622799

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	0.0	0.0	0.0

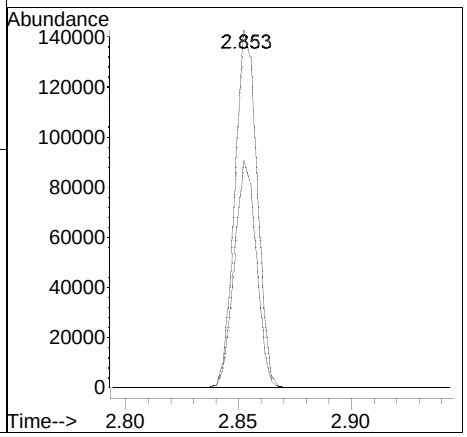


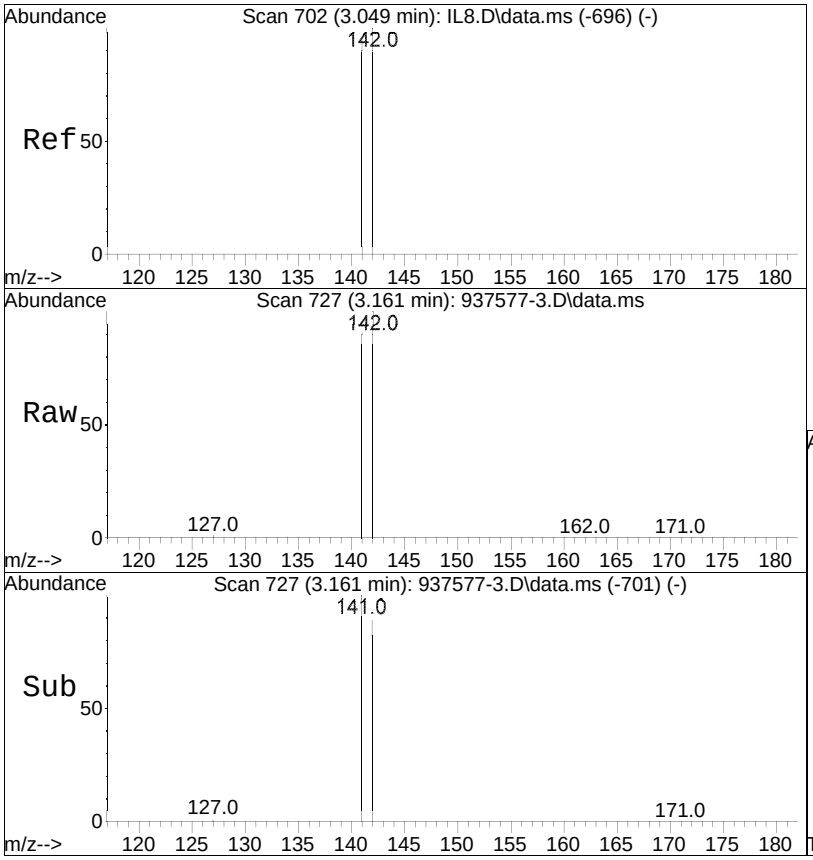


#11
Hexachlorobutadiene
Concen: 1047.20 ng/ml
RT: 2.853 min Scan# 631
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:225 Resp: 96441

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4

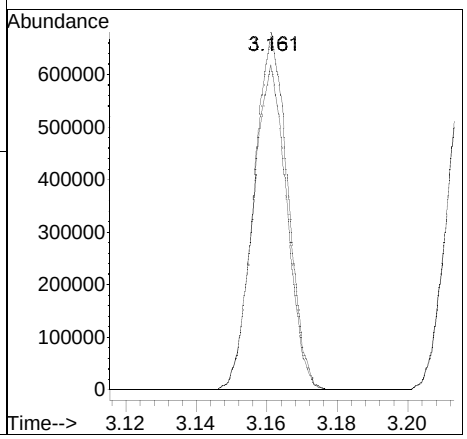


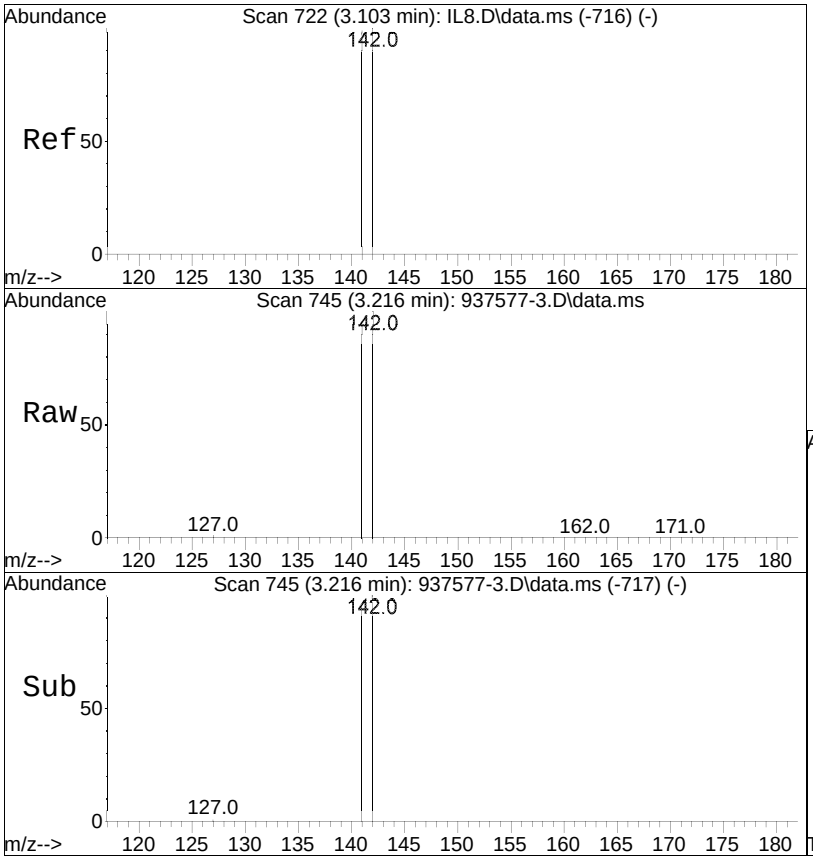


#12
2-Methylnaphthalene
Concen: 1453.87 ng/ml
RT: 3.161 min Scan# 727
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:142 Resp: 450094

Ion	Ratio	Lower	Upper
142	100		
141	91.3	74.4	111.6

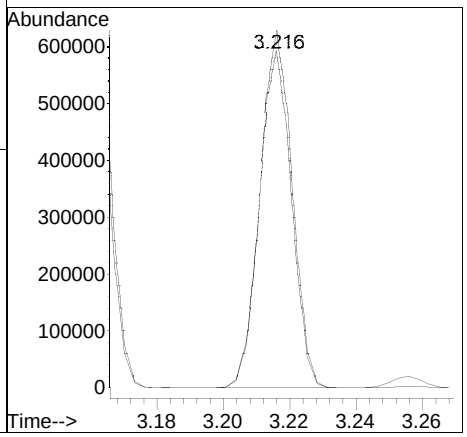


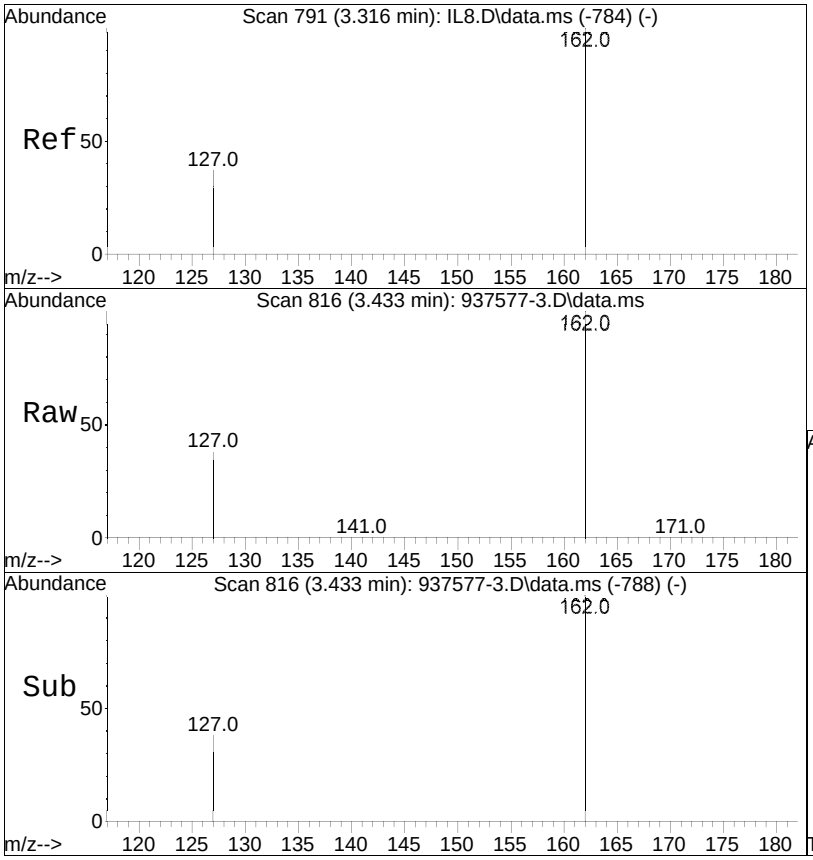


#13
1-Methylnaphthalene
Concen: 1422.85 ng/ml
RT: 3.216 min Scan# 745
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:142 Resp: 417004

Ion	Ratio	Lower	Upper
142	100		
141	94.9	77.0	115.4

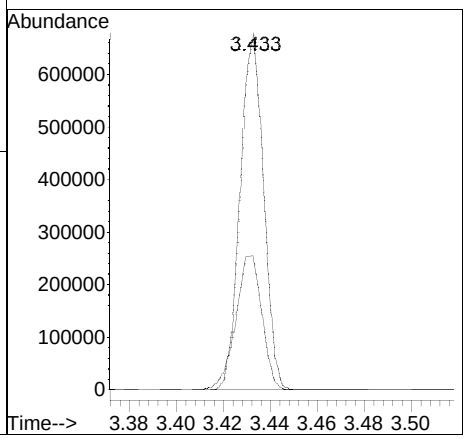


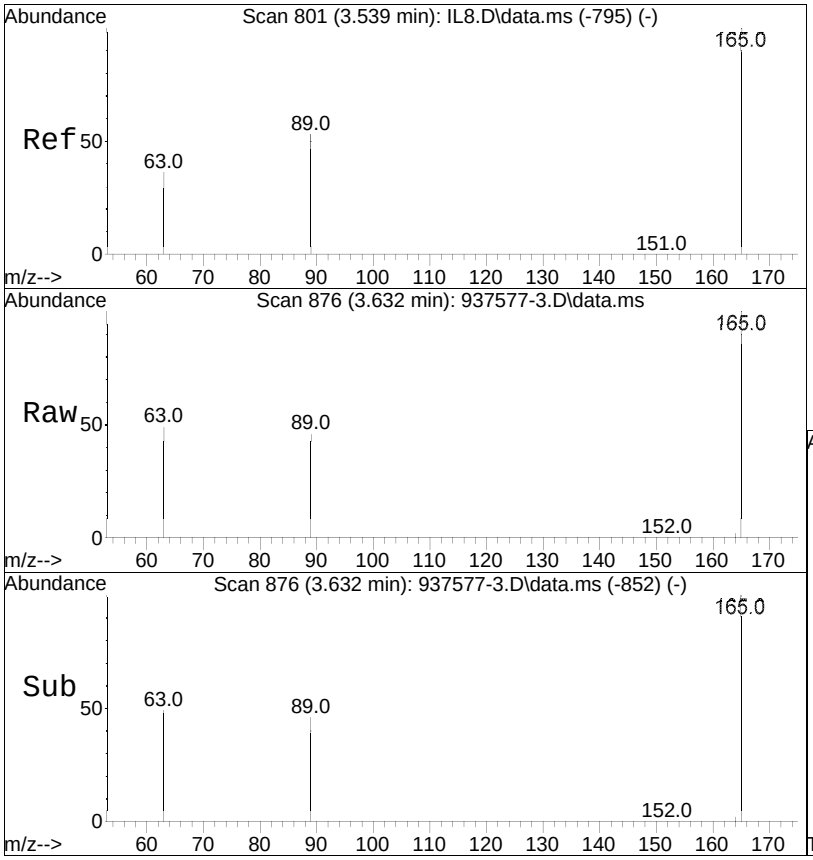


#15
2-Chloronaphthalene
Concen: 1332.00 ng/ml
RT: 3.433 min Scan# 816
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:162 Resp: 458661

Ion	Ratio	Lower	Upper
162	100		
127	42.6	29.2	43.8

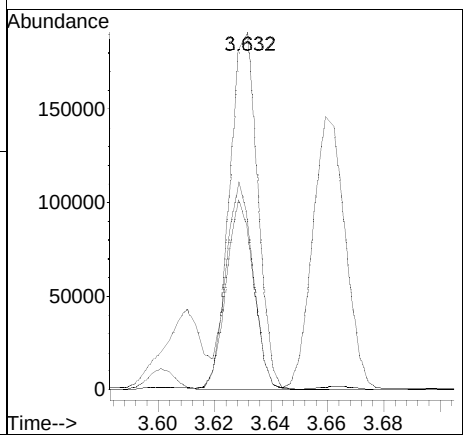


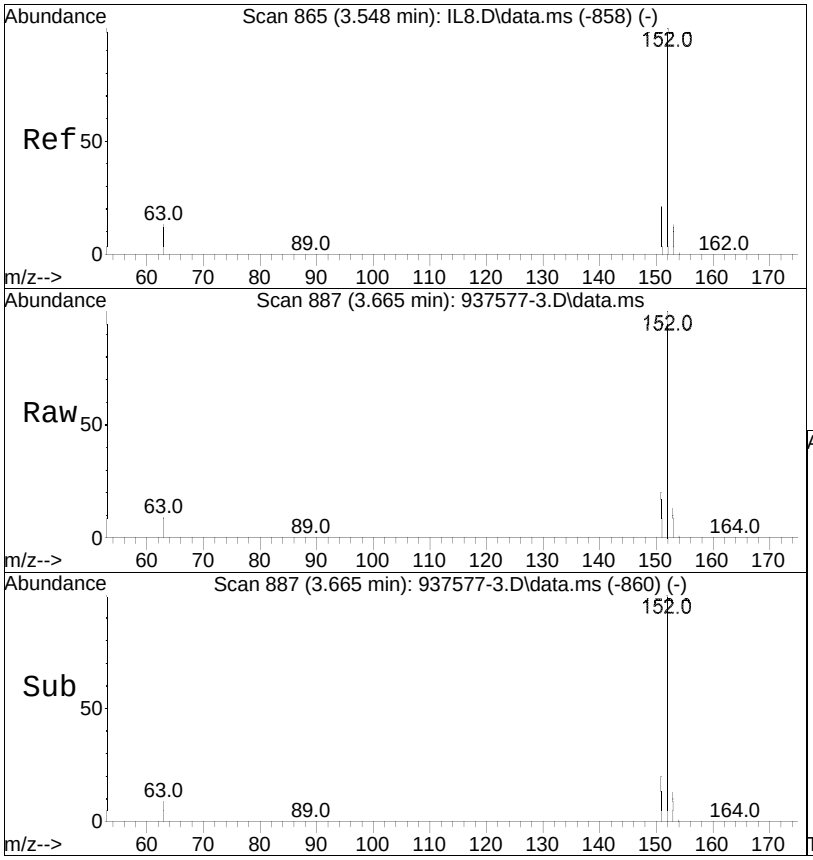


#16
2,6-Dinitrotoluene
Concen: 1621.39 ng/ml
RT: 3.632 min Scan# 876
Delta R.T. 0.008 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:165 Resp: 132511

Ion	Ratio	Lower	Upper
165	100		
89	51.8	46.2	69.2
63	54.7	47.5	71.3

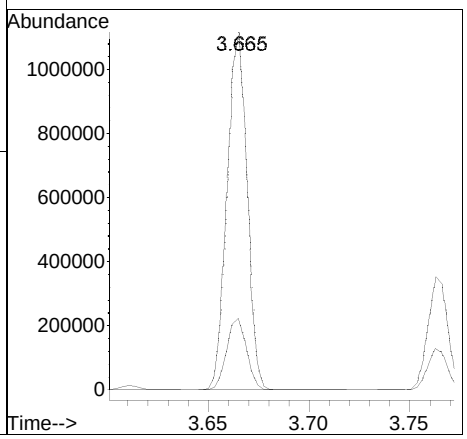


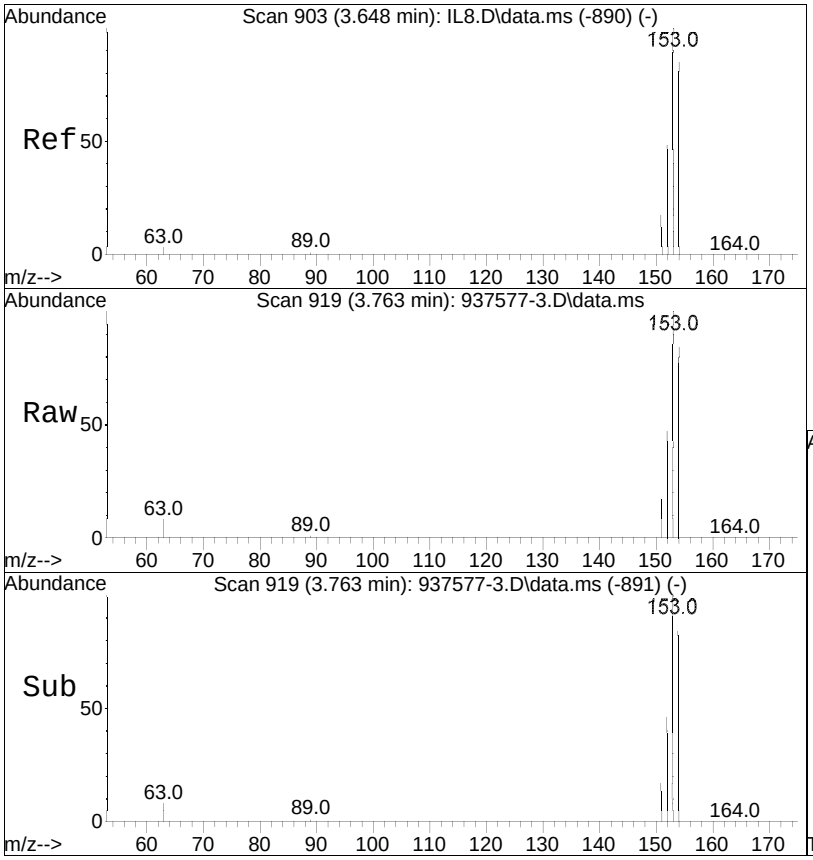


#17
Acenaphthylene
Concen: 1491.89 ng/ml
RT: 3.665 min Scan# 887
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:152 Resp: 764253

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6

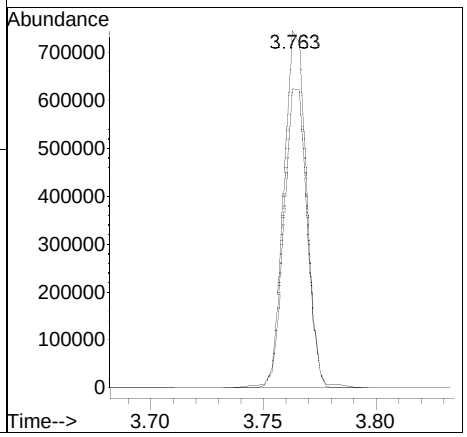


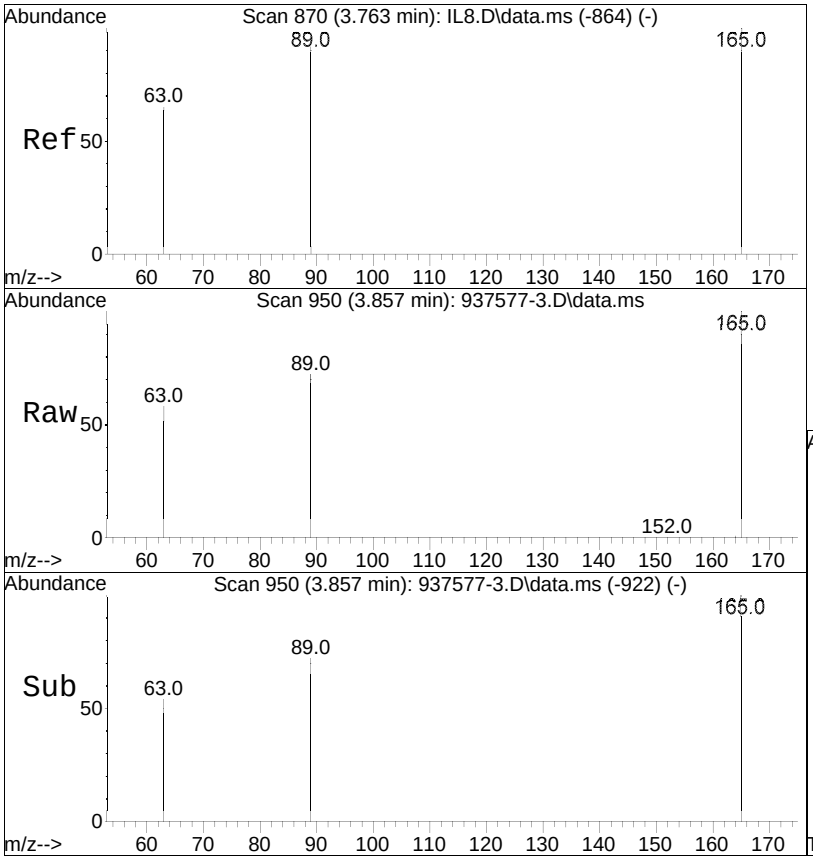


#19
Acenaphthene
Concen: 1470.72 ng/ml
RT: 3.763 min Scan# 919
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:153 Resp: 514144

Ion	Ratio	Lower	Upper
153	100		
154	86.5	68.4	102.6

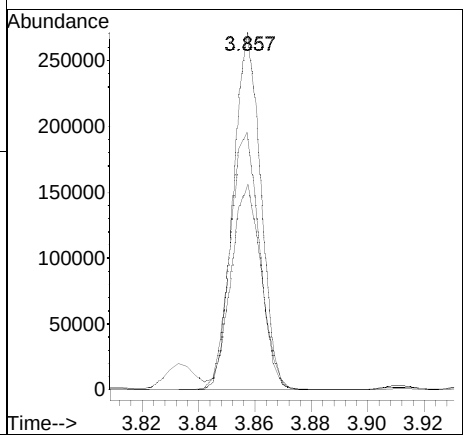


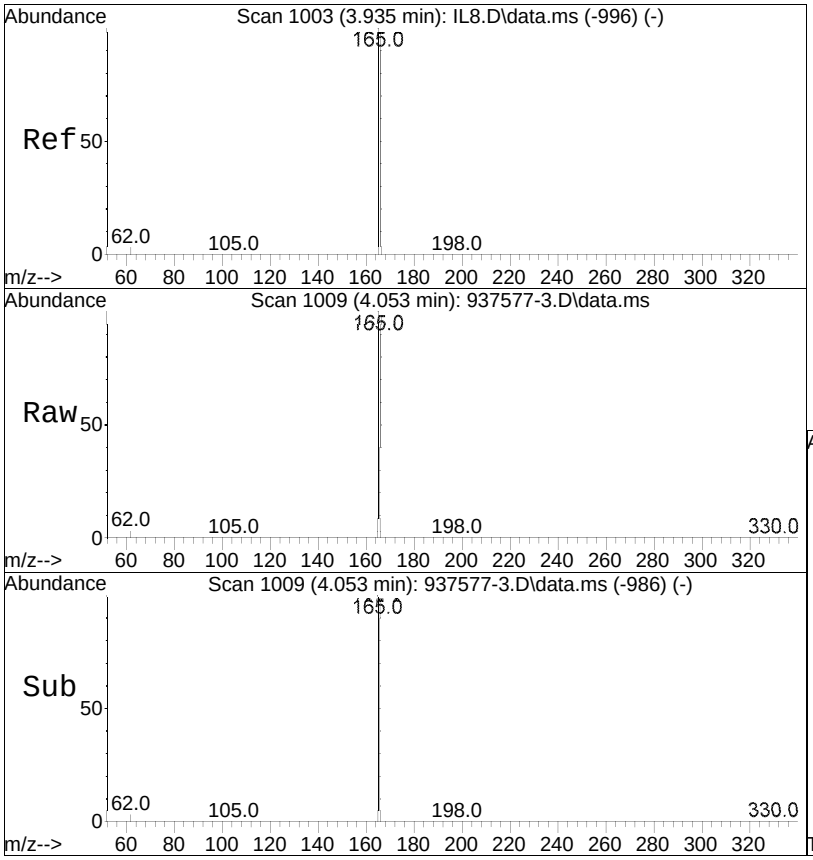


#20
2,4-Dinitrotoluene
Concen: 1615.70 ng/ml
RT: 3.857 min Scan# 950
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:165 Resp: 181508

Ion	Ratio	Lower	Upper
165	100		
89	77.0	66.8	100.2
63	63.3	54.9	82.3

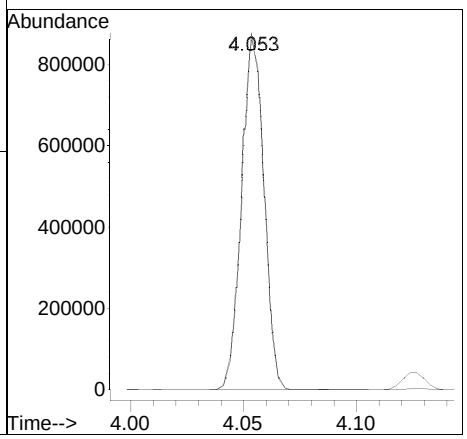


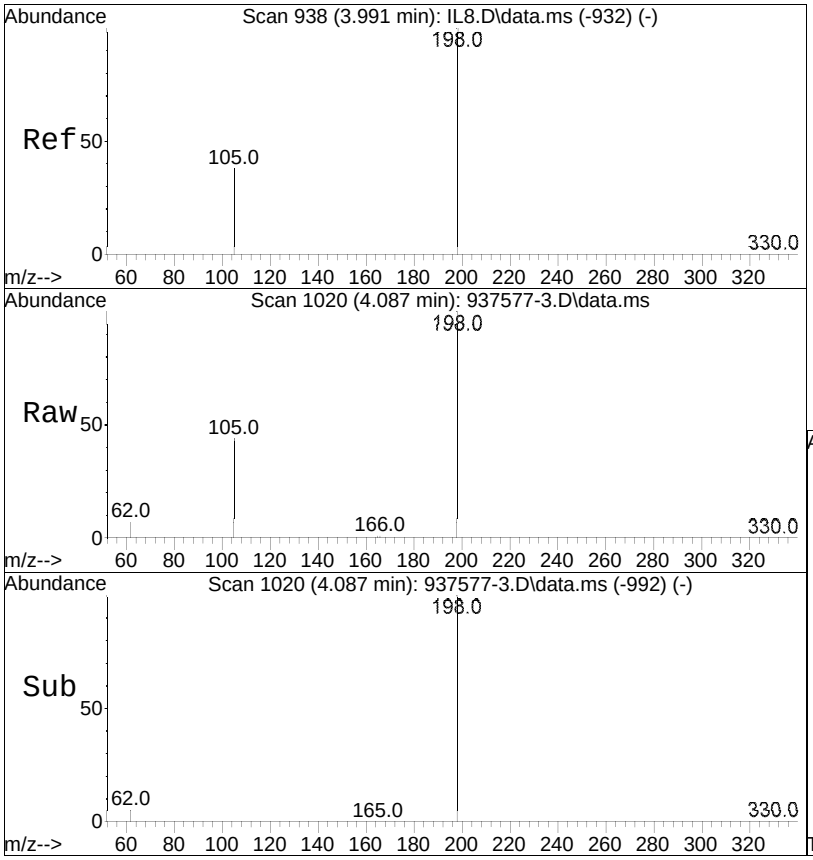


#21
Fluorene
Concen: 1492.15 ng/ml
RT: 4.053 min Scan# 1009
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:166 Resp: 596966

Ion	Ratio	Lower	Upper
166	100		
165	100.7	81.7	122.5

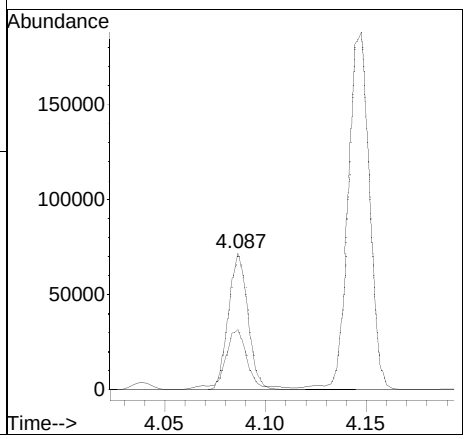


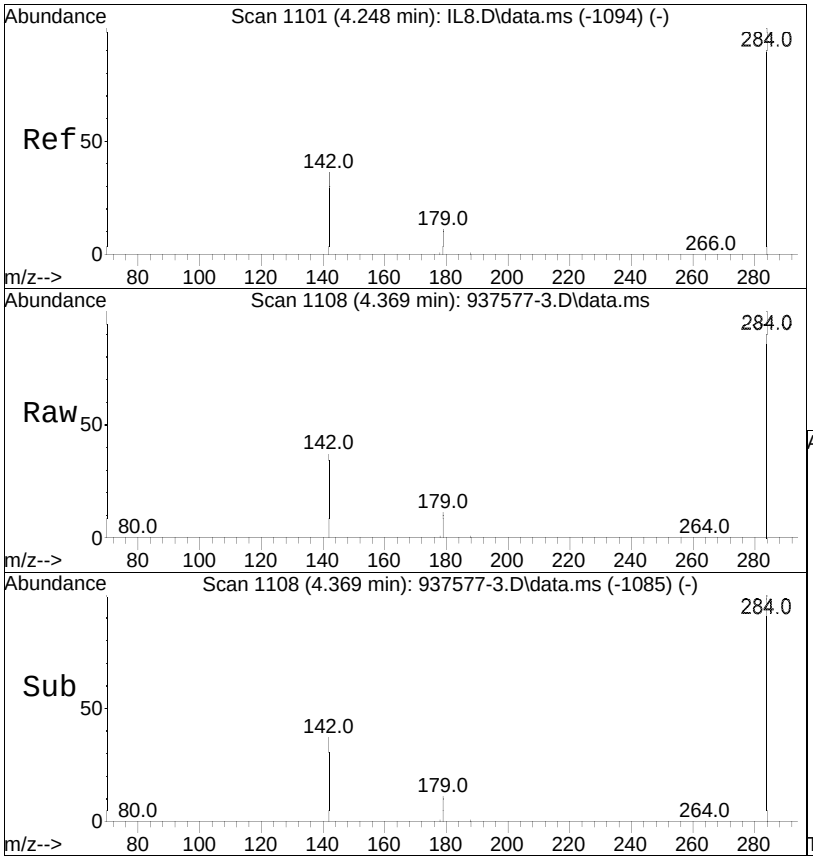


#24
4,6-Dinitro-o-cresol
Concen: 940.85 ng/ml
RT: 4.087 min Scan# 1020
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:198 Resp: 48865

Ion	Ratio	Lower	Upper
198	100		
105	48.3	35.8	53.6

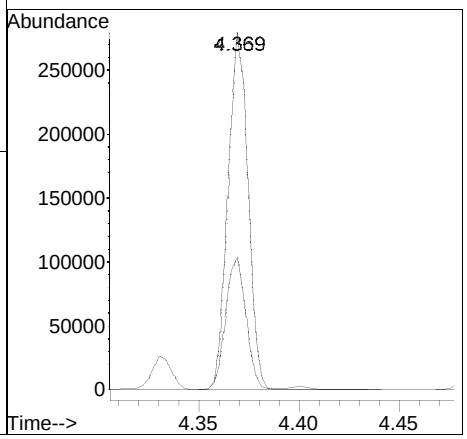


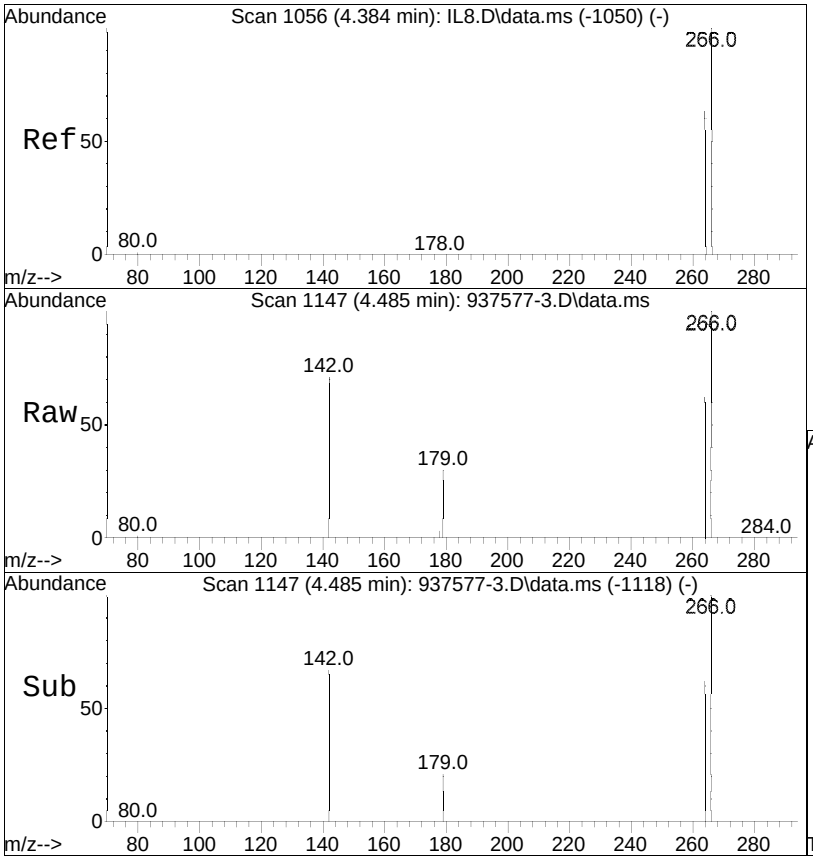


#25
Hexachlorobenzene
Concen: 1308.89 ng/ml
RT: 4.369 min Scan# 1108
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:284 Resp: 191671

Ion	Ratio	Lower	Upper
284	100		
142	37.7	28.2	42.2

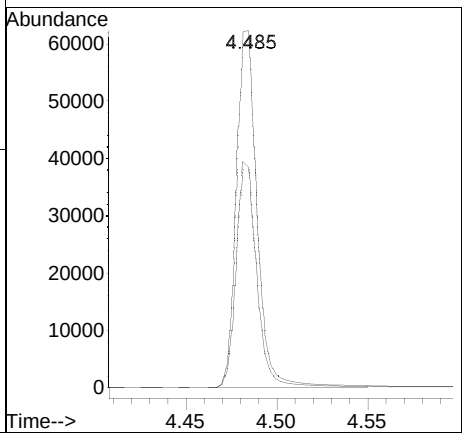


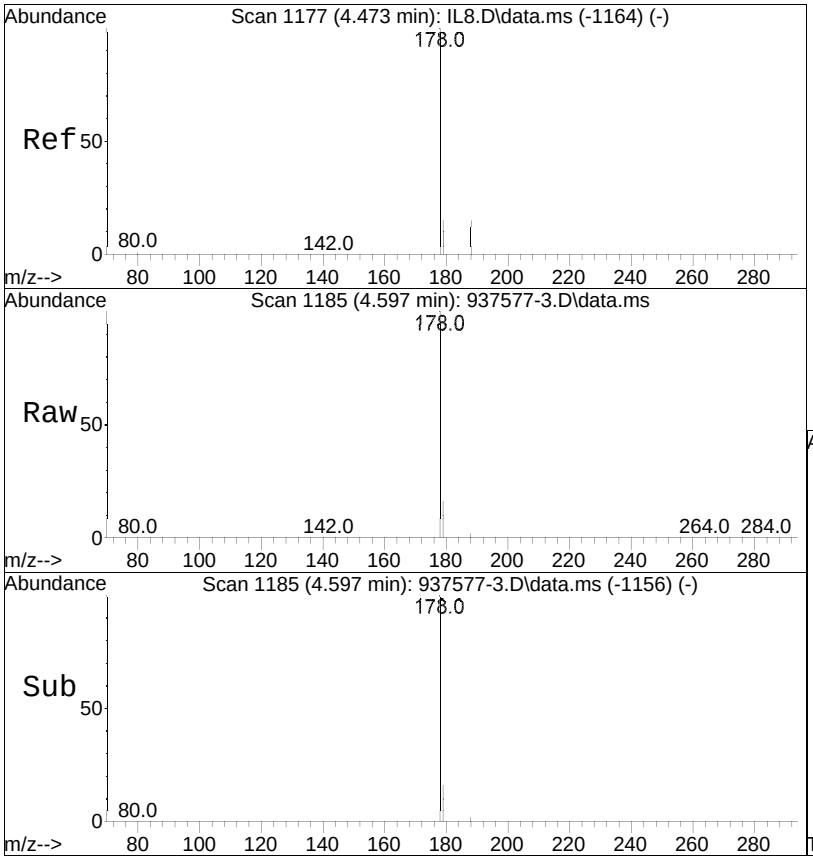


#26
Pentachlorophenol
Concen: 653.02 ng/ml
RT: 4.485 min Scan# 1147
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:266 Resp: 49223

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.6	76.0

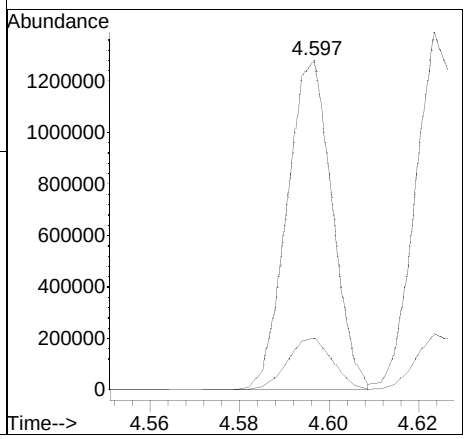


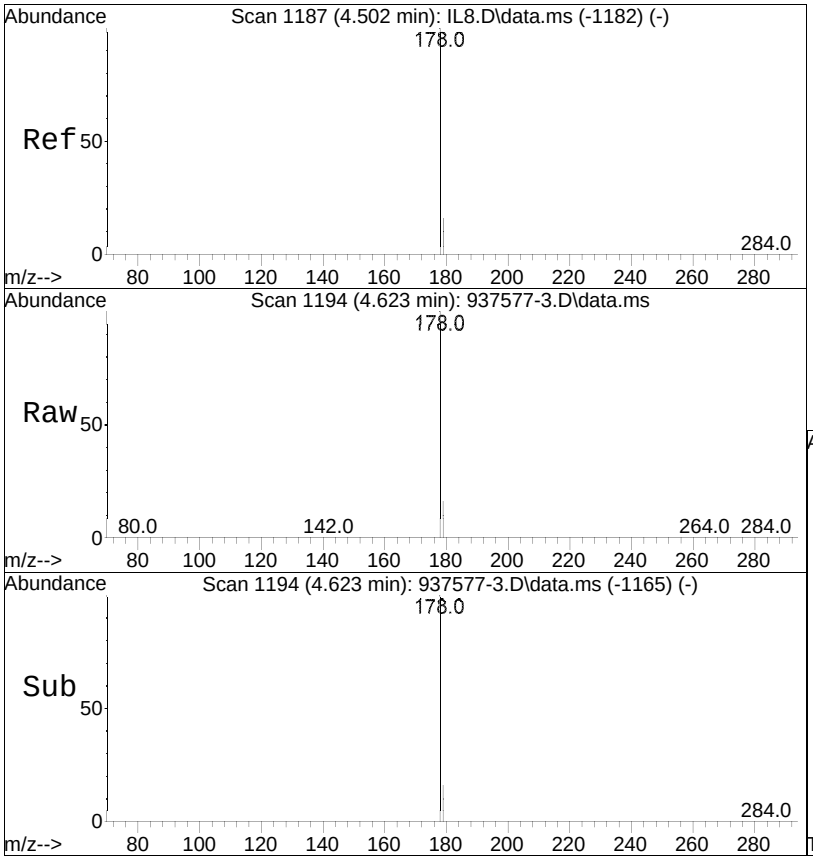


#27
Phenanthrene
Concen: 1464.75 ng/ml
RT: 4.597 min Scan# 1185
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:178 Resp: 896355

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

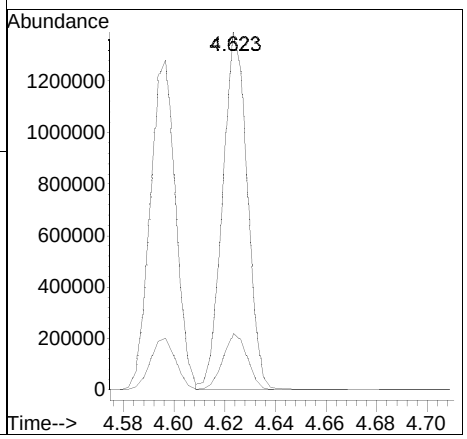


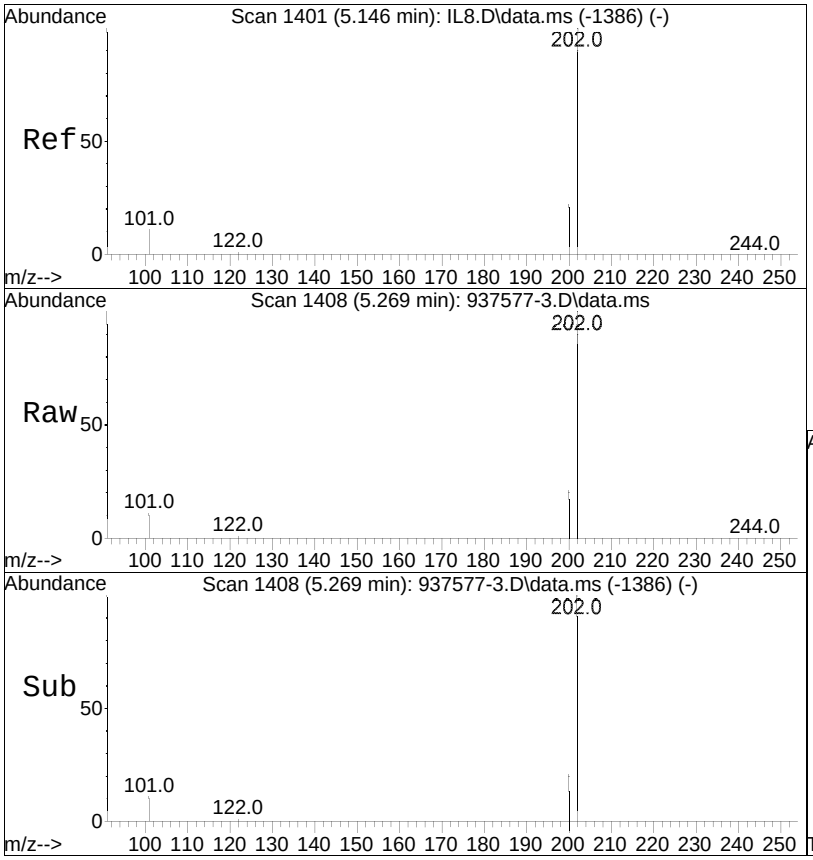


#28
Anthracene
Concen: 1591.89 ng/ml
RT: 4.623 min Scan# 1194
Delta R.T. 0.005 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:178 Resp: 941040

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

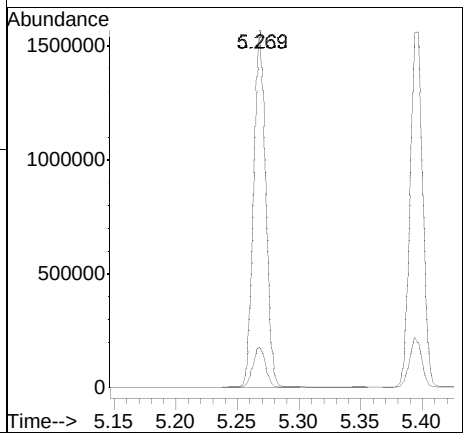


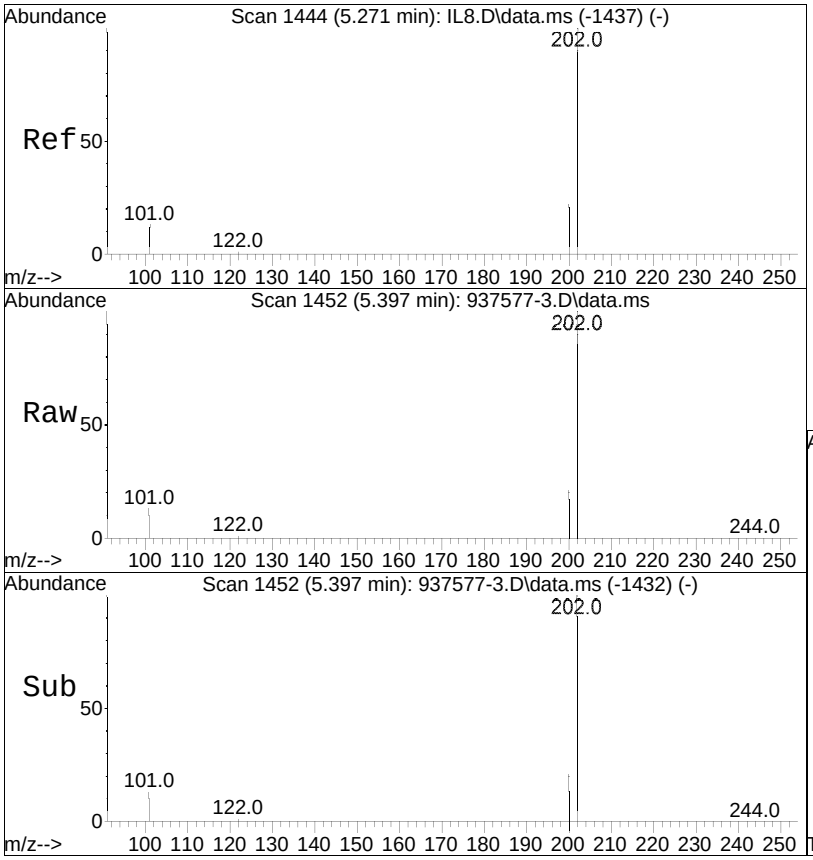


#29
Fluoranthene
Concen: 1531.37 ng/ml
RT: 5.269 min Scan# 1408
Delta R.T. -0.016 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:202 Resp: 1086691

Ion	Ratio	Lower	Upper
202	100		
101	11.7	8.7	13.1

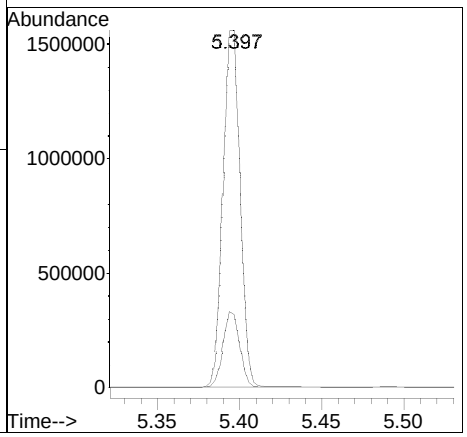


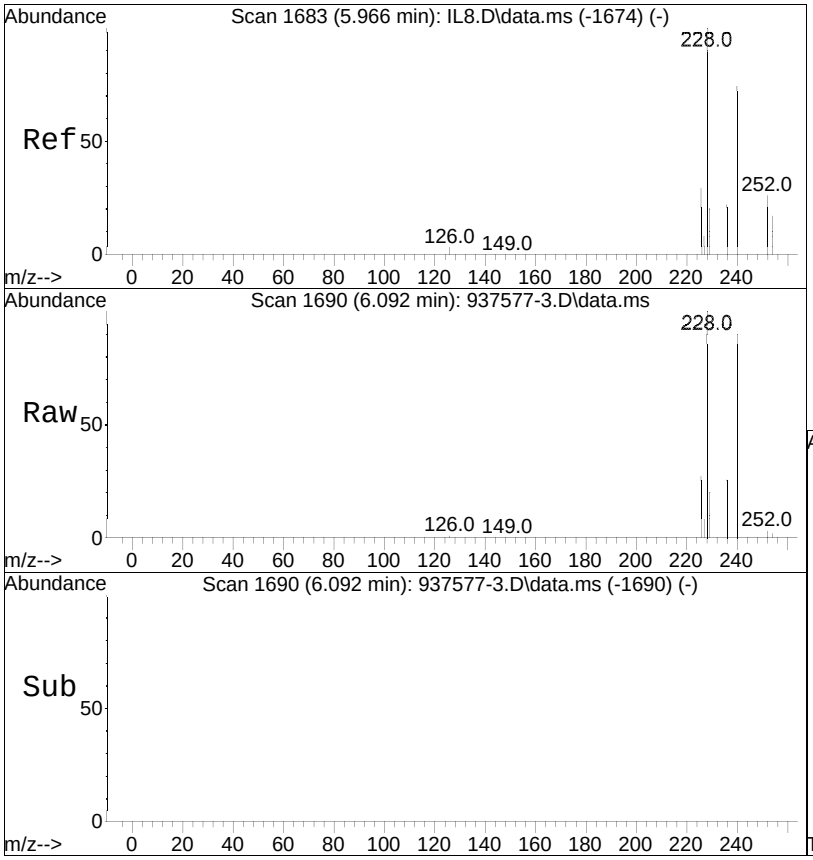


#30
Pyrene
Concen: 1503.14 ng/ml
RT: 5.397 min Scan# 1452
Delta R.T. -0.022 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:202 Resp: 1115284

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

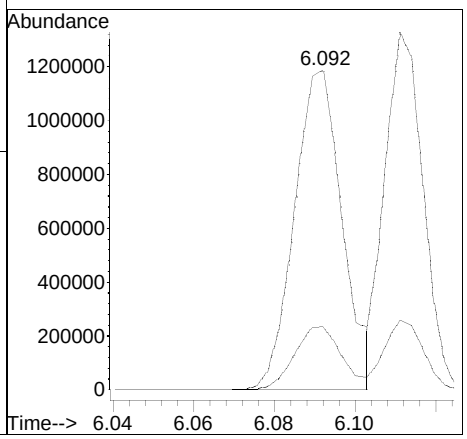


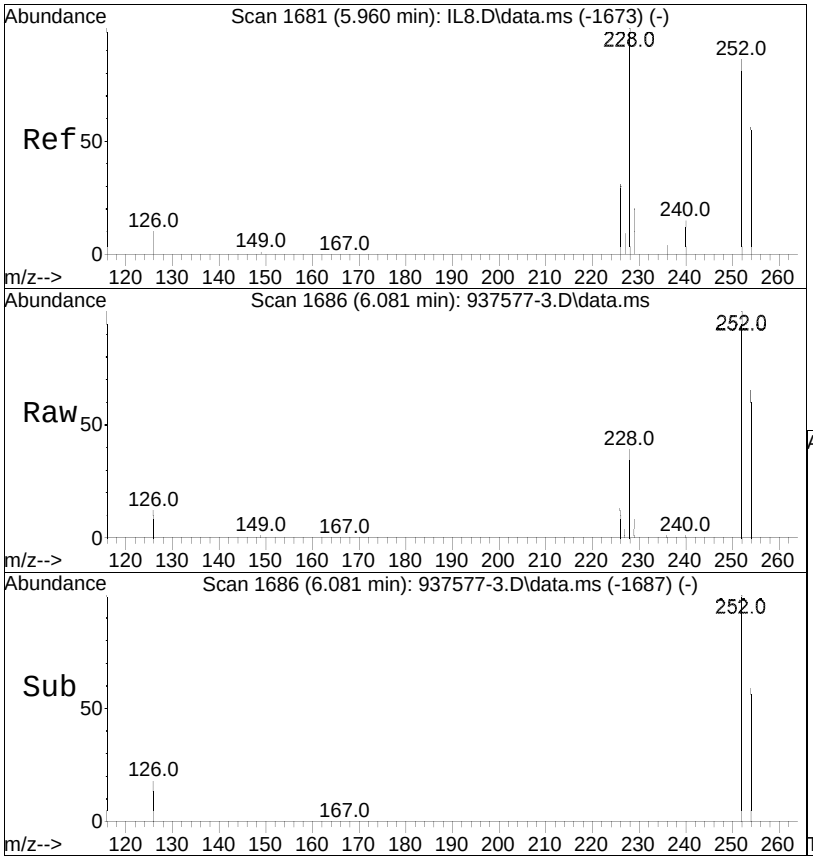


#33
Benzo[a]anthracene
Concen: 1562.70 ng/ml M3
RT: 6.092 min Scan# 1690
Delta R.T. -0.080 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:228 Resp: 976804

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

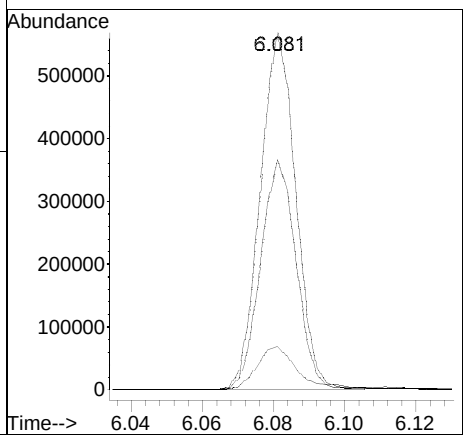


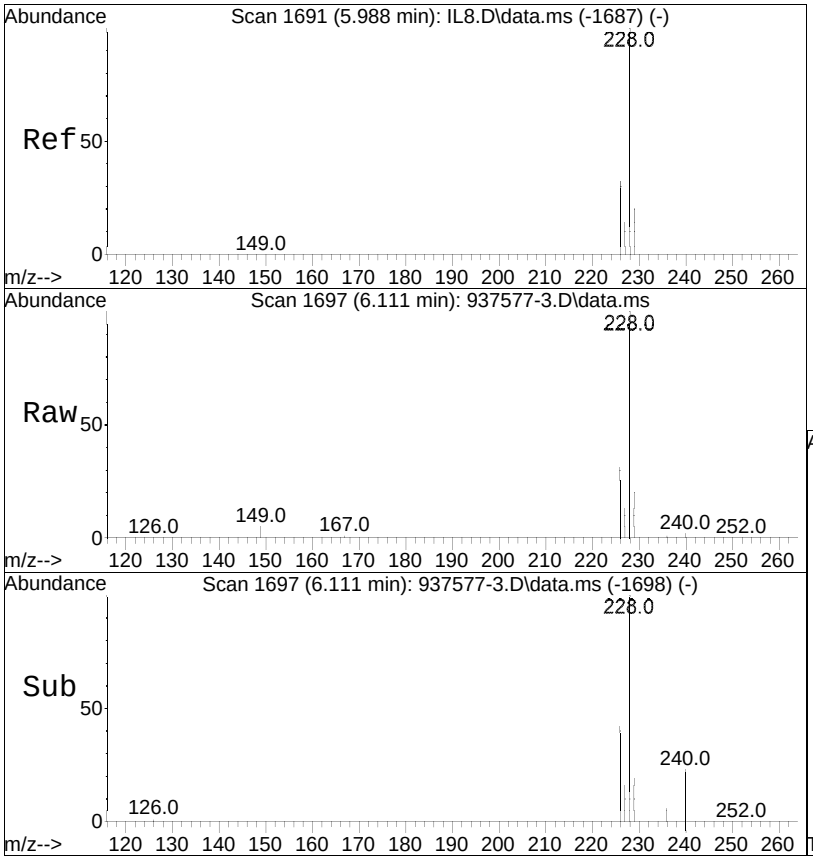


#34
3,3'-Dichlorobenzene
Concen: 1493.75 ng/ml M4
RT: 6.081 min Scan# 1686
Delta R.T. -0.082 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:252 Resp: 391533

Ion	Ratio	Lower	Upper
252	100		
126	12.3	10.6	16.0
254	61.5	51.7	77.5

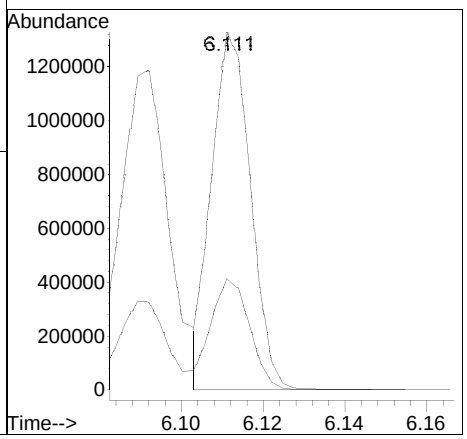


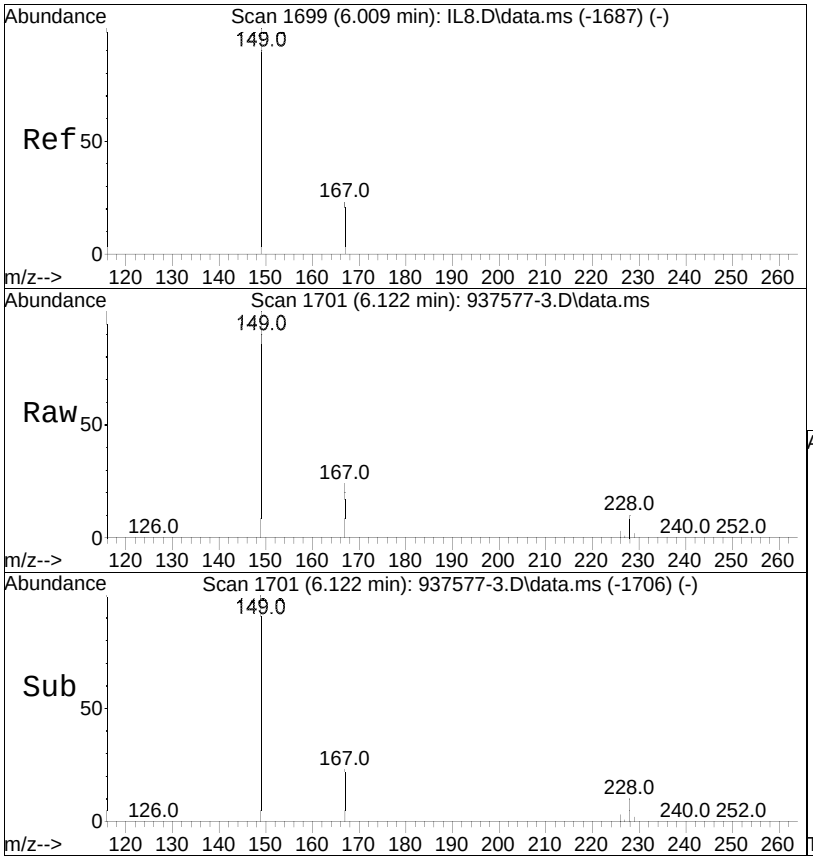


#35
Chrysene
Concen: 1570.46 ng/ml M2
RT: 6.111 min Scan# 1697
Delta R.T. -0.082 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:228 Resp: 877244

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.1	37.7

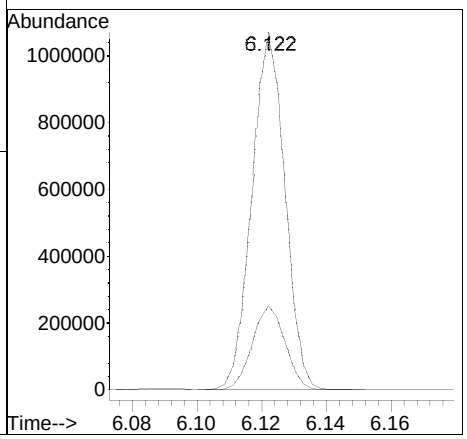


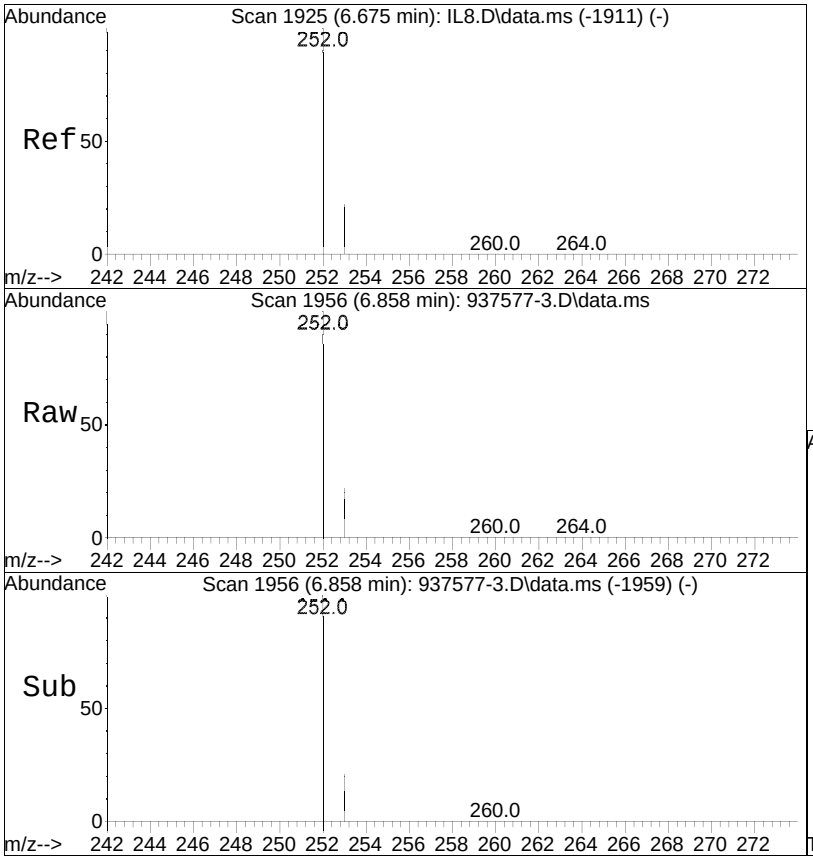


#36
Bis(2-ethylhexyl)phthalate
Concen: 1804.03 ng/ml M1
RT: 6.122 min Scan# 1701
Delta R.T. -0.093 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:149 Resp: 750422

Ion	Ratio	Lower	Upper
149	100		
167	23.4	18.6	27.8

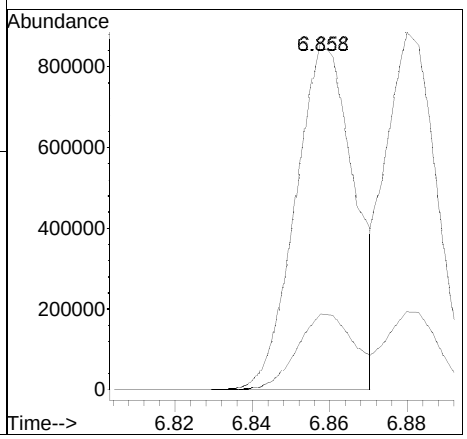


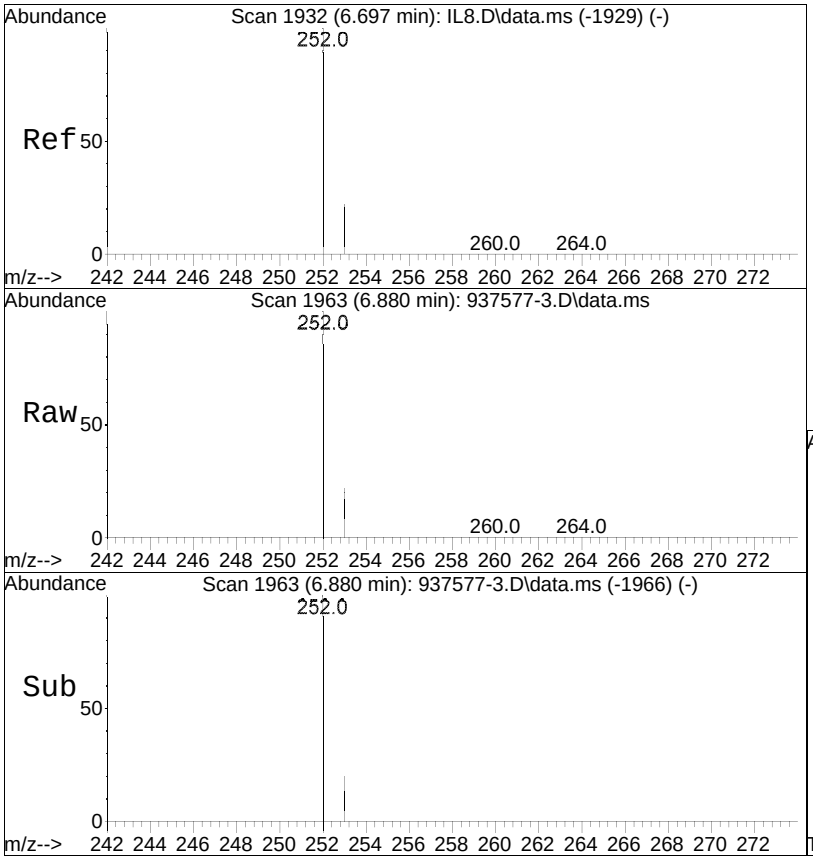


#38
Benzo[b]fluoranthene
Concen: 1674.80 ng/ml M3
RT: 6.858 min Scan# 1956
Delta R.T. -0.089 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:252 Resp: 913426

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

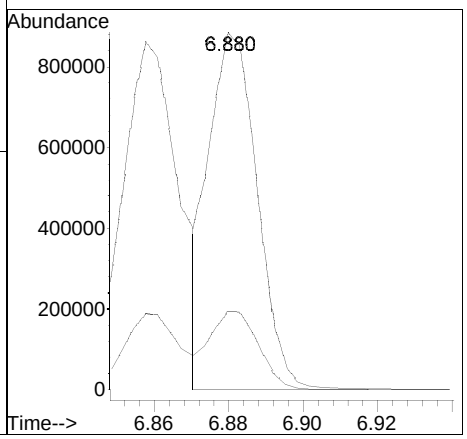


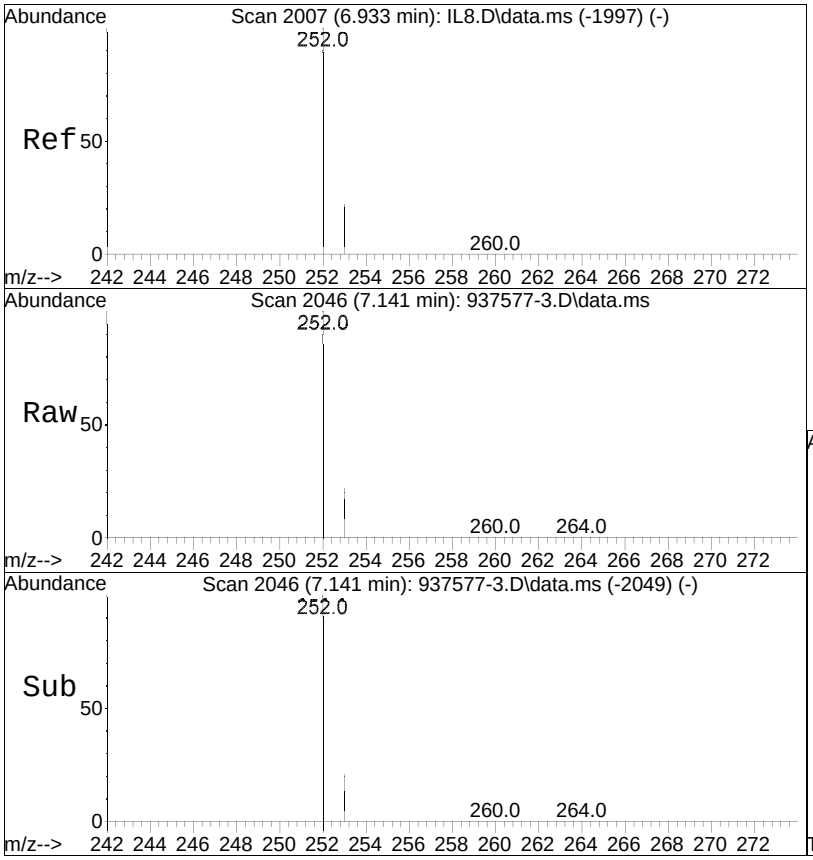


#39
Benzo[k]fluoranthene
Concen: 1574.97 ng/ml M3
RT: 6.880 min Scan# 1963
Delta R.T. -0.089 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:252 Resp: 801167

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5

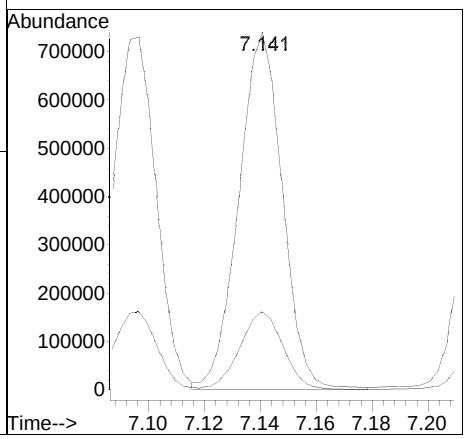


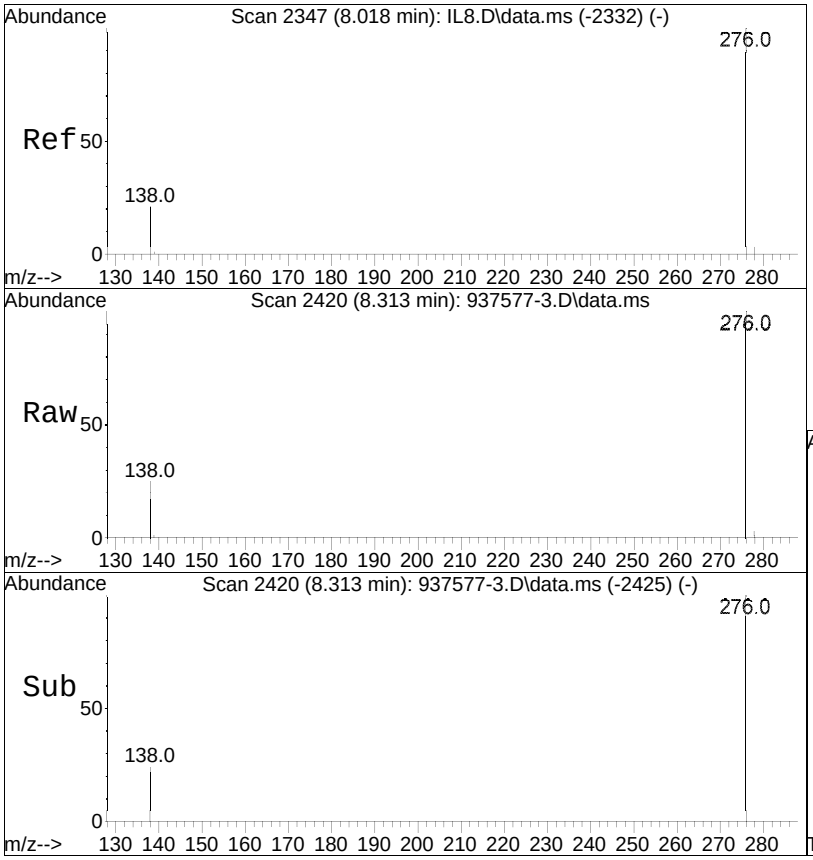


#40
Benzo[a]pyrene
Concen: 1772.57 ng/ml M3
RT: 7.141 min Scan# 2046
Delta R.T. -0.089 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:252 Resp: 801653

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.2

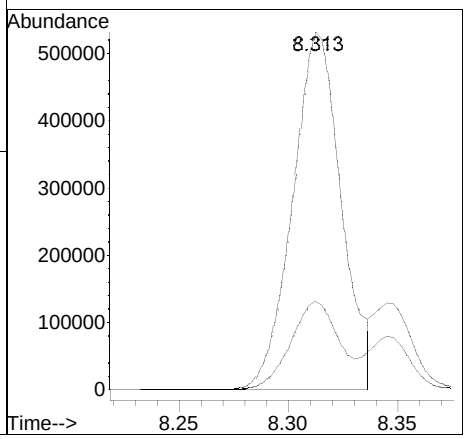


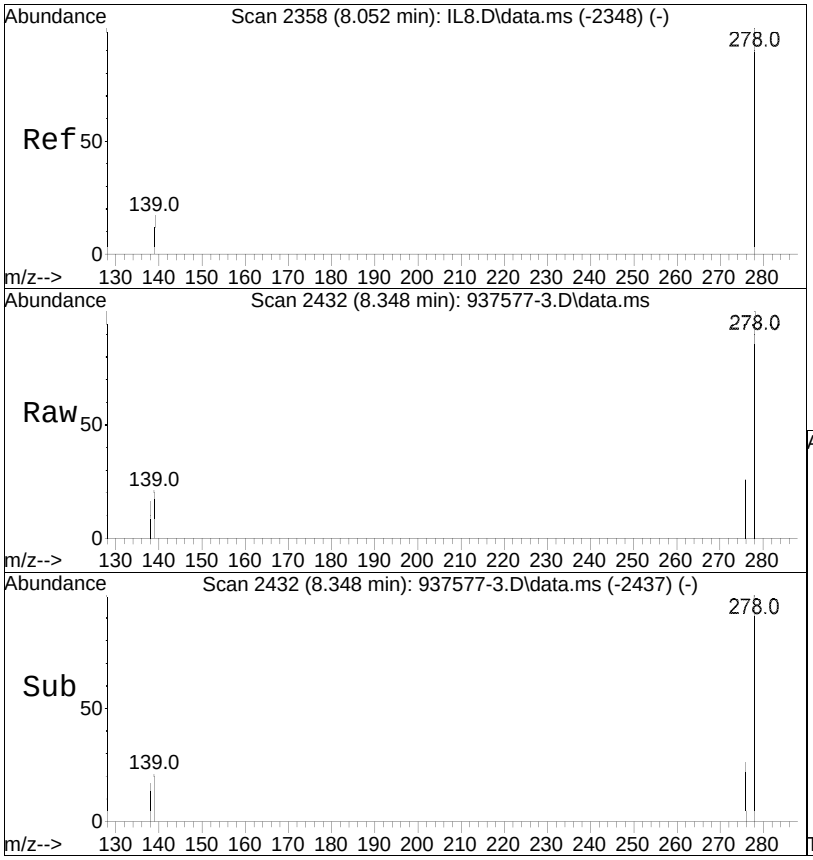


#41
Indeno[1,2,3-cd]pyrene
Concen: 1808.72 ng/ml M2
RT: 8.313 min Scan# 2420
Delta R.T. -0.095 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:276 Resp: 814834

Ion	Ratio	Lower	Upper
276	100		
138	25.5	16.2	24.4#

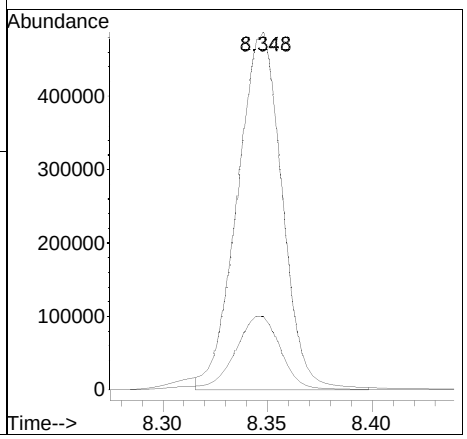


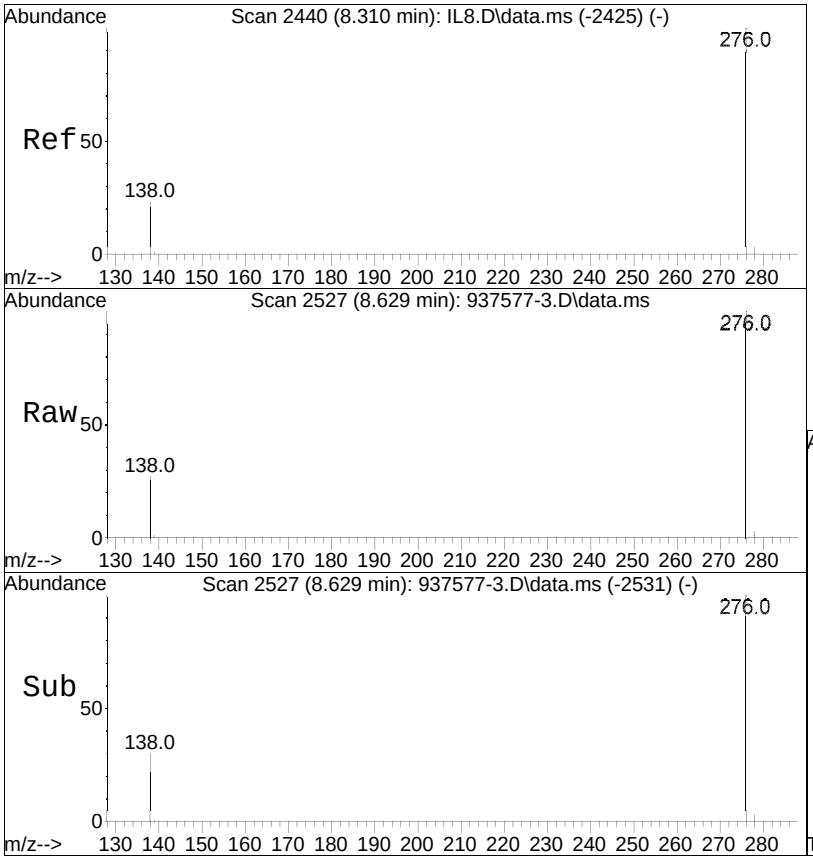


#42
Dibenzo[a,h]anthracene
Concen: 1720.24 ng/ml M2
RT: 8.348 min Scan# 2432
Delta R.T. -0.095 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:278 Resp: 718408

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.5	21.7

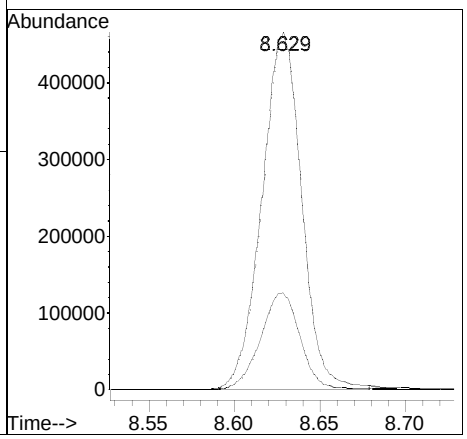




#43
Benzo[g,h,i]perylene
Concen: 1642.86 ng/ml M2
RT: 8.629 min Scan# 2527
Delta R.T. -0.092 min
Lab File: 937577-3.D
Acq: 21 Jun 2024 12:55 pm

Tgt Ion:276 Resp: 744873

Ion	Ratio	Lower	Upper
276	100		
138	27.0	18.5	27.7

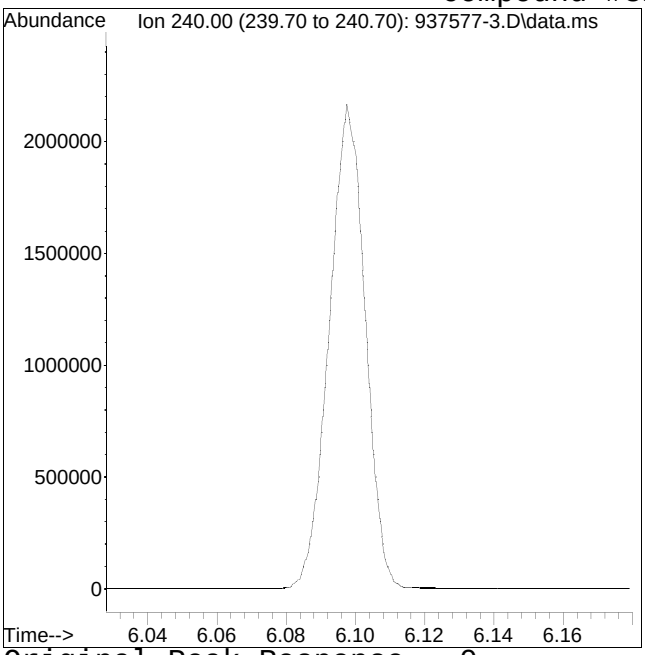


Manual Integration Report

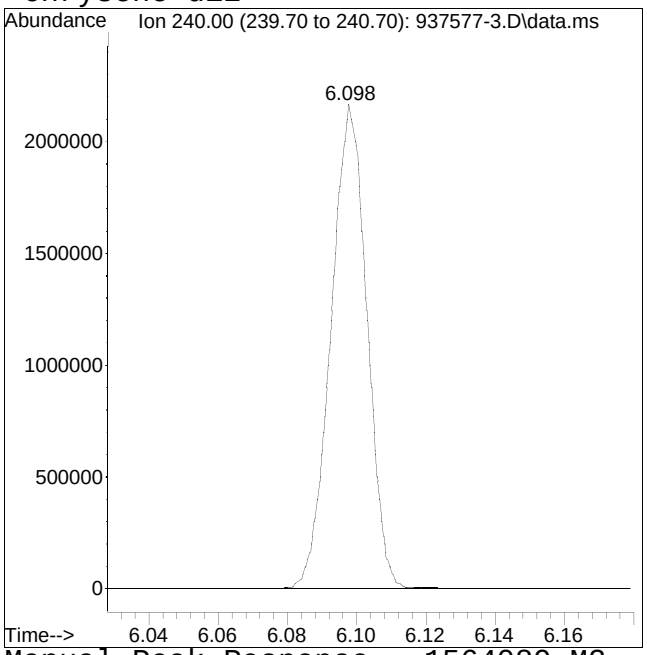
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #32: Chrysene-d12



Original Peak Response = 0



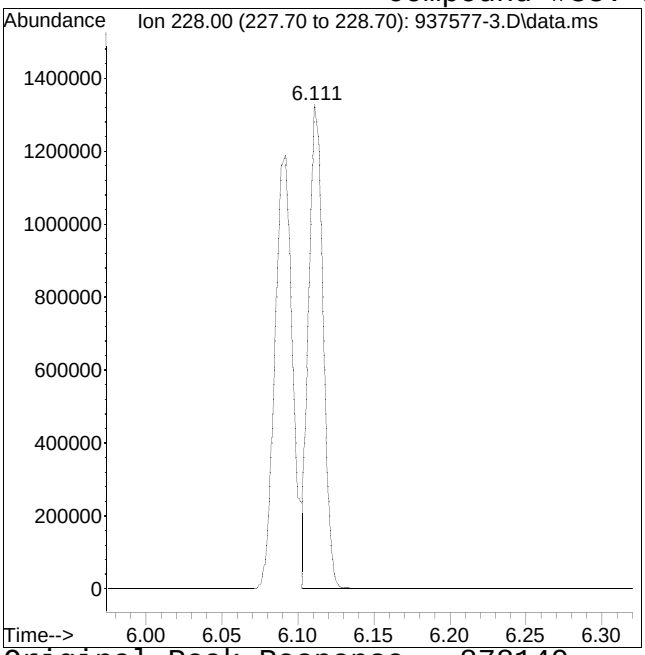
Manual Peak Response = 1564089 M2

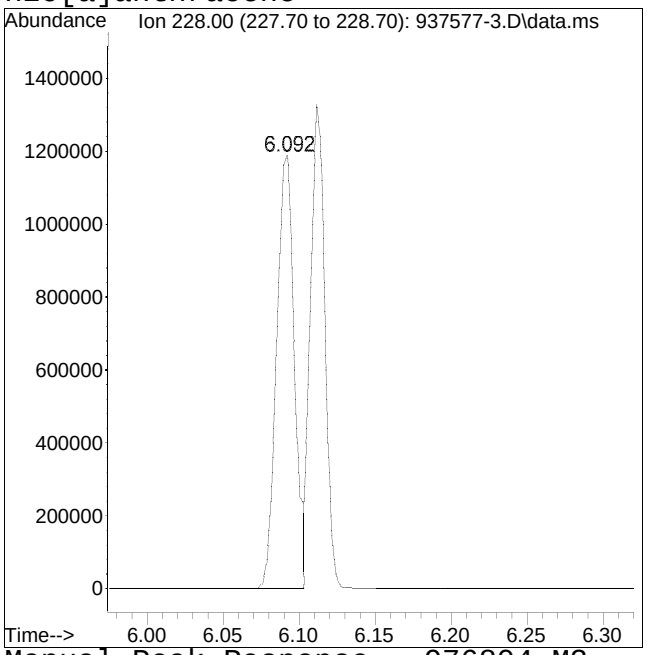
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-3.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:55 pm Instrument : SV125
Sample : WG1937577-3,32,,rp Quant Date : 6/21/2024 1:09 pm

Compound #33: Benzo[a]anthracene





Original Peak Response = 878140 Manual Peak Response = 976804 M3

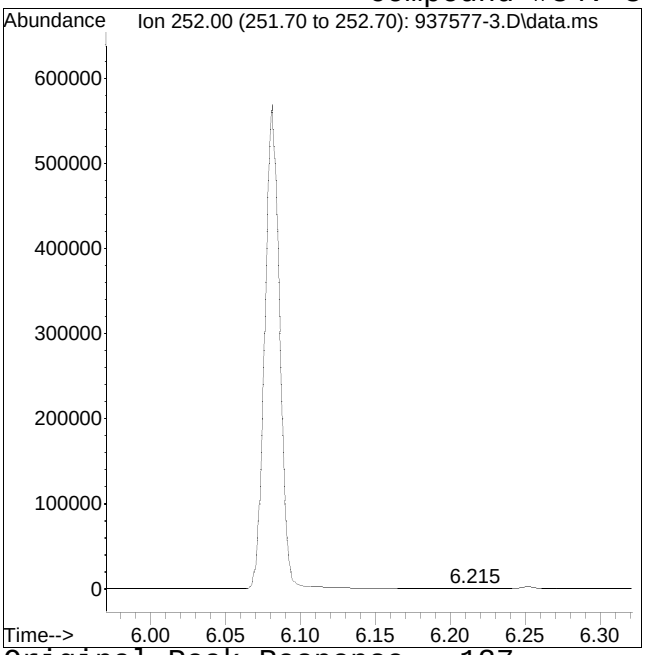
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

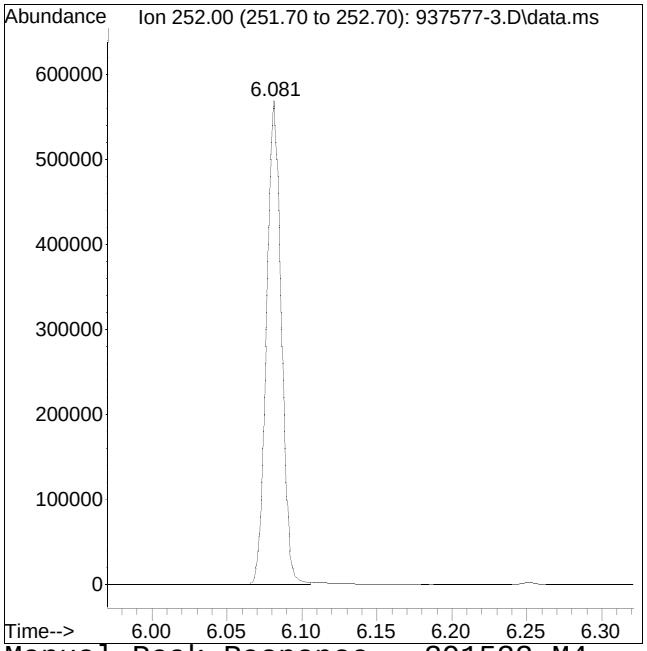
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #34: 3,3'-Dichlorobenzene



Original Peak Response = 127



Manual Peak Response = 391533 M4

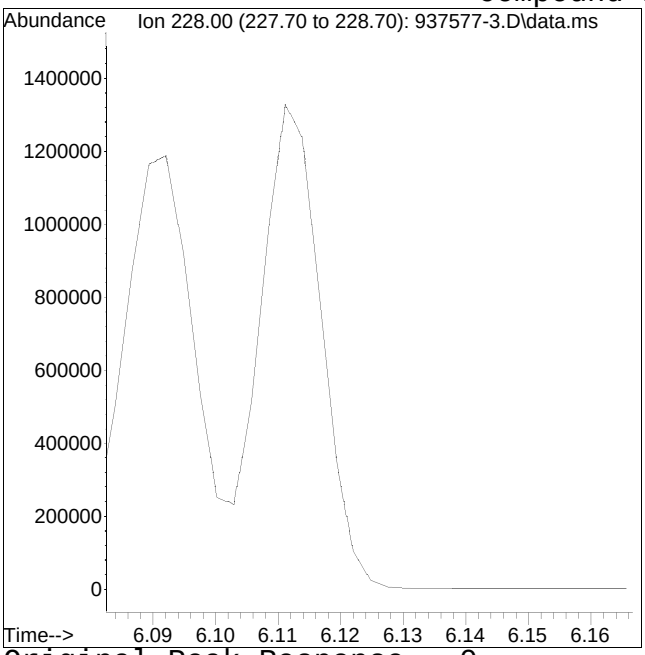
M4 = Poor automated baseline construction.

Manual Integration Report

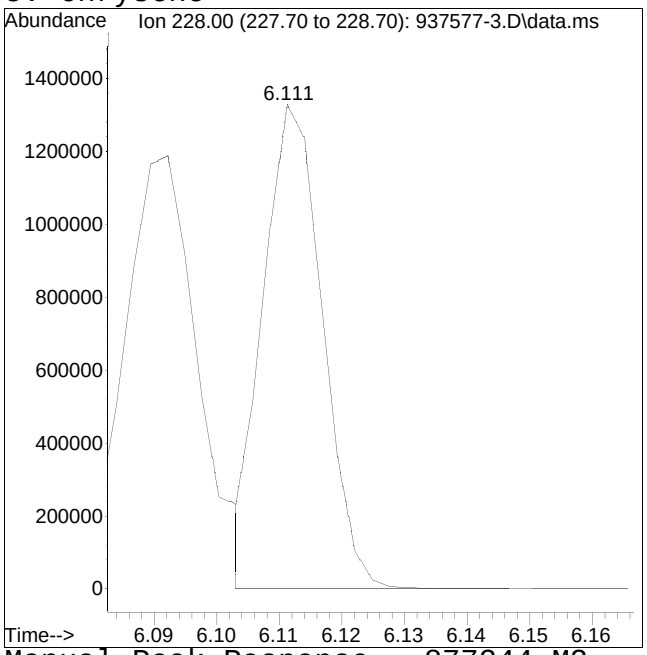
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #35: Chrysene



Original Peak Response = 0



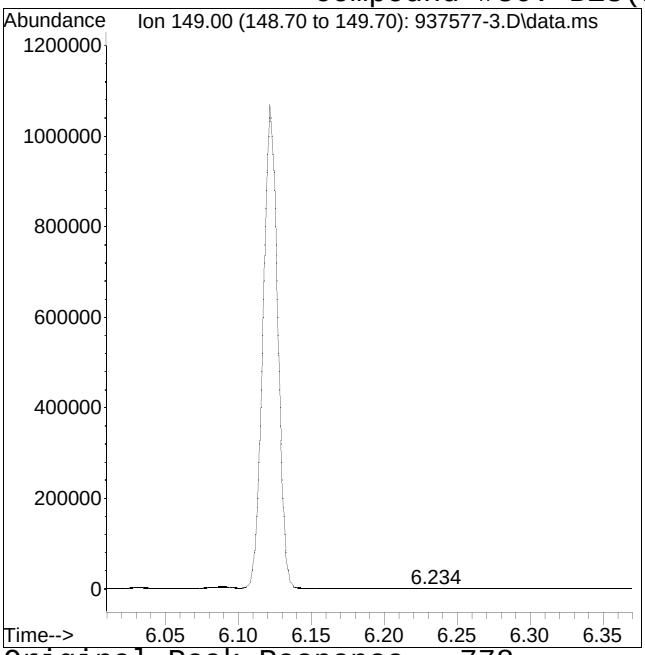
Manual Peak Response = 877244 M2

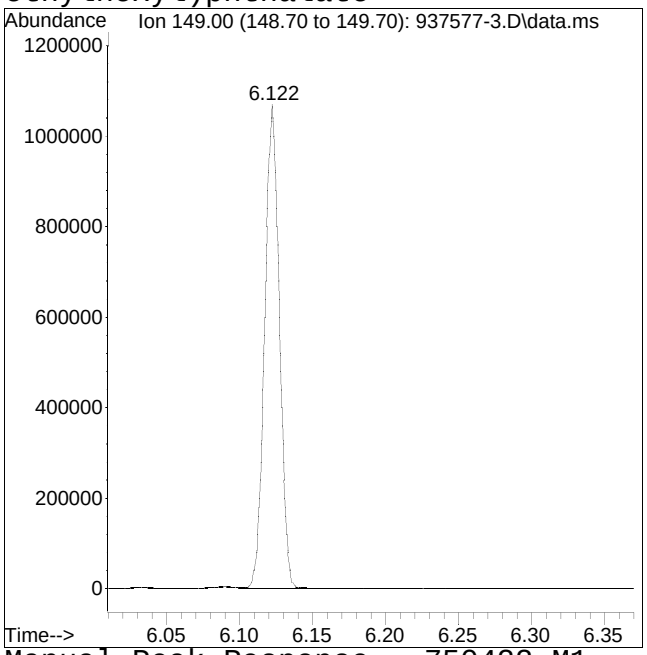
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-3.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:55 pm Instrument : SV125
Sample : WG1937577-3,32,,rp Quant Date : 6/21/2024 1:09 pm

Compound #36: Bis(2-ethylhexyl)phthalate





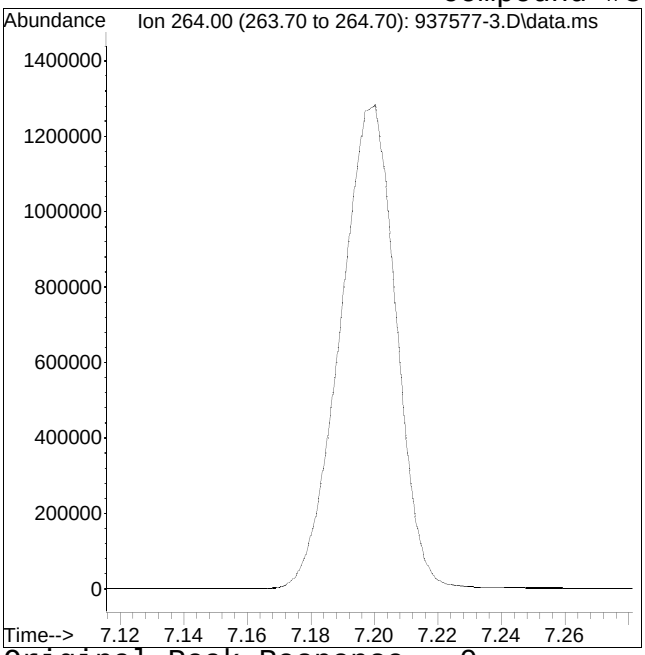
Original Peak Response = 778 Manual Peak Response = 750422 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

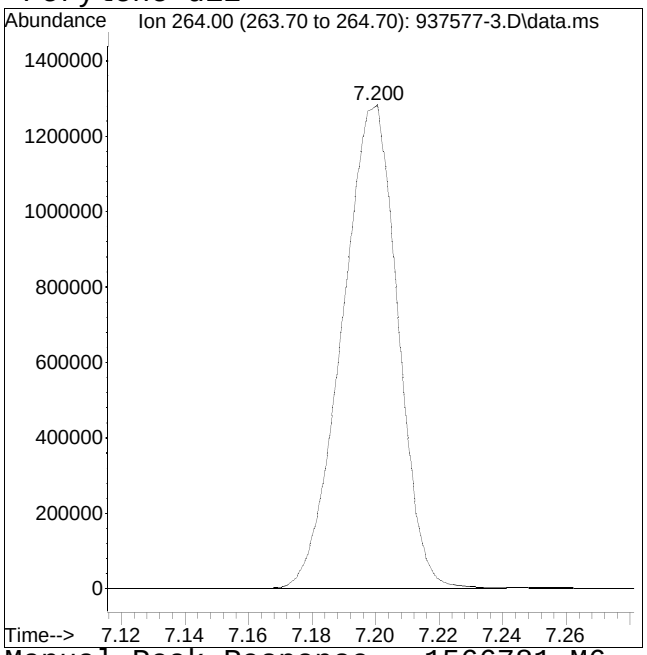
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #37: Perylene-d12



Original Peak Response = 0



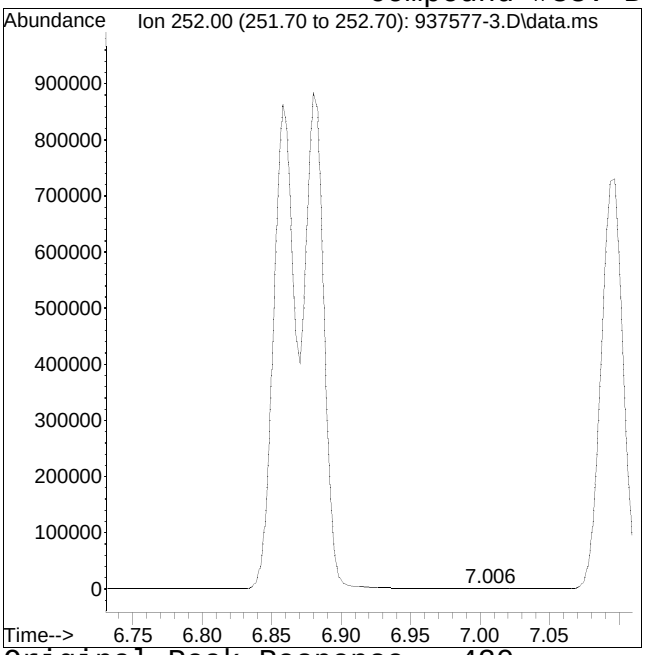
Manual Peak Response = 1566781 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

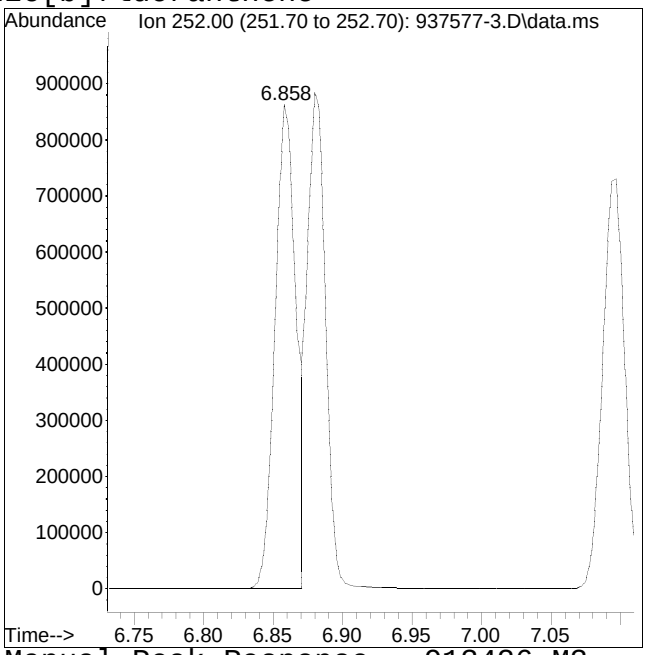
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp
Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #38: Benzo[b]fluoranthene



Original Peak Response = 420



Manual Peak Response = 913426 M3

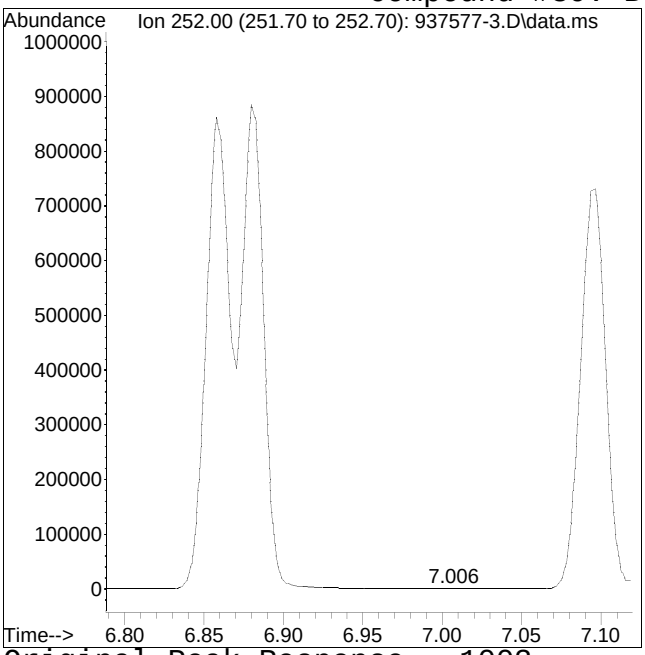
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

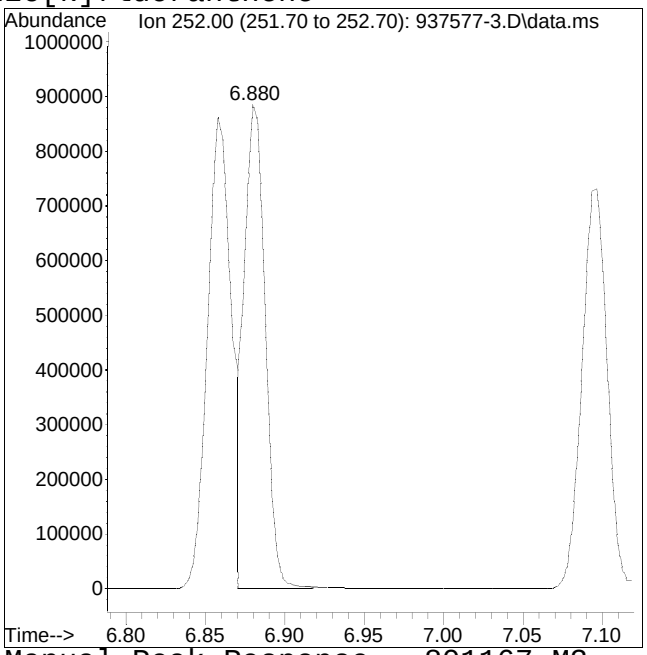
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #39: Benzo[k]fluoranthene





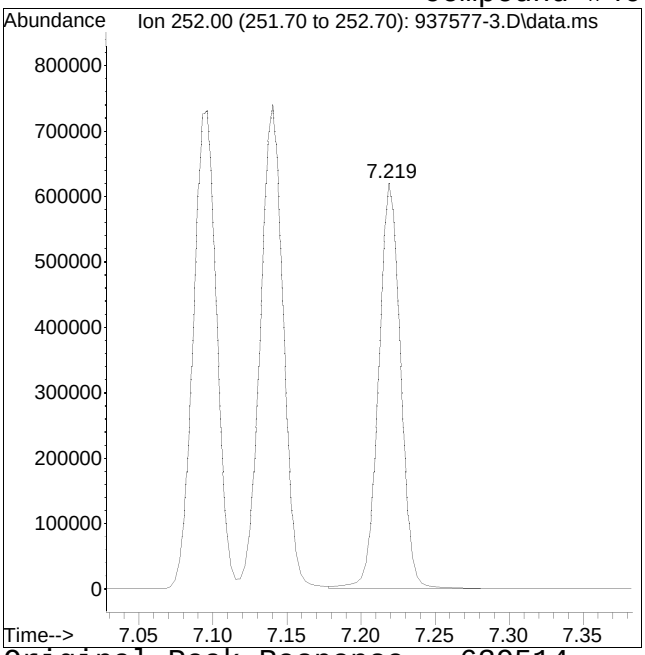
Original Peak Response = 1003 Manual Peak Response = 801167 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

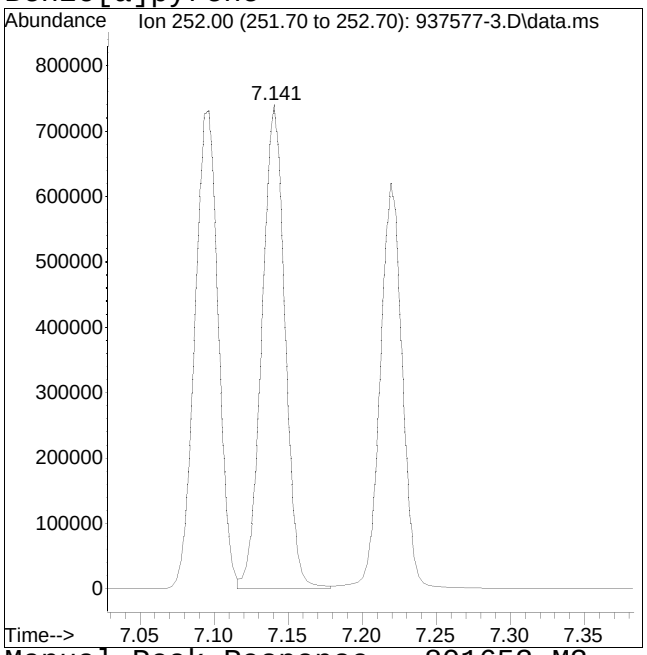
Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-3.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:55 pm Instrument : SV125
Sample : WG1937577-3,32,,rp Quant Date : 6/21/2024 1:09 pm

Compound #40: Benzo[a]pyrene



Original Peak Response = 639514



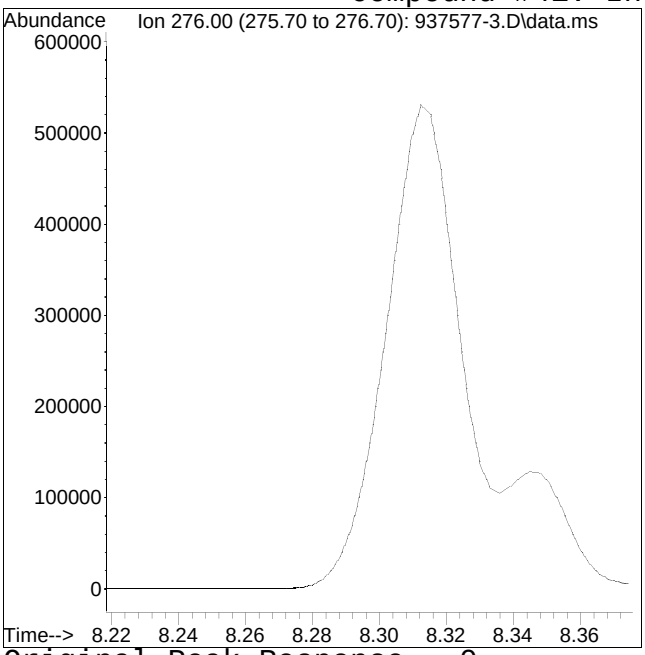
Manual Peak Response = 801653 M3

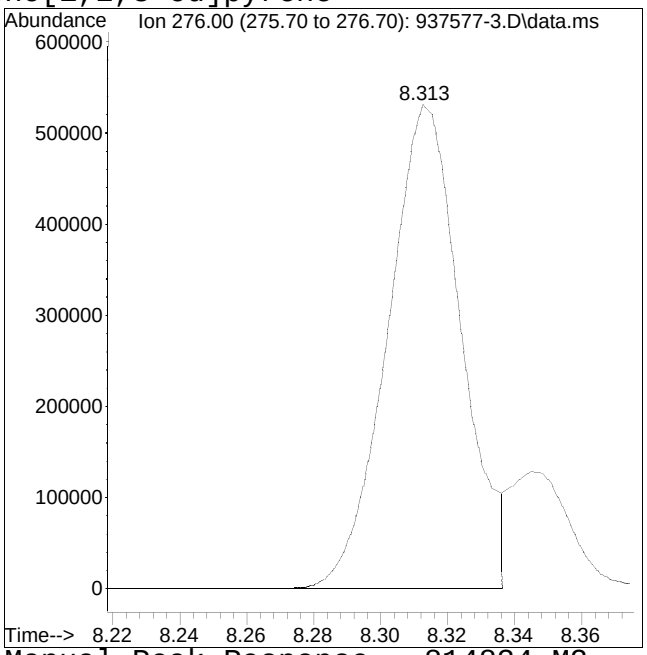
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV125\240621RVTQMethod : SIM-RVT_240223_sv125.M
Data File : 937577-3.D Operator : SV125:rp
Date Inj'd : 6/21/2024 12:55 pm Instrument : SV125
Sample : WG1937577-3,32,,rp Quant Date : 6/21/2024 1:09 pm

Compound #41: Indeno[1,2,3-cd]pyrene





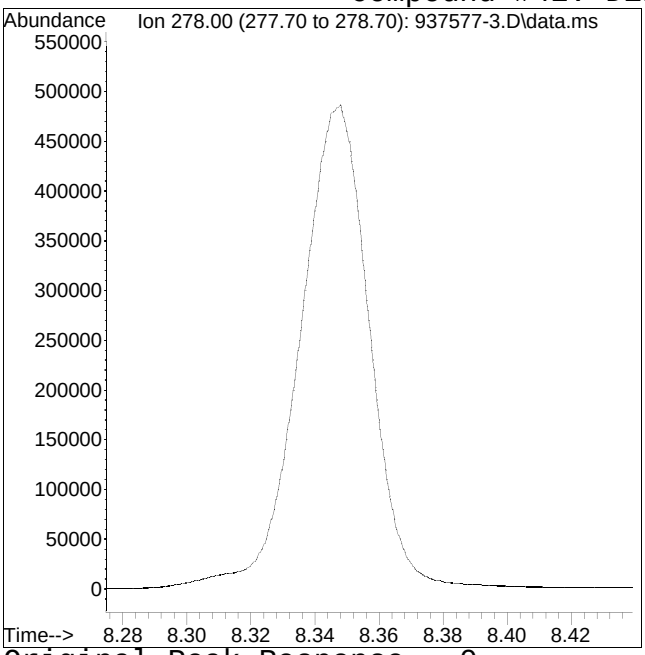
Original Peak Response = 0 Manual Peak Response = 814834 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

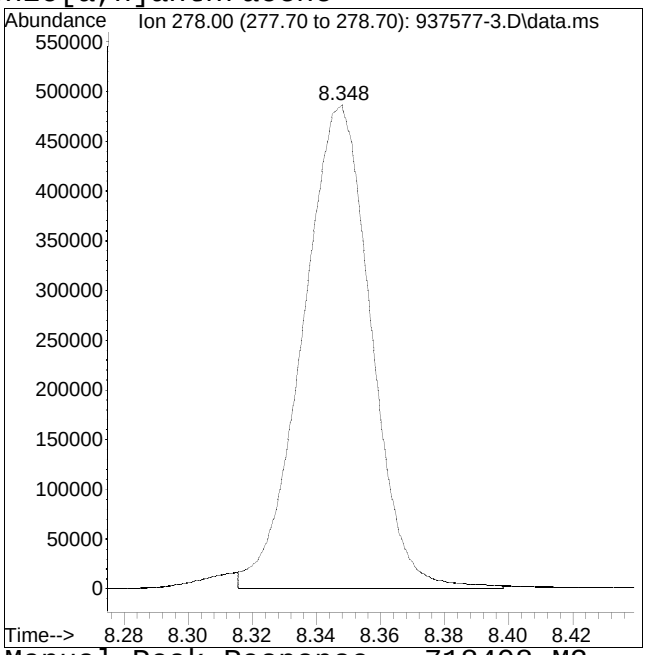
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 0



Manual Peak Response = 718408 M2

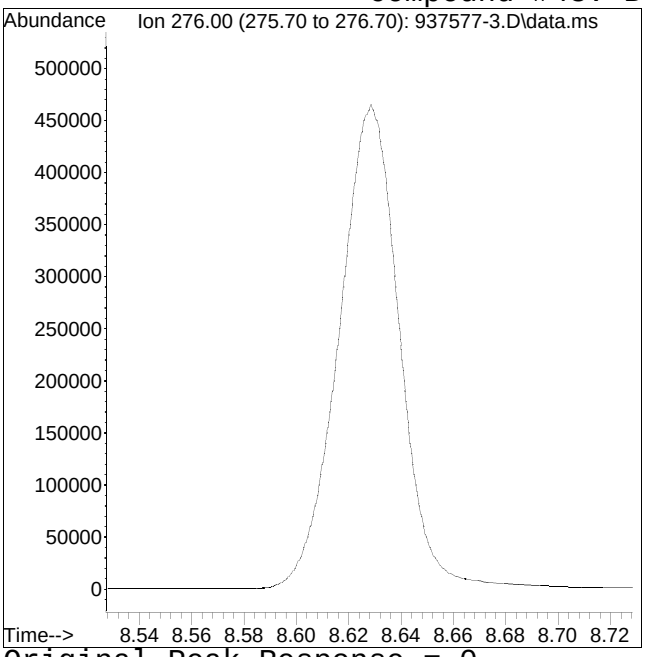
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

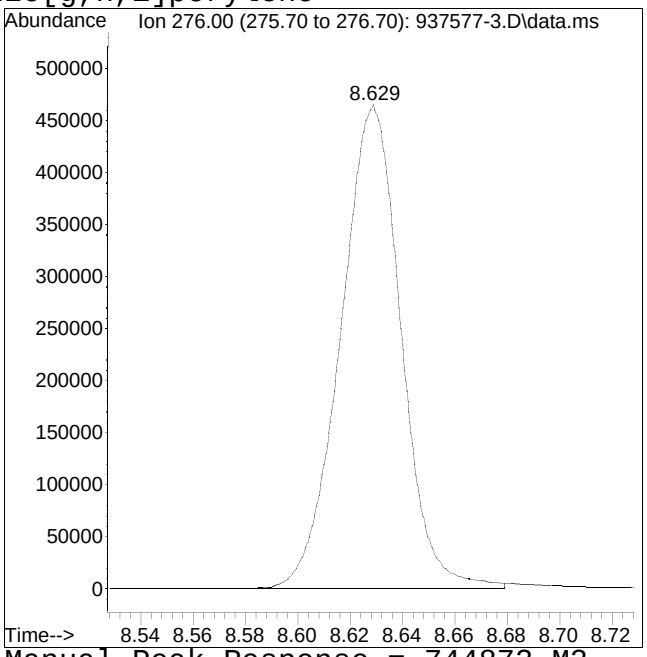
Data Path : I:\8270SIM\SV125\240621RVTQ
Data File : 937577-3.D
Date Inj'd : 6/21/2024 12:55 pm
Sample : WG1937577-3,32,,rp

Method : SIM-RVT_240223_sv125.M
Operator : SV125:rp
Instrument : SV125
Quant Date : 6/21/2024 1:09 pm

Compound #43: Benzo[g,h,i]perylene



Original Peak Response = 0



Manual Peak Response = 744873 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-4.D
Acq On : 20 Jun 2024 09:42 pm
Operator : SV125:jjw
Sample : WG1936909-4,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jun 21 09:12:25 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.104	152	420355	4000.000	ng/ml	0.00
Standard Area 1 = 473486			Recovery = 88.78%			
9) Naphthalene-d8	2.768	136	1634141	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 89.76%			
18) Acenaphthene-d10	3.748	164	895287	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 86.27%			
23) Phenanthrene-d10	4.586	188	1766171	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 83.56%			
32) Chrysene-d12	6.098	240	1400932M1	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 87.63%			
37) Perylene-d12	7.201	264	1588150	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 101.07%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.526	112	63106	507.596	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 10.15%#			
4) Phenol-d6	1.924	99	78665	546.537	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 10.93%#			
8) Nitrobenzene-d5	2.385	82	106594	914.222	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 36.57%			
14) 2-Fluorobiphenyl	3.372	172	252084	671.798	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 26.87%#			
22) 2,4,6-Tribromophenol	4.194	330	32591	652.584	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 13.05%#			
31) 4-Terphenyl-d14	5.493	244	234347	649.353	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 25.97%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	1.969	93	206372	1608.947	ng/ml	95
7) Hexachloroethane	2.362	117	75557	1325.285	ng/ml	98
10) Naphthalene	2.780	128	625127	1370.220	ng/ml#	100
11) Hexachlorobutadiene	2.856	225	97114	1117.060	ng/ml	99
12) 2-Methylnaphthalene	3.162	142	428480	1466.161	ng/ml	98
15) 2-Chloronaphthalene	3.433	162	420912	1294.889	ng/ml	90
17) Acenaphthylene	3.666	152	673760	1393.260	ng/ml	96
19) Acenaphthene	3.764	153	444934	1453.590	ng/ml	99
21) Fluorene	4.057	166	485988	1387.358	ng/ml	99
25) Hexachlorobenzene	4.370	284	148855	1217.982	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-4.D
Acq On : 20 Jun 2024 09:42 pm
Operator : SV125:jjw
Sample : WG1936909-4,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jun 21 09:12:25 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	4.485	266	16273	264.615	ng/ml	100
27) Phenanthrene	4.598	178	684082	1339.442	ng/ml	100
28) Anthracene	4.624	178	715354	1449.966	ng/ml	100
29) Fluoranthene	5.269	202	833513	1407.404	ng/ml	98
30) Pyrene	5.397	202	862403	1392.695	ng/ml	98
33) Benzo[a]anthracene	6.092	228	797204	1423.159	ng/ml	100
35) Chrysene	6.114	228	736955	1472.959	ng/ml	99
38) Benzo[b]fluoranthene	6.861	252	806344	1458.572	ng/ml	100
39) Benzo[k]fluoranthene	6.883	252	762388	1478.572	ng/ml	100
40) Benzo[a]pyrene	7.141	252	742209	1619.051	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.315	276	858988	1881.074	ng/ml#	91
42) Dibenzo[a,h]anthracene	8.351	278	752870M6	1778.507	ng/ml	
43) Benzo[g,h,i]perylene	8.632	276	795390	1730.674	ng/ml	92

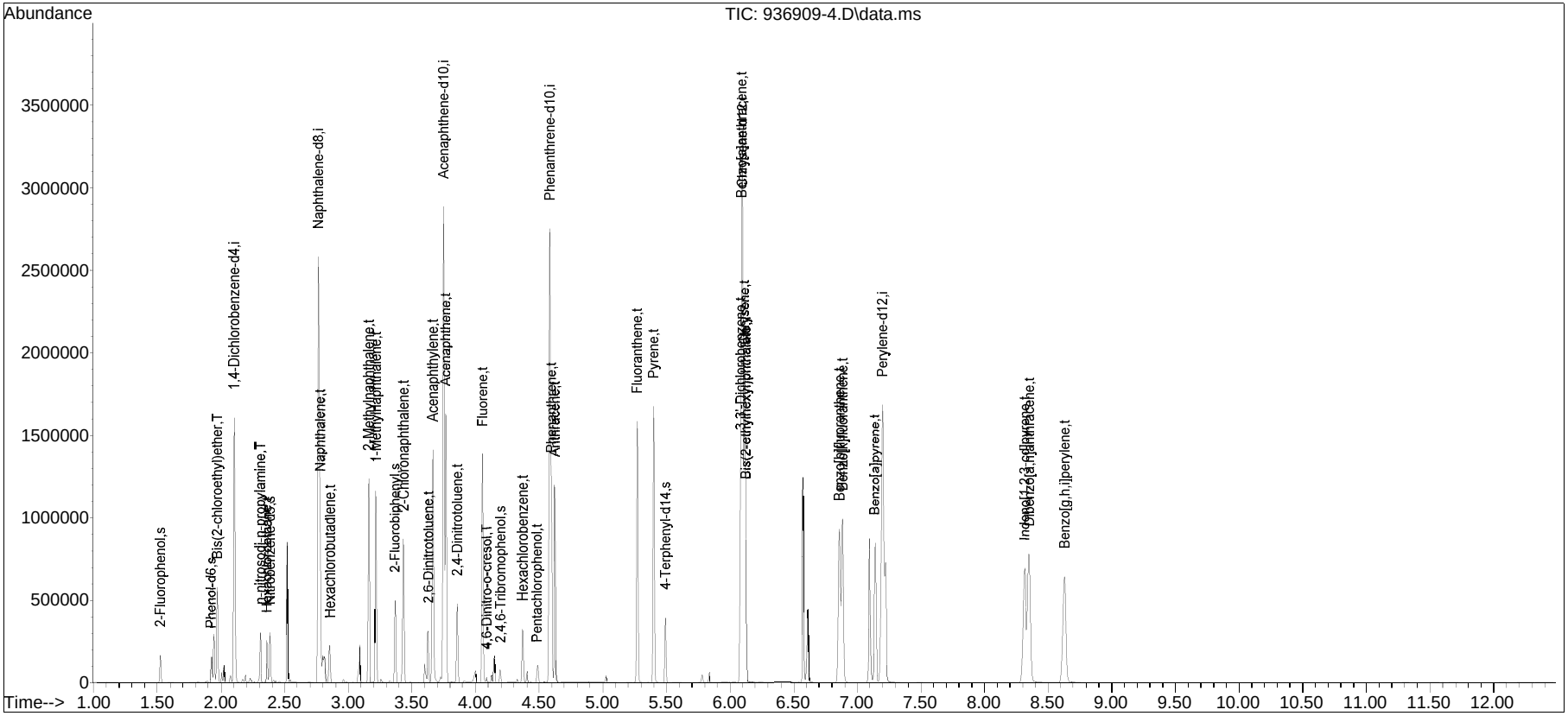
(#) = qualifier out of range (m) = manual integration (+) = signals summed

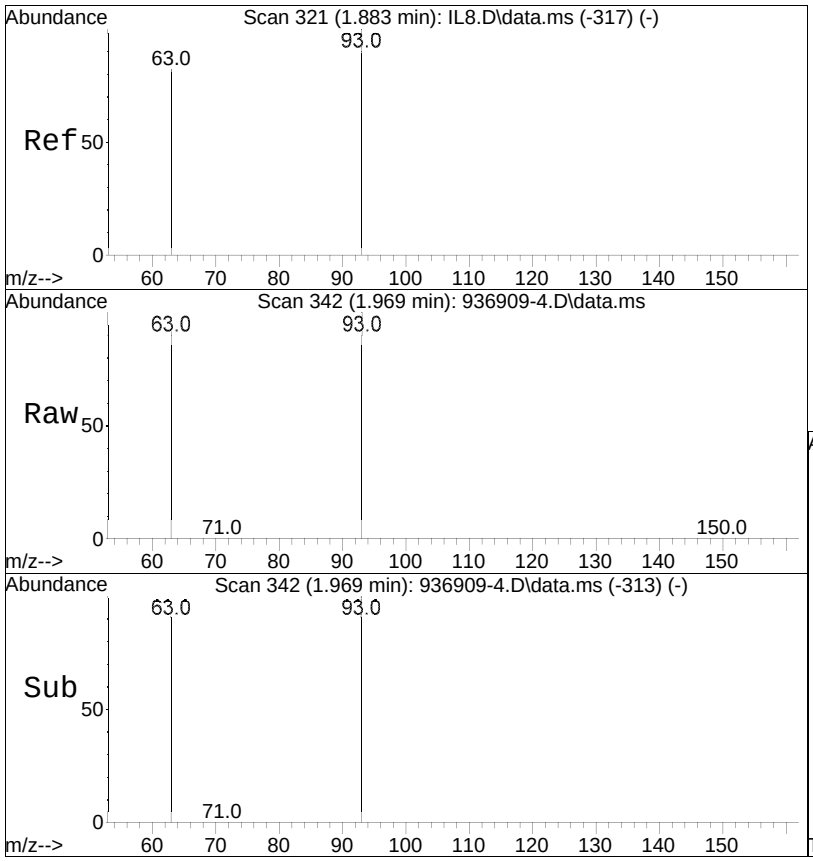
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-4.D
Acq On : 20 Jun 2024 09:42 pm
Operator : SV125:jjw
Sample : WG1936909-4,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jun 21 09:12:25 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

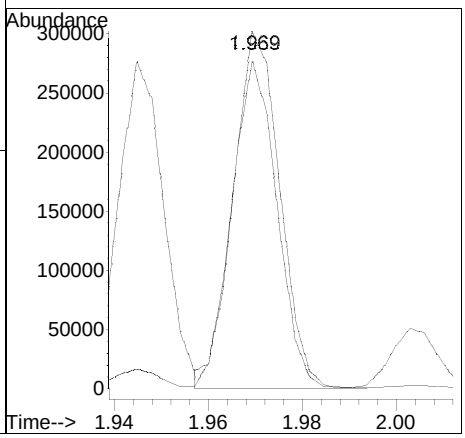


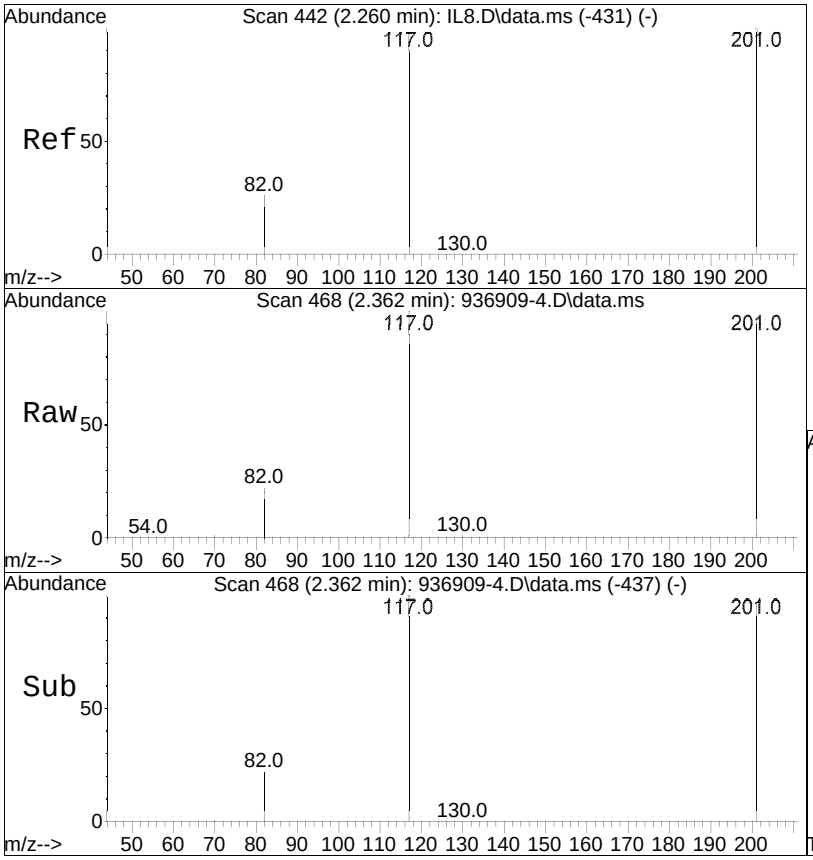


#5
Bis(2-chloroethyl)ether
Concen: 1608.95 ng/ml
RT: 1.969 min Scan# 342
Delta R.T. 0.009 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion: 93 Resp: 206372

Ion	Ratio	Lower	Upper
93	100		
63	89.5	67.7	101.5

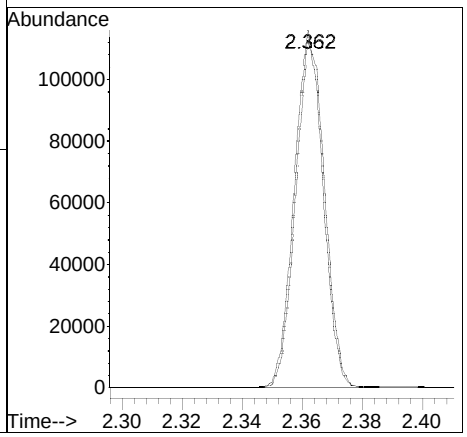


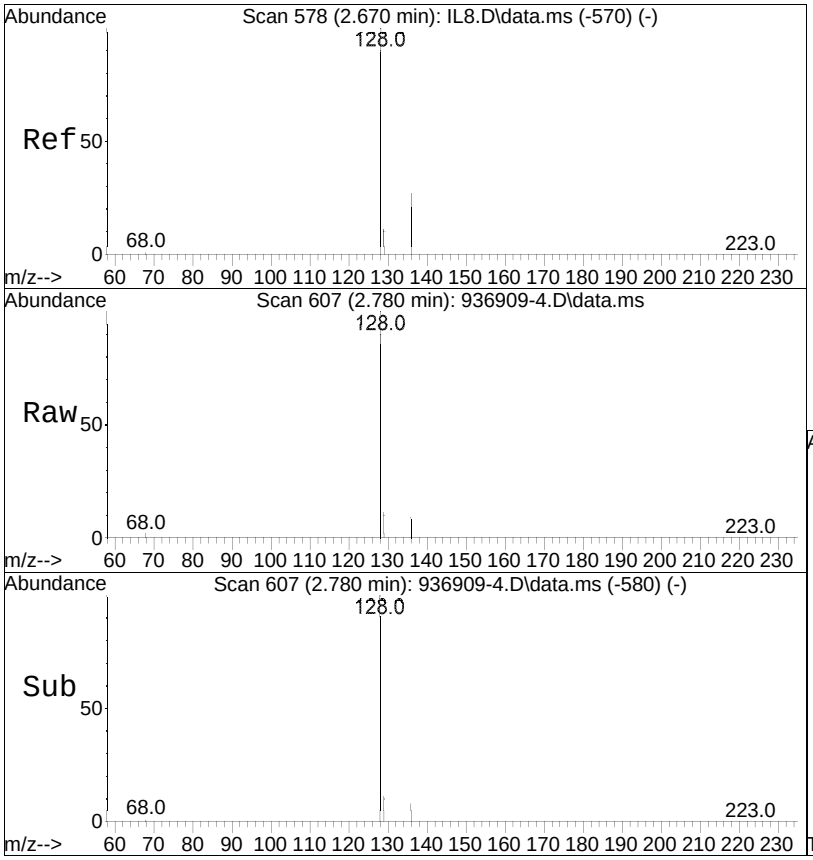


#7
Hexachloroethane
Concen: 1325.28 ng/ml
RT: 2.362 min Scan# 468
Delta R.T. 0.008 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:117 Resp: 75557

Ion	Ratio	Lower	Upper
117	100		
201	99.1	80.8	121.2

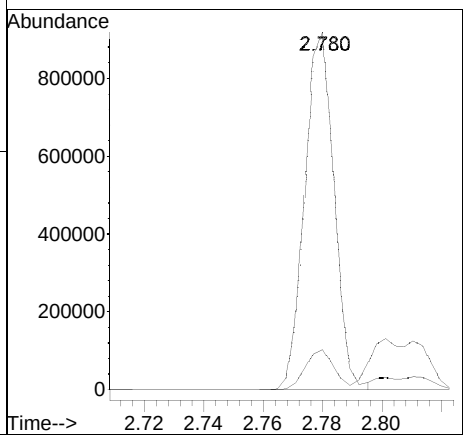


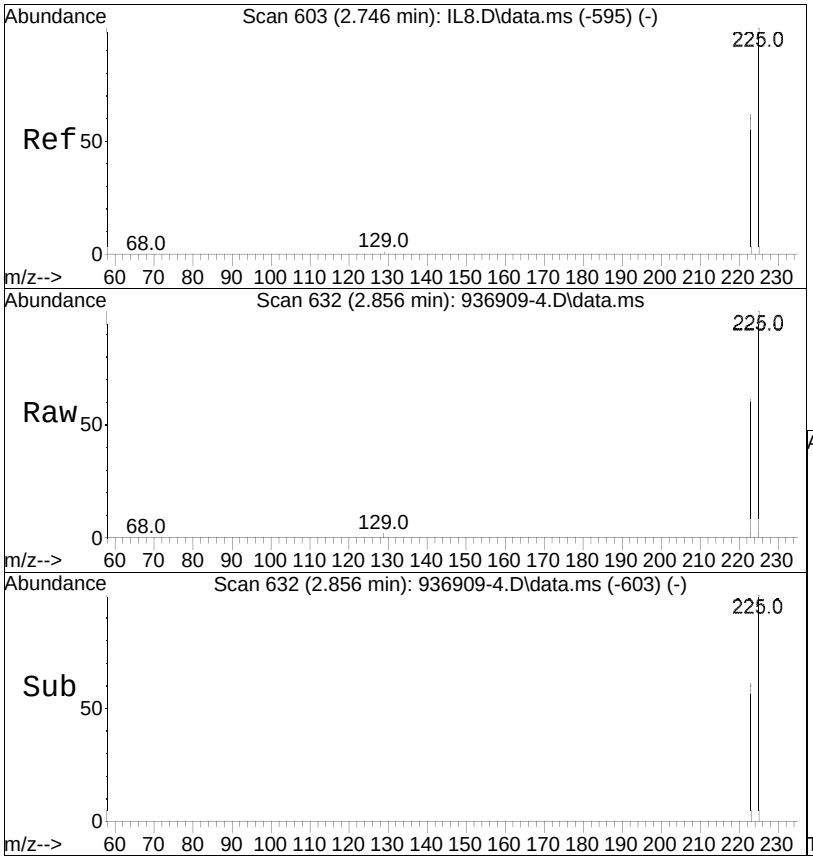


#10
Naphthalene
Concen: 1370.22 ng/ml
RT: 2.780 min Scan# 607
Delta R.T. 0.006 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:128 Resp: 625127

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

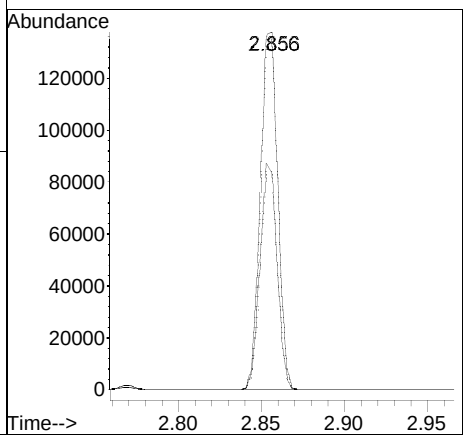


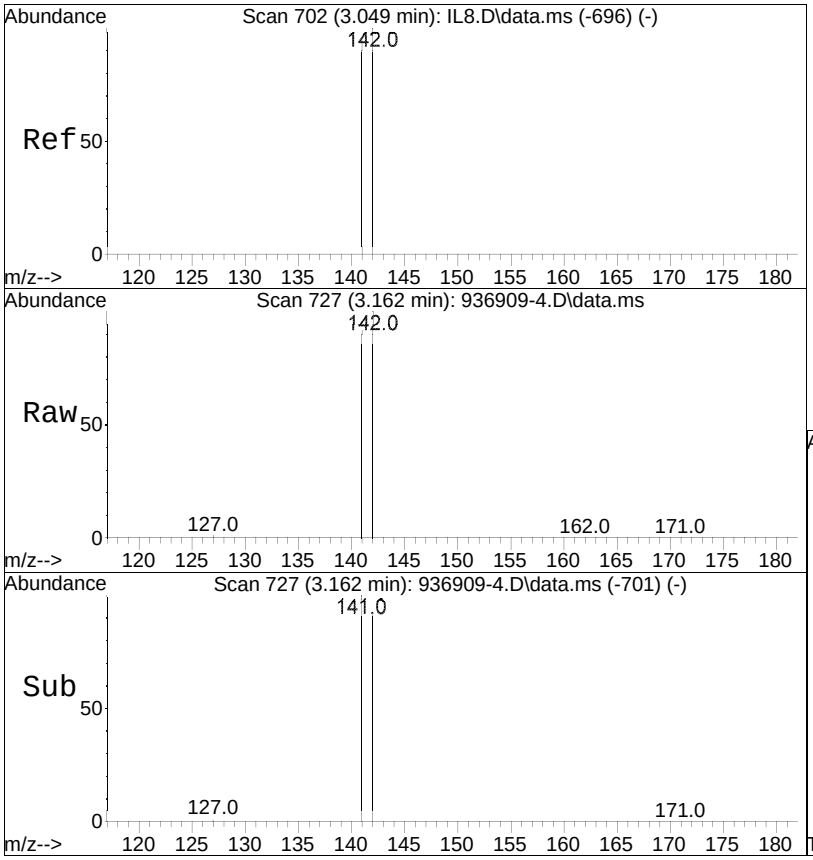


#11
Hexachlorobutadiene
Concen: 1117.06 ng/ml
RT: 2.856 min Scan# 632
Delta R.T. 0.009 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:225 Resp: 97114

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4

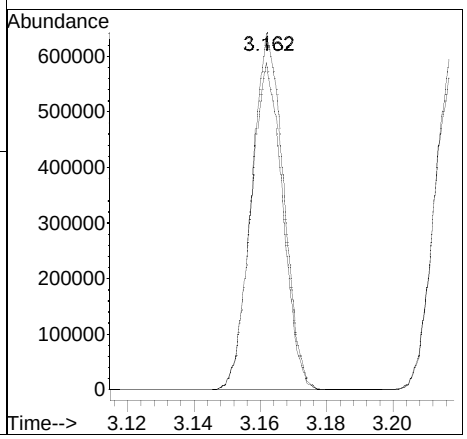


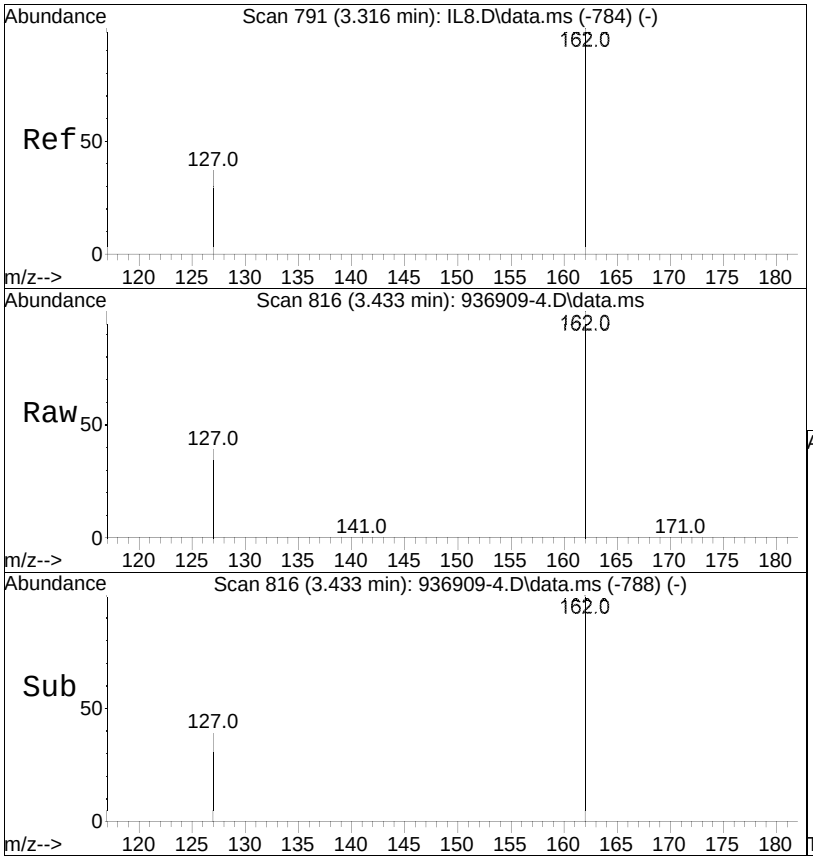


#12
2-Methylnaphthalene
Concen: 1466.16 ng/ml
RT: 3.162 min Scan# 727
Delta R.T. 0.006 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:142 Resp: 428480

Ion	Ratio	Lower	Upper
142	100		
141	91.5	74.4	111.6

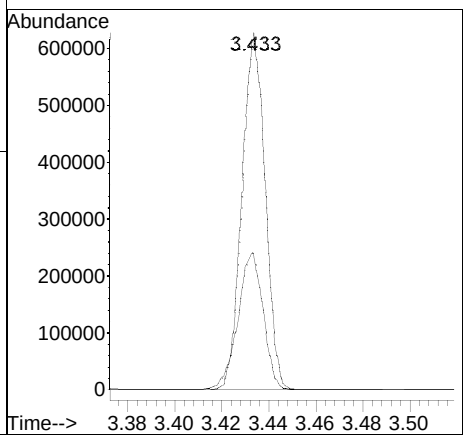


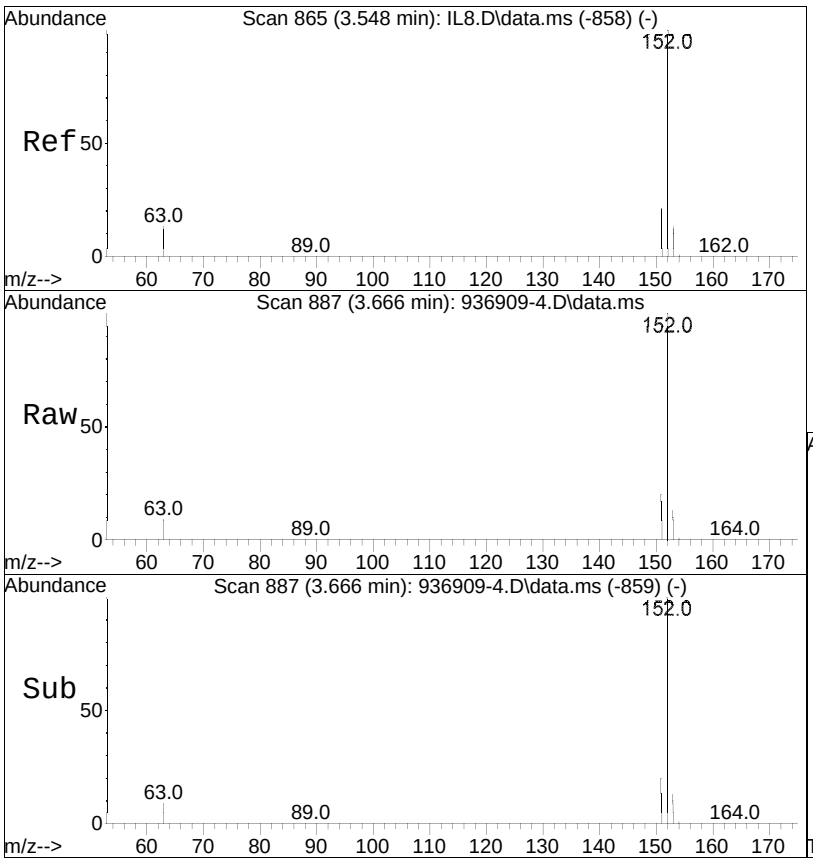


#15
2-Chloronaphthalene
Concen: 1294.89 ng/ml
RT: 3.433 min Scan# 816
Delta R.T. 0.006 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:162 Resp: 420912

Ion	Ratio	Lower	Upper
162	100		
127	42.3	29.2	43.8

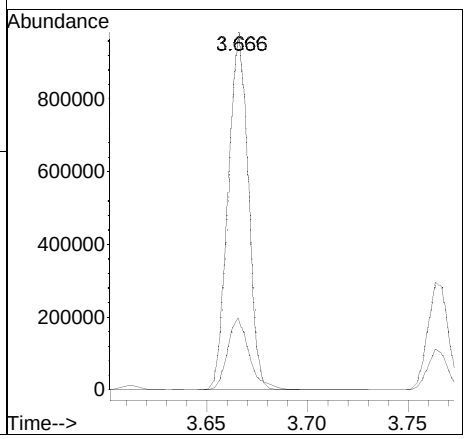


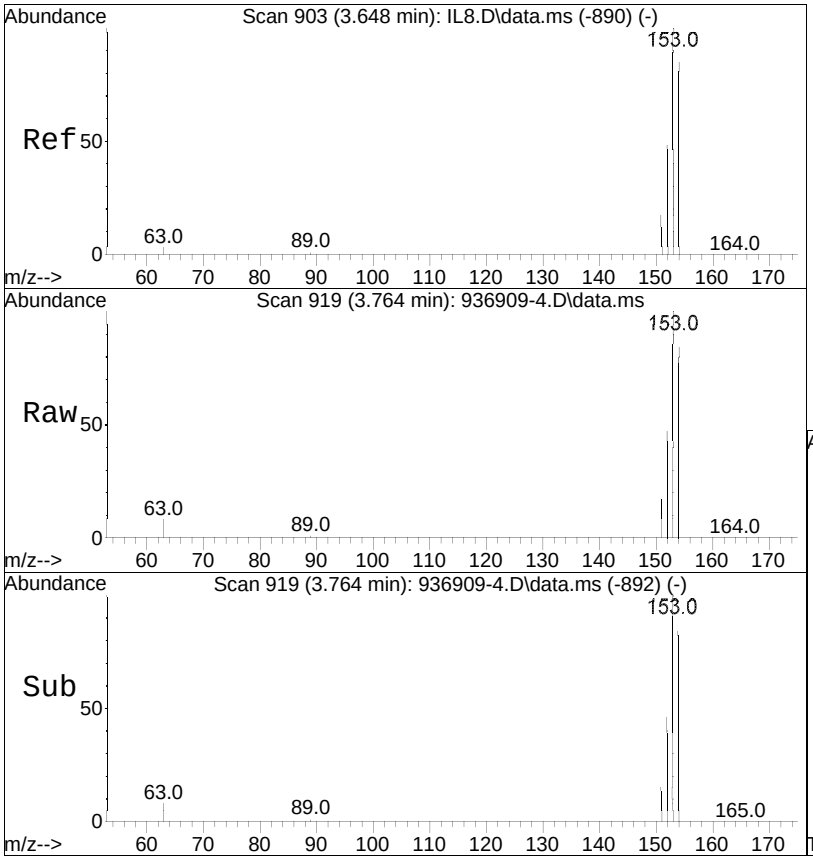


#17
Acenaphthylene
Concen: 1393.26 ng/ml
RT: 3.666 min Scan# 887
Delta R.T. 0.006 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:152 Resp: 673760

Ion	Ratio	Lower	Upper
152	100		
151	22.2	16.4	24.6

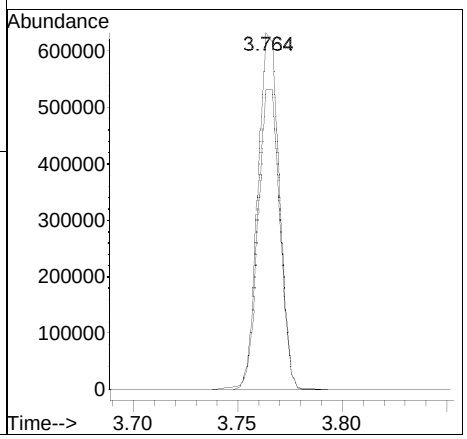


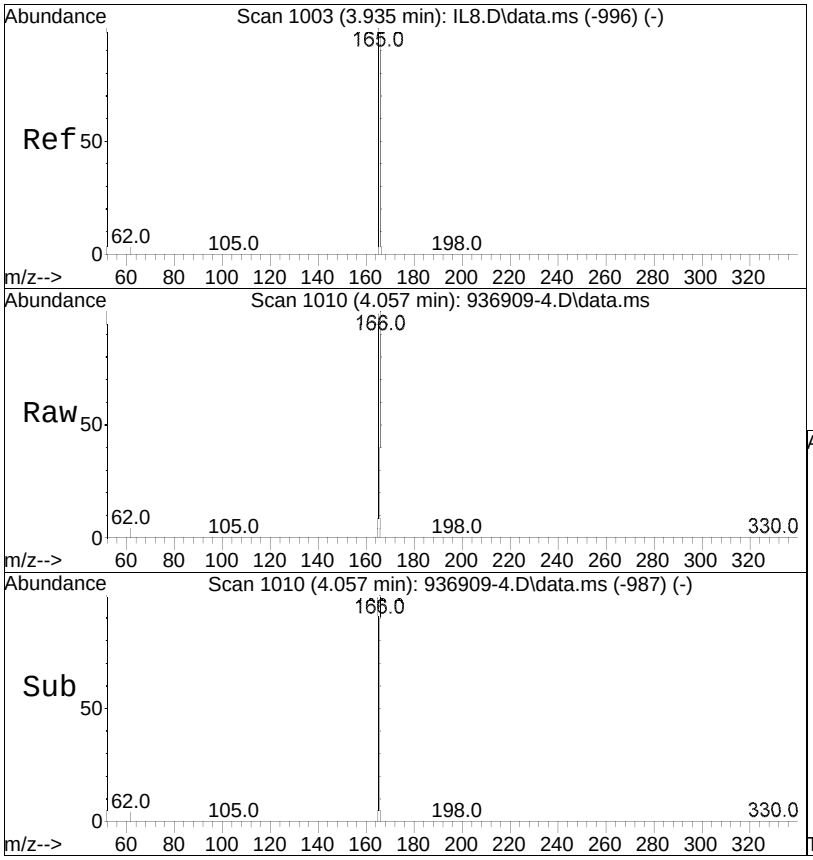


#19
Acenaphthene
Concen: 1453.59 ng/ml
RT: 3.764 min Scan# 919
Delta R.T. 0.003 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:153 Resp: 444934

Ion	Ratio	Lower	Upper
153	100		
154	86.1	68.4	102.6

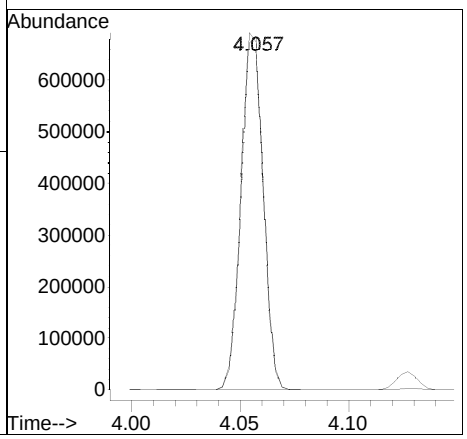


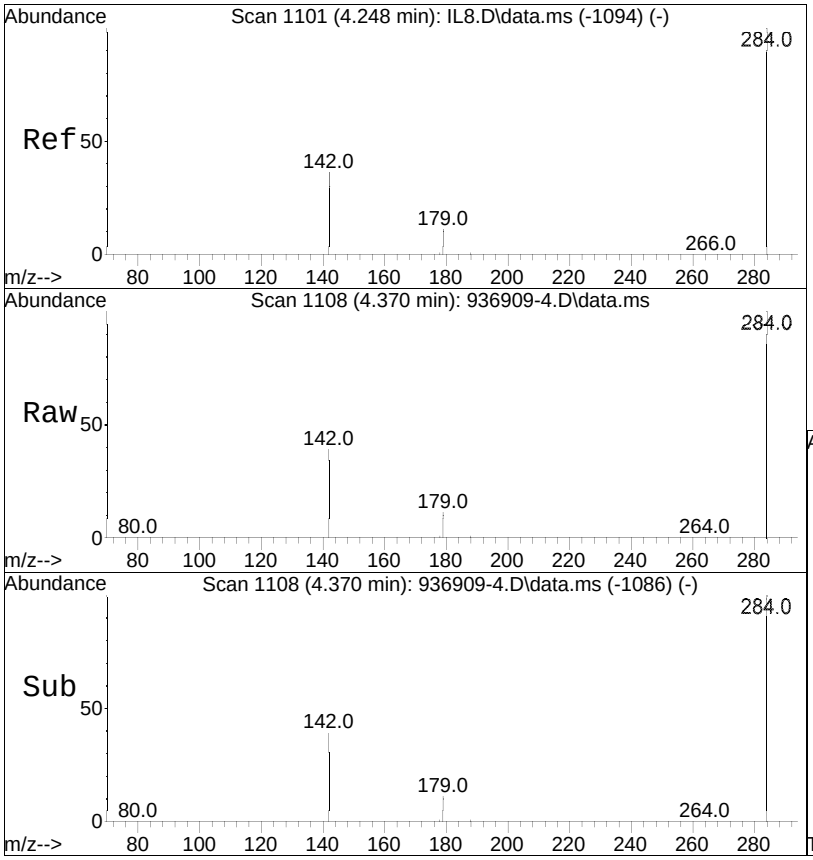


#21
Fluorene
Concen: 1387.36 ng/ml
RT: 4.057 min Scan# 1010
Delta R.T. 0.006 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:166 Resp: 485988

Ion	Ratio	Lower	Upper
166	100		
165	101.1	81.7	122.5

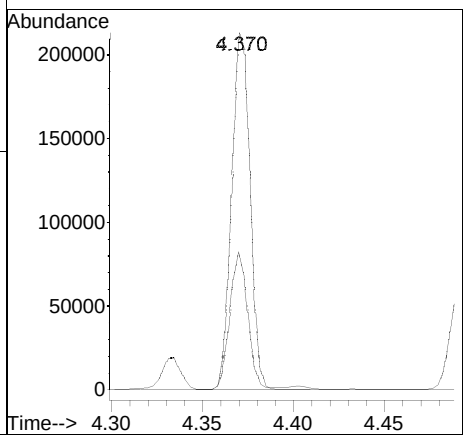


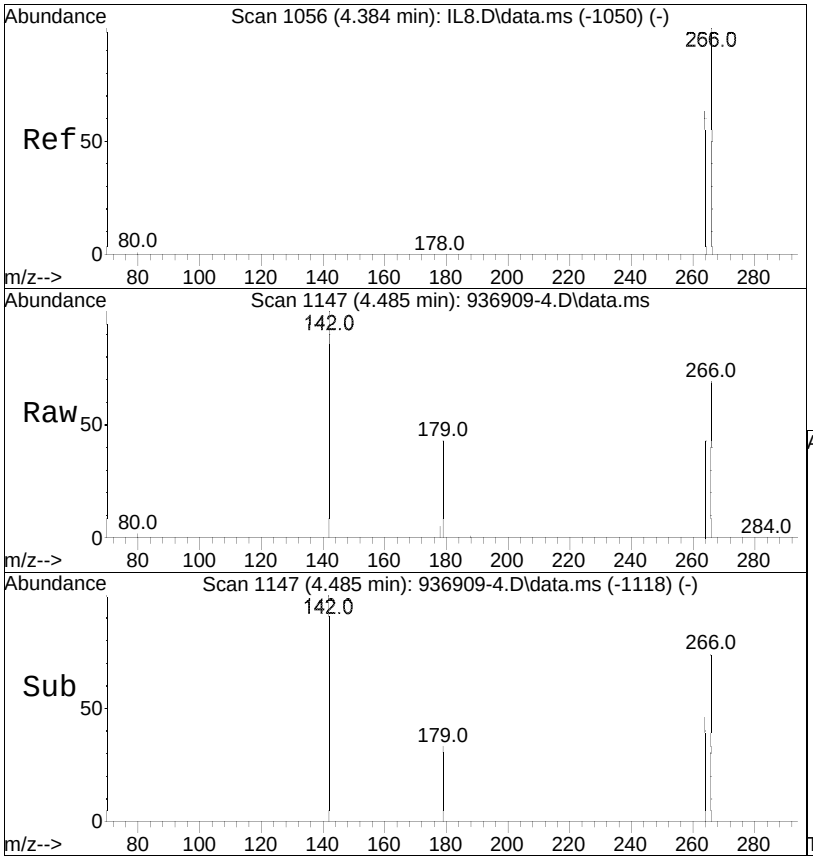


#25
Hexachlorobenzene
Concen: 1217.98 ng/ml
RT: 4.370 min Scan# 1108
Delta R.T. 0.003 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:284 Resp: 148855

Ion	Ratio	Lower	Upper
284	100		
142	38.1	28.2	42.2

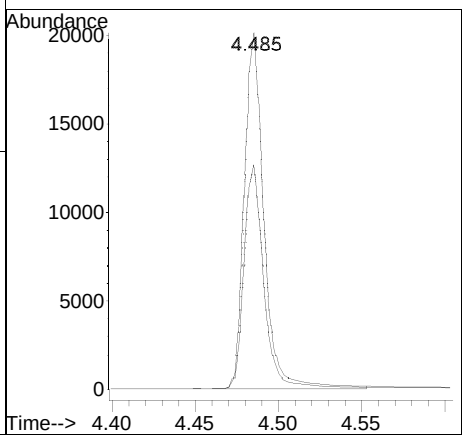


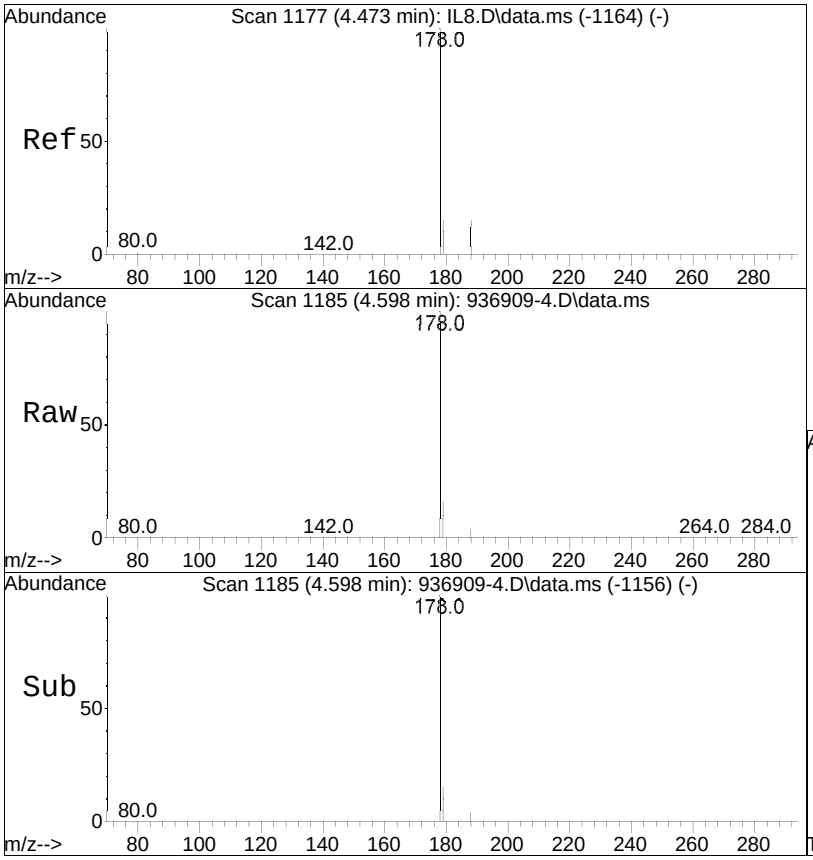


#26
Pentachlorophenol
Concen: 264.62 ng/ml
RT: 4.485 min Scan# 1147
Delta R.T. 0.005 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:266 Resp: 16273

Ion	Ratio	Lower	Upper
266	100		
264	63.6	50.6	76.0

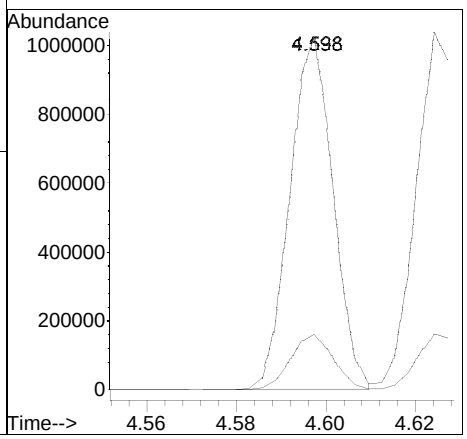


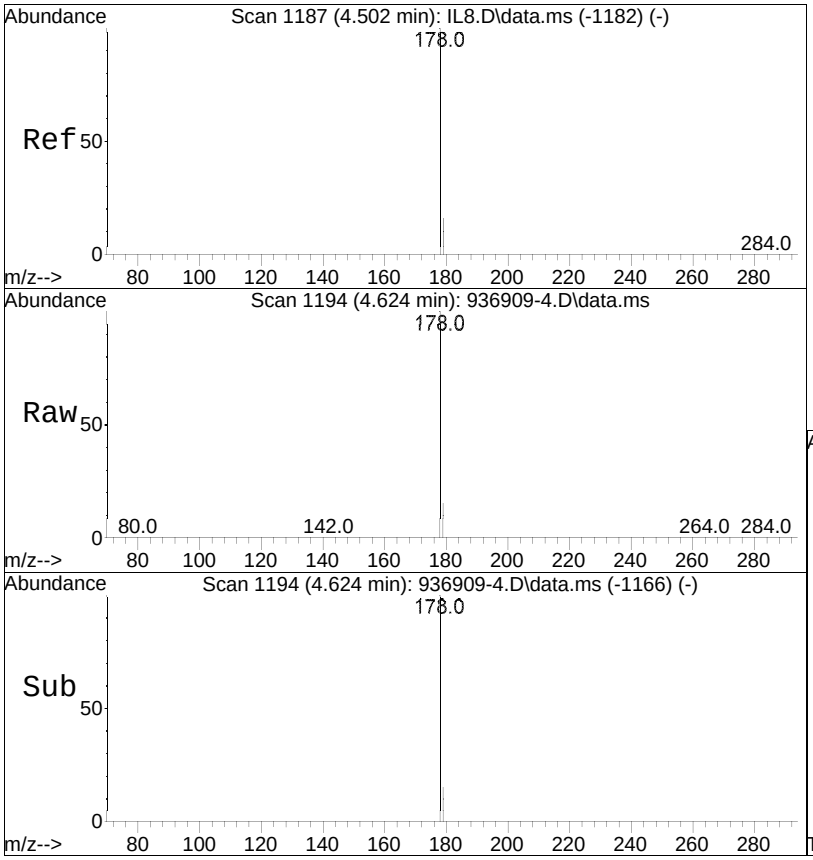


#27
Phenanthrene
Concen: 1339.44 ng/ml
RT: 4.598 min Scan# 1185
Delta R.T. 0.005 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:178 Resp: 684082

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

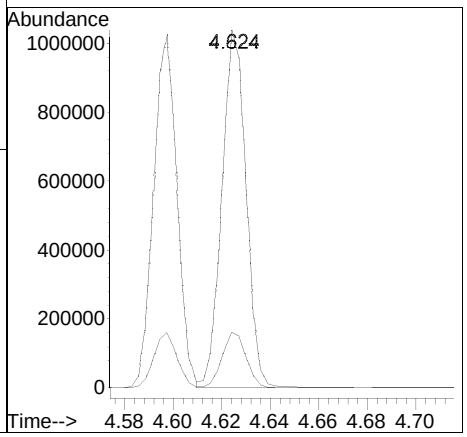


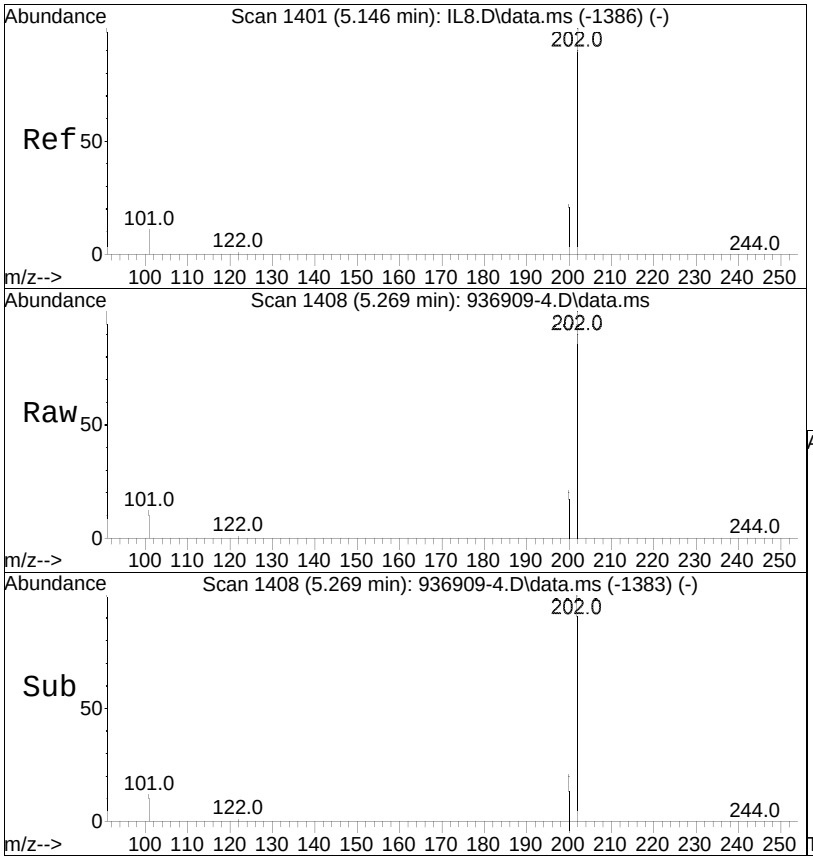


#28
Anthracene
Concen: 1449.97 ng/ml
RT: 4.624 min Scan# 1194
Delta R.T. 0.003 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:178 Resp: 715354

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.4	18.6

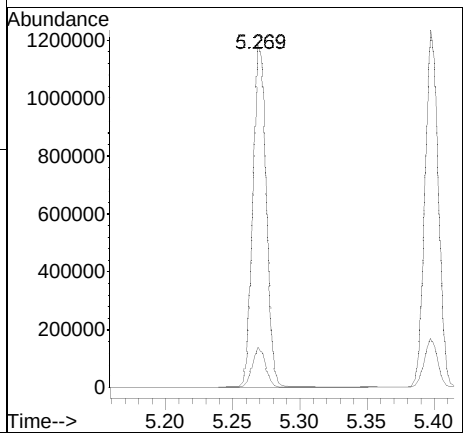


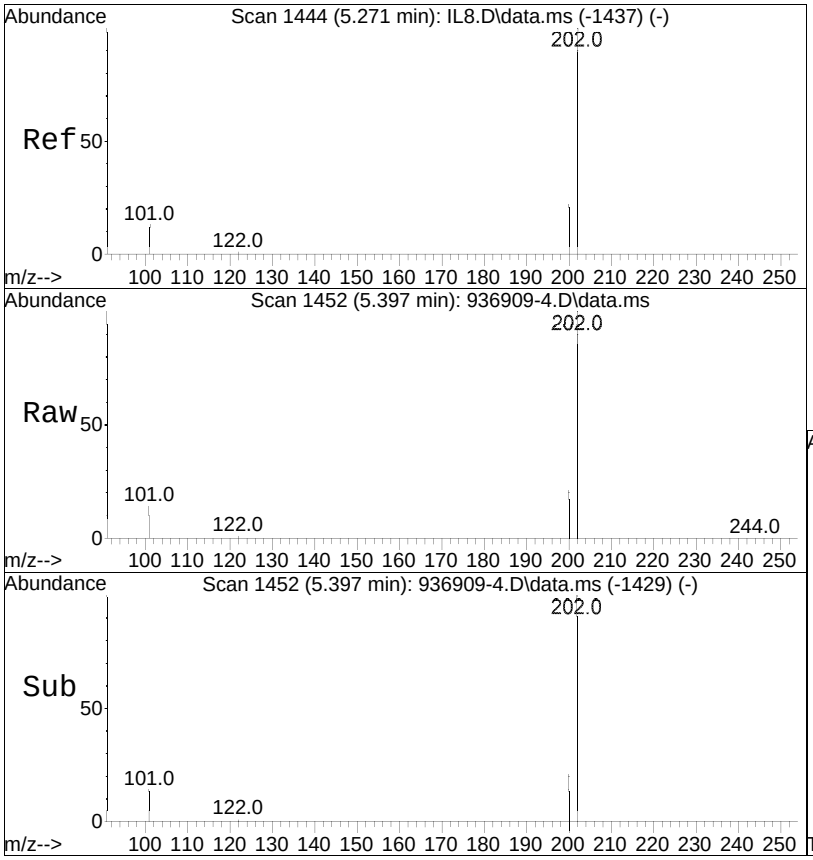


#29
Fluoranthene
Concen: 1407.40 ng/ml
RT: 5.269 min Scan# 1408
Delta R.T. -0.006 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:202 Resp: 833513

Ion	Ratio	Lower	Upper
202	100		
101	11.6	8.7	13.1

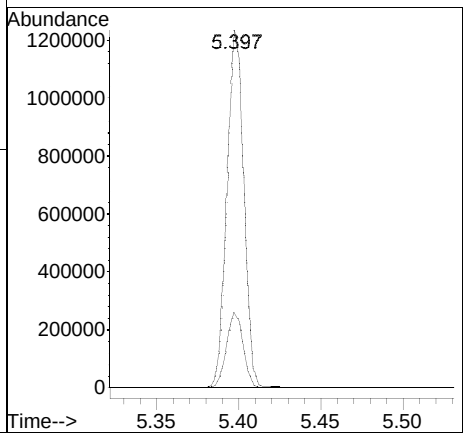


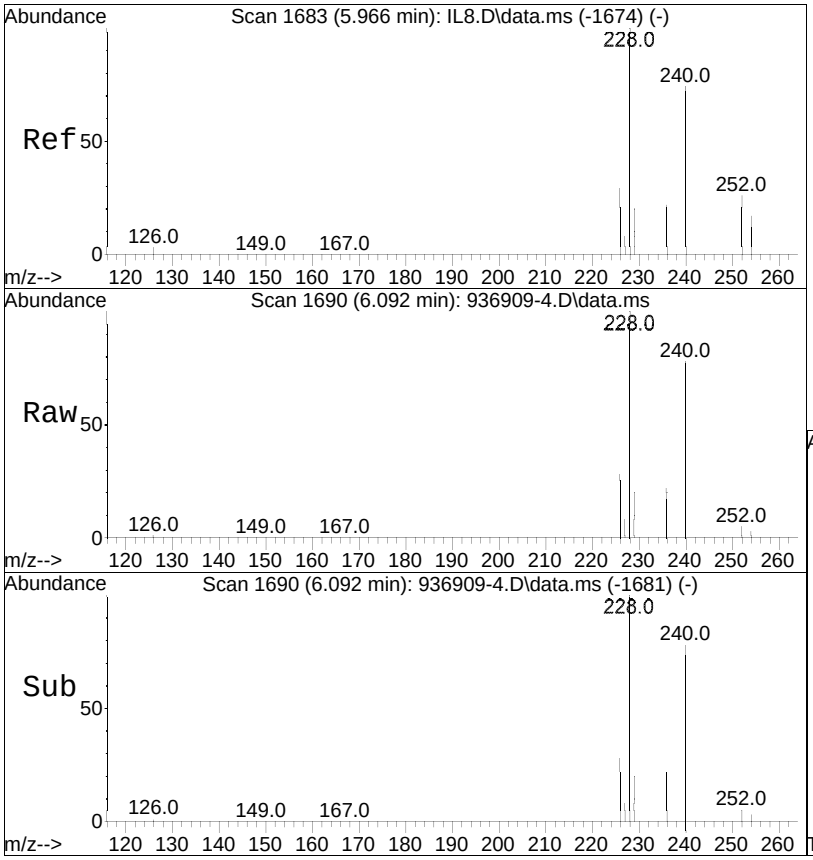


#30
Pyrene
Concen: 1392.69 ng/ml
RT: 5.397 min Scan# 1452
Delta R.T. -0.012 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:202 Resp: 862403

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

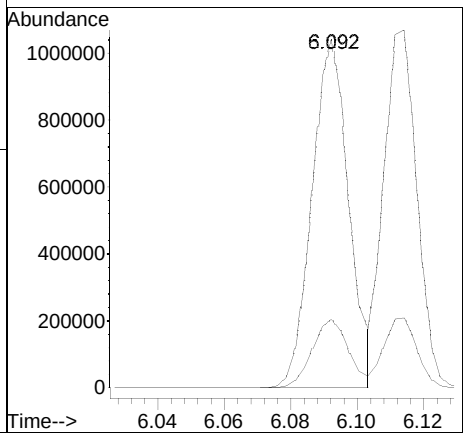


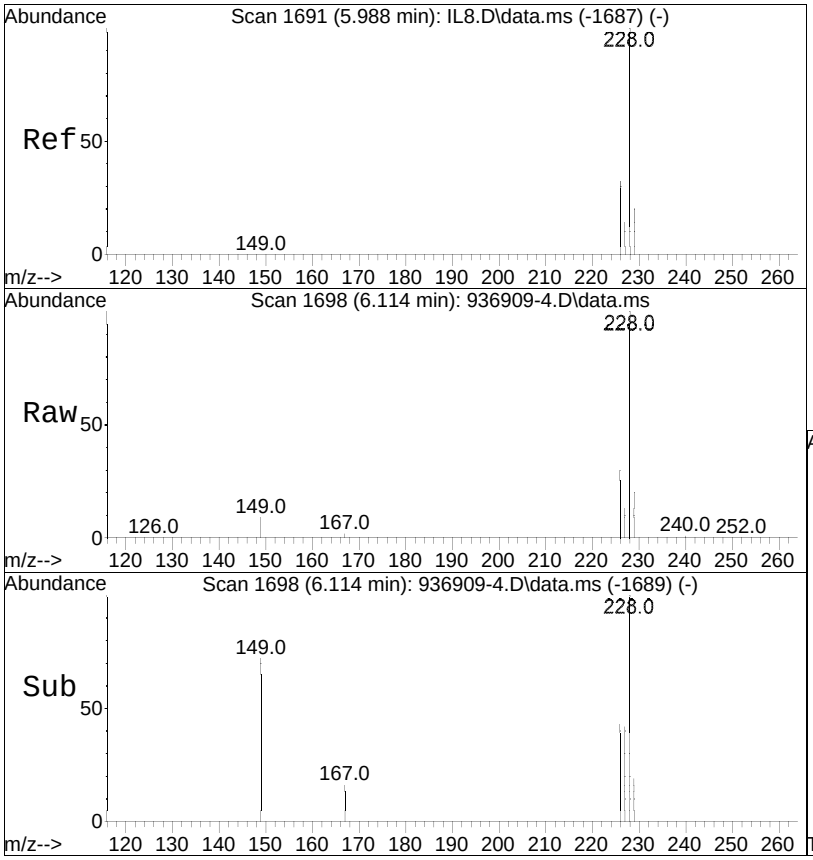


#33
Benzo[a]anthracene
Concen: 1423.16 ng/ml
RT: 6.092 min Scan# 1690
Delta R.T. -0.055 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:228 Resp: 797204

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

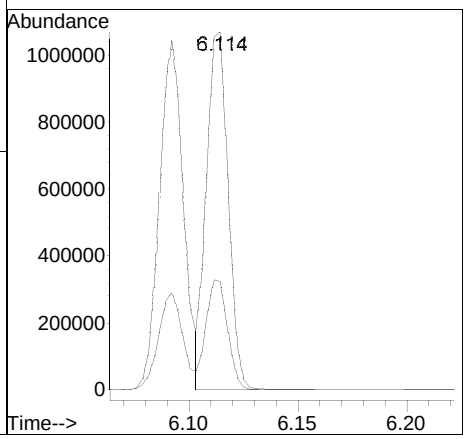


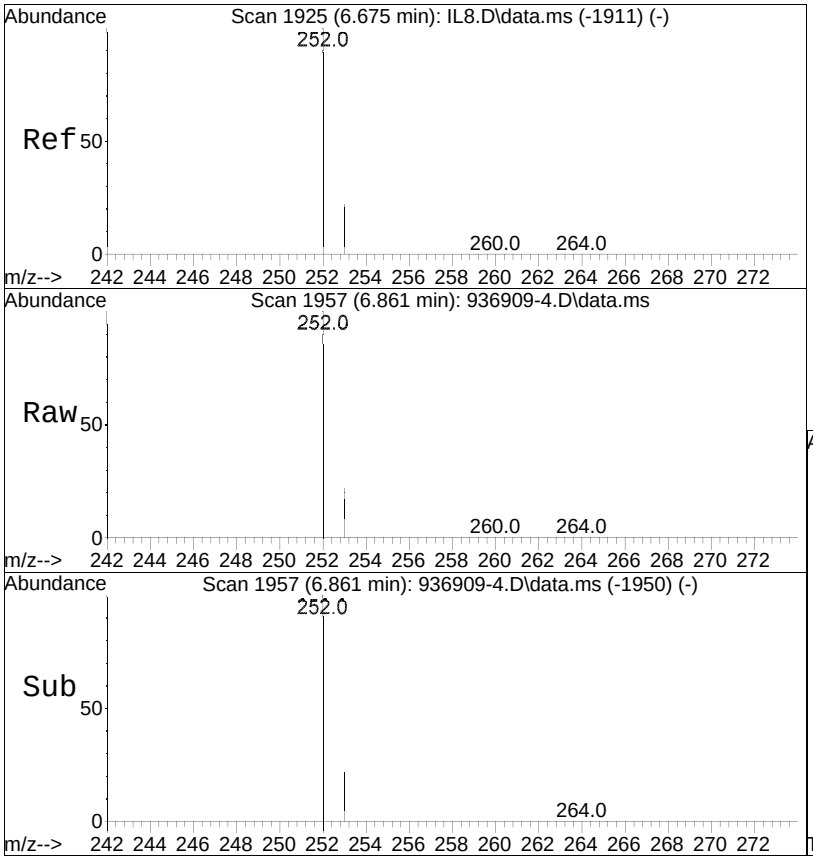


#35
Chrysene
Concen: 1472.96 ng/ml
RT: 6.114 min Scan# 1698
Delta R.T. -0.055 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:228 Resp: 736955

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

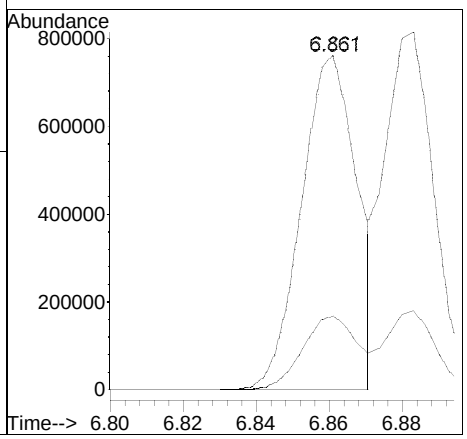


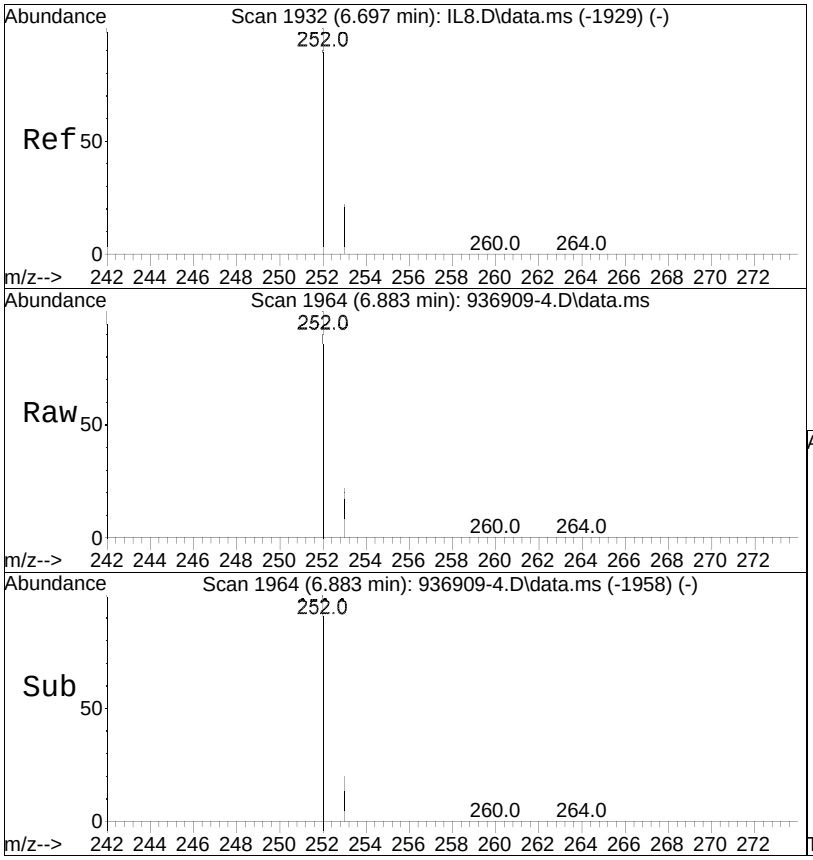


#38
Benzo[b]fluoranthene
Concen: 1458.57 ng/ml
RT: 6.861 min Scan# 1957
Delta R.T. -0.056 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:252 Resp: 806344

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

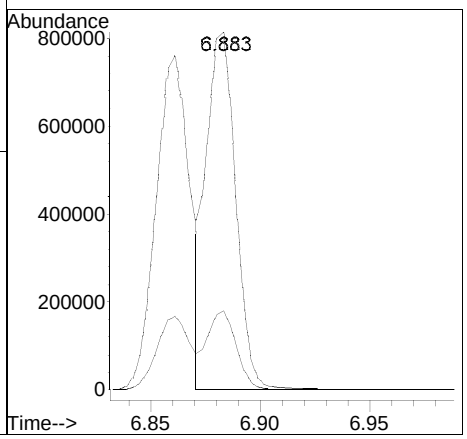


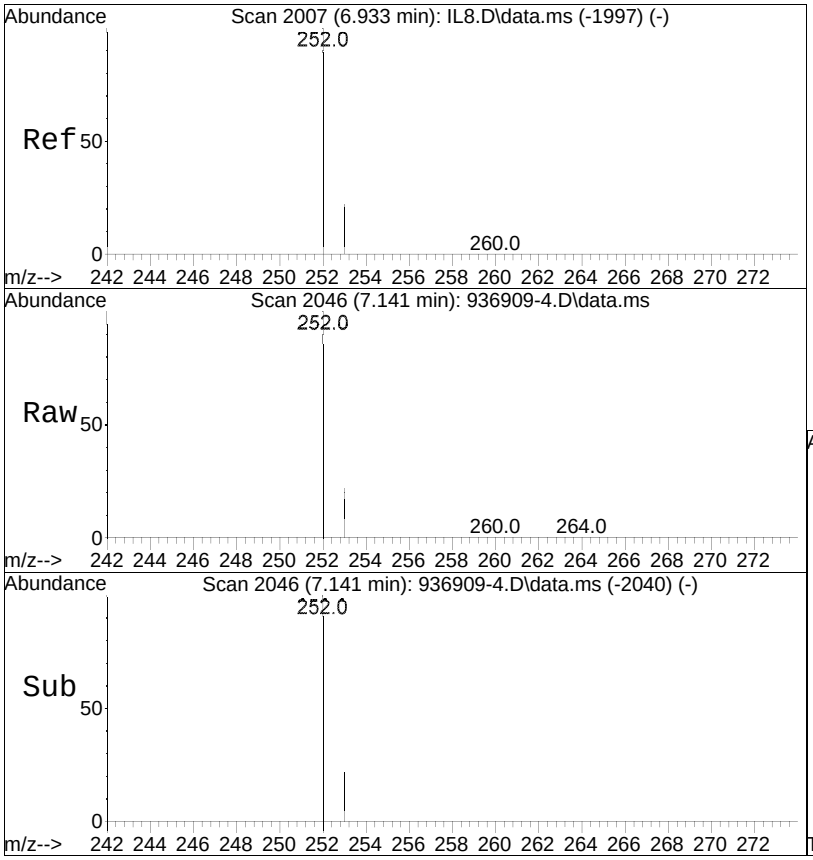


#39
Benzo[k]fluoranthene
Concen: 1478.57 ng/ml
RT: 6.883 min Scan# 1964
Delta R.T. -0.060 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:252 Resp: 762388

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5

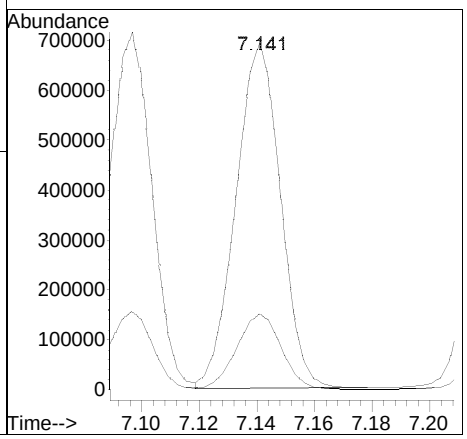


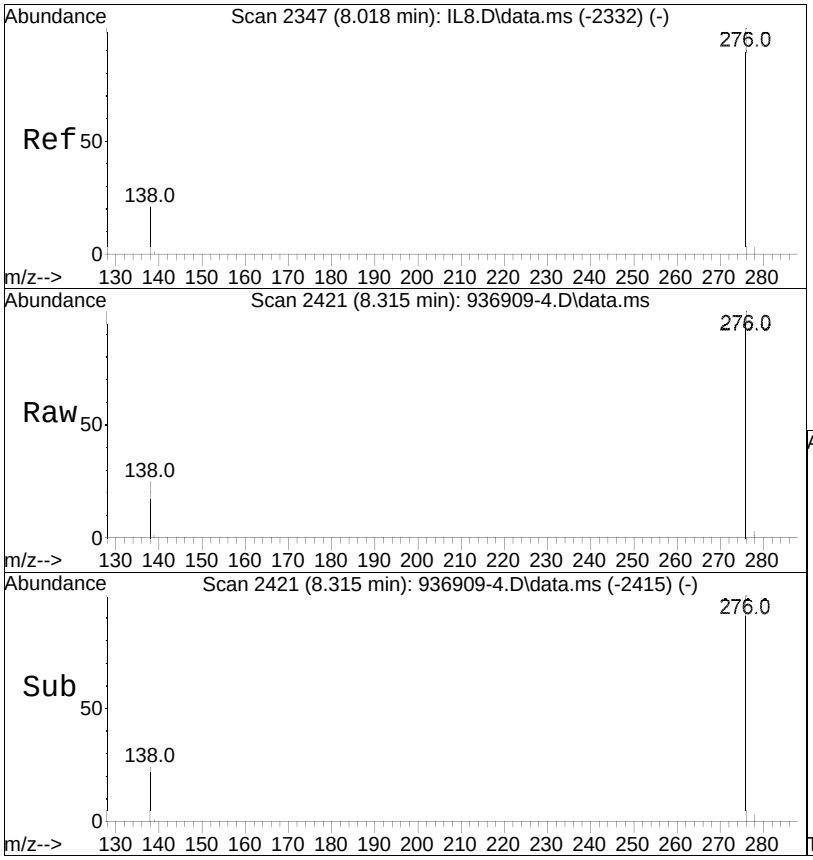


#40
Benzo[a]pyrene
Concen: 1619.05 ng/ml
RT: 7.141 min Scan# 2046
Delta R.T. -0.060 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:252 Resp: 742209

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

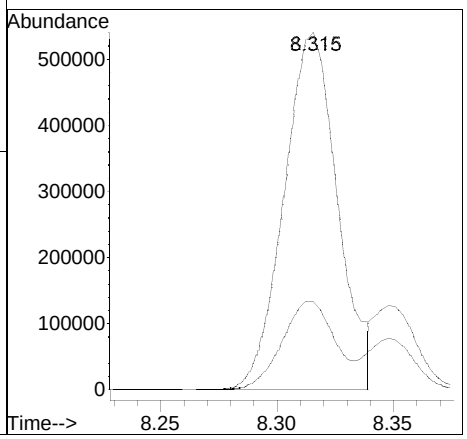


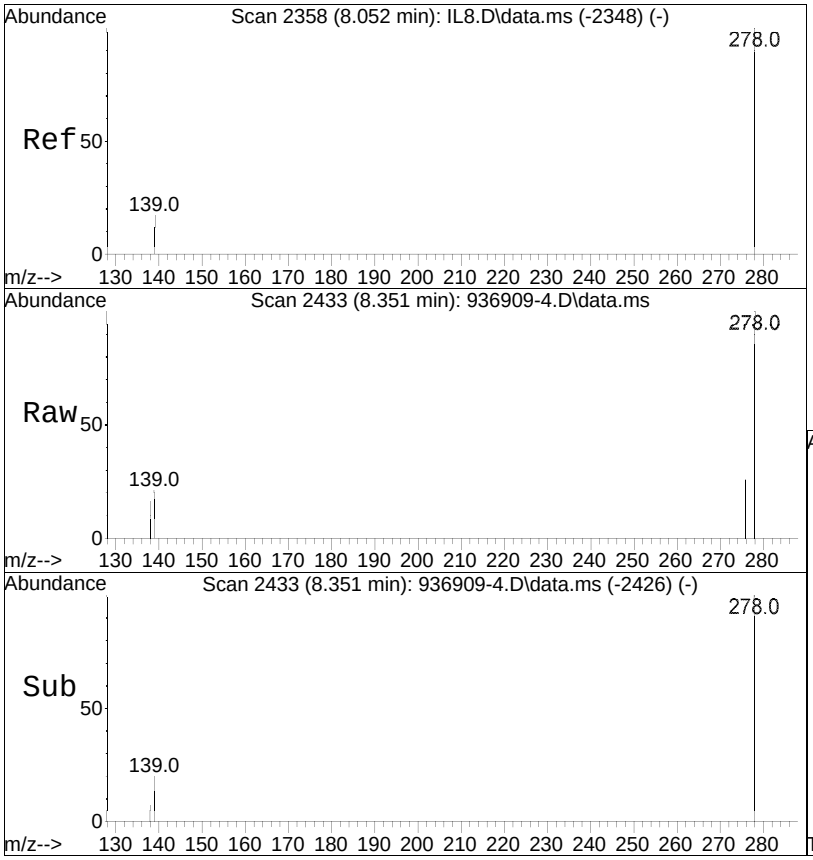


#41
Indeno[1,2,3-cd]pyrene
Concen: 1881.07 ng/ml
RT: 8.315 min Scan# 2421
Delta R.T. -0.062 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:276 Resp: 858988

Ion	Ratio	Lower	Upper
276	100		
138	24.6	16.2	24.4#

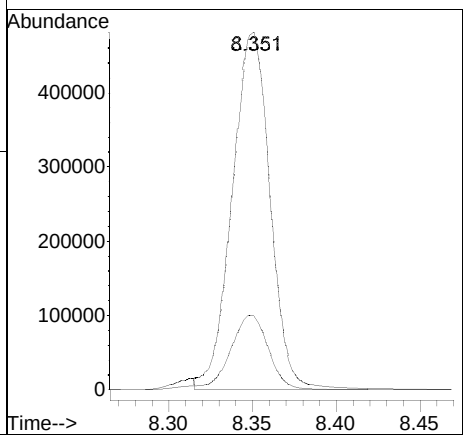


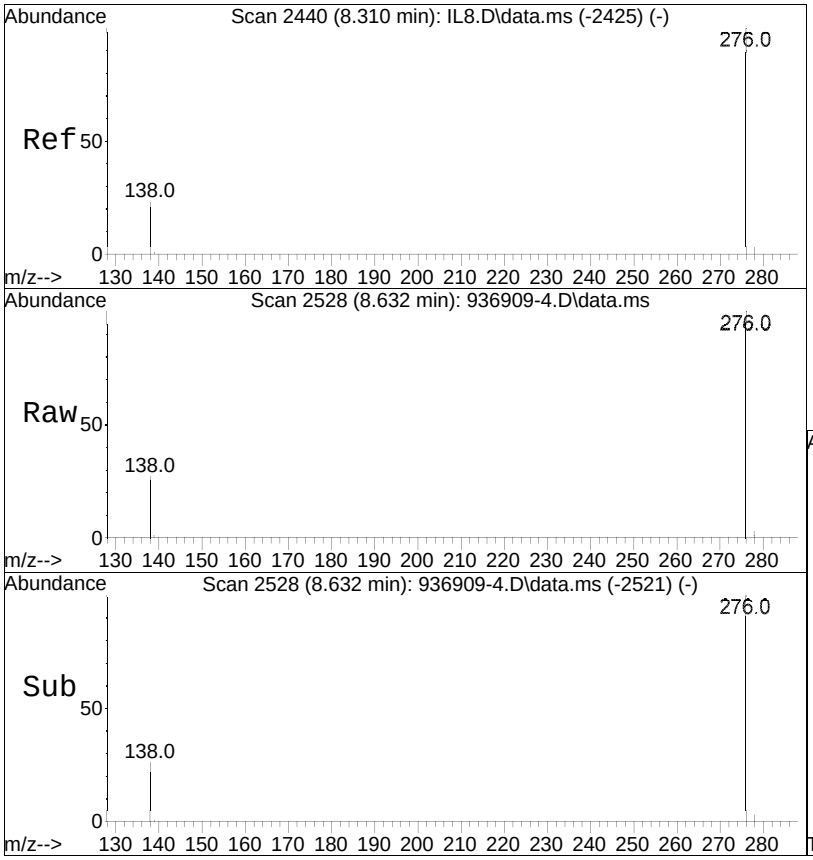


#42
Dibenzo[a,h]anthracene
Concen: 1778.51 ng/ml M6
RT: 8.351 min Scan# 2433
Delta R.T. -0.059 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:278 Resp: 752870

Ion	Ratio	Lower	Upper
278	100		
139	21.2	14.5	21.7

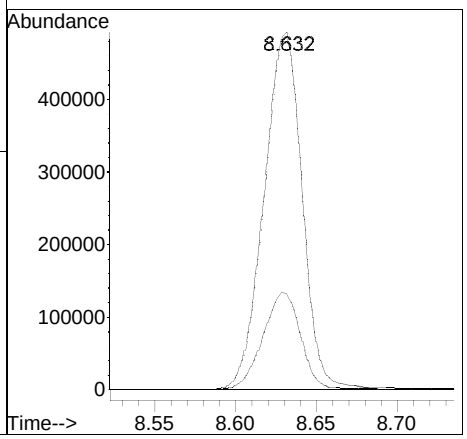




#43
Benzo[g,h,i]perylene
Concen: 1730.67 ng/ml
RT: 8.632 min Scan# 2528
Delta R.T. -0.059 min
Lab File: 936909-4.D
Acq: 20 Jun 2024 09:42 pm

Tgt Ion:276 Resp: 795390

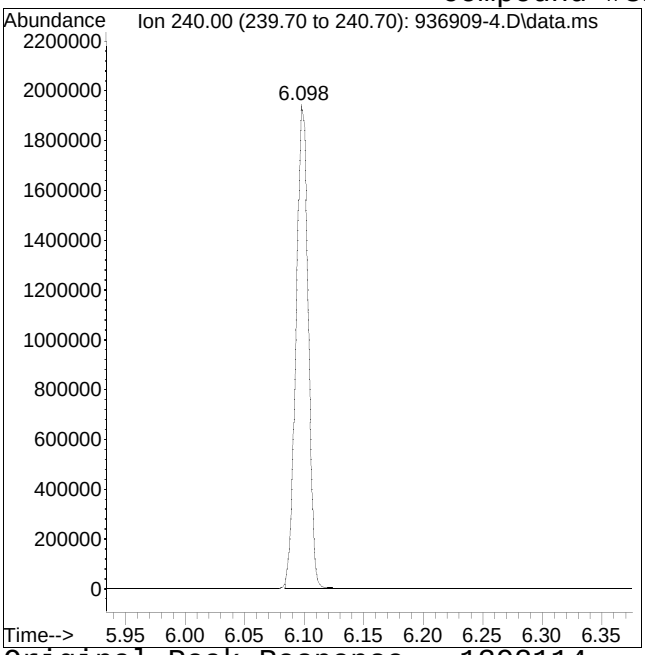
Ion	Ratio	Lower	Upper
276	100		
138	27.2	18.5	27.7



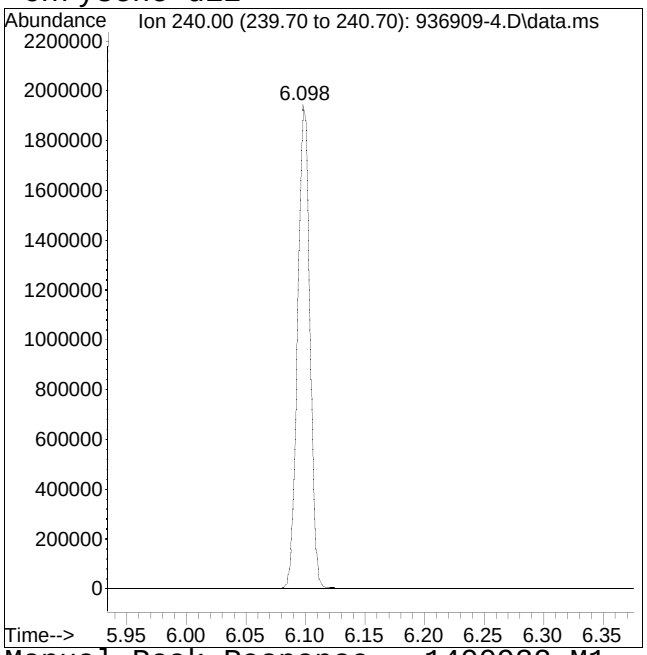
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-4.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 9:42 pm Instrument : SV125
Sample : WG1936909-4,32,,rp Quant Date : 6/20/2024 9:56 pm

Compound #32: Chrysene-d12



Original Peak Response = 1392114



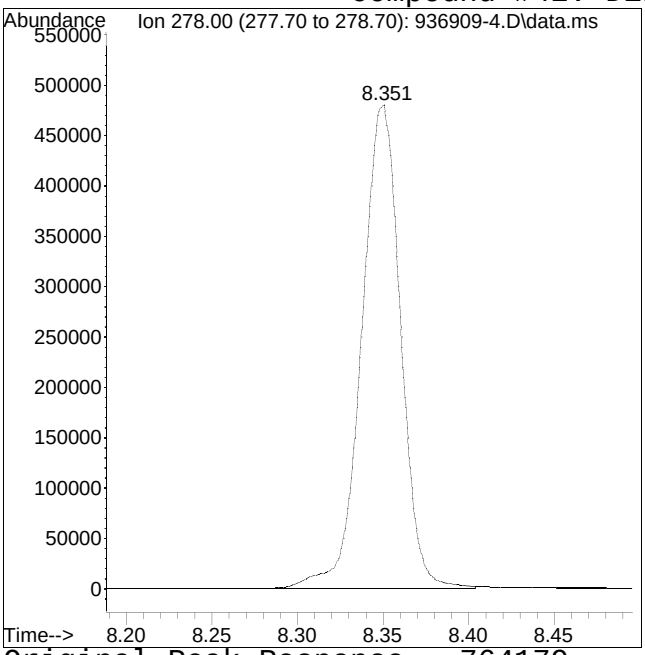
Manual Peak Response = 1400932 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

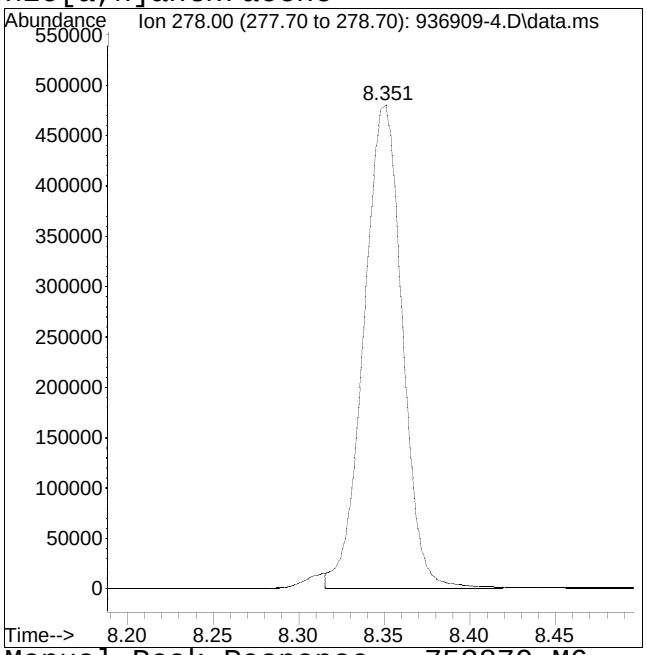
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-4.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 9:42 pm Instrument : SV125
Sample : WG1936909-4,32,,rp Quant Date : 6/20/2024 9:56 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 764179



Manual Peak Response = 752870 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-5.D
Acq On : 20 Jun 2024 09:58 pm
Operator : SV125:jjw
Sample : WG1936909-5,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jun 21 09:13:01 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.106	152	427007	4000.000	ng/ml	0.01
Standard Area 1 = 473486			Recovery = 90.18%			
9) Naphthalene-d8	2.768	136	1645882	4000.000	ng/ml	0.00
Standard Area 1 = 1820585			Recovery = 90.40%			
18) Acenaphthene-d10	3.748	164	909134	4000.000	ng/ml	0.00
Standard Area 1 = 1037750			Recovery = 87.61%			
23) Phenanthrene-d10	4.586	188	1791616	4000.000	ng/ml	0.00
Standard Area 1 = 2113663			Recovery = 84.76%			
32) Chrysene-d12	6.098	240	1405021M1	4000.000	ng/ml	-0.05
Standard Area 1 = 1598607			Recovery = 87.89%			
37) Perylene-d12	7.200	264	1559390	4000.000	ng/ml	-0.06
Standard Area 1 = 1571336			Recovery = 99.24%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.528	112	29344	232.353	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.65%#			
4) Phenol-d6	1.926	99	50140	342.929	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 6.86%#			
8) Nitrobenzene-d5	2.385	82	112295	948.114	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 37.92%			
14) 2-Fluorobiphenyl	3.372	172	272830	721.899	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 28.88%#			
22) 2,4,6-Tribromophenol	4.194	330	17686	348.741	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 6.97%#			
31) 4-Terphenyl-d14	5.493	244	261568	714.487	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 28.58%#			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	1.972	93	217067	1665.965	ng/ml	95
7) Hexachloroethane	2.362	117	76689	1324.185	ng/ml	98
10) Naphthalene	2.780	128	653152	1421.436	ng/ml#	100
11) Hexachlorobutadiene	2.853	225	98598	1126.040	ng/ml	100
12) 2-Methylnaphthalene	3.162	142	452759	1538.187	ng/ml	99
15) 2-Chloronaphthalene	3.433	162	449659	1373.458	ng/ml	90
17) Acenaphthylene	3.666	152	732959	1504.865	ng/ml	99
19) Acenaphthene	3.767	153	487229	1567.522	ng/ml	100
21) Fluorene	4.054	166	548446	1541.811	ng/ml	99
25) Hexachlorobenzene	4.370	284	170630	1376.324	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-5.D
Acq On : 20 Jun 2024 09:58 pm
Operator : SV125:jjw
Sample : WG1936909-5,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jun 21 09:13:01 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\240620aRVT\ccv0620.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	4.485	266	10496	170.368	ng/ml	97
27) Phenanthrene	4.598	178	787534	1520.102	ng/ml	100
28) Anthracene	4.624	178	808641	1615.773	ng/ml	100
29) Fluoranthene	5.269	202	933978	1554.644	ng/ml	98
30) Pyrene	5.397	202	965831	1537.569	ng/ml	98
33) Benzo[a]anthracene	6.090	228	890263	1585.622	ng/ml	100
35) Chrysene	6.111	228	813610	1621.438	ng/ml	99
38) Benzo[b]fluoranthene	6.858	252	874781	1611.549	ng/ml	100
39) Benzo[k]fluoranthene	6.880	252	847020	1673.003	ng/ml	100
40) Benzo[a]pyrene	7.140	252	811860	1803.650	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.315	276	912544	2035.211	ng/ml#	89
42) Dibenzo[a,h]anthracene	8.348	278	817235M6	1966.162	ng/ml	
43) Benzo[g,h,i]perylene	8.629	276	861870	1909.914	ng/ml	92

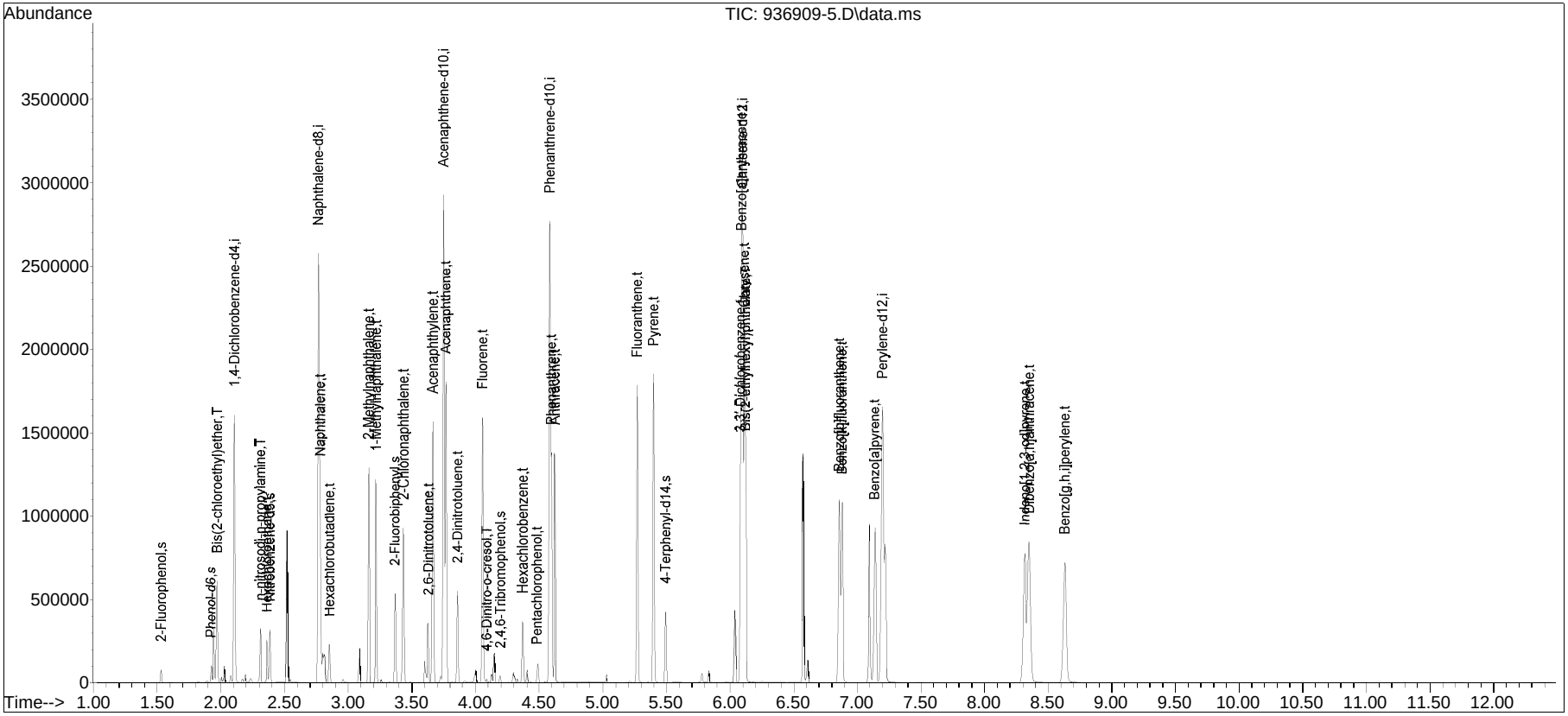
(#) = qualifier out of range (m) = manual integration (+) = signals summed

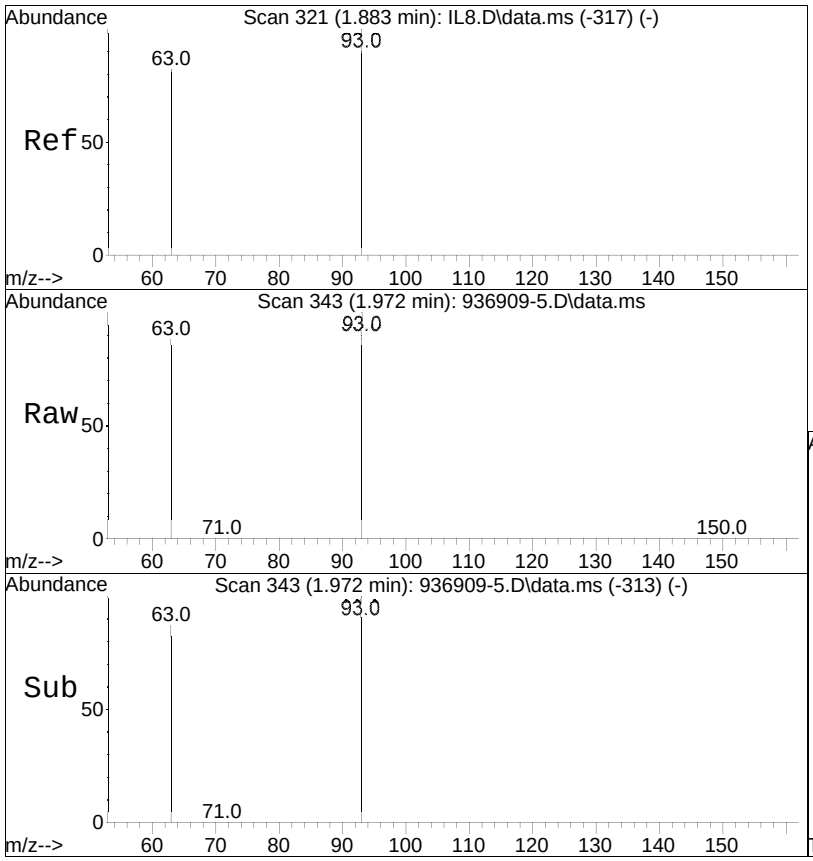
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\240620aRVT\
Data File : 936909-5.D
Acq On : 20 Jun 2024 09:58 pm
Operator : SV125:jjw
Sample : WG1936909-5,32,,rp
Misc : WG1937057,WG1936909,ical20885
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jun 21 09:13:01 2024
Quant Method : I:\8270sim\sv125\240620aRVT\SIM-RVT_240223_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 20 11:24:28 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0620.D•

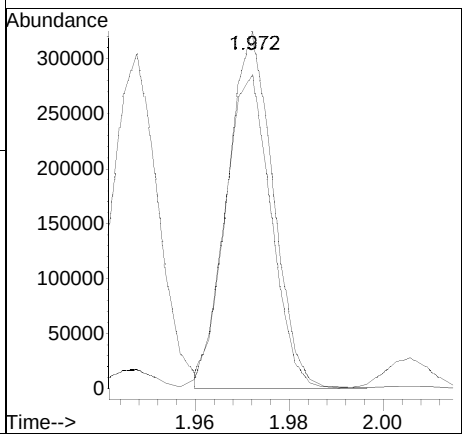


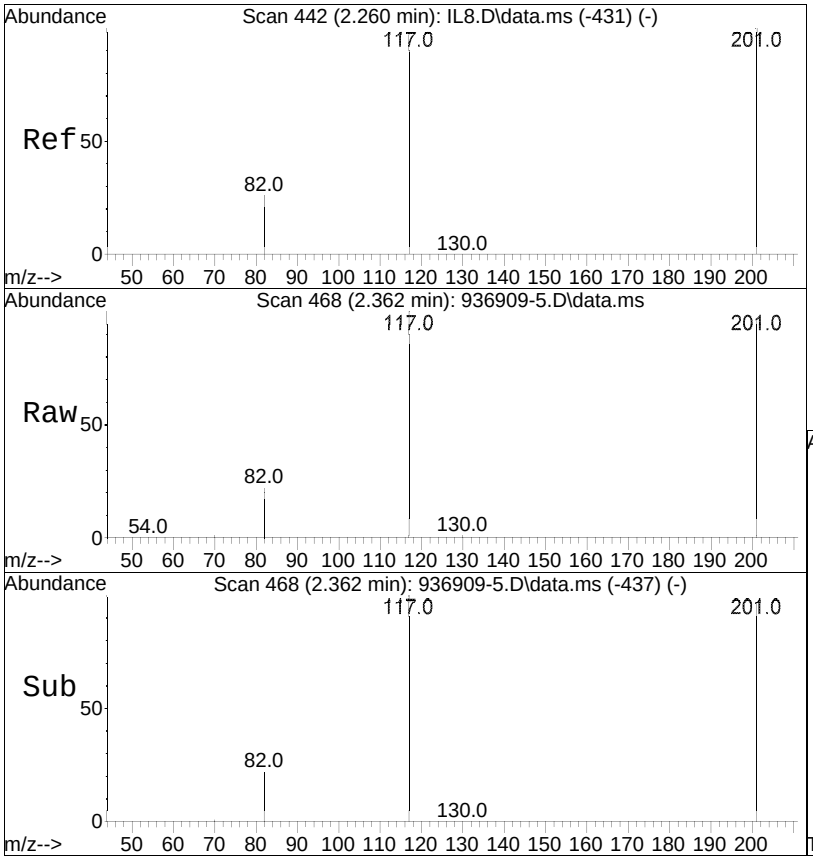


#5
Bis(2-chloroethyl)ether
Concen: 1665.97 ng/ml
RT: 1.972 min Scan# 343
Delta R.T. 0.012 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion: 93 Resp: 217067

Ion	Ratio	Lower	Upper
93	100		
63	89.6	67.7	101.5

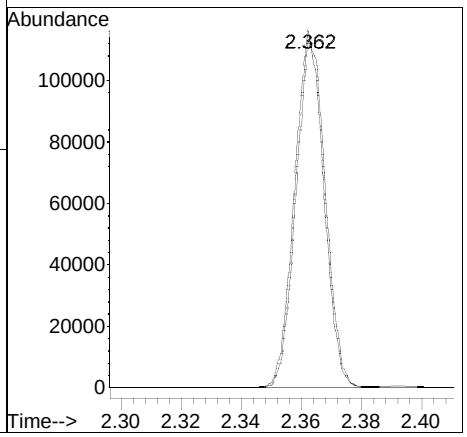


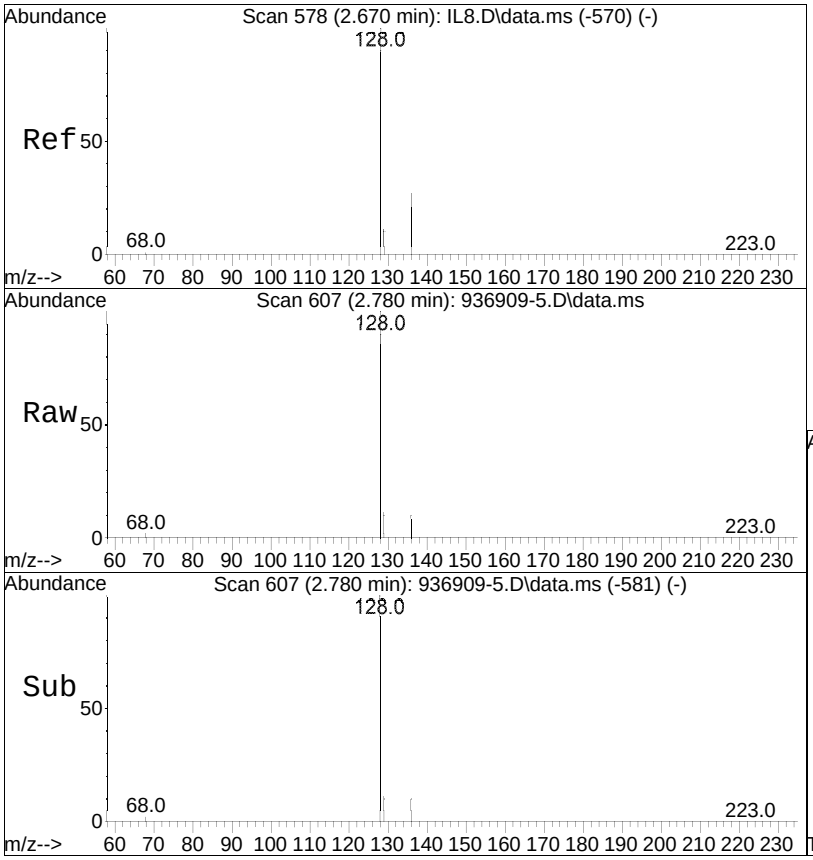


#7
Hexachloroethane
Concen: 1324.19 ng/ml
RT: 2.362 min Scan# 468
Delta R.T. 0.008 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:117 Resp: 76689

Ion	Ratio	Lower	Upper
117	100		
201	99.2	80.8	121.2

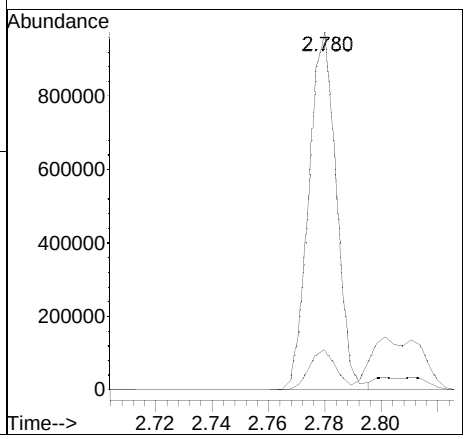


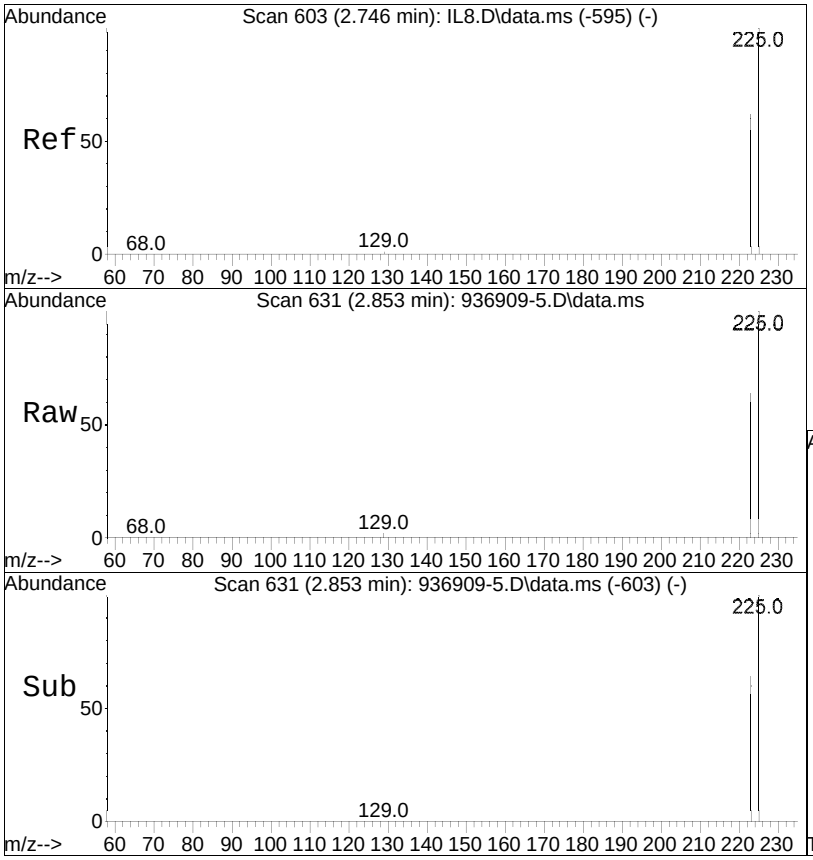


#10
Naphthalene
Concen: 1421.44 ng/ml
RT: 2.780 min Scan# 607
Delta R.T. 0.006 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:128 Resp: 653152

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

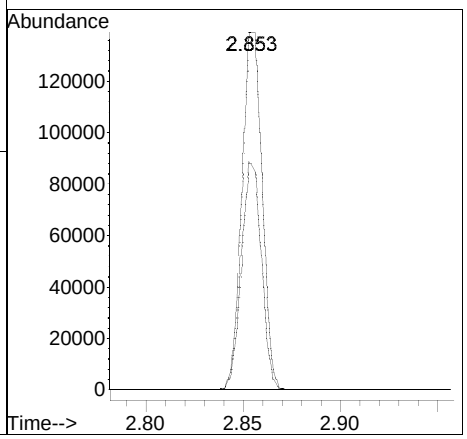


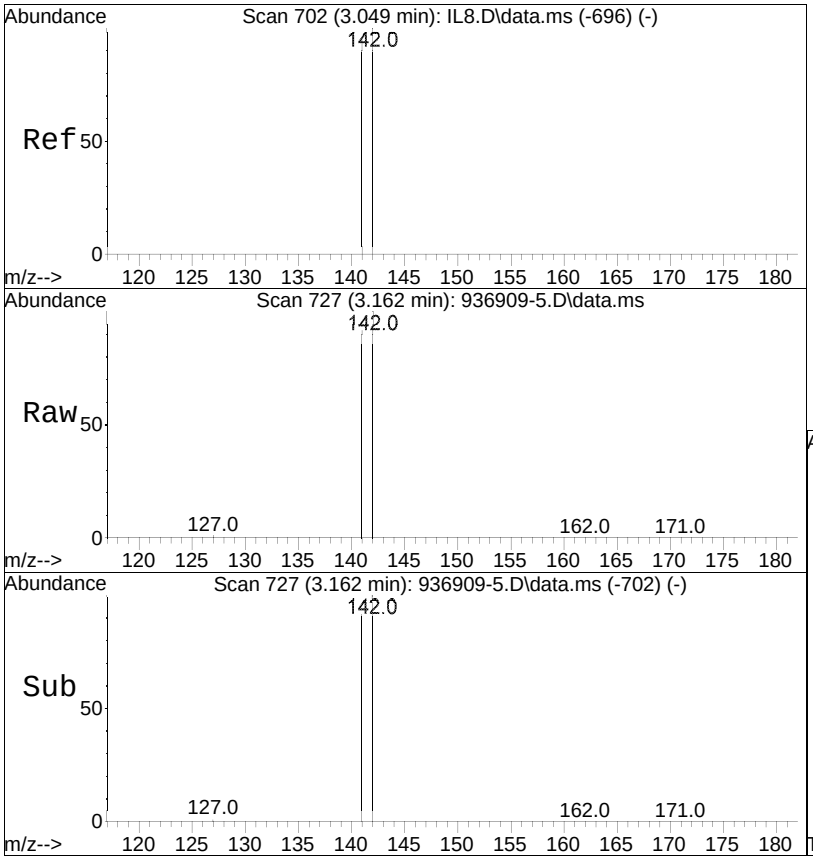


#11
Hexachlorobutadiene
Concen: 1126.04 ng/ml
RT: 2.853 min Scan# 631
Delta R.T. 0.006 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:225 Resp: 98598

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4

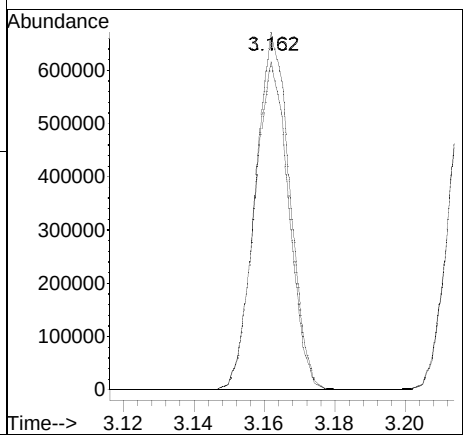


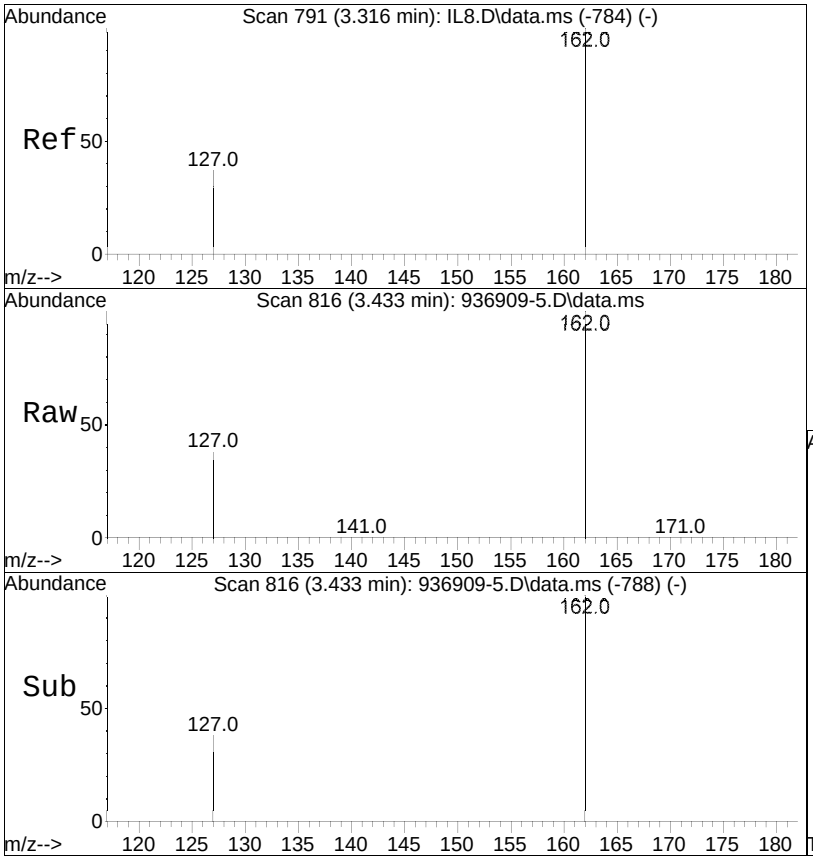


#12
2-Methylnaphthalene
Concen: 1538.19 ng/ml
RT: 3.162 min Scan# 727
Delta R.T. 0.006 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:142 Resp: 452759

Ion	Ratio	Lower	Upper
142	100		
141	91.6	74.4	111.6

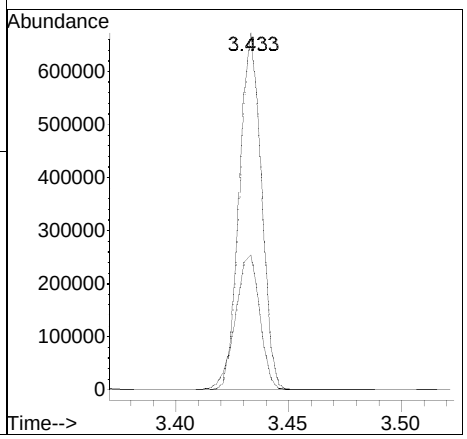


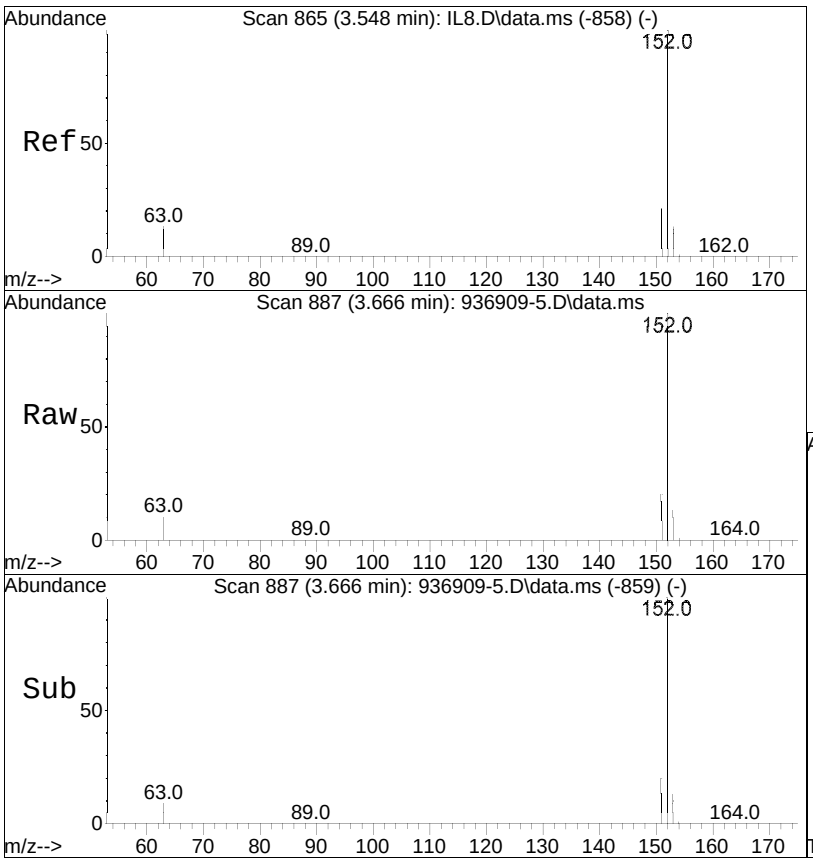


#15
2-Chloronaphthalene
Concen: 1373.46 ng/ml
RT: 3.433 min Scan# 816
Delta R.T. 0.006 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:162 Resp: 449659

Ion	Ratio	Lower	Upper
162	100		
127	42.3	29.2	43.8

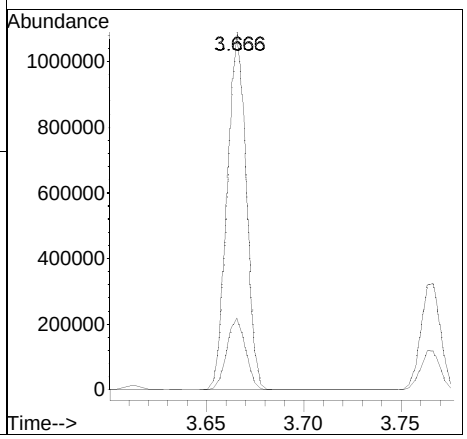


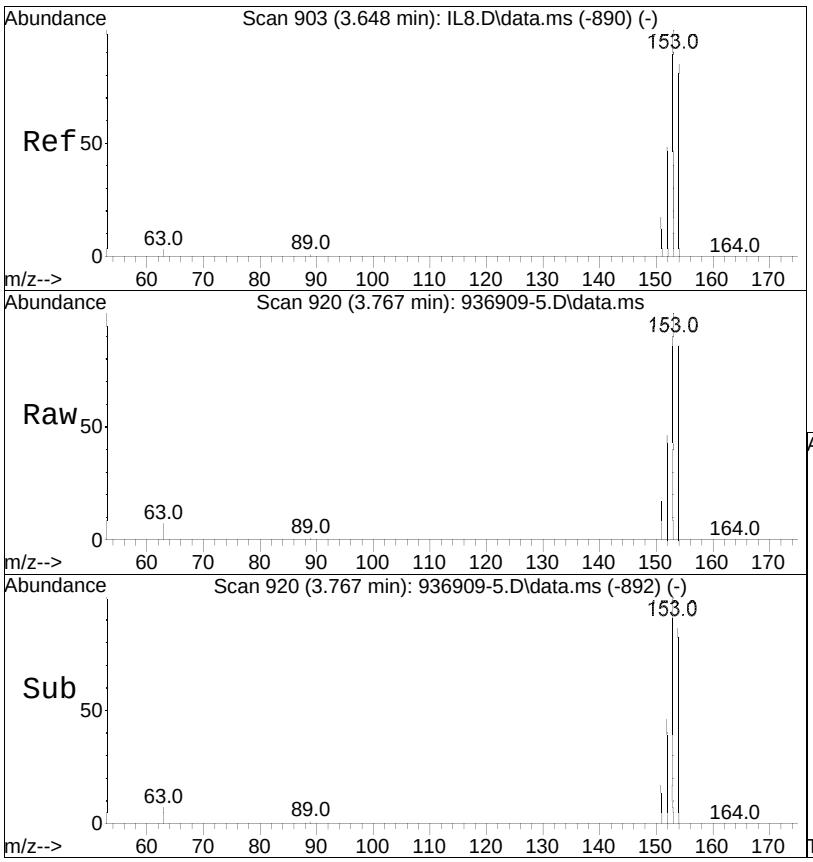


#17
Acenaphthylene
Concen: 1504.86 ng/ml
RT: 3.666 min Scan# 887
Delta R.T. 0.006 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:152 Resp: 732959

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6

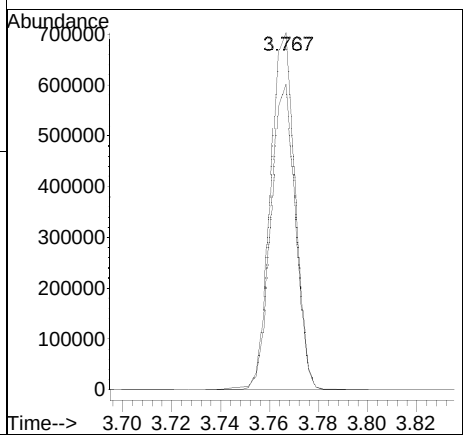


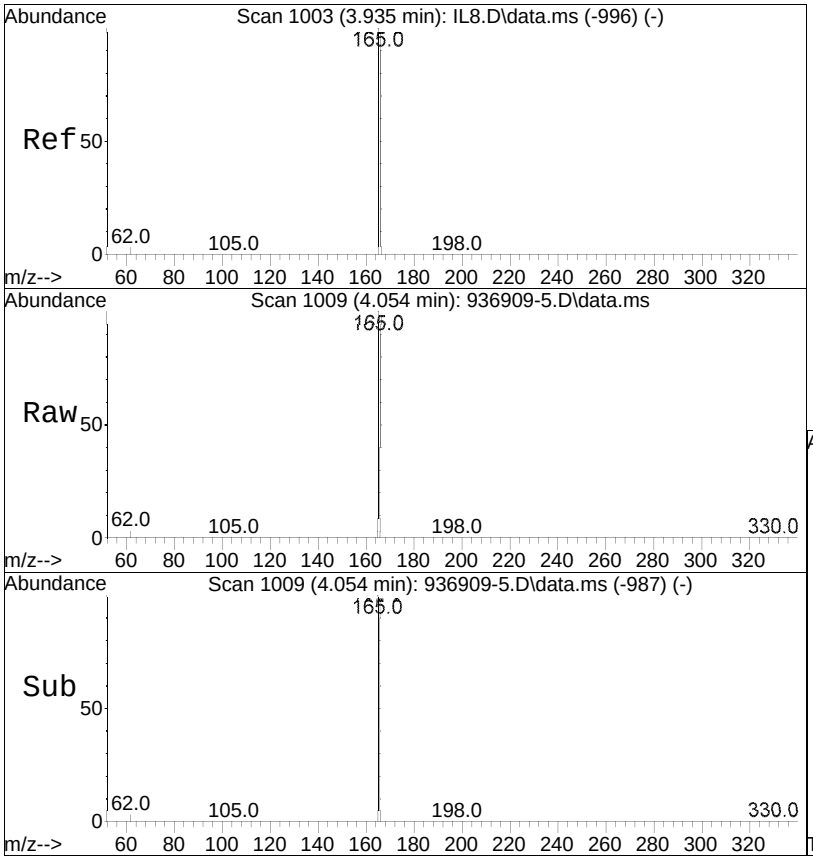


#19
Acenaphthene
Concen: 1567.52 ng/ml
RT: 3.767 min Scan# 920
Delta R.T. 0.006 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:153 Resp: 487229

Ion	Ratio	Lower	Upper
153	100		
154	85.6	68.4	102.6

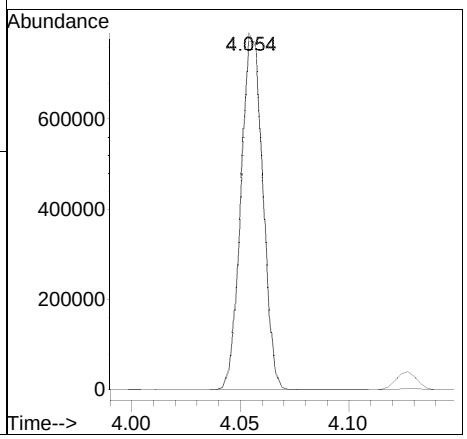


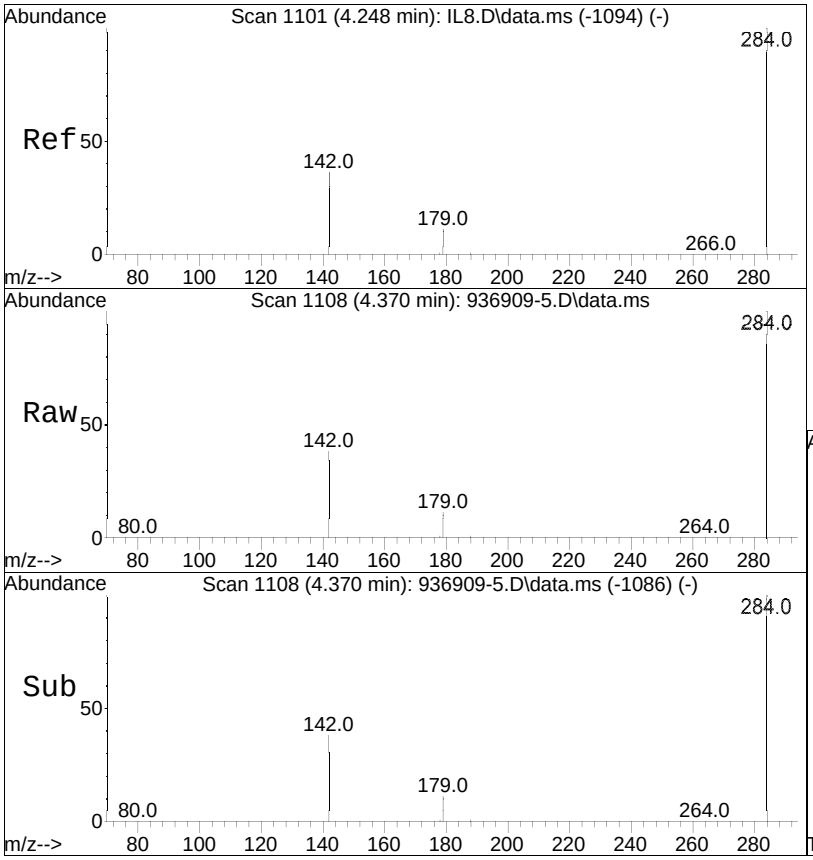


#21
Fluorene
Concen: 1541.81 ng/ml
RT: 4.054 min Scan# 1009
Delta R.T. 0.003 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:166 Resp: 548446

Ion	Ratio	Lower	Upper
166	100		
165	100.9	81.7	122.5

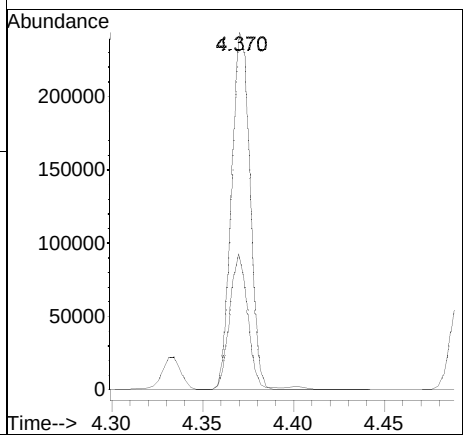


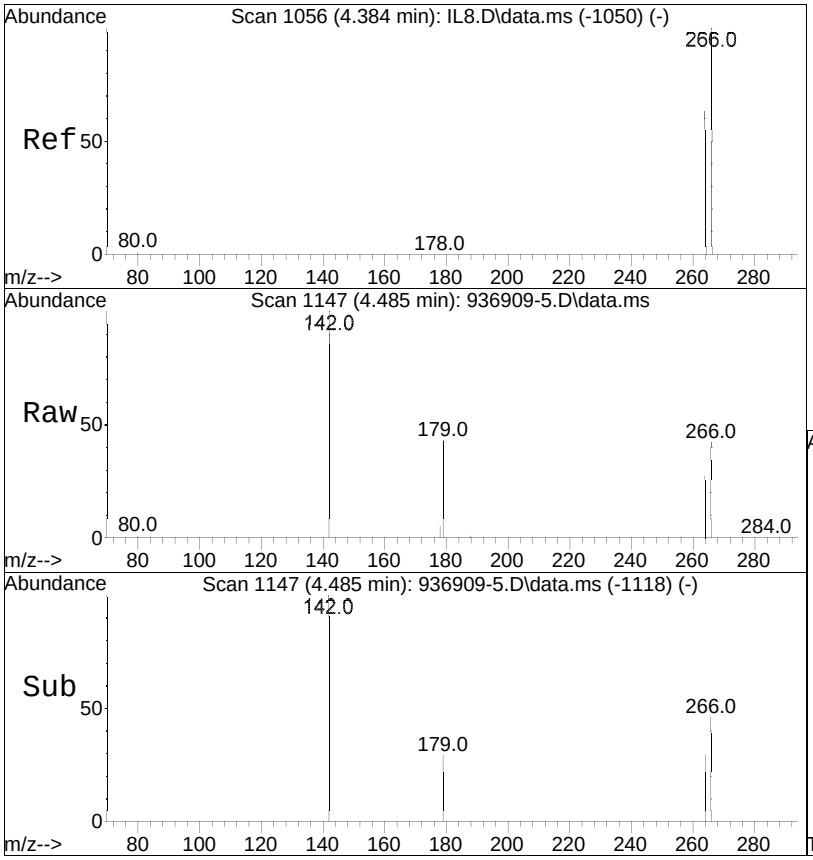


#25
Hexachlorobenzene
Concen: 1376.32 ng/ml
RT: 4.370 min Scan# 1108
Delta R.T. 0.002 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:284 Resp: 170630

Ion	Ratio	Lower	Upper
284	100		
142	37.6	28.2	42.2

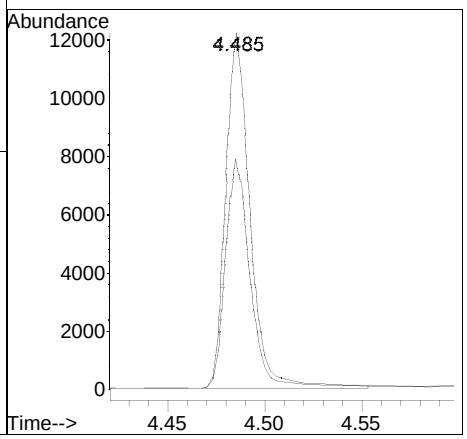


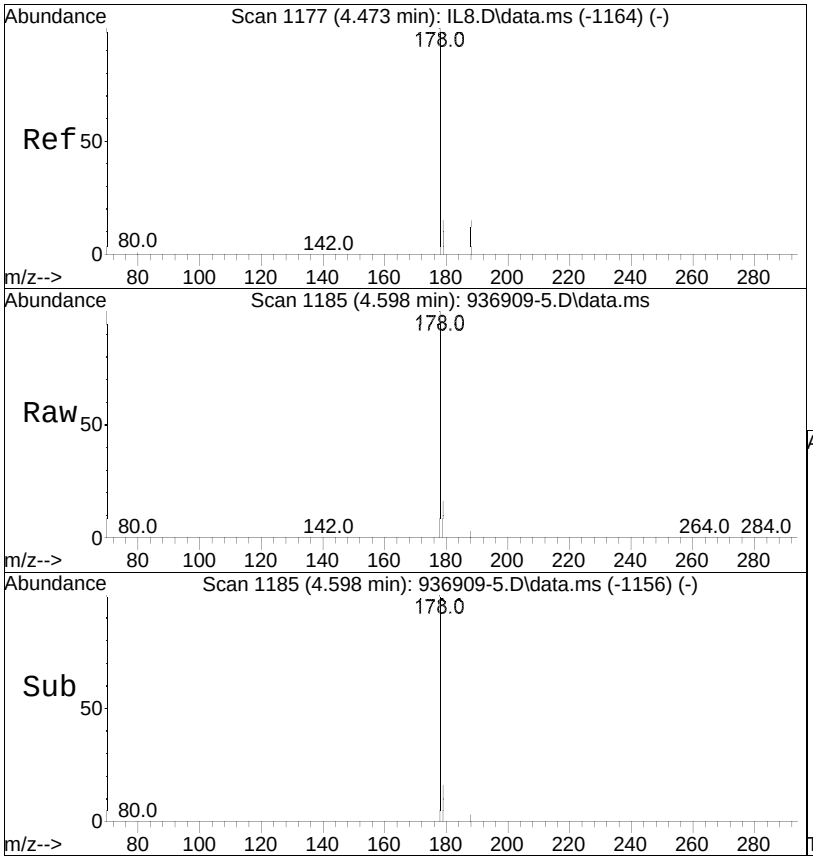


#26
Pentachlorophenol
Concen: 170.37 ng/ml
RT: 4.485 min Scan# 1147
Delta R.T. 0.005 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:266 Resp: 10496

Ion	Ratio	Lower	Upper
266	100		
264	65.6	50.6	76.0

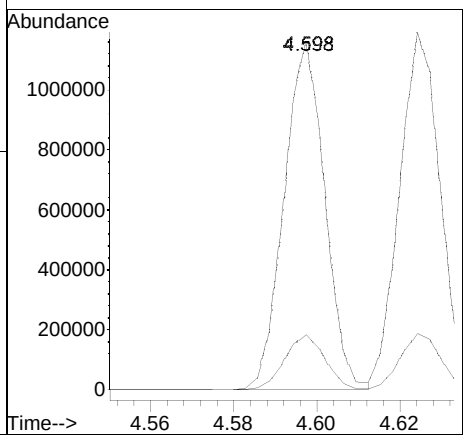


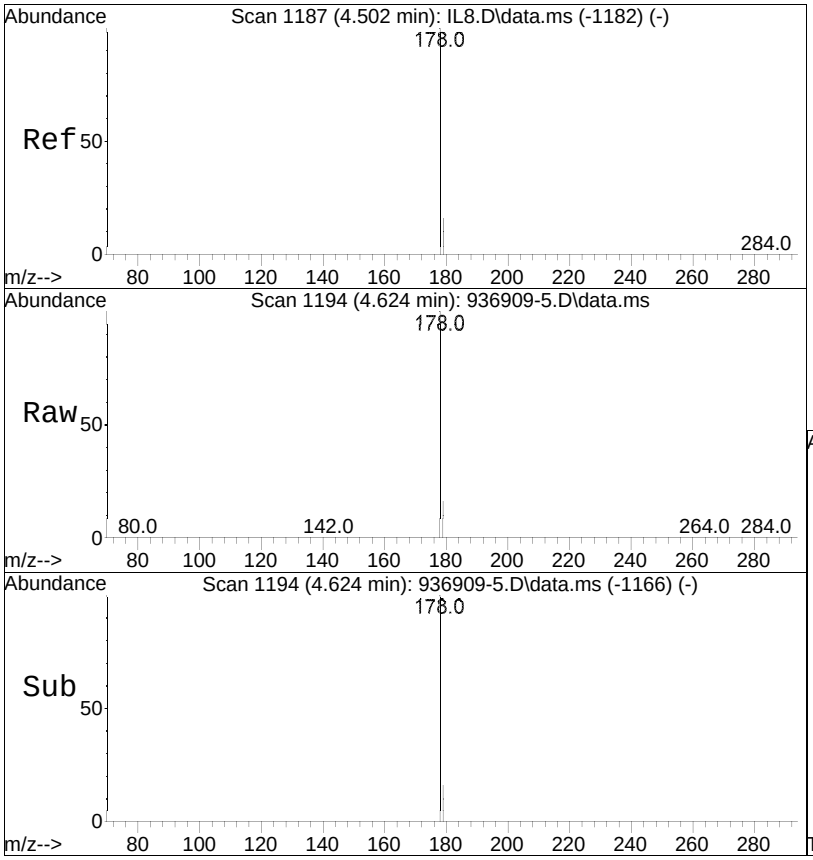


#27
Phenanthrene
Concen: 1520.10 ng/ml
RT: 4.598 min Scan# 1185
Delta R.T. 0.005 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:178 Resp: 787534

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

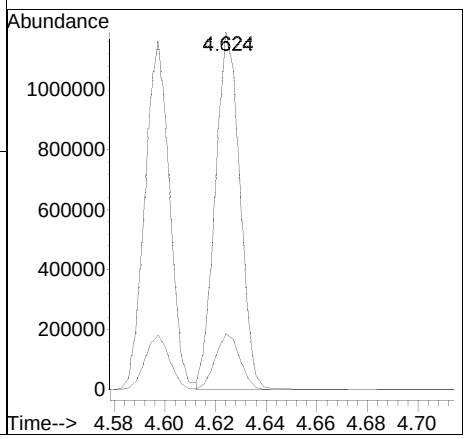


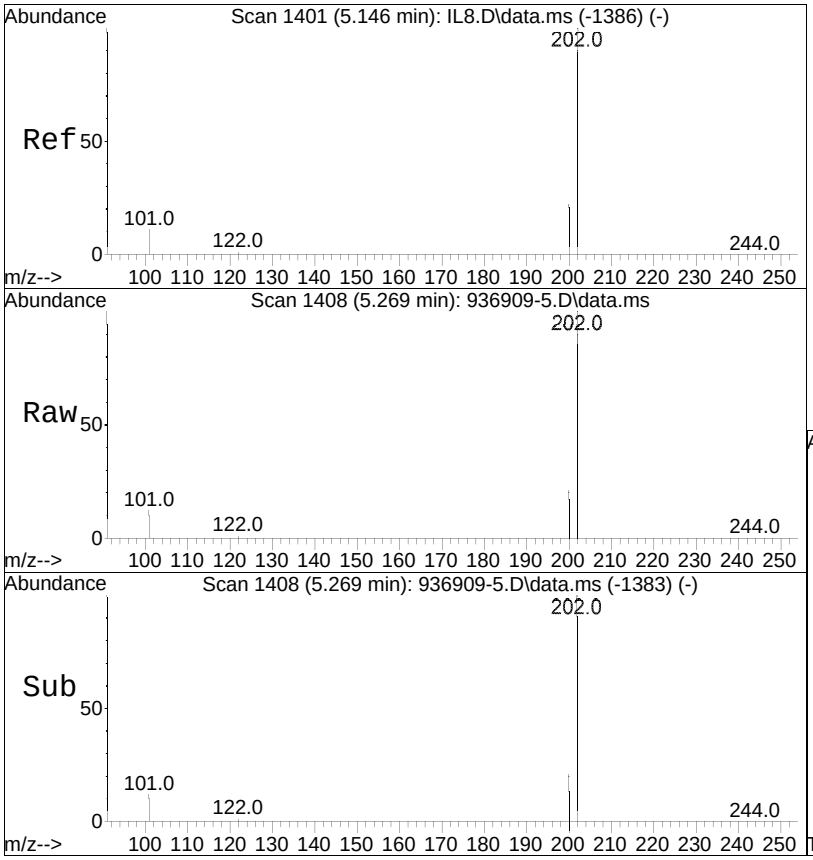


#28
Anthracene
Concen: 1615.77 ng/ml
RT: 4.624 min Scan# 1194
Delta R.T. 0.002 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:178 Resp: 808641

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

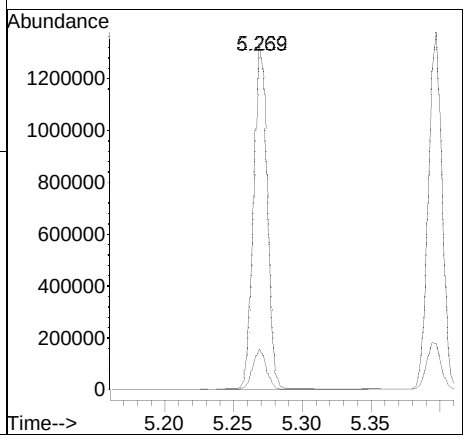


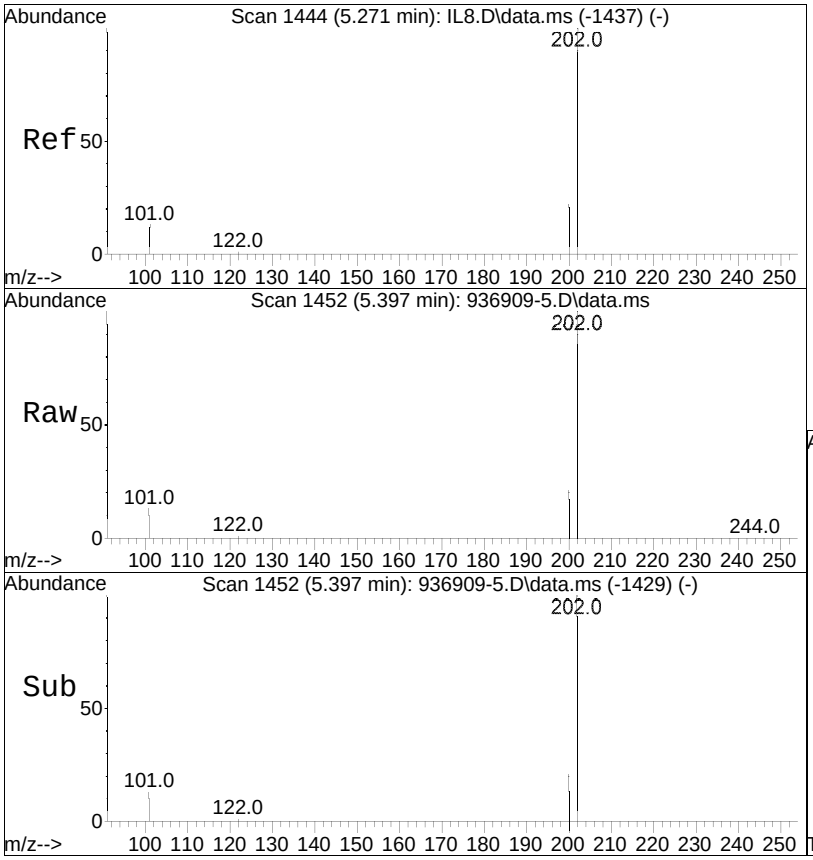


#29
Fluoranthene
Concen: 1554.64 ng/ml
RT: 5.269 min Scan# 1408
Delta R.T. -0.006 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:202 Resp: 933978

Ion	Ratio	Lower	Upper
202	100		
101	11.6	8.7	13.1

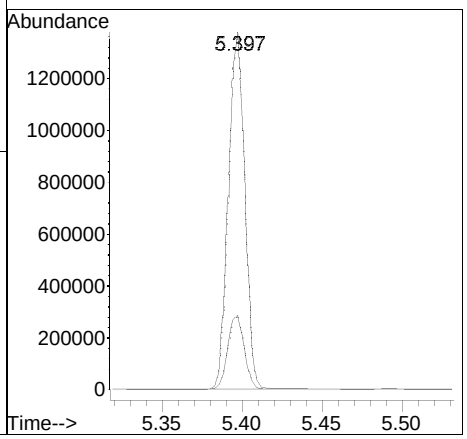


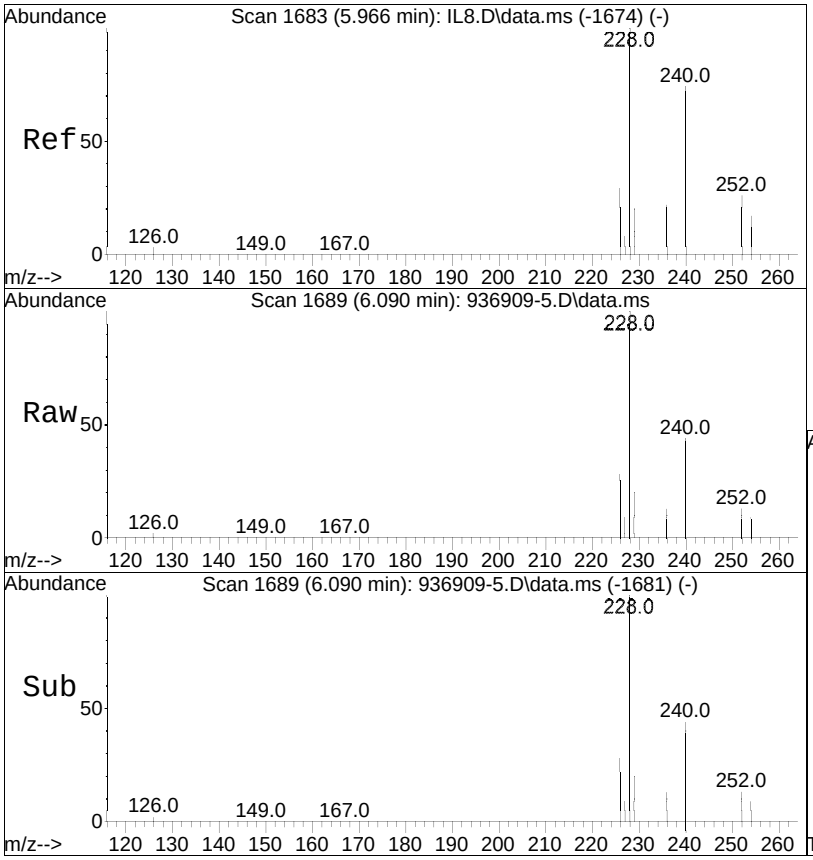


#30
Pyrene
Concen: 1537.57 ng/ml
RT: 5.397 min Scan# 1452
Delta R.T. -0.012 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:202 Resp: 965831

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

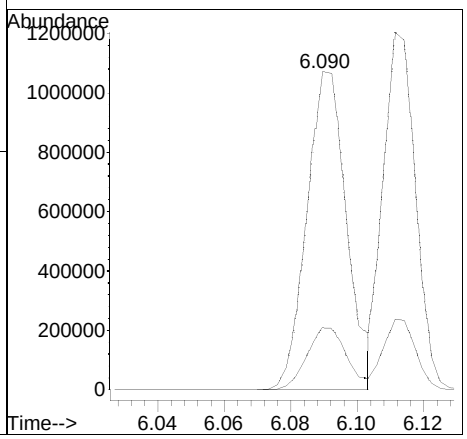


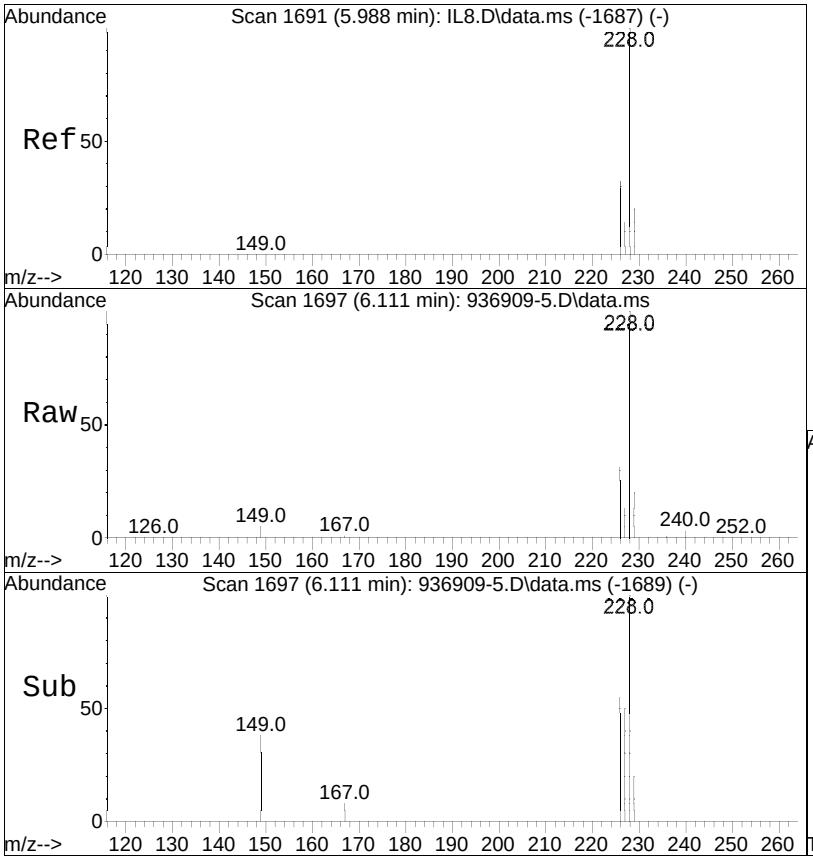


#33
Benzo[a]anthracene
Concen: 1585.62 ng/ml
RT: 6.090 min Scan# 1689
Delta R.T. -0.058 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:228 Resp: 890263

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.8	23.6

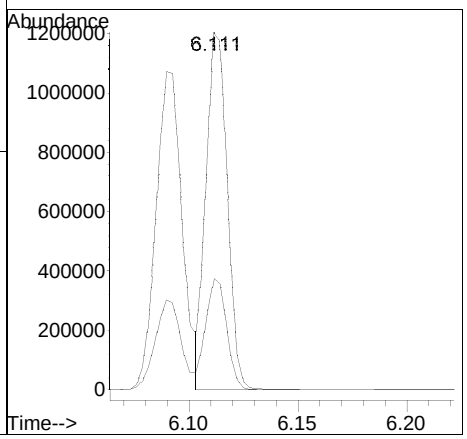


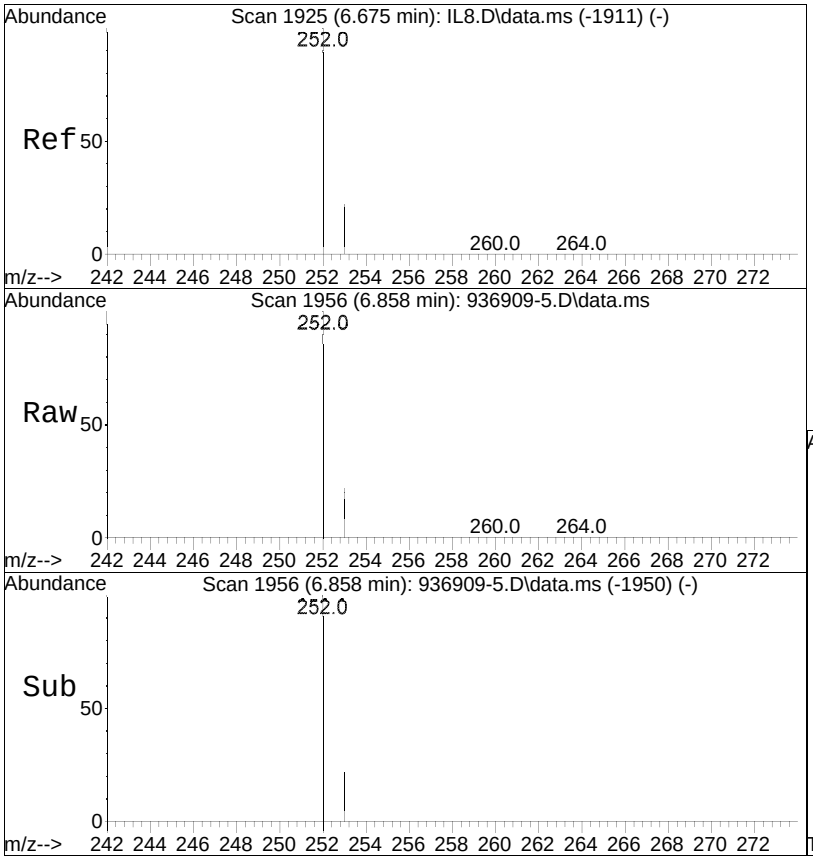


#35
Chrysene
Concen: 1621.44 ng/ml
RT: 6.111 min Scan# 1697
Delta R.T. -0.058 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:228 Resp: 813610

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.1	37.7

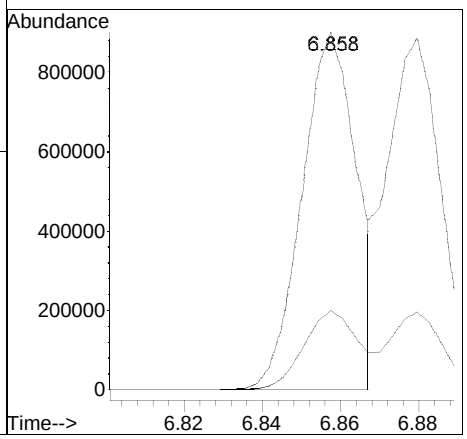


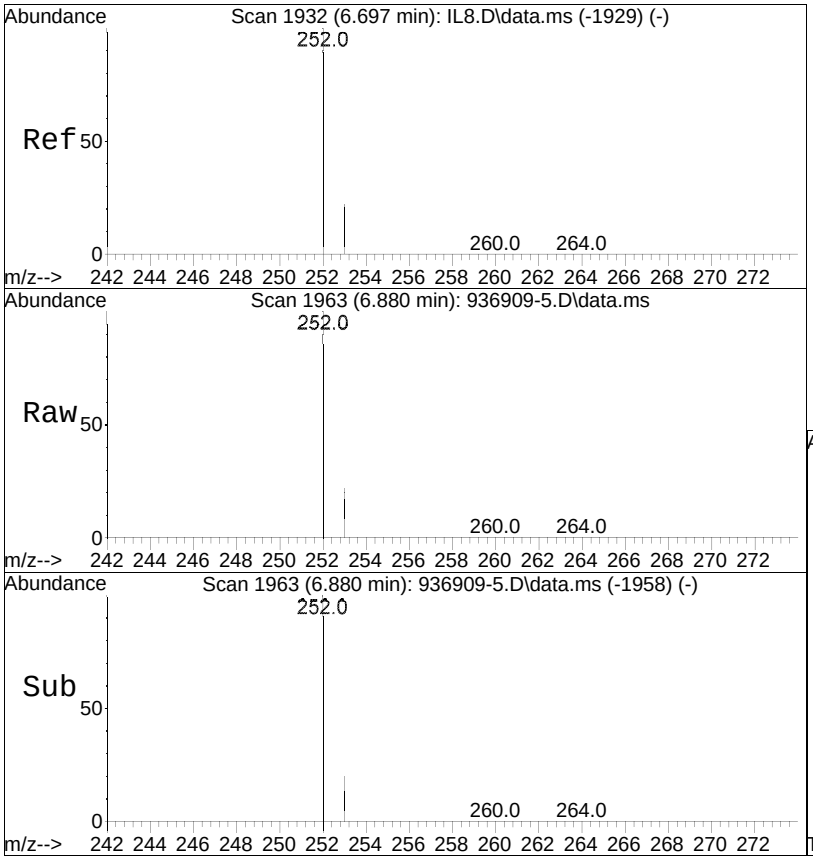


#38
Benzo[b]fluoranthene
Concen: 1611.55 ng/ml
RT: 6.858 min Scan# 1956
Delta R.T. -0.060 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:252 Resp: 874781

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

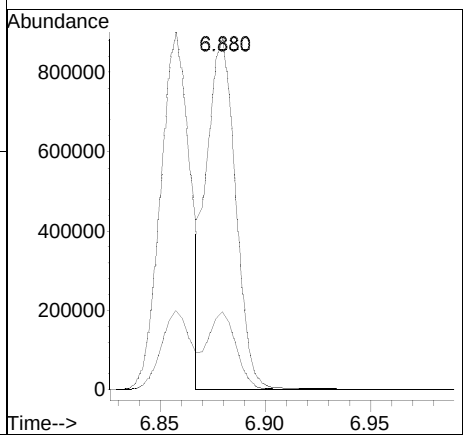


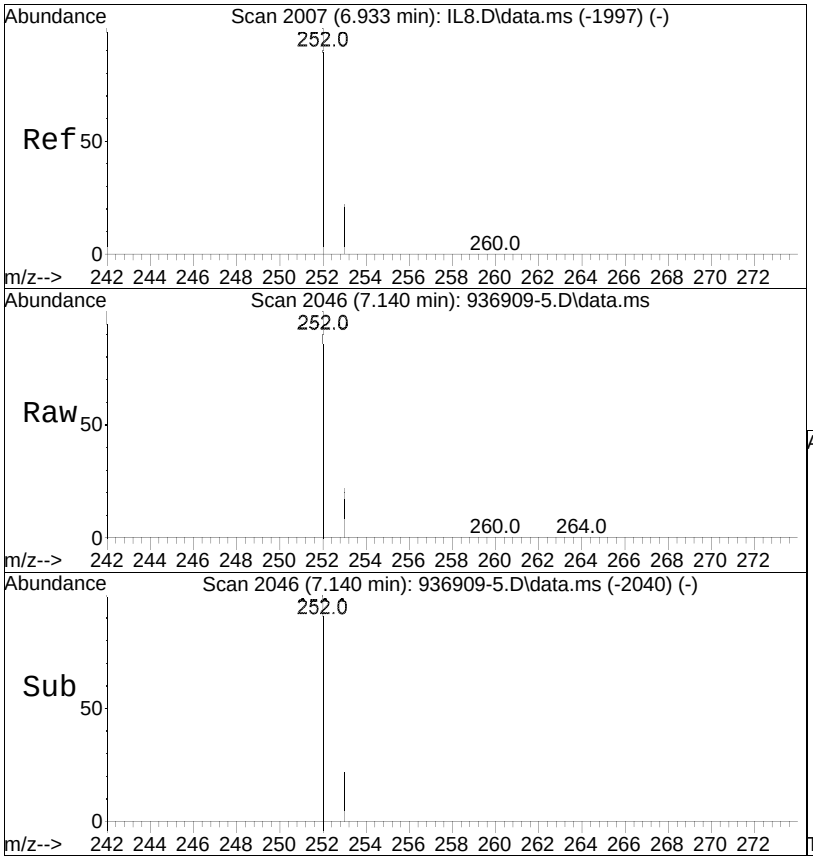


#39
Benzo[k]fluoranthene
Concen: 1673.00 ng/ml
RT: 6.880 min Scan# 1963
Delta R.T. -0.063 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:252 Resp: 847020

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5

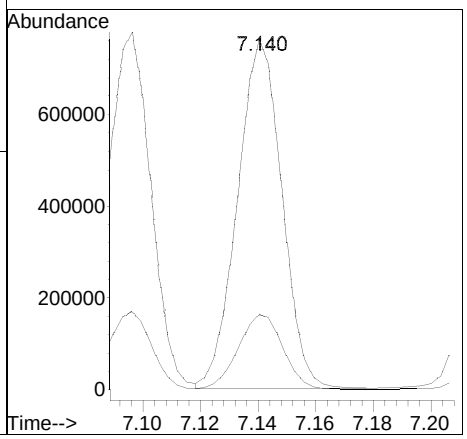


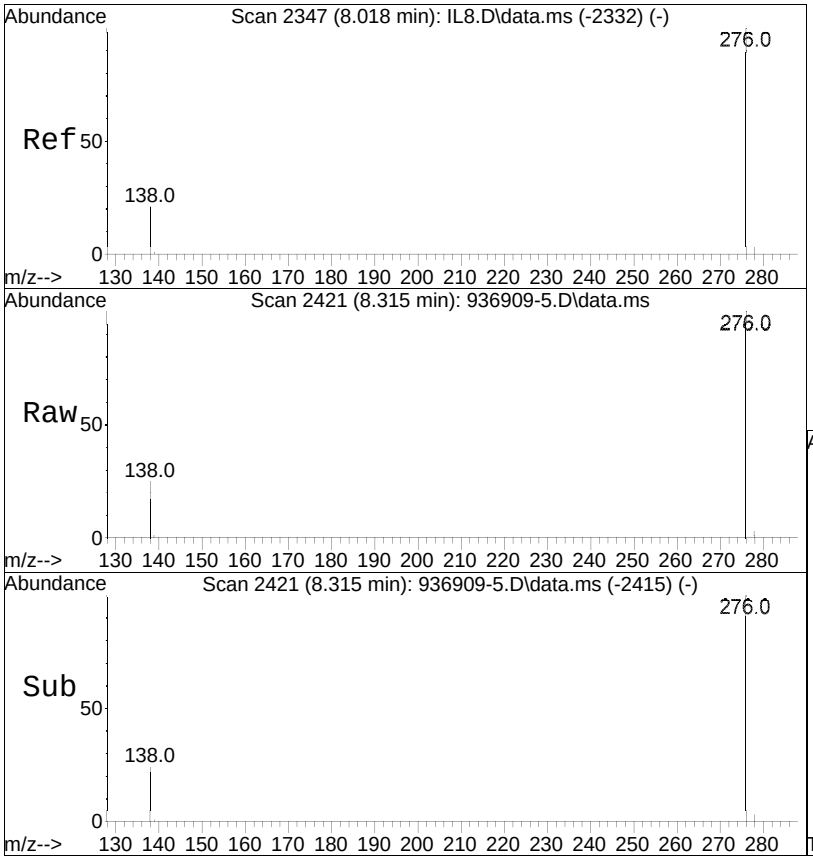


#40
Benzo[a]pyrene
Concen: 1803.65 ng/ml
RT: 7.140 min Scan# 2046
Delta R.T. -0.060 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:252 Resp: 811860

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

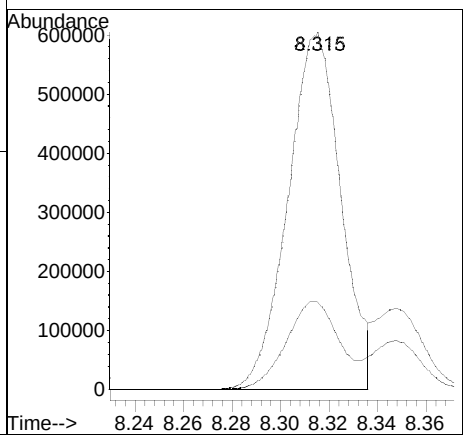


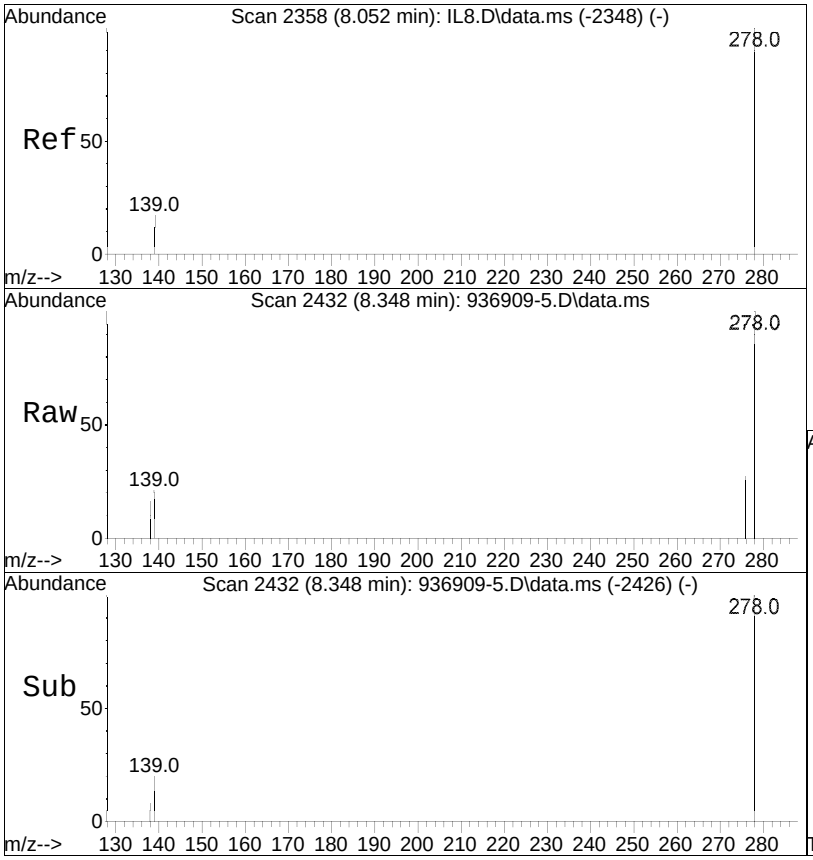


#41
Indeno[1,2,3-cd]pyrene
Concen: 2035.21 ng/ml
RT: 8.315 min Scan# 2421
Delta R.T. -0.062 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:276 Resp: 912544

Ion	Ratio	Lower	Upper
276	100		
138	25.3	16.2	24.4#

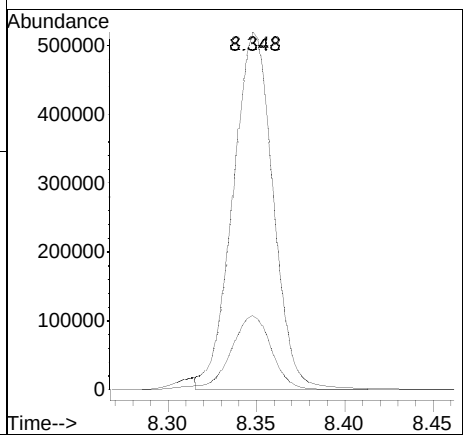


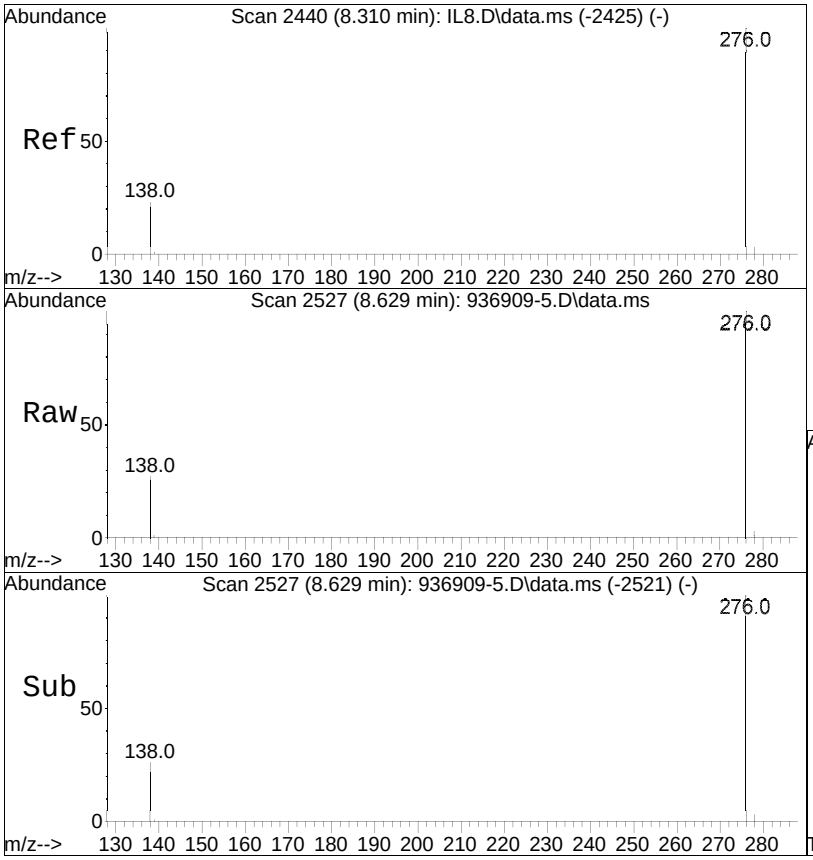


#42
Dibenzo[a,h]anthracene
Concen: 1966.16 ng/ml M6
RT: 8.348 min Scan# 2432
Delta R.T. -0.062 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:278 Resp: 817235

Ion	Ratio	Lower	Upper
278	100		
139	21.2	14.5	21.7

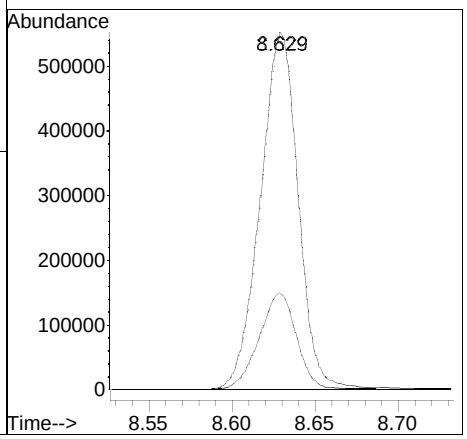




#43
Benzo[g,h,i]perylene
Concen: 1909.91 ng/ml
RT: 8.629 min Scan# 2527
Delta R.T. -0.062 min
Lab File: 936909-5.D
Acq: 20 Jun 2024 09:58 pm

Tgt Ion:276 Resp: 861870

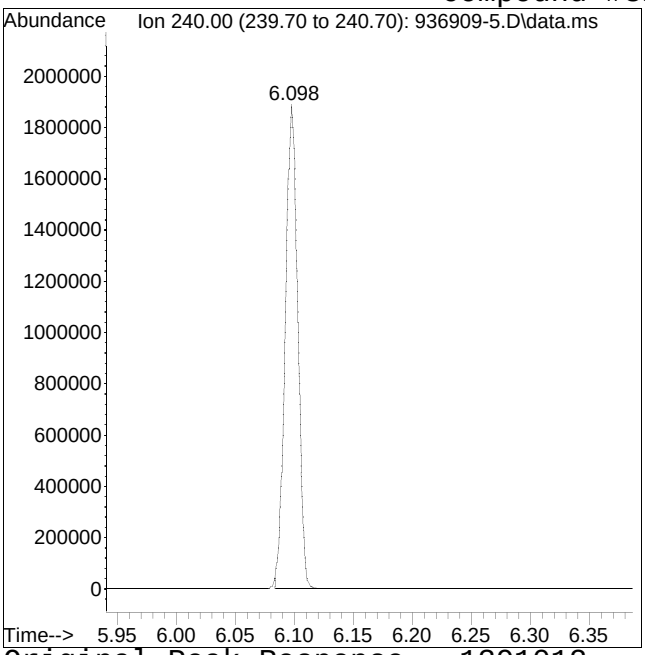
Ion	Ratio	Lower	Upper
276	100		
138	27.1	18.5	27.7



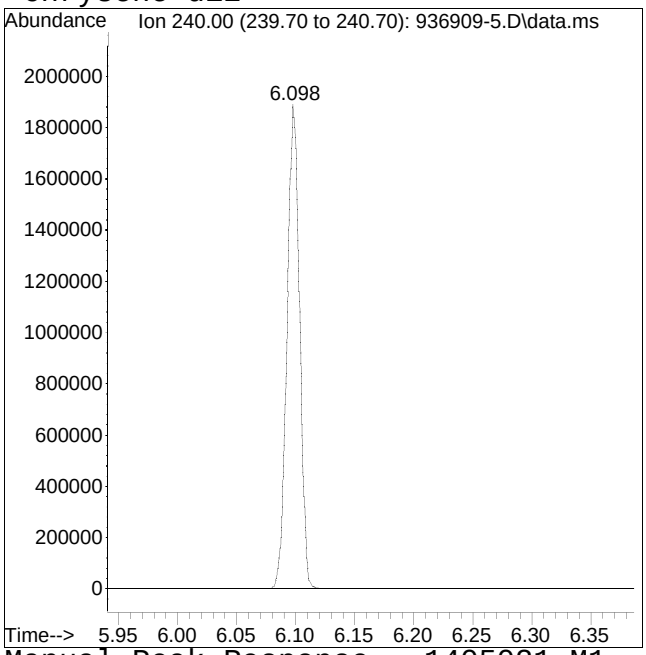
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-5.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 9:58 pm Instrument : SV125
Sample : WG1936909-5,32,,rp Quant Date : 6/20/2024 10:12 pm

Compound #32: Chrysene-d12



Original Peak Response = 1391012



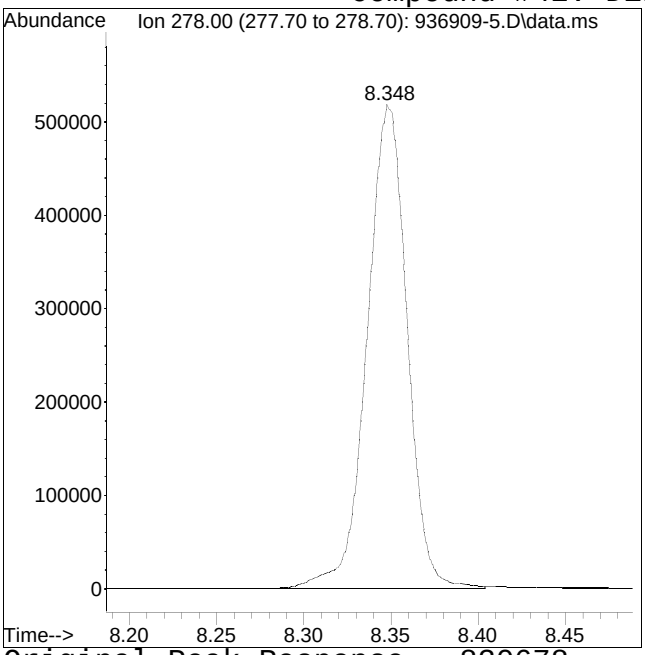
Manual Peak Response = 1405021 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

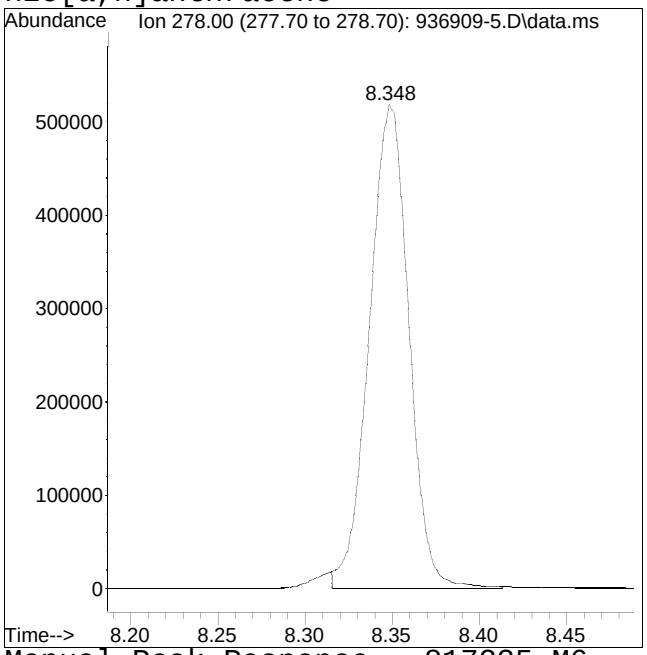
Manual Integration Report

Data Path : I:\8270SIM\SV125\240620aRVQMethod : SIM-RVT_240223_sv125.M
Data File : 936909-5.D Operator : SV125:jjw
Date Inj'd : 6/20/2024 9:58 pm Instrument : SV125
Sample : WG1936909-5,32,,rp Quant Date : 6/20/2024 10:12 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 830678



Manual Peak Response = 817235 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 21 2024, 05:15 pm

Work Group: WG1936734 for Department: 2 Organic Preparation

Created: 19-JUN-24 Due: Operator: YDA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2431203-02	GW-4_20240605	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0612	0619	S0	Amber-A.1
L2432996-05	FH-GW-1	S	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433375-01	EB_06132024	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-06	MW-12D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-07	MW-4S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-08	MW-4D2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-01	MW3R	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-02	MW6	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-03	MW4	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-04	MW5	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-05	MW9	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-06	MW1R	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-08	DUPE1	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433494-10	EQUIPMENT BLANK	C	8270TCL-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
WG1936734-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1936734-1	Laboratory Method Bl	S	8270TCL-SIM-RVT	WATER	DONE	U				
WG1936734-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1936734-2	Laboratory Control S	S	8270TCL-SIM-RVT	WATER	DONE	U				
WG1936734-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1936734-3	LCS Duplicate	S	8270TCL-SIM-RVT	WATER	DONE	U				

Comments:

WG1936734-3 WG1936734-2

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 21 2024, 05:15 pm

Work Group: WG1936909 for Department: 2 Organic Preparation

Created: 20-JUN-24 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-03	PZ-5	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-04	MW-5D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
WG1936909-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1936909-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1936909-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1936909-4	Matrix Spike	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1936909-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1936909-3	WG1936909-2
WG1936909-4	L2433375-04
WG1936909-5	L2433375-04

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 21 2024, 05:15 pm

Work Group: WG1937577 for Department: 2 Organic Preparation

Created: 21-JUN-24 Due: Operator: KLA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-02	DUP_06132024	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
L2433375-05	MW-12S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0620	0620	S0	Amber-A.1
WG1937577-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1937577-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1937577-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1937577-3 WG1937577-2

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\SV125\240223RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune.D	DFTPP(100ml) TUNE		WG1889366,,ical	2/23/2024 2:09 pm
2	IL10.D	fast-SIM-LVI	IL10,32,,5000.0 ng/ml	WG1889366,,ical	2/23/2024 2:31 pm
3	IL9.D	fast-SIM-LVI	IL9,32,,2500.0 ng/ml	WG1889366,,ical	2/23/2024 2:47 pm
4	IL8.D	fast-SIM-LVI	IL8,32,,1000.0 ng/ml	WG1889366,,ical	2/23/2024 3:03 pm
5	IL7.D	fast-SIM-LVI	IL7,32,,500.0 ng/ml	WG1889366,,ical	2/23/2024 3:19 pm
6	IL6.D	fast-SIM-LVI	IL6,32,,100.0 ng/ml	WG1889366,,ical	2/23/2024 3:35 pm
7	IL5.D	fast-SIM-LVI	IL5,32,,40.0 ng/ml	WG1889366,,ical	2/23/2024 3:51 pm
8	IL4.D	fast-SIM-LVI	IL4,32,,10.0 ng/ml	WG1889366,,ical	2/23/2024 4:07 pm
9	IL3.D	fast-SIM-LVI	IL3,32,,5.0 ng/ml	WG1889366,,ical	2/23/2024 4:23 pm
10	IL2.D	fast-SIM-LVI	IL2,32,,2.0 ng/ml	WG1889366,,ical	2/23/2024 4:40 pm
11	IL1.D	fast-SIM-LVI	IL1,32,,1.0 ng/ml	WG1889366,,ical	2/23/2024 4:56 pm
12	ICV.D	fast-SIM-LVI	CQICV,32,, 1.000 Lot#10	WG1889366,,ical	2/23/2024 5:12 pm
13	insblk.D	fast-SIM-LVI			2/23/2024 5:28 pm

Printed: 05/20/24 Page: 1

Analysis log File

Total Files Reported in Log : 17
Log Generated From Directory: I:\8270SIM\sv120\240521RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRVT.M	TUNE	WG1927083,,ical	5/21/2024 9:54 am
2	IL10.D	fast-SIM-LVI	IL10,32,,5000.0ng/mL lo	WG1927083,,ical	5/21/2024 10:21 am
3	IL9.D	fast-SIM-LVI	IL9,32,,2500.0ng/mL lot	WG1927083,,ical	5/21/2024 10:37 am
4	IL8.D	fast-SIM-LVI	IL8,32,,1000.0ng/mL lot	WG1927083,,ical	5/21/2024 10:53 am
5	IL7.D	fast-SIM-LVI	IL7,32,,500.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:10 am
6	IL6.D	fast-SIM-LVI	IL6,32,,100.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:26 am
7	IL5.D	fast-SIM-LVI	IL5,32,,40.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:42 am
8	IL4.D	fast-SIM-LVI	IL4,32,,10.0ng/mL lot#1	WG1927083,,ical	5/21/2024 11:59 am
9	IL3.D	fast-SIM-LVI	IL3,32,,5.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:15 pm
10	IL2.D	fast-SIM-LVI	IL2,32,,2.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:32 pm
11	IL1.D	fast-SIM-LVI	IL1,32,,1.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:48 pm
12	ICV.D	fast-SIM-LVI	ng/mL lot #10475		5/21/2024 1:05 pm
13	insblk.D	fast-SIM-LVI			5/21/2024 1:21 pm
14	TUNEa.D	DFTPPRVT.M	TUNEa	WG1927083,,ical	5/22/2024 1:16 pm
15	IL10a.D	fast-SIM-LVI	IL10,32,,5000.0ng/mL lo	WG1927083,,ical	5/22/2024 1:32 pm
16	ICVa.D	fast-SIM-LVI	CQICV,32,,1000.0ng/mL l	WG1927083,,ical	5/22/2024 1:49 pm
17	insblka.D	fast-SIM-LVI			5/22/2024 2:05 pm

Dep.: GCMS
Inst: SV125
Date: **06/20/24**
Run: **A**

Method
GC: 8270 SIMRVT

Seq: WG1937057

Vial	Data File	Sample	ICAL	notes	initials
48	deg0620a	wg-1,32,,dftpp sv125 lot#10768	20885		06/21/24
49	ccv0620	wg-3,32,,ICV #10475 (0617)			RAP
50	blank0620a	instrument blank			
1	936732-1	WG1936732-1,32,,jjw			
2	936732-2	WG1936732-2,32,,jjw			
3	936732-3	WG1936732-3,32,,jjw			
4	935892-2	WG1935892-2,32,,jjw			
5	935892-3	WG1935892-3,32,,jjw			
6	935892-1	WG1935892-1,32,,jjw			
7	936734-2	WG1936734-2,32,,jjw			
8	936734-3	WG1936734-3,32,,jjw			
9	936734-1	WG1936734-1,32,,jjw			
10	32996-05	L2432996-05,32,,RE,jjw			
11	33474-03	L2433474-03,32,,jjw			
12	33474-04	L2433474-04,32,,jjw			
13	33474-07	L2433474-07,32,,jjw			
14	33474-08	L2433474-08,32,,jjw			
15	33525-04	L2433525-04,32,,jjw			
16	32799-01	L2432799-01,32,,RV,jjw			
17	33525-05	L2433525-05,32,,jjw			
18	33525-07	L2433525-07,32,,jjw			
19	33525-08	L2433525-08,32,,jjw			
20	33375-01	L2433375-01,32,,jjw			
21	33375-03	L2433375-03,32,,jjw			
22	33375-05	L2433375-05,32,,jjw			
23	33494-02	L2433494-02,32,,jjw			
24	33494-03	L2433494-03,32,,jjw			
25	33494-04	L2433494-04,32,,jjw			
26	22662-56	L2422662-56,32,,jjw			
27	936732-4	WG1936732-4,32,,jjw			
28	936732-5	WG1936732-5,32,,jjw			
29	935892-4	WG1935892-4,32,,jjw			
30	935892-5	WG1935892-5,32,,jjw			
31	33375-02	L2433375-02,32,,jjw			
32	33375-06	L2433375-06,32,,jjw			
33	33375-07	L2433375-07,32,,jjw			
34	33375-08	L2433375-08,32,,jjw			
35	936909-2	WG1936909-2,32,,rp			
36	936909-3	WG1936909-3,32,,rp			
37	936909-1	WG1936909-1,32,,rp			
38	936909-4	WG1936909-4,32,,rp			
39	936909-5	WG1936909-5,32,,rp			

Dep.: GCMS
Inst: SV125
Date: **06/20/24**
Run: **A**

Method
GC: 8270 SIMRVT

Seq: WG1937057

Vial	Data File	Sample	ICAL	notes	initials
40	33375-04	L2433375-04,32,,rp			

	Type	Method File	Vial	Name	Data File	Comment
	Sample	DFTPPRVT.M	48	wg-1,32,, dftpp SV120 lot#10844	deg0621	wg,,ical21160
	Sample	fast-SIM-LVIRVT.M	49	wg-3,32,, ICV10475 0617	ccv0621	wg,,ical21160
	Sample	fast-SIM-LVIRVT.M	50	instrument Blank	blk0621	wg,,ical21160
	Keyword					
	Sample	fast-SIM-LVIRVT.M	1	WG1936778-1,32,,RR(OTT),rp	936778-1	WG137540,WG1936778,ical21160
	Sample	fast-SIM-LVIRVT.M	2	WG1937165-1,32,,rp	937165-1	WG137540,WG1937165,ical21160
	Sample	fast-SIM-LVIRVT.M	3	WG1937165-2,32,,rp	937165-2	WG137540,WG1937165,ical21160
	Sample	fast-SIM-LVIRVT.M	4	WG1937165-3,32,,rp	937165-3	WG137540,WG1937165,ical21160
	Sample	fast-SIM-LVIRVT.M	5	L2434483-01,32,,R3C,rp	34483-01	WG137540,WG1937165,ical21160
	Sample	fast-SIM-LVIRVT.M	6	WG1937166/7-2,32,,rp	937166-2	WG137540,WG1937166,ical21160
	Sample	fast-SIM-LVIRVT.M	7	WG1937166/7-3,32,,rp	937166-3	WG137540,WG1937166,ical21160
	Sample	fast-SIM-LVIRVT.M	8	WG1937166/7-1,32,,rp	937166-1	WG1937540,WG1937166,ical21160
	Sample	fast-SIM-LVIRVT.M	9	L2433375-03,32,,rp	33375-03	WG1937540,WG1936909,ical21160
	Sample	fast-SIM-LVIRVT.M	10	L2433453-01,32,,jjw	33453-01	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	11	L2433453-02,32,,jjw	33453-02	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	12	L2433270-03,32,,jjw	33270-03	WG1937540,WG1936314,ical21160
	Sample	fast-SIM-LVIRVT.M	13	L2433453-03,32,,jjw	33453-03	WG1937540,WG1936314,ical21160
	Sample	fast-SIM-LVIRVT.M	14	L2433471-01,32,,jjw	33471-01	WG1937540,WG1936778,ical21160
	Sample	fast-SIM-LVIRVT.M	15	WG1937167/6-2,32,,RV,jjw	37167-2	WG1937540,WG1937167,ical21160
	Sample	fast-SIM-LVIRVT.M	16	WG1937167/6-3,32,,RV,jjw	37167-3	WG1937540,WG1937167,ical21160
	Sample	fast-SIM-LVIRVT.M	17	L2433471-02,32,,jjw	33471-02	WG1937540,WG1936778,ical21160
	Sample	fast-SIM-LVIRVT.M	18	L2433471-03,32,,jjw	33471-03	WG1937540,WG1936778,ical21160
	Sample	fast-SIM-LVIRVT.M	19	L2433471-04,32,,jjw	33471-04	WG1937540,WG1936778,ical21160
	Sample	fast-SIM-LVIRVT.M	20	L2433471-05,32,,jjw	33471-05	WG1937540,WG1936778,ical21160
	Sample	fast-SIM-LVIRVT.M	21	L2433413-01,32,,rp	33413-01	WG1937540,WG1937166,ical21160
	Sample	fast-SIM-LVIRVT.M	22	L2433494-01,32,,jjw	33494-01	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	23	L2433494-05,32,,jjw	33494-05	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	24	L2433494-06,32,,jjw	33494-06	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	25	L2433494-07,32,,jjw	33494-07	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	26	L2433494-08,32,,jjw	33494-08	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	27	L2433494-10,32,,jjw	33494-10	WG1937540,WG1936734,ical21160
	Sample	fast-SIM-LVIRVT.M	28	L2433525-03,32,,jjw	33525-03	WG1937540,WG1936732,ical21160
	Sample	fast-SIM-LVIRVT.M	29	L2433525-10,32,,jjw	33525-10	WG1937540,WG1936732,ical21160
	Sample	fast-SIM-LVIRVT.M	30	L2433525-15,32,,jjw	33525-15	WG1937540,WG1936732,ical21160

ORGANIC ELN REPORT

Workgroup: WG1936734

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN-SIM
Spike Verify by: YDA
Lims Spikelot: 8270-RVT

Lot #: EI560
Lot #: 10808ag,10/31/2024,d1,7,2
Lot #: 10737ad,10/31/2024,10738au,0

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2431203-02 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2432996-05 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433270-03 SAMP	06/20/24 03:09	Annabella Sarfo	100	<2,>12	.1					
L2433375-01 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433375-02 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433375-03 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H

Reported: 21-JUN-24 05:15 PM

ORGANIC ELN REPORT

Workgroup: WG1936734

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433375-05 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433375-06 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433375-07 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433375-08 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433453-01 SAMP	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433453-02 SAMP	06/20/24 00:05	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-01 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-02 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433494-03 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H

Reported: 21-JUN-24 05:15 PM

ORGANIC ELN REPORT

Workgroup: WG1936734

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433494-04 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
L2433494-05 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-06 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-07	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-08 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
L2433494-10 WATER	06/19/24 21:40	Yaw Adu	100	<2,>12	.1		06/20/24 10:15	Kellsey Geikie	1	H
WG1936734-1 BLANK	06/19/24 21:40 **WG1936733**	Yaw Adu	100	<2,>12	.1		06/20/24 07:23	Alaina Ohara-Cruz	1	H
WG1936734-2 LCS	06/19/24 21:40	Yaw Adu	100	<2,>12	.1	.1	06/20/24 07:23	Alaina Ohara-Cruz	1	H
WG1936734-3 LCSD	06/19/24 21:40	Yaw Adu	100	<2,>12	.1	.1	06/20/24 07:23	Alaina Ohara-Cruz	1	H

Reported: 21-JUN-24 05:15 PM

ORGANIC ELN REPORT

Workgroup: WG1936909

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN-SIM
Spike Verify by: MAD
Lims Spikelot: 8270-RVT

Lot #: EI560
Lot #: 10808AH-103124
Lot #: 10737AJ-103124 | 10738BA-08

Additional Reagents/Stds

H2SO4	A050724
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2433375-03 SAMP	06/20/24 21:10	Daniel Erhagbai	100	<2, >12	.1		06/21/24 02:40	Alaina Ohara-Cruz	1	H
L2433375-04 SAMP	06/20/24 08:00	Michael Daring	100	<2, >12	.1		06/20/24 12:36	Kellsey Geikie	1	H
WG1936909-1 BLANK	06/20/24 08:00 **WG1936908**	Michael Daring	100	<2, >12	.1		06/20/24 12:36	Kellsey Geikie	1	H
WG1936909-2 LCS	06/20/24 08:00 **WG1936908**	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H
WG1936909-3 LCSD	06/20/24 08:00 **WG1936908**	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H
WG1936909-4 MS	06/20/24 08:00	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H
WG1936909-5 MSD	06/20/24 08:00	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H

Reported: 21-JUN-24 05:15 PM

ORGANIC ELN REPORT

Workgroup: WG1937577

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10808AH-103124
Spike Type: ABN-SIM **Lot #:** 10737AJ-103124 | 10738BA-08
Spike Verify by: MAD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A050724
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2433375-02 SAMP	06/21/24 01:42	Annabella Sarfo	100	<2, >12	.1		06/21/24 06:48	Alaina Ohara-Cruz	1	H
L2433375-05 SAMP	06/21/24 01:42	Annabella Sarfo	100	<2, >12	.1		06/21/24 06:48	Alaina Ohara-Cruz	1	H
WG1937577-1 BLANK	06/20/24 08:00	Michael Daring	100	<2, >12	.1		06/20/24 12:36	Kellsey Geikie	1	H
	WG1936908									
WG1937577-2 LCS	06/20/24 08:00	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H
WG1937577-3 LCSD	06/20/24 08:00	Michael Daring	100	<2, >12	.1	.1	06/20/24 12:36	Kellsey Geikie	1	H

Reported: 21-JUN-24 05:15 PM

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433375
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
EB_06132024 (L2433375-01)	41	--	--	--	--	--	0
DUP_06132024 (L2433375-02)	38	--	--	--	--	--	0
PZ-5 (L2433375-03)	38	--	--	--	--	--	0
MW-5D (L2433375-04)	40	--	--	--	--	--	0
MW-12S (L2433375-05)	39	--	--	--	--	--	0
MW-12D (L2433375-06)	36	--	--	--	--	--	0
MW-4S (L2433375-07)	41	--	--	--	--	--	0
MW-4D2 (L2433375-08)	35	--	--	--	--	--	0
WG1936132-1BLANK	22	--	--	--	--	--	0
WG1936132-2LCS	35	--	--	--	--	--	0
WG1936132-3LCSD	38	--	--	--	--	--	0
MW-5DMS	43	--	--	--	--	--	0
MW-5DMSD	44	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-1,4-DIOXANE-SIM

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936132-2 Analysis Date : 06/19/24 11:21	**File ID**	: F2306192404
LCSD Sample ID	: WG1936132-3 Analysis Date : 06/19/24 11:41	**File ID**	: F2306192405

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
1,4-Dioxane	5000	6420	128	5000	6440	129	1	40-140	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 14:46
Matrix Spike	: WG1936132-4	**MS Analysis Date**	: 06/19/24 15:07
Matrix Spike Dup	: WG1936132-5	**MSD Analysis Date**	: 06/19/24 15:28

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ng/l)**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	819.	4720	6300	116	4900	6590	118	4	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936132-1	**Lab File ID**	: F2306192403
Instrument ID	: PAH23	**Extraction Date**	: 06/18/24
Matrix	: WATER	**Analysis Date**	: 06/19/24 11:02
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1936132-2LCS	WG1936132-2	06/19/24 11:21
WG1936132-3LCSD	WG1936132-3	06/19/24 11:41
EB_06132024	L2433375-01	06/19/24 13:43
DUP_06132024	L2433375-02	06/19/24 14:04
PZ-5	L2433375-03	06/19/24 14:25
MW-5D	L2433375-04	06/19/24 14:46
MW-5DMS	WG1936132-4	06/19/24 15:07
MW-5DMSD	WG1936132-5	06/19/24 15:28
MW-12S	L2433375-05	06/19/24 15:50
MW-12D	L2433375-06	06/19/24 16:12
MW-4D2	L2433375-08	06/19/24 16:33
MW-4S	L2433375-07	06/19/24 16:54

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH23	**Analysis Date**	: 06/10/24 09:51
Tune Standard	: R1839952-1	**Tune File ID**	: F2306102401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39
68	Less than 2.0% of mass 69	0.7 (1.7)1
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	48.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	23.2
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	14.4
442	Base Peak, or >50% of mass 198	54.8
443	15.0 - 24.0% of mass 442	10.4 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1839952-2	F2306102403	06/10/24 11:18
STD 50	R1839952-3	F2306102404	06/10/24 15:06
STD 100	R1839952-4	F2306102405	06/10/24 15:27
STD 500	R1839952-5	F2306102406	06/10/24 15:49
STD 1000	R1839952-6	F2306102407	06/10/24 16:11
STD 5000	R1839952-7	F2306102408	06/10/24 16:33
STD 10000	R1839952-9	F2306102409	06/10/24 16:55
ICV Quant Report	R1839952-8	F2306102410	06/10/24 17:17

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH23	**Analysis Date**	: 06/19/24 09:25
Tune Standard	: WG1936462-1	**Tune File ID**	: F2306192401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.3
68	Less than 2.0% of mass 69	0.7 (1.7)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.6
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	14.3
442	Base Peak, or >50% of mass 198	54.1
443	15.0 - 24.0% of mass 442	10.3 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1936462-2CCAL	WG1936462-2	F2306192402	06/19/24 09:57
WG1936132-1BLANK	WG1936132-1	F2306192403	06/19/24 11:02
WG1936132-2LCS	WG1936132-2	F2306192404	06/19/24 11:21
WG1936132-3LCSD	WG1936132-3	F2306192405	06/19/24 11:41
EB_06132024	L2433375-01	F2306192411	06/19/24 13:43
DUP_06132024	L2433375-02	F2306192412	06/19/24 14:04
PZ-5	L2433375-03	F2306192413	06/19/24 14:25
MW-5D	L2433375-04	F2306192414	06/19/24 14:46
WG1936132-4MS	WG1936132-4	F2306192415	06/19/24 15:07
WG1936132-5MSD	WG1936132-5	F2306192416	06/19/24 15:28
MW-12S	L2433375-05	F2306192417	06/19/24 15:50
MW-12D	L2433375-06	F2306192418	06/19/24 16:12
MW-4D2	L2433375-08	F2306192419	06/19/24 16:33
MW-4S	L2433375-07	F2306192420	06/19/24 16:54

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PAH23	**Analysis Date**	: 06/19/24 09:57:00
Sample No	: WG1936462-2	**Lab File ID**	: F2306192402

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1936462-2	30430	7.73				
Upper Limit	60860	8.23				
Lower Limit	15215	7.23				
Sample ID						
WG1936132-1 BLANK	30366	7.76				
WG1936132-2 LCS	29898	7.75				
WG1936132-3 LCSD	29803	7.75				
EB_06132024	30345	7.75				
DUP_06132024	30005	7.75				
PZ-5	30411	7.74				
MW-5D	30339	7.74				
MW-5D MS	30443	7.73				
MW-5D MSD	30372	7.72				
MW-12S	30450	7.72				
MW-12D	30607	7.72				
MW-4D2	30356	7.75				
MW-4S	30545	7.74				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12118-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	8	2.04	ug/kg	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ug/kg								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 13:43
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192411	**Analyst**	: CSP
Sample Amount	: 250 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	33.9	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:04
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192412	**Analyst**	: CSP
Sample Amount	: 265 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	142	32.0	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:25
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192413	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	33.2	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:46
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192414	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	819.	147	33.2	

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:50
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192417	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	33.2	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:12
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192418	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	1460	147	33.2	

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:54
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192420	**Analyst**	: CSP
Sample Amount	: 250 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	33.9	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:33
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192419	**Analyst**	: CSP
Sample Amount	: 265 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	93.5	142	32.0	J

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936132-1	**Date Collected**	: NA
Client ID	: WG1936132-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 11:02
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F2306192403	**Analyst**	: CSP
Sample Amount	: 250 ml	**Instrument ID**	: PAH23
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	33.9	U

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192411.D
Acq On : 19 Jun 2024 01:43 pm
Operator : PAH23:CSP
Sample : l2433375-01,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 20 07:57:03 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.405	64	5729	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.747	152	30345	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.405	64	5729	206.733	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 41.35%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

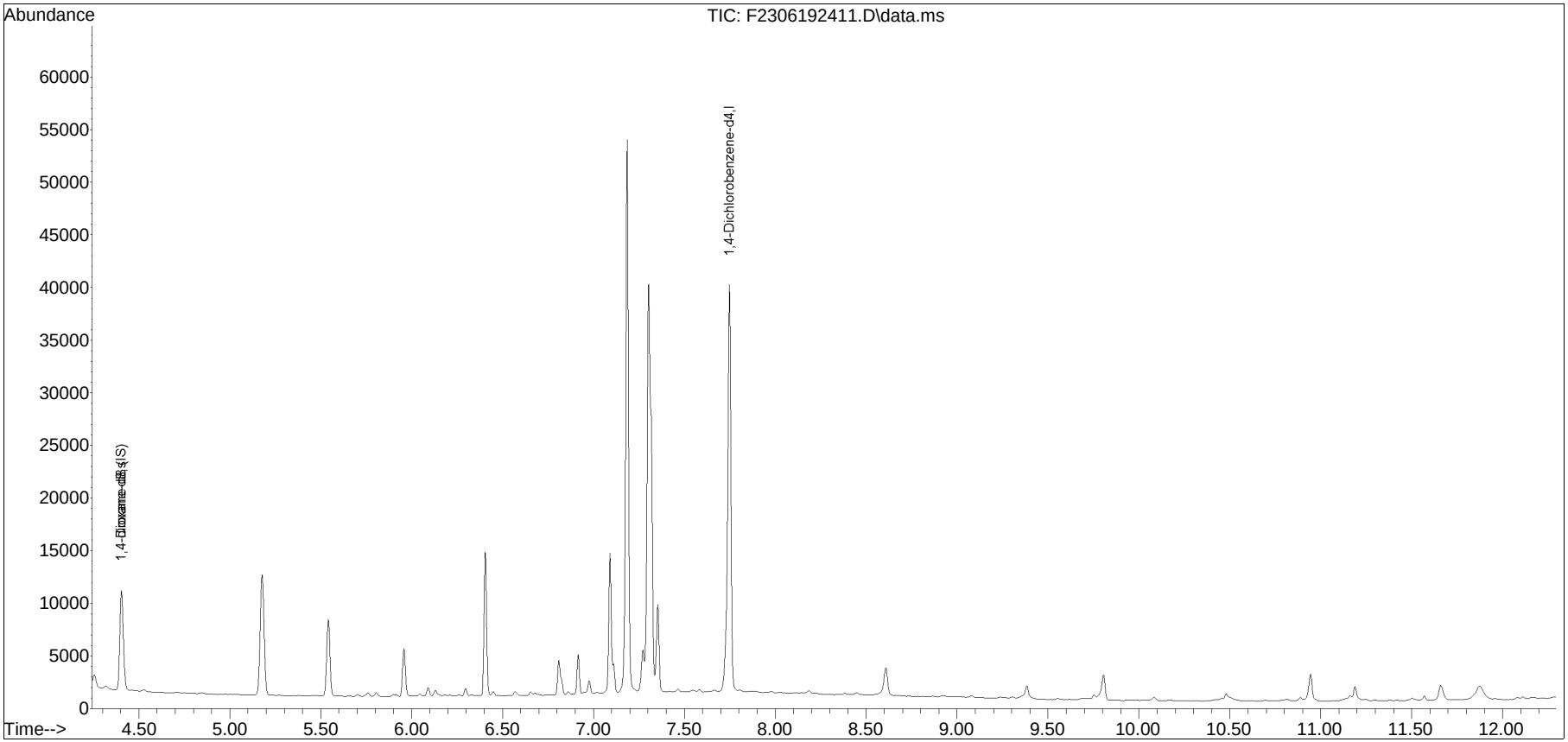
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192411.D
Acq On : 19 Jun 2024 01:43 pm
Operator : PAH23:CSP
Sample : l2433375-01,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 20 07:57:03 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192411.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 1:43 pm	Instrument	: PAH23
Sample	: l2433375-01,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192412.D
Acq On : 19 Jun 2024 02:04 pm
Operator : PAH23:CSP
Sample : l2433375-02,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 07:57:05 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.401	64	5157	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.754	152	30005	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.401	64	5157	188.201	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 37.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

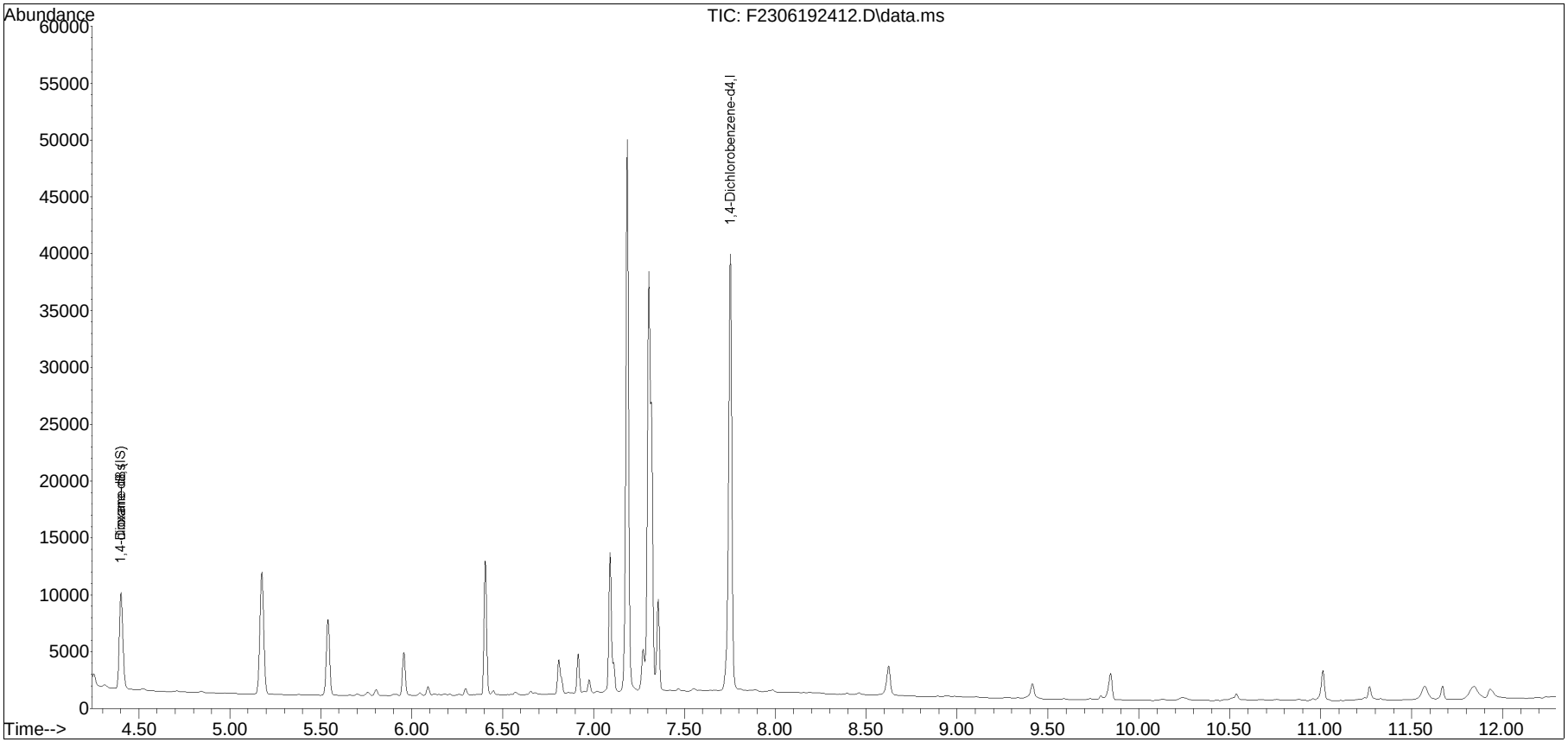
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192412.D
Acq On : 19 Jun 2024 02:04 pm
Operator : PAH23:CSP
Sample : l2433375-02,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 07:57:05 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192412.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 2:04 pm	Instrument	: PAH23
Sample	: l2433375-02,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192413.D
Acq On : 19 Jun 2024 02:25 pm
Operator : PAH23:CSP
Sample : l2433375-03,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 20 07:57:07 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.404	64	5292	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.737	152	30411	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.404	64	5292	190.549	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.11%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

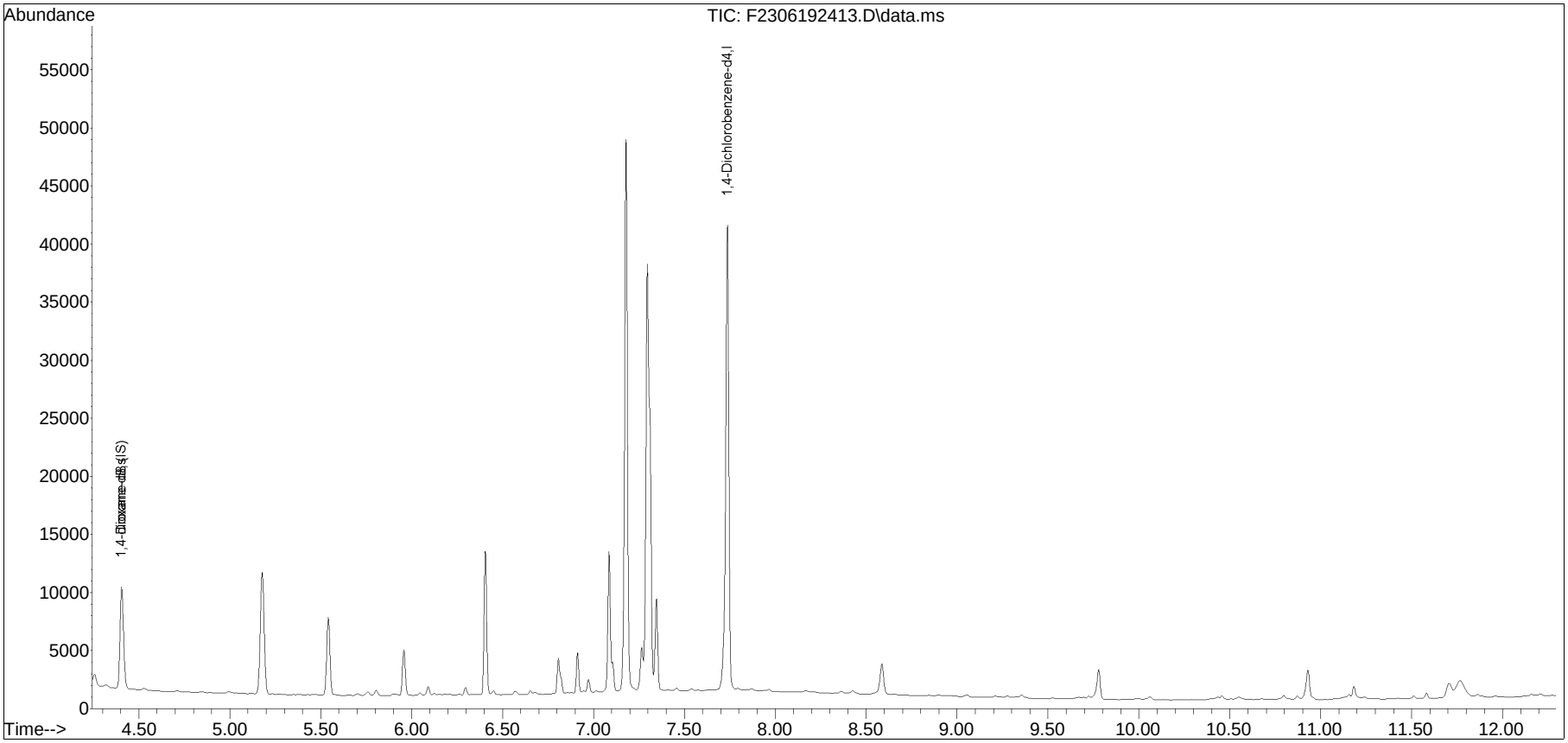
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192413.D
Acq On : 19 Jun 2024 02:25 pm
Operator : PAH23:CSP
Sample : l2433375-03,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 20 07:57:07 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192413.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 2:25 pm	Instrument	: PAH23
Sample	: l2433375-03,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192414.D
Acq On : 19 Jun 2024 02:46 pm
Operator : PAH23:CSP
Sample : l2433375-04,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 20 07:57:09 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.398	64	5596	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.744	152	30339	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.398	64	5596	201.974	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 40.39%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.450	88	1084	83.523	ng/mL	94

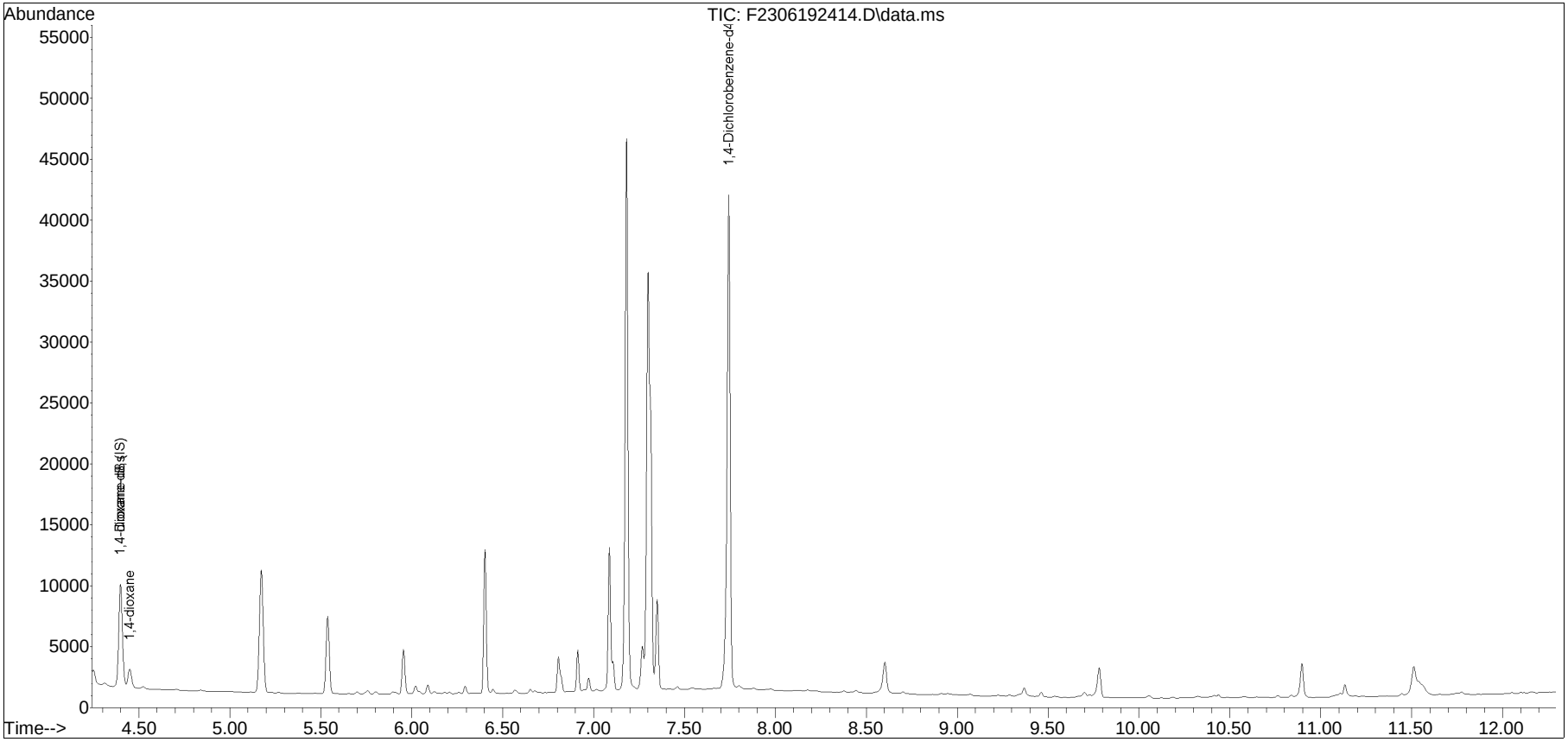
(#) = qualifier out of range (m) = manual integration (+) = signals summed

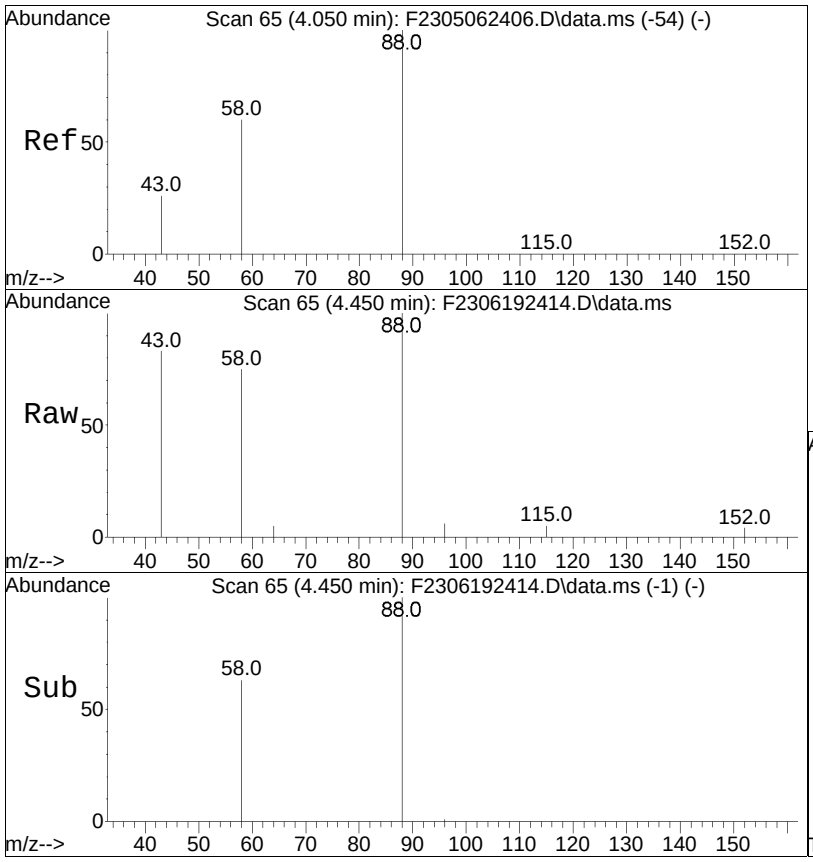
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192414.D
Acq On : 19 Jun 2024 02:46 pm
Operator : PAH23:CSP
Sample : l2433375-04,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 20 07:57:09 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

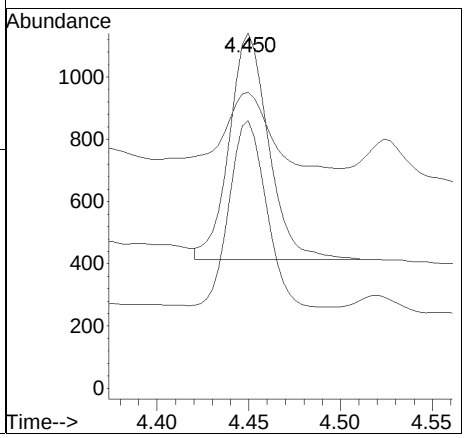




#2
1,4-dioxane
Concen: 83.52 ng/mL
RT: 4.450 min Scan# 65
Delta R.T. 0.016 min
Lab File: F2306192414.D
Acq: 19 Jun 2024 02:46 pm

Tgt Ion: 88 Resp: 1084

Ion	Ratio	Lower	Upper
88	100		
58	79.3	68.0	102.0
43	31.5	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192414.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 2:46 pm	Instrument	: PAH23
Sample	: l2433375-04,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192417.D
Acq On : 19 Jun 2024 03:50 pm
Operator : PAH23:CSP
Sample : l2433375-05,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 20 07:57:15 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.401	64	5398	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.721	152	30450	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.401	64	5398	194.117	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

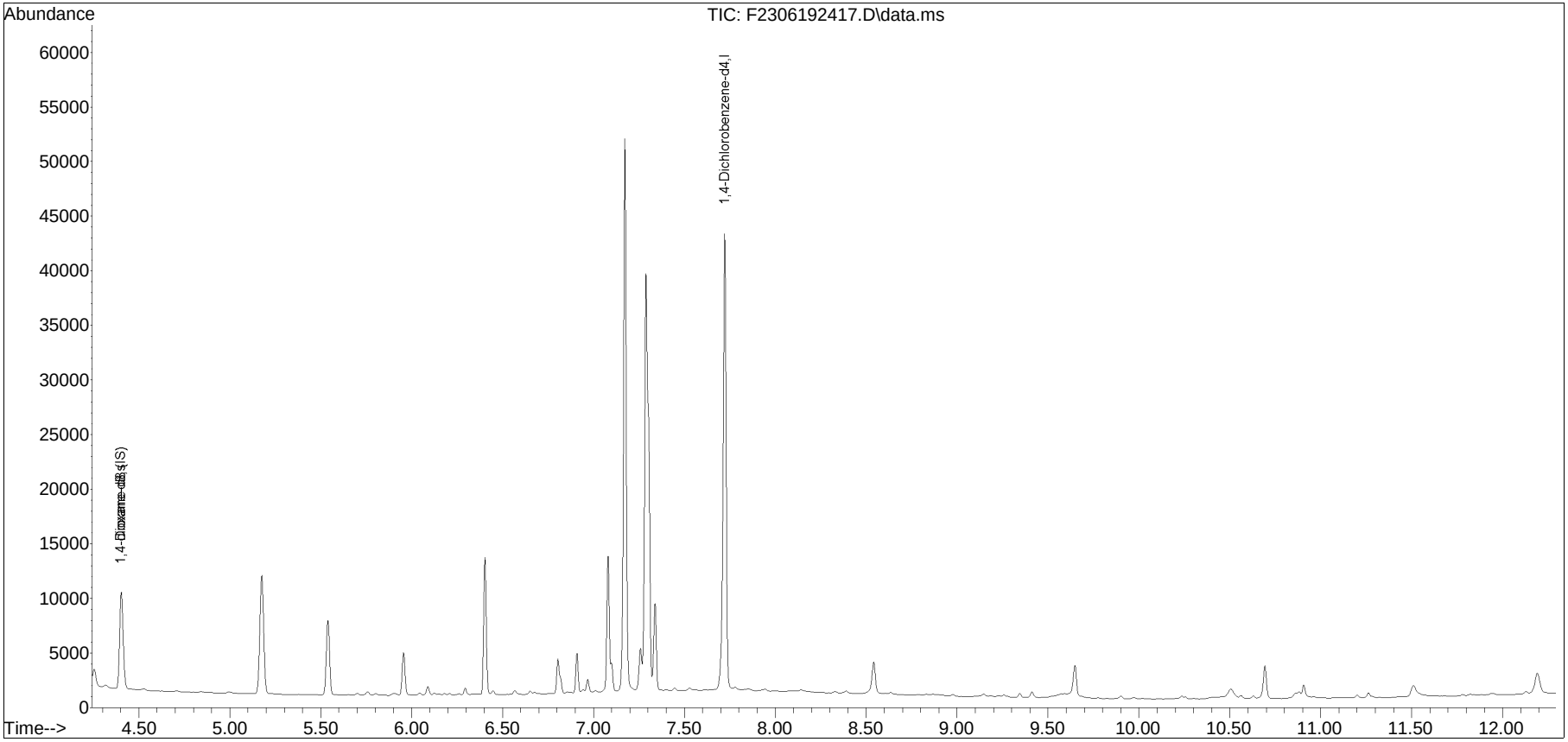
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192417.D
Acq On : 19 Jun 2024 03:50 pm
Operator : PAH23:CSP
Sample : l2433375-05,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 20 07:57:15 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192417.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 3:50 pm	Instrument	: PAH23
Sample	: l2433375-05,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192418.D
Acq On : 19 Jun 2024 04:12 pm
Operator : PAH23:CSP
Sample : l2433375-06,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 20 07:57:17 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.398	64	4999	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.724	152	30607	500.000	ng/mL	-0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.398	64	4999	178.847	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 35.77%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.447	88	1729	149.131	ng/mL	96

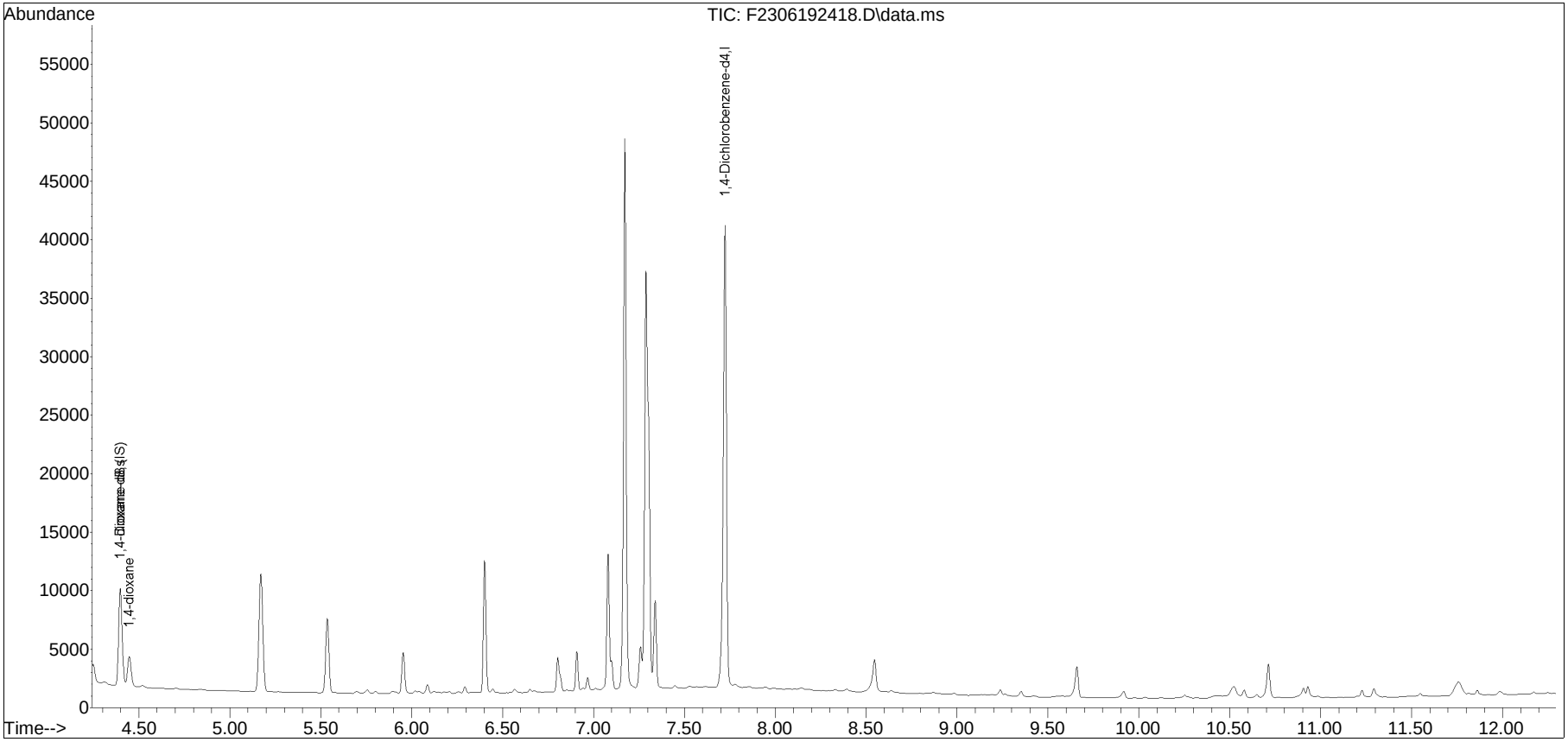
(#) = qualifier out of range (m) = manual integration (+) = signals summed

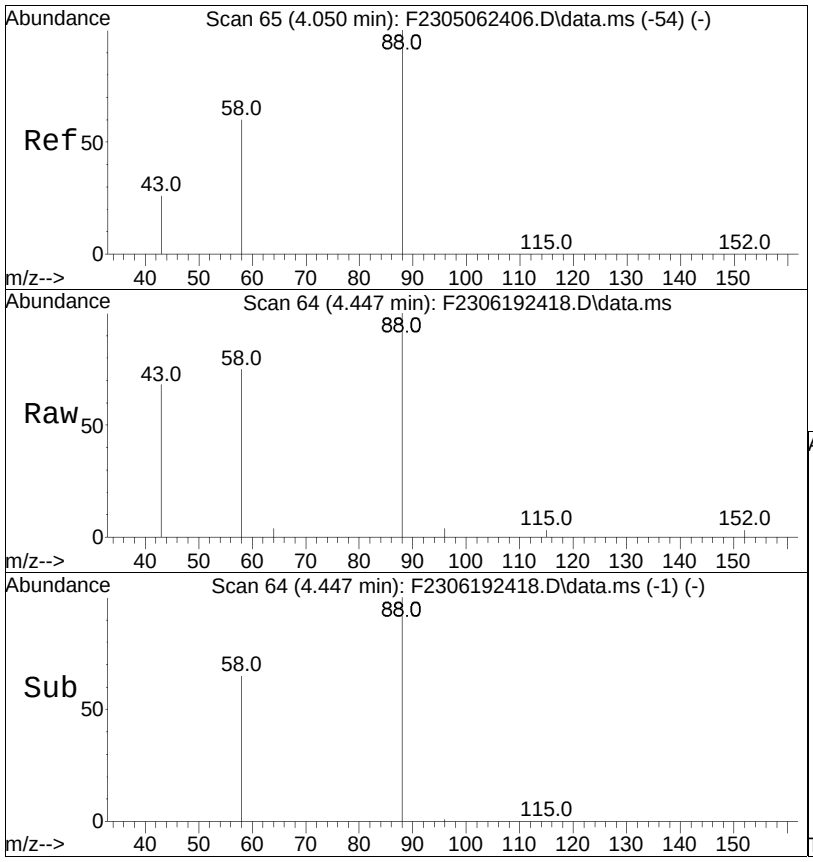
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192418.D
Acq On : 19 Jun 2024 04:12 pm
Operator : PAH23:CSP
Sample : l2433375-06,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 20 07:57:17 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

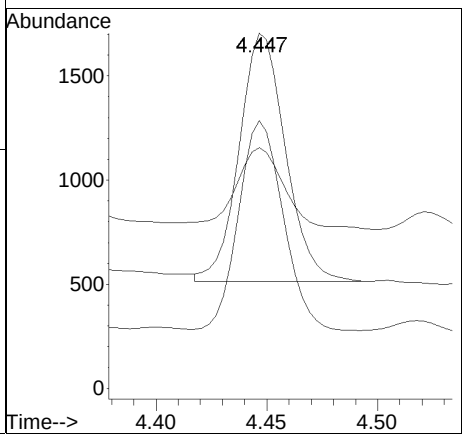




#2
1,4-dioxane
Concen: 149.13 ng/mL
RT: 4.447 min Scan# 64
Delta R.T. 0.013 min
Lab File: F2306192418.D
Acq: 19 Jun 2024 04:12 pm

Tgt Ion: 88 Resp: 1729

Ion	Ratio	Lower	Upper
88	100		
58	82.6	68.0	102.0
43	30.3	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192418.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 4:12 pm	Instrument	: PAH23
Sample	: l2433375-06,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192419.D
Acq On : 19 Jun 2024 04:33 pm
Operator : PAH23:CSP
Sample : l2433375-08,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 20 08:01:00 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.395	64	4831	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.747	152	30356	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.395	64	4831	174.265	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 34.85%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.446	88	111M2	9.907	ng/mL	

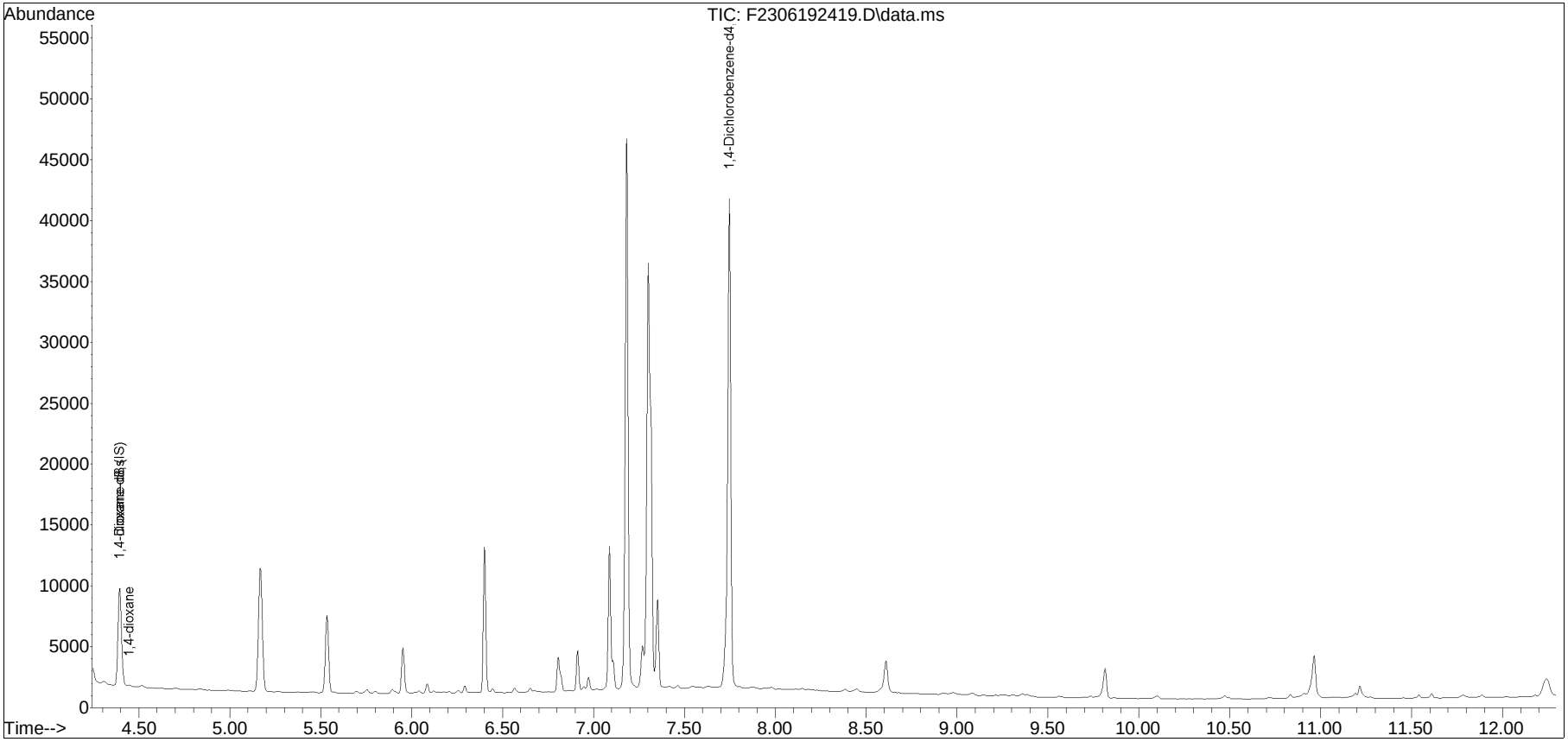
(#) = qualifier out of range (m) = manual integration (+) = signals summed

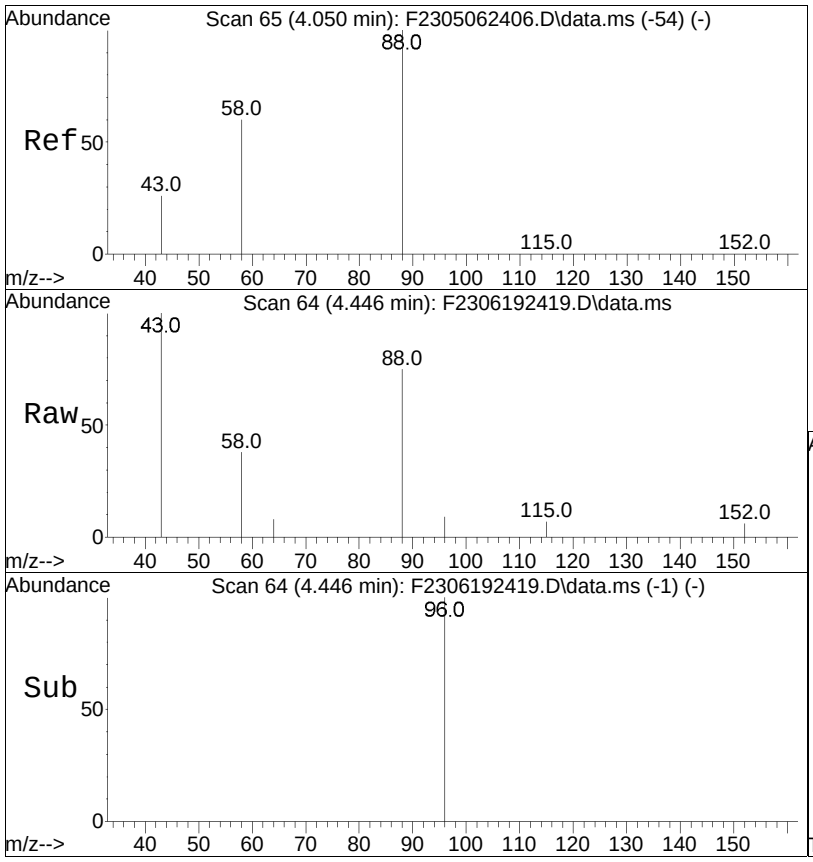
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192419.D
Acq On : 19 Jun 2024 04:33 pm
Operator : PAH23:CSP
Sample : l2433375-08,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 20 08:01:00 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

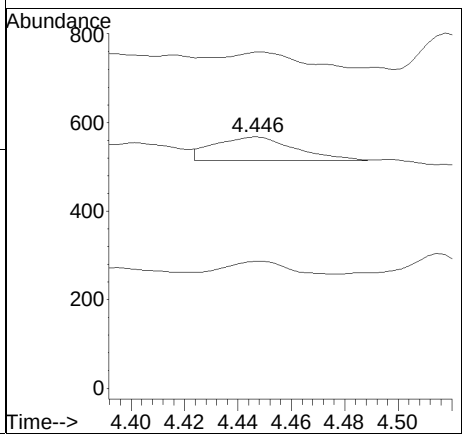




#2
1,4-dioxane
Concen: 9.91 ng/mL M2
RT: 4.446 min Scan# 64
Delta R.T. 0.013 min
Lab File: F2306192419.D
Acq: 19 Jun 2024 04:33 pm

Tgt Ion: 88 Resp: 111

Ion	Ratio	Lower	Upper
88	100		
58	71.2	68.0	102.0
43	35.1	27.7	41.5

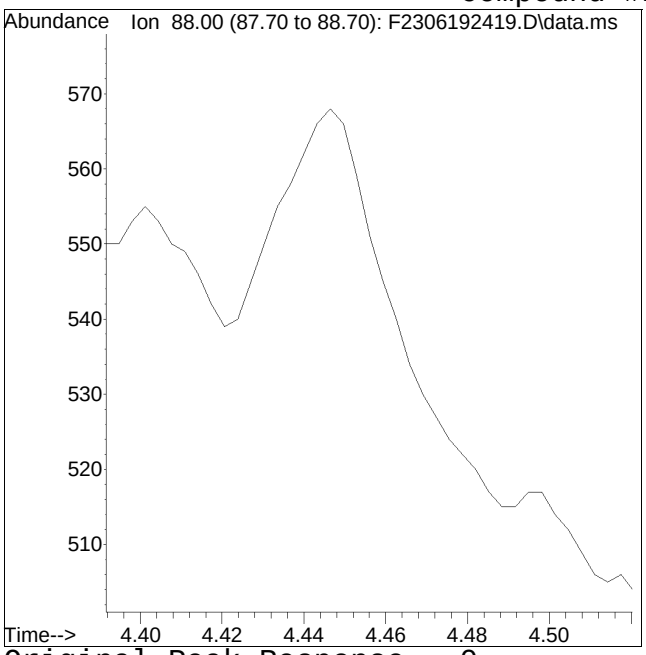


Manual Integration/Negative Proof Report

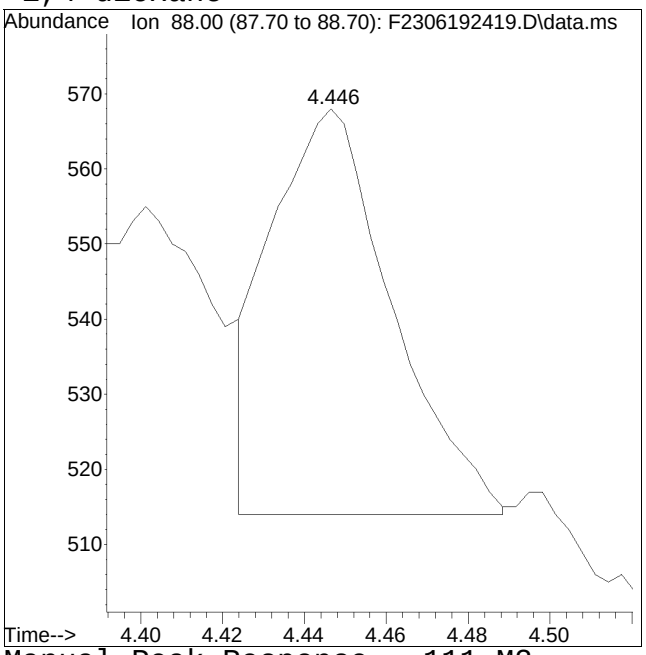
Data Path : O:\Organics\DATA\PAH23\2024Q
Data File : F2306192419.D
Date Inj'd : 6/19/2024 4:33 pm
Sample : l2433375-08,32,,

Method : 14DIOX0610PAH23.M
Operator : PAH23:CSP
Instrument : PAH23
Quant Date : 6/20/2024 7:57 am

Compound #2: 1,4-dioxane



Original Peak Response = 0



Manual Peak Response = 111 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192420.D
Acq On : 19 Jun 2024 04:54 pm
Operator : PAH23:CSP
Sample : l2433375-07,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 07:57:21 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.398	64	5664	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	7.737	152	30545	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.398	64	5664	203.049	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 40.61%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

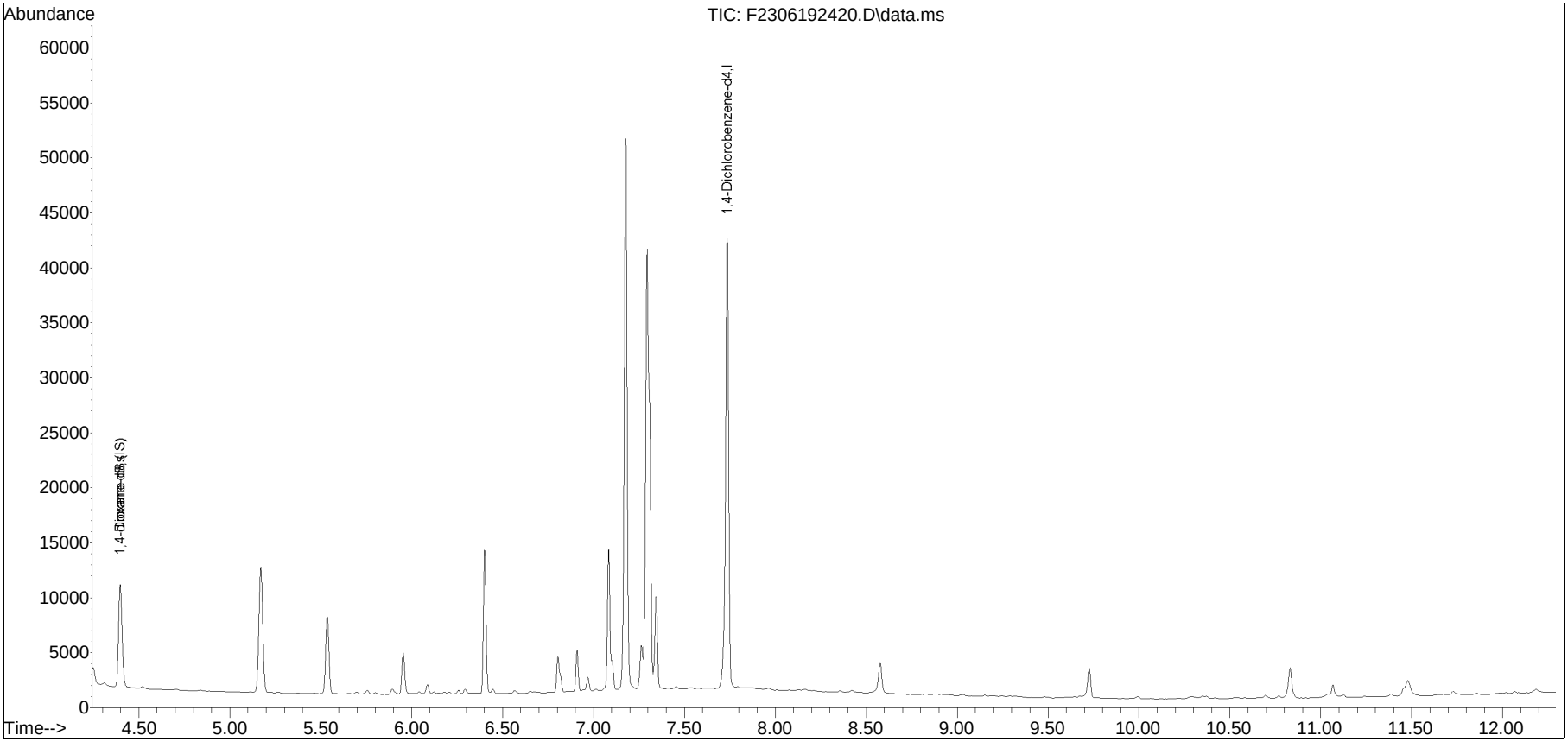
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192420.D
Acq On : 19 Jun 2024 04:54 pm
Operator : PAH23:CSP
Sample : l2433375-07,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 07:57:21 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192420.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 4:54 pm	Instrument	: PAH23
Sample	: l2433375-07,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2433375**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Instrument ID	:	**PAH23**	**Ical Ref**	:	**ICAL21187**
Calibration dates	:	**06/10/24 11:18 06/10/24 16:55**			

Calibration Files
10 =F2306102403.D 50 =F2306102404.D 100 =F2306102405.D 500 =F2306102406.D 1000=F2306102407.D
5000=F2306102408.D 1e04=F2306102409.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.285	1.173	1.145	1.134	1.168	1.121	1.091	1.160	5.34
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.456	0.458	0.461	0.461	0.448	0.451	0.460	0.457	1.15

Response Factor Report PAH23

Method Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Method File : 14DIOX0610PAH23.M
Title : Semivolatiles by GC/MS
Last Update : Wed Jun 12 08:41:51 2024
Response Via : Initial Calibration

Calibration Files
10 =F2306102403.D 50 =F2306102404.D 100 =F2306102405.D 500 =F2306102406.D 1000=F2306102407.D
5000=F2306102408.D 1e04=F2306102409.D

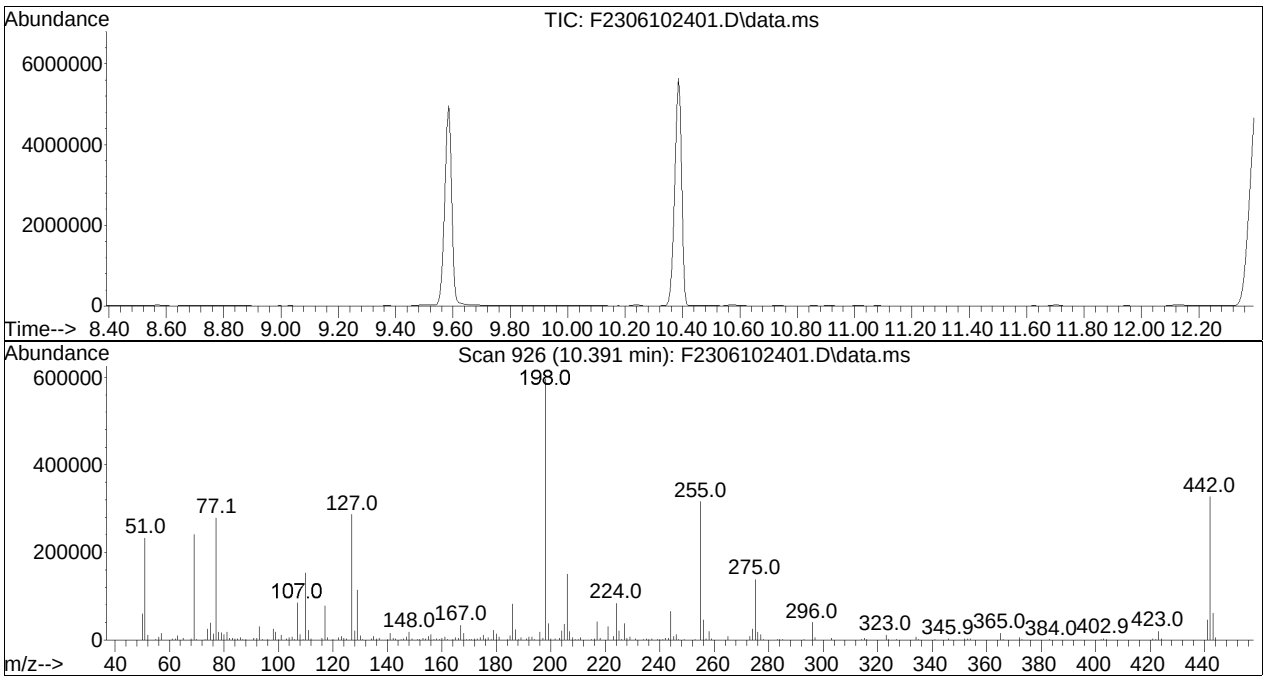
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.285	1.173	1.145	1.134	1.168	1.121	1.091	1.160	5.34
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.456	0.458	0.461	0.461	0.448	0.451	0.460	0.457	1.15

(#) = Out of Range

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102401.D
Acq On : 10 Jun 2024 09:51 am
Operator : PAH23:CSP
Sample : T2306102401
Misc : WG1933297,MSBT75
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Title : Semivolatiles by GC/MS
Last Update : Wed Jun 12 08:41:51 2024



Spectrum Information: Scan 926

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.0	232512	PASS
68	69	0.00	2	1.7	4014	PASS
70	69	0.00	2	0.6	1342	PASS
127	198	10	80	48.1	286592	PASS
197	198	0.00	2	0.7	3884	PASS
198	198	100	100	100.0	596352	PASS
199	198	5	9	6.5	38488	PASS
275	198	10	60	23.2	138432	PASS
365	198	1	100	2.8	16504	PASS
441	442	0.01	24	14.4	46984	PASS
442	198	50	100	54.8	326720	PASS
443	442	15	24	19.0	61976	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102403.D
Acq On : 10 Jun 2024 11:18 am
Operator : PAH23:CSP
Sample : I2306102401
Misc : WG1933297,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 12 08:42:24 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.519	64	15137	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.823	152	33191	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.519	64	15137	499.387	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.88%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.580	88	389	11.081	ng/mL	91

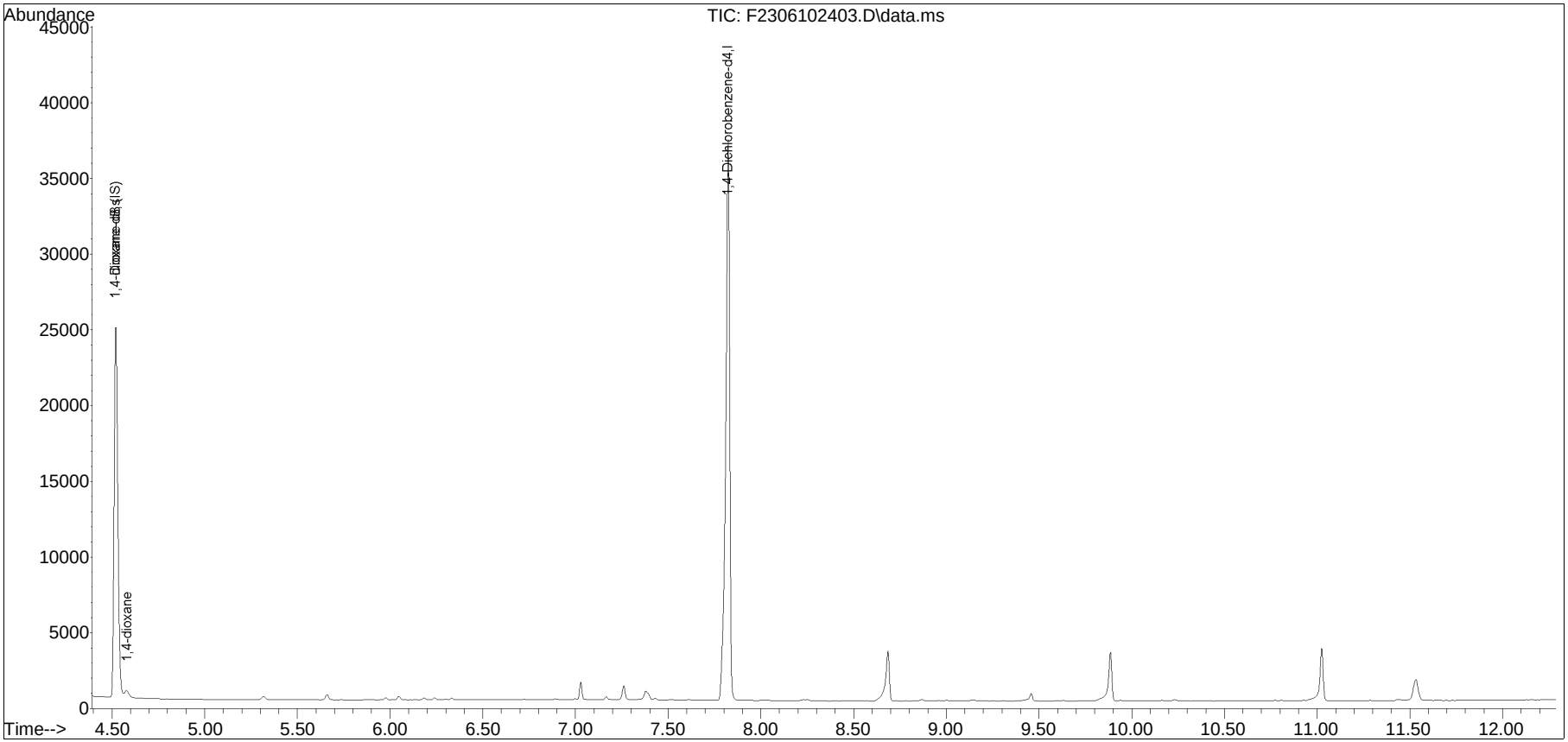
(#) = qualifier out of range (m) = manual integration (+) = signals summed

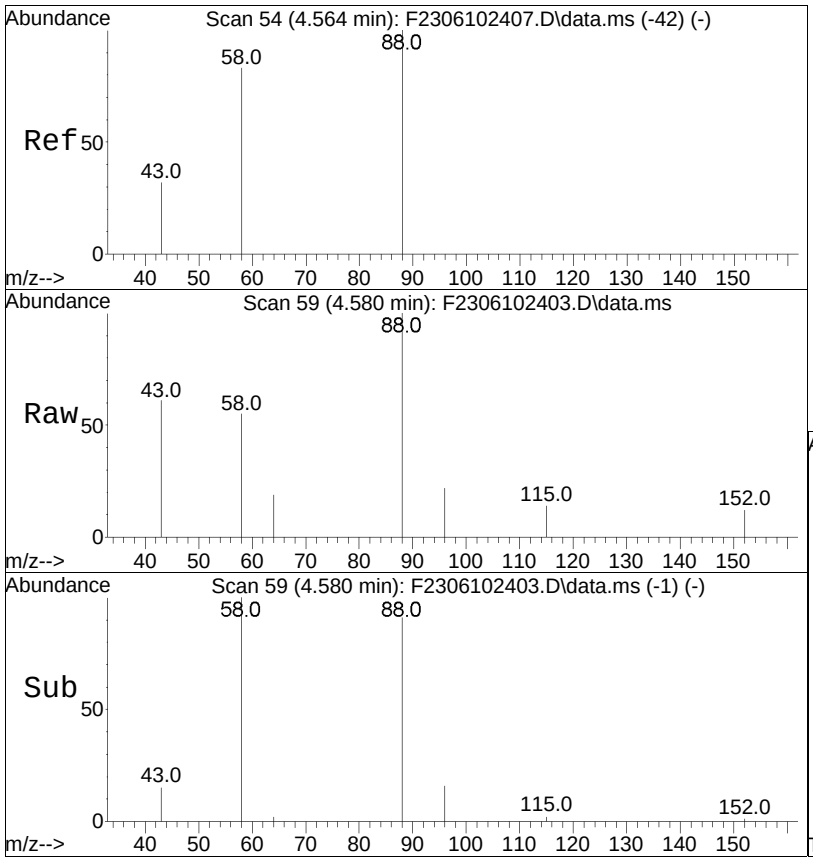
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102403.D
Acq On : 10 Jun 2024 11:18 am
Operator : PAH23:CSP
Sample : I2306102401
Misc : WG1933297,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 12 08:42:24 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

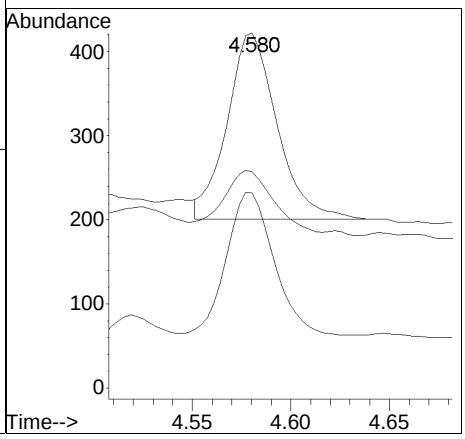




#2
1,4-dioxane
Concen: 11.08 ng/mL
RT: 4.580 min Scan# 59
Delta R.T. 0.016 min
Lab File: F2306102403.D
Acq: 10 Jun 2024 11:18 am

Tgt Ion: 88 Resp: 389

Ion	Ratio	Lower	Upper
88	100		
58	74.3	68.0	102.0
43	33.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102403.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 11:18 am	Instrument	: PAH23
Sample	: I2306102401	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102404.D
Acq On : 10 Jun 2024 03:06 pm
Operator : PAH23:CSP
Sample : I2306102402
Misc : WG1933297,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 08:42:27 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.516	64	15274	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.826	152	33328	500.000	ng/mL	0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.516	64	15274	501.836	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.37%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.571	88	1792	50.587	ng/mL	97

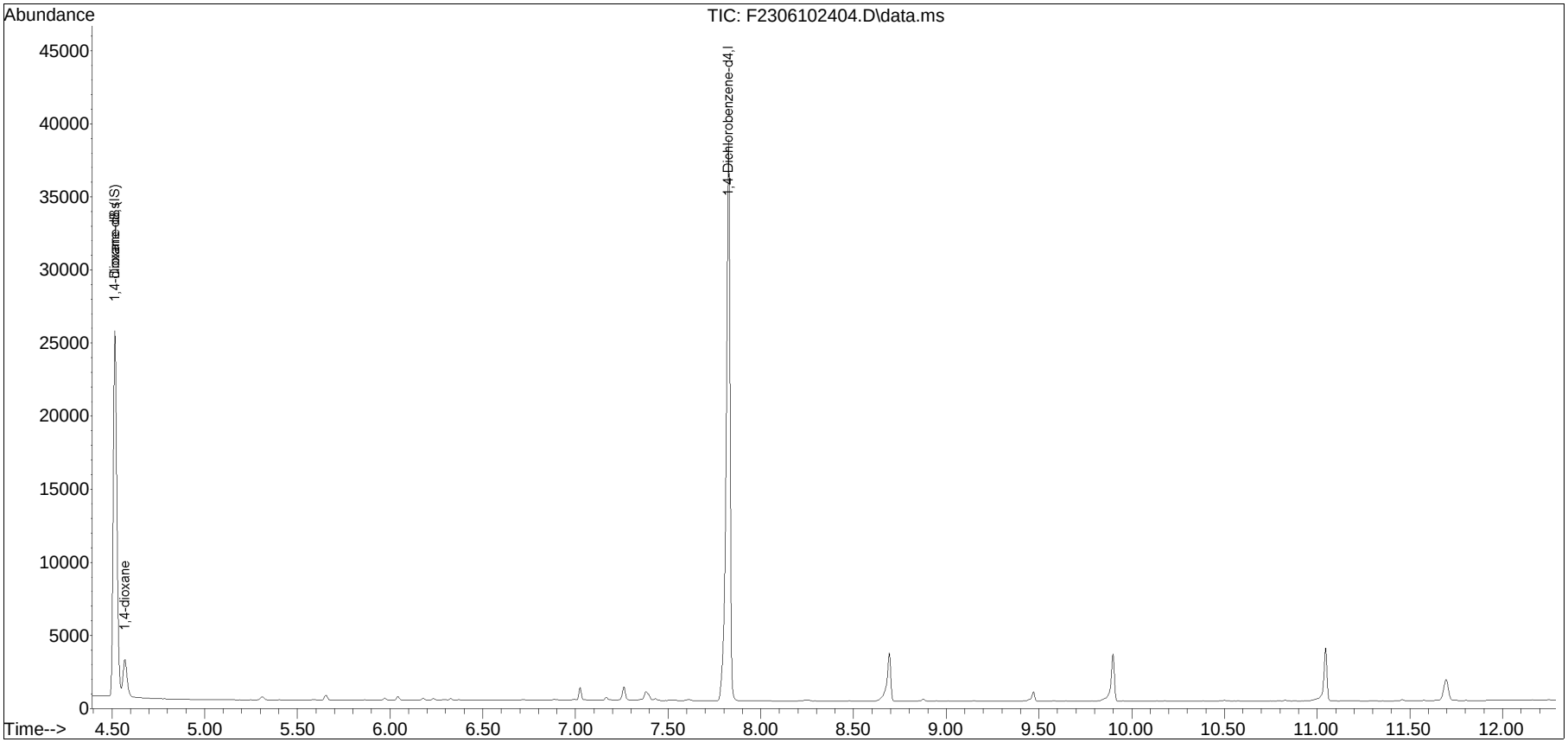
(#) = qualifier out of range (m) = manual integration (+) = signals summed

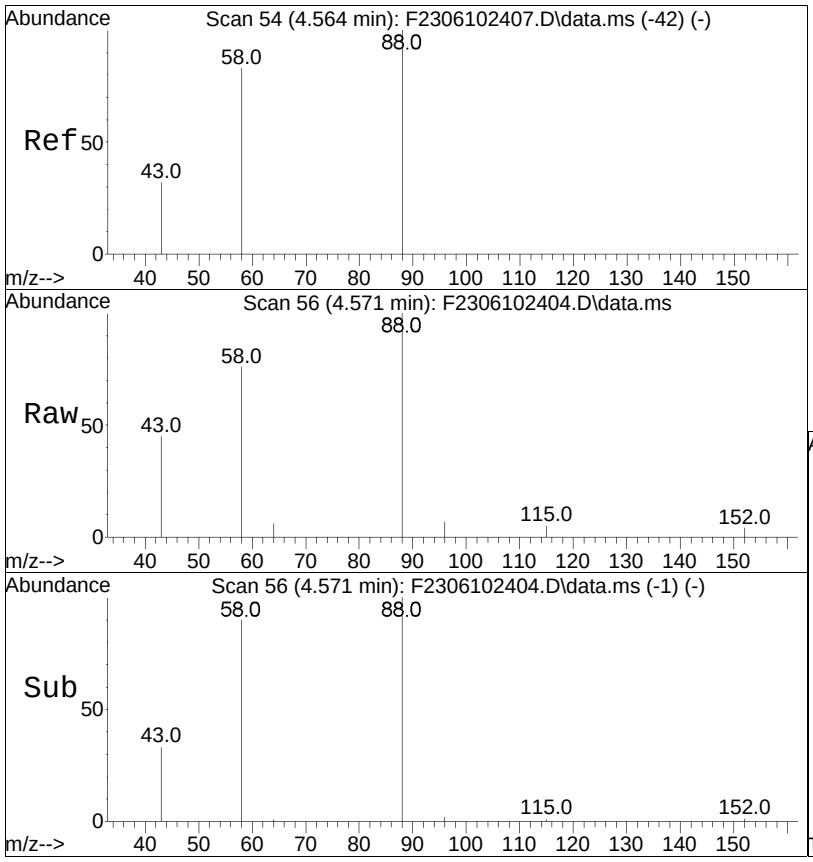
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102404.D
Acq On : 10 Jun 2024 03:06 pm
Operator : PAH23:CSP
Sample : I2306102402
Misc : WG1933297,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 08:42:27 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

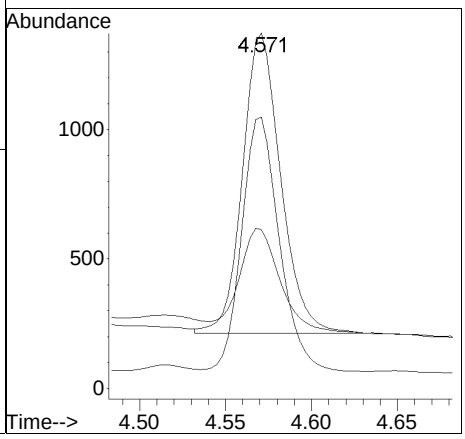




#2
1,4-dioxane
Concen: 50.59 ng/mL
RT: 4.571 min Scan# 56
Delta R.T. 0.007 min
Lab File: F2306102404.D
Acq: 10 Jun 2024 03:06 pm

Tgt Ion: 88 Resp: 1792

Ion	Ratio	Lower	Upper
88	100		
58	83.9	68.0	102.0
43	38.3	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102404.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 3:06 pm	Instrument	: PAH23
Sample	: I2306102402	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102405.D
Acq On : 10 Jun 2024 03:27 pm
Operator : PAH23:CSP
Sample : I2306102403
Misc : WG1933297,MSBT56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 08:42:30 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.516	64	15159	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.816	152	32855	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.516	64	15159	505.228	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.05%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.571	88	3471	98.728	ng/mL	99

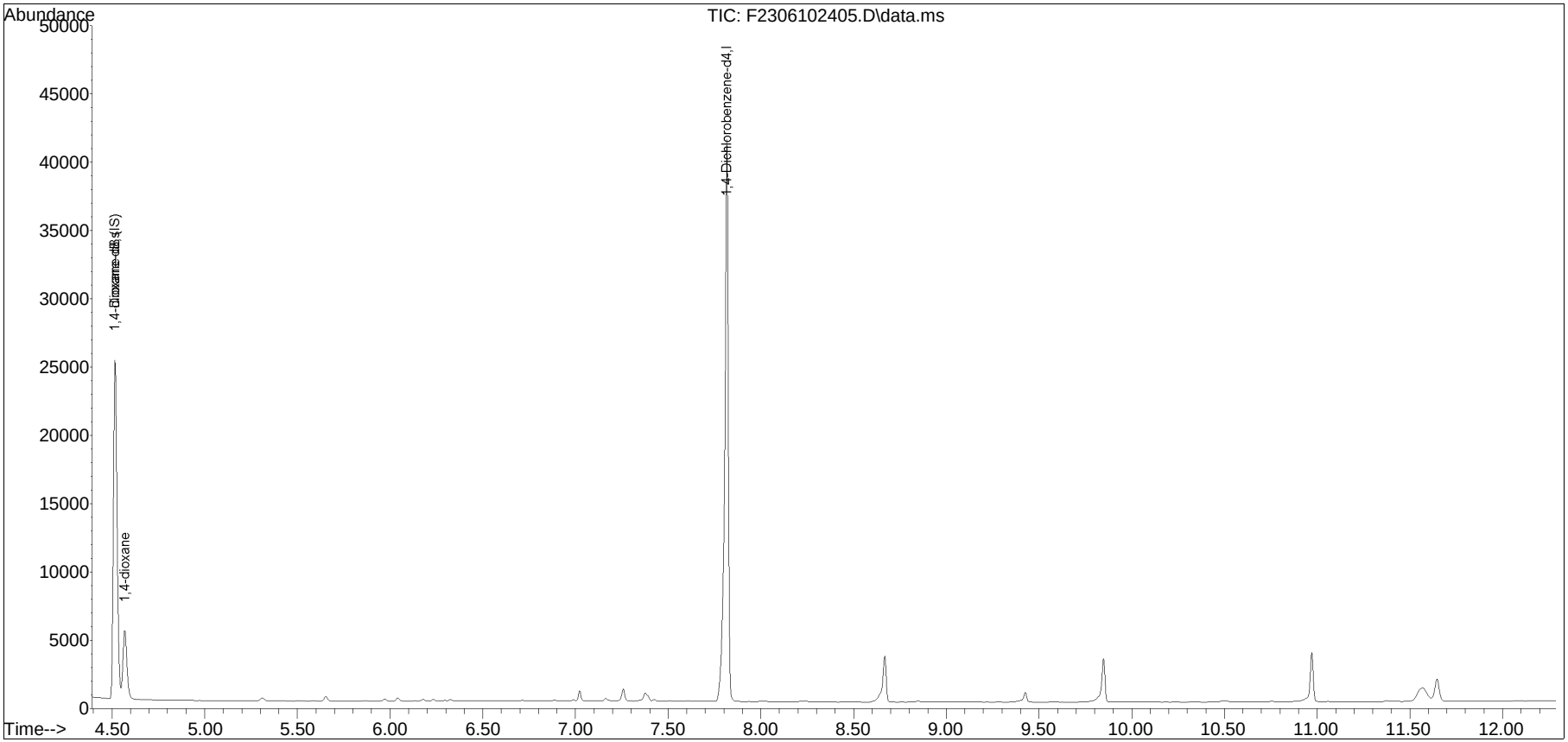
(#) = qualifier out of range (m) = manual integration (+) = signals summed

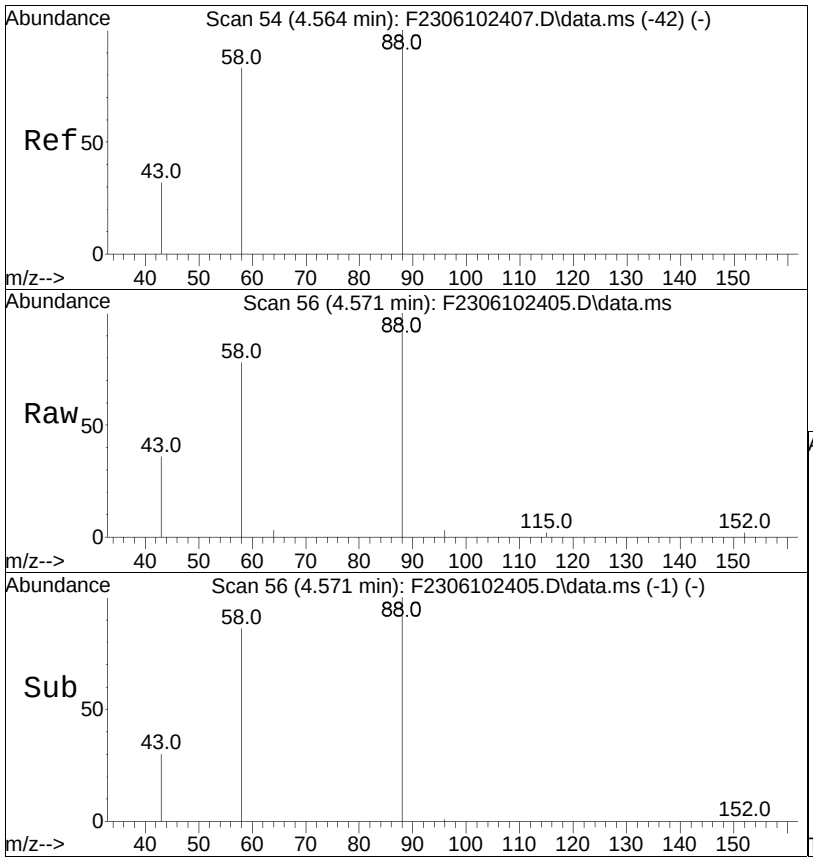
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102405.D
Acq On : 10 Jun 2024 03:27 pm
Operator : PAH23:CSP
Sample : I2306102403
Misc : WG1933297,MSBT56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 08:42:30 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

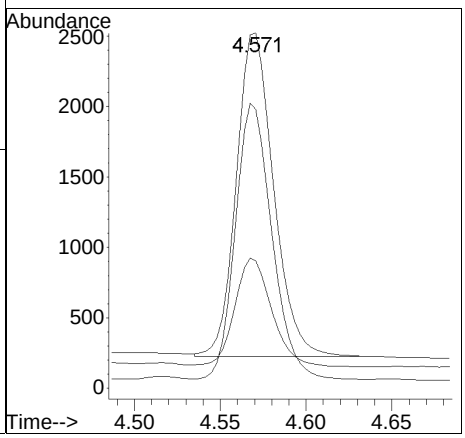




#2
1,4-dioxane
Concen: 98.73 ng/mL
RT: 4.571 min Scan# 56
Delta R.T. 0.007 min
Lab File: F2306102405.D
Acq: 10 Jun 2024 03:27 pm

Tgt Ion: 88 Resp: 3471

Ion	Ratio	Lower	Upper
88	100		
58	83.7	68.0	102.0
43	33.7	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102405.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 3:27 pm	Instrument	: PAH23
Sample	: I2306102403	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102406.D
Acq On : 10 Jun 2024 03:49 pm
Operator : PAH23:CSP
Sample : I2306102404
Misc : WG1933297,MSBT57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 08:42:33 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.516	64	15154	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.810	152	32864	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.516	64	15154	504.923	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.564	88	17181	488.852	ng/mL	99

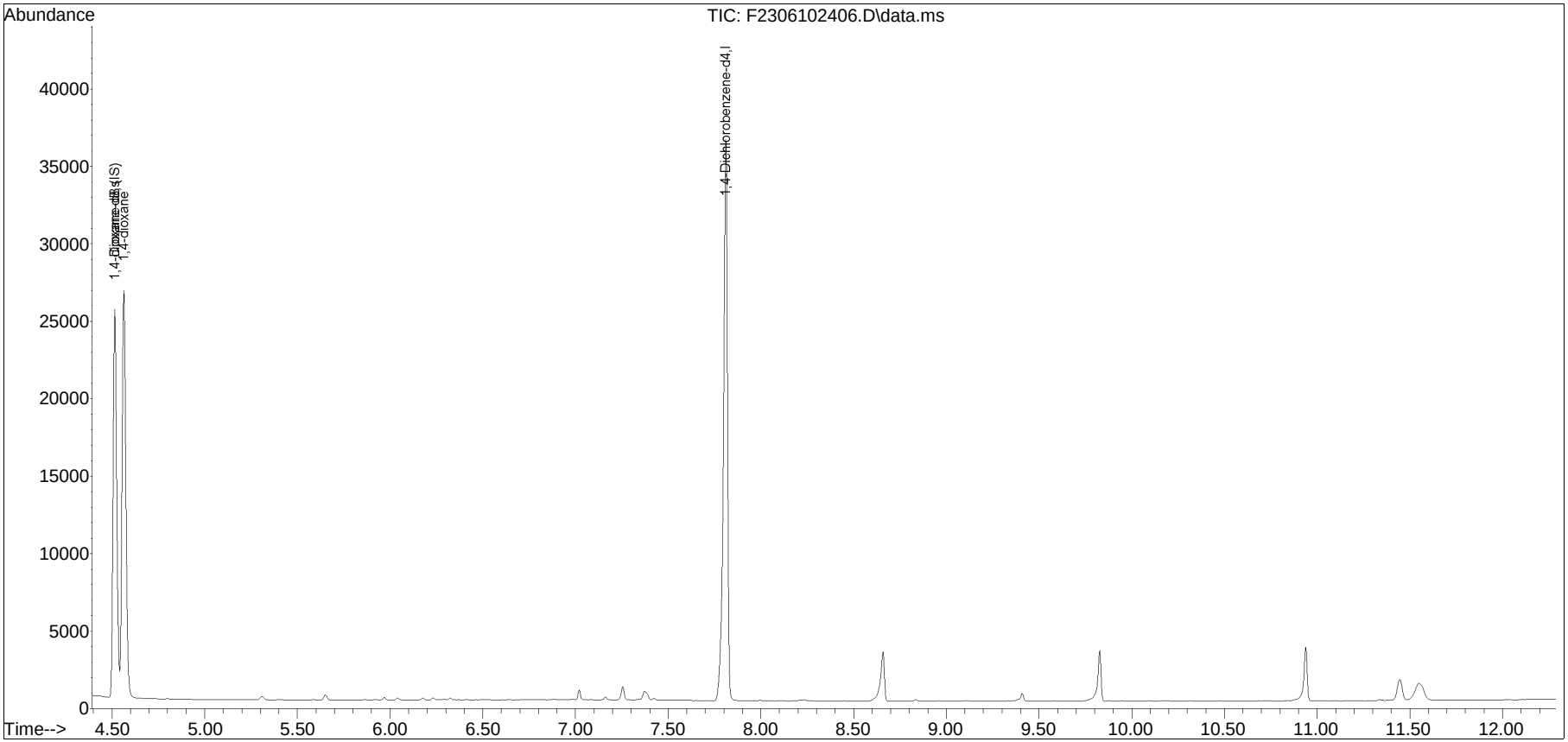
(#) = qualifier out of range (m) = manual integration (+) = signals summed

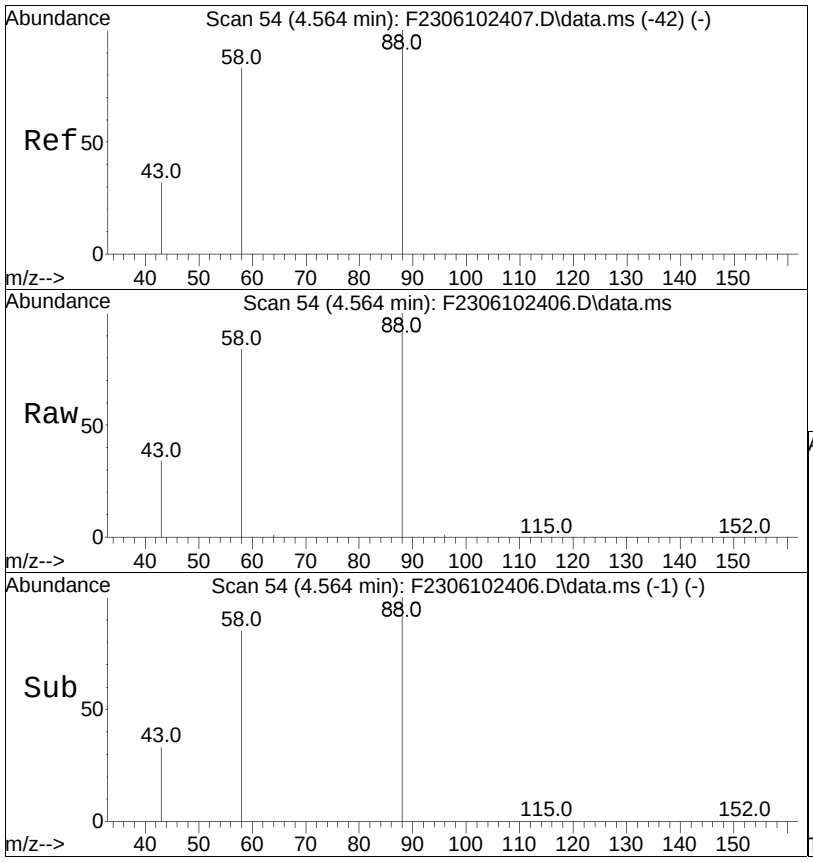
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102406.D
Acq On : 10 Jun 2024 03:49 pm
Operator : PAH23:CSP
Sample : I2306102404
Misc : WG1933297,MSBT57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 08:42:33 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

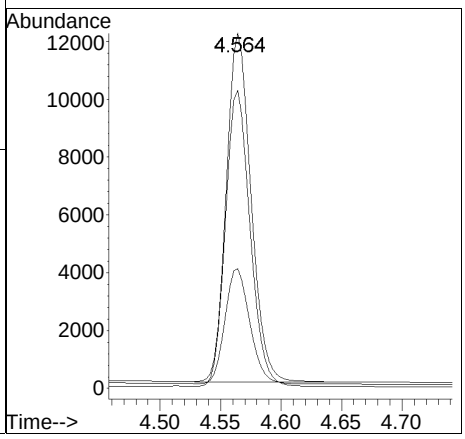




#2
1,4-dioxane
Concen: 488.85 ng/mL
RT: 4.564 min Scan# 54
Delta R.T. 0.000 min
Lab File: F2306102406.D
Acq: 10 Jun 2024 03:49 pm

Tgt Ion: 88 Resp: 17181

Ion	Ratio	Lower	Upper
88	100		
58	84.4	68.0	102.0
43	33.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102406.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 3:49 pm	Instrument	: PAH23
Sample	: I2306102404	Quant Date	: 6/12/2024 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102407.D
Acq On : 10 Jun 2024 04:11 pm
Operator : PAH23:CSP
Sample : I2306102405
Misc : WG1933297,MSBT58
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 08:43:04 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.512	64	15027	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.813	152	33426	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.512	64	15027	492.273	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.45%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.564	88	35214	1010.414	ng/mL	99

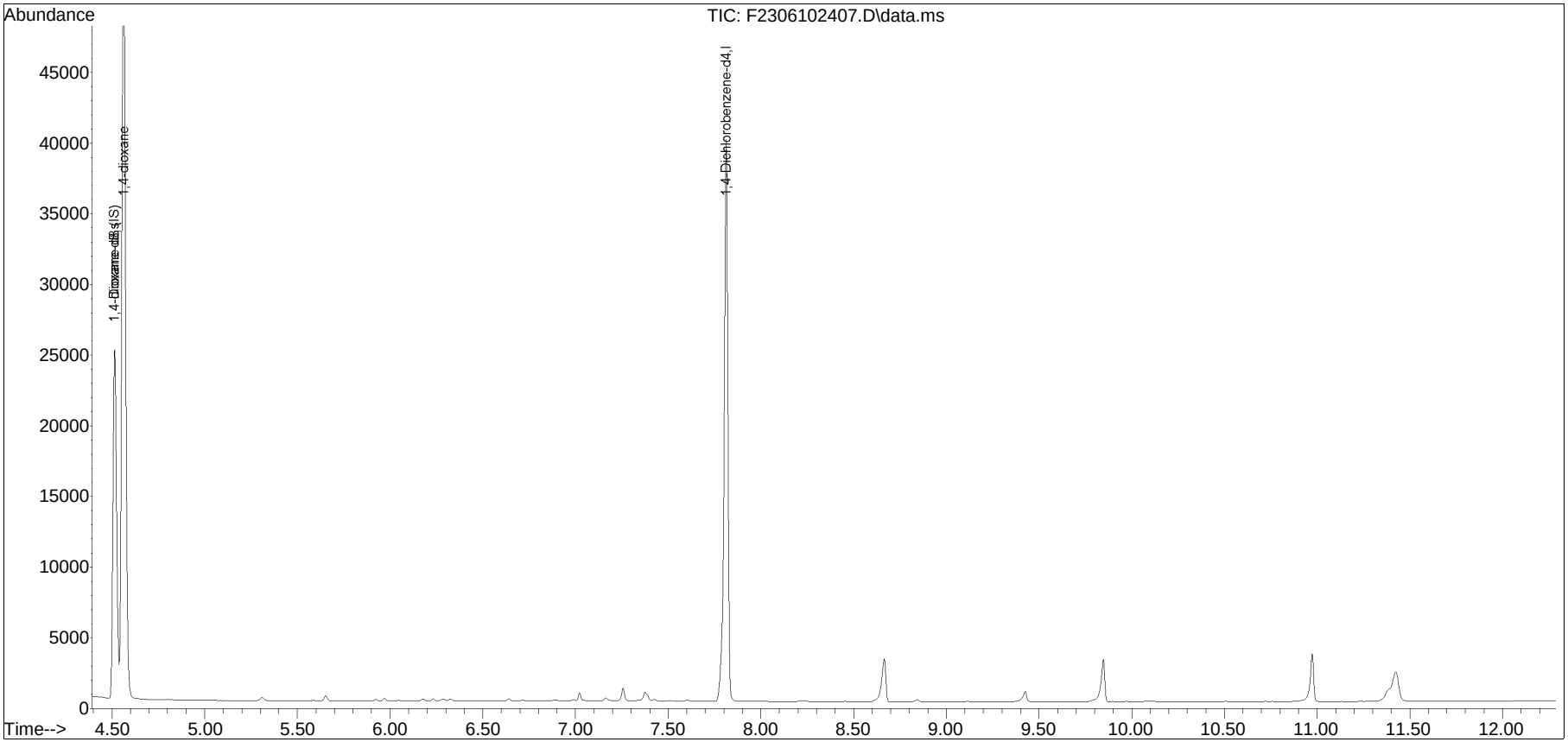
(#) = qualifier out of range (m) = manual integration (+) = signals summed

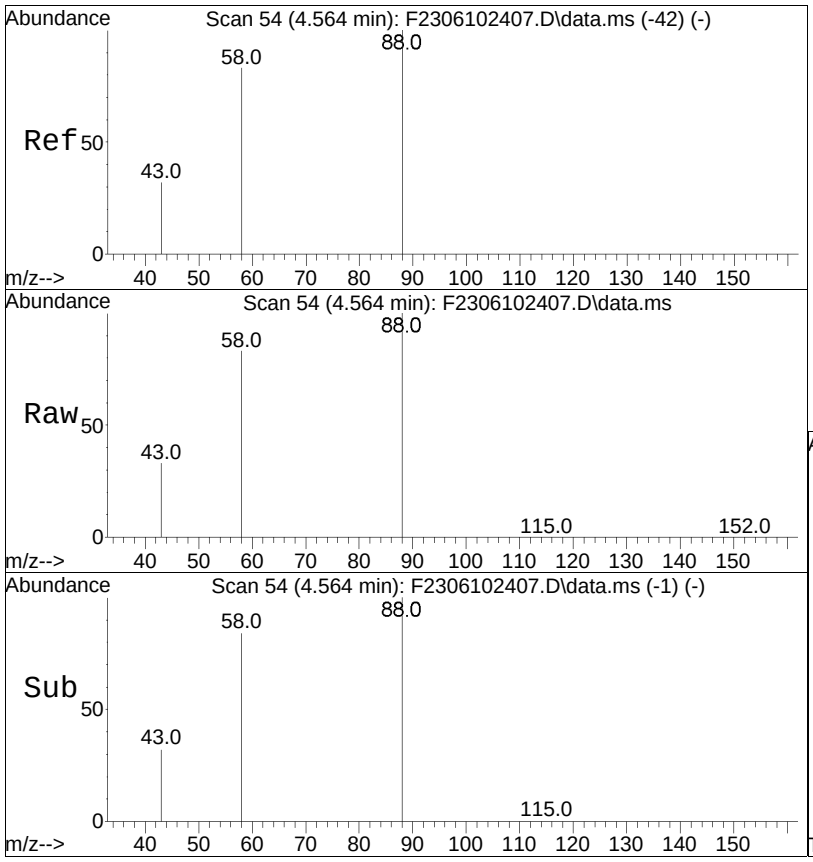
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102407.D
Acq On : 10 Jun 2024 04:11 pm
Operator : PAH23:CSP
Sample : I2306102405
Misc : WG1933297,MSBT58
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 08:43:04 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

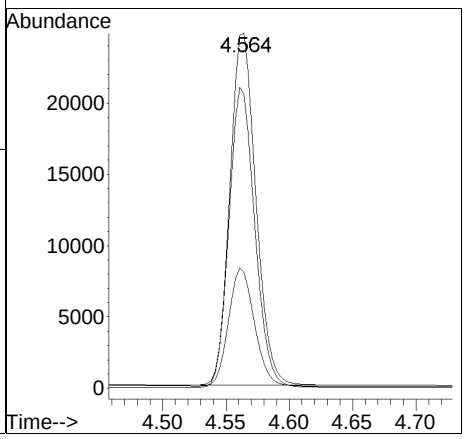




#2
1,4-dioxane
Concen: 1010.41 ng/mL
RT: 4.564 min Scan# 54
Delta R.T. 0.000 min
Lab File: F2306102407.D
Acq: 10 Jun 2024 04:11 pm

Tgt Ion: 88 Resp: 35214

Ion	Ratio	Lower	Upper
88	100		
58	84.4	68.0	102.0
43	33.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102407.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 4:11 pm	Instrument	: PAH23
Sample	: I2306102405	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102408.D
Acq On : 10 Jun 2024 04:33 pm
Operator : PAH23:CSP
Sample : I2306102406
Misc : WG1933297,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 12 08:43:26 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.513	64	14901	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.813	152	33050	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.513	64	14901	493.699	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.561	88	167048	4833.725	ng/mL	100

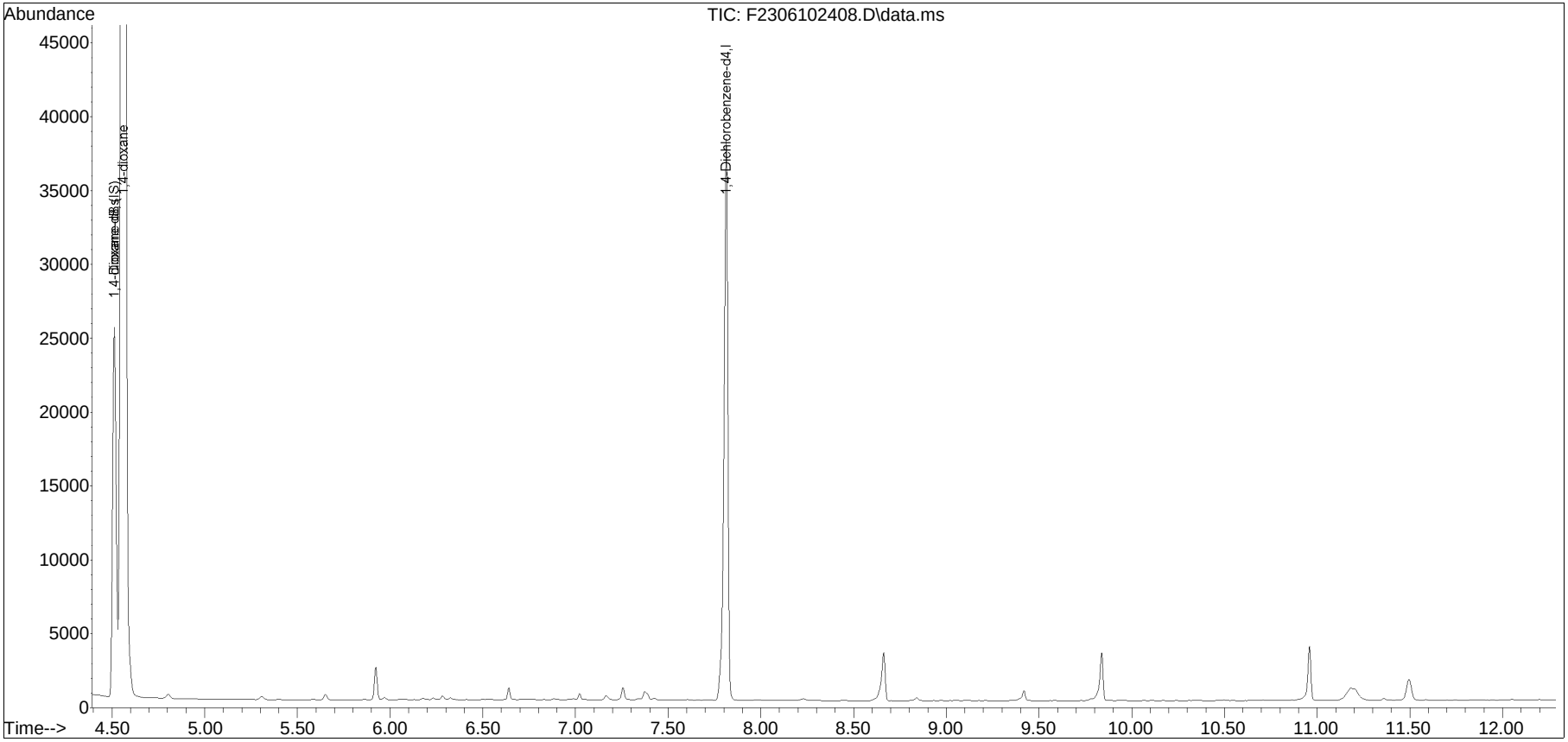
(#) = qualifier out of range (m) = manual integration (+) = signals summed

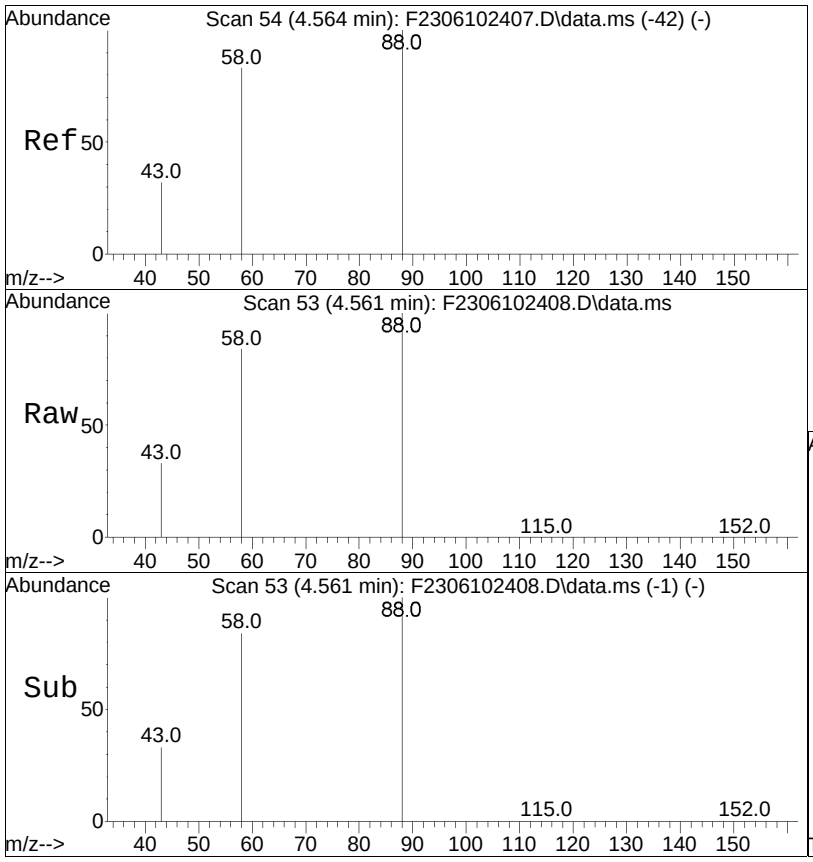
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102408.D
Acq On : 10 Jun 2024 04:33 pm
Operator : PAH23:CSP
Sample : I2306102406
Misc : WG1933297,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 12 08:43:26 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

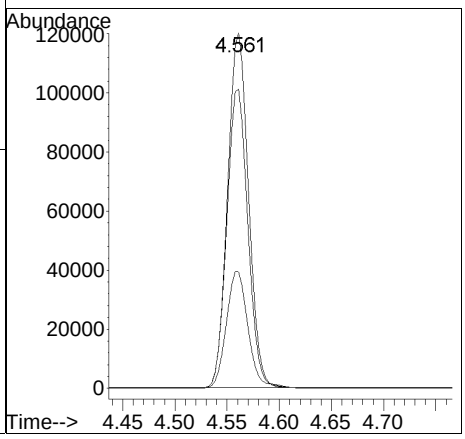




#2
1,4-dioxane
Concen: 4833.73 ng/mL
RT: 4.561 min Scan# 53
Delta R.T. -0.003 min
Lab File: F2306102408.D
Acq: 10 Jun 2024 04:33 pm

Tgt Ion: 88 Resp: 167048

Ion	Ratio	Lower	Upper
88	100		
58	85.4	68.0	102.0
43	34.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102408.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 4:33 pm	Instrument	: PAH23
Sample	: I2306102406	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102409.D
Acq On : 10 Jun 2024 04:55 pm
Operator : PAH23:CSP
Sample : I2306102407
Misc : WG1933297,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 08:43:29 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.509	64	14975	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.813	152	32523	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.509	64	14975	504.190	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.84%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.561	88	326768	9408.682	ng/mL	100

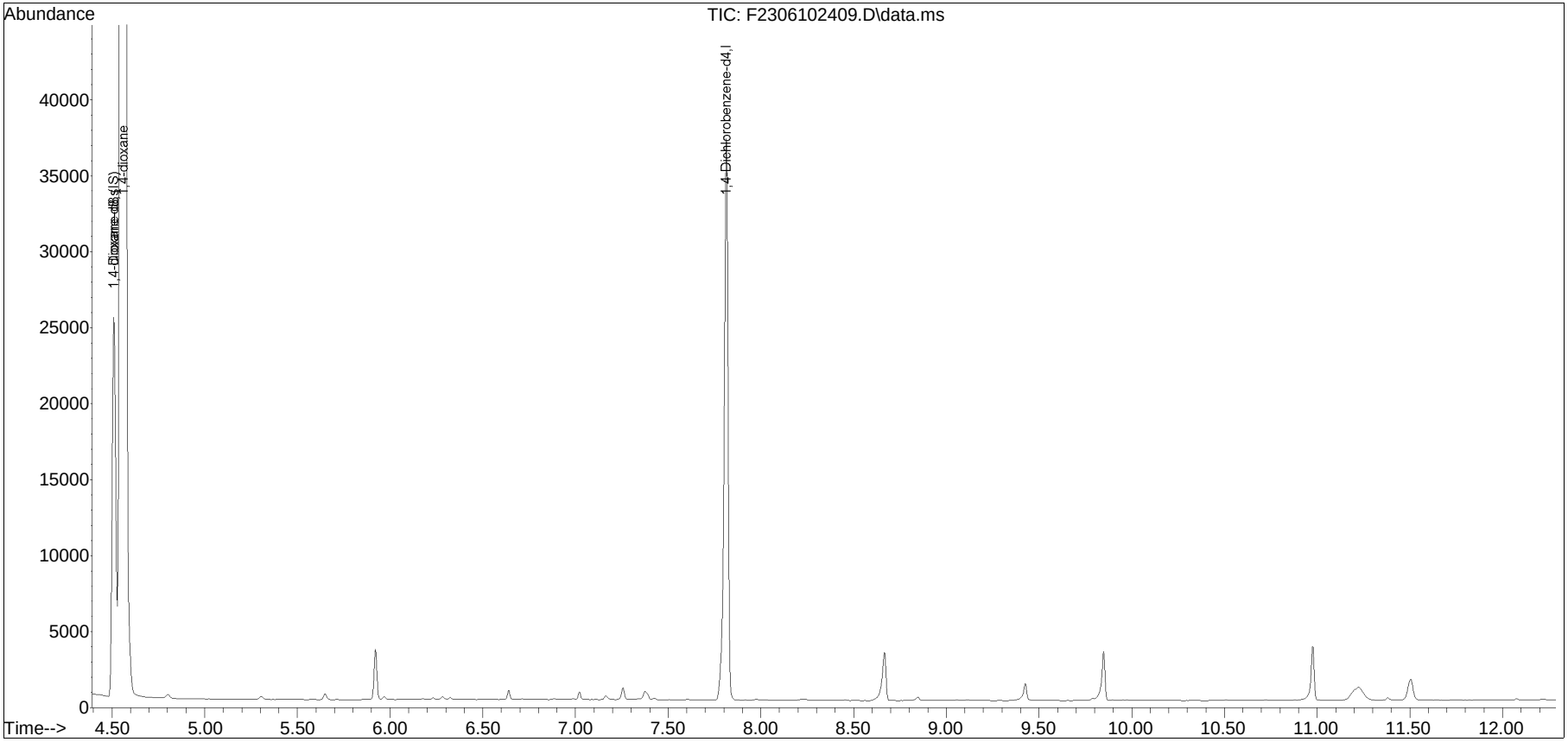
(#) = qualifier out of range (m) = manual integration (+) = signals summed

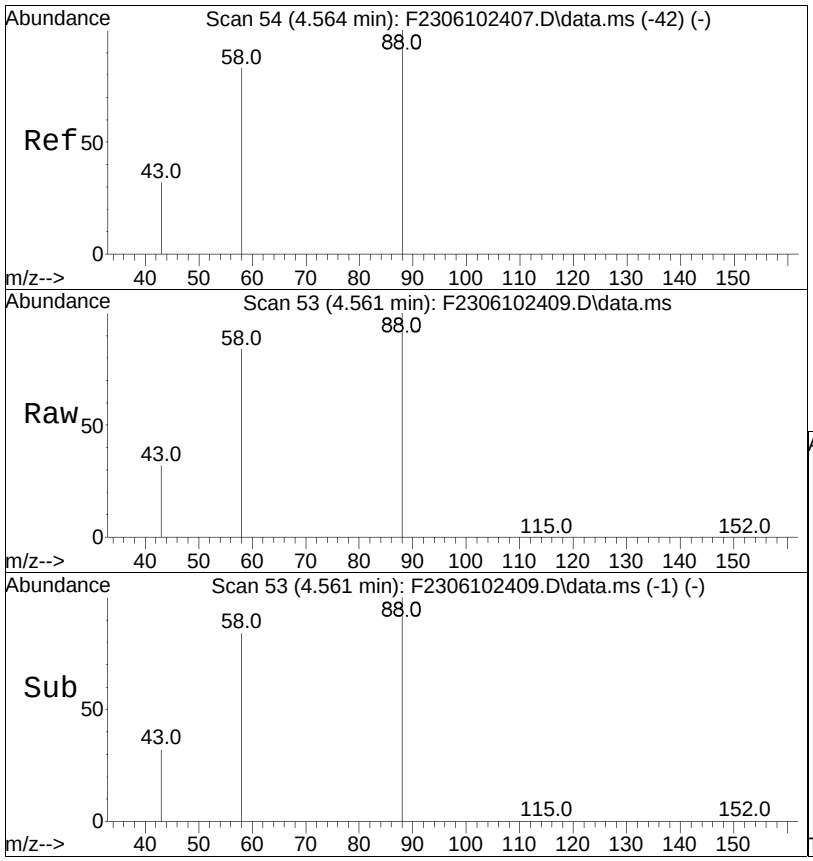
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102409.D
Acq On : 10 Jun 2024 04:55 pm
Operator : PAH23:CSP
Sample : I2306102407
Misc : WG1933297,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 08:43:29 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

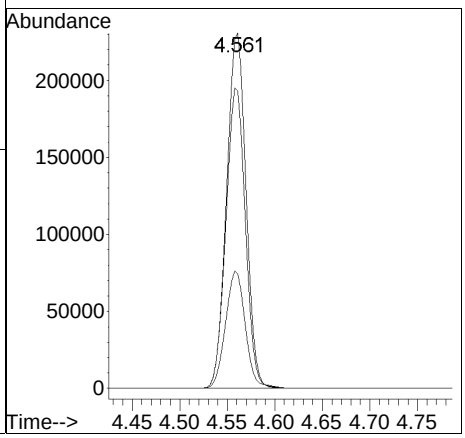




#2
1,4-dioxane
Concen: 9408.68 ng/mL
RT: 4.561 min Scan# 53
Delta R.T. -0.003 min
Lab File: F2306102409.D
Acq: 10 Jun 2024 04:55 pm

Tgt Ion: 88 Resp: 326768

Ion	Ratio	Lower	Upper
88	100		
58	85.1	68.0	102.0
43	33.8	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102409.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 4:55 pm	Instrument	: PAH23
Sample	: I2306102407	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102410.D
Acq On : 10 Jun 2024 05:17 pm
Operator : PAH23:CSP
Sample : CQ2306102401
Misc : WG1933297,MSBS19
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 08:43:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	99	0.00
2	1,4-dioxane	1.160	1.154	0.5	98	-0.01
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
4 s	1,4-dioxane-d8	0.457	0.453	0.9	98	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102410.D
Acq On : 10 Jun 2024 05:17 pm
Operator : PAH23:CSP
Sample : CQ2306102401
Misc : WG1933297,MSBS19
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 08:43:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.503	64	14909	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.807	152	32880	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.503	64	14909	496.518	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.30%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.551	88	34417	995.361	ng/mL	96

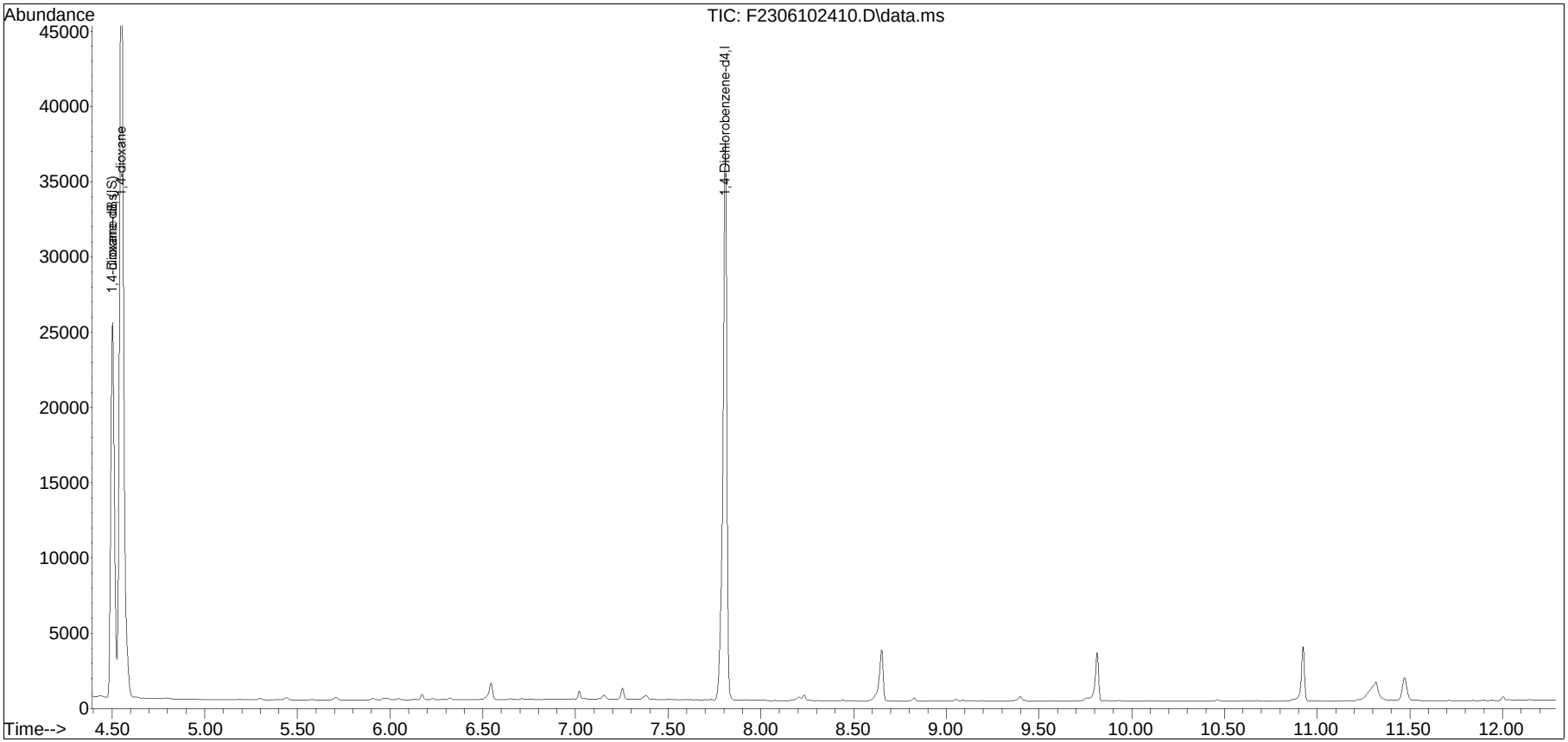
(#) = qualifier out of range (m) = manual integration (+) = signals summed

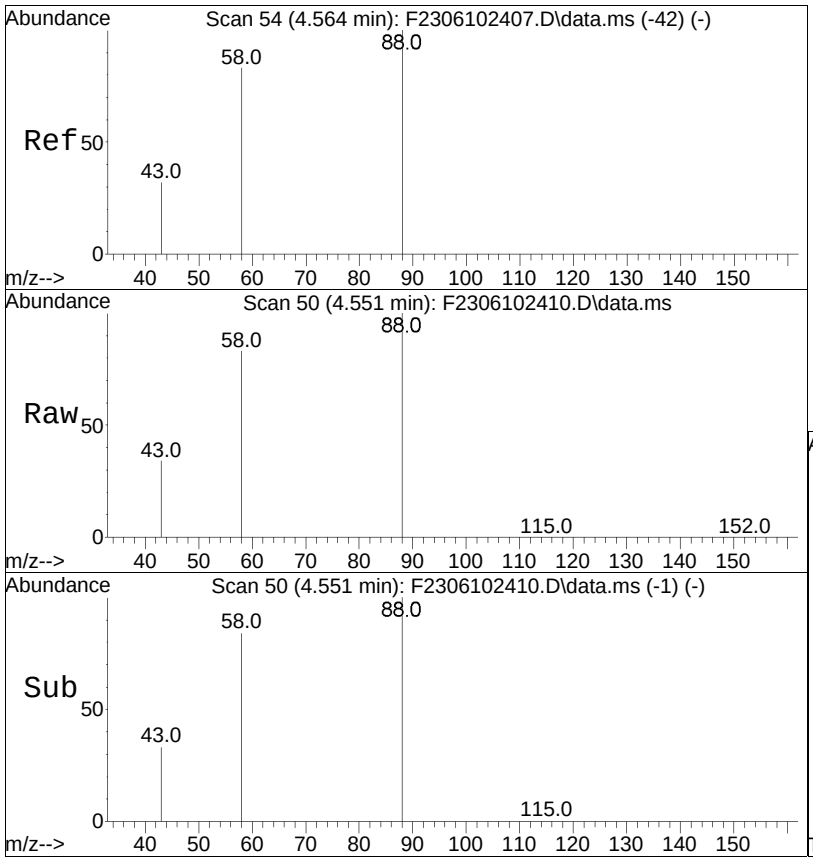
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN10\
Data File : F2306102410.D
Acq On : 10 Jun 2024 05:17 pm
Operator : PAH23:CSP
Sample : CQ2306102401
Misc : WG1933297,MSBS19
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 08:43:42 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN10\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 12 08:41:51 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

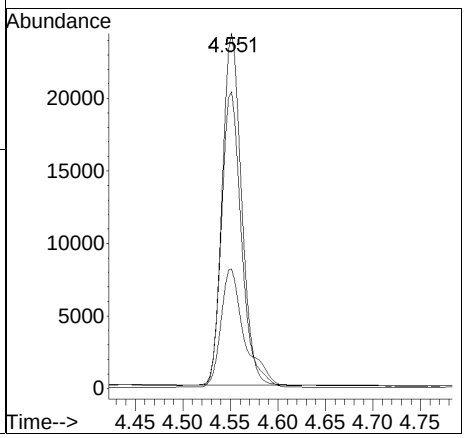




#2
1,4-dioxane
Concen: 995.36 ng/mL
RT: 4.551 min Scan# 50
Delta R.T. -0.013 min
Lab File: F2306102410.D
Acq: 10 Jun 2024 05:17 pm

Tgt Ion: 88 Resp: 34417

Ion	Ratio	Lower	Upper
88	100		
58	87.1	68.0	102.0
43	39.7	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306102410.D	Operator	: PAH23:CSP
Date Inj'd	: 6/10/2024 5:17 pm	Instrument	: PAH23
Sample	: CQ2306102401	Quant Date	: 6/12/2024 8:43 am

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PAH23	**Calibration Date**	: 06/19/24 09:57		
Lab File ID	: F2306192402	**Init. Calib. Date(s)**	: 06/10/24	06/10/24	
Sample No	: WG1936462-2	**Init. Calib. Times**	: 11:18	16:55	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	97	0
1,4-dioxane	1.16	1.084	-	6.6	20	90	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	91	-.01
1,4-dioxane-d8	0.457	0.477	-	-4.4	20	96	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192402.D
Acq On : 19 Jun 2024 09:57 am
Operator : PAH23:CSP
Sample : WG1936462-2
Misc : WG1936462,,ICAL21187,MSBT91
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 10:20:14 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	97	0.00
2	1,4-dioxane	1.160	1.084	6.6	90	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	-0.01
4 s	1,4-dioxane-d8	0.457	0.477	-4.4	96	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192402.D
Acq On : 19 Jun 2024 09:57 am
Operator : PAH23:CSP
Sample : WG1936462-2
Misc : WG1936462,,ICAL21187,MSBT91
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 10:20:14 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.385	64	14524	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	7.734	152	30430	500.000	ng/mL	-0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.385	64	14524	522.640	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 104.53%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.430	88	31481	934.584	ng/mL	97

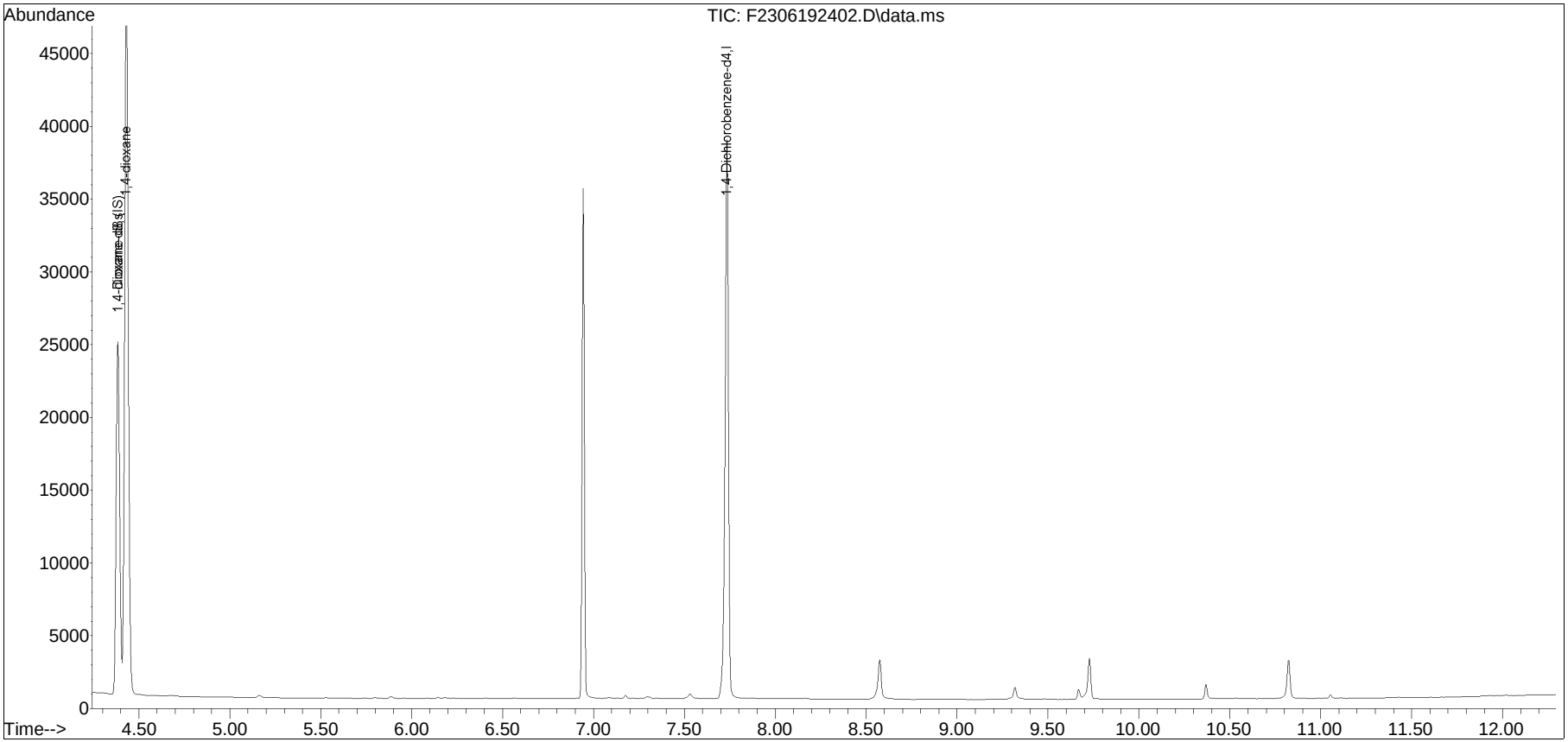
(#) = qualifier out of range (m) = manual integration (+) = signals summed

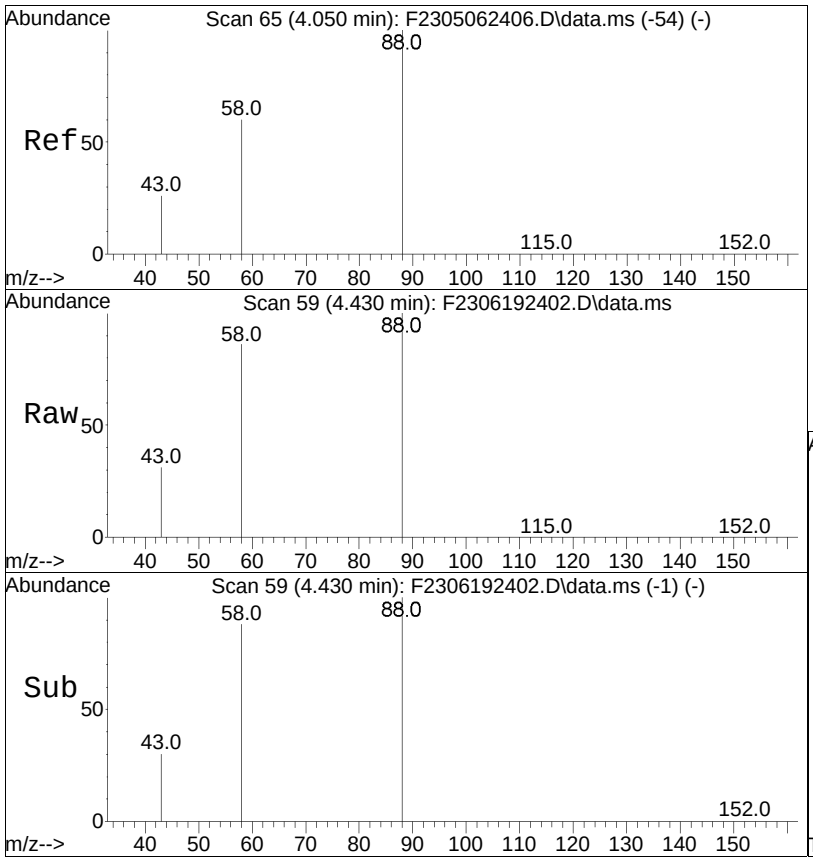
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192402.D
Acq On : 19 Jun 2024 09:57 am
Operator : PAH23:CSP
Sample : WG1936462-2
Misc : WG1936462,,ICAL21187,MSBT91
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 10:20:14 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

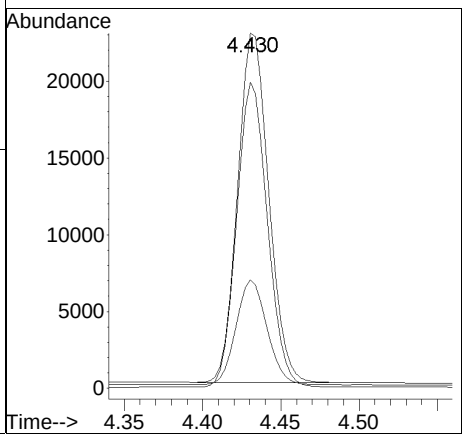




#2
1,4-dioxane
Concen: 934.58 ng/mL
RT: 4.430 min Scan# 59
Delta R.T. -0.003 min
Lab File: F2306192402.D
Acq: 19 Jun 2024 09:57 am

Tgt Ion: 88 Resp: 31481

Ion	Ratio	Lower	Upper
88	100		
58	86.1	68.0	102.0
43	29.8	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192402.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 9:57 am	Instrument	: PAH23
Sample	: WG1936462-2	Quant Date	: 6/19/2024 10:20 am

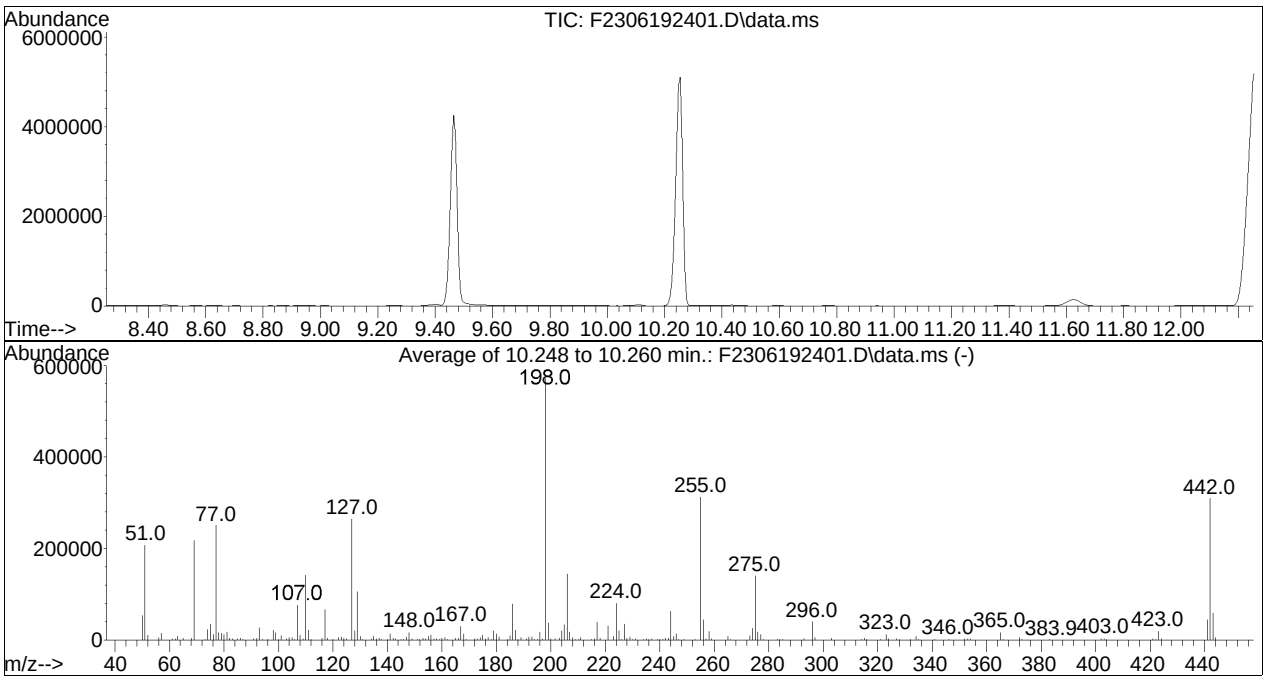
There are no manual integrations or false positives in this file.

Semivolatiles Raw QC Data

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192401.D
Acq On : 19 Jun 2024 09:25 am
Operator : PAH23:CSP
Sample : WG1936462-1
Misc : WG1936462,,ICAL21187,MSBT75
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Title : Semivolatiles by GC/MS
Last Update : Wed Jun 19 08:58:38 2024



Spectrum Information: Average of 10.248 to 10.260 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.3	207774	PASS
68	69	0.00	2	1.7	3716	PASS
70	69	0.00	2	0.5	1141	PASS
127	198	10	80	46.3	264704	PASS
197	198	0.00	2	0.6	3577	PASS
198	198	100	100	100.0	571605	PASS
199	198	5	9	6.7	38216	PASS
275	198	10	60	24.6	140637	PASS
365	198	1	100	2.8	16229	PASS
441	442	0.01	24	14.3	44093	PASS
442	198	50	100	54.1	309099	PASS
443	442	15	24	19.1	58893	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192403.D
Acq On : 19 Jun 2024 11:02 am
Operator : PAH23:CSP
Sample : wg1936132-1,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 07:56:47 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.401	64	3022	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	7.757	152	30366	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.401	64	3022	108.975	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 21.79%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

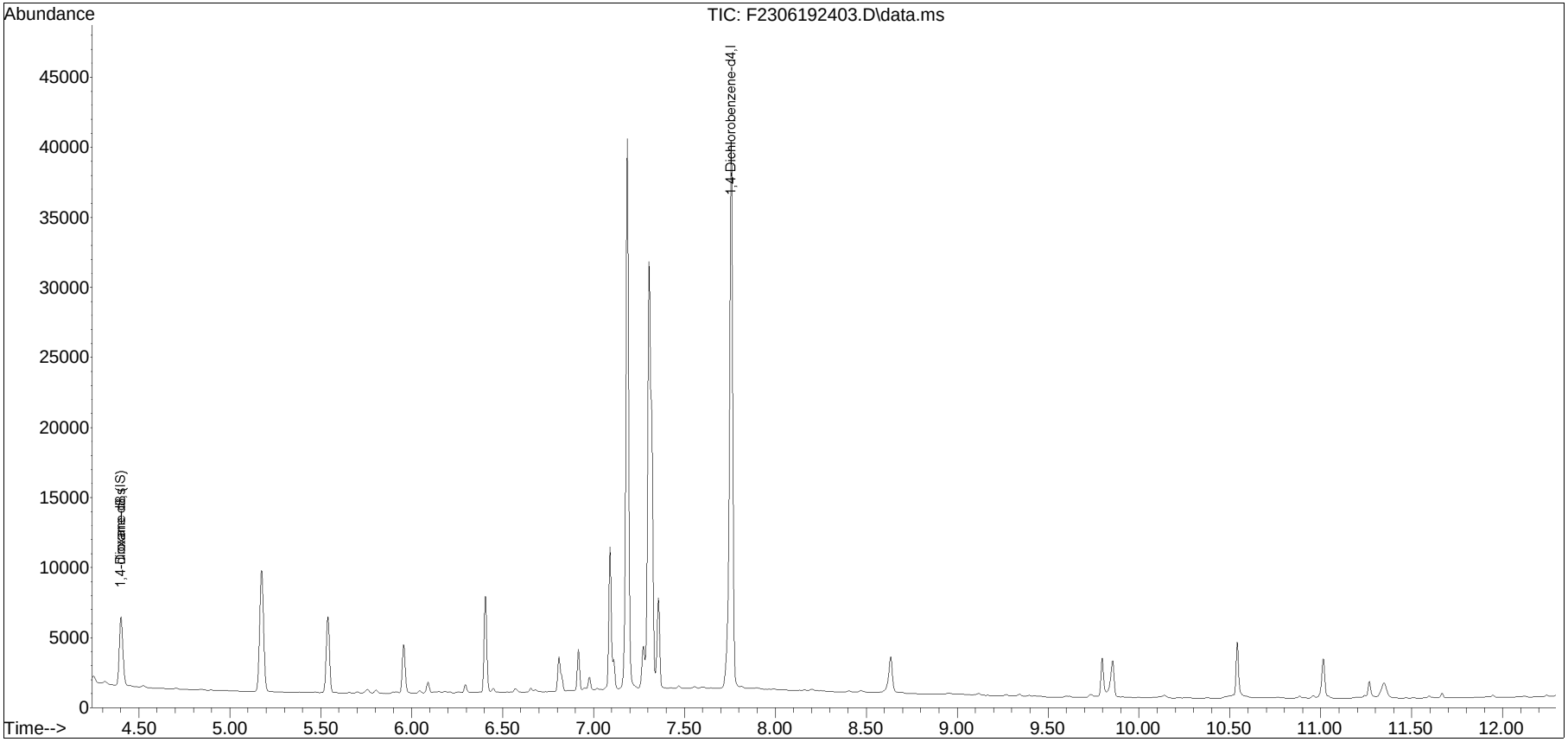
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192403.D
Acq On : 19 Jun 2024 11:02 am
Operator : PAH23:CSP
Sample : wg1936132-1,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 07:56:47 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192403.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 11:02 am	Instrument	: PAH23
Sample	: wg1936132-1,32,,	Quant Date	: 6/20/2024 7:56 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192404.D
Acq On : 19 Jun 2024 11:21 am
Operator : PAH23:CSP
Sample : wg1936132-2,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 07:56:49 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.424	64	4778	500.000	ng/mL	0.04
3) 1,4-Dichlorobenzene-d4	7.747	152	29898	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.424	64	4778	174.994	ng/mL	0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 35.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.472	88	7116	642.164	ng/mL	99

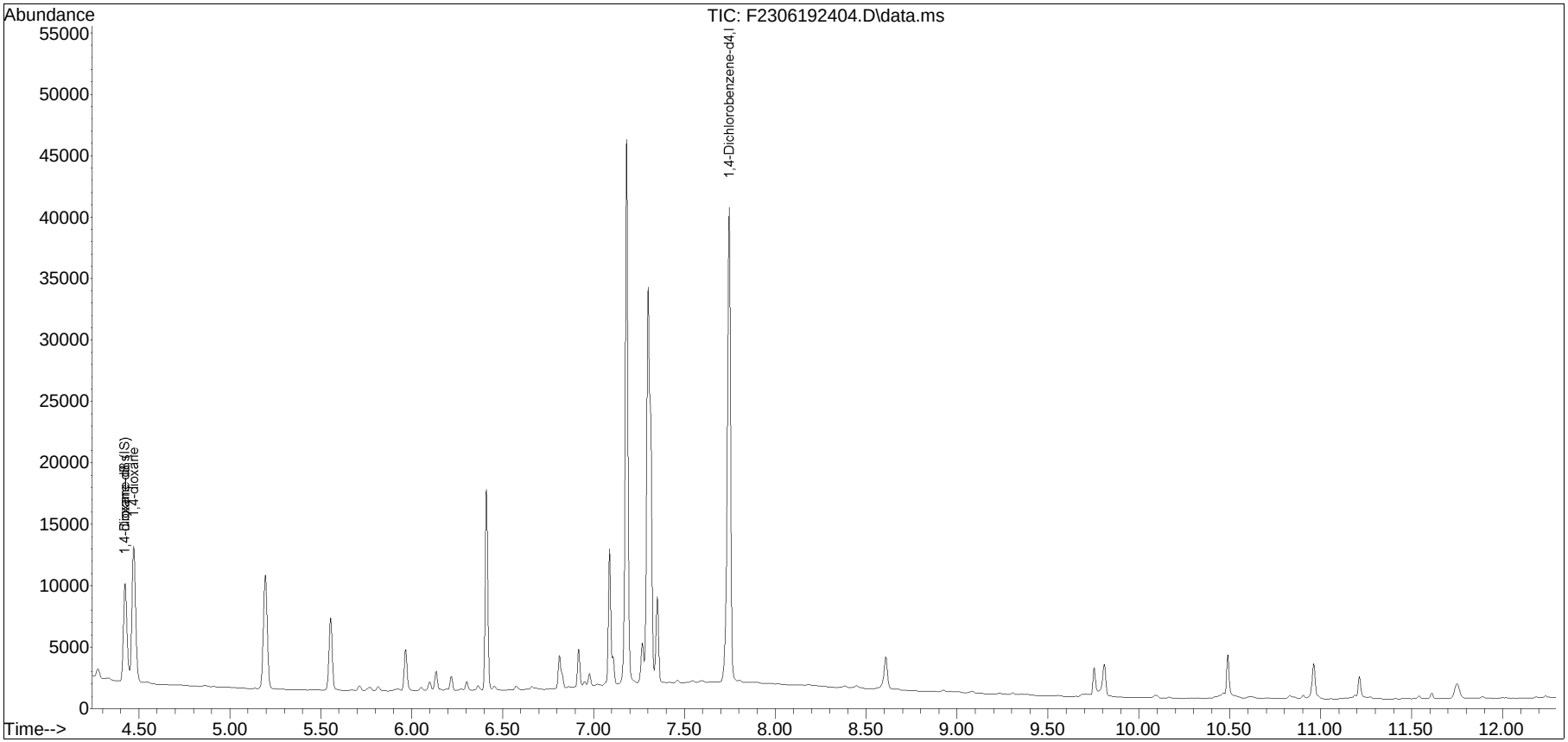
(#) = qualifier out of range (m) = manual integration (+) = signals summed

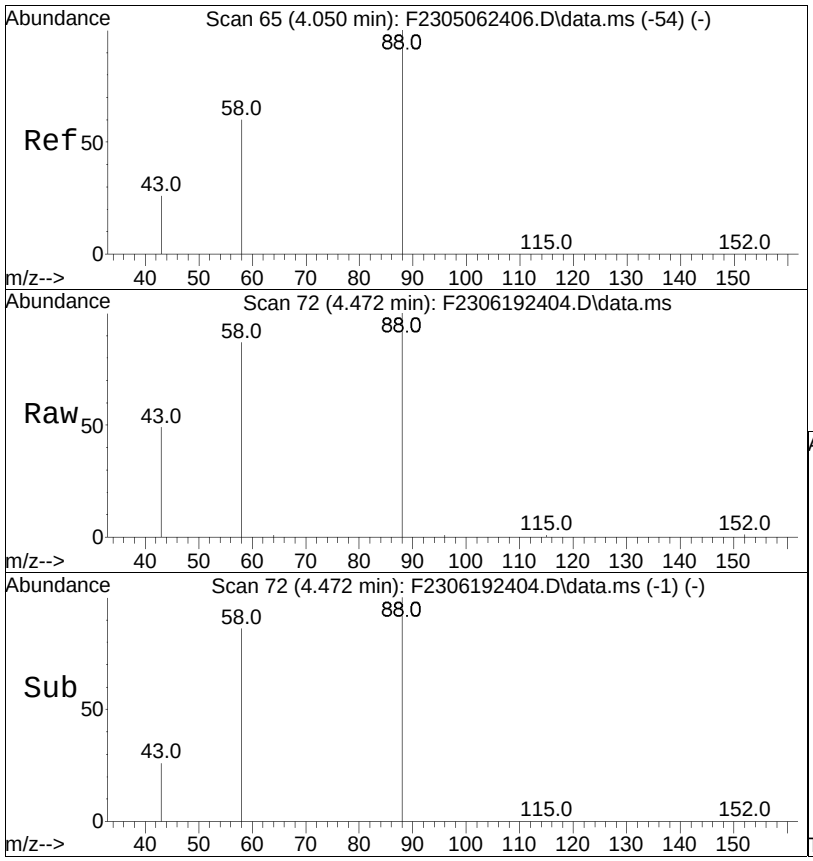
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192404.D
Acq On : 19 Jun 2024 11:21 am
Operator : PAH23:CSP
Sample : wg1936132-2,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 07:56:49 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

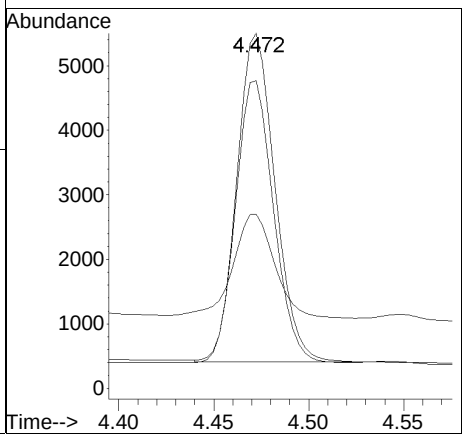




#2
1,4-dioxane
Concen: 642.16 ng/mL
RT: 4.472 min Scan# 72
Delta R.T. 0.039 min
Lab File: F2306192404.D
Acq: 19 Jun 2024 11:21 am

Tgt Ion: 88 Resp: 7116

Ion	Ratio	Lower	Upper
88	100		
58	86.0	68.0	102.0
43	35.7	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192404.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 11:21 am	Instrument	: PAH23
Sample	: wg1936132-2,32,,	Quant Date	: 6/20/2024 7:56 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192405.D
Acq On : 19 Jun 2024 11:41 am
Operator : PAH23:CSP
Sample : wg1936132-3,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 07:56:51 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.433	64	5228	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	7.750	152	29803	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.433	64	5228	192.085	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.42%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.482	88	7812	644.292	ng/mL	98

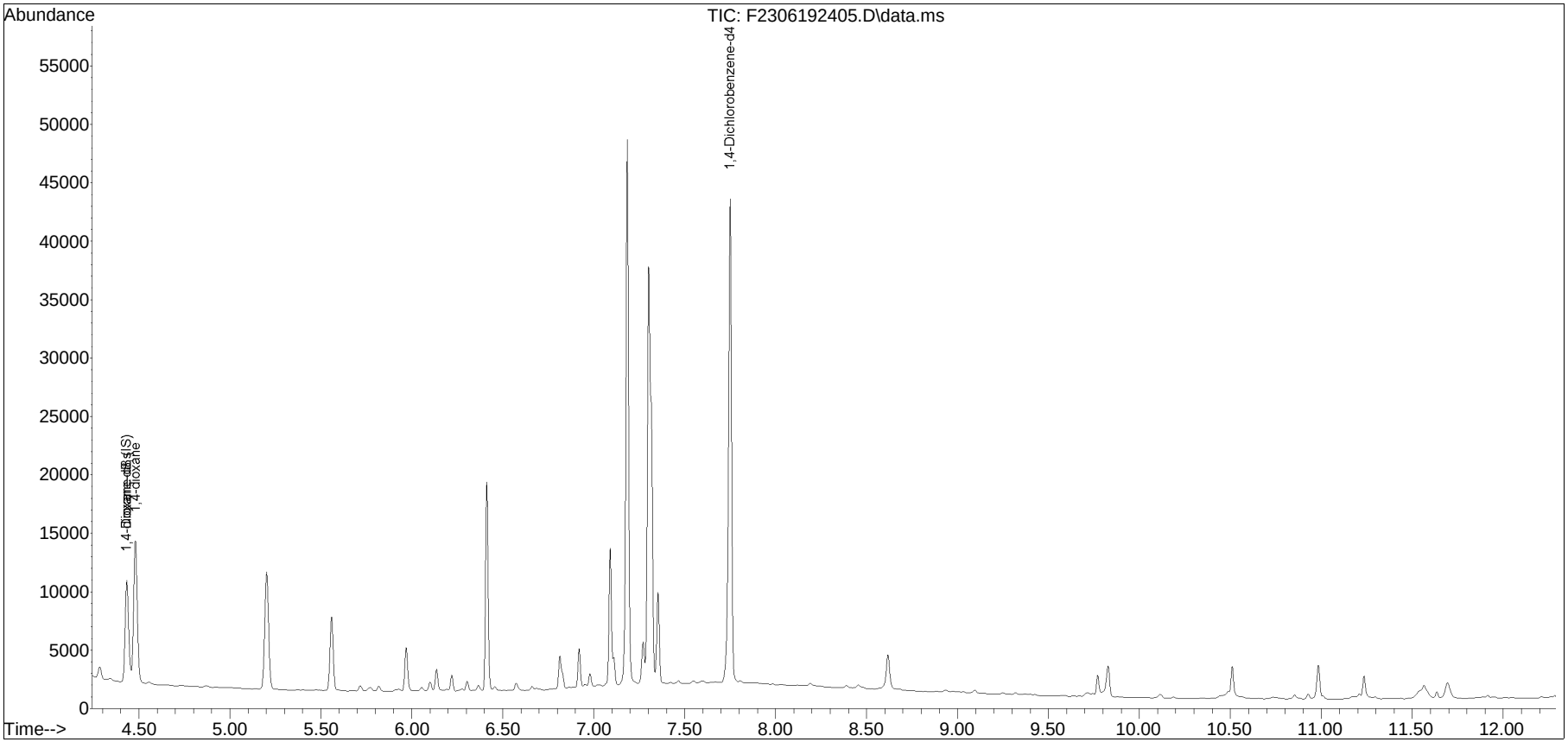
(#) = qualifier out of range (m) = manual integration (+) = signals summed

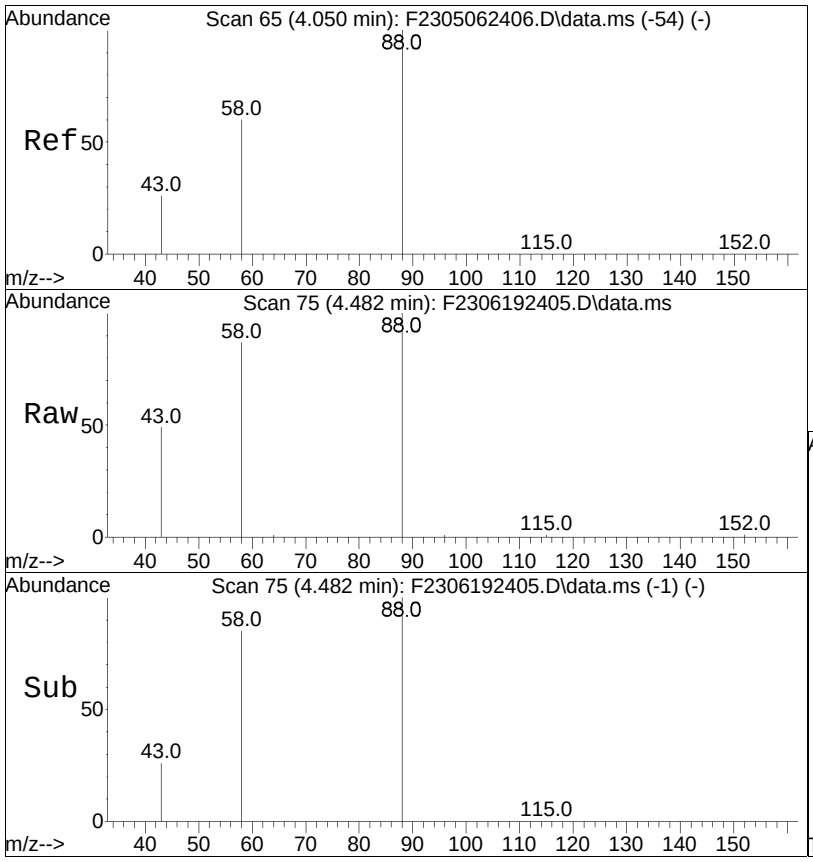
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192405.D
Acq On : 19 Jun 2024 11:41 am
Operator : PAH23:CSP
Sample : wg1936132-3,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 07:56:51 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

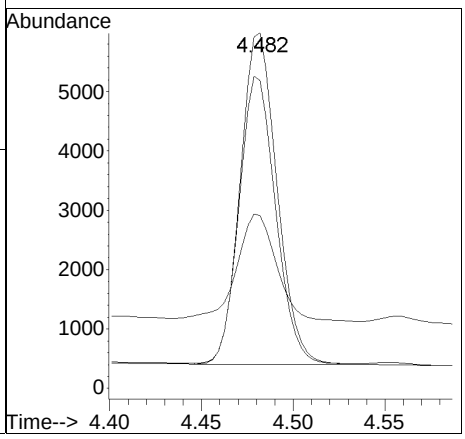




#2
1,4-dioxane
Concen: 644.29 ng/mL
RT: 4.482 min Scan# 75
Delta R.T. 0.048 min
Lab File: F2306192405.D
Acq: 19 Jun 2024 11:41 am

Tgt Ion: 88 Resp: 7812

Ion	Ratio	Lower	Upper
88	100		
58	86.6	68.0	102.0
43	36.2	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192405.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 11:41 am	Instrument	: PAH23
Sample	: wg1936132-3,32,,	Quant Date	: 6/20/2024 7:56 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192415.D
Acq On : 19 Jun 2024 03:07 pm
Operator : PAH23:CSP
Sample : wg1936132-4,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 07:57:11 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.417	64	5972	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	7.734	152	30443	500.000	ng/mL	-0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.417	64	5972	214.808	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 42.96%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.466	88	9244	667.415	ng/mL	100

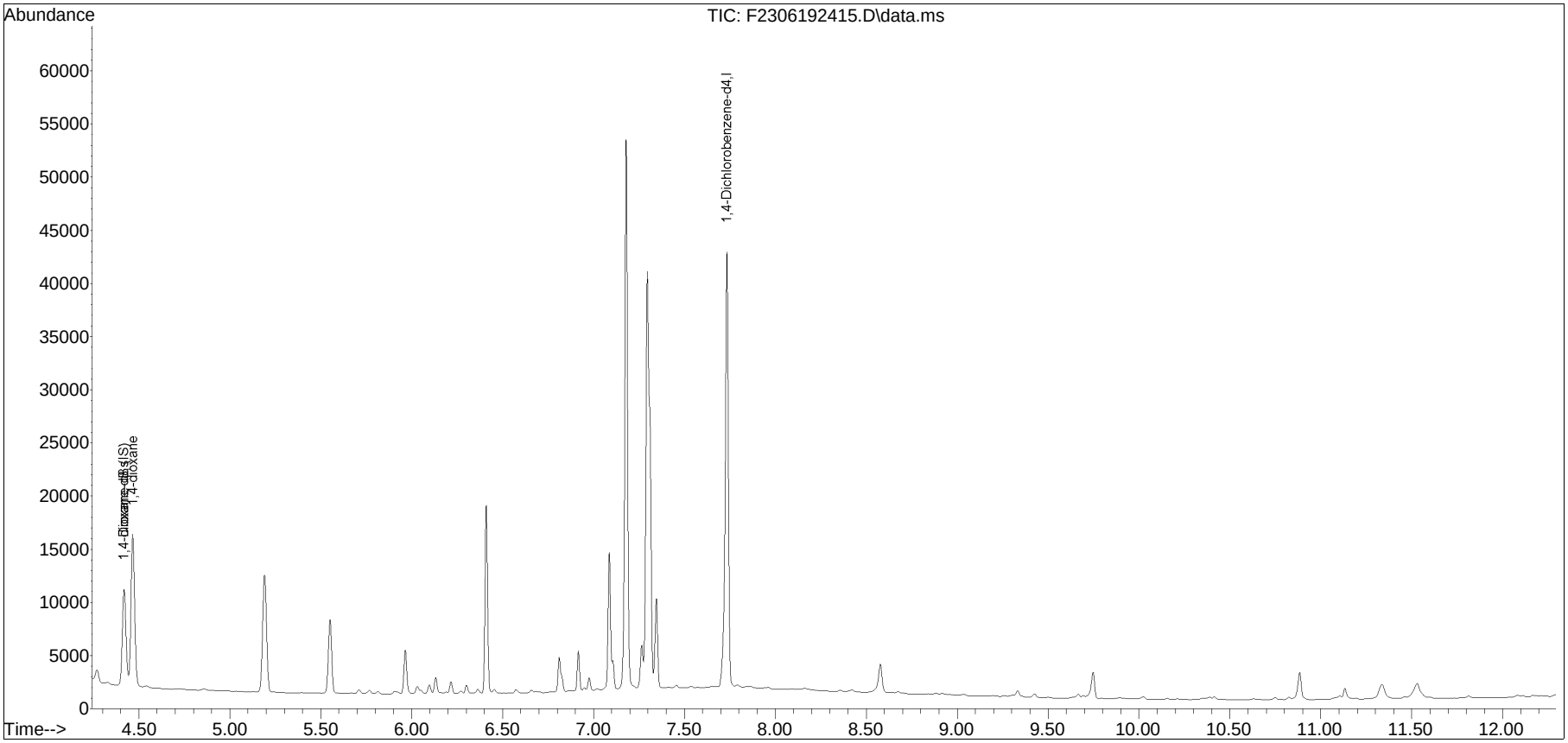
(#) = qualifier out of range (m) = manual integration (+) = signals summed

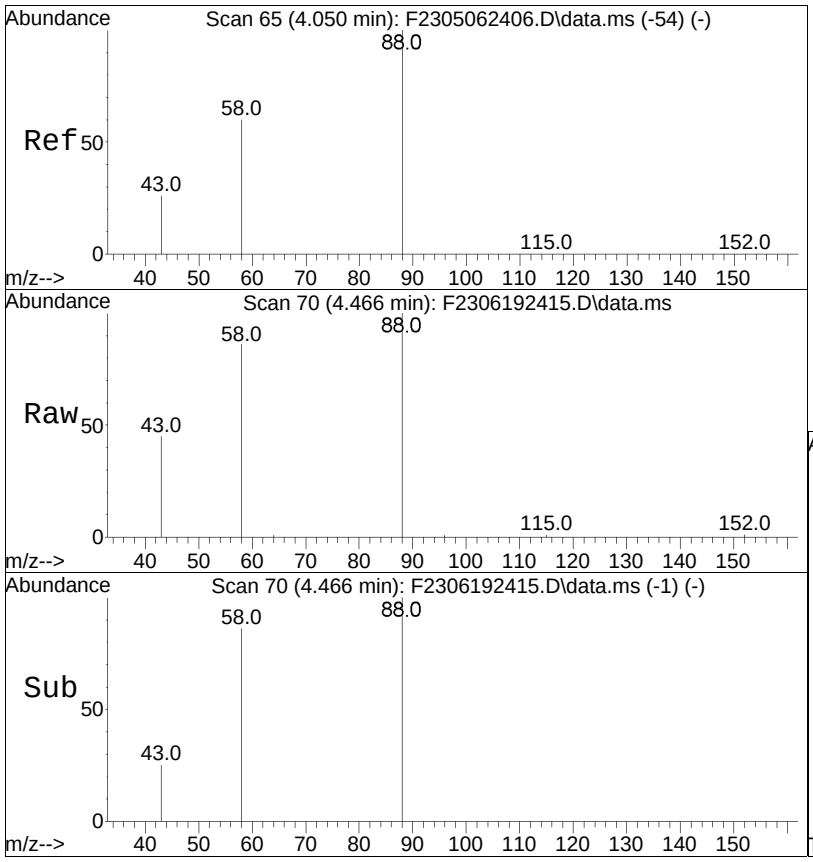
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192415.D
Acq On : 19 Jun 2024 03:07 pm
Operator : PAH23:CSP
Sample : wg1936132-4,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 07:57:11 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

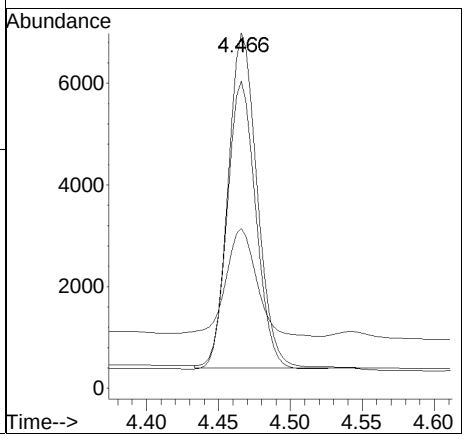




#2
1,4-dioxane
Concen: 667.42 ng/mL
RT: 4.466 min Scan# 70
Delta R.T. 0.032 min
Lab File: F2306192415.D
Acq: 19 Jun 2024 03:07 pm

Tgt Ion: 88 Resp: 9244

Ion	Ratio	Lower	Upper
88	100		
58	85.0	68.0	102.0
43	33.9	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192415.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 3:07 pm	Instrument	: PAH23
Sample	: wg1936132-4,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192416.D
Acq On : 19 Jun 2024 03:28 pm
Operator : PAH23:CSP
Sample : wg1936132-5,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 07:57:13 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.421	64	6136	500.000	ng/mL	0.04
3) 1,4-Dichlorobenzene-d4	7.721	152	30372	500.000	ng/mL	-0.03
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.421	64	6136	221.223	ng/mL	0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 44.24%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.469	88	9571	672.555	ng/mL	99

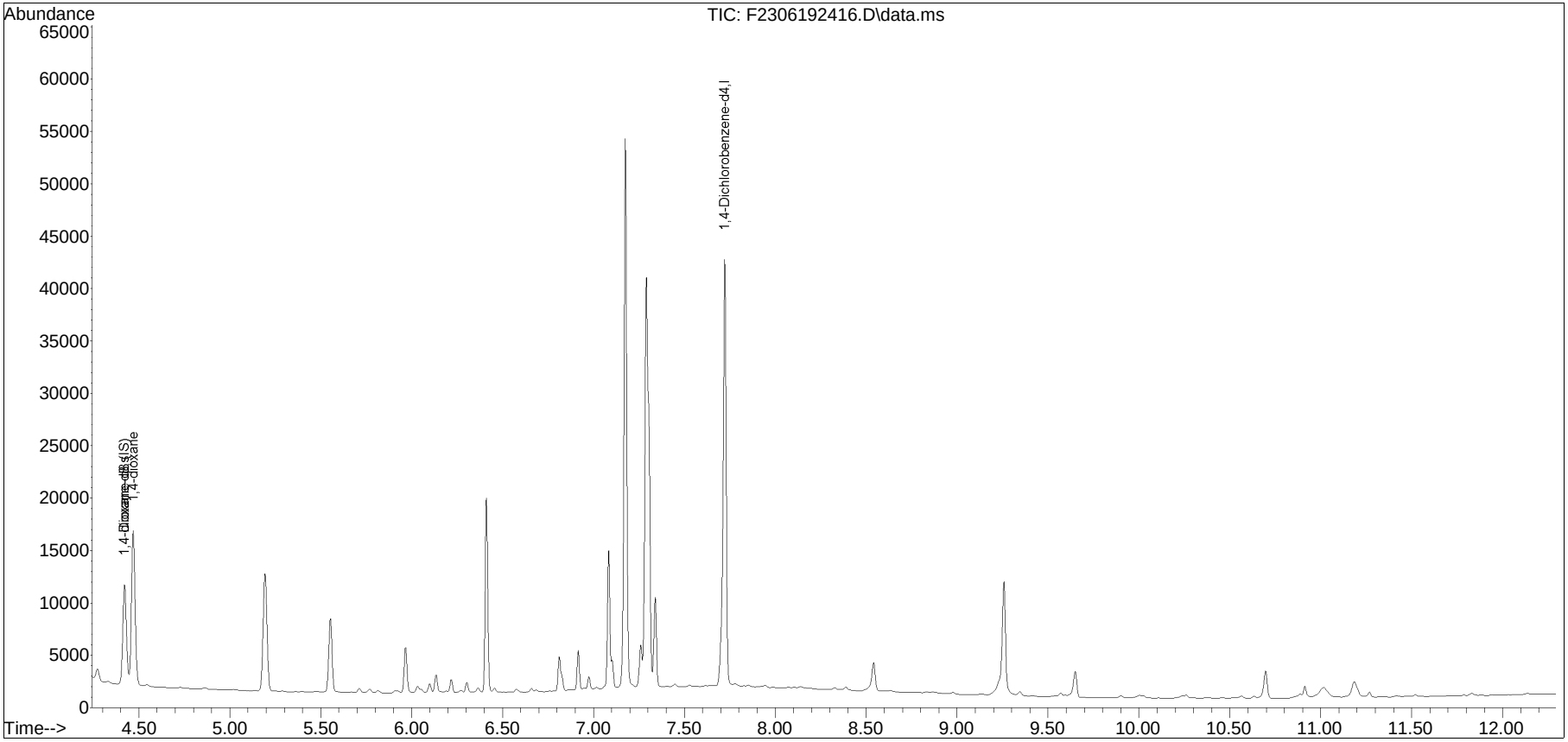
(#) = qualifier out of range (m) = manual integration (+) = signals summed

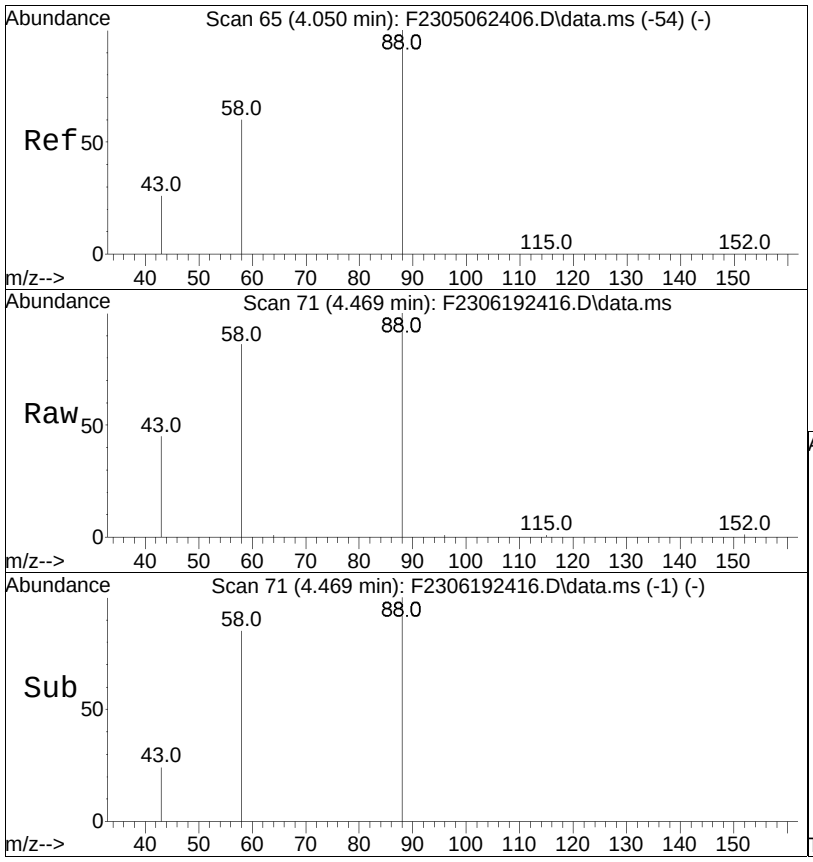
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH23\2024\JUN\JUN19\
Data File : F2306192416.D
Acq On : 19 Jun 2024 03:28 pm
Operator : PAH23:CSP
Sample : wg1936132-5,32,,
Misc : WG1936462,WG1936132,ICAL21187
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 07:57:13 2024
Quant Method : O:\Organics\DATA\PAH23\2024\JUN\JUN19\14DIOX0610PAH23.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Wed Jun 19 08:58:38 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

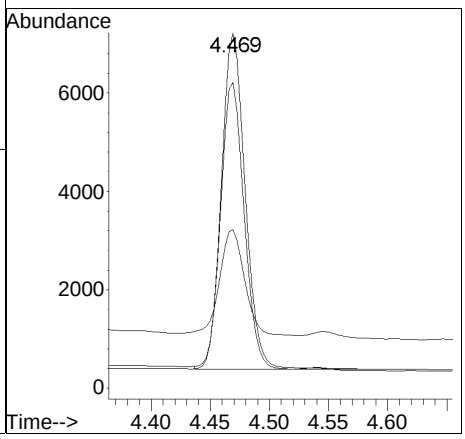




#2
1,4-dioxane
Concen: 672.56 ng/mL
RT: 4.469 min Scan# 71
Delta R.T. 0.036 min
Lab File: F2306192416.D
Acq: 19 Jun 2024 03:28 pm

Tgt Ion: 88 Resp: 9571

Ion	Ratio	Lower	Upper
88	100		
58	84.5	68.0	102.0
43	33.7	27.7	41.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH23\2024Q	Method	: 14DIOX0610PAH23.M
Data File	: F2306192416.D	Operator	: PAH23:CSP
Date Inj'd	: 6/19/2024 3:28 pm	Instrument	: PAH23
Sample	: wg1936132-5,32,,	Quant Date	: 6/20/2024 7:57 am

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 12:03 pm

Work Group: WG1936462 for Department: 32 GC/MS - Semivolatiles

Created: 19-JUN-24 Due: Operator: CSP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-01	EB_06132024	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433375-02	DUP_06132024	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433375-03	PZ-5	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433375-04	MW-5D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433375-05	MW-12S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433375-06	MW-12D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433375-07	MW-4S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433375-08	MW-4D2	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433525-03	MW-3	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433525-04	MW-4	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433525-05	MW-4D	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433525-07	MW-5	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433525-08	MW-6	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433525-10	MW-8	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433525-15	DUP-1	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0620	S0	Amber-A.25
L2433979-01	INF-01	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0624	0620	3C	Amber-A.25
L2433979-02	VES1-PORT-M	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0624	0620	3C	Amber-A.25
L2433979-03	VES1-EFF	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0624	0620	3C	Amber-A.25
L2433979-04	VES2-PORT-M	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0624	0620	3C	Amber-A.25
L2433979-05	VES2-EFF	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0624	0620	3C	Amber-A.25
WG1936131-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936131-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936131-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936132-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1936132-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1936132-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1936132-4	Matrix Spike	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1936132-5	Matrix Spike Duplica	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1936462-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1936462-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936462-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936462-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				

Comments:

WG1936131-3	WG1936131-2
WG1936132-3	WG1936132-2
WG1936132-4	L2433375-04
WG1936132-5	L2433375-04

Analysis log File

Total Files Reported in Log : 10
Log Generated From Directory: O:\Organics\DATA\PAH23\2024\JUN\JUN10\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F2306102401.D	DFTPP.M	T2306102401	WG1933297,MSBT75	6/10/2024 9:51 am
2	F2306102402.D	14DIOX.M	L1	SOLVENT DELAY ADJUSTED	6/10/2024 10:26 am
3	F2306102403.D	14DIOX.M	I2306102401	WG1933297,MSBT54	6/10/2024 11:18 am
4	F2306102404.D	14DIOX.M	I2306102402	WG1933297,MSBT55	6/10/2024 3:06 pm
5	F2306102405.D	14DIOX.M	I2306102403	WG1933297,MSBT56	6/10/2024 3:27 pm
6	F2306102406.D	14DIOX.M	I2306102404	WG1933297,MSBT57	6/10/2024 3:49 pm
7	F2306102407.D	14DIOX.M	I2306102405	WG1933297,MSBT58	6/10/2024 4:11 pm
8	F2306102408.D	14DIOX.M	I2306102406	WG1933297,MSBT59	6/10/2024 4:33 pm
9	F2306102409.D	14DIOX.M	I2306102407	WG1933297,MSBT53	6/10/2024 4:55 pm
10	F2306102410.D	14DIOX.M	CQ2306102401	WG1933297,MSBS19	6/10/2024 5:17 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 27
Log Generated From Directory: O:\Organics\DATA\PAH23\2024\JUN\JUN19\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F2306192401.D	DFTPP.M	WG1936462-1	WG1936462,,ICAL21187,MS..	6/19/2024 9:25 am
2	F2306192402.D	14DIOX.M	WG1936462-2	WG1936462,,ICAL21187,MS..	6/19/2024 9:57 am
3	F2306192403.D	14DIOX.M	wg1936132-1,32,,	WG1936462,WG1936132,ICA..	6/19/2024 11:02 am
4	F2306192404.D	14DIOX.M	wg1936132-2,32,,	WG1936462,WG1936132,ICA..	6/19/2024 11:21 am
5	F2306192405.D	14DIOX.M	wg1936132-3,32,,	WG1936462,WG1936132,ICA..	6/19/2024 11:41 am
6	F2306192406.D	14DIOX.M	l2433979-01,32,,,r3c	WG1936462,WG1936131,ICA..	6/19/2024 12:01 pm
7	F2306192407.D	14DIOX.M	l2433979-02,32,,,r3c	WG1936462,WG1936131,ICA..	6/19/2024 12:21 pm
8	F2306192408.D	14DIOX.M	l2433979-03,32,,,r3c	WG1936462,WG1936131,ICA..	6/19/2024 12:41 pm
9	F2306192409.D	14DIOX.M	l2433979-04,32,,,r3c	WG1936462,WG1936131,ICA..	6/19/2024 1:02 pm
10	F2306192410.D	14DIOX.M	l2433979-05,32,,,r3c	WG1936462,WG1936131,ICA..	6/19/2024 1:22 pm
11	F2306192411.D	14DIOX.M	l2433375-01,32,,	WG1936462,WG1936132,ICA..	6/19/2024 1:43 pm
12	F2306192412.D	14DIOX.M	l2433375-02,32,,	WG1936462,WG1936132,ICA..	6/19/2024 2:04 pm
13	F2306192413.D	14DIOX.M	l2433375-03,32,,	WG1936462,WG1936132,ICA..	6/19/2024 2:25 pm
14	F2306192414.D	14DIOX.M	l2433375-04,32,,	WG1936462,WG1936132,ICA..	6/19/2024 2:46 pm
15	F2306192415.D	14DIOX.M	wg1936132-4,32,,	WG1936462,WG1936132,ICA..	6/19/2024 3:07 pm
16	F2306192416.D	14DIOX.M	wg1936132-5,32,,	WG1936462,WG1936132,ICA..	6/19/2024 3:28 pm
17	F2306192417.D	14DIOX.M	l2433375-05,32,,	WG1936462,WG1936132,ICA..	6/19/2024 3:50 pm
18	F2306192418.D	14DIOX.M	l2433375-06,32,,	WG1936462,WG1936132,ICA..	6/19/2024 4:12 pm
19	F2306192419.D	14DIOX.M	l2433375-08,32,,	WG1936462,WG1936132,ICA..	6/19/2024 4:33 pm
20	F2306192420.D	14DIOX.M	l2433375-07,32,,	WG1936462,WG1936132,ICA..	6/19/2024 4:54 pm
21	F2306192421.D	14DIOX.M	l2433525-03,32,,	WG1936462,WG1936131,ICA..	6/19/2024 5:15 pm
22	F2306192422.D	14DIOX.M	l2433525-04,32,,	WG1936462,WG1936131,ICA..	6/19/2024 5:36 pm
23	F2306192423.D	14DIOX.M	l2433525-05,32,,	WG1936462,WG1936131,ICA..	6/19/2024 5:56 pm
24	F2306192424.D	14DIOX.M	l2433525-07,32,,	WG1936462,WG1936131,ICA..	6/19/2024 6:17 pm
25	F2306192425.D	14DIOX.M	l2433525-08,32,,	WG1936462,WG1936131,ICA..	6/19/2024 6:37 pm
26	F2306192426.D	14DIOX.M	l2433525-10,32,,	WG1936462,WG1936131,ICA..	6/19/2024 6:58 pm
27	F2306192427.D	14DIOX.M	l2433525-15,32,,	WG1936462,WG1936131,ICA..	6/19/2024 7:18 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1936132

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI524-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBT34
Spike Type: 1,4-DIOXANE **Lot #:** MSBT35
Spike Verify by: GRA
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Na2SO4	ON061224A
Glass Wool	06323999

Conc.Method: S-EVAP
Solvent Type: DCM
Lot #: EI524-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2433375-01 SAMP	06/18/24 21:00	Gregory Fernberg	250	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
L2433375-02 SAMP	06/18/24 21:00	Gregory Fernberg	265	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
L2433375-03 SAMP	06/18/24 21:00	Gregory Fernberg	255	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
L2433375-04 SAMP	06/18/24 21:00	Gregory Fernberg	255	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
L2433375-05 SAMP	06/18/24 21:00	Gregory Fernberg	255	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
L2433375-06 SAMP	06/18/24 21:00	Gregory Fernberg	255	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
L2433375-07 SAMP	06/18/24 21:00	Gregory Fernberg	250	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3

Reported: 20-JUN-24 12:03 PM

ORGANIC ELN REPORT

Workgroup: WG1936132

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433375-08 SAMP	06/18/24 21:00	Gregory Fernberg	265	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
WG1936132-1 BLANK	06/18/24 21:00	Gregory Fernberg	250	7	.25		06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
	Shares QCs with WG1936131 GMF 06/18/24									
WG1936132-2 LCS	06/18/24 21:00	Gregory Fernberg	250	7	.25	.25	06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
WG1936132-3 LCSD	06/18/24 21:00	Gregory Fernberg	250	7	.25	.25	06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
WG1936132-4 MS	06/18/24 21:00	Gregory Fernberg	265	7	.25	.25	06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3
WG1936132-5 MSD	06/18/24 21:00	Gregory Fernberg	255	7	.25	.25	06/18/24 23:00	Gavin Aldrich	2.5	SEVAP 3

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433375
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
EB_06132024 (L2433375-01)	95	87	--	--			0
DUP_06132024 (L2433375-02)	97	91	--	--			0
PZ-5 (L2433375-03)	55	54	--	--			0
MW-5D (L2433375-04)	88	82	--	--			0
MW-12S (L2433375-05)	51	51	--	--			0
MW-12D (L2433375-06)	61	59	--	--			0
MW-4S (L2433375-07)	75	72	--	--			0
MW-4D2 (L2433375-08)	96	91	--	--			0
WG1935934-1BLANK	98	89	--	--			0
WG1935934-2LCS	75	85	--	--			0
WG1935934-3LCSD	97	106	--	--			0
WG1936519-1BLANK	119	105	--	--			0
WG1936519-2LCS	98	108	--	--			0
WG1936519-3LCSD	107	111	--	--			0
MW-5DMS	97	107	--	--			0
MW-5DMSD	86	93	--	--			0

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-8151

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935934-2 Analysis Date : 06/19/24 14:21	**File ID**	: 22240619a-22
LCSD Sample ID	: WG1935934-3 Analysis Date : 06/19/24 14:40	**File ID**	: 22240619a-23

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	641P	128	500	798P	160 Q	22	30-150	25
MCPA	500	502	100	500	633	126	23	30-150	25
Dalapon	5	3.50	70	5	4.10	82	16	30-150	25
Dicamba	5	3.94	79	5	4.78	96	19	30-150	25
Dichloroprop	5	3.69	74	5	4.62	92	22	30-150	25
2,4-D	5	3.80	76	5	4.61	92	19	30-150	25
2,4-DB	5	4.04	81	5	5.30	106	27 Q	30-150	25
2,4,5-T	5	4.31	86	5	5.08	102	17	30-150	25
2,4,5-TP (Silvex)	5	3.88	78	5	4.66	93	18	30-150	25
Dinoseb	5	4.07	81	5	5.23	105	26 Q	30-150	25

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936519-2 **Analysis Date** : 06/20/24 17:10	**File ID**	: 22240619a-92
LCSD Sample ID	: WG1936519-3 **Analysis Date** : 06/20/24 17:28	**File ID**	: 22240619a-93

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	943P	189 Q	500	965P	193 Q	2	30-150	25
MCPA	500	721	144	500	727P	145	1	30-150	25
Dalapon	5	4.93	99	5	4.57	91	8	30-150	25
Dicamba	5	5.38	108	5	5.60	112	4	30-150	25
Dichloroprop	5	4.71	94	5	4.85	97	3	30-150	25
2,4-D	5	4.66	93	5	4.78	96	3	30-150	25
2,4-DB	5	7.04	141	5	5.62	112	23	30-150	25
2,4,5-T	5	4.62	92	5	5.00	100	8	30-150	25
2,4,5-TP (Silvex)	5	4.48	90	5	4.54	91	1	30-150	25
Dinoseb	5	3.80	76	5	3.87	77	1	30-150	25

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 19:20
Matrix Spike	: WG1936519-4	**MS Analysis Date**	: 06/20/24 19:39
Matrix Spike Dup	: WG1936519-5	**MSD Analysis Date**	: 06/20/24 19:57

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	ND	500	875	175 Q	500	789	158 Q	10	30-150	25
MCPA	ND	500	672	134	500	601	120	11	30-150	25
Dalapon	ND	5	3.45J	69	5	3.86J	77	11	30-150	25
Dicamba	ND	5	5.14	103	5	4.67	93	10	30-150	25
Dichloroprop	ND	5	4.70J	94	5	4.19J	84	11	30-150	25
2,4-D	ND	5	4.75J	95	5	4.29J	86	10	30-150	25
2,4-DB	ND	5	4.85J	97	5	4.52J	90	7	30-150	25
2,4,5-T	ND	5	4.92	98	5	4.51	90	9	30-150	25
2,4,5-TP (Silvex)	ND	5	4.59	92	5	4.17	83	10	30-150	25
Dinoseb	ND	5	4.18J	84	5	3.69J	74	12	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1935934-1	**Lab File ID**	: 22240619a-21
Matrix	: WATER	**Extraction Date**	: 06/18/24
Analysis Date (1)	: 06/19/24 14:02	**Analysis Date (2)**	: 06/19/24 14:02
Instrument ID (1)	: PEST22	**Instrument ID (2)**	: PEST22

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1935934-2LCS	WG1935934-2	06/19/24 14:21	06/19/24 14:21
WG1935934-3LCSD	WG1935934-3	06/19/24 14:40	06/19/24 14:40
EB_06132024	L2433375-01	06/19/24 20:14	06/19/24 20:14
DUP_06132024	L2433375-02	06/19/24 20:33	06/19/24 20:33
PZ-5	L2433375-03	06/19/24 20:51	06/19/24 20:51
MW-12S	L2433375-05	06/19/24 21:10	06/19/24 21:10
MW-4S	L2433375-07	06/19/24 22:06	06/19/24 22:06
MW-12D	L2433375-06	06/20/24 11:49	06/20/24 11:49

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936519-1	**Lab File ID**	: 22240619a-91
Matrix	: WATER	**Extraction Date**	: 06/19/24
Analysis Date (1)	: 06/20/24 16:51	**Analysis Date (2)**	: 06/20/24 16:51
Instrument ID (1)	: PEST22	**Instrument ID (2)**	: PEST22

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1936519-2LCS	WG1936519-2	06/20/24 17:10	06/20/24 17:10
WG1936519-3LCSD	WG1936519-3	06/20/24 17:28	06/20/24 17:28
MW-5D	L2433375-04	06/20/24 19:20	06/20/24 19:20
MW-5DMS	WG1936519-4	06/20/24 19:39	06/20/24 19:39
MW-5DMSD	WG1936519-5	06/20/24 19:57	06/20/24 19:57
MW-4D2	L2433375-08	06/20/24 20:16	06/20/24 20:16

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Initial Calib. Date(s)**	: 04/12/24 04/12/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1816363-1	04/12/24 06:35
Herbicides L2	R1816363-2	04/12/24 06:54
Herbicides L3	R1816363-3	04/12/24 07:12
Herbicides L4	R1816363-4	04/12/24 07:31
Herbicides L5	R1816363-5	04/12/24 07:49
Herbicides L6	R1816363-6	04/12/24 08:08
R1816363-7 ICV	R1816363-7	04/12/24 08:26
WG1936304-2 CCAL	WG1936304-2	06/19/24 13:07
WG1935934-1 BLANK	WG1935934-1	06/19/24 14:02
WG1935934-2 LCS	WG1935934-2	06/19/24 14:21
WG1935934-3 LCSD	WG1935934-3	06/19/24 14:40
WG1936304-3 CCAL	WG1936304-3	06/19/24 18:04
EB_06132024	L2433375-01	06/19/24 20:14
DUP_06132024	L2433375-02	06/19/24 20:33
PZ-5	L2433375-03	06/19/24 20:51
MW-12S	L2433375-05	06/19/24 21:10
WG1936304-4 CCAL	WG1936304-4	06/19/24 21:29
MW-4S	L2433375-07	06/19/24 22:06
WG1936304-6 CCAL	WG1936304-6	06/20/24 05:13
MW-12D	L2433375-06	06/20/24 11:49
WG1936304-7 CCAL	WG1936304-7	06/20/24 15:37
WG1936519-1 BLANK	WG1936519-1	06/20/24 16:51
WG1936519-2 LCS	WG1936519-2	06/20/24 17:10
WG1936519-3 LCSD	WG1936519-3	06/20/24 17:28
MW-5D	L2433375-04	06/20/24 19:20
MW-5D MS	WG1936519-4	06/20/24 19:39
MW-5D MSD	WG1936519-5	06/20/24 19:57
MW-4D2	L2433375-08	06/20/24 20:16

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
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Herbicides -EPA 8151A Long List (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Herbicides -EPA 8151A Long List (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 20:14
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-41	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 20:33
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-42	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 20:51
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-43	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 19:20
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-99	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 21:10
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-44	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:49
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-77	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 22:06
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-47	**Analyst**	: PEG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 20:16
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-102	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935934-1	**Date Collected**	: NA
Client ID	: WG1935934-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 14:02
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-21	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936519-1	**Date Collected**	: NA
Client ID	: WG1936519-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 16:51
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-91	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-41.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 20:14
Operator : pest22:jag
Sample : L2433375-01,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:01 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.531	8.527	798.0E6	838.3E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 834282280				Recovery =	95.65%	
	Standard Area 1 : #2 = 846610973				Recovery =	99.02%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.992	7.458	311.6E6	295.9E6	0.475M4	0.436M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	95.00%	87.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

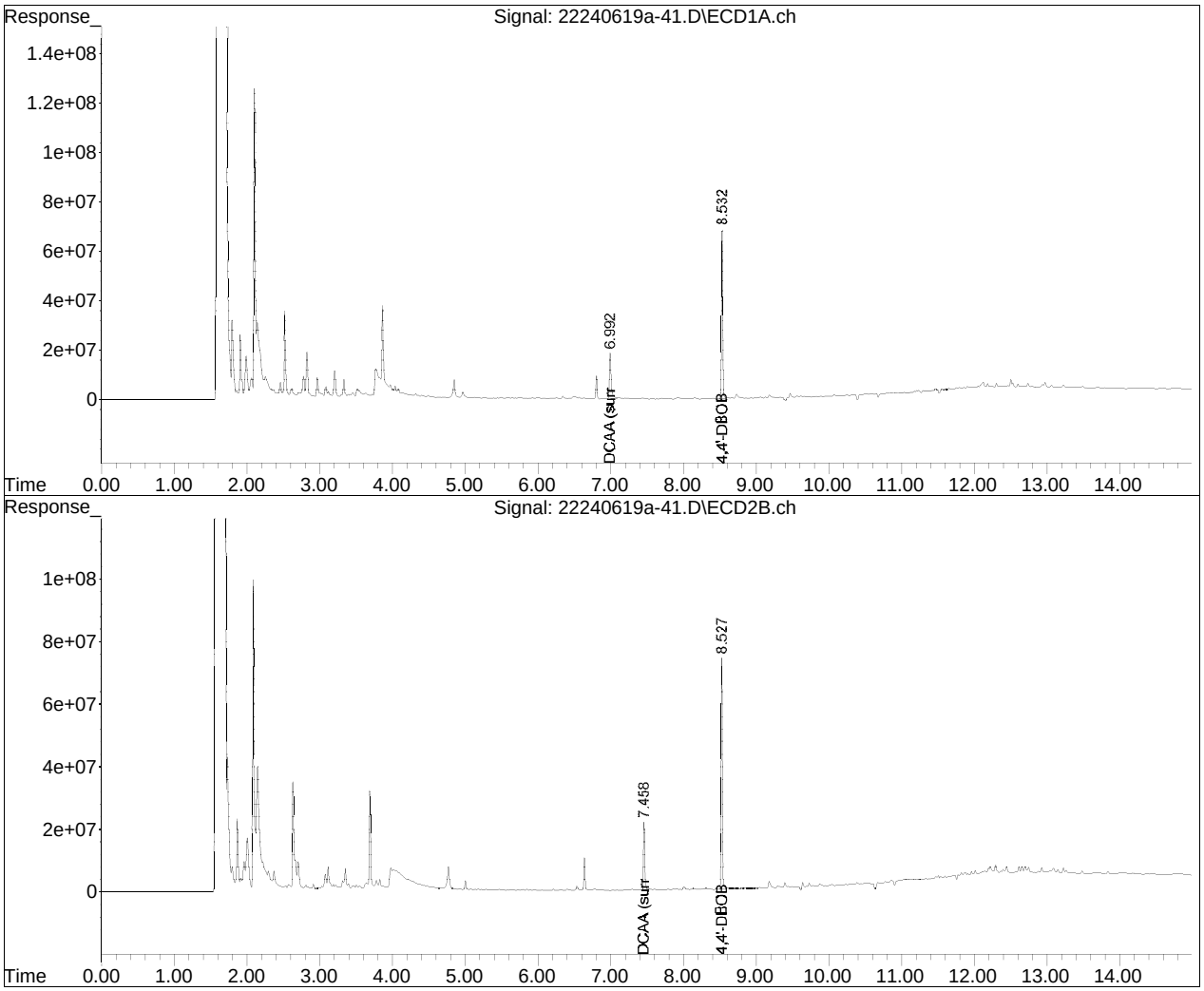
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-41.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 20:14
Operator : pest22:jag
Sample : L2433375-01,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:01 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

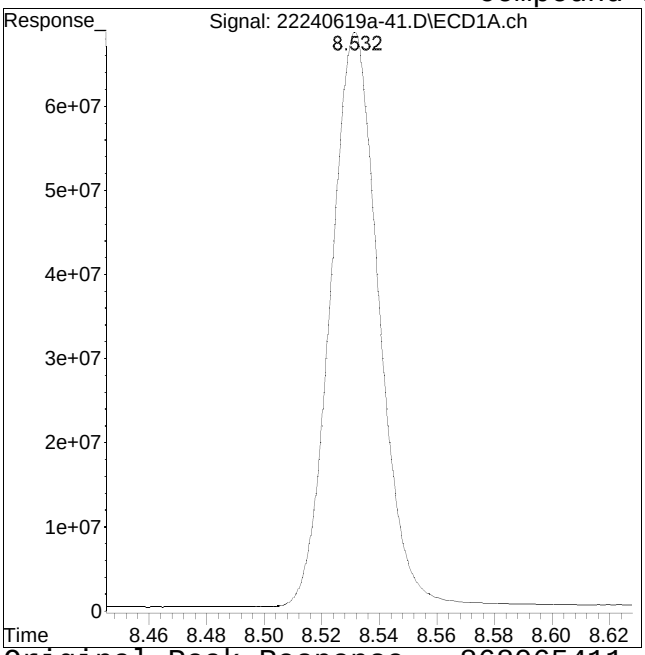
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

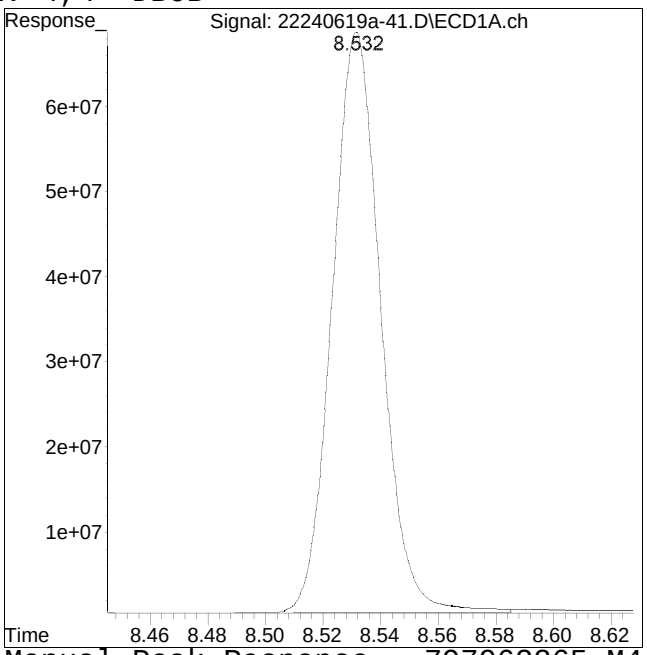


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-41.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:14 Instrument : Pest22
Sample : L2433375-01,42,, Quant Date : 6/19/2024 9:46 pm

Compound #1: 4,4'-DBOB



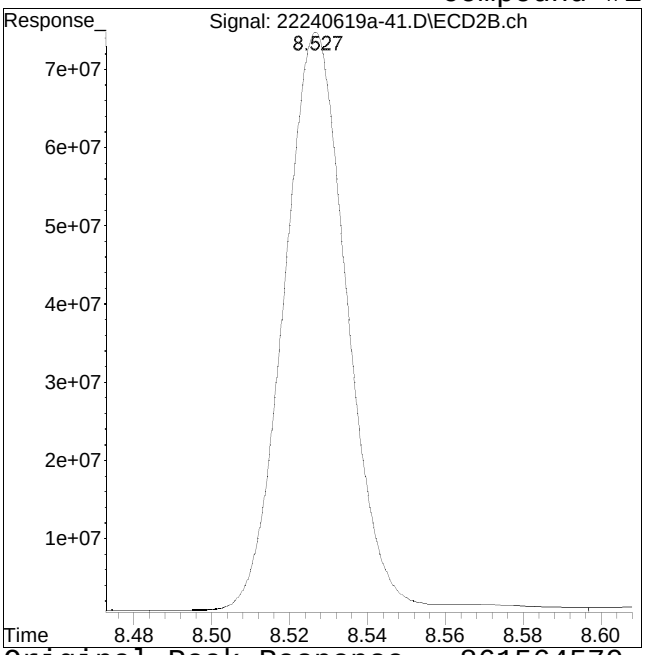


Original Peak Response = 868065411 Manual Peak Response = 797962265 M4
M4 = Poor automated baseline construction.

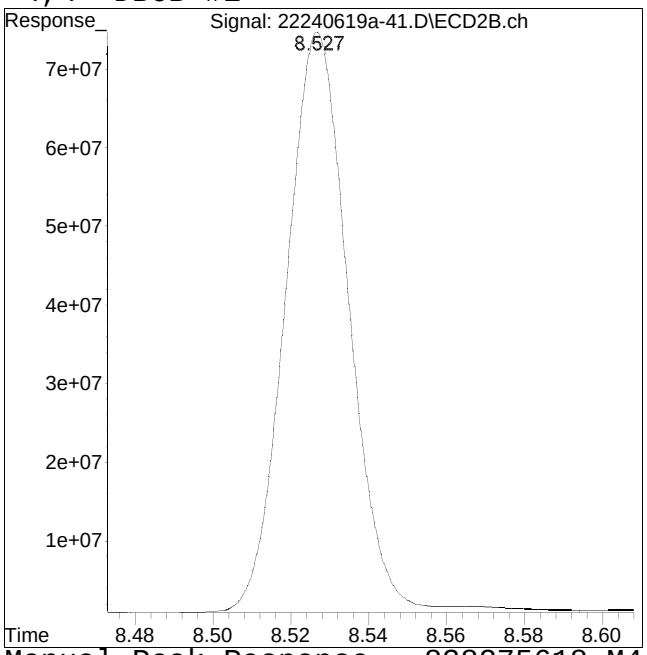
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-41.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:14 Instrument : Pest22
Sample : L2433375-01,42,, Quant Date : 6/19/2024 9:46 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 861564570



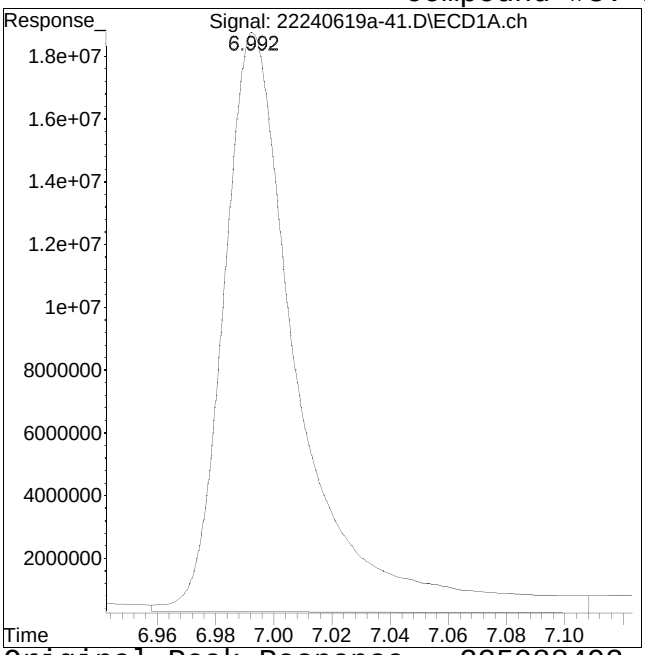
Manual Peak Response = 838275618 M4

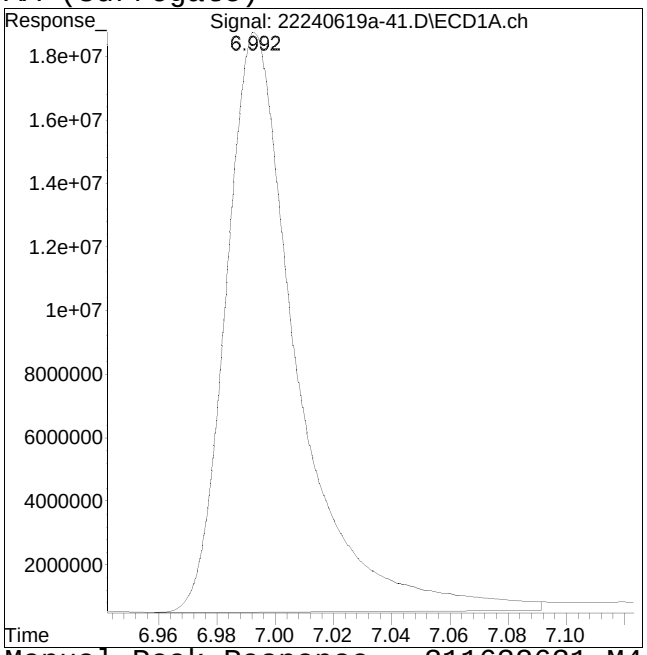
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-41.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:14 Instrument : Pest22
Sample : L2433375-01,42,, Quant Date : 6/19/2024 9:46 pm

Compound #3: DCAA (surrogate)



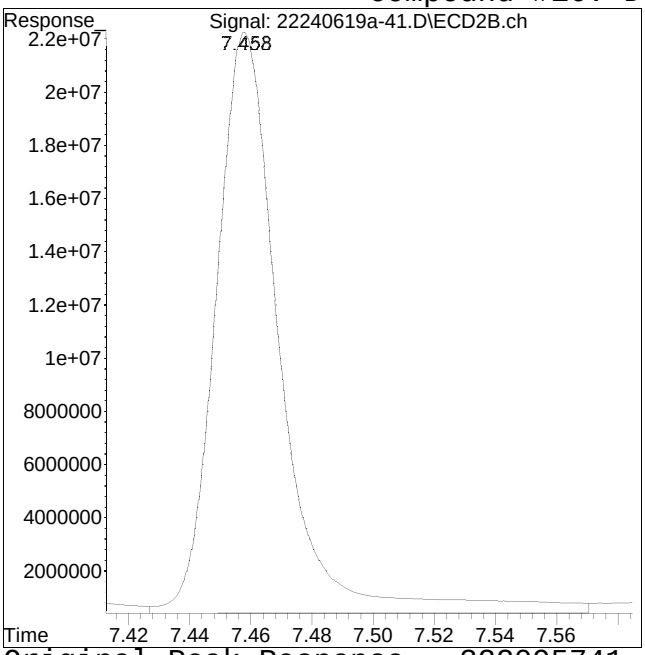


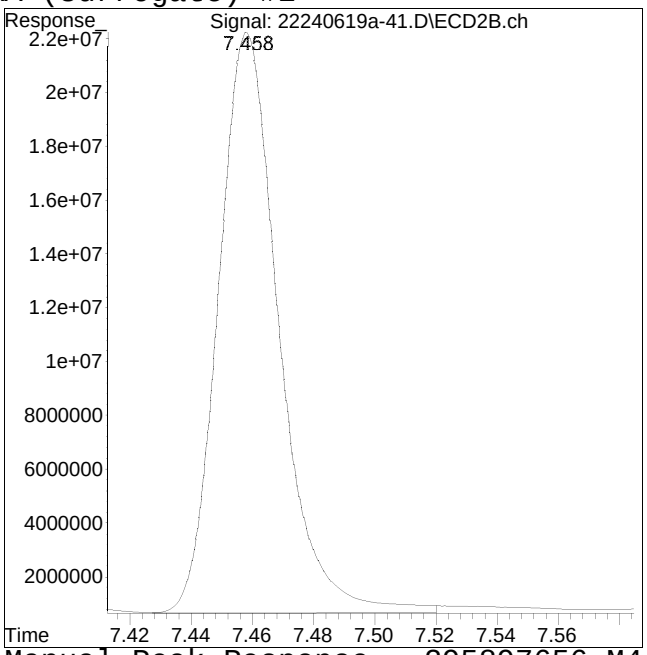
Original Peak Response = 335988493 Manual Peak Response = 311632631 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-41.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:14 Instrument : Pest22
Sample : L2433375-01,42,, Quant Date : 6/19/2024 9:46 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 322095741 Manual Peak Response = 295897656 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-42.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 20:33
Operator : pest22:jag
Sample : L2433375-02,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:03 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	843.9E6	882.7E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 834282280				Recovery = 101.15%		
	Standard Area 1 : #2 = 846610973				Recovery = 104.26%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.991	7.458	338.0E6	324.2E6	0.487M4	0.453M4
	Spiked Amount	0.500	Range 30 - 150		Recovery = 97.40%		90.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

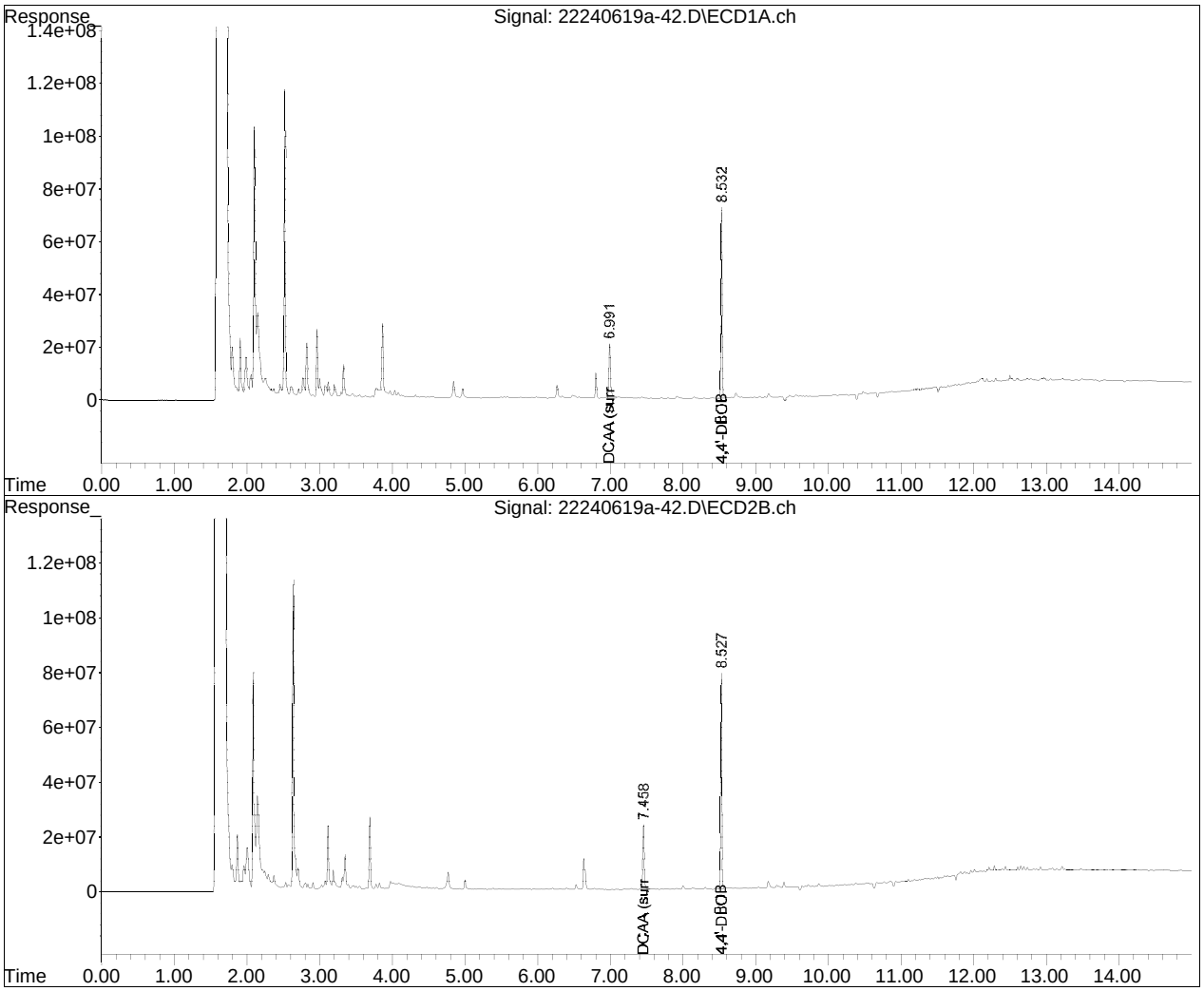
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-42.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 20:33
Operator : pest22:jag
Sample : L2433375-02,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:03 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

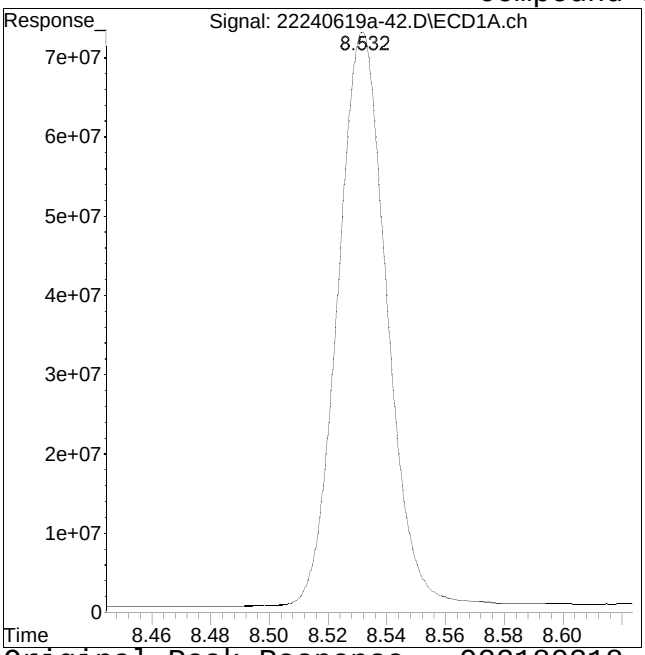
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

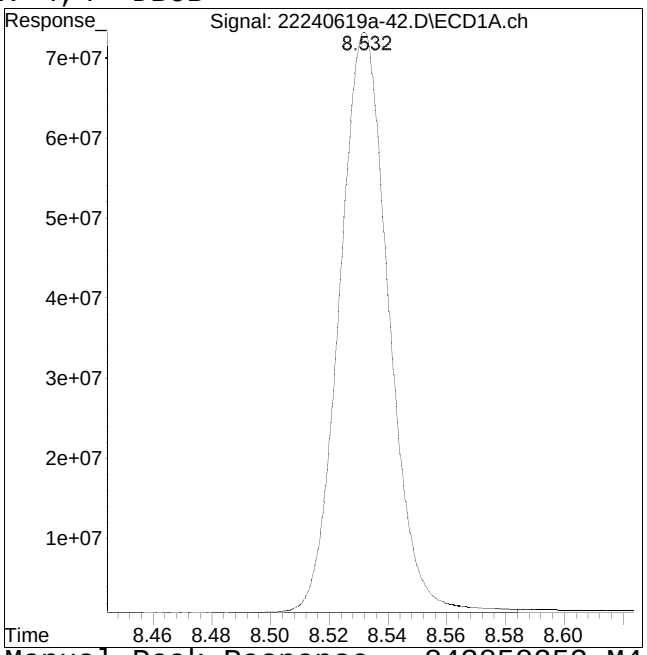


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-42.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:33 Instrument : Pest22
Sample : L2433375-02,42,, Quant Date : 6/19/2024 9:46 pm

Compound #1: 4,4'-DBOB



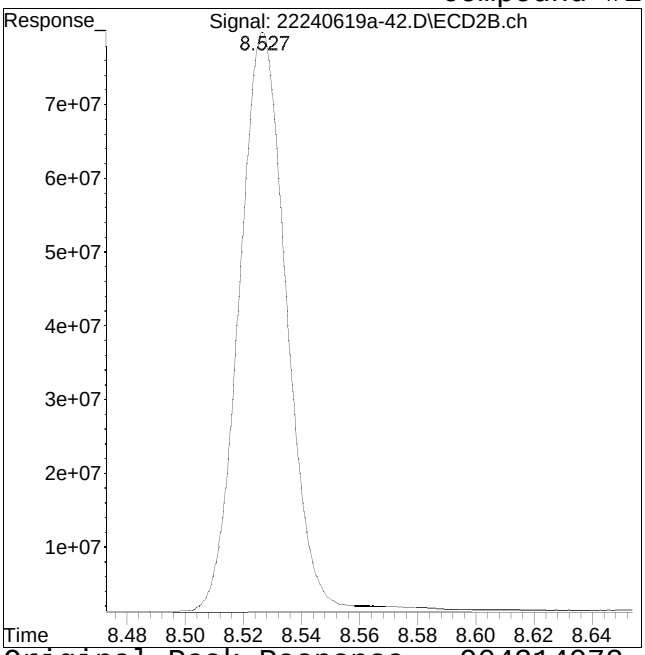


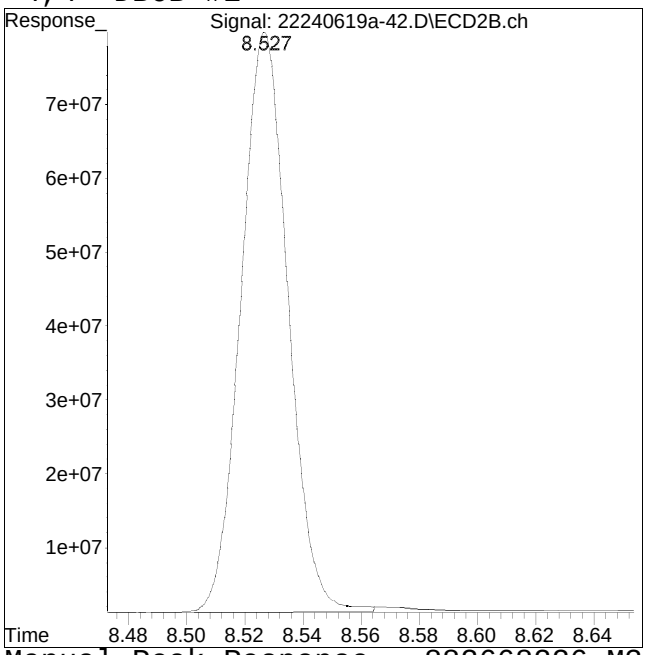
Original Peak Response = 922180318 Manual Peak Response = 843858253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-42.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:33 Instrument : Pest22
Sample : L2433375-02,42,, Quant Date : 6/19/2024 9:46 pm

Compound #14: 4,4'-DBOB #2



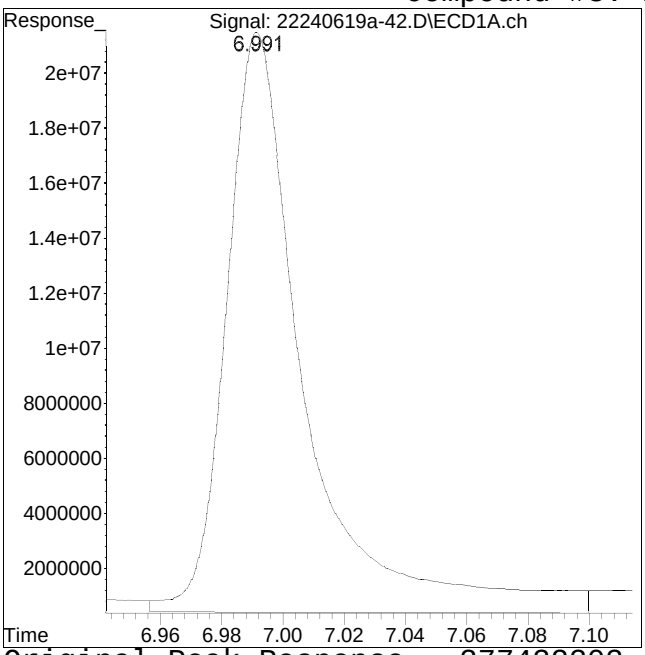


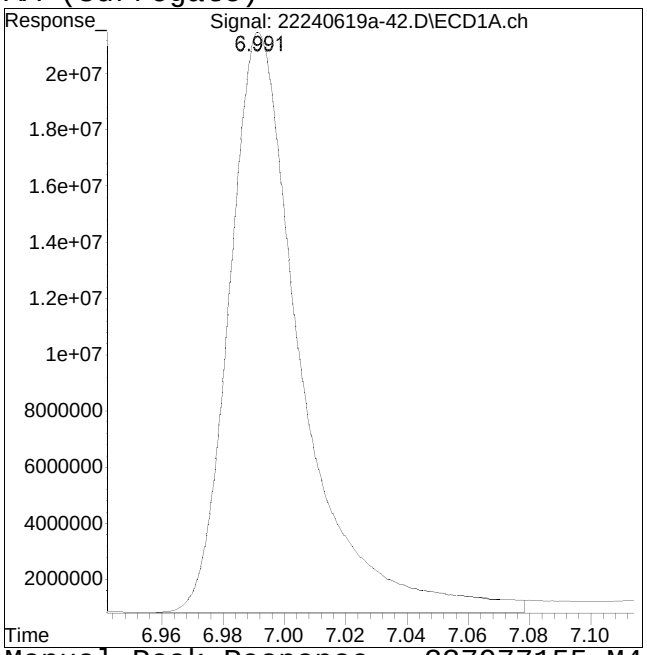
Original Peak Response = 904314972 Manual Peak Response = 882668226 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-42.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:33 Instrument : Pest22
Sample : L2433375-02,42,, Quant Date : 6/19/2024 9:46 pm

Compound #3: DCAA (surrogate)



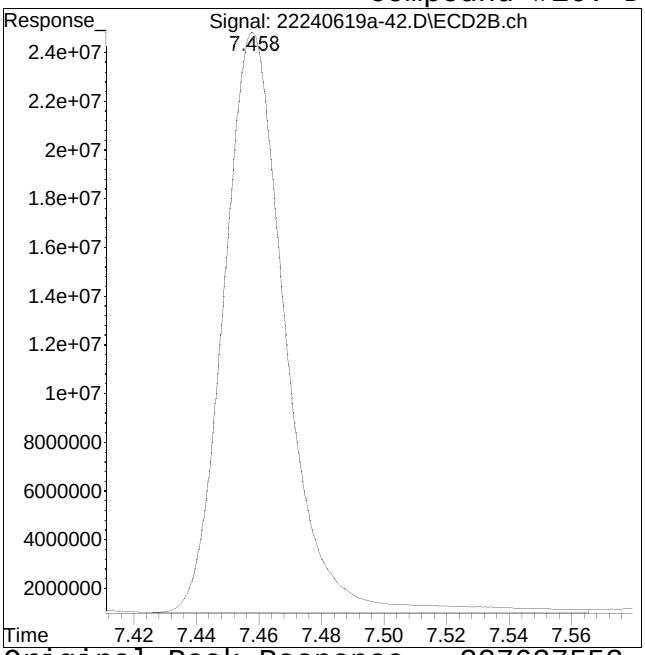


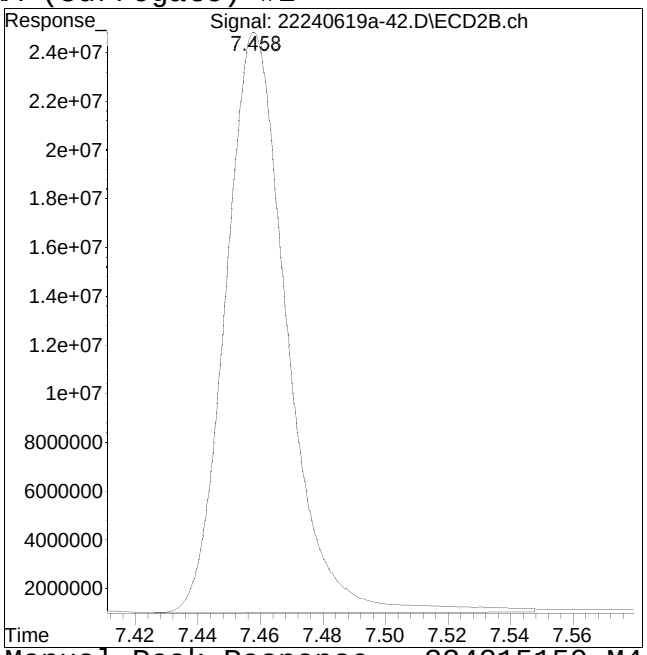
Original Peak Response = 377432303 Manual Peak Response = 337977155 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-42.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:33 Instrument : Pest22
Sample : L2433375-02,42,, Quant Date : 6/19/2024 9:46 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 327637553 Manual Peak Response = 324215150 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-43.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 20:51
Operator : pest22:jag
Sample : L2433375-03,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:04 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	891.0E6	906.6E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 834282280				Recovery = 106.80%		
	Standard Area 1 : #2 = 846610973				Recovery = 107.08%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.994	7.459	200.0E6	198.4E6	0.273M4	0.270M3
	Spiked Amount	0.500	Range 30 - 150		Recovery = 54.60%		54.00%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

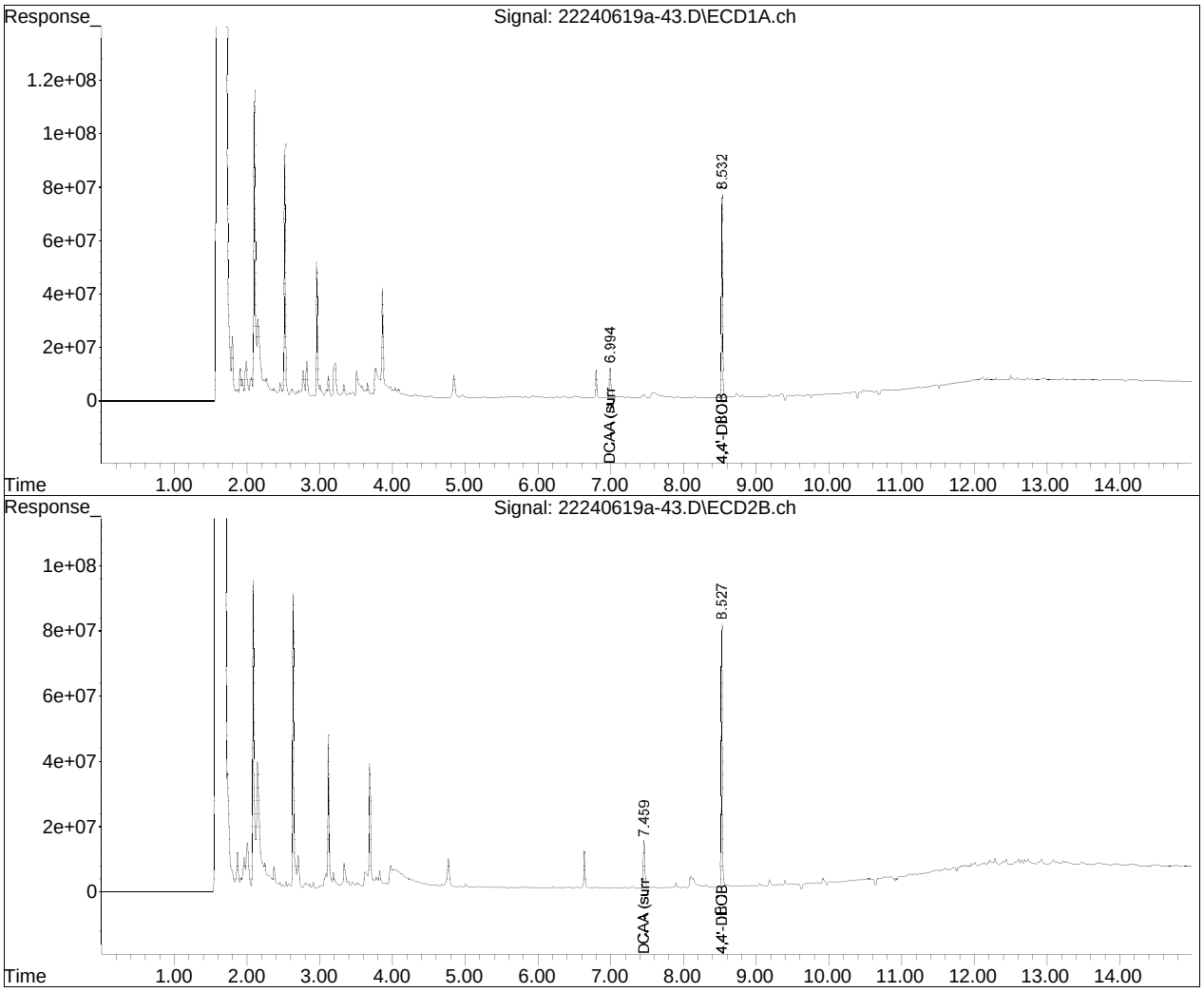
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-43.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 20:51
Operator : pest22:jag
Sample : L2433375-03,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:04 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

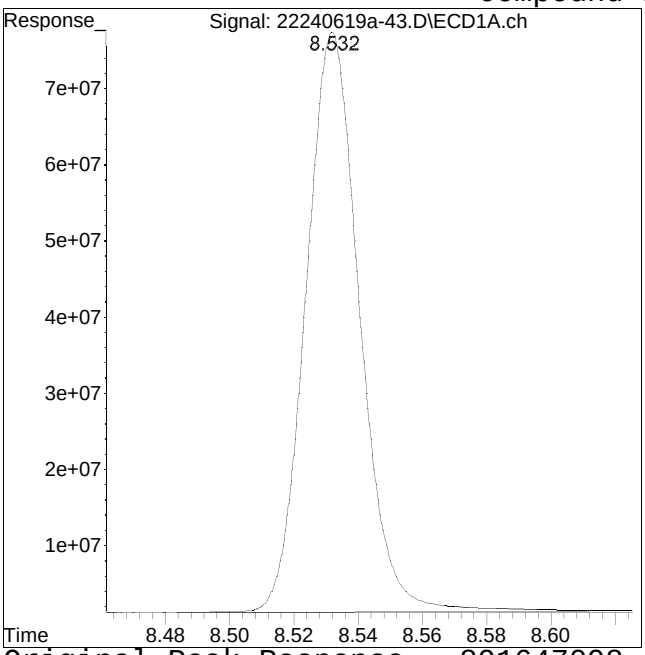
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



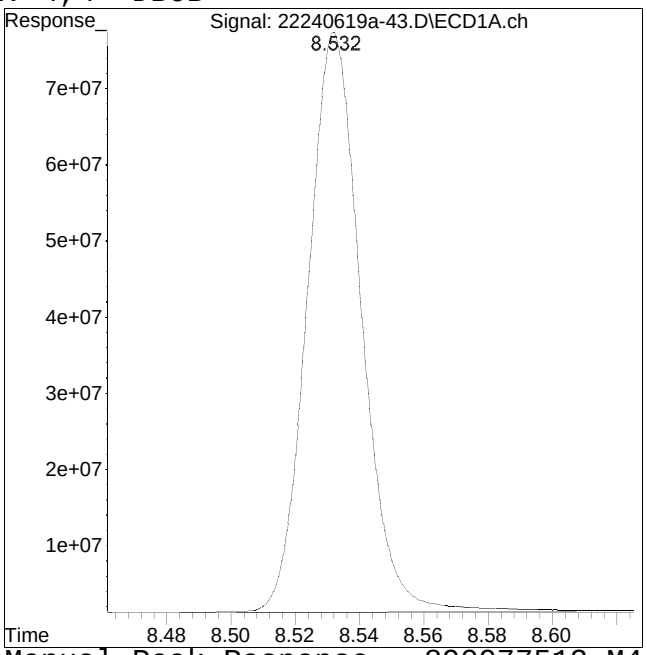
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-43.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:51 Instrument : Pest22
Sample : L2433375-03,42,, Quant Date : 6/19/2024 9:46 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 891647098



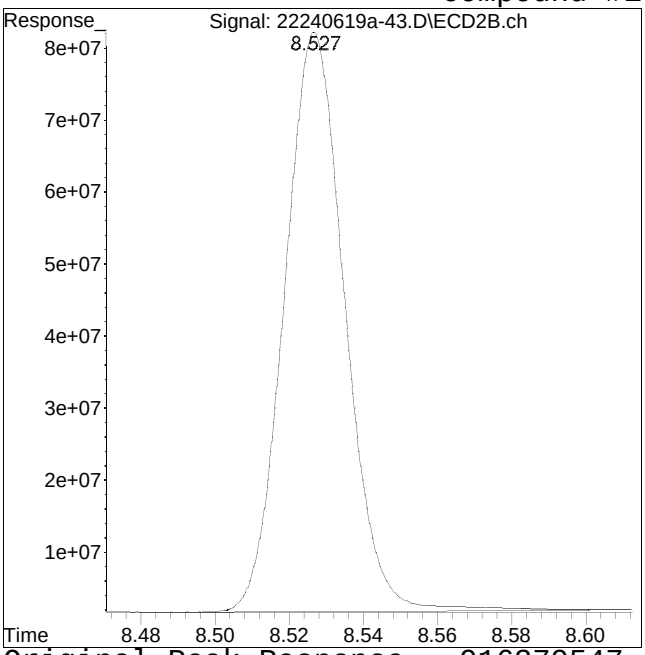
Manual Peak Response = 890977512 M4

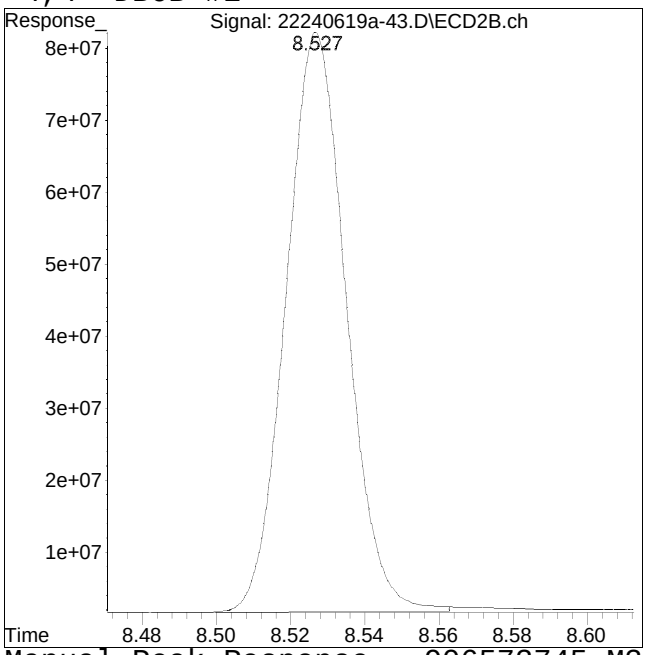
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-43.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:51 Instrument : Pest22
Sample : L2433375-03,42,, Quant Date : 6/19/2024 9:46 pm

Compound #14: 4,4'-DBOB #2



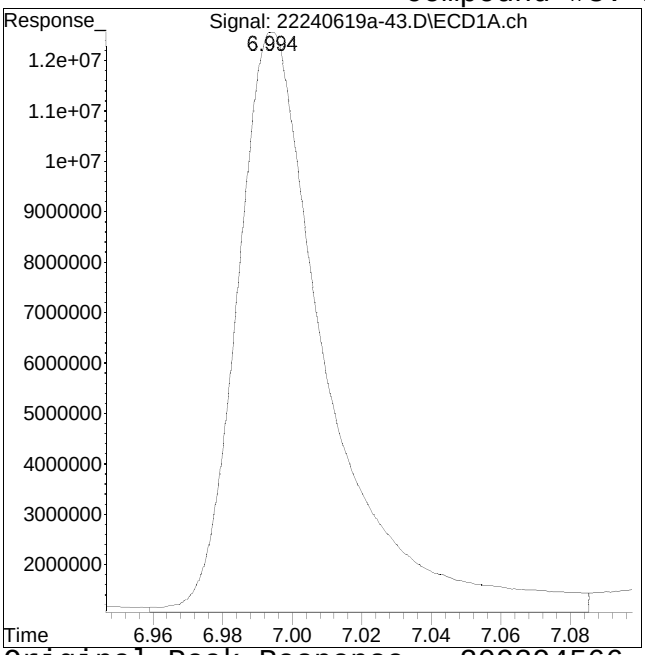


Original Peak Response = 916379547 Manual Peak Response = 906573745 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

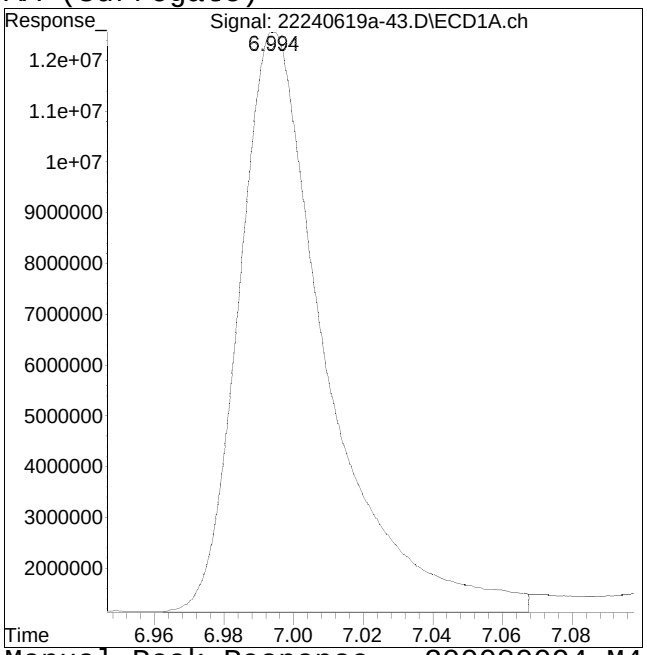
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-43.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:51 Instrument : Pest22
Sample : L2433375-03,42,, Quant Date : 6/19/2024 9:46 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 209394566



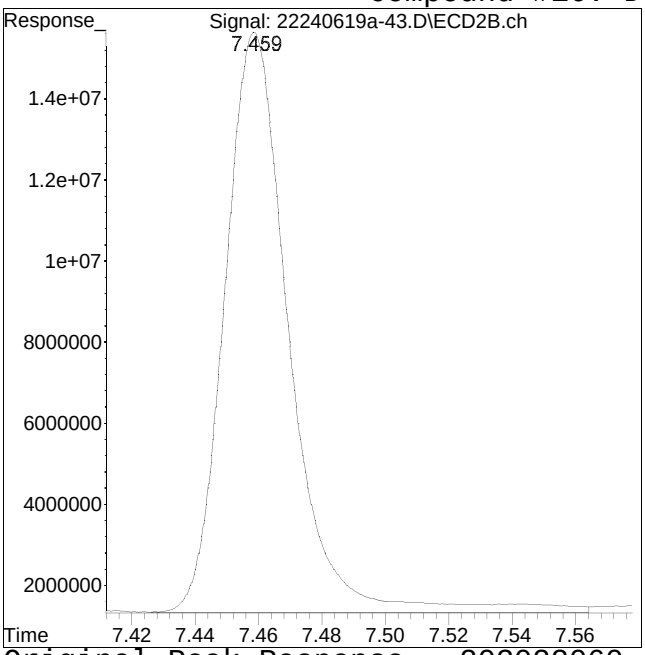
Manual Peak Response = 200030094 M4

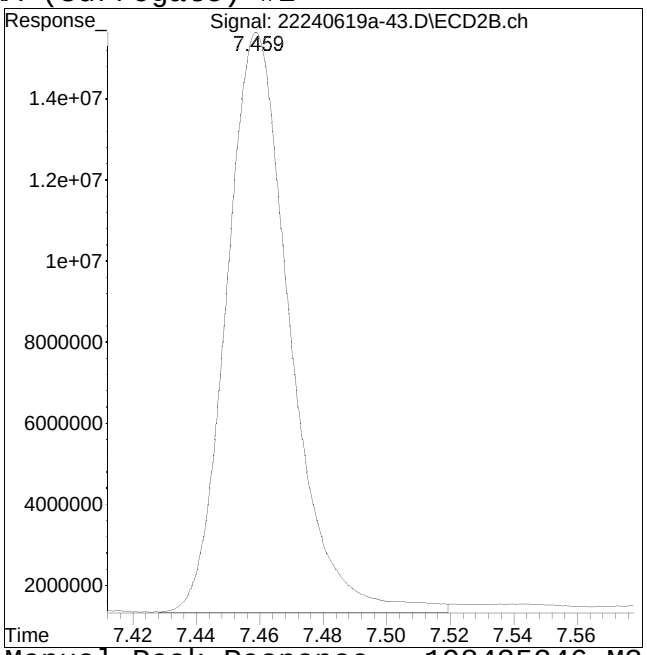
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-43.D Operator : pest22:jag
Date Inj'd : 6/19/2024 20:51 Instrument : Pest22
Sample : L2433375-03,42,, Quant Date : 6/19/2024 9:46 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 203022060 Manual Peak Response = 198435246 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-44.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 21:10
Operator : pest22:jag
Sample : L2433375-05,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:05 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.531	8.527	902.4E6	907.8E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 834282280				Recovery = 108.17%		
	Standard Area 1 : #2 = 846610973				Recovery = 107.23%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.993	7.458	191.1E6	186.4E6	0.257M4	0.253M3
	Spiked Amount	0.500	Range 30 - 150		Recovery = 51.40%		50.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

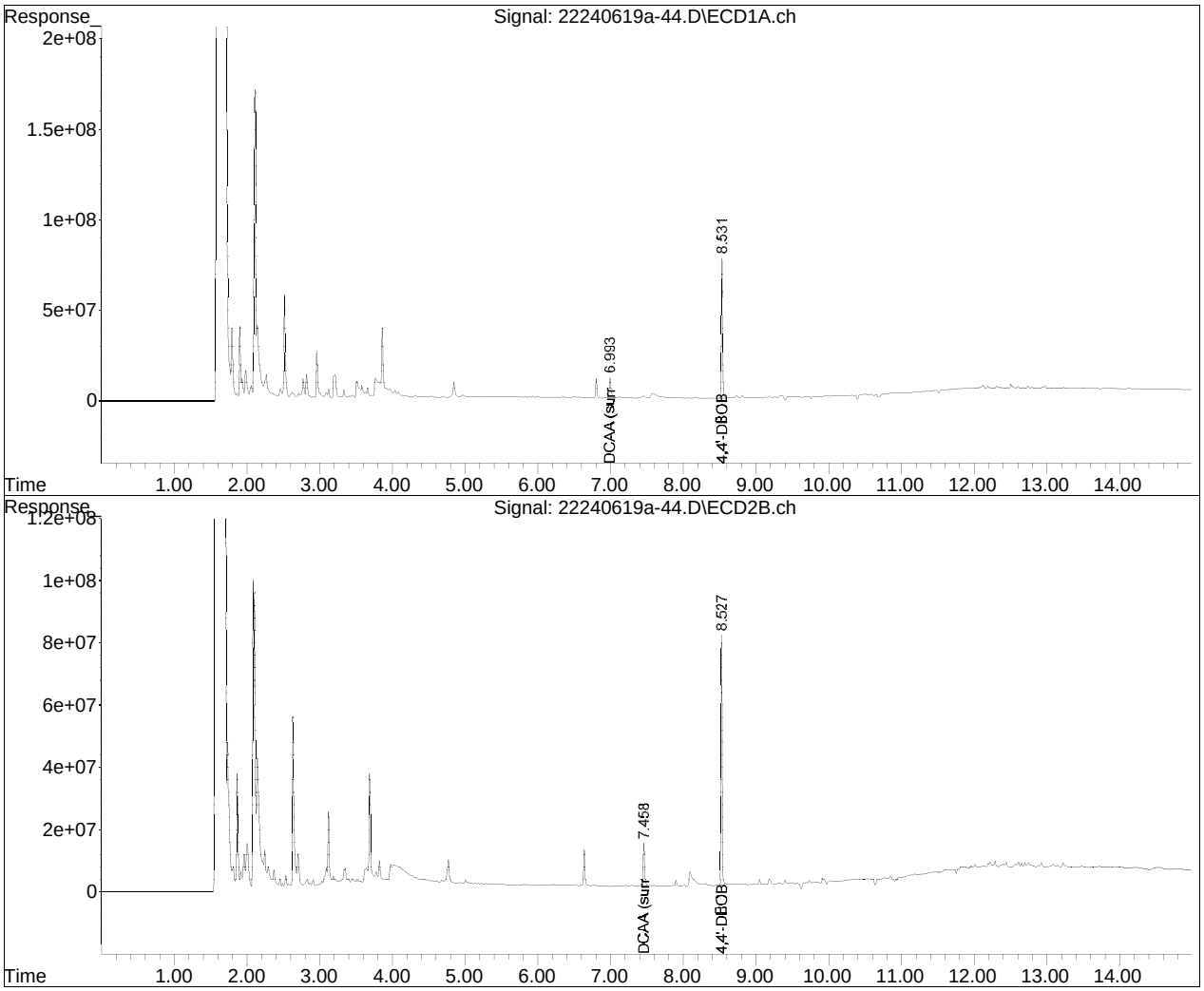
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-44.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 21:10
Operator : pest22:jag
Sample : L2433375-05,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:05 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

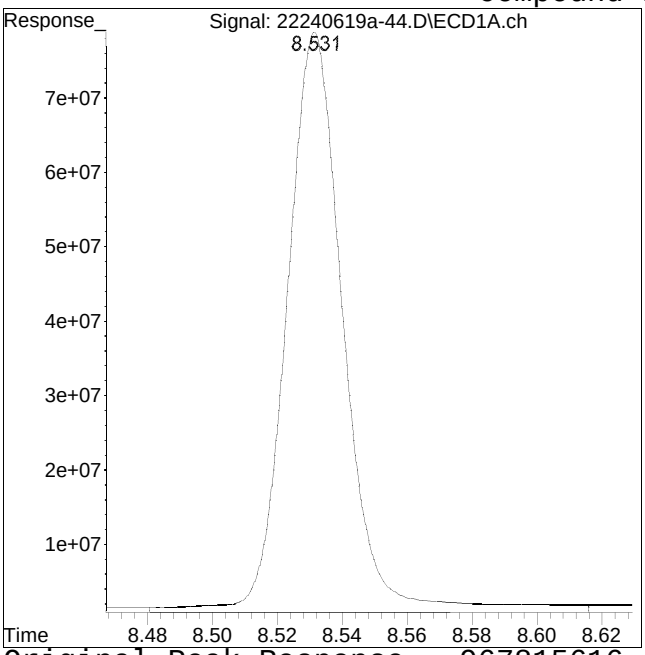
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



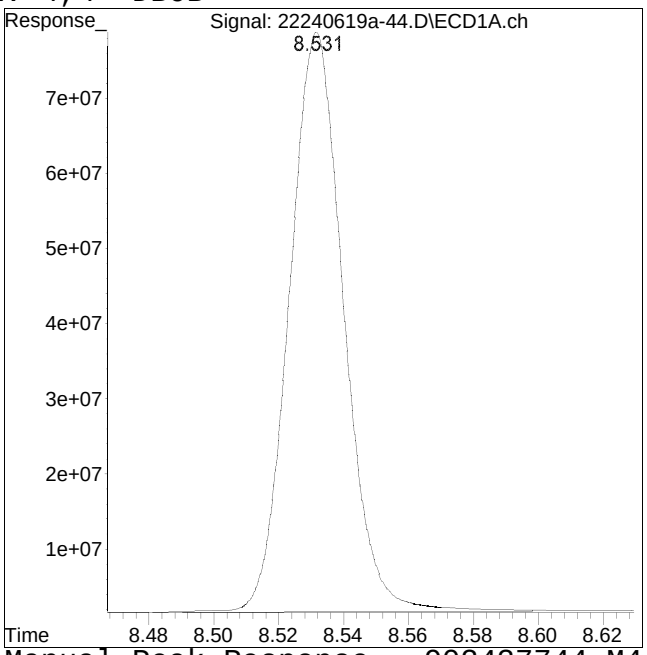
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-44.D Operator : pest22:jag
Date Inj'd : 6/19/2024 21:10 Instrument : Pest22
Sample : L2433375-05,42,, Quant Date : 6/19/2024 9:46 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 967815616



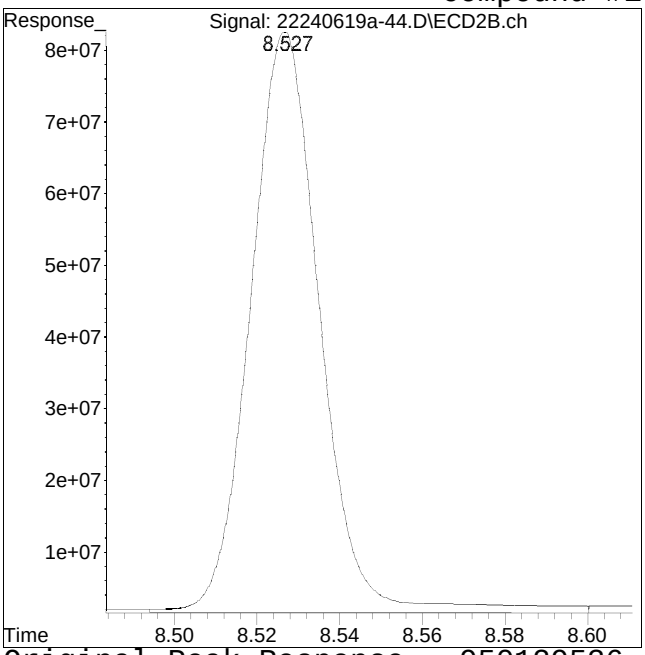
Manual Peak Response = 902437744 M4

M4 = Poor automated baseline construction.

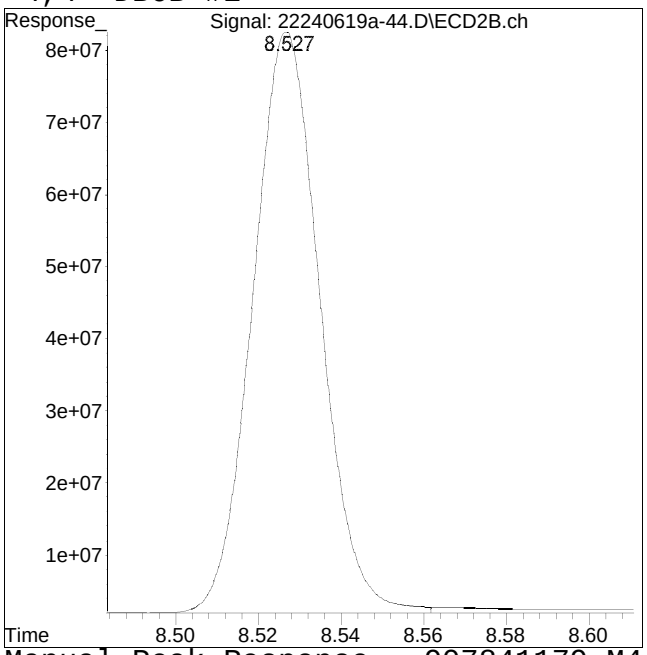
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-44.D Operator : pest22:jag
Date Inj'd : 6/19/2024 21:10 Instrument : Pest22
Sample : L2433375-05,42,, Quant Date : 6/19/2024 9:46 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 950129536



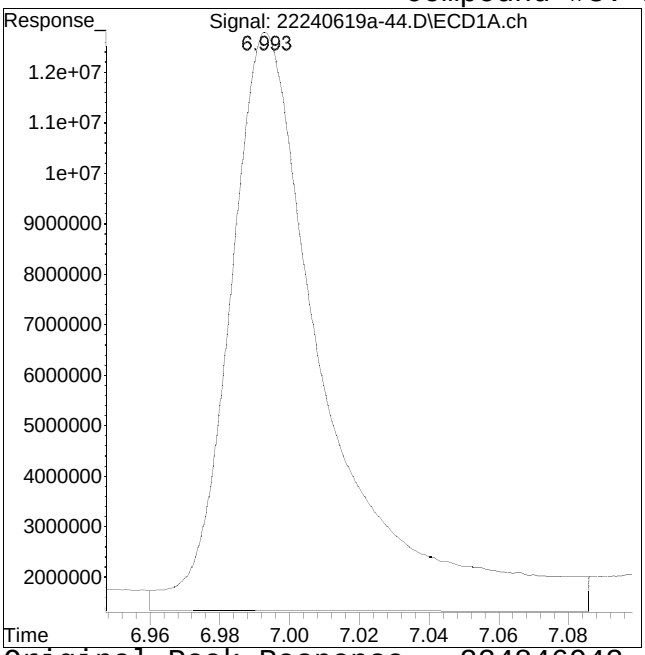
Manual Peak Response = 907841179 M4

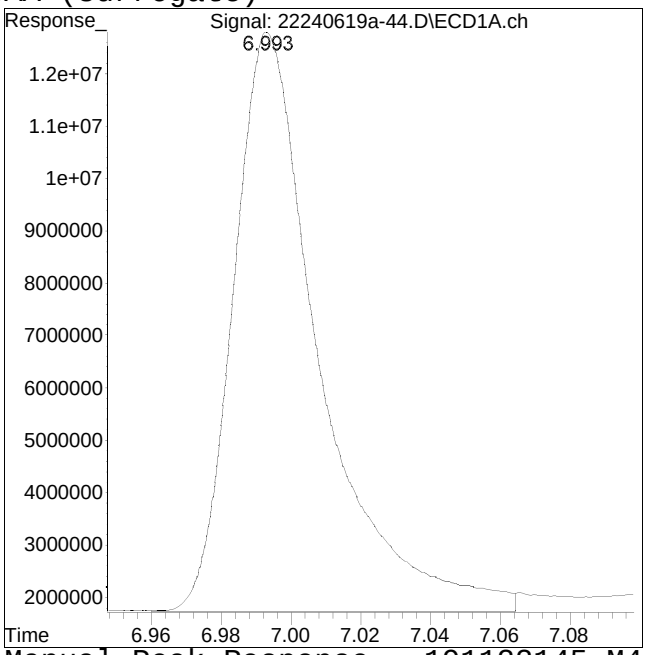
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-44.D Operator : pest22:jag
Date Inj'd : 6/19/2024 21:10 Instrument : Pest22
Sample : L2433375-05,42,, Quant Date : 6/19/2024 9:46 pm

Compound #3: DCAA (surrogate)



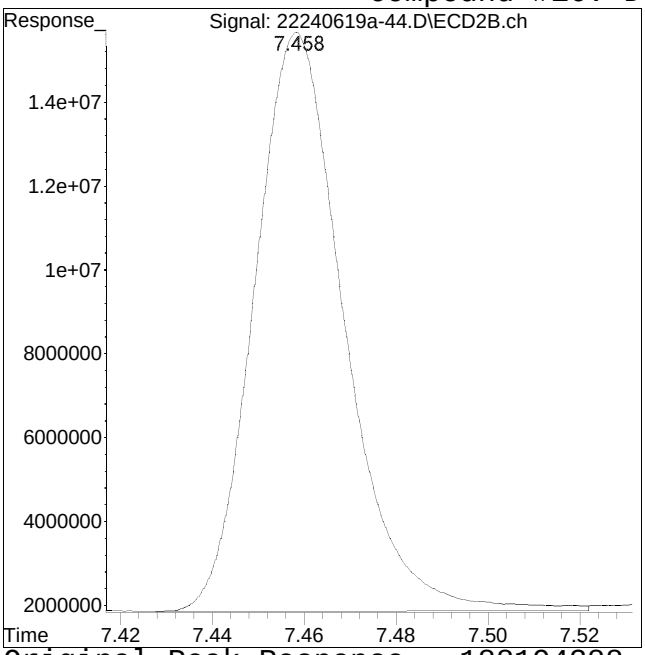


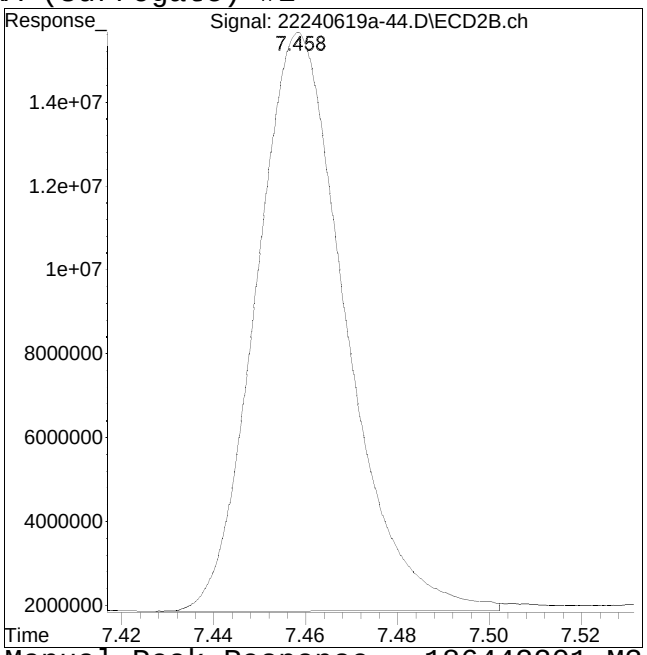
Original Peak Response = 224846943 Manual Peak Response = 191122145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-44.D Operator : pest22:jag
Date Inj'd : 6/19/2024 21:10 Instrument : Pest22
Sample : L2433375-05,42,, Quant Date : 6/19/2024 9:46 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 188194388 Manual Peak Response = 186442201 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-47.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 22:06
Operator : pest22:peg
Sample : L2433375-07,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 08:33:40 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-45.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.532	8.527	794.3E6	820.0E6	0.250M4	0.250M3
Standard Area 1 : #1 = 875968019				Recovery =	90.67%	
Standard Area 1 : #2 = 892330142				Recovery =	91.89%	
System Monitoring Compounds						
3) s DCAA (surrog	6.993	7.458	245.5E6	237.9E6	0.376M4	0.358M3
Spiked Amount	0.500	Range 30 - 150		Recovery =	75.20%	71.60%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

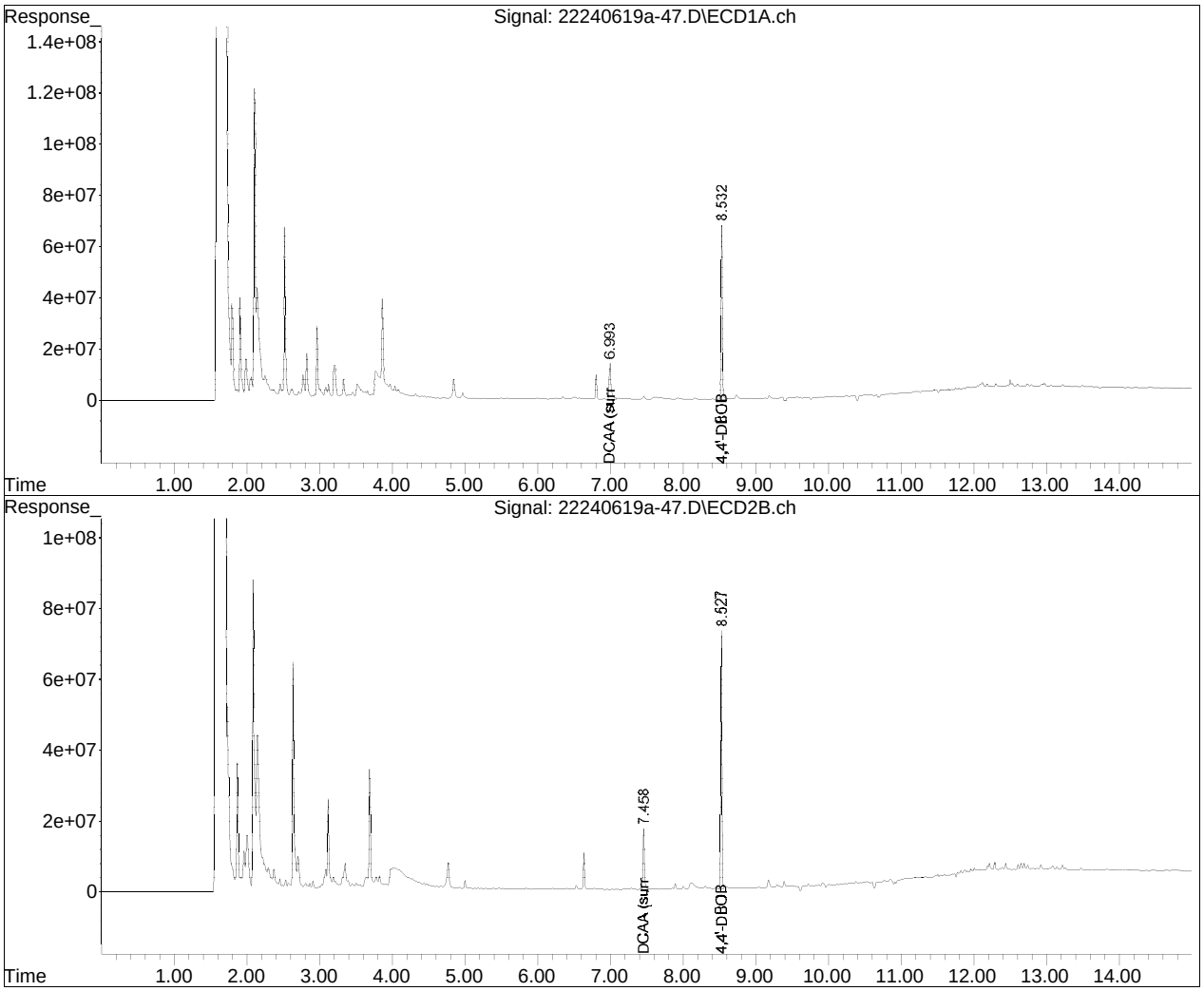
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-45.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-47.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 22:06
Operator : pest22:peg
Sample : L2433375-07,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 08:33:40 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

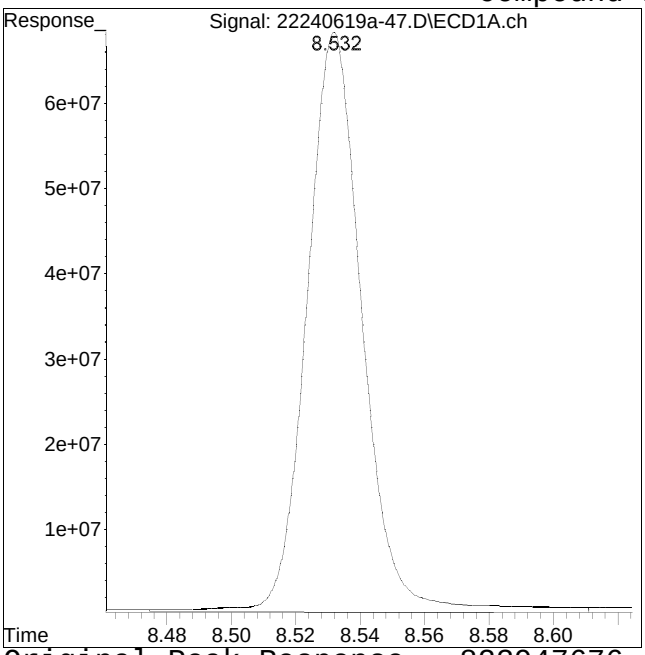
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

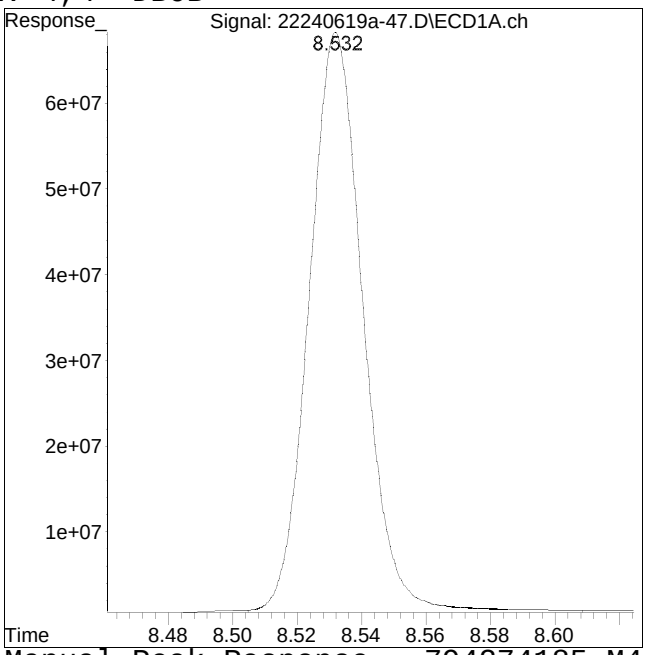


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-47.D Operator : pest22:peg
Date Inj'd : 6/19/2024 22:06 Instrument : Pest22
Sample : L2433375-07,42,, Quant Date : 6/20/2024 8:33 am

Compound #1: 4,4'-DBOB



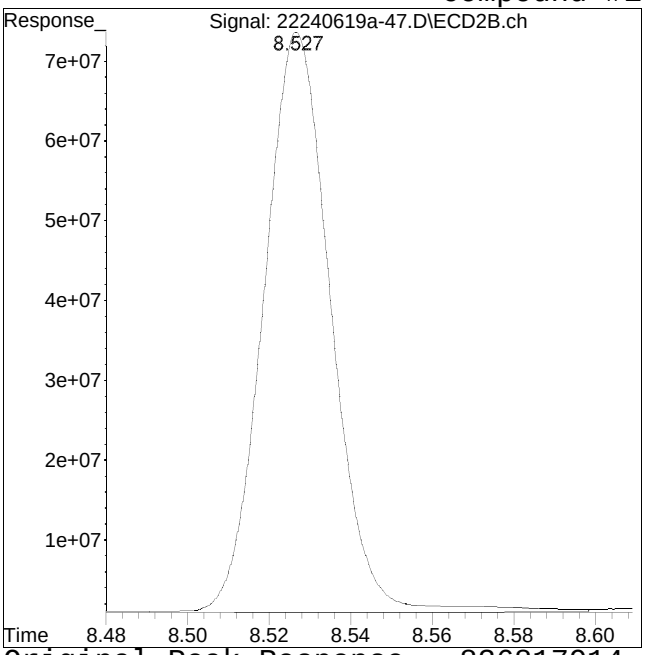


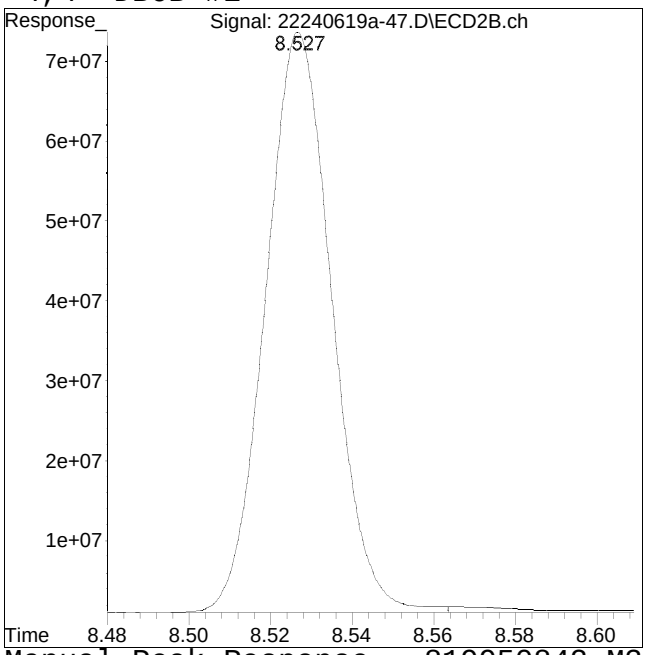
Original Peak Response = 823947676 Manual Peak Response = 794274185 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-47.D Operator : pest22:peg
Date Inj'd : 6/19/2024 22:06 Instrument : Pest22
Sample : L2433375-07,42,, Quant Date : 6/20/2024 8:33 am

Compound #14: 4,4'-DBOB #2



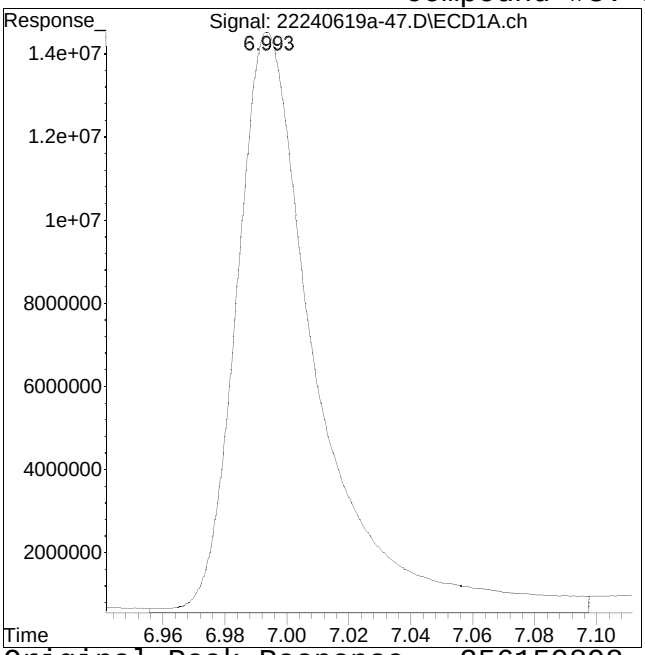


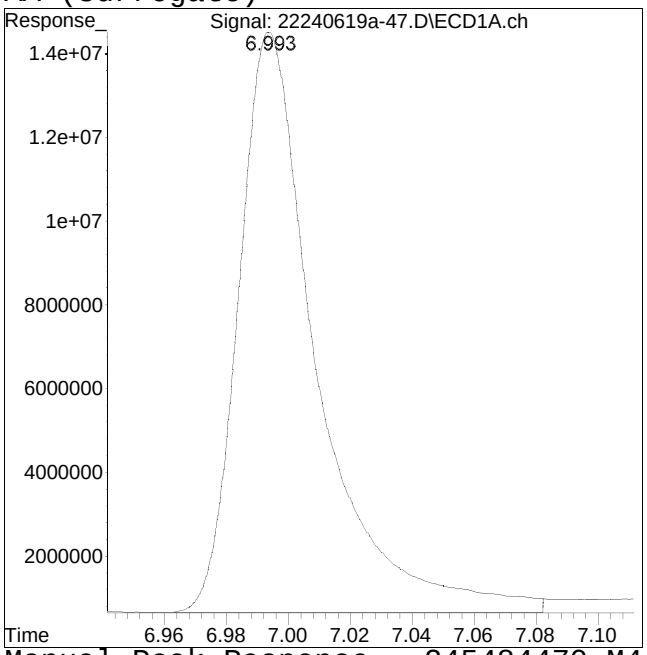
Original Peak Response = 836817914 Manual Peak Response = 819950842 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-47.D Operator : pest22:peg
Date Inj'd : 6/19/2024 22:06 Instrument : Pest22
Sample : L2433375-07,42,, Quant Date : 6/20/2024 8:33 am

Compound #3: DCAA (surrogate)



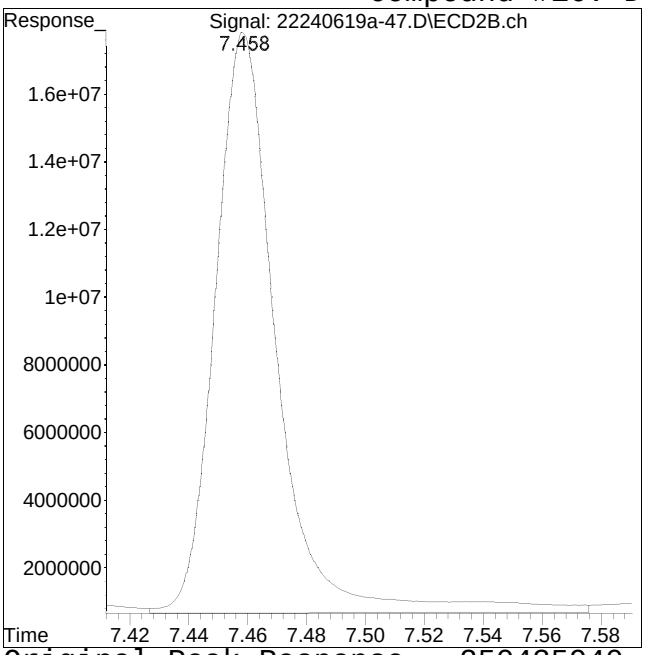


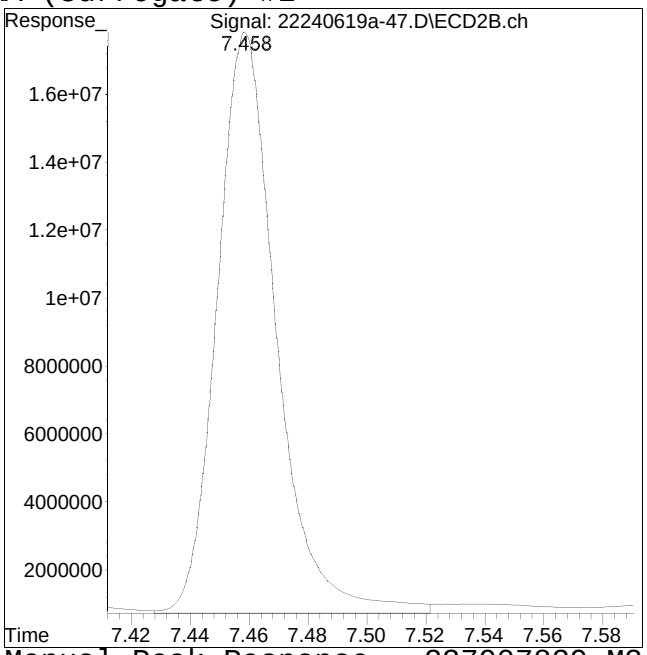
Original Peak Response = 256159898 Manual Peak Response = 245484470 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-47.D Operator : pest22:peg
Date Inj'd : 6/19/2024 22:06 Instrument : Pest22
Sample : L2433375-07,42,, Quant Date : 6/20/2024 8:33 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 250435940 Manual Peak Response = 237907829 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-77.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 11:49
Operator : pest22:akm
Sample : L2433375-06,42,, rv
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1936372,ical21040 (Sig #2)
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 13:27:04 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-70.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.543	8.528	866.3E6	917.2E6	0.250	0.250M3
Standard Area 1 : #1 = 921842632				Recovery =	93.98%	
Standard Area 1 : #2 = 966090463				Recovery =	94.94%	
System Monitoring Compounds						
3) s DCAA (surrog	7.001	7.458	216.7E6	217.9E6	0.304M4	0.293M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	60.80%	58.60%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

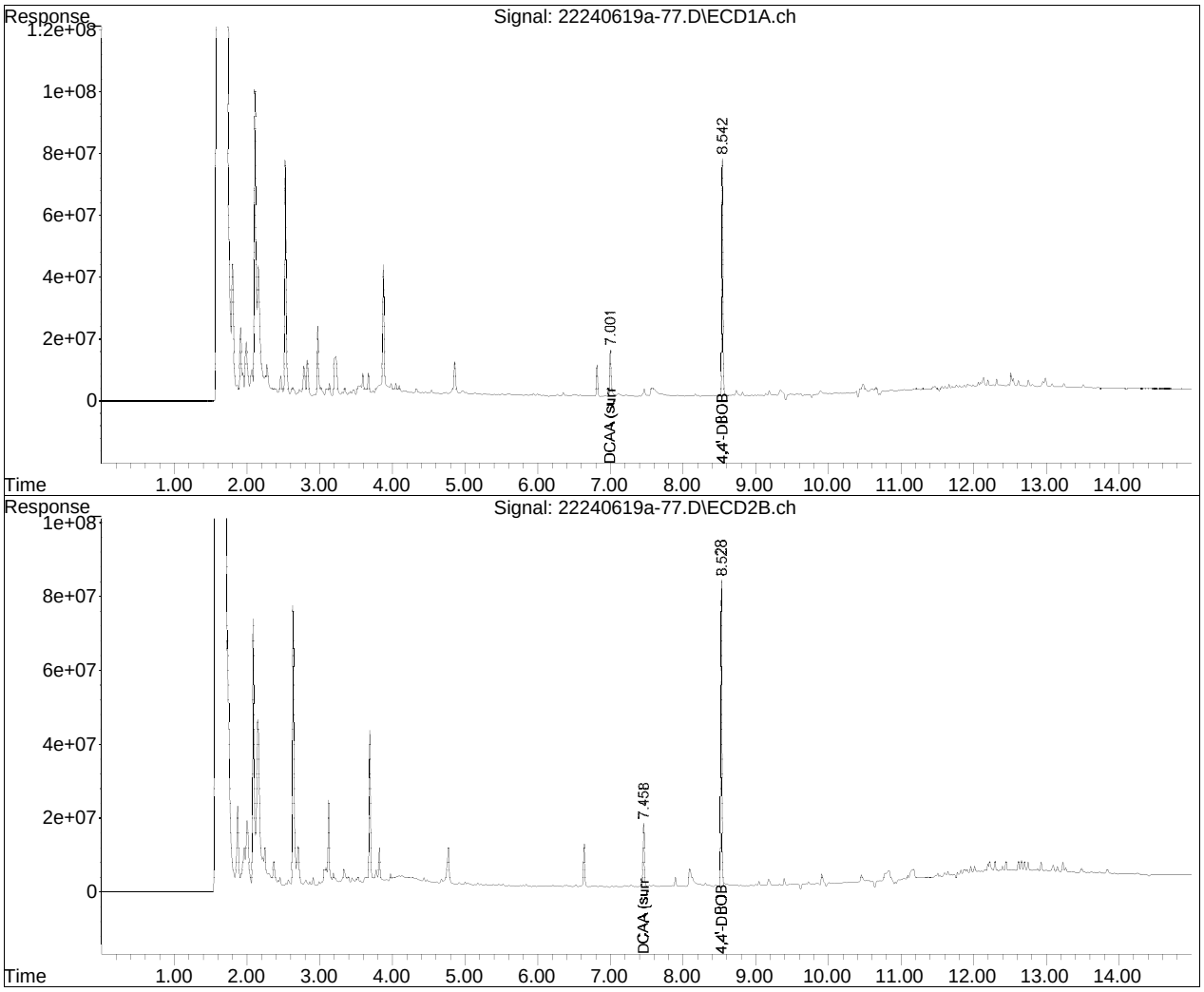
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-70.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-77.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 11:49
Operator : pest22:akm
Sample : L2433375-06,42,, rv
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1936372,ical21
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 13:27:04 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

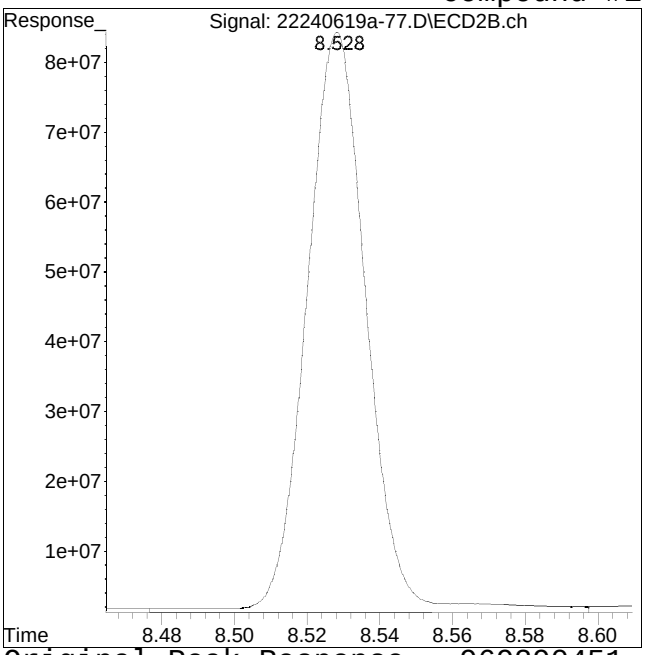
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

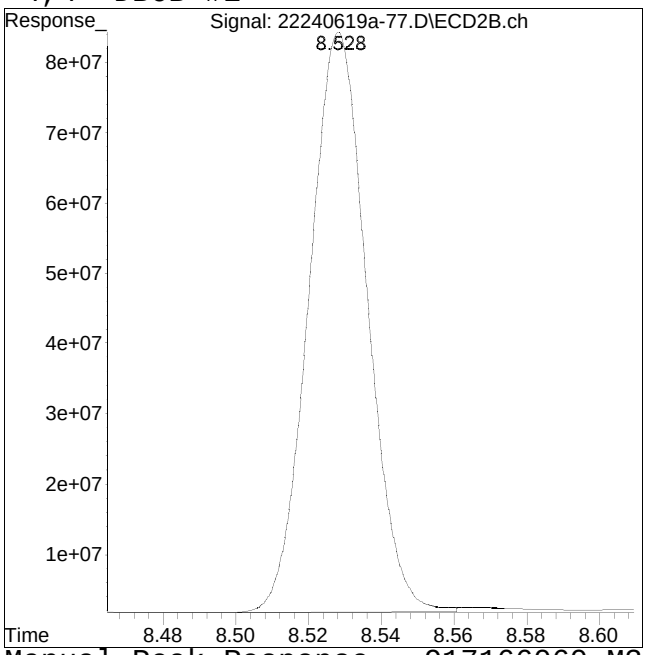


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-77.D Operator : pest22:akm
Date Inj'd : 6/20/2024 11:49 Instrument : Pest22
Sample : L2433375-06,42,, rv Quant Date : 6/20/2024 1:27 pm

Compound #14: 4,4'-DBOB #2



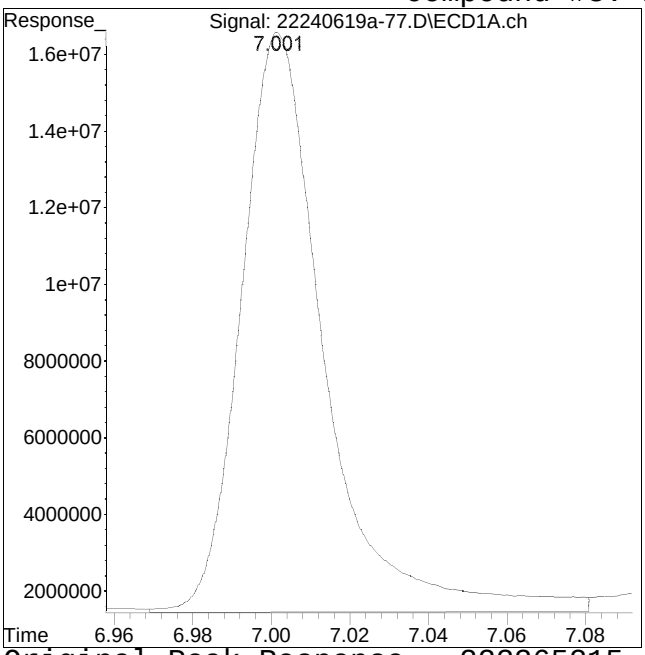


Original Peak Response = 969290451 Manual Peak Response = 917166060 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

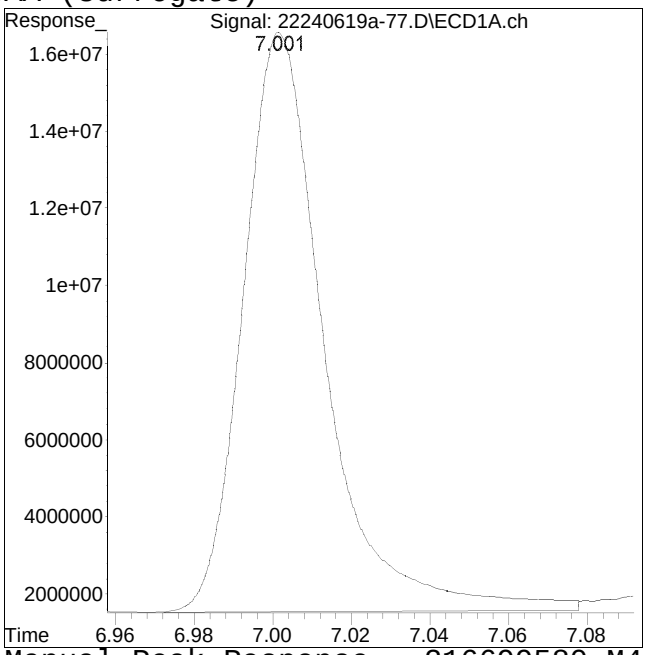
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-77.D Operator : pest22:akm
Date Inj'd : 6/20/2024 11:49 Instrument : Pest22
Sample : L2433375-06,42,, rv Quant Date : 6/20/2024 1:27 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 223365215



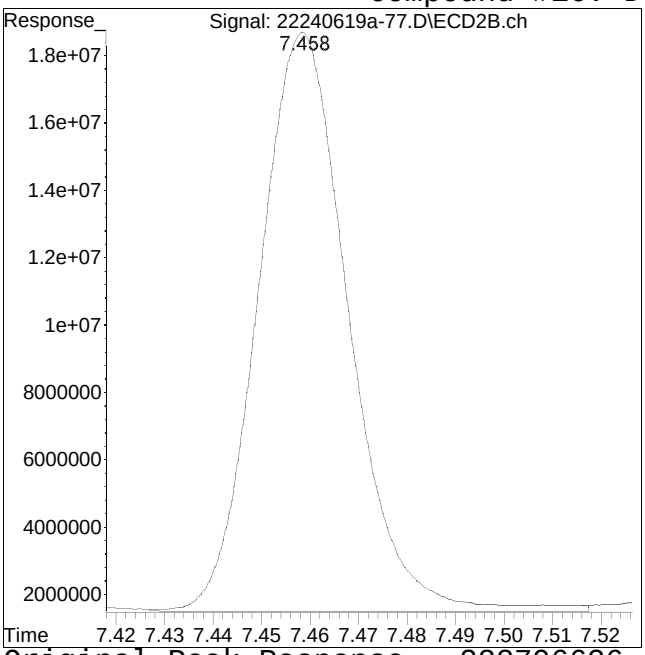
Manual Peak Response = 216699580 M4

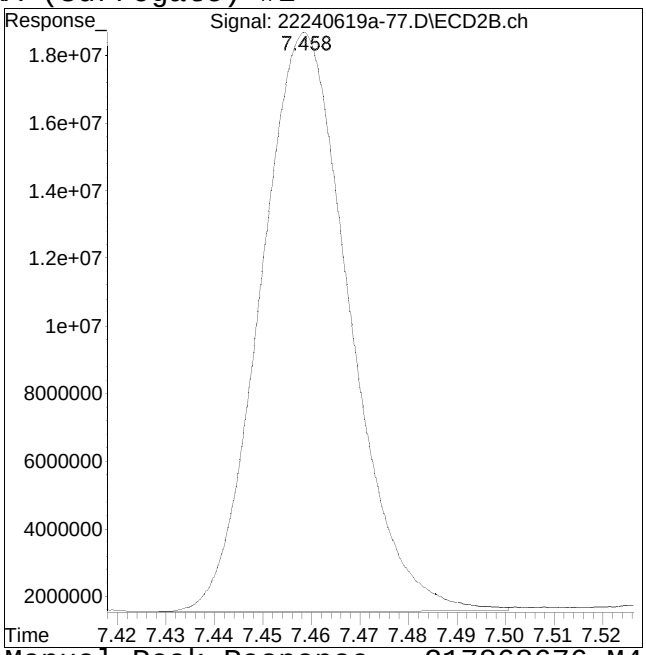
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-77.D Operator : pest22:akm
Date Inj'd : 6/20/2024 11:49 Instrument : Pest22
Sample : L2433375-06,42,, rv Quant Date : 6/20/2024 1:27 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 222796626 Manual Peak Response = 217868676 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-99.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 19:20
Operator : pest22:akm
Sample : L2433375-04,42,, p
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:49 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.531	8.527	823.1E6	861.8E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 626492017				Recovery = 131.38%		
	Standard Area 1 : #2 = 678959739				Recovery = 126.93%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.989	7.458	297.4E6	284.9E6	0.439	0.408M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	87.80%	81.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

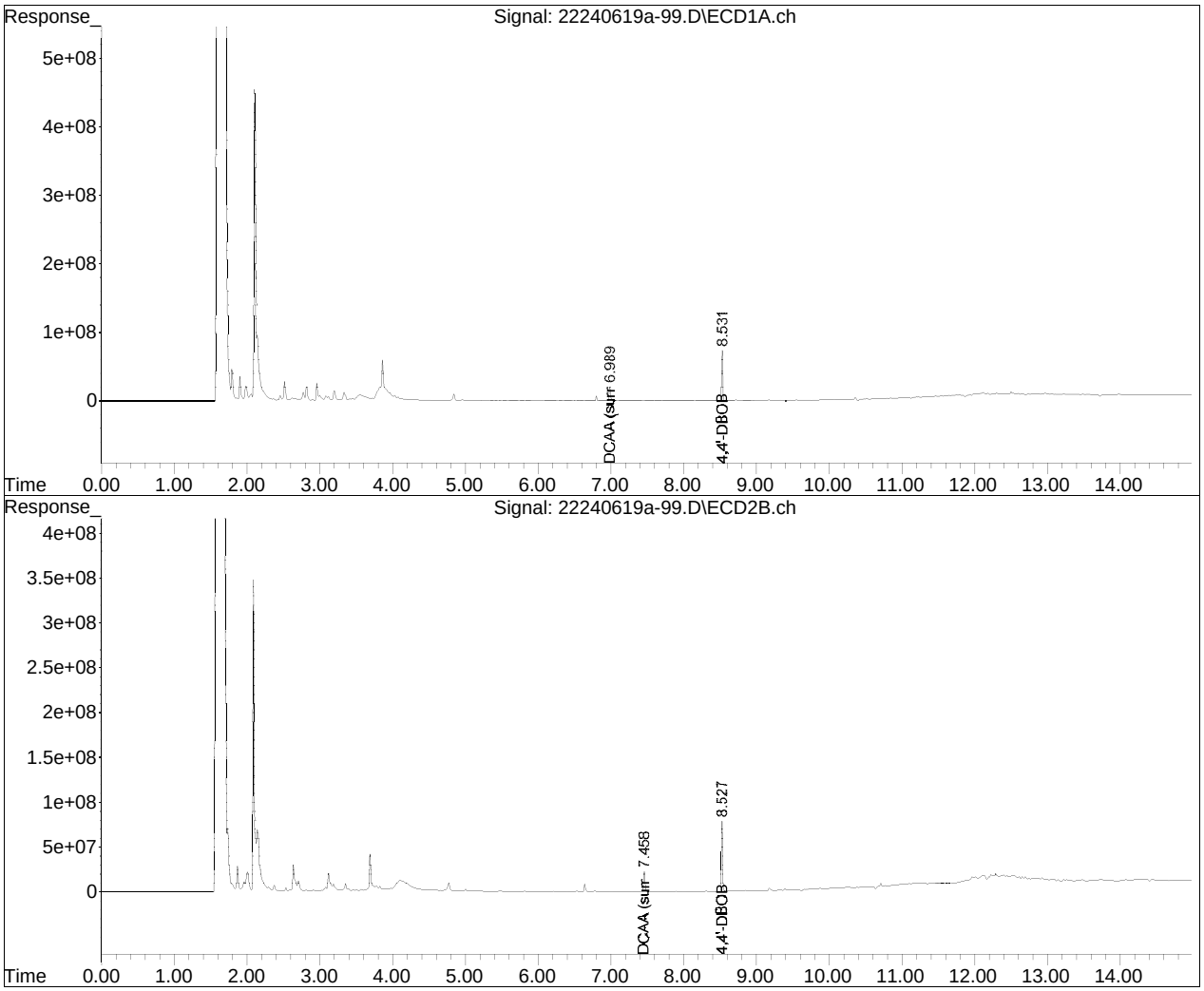
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-87.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-99.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 19:20
Operator : pest22:akm
Sample : L2433375-04,42,, p
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:49 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

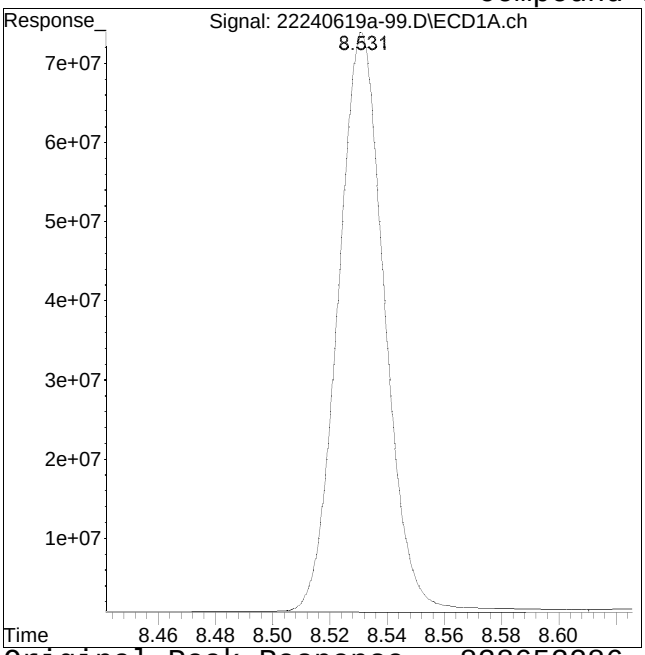
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

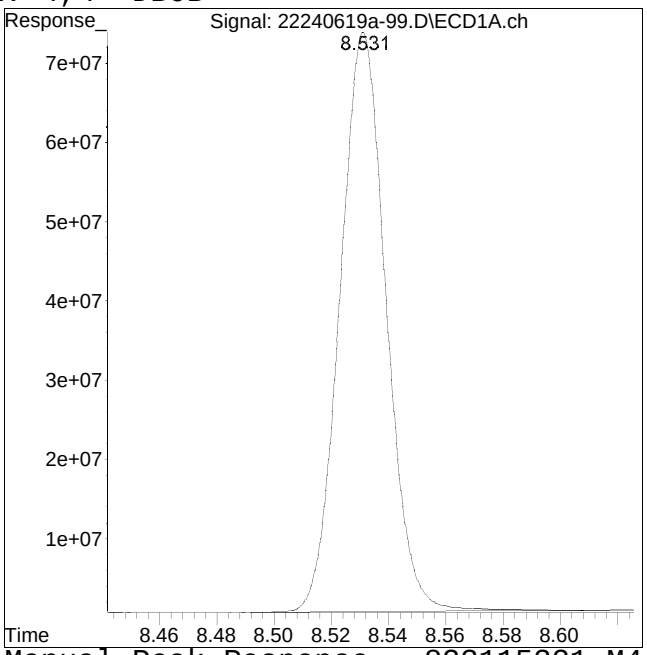


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-99.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:20 Instrument : Pest22
Sample : L2433375-04,42,, p Quant Date : 6/21/2024 7:42 am

Compound #1: 4,4'-DBOB



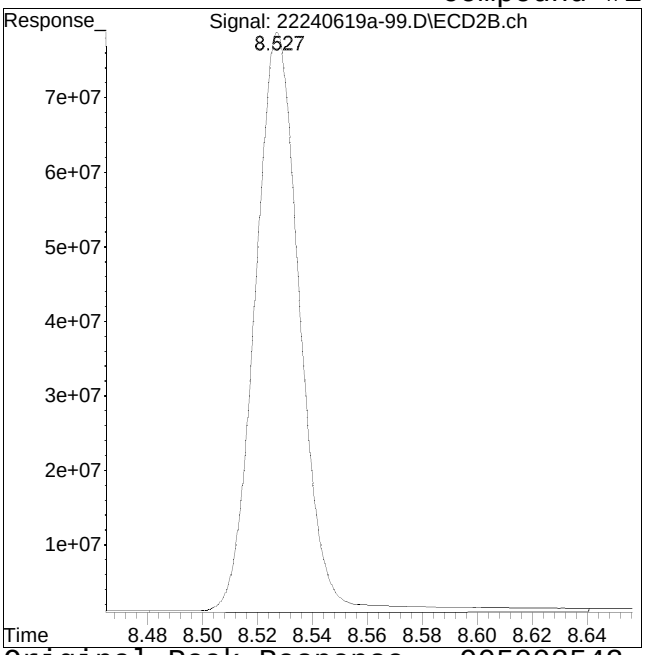


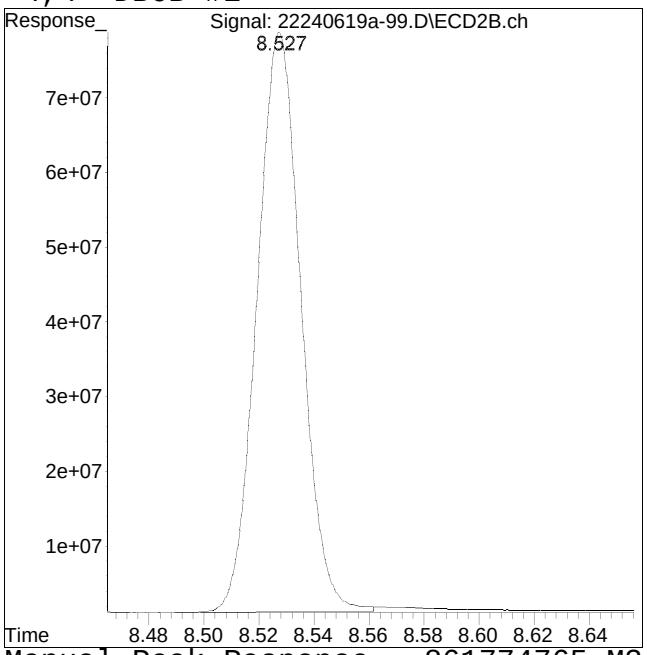
Original Peak Response = 838652286 Manual Peak Response = 823115321 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-99.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:20 Instrument : Pest22
Sample : L2433375-04,42,, p Quant Date : 6/21/2024 7:42 am

Compound #14: 4,4'-DBOB #2



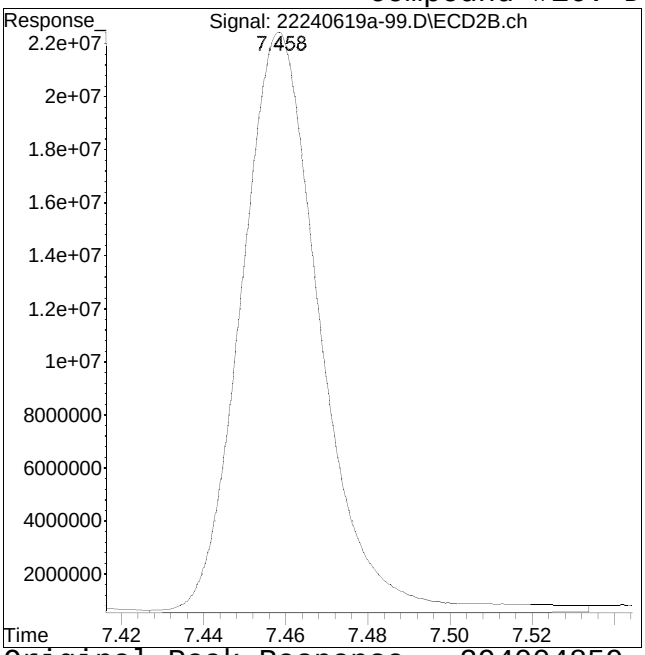


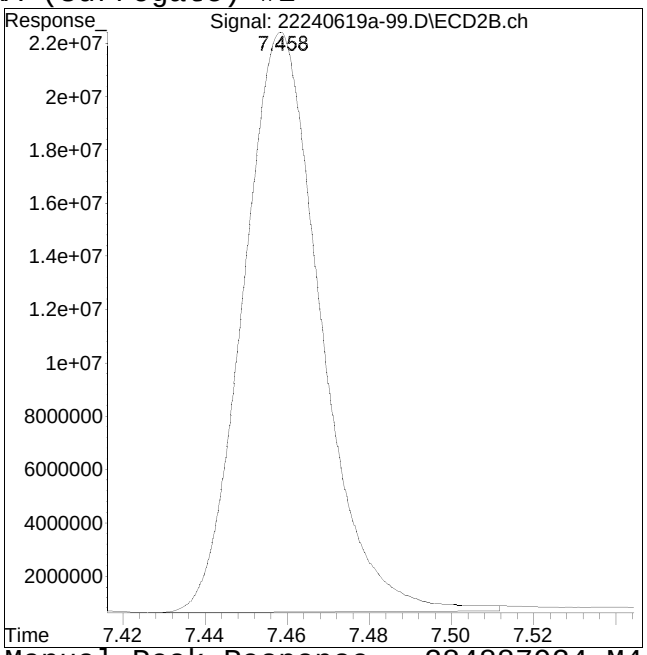
Original Peak Response = 905002542 Manual Peak Response = 861774765 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-99.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:20 Instrument : Pest22
Sample : L2433375-04,42,, p Quant Date : 6/21/2024 7:42 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 294004859 Manual Peak Response = 284887924 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-102.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 20:16
Operator : pest22:akm
Sample : L2433375-08,42,,
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:45 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	755.6E6	796.4E6	0.250	0.250M3
	Standard Area 1 : #1 = 626492017				Recovery = 120.61%		
	Standard Area 1 : #2 = 678959739				Recovery = 117.29%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.990	7.458	298.5E6	292.9E6	0.480M4	0.454M3
	Spiked Amount	0.500	Range 30 - 150		Recovery = 96.00%		90.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

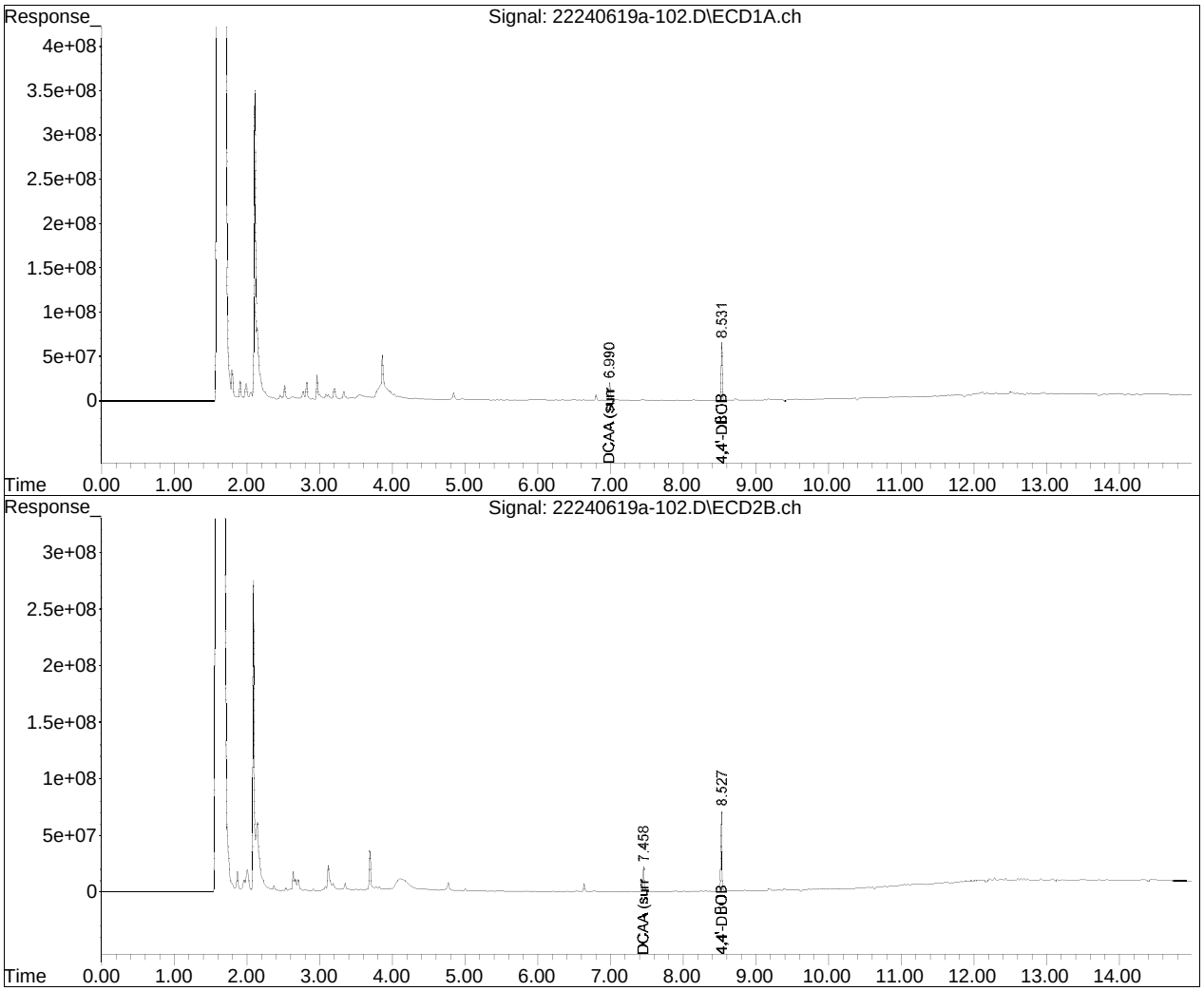
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-87.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-102.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 20:16
Operator : pest22:akm
Sample : L2433375-08,42,,
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:45 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

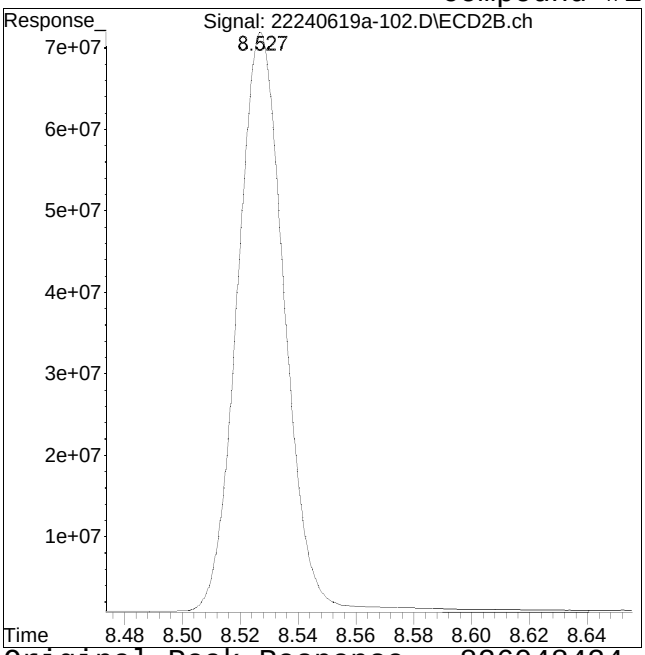
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

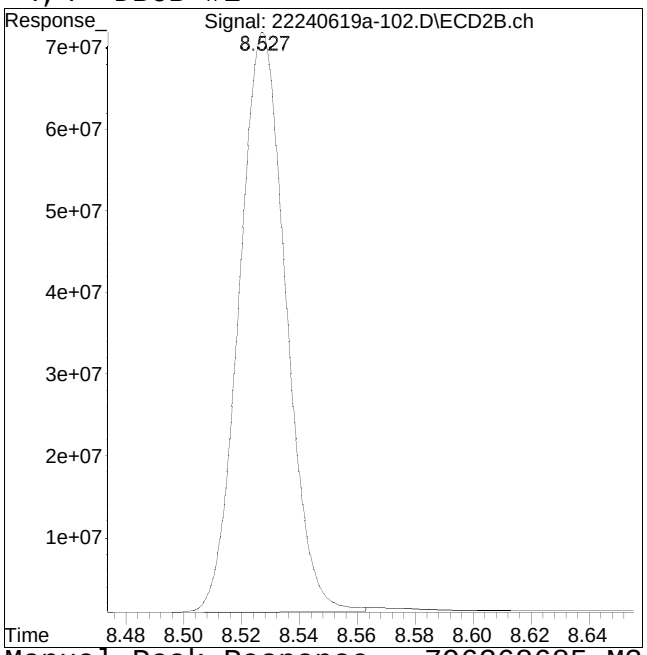


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-102.D Operator : pest22:akm
Date Inj'd : 6/20/2024 20:16 Instrument : Pest22
Sample : L2433375-08,42,, Quant Date : 6/21/2024 7:42 am

Compound #14: 4,4'-DBOB #2



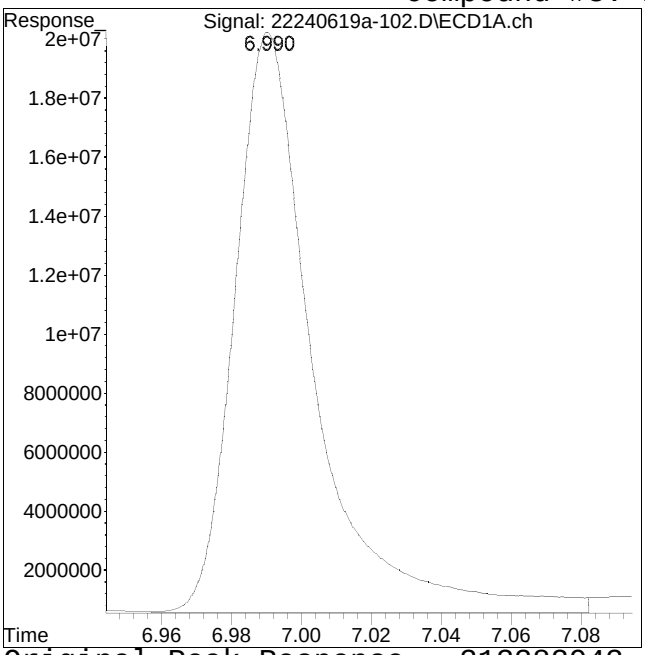


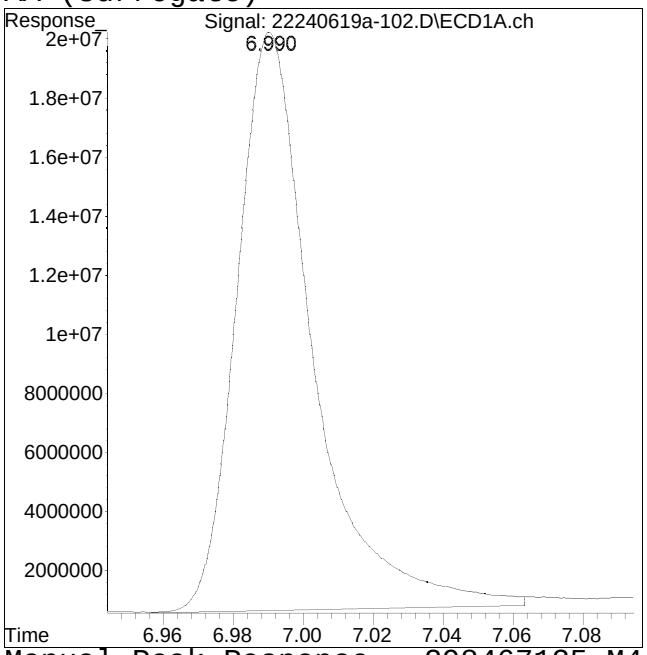
Original Peak Response = 826048424 Manual Peak Response = 796368685 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-102.D Operator : pest22:akm
Date Inj'd : 6/20/2024 20:16 Instrument : Pest22
Sample : L2433375-08,42,, Quant Date : 6/21/2024 7:42 am

Compound #3: DCAA (surrogate)



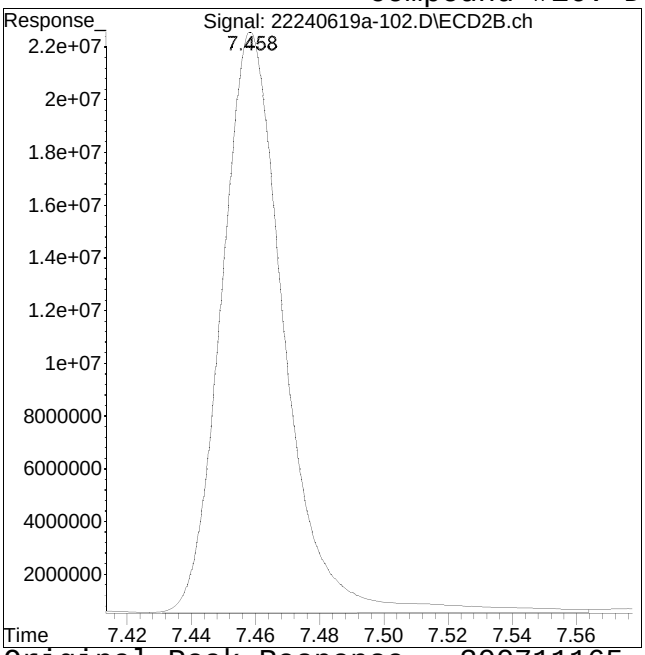


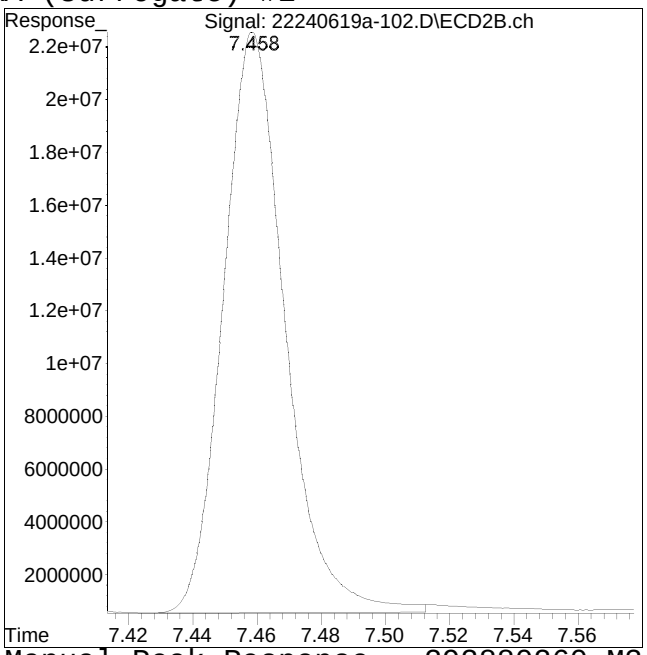
Original Peak Response = 313382943 Manual Peak Response = 298467125 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-102.D Operator : pest22:akm
Date Inj'd : 6/20/2024 20:16 Instrument : Pest22
Sample : L2433375-08,42,, Quant Date : 6/21/2024 7:42 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 300711165 Manual Peak Response = 292880260 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	ISTD							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Silvex)	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Signal #2 Calibration Files

1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D

6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41
12)	t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

Response Factor Report Pest22

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Sil...	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Signal #2 Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil...	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.574	8.565	756.9E6	704.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.029	7.496	35328399	32431372	0.059M4	0.059M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	11.80%#	11.80%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	30900834	24425609	0.049M4	0.044M4
4)	t	Dicamba	7.214	7.677	100.2E6	89031745	0.058M4	0.055M4
5)	t	MCPP	7.415	7.788	6799605	10777388	4.240M4	5.312M4
6)	t	MCPA	7.560	8.014	16578581	20607835	5.923M3	6.238M4
7)	t	Dichloroprop	7.916	8.331	34063325	30623615	0.061M4	0.059M4
8)	t	2,4-D	8.125	8.603	40438671	36965903	0.058M4	0.057M4
9)	t	2,4,5-TP (Si	8.842	9.260	143.0E6	129.6E6	0.056M4	0.055M4
10)	t	2,4,5-T	9.057	9.547	138.4E6	124.5E6	0.055M4	0.055M4
11)	t	2,4-DB	9.465	9.908	23445909	22049037	0.061M4	0.057M4
12)	t	Dinoseb	10.217	10.131	79147594	72789265	0.054M4	0.054M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

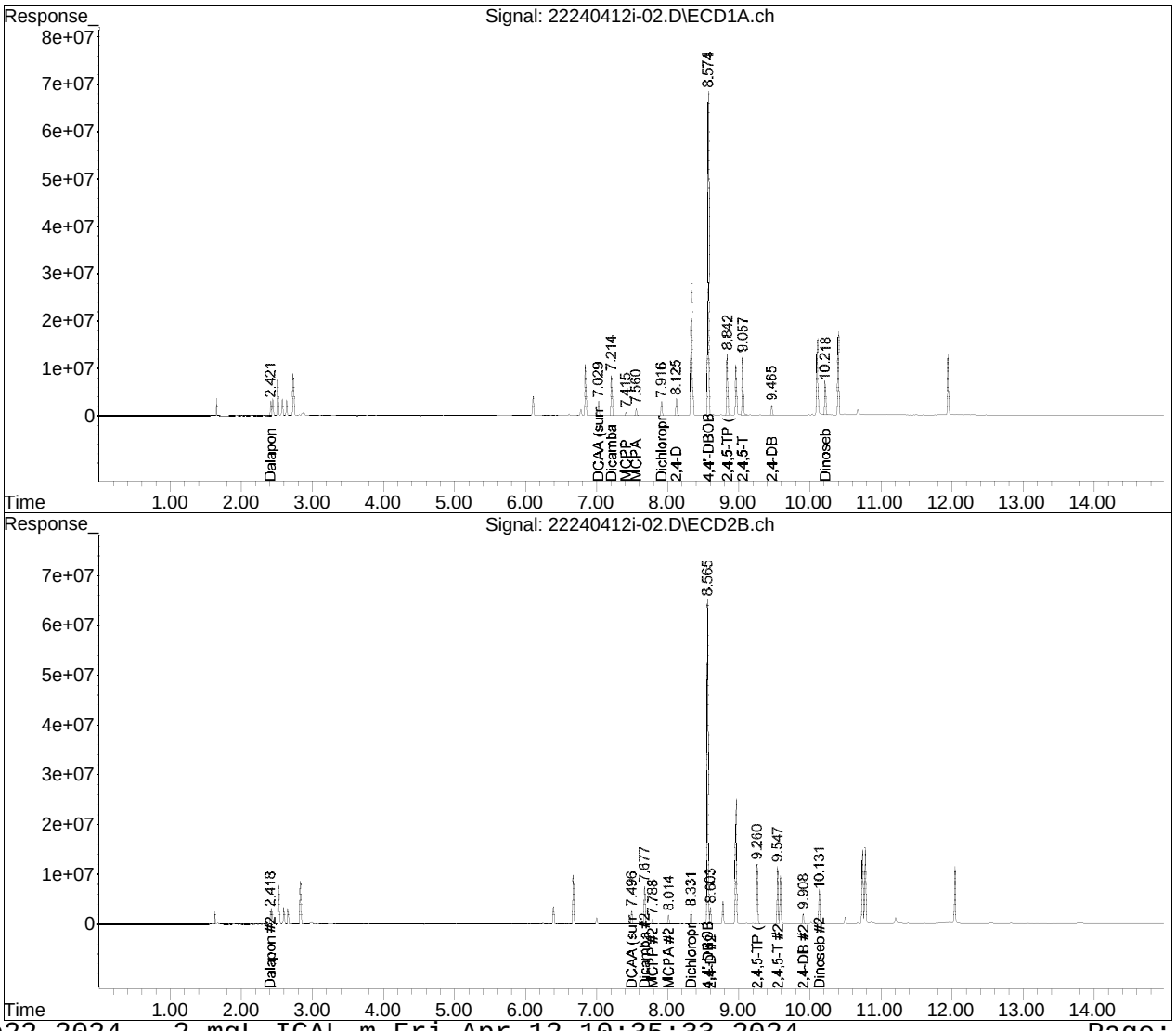
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

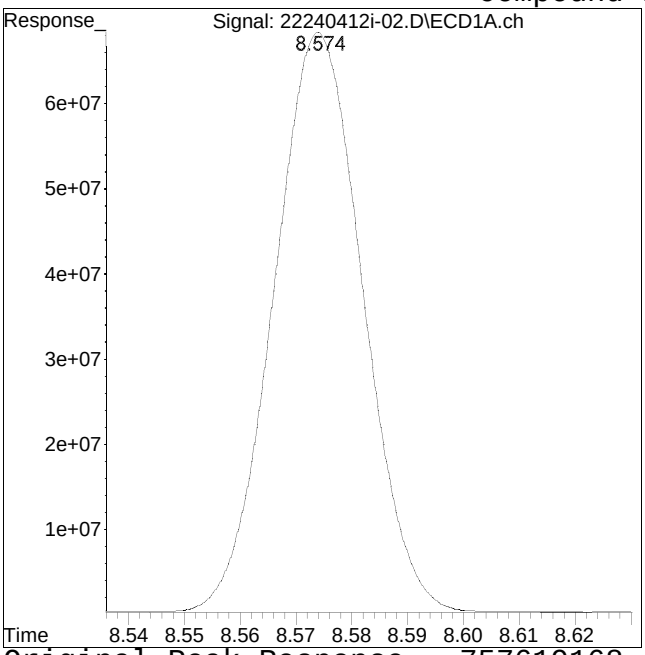
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



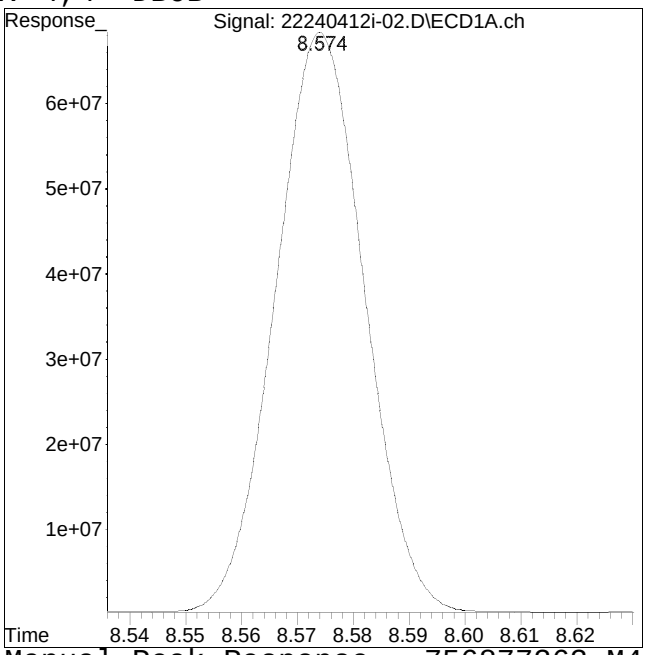
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #1: 4,4'-DBOB



Original Peak Response = 757619168

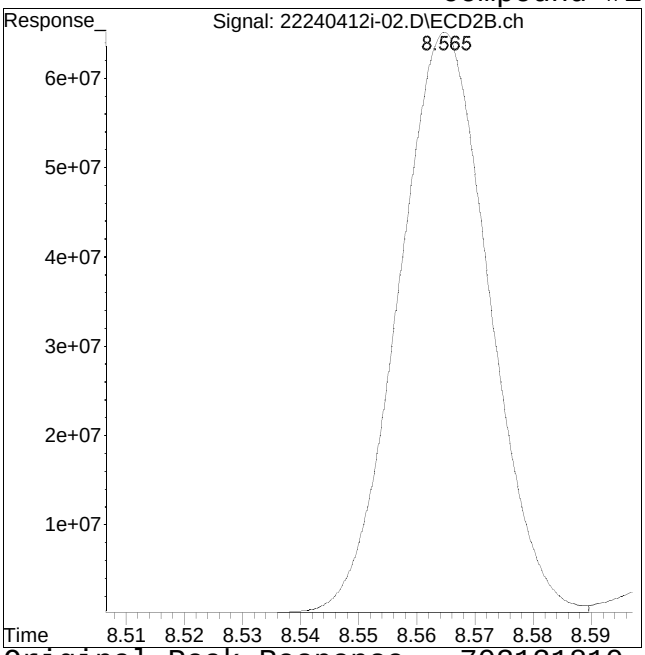


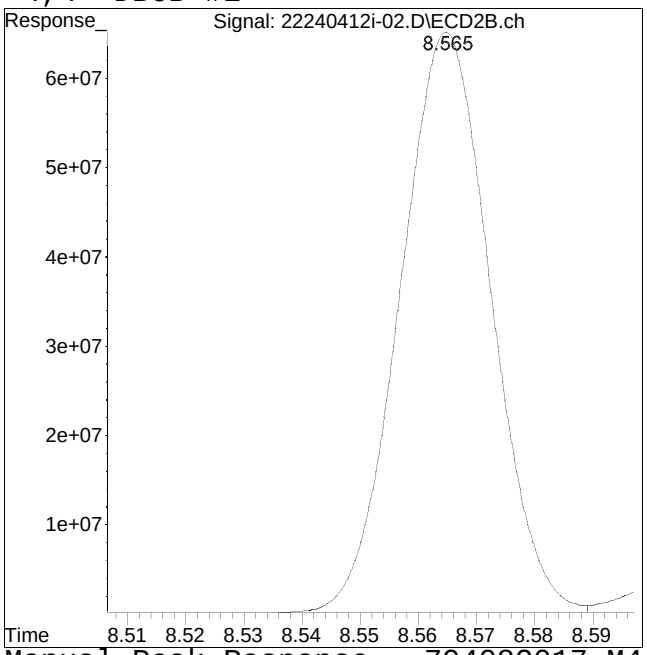
Manual Peak Response = 756877363 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #14: 4,4'-DBOB #2



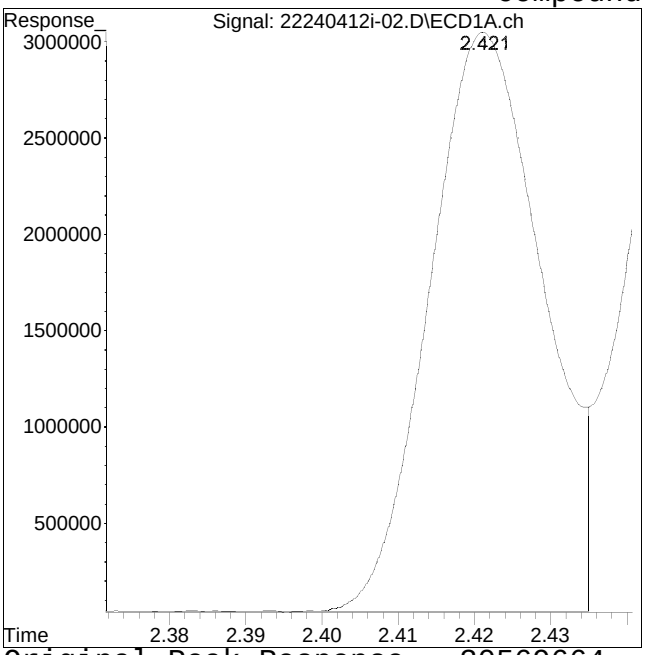


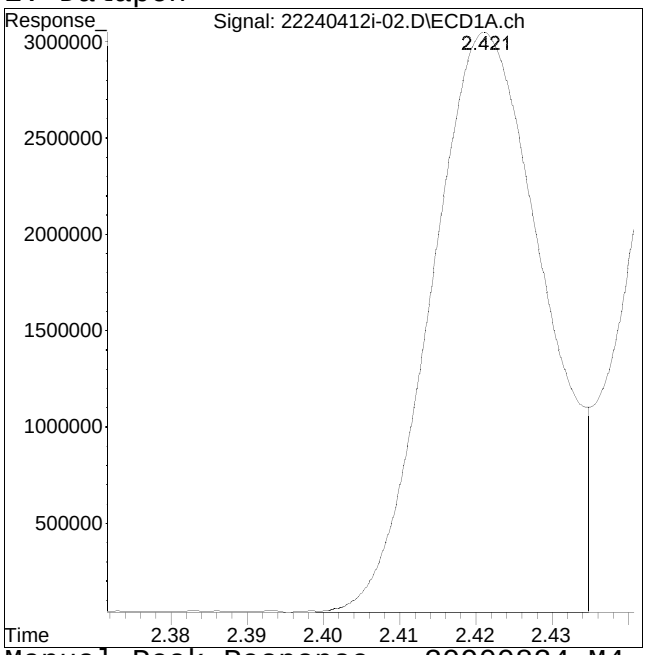
Original Peak Response = 703131810 Manual Peak Response = 704082017 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #2: Dalapon



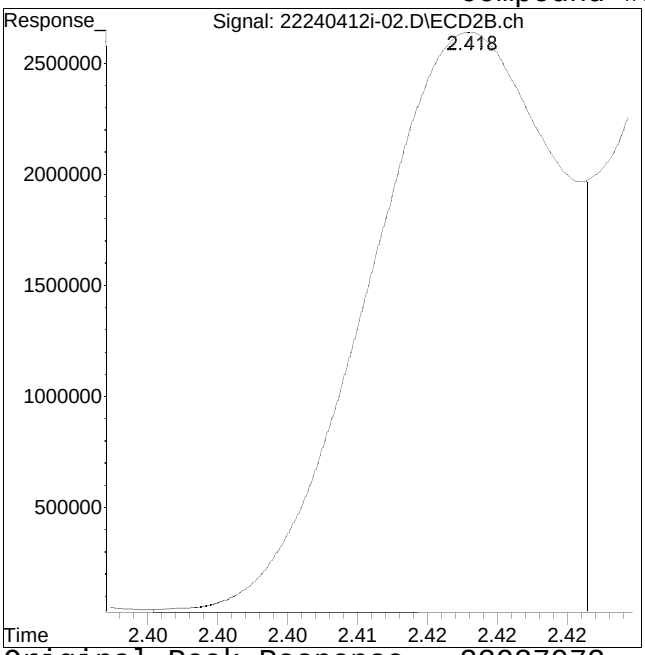


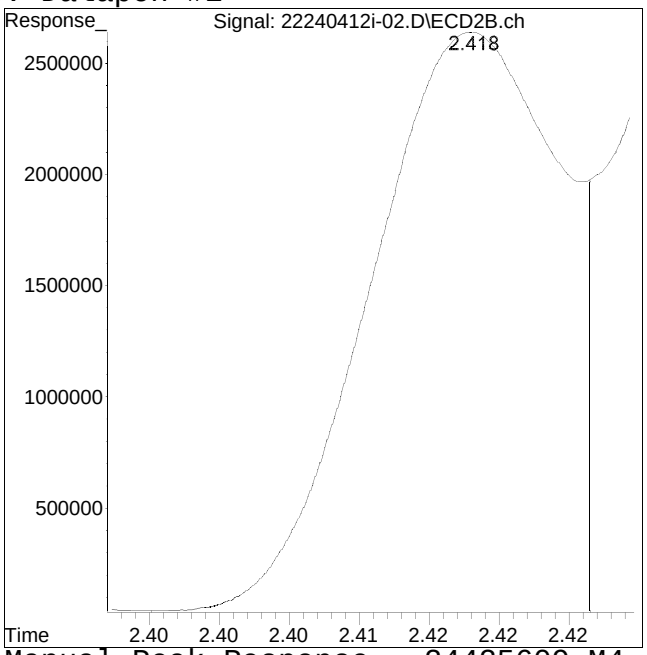
Original Peak Response = 30569664 Manual Peak Response = 30900834 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #15: Dalapon #2



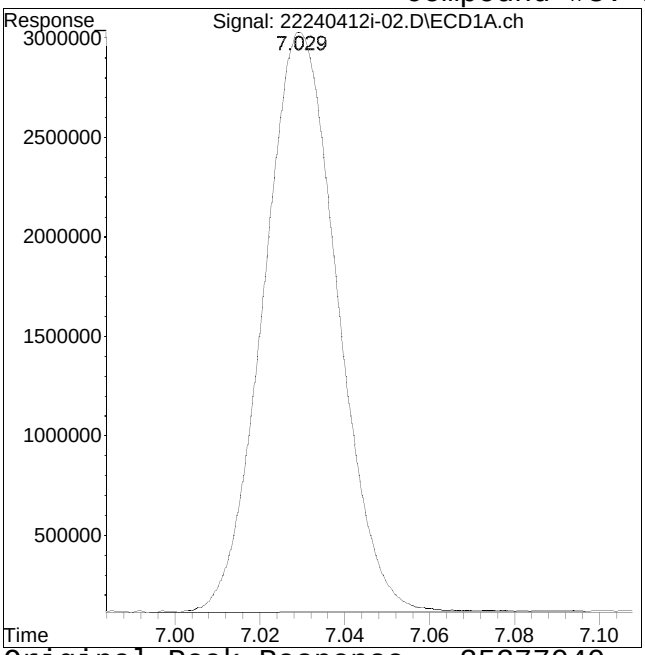


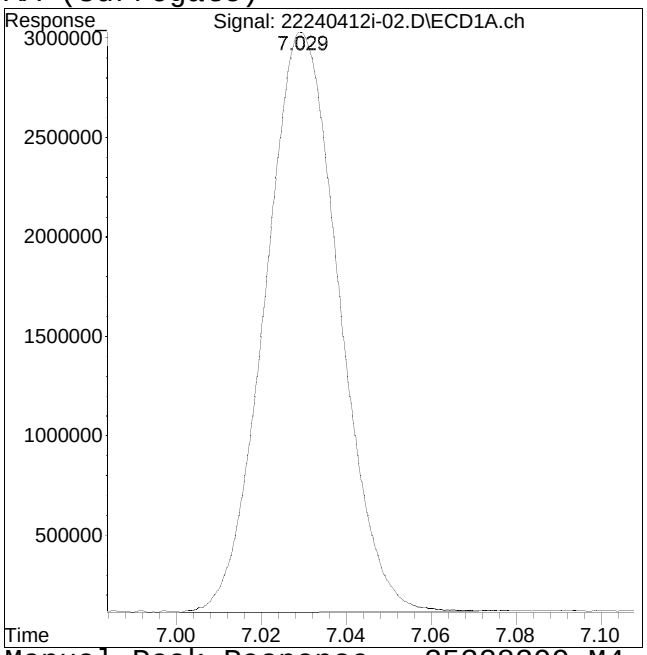
Original Peak Response = 23937972 Manual Peak Response = 24425609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #3: DCAA (surrogate)



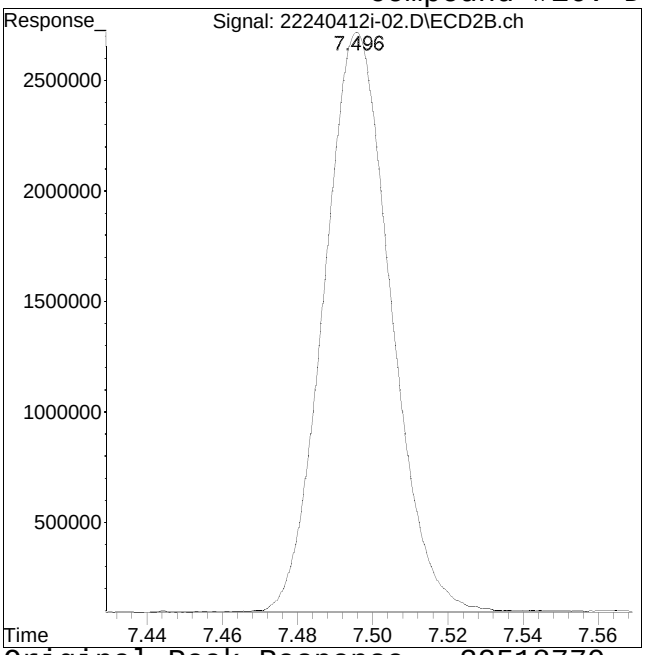


Original Peak Response = 35377040 Manual Peak Response = 35328399 M4
M4 = Poor automated baseline construction.

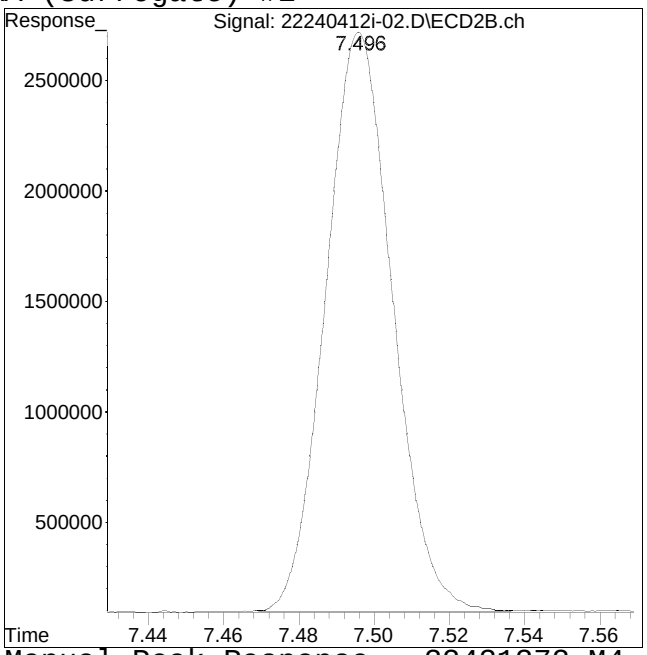
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 32518770



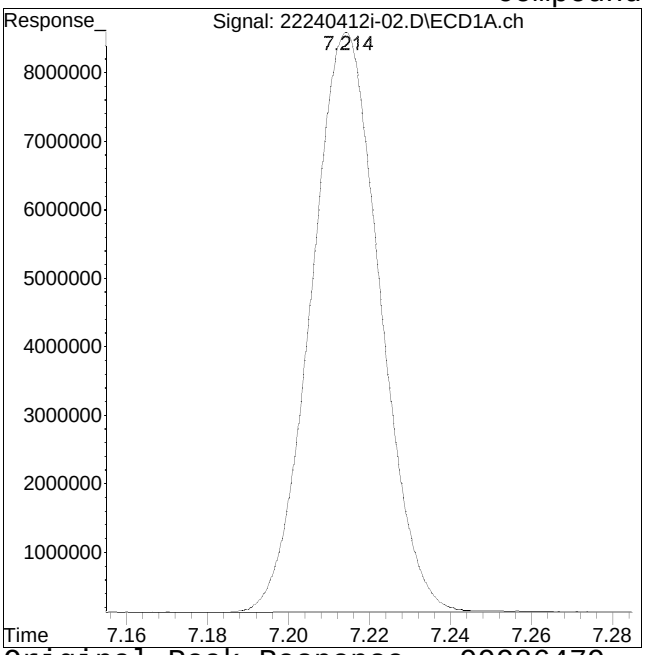
Manual Peak Response = 32431372 M4

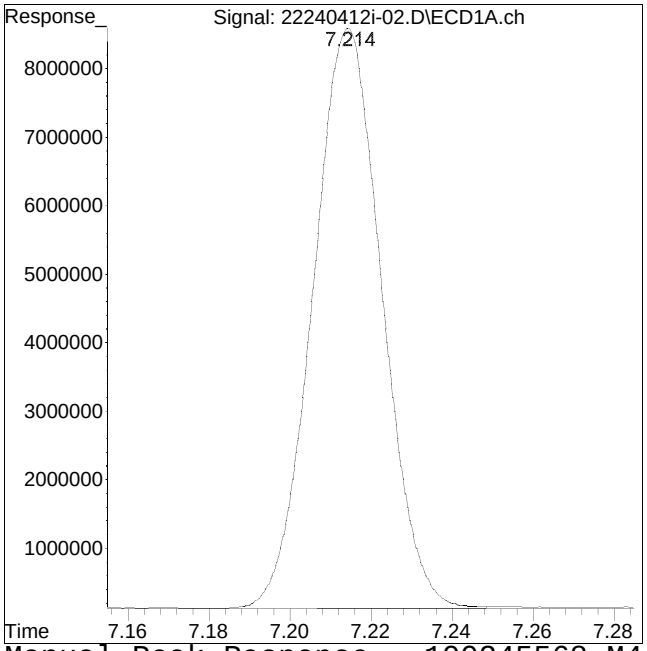
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #4: Dicamba



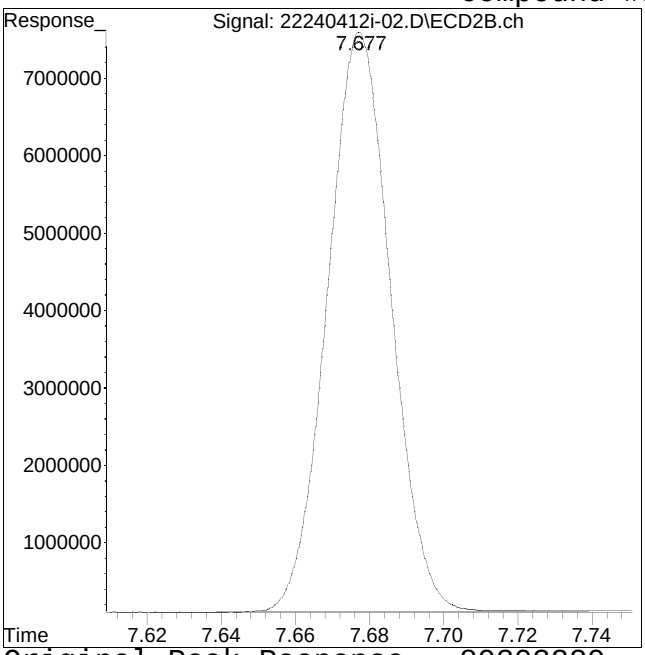


Original Peak Response = 99986479 Manual Peak Response = 100245568 M4
M4 = Poor automated baseline construction.

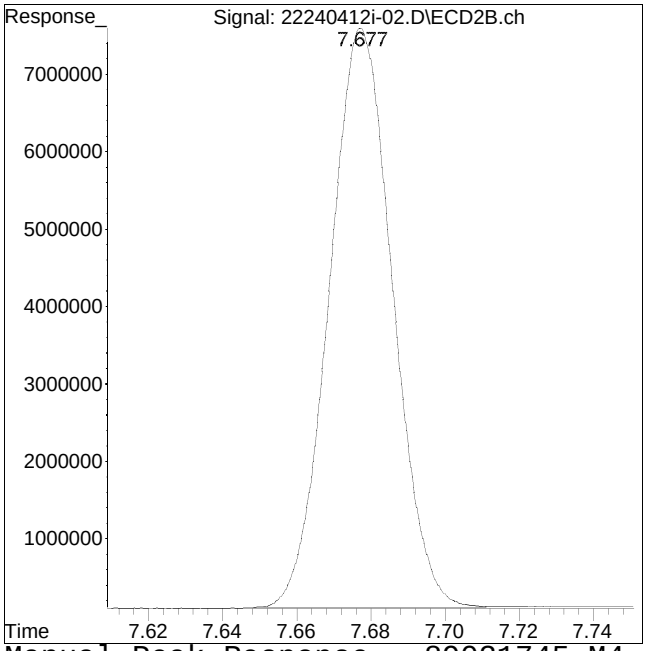
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #17: Dicamba #2



Original Peak Response = 89303220



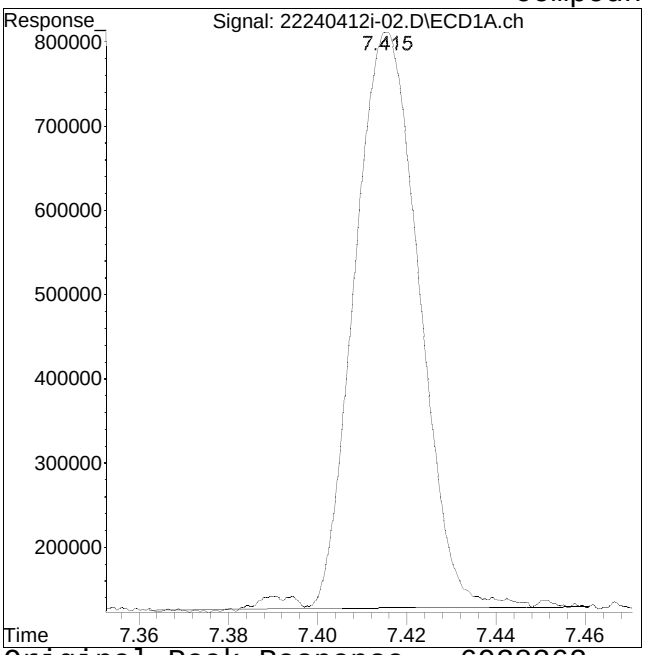
Manual Peak Response = 89031745 M4

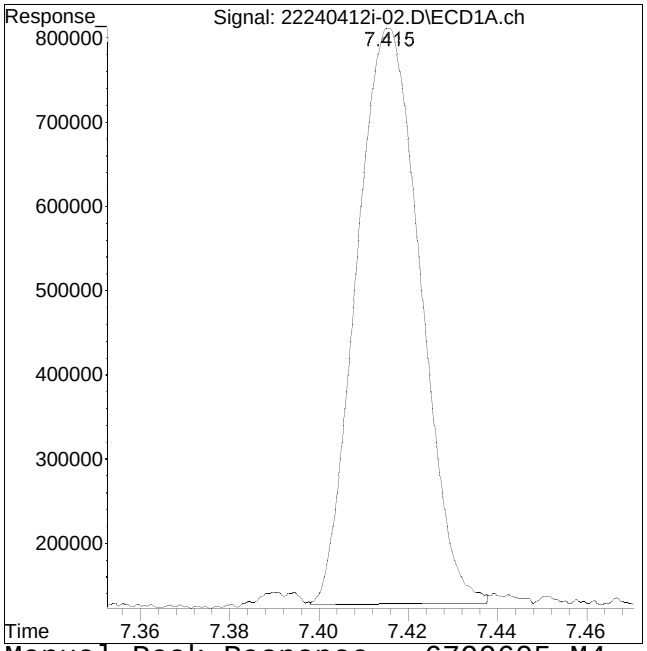
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #5: MCPP



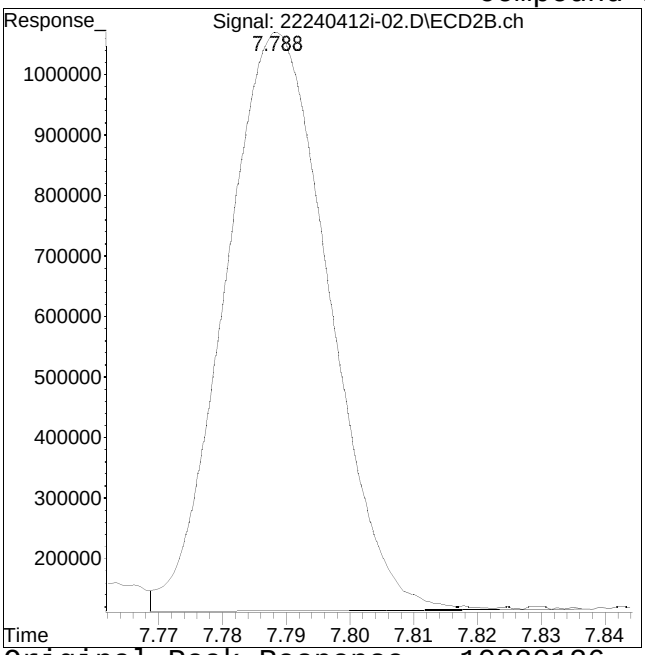


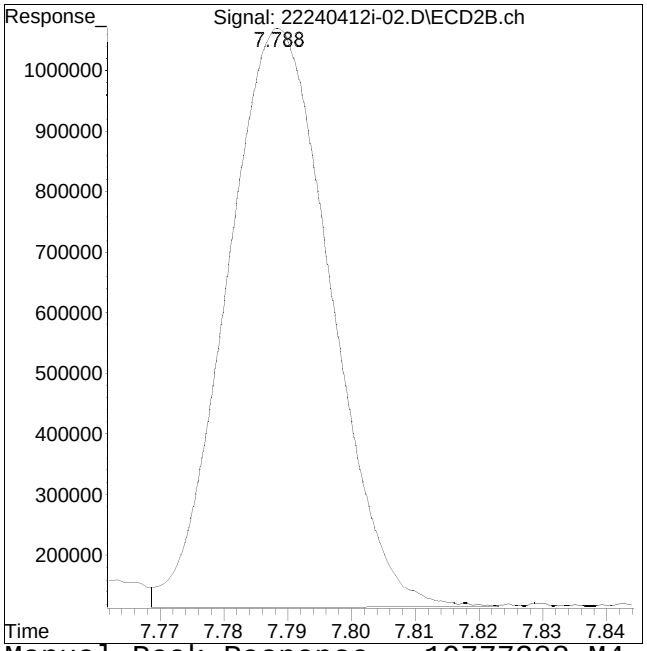
Original Peak Response = 6938262 Manual Peak Response = 6799605 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #18: MCPP #2



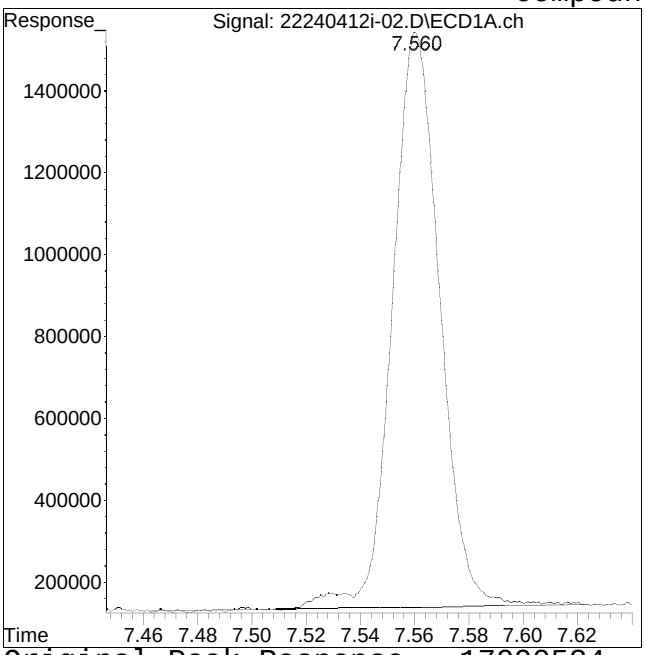


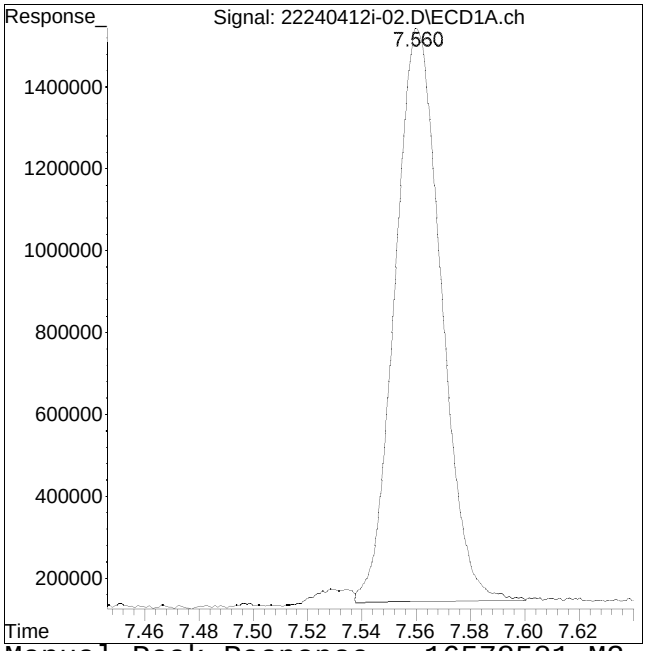
Original Peak Response = 10820126 Manual Peak Response = 10777388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #6: MCPA



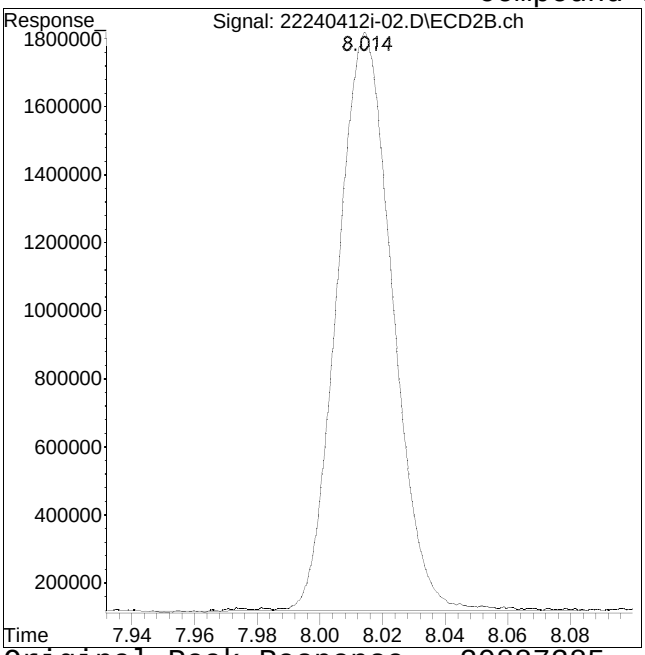


Original Peak Response = 17090534 Manual Peak Response = 16578581 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

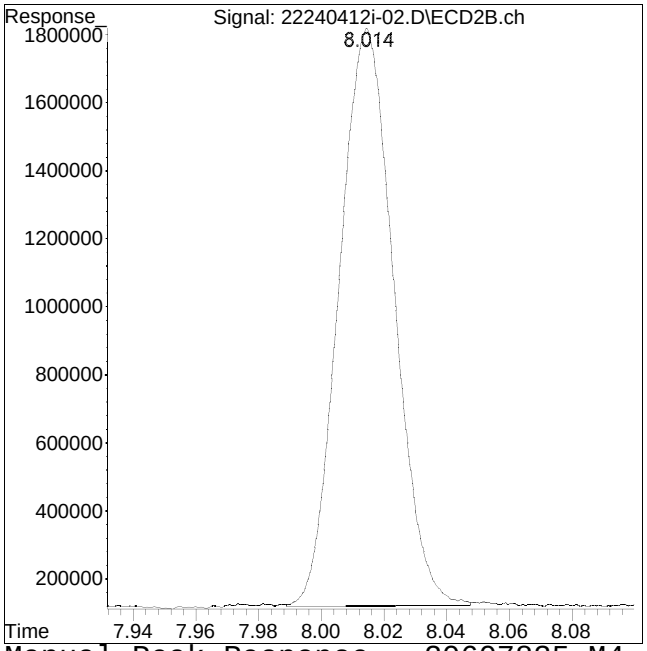
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #19: MCPA #2



Original Peak Response = 20887385



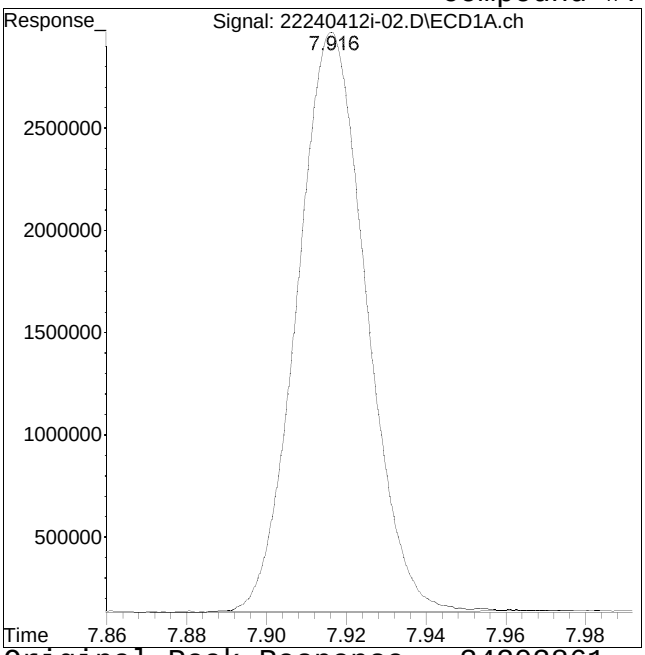
Manual Peak Response = 20607835 M4

M4 = Poor automated baseline construction.

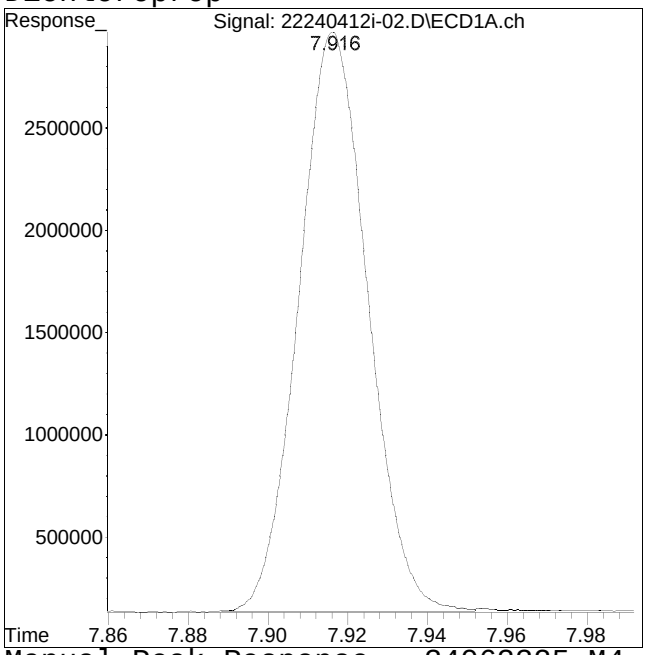
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #7: Dichloroprop



Original Peak Response = 34203861



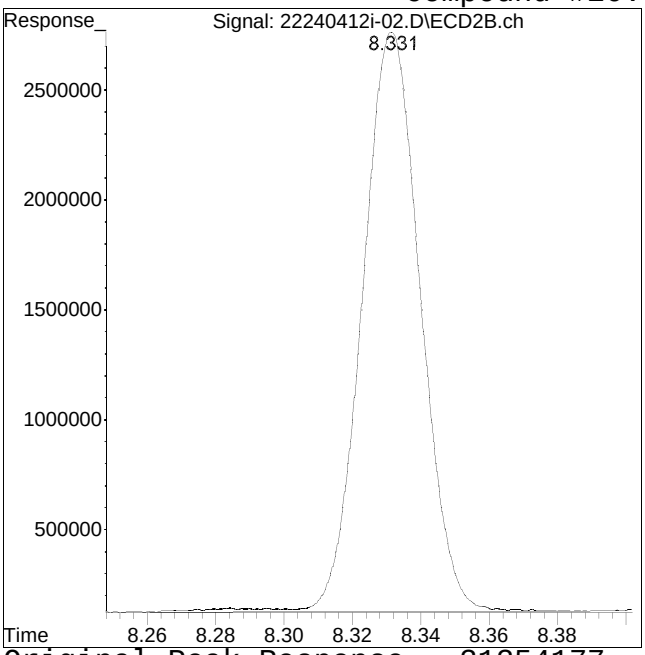
Manual Peak Response = 34063325 M4

M4 = Poor automated baseline construction.

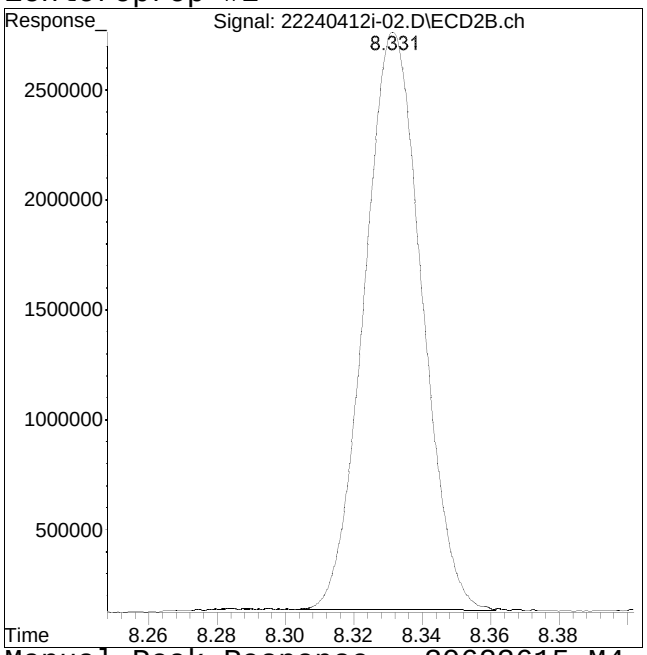
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #20: Dichloroprop #2



Original Peak Response = 31354177



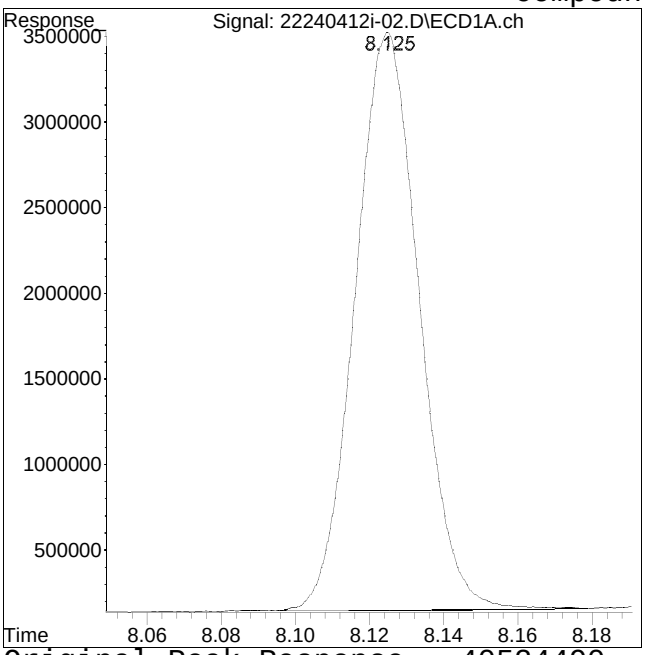
Manual Peak Response = 30623615 M4

M4 = Poor automated baseline construction.

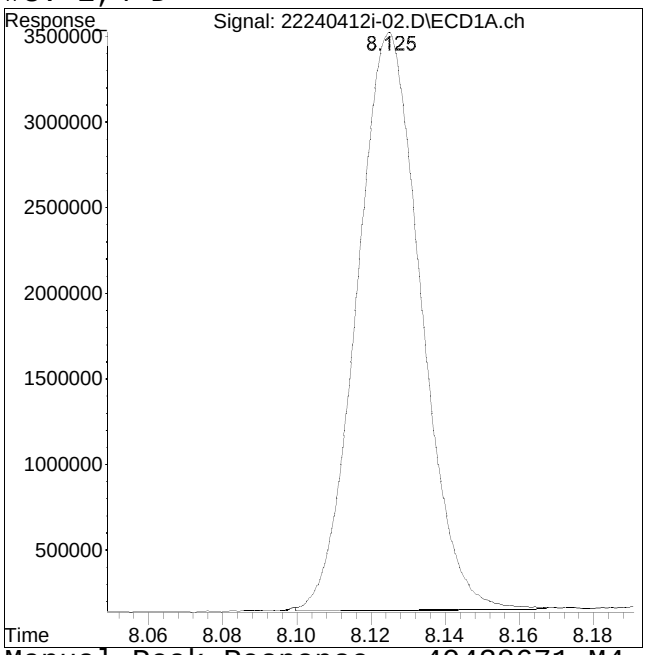
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #8: 2,4-D



Original Peak Response = 40524490



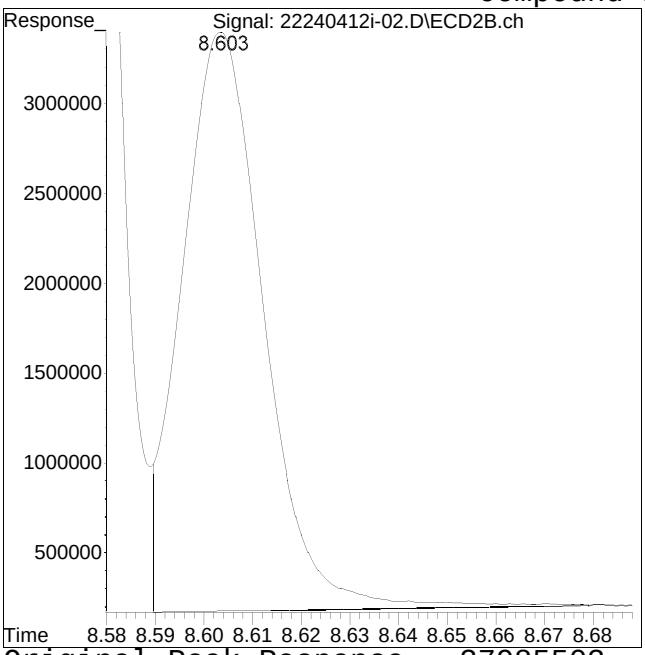
Manual Peak Response = 40438671 M4

M4 = Poor automated baseline construction.

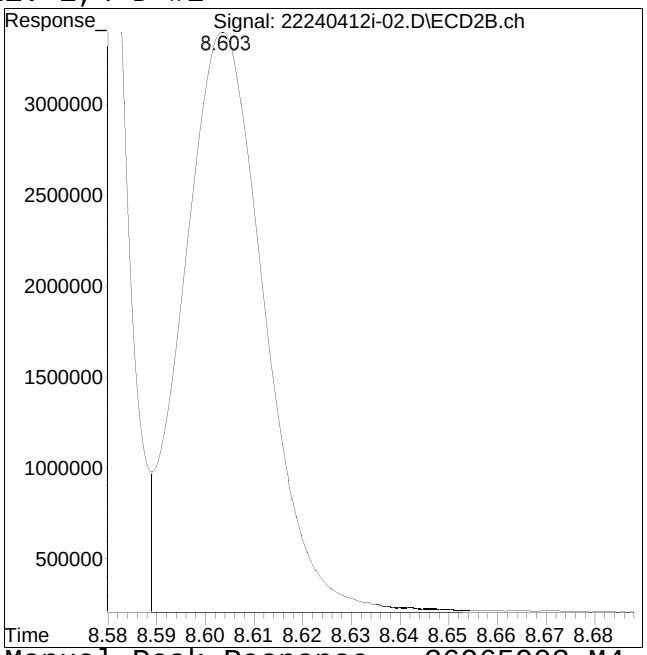
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #21: 2,4-D #2



Original Peak Response = 37985503



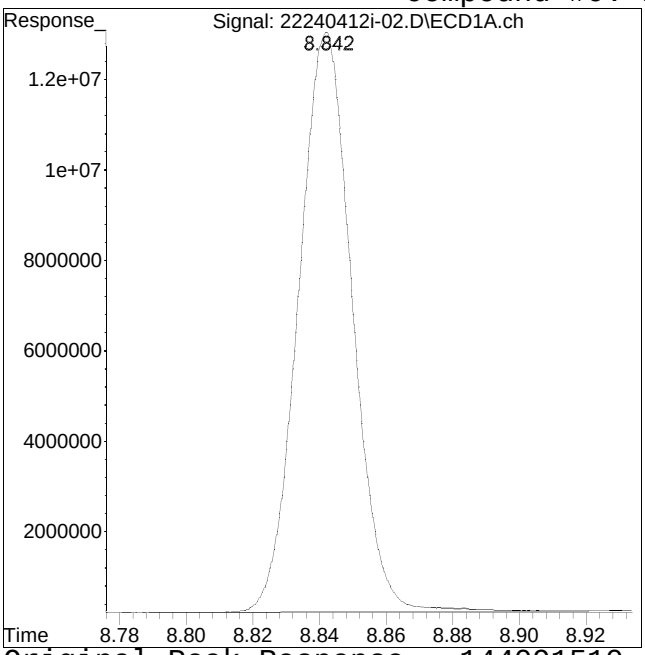
Manual Peak Response = 36965903 M4

M4 = Poor automated baseline construction.

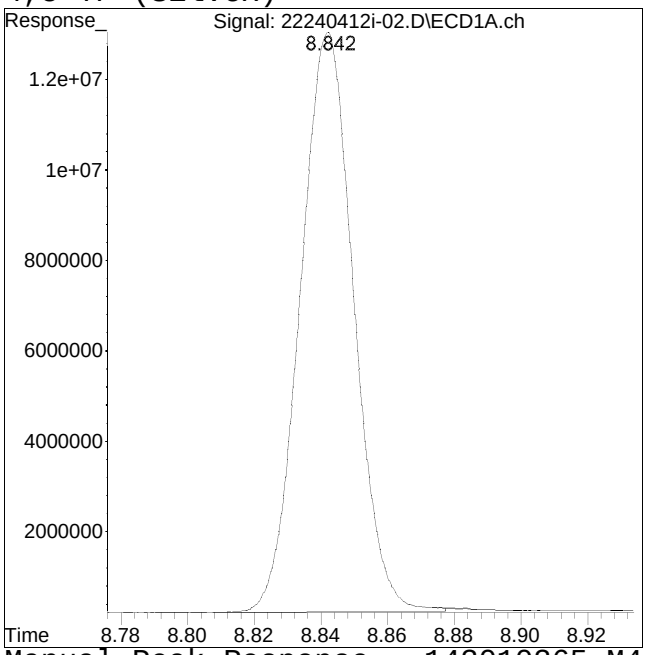
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 144091510



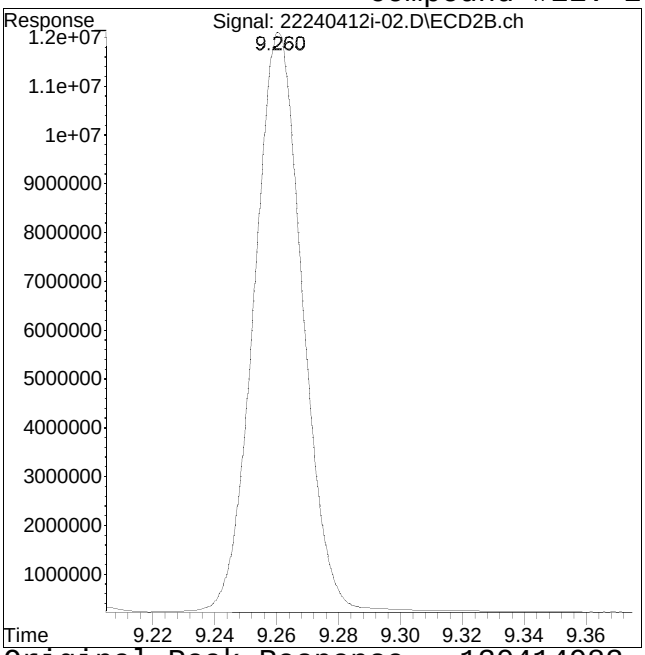
Manual Peak Response = 143010365 M4

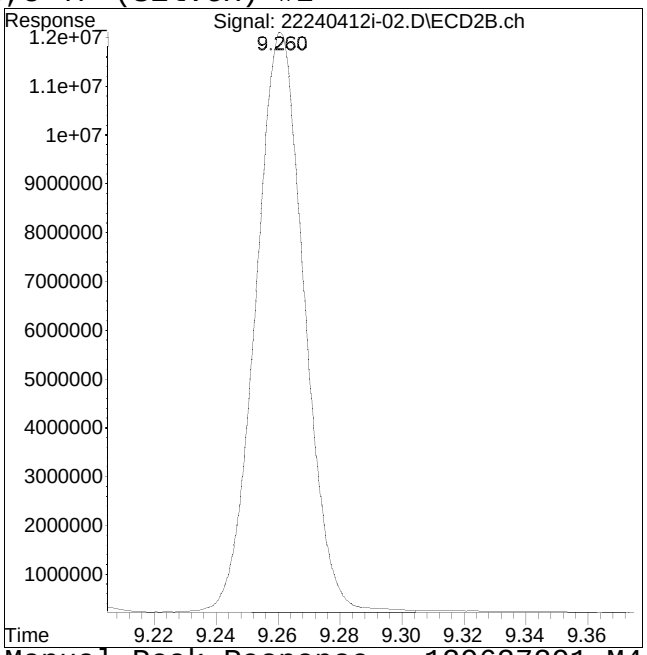
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #22: 2,4,5-TP (Silvex) #2



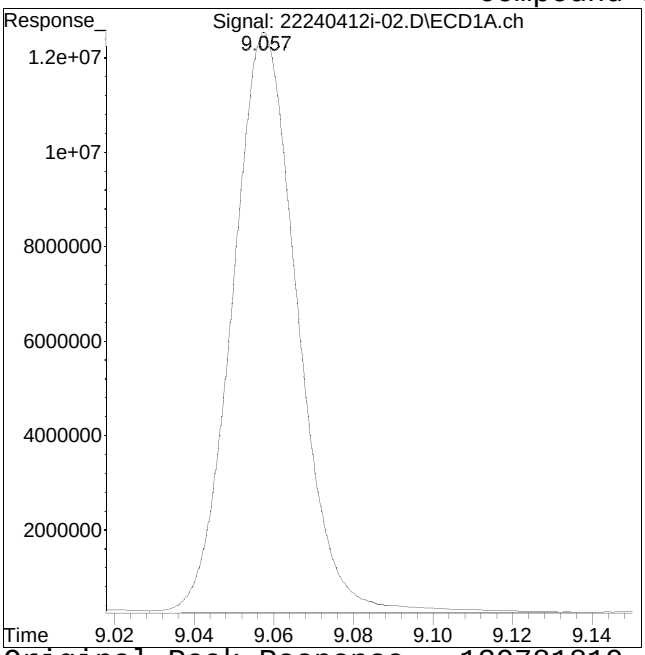


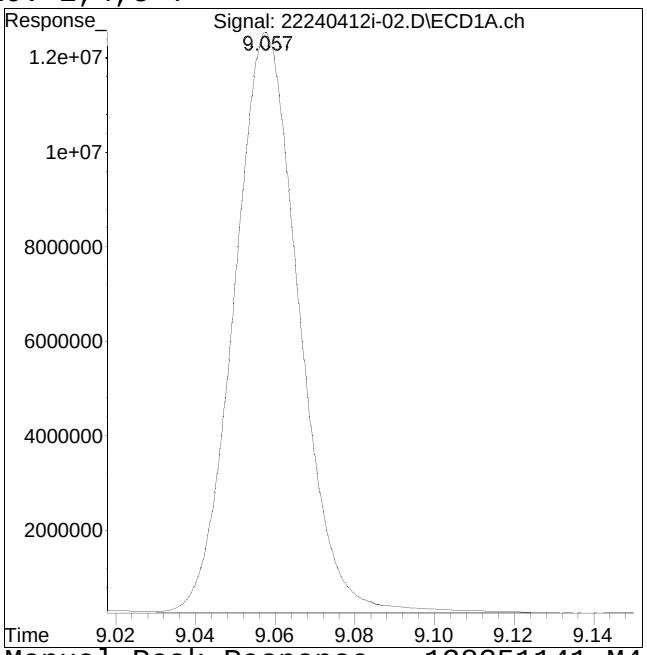
Original Peak Response = 130414983 Manual Peak Response = 129627291 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #10: 2,4,5-T



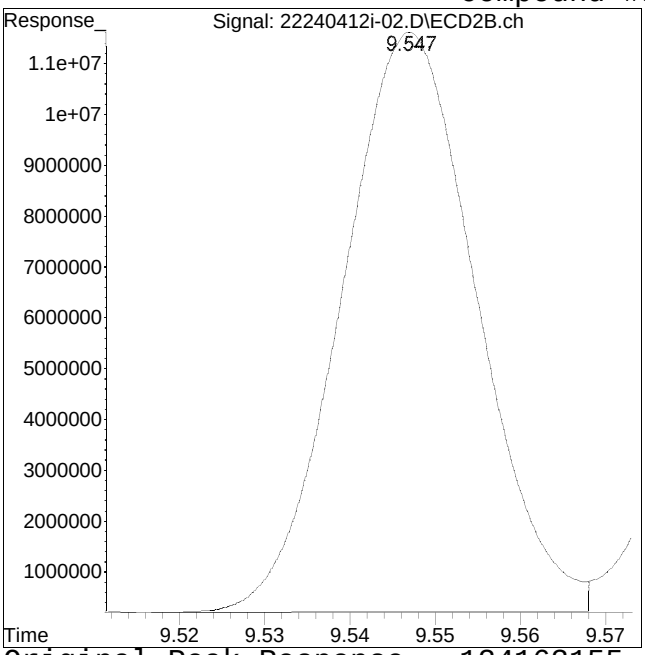


Original Peak Response = 139781819 Manual Peak Response = 138351141 M4
M4 = Poor automated baseline construction.

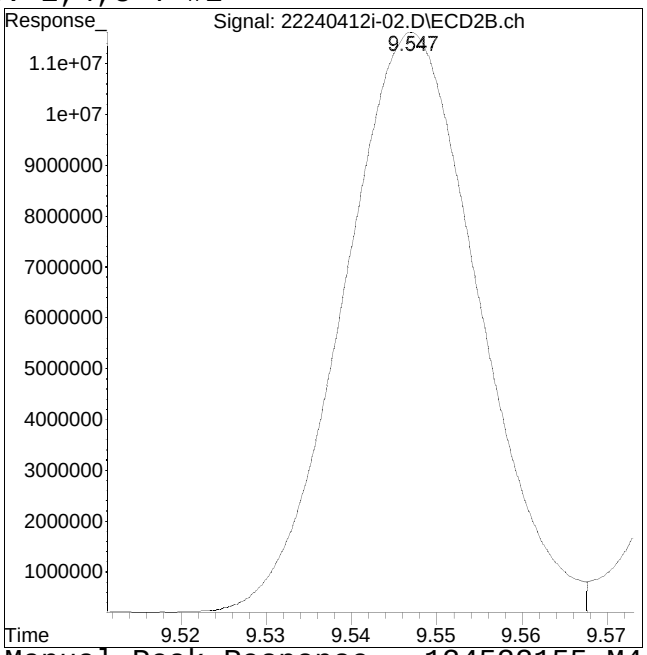
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #23: 2,4,5-T #2



Original Peak Response = 124163155

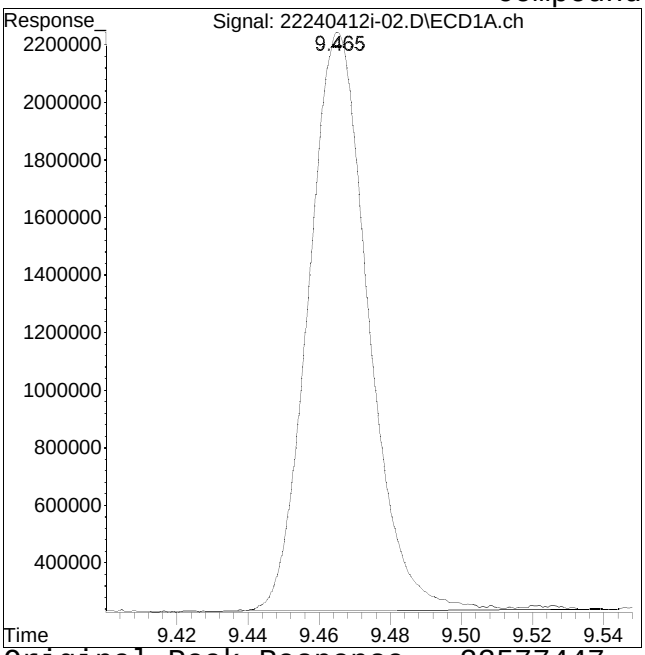


Manual Peak Response = 124522155 M4
M4 = Poor automated baseline construction.

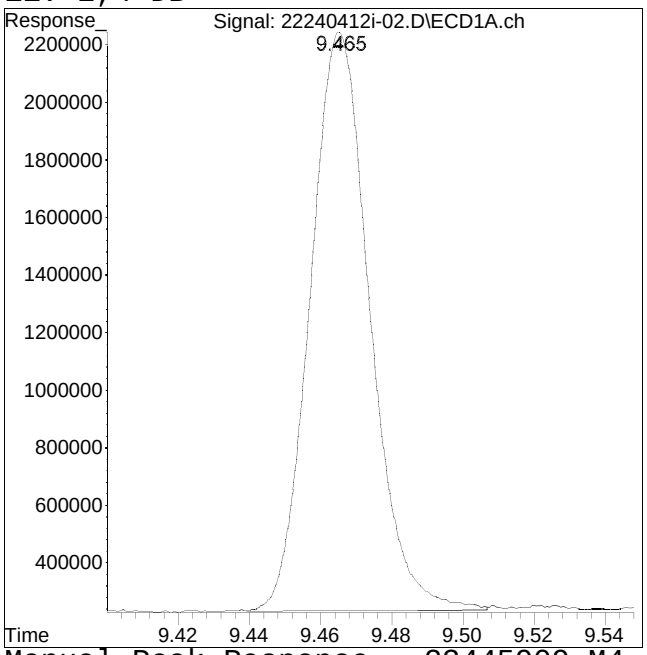
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #11: 2,4-DB



Original Peak Response = 23577447



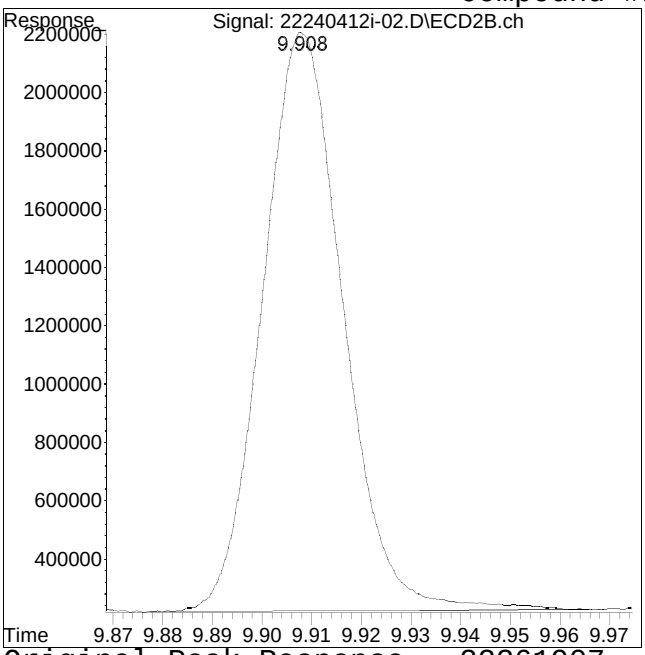
Manual Peak Response = 23445909 M4

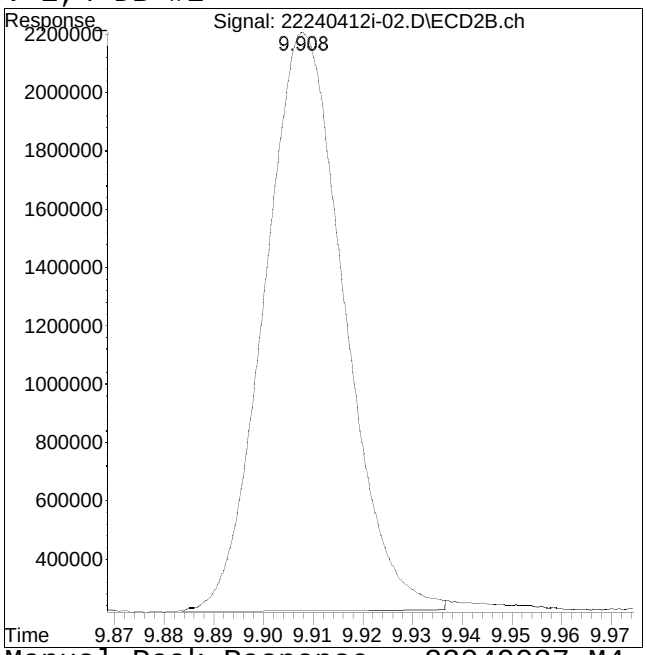
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #24: 2,4-DB #2



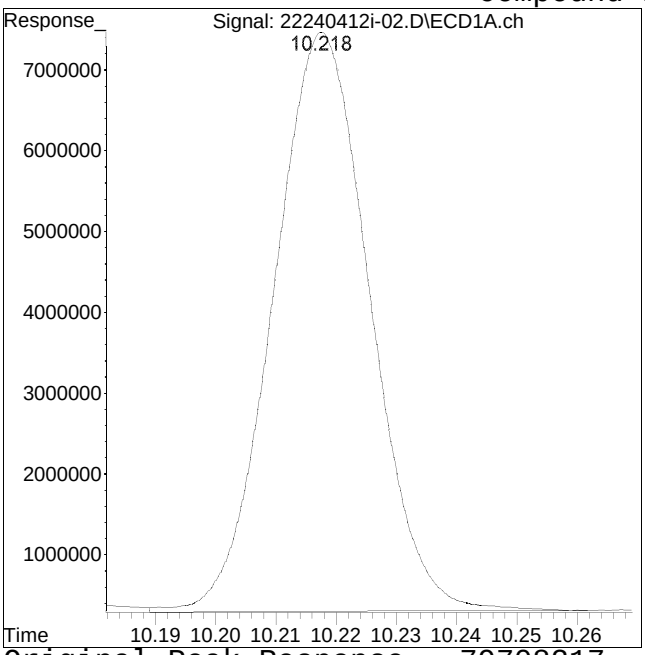


Original Peak Response = 22361907 Manual Peak Response = 22049037 M4
M4 = Poor automated baseline construction.

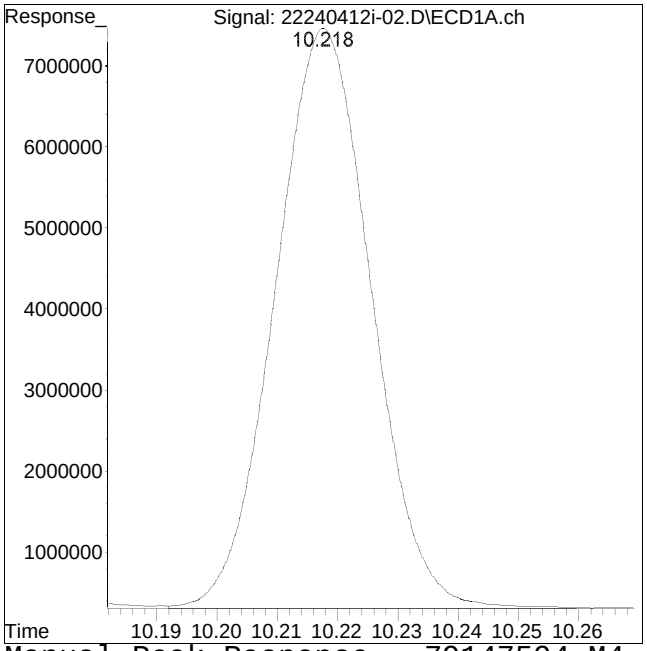
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #12: Dinoseb



Original Peak Response = 79708217



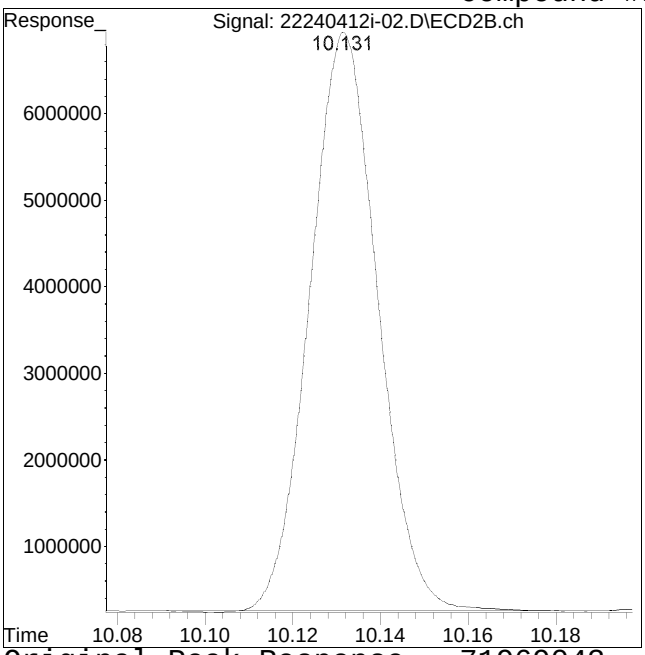
Manual Peak Response = 79147594 M4

M4 = Poor automated baseline construction.

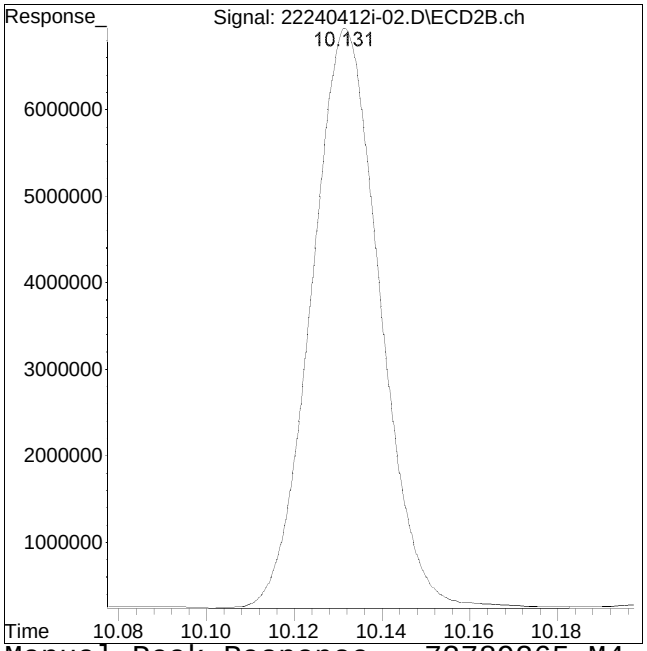
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #25: Dinoseb #2



Original Peak Response = 71969043



Manual Peak Response = 72789265 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	766.6E6	713.2E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	65965180	60068272	0.114M4	0.113M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	22.80%#	22.60%#
		Target Compounds						
2)	t	Dalapon	2.424	2.420	63862421	54348641	0.102M4	0.097M3
4)	t	Dicamba	7.213	7.677	190.1E6	170.6E6	0.114M4	0.106M4
5)	t	MCPP	7.414	7.788	14933212	20689286	9.144M4	10.250M4
6)	t	MCPA	7.559	8.013	30631672	36896219	11.261M4	11.563M4
7)	t	Dichloroprop	7.915	8.330	63381649	57364341	0.118M4	0.114M4
8)	t	2,4-D	8.123	8.602	77300208	68835400	0.114M4	0.109M4
9)	t	2,4,5-TP (Si	8.840	9.260	278.1E6	251.0E6	0.111M3	0.109M4
10)	t	2,4,5-T	9.056	9.546	271.4E6	240.4E6	0.110M4	0.106
11)	t	2,4-DB	9.463	9.907	43677635	41468808	0.118M4	0.110M4
12)	t	Dinoseb	10.216	10.131	155.1E6	140.9E6	0.108M4	0.105

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

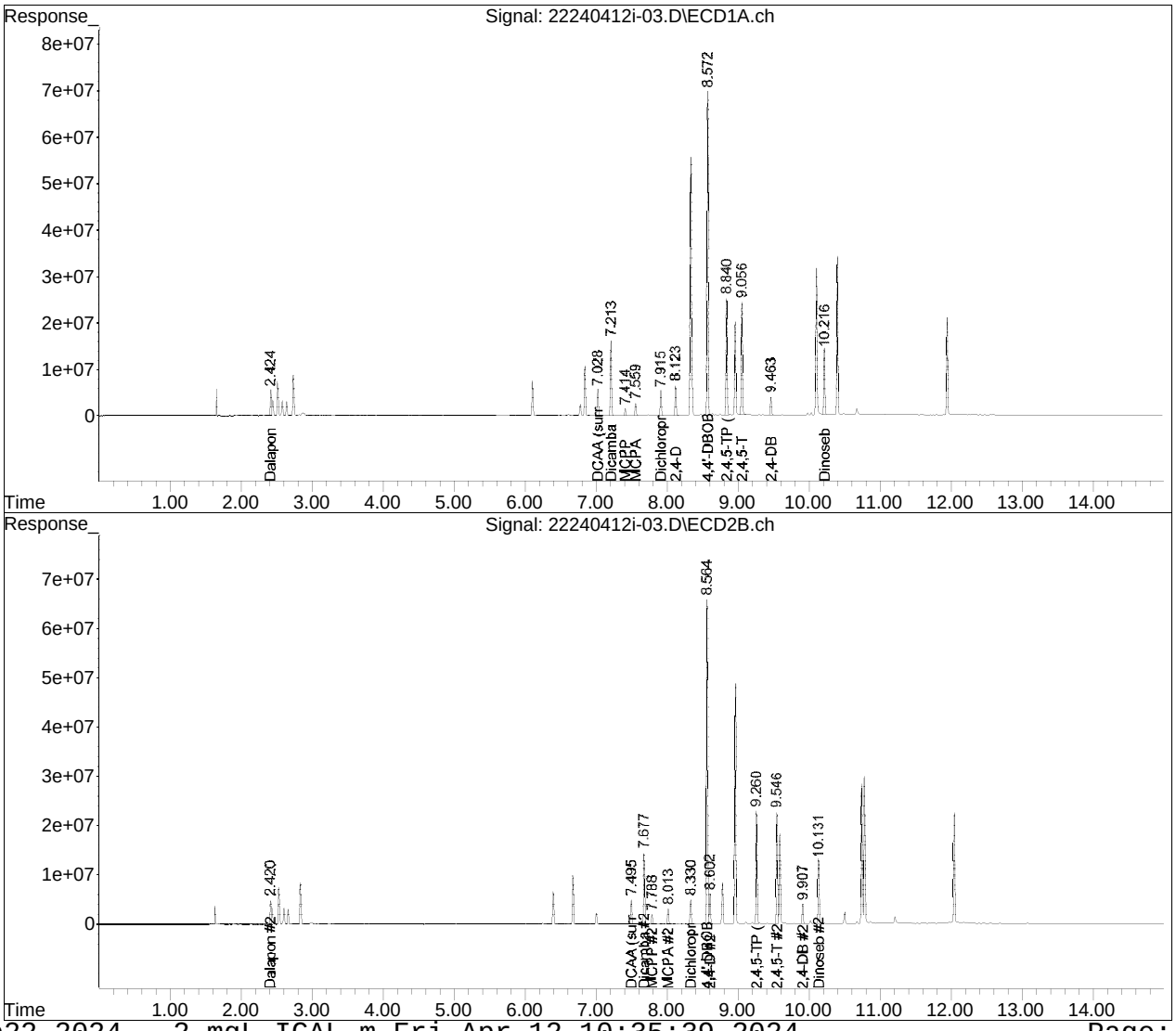
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

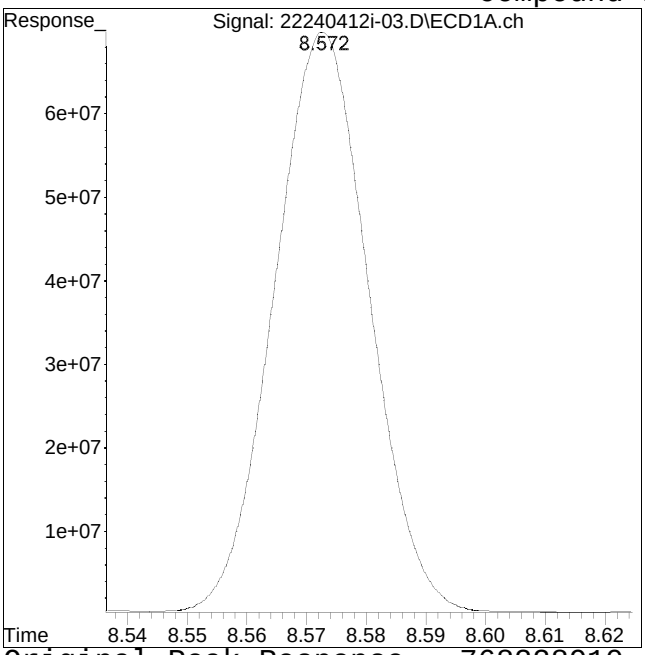
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

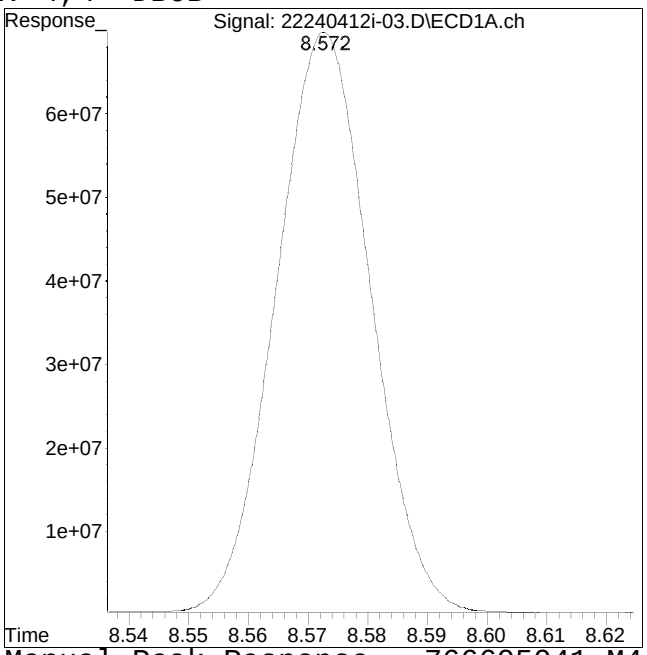


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #1: 4,4'-DBOB



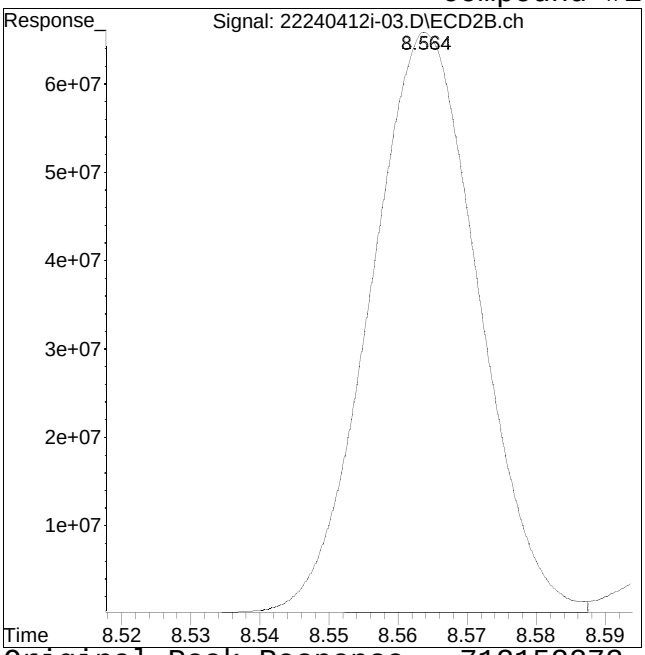


Original Peak Response = 768228910 Manual Peak Response = 766605041 M4
M4 = Poor automated baseline construction.

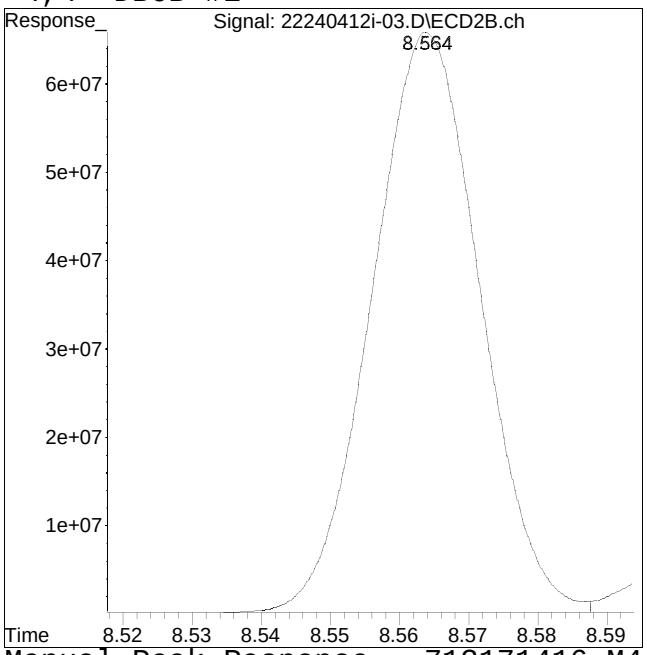
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 712152273

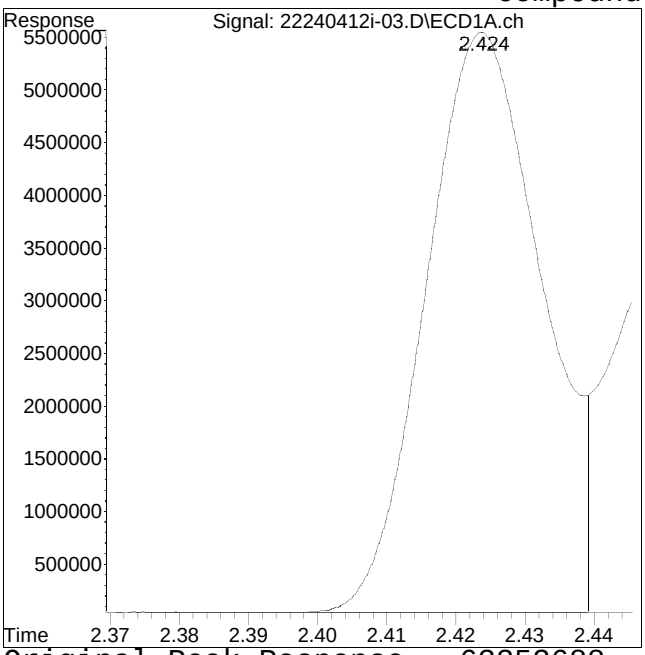


Manual Peak Response = 713171416 M4
M4 = Poor automated baseline construction.

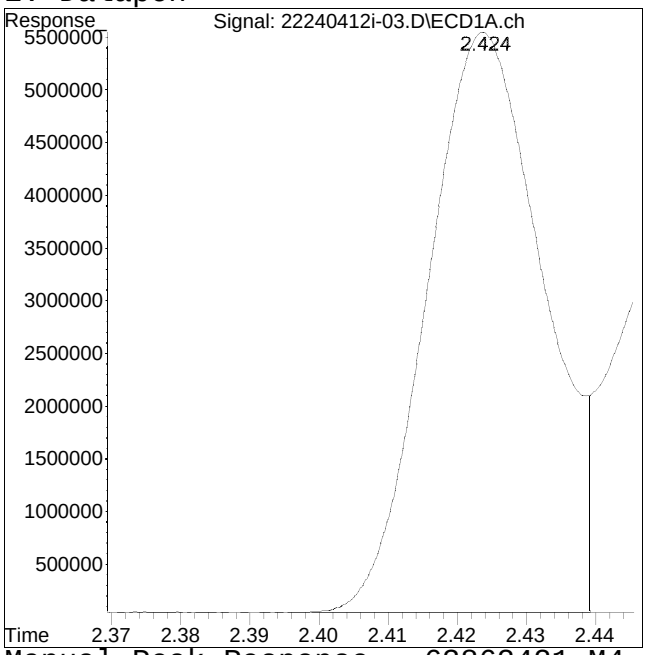
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #2: Dalapon



Original Peak Response = 63353688



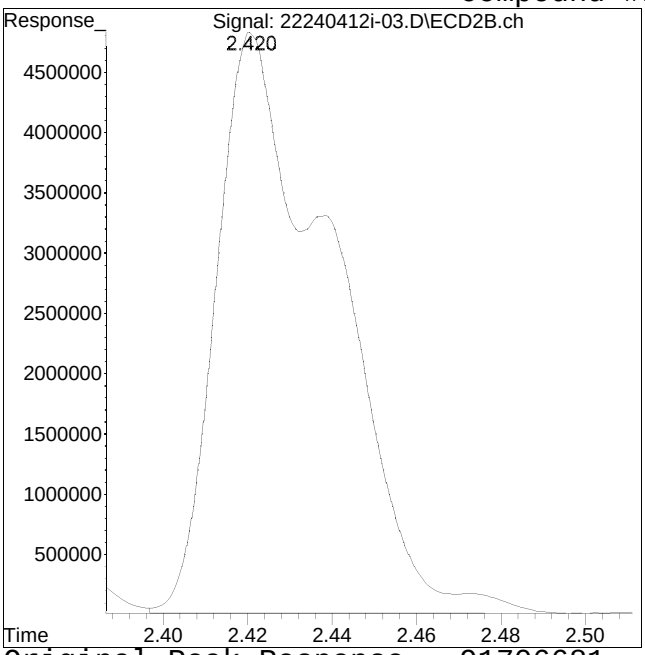
Manual Peak Response = 63862421 M4

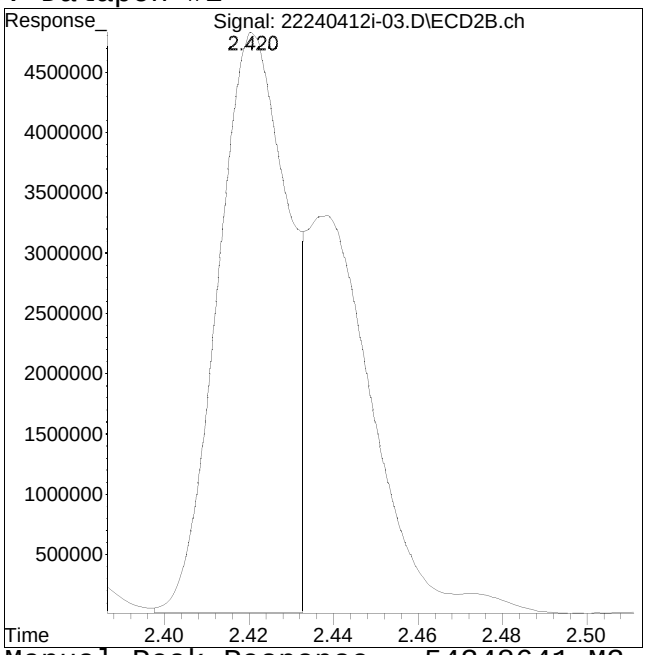
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #15: Dalapon #2



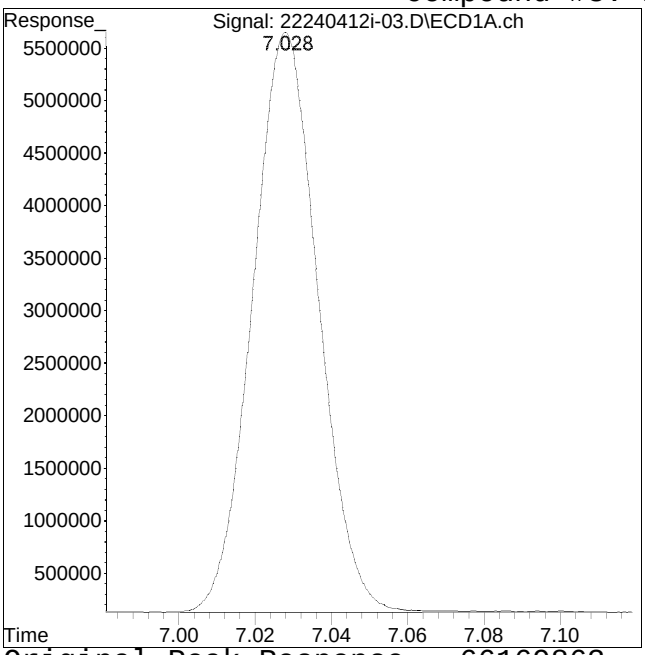


Original Peak Response = 91706681 Manual Peak Response = 54348641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

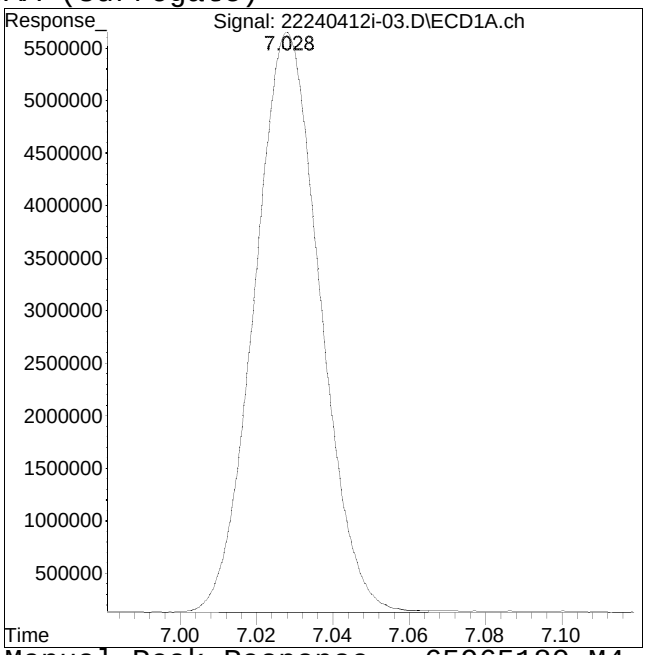
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #3: DCAA (surrogate)



Original Peak Response = 66169863

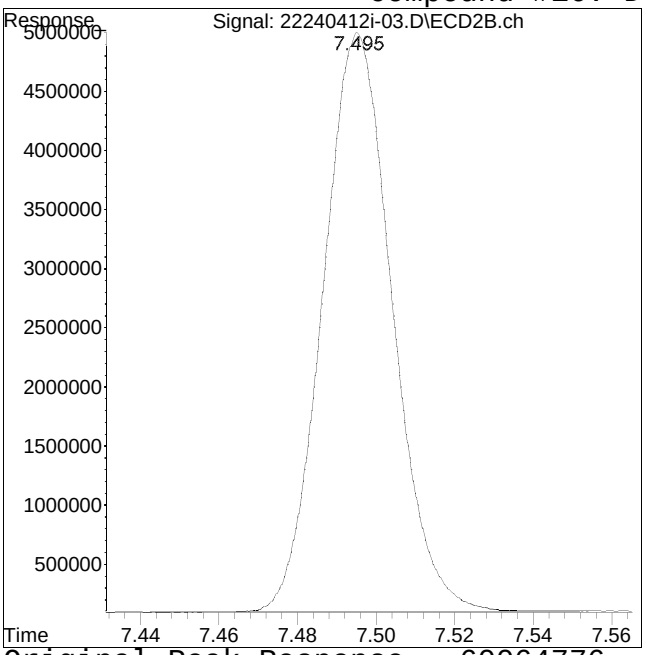


Manual Peak Response = 65965180 M4
M4 = Poor automated baseline construction.

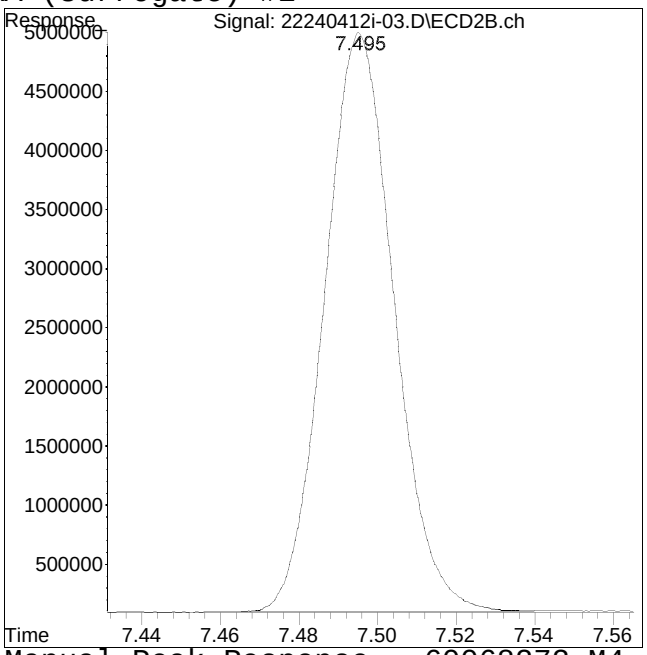
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 60064776



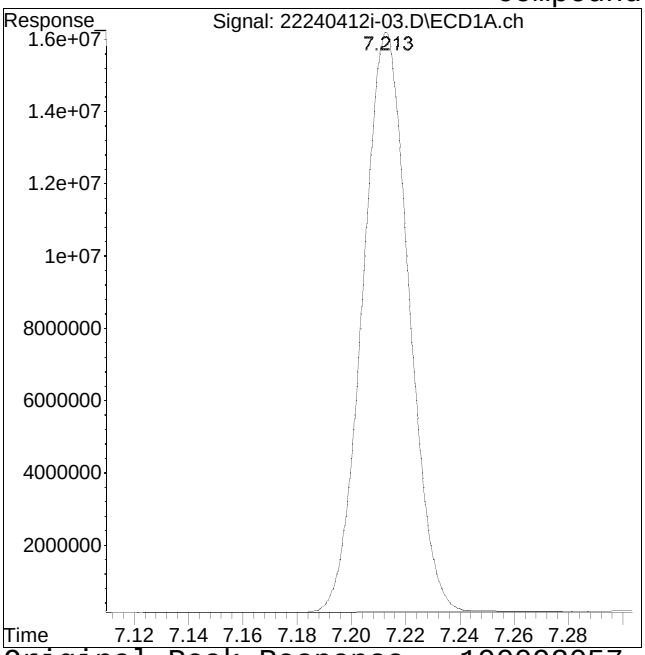
Manual Peak Response = 60068272 M4

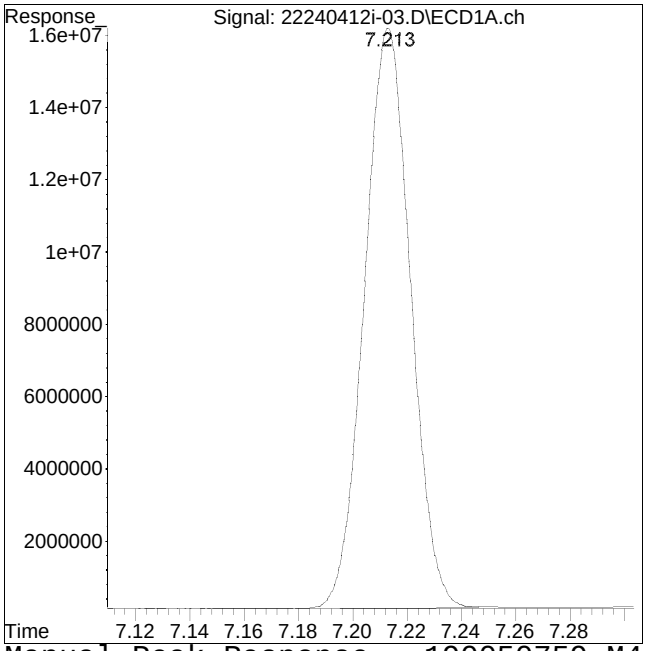
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #4: Dicamba



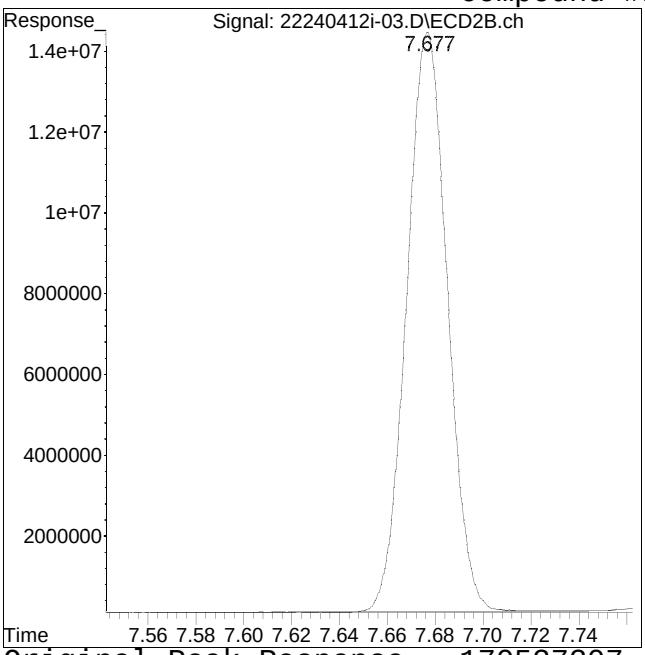


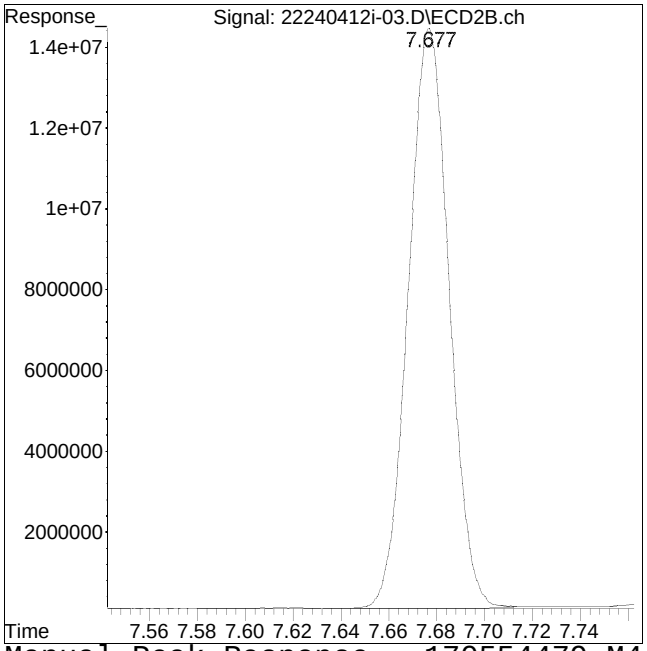
Original Peak Response = 190092057 Manual Peak Response = 190050759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #17: Dicamba #2



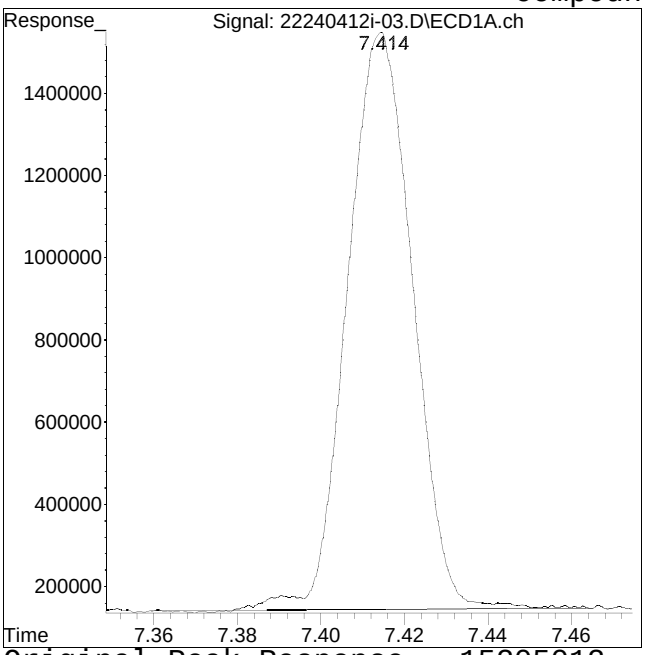


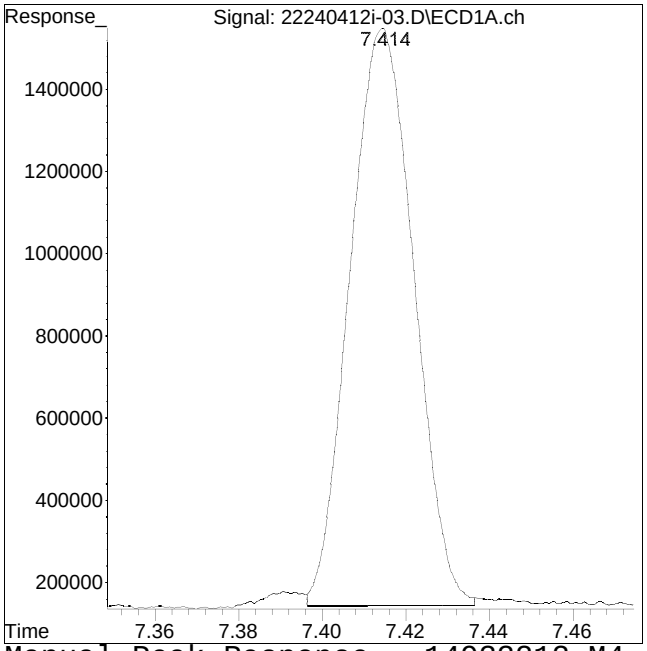
Original Peak Response = 170537307 Manual Peak Response = 170554479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #5: MCPP



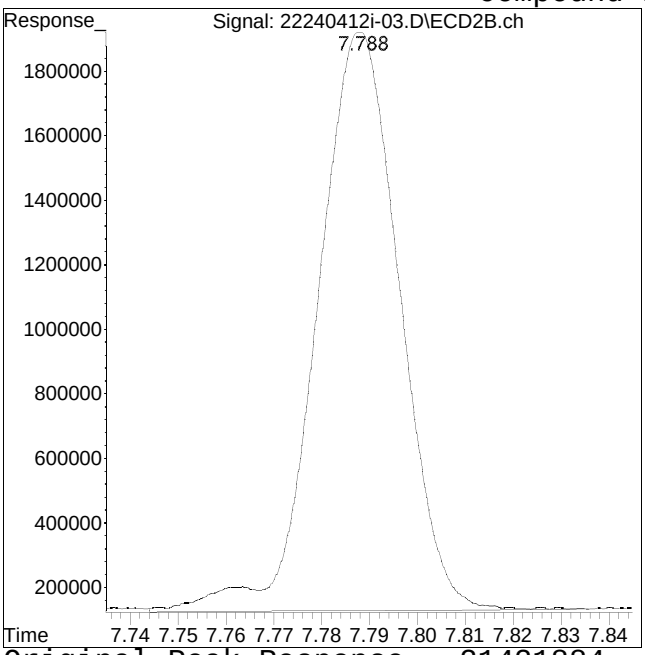


Original Peak Response = 15205012 Manual Peak Response = 14933212 M4
M4 = Poor automated baseline construction.

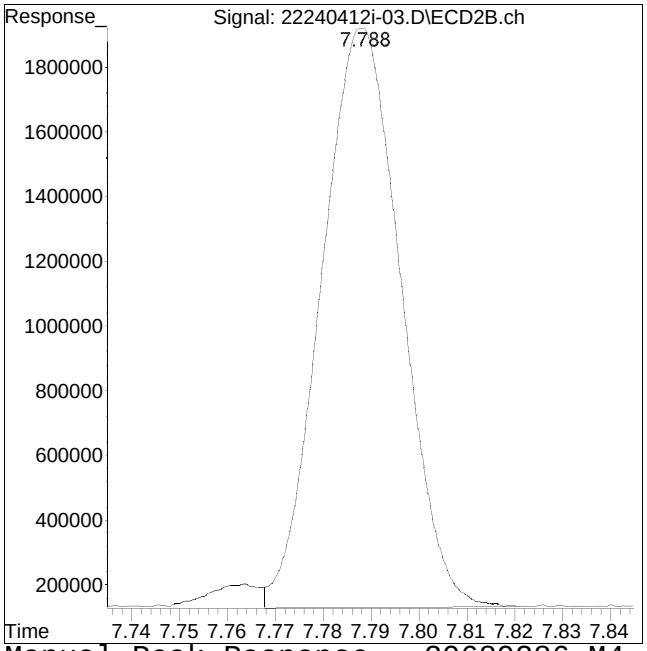
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #18: MCPP #2



Original Peak Response = 21421884



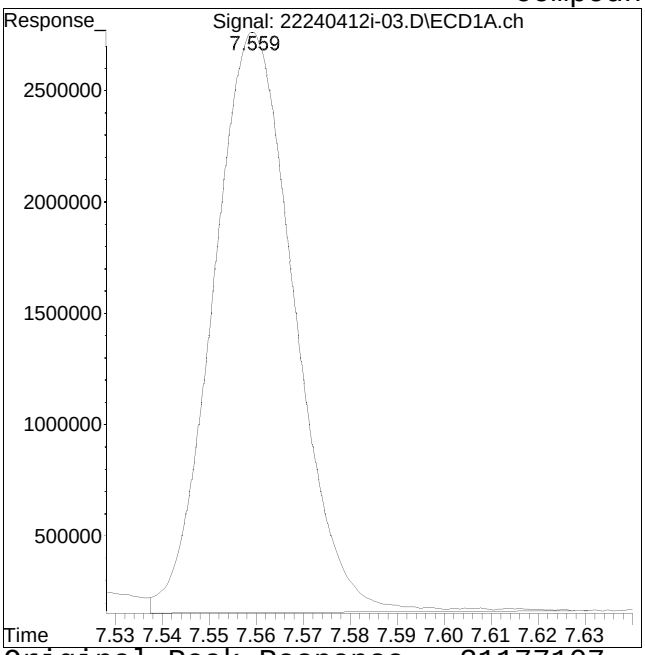
Manual Peak Response = 20689286 M4

M4 = Poor automated baseline construction.

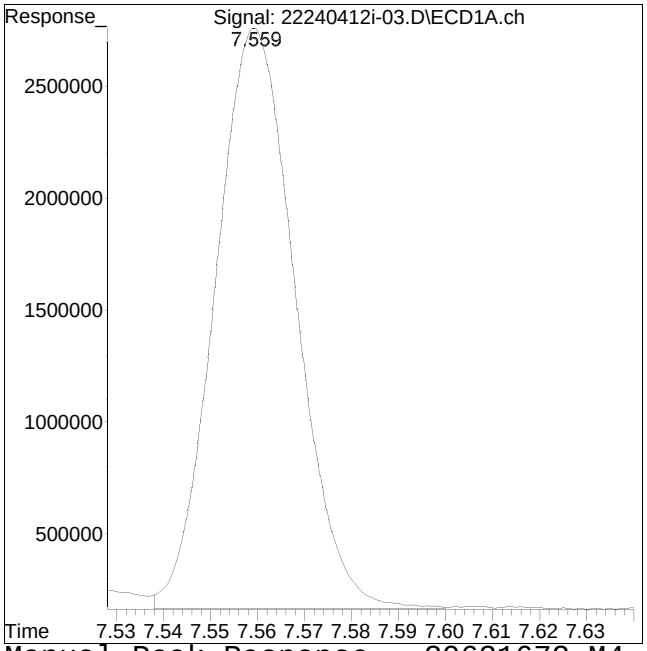
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #6: MCPA



Original Peak Response = 31177107



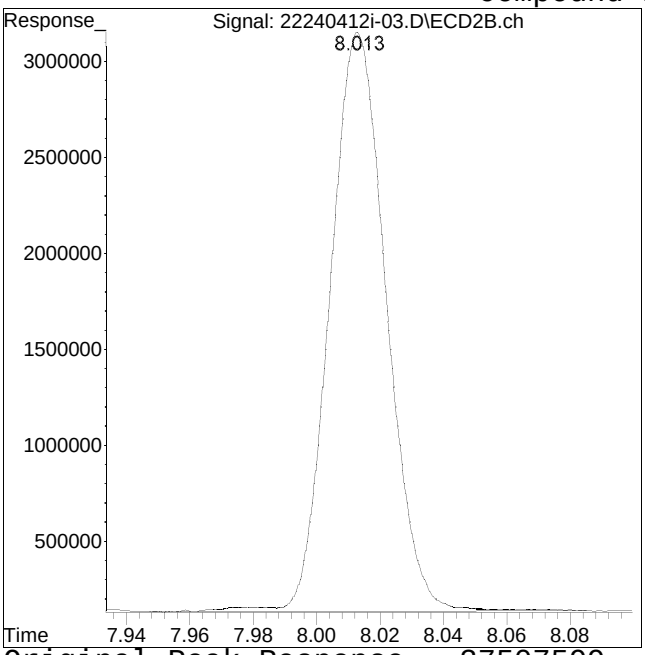
Manual Peak Response = 30631672 M4

M4 = Poor automated baseline construction.

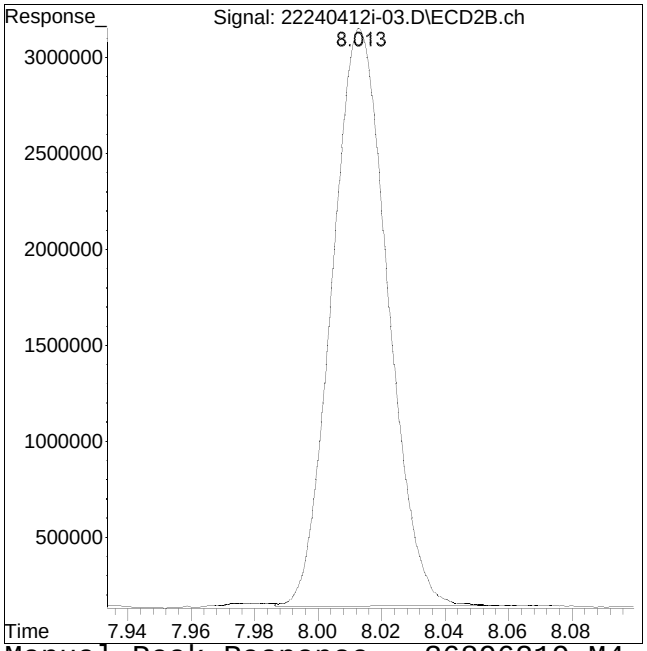
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #19: MCPA #2



Original Peak Response = 37507599



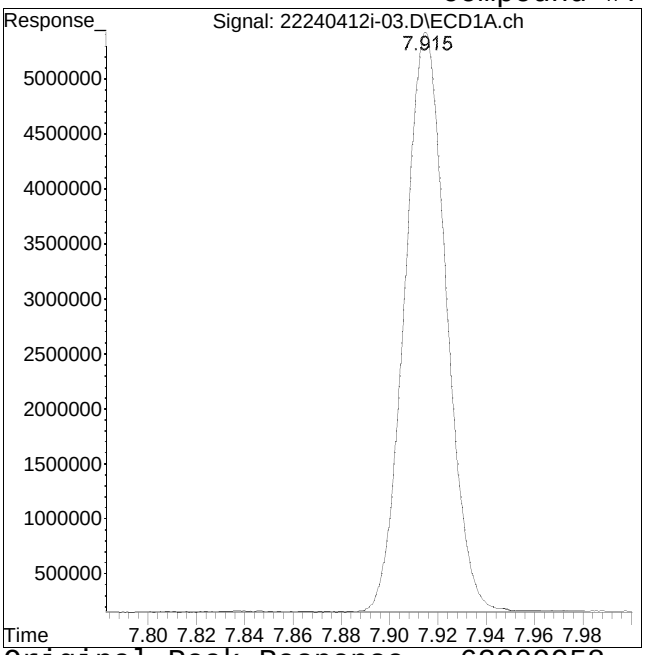
Manual Peak Response = 36896219 M4

M4 = Poor automated baseline construction.

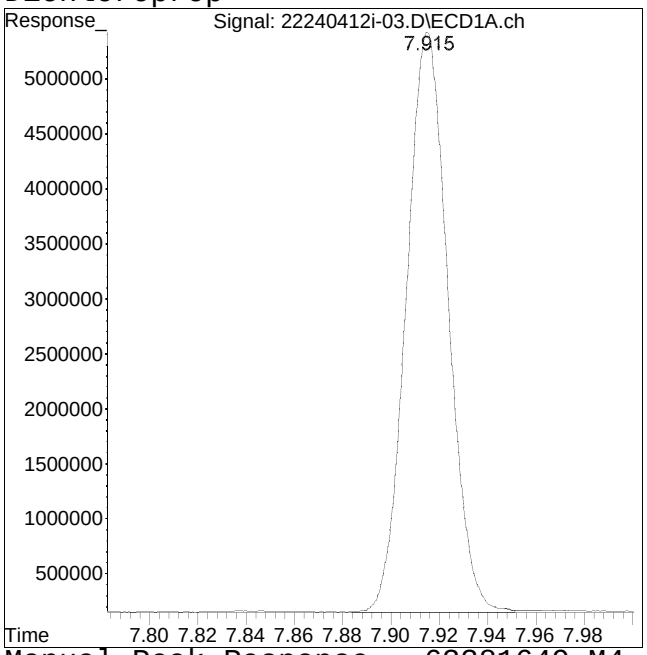
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #7: Dichloroprop



Original Peak Response = 63309958



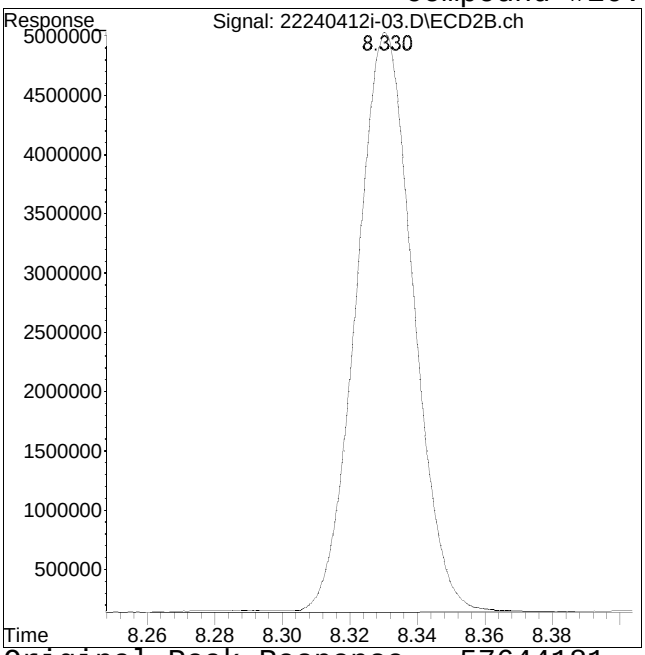
Manual Peak Response = 63381649 M4

M4 = Poor automated baseline construction.

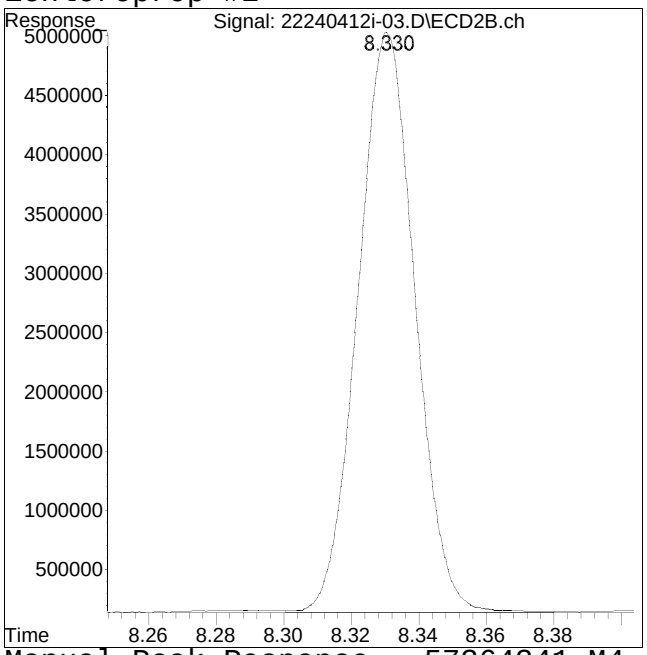
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #20: Dichloroprop #2



Original Peak Response = 57644181



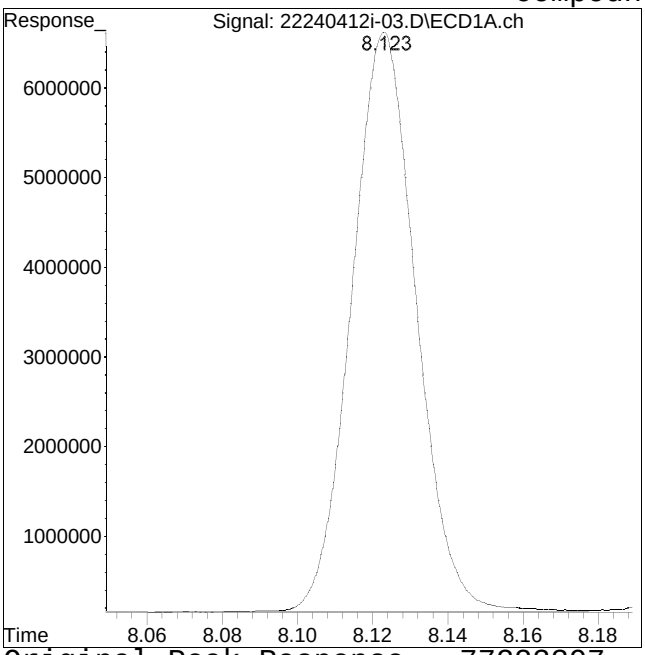
Manual Peak Response = 57364341 M4

M4 = Poor automated baseline construction.

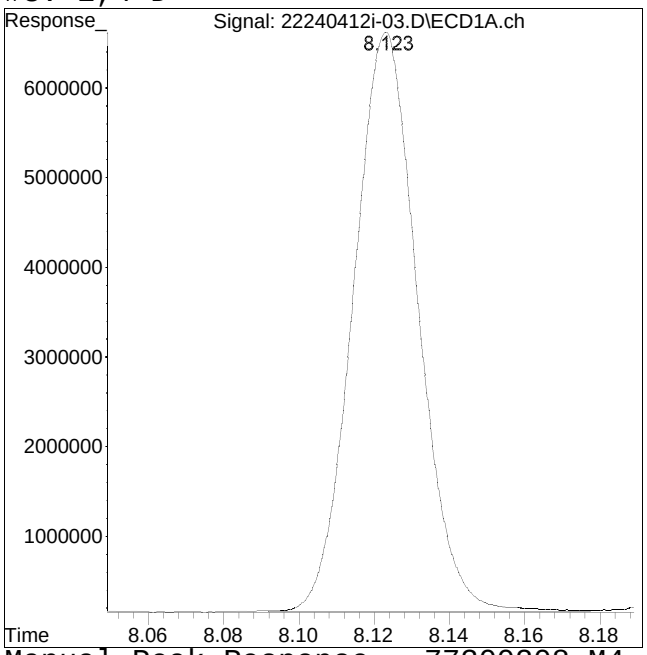
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #8: 2,4-D



Original Peak Response = 77223397



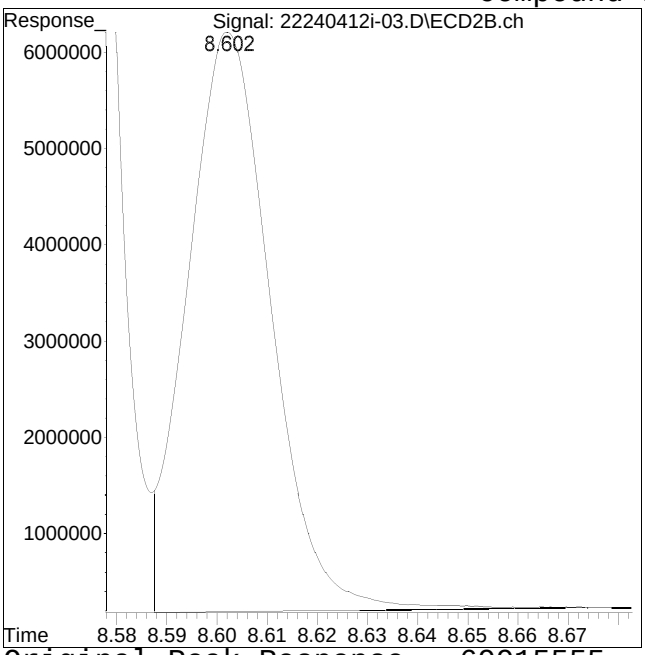
Manual Peak Response = 77300208 M4

M4 = Poor automated baseline construction.

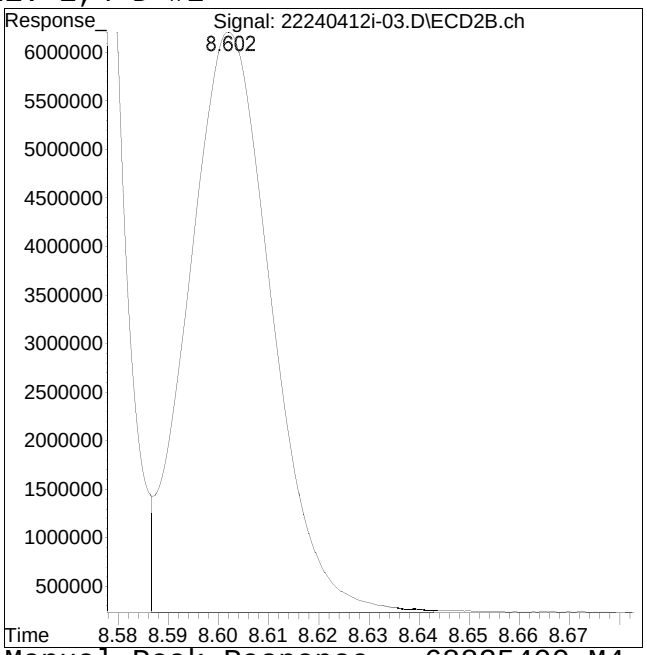
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #21: 2,4-D #2



Original Peak Response = 69915555



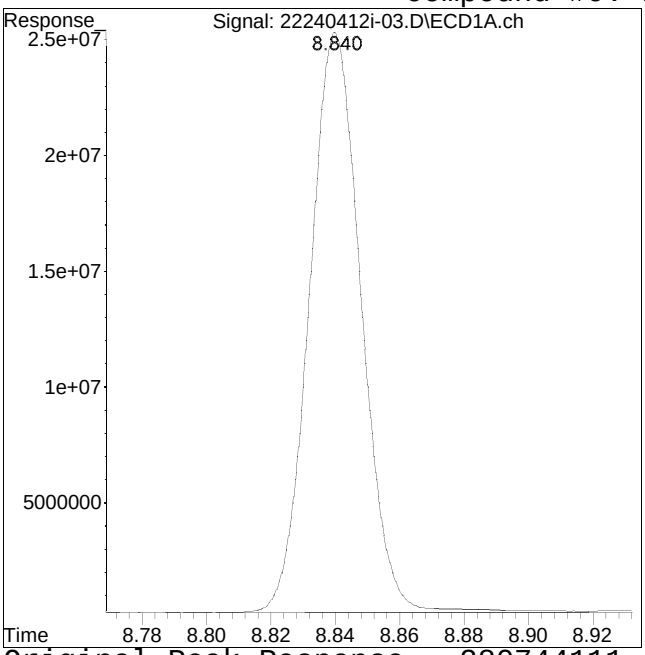
Manual Peak Response = 68835400 M4

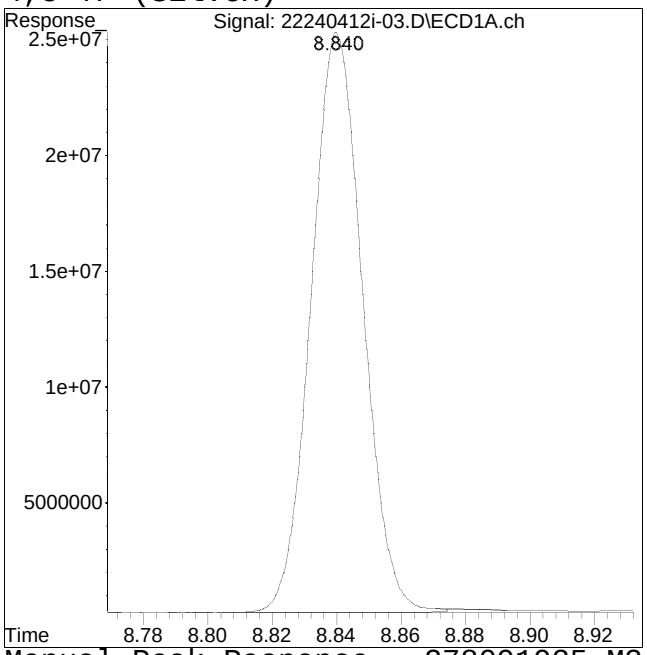
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #9: 2,4,5-TP (Silvex)



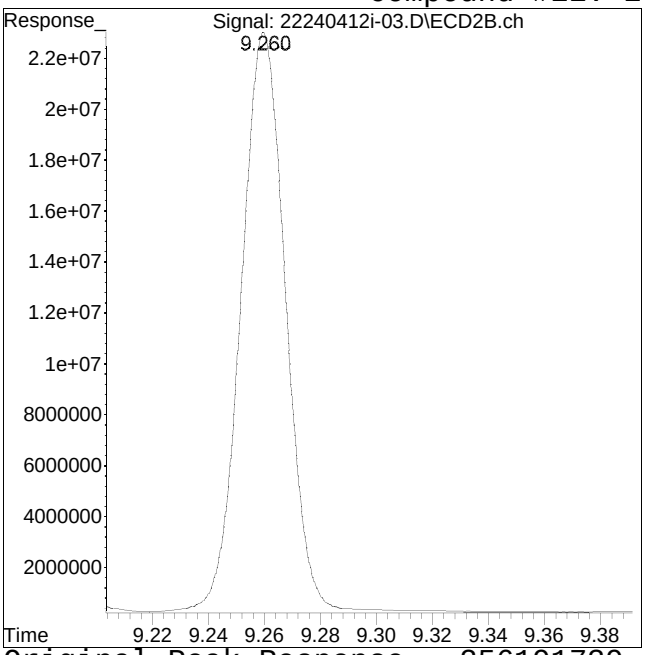


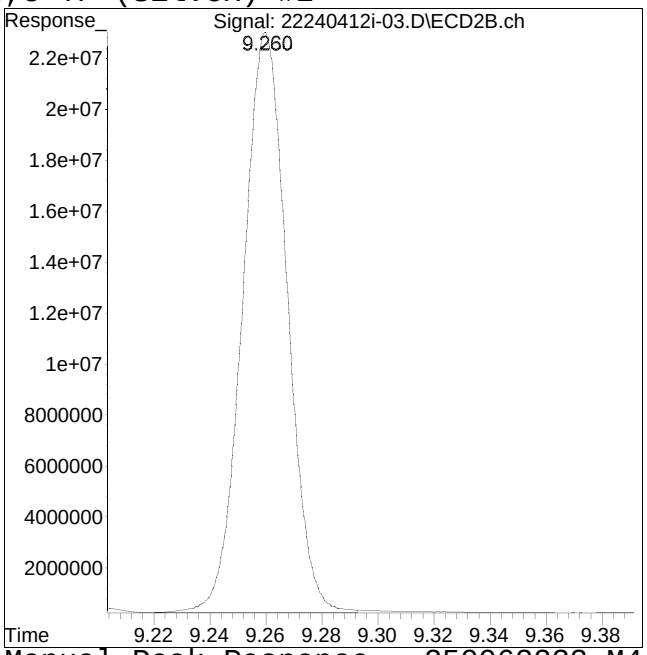
Original Peak Response = 280744111 Manual Peak Response = 278091925 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #22: 2,4,5-TP (Silvex) #2



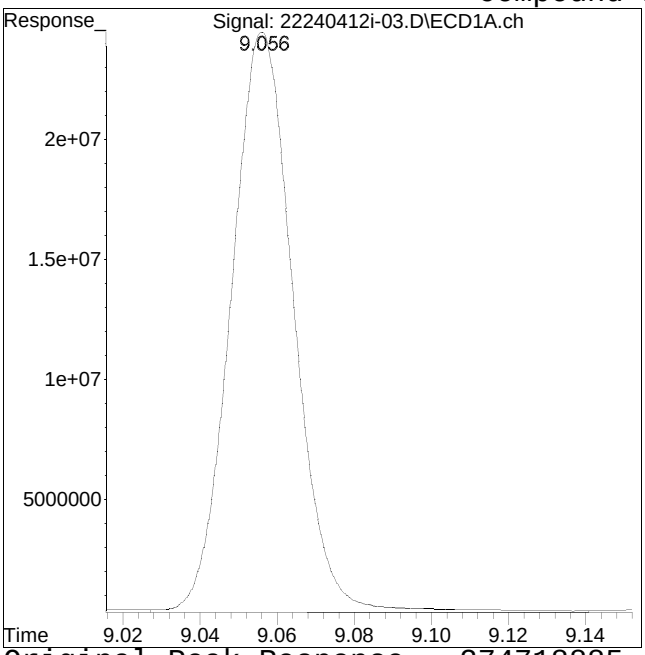


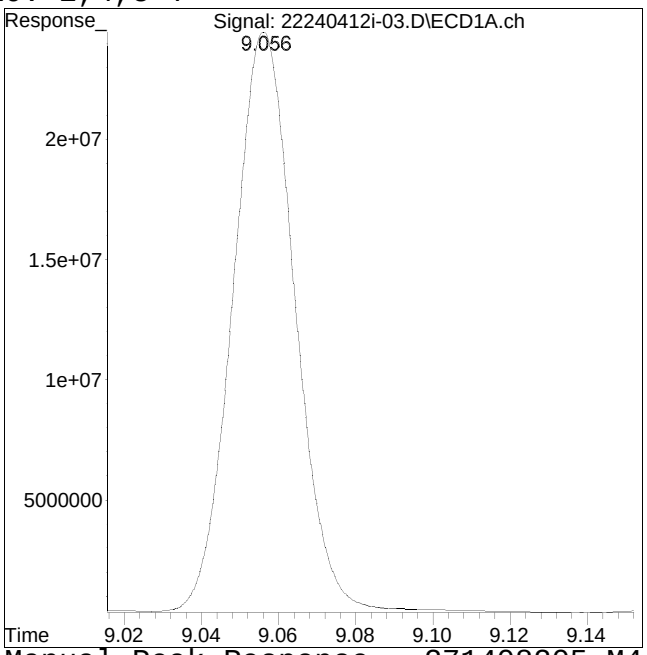
Original Peak Response = 256191739 Manual Peak Response = 250962233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #10: 2,4,5-T



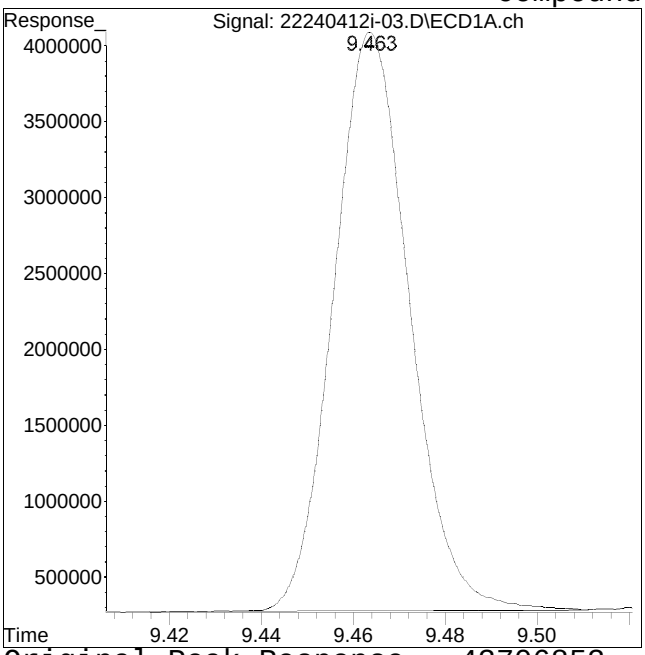


Original Peak Response = 274718885 Manual Peak Response = 271408205 M4
M4 = Poor automated baseline construction.

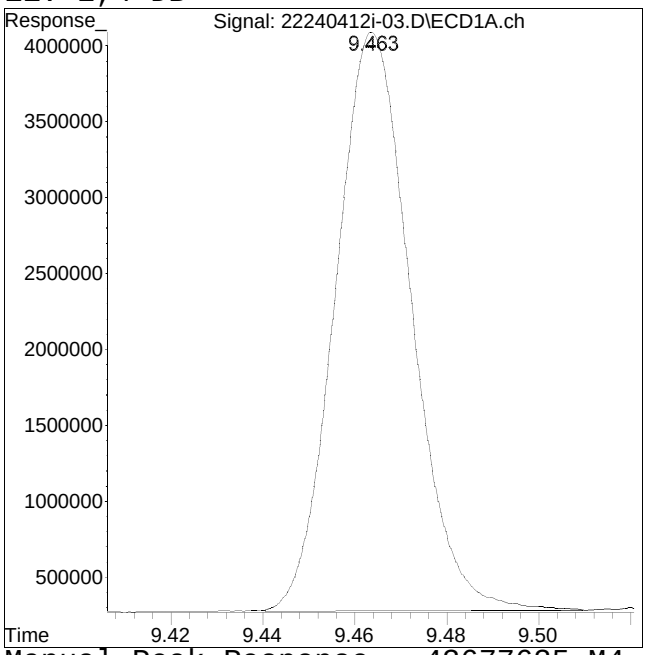
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #11: 2,4-DB



Original Peak Response = 43706853



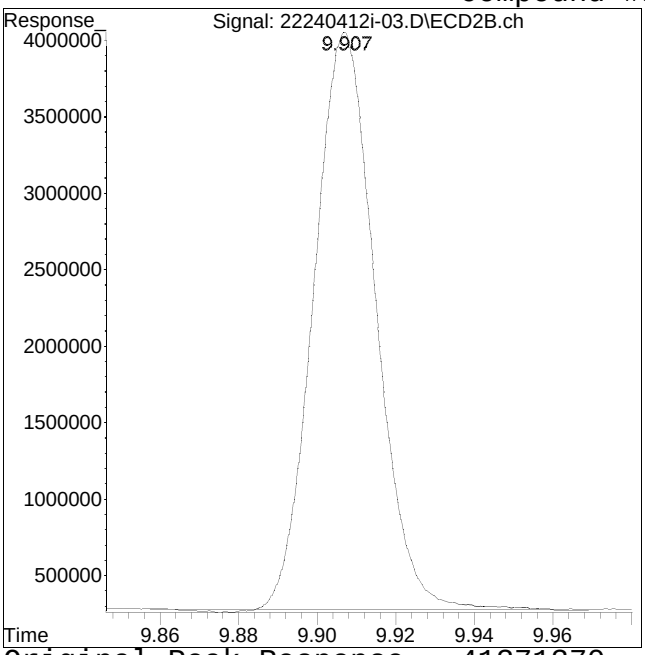
Manual Peak Response = 43677635 M4

M4 = Poor automated baseline construction.

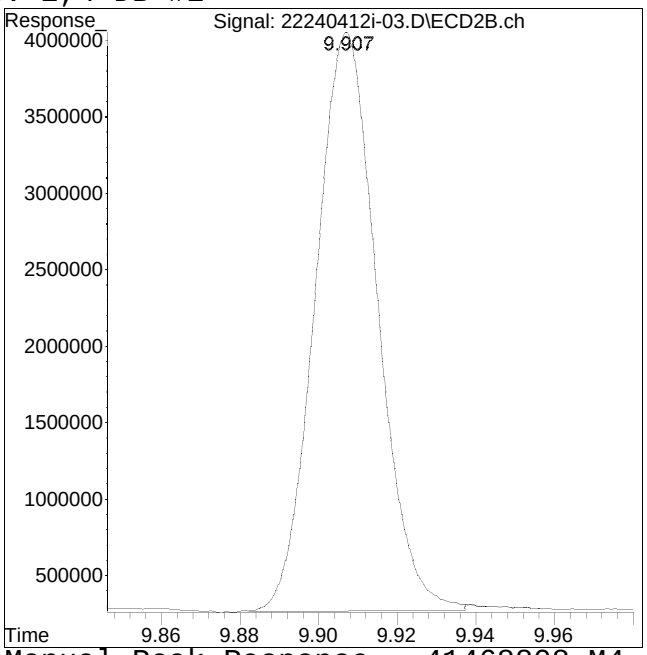
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #24: 2,4-DB #2



Original Peak Response = 41371370



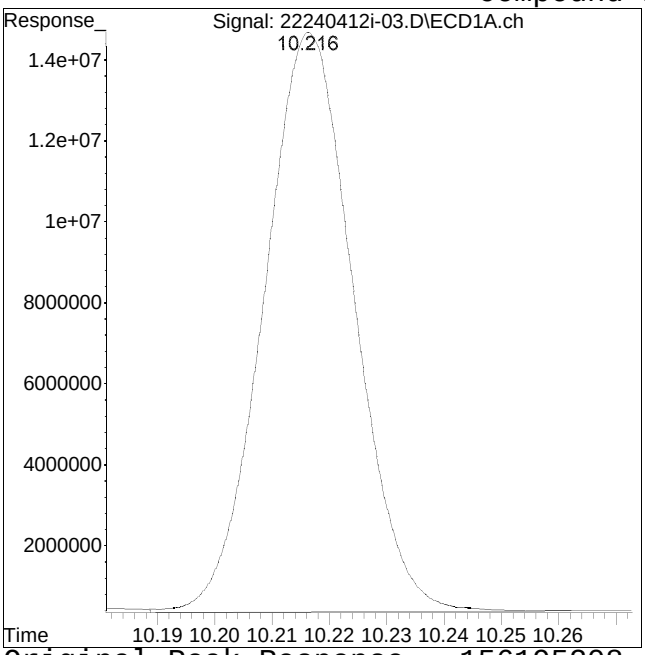
Manual Peak Response = 41468808 M4

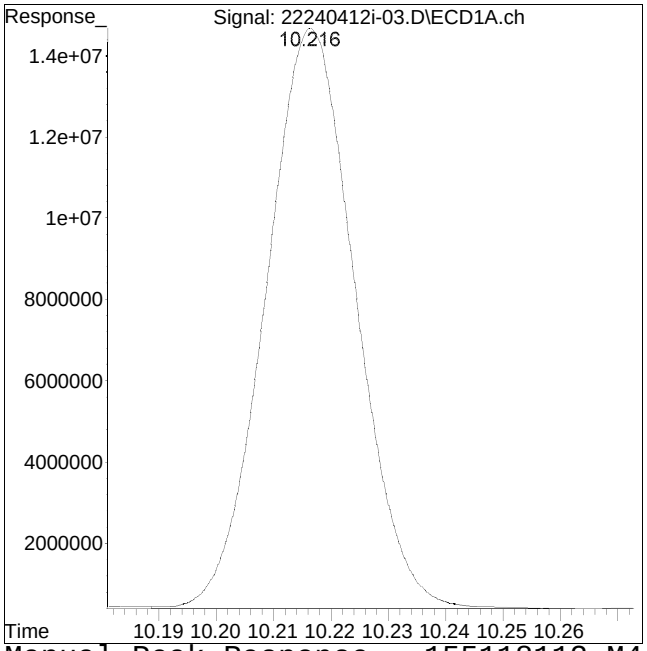
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #12: Dinoseb





Original Peak Response = 156195208 Manual Peak Response = 155118112 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	756.3E6	703.2E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	123.2E6	111.1E6	NoCal	NoCal M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
2)	t	Dalapon	2.422	2.419	119.9E6	102.9E6	NoCal	NoCal M3
4)	t	Dicamba	7.212	7.677	355.2E6	323.0E6	NoCal M4	NoCal M4
5)	t	MCPP	7.413	7.787	31114458	39358453	NoCal M4	NoCal M3
6)	t	MCPA	7.559	8.013	57229158	66517204	NoCal	NoCal M4
7)	t	Dichloroprop	7.914	8.330	117.1E6	105.4E6	NoCal M4	NoCal M4
8)	t	2,4-D	8.123	8.602	144.4E6	127.9E6	NoCal M4	NoCal M4
9)	t	2,4,5-TP (Si	8.840	9.260	531.6E6	472.3E6	NoCal M4	NoCal M4
10)	t	2,4,5-T	9.056	9.546	515.7E6	455.2E6	NoCal M4	NoCal
11)	t	2,4-DB	9.463	9.907	81317538	77337034	NoCal	NoCal
12)	t	Dinoseb	10.216	10.131	298.6E6	267.3E6	NoCal M4	NoCal
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

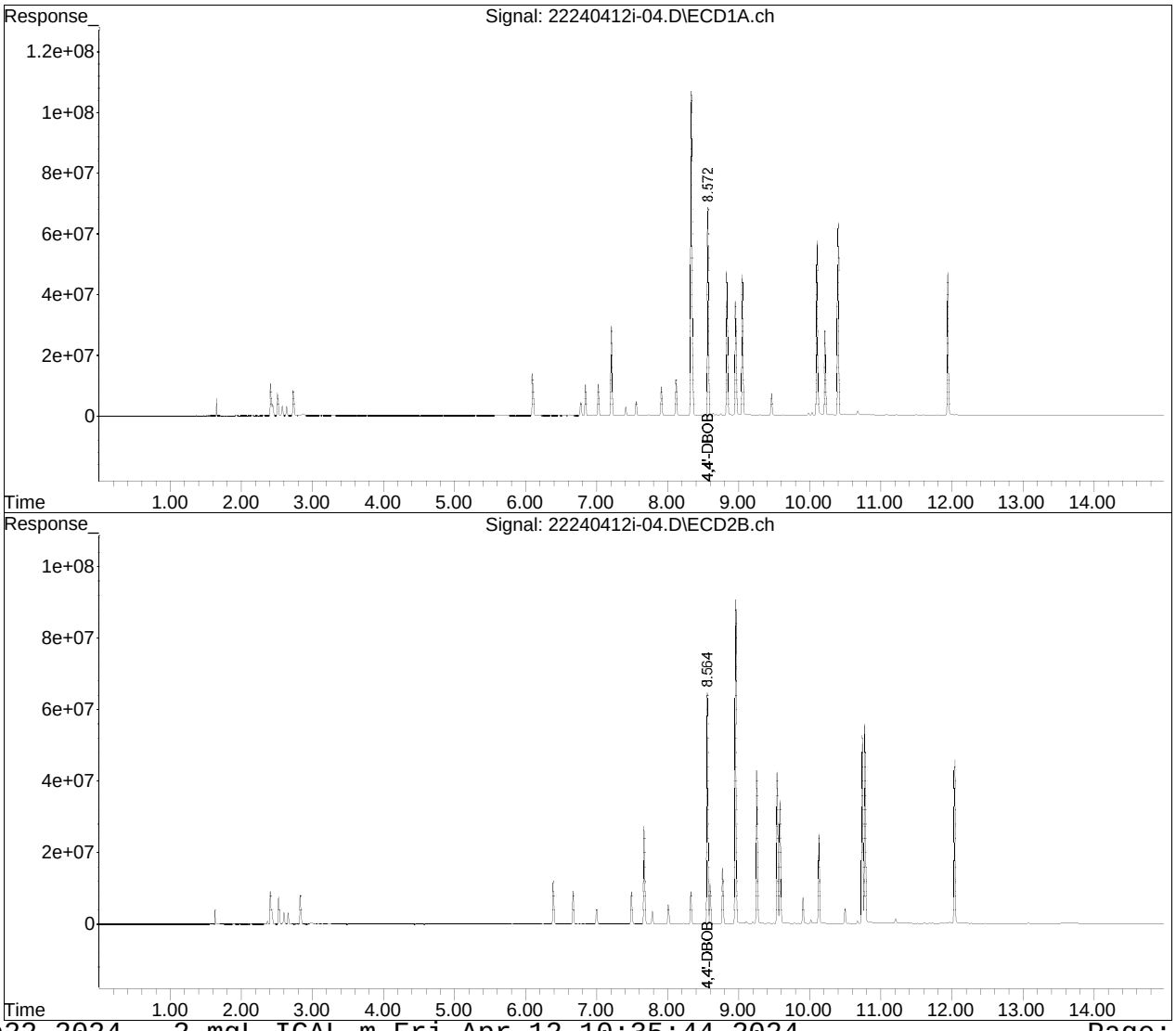
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

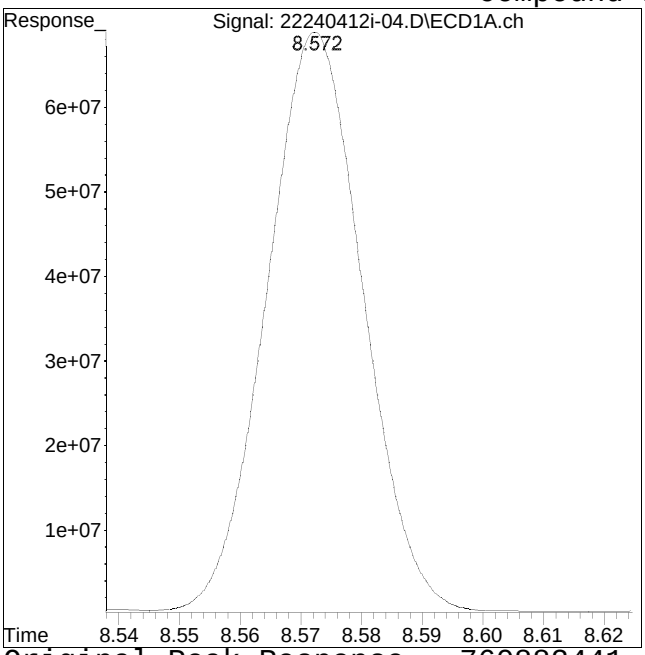
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

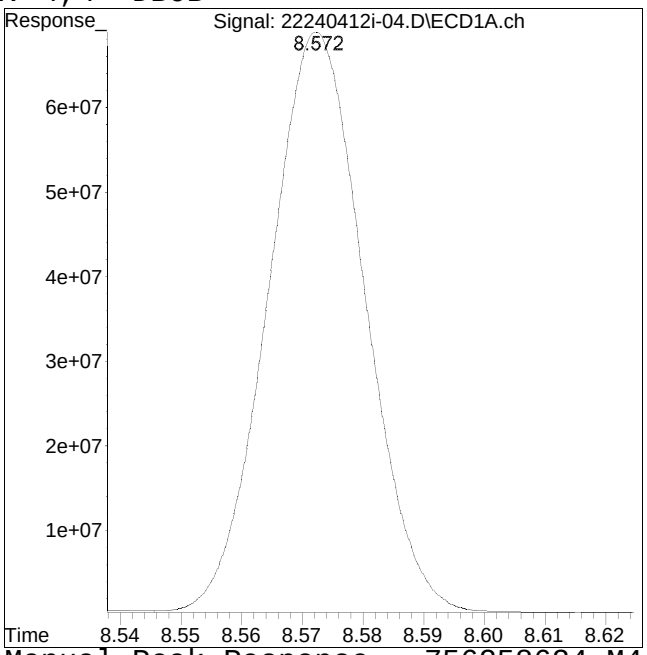


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #1: 4,4'-DBOB



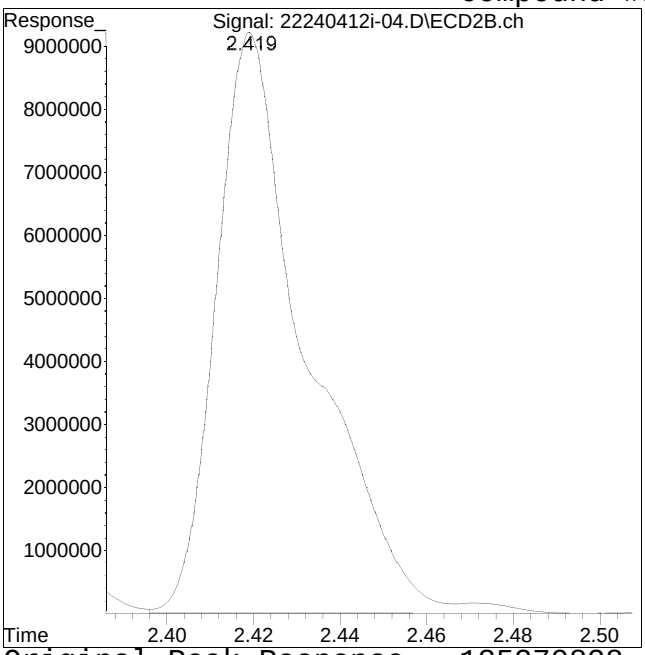


Original Peak Response = 760882441 Manual Peak Response = 756258624 M4
M4 = Poor automated baseline construction.

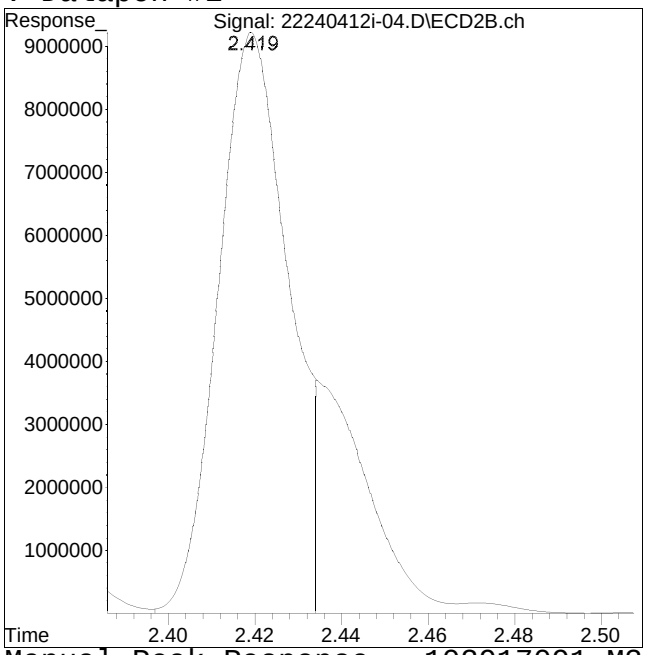
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #15: Dalapon #2



Original Peak Response = 135270828



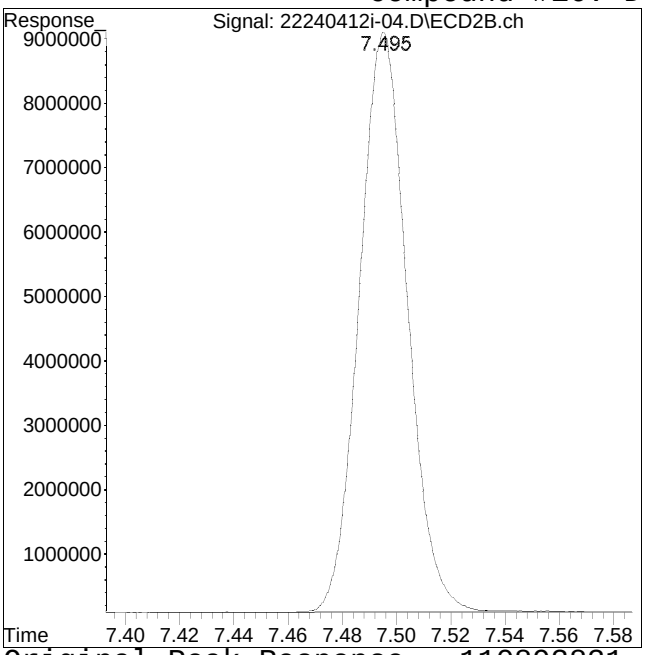
Manual Peak Response = 102917091 M3

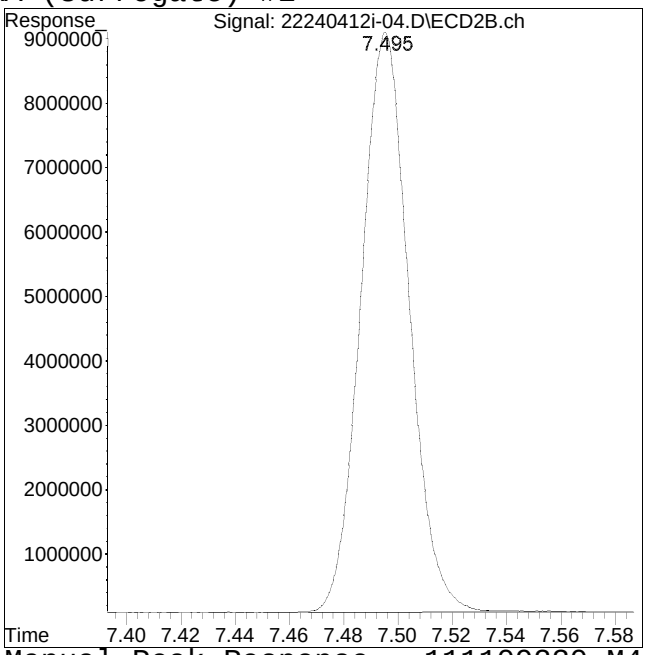
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #16: DCAA (surrogate) #2



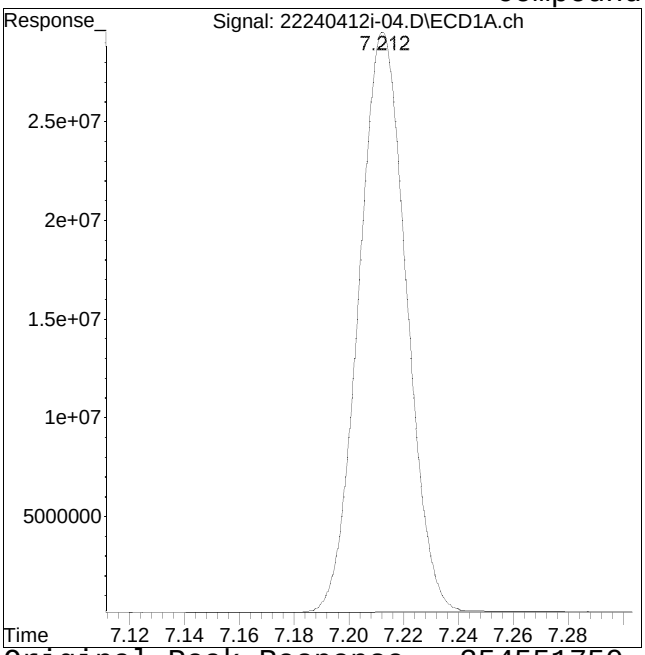


Original Peak Response = 110893831 Manual Peak Response = 111109230 M4
M4 = Poor automated baseline construction.

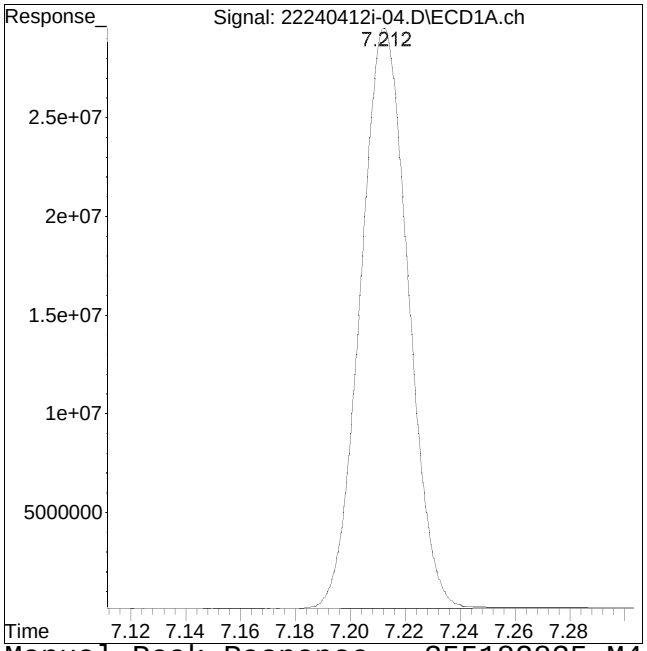
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #4: Dicamba



Original Peak Response = 354551750



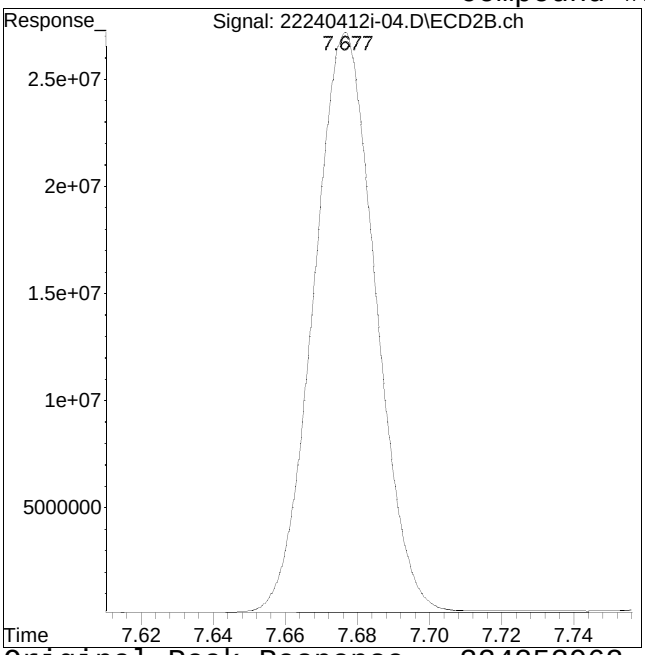
Manual Peak Response = 355182835 M4

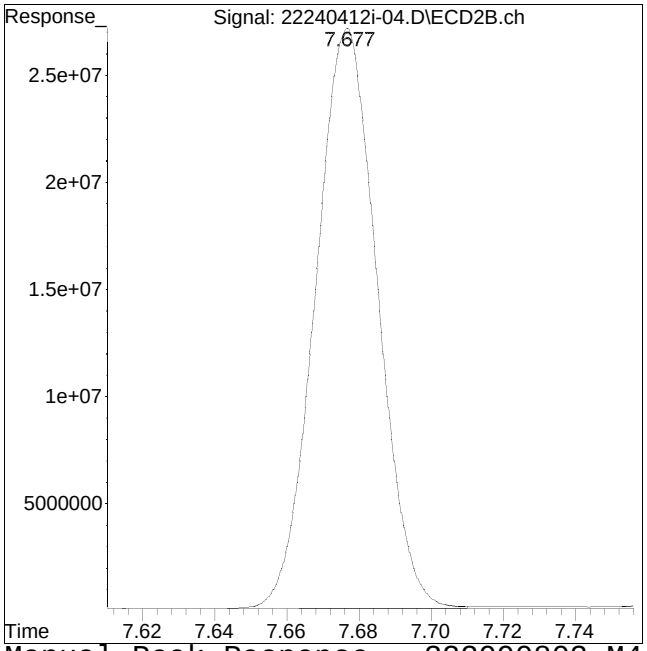
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #17: Dicamba #2



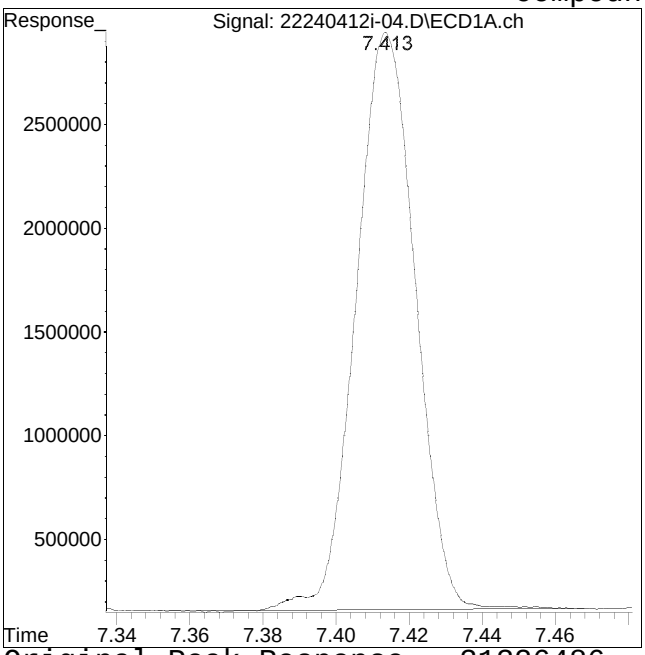


Original Peak Response = 324253962 Manual Peak Response = 322990803 M4
M4 = Poor automated baseline construction.

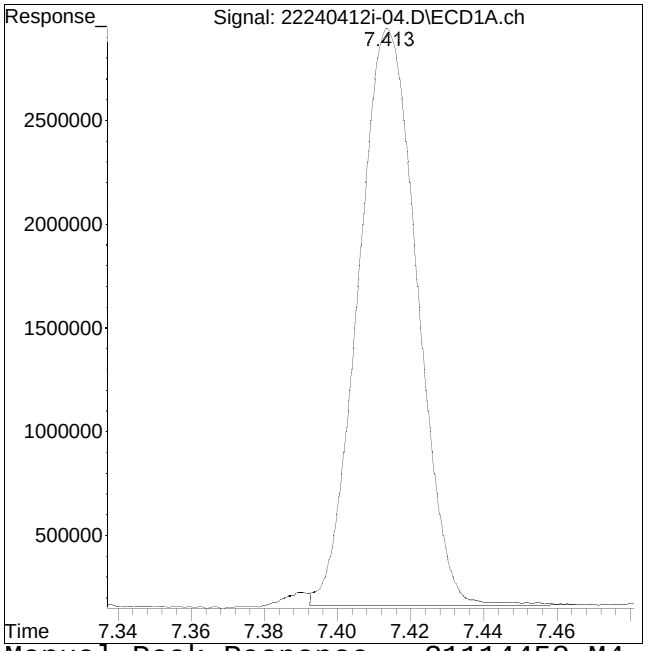
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #5: MCPP



Original Peak Response = 31326486



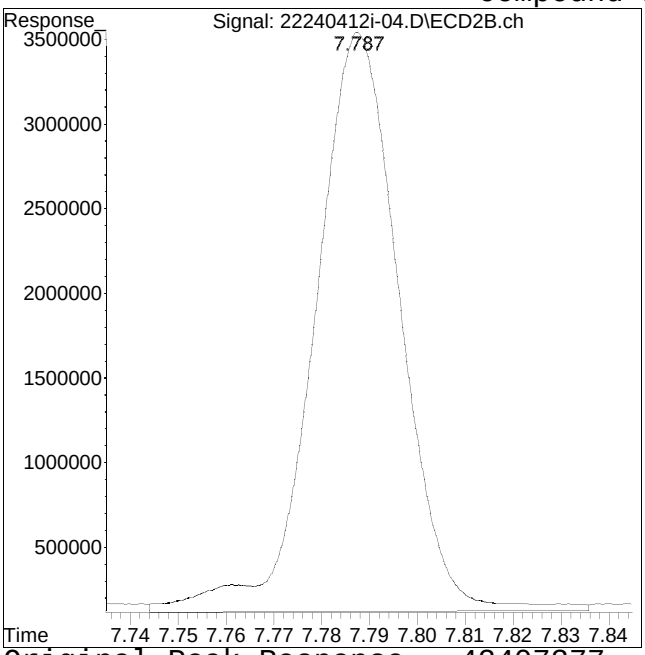
Manual Peak Response = 31114458 M4

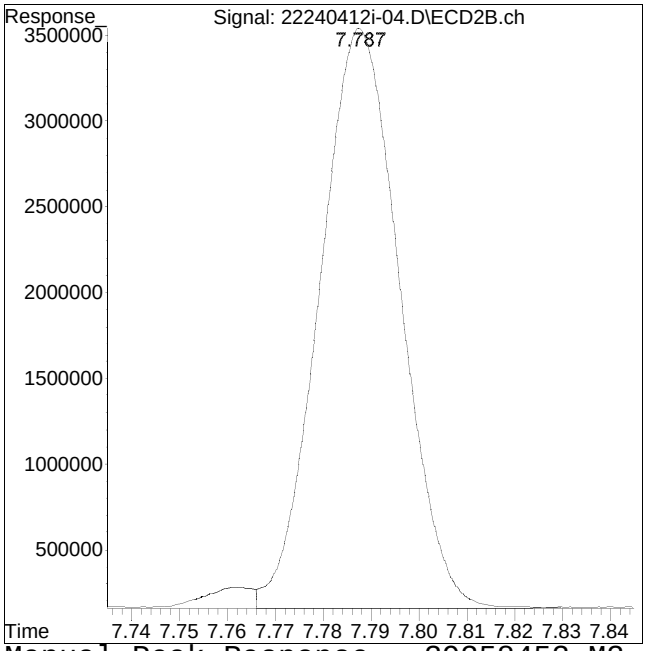
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #18: MCPP #2



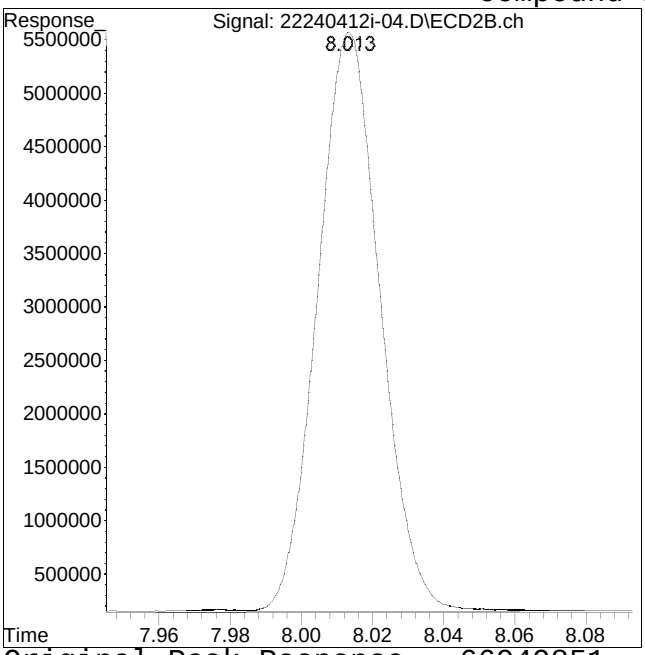


Original Peak Response = 42407377 Manual Peak Response = 39358453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

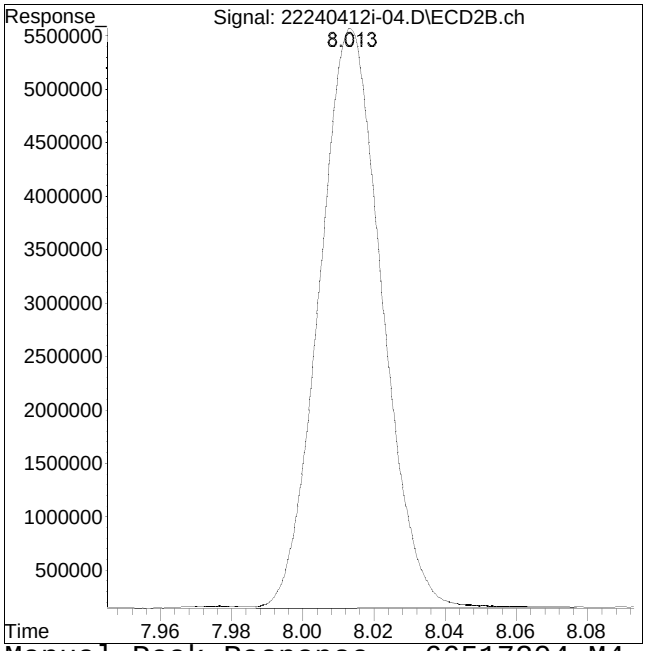
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #19: MCPA #2



Original Peak Response = 66949851



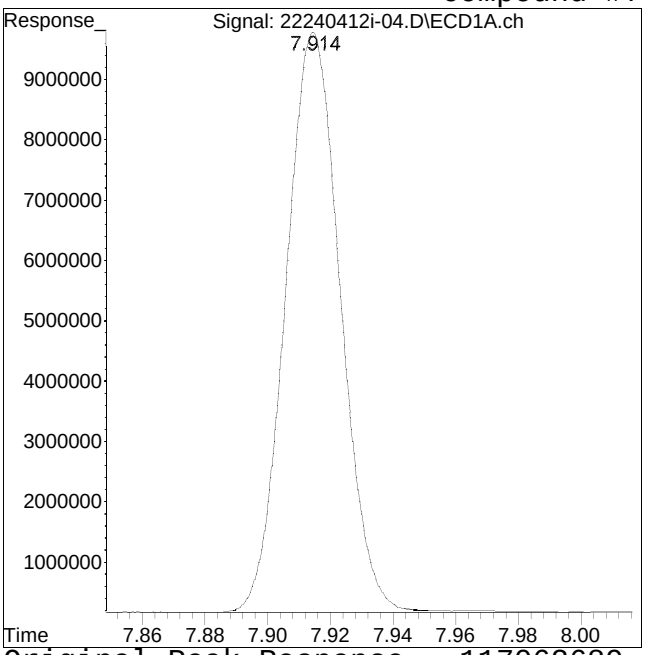
Manual Peak Response = 66517204 M4

M4 = Poor automated baseline construction.

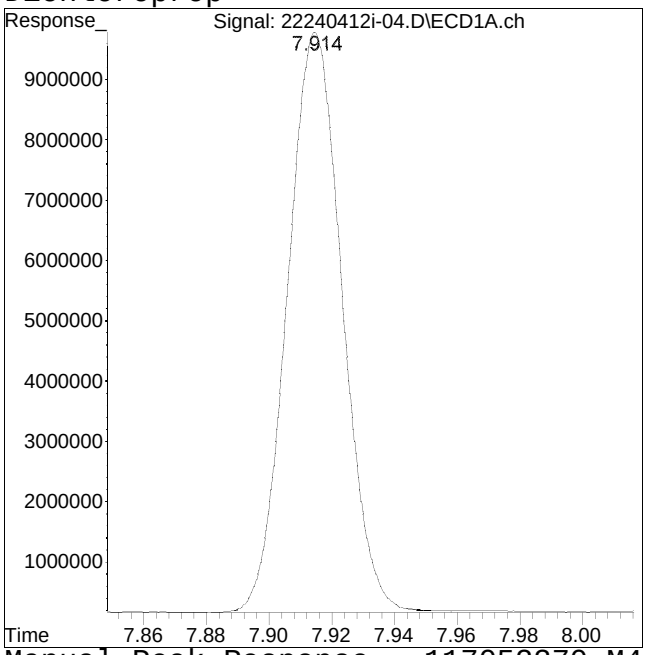
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #7: Dichloroprop



Original Peak Response = 117062689

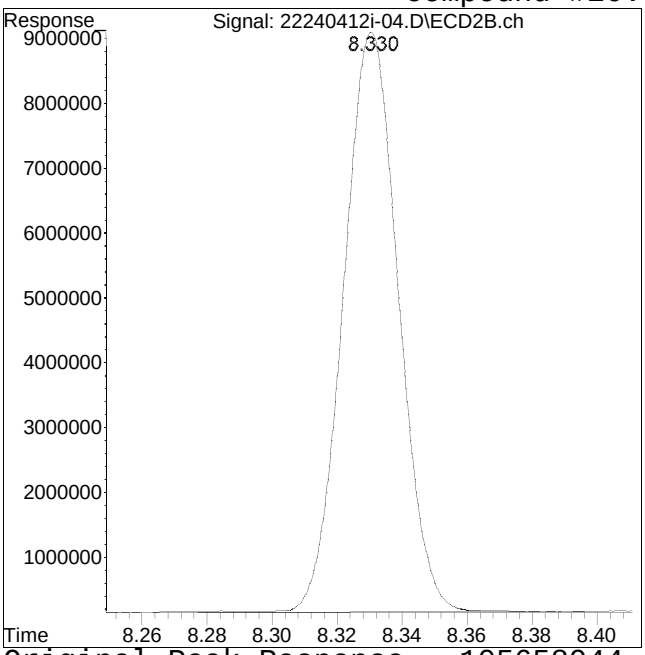


Manual Peak Response = 117052370 M4
M4 = Poor automated baseline construction.

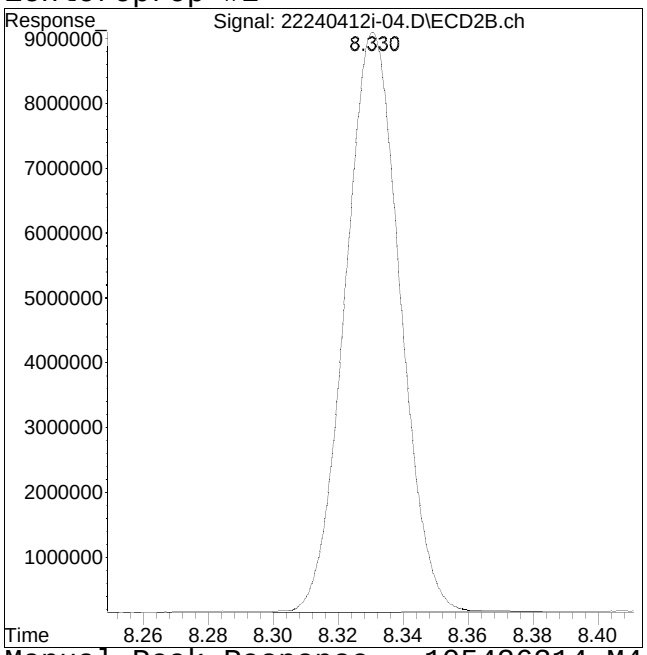
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #20: Dichloroprop #2



Original Peak Response = 105658944



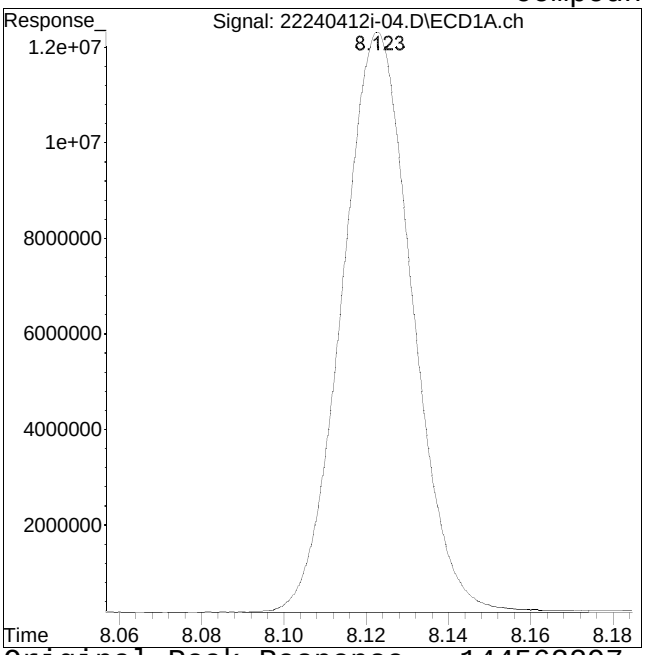
Manual Peak Response = 105426314 M4

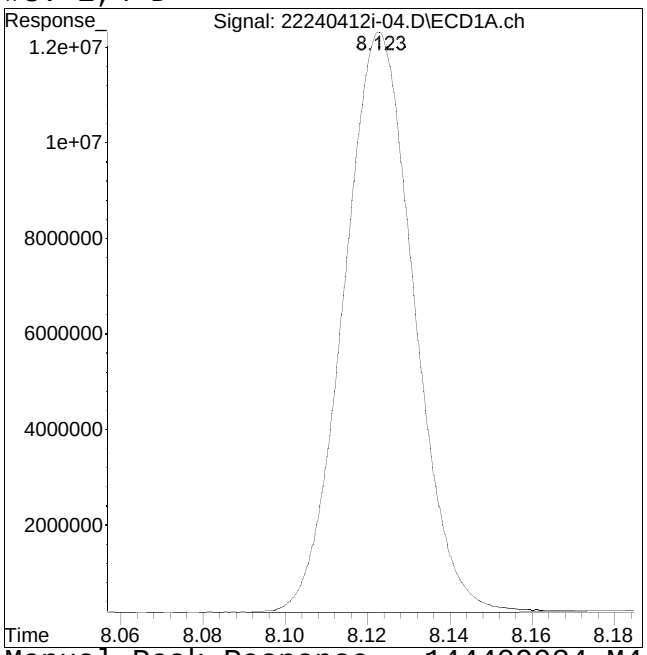
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #8: 2,4-D



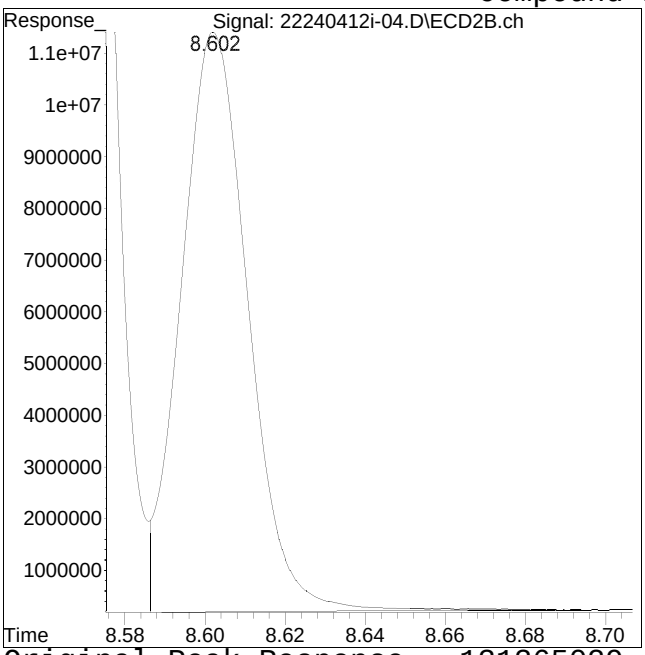


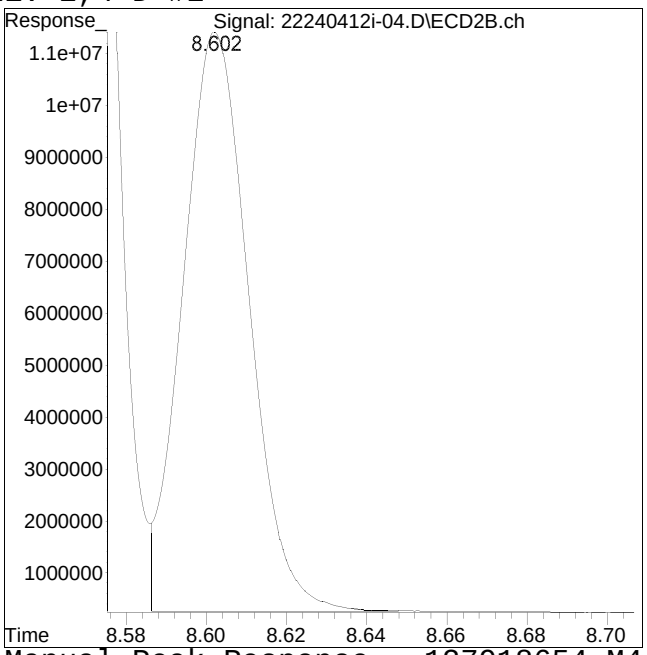
Original Peak Response = 144562297 Manual Peak Response = 144409924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #21: 2,4-D #2



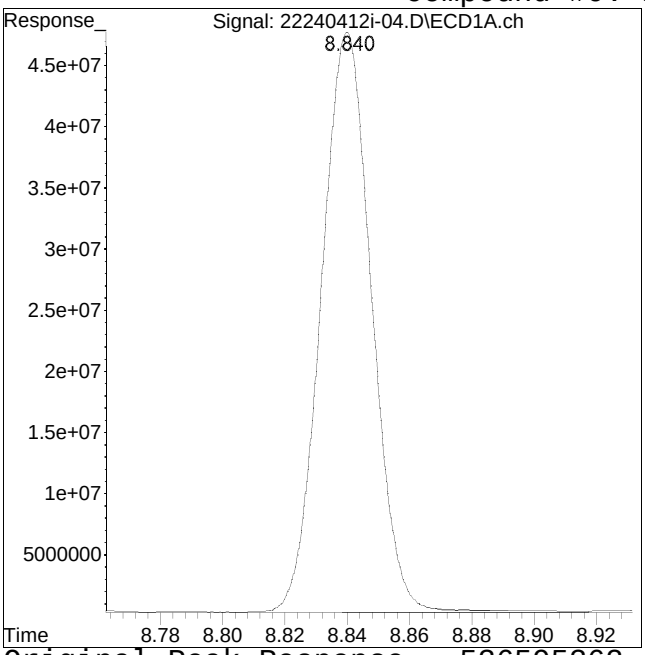


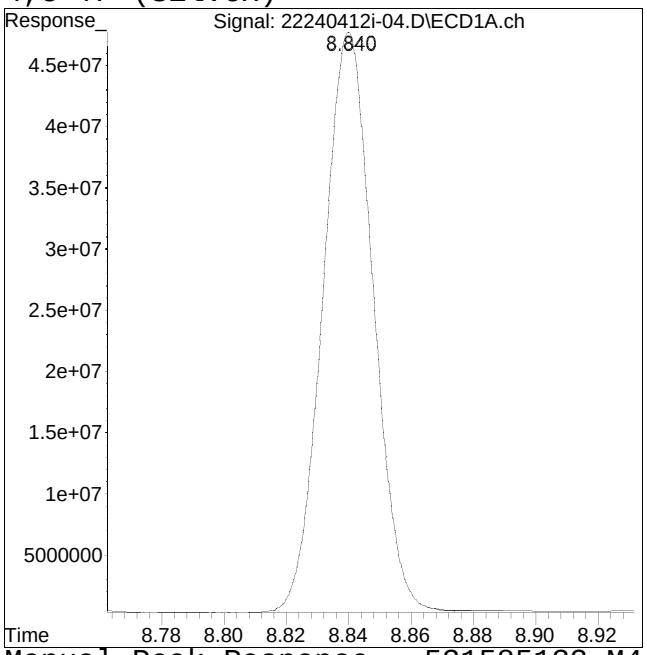
Original Peak Response = 131365029 Manual Peak Response = 127918654 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #9: 2,4,5-TP (Silvex)



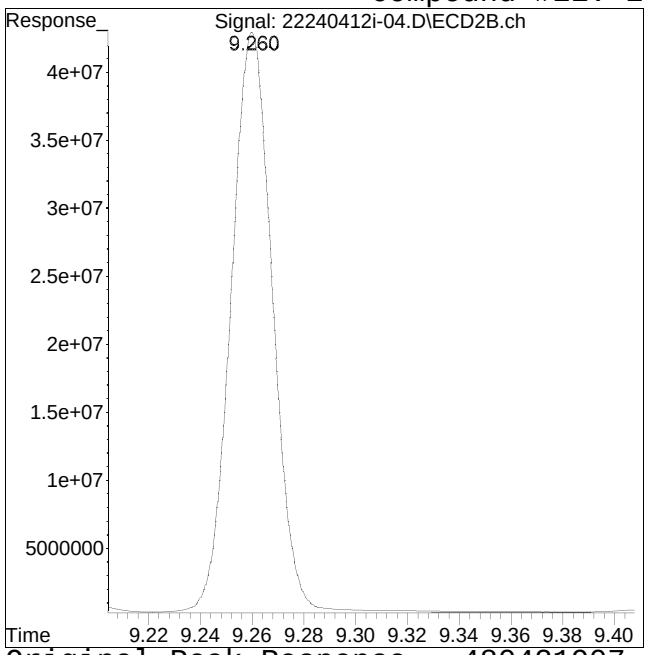


Original Peak Response = 536595362 Manual Peak Response = 531585133 M4
M4 = Poor automated baseline construction.

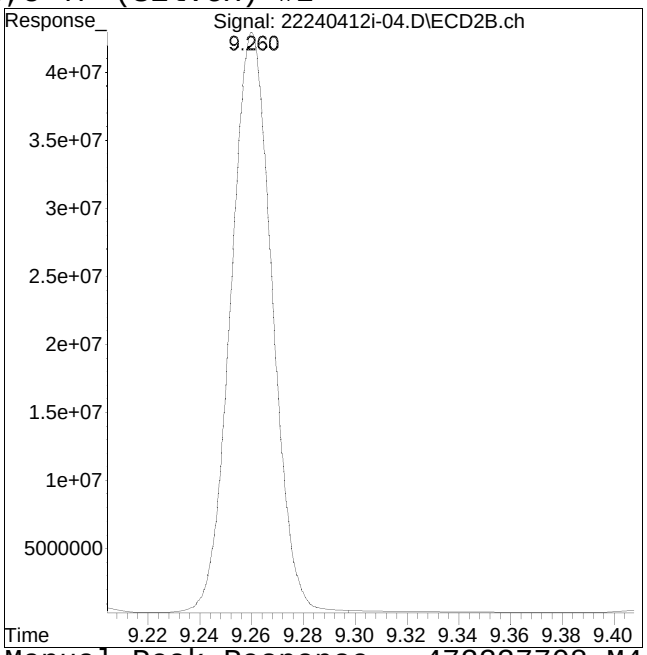
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 480421907



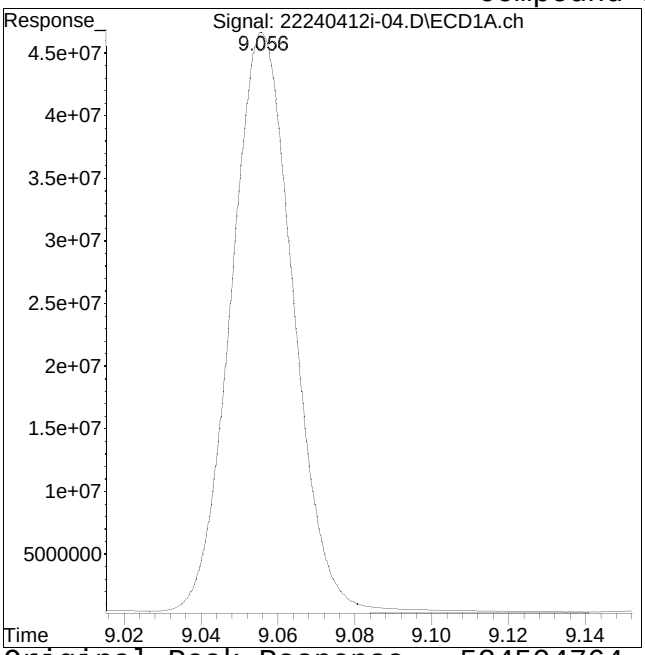
Manual Peak Response = 472337708 M4

M4 = Poor automated baseline construction.

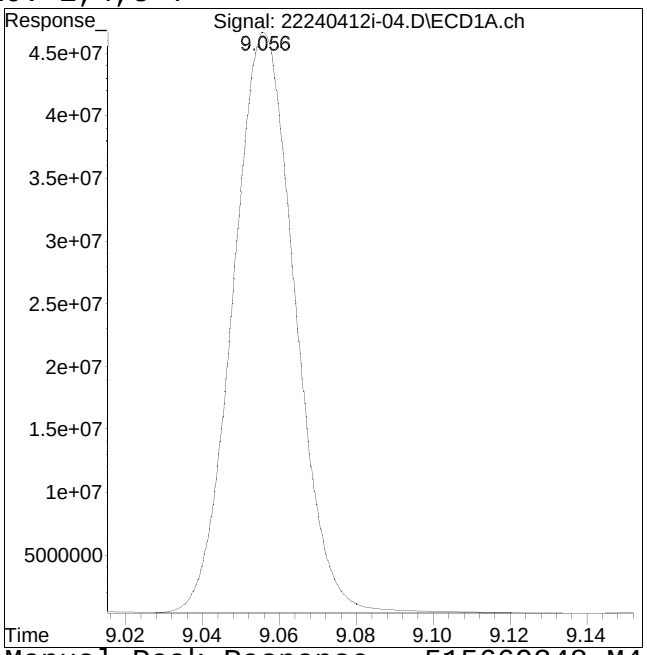
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #10: 2,4,5-T



Original Peak Response = 524504764



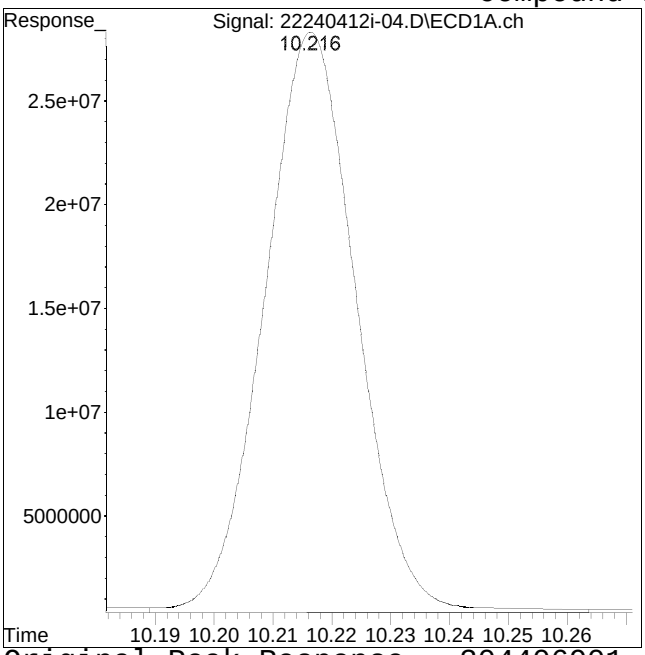
Manual Peak Response = 515669348 M4

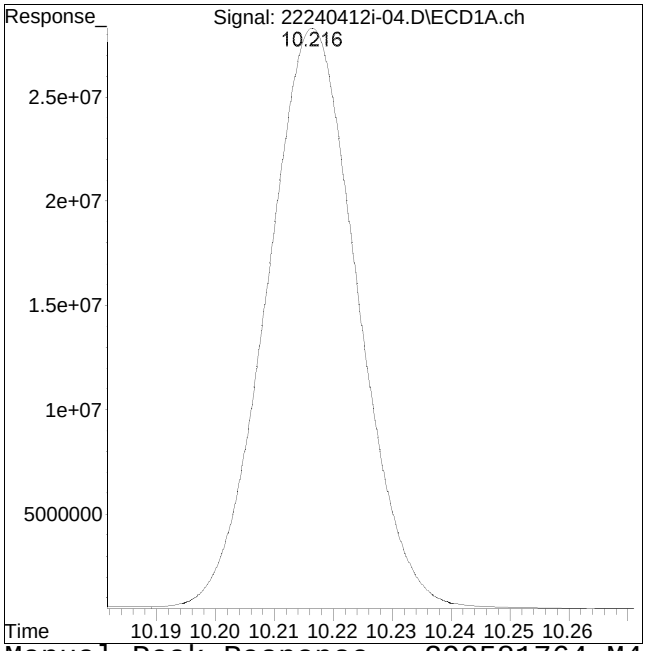
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #12: Dinoseb





Original Peak Response = 304406901 Manual Peak Response = 298581764 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	728.9E6	672.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	269.9E6	239.5E6	0.427M4	0.424M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	85.40%	84.80%
		Target Compounds						
2)	t	Dalapon	2.421	2.418	271.5E6	257.3E6	0.428M3	0.476M4
4)	t	Dicamba	7.213	7.677	765.6E6	720.1E6	0.420	0.439
5)	t	MCPP	7.415	7.788	73199826	88785274	45.887M4	44.375M4
6)	t	MCPA	7.560	8.013	121.5E6	140.2E6	40.968M4	41.021M4
7)	t	Dichloroprop	7.915	8.331	249.3E6	225.9E6	0.415M4	0.422M4
8)	t	2,4-D	8.123	8.602	315.8E6	282.1E6	0.427	0.434M4
9)	t	2,4,5-TP (Si	8.840	9.260	1166.2E6	1040.4E6	0.432M3	0.438M4
10)	t	2,4,5-T	9.056	9.546	1153.0E6	1012.2E6	0.441M4	0.442
11)	t	2,4-DB	9.463	9.907	173.1E6	171.9E6	0.424M4	0.447
12)	t	Dinoseb	10.216	10.130	670.6E6	603.6E6	0.443M4	0.449M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

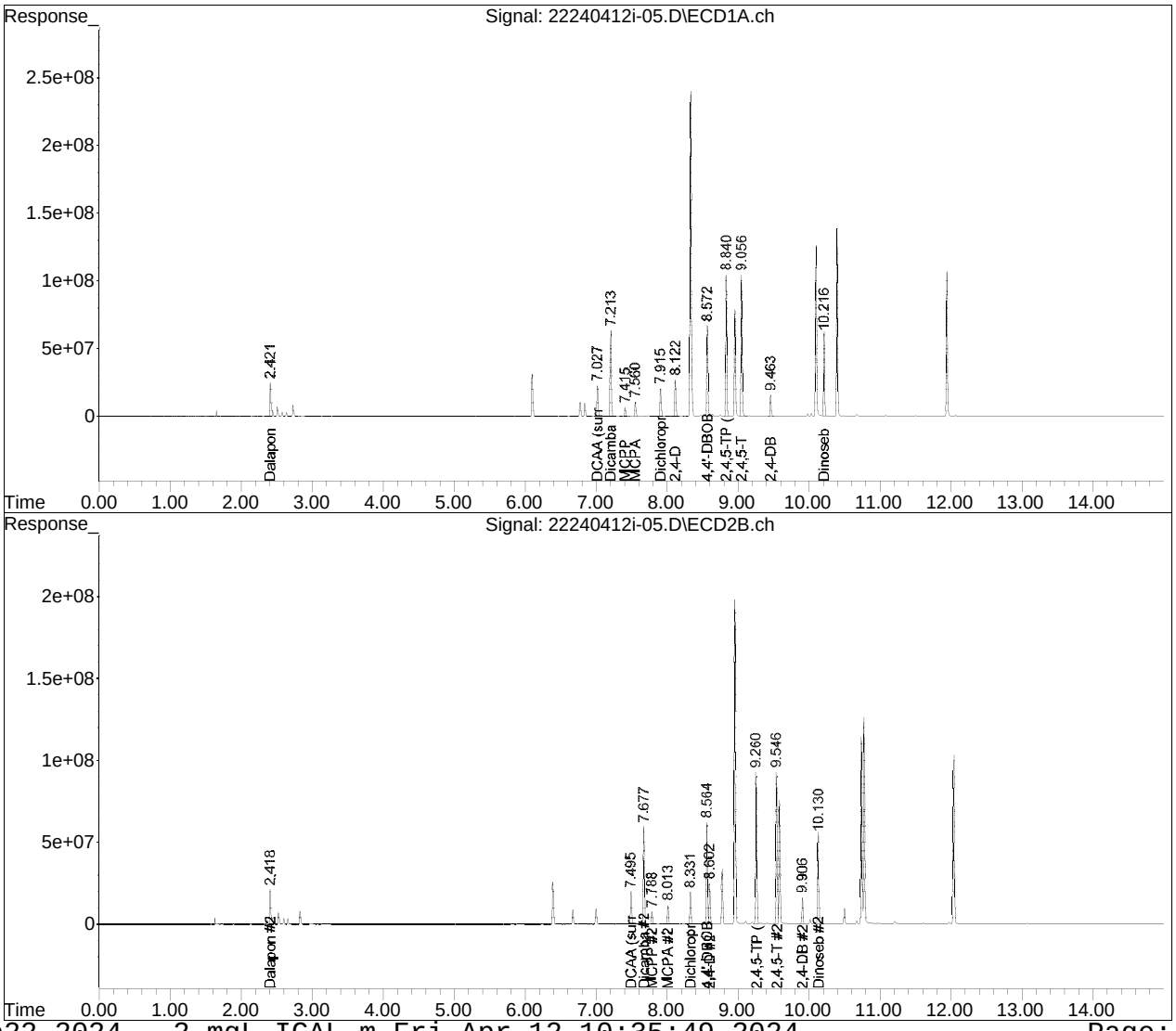
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

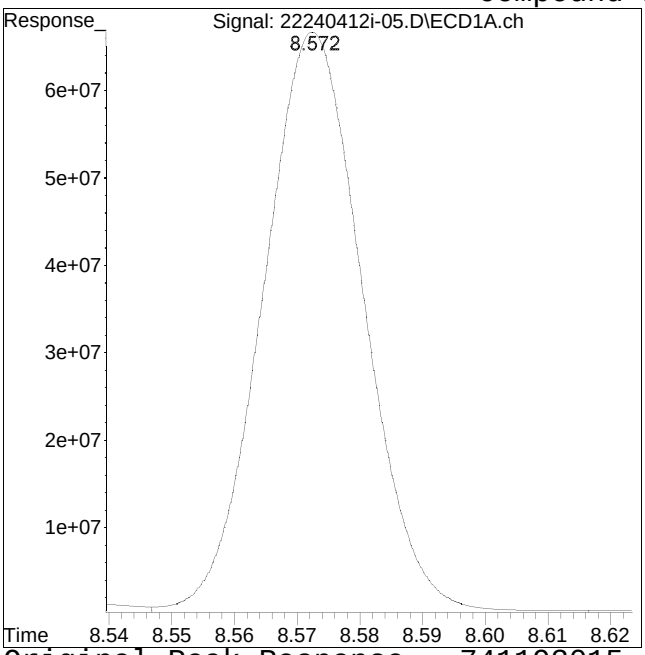
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

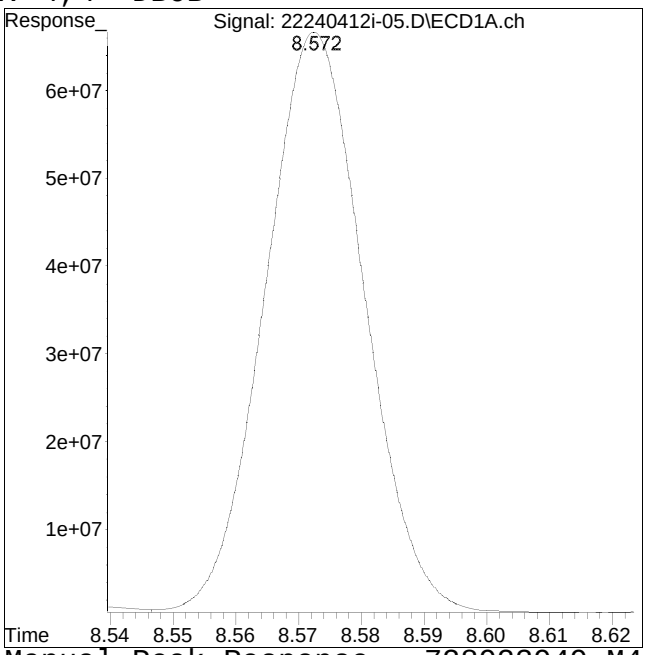


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #1: 4,4'-DBOB



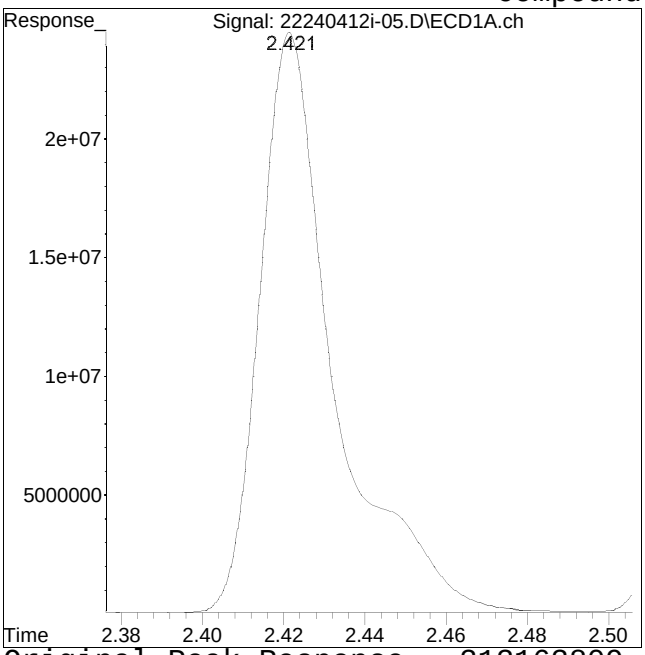


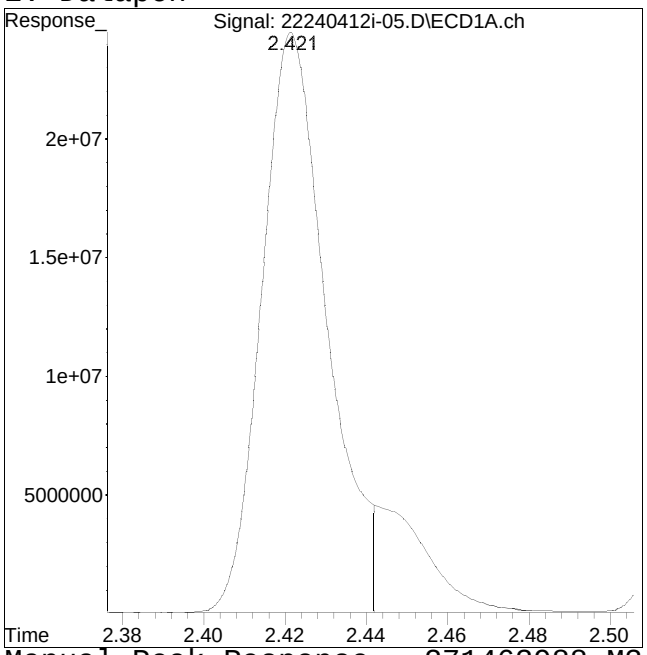
Original Peak Response = 741193015 Manual Peak Response = 728923949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #2: Dalapon



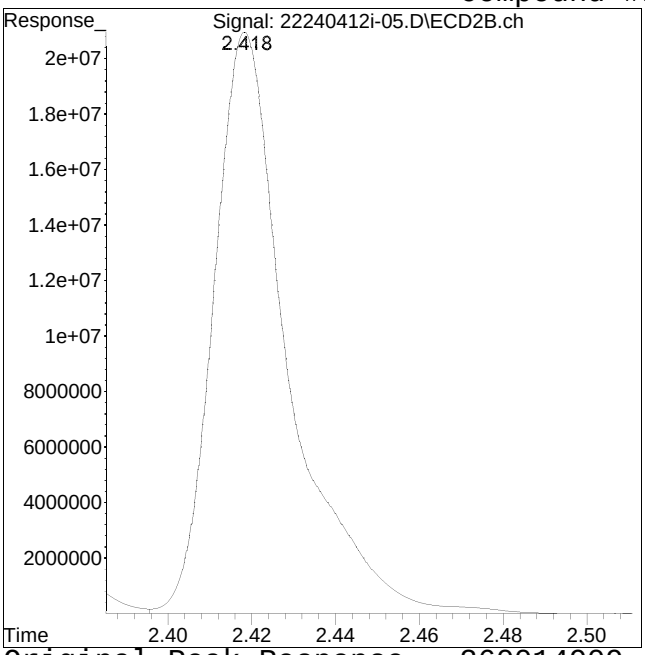


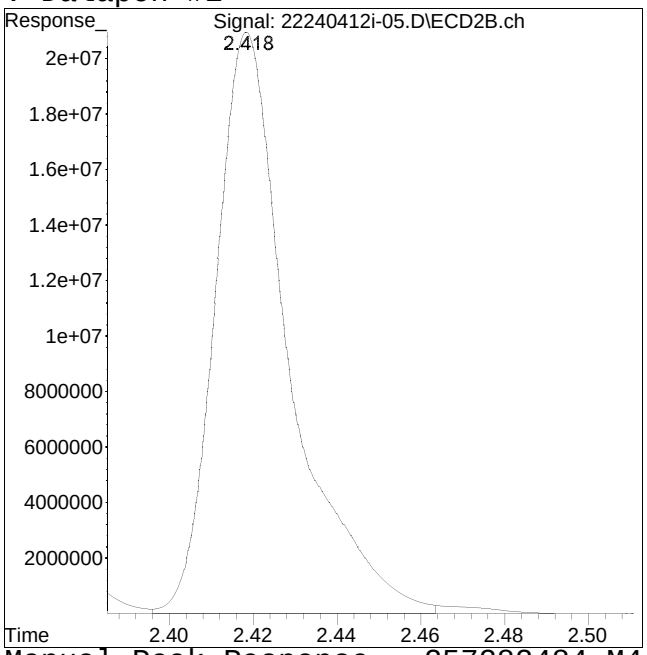
Original Peak Response = 313163809 Manual Peak Response = 271463988 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #15: Dalapon #2



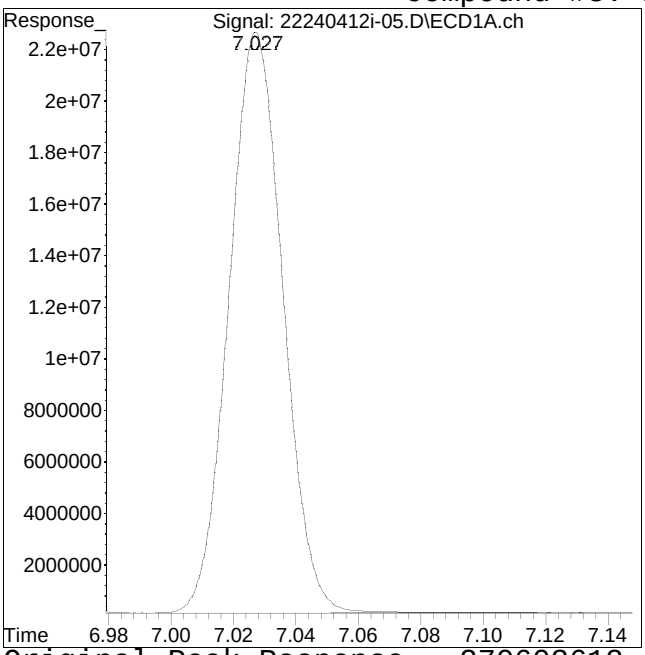


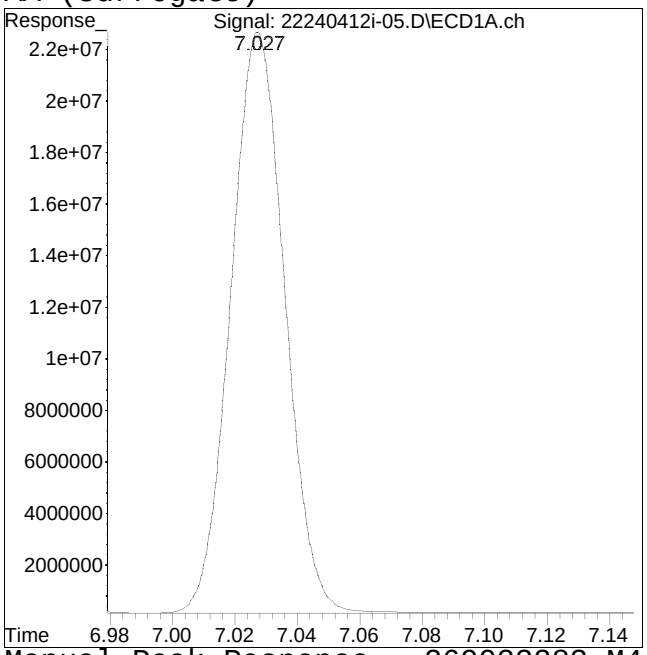
Original Peak Response = 260014909 Manual Peak Response = 257282484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #3: DCAA (surrogate)



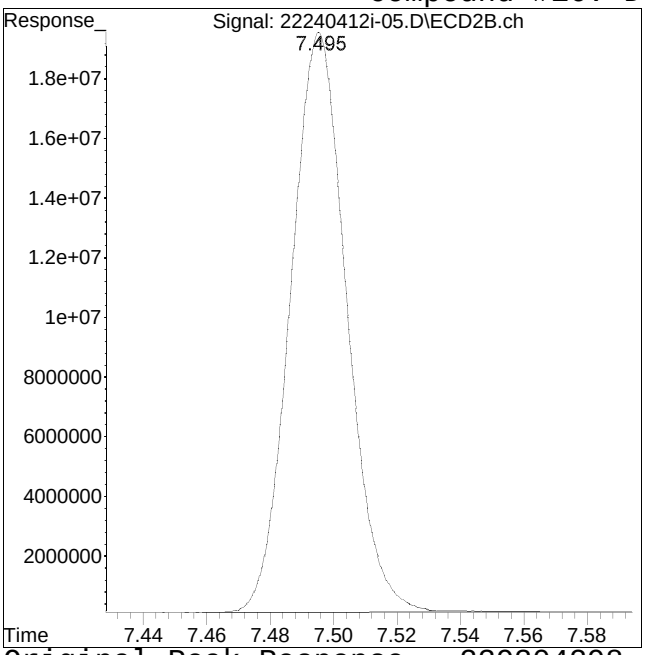


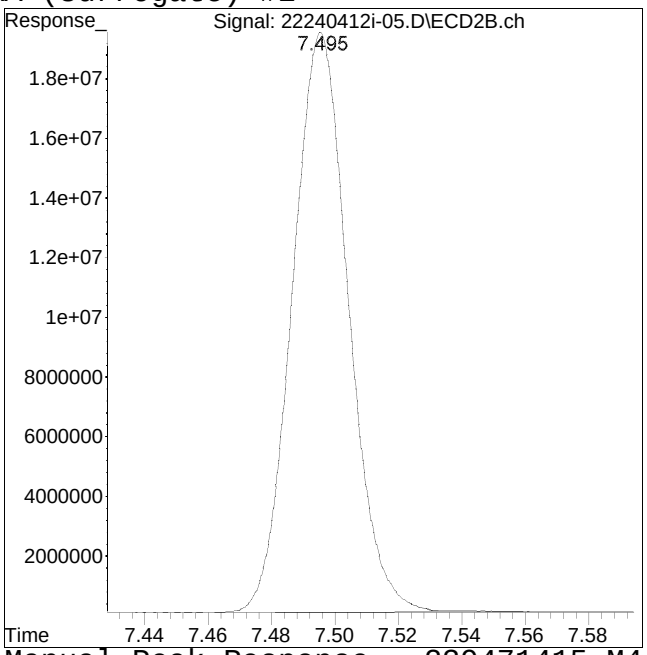
Original Peak Response = 270603612 Manual Peak Response = 269923283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #16: DCAA (surrogate) #2



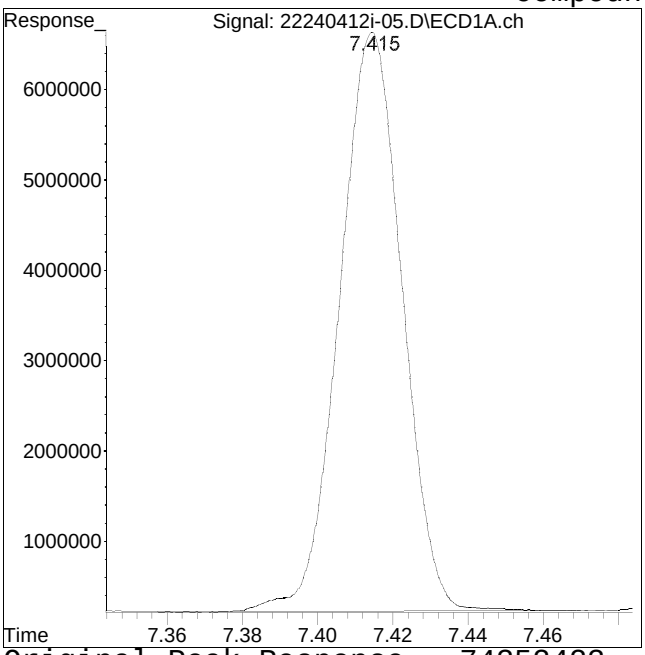


Original Peak Response = 239304298 Manual Peak Response = 239471415 M4
M4 = Poor automated baseline construction.

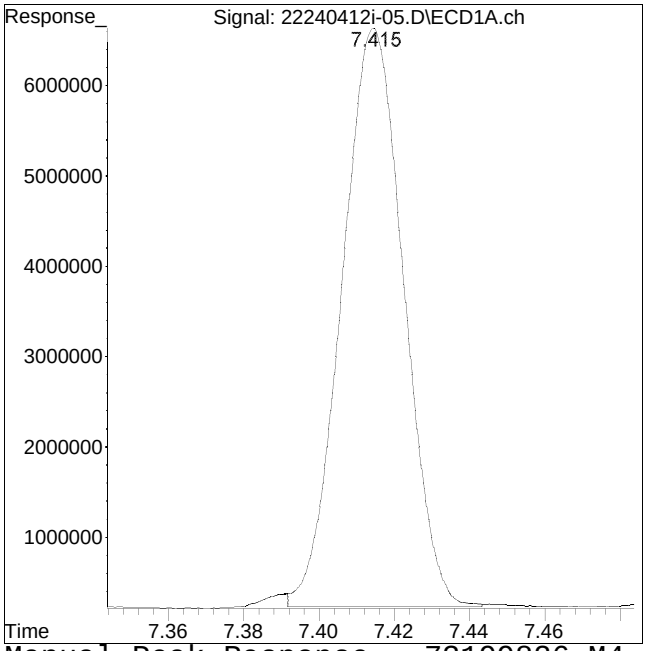
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #5: MCPP



Original Peak Response = 74352423



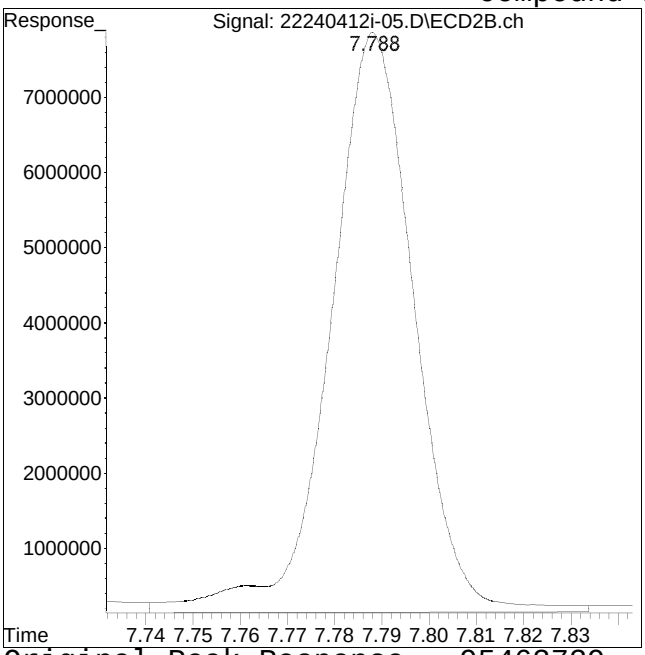
Manual Peak Response = 73199826 M4

M4 = Poor automated baseline construction.

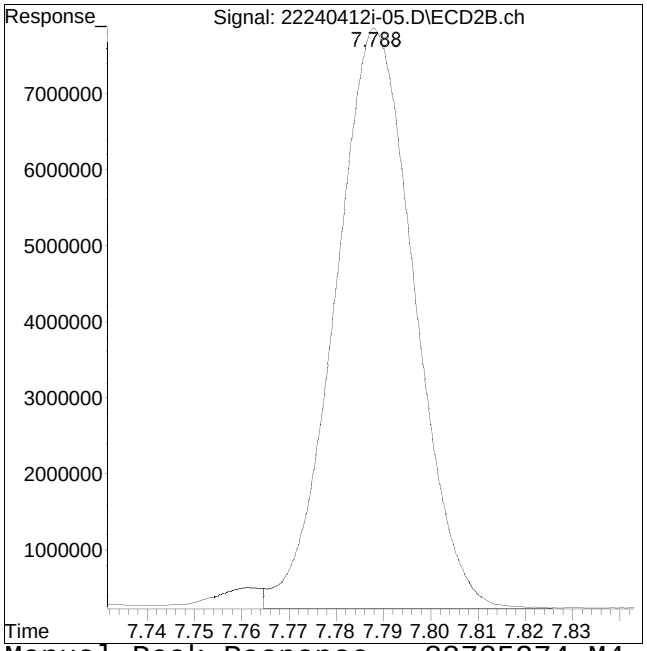
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #18: MCPP #2



Original Peak Response = 95463739



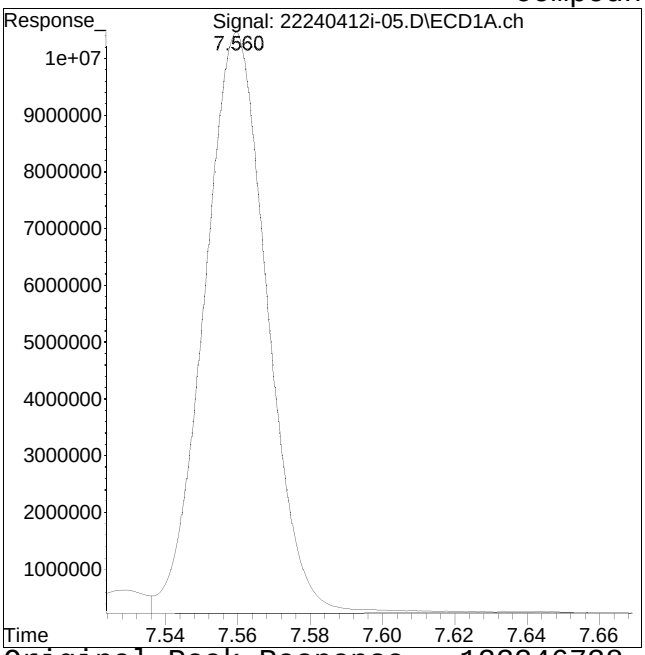
Manual Peak Response = 88785274 M4

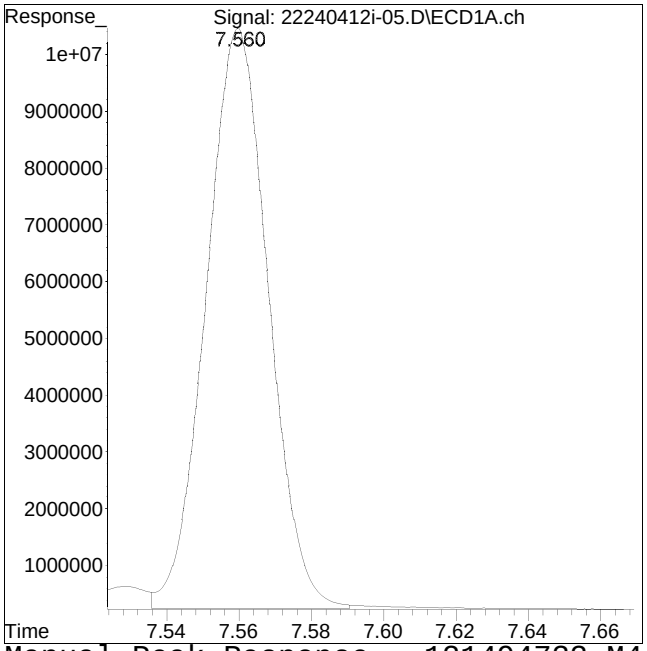
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #6: MCPA



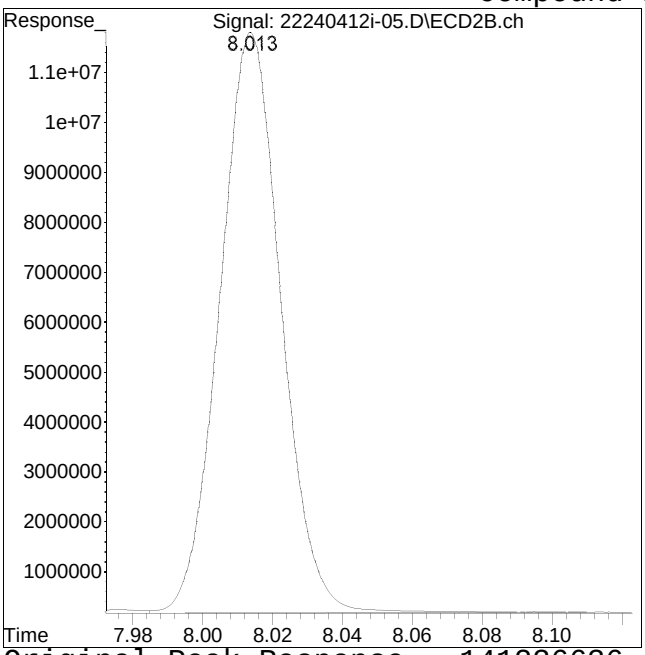


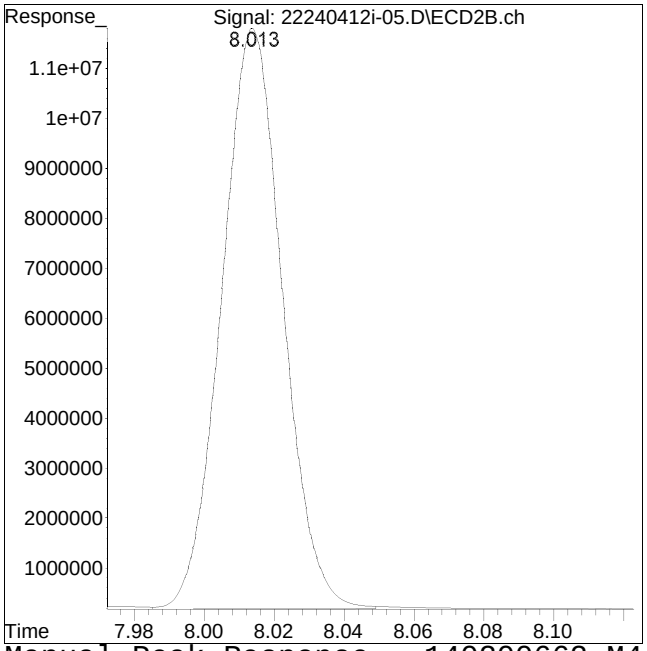
Original Peak Response = 123346738 Manual Peak Response = 121494733 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #19: MCPA #2



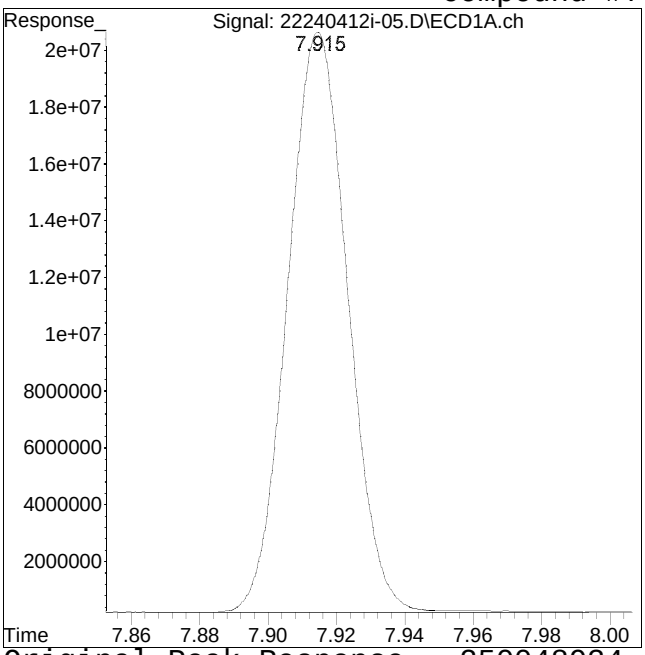


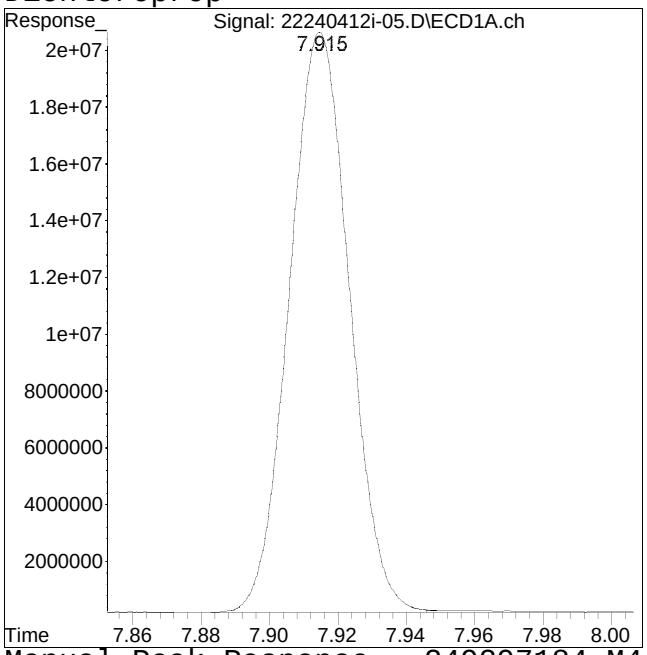
Original Peak Response = 141236636 Manual Peak Response = 140200662 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #7: Dichloroprop



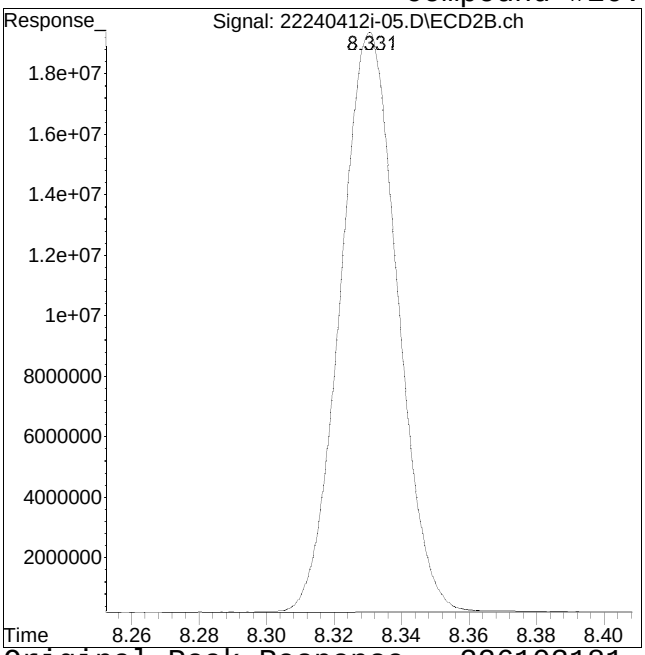


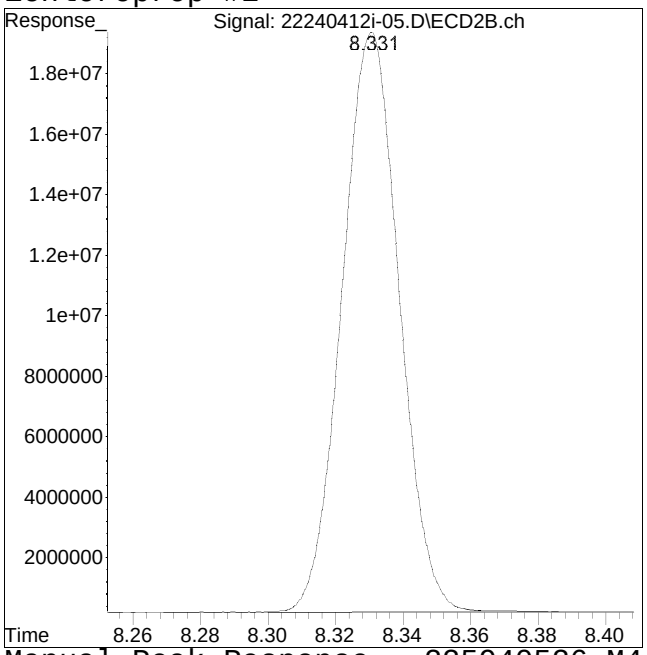
Original Peak Response = 250048934 Manual Peak Response = 249297184 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #20: Dichloroprop #2



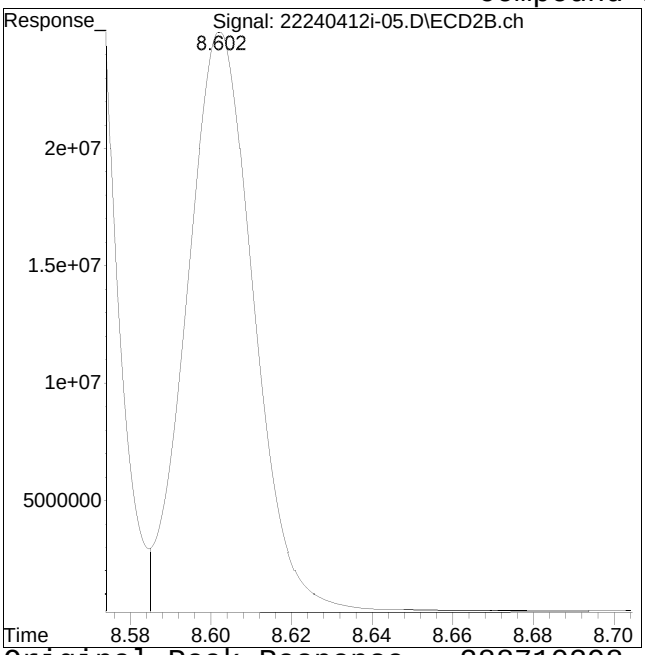


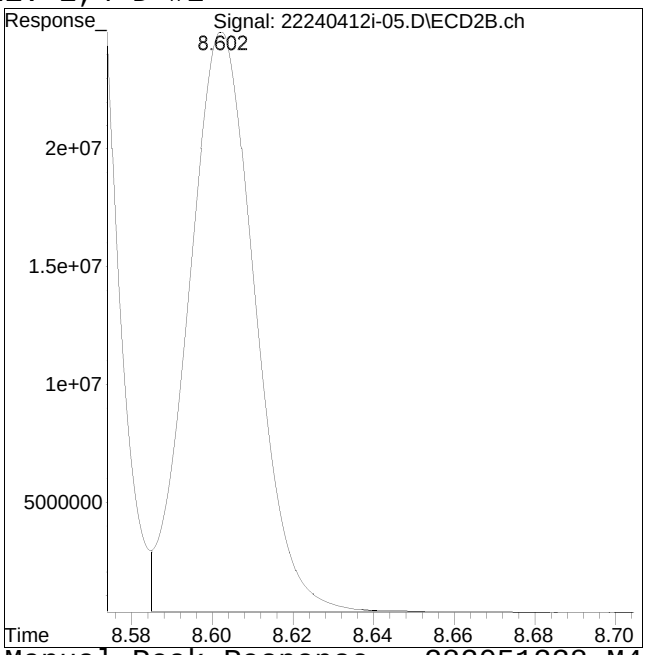
Original Peak Response = 226103181 Manual Peak Response = 225940526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #21: 2,4-D #2



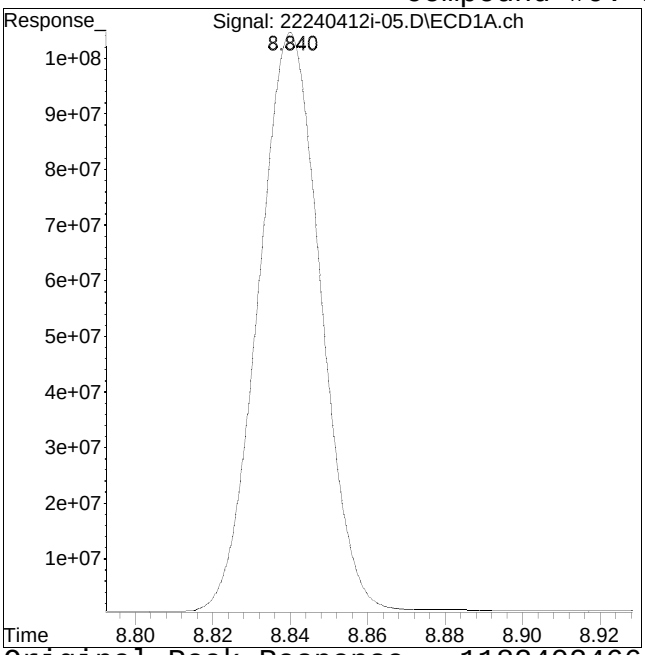


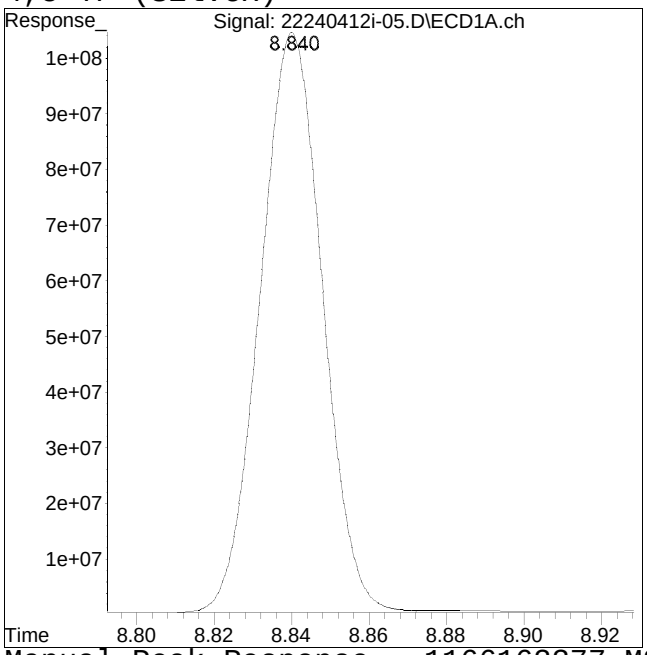
Original Peak Response = 288710398 Manual Peak Response = 282051338 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #9: 2,4,5-TP (Silvex)



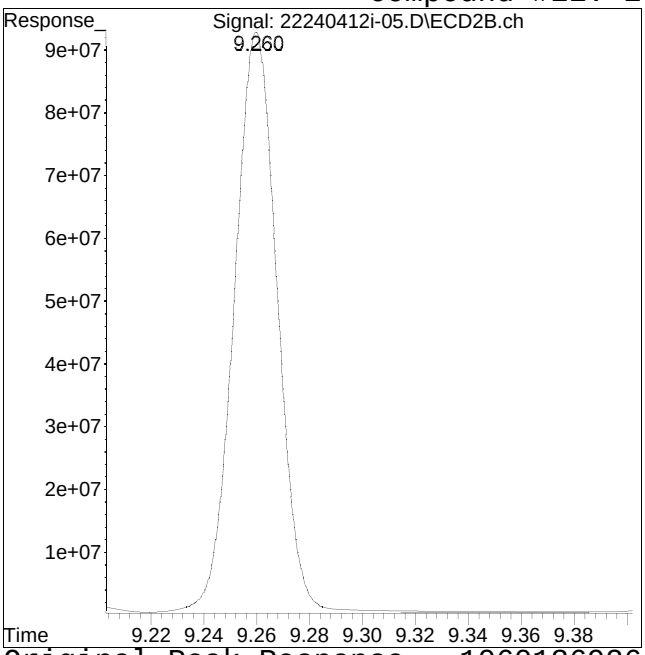


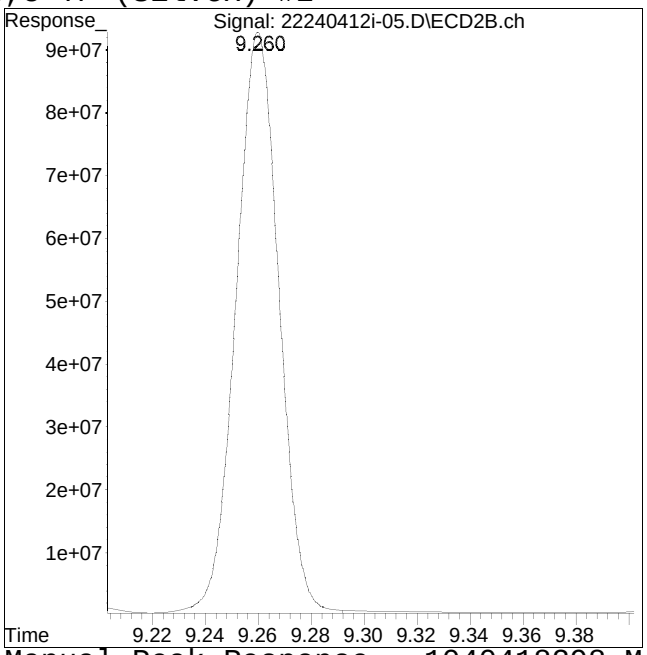
Original Peak Response = 1182402466 Manual Peak Response = 1166163377 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #22: 2,4,5-TP (Silvex) #2



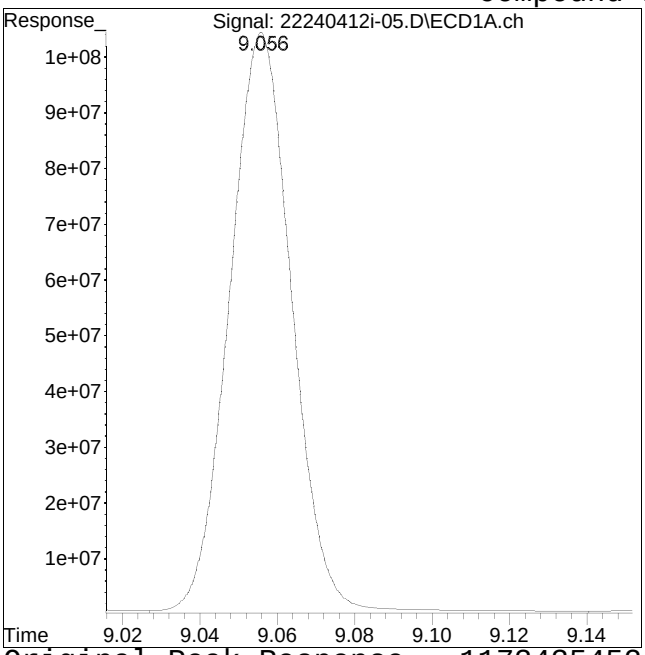


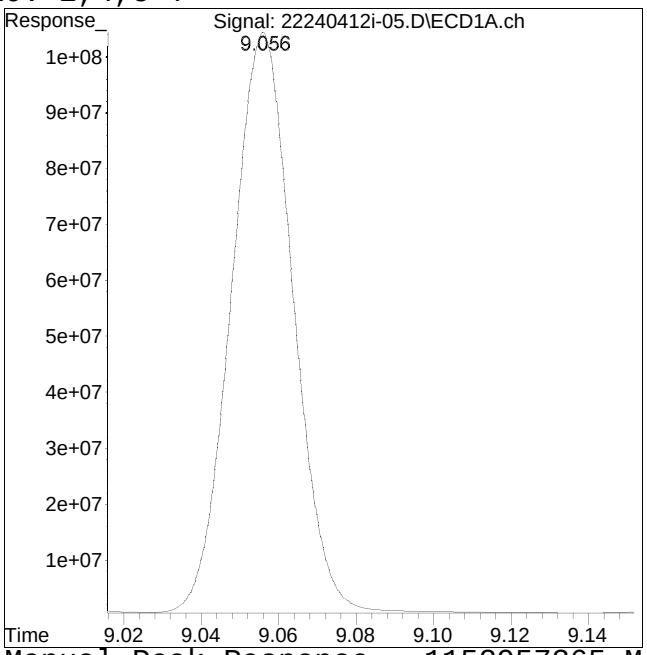
Original Peak Response = 1060136926 Manual Peak Response = 1040418298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #10: 2,4,5-T



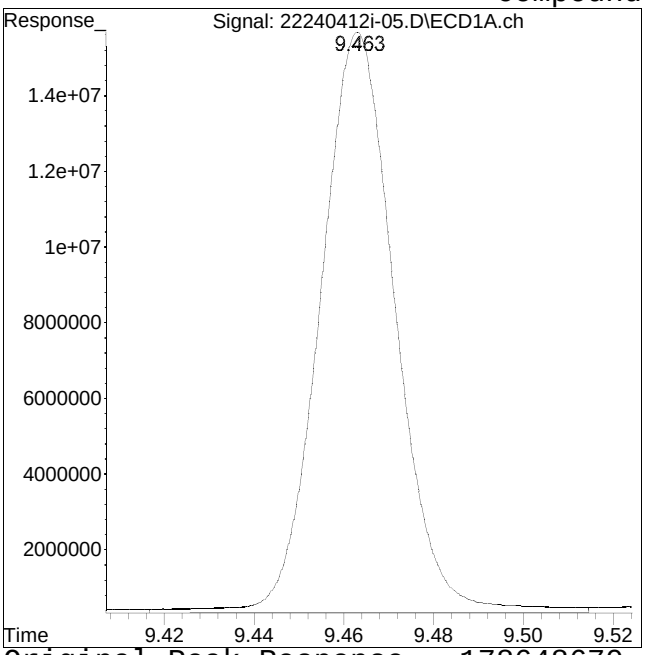


Original Peak Response = 1173435452 Manual Peak Response = 1152957365 M4
M4 = Poor automated baseline construction.

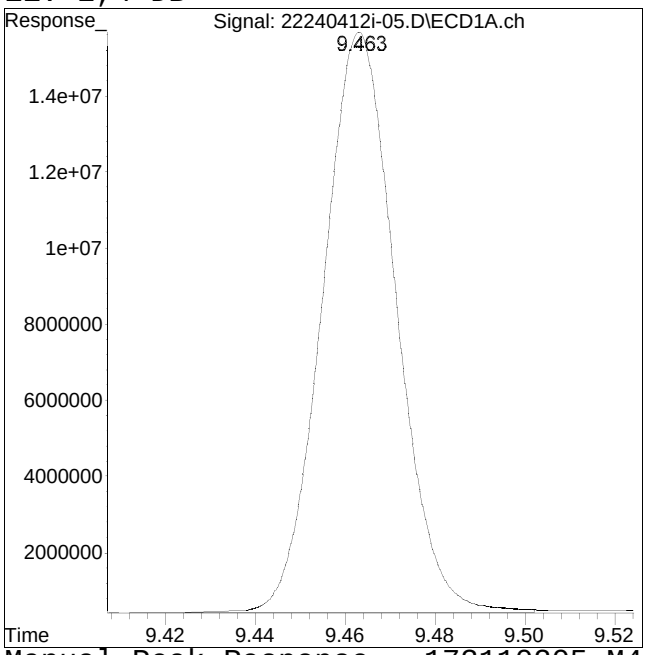
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #11: 2,4-DB



Original Peak Response = 178648670

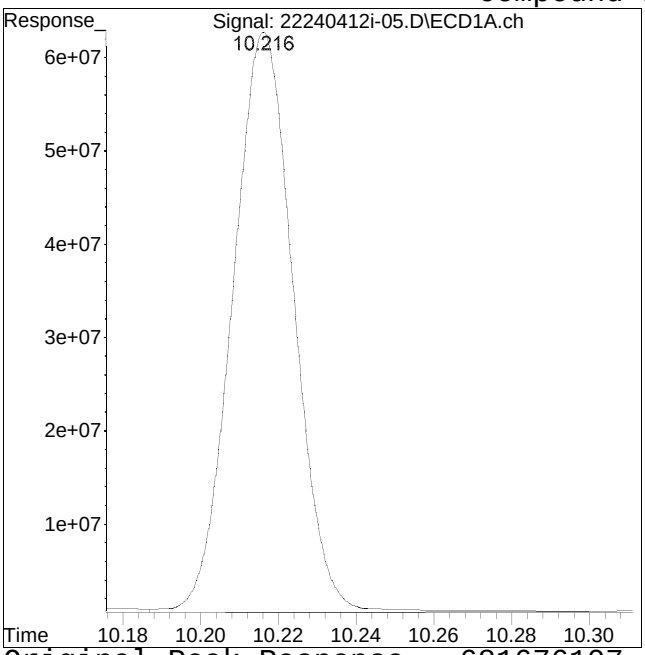


Manual Peak Response = 173110205 M4
M4 = Poor automated baseline construction.

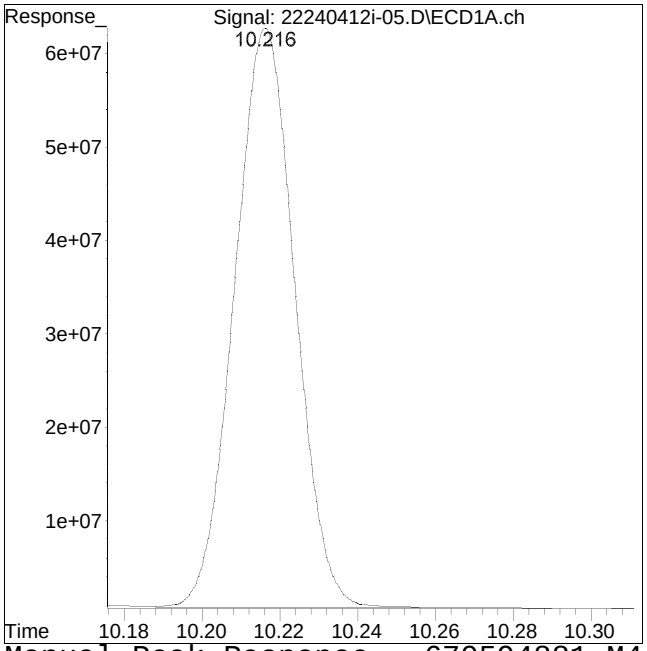
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #12: Dinoseb



Original Peak Response = 681676107

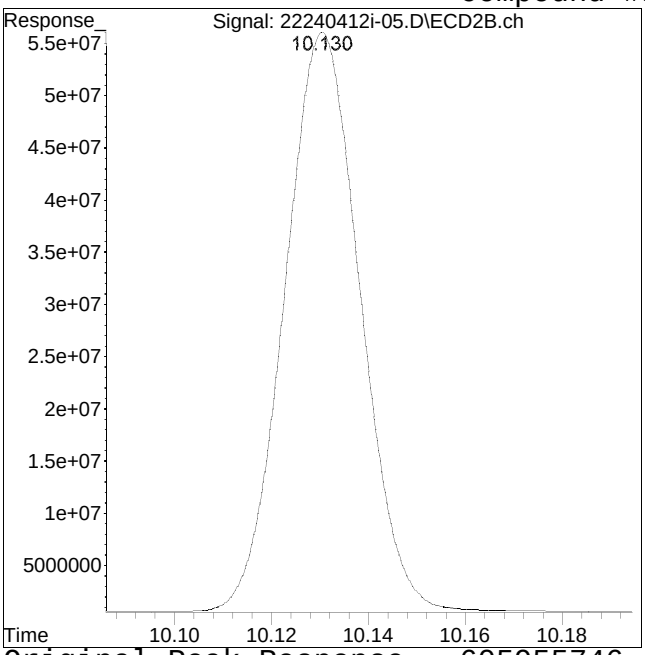


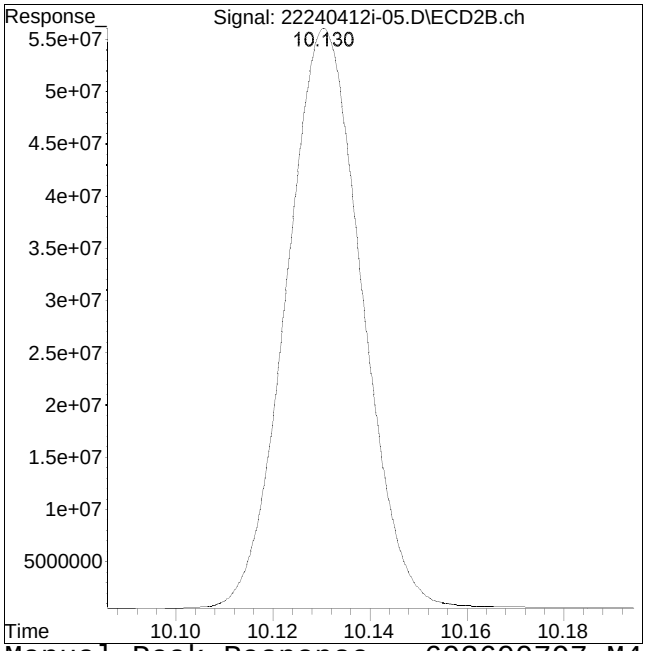
Manual Peak Response = 670594881 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #25: Dinoseb #2





Original Peak Response = 605955746 Manual Peak Response = 603600797 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	717.1E6	655.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.494	487.7E6	437.6E6	0.822M4	0.836M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	164.40%#	167.20%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	537.5E6	451.2E6	0.887	0.837M4
4)	t	Dicamba	7.212	7.676	1383.9E6	1339.4E6	0.815M4	0.866M4
5)	t	MCPP	7.414	7.788	143.4E6	169.9E6	92.464M4	89.596M3
6)	t	MCPA	7.560	8.014	224.2E6	257.1E6	81.702M4	82.003M4
7)	t	Dichloroprop	7.913	8.329	442.2E6	413.6E6	0.795M4	0.835M4
8)	t	2,4-D	8.121	8.601	567.4E6	527.6E6	0.817M4	0.866M4
9)	t	2,4,5-TP (Si	8.839	9.259	2103.9E6	1931.5E6	0.830M3	0.868M4
10)	t	2,4,5-T	9.055	9.545	2091.7E6	1898.4E6	0.845M4	0.881M4
11)	t	2,4-DB	9.462	9.906	312.1E6	320.4E6	0.825M4	0.885M4
12)	t	Dinoseb	10.216	10.130	1217.6E6	1131.0E6	0.846M4	0.887M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

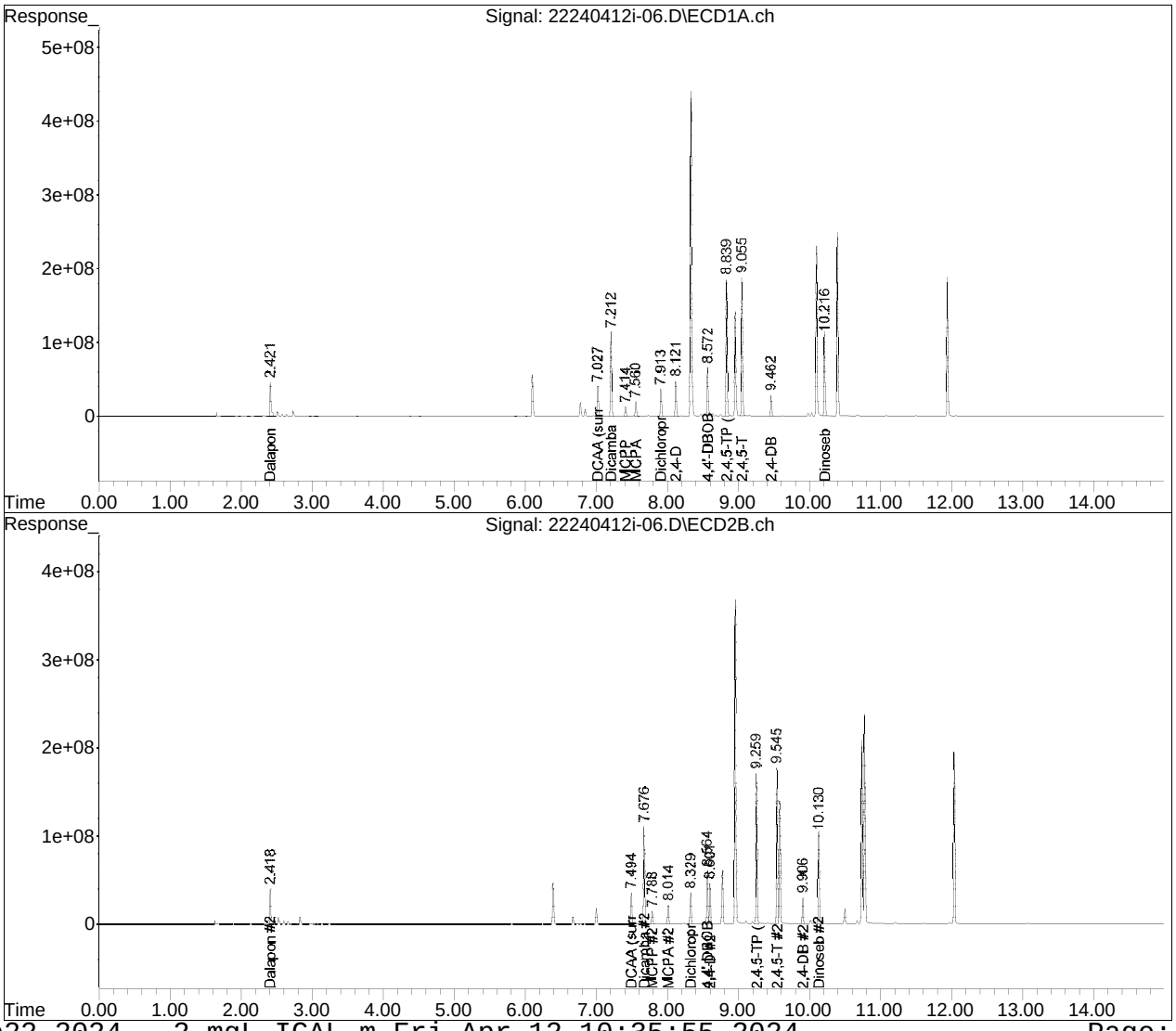
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

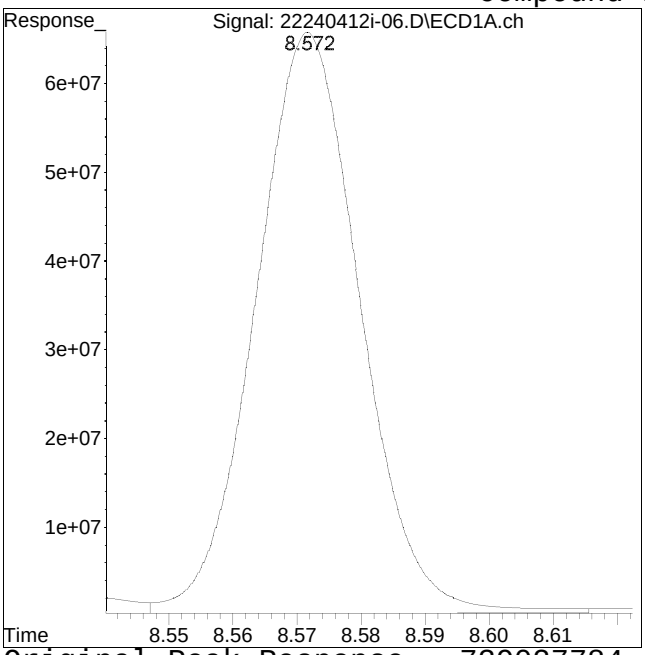
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

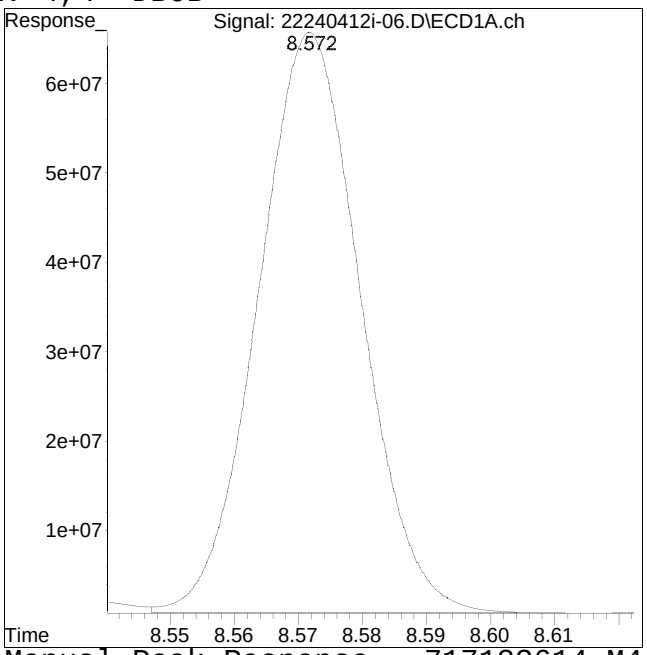


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #1: 4,4'-DBOB



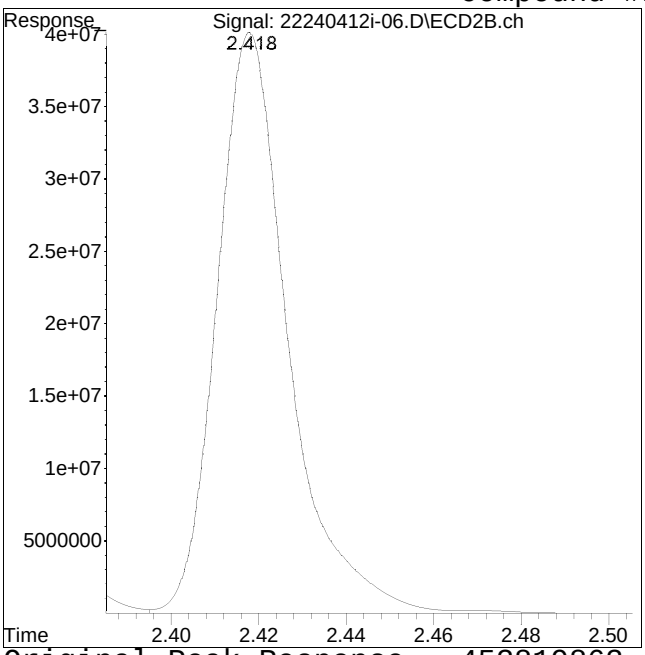


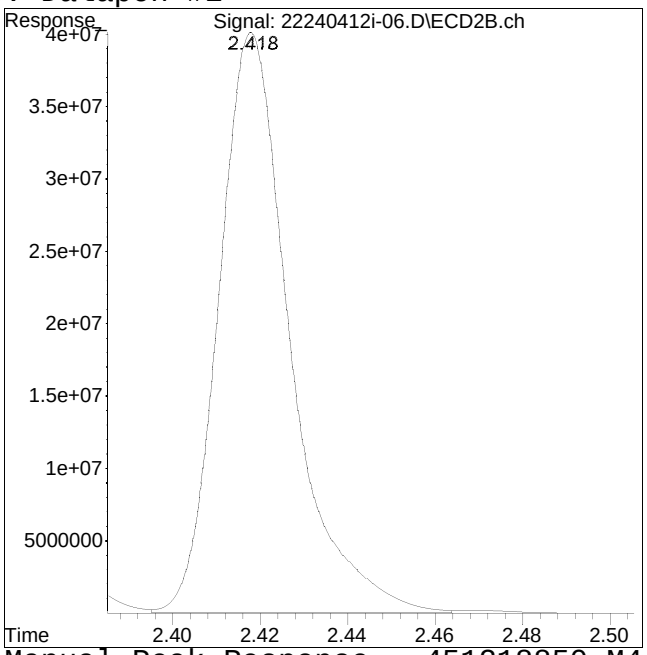
Original Peak Response = 739027784 Manual Peak Response = 717123614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #15: Dalapon #2



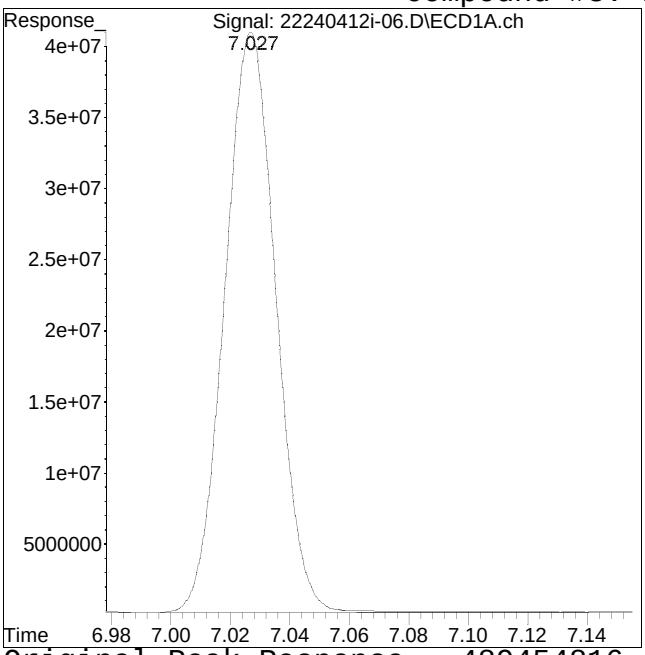


Original Peak Response = 453819863 Manual Peak Response = 451218850 M4
M4 = Poor automated baseline construction.

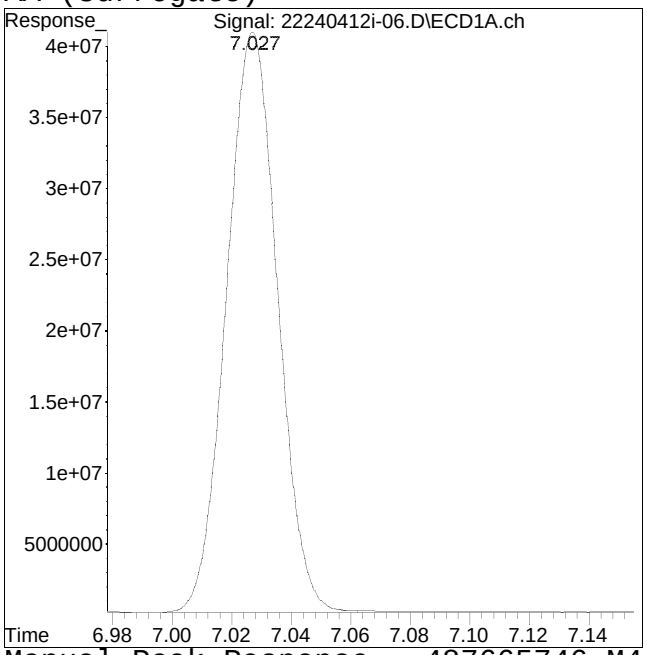
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #3: DCAA (surrogate)



Original Peak Response = 489454816



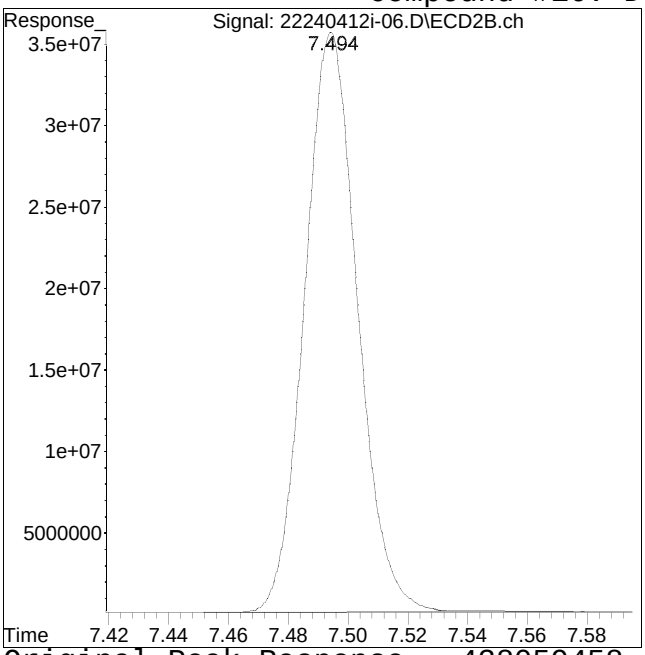
Manual Peak Response = 487665746 M4

M4 = Poor automated baseline construction.

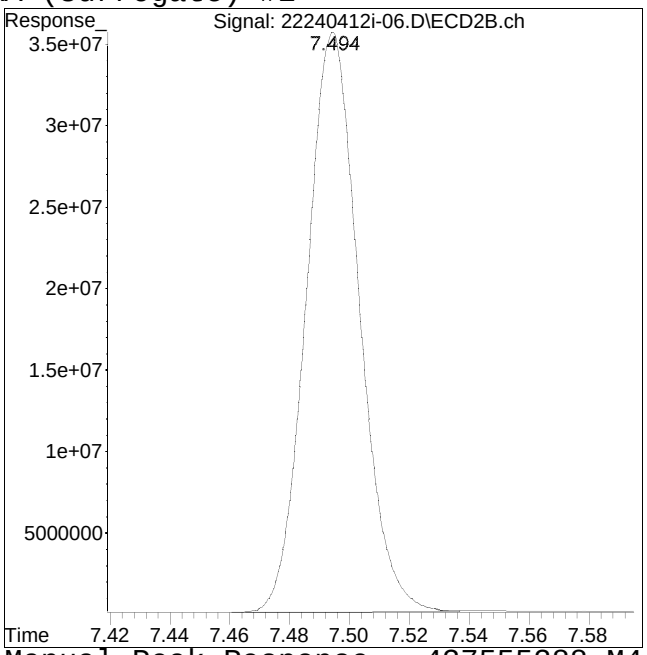
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 438059458



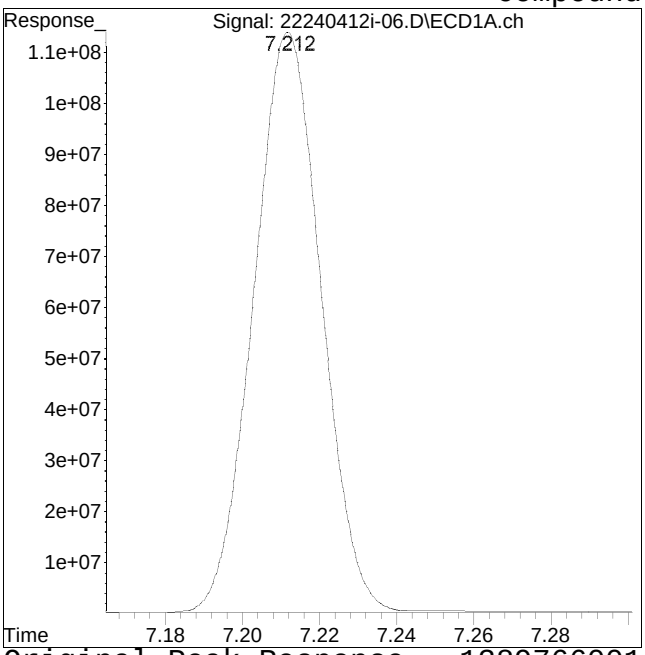
Manual Peak Response = 437555388 M4

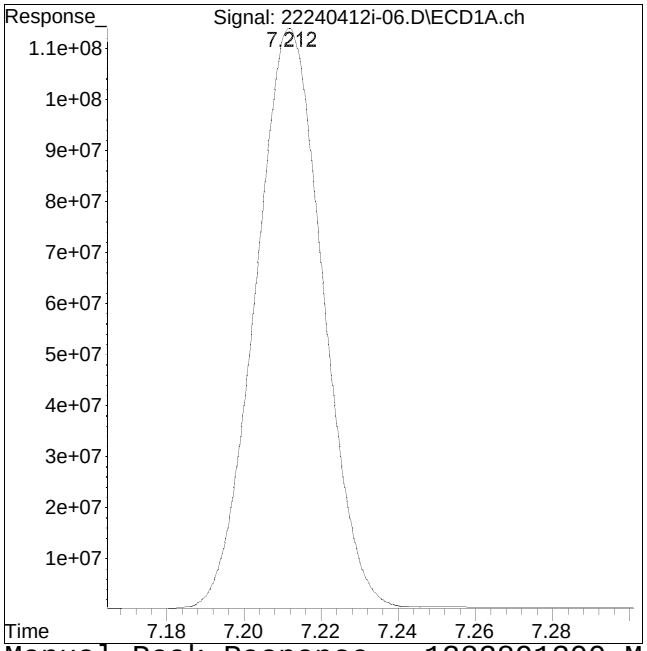
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #4: Dicamba



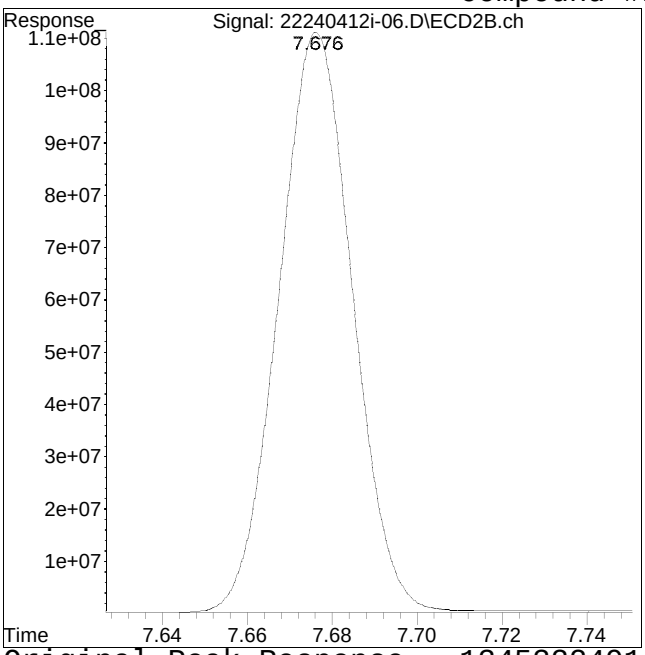


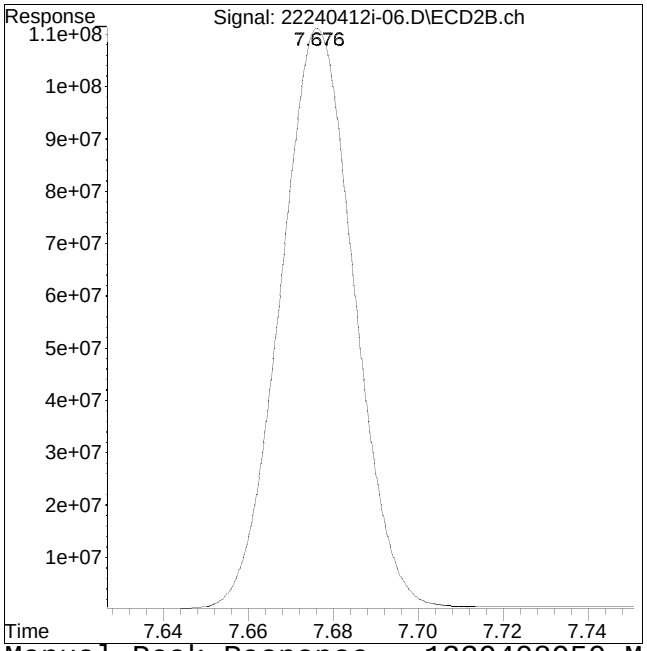
Original Peak Response = 1389766001 Manual Peak Response = 1383891300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #17: Dicamba #2



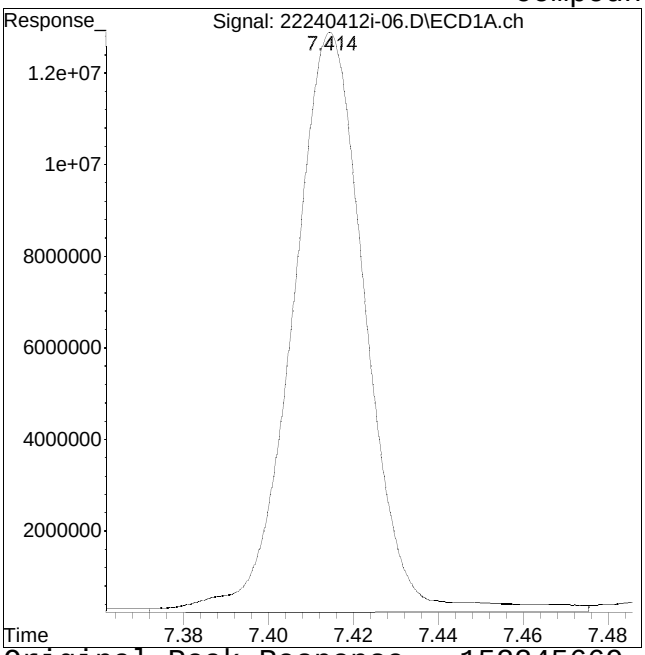


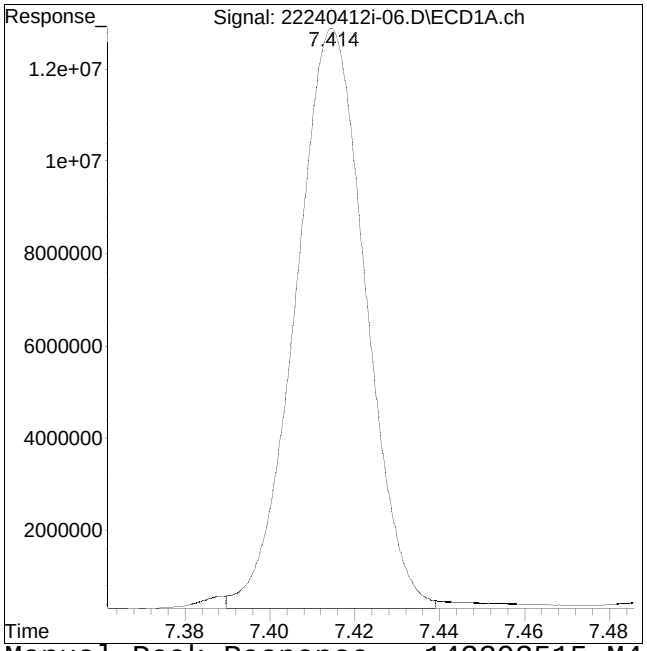
Original Peak Response = 1345322491 Manual Peak Response = 1339408950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #5: MCPP



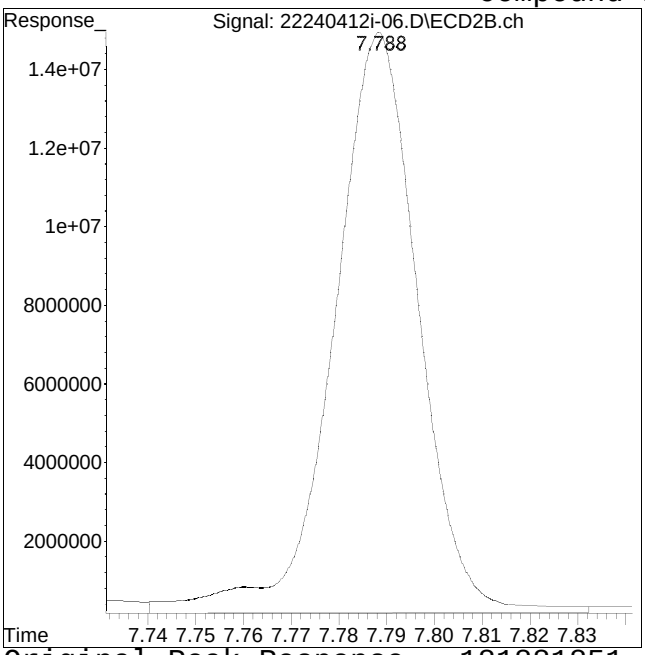


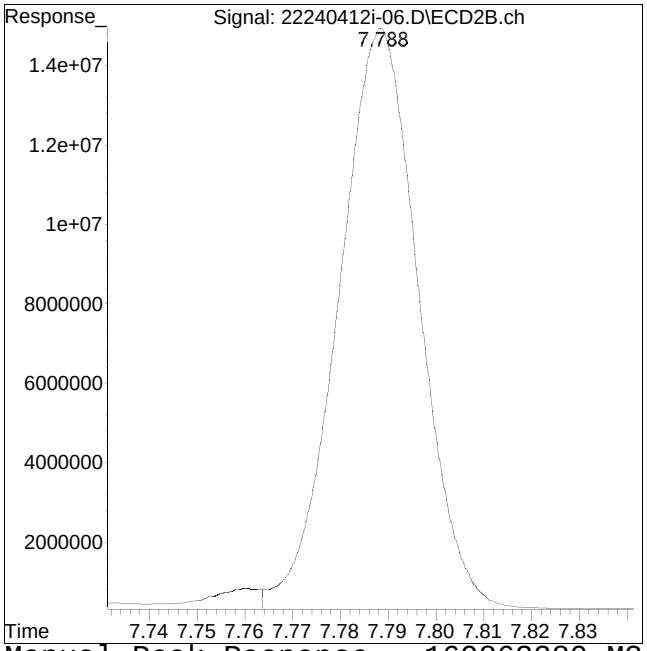
Original Peak Response = 152245669 Manual Peak Response = 143393515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #18: MCPP #2



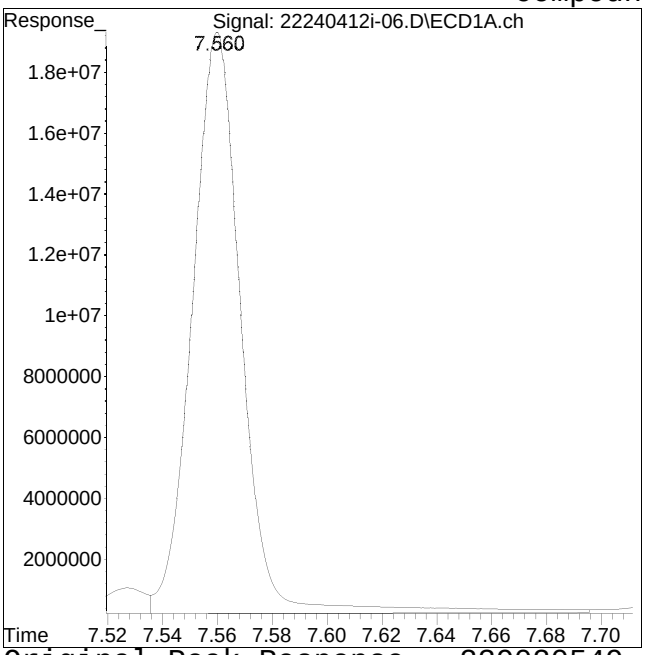


Original Peak Response = 181881851 Manual Peak Response = 169863280 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

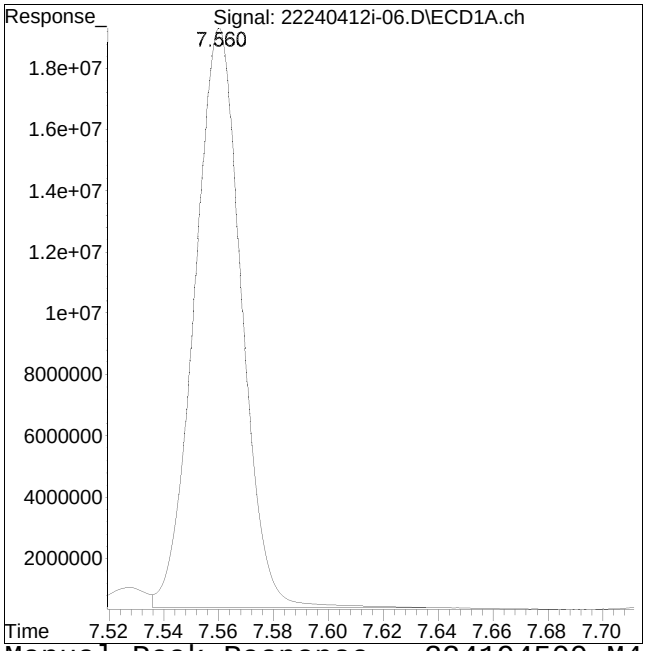
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #6: MCPA



Original Peak Response = 239020549



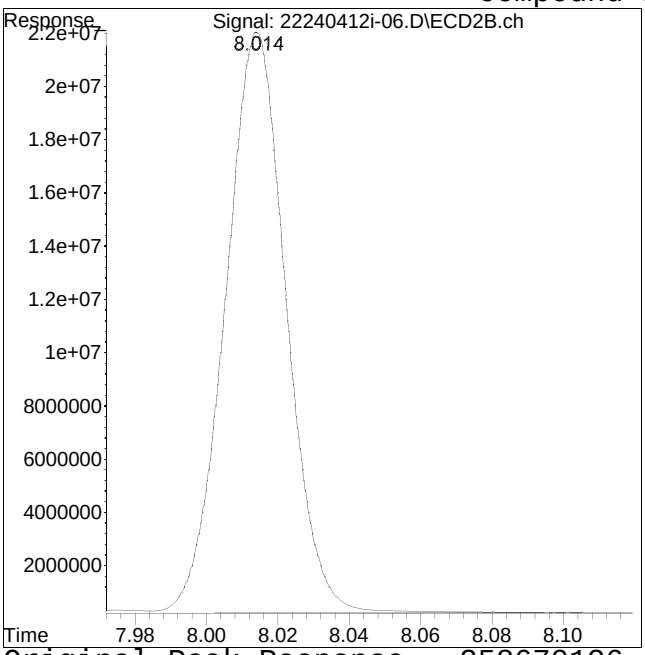
Manual Peak Response = 224194500 M4

M4 = Poor automated baseline construction.

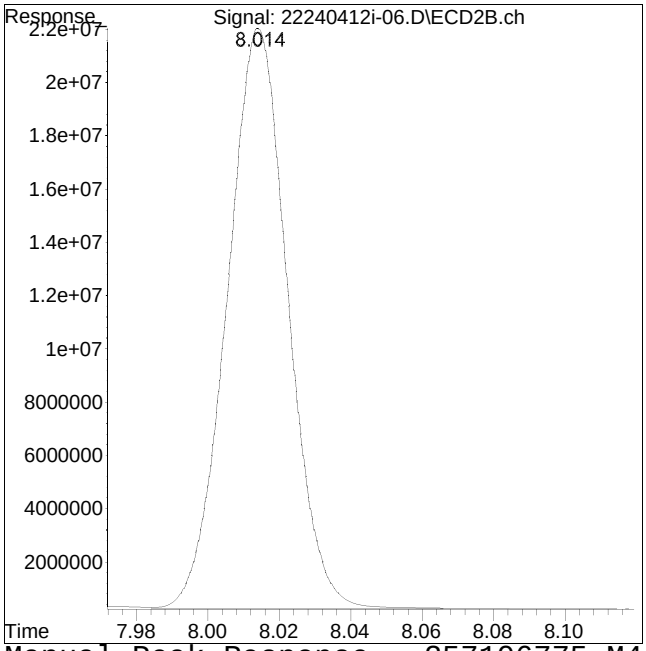
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #19: MCPA #2



Original Peak Response = 258670126

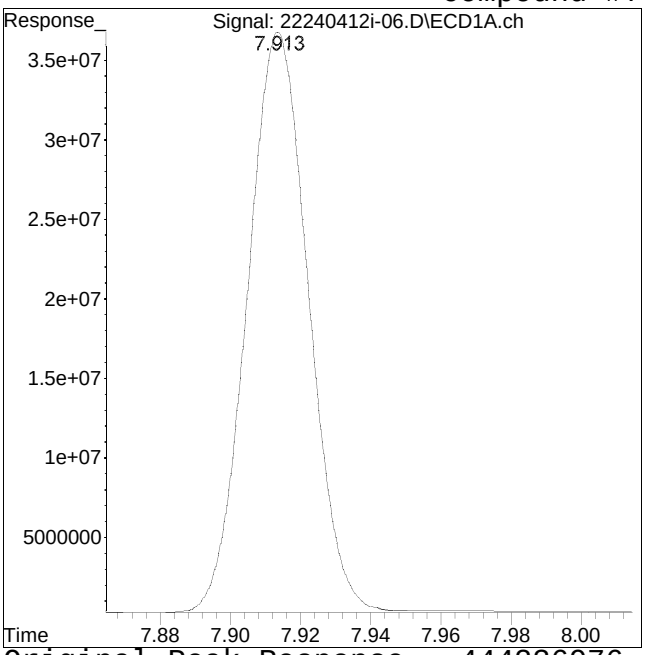


Manual Peak Response = 257106775 M4
M4 = Poor automated baseline construction.

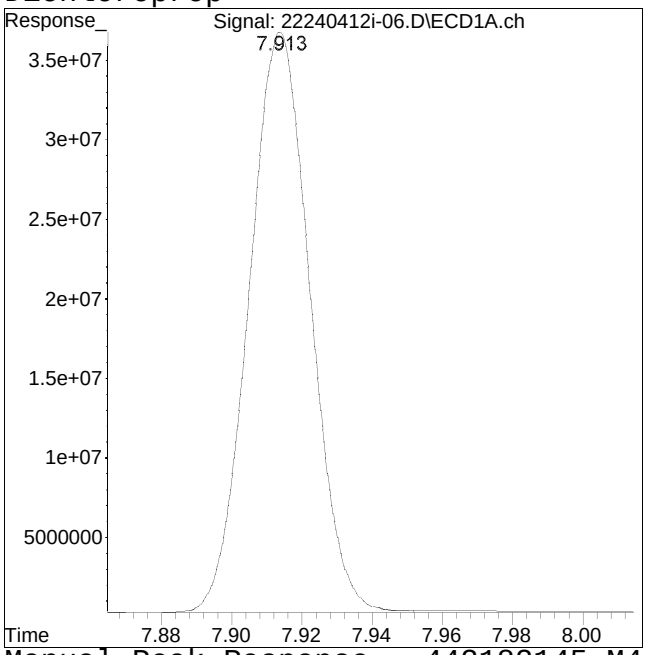
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #7: Dichloroprop



Original Peak Response = 444236976

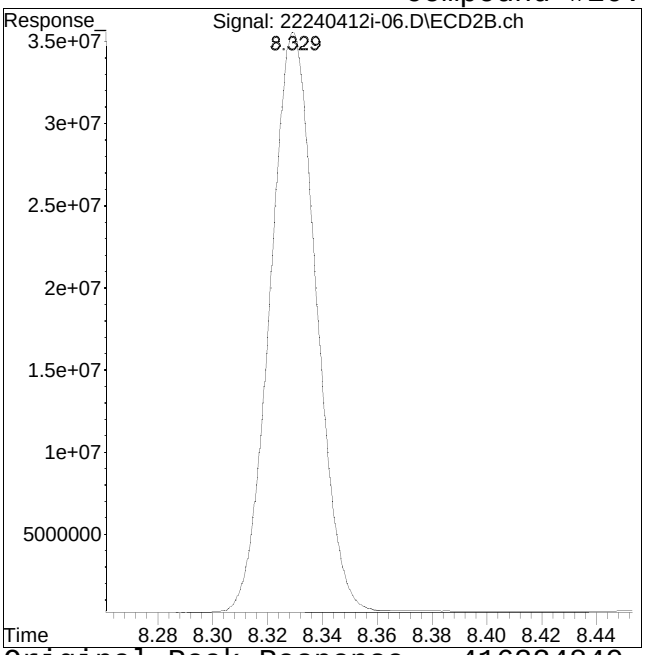


Manual Peak Response = 442182145 M4
M4 = Poor automated baseline construction.

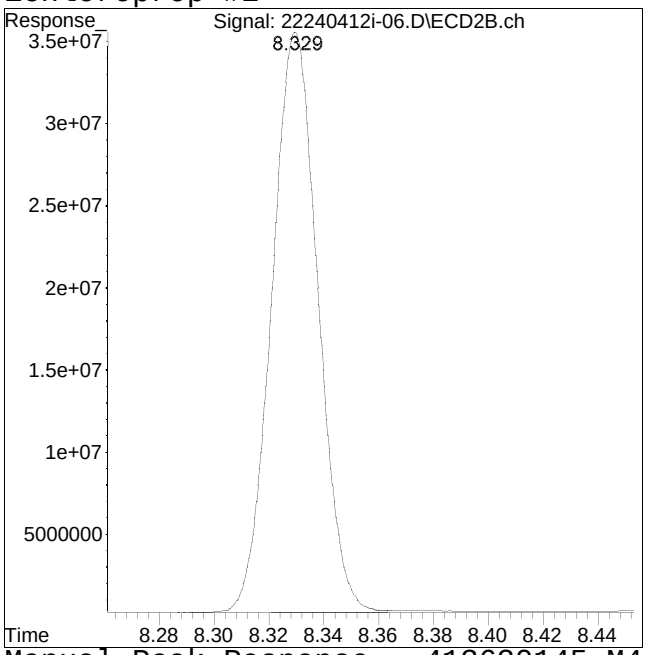
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #20: Dichloroprop #2



Original Peak Response = 416324840

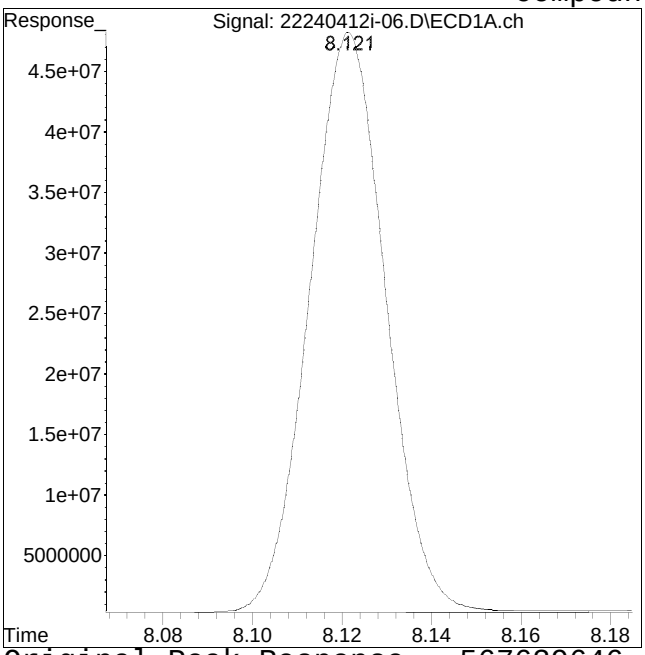


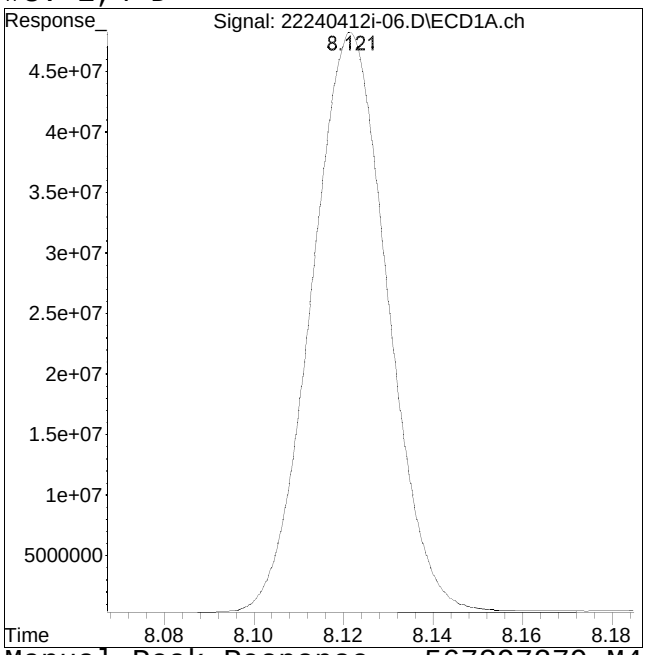
Manual Peak Response = 413630145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #8: 2,4-D



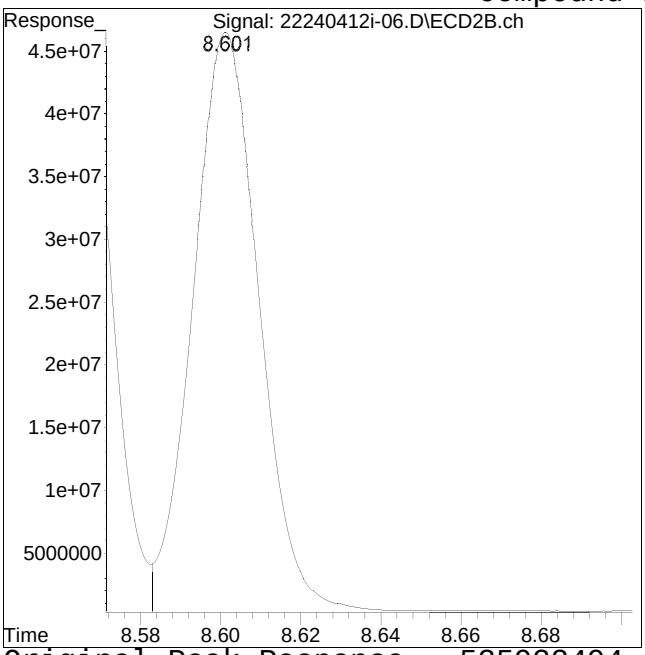


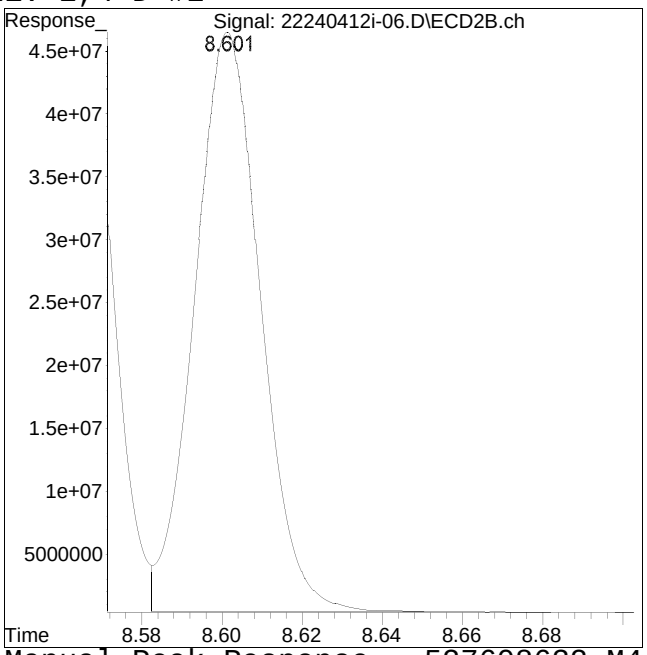
Original Peak Response = 567639646 Manual Peak Response = 567397279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #21: 2,4-D #2



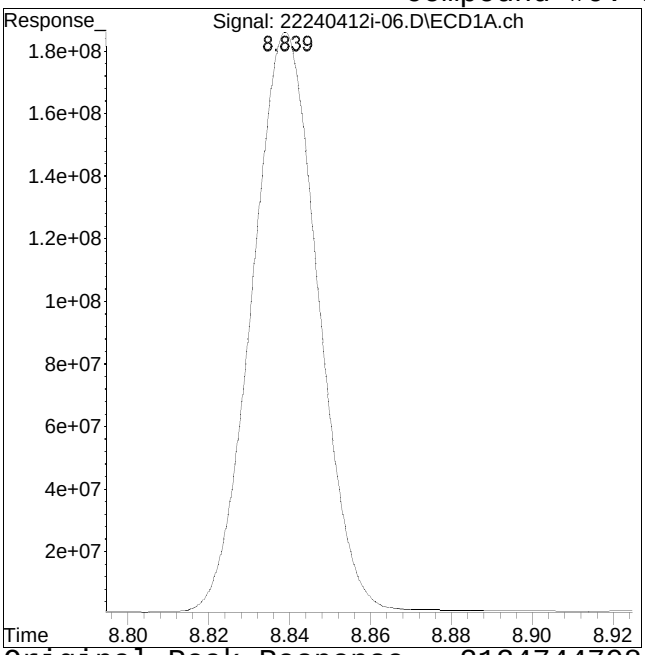


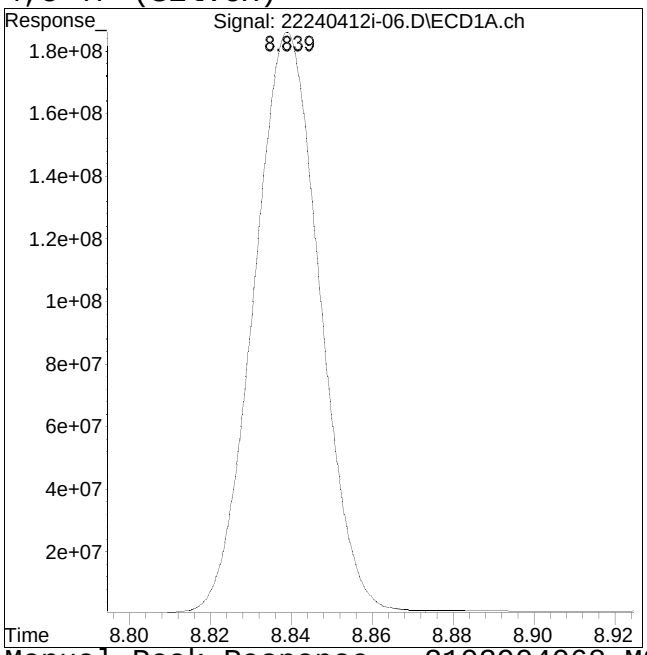
Original Peak Response = 535932494 Manual Peak Response = 527608632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #9: 2,4,5-TP (Silvex)



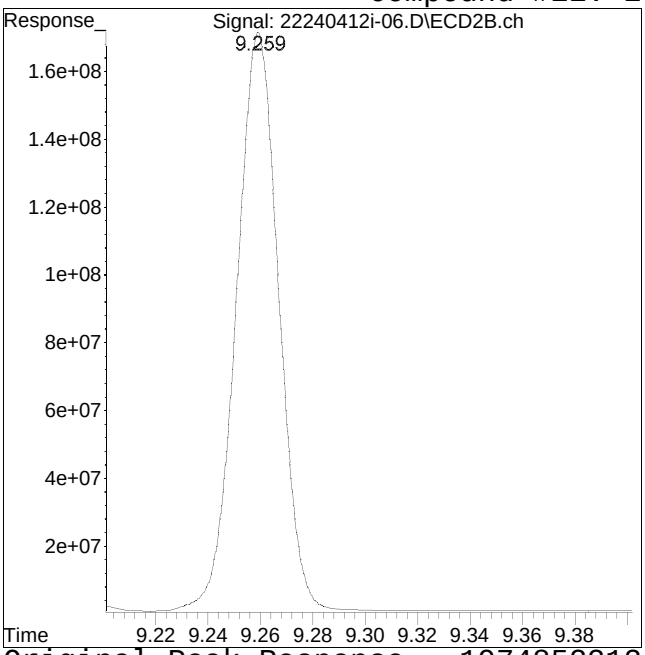


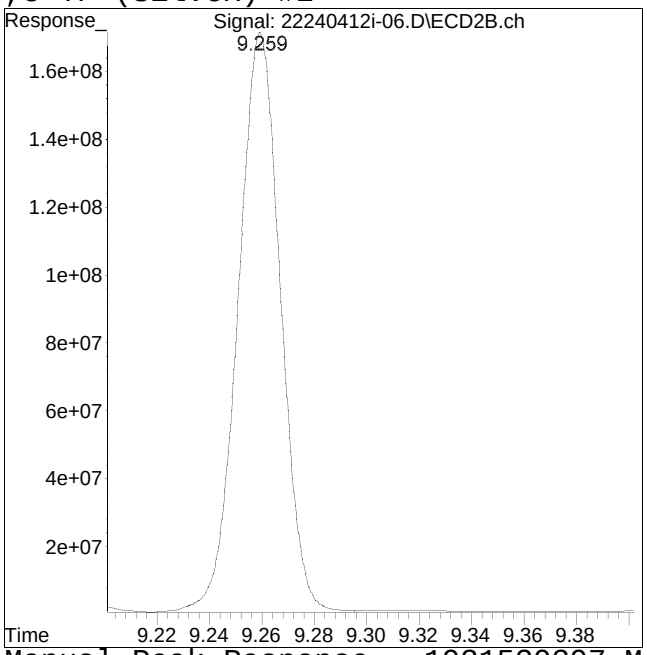
Original Peak Response = 2124744708 Manual Peak Response = 2103904068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #22: 2,4,5-TP (Silvex) #2



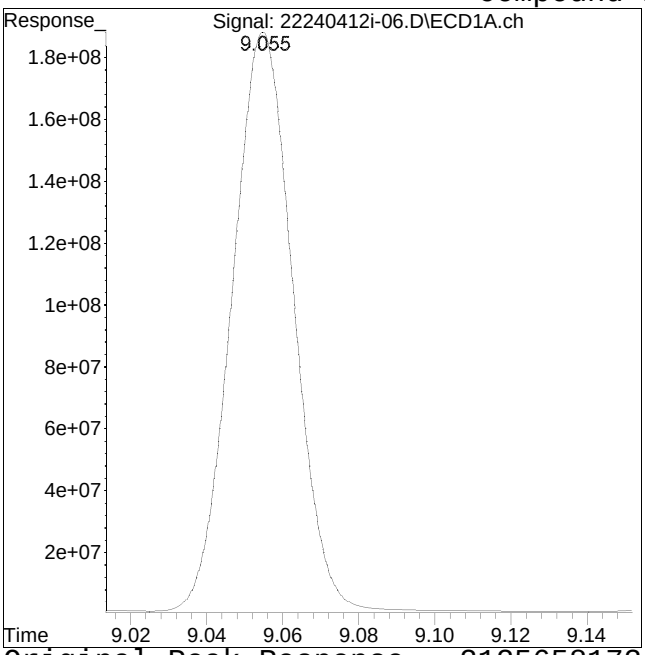


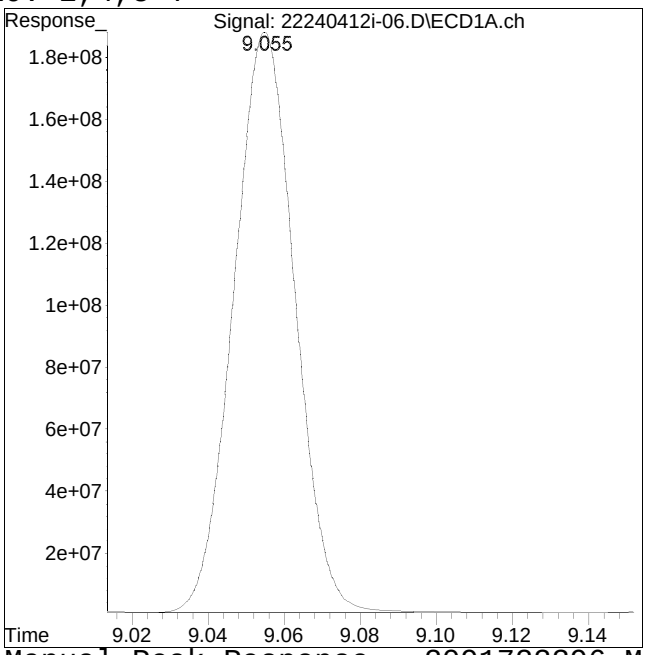
Original Peak Response = 1974852212 Manual Peak Response = 1931539397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #10: 2,4,5-T



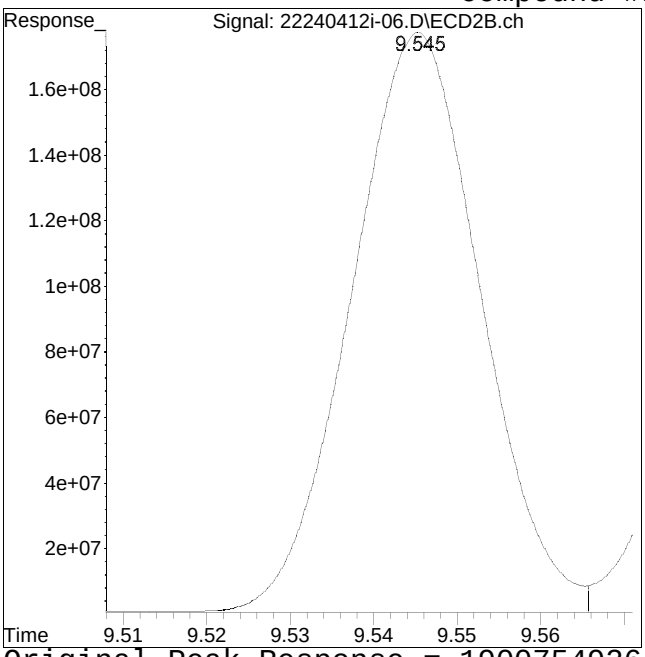


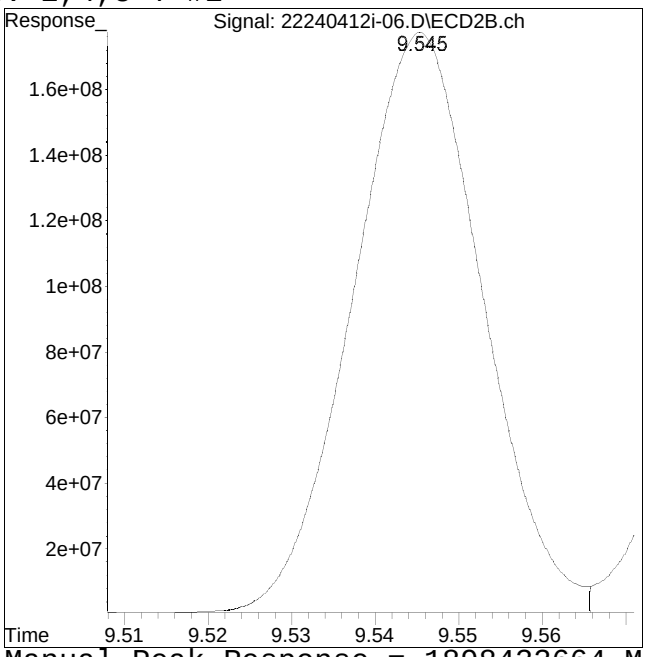
Original Peak Response = 2125658173 Manual Peak Response = 2091723396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #23: 2,4,5-T #2



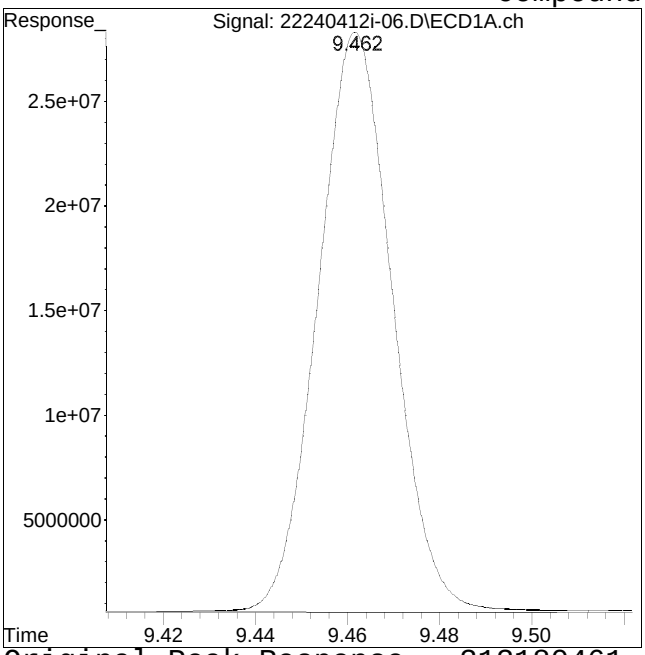


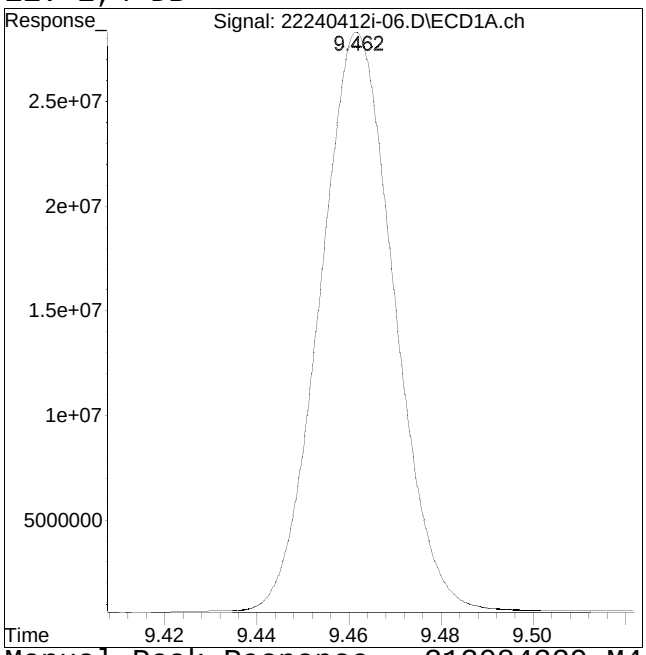
Original Peak Response = 1900754926 Manual Peak Response = 1898433664 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #11: 2,4-DB



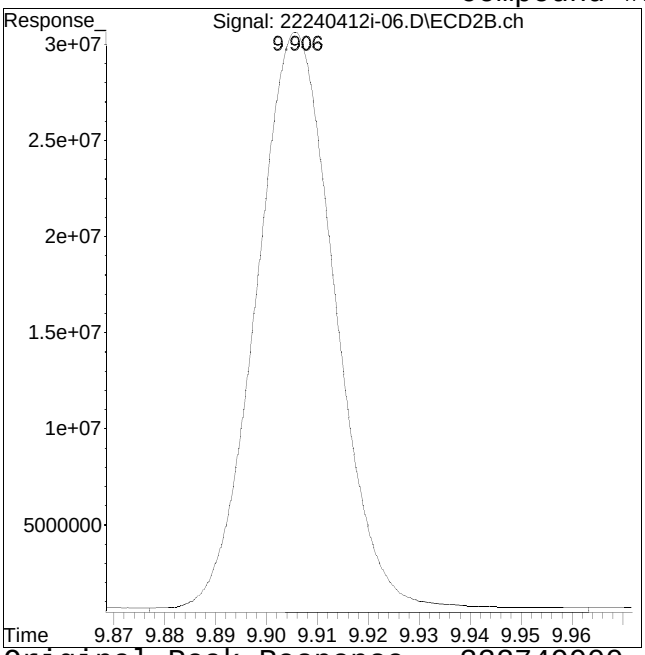


Original Peak Response = 313180461 Manual Peak Response = 312084329 M4
M4 = Poor automated baseline construction.

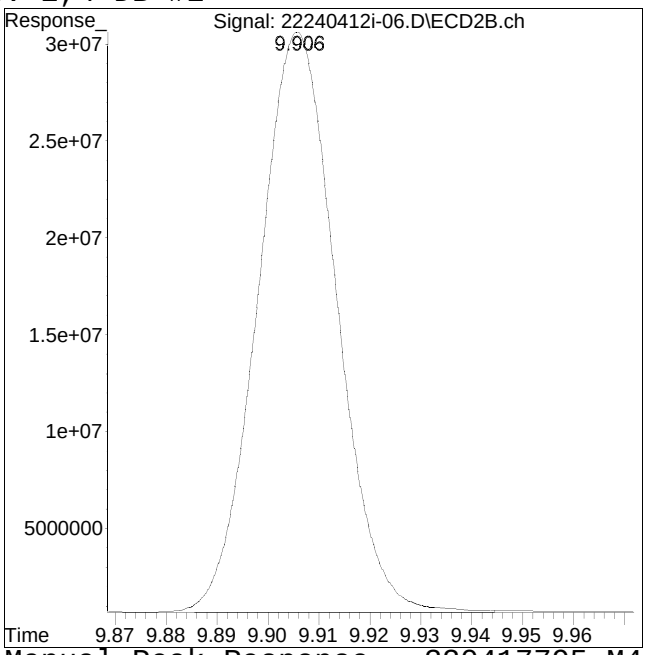
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #24: 2,4-DB #2



Original Peak Response = 332749900



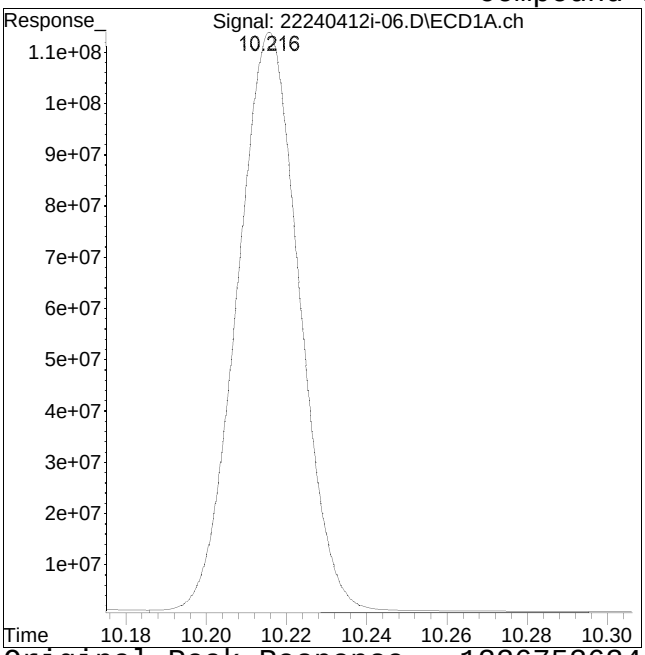
Manual Peak Response = 320417795 M4

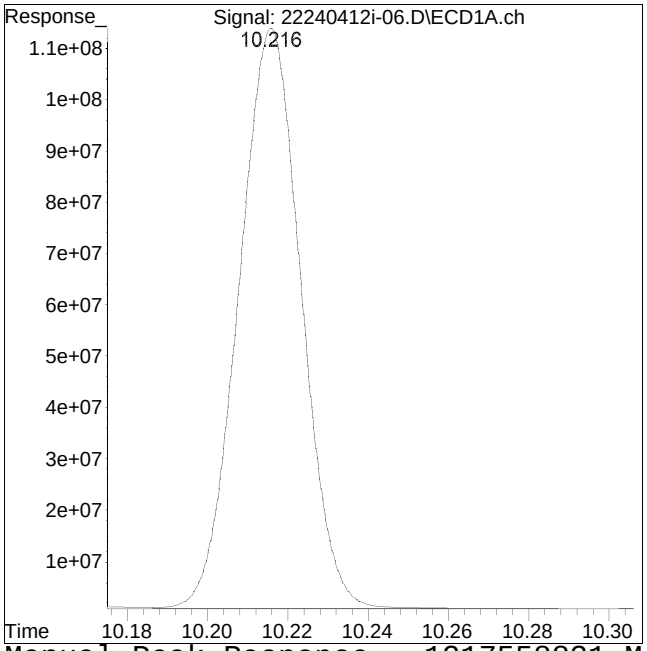
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #12: Dinoseb



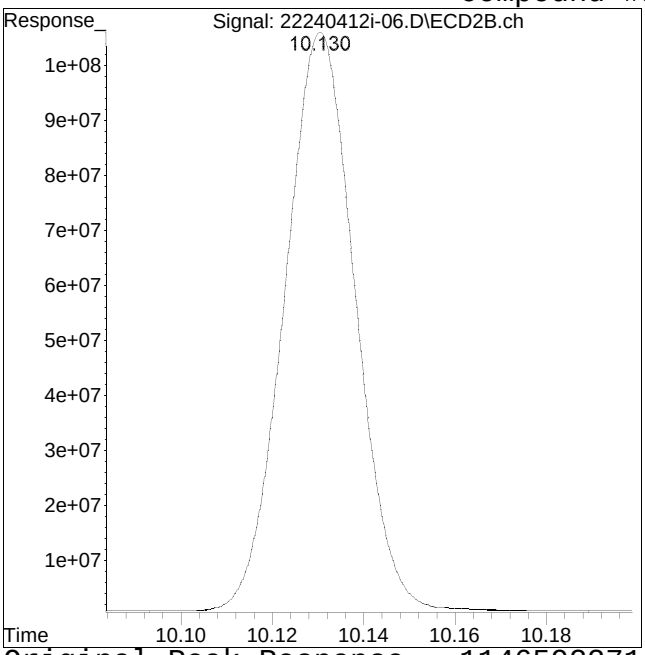


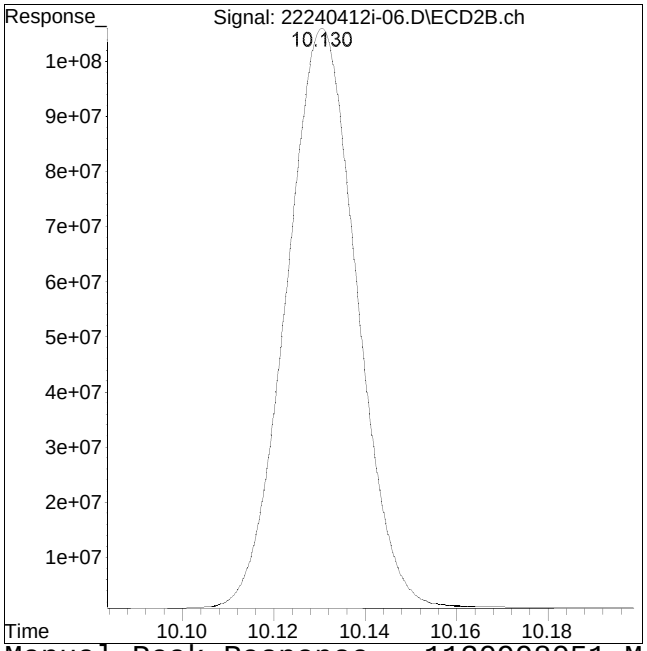
Original Peak Response = 1236753634 Manual Peak Response = 1217558831 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #25: Dinoseb #2





Original Peak Response = 1146592271 Manual Peak Response = 1130998051 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.565	727.2E6	646.4E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	890.2E6	822.4E6	1.545M4	1.653M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	309.00%#	330.60%#
		Target Compounds						
2)	t	Dalapon	2.423	2.420	988.0E6	866.5E6	1.622	1.674
4)	t	Dicamba	7.212	7.677	2594.0E6	2566.6E6	1.577M4	1.727M4
5)	t	MCPP	7.416	7.791	282.9E6	337.2E6	180.867M4	183.135M3
6)	t	MCPA	7.563	8.017	429.9E6	493.6E6	161.013M4	166.099
7)	t	Dichloroprop	7.914	8.331	805.8E6	781.8E6	1.506M4	1.661M4
8)	t	2,4-D	8.121	8.602	1052.5E6	1016.8E6	1.562M4	1.737M4
9)	t	2,4,5-TP (Si	8.840	9.260	3962.8E6	3771.2E6	1.610M4	1.768M4
10)	t	2,4,5-T	9.056	9.547	4017.3E6	3728.1E6	1.662M4	1.797M4
11)	t	2,4-DB	9.462	9.907	591.1E6	625.5E6	1.617M4	1.797M4
12)	t	Dinoseb	10.216	10.132	2340.9E6	2234.9E6	1.665M4	1.817M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

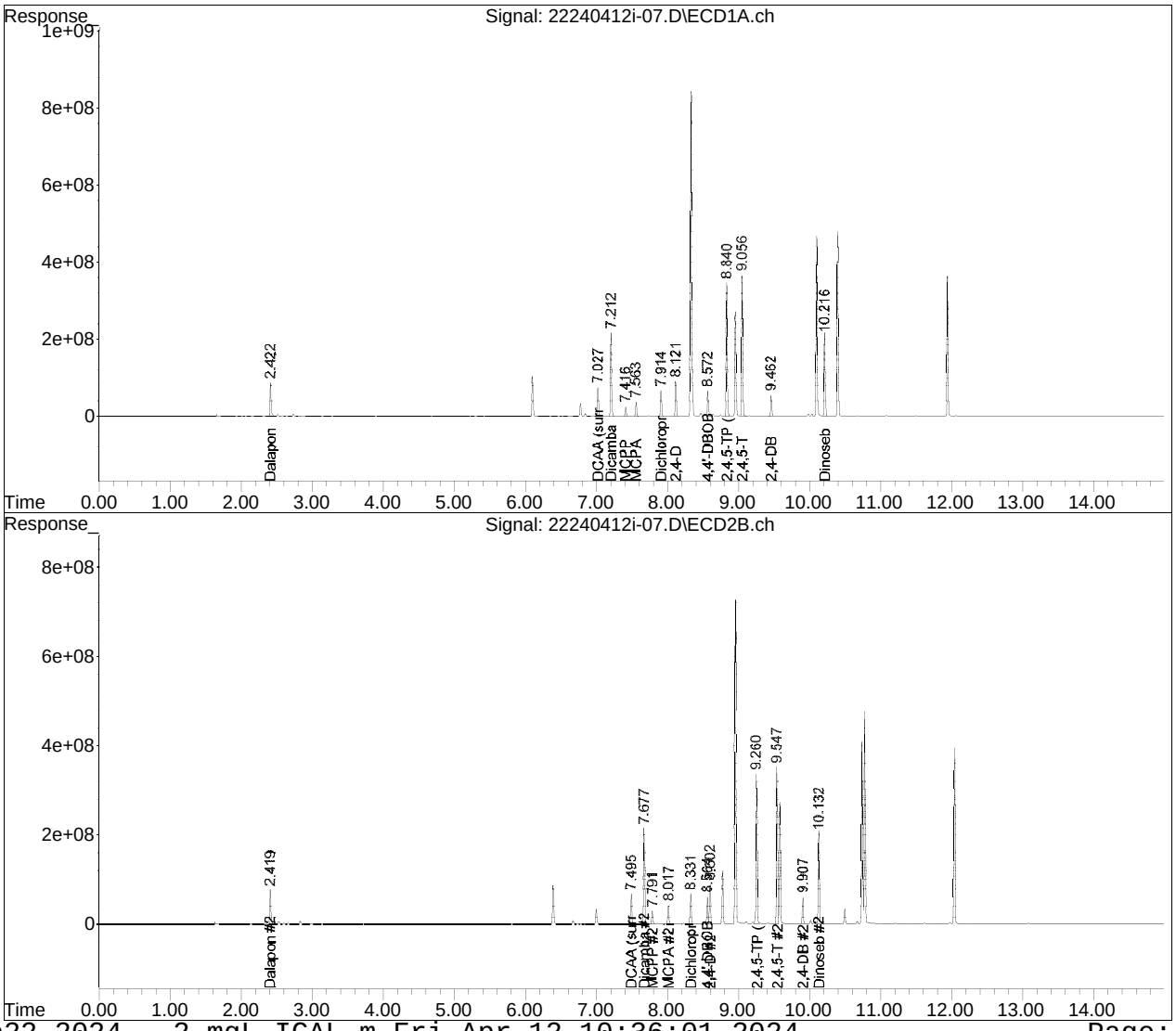
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

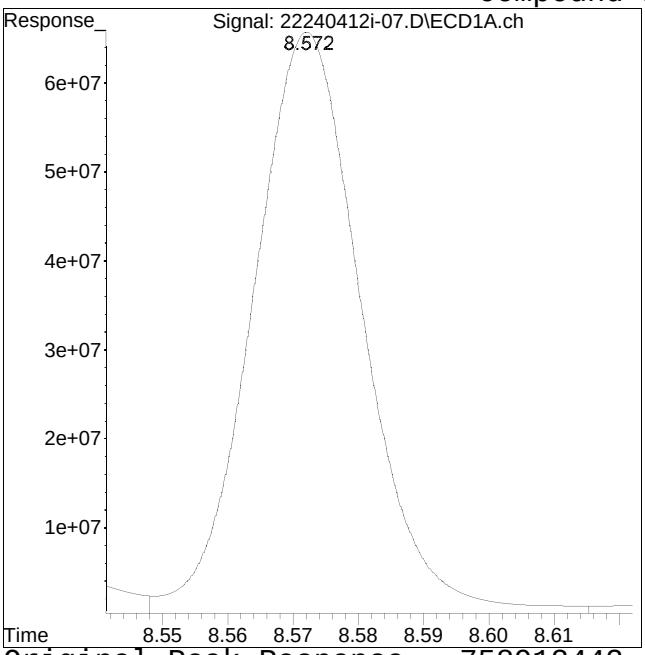
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

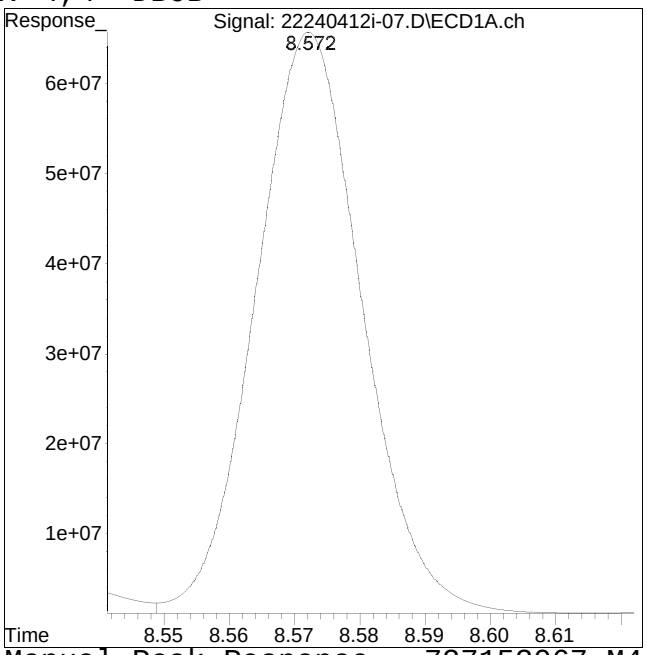


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #1: 4,4'-DBOB



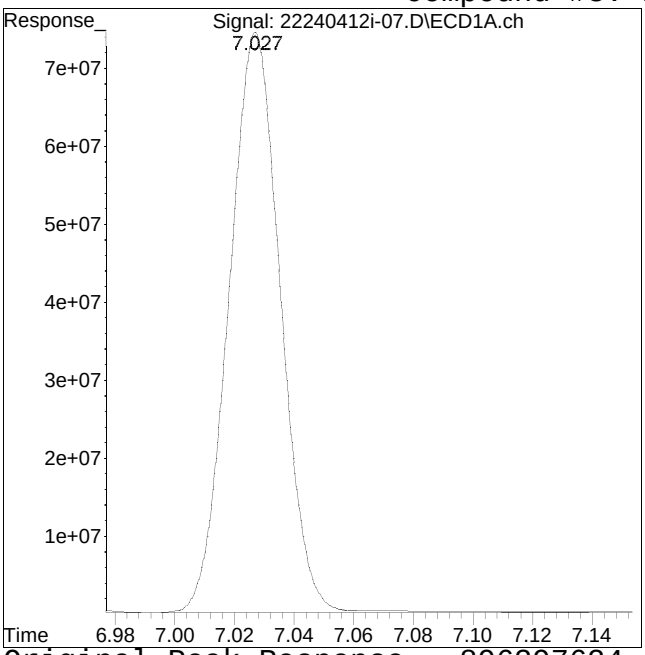


Original Peak Response = 758912442 Manual Peak Response = 727153067 M4
M4 = Poor automated baseline construction.

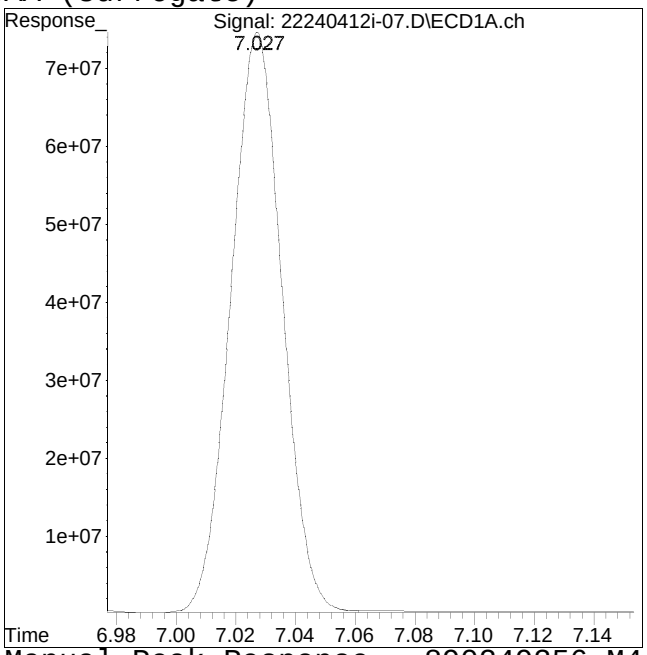
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #3: DCAA (surrogate)



Original Peak Response = 896397624



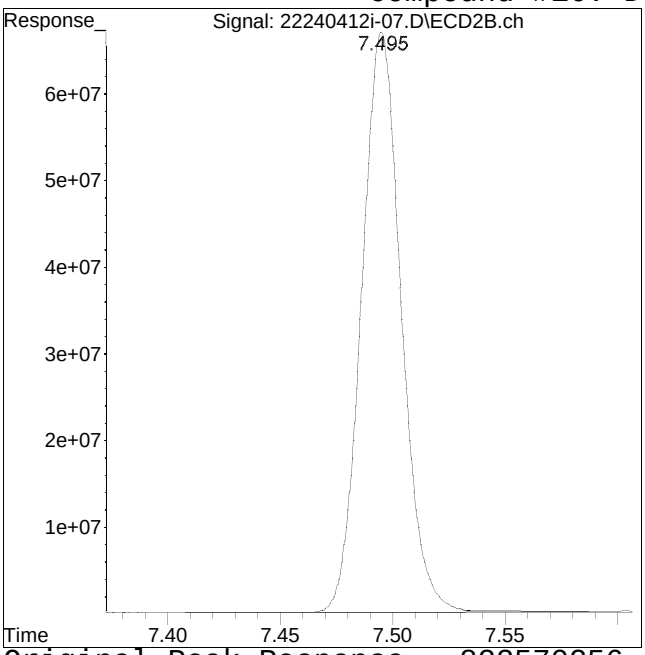
Manual Peak Response = 890249356 M4

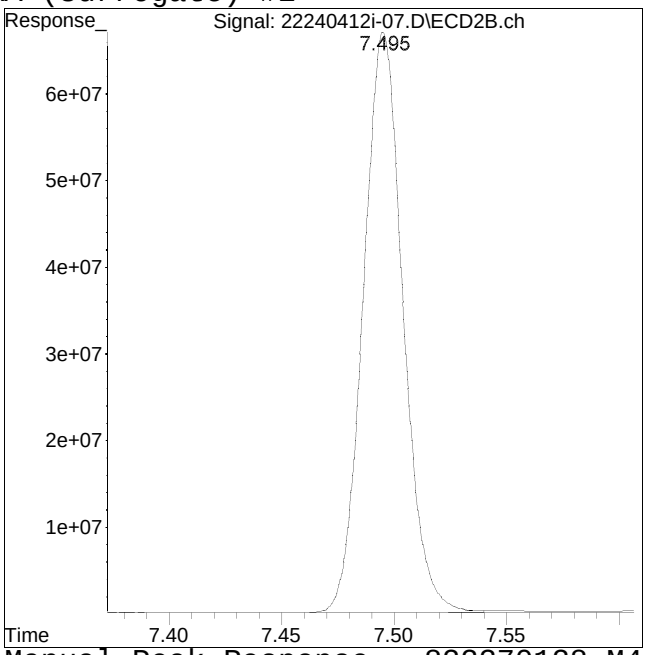
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #16: DCAA (surrogate) #2



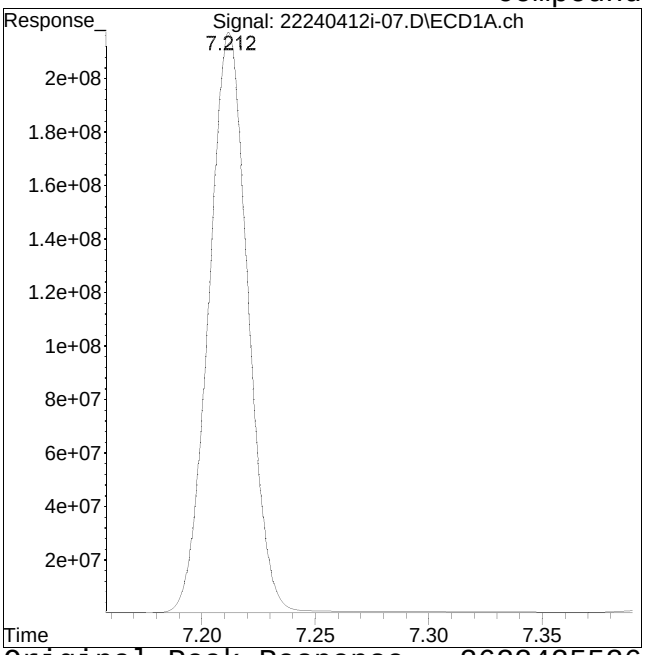


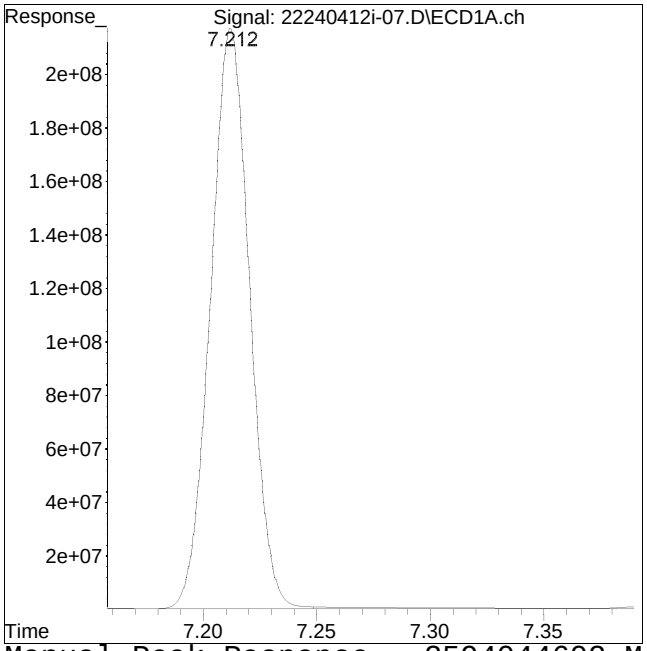
Original Peak Response = 822570256 Manual Peak Response = 822370128 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #4: Dicamba



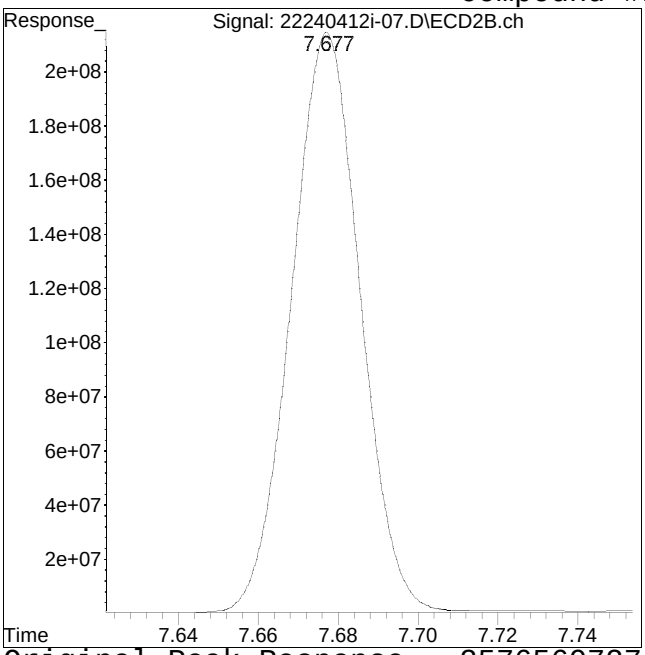


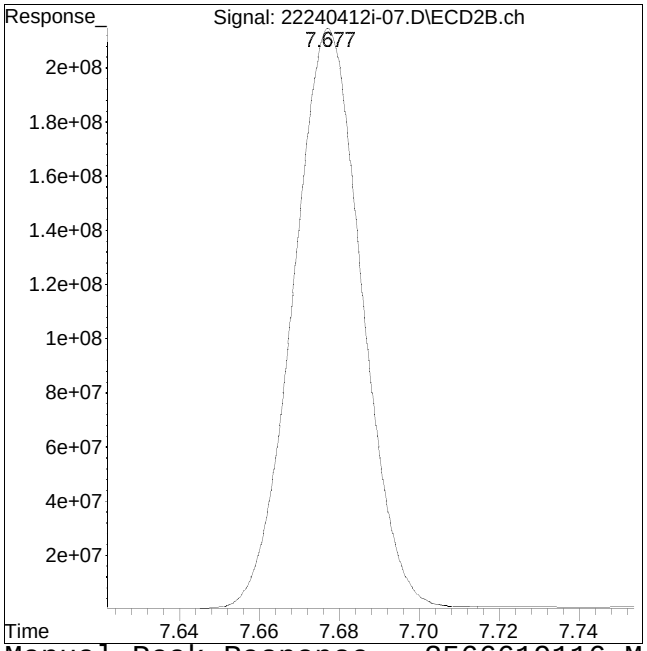
Original Peak Response = 2622425526 Manual Peak Response = 2594044602 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #17: Dicamba #2



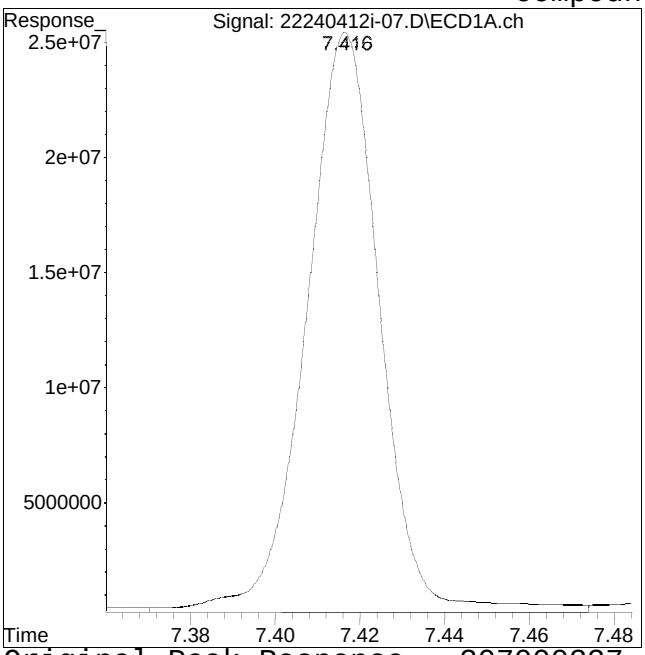


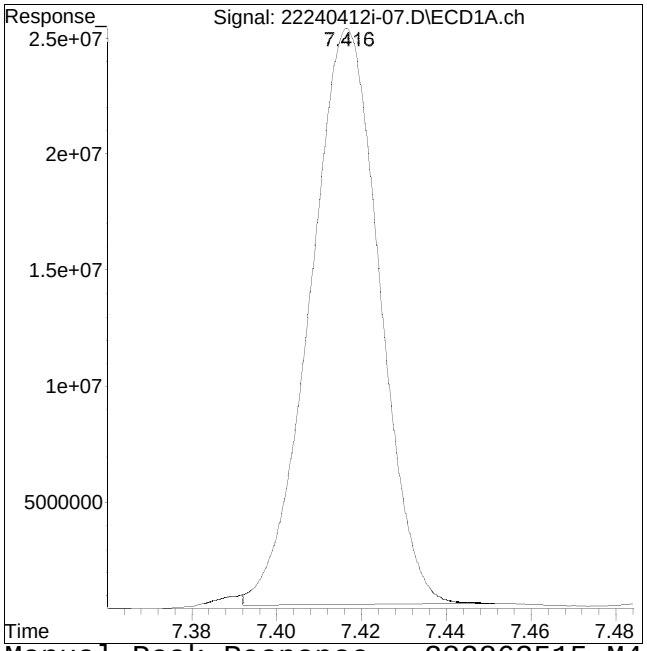
Original Peak Response = 2576569727 Manual Peak Response = 2566619116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #5: MCPP



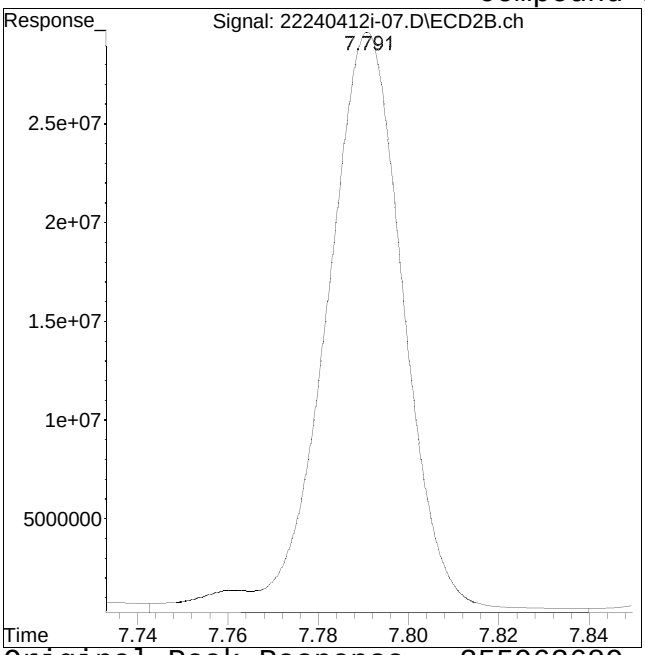


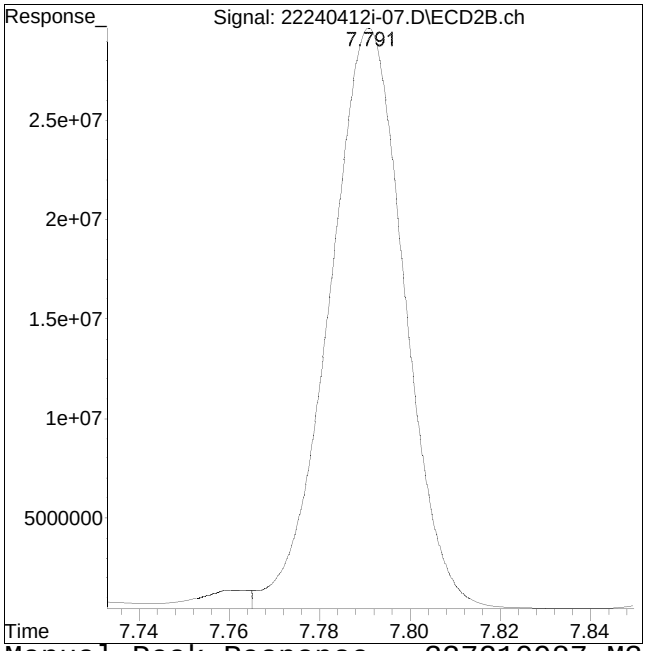
Original Peak Response = 307000337 Manual Peak Response = 282863515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #18: MCPP #2



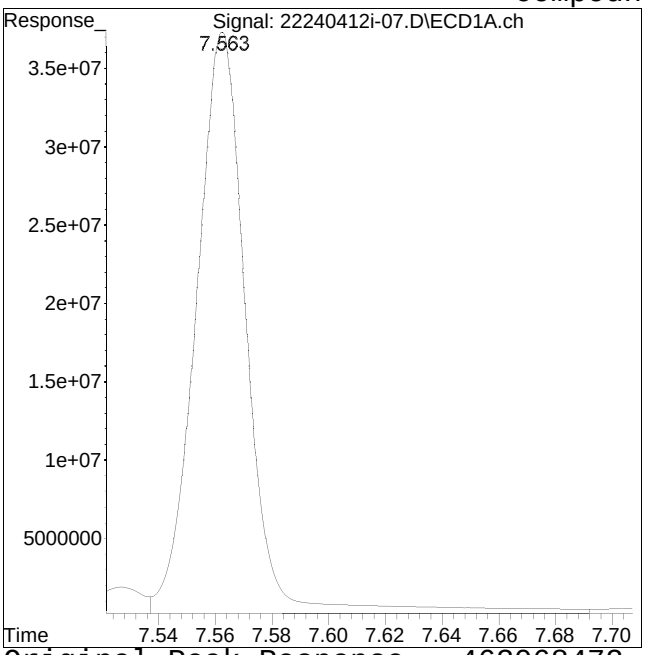


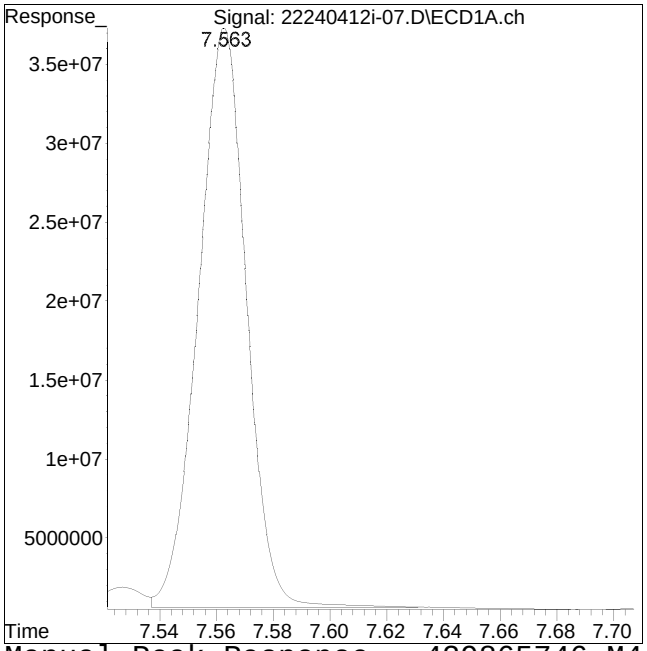
Original Peak Response = 355963689 Manual Peak Response = 337210987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #6: MCPA



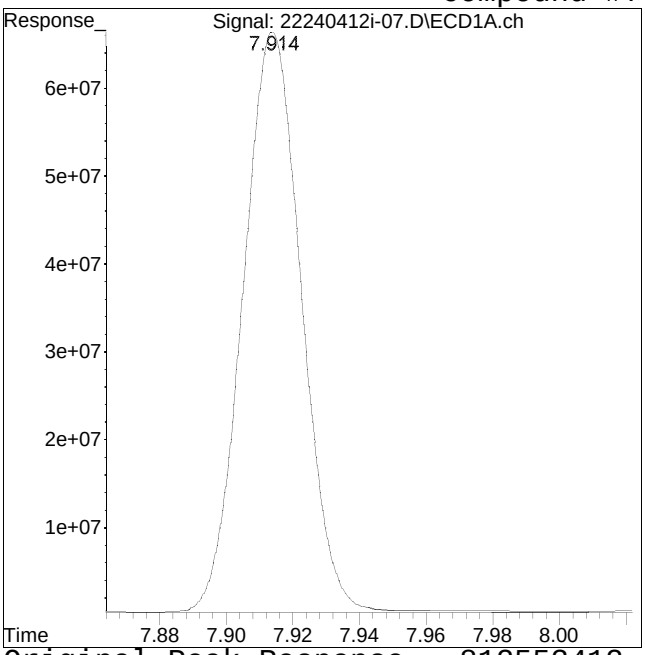


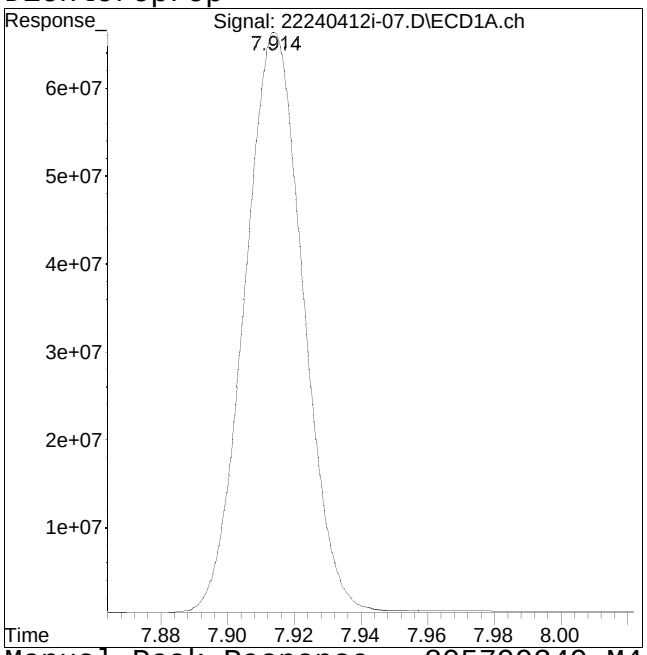
Original Peak Response = 463068472 Manual Peak Response = 429865746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #7: Dichloroprop



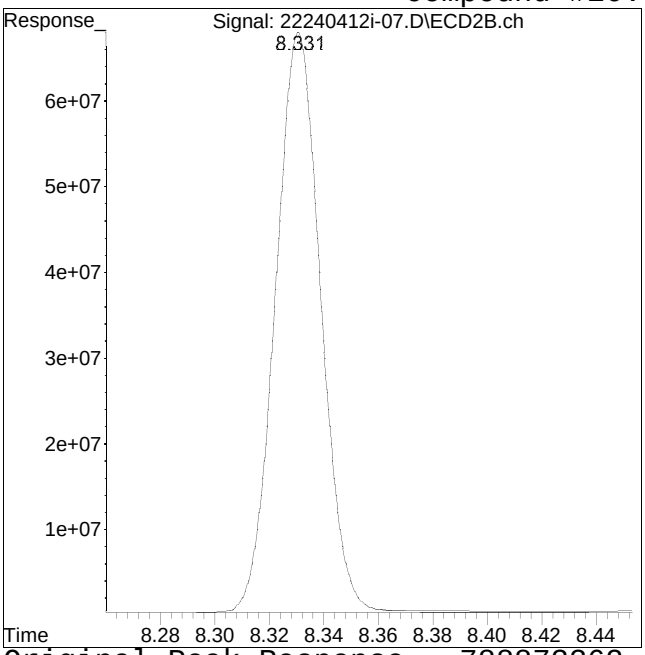


Original Peak Response = 812553412 Manual Peak Response = 805799349 M4
M4 = Poor automated baseline construction.

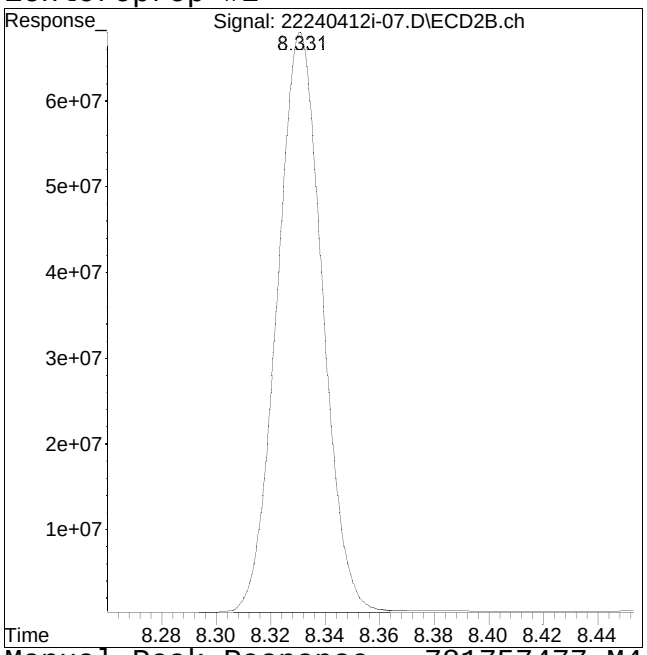
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #20: Dichloroprop #2



Original Peak Response = 788873362

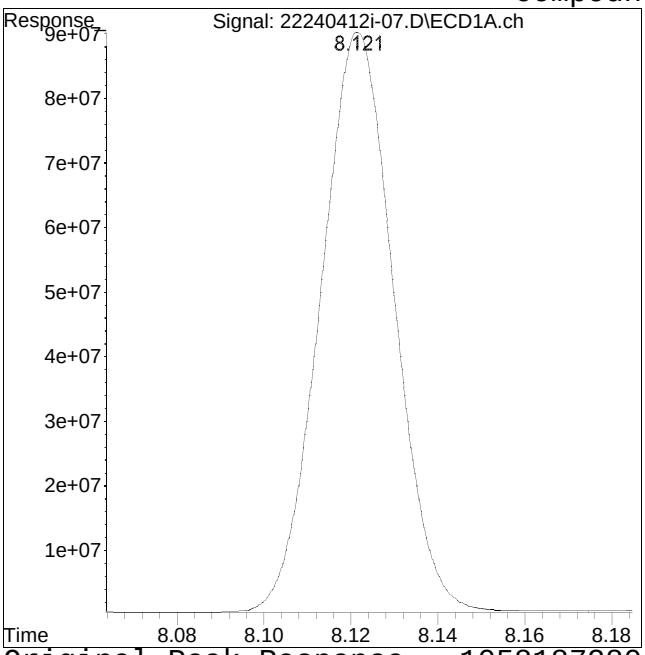


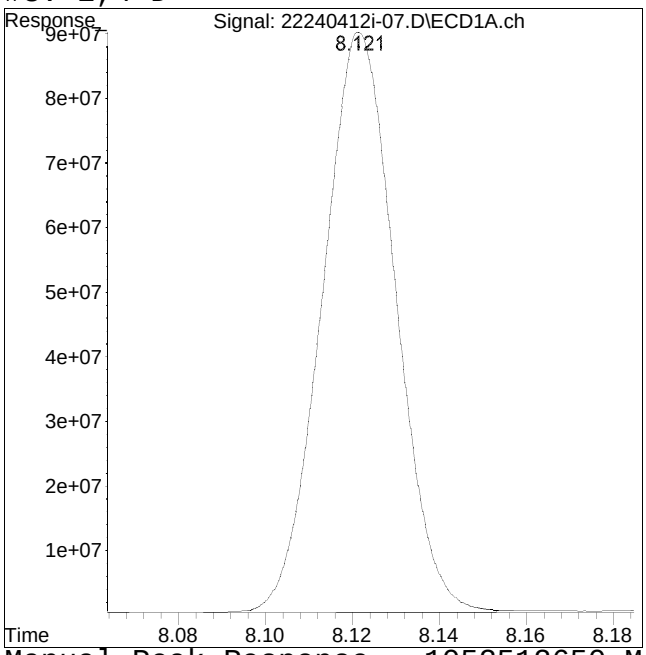
Manual Peak Response = 781757477 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #8: 2,4-D



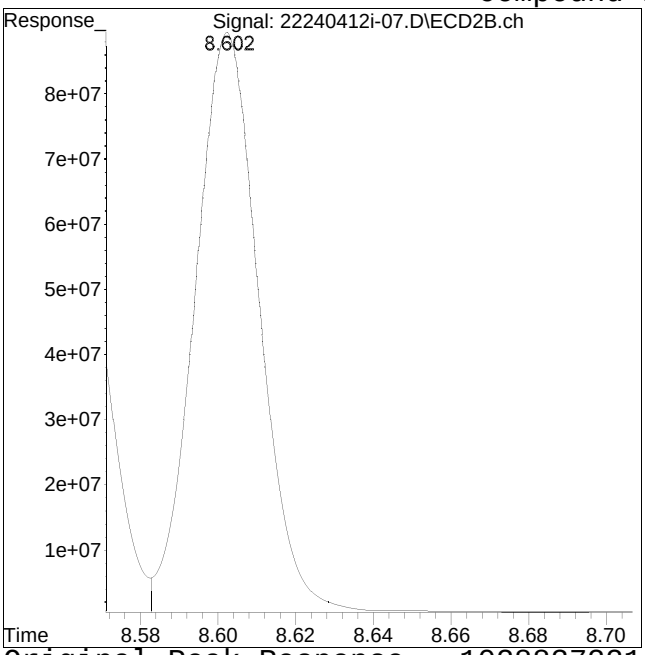


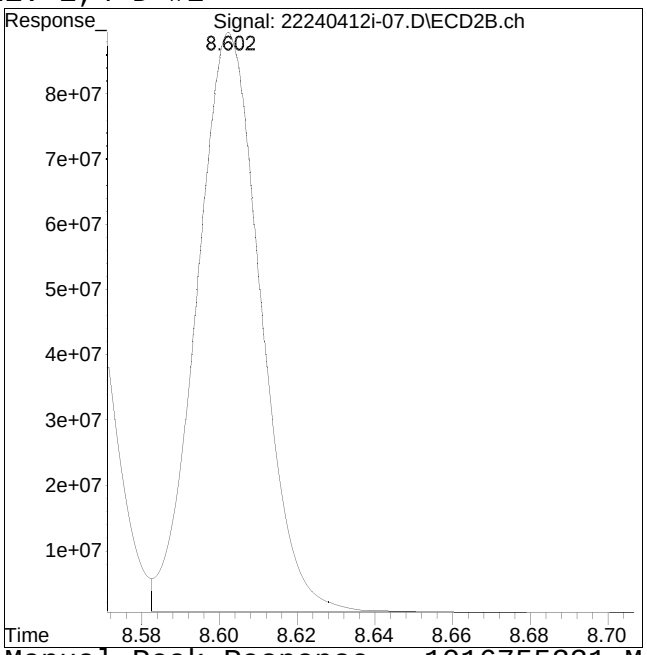
Original Peak Response = 1058187280 Manual Peak Response = 1052512650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #21: 2,4-D #2



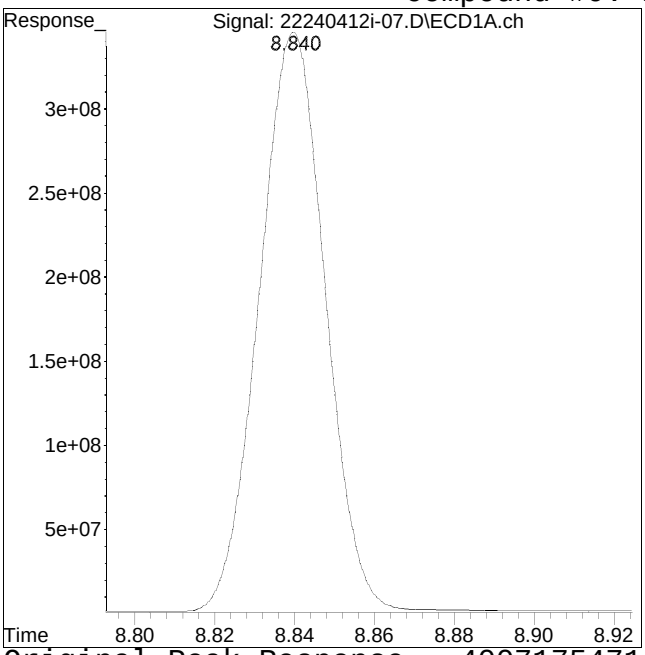


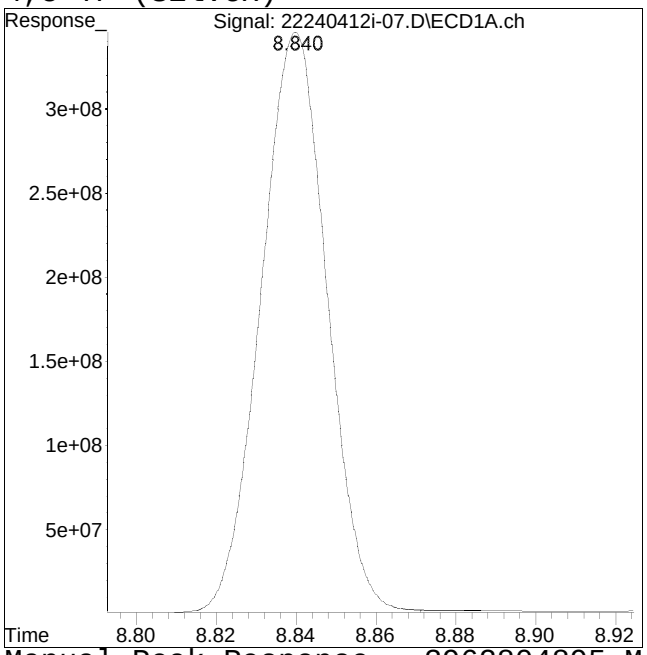
Original Peak Response = 1028837221 Manual Peak Response = 1016755331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #9: 2,4,5-TP (Silvex)



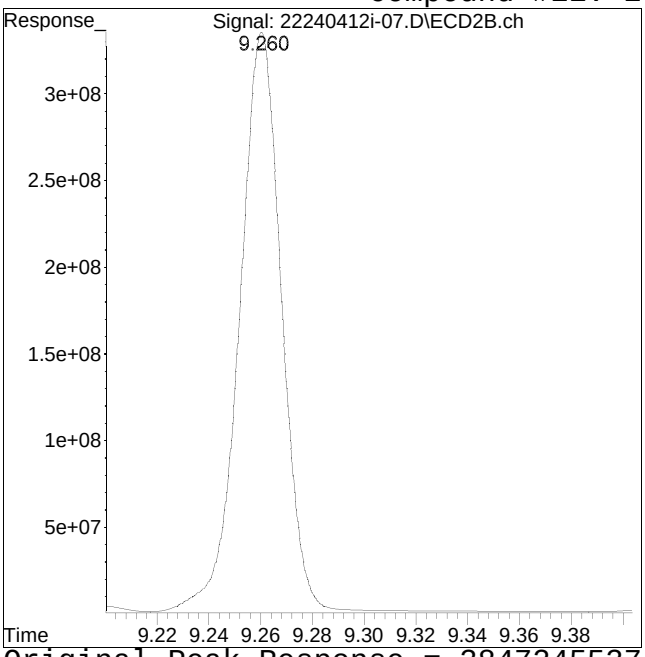


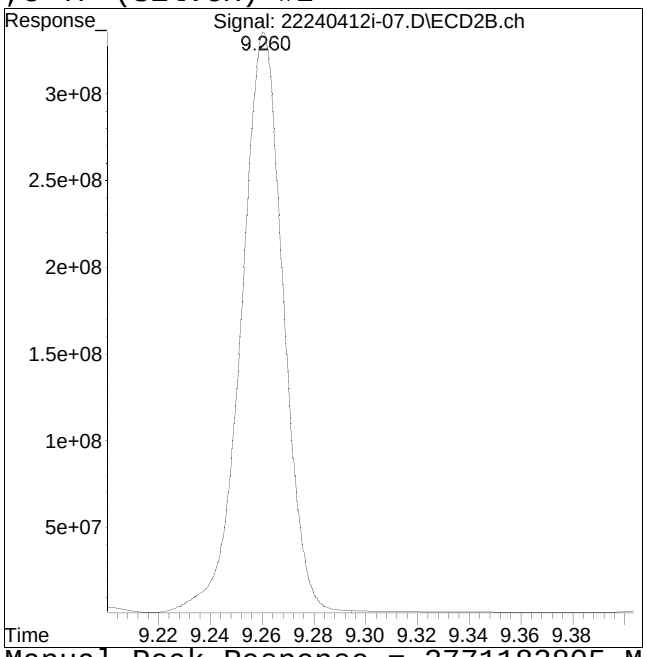
Original Peak Response = 4007175471 Manual Peak Response = 3962804895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #22: 2,4,5-TP (Silvex) #2



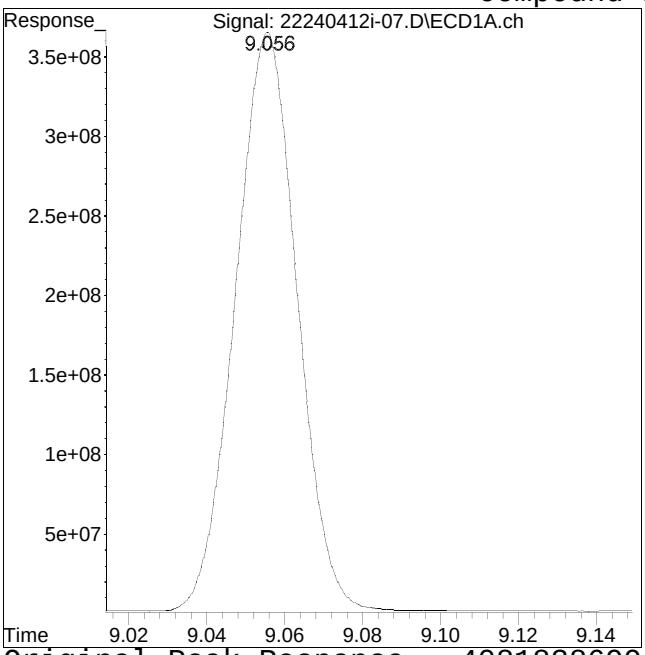


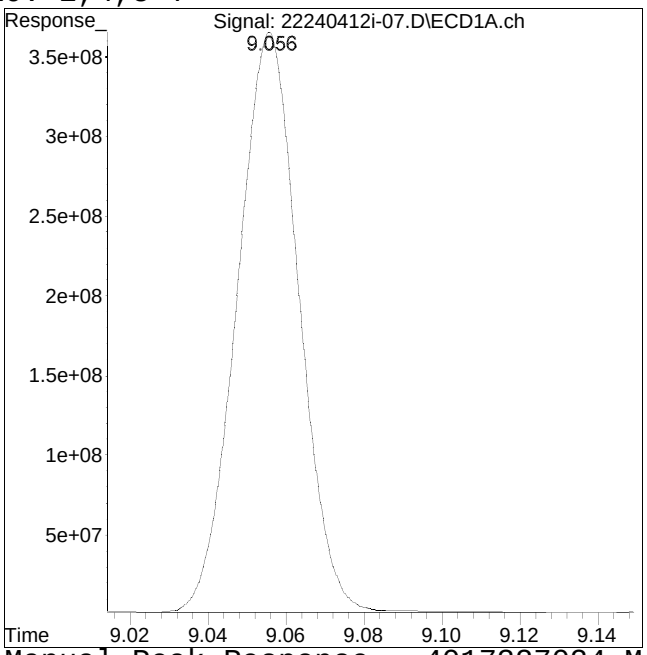
Original Peak Response = 3847245537 Manual Peak Response = 3771183805 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #10: 2,4,5-T



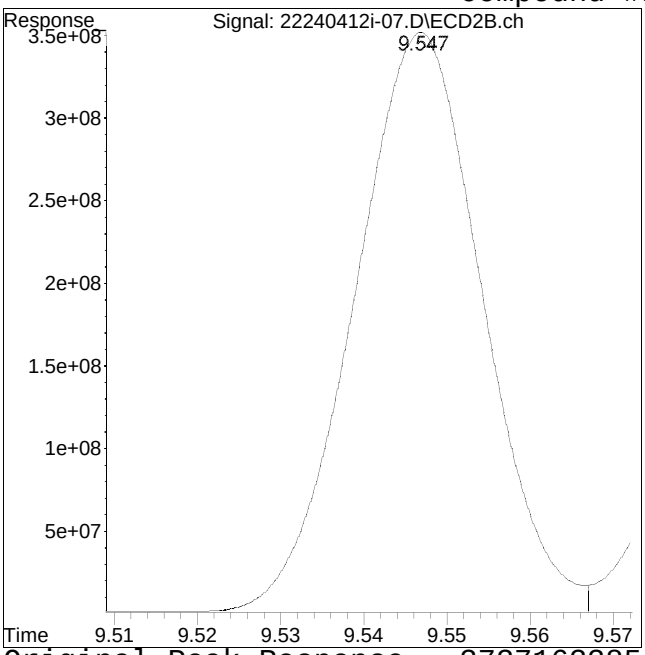


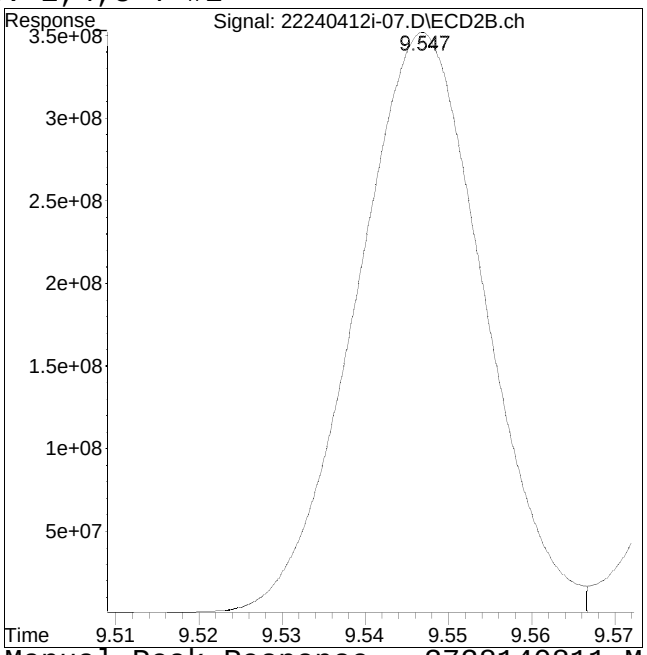
Original Peak Response = 4081838699 Manual Peak Response = 4017327024 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #23: 2,4,5-T #2



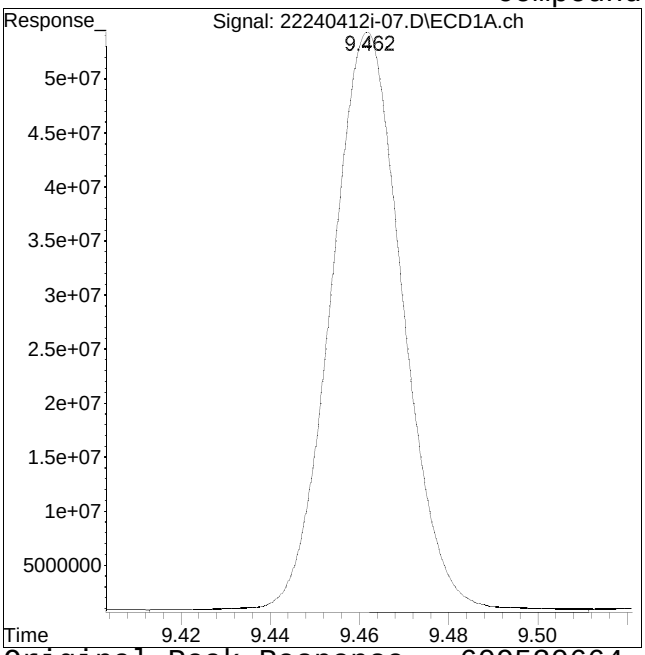


Original Peak Response = 3737163385 Manual Peak Response = 3728140811 M4
M4 = Poor automated baseline construction.

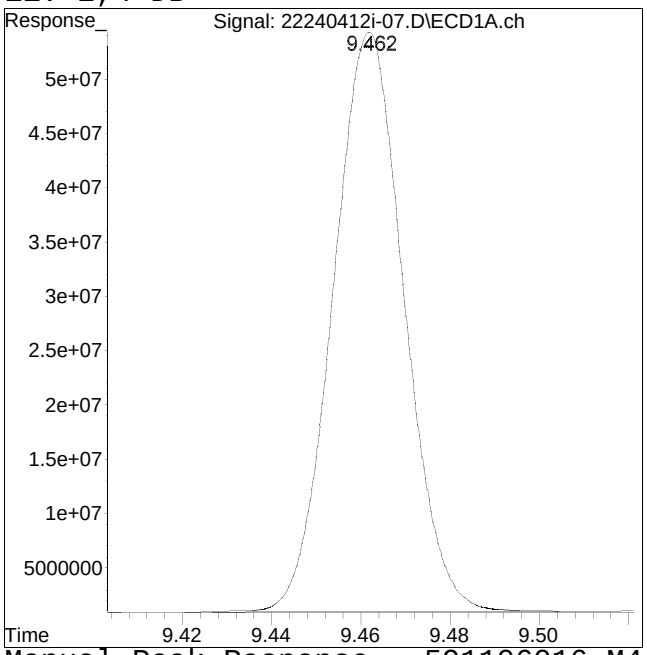
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #11: 2,4-DB



Original Peak Response = 609530664



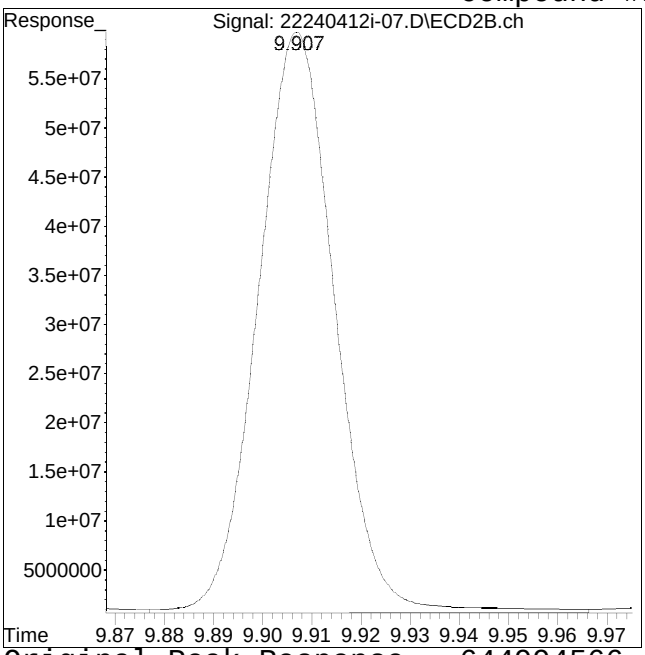
Manual Peak Response = 591106016 M4

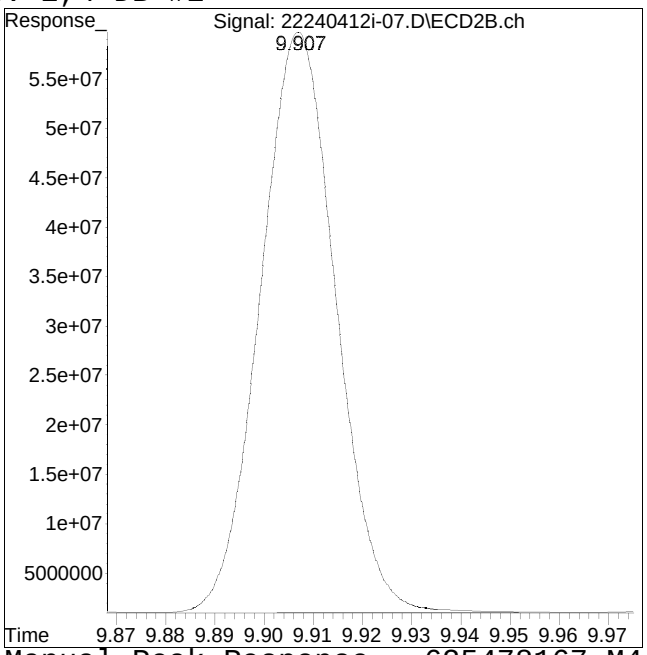
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #24: 2,4-DB #2



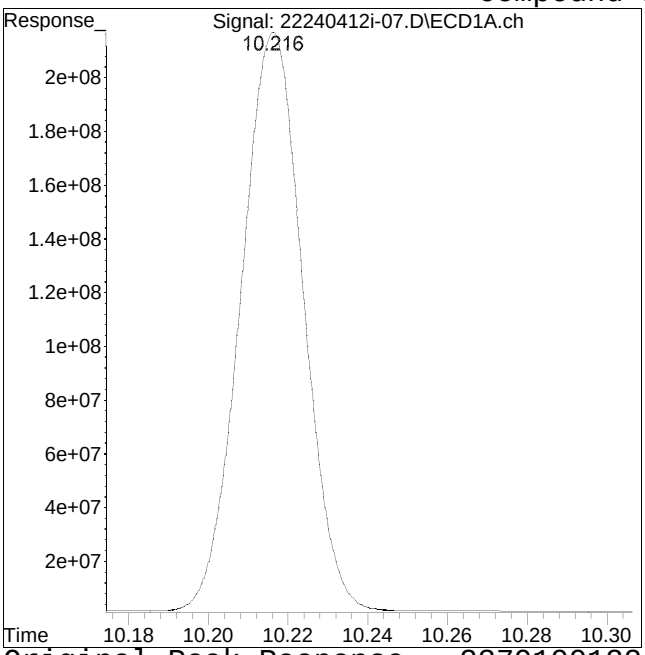


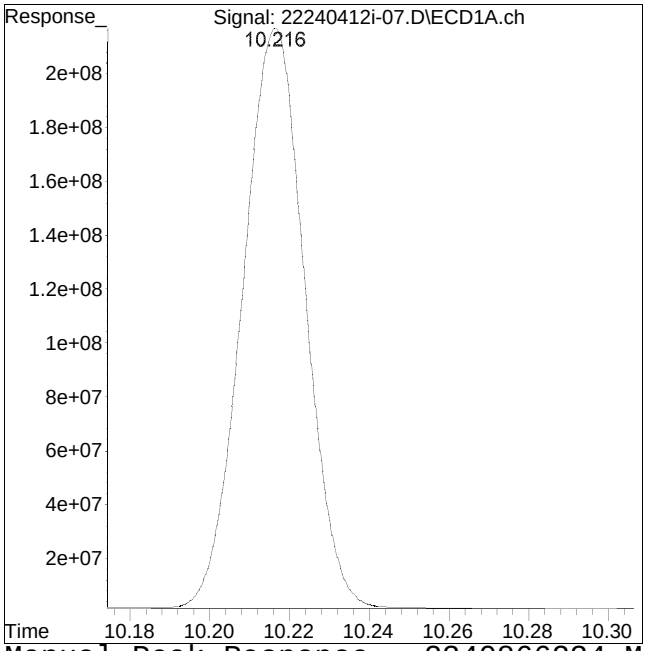
Original Peak Response = 644994566 Manual Peak Response = 625478167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #12: Dinoseb



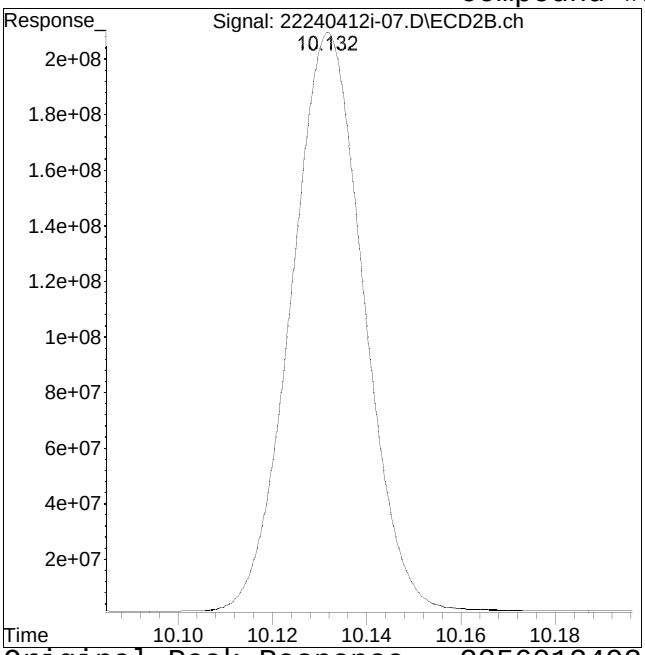


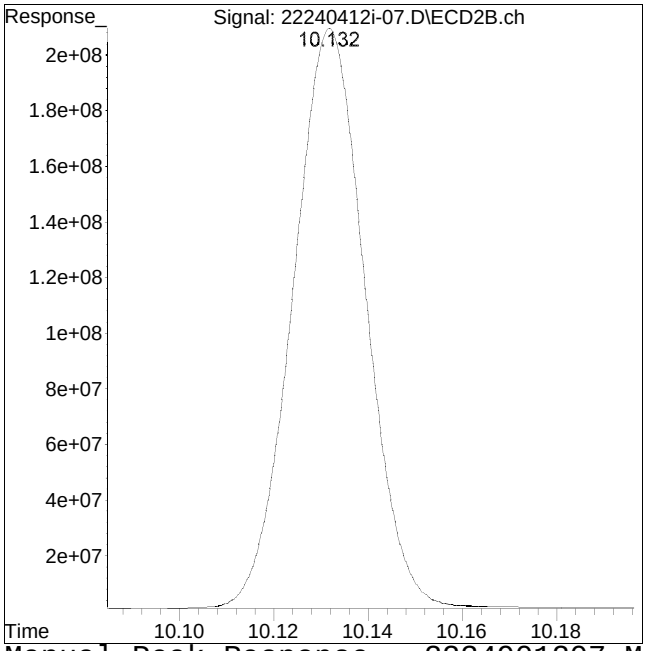
Original Peak Response = 2379199122 Manual Peak Response = 2340866234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #25: Dinoseb #2





Original Peak Response = 2256012493 Manual Peak Response = 2234901207 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	1.000	1.000	0.0	94	0.00
2	t	Dalapon	0.211	0.196	7.1	85	0.00
3	s	DCAA (surrogate)	0.206	0.200	2.9	87	0.00
4	t	Dicamba	0.589	0.576	2.2	87	0.00
5	t	MCPP	0.00052	0.00055	-5.8	95	0.00
6	t	MCPA	0.00097	0.00099	-2.1	91	0.00
7	t	Dichloroprop	0.193	0.207	-7.3	94	0.00
8	t	2,4-D	0.240	0.235	2.1	87	0.00
9	t	2,4,5-TP (Silvex)	0.868	0.842	3.0	86	0.00
10	t	2,4,5-T	0.853	0.840	1.5	88	0.00
11	t	2,4-DB	0.132	0.130	1.5	87	0.00
12	t	Dinoseb	0.493	0.485	1.6	88	0.00

Signal #2

1	i	4,4'-DBOB	1.000	1.000	0.0	92	0.00
2	t	Dalapon	0.197	0.193	2.0	88	0.00
3	s	DCAA (surrogate)	0.203	0.214	-5.4	93	0.00
4	t	Dicamba	0.594	0.597	-0.5	90	0.00
5	t	MCPP	0.00074	0.00075	-1.4	93	0.00
6	t	MCPA	0.00124	0.00126	-1.6	91	0.00
7	t	Dichloroprop	0.192	0.215	-12.0	99	0.00
8	t	2,4-D	0.237	0.244	-3.0	93	0.00
9	t	2,4,5-TP (Silvex)	0.856	0.860	-0.5	89	0.00
10	t	2,4,5-T	0.831	0.853	-2.6	92	0.00
11	t	2,4-DB	0.141	0.139	1.4	89	0.00
12	t	Dinoseb	0.491	0.506	-3.1	93	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	710.4E6	646.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.026	7.495	106.7E6	103.8E6	0.183M4	0.198M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	36.60%	39.60%
		Target Compounds						
2)	t	Dalapon	2.422	2.418	101.5E6	90678734	0.169	0.178M3
4)	t	Dicamba	7.211	7.676	307.7E6	290.1E6	0.184M4	0.189M3
5)	t	MCPP	7.413	7.788	29475629	36477309	19.908M4	19.176M4
6)	t	MCPA	7.559	8.013	52248199	60587732	19.021M4	18.909M4
7)	t	Dichloroprop	7.914	8.330	110.5E6	104.6E6	0.201	0.211M4
8)	t	2,4-D	8.122	8.602	125.3E6	118.5E6	0.184M4	0.193M4
9)	t	2,4,5-TP (Si	8.839	9.260	454.6E6	422.4E6	0.184M4	0.191M4
10)	t	2,4,5-T	9.055	9.546	453.6E6	418.6E6	0.187M4	0.195
11)	t	2,4-DB	9.462	9.906	70895673	69153610	0.189M4	0.190M4
12)	t	Dinoseb	10.216	10.131	261.6E6	248.6E6	0.187M4	0.196

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

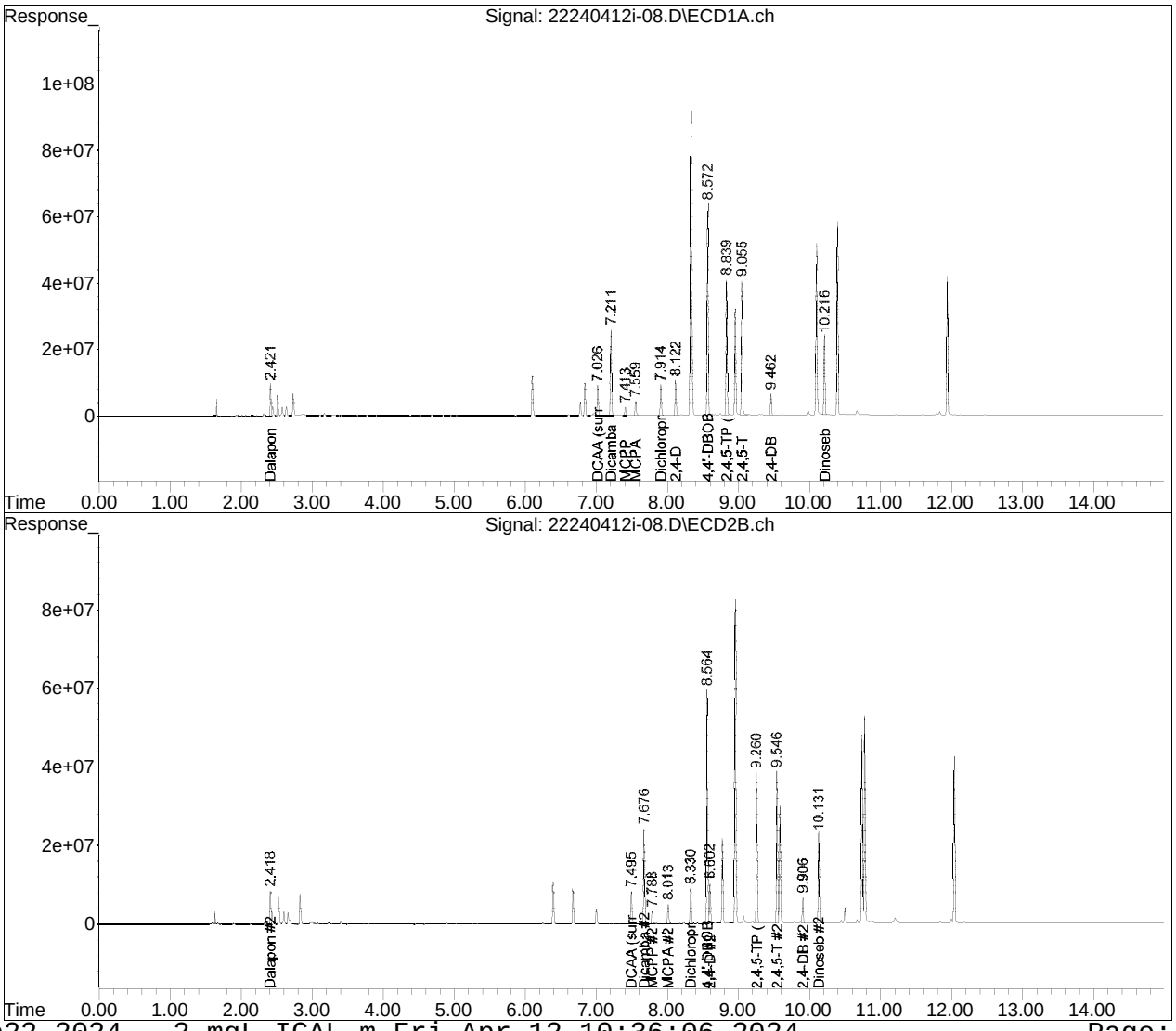
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

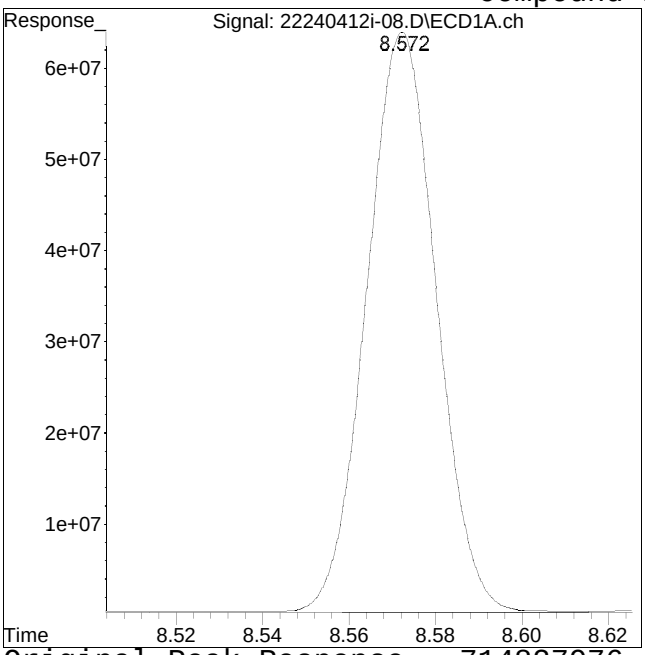
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

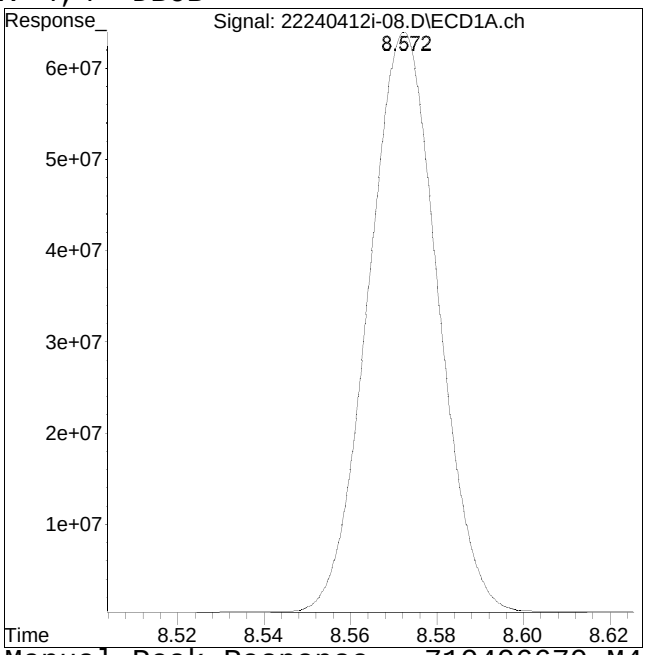


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #1: 4,4'-DBOB



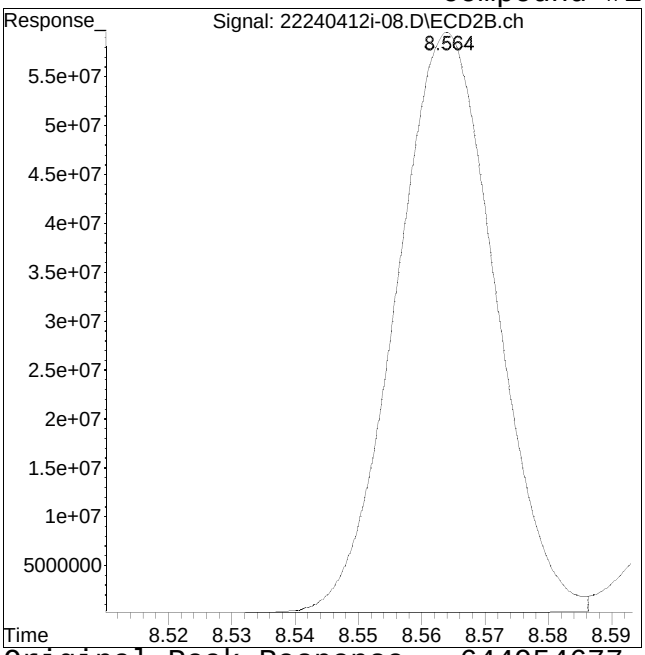


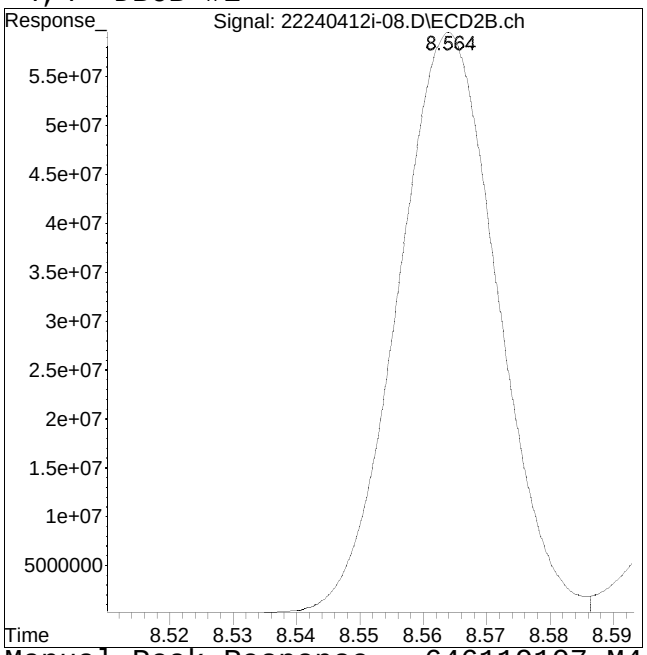
Original Peak Response = 714827976 Manual Peak Response = 710406670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #14: 4,4'-DBOB #2



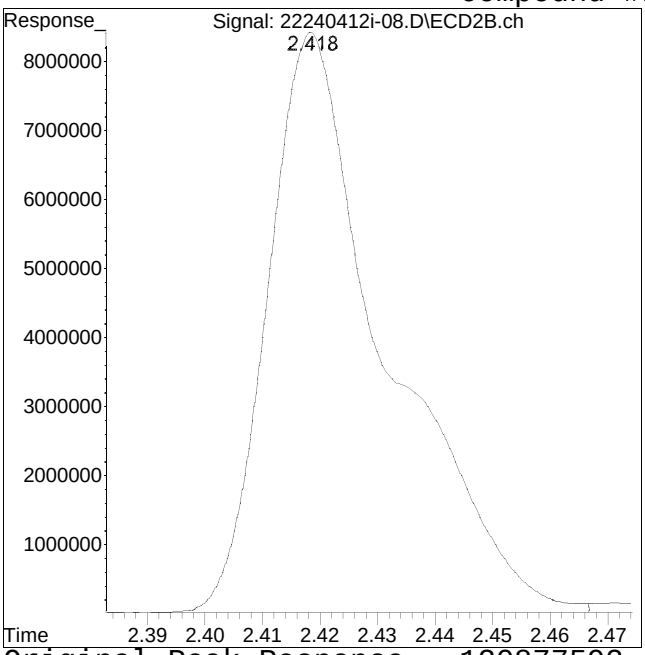


Original Peak Response = 644954677 Manual Peak Response = 646119107 M4
M4 = Poor automated baseline construction.

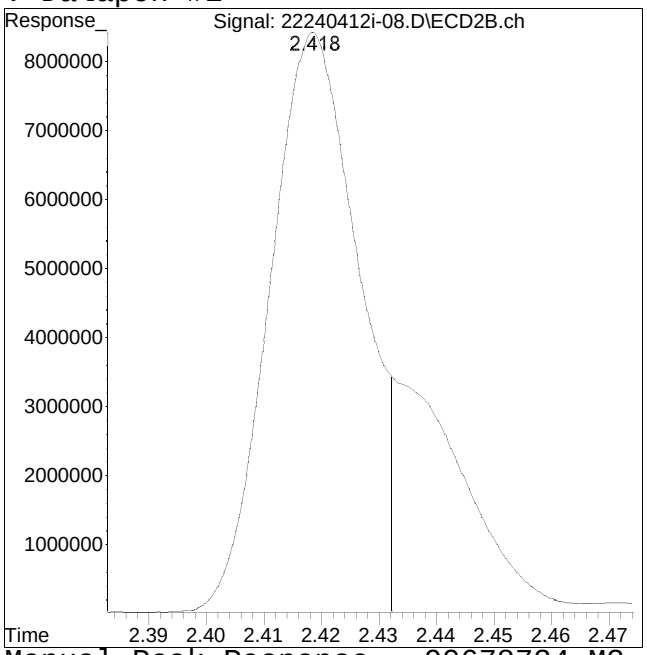
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #15: Dalapon #2



Original Peak Response = 120877592



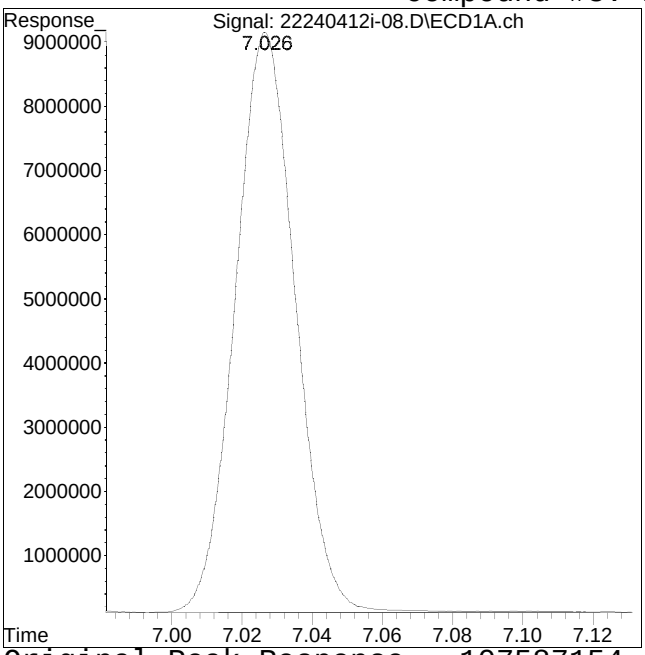
Manual Peak Response = 90678734 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

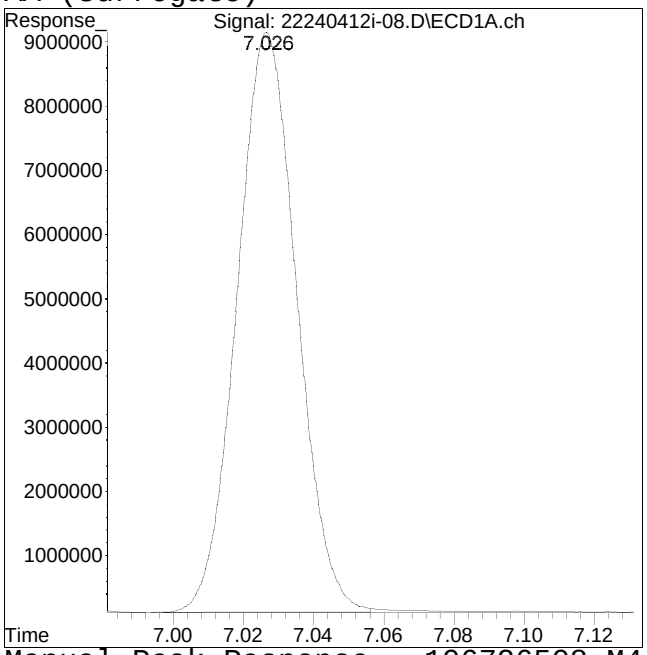
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #3: DCAA (surrogate)



Original Peak Response = 107587154

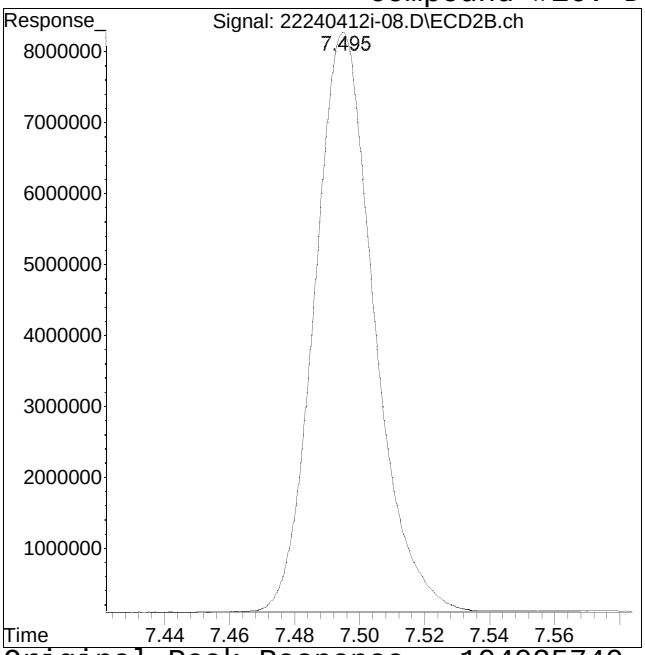


Manual Peak Response = 106726508 M4
M4 = Poor automated baseline construction.

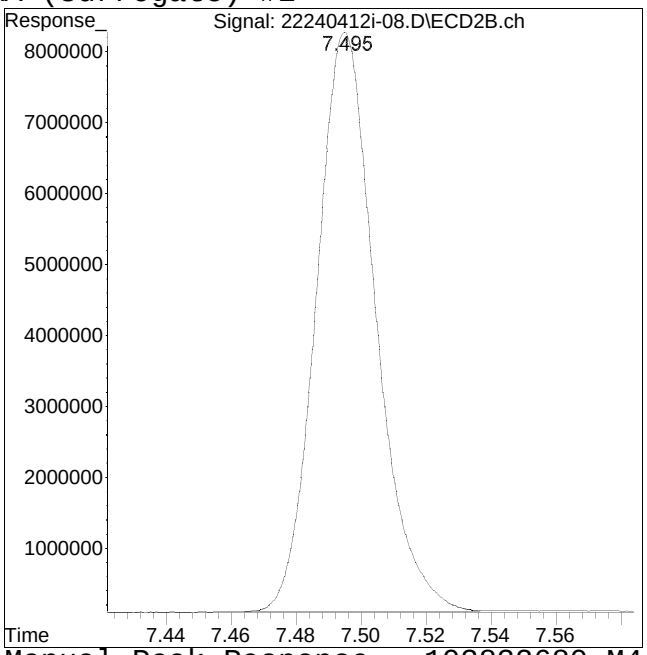
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 104025740

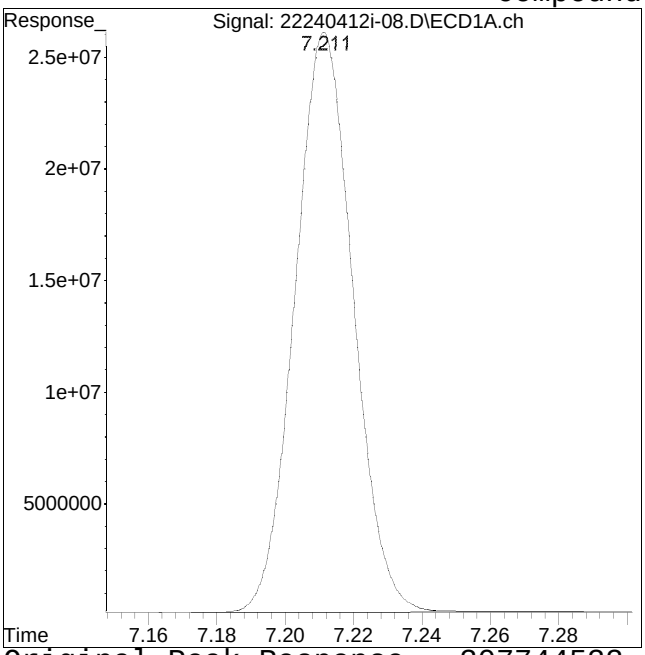


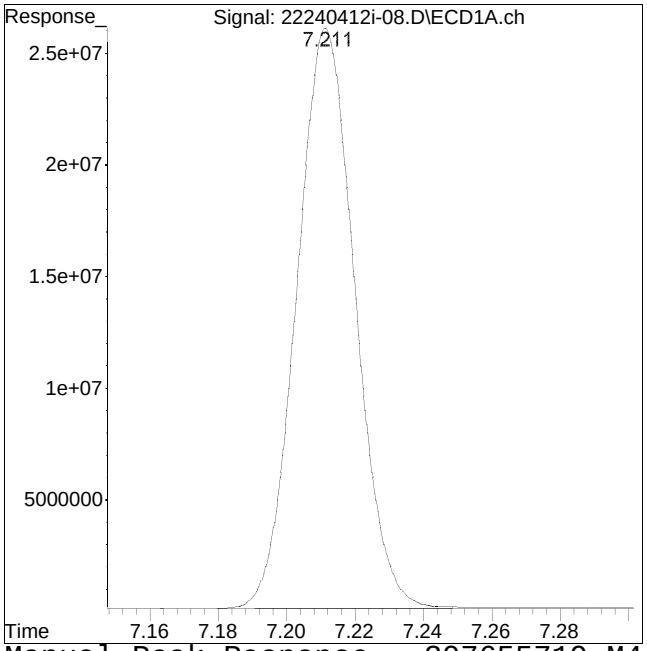
Manual Peak Response = 103832680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #4: Dicamba



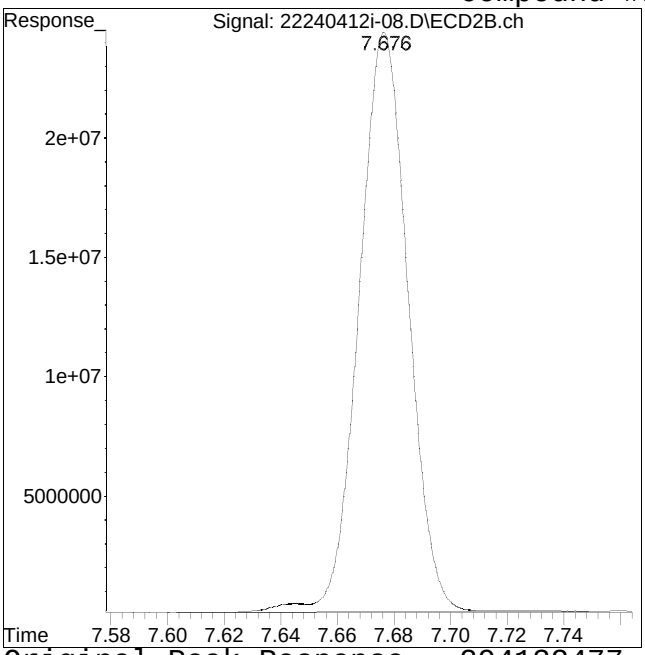


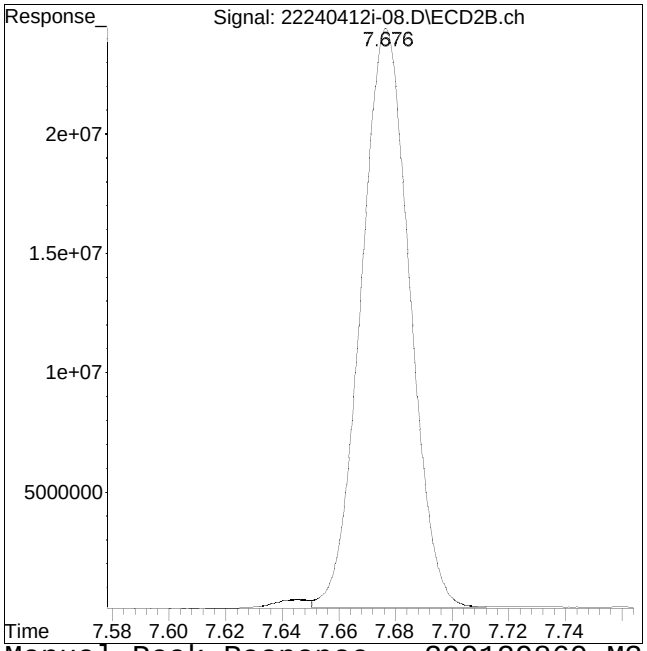
Original Peak Response = 307744533 Manual Peak Response = 307655719 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #17: Dicamba #2



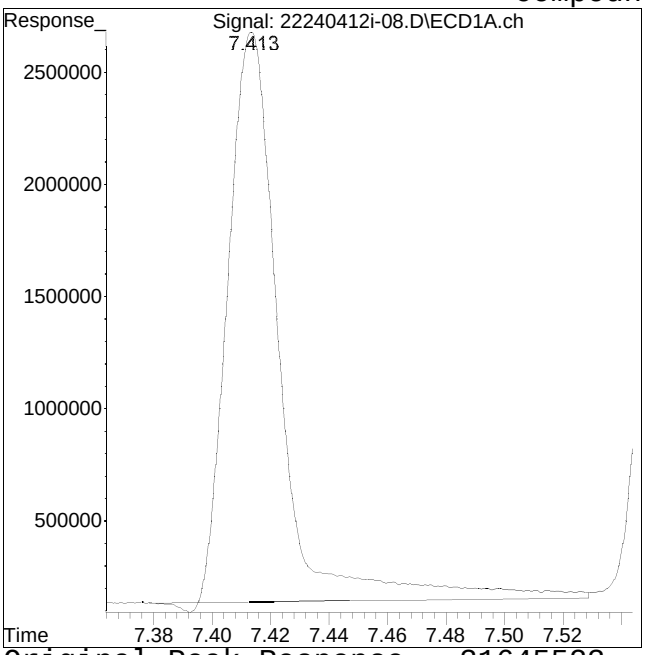


Original Peak Response = 294132477 Manual Peak Response = 290129860 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

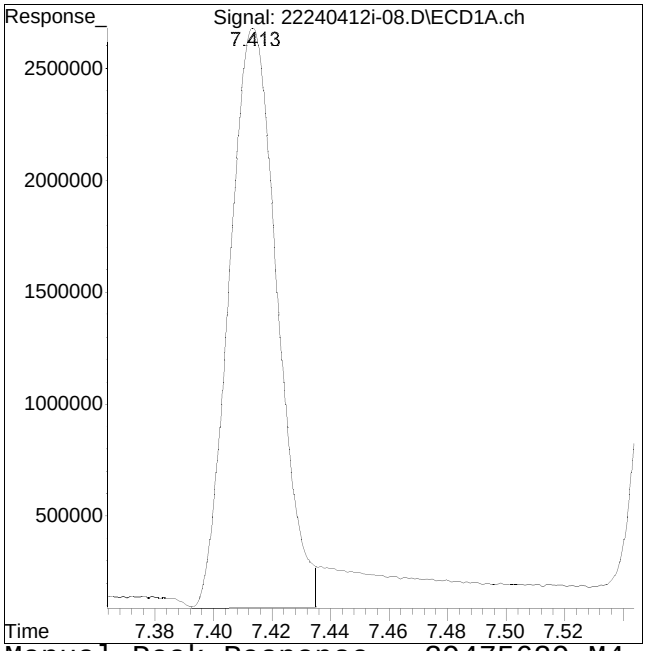
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #5: MCPP



Original Peak Response = 31645523



Manual Peak Response = 29475629 M4

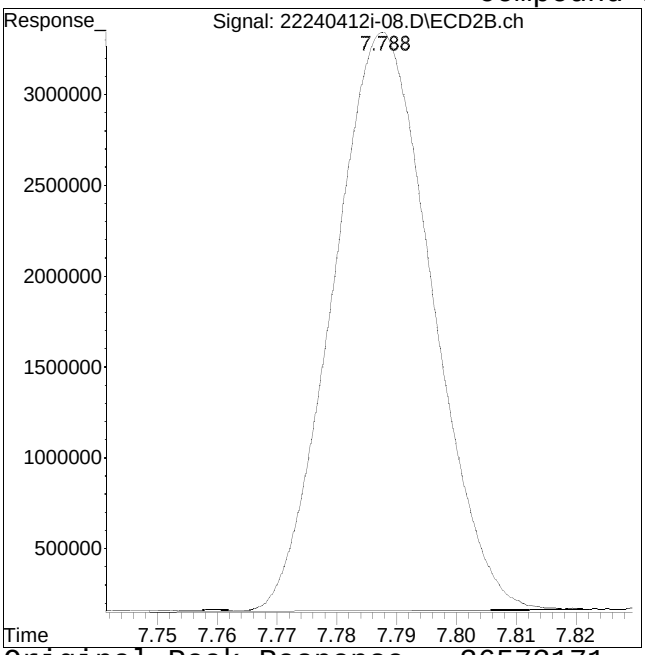
M4 = Poor automated baseline construction.

Manual Integration Report

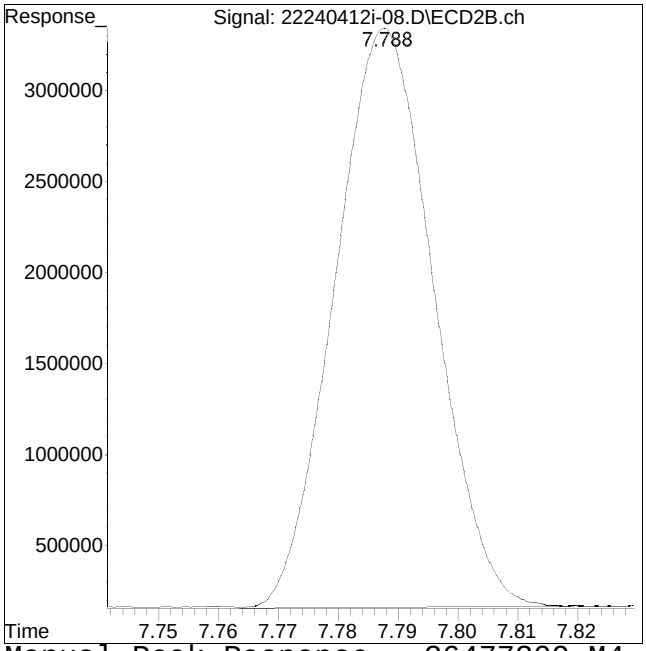
Data Path : I:\PEST\Pest22\2024\240412Q
Data File : 22240412i-08.D
Date Inj'd : 4/12/2024 8:26 am
Sample : cicv,42e,,pp11458 L0.2/20I

Method : Herb22_2024_04_12_mgL_IC
Operator : pest22:peg
Instrument : Pest22
IQuant Date : 4/12/2024 9:48 am

Compound #18: MCPP #2



Original Peak Response = 36573171



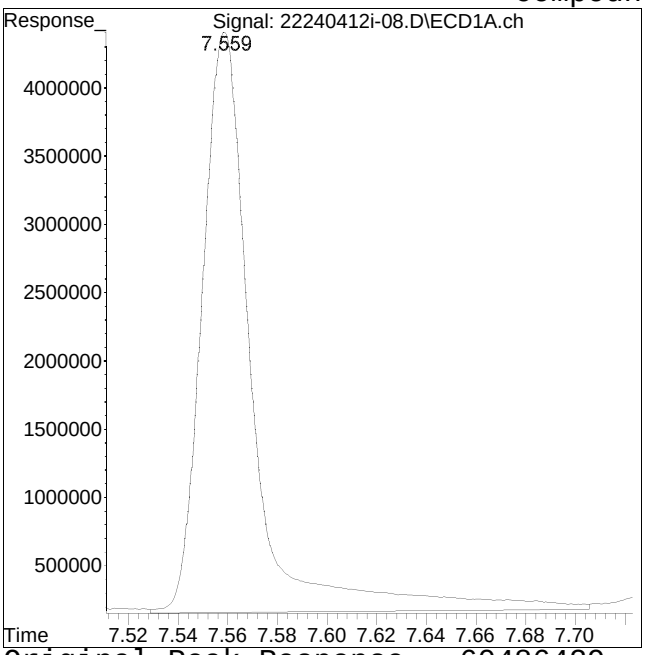
Manual Peak Response = 36477309 M4

M4 = Poor automated baseline construction.

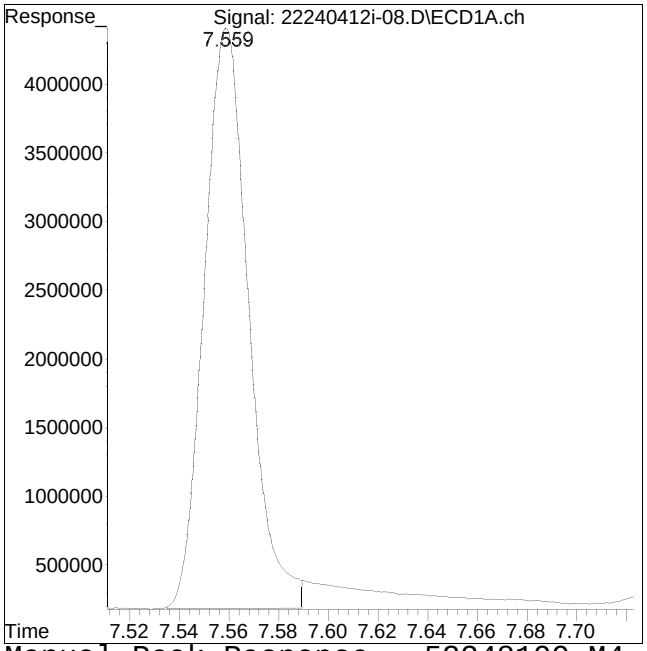
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #6: MCPA



Original Peak Response = 60486429



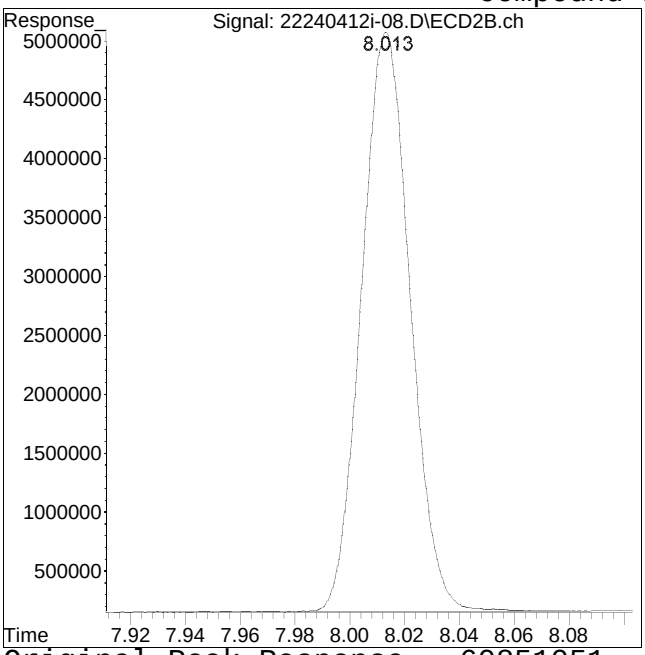
Manual Peak Response = 52248199 M4

M4 = Poor automated baseline construction.

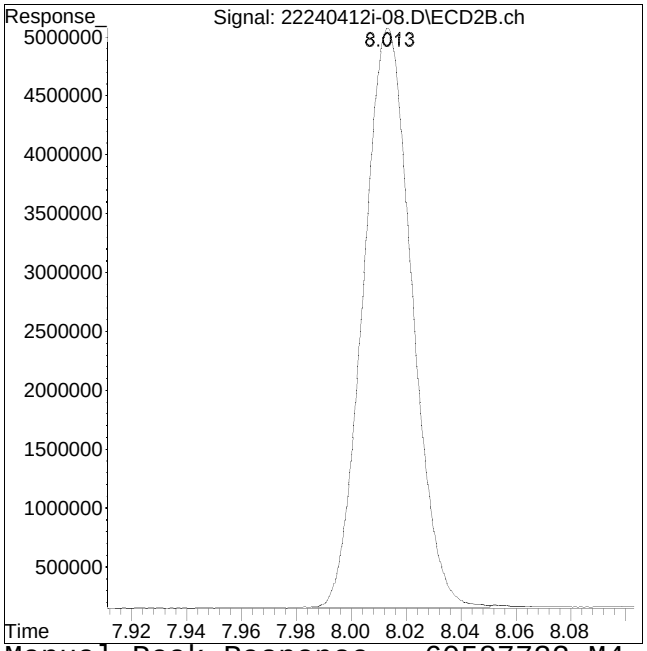
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #19: MCPA #2



Original Peak Response = 60851051



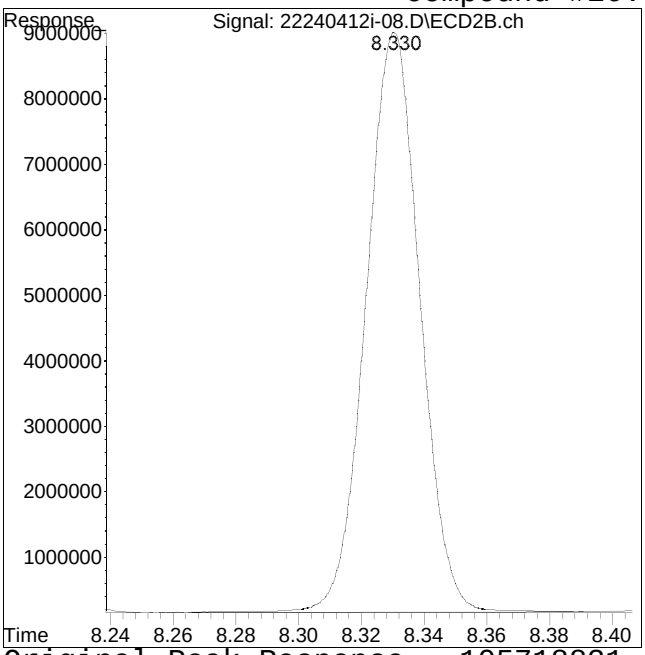
Manual Peak Response = 60587732 M4

M4 = Poor automated baseline construction.

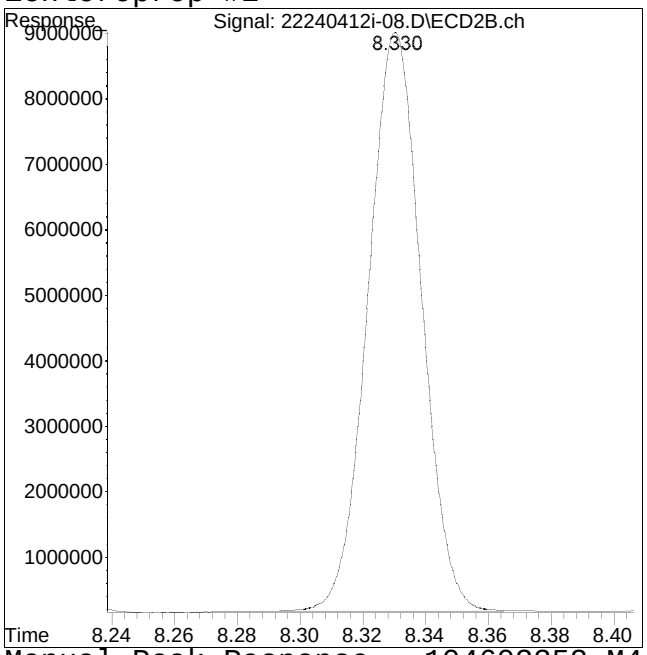
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #20: Dichloroprop #2



Original Peak Response = 105718831



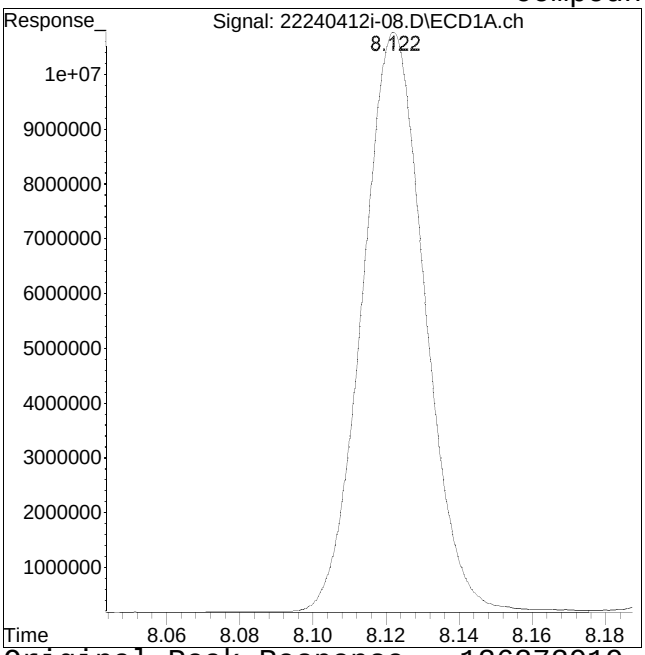
Manual Peak Response = 104603352 M4

M4 = Poor automated baseline construction.

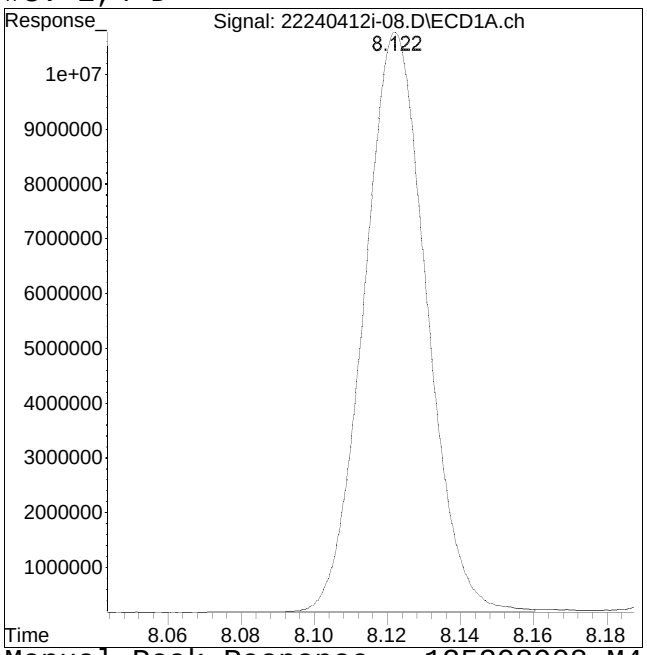
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #8: 2,4-D



Original Peak Response = 126272919

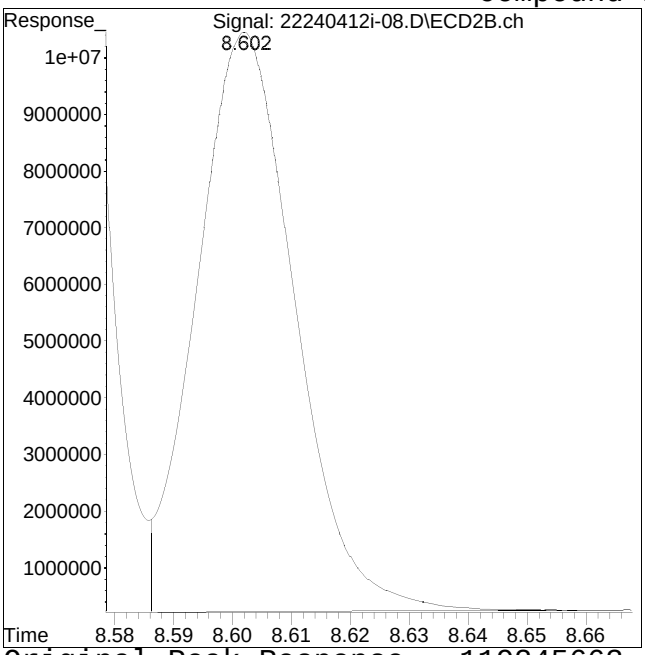


Manual Peak Response = 125308908 M4
M4 = Poor automated baseline construction.

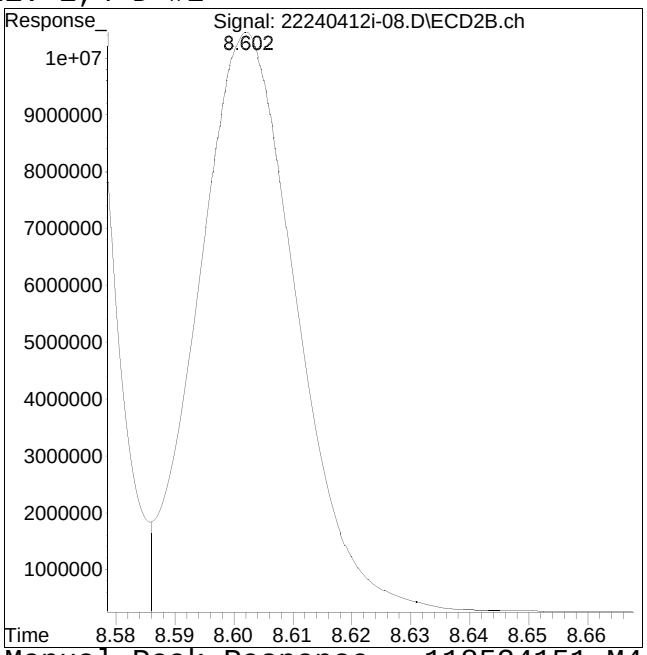
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #21: 2,4-D #2



Original Peak Response = 119245663

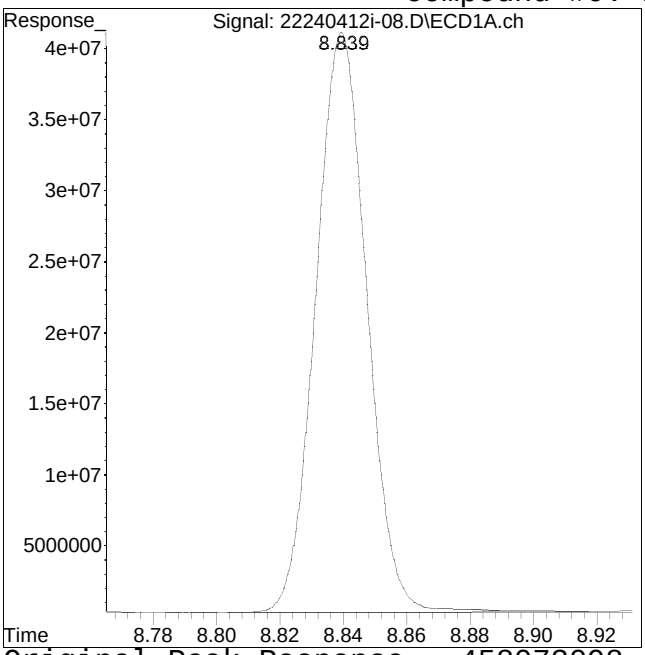


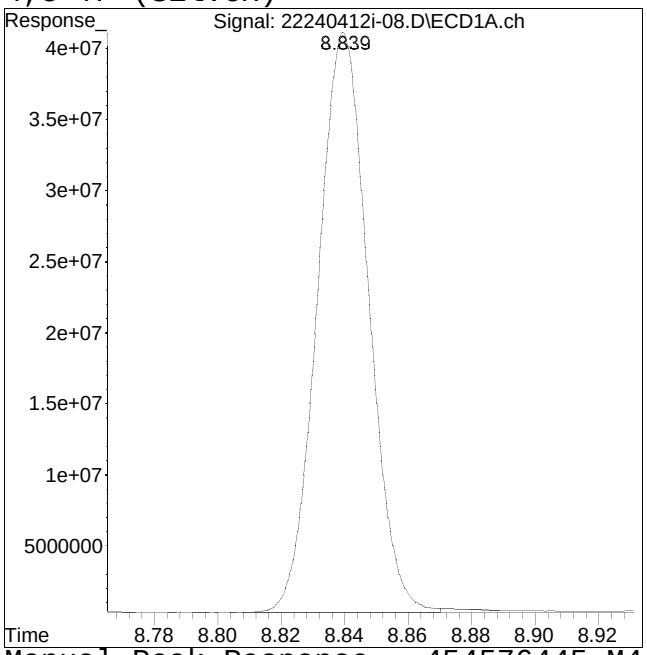
Manual Peak Response = 118524151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #9: 2,4,5-TP (Silvex)



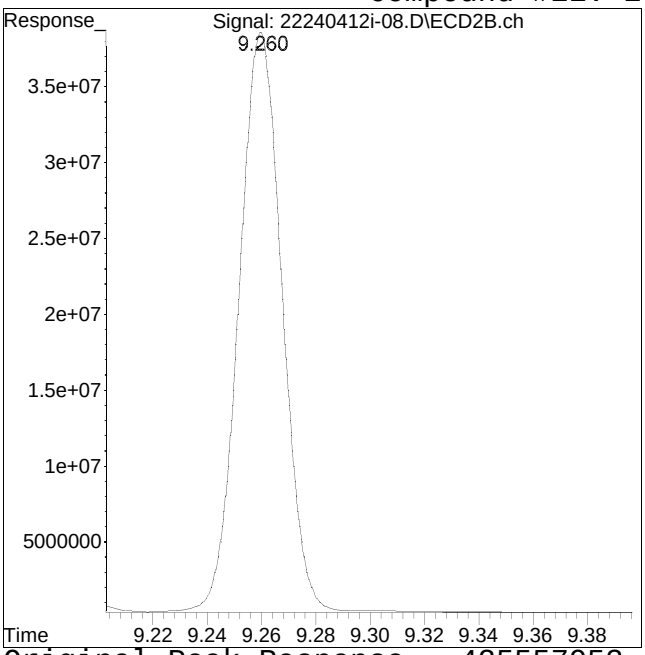


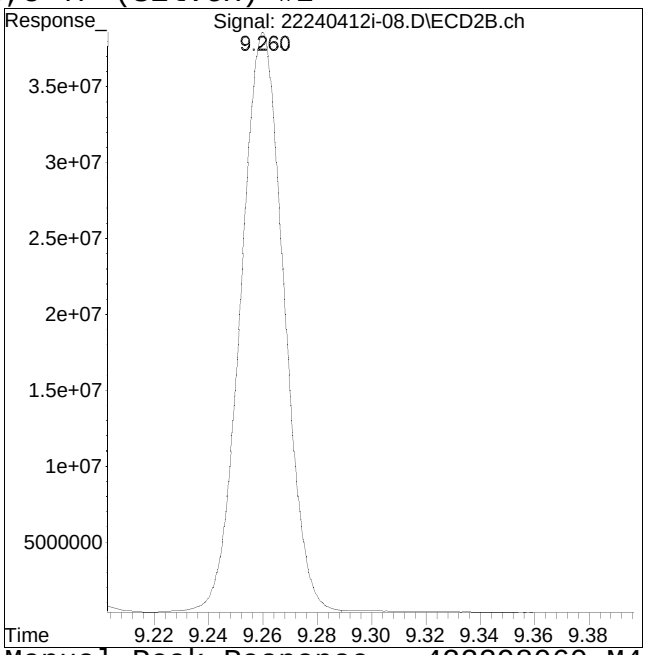
Original Peak Response = 458073098 Manual Peak Response = 454576445 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #22: 2,4,5-TP (Silvex) #2



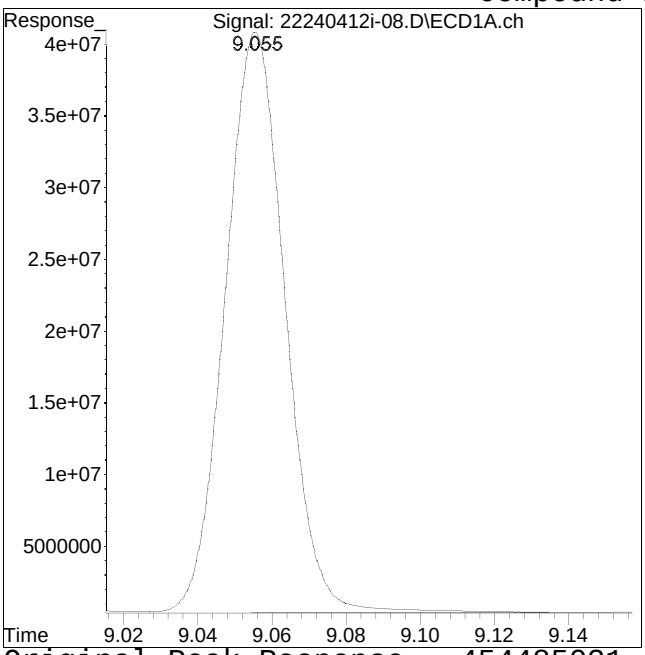


Original Peak Response = 425557953 Manual Peak Response = 422398060 M4
M4 = Poor automated baseline construction.

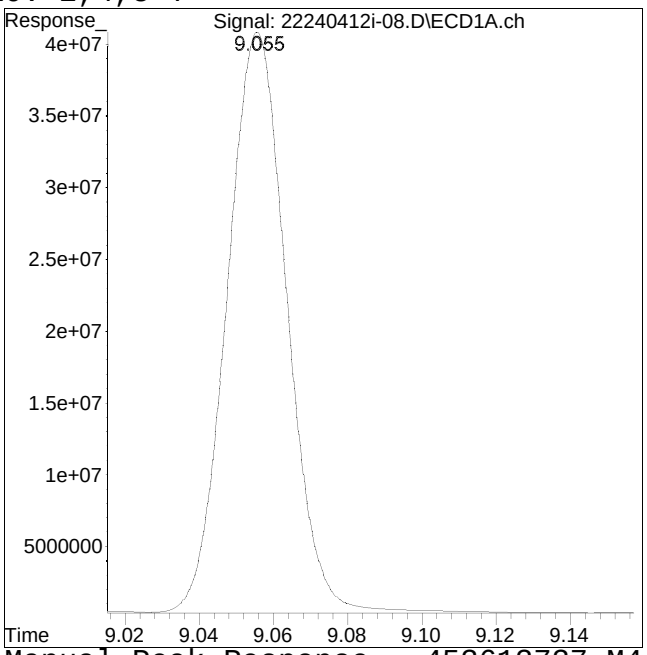
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #10: 2,4,5-T



Original Peak Response = 454485031



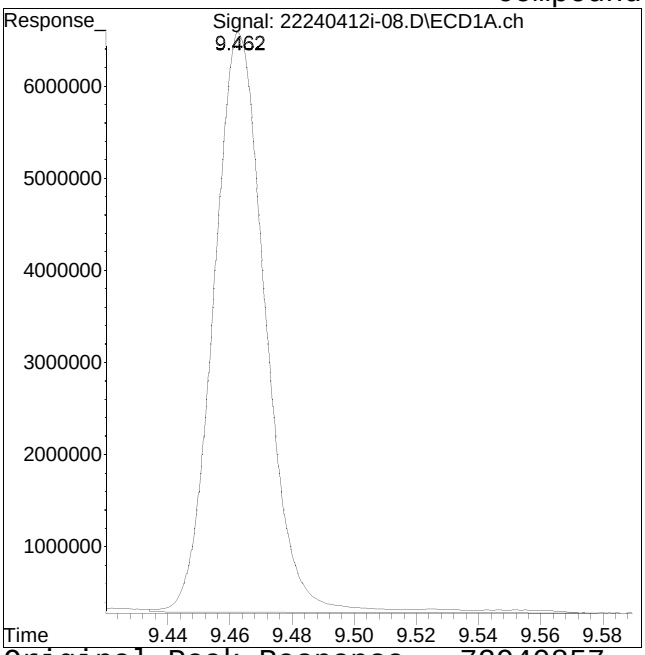
Manual Peak Response = 453613737 M4

M4 = Poor automated baseline construction.

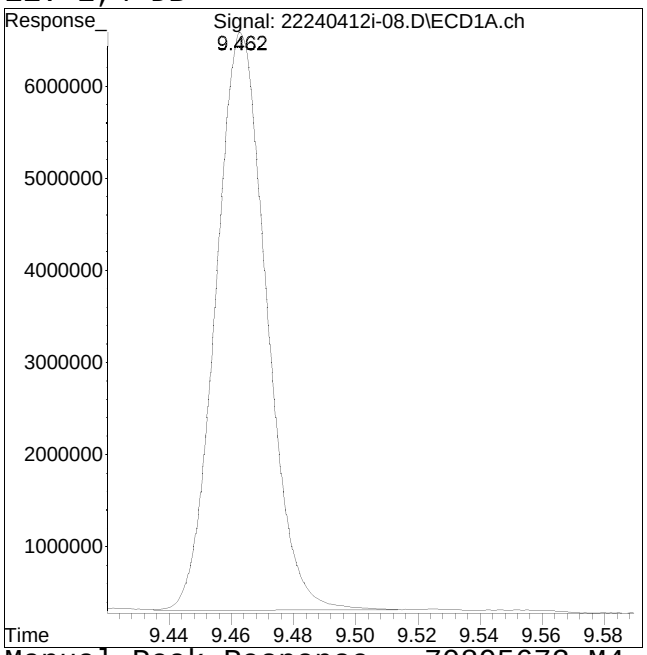
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #11: 2,4-DB



Original Peak Response = 72940857



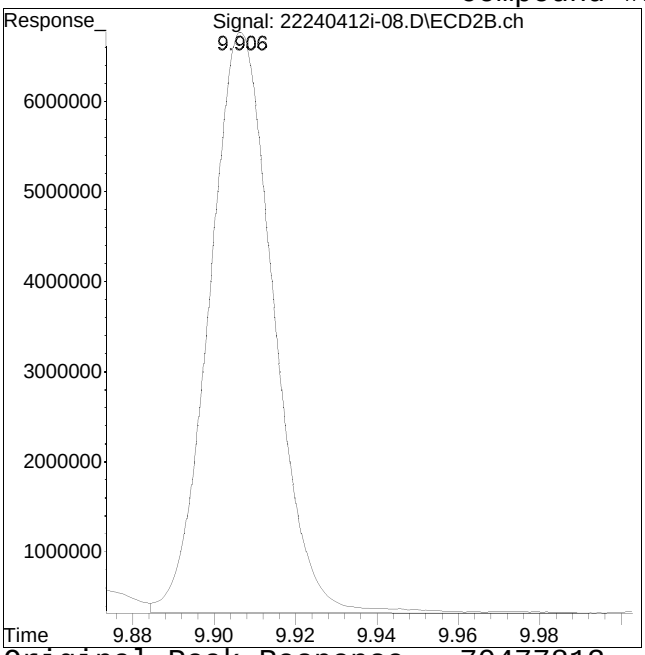
Manual Peak Response = 70895673 M4

M4 = Poor automated baseline construction.

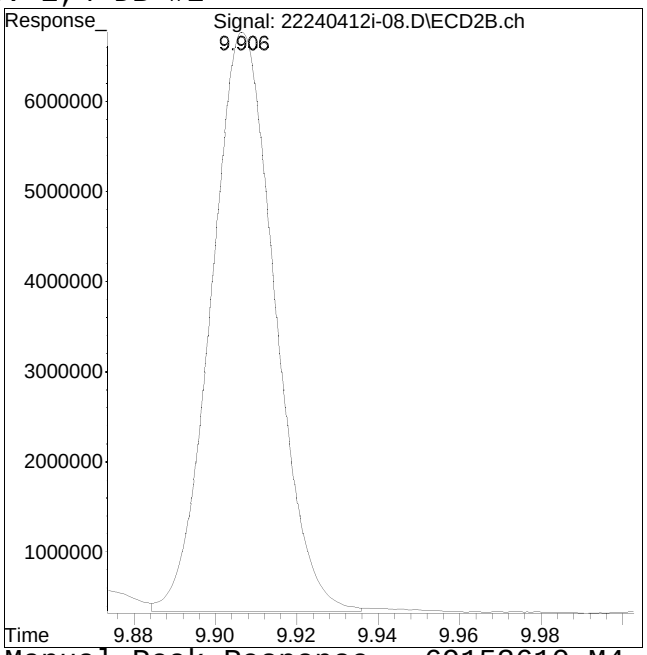
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #24: 2,4-DB #2



Original Peak Response = 70477813



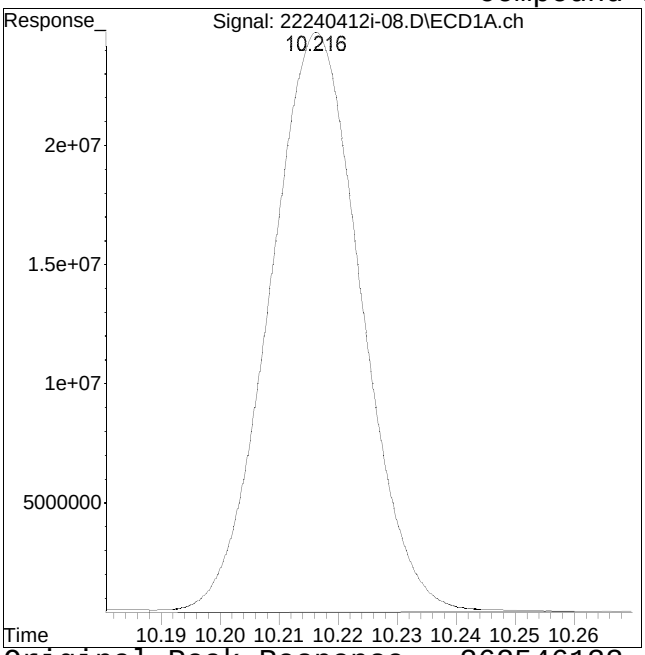
Manual Peak Response = 69153610 M4

M4 = Poor automated baseline construction.

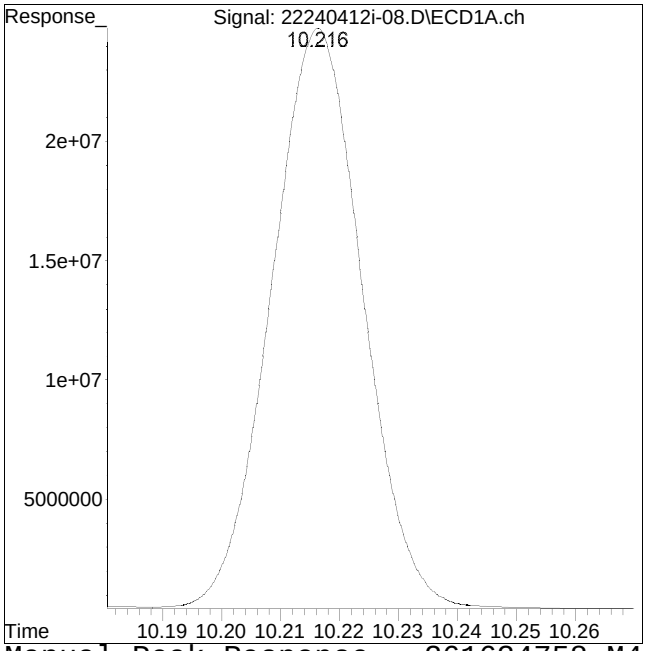
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #12: Dinoseb



Original Peak Response = 262546133



Manual Peak Response = 261634758 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 13:07		
Lab File ID	: 22240619a-18	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-2	**Init. Calib. Times**	: 06:35	08:08	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	119	0
Dalapon	0.211	0.216	-	-2.4	15	116	0
DCAA (surrogate)	0.206	0.21	-	-1.9	15	113	0
Dicamba	0.589	0.604	-	-2.5	15	113	0
MCPP	0.00052	0.00086	-	-65.4*	15	183	0
MCPA	0.00097	0.00147	-	-51.5*	15	169	0
Dichloroprop	0.193	0.201	-	-4.1	15	114	0
2,4-D	0.24	0.258	-	-7.5	15	119	-.02
2,4,5-TP (Silvex)	0.868	0.901	-	-3.8	15	114	-.01
2,4,5-T	0.853	1.072	-	-25.7*	15	140	-.02
2,4-DB	0.132	0.135	-	-2.3	15	112	-.02
Dinoseb	0.493	0.92	-	-86.6*	15	207	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 13:07		
Lab File ID	: 22240619a-18	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-2	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	131	0
Dalapon	0.197	0.202	-	-2.5	15	127	0
DCAA (surrogate)	0.203	0.207	-	-2	15	125	0
Dicamba	0.594	0.593	-	0.2	15	123	0
MCPP	0.00074	0.00061	-	17.6*	15	104	0
MCPA	0.00124	0.00116	-	6.5	15	116	0
Dichloroprop	0.192	0.197	-	-2.6	15	125	0
2,4-D	0.237	0.274	-	-15.6*	15	144	0
2,4,5-TP (Silvex)	0.856	0.953	-	-11.3	15	137	0
2,4,5-T	0.831	0.836	-	-0.6	15	124	0
2,4-DB	0.141	0.145	-	-2.8	15	128	0
Dinoseb	0.491	0.604	-	-23*	15	153	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 18:04		
Lab File ID	: 22240619a-34	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-3	**Init. Calib. Times**	: 06:35	08:08	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	112	0
Dalapon	0.211	0.221	-	-4.7	15	112	0
DCAA (surrogate)	0.206	0.209	-	-1.5	15	106	0
Dicamba	0.589	0.616	-	-4.6	15	109	0
MCPP	0.00052	0.00085	-	-63.5*	15	171	0
MCPA	0.00097	0.00148	-	-52.6*	15	160	0
Dichloroprop	0.193	0.201	-	-4.1	15	108	0
2,4-D	0.24	0.255	-	-6.3	15	111	-.02
2,4,5-TP (Silvex)	0.868	0.893	-	-2.9	15	106	-.01
2,4,5-T	0.853	1.025	-	-20.2*	15	126	-.02
2,4-DB	0.132	0.129	-	2.3	15	102	-.03
Dinoseb	0.493	0.868	-	-76.1*	15	184	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 18:04		
Lab File ID	: 22240619a-34	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-3	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	124	0
Dalapon	0.197	0.212	-	-7.6	15	127	0
DCAA (surrogate)	0.203	0.208	-	-2.5	15	119	0
Dicamba	0.594	0.599	-	-0.8	15	118	0
MCPP	0.00074	0.00059	-	20.3*	15	96	0
MCPA	0.00124	0.00115	-	7.3	15	109	0
Dichloroprop	0.192	0.198	-	-3.1	15	119	0
2,4-D	0.237	0.283	-	-19.4*	15	141	0
2,4,5-TP (Silvex)	0.856	0.947	-	-10.6	15	129	0
2,4,5-T	0.831	0.829	-	0.2	15	117	0
2,4-DB	0.141	0.141	-	0	15	119	-.01
Dinoseb	0.491	0.588	-	-19.8*	15	142	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 21:29		
Lab File ID	: 22240619a-45	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-4	**Init. Calib. Times**	: 06:35	08:08	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	118	0
Dalapon	0.211	0.225	-	-6.6	15	119	0
DCAA (surrogate)	0.206	0.209	-	-1.5	15	112	0
Dicamba	0.589	0.619	-	-5.1	15	115	0
MCPP	0.00052	0.00086	-	-65.4*	15	182	0
MCPA	0.00097	0.00143	-	-47.4*	15	163	0
Dichloroprop	0.193	0.2	-	-3.6	15	112	0
2,4-D	0.24	0.253	-	-5.4	15	116	-.02
2,4,5-TP (Silvex)	0.868	0.889	-	-2.4	15	111	-.02
2,4,5-T	0.853	1.002	-	-17.5*	15	129	-.02
2,4-DB	0.132	0.13	-	1.5	15	108	-.02
Dinoseb	0.493	0.8	-	-62.3*	15	178	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 21:29		
Lab File ID	: 22240619a-45	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-4	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	131	0
Dalapon	0.197	0.205	-	-4.1	15	130	0
DCAA (surrogate)	0.203	0.205	-	-1	15	124	0
Dicamba	0.594	0.601	-	-1.2	15	125	0
MCPP	0.00074	0.00059	-	20.3*	15	101	0
MCPA	0.00124	0.00114	-	8.1	15	113	0
Dichloroprop	0.192	0.197	-	-2.6	15	125	0
2,4-D	0.237	0.277	-	-16.9*	15	145	0
2,4,5-TP (Silvex)	0.856	0.941	-	-9.9	15	135	0
2,4,5-T	0.831	0.824	-	0.8	15	123	0
2,4-DB	0.141	0.139	-	1.4	15	123	0
Dinoseb	0.491	0.587	-	-19.6*	15	149	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/20/24 05:13		
Lab File ID	: 22240619a-70	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-6	**Init. Calib. Times**	: 06:35	08:08	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	124	0
Dalapon	0.211	0.212	-	-0.5	15	119	0
DCAA (surrogate)	0.206	0.212	-	-2.9	15	119	0
Dicamba	0.589	0.62	-	-5.3	15	121	0
MCPP	0.00052	0.0009	-	-73.1*	15	201	0
MCPA	0.00097	0.00149	-	-53.6*	15	178	0
Dichloroprop	0.193	0.2	-	-3.6	15	119	0
2,4-D	0.24	0.262	-	-9.2	15	126	-.03
2,4,5-TP (Silvex)	0.868	0.909	-	-4.7	15	120	-.02
2,4,5-T	0.853	0.99	-	-16.1*	15	135	-.03
2,4-DB	0.132	0.129	-	2.3	15	112	-.04
Dinoseb	0.493	0.715	-	-45*	15	168	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/20/24 05:13		
Lab File ID	: 22240619a-70	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-6	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	142	0
Dalapon	0.197	0.196	-	0.5	15	134	0
DCAA (surrogate)	0.203	0.204	-	-0.5	15	134	0
Dicamba	0.594	0.595	-	-0.2	15	134	0
MCPP	0.00074	0.00061	-	17.6*	15	113	0
MCPA	0.00124	0.00115	-	7.3	15	124	0
Dichloroprop	0.192	0.197	-	-2.6	15	136	0
2,4-D	0.237	0.258	-	-8.9	15	147	-.01
2,4,5-TP (Silvex)	0.856	0.941	-	-9.9	15	146	0
2,4,5-T	0.831	0.833	-	-0.2	15	134	-.01
2,4-DB	0.141	0.147	-	-4.3	15	141	-.01
Dinoseb	0.491	0.594	-	-21*	15	163	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/20/24 15:37		
Lab File ID	: 22240619a-87	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-7	**Init. Calib. Times**	: 06:35	08:08	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	84	0
Dalapon	0.211	0.275	-	-30.3*	15	105	0
DCAA (surrogate)	0.206	0.229	-	-11.2	15	88	0
Dicamba	0.589	0.711	-	-20.7*	15	94	0
MCPP	0.00052	0.00112	-	-115.4*	15	169	0
MCPA	0.00097	0.00172	-	-77.3*	15	140	0
Dichloroprop	0.193	0.212	-	-9.8	15	85	0
2,4-D	0.24	0.25	-	-4.2	15	82	-.05
2,4,5-TP (Silvex)	0.868	0.936	-	-7.8	15	84	-.03
2,4,5-T	0.853	1.006	-	-17.9*	15	93	-.03
2,4-DB	0.132	0.124	-	6.1	15	74	-.04
Dinoseb	0.493	0.727	-	-47.5*	15	116	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/20/24 15:37		
Lab File ID	: 22240619a-87	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-7	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	100	0
Dalapon	0.197	0.259	-	-31.5*	15	124	0
DCAA (surrogate)	0.203	0.222	-	-9.4	15	102	0
Dicamba	0.594	0.674	-	-13.5	15	106	0
MCPP	0.00074	0.00064	-	13.5	15	83	0
MCPA	0.00124	0.00127	-	-2.4	15	96	0
Dichloroprop	0.192	0.207	-	-7.8	15	100	0
2,4-D	0.237	0.286	-	-20.7*	15	114	-.01
2,4,5-TP (Silvex)	0.856	0.926	-	-8.2	15	101	0
2,4,5-T	0.831	0.84	-	-1.1	15	95	-.01
2,4-DB	0.141	0.128	-	9.2	15	87	-.01
Dinoseb	0.491	0.603	-	-22.8*	15	116	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample   : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	119	0.00
2	t	Dalapon		0.211	0.216	-2.4	116	0.00
3	s	DCAA (surrogate)		0.206	0.210	-1.9	113	0.00
4	t	Dicamba		0.589	0.604	-2.5	113	0.00
5	t	MCPP		0.00052	0.00086	-65.4#	183#	0.00
6	t	MCPA		0.00097	0.00147	-51.5#	169#	0.00
7	t	Dichloroprop		0.193	0.201	-4.1	114	0.00
8	t	2,4-D		0.240	0.258	-7.5	119	-0.02
9	t	2,4,5-TP (Silvex)		0.868	0.901	-3.8	114	-0.01
10	t	2,4,5-T		0.853	1.072	-25.7#	140	-0.02
11	t	2,4-DB		0.132	0.135	-2.3	112	-0.02
12	t	Dinoseb		0.493	0.920	-86.6#	207#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	131	0.00
2	t	Dalapon		0.197	0.202	-2.5	127	0.00
3	s	DCAA (surrogate)		0.203	0.207	-2.0	125	0.00
4	t	Dicamba		0.594	0.593	0.2	123	0.00
5	t	MCPP		0.00074	0.00061	17.6#	104	0.00
6	t	MCPA		0.00124	0.00116	6.5	116	0.00
7	t	Dichloroprop		0.192	0.197	-2.6	125	0.00
8	t	2,4-D		0.237	0.274	-15.6#	144	0.00
9	t	2,4,5-TP (Silvex)		0.856	0.953	-11.3	137	0.00
10	t	2,4,5-T		0.831	0.836	-0.6	124	0.00
11	t	2,4-DB		0.141	0.145	-2.8	128	0.00
12	t	Dinoseb		0.491	0.604	-23.0#	153#	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample   : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

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* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
		Internal Standards							
1)	i	4,4'-DBOB	8.531	8.527	883.3E6	891.3E6	0.250	0.250M4	
		System Monitoring Compounds							
3)	s	DCAA (surrog	6.988	7.457	139.4E6	138.8E6	0.192M4	0.192	
		Spiked Amount	0.500	Range 30 - 150		Recovery =	38.40%	38.40%	
		Target Compounds							
2)	t	Dalapon	2.385	2.384	139.2E6	131.1E6	0.186M3	0.186	
4)	t	Dicamba	7.171	7.638	401.2E6	397.2E6	0.193M4	0.188	
5)	t	MCPP	7.371	7.749	56961548	40975990	30.940M3	15.616	D
6)	t	MCPA	7.518	7.976	96432910	76885792	28.234M4	17.395M3	D
7)	t	Dichloroprop	7.875	8.294	133.6E6	132.0E6	0.196M4	0.193	
8)	t	2,4-D	8.120f	8.579	171.4E6	183.8E6	0.202	0.217M3	
9)	t	2,4,5-TP (Si	8.818	9.232	605.0E6	645.5E6	0.197	0.211	
10)	t	2,4,5-T	9.056f	9.527	719.8E6	566.1E6	0.239M3	0.191	
11)	t	2,4-DB	9.469f	9.889	91311241	99091554	0.196	0.198	
12)	t	Dinoseb	10.185	10.102	617.3E6	409.4E6	0.355	0.234	D
		SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

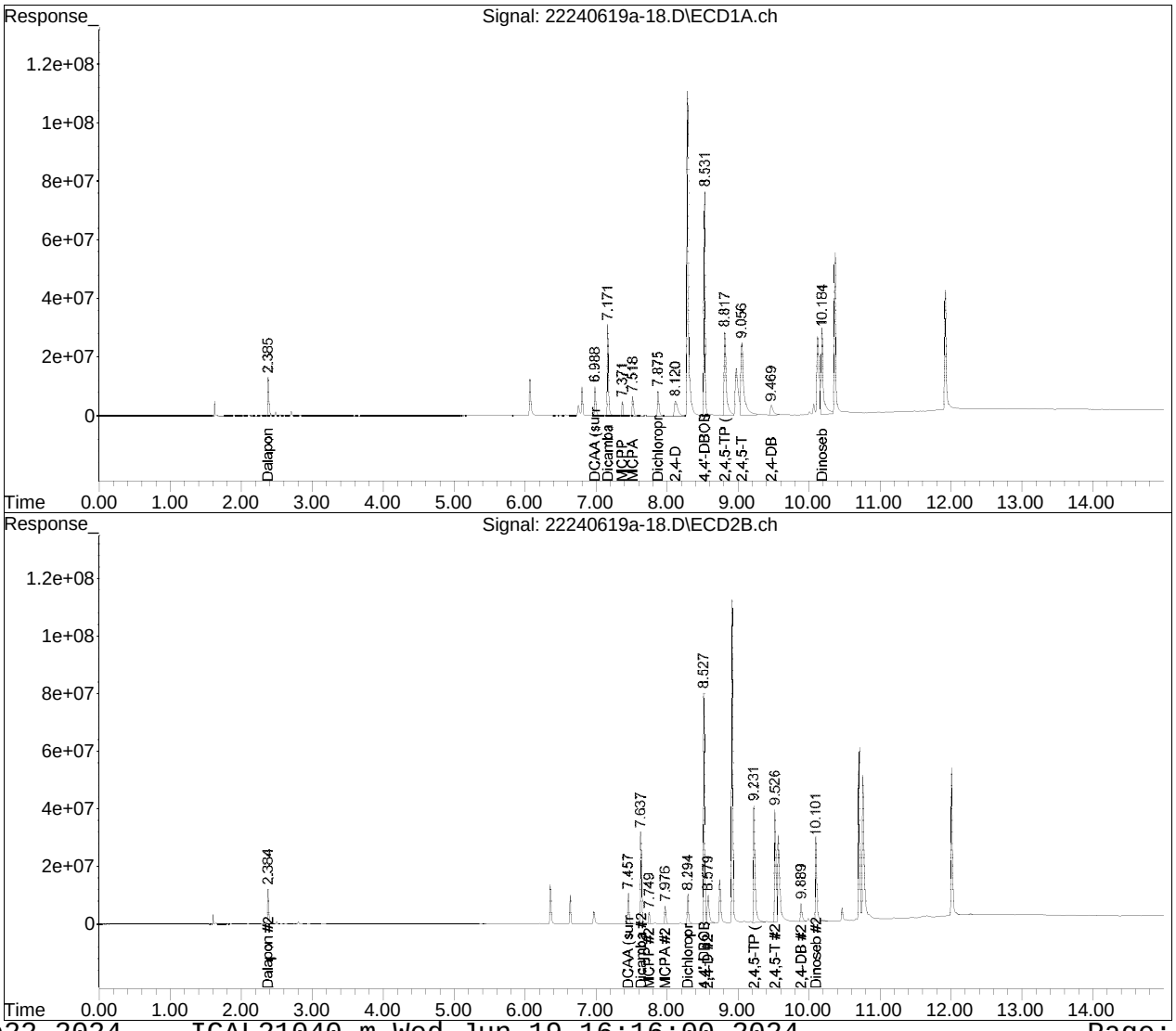
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

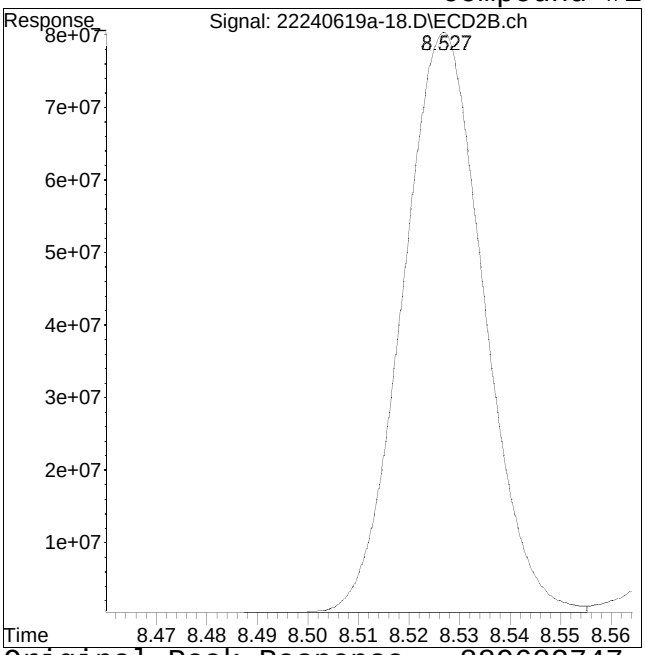
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

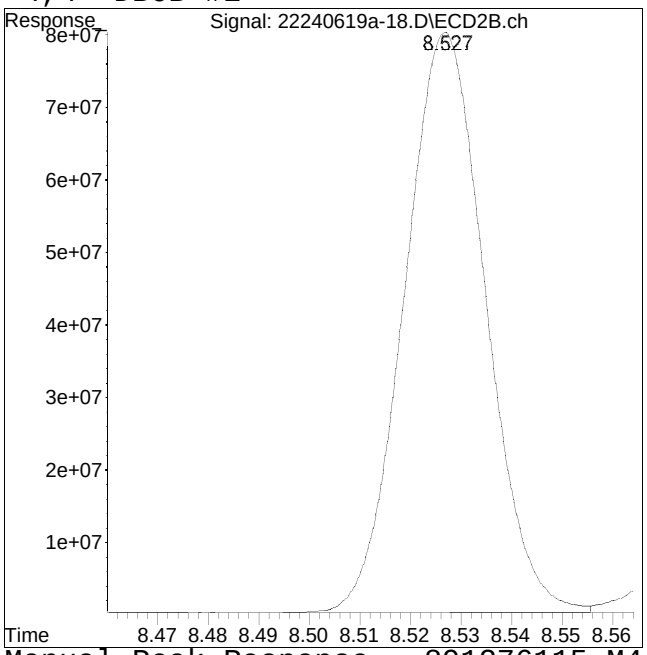


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #14: 4,4'-DBOB #2



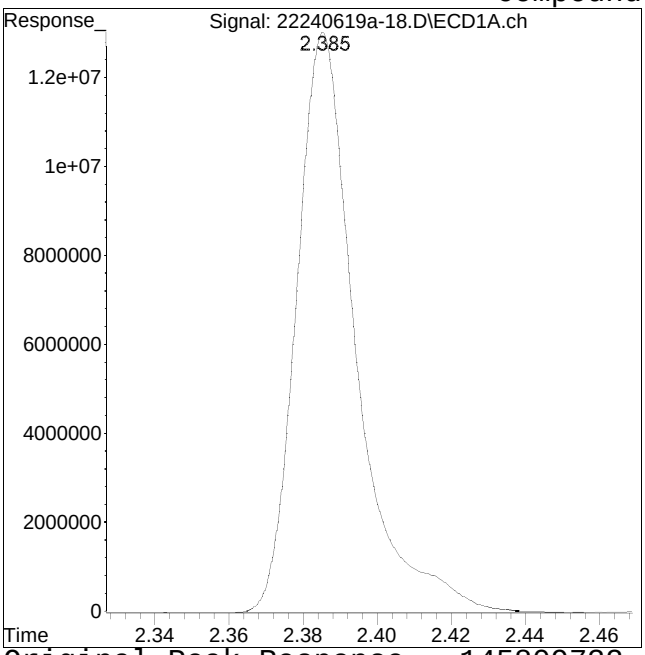


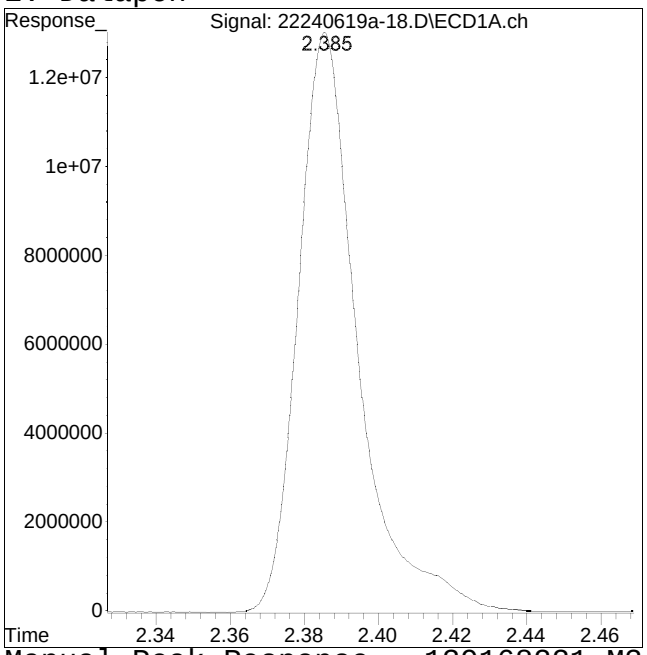
Original Peak Response = 889622747 Manual Peak Response = 891276115 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #2: Dalapon



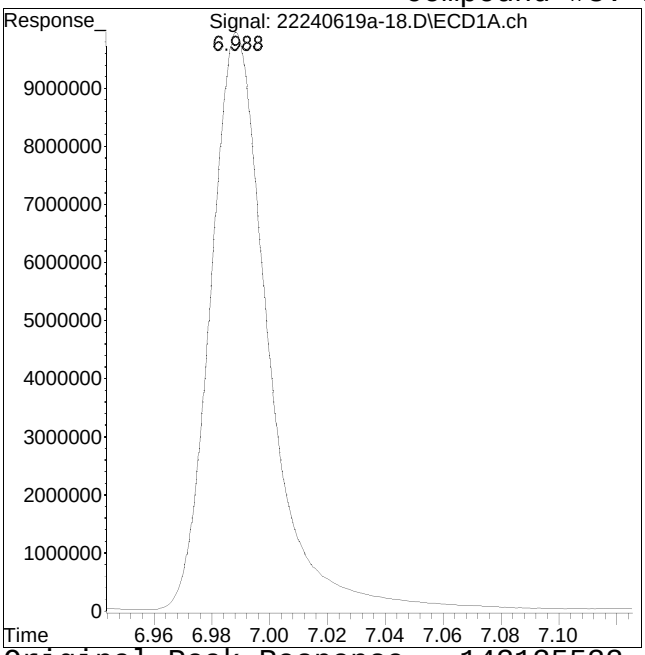


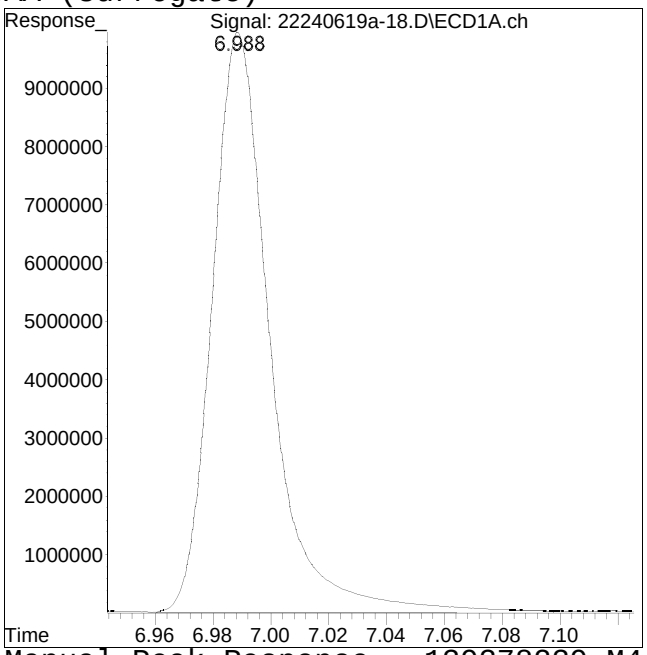
Original Peak Response = 145809732 Manual Peak Response = 139168221 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #3: DCAA (surrogate)



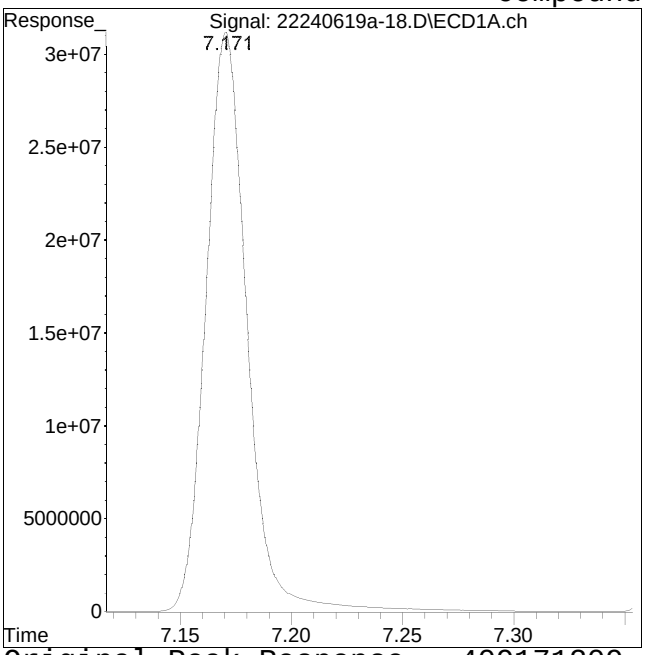


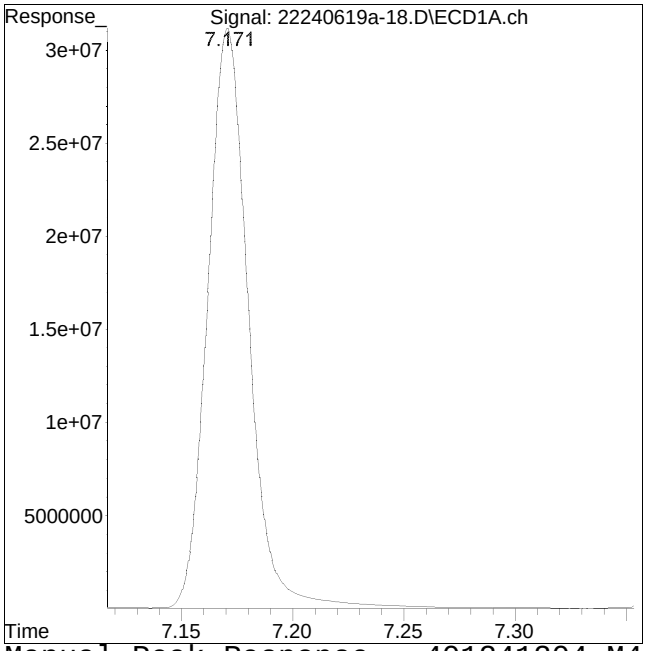
Original Peak Response = 143135533 Manual Peak Response = 139378239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #4: Dicamba



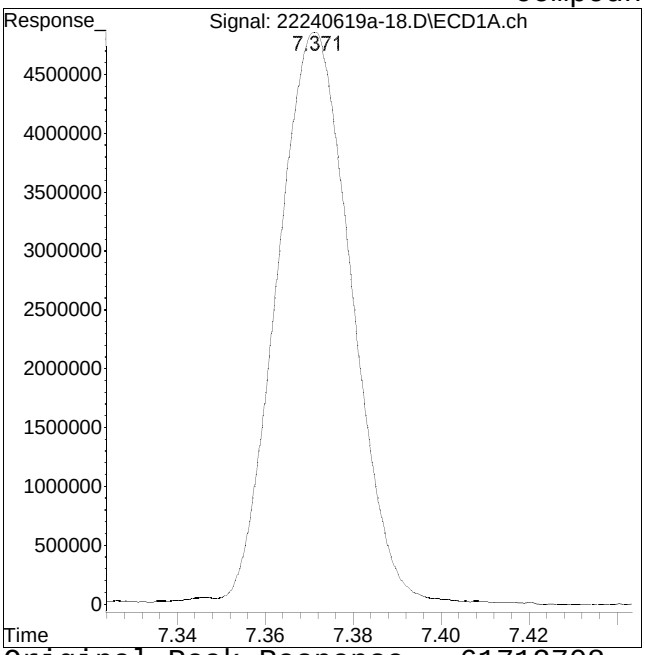


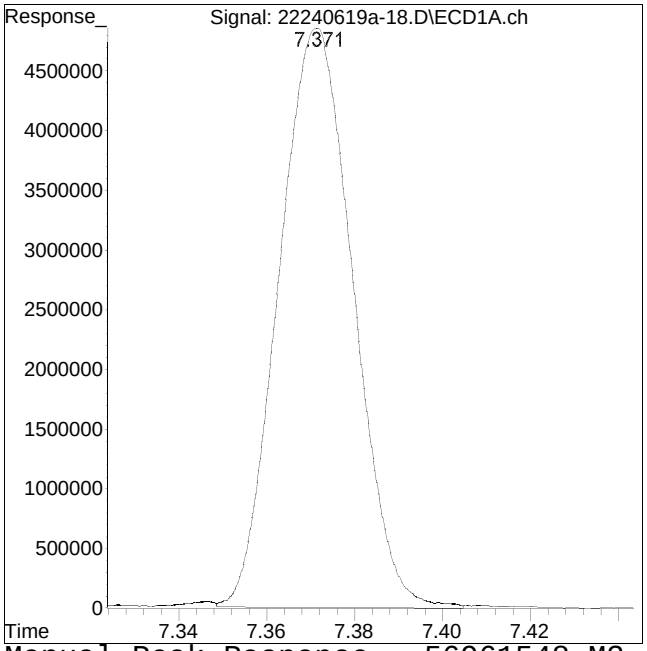
Original Peak Response = 409171209 Manual Peak Response = 401241204 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #5: MCPP



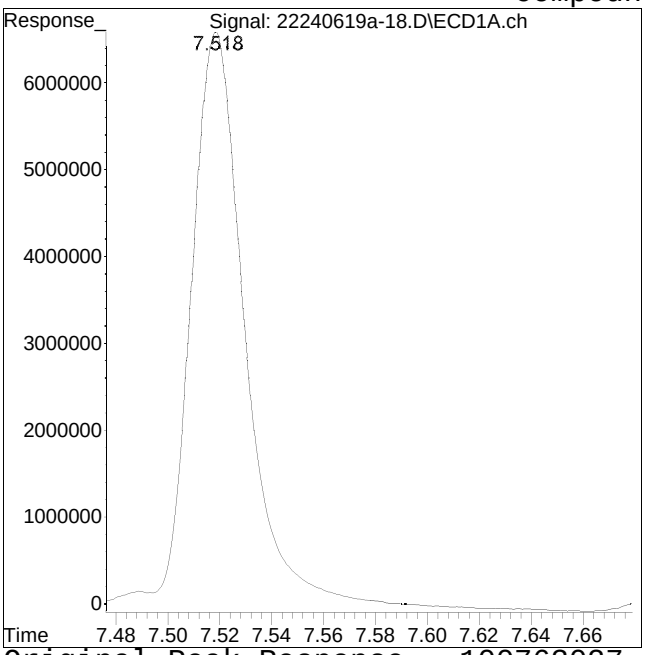


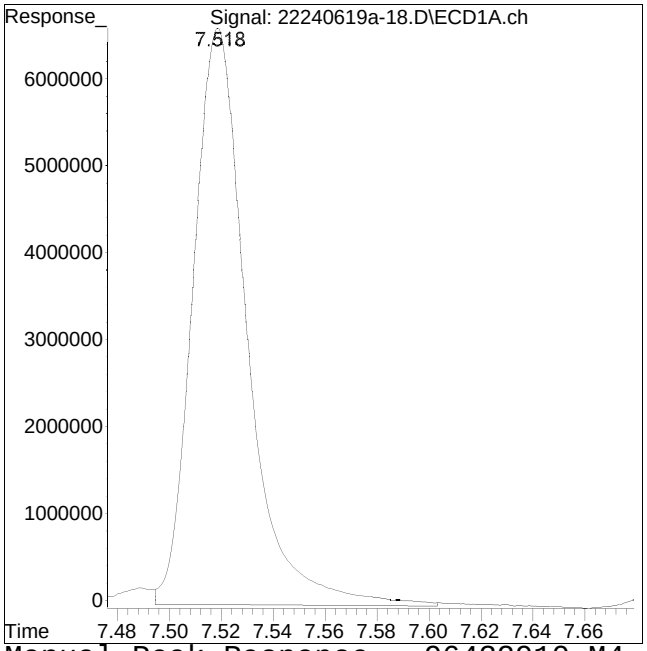
Original Peak Response = 61712708 Manual Peak Response = 56961548 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #6: MCPA



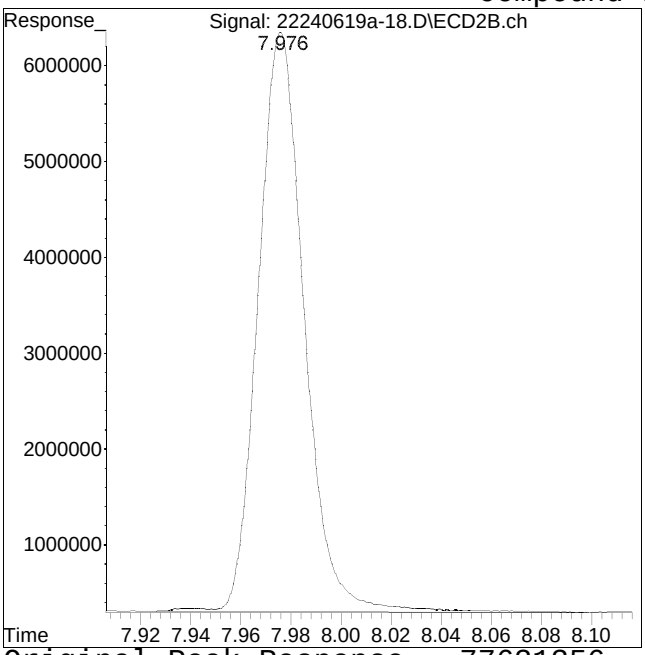


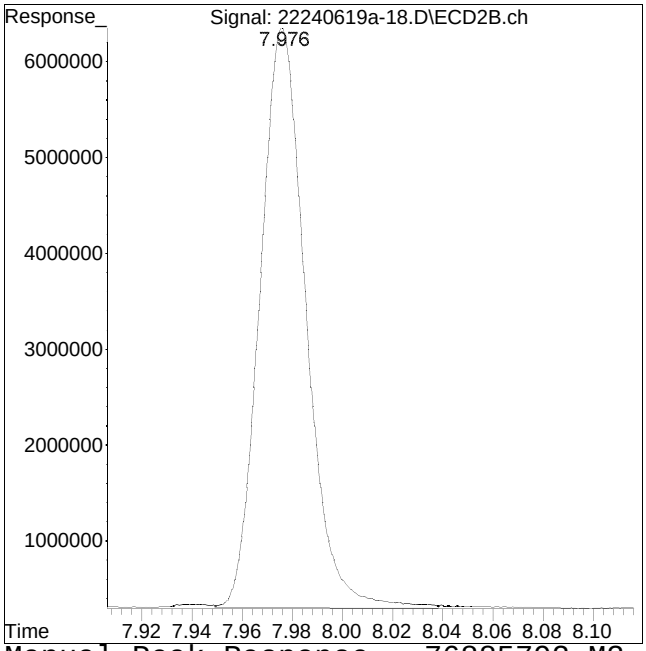
Original Peak Response = 100763027 Manual Peak Response = 96432910 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #19: MCPA #2



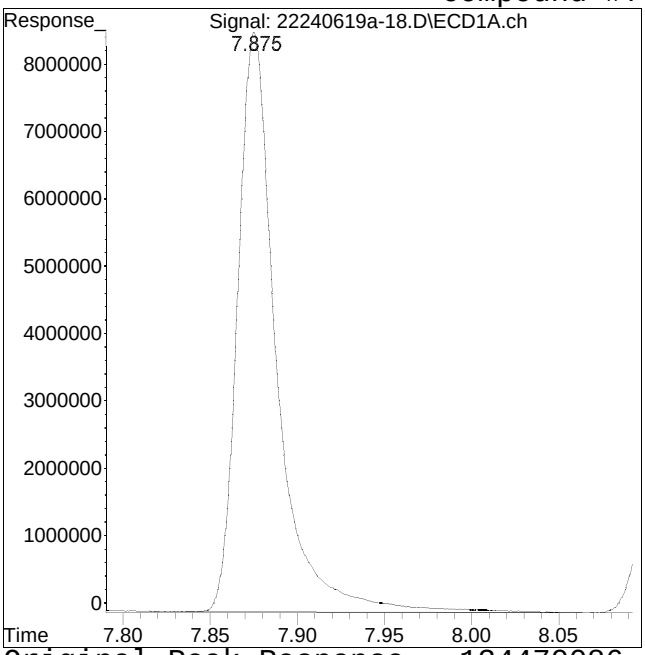


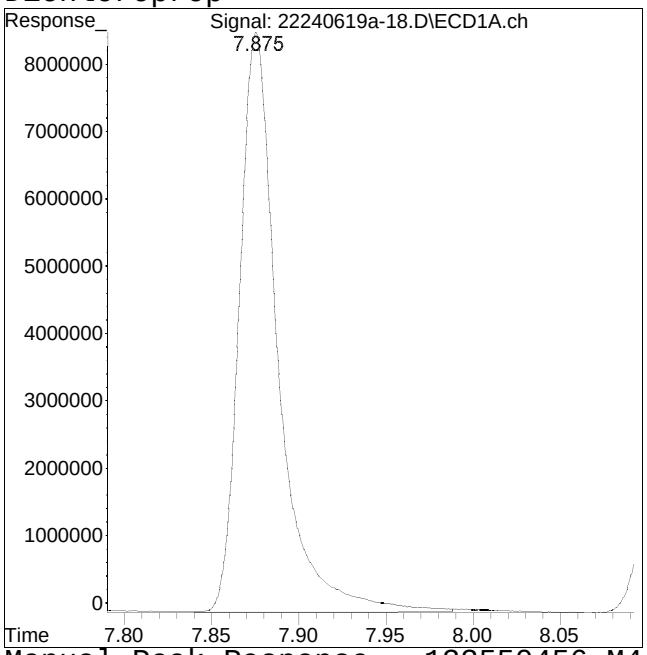
Original Peak Response = 77631356 Manual Peak Response = 76885792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #7: Dichloroprop



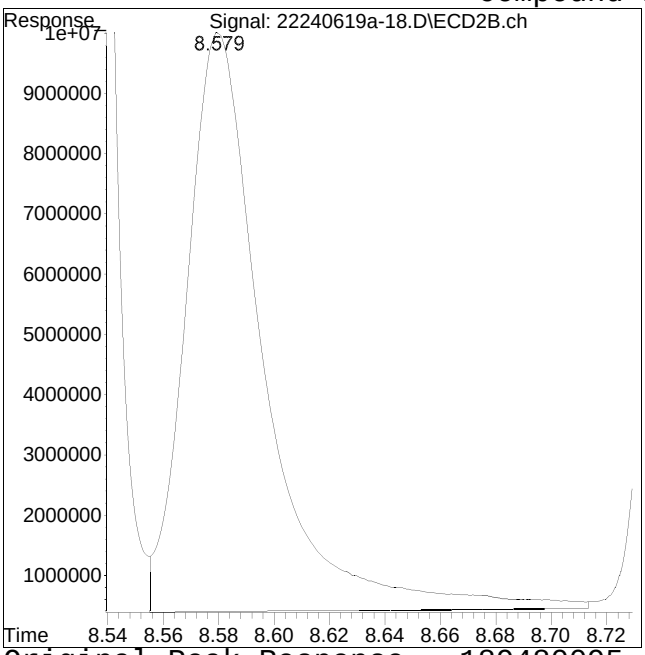


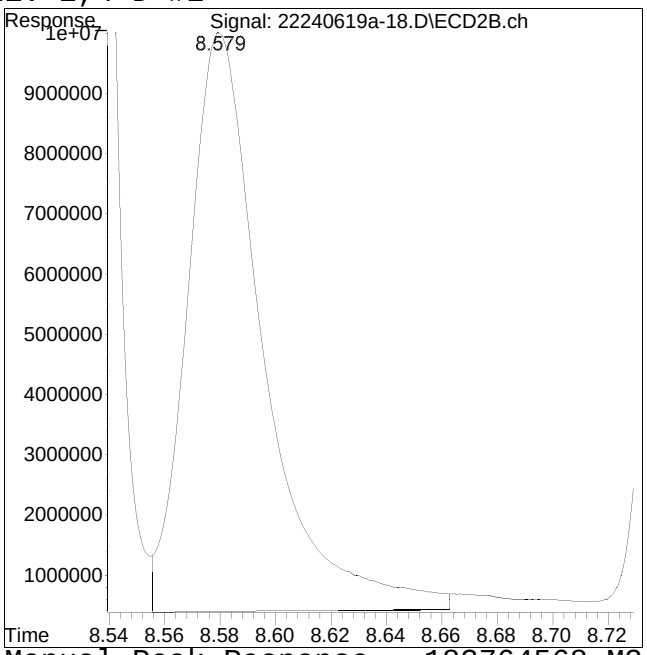
Original Peak Response = 134470086 Manual Peak Response = 133550456 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #21: 2,4-D #2



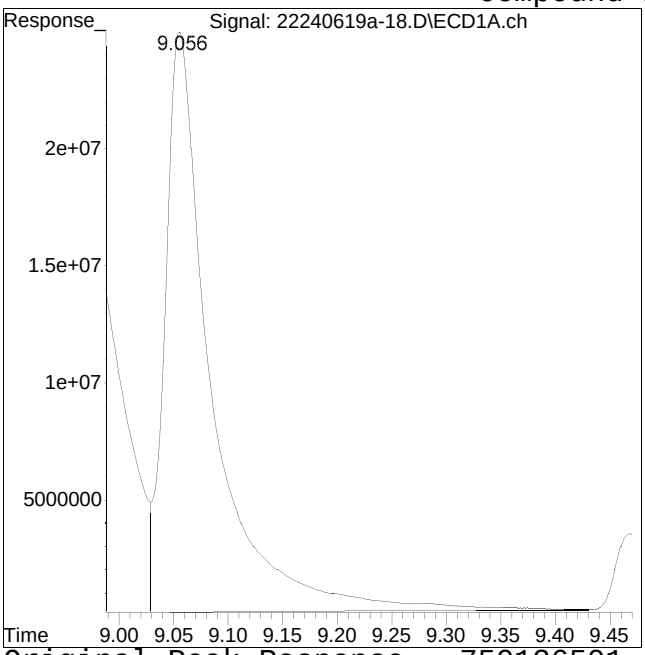


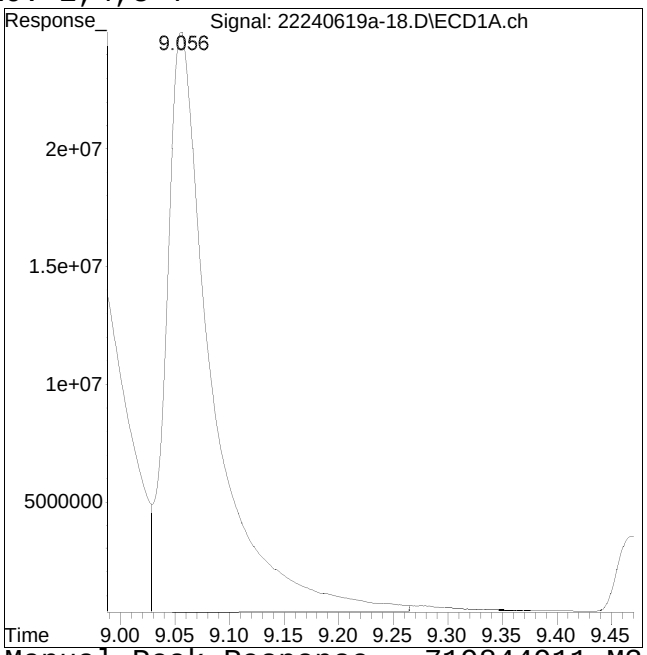
Original Peak Response = 189480095 Manual Peak Response = 183764568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #10: 2,4,5-T





Original Peak Response = 750126501 Manual Peak Response = 719844911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 18:04
Operator : pest22:peg
Sample   : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	112	0.00
2	t	Dalapon		0.211	0.221	-4.7	112	0.00
3	s	DCAA (surrogate)		0.206	0.209	-1.5	106	0.00
4	t	Dicamba		0.589	0.616	-4.6	109	0.00
5	t	MCPP		0.00052	0.00085	-63.5#	171#	0.00
6	t	MCPA		0.00097	0.00148	-52.6#	160#	0.00
7	t	Dichloroprop		0.193	0.201	-4.1	108	0.00
8	t	2,4-D		0.240	0.255	-6.3	111	-0.02
9	t	2,4,5-TP (Silvex)		0.868	0.893	-2.9	106	-0.01
10	t	2,4,5-T		0.853	1.025	-20.2#	126	-0.02
11	t	2,4-DB		0.132	0.129	2.3	102	-0.03
12	t	Dinoseb		0.493	0.868	-76.1#	184#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	124	0.00
2	t	Dalapon		0.197	0.212	-7.6	127	0.00
3	s	DCAA (surrogate)		0.203	0.208	-2.5	119	0.00
4	t	Dicamba		0.594	0.599	-0.8	118	0.00
5	t	MCPP		0.00074	0.00059	20.3#	96	0.00
6	t	MCPA		0.00124	0.00115	7.3	109	0.00
7	t	Dichloroprop		0.192	0.198	-3.1	119	0.00
8	t	2,4-D		0.237	0.283	-19.4#	141	0.00
9	t	2,4,5-TP (Silvex)		0.856	0.947	-10.6	129	0.00
10	t	2,4,5-T		0.831	0.829	0.2	117	0.00
11	t	2,4-DB		0.141	0.141	0.0	119	-0.01
12	t	Dinoseb		0.491	0.588	-19.8#	142	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 18:04
Operator : pest22:peg
Sample   : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:04
Operator : pest22:peg
Sample : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.531	8.526	834.3E6	846.6E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.988	7.457	131.0E6	132.3E6	0.191M4	0.193M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	38.20%	38.60%
		Target Compounds						
2)	t	Dalapon	2.385	2.384	134.2E6	130.5E6	0.190M3	0.195
4)	t	Dicamba	7.170	7.638	386.6E6	381.7E6	0.197M3	0.190
5)	t	MCPP	7.371	7.749	53283697	37723567	30.644M4	15.135M4
D								
6)	t	MCPA	7.518	7.976	91606680	72494982	28.397M3	17.267
D								
7)	t	Dichloroprop	7.875	8.294	126.0E6	125.8E6	0.196M4	0.193M3
8)	t	2,4-D	8.120f	8.580	159.8E6	179.9E6	0.200	0.224
9)	t	2,4,5-TP (Si	8.817	9.232	566.1E6	609.5E6	0.196	0.210
10)	t	2,4,5-T	9.054f	9.526	650.1E6	533.2E6	0.228M3	0.190
11)	t	2,4-DB	9.466f	9.888	82696247	91820003	0.188	0.193M4
12)	t	Dinoseb	10.185	10.101	550.4E6	378.6E6	0.335	0.228M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:04
Operator : pest22:peg
Sample : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

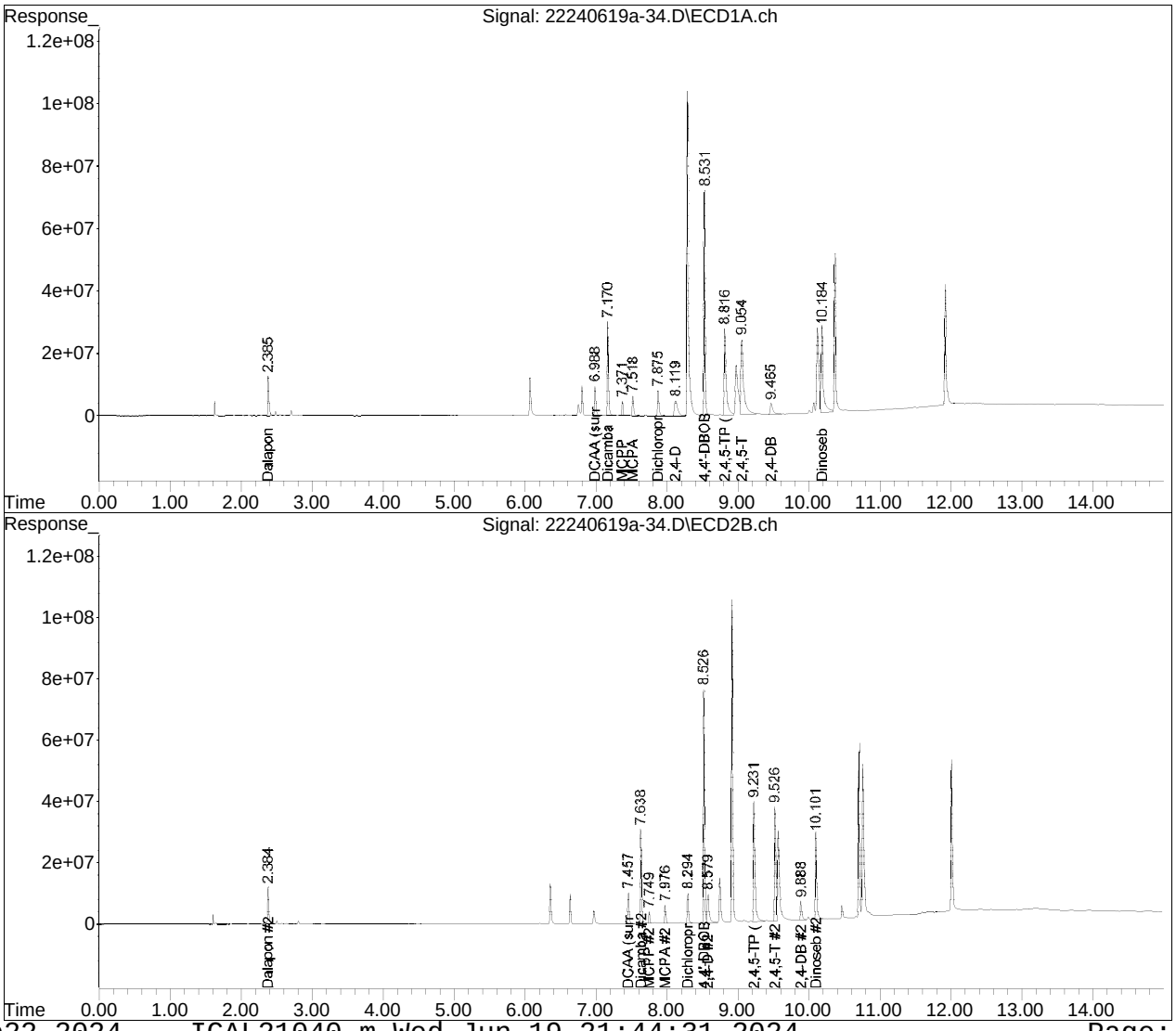
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:04
Operator : pest22:peg
Sample : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

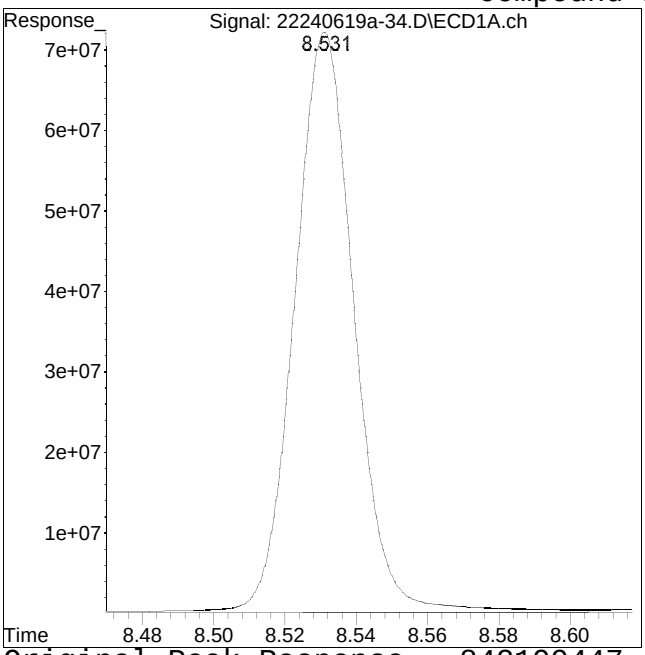
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

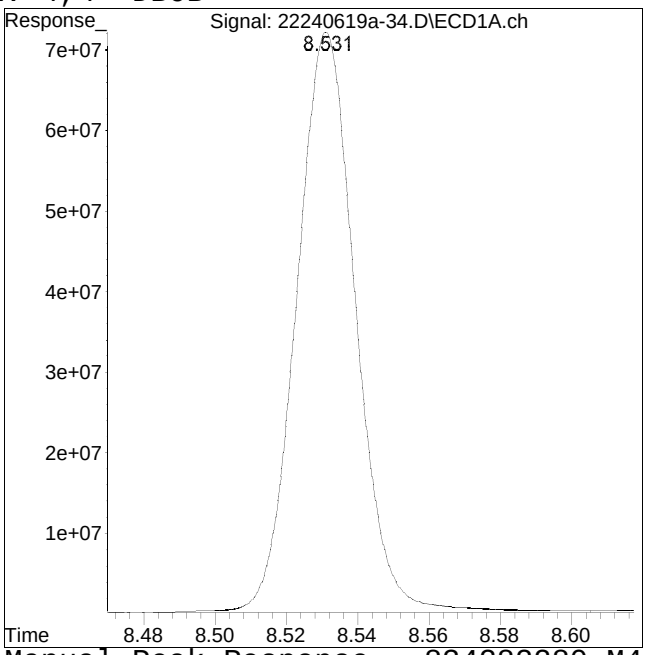


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #1: 4,4'-DBOB



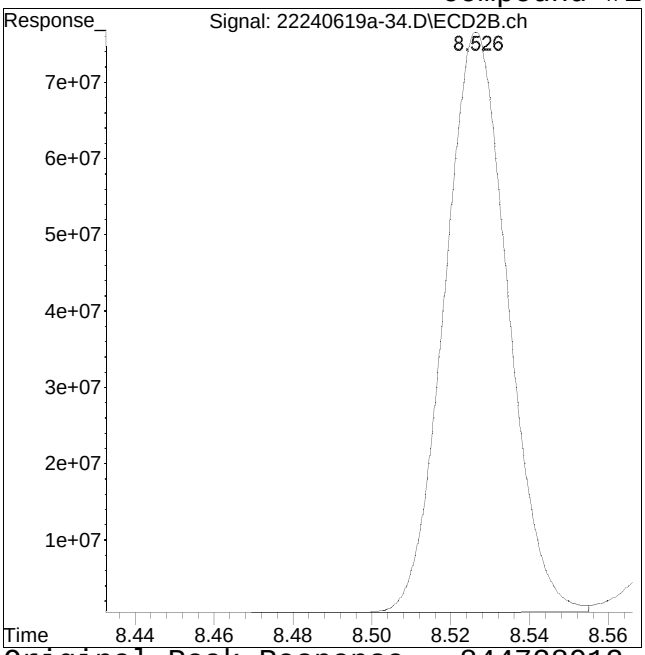


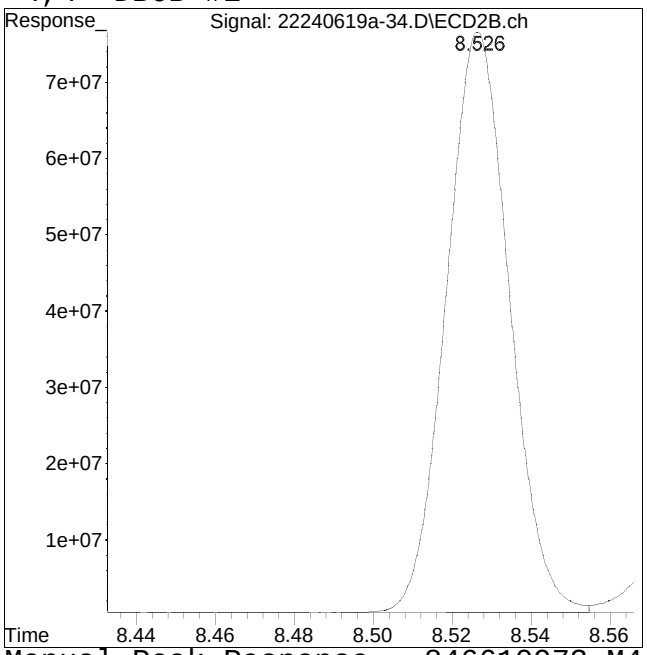
Original Peak Response = 842199447 Manual Peak Response = 834282280 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #14: 4,4'-DBOB #2



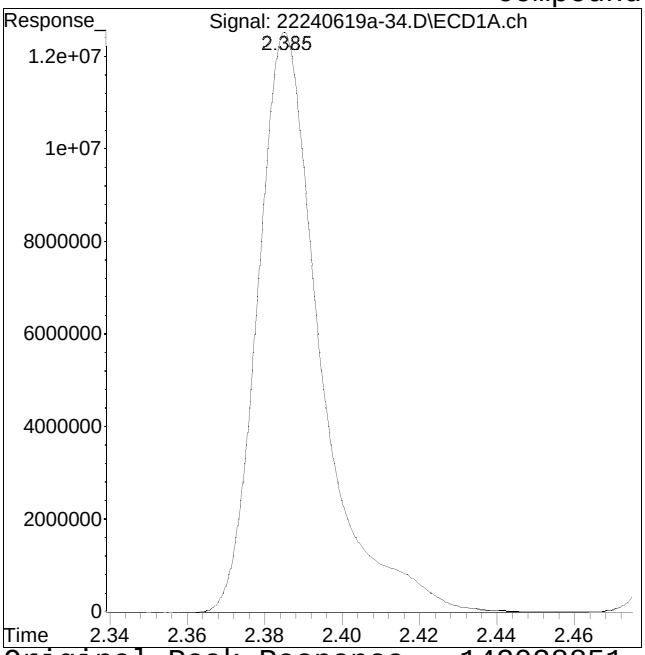


Original Peak Response = 844728912 Manual Peak Response = 846610973 M4
M4 = Poor automated baseline construction.

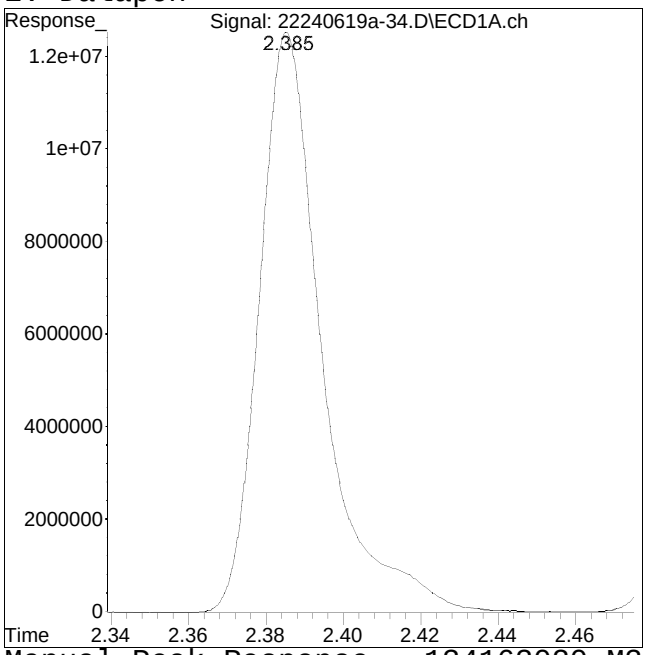
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #2: Dalapon



Original Peak Response = 142038851



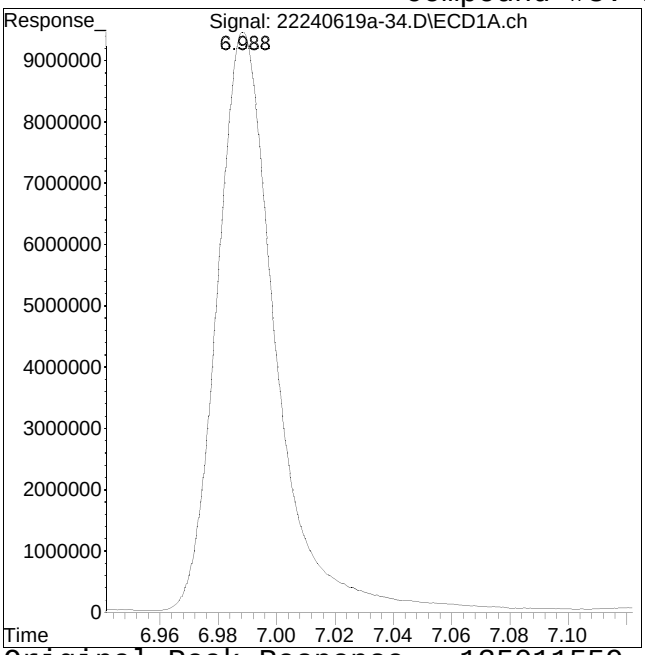
Manual Peak Response = 134163020 M3

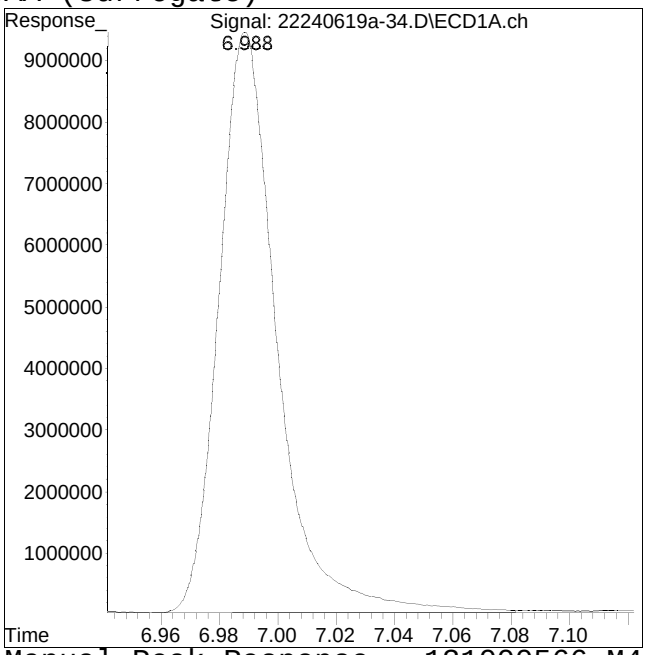
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #3: DCAA (surrogate)



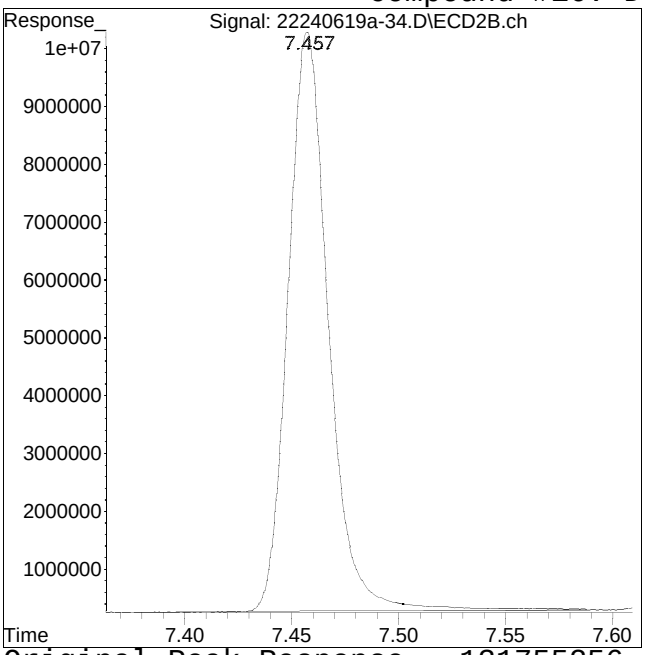


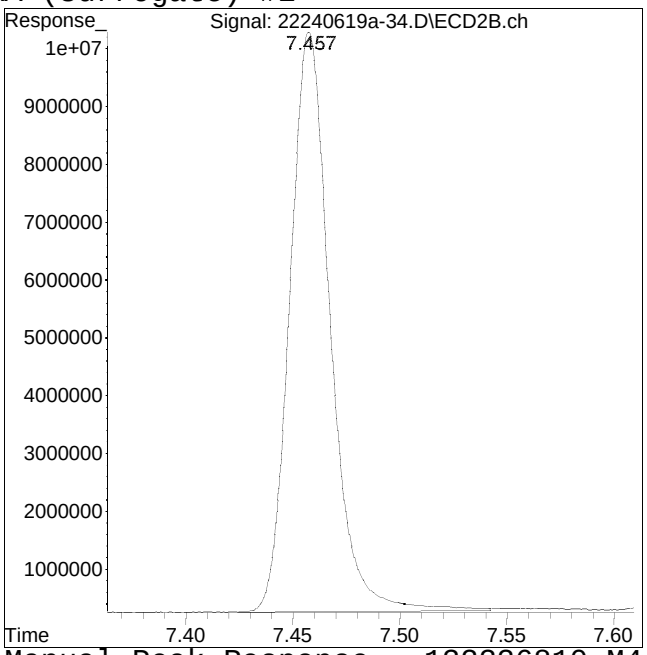
Original Peak Response = 135011559 Manual Peak Response = 131000566 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #16: DCAA (surrogate) #2



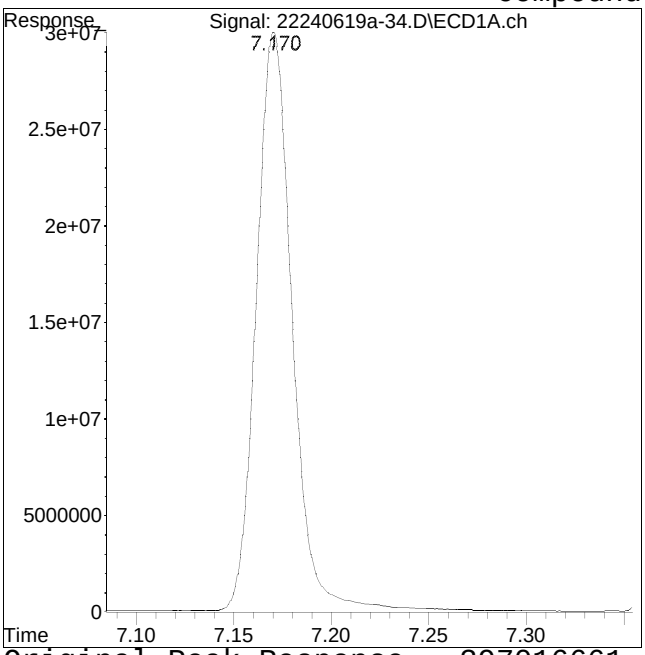


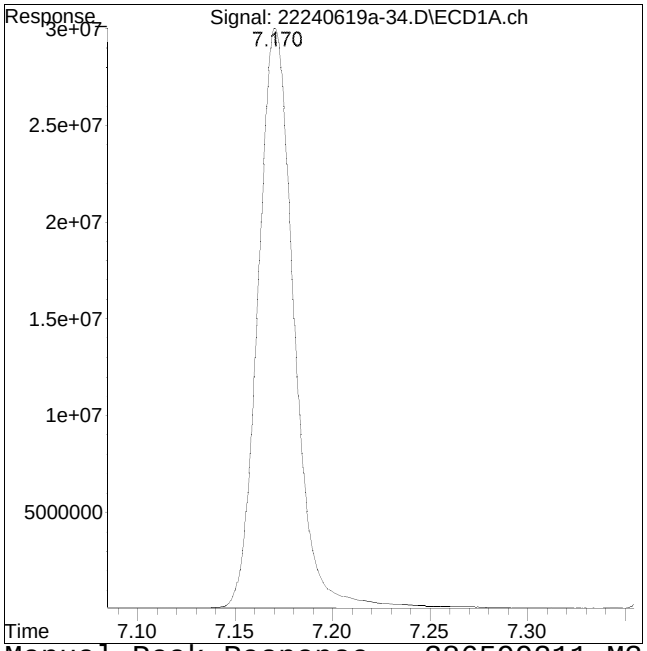
Original Peak Response = 131755256 Manual Peak Response = 132336810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #4: Dicamba



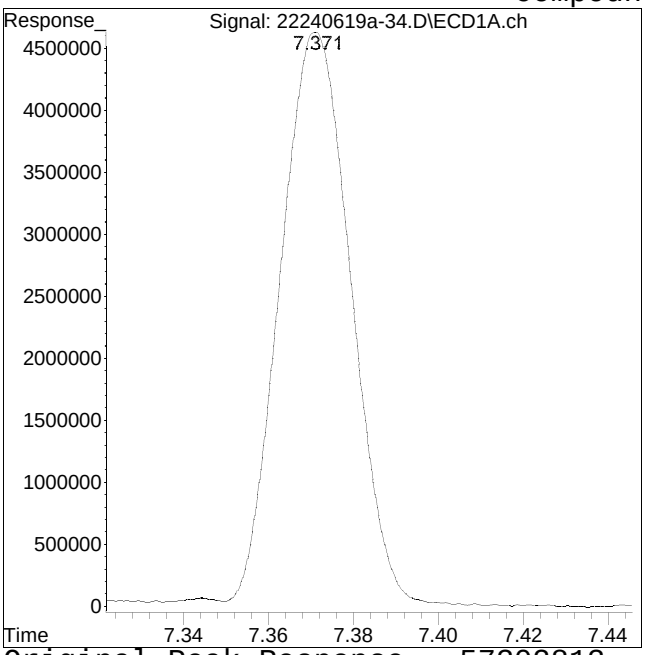


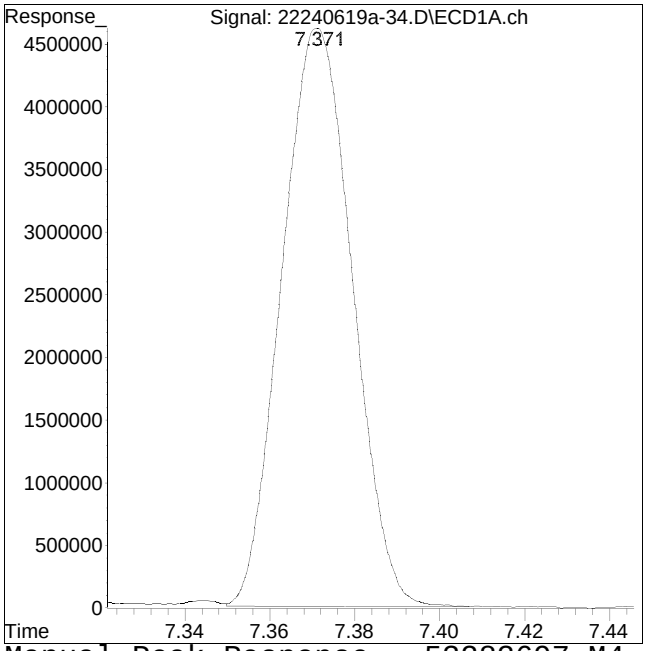
Original Peak Response = 397016661 Manual Peak Response = 386599211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #5: MCPP



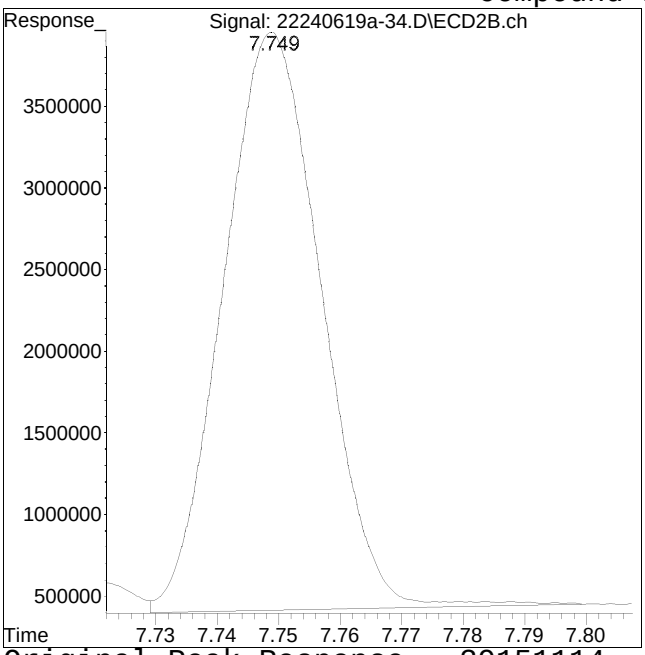


Original Peak Response = 57302813 Manual Peak Response = 53283697 M4
M4 = Poor automated baseline construction.

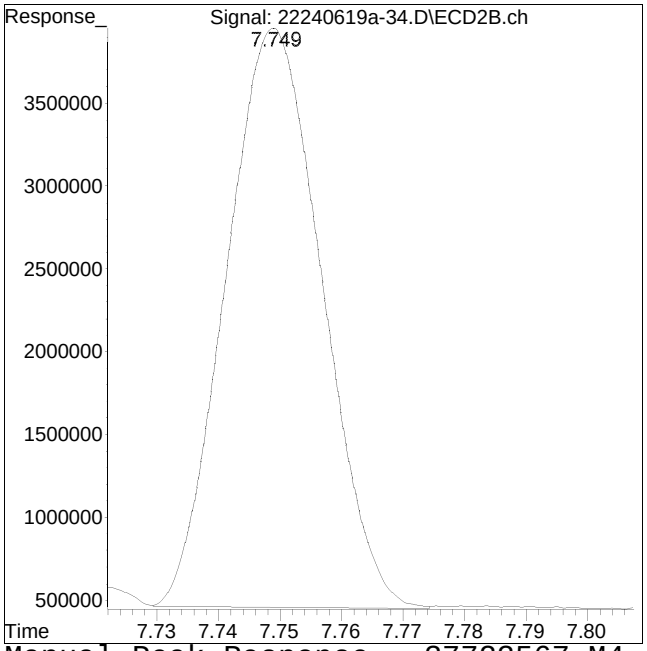
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #18: MCPP #2



Original Peak Response = 39151114



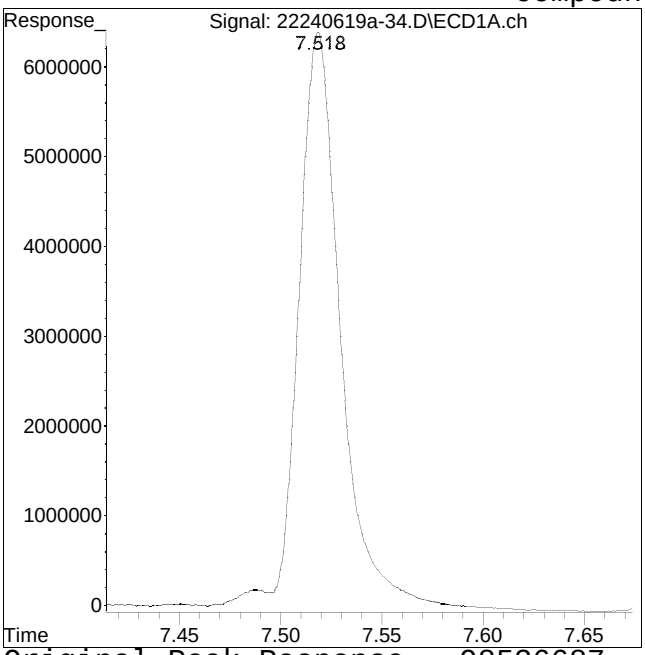
Manual Peak Response = 37723567 M4

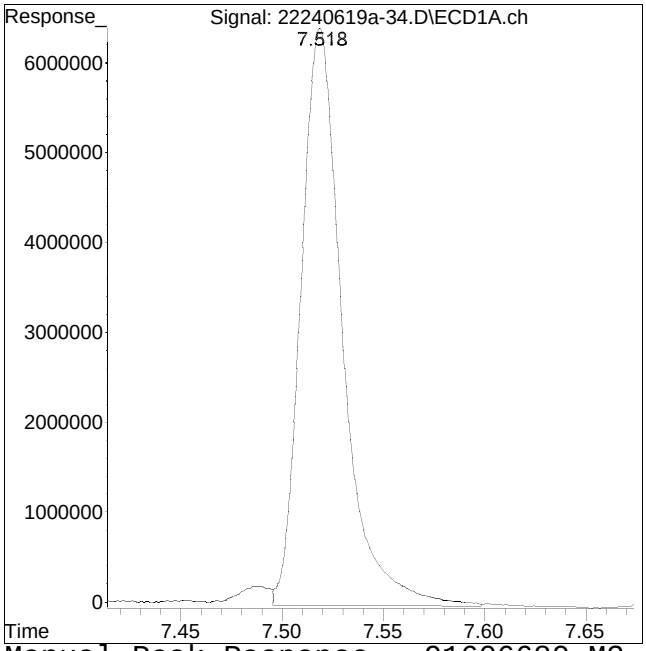
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #6: MCPA



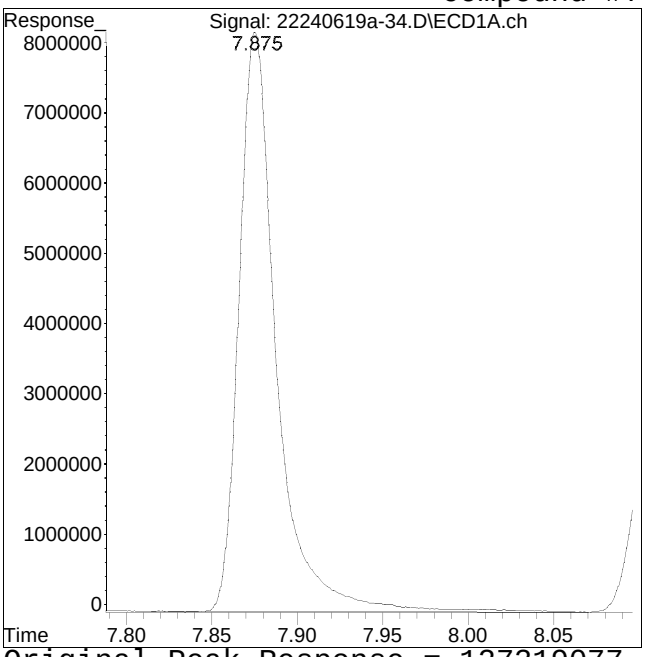


Original Peak Response = 98536687 Manual Peak Response = 91606680 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

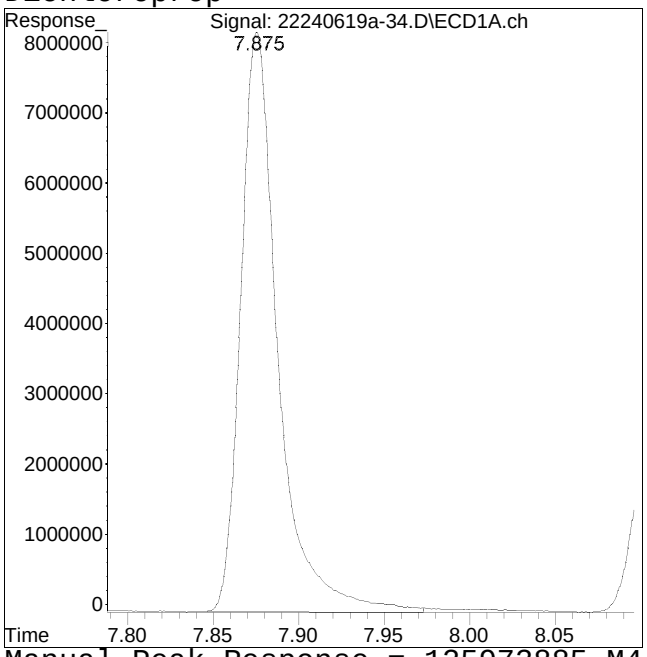
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #7: Dichloroprop



Original Peak Response = 127319077



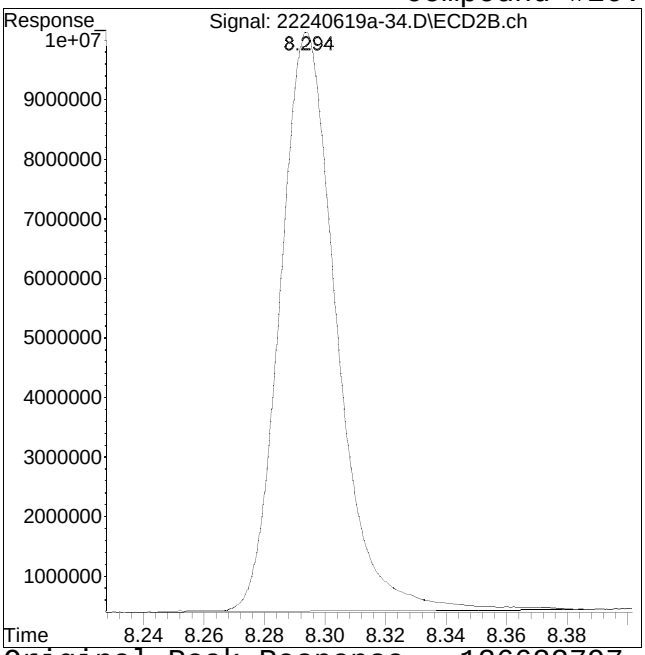
Manual Peak Response = 125973885 M4

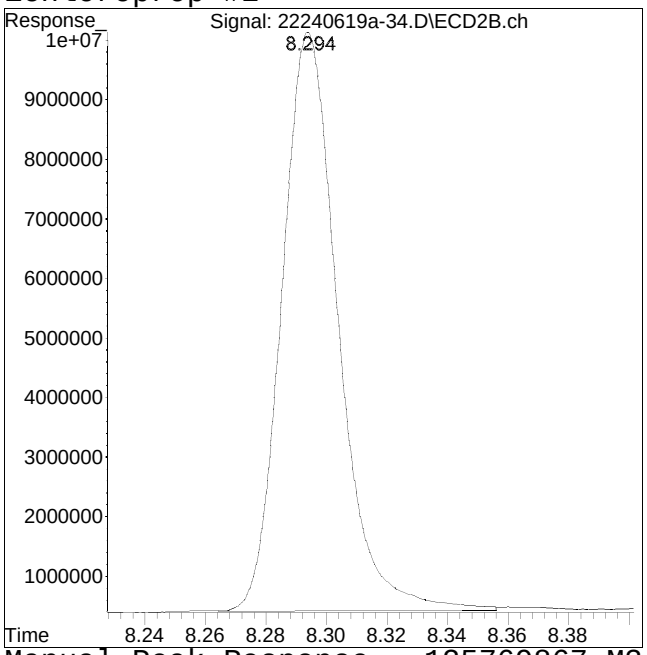
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #20: Dichloroprop #2



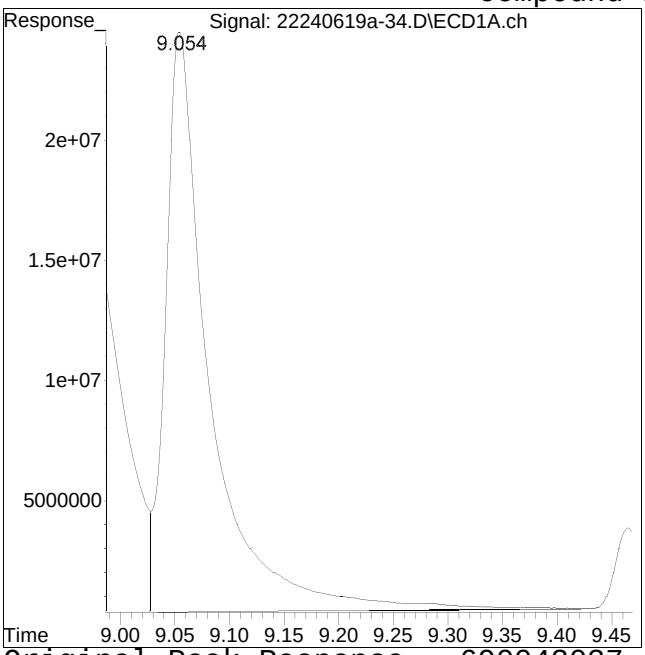


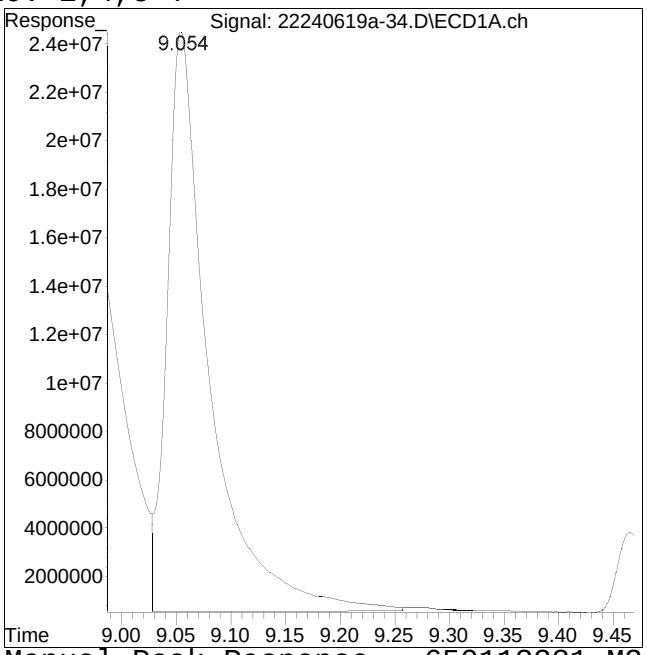
Original Peak Response = 126622797 Manual Peak Response = 125769867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #10: 2,4,5-T



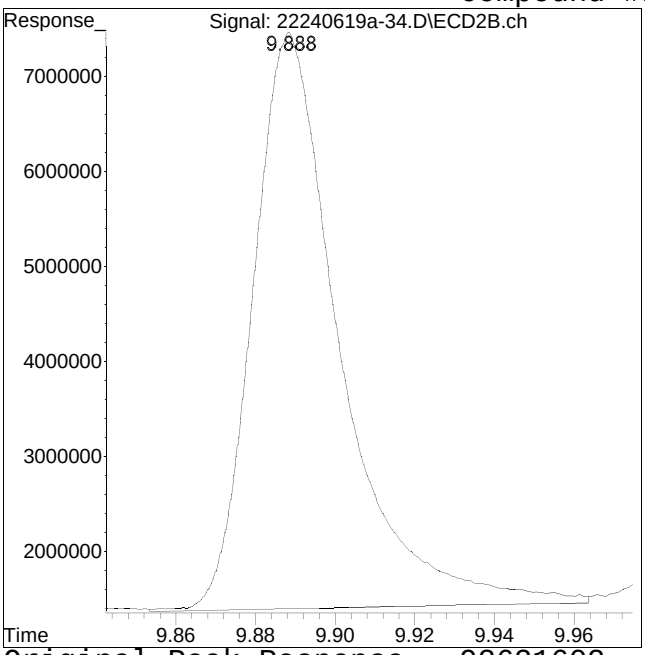


Original Peak Response = 690043037 Manual Peak Response = 650113331 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

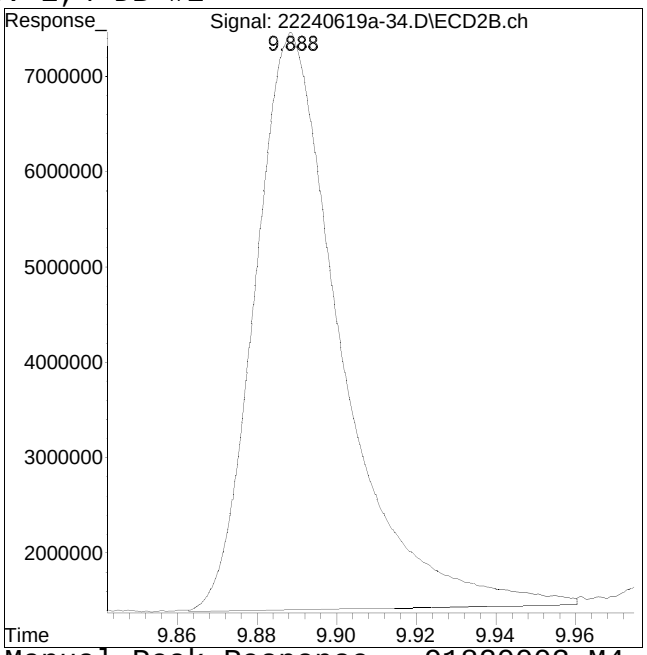
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #24: 2,4-DB #2



Original Peak Response = 92621602



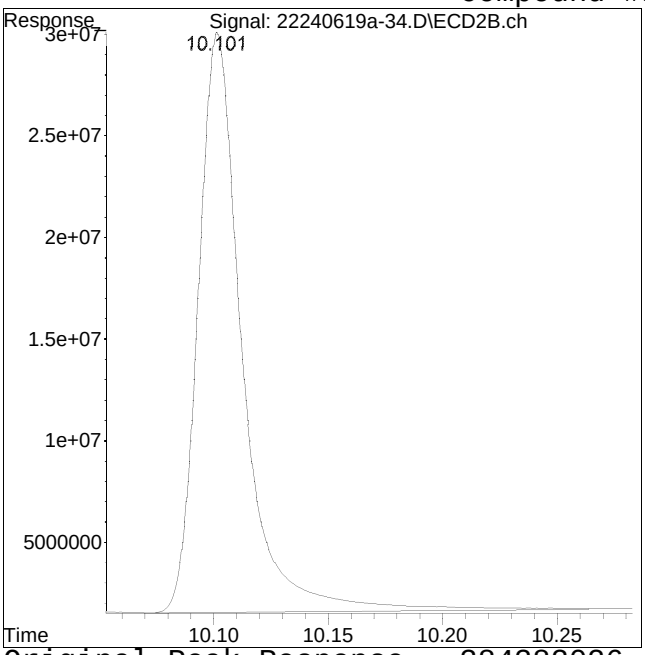
Manual Peak Response = 91820003 M4

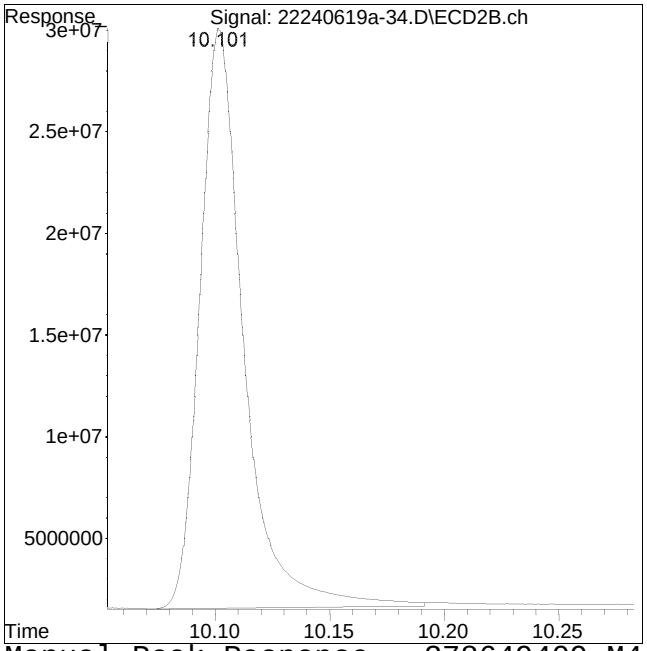
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #25: Dinoseb #2





Original Peak Response = 384382026 Manual Peak Response = 378649409 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-45.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 21:29
Operator : pest22:peg
Sample   : wg1936304-4,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 45   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:56:31 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	118	0.00
2	t	Dalapon		0.211	0.225	-6.6	119	0.00
3	s	DCAA (surrogate)		0.206	0.209	-1.5	112	0.00
4	t	Dicamba		0.589	0.619	-5.1	115	0.00
5	t	MCPP		0.00052	0.00086	-65.4#	182#	0.00
6	t	MCPA		0.00097	0.00143	-47.4#	163#	0.00
7	t	Dichloroprop		0.193	0.200	-3.6	112	0.00
8	t	2,4-D		0.240	0.253	-5.4	116	-0.02
9	t	2,4,5-TP (Silvex)		0.868	0.889	-2.4	111	-0.02
10	t	2,4,5-T		0.853	1.002	-17.5#	129	-0.02
11	t	2,4-DB		0.132	0.130	1.5	108	-0.02
12	t	Dinoseb		0.493	0.800	-62.3#	178#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	131	0.00
2	t	Dalapon		0.197	0.205	-4.1	130	0.00
3	s	DCAA (surrogate)		0.203	0.205	-1.0	124	0.00
4	t	Dicamba		0.594	0.601	-1.2	125	0.00
5	t	MCPP		0.00074	0.00059	20.3#	101	0.00
6	t	MCPA		0.00124	0.00114	8.1	113	0.00
7	t	Dichloroprop		0.192	0.197	-2.6	125	0.00
8	t	2,4-D		0.237	0.277	-16.9#	145	0.00
9	t	2,4,5-TP (Silvex)		0.856	0.941	-9.9	135	0.00
10	t	2,4,5-T		0.831	0.824	0.8	123	0.00
11	t	2,4-DB		0.141	0.139	1.4	123	0.00
12	t	Dinoseb		0.491	0.587	-19.6#	149	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-45.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 21:29
Operator : pest22:peg
Sample   : wg1936304-4,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 45   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:56:31 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-45.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 21:29
Operator : pest22:peg
Sample : wg1936304-4,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:56:31 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.531	8.526	876.0E6	892.3E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.988	7.457	137.6E6	137.7E6	0.191M4	0.190M4
		Spiked Amount 0.500	Range 30 - 150		Recovery =		38.20%	38.00%
		Target Compounds						
2)	t	Dalapon	2.386	2.384	143.2E6	133.3E6	0.193M4	0.189M4
4)	t	Dicamba	7.170	7.637	407.4E6	403.4E6	0.197M4	0.190M4
5)	t	MCPP	7.371	7.749	56567037	39882821	30.984M4	15.182M4
	D							
6)	t	MCPA	7.518	7.975	93492462	75448476	27.603M4	17.050M4
	D							
7)	t	Dichloroprop	7.874	8.293	131.6E6	132.1E6	0.195M4	0.193M3
8)	t	2,4-D	8.119f	8.578	167.0E6	185.6E6	0.199	0.219M4
9)	t	2,4,5-TP (Si	8.816f	9.231	591.5E6	638.1E6	0.195	0.209M4
10)	t	2,4,5-T	9.054f	9.526	667.3E6	558.6E6	0.223M4	0.188
11)	t	2,4-DB	9.468f	9.889	87430992	95501446	0.189M4	0.190M4
12)	t	Dinoseb	10.183	10.101	532.8E6	398.0E6	0.309M4	0.227M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-45.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 21:29
Operator : pest22:peg
Sample : wg1936304-4,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:56:31 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

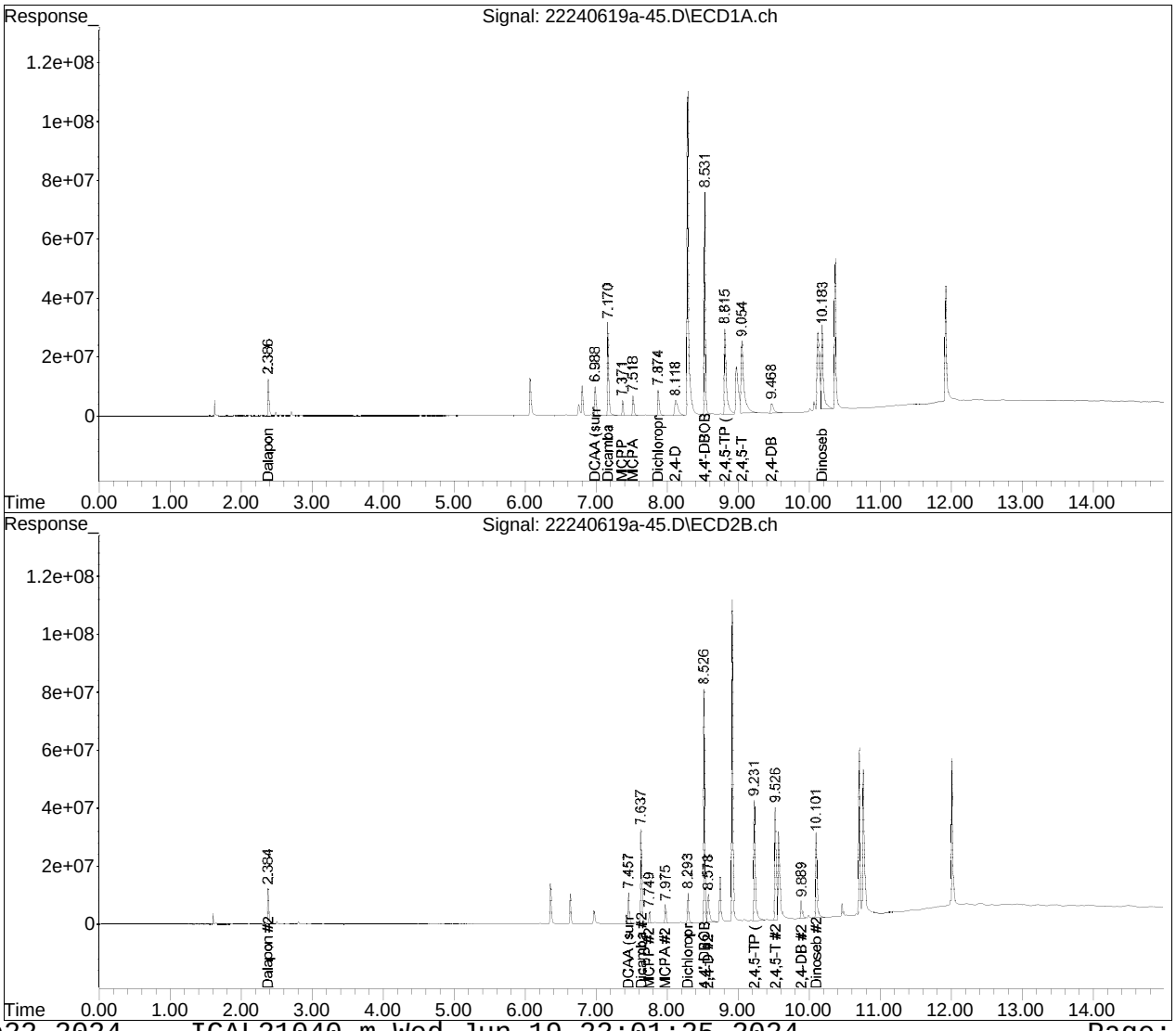
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-45.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 21:29
Operator : pest22:peg
Sample : wg1936304-4,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:56:31 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

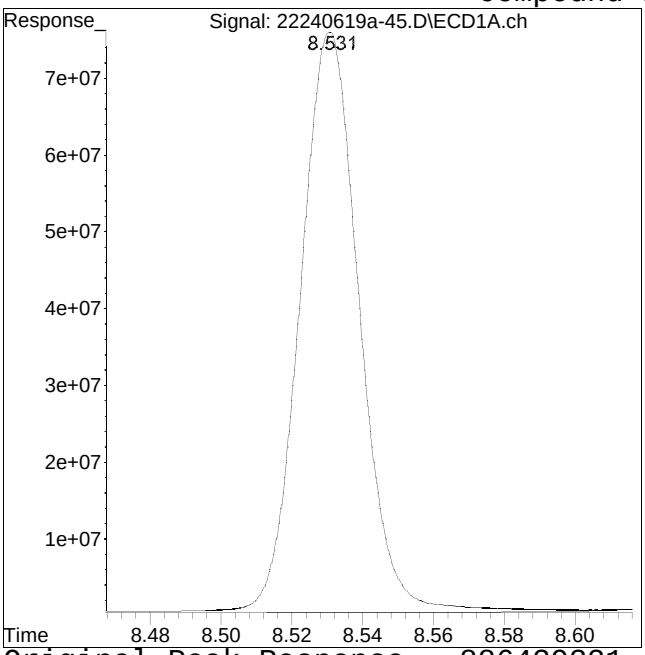
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

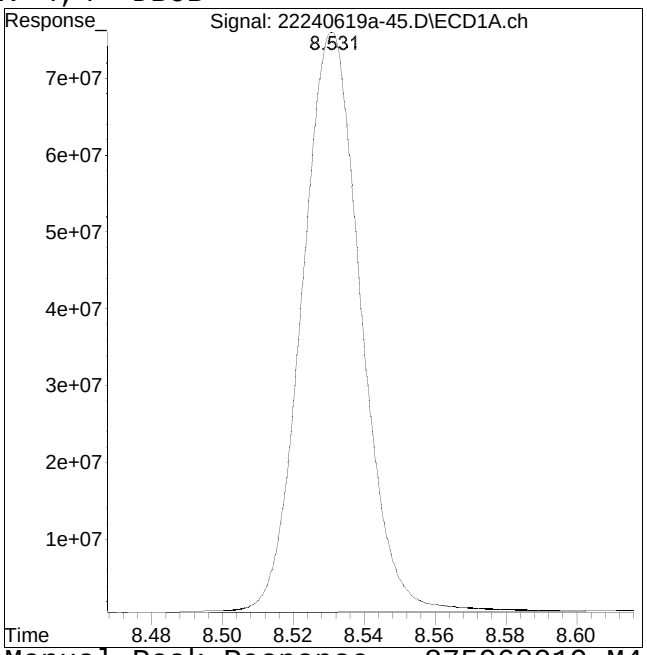


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #1: 4,4'-DBOB



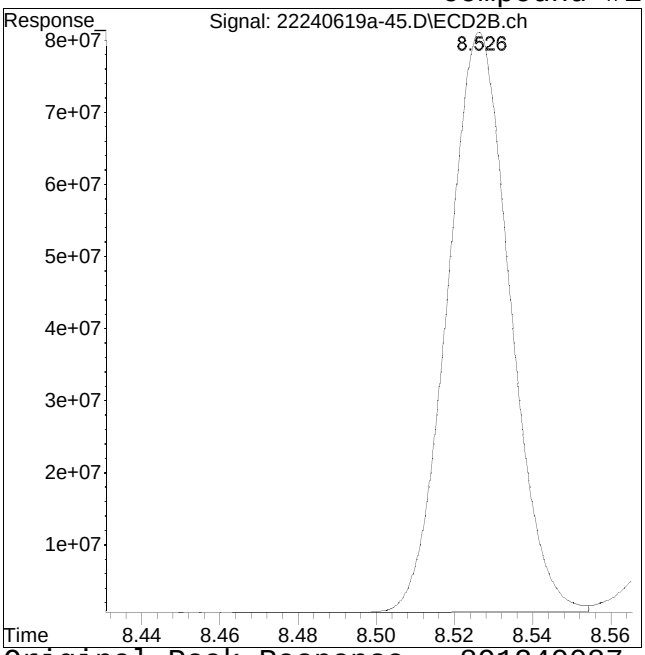


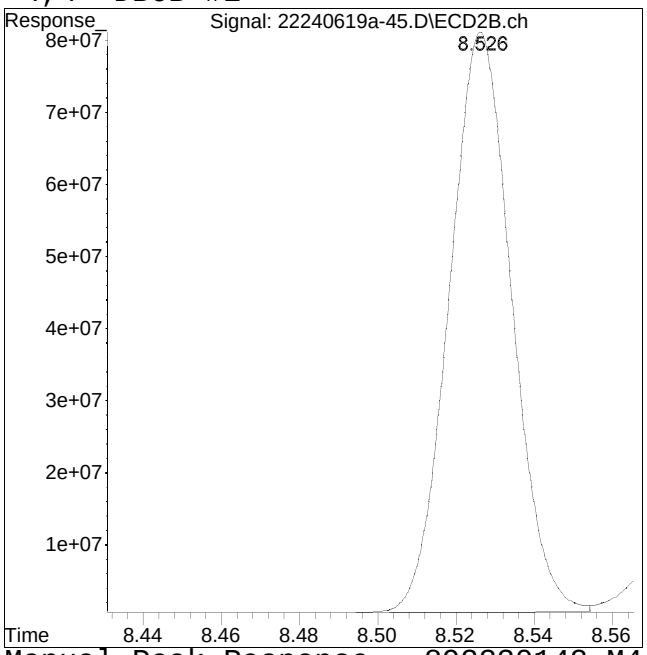
Original Peak Response = 886439321 Manual Peak Response = 875968019 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #14: 4,4'-DBOB #2



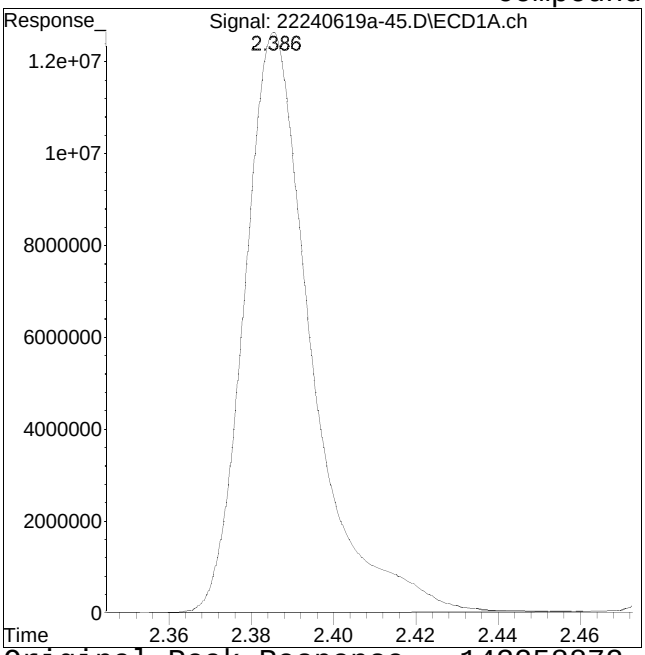


Original Peak Response = 891240087 Manual Peak Response = 892330142 M4
M4 = Poor automated baseline construction.

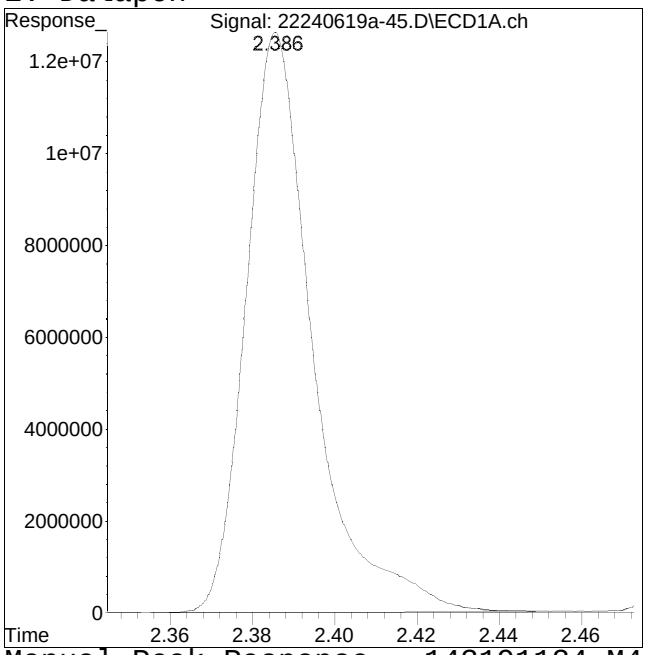
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #2: Dalapon



Original Peak Response = 143258872



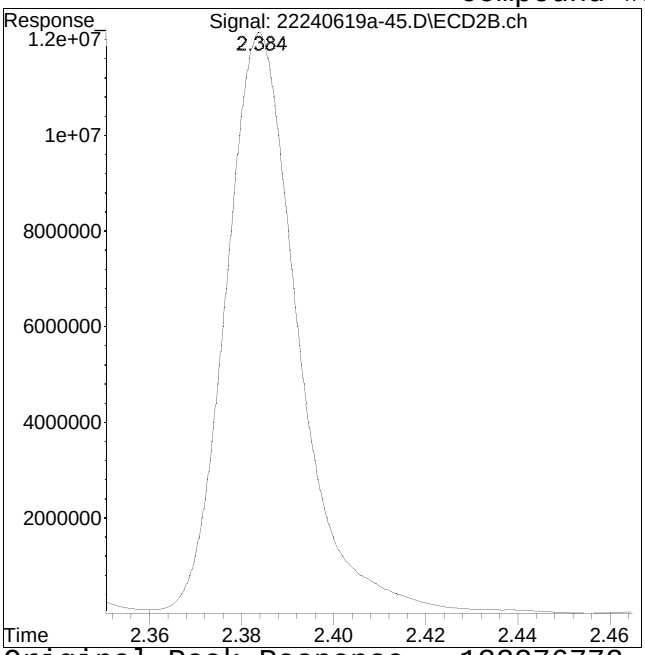
Manual Peak Response = 143191124 M4

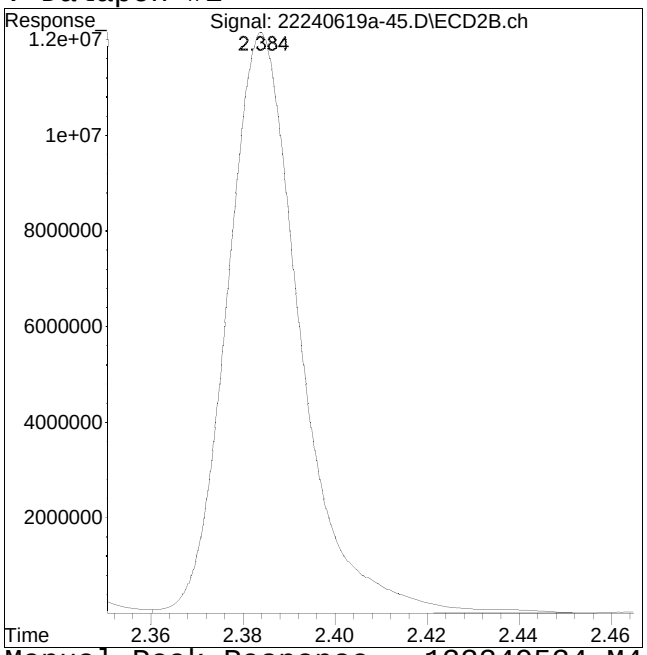
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #15: Dalapon #2



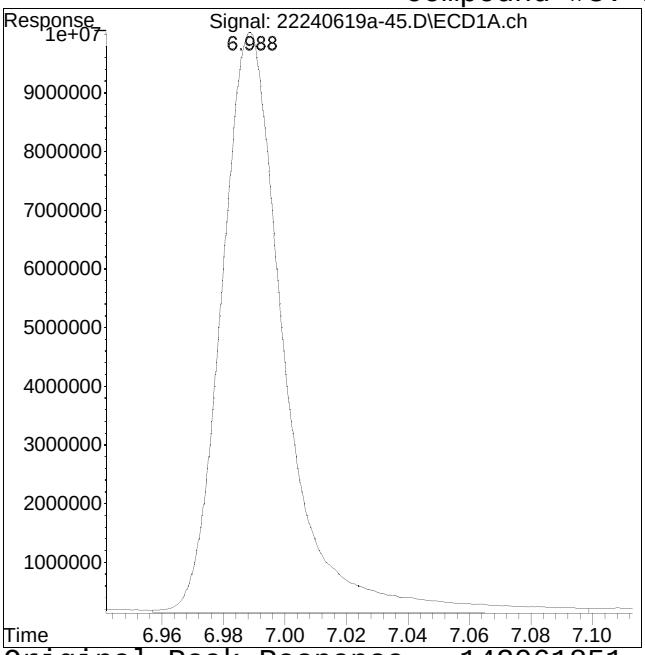


Original Peak Response = 133276772 Manual Peak Response = 133349534 M4
M4 = Poor automated baseline construction.

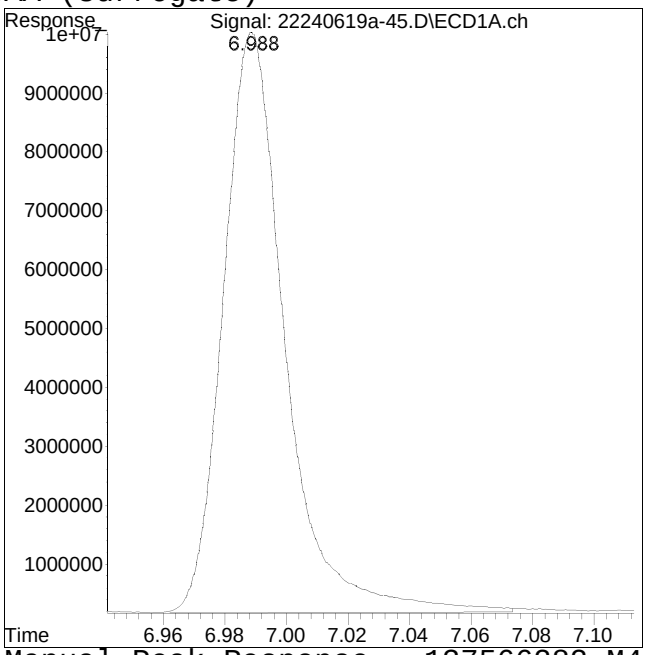
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 142061851



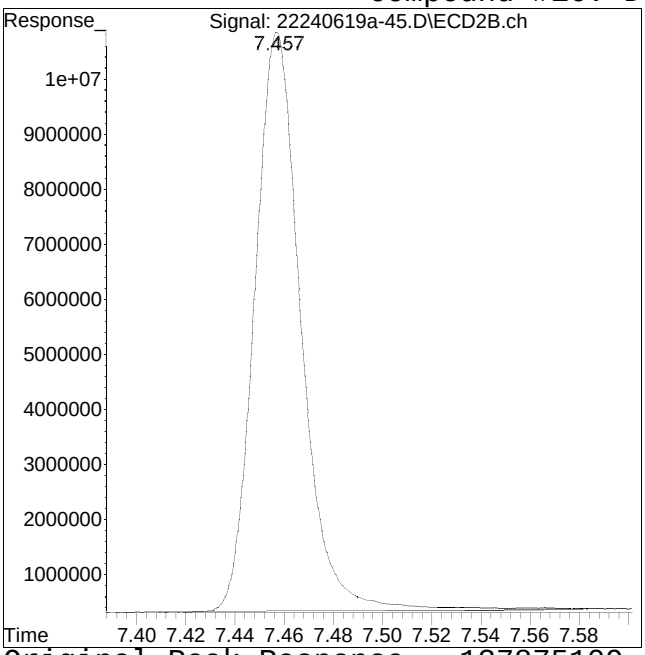
Manual Peak Response = 137566282 M4

M4 = Poor automated baseline construction.

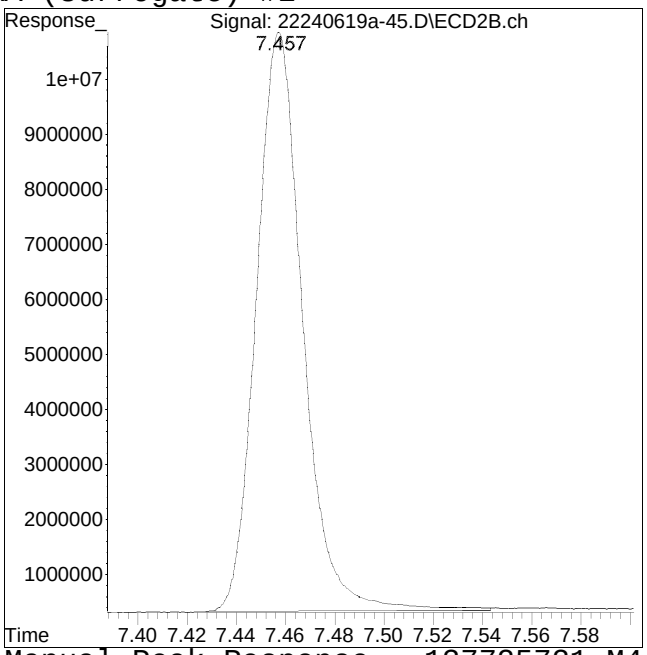
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 137875109



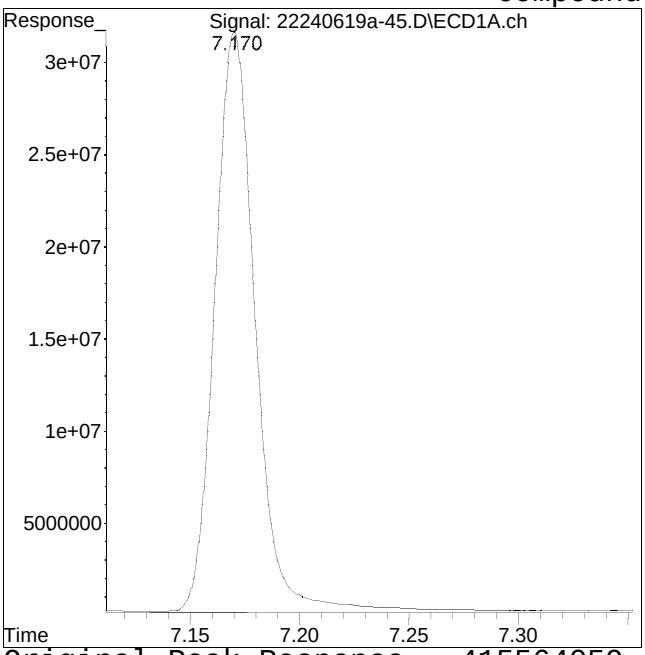
Manual Peak Response = 137725721 M4

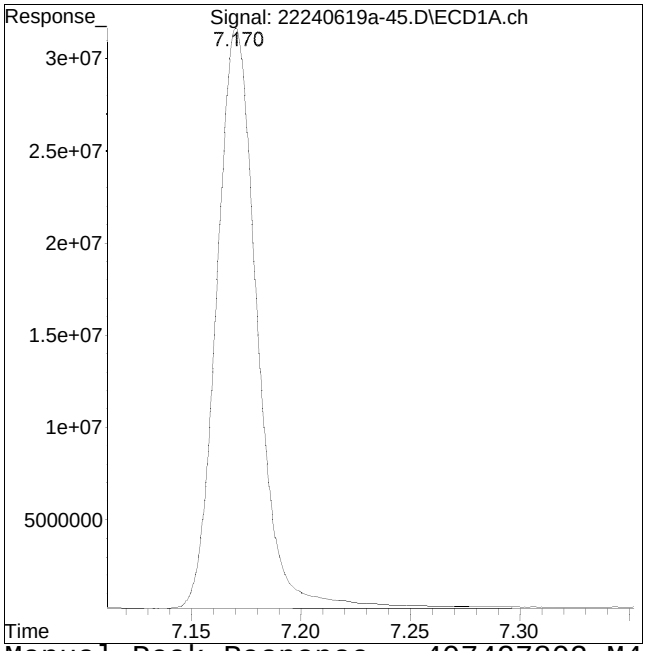
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #4: Dicamba



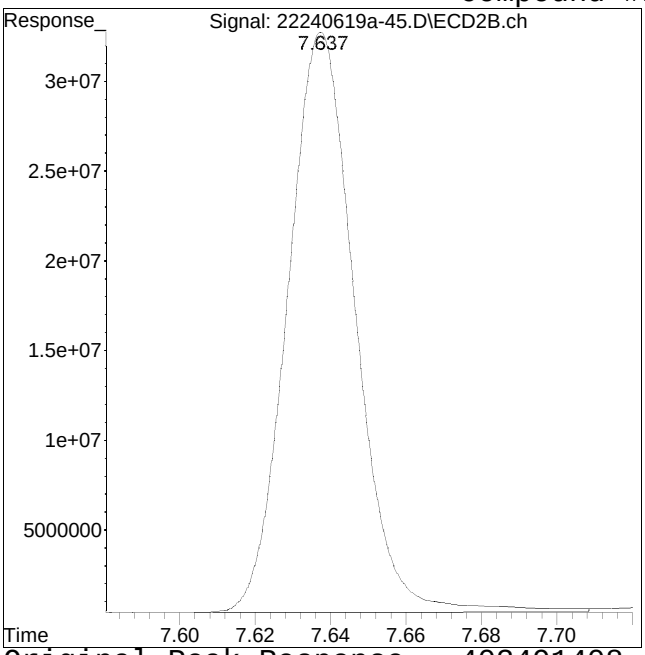


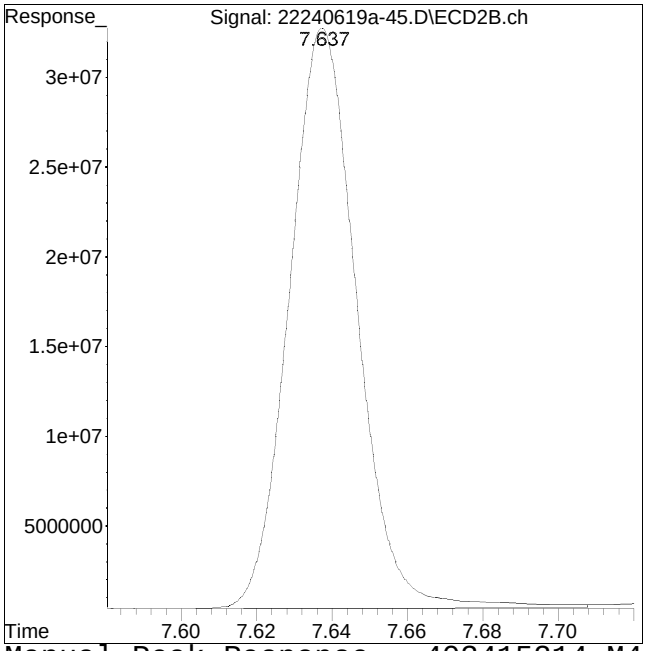
Original Peak Response = 415564059 Manual Peak Response = 407427802 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #17: Dicamba #2



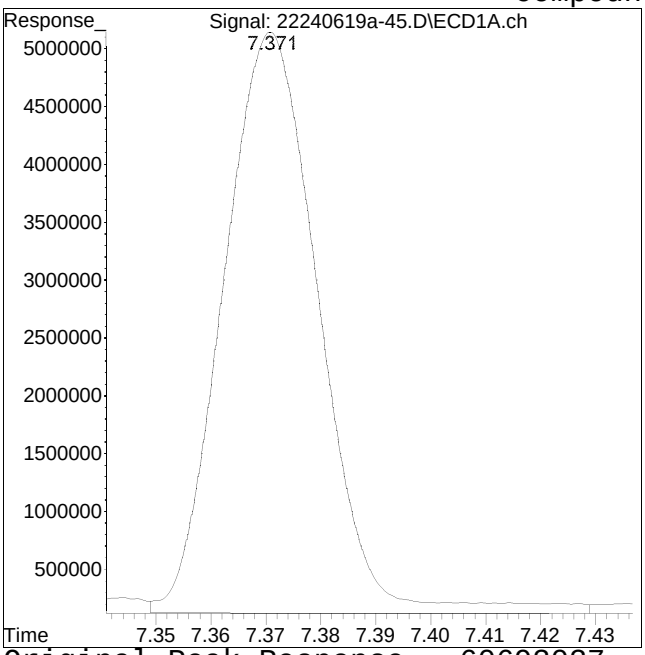


Original Peak Response = 403491408 Manual Peak Response = 403415214 M4
M4 = Poor automated baseline construction.

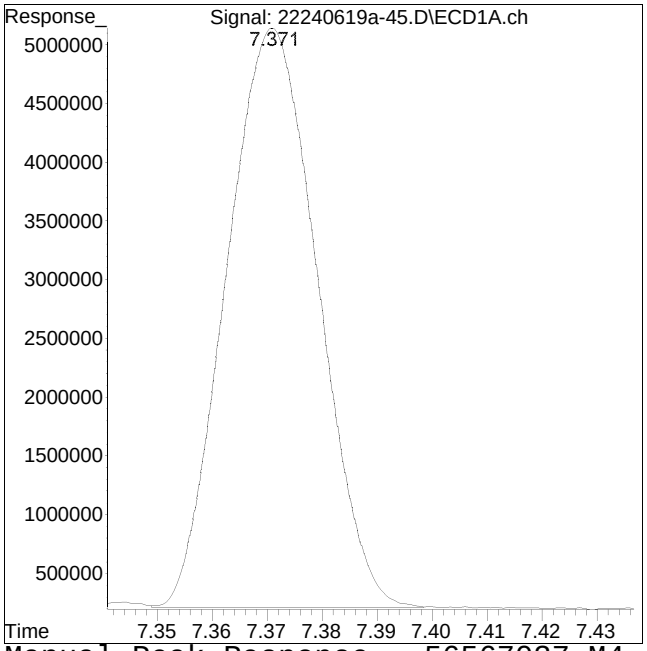
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #5: MCPP



Original Peak Response = 60693037



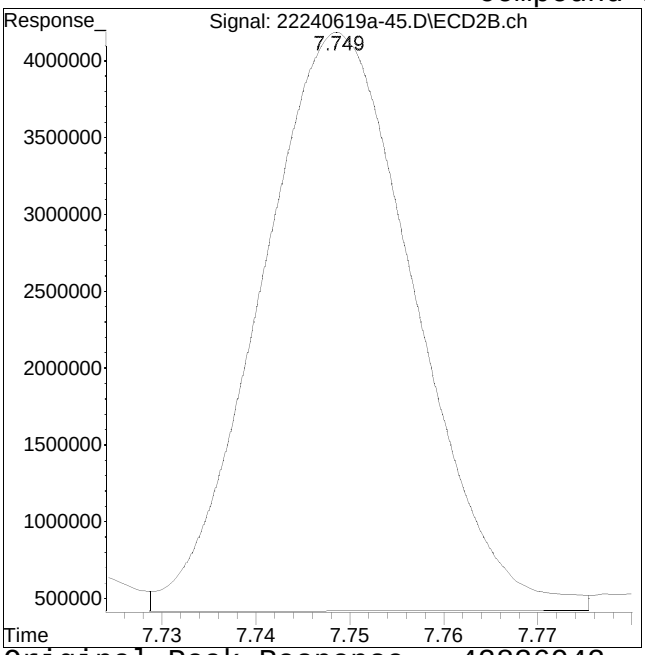
Manual Peak Response = 56567037 M4

M4 = Poor automated baseline construction.

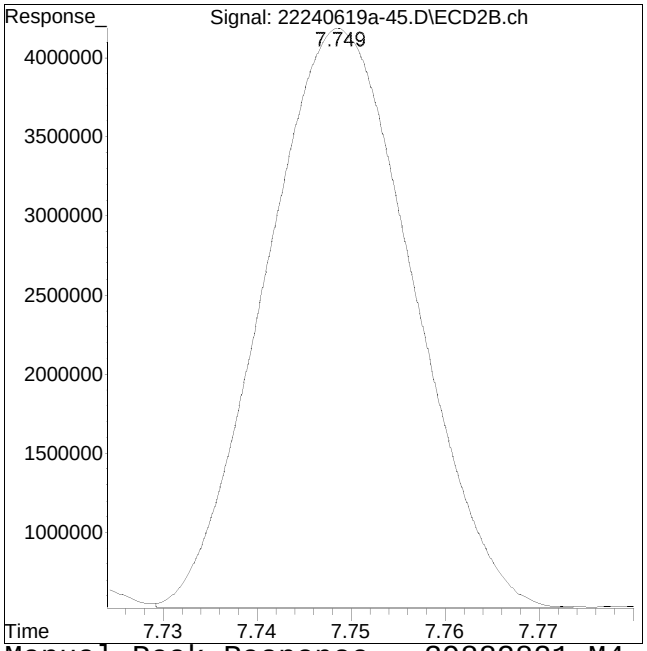
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #18: MCPP #2



Original Peak Response = 42836942



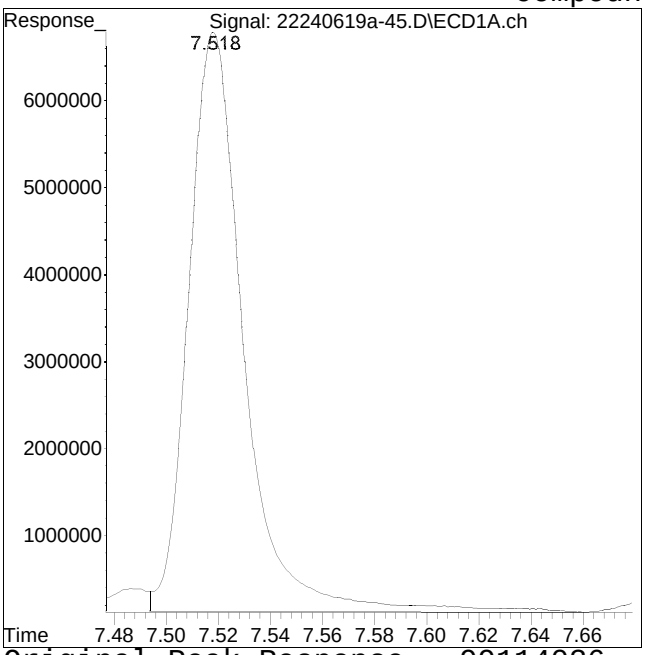
Manual Peak Response = 39882821 M4

M4 = Poor automated baseline construction.

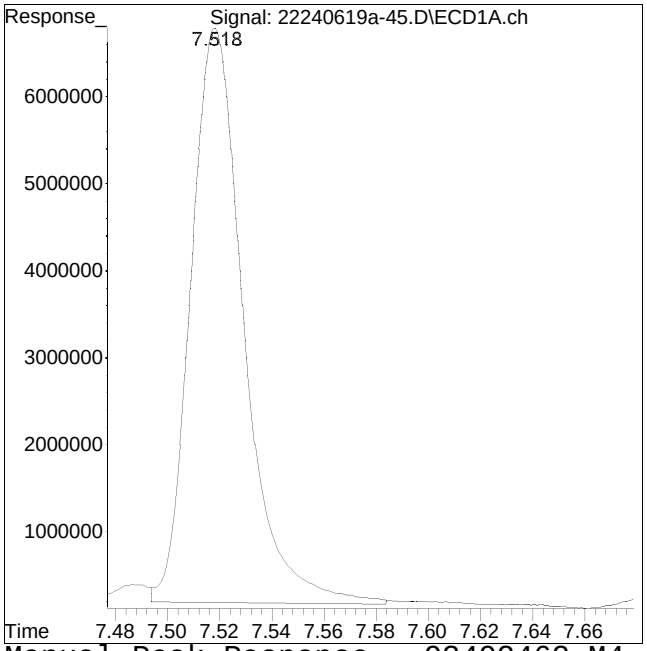
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #6: MCPA



Original Peak Response = 99114036



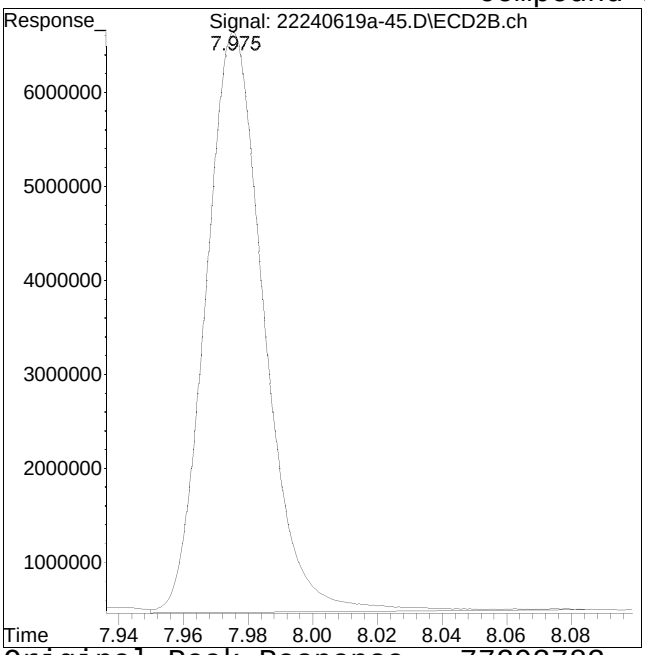
Manual Peak Response = 93492462 M4

M4 = Poor automated baseline construction.

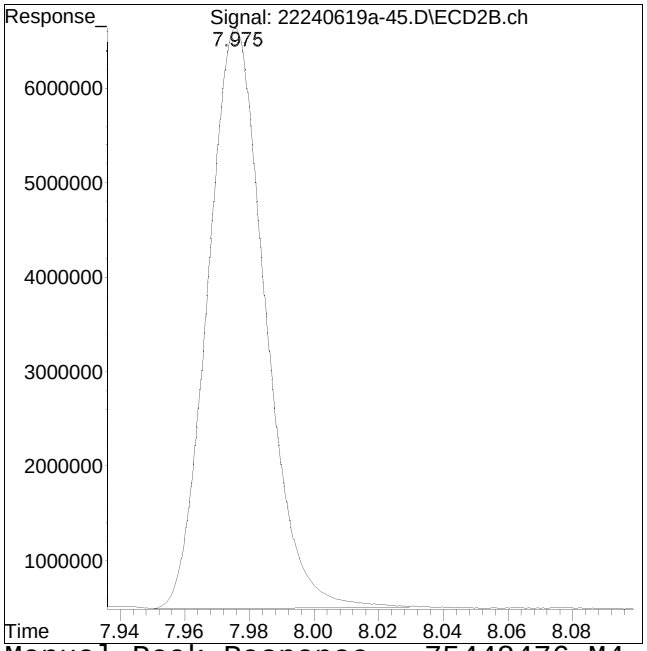
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #19: MCPA #2



Original Peak Response = 77293783



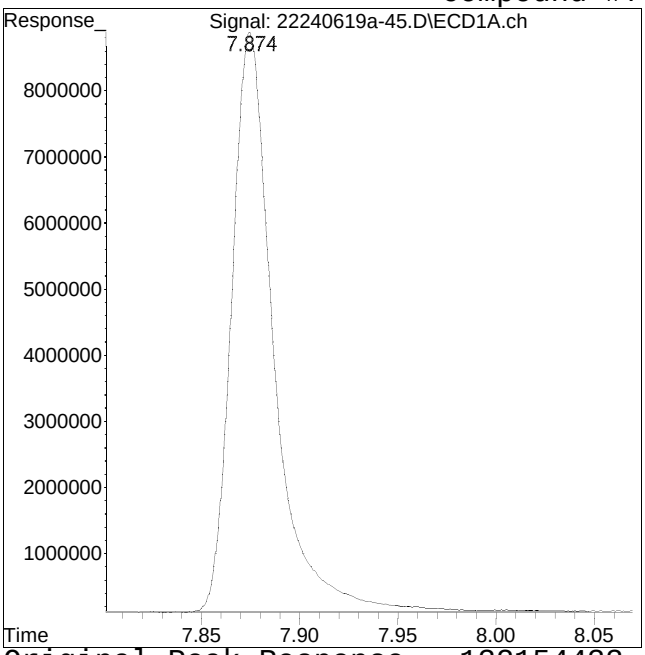
Manual Peak Response = 75448476 M4

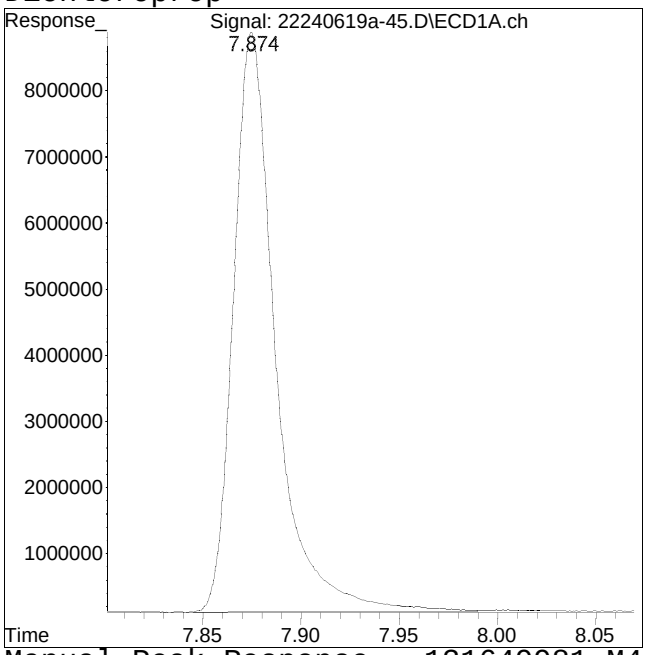
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #7: Dichloroprop



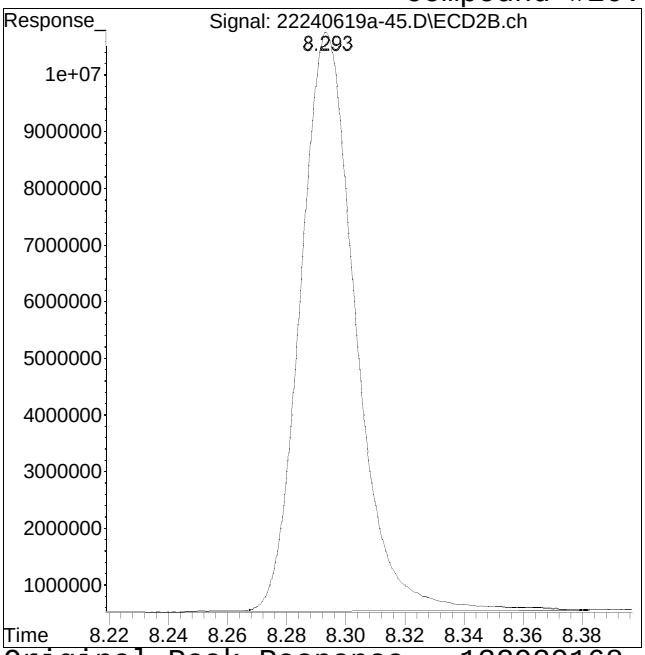


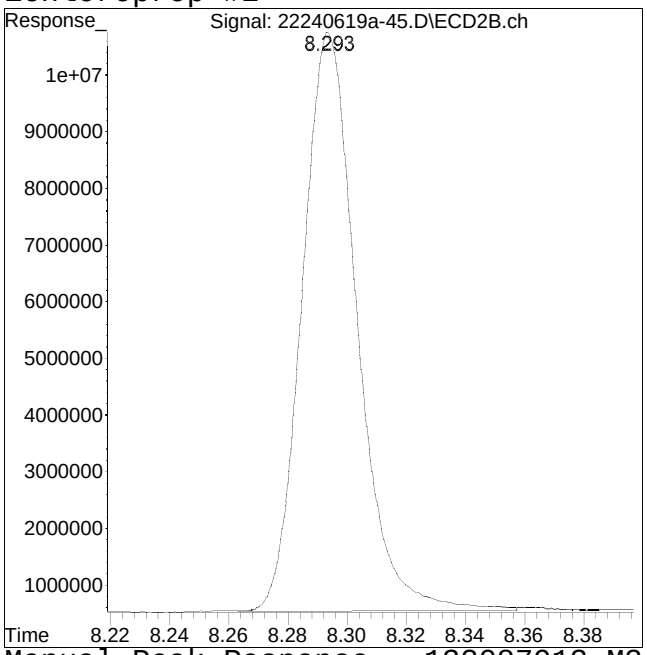
Original Peak Response = 132154433 Manual Peak Response = 131649981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #20: Dichloroprop #2



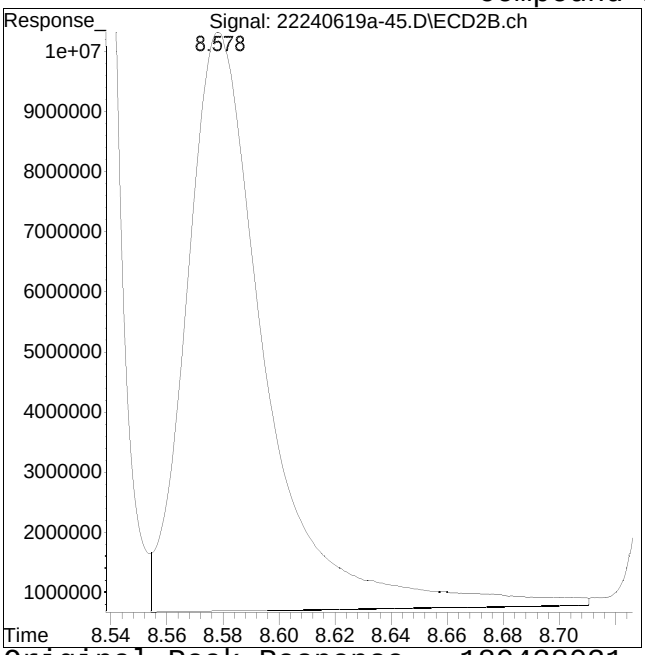


Original Peak Response = 132929168 Manual Peak Response = 132087913 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

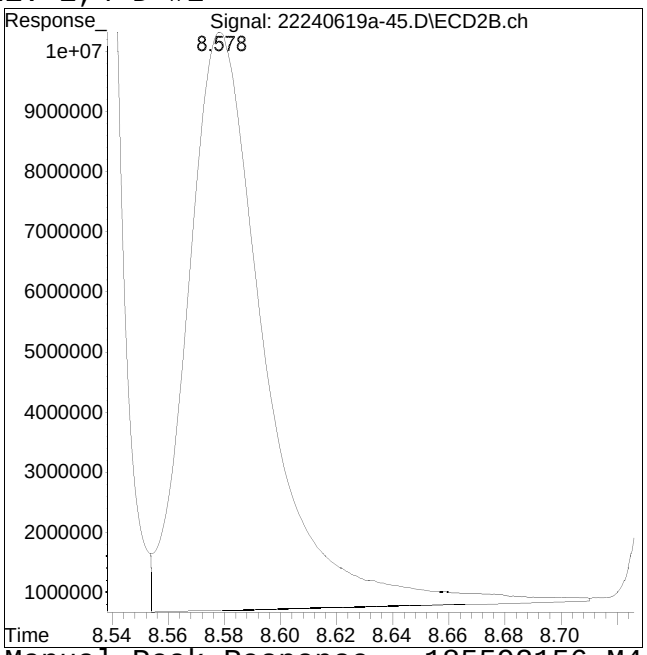
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #21: 2,4-D #2



Original Peak Response = 189438031



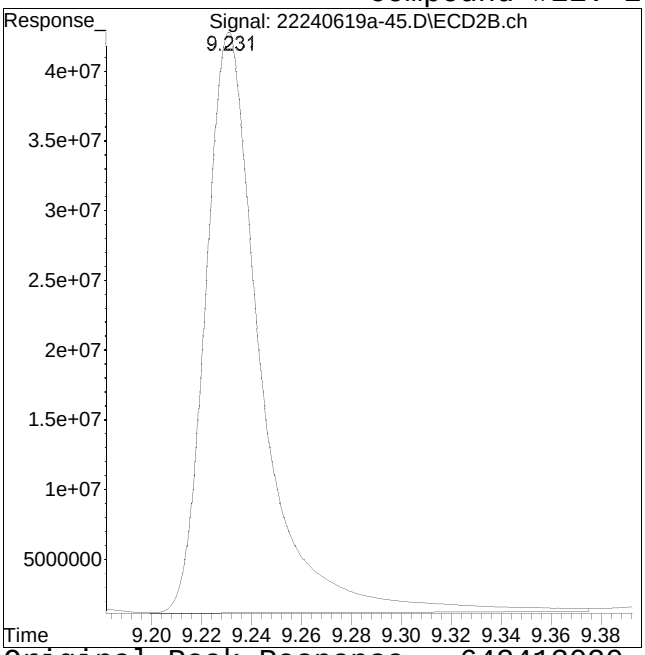
Manual Peak Response = 185592156 M4

M4 = Poor automated baseline construction.

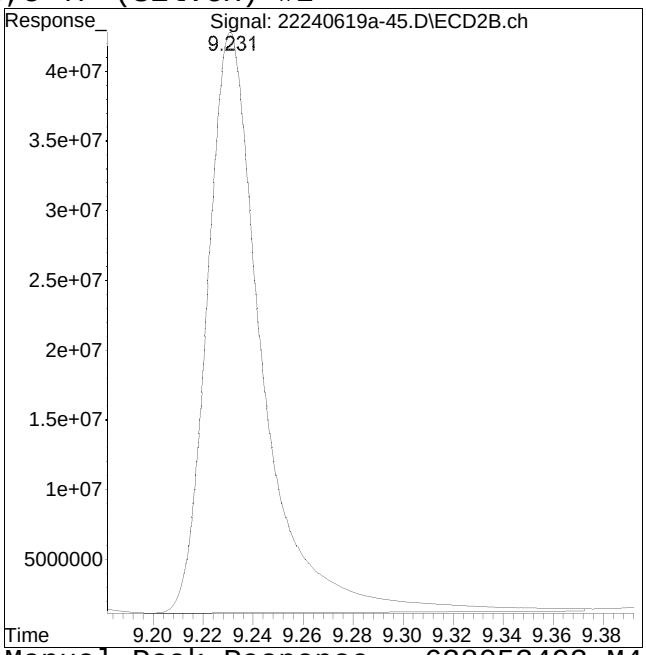
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 642413020



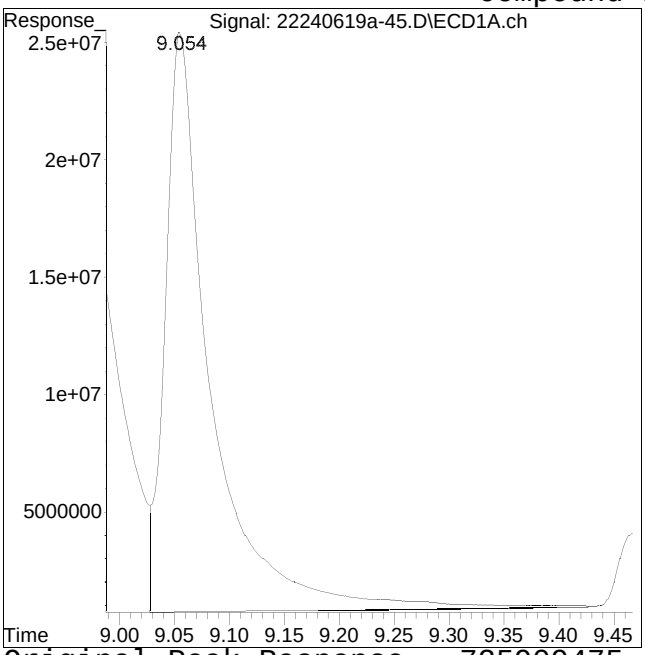
Manual Peak Response = 638053493 M4

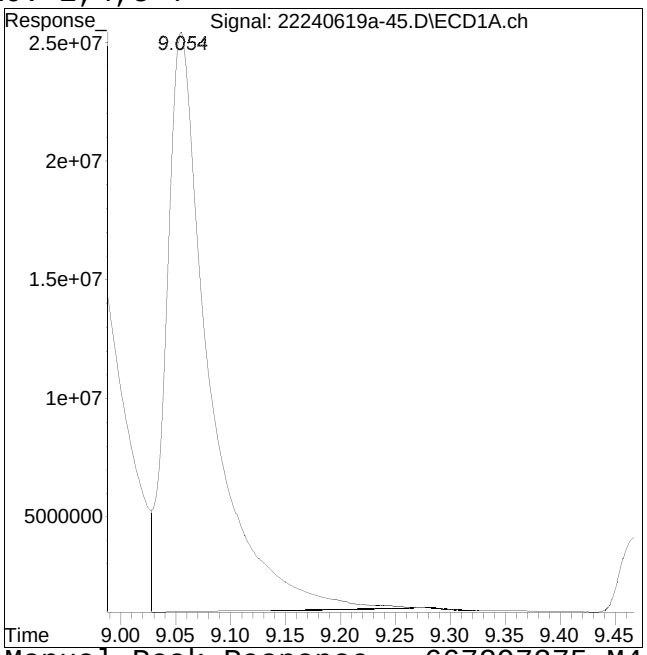
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #10: 2,4,5-T



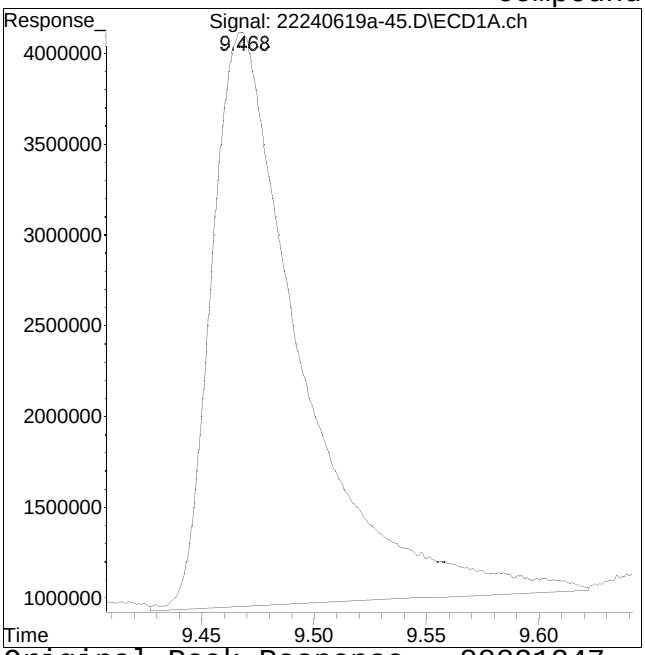


Original Peak Response = 725909475 Manual Peak Response = 667297375 M4
M4 = Poor automated baseline construction.

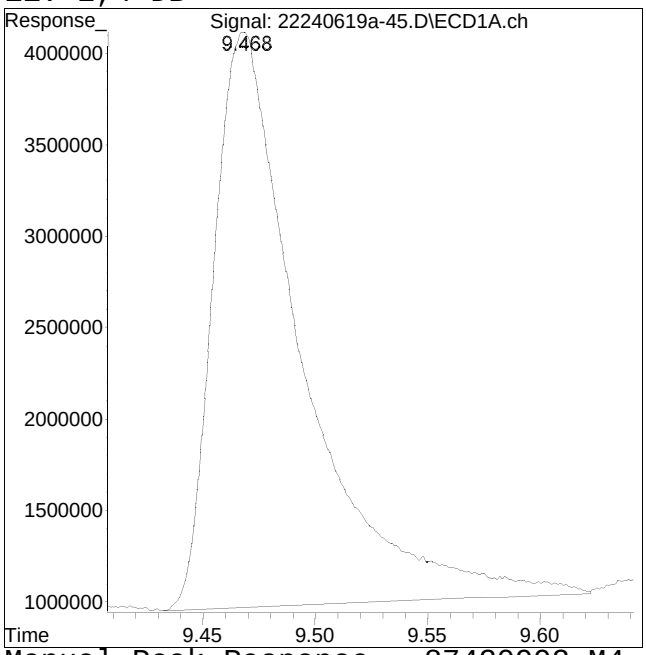
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #11: 2,4-DB



Original Peak Response = 88821247



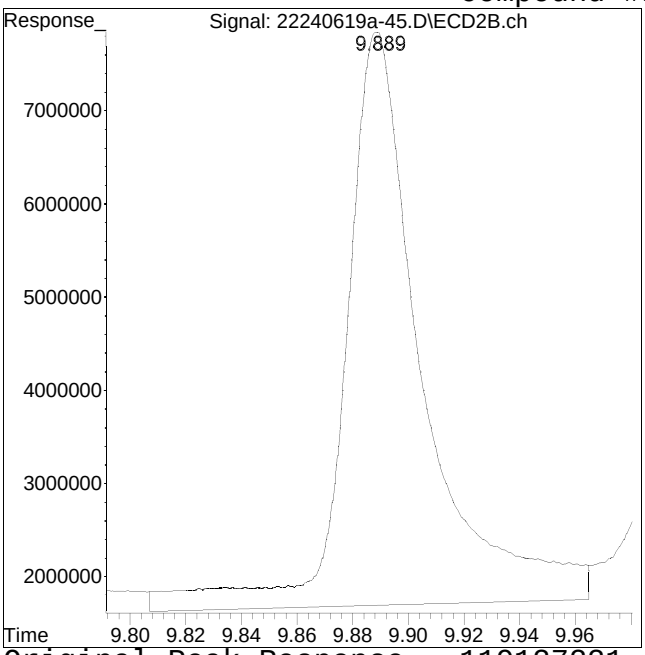
Manual Peak Response = 87430992 M4

M4 = Poor automated baseline construction.

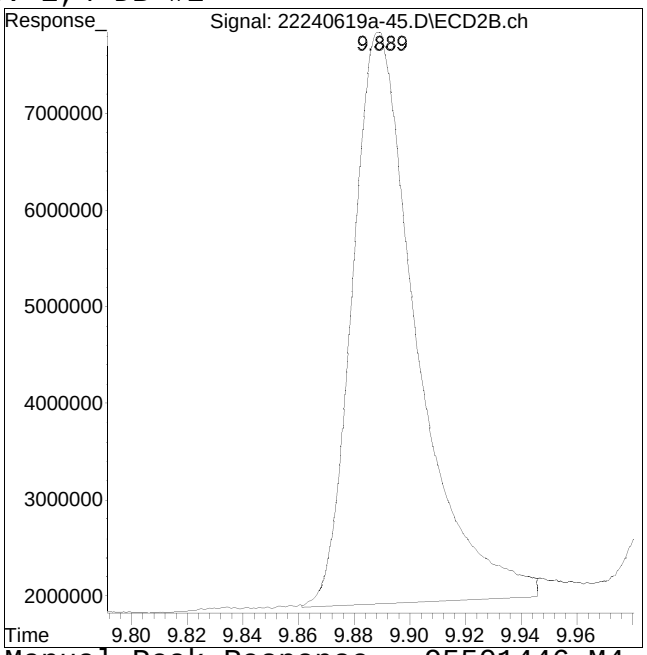
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #24: 2,4-DB #2



Original Peak Response = 119127221



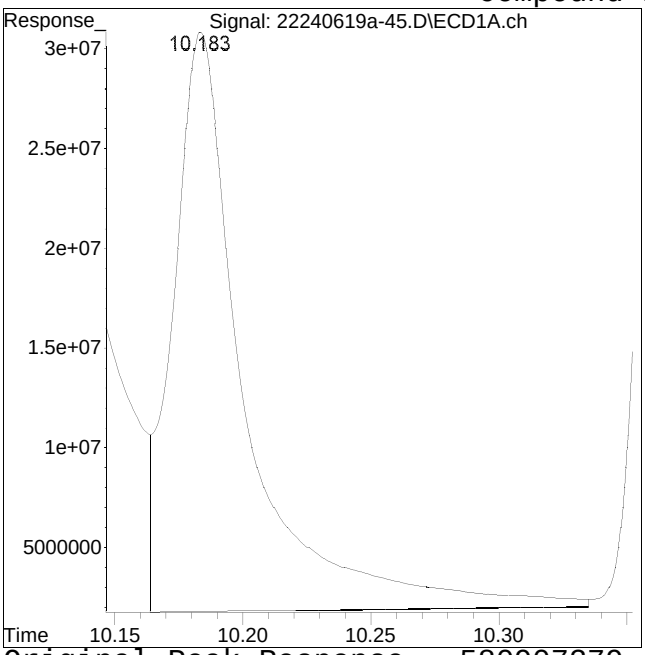
Manual Peak Response = 95501446 M4

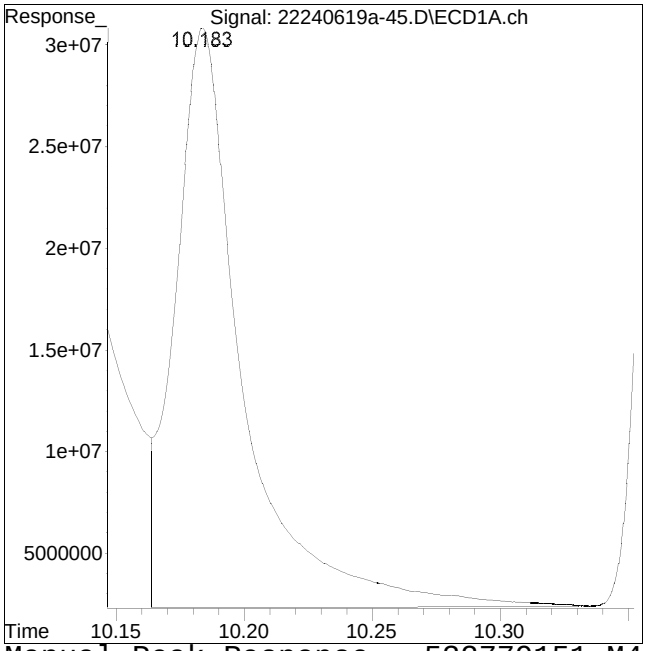
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #12: Dinoseb



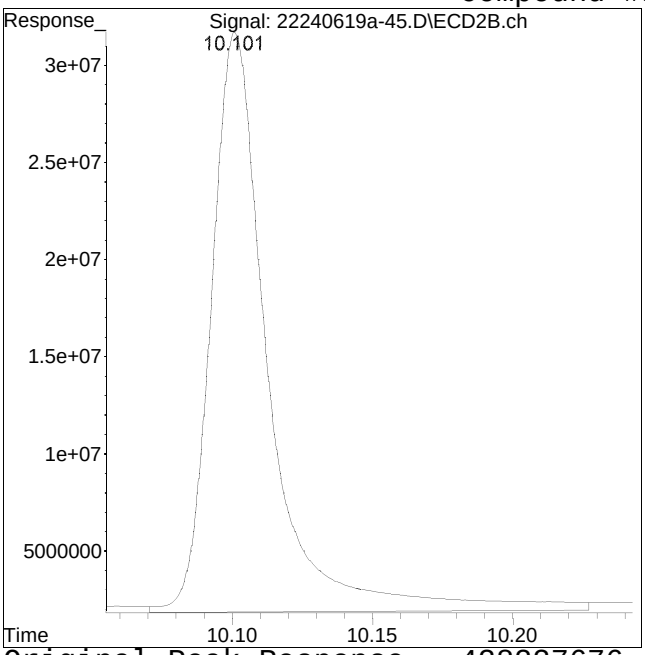


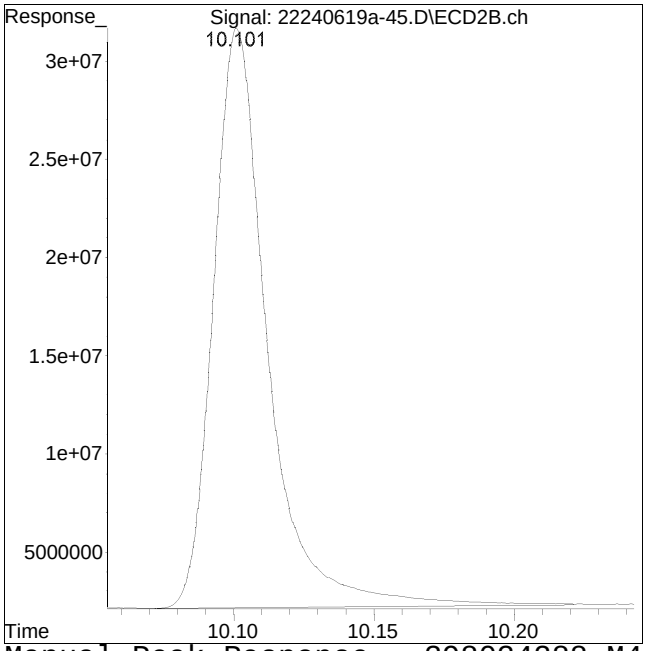
Original Peak Response = 580907379 Manual Peak Response = 532779151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-45.D Operator : pest22:peg
Date Inj'd : 6/19/2024 21:29 Instrument : Pest22
Sample : wg1936304-4,42,,herb11561 Quant Date : 6/19/2024 9:56 pm

Compound #25: Dinoseb #2





Original Peak Response = 428227676 Manual Peak Response = 398034288 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-70.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Jun 2024 05:13 am
Operator : pest22:peg
Sample   : wg1936304-6,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 70   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 07:56:47 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	124	0.00
2	t	Dalapon		0.211	0.212	-0.5	119	0.00
3	s	DCAA (surrogate)		0.206	0.212	-2.9	119	0.00
4	t	Dicamba		0.589	0.620	-5.3	121	0.00
5	t	MCPP		0.00052	0.00090	-73.1#	201#	0.00
6	t	MCPA		0.00097	0.00149	-53.6#	178#	0.00
7	t	Dichloroprop		0.193	0.200	-3.6	119	0.00
8	t	2,4-D		0.240	0.262	-9.2	126	-0.03
9	t	2,4,5-TP (Silvex)		0.868	0.909	-4.7	120	-0.02
10	t	2,4,5-T		0.853	0.990	-16.1#	135	-0.03
11	t	2,4-DB		0.132	0.129	2.3	112	-0.04
12	t	Dinoseb		0.493	0.715	-45.0#	168#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	142	0.00
2	t	Dalapon		0.197	0.196	0.5	134	0.00
3	s	DCAA (surrogate)		0.203	0.204	-0.5	134	0.00
4	t	Dicamba		0.594	0.595	-0.2	134	0.00
5	t	MCPP		0.00074	0.00061	17.6#	113	0.00
6	t	MCPA		0.00124	0.00115	7.3	124	0.00
7	t	Dichloroprop		0.192	0.197	-2.6	136	0.00
8	t	2,4-D		0.237	0.258	-8.9	147	-0.01
9	t	2,4,5-TP (Silvex)		0.856	0.941	-9.9	146	0.00
10	t	2,4,5-T		0.831	0.833	-0.2	134	-0.01
11	t	2,4-DB		0.141	0.147	-4.3	141	-0.01
12	t	Dinoseb		0.491	0.594	-21.0#	163#	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-70.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Jun 2024 05:13 am
Operator : pest22:peg
Sample   : wg1936304-6,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 70   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 07:56:47 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-70.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:13 am
Operator : pest22:peg
Sample : wg1936304-6,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 07:56:47 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.529	8.526	921.8E6	966.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.986	7.457	147.0E6	148.4E6	0.194M4	0.190M4
		Spiked Amount 0.500	Range 30 - 150		Recovery =		38.80%	38.00%
		Target Compounds						
2)	t	Dalapon	2.384	2.383	142.3E6	138.1E6	0.183M3	0.181M3
4)	t	Dicamba	7.168	7.637	430.0E6	432.3E6	0.198M4	0.188M4
5)	t	MCPP	7.370	7.748	62594921	44454349	32.579M4	15.630M4
6)	t	MCPA	7.517	7.975	101.9E6	82709040	28.576M4	17.264M4
7)	t	Dichloroprop	7.873	8.293	138.9E6	142.9E6	0.195M4	0.193M4
8)	t	2,4-D	8.109f	8.575	181.3E6	187.5E6	0.205M4	0.204M4
9)	t	2,4,5-TP (Si	8.812f	9.229	636.8E6	690.5E6	0.199	0.209M4
10)	t	2,4,5-T	9.047f	9.524	693.8E6	611.3E6	0.221M4	0.190
11)	t	2,4-DB	9.455f	9.884	91291239	109.2E6	0.187M4	0.201M4
12)	t	Dinoseb	10.182	10.100	501.3E6	435.8E6	0.276M4	0.230M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-70.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:13 am
Operator : pest22:peg
Sample : wg1936304-6,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 07:56:47 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

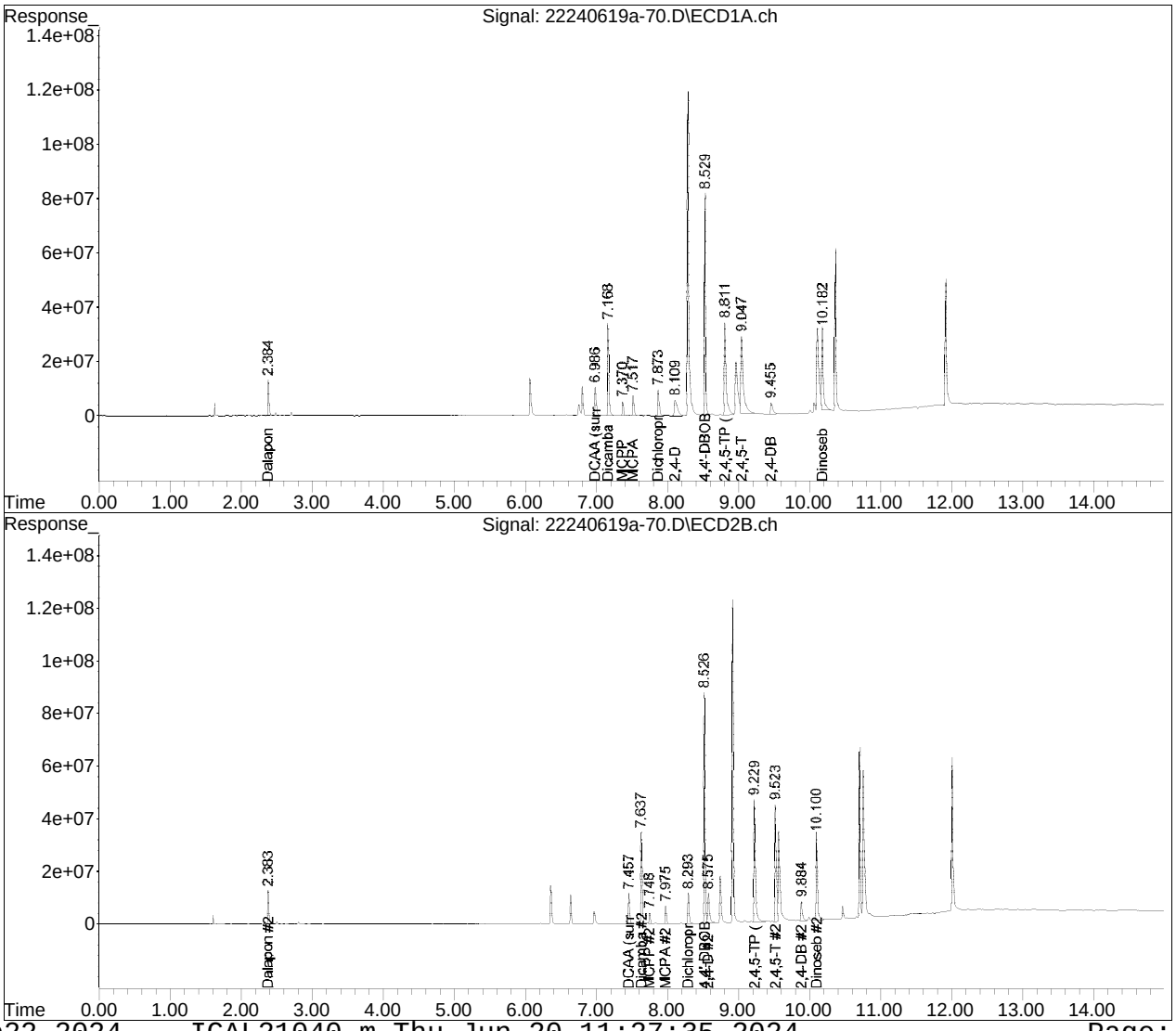
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-70.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:13 am
Operator : pest22:peg
Sample : wg1936304-6,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 07:56:47 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

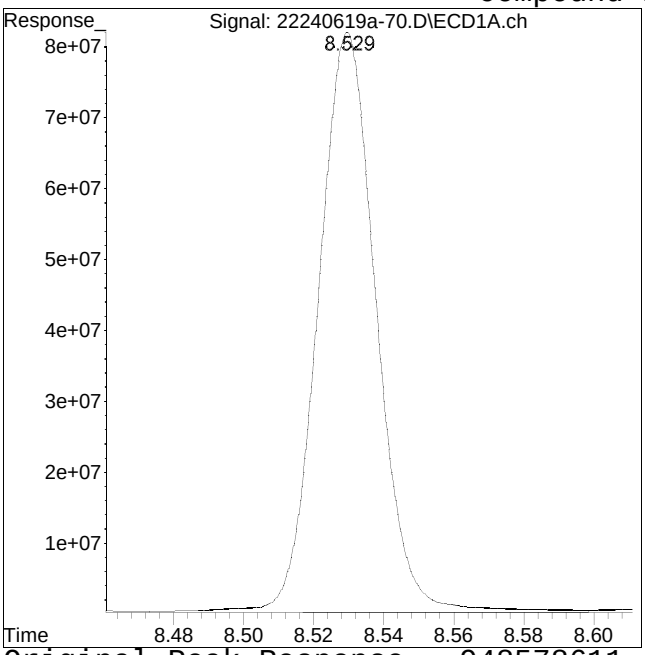
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

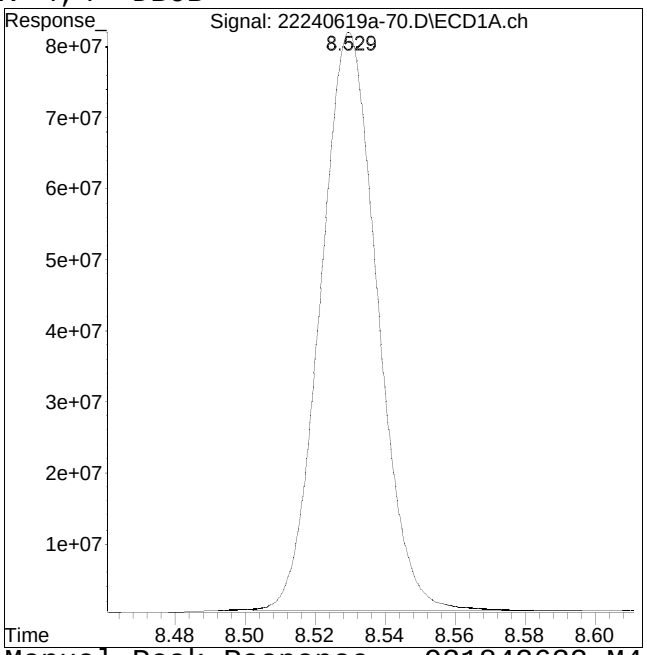


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #1: 4,4'-DBOB



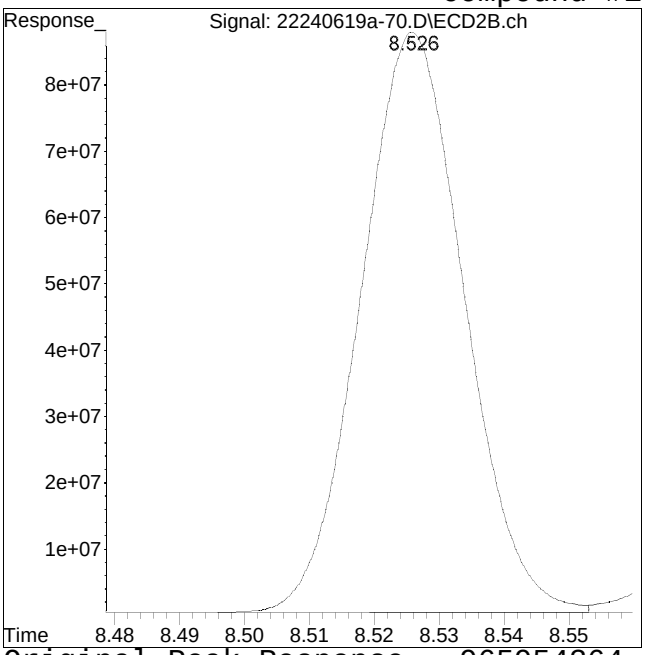


Original Peak Response = 948578611 Manual Peak Response = 921842632 M4
M4 = Poor automated baseline construction.

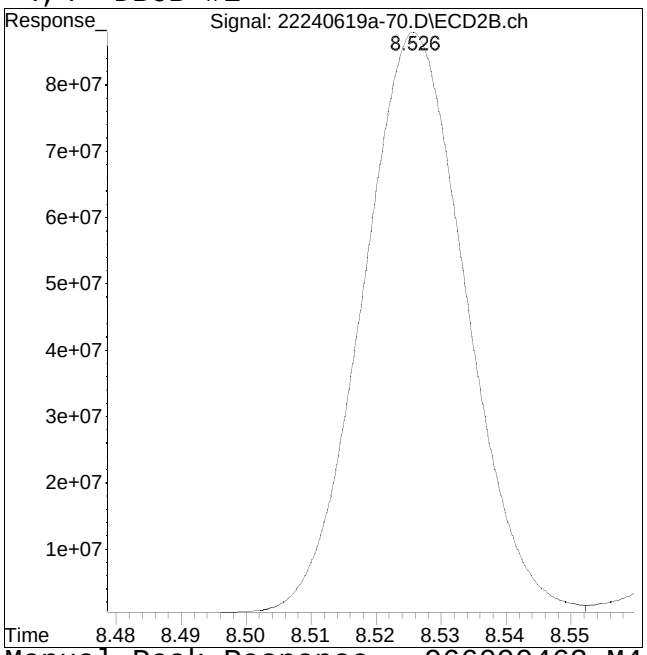
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 965954364

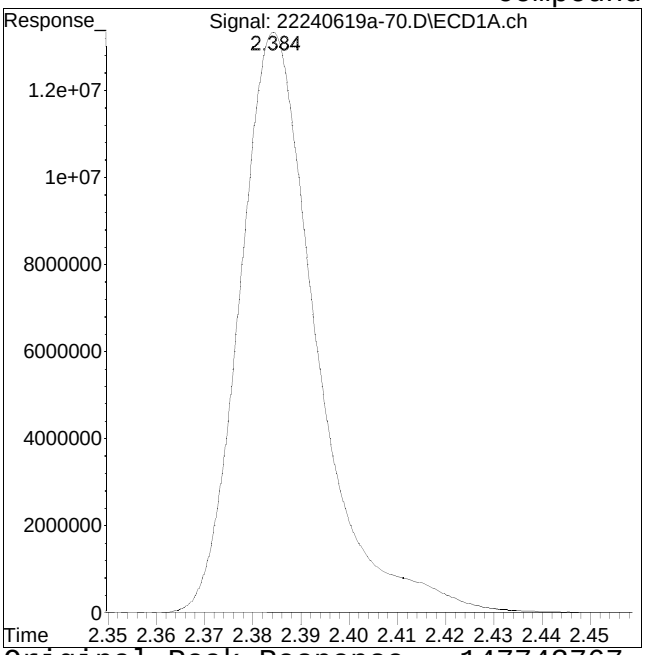


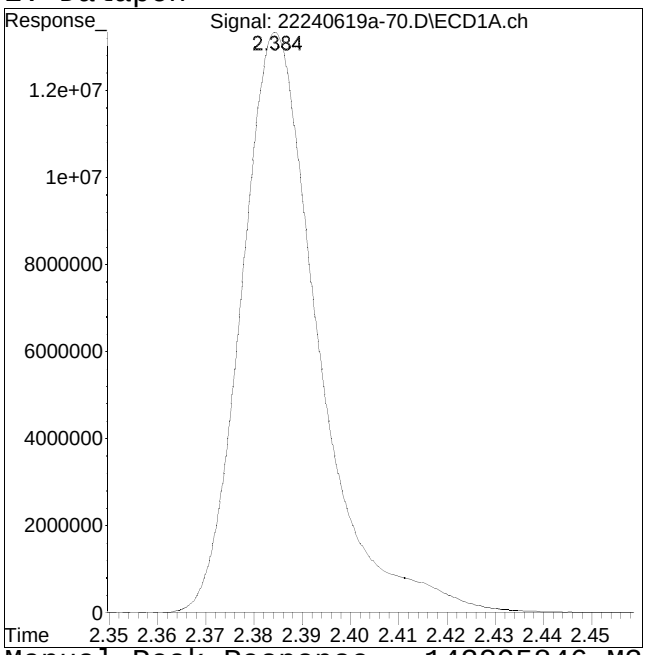
Manual Peak Response = 966090463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #2: Dalapon



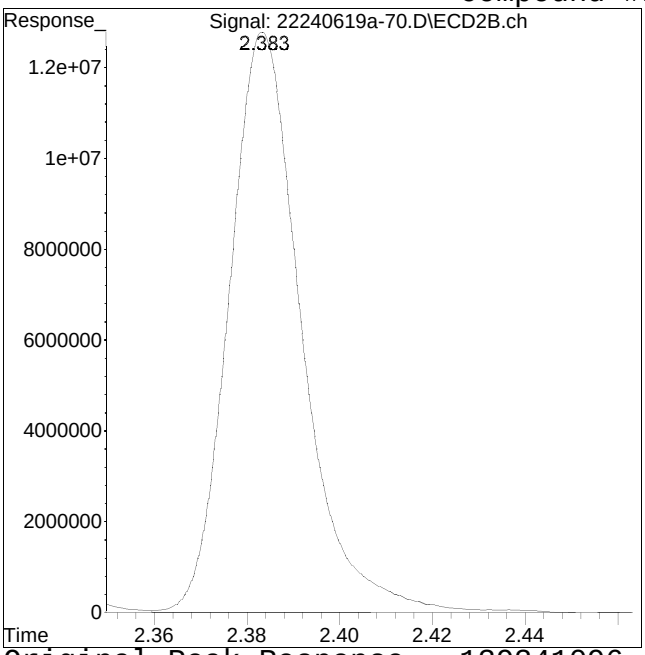


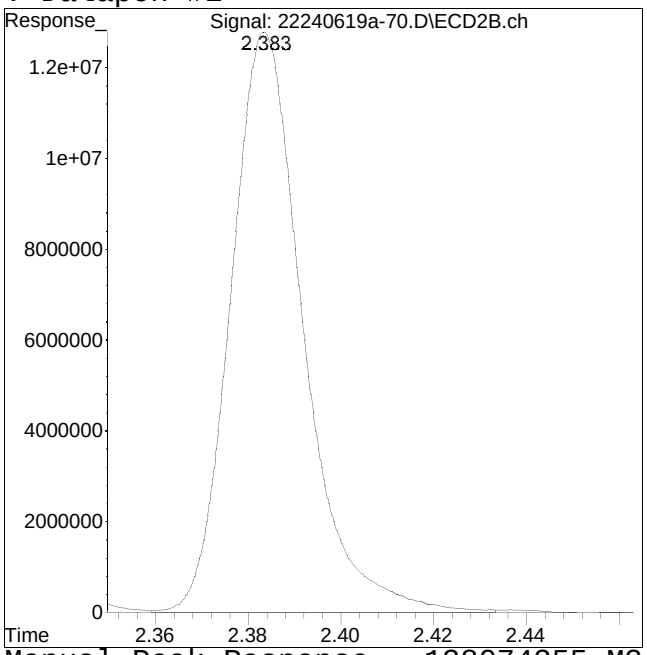
Original Peak Response = 147743767 Manual Peak Response = 142295846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #15: Dalapon #2



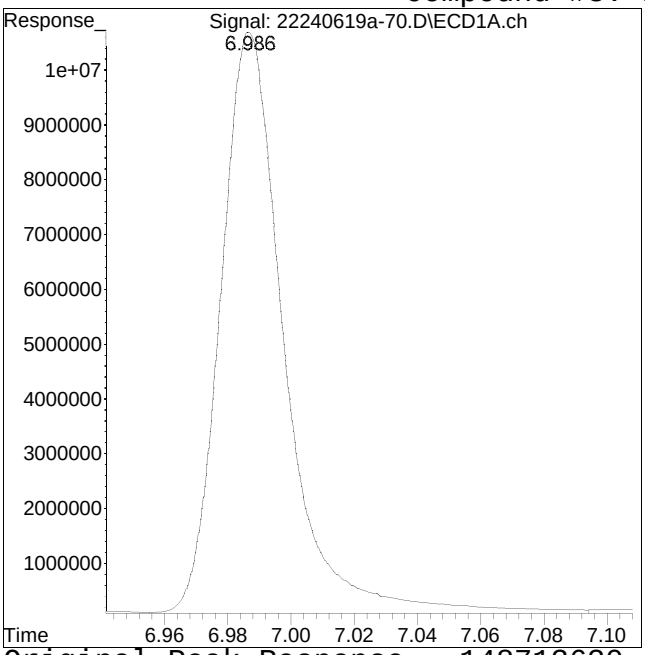


Original Peak Response = 139341096 Manual Peak Response = 138074355 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

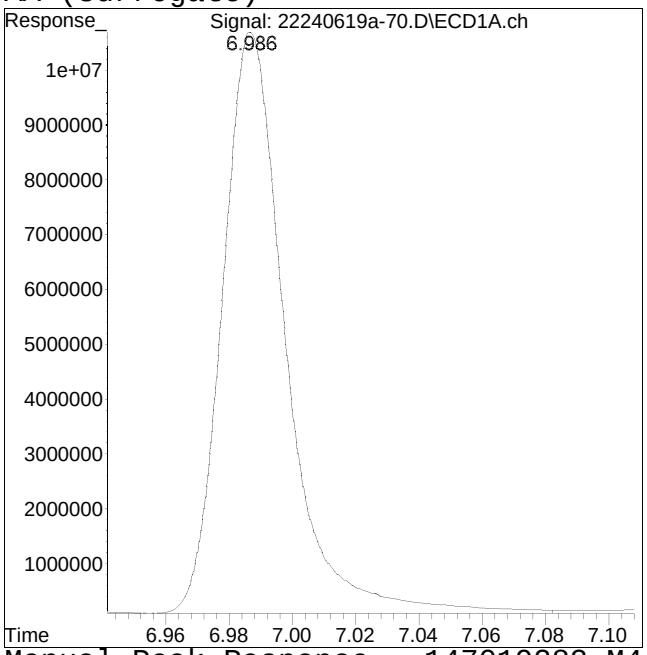
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #3: DCAA (surrogate)



Original Peak Response = 148713630



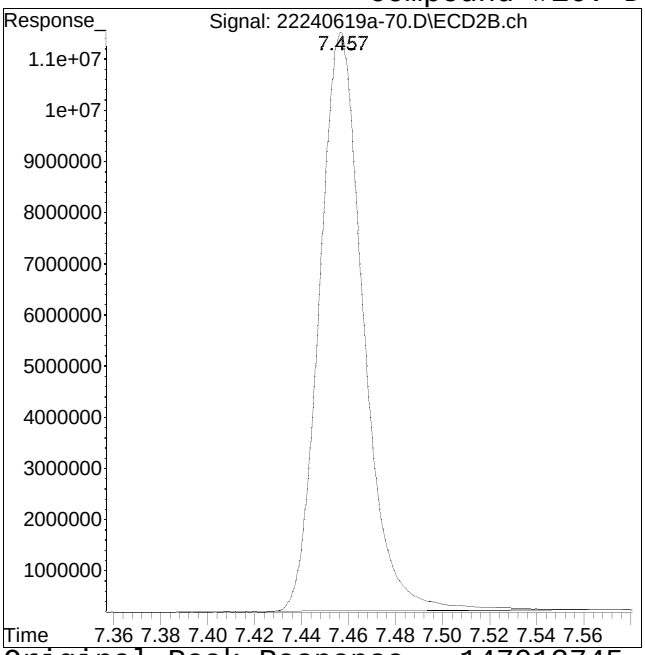
Manual Peak Response = 147019282 M4

M4 = Poor automated baseline construction.

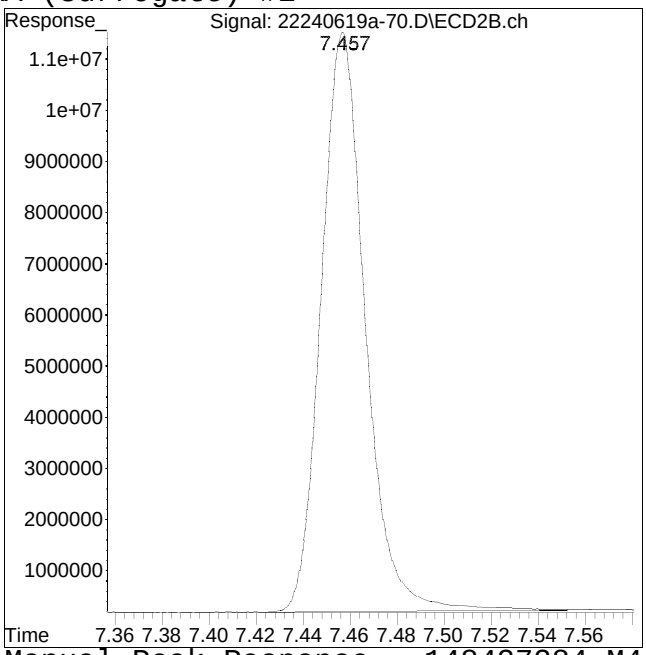
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 147013745



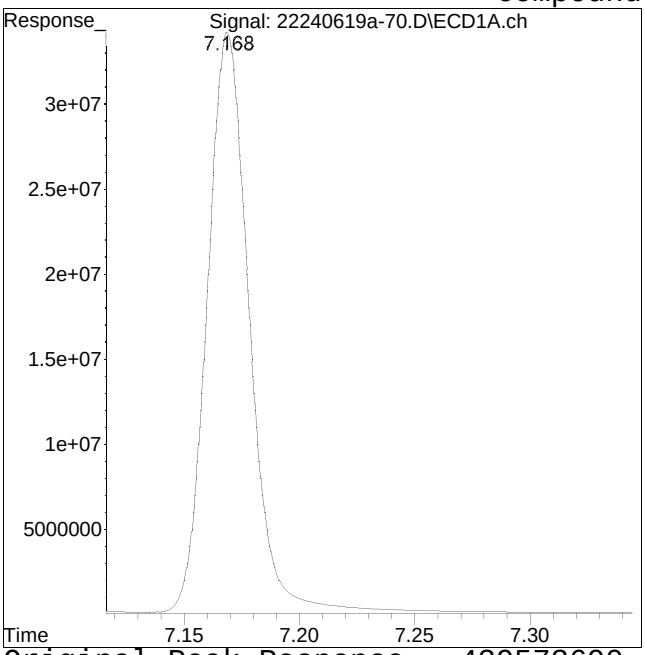
Manual Peak Response = 148427284 M4

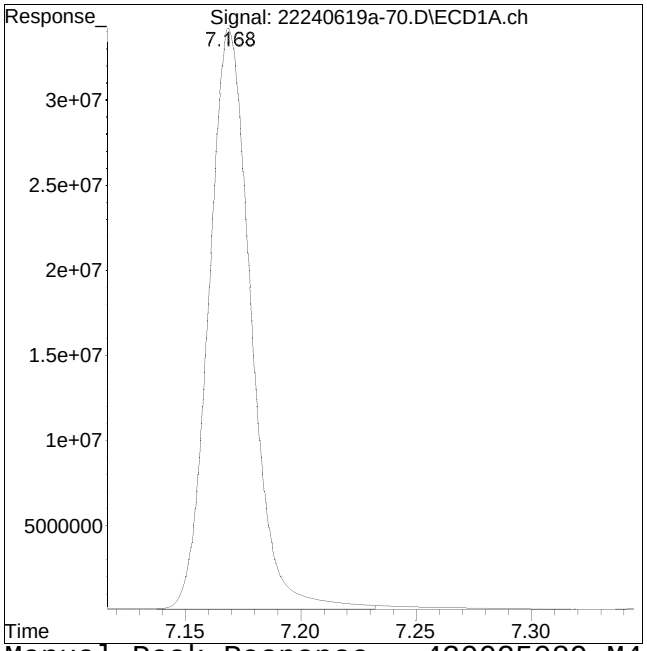
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #4: Dicamba



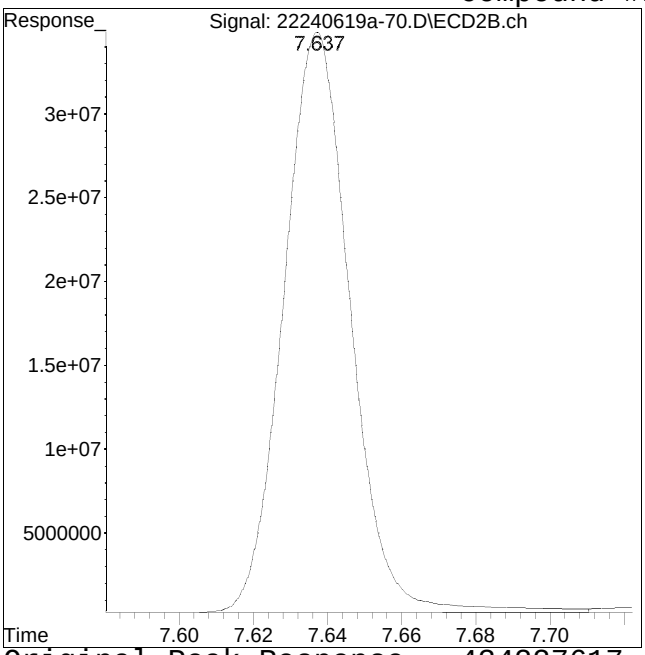


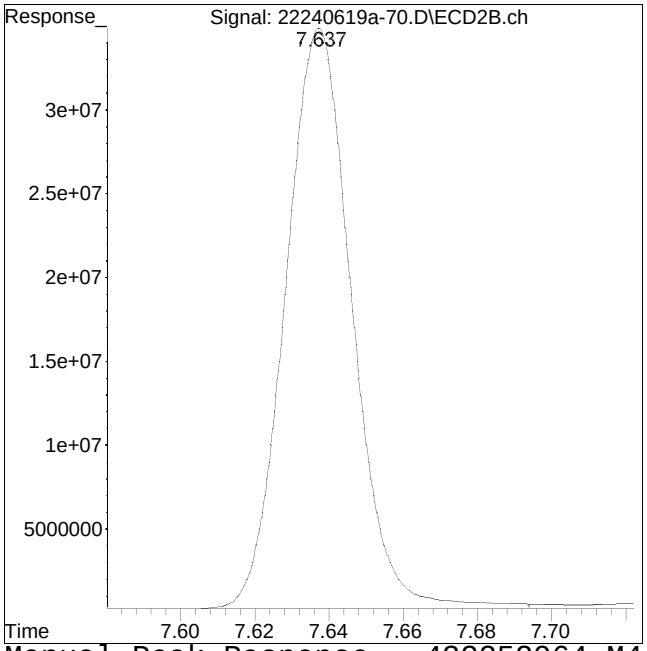
Original Peak Response = 439573690 Manual Peak Response = 430025089 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #17: Dicamba #2



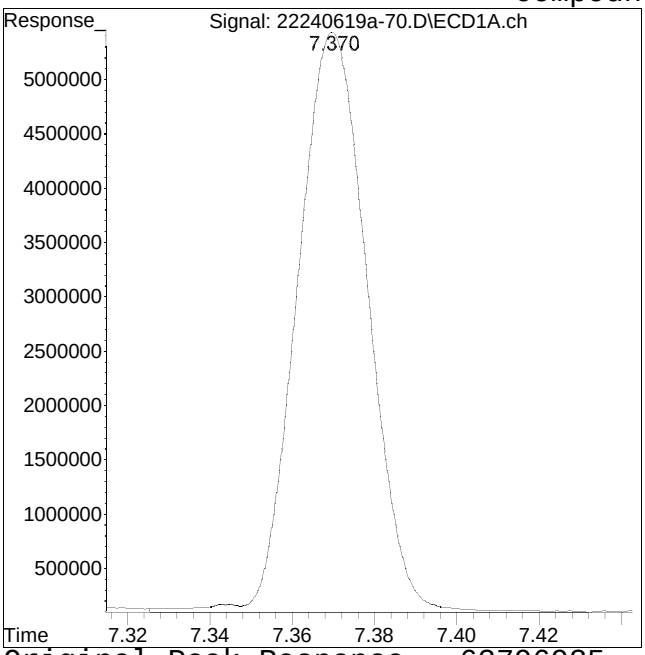


Original Peak Response = 434227617 Manual Peak Response = 432252964 M4
M4 = Poor automated baseline construction.

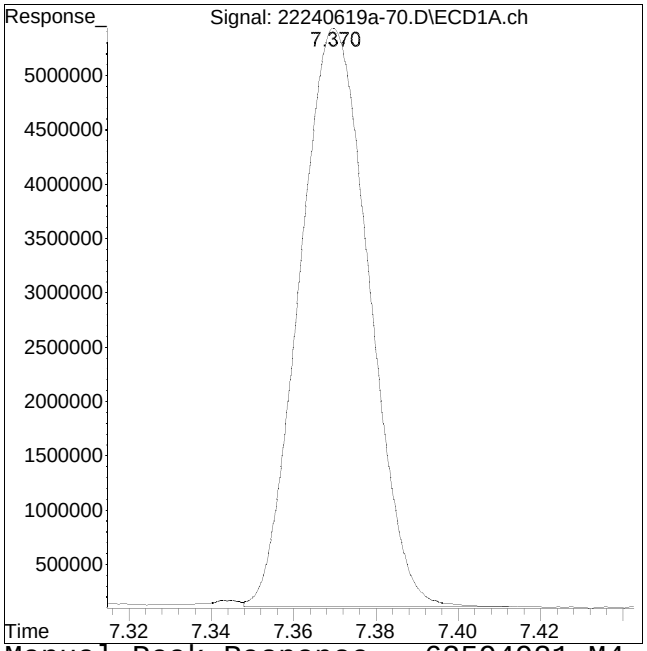
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #5: MCPP



Original Peak Response = 63796935



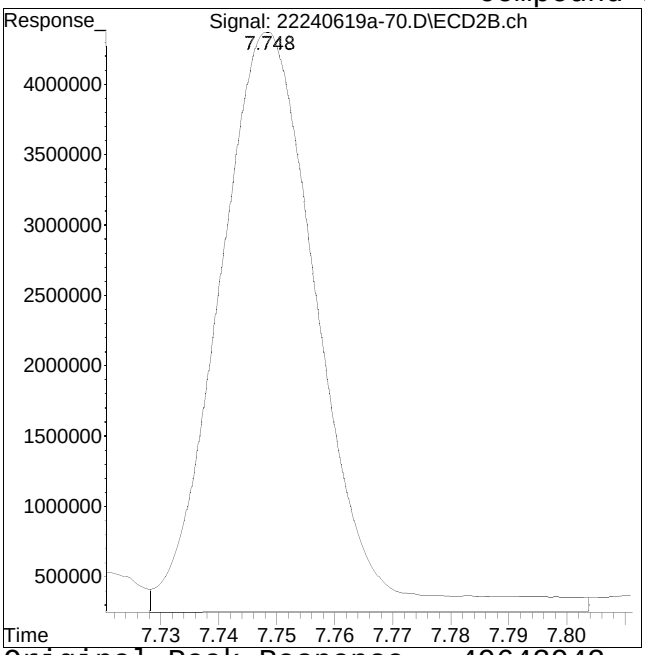
Manual Peak Response = 62594921 M4

M4 = Poor automated baseline construction.

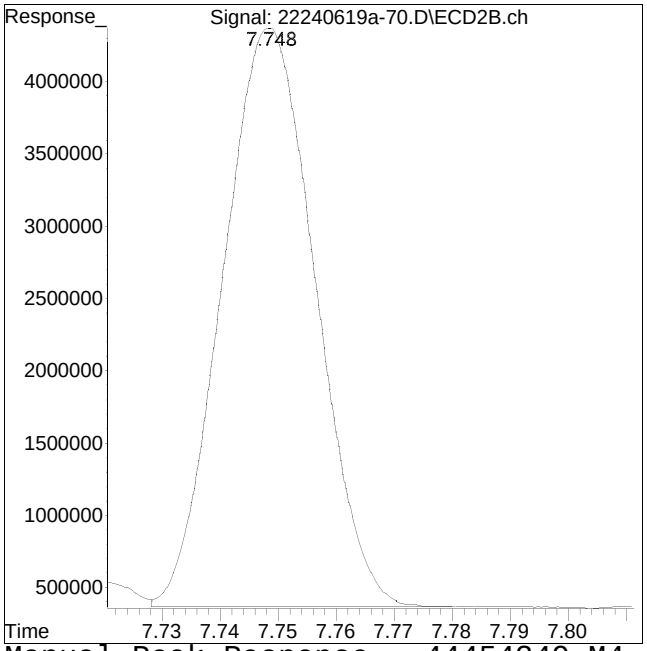
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #18: MCPP #2



Original Peak Response = 49643942



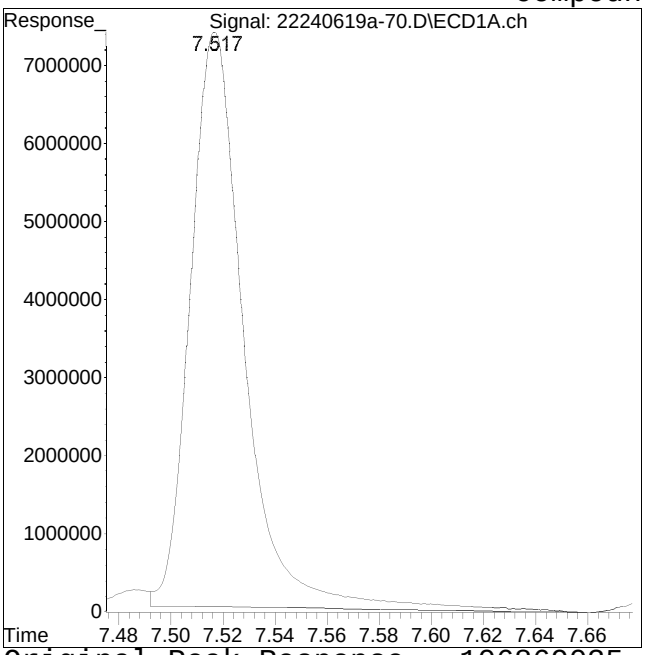
Manual Peak Response = 44454349 M4

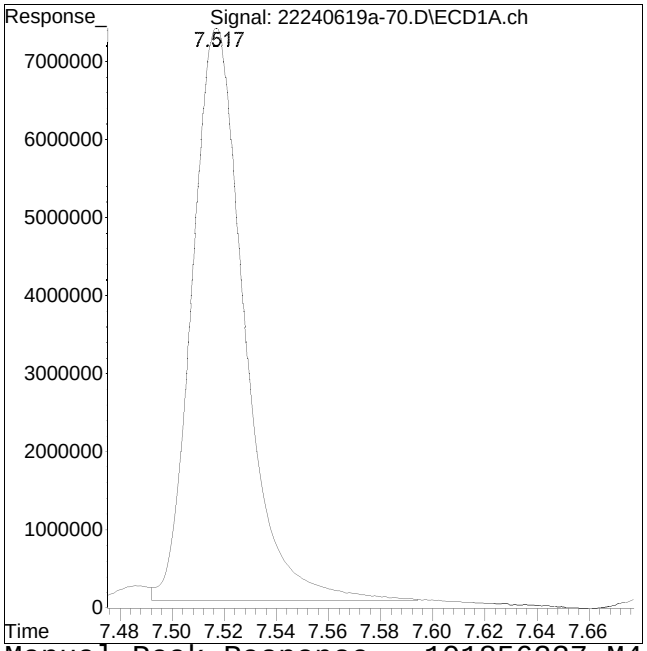
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #6: MCPA



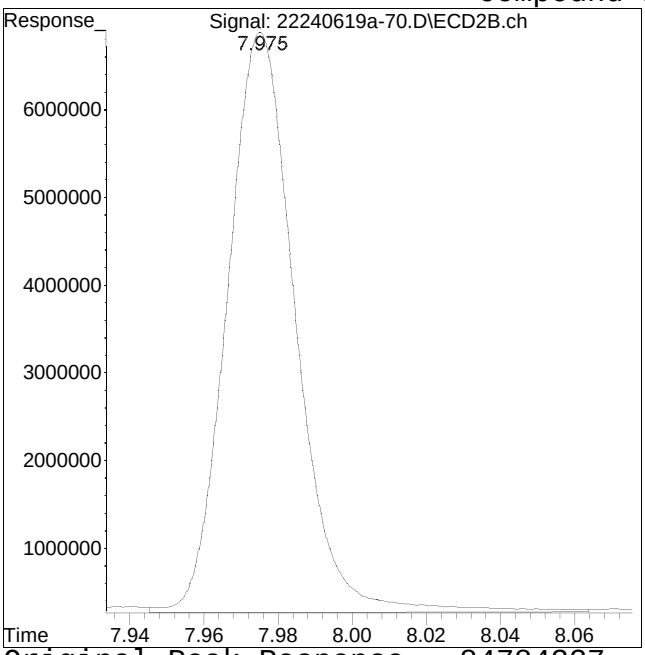


Original Peak Response = 106869035 Manual Peak Response = 101856237 M4
M4 = Poor automated baseline construction.

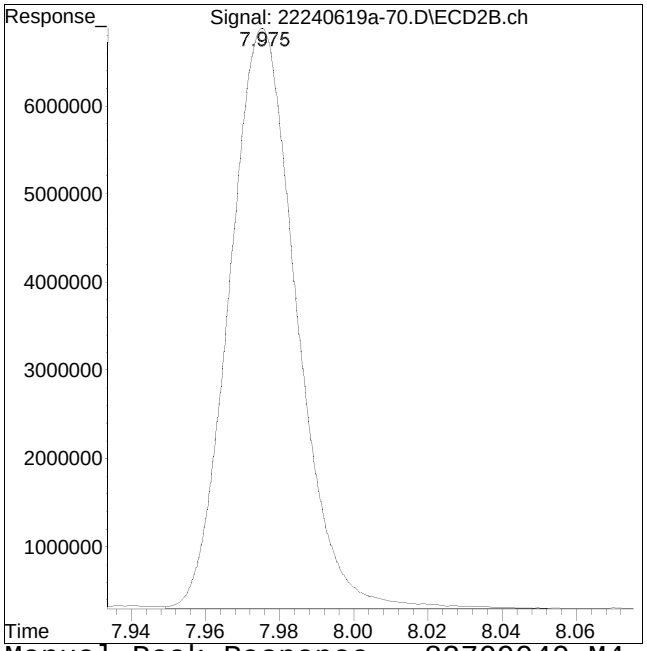
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #19: MCPA #2



Original Peak Response = 84784337



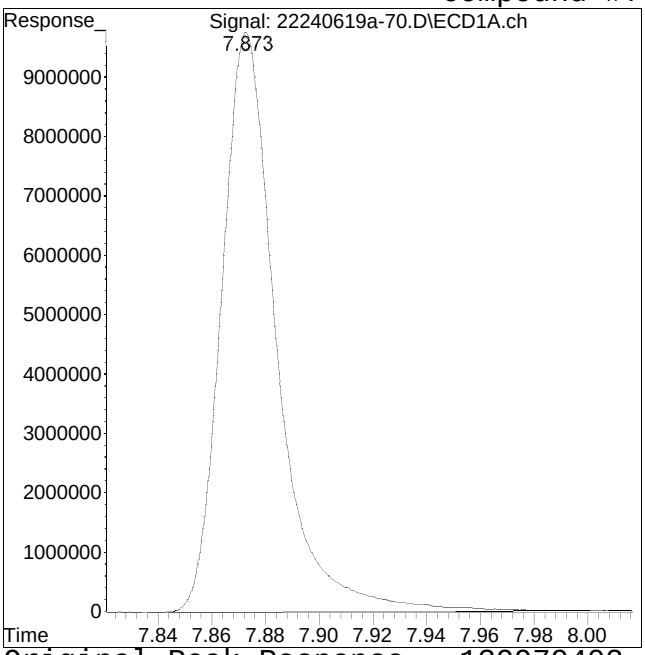
Manual Peak Response = 82709040 M4

M4 = Poor automated baseline construction.

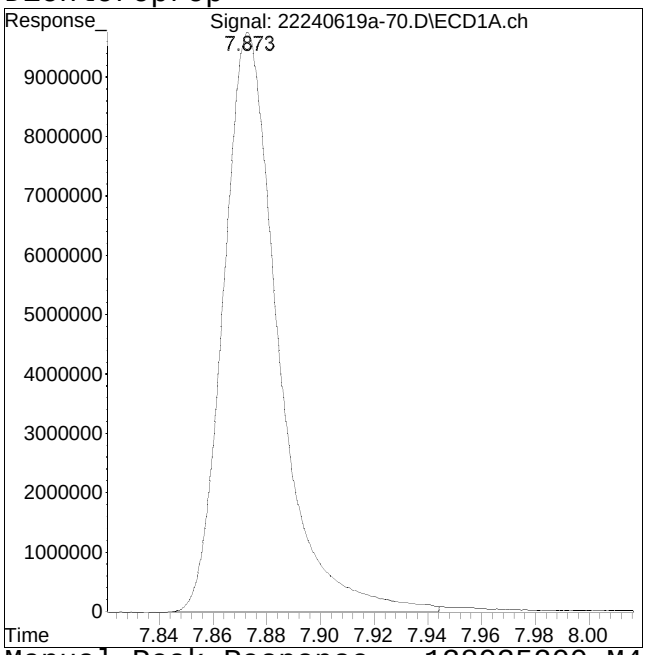
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #7: Dichloroprop



Original Peak Response = 139979402



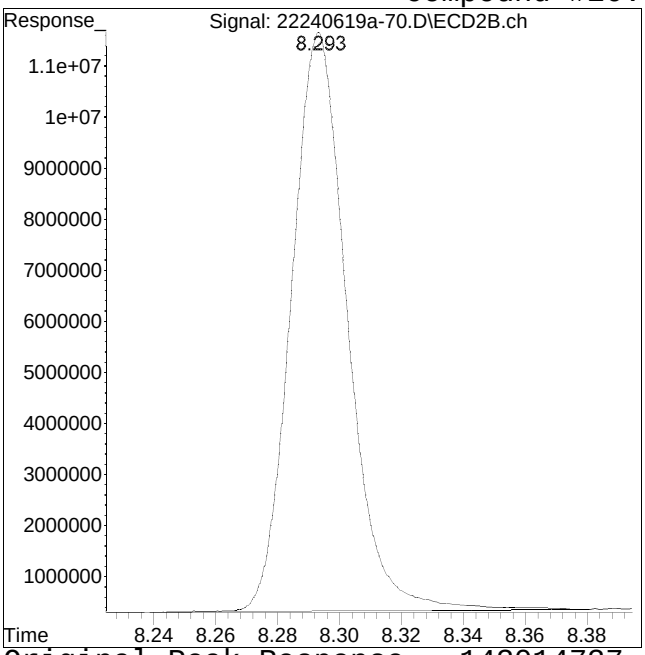
Manual Peak Response = 138935200 M4

M4 = Poor automated baseline construction.

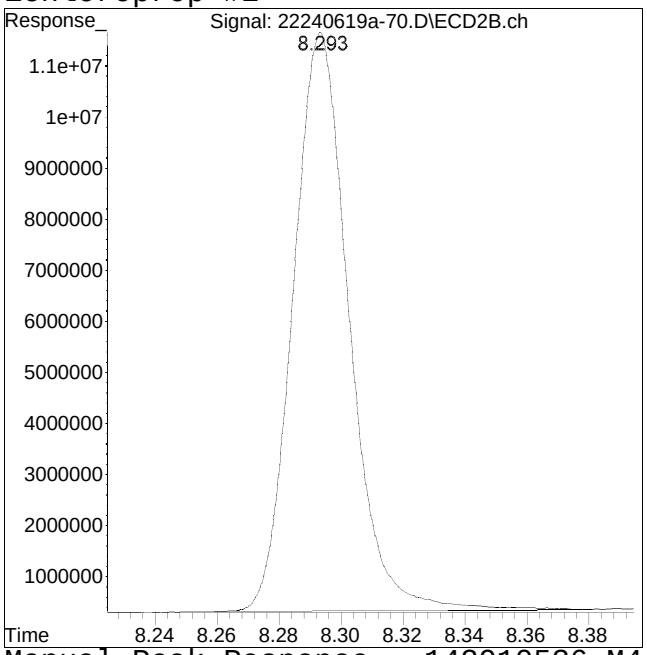
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #20: Dichloroprop #2



Original Peak Response = 143014737

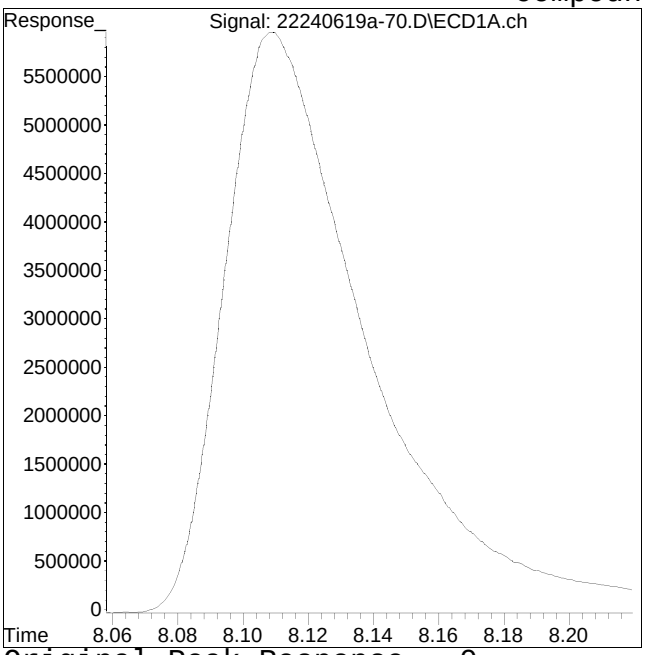


Manual Peak Response = 142910536 M4
M4 = Poor automated baseline construction.

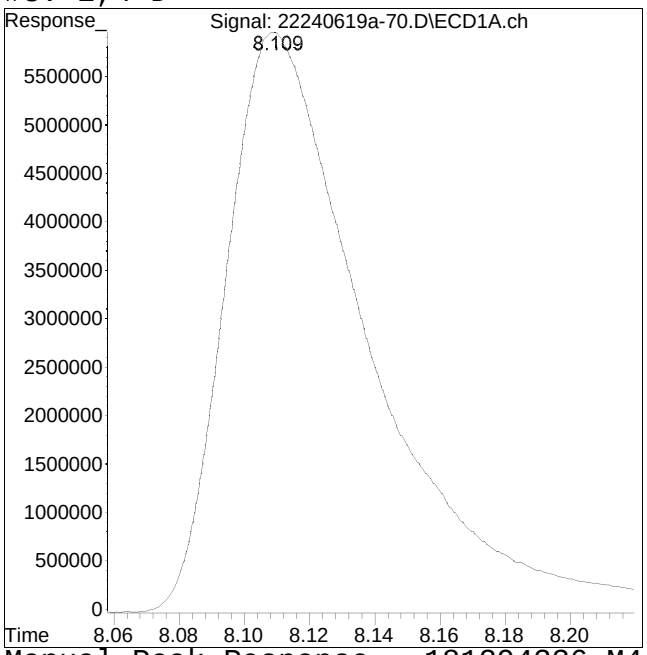
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #8: 2,4-D



Original Peak Response = 0



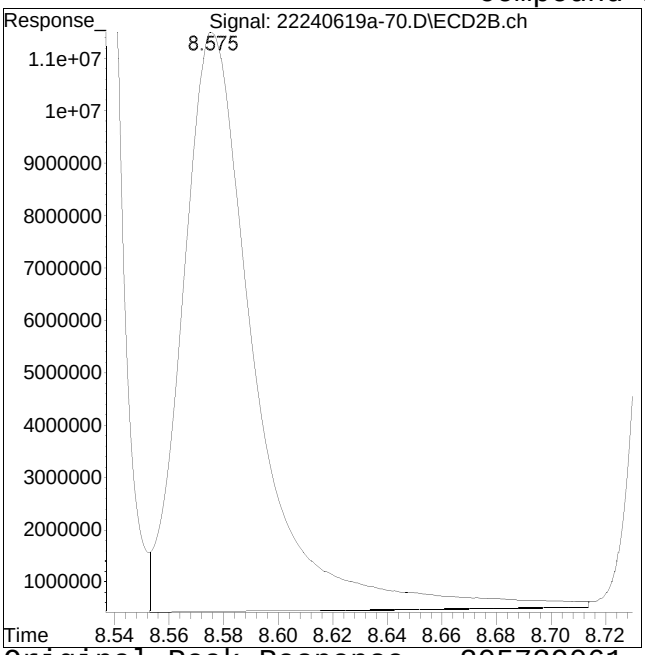
Manual Peak Response = 181294336 M4

M4 = Poor automated baseline construction.

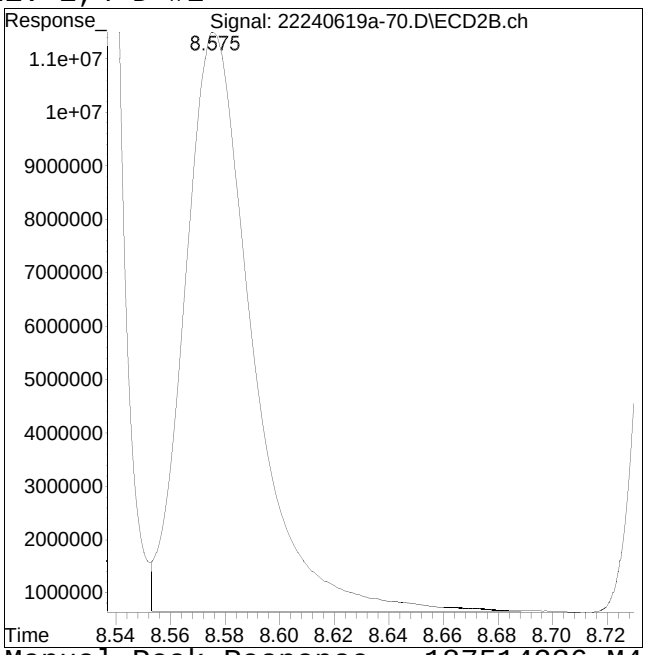
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #21: 2,4-D #2



Original Peak Response = 205739061



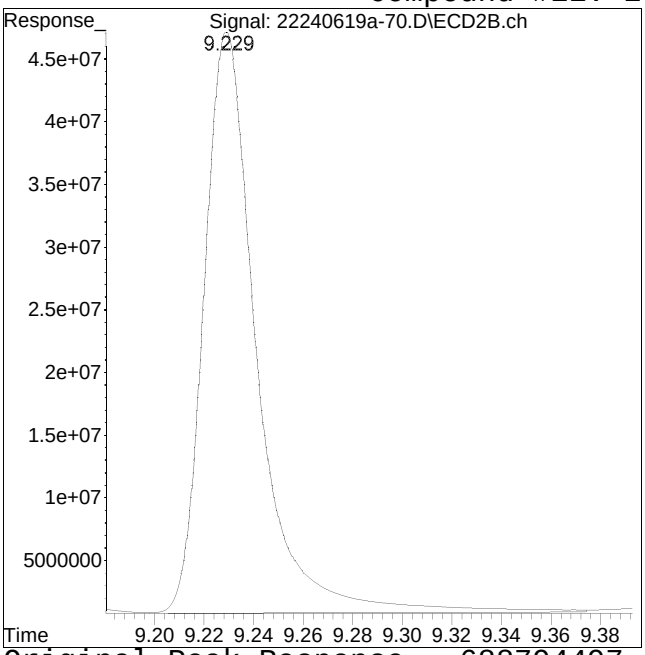
Manual Peak Response = 187514236 M4

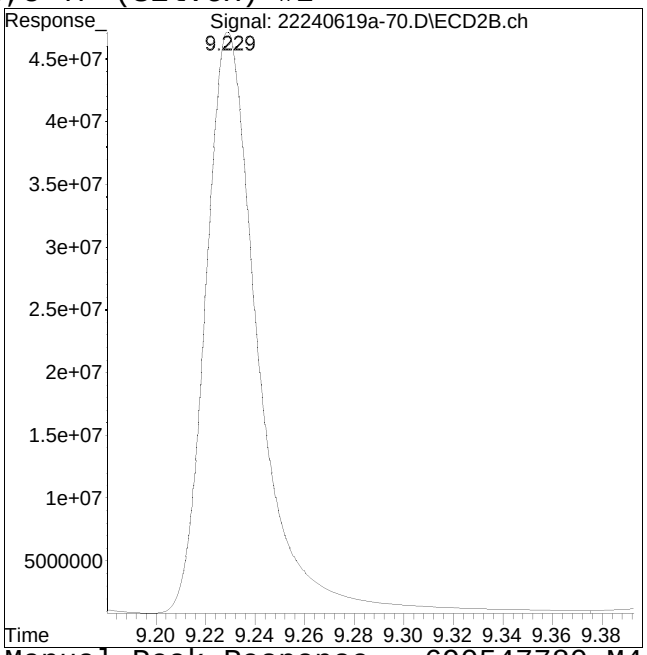
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #22: 2,4,5-TP (Silvex) #2



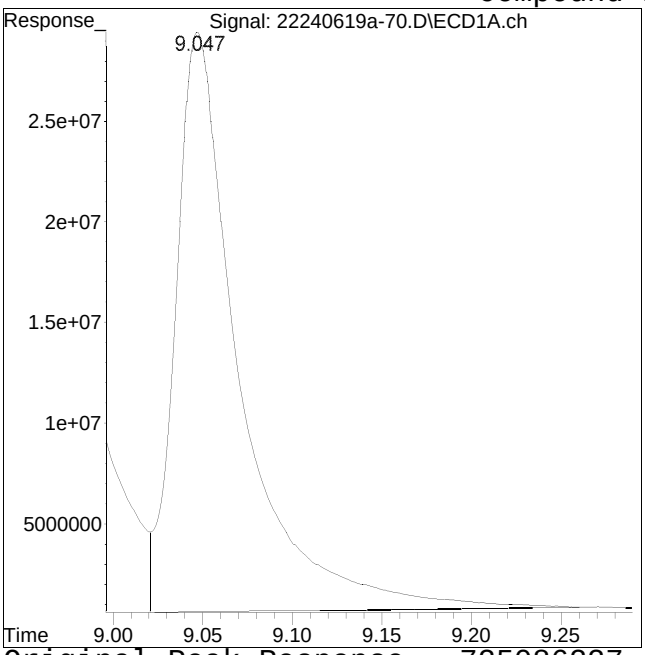


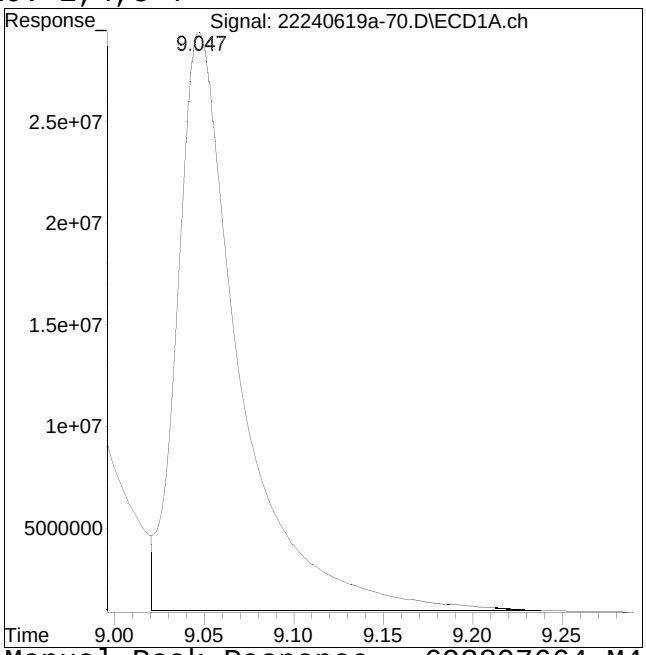
Original Peak Response = 688794497 Manual Peak Response = 690547780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #10: 2,4,5-T



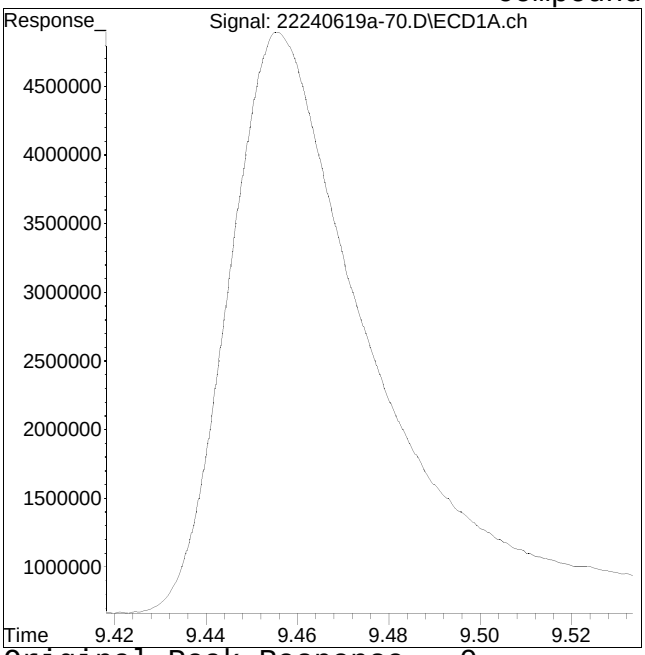


Original Peak Response = 725086227 Manual Peak Response = 693807664 M4
M4 = Poor automated baseline construction.

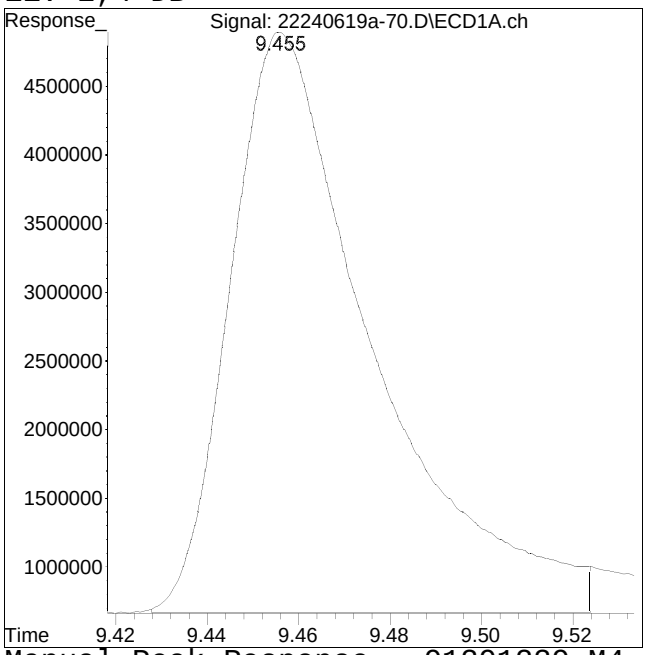
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #11: 2,4-DB



Original Peak Response = 0



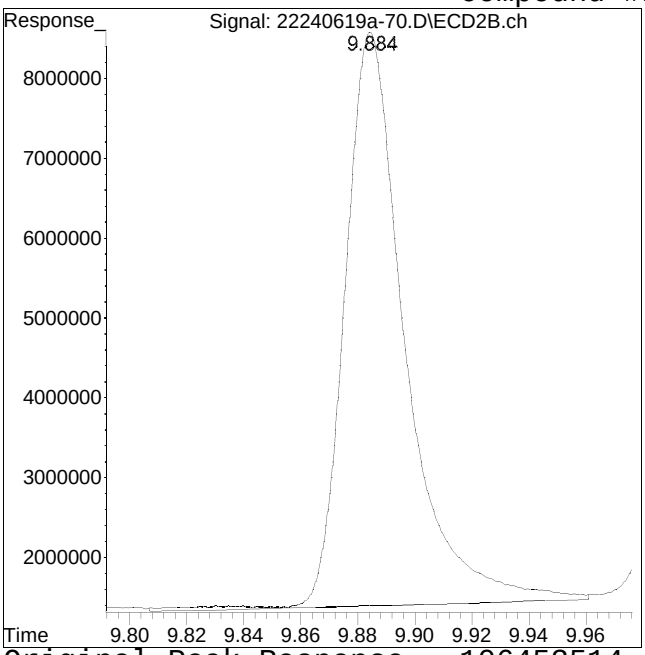
Manual Peak Response = 91291239 M4

M4 = Poor automated baseline construction.

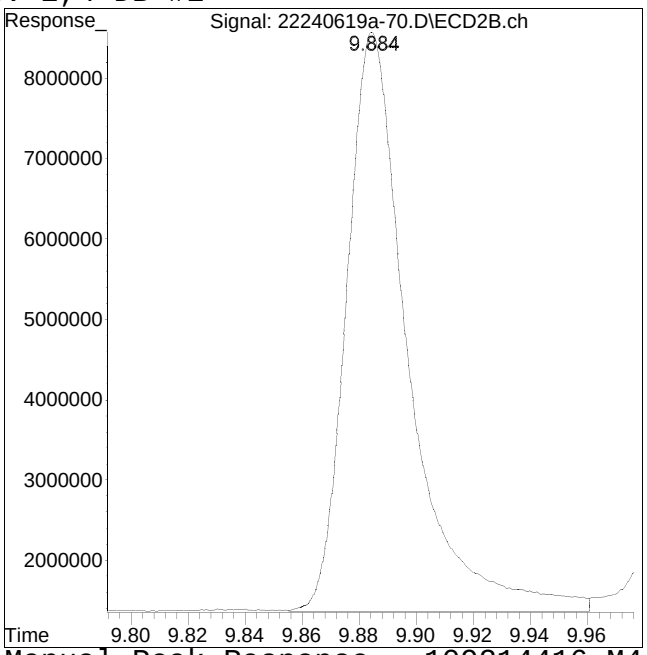
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #24: 2,4-DB #2



Original Peak Response = 106453514



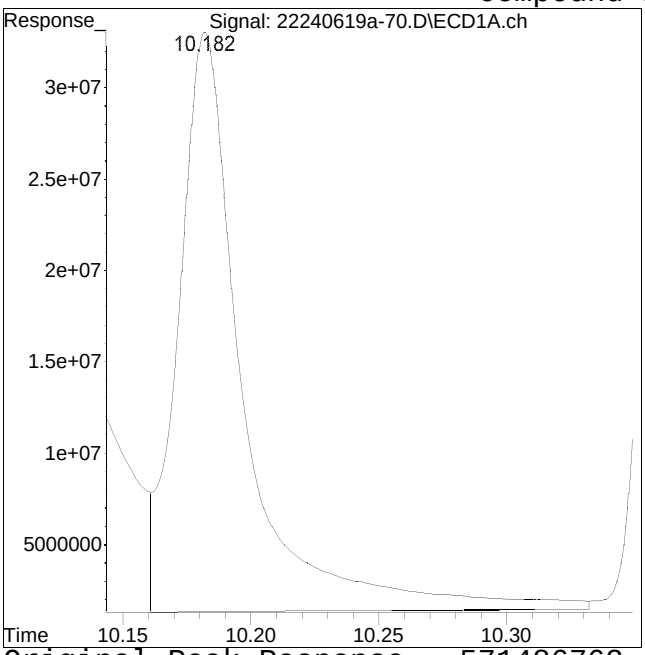
Manual Peak Response = 109214416 M4

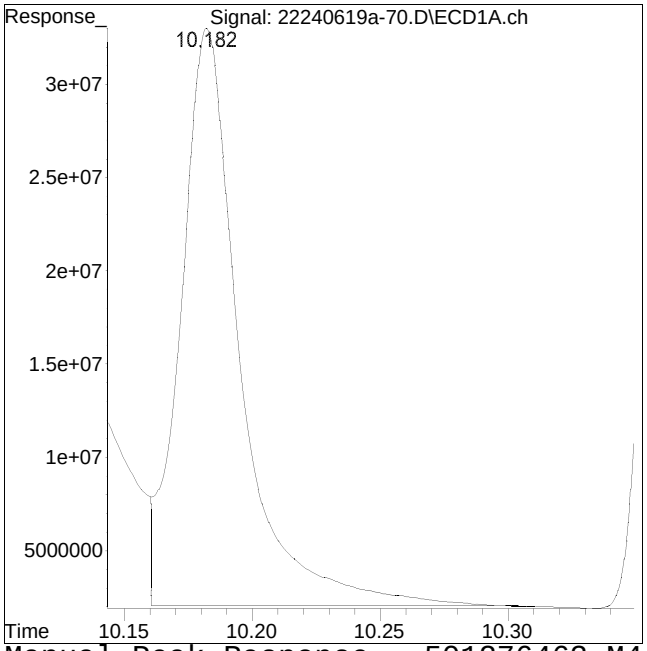
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #12: Dinoseb



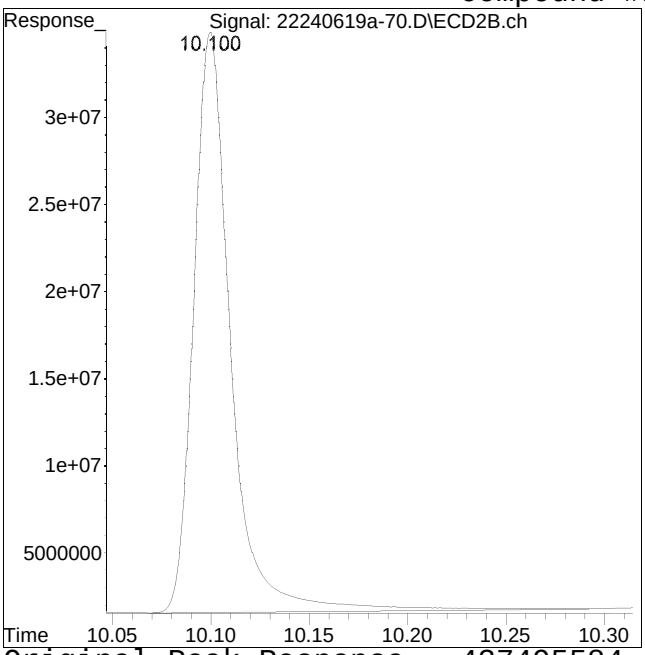


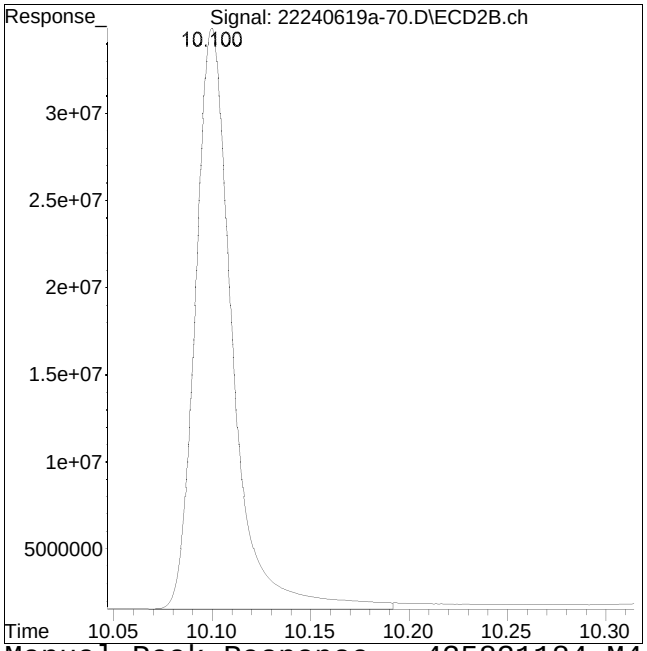
Original Peak Response = 571486762 Manual Peak Response = 501276463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-70.D Operator : pest22:peg
Date Inj'd : 6/20/2024 5:13 am Instrument : Pest22
Sample : wg1936304-6,42,,herb11561 Quant Date : 6/20/2024 7:56 am

Compound #25: Dinoseb #2





Original Peak Response = 437495584 Manual Peak Response = 435831184 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-87.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Jun 2024 03:37 pm
Operator : pest22:ejl
Sample   : wg1936304-7,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 87   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 16:21:03 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	84	0.00
2	t	Dalapon		0.211	0.275	-30.3#	105	0.00
3	s	DCAA (surrogate)		0.206	0.229	-11.2	88	0.00
4	t	Dicamba		0.589	0.711	-20.7#	94	0.00
5	t	MCPP		0.00052	0.00112	-115.4#	169#	0.00
6	t	MCPA		0.00097	0.00172	-77.3#	140	0.00
7	t	Dichloroprop		0.193	0.212	-9.8	85	0.00
8	t	2,4-D		0.240	0.250	-4.2	82	-0.05
9	t	2,4,5-TP (Silvex)		0.868	0.936	-7.8	84	-0.03
10	t	2,4,5-T		0.853	1.006	-17.9#	93	-0.03
11	t	2,4-DB		0.132	0.124	6.1	74	-0.04
12	t	Dinoseb		0.493	0.727	-47.5#	116	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	100	0.00
2	t	Dalapon		0.197	0.259	-31.5#	124	0.00
3	s	DCAA (surrogate)		0.203	0.222	-9.4	102	0.00
4	t	Dicamba		0.594	0.674	-13.5	106	0.00
5	t	MCPP		0.00074	0.00064	13.5	83	0.00
6	t	MCPA		0.00124	0.00127	-2.4	96	0.00
7	t	Dichloroprop		0.192	0.207	-7.8	100	0.00
8	t	2,4-D		0.237	0.286	-20.7#	114	-0.01
9	t	2,4,5-TP (Silvex)		0.856	0.926	-8.2	101	0.00
10	t	2,4,5-T		0.831	0.840	-1.1	95	-0.01
11	t	2,4-DB		0.141	0.128	9.2	87	-0.01
12	t	Dinoseb		0.491	0.603	-22.8#	116	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-87.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Jun 2024 03:37 pm
Operator : pest22:ejl
Sample   : wg1936304-7,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 87   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 16:21:03 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-87.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 03:37 pm
Operator : pest22:ejl
Sample : wg1936304-7,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 16:21:03 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.530	8.526	626.5E6	679.0E6	0.250M3	0.250M3
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.988	7.457	108.0E6	113.5E6	0.209M3	0.206M3
		Spiked Amount 0.500	Range 30 - 150		Recovery =		41.80%	41.20%
		Target Compounds						
2)	t	Dalapon	2.386	2.384	125.4E6	127.9E6	0.237M4	0.238M3
4)	t	Dicamba	7.170	7.637	334.9E6	343.9E6	0.227M4	0.213M4
5)	t	MCPP	7.371	7.749	52617370	32537644	40.297M4	16.278M4
D								
6)	t	MCPA	7.518	7.976	79954920	64033456	33.006M4	19.018M4
D								
7)	t	Dichloroprop	7.873	8.293	99752880	105.8E6	0.206M3	0.203M4
8)	t	2,4-D	8.098f	8.574	117.8E6	146.1E6	0.196M3	0.227M4
9)	t	2,4,5-TP (Si	8.806f	9.227	445.7E6	477.6E6	0.205M4	0.205M4
10)	t	2,4,5-T	9.040f	9.522	479.0E6	433.4E6	0.224M3	0.192M4
11)	t	2,4-DB	9.452f	9.884	59868995	66929720	0.181M3	0.175M4
12)	t	Dinoseb	10.180	10.099	346.0E6	311.0E6	0.280M3	0.233M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-87.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 03:37 pm
Operator : pest22:ejl
Sample : wg1936304-7,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 16:21:03 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

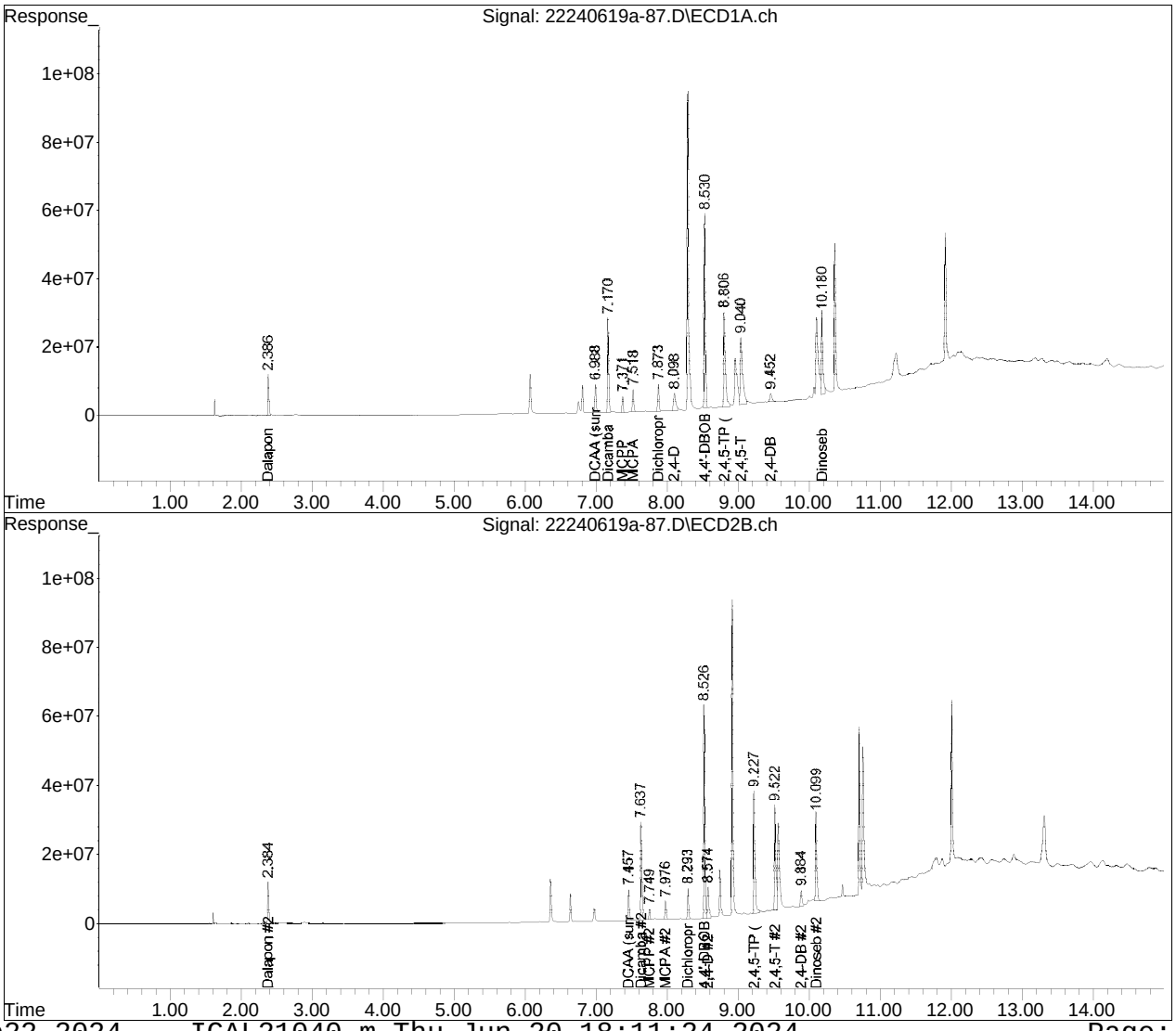
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-87.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 03:37 pm
Operator : pest22:ejl
Sample : wg1936304-7,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 16:21:03 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

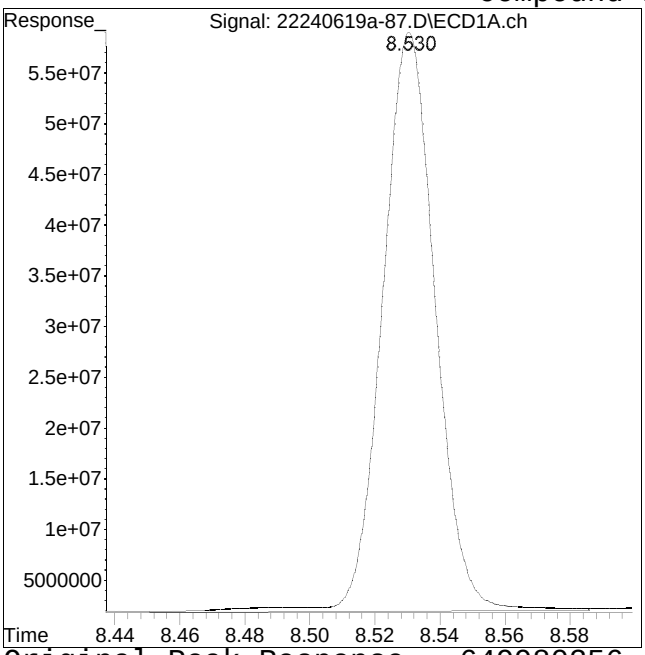
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

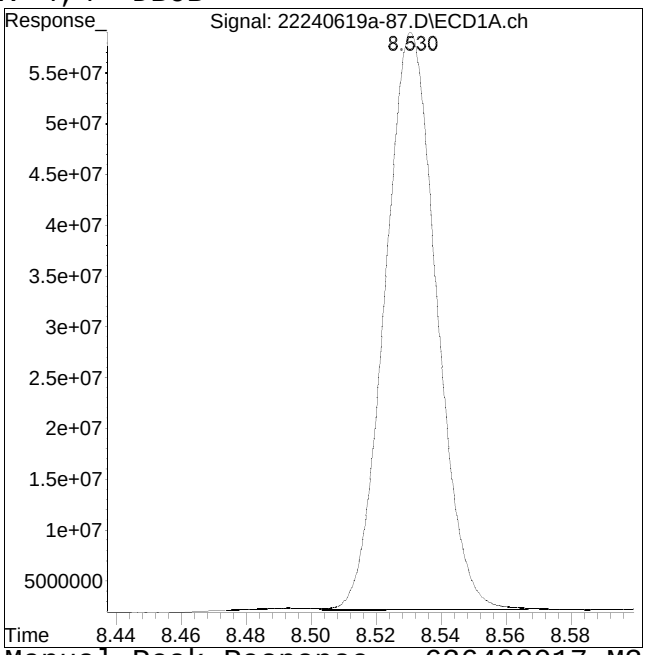


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #1: 4,4'-DBOB



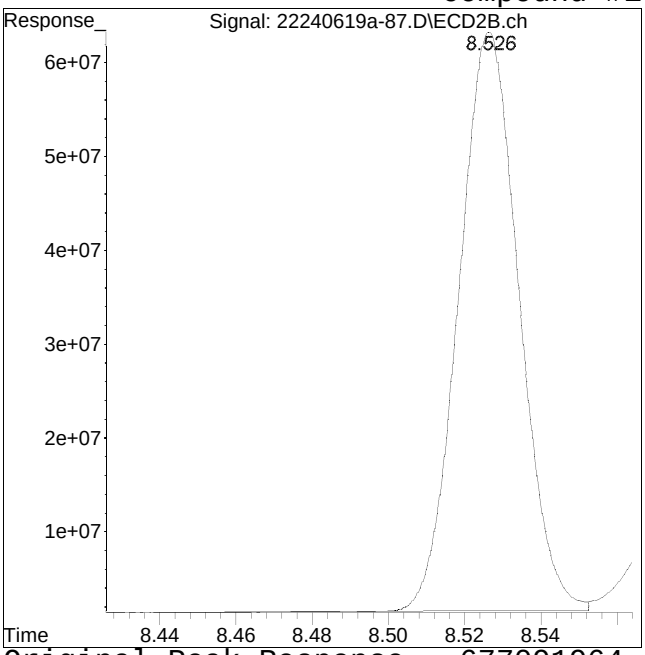


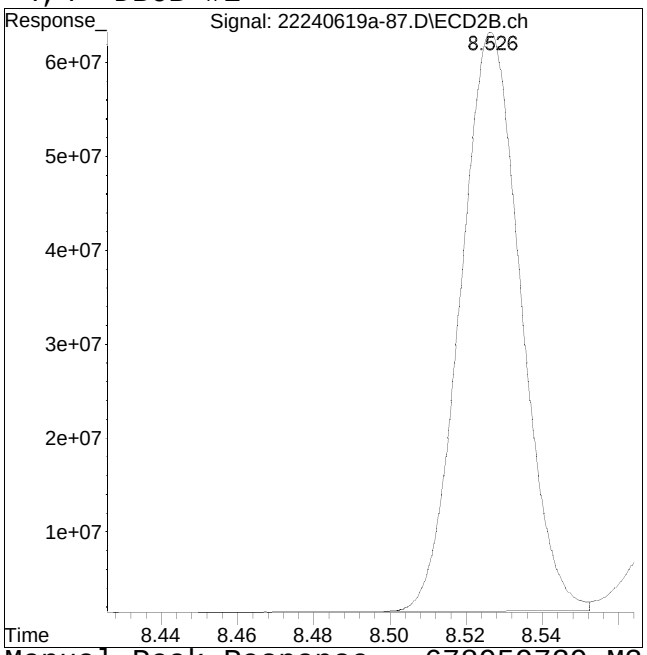
Original Peak Response = 649980356 Manual Peak Response = 626492017 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #14: 4,4'-DBOB #2



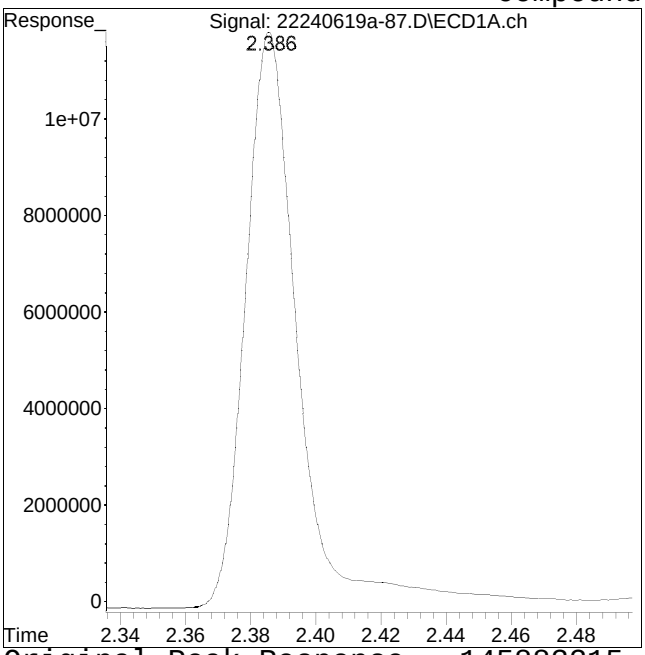


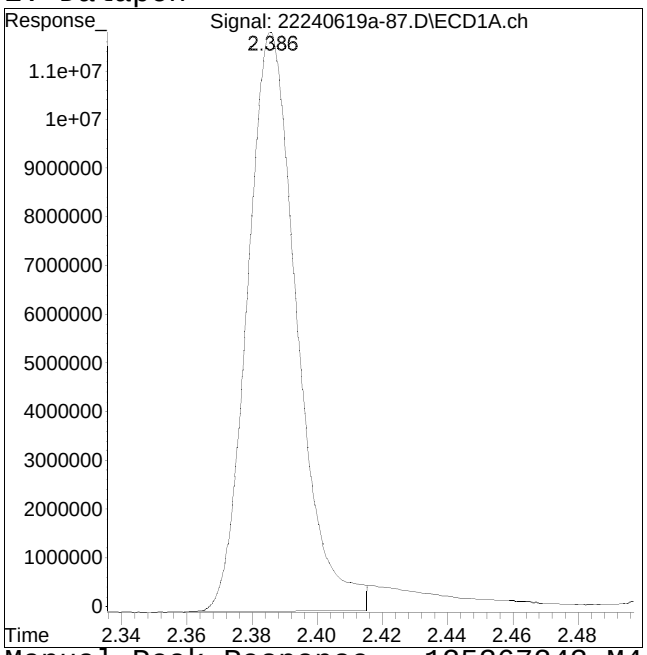
Original Peak Response = 677091964 Manual Peak Response = 678959739 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #2: Dalapon



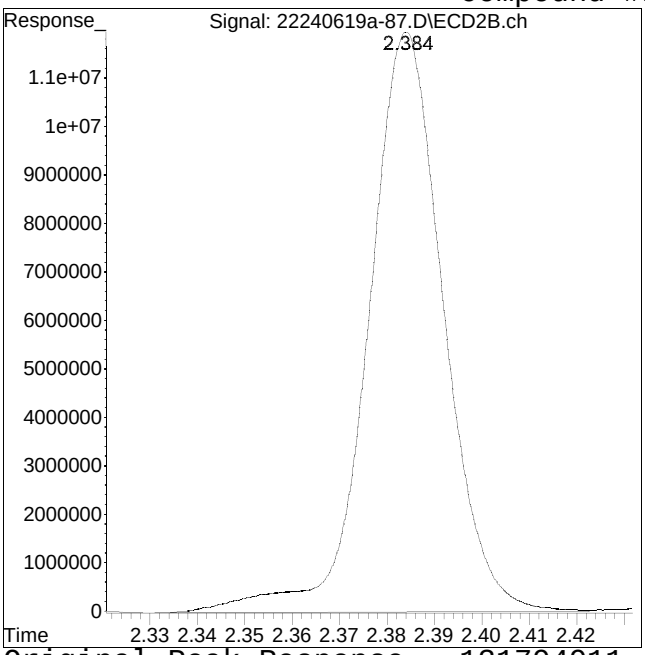


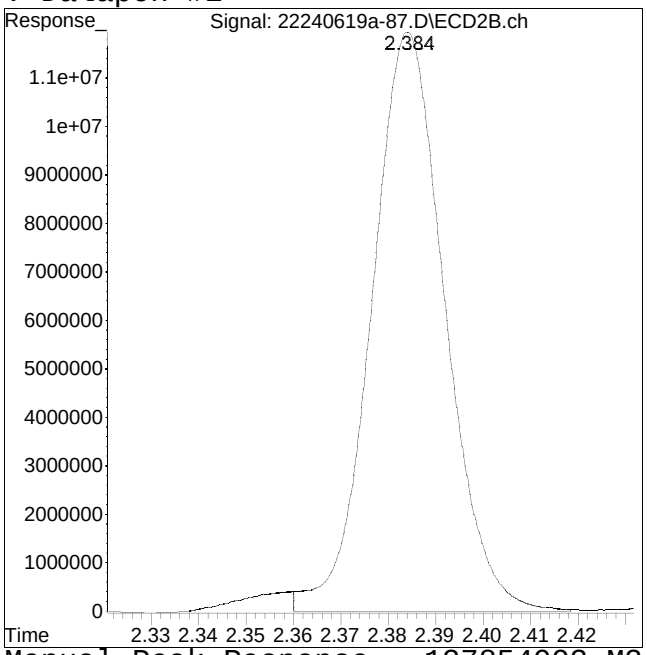
Original Peak Response = 145883315 Manual Peak Response = 125367243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #15: Dalapon #2



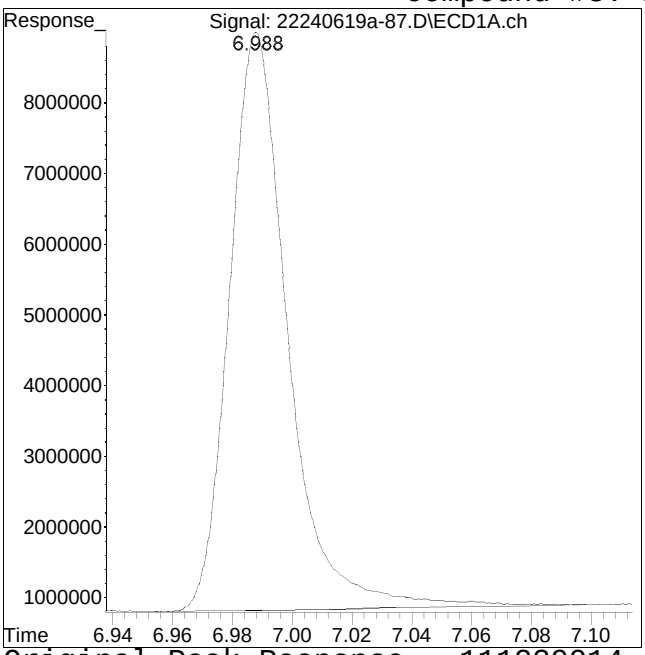


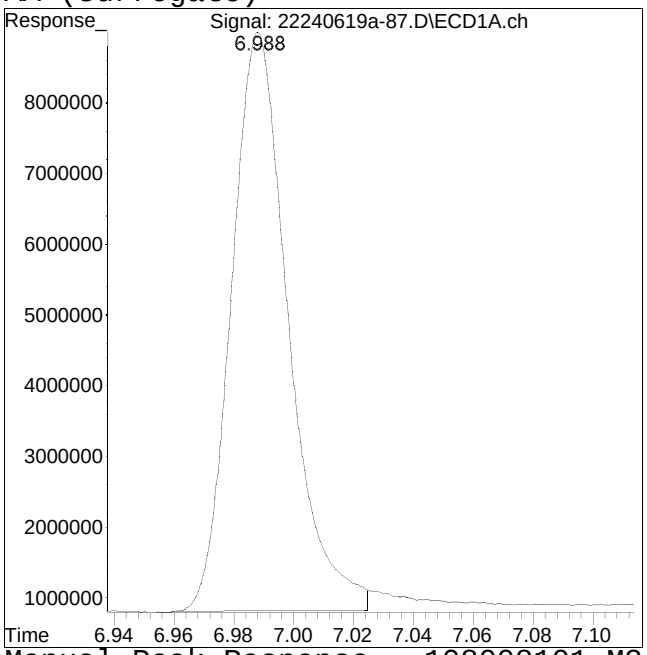
Original Peak Response = 131794911 Manual Peak Response = 127854993 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #3: DCAA (surrogate)



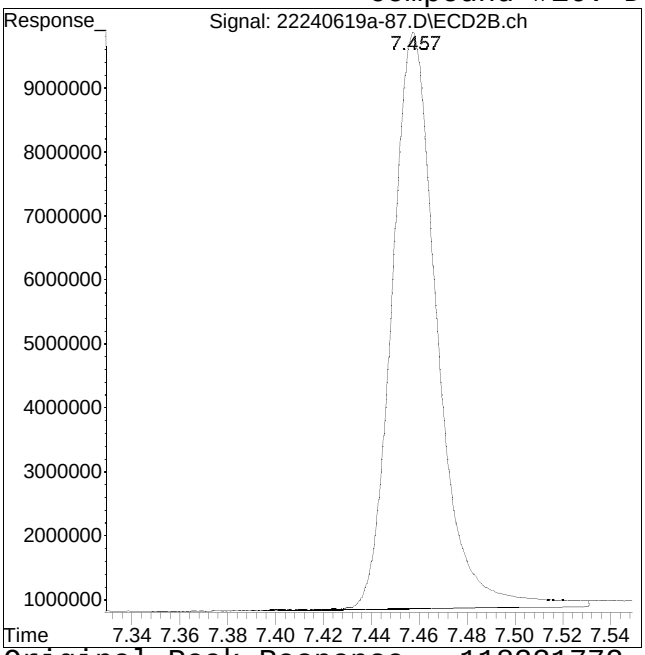


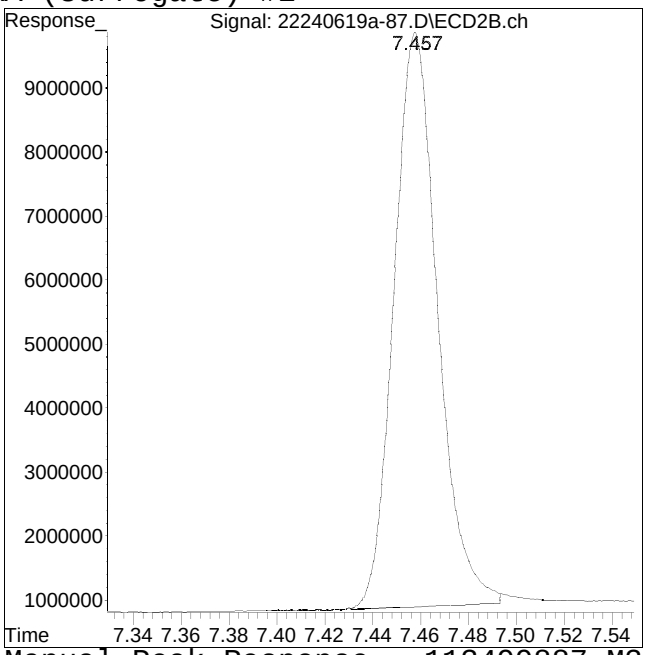
Original Peak Response = 111239914 Manual Peak Response = 108008101 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #16: DCAA (surrogate) #2



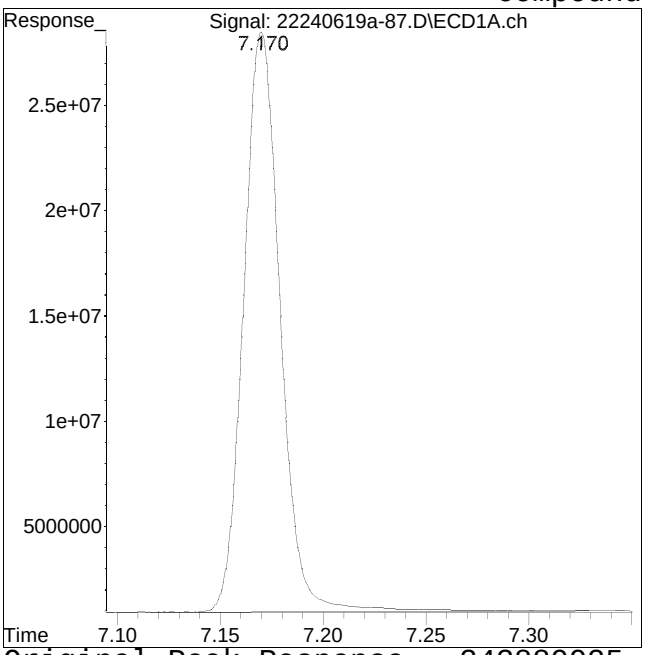


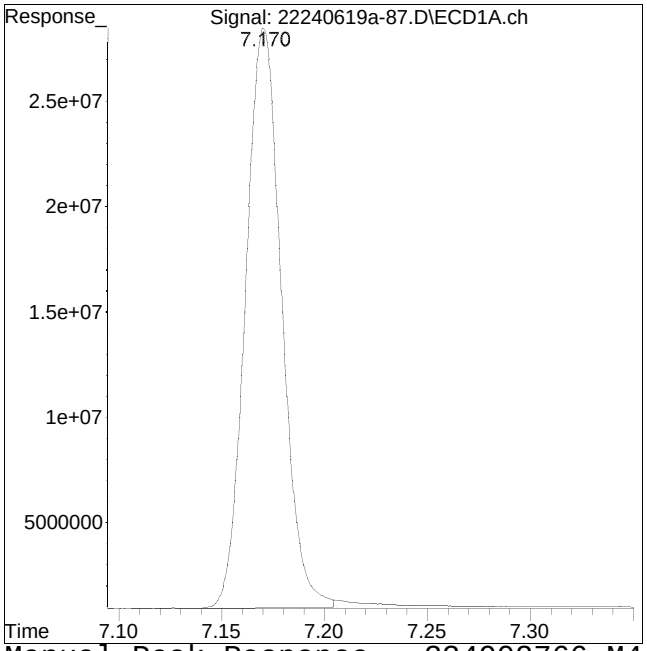
Original Peak Response = 118331772 Manual Peak Response = 113499887 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #4: Dicamba



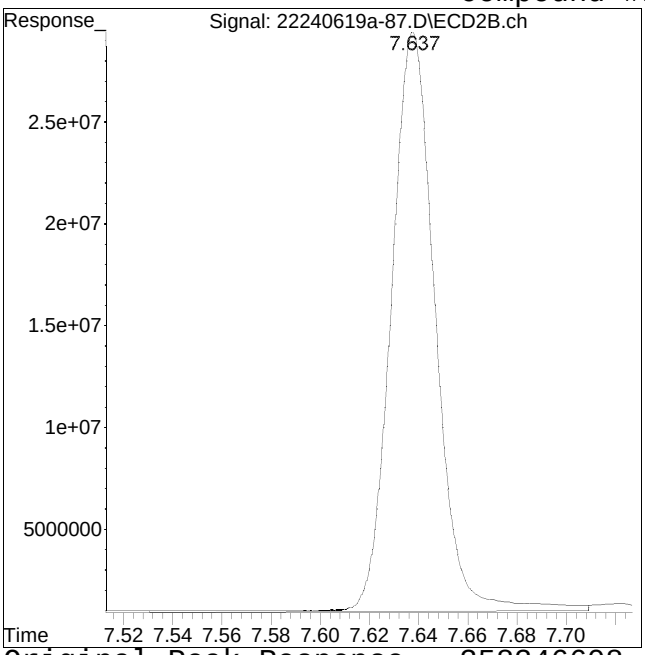


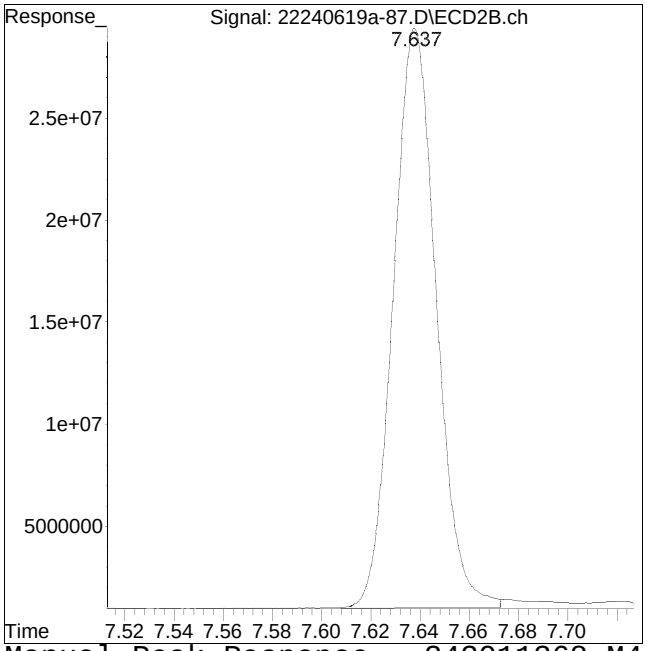
Original Peak Response = 343889925 Manual Peak Response = 334902766 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #17: Dicamba #2



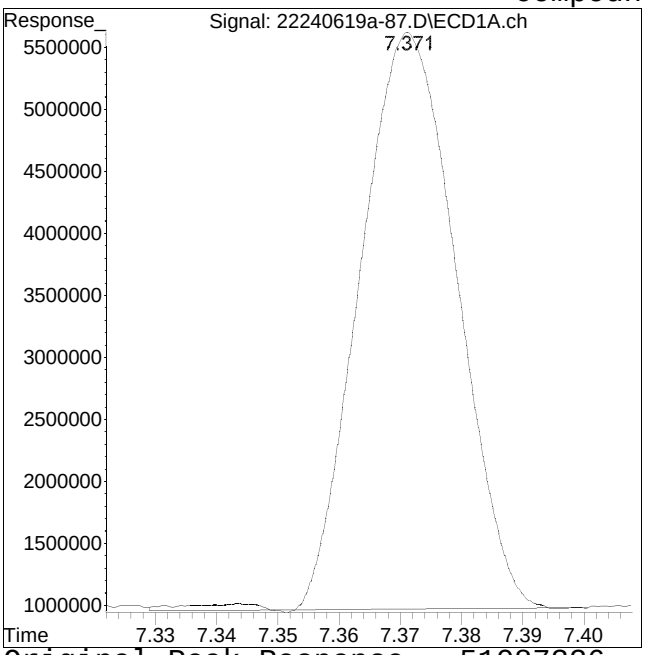


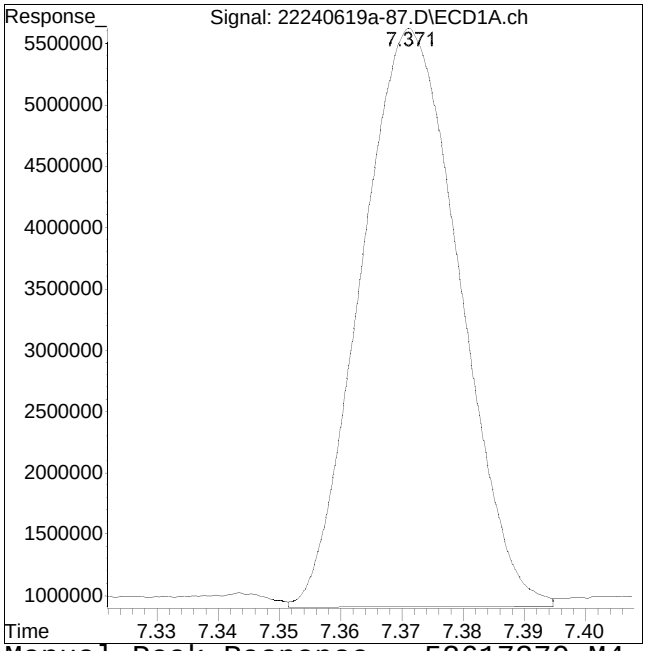
Original Peak Response = 358346608 Manual Peak Response = 343911368 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #5: MCPP



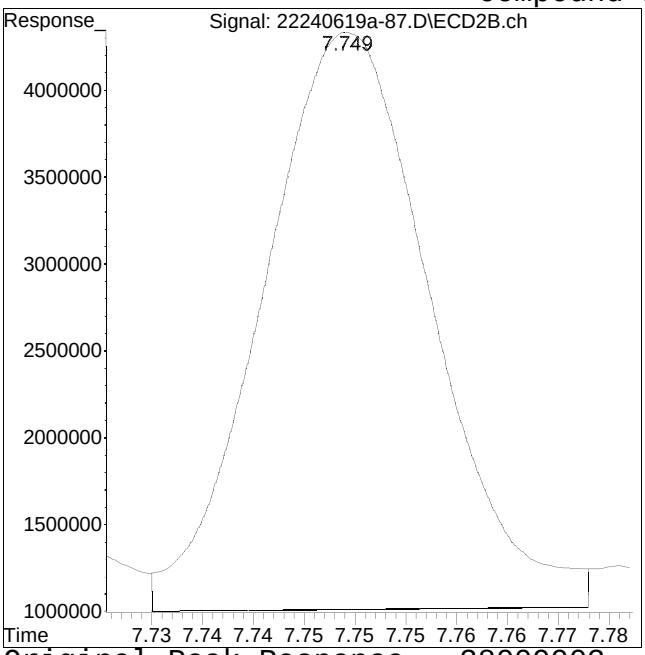


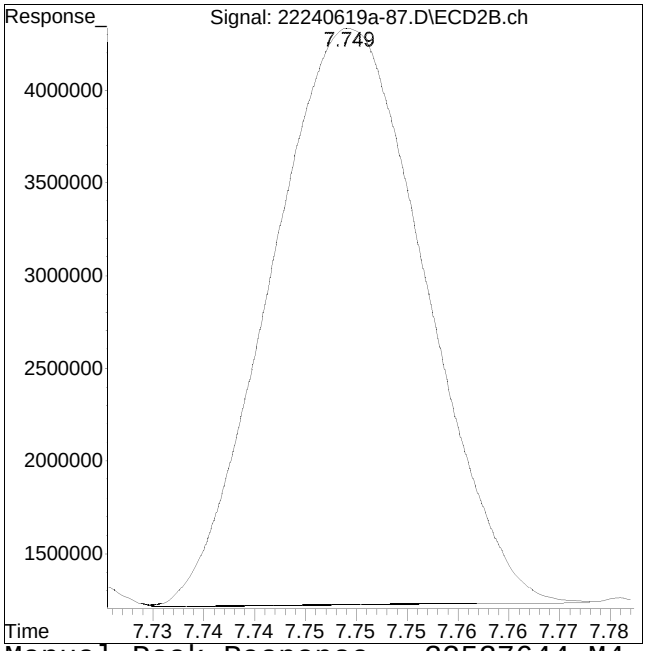
Original Peak Response = 51087336 Manual Peak Response = 52617370 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #18: MCPP #2



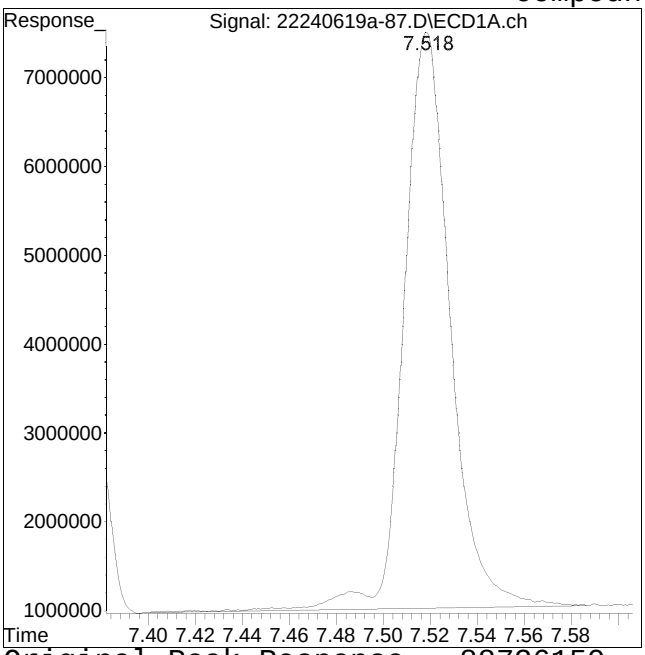


Original Peak Response = 38009903 Manual Peak Response = 32537644 M4
M4 = Poor automated baseline construction.

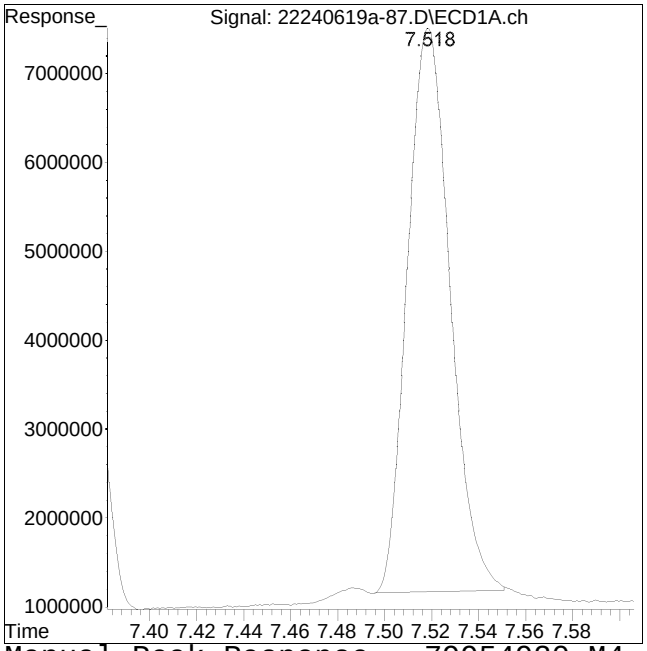
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #6: MCPA



Original Peak Response = 88736150



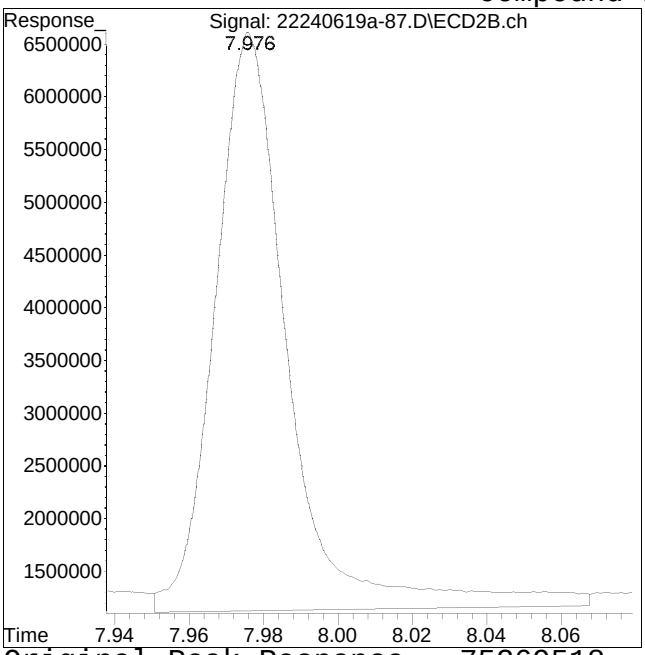
Manual Peak Response = 79954920 M4

M4 = Poor automated baseline construction.

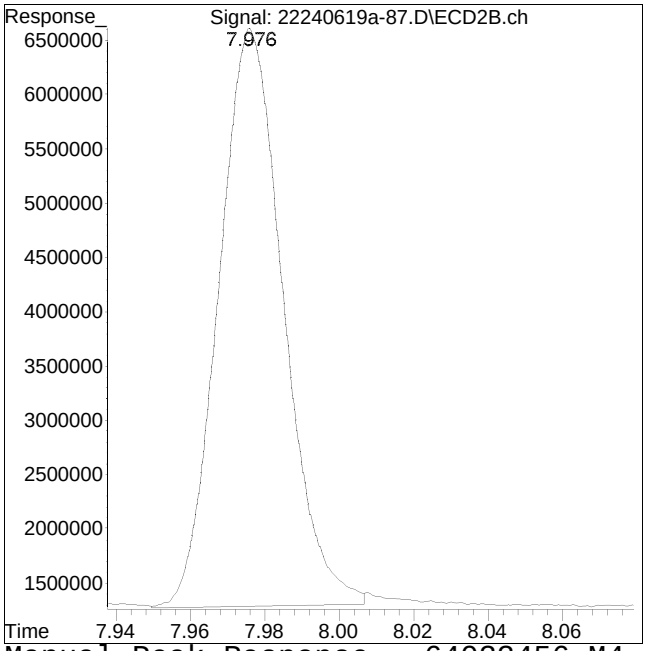
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #19: MCPA #2



Original Peak Response = 75269518



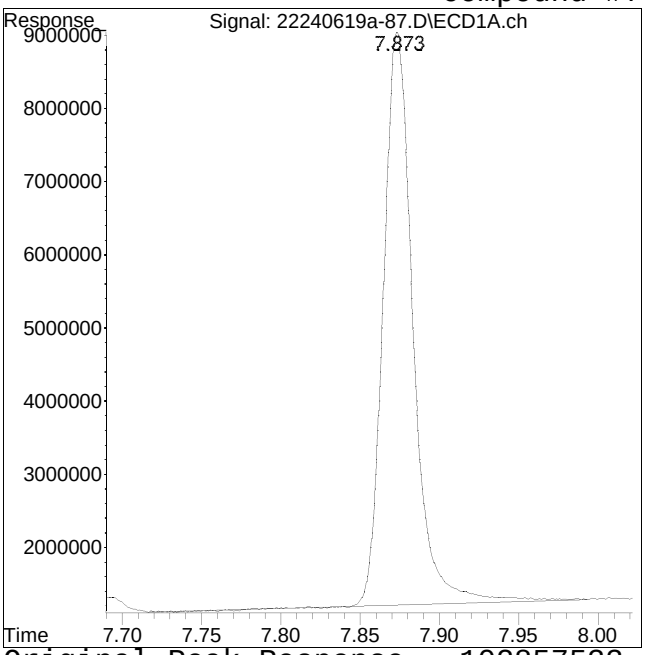
Manual Peak Response = 64033456 M4

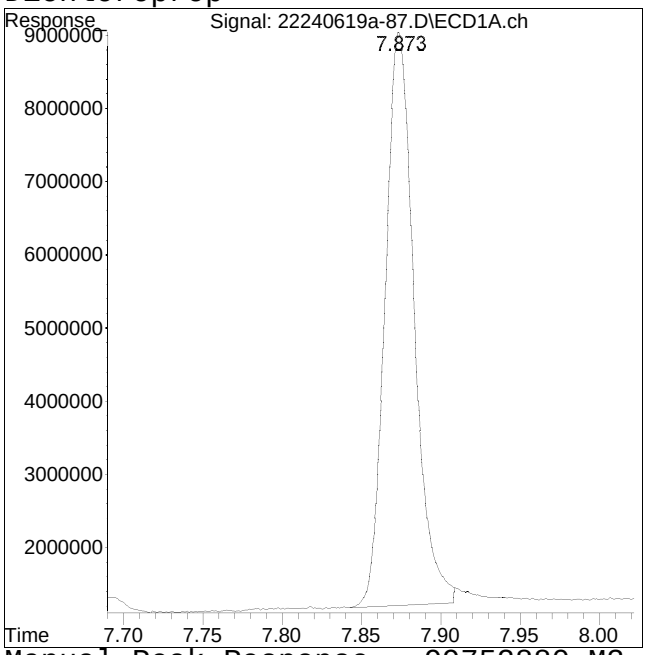
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #7: Dichloroprop



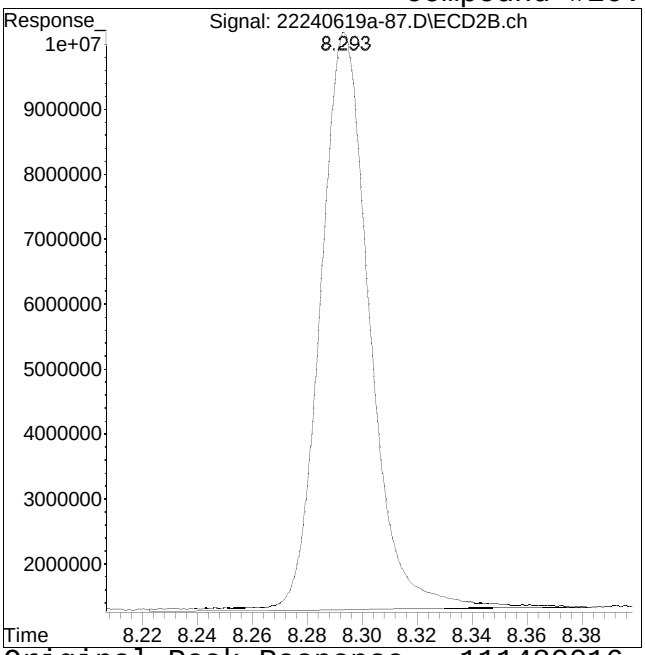


Original Peak Response = 102857533 Manual Peak Response = 99752880 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

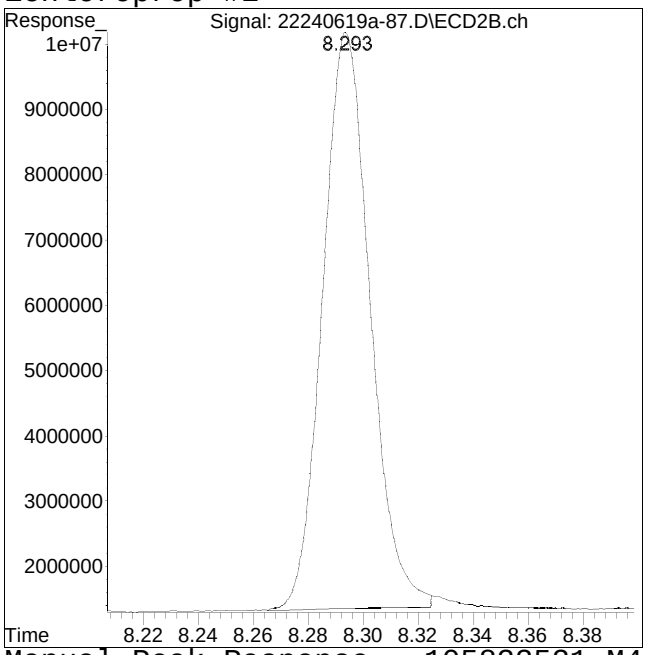
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #20: Dichloroprop #2



Original Peak Response = 111480016



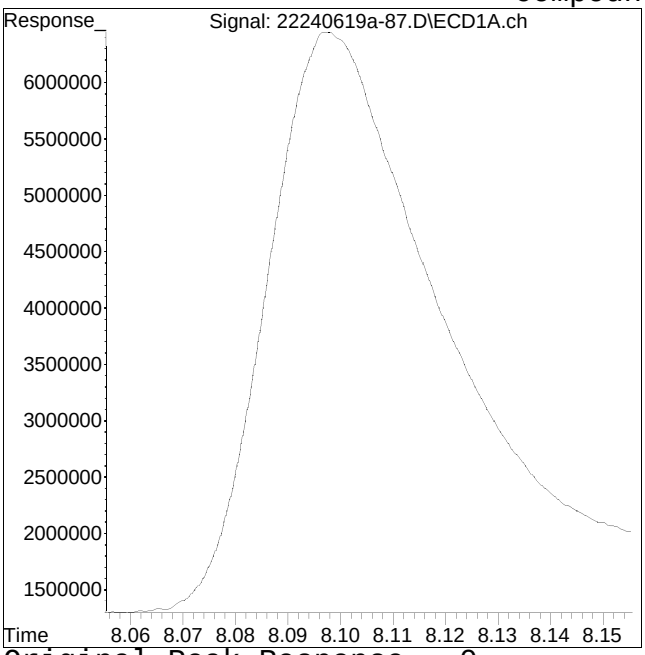
Manual Peak Response = 105833521 M4

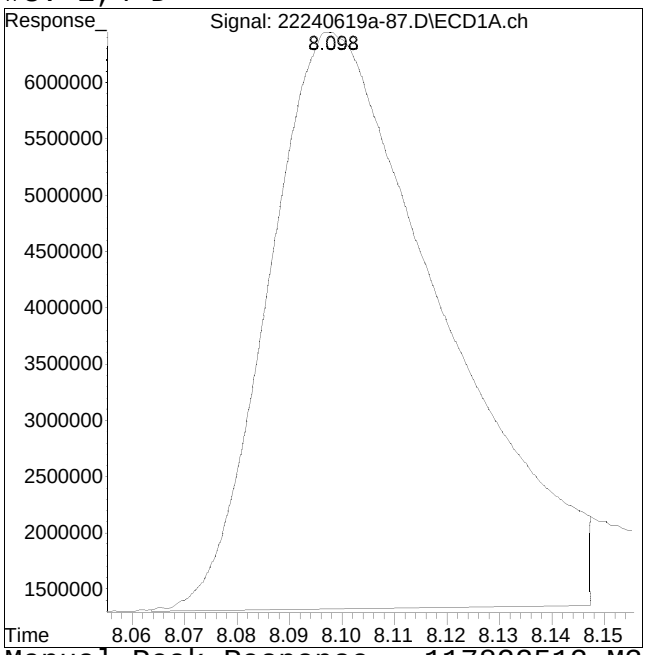
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #8: 2,4-D



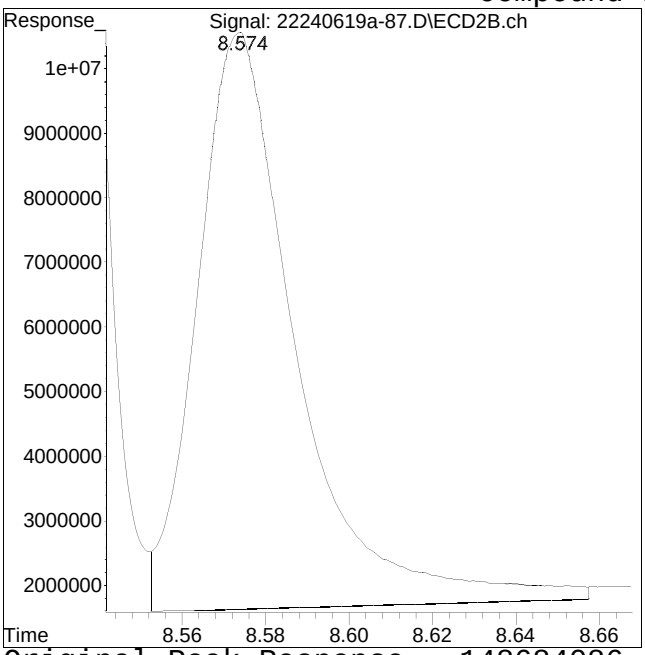


Original Peak Response = 0 Manual Peak Response = 117822512 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

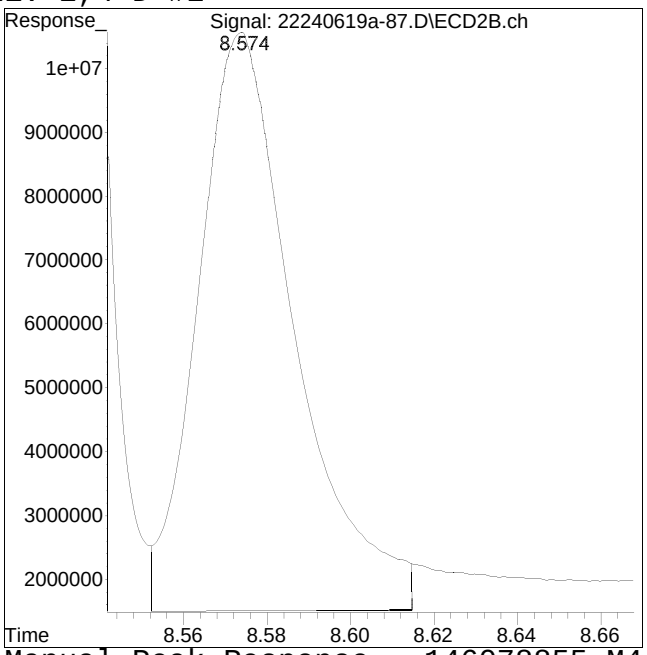
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #21: 2,4-D #2



Original Peak Response = 148684086



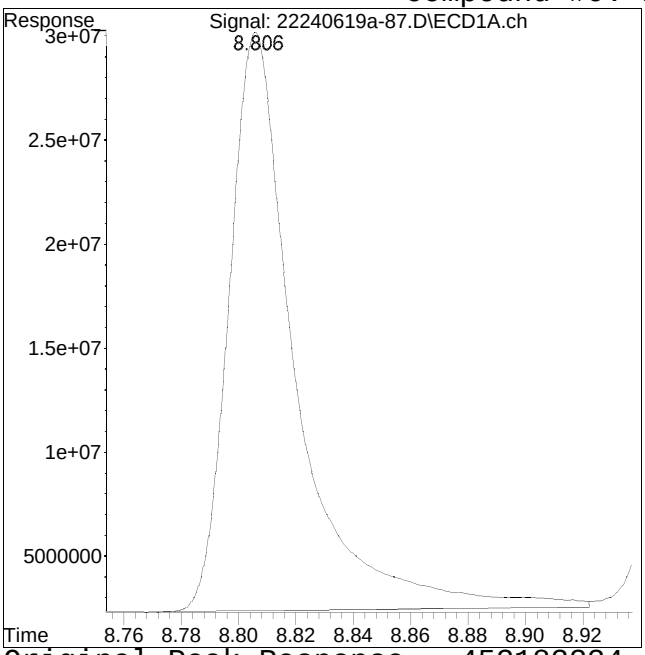
Manual Peak Response = 146078855 M4

M4 = Poor automated baseline construction.

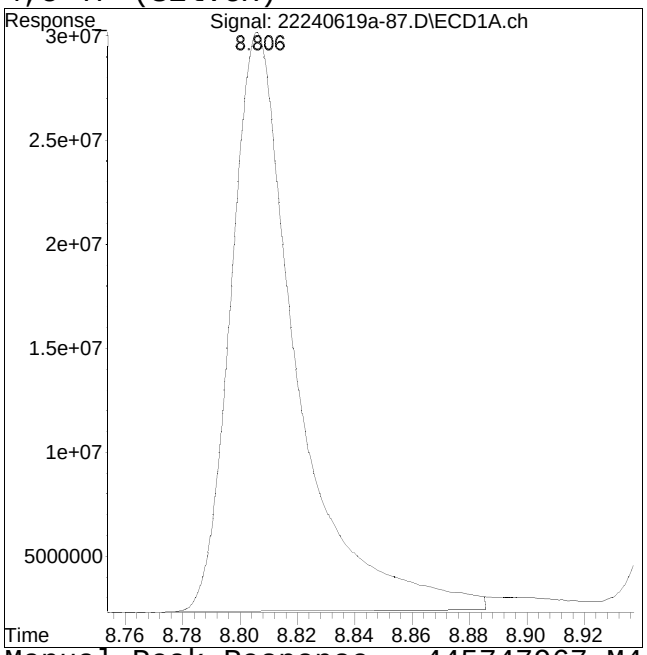
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 453183334



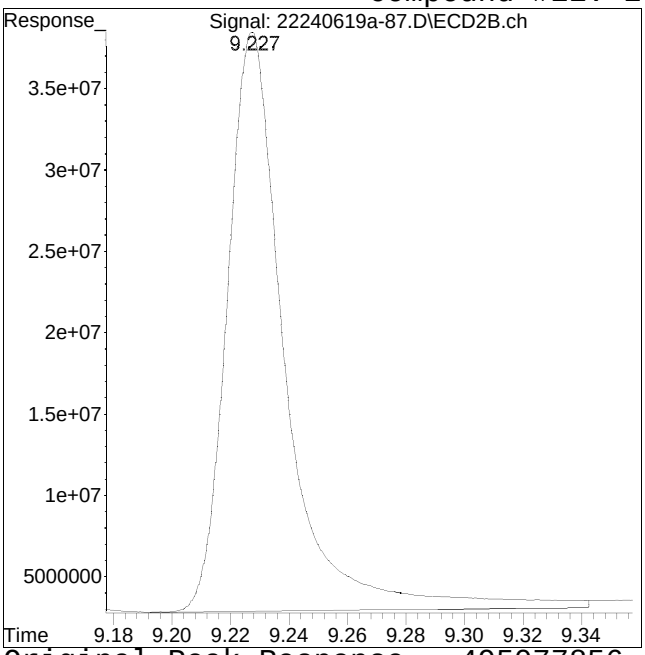
Manual Peak Response = 445747967 M4

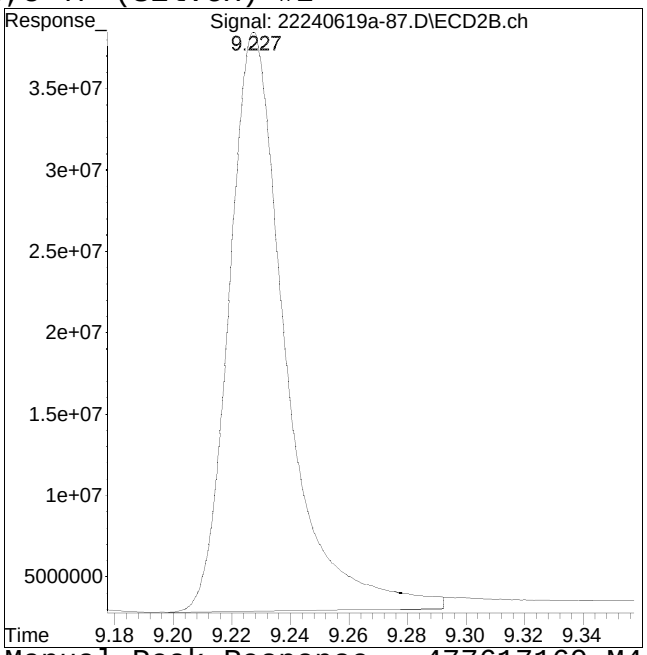
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #22: 2,4,5-TP (Silvex) #2



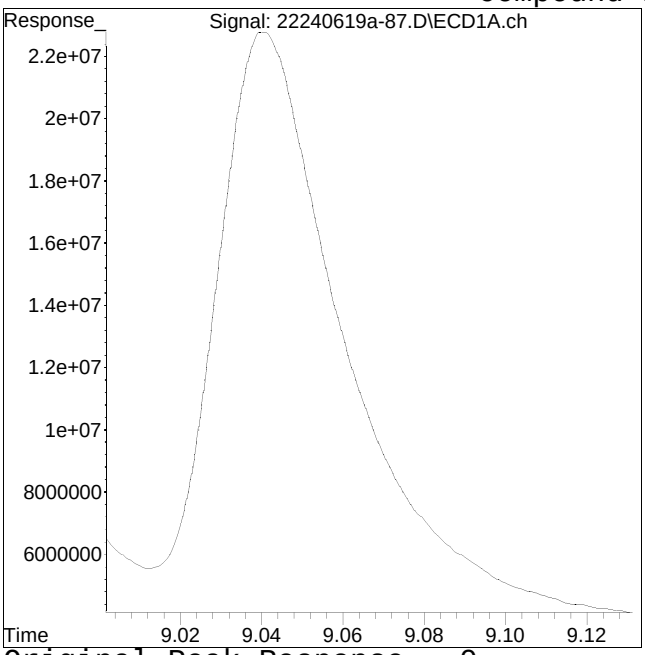


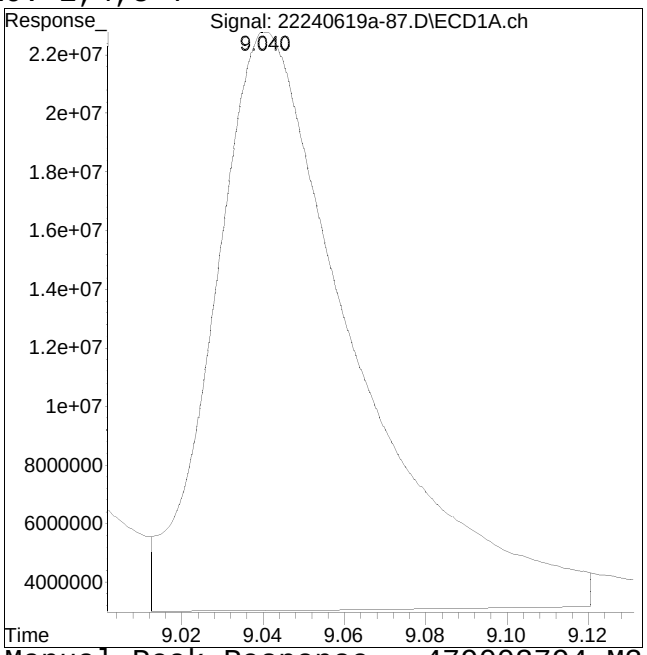
Original Peak Response = 495077856 Manual Peak Response = 477617160 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #10: 2,4,5-T



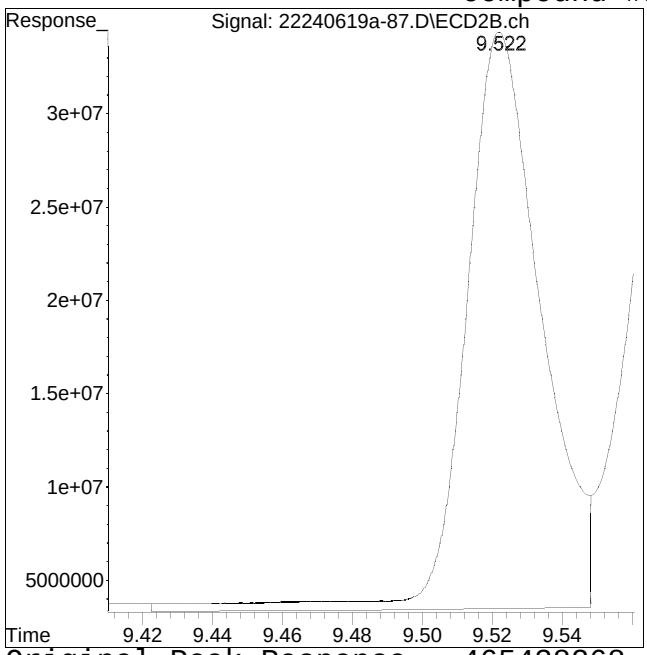


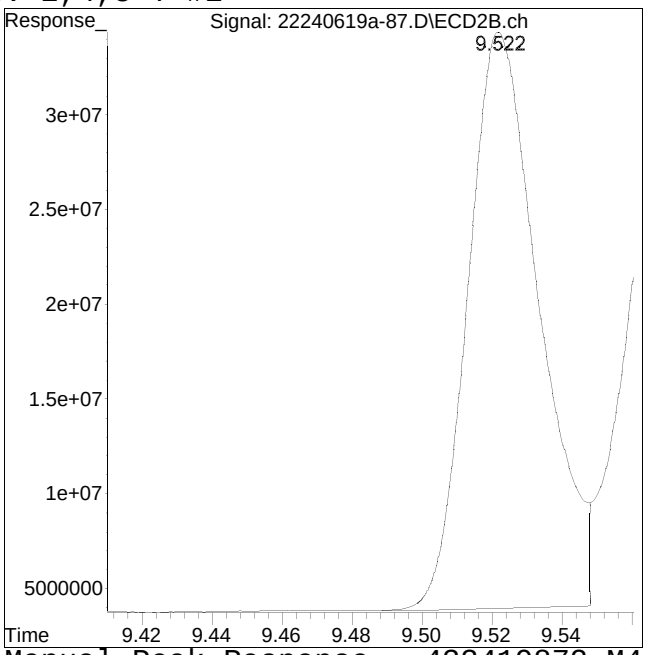
Original Peak Response = 0 Manual Peak Response = 479003794 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #23: 2,4,5-T #2



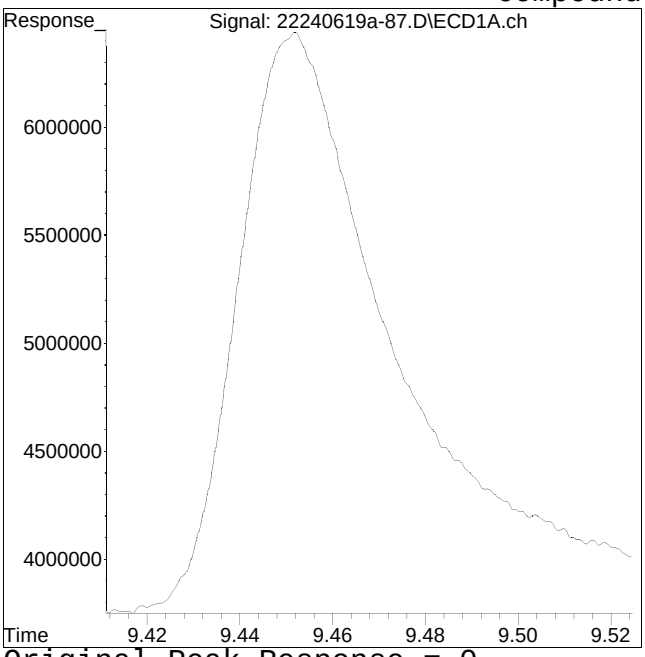


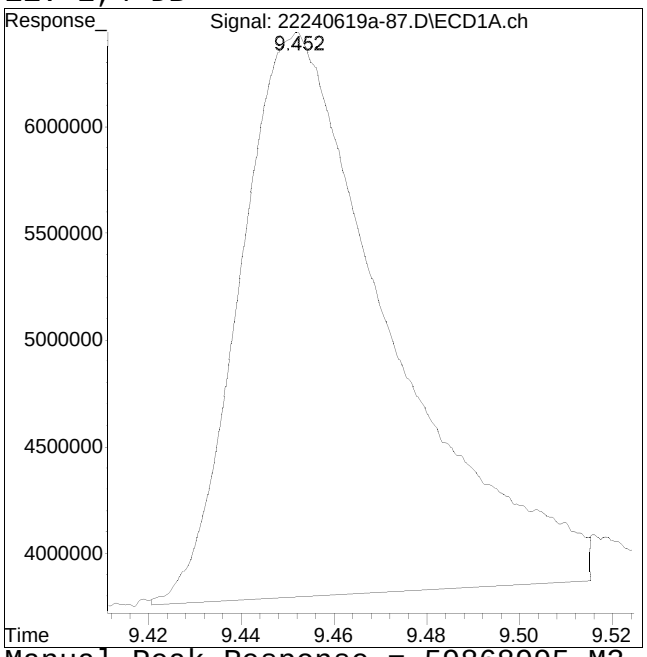
Original Peak Response = 465438268 Manual Peak Response = 433419872 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #11: 2,4-DB



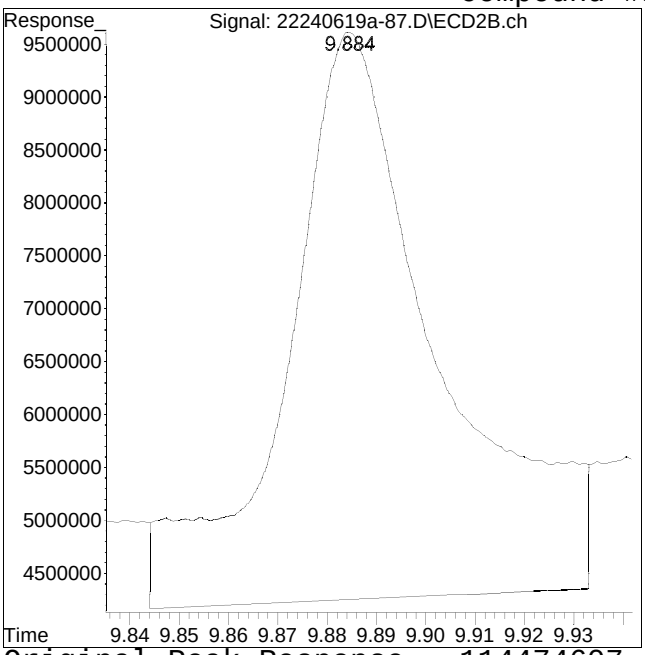


Original Peak Response = 0 Manual Peak Response = 59868995 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

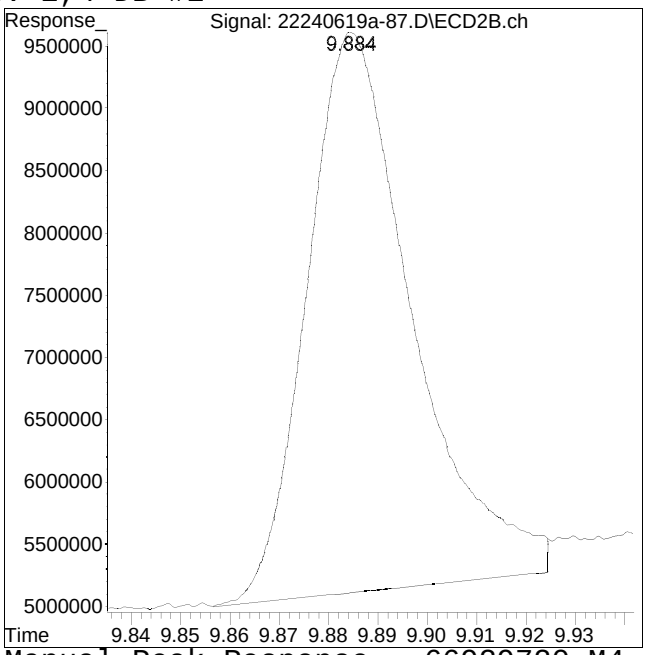
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #24: 2,4-DB #2



Original Peak Response = 114474607



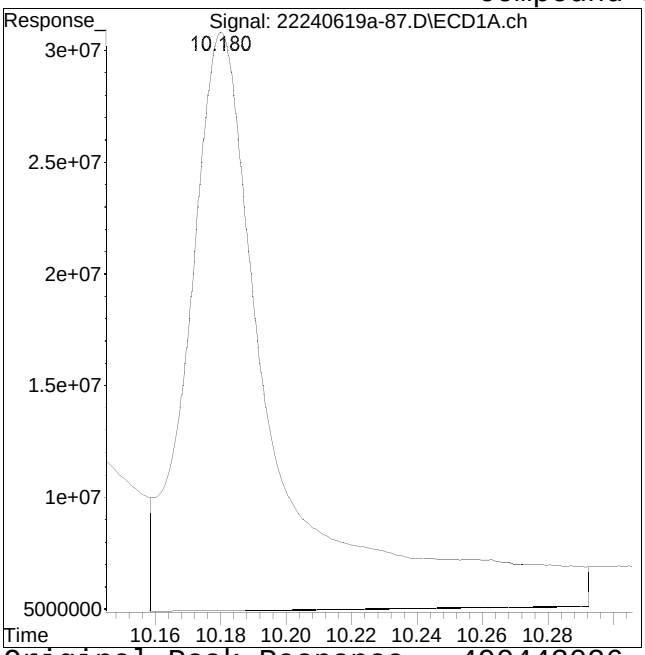
Manual Peak Response = 66929720 M4

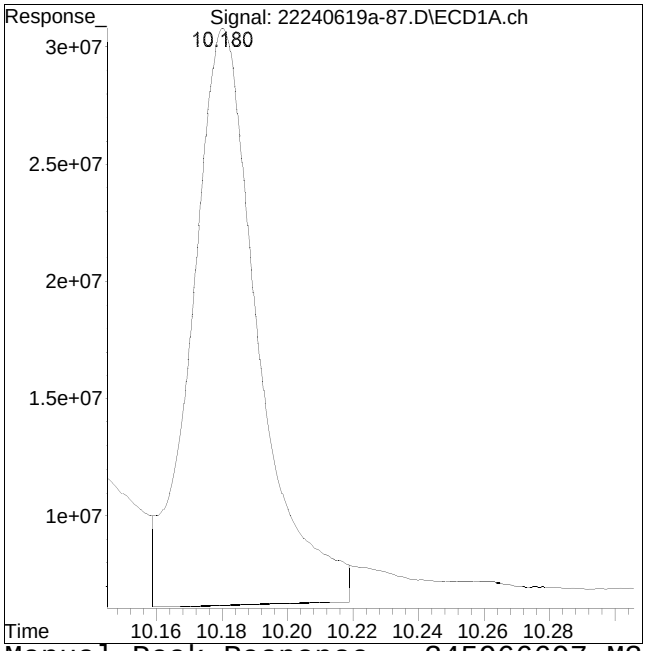
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #12: Dinoseb



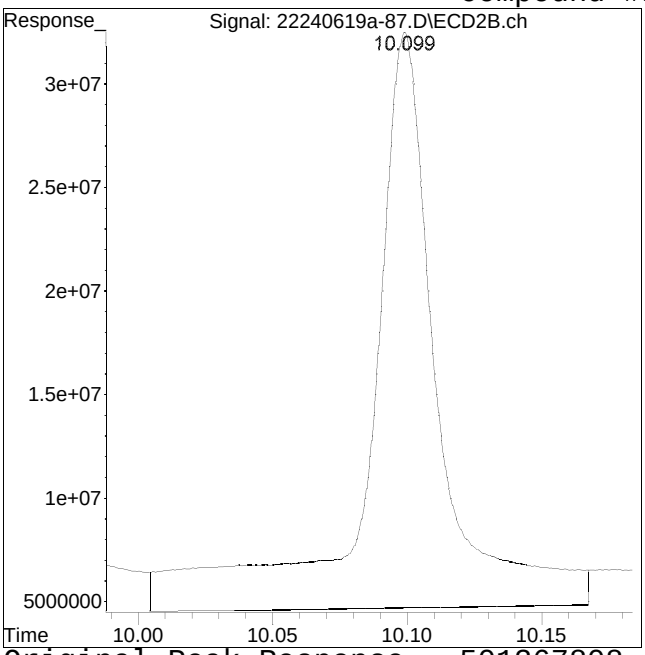


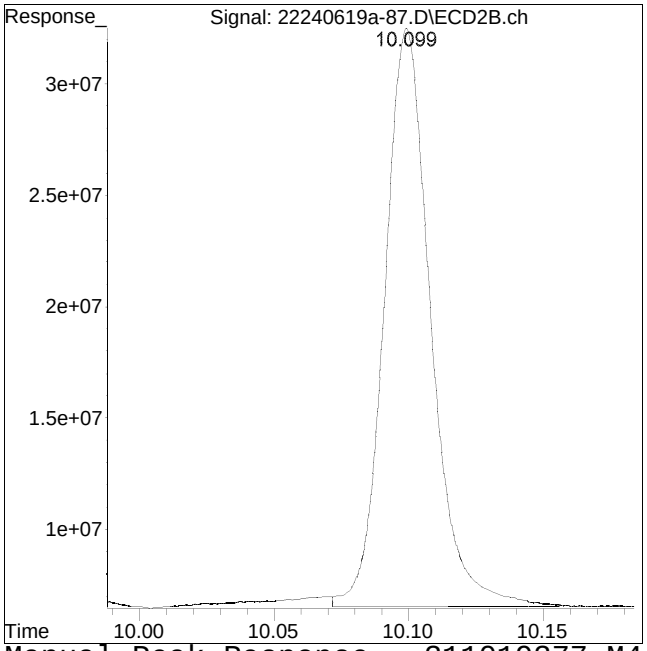
Original Peak Response = 490443026 Manual Peak Response = 345966697 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-87.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 3:37 pm Instrument : Pest22
Sample : wg1936304-7,42,, herb11561Quant Date : 6/20/2024 4:21 pm

Compound #25: Dinoseb #2





Original Peak Response = 501367808 Manual Peak Response = 311019377 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:02 pm
Operator : pest22:EJL
Sample : WG1935934-1,42,, 934 (Sig #1); WG1935965-1,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:41 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.532	8.527	811.5E6	836.7E6	0.250	0.250M3
Standard Area 1 : #1 = 883326324				Recovery =	91.87%	
Standard Area 1 : #2 = 891276115				Recovery =	93.88%	
System Monitoring Compounds						
3) s DCAA (surrog	6.991	7.457	327.2E6	302.7E6	0.490M4	0.446M3
Spiked Amount	0.500	Range 30 - 150		Recovery =	98.00%	89.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D.
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

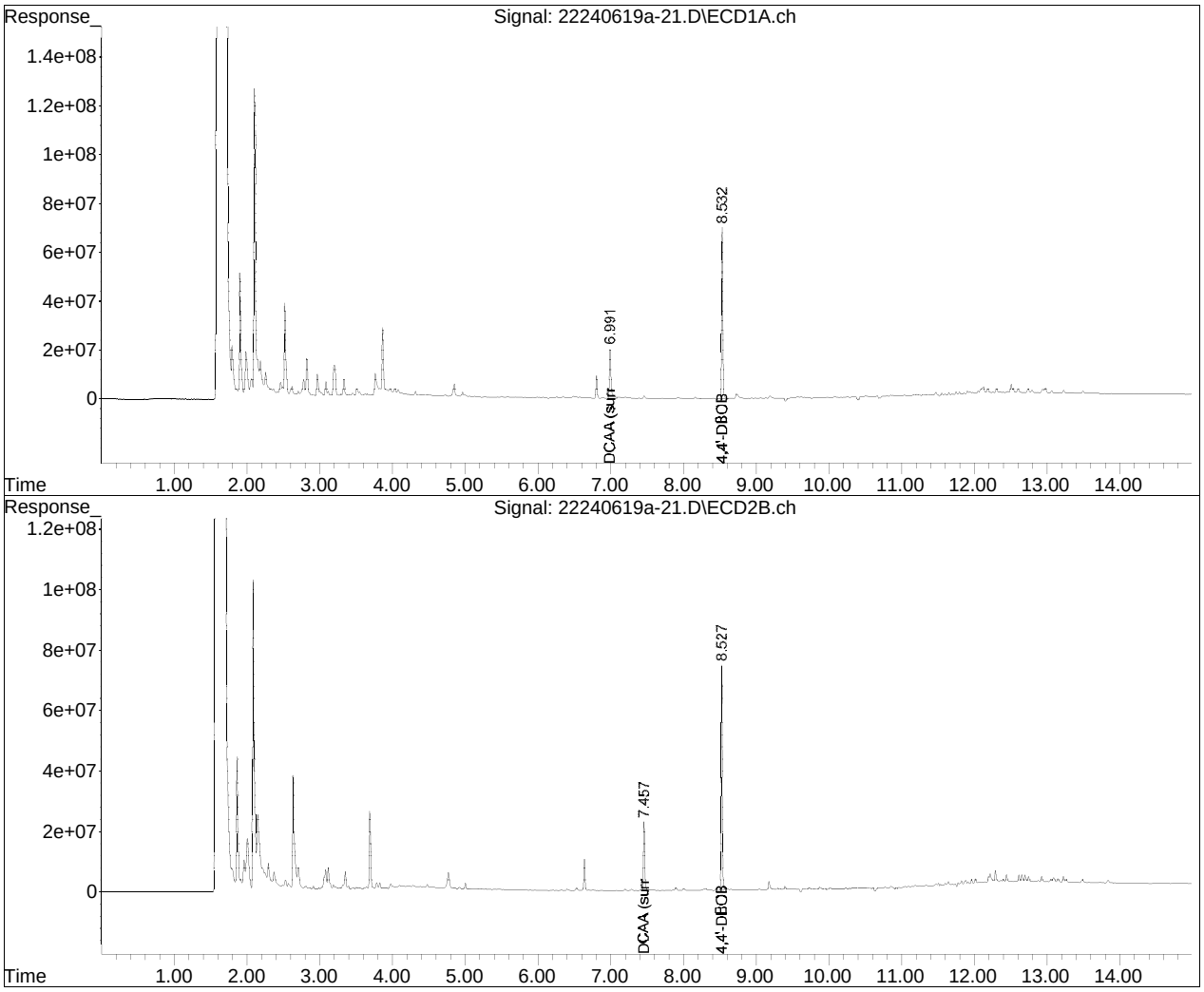
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:02 pm
Operator : pest22:EJL
Sample : WG1935934-1,42,, 934 (Sig #1); WG1935965-1,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:41 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

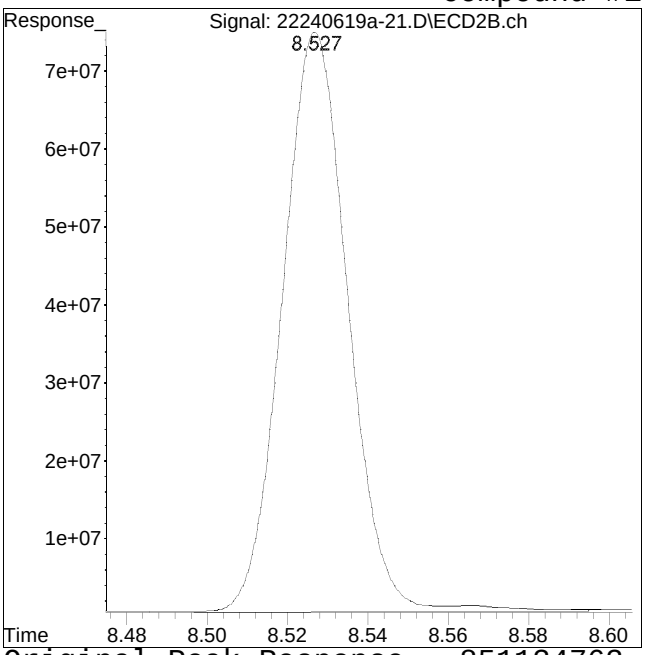
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

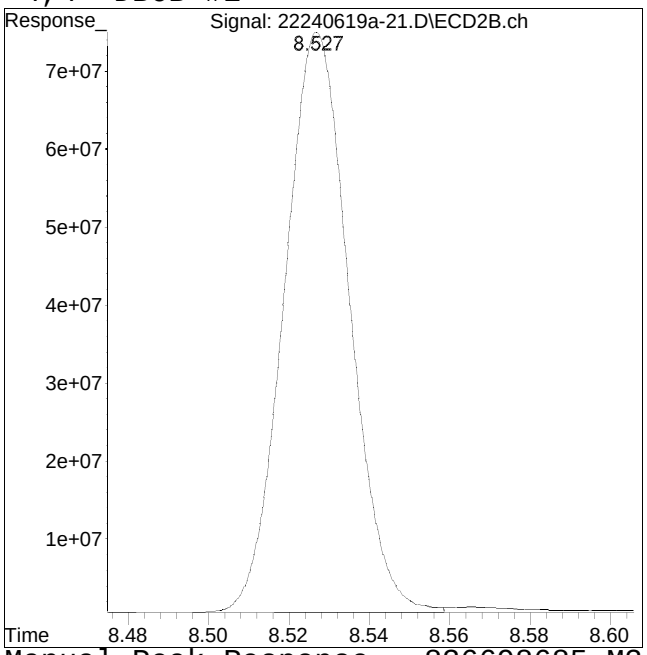


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-21.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:02 pm Instrument : Pest22
Sample : WG1935934-1,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #14: 4,4'-DBOB #2



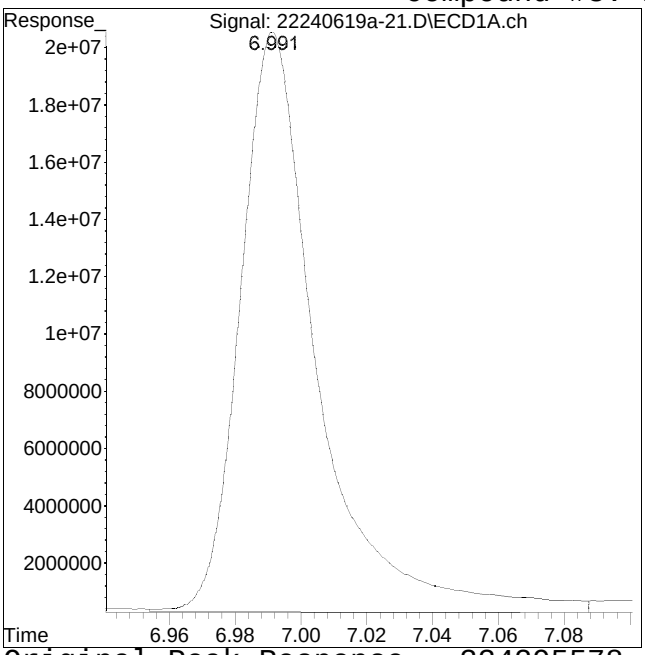


Original Peak Response = 851134763 Manual Peak Response = 836698685 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

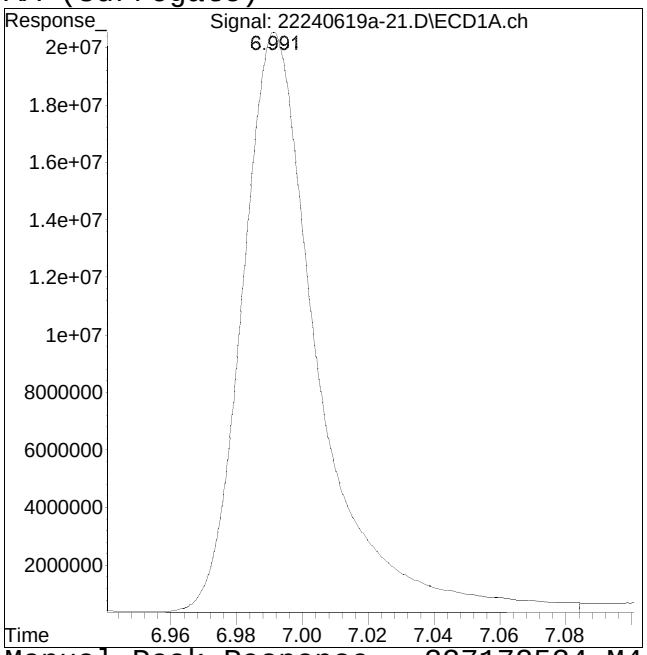
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-21.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:02 pm Instrument : Pest22
Sample : WG1935934-1,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 334295578



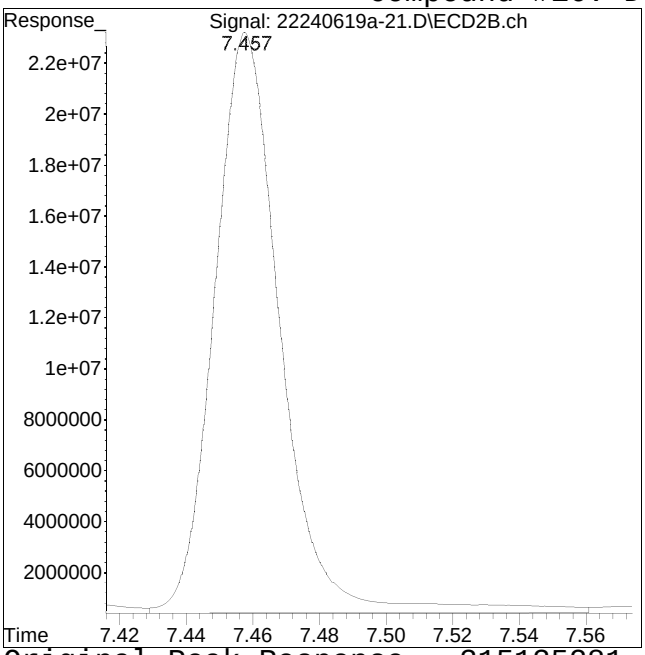
Manual Peak Response = 327172524 M4

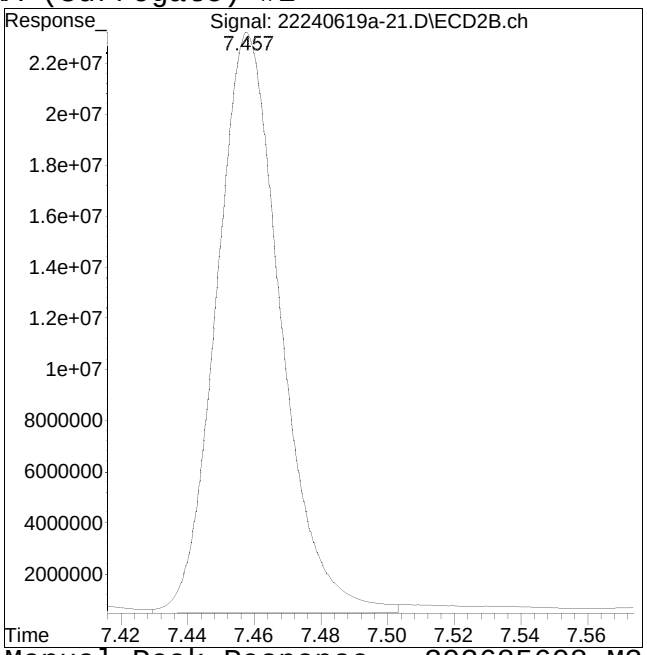
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-21.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:02 pm Instrument : Pest22
Sample : WG1935934-1,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 315135281 Manual Peak Response = 302685608 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-91.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 04:51 pm
Operator : pest22:ejl
Sample : WG1936519-1,42,, 518 519 520 ct (Sig #1); WG1936517-1,42,, 518 519 520 ct (Sig #2)
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:56 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.528	546.7E6	611.2E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 626492017				Recovery =	87.27%	
	Standard Area 1 : #2 = 678959739				Recovery =	90.03%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.988	7.458	267.0E6	260.4E6	0.593M4	0.526M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	118.60%	105.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D.
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t	2,4-DB	0.000	0.000	0	0	N.D.	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

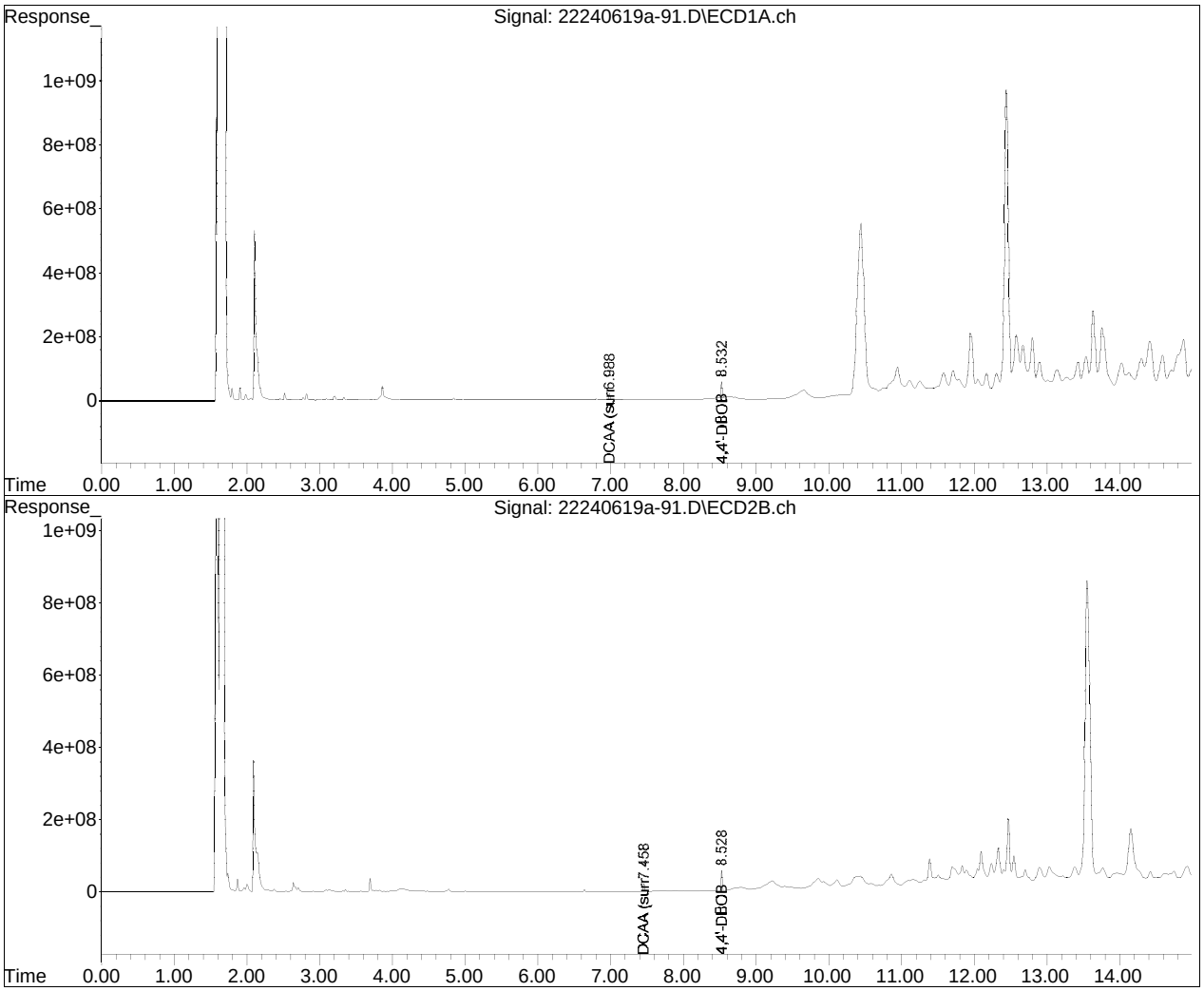
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-87.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-91.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 04:51 pm
Operator : pest22:ejl
Sample : WG1936519-1,42,, 518 519 520 ct (Sig #1); WG1936517-1,42,, 518 519
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:56 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

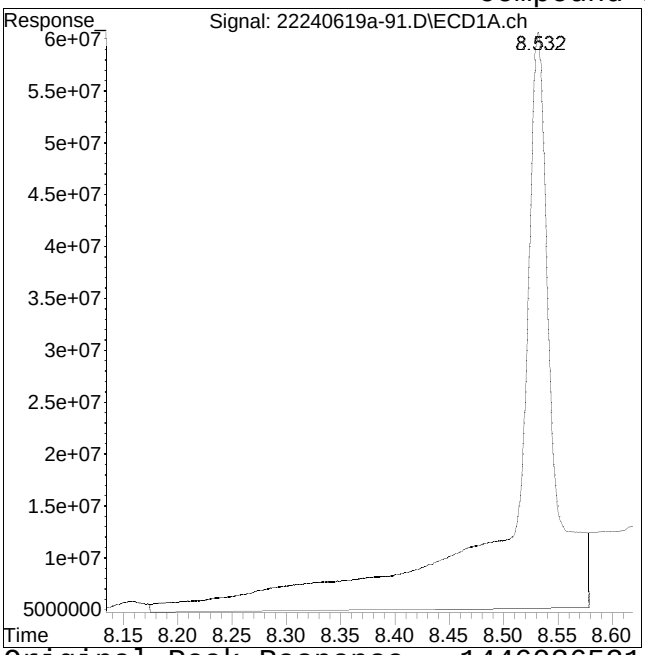
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

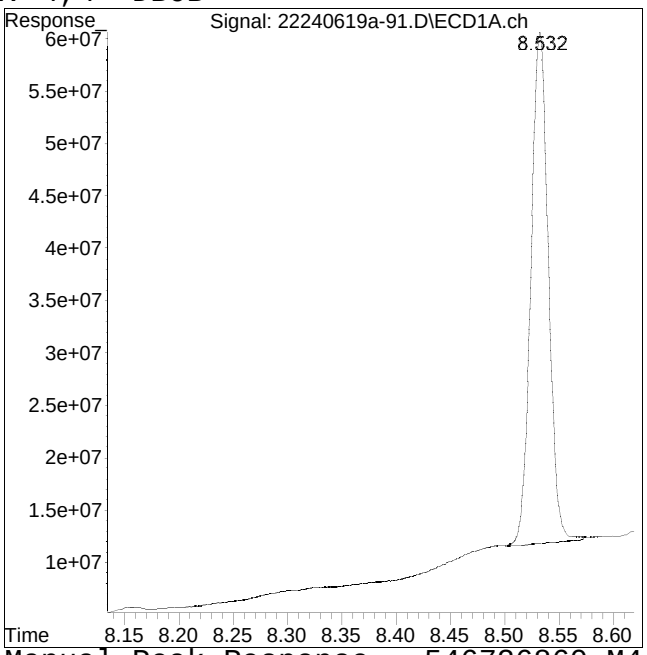


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-91.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 4:51 pm Instrument : Pest22
Sample : WG1936519-1,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #1: 4,4'-DBOB



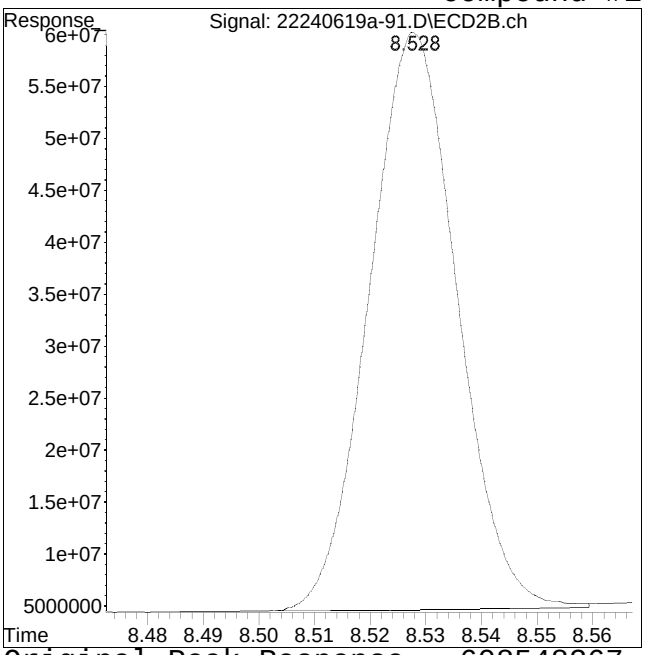


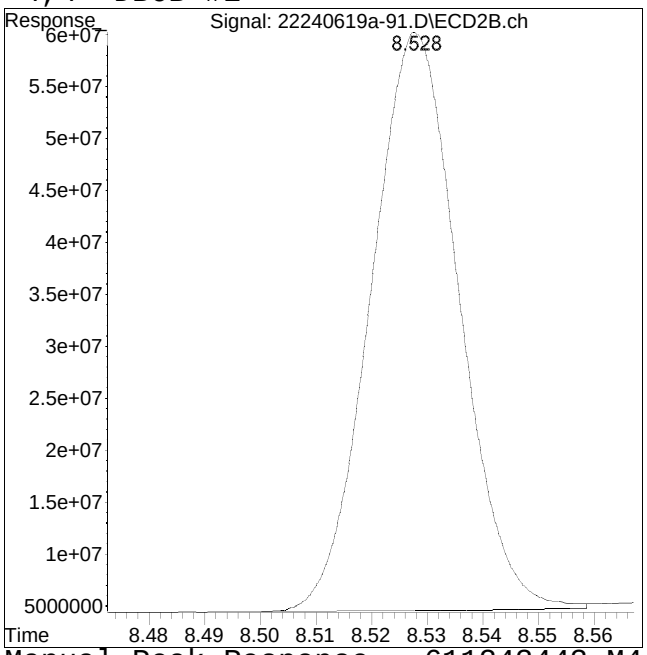
Original Peak Response = 1446036521 Manual Peak Response = 546726860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-91.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 4:51 pm Instrument : Pest22
Sample : WG1936519-1,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #14: 4,4'-DBOB #2



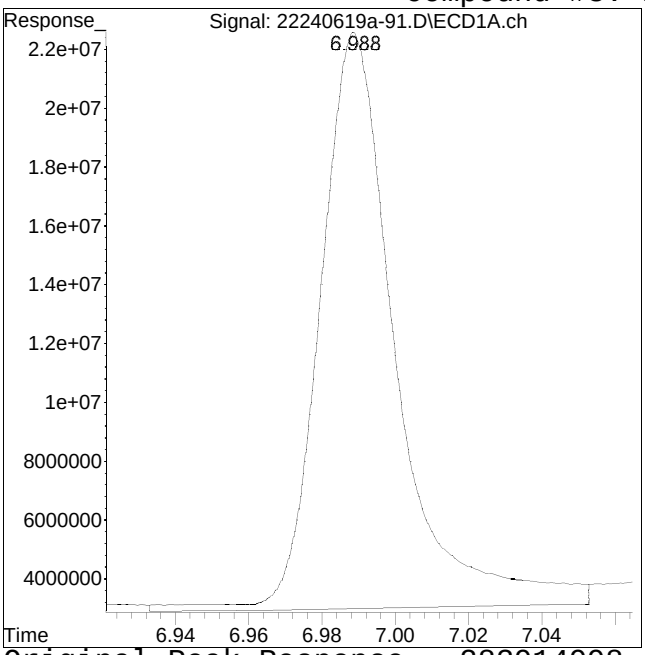


Original Peak Response = 608548367 Manual Peak Response = 611243443 M4
M4 = Poor automated baseline construction.

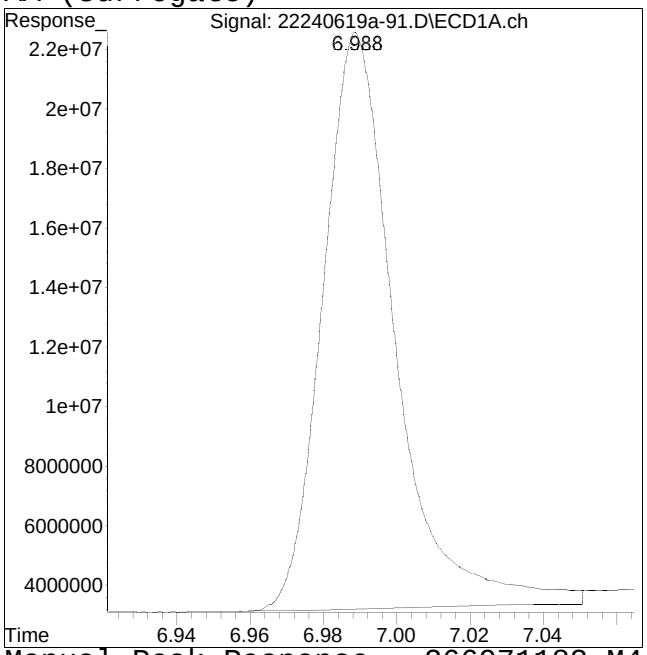
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-91.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 4:51 pm Instrument : Pest22
Sample : WG1936519-1,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 283914998



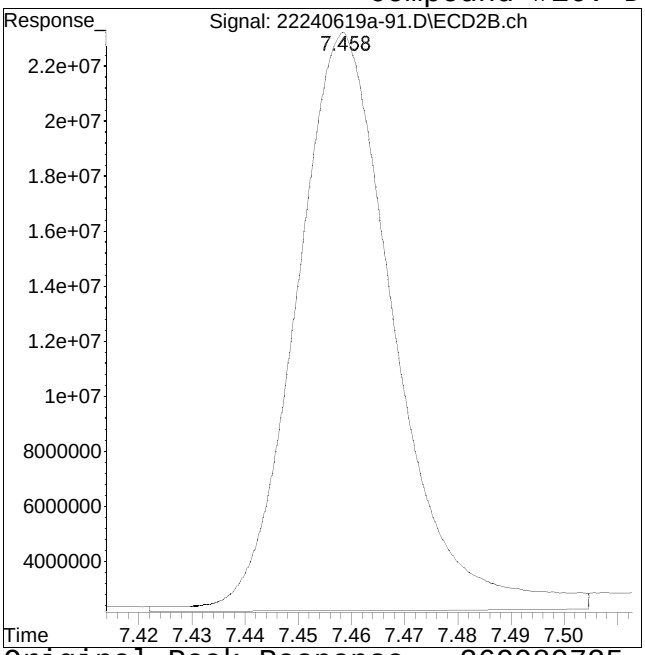
Manual Peak Response = 266971182 M4

M4 = Poor automated baseline construction.

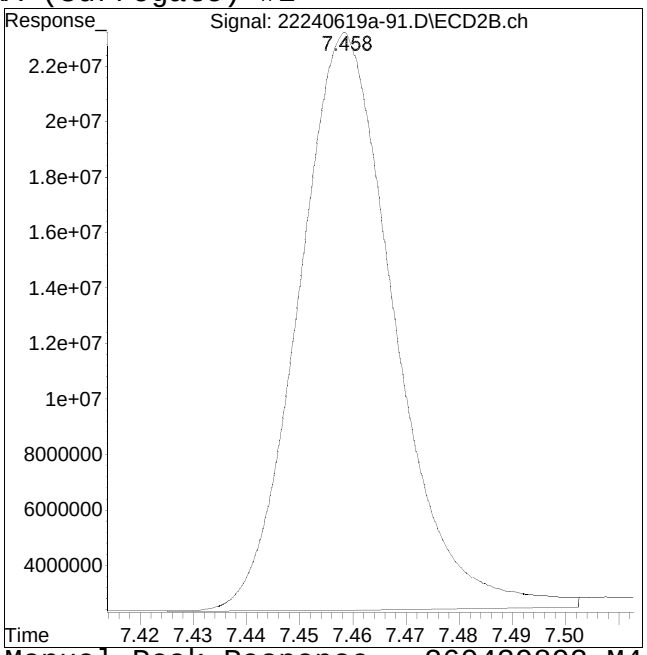
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-91.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 4:51 pm Instrument : Pest22
Sample : WG1936519-1,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 269989725



Manual Peak Response = 260439892 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:21 pm
Operator : pest22:EJL
Sample : WG1935934-2,42,, 934 (Sig #1); WG1935965-2,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:42 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.530	8.526	809.7E6	824.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 883326324				Recovery =	91.67%	
	Standard Area 1 : #2 = 891276115				Recovery =	92.50%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.987	7.456	250.3E6	284.1E6	0.376M3	0.425M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	75.20%	85.00%
	Target Compounds						
2) t	Dalapon	2.390	2.388	239.3E6	269.5E6	0.350M4	0.414M4
4) t	Dicamba	7.169	7.637	752.7E6	757.2E6	0.394M3	0.387M3
5) t	MCPP	7.371	7.749	108.2E6	87458227	64.099M4	36.033M4
6) t	MCPA	7.517	7.974	157.1E6	175.8E6	50.191M4	42.997M3
7) t	Dichloroprop	7.873	8.293	231.0E6	243.1E6	0.369M3	0.384M4
8) t	2,4-D	8.092f	8.569f	295.1E6	431.4E6	0.380M3	0.551M4
9) t	2,4,5-TP (Si	8.804f	9.224	1089.4E6	1325.1E6	0.388M4	0.469M4
10) t	2,4,5-T	9.024f	9.514f	1190.3E6	1163.2E6	0.431M2	0.425M4
11) t	2,4-DB	9.429f	9.873f	172.9E6	185.1E6	0.404M3	0.399M3
12) t	Dinoseb	10.178	10.097	649.2E6	628.6E6	0.407M3	0.388M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:21 pm
Operator : pest22:EJL
Sample : WG1935934-2,42,, 934 (Sig #1); WG1935965-2,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:42 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

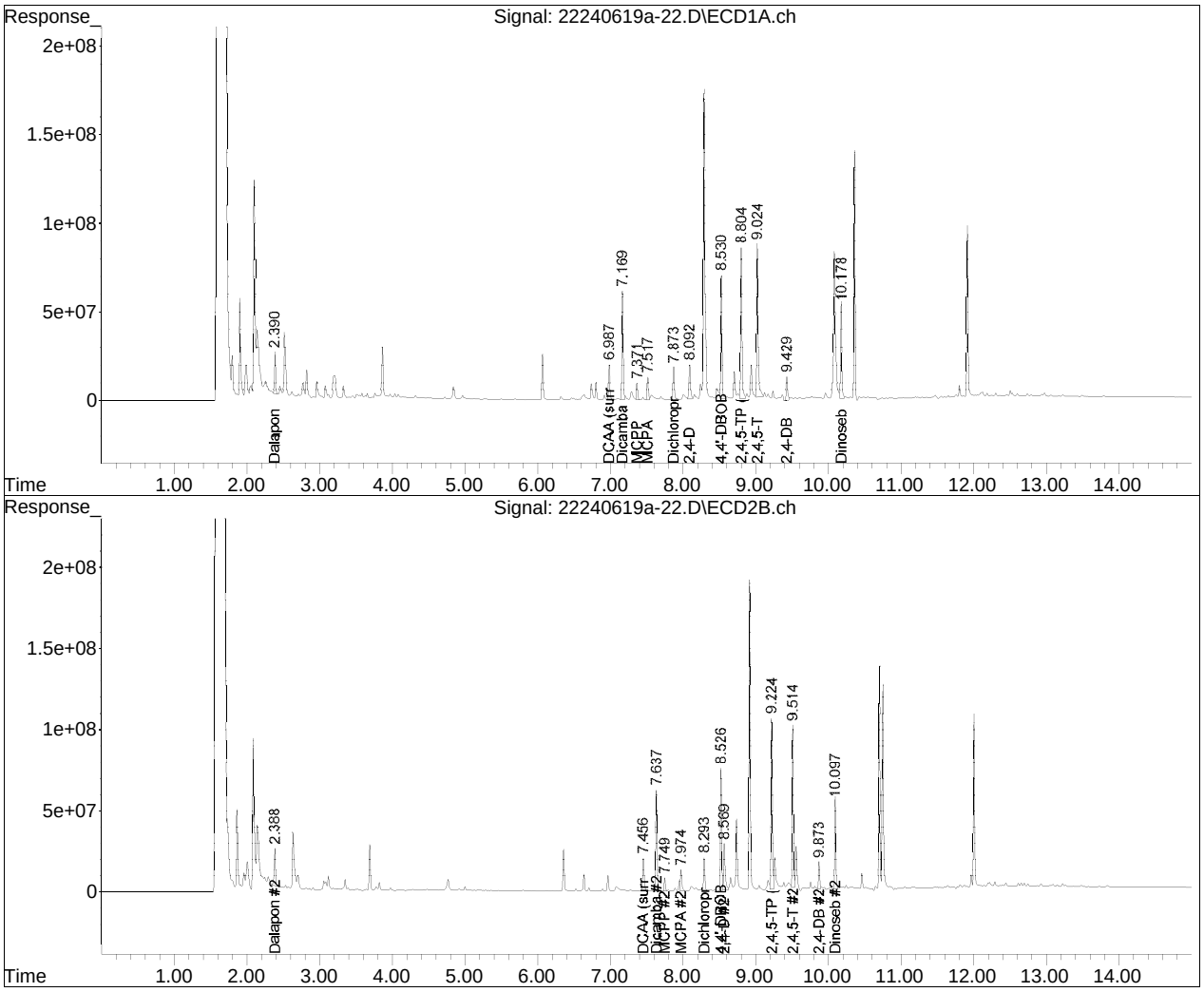
Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:21 pm
Operator : pest22:EJL
Sample : WG1935934-2,42,, 934 (Sig #1); WG1935965-2,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:42 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

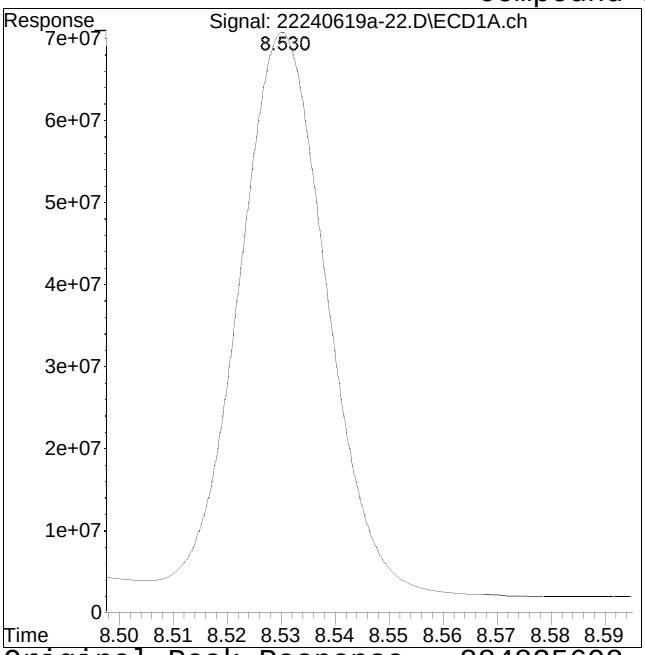
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



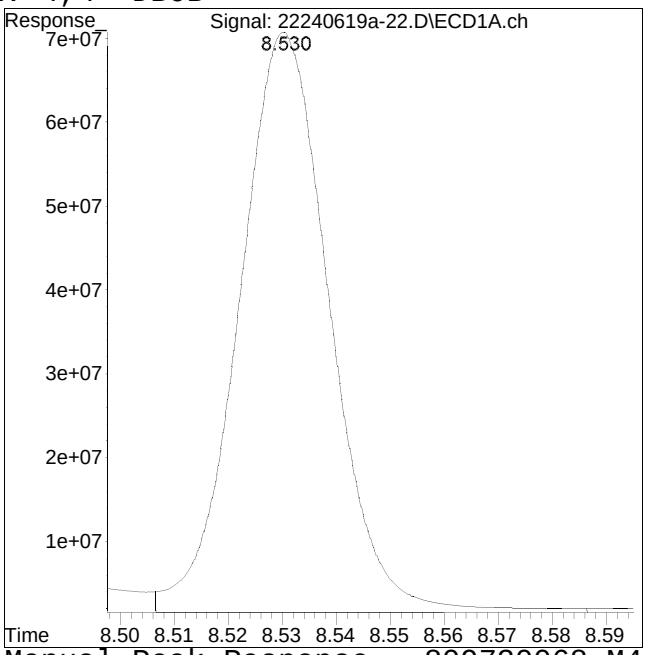
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 884825608



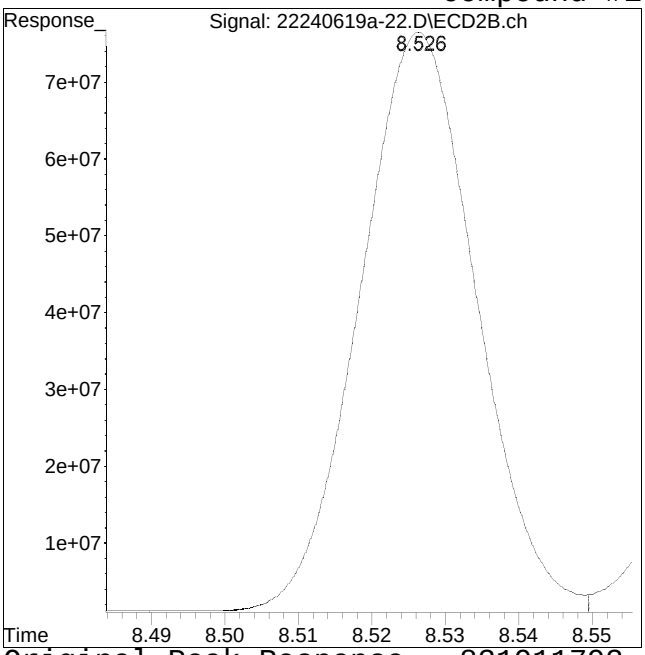
Manual Peak Response = 809730068 M4

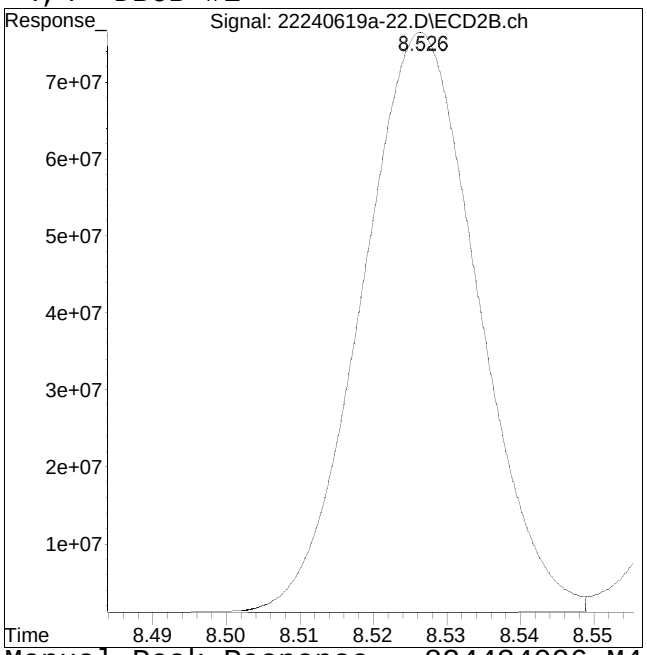
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #14: 4,4'-DBOB #2



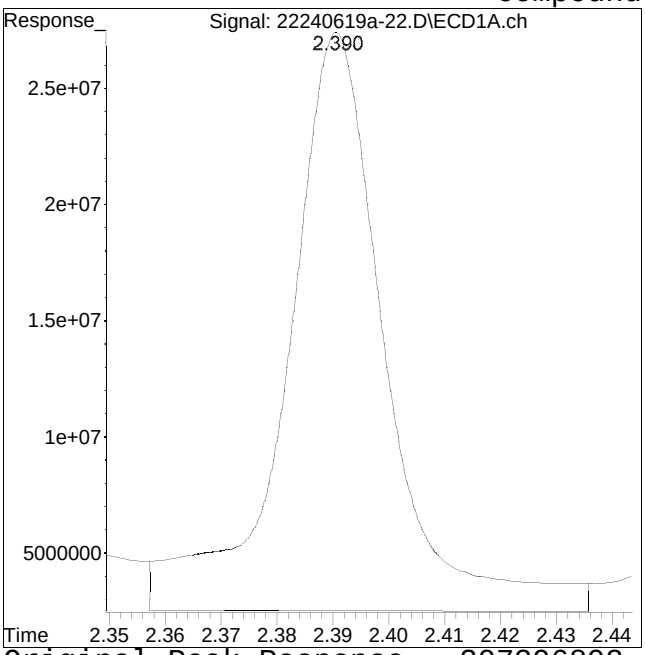


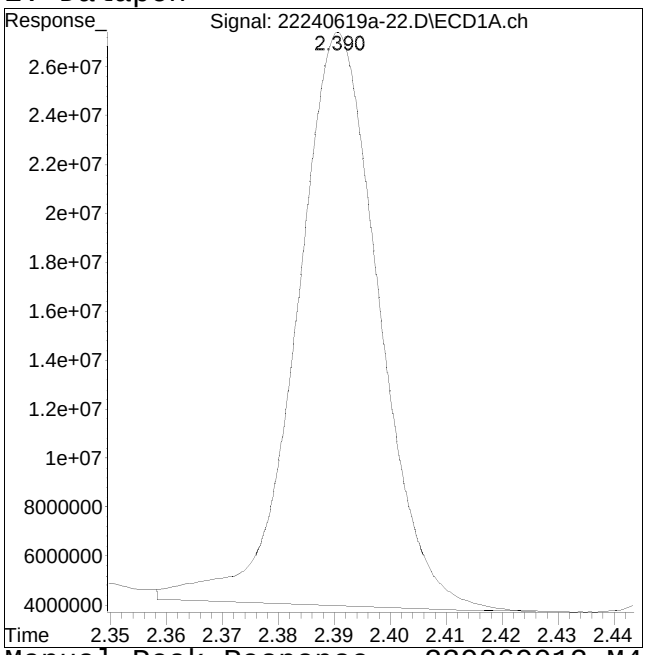
Original Peak Response = 831911793 Manual Peak Response = 824434096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #2: Dalapon



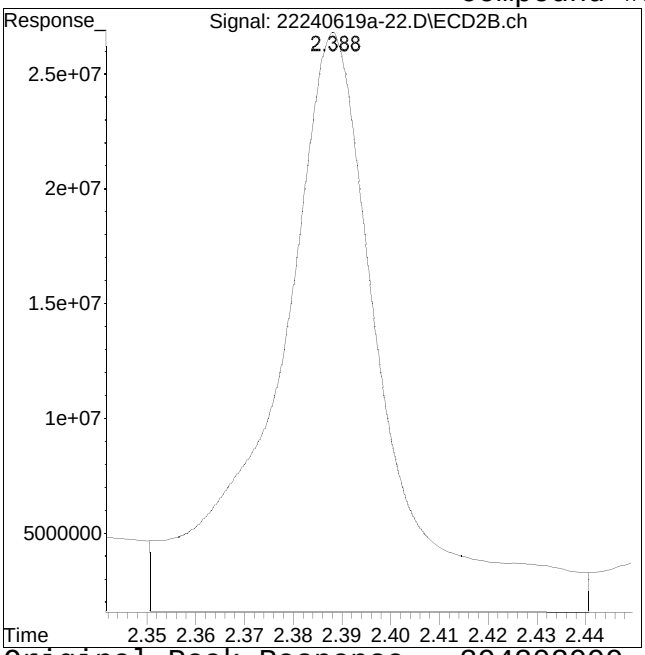


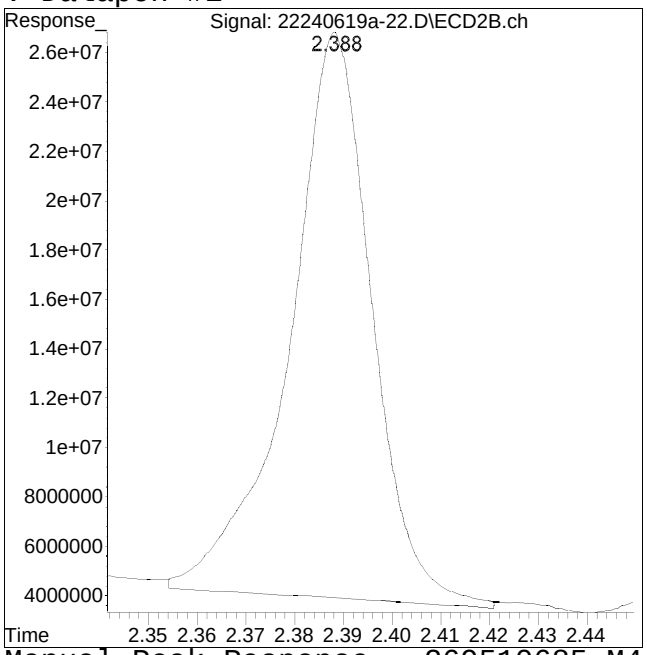
Original Peak Response = 307396892 Manual Peak Response = 239269012 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #15: Dalapon #2



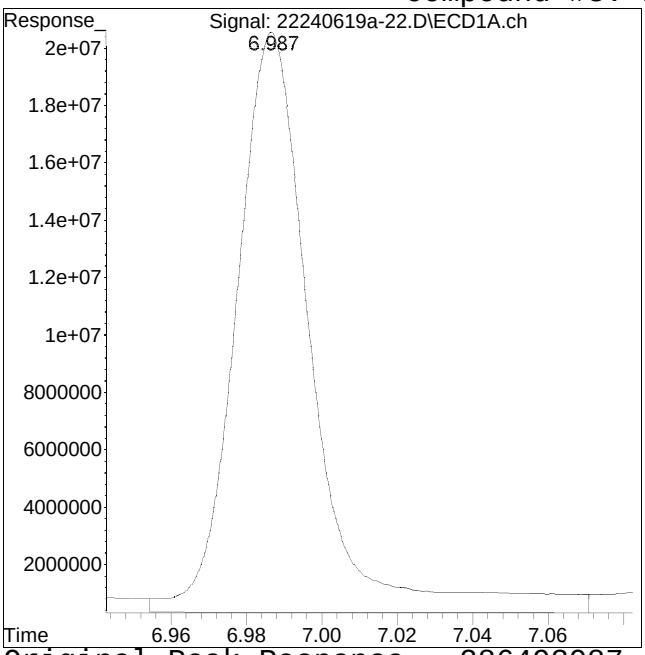


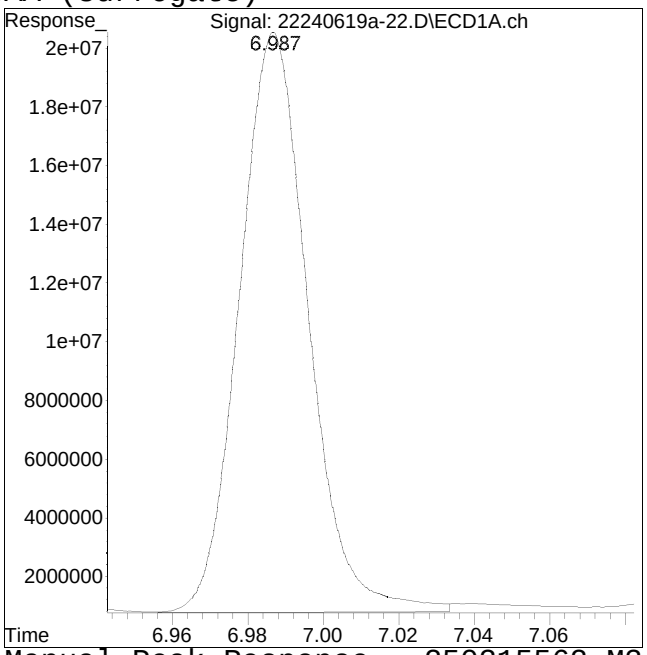
Original Peak Response = 394302999 Manual Peak Response = 269510685 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #3: DCAA (surrogate)



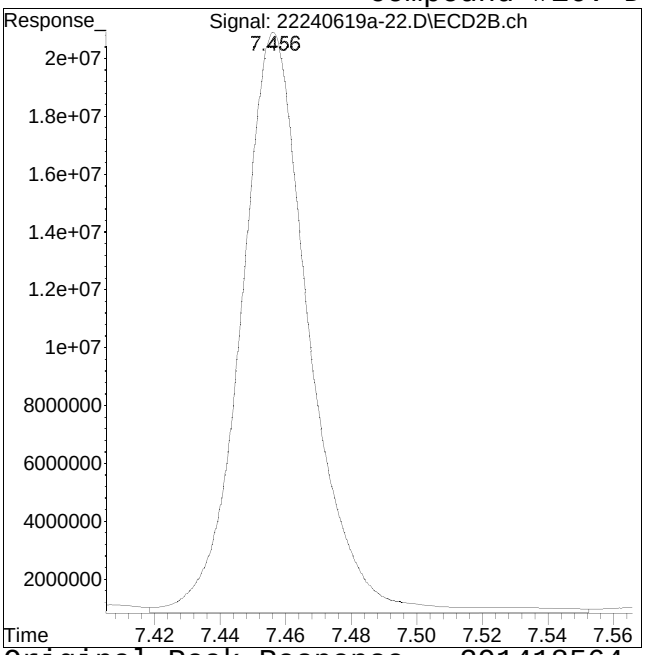


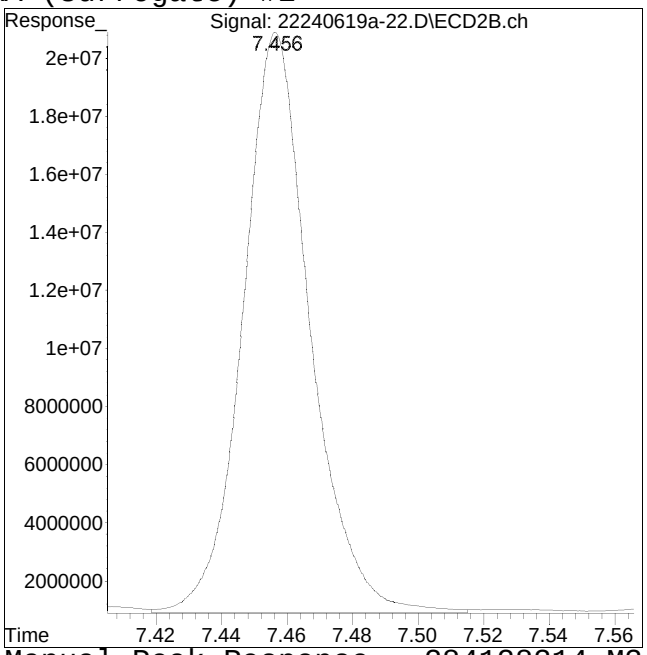
Original Peak Response = 286493987 Manual Peak Response = 250315562 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #16: DCAA (surrogate) #2



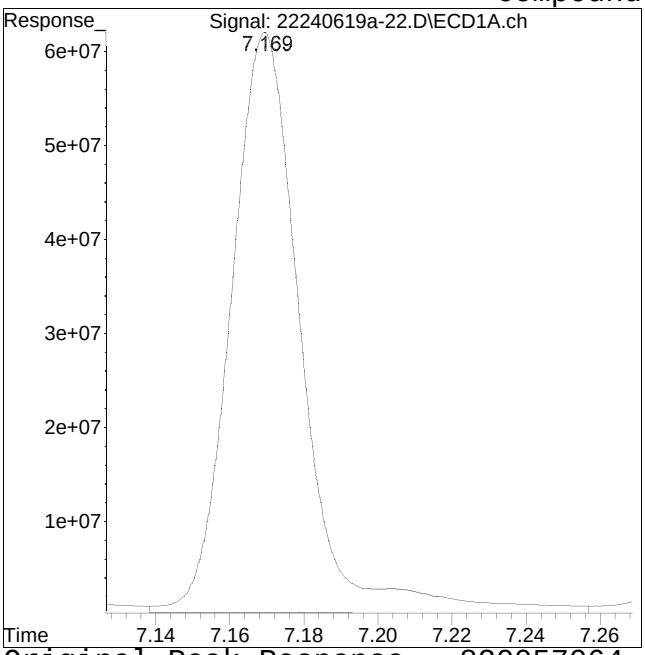


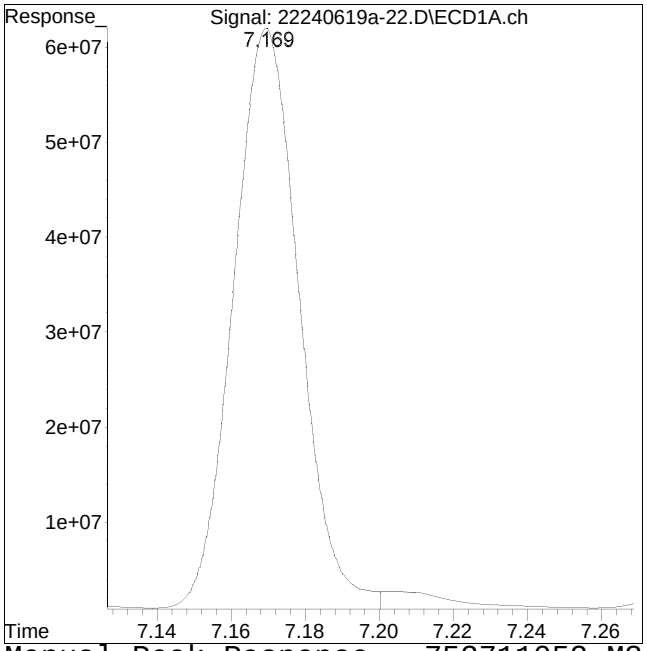
Original Peak Response = 291418564 Manual Peak Response = 284128314 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #4: Dicamba



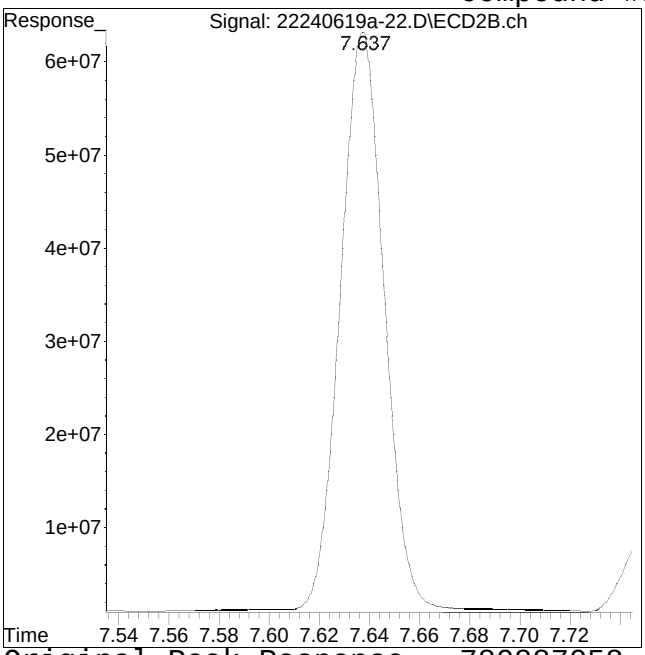


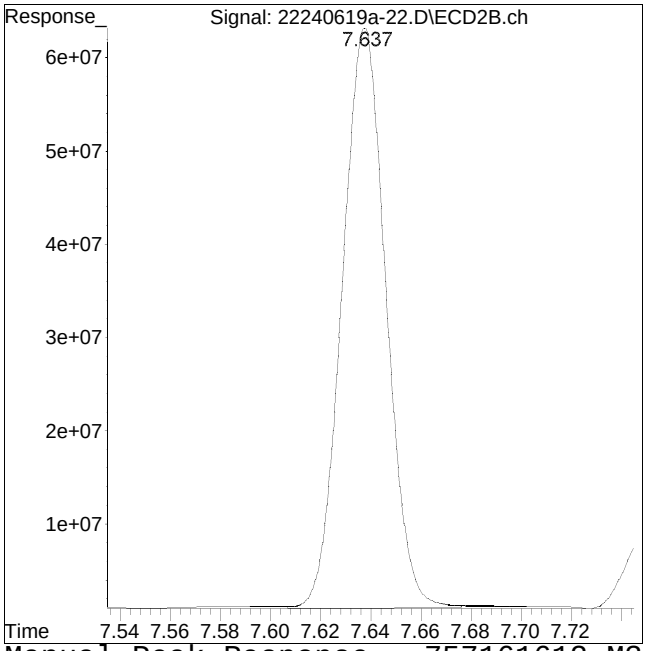
Original Peak Response = 820057064 Manual Peak Response = 752711052 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #17: Dicamba #2



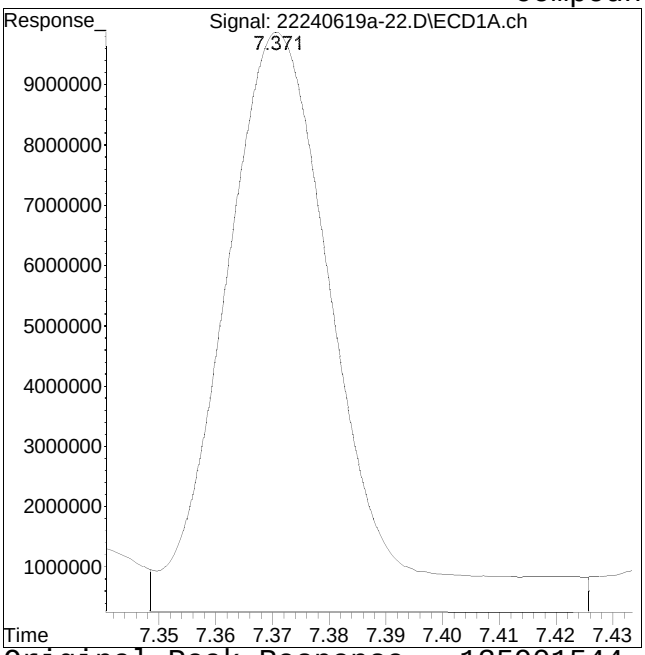


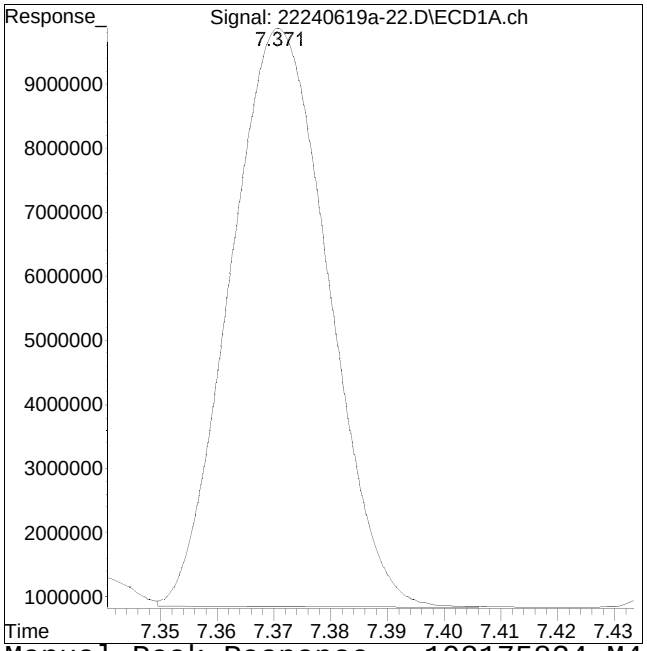
Original Peak Response = 780887058 Manual Peak Response = 757161612 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #5: MCPP



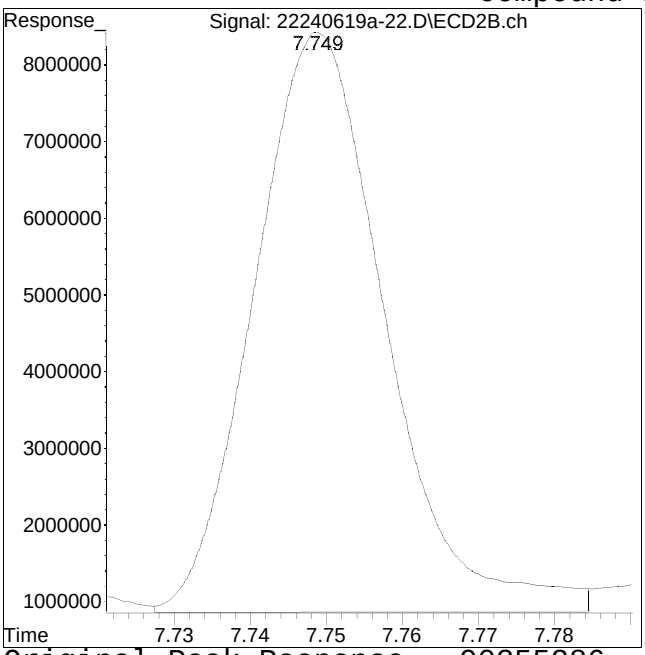


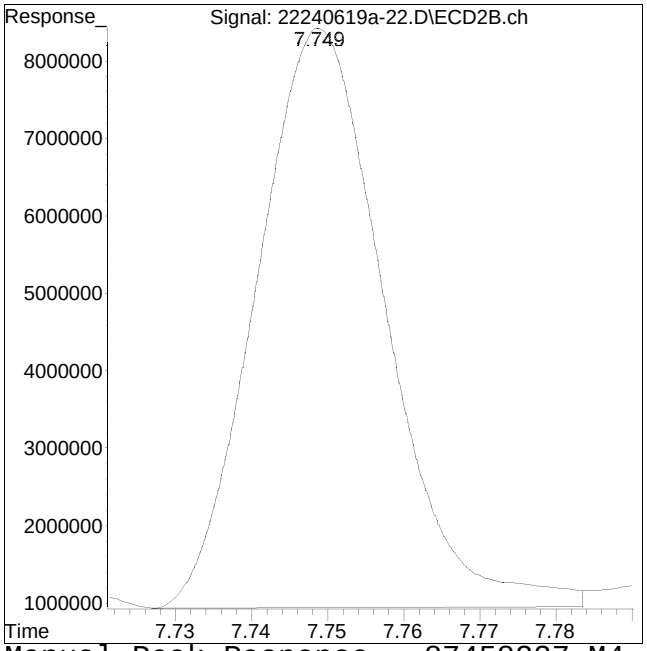
Original Peak Response = 135901544 Manual Peak Response = 108175824 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #18: MCPP #2



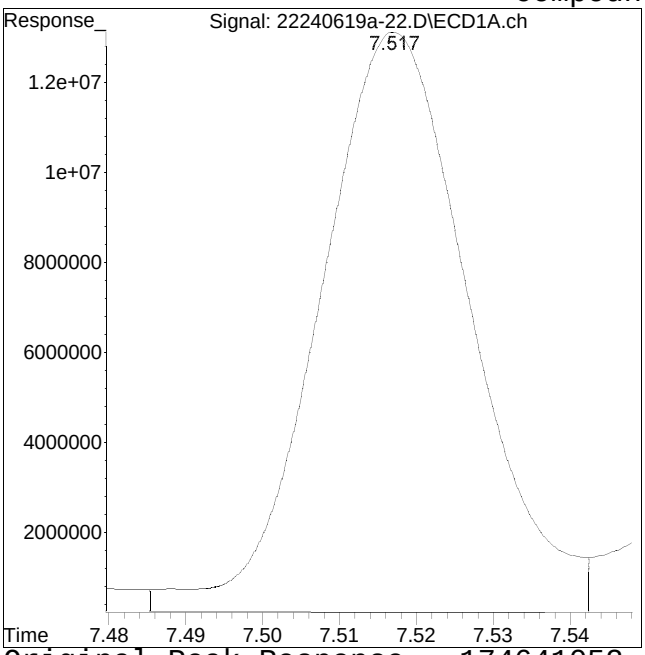


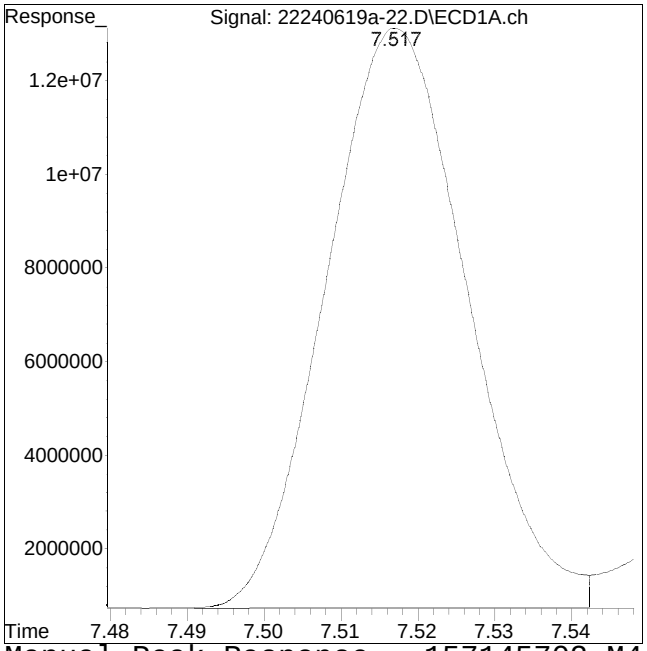
Original Peak Response = 90355286 Manual Peak Response = 87458227 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #6: MCPA



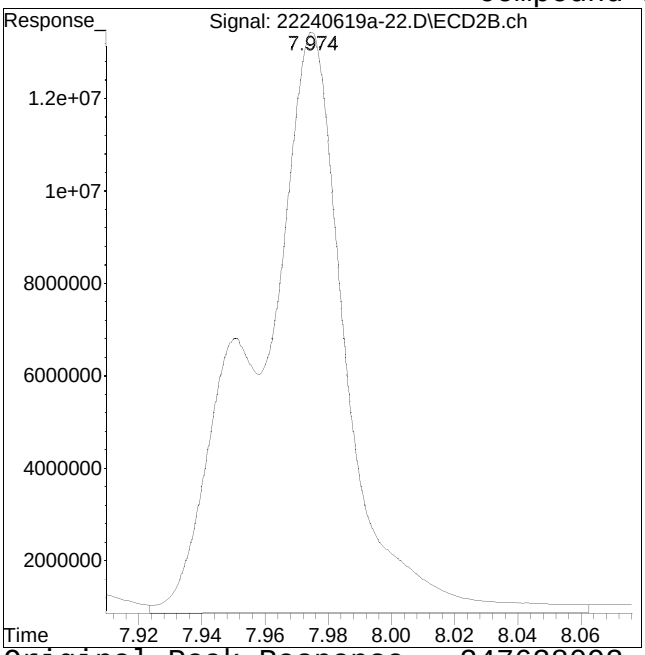


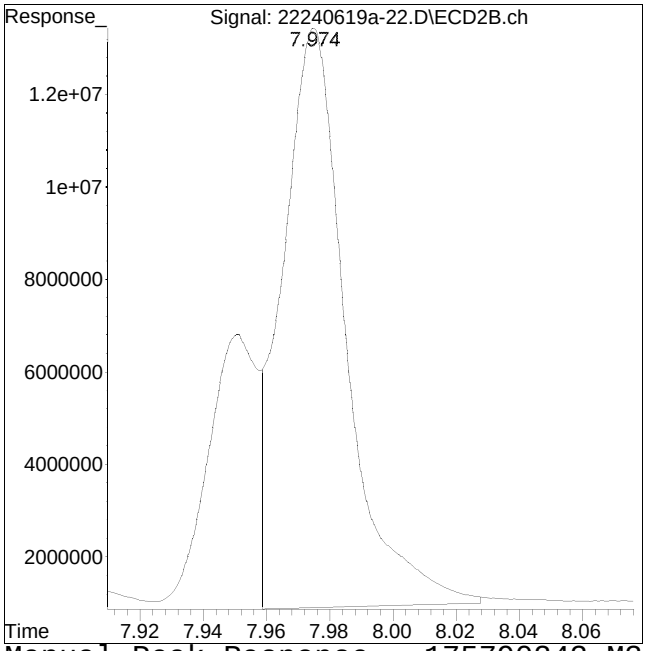
Original Peak Response = 174641052 Manual Peak Response = 157145702 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #19: MCPA #2



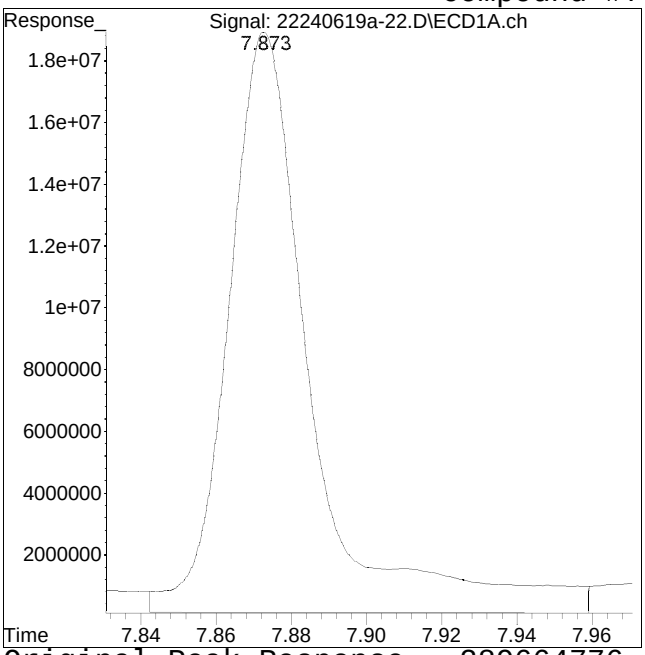


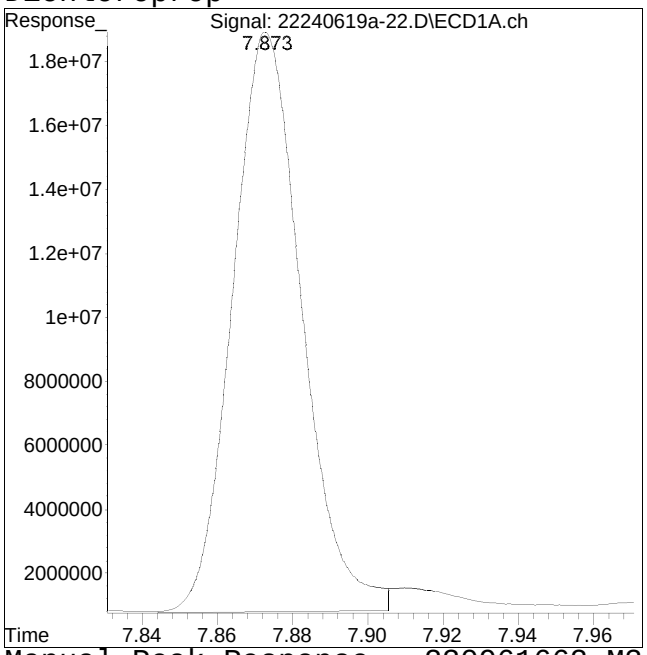
Original Peak Response = 247638093 Manual Peak Response = 175790243 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #7: Dichloroprop

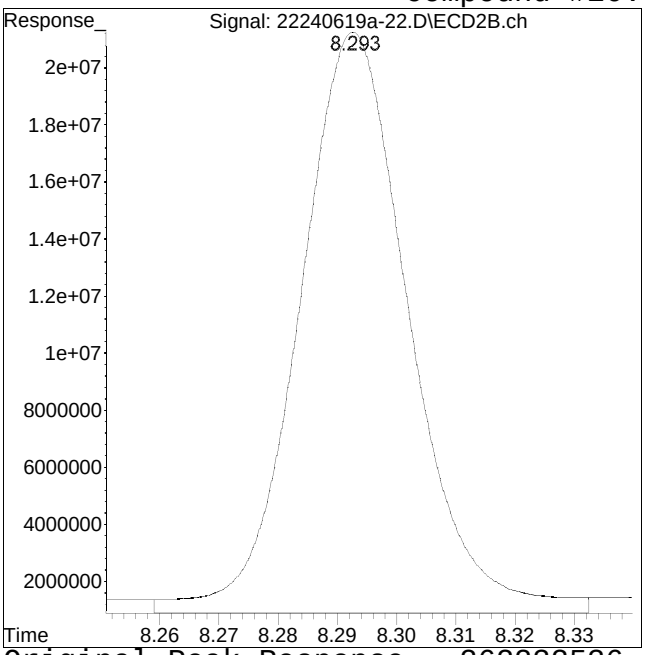




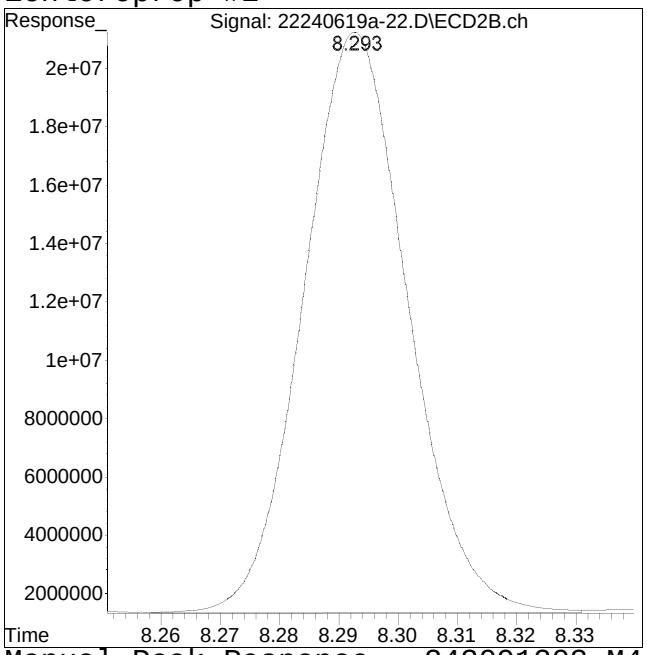
Original Peak Response = 289664776 Manual Peak Response = 230961662 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #20: Dichloroprop #2



Original Peak Response = 262232536



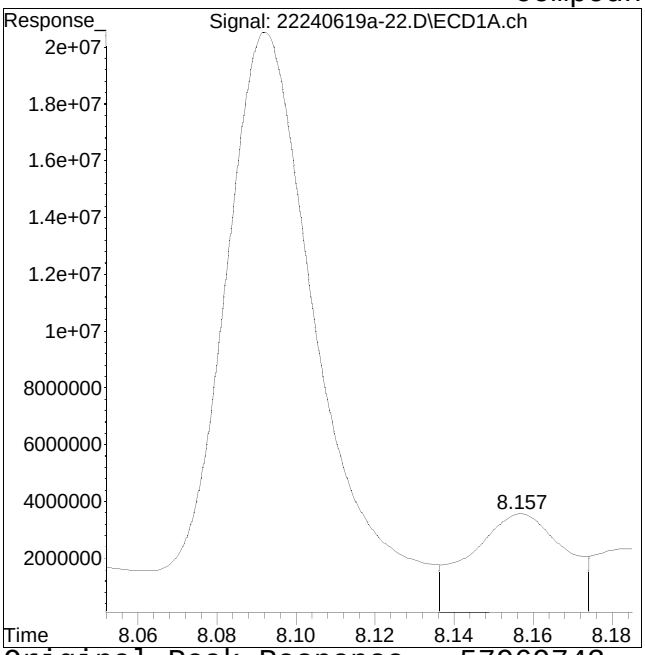
Manual Peak Response = 243091203 M4

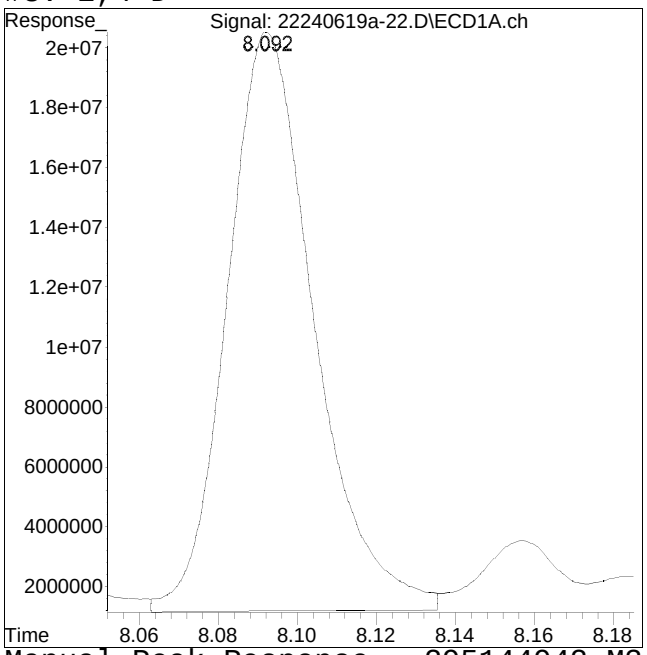
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #8: 2,4-D



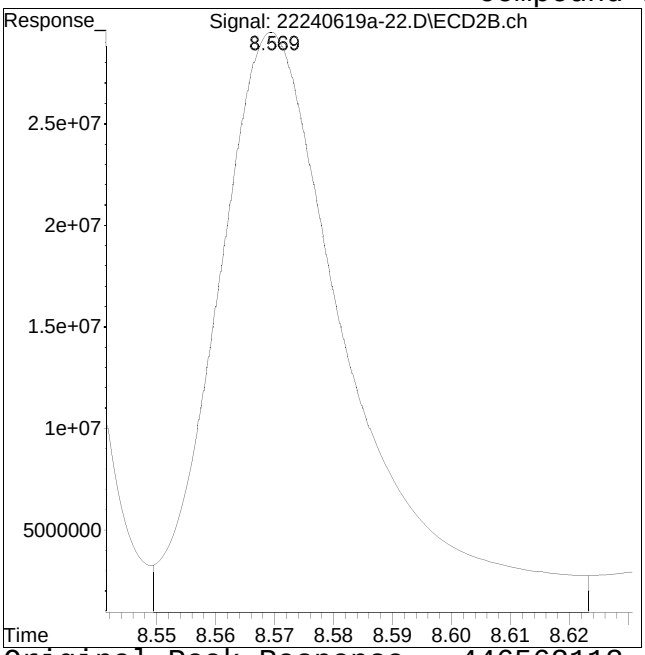


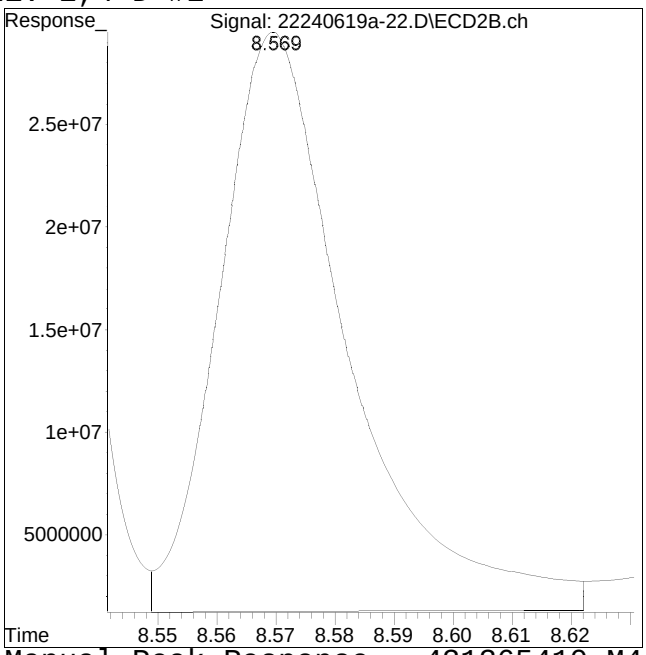
Original Peak Response = 57969743 Manual Peak Response = 295144942 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #21: 2,4-D #2



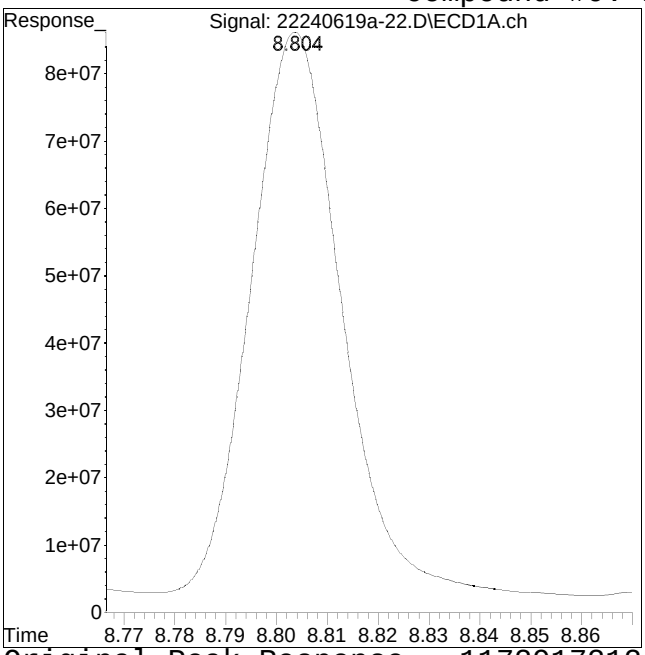


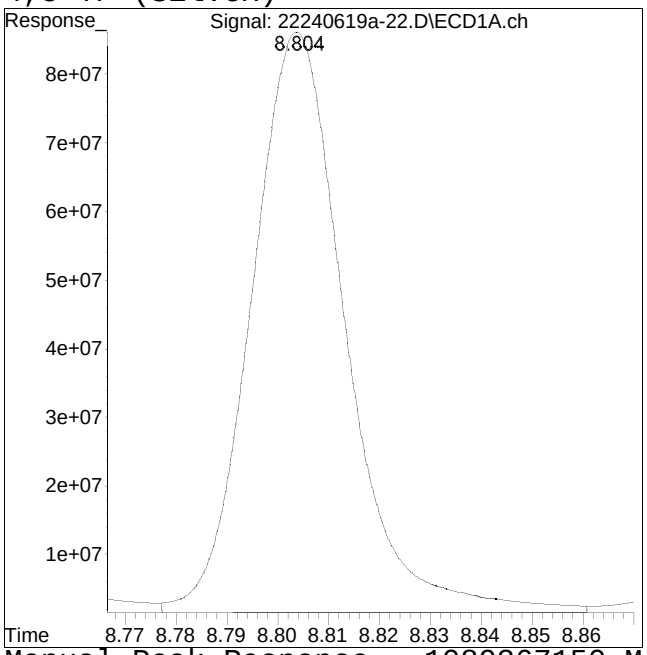
Original Peak Response = 446562113 Manual Peak Response = 431365410 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #9: 2,4,5-TP (Silvex)



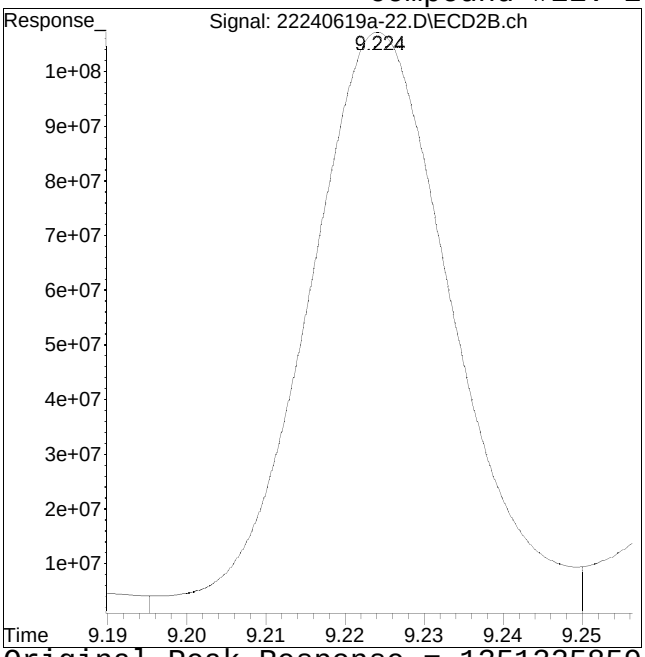


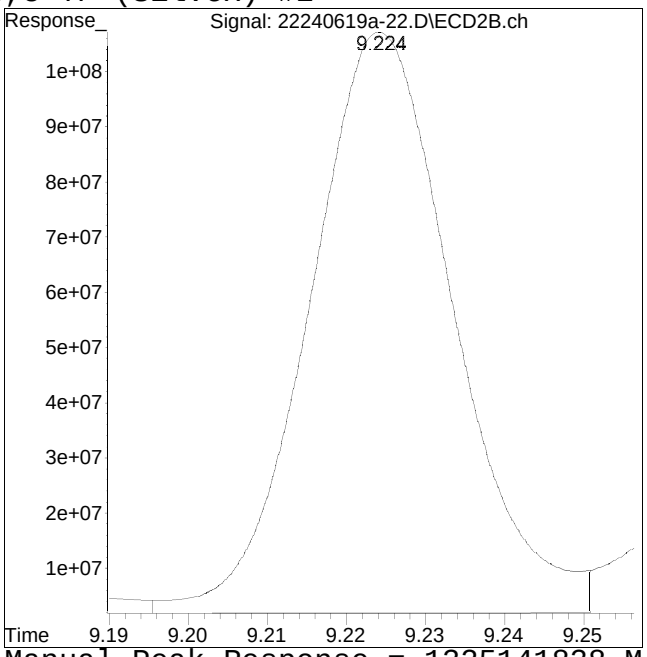
Original Peak Response = 1172917212 Manual Peak Response = 1089367150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #22: 2,4,5-TP (Silvex) #2



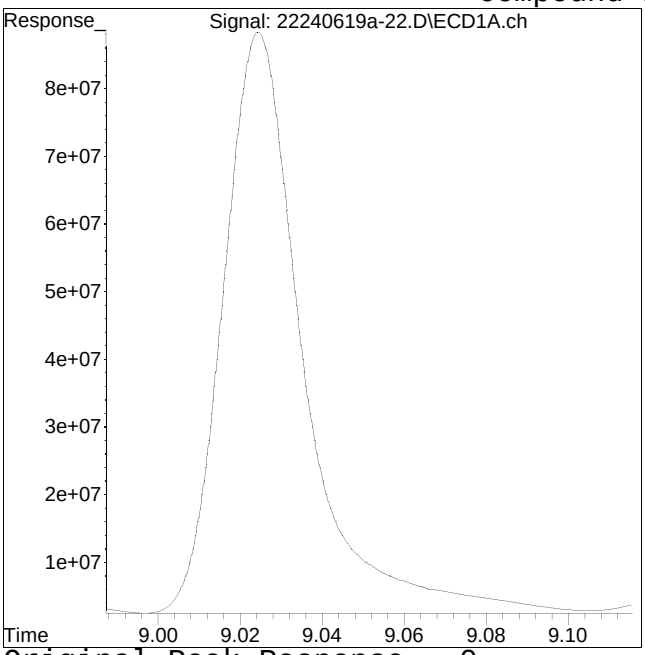


Original Peak Response = 1351325859 Manual Peak Response = 1325141838 M4
M4 = Poor automated baseline construction.

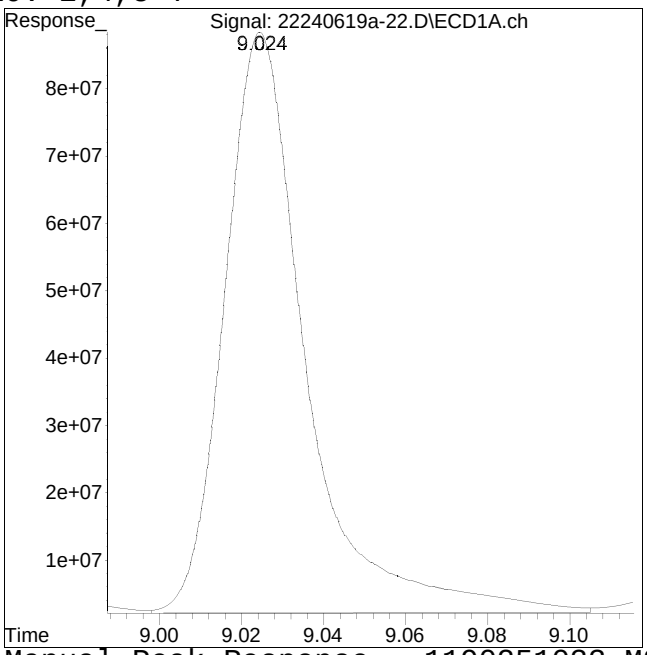
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #10: 2,4,5-T



Original Peak Response = 0



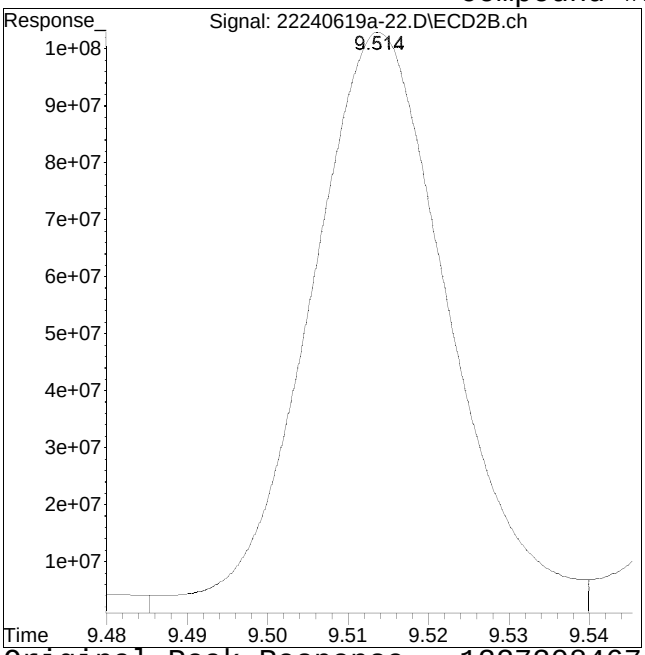
Manual Peak Response = 1190251033 M2

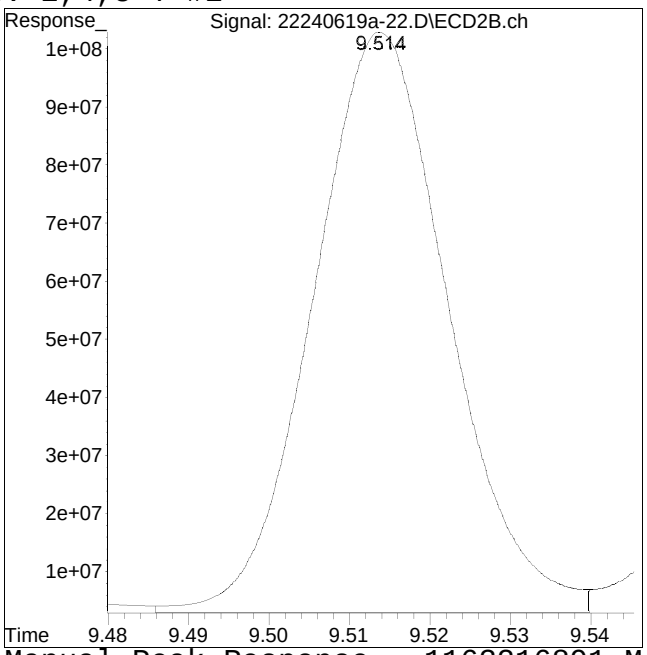
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #23: 2,4,5-T #2



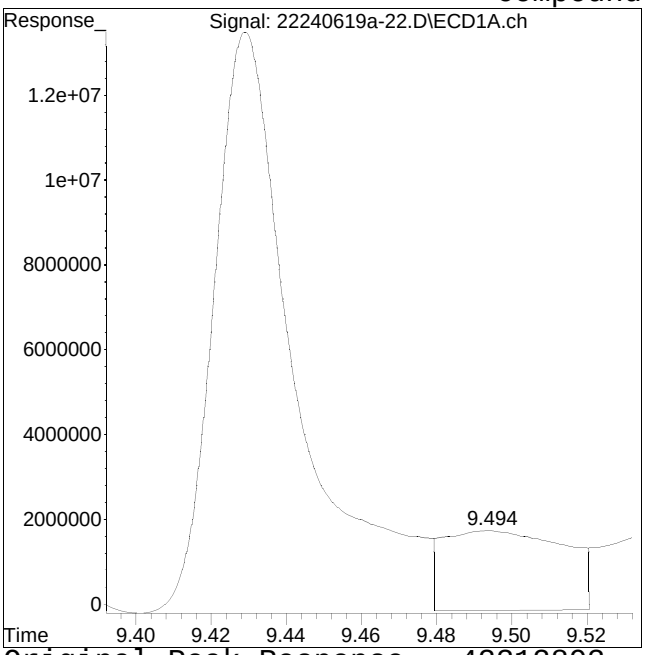


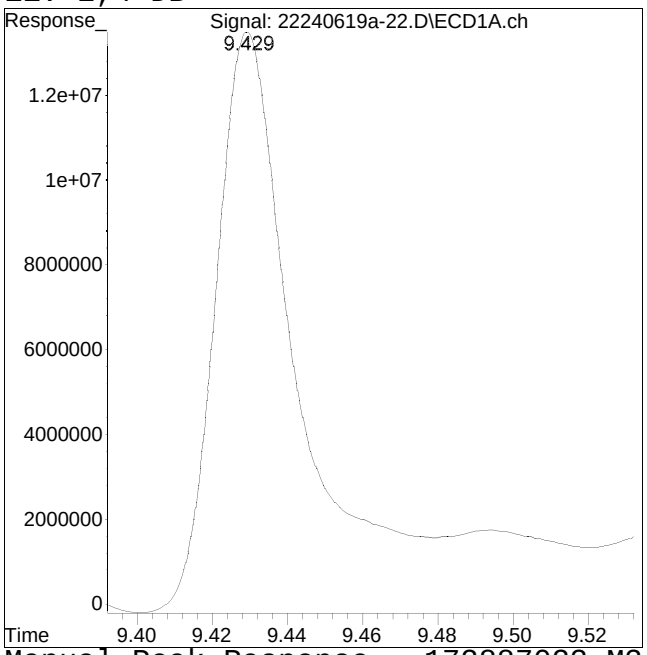
Original Peak Response = 1227308467 Manual Peak Response = 1163216891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #11: 2,4-DB



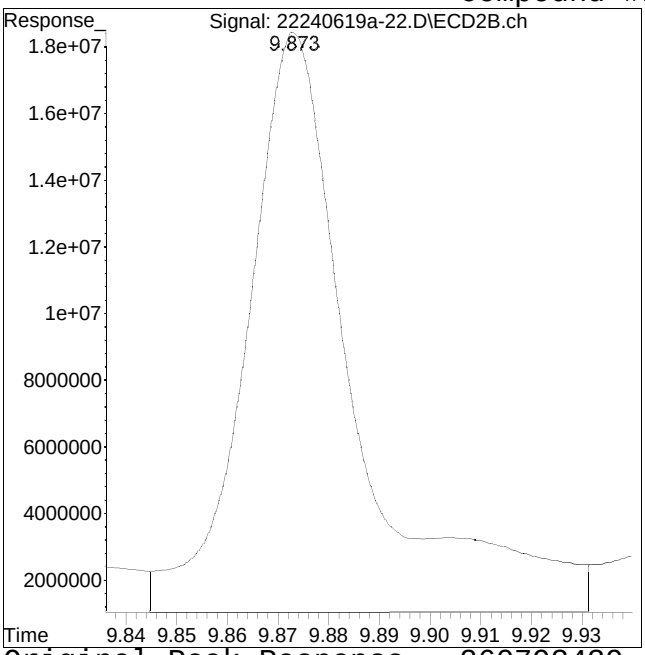


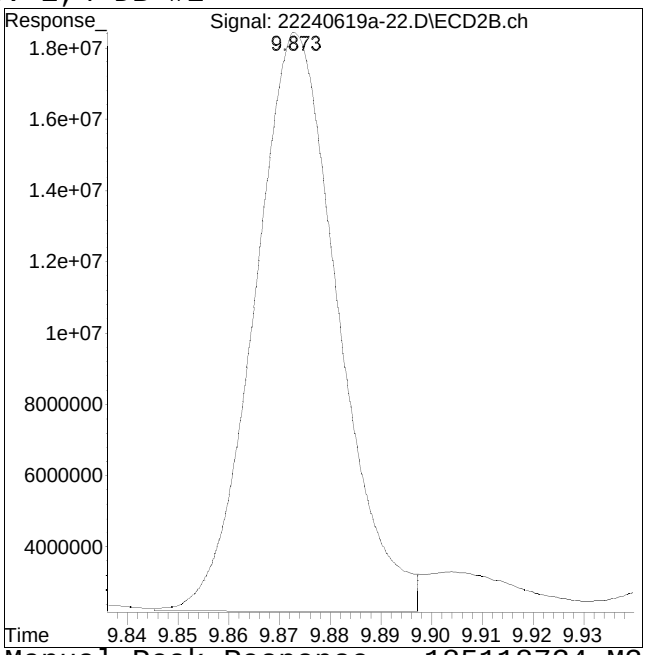
Original Peak Response = 42312893 Manual Peak Response = 172887023 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #24: 2,4-DB #2



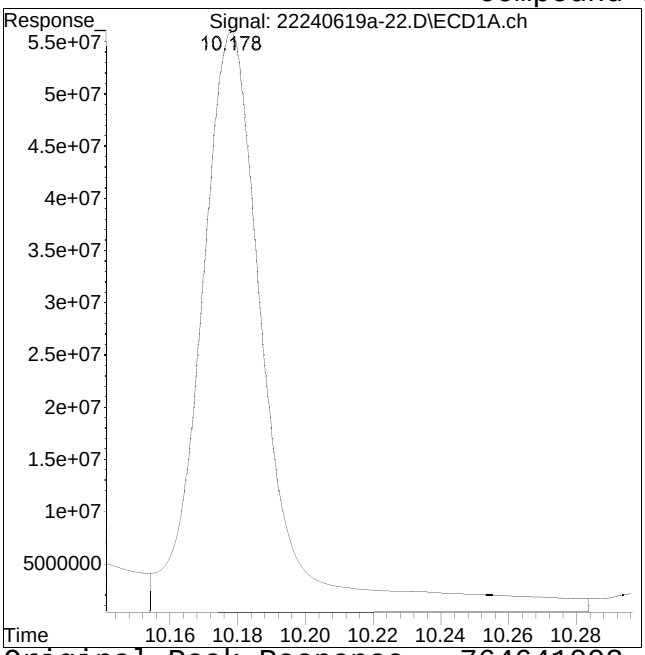


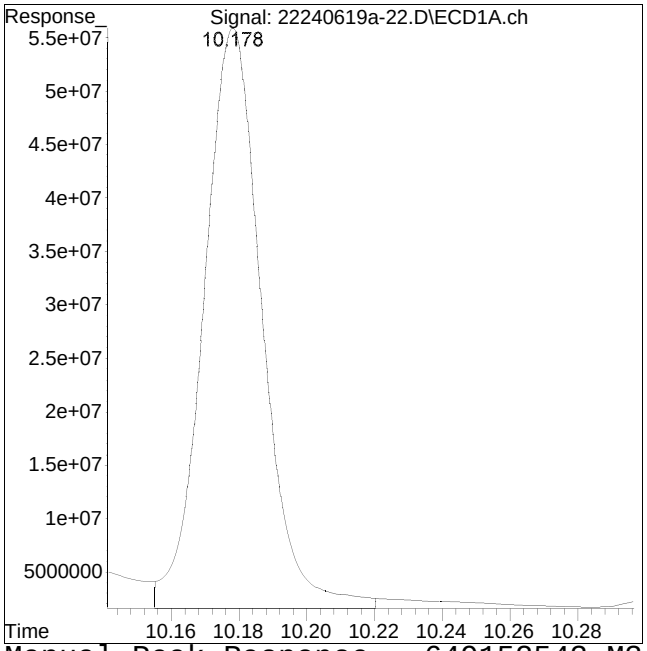
Original Peak Response = 260793439 Manual Peak Response = 185118734 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #12: Dinoseb



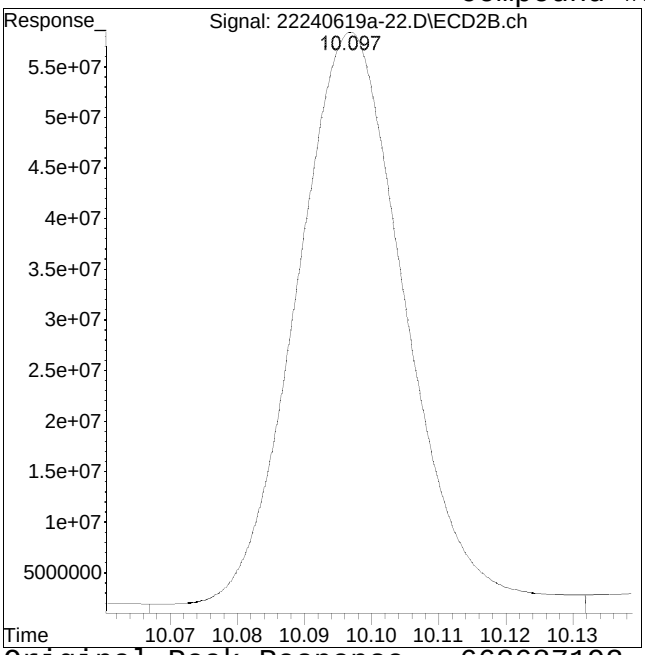


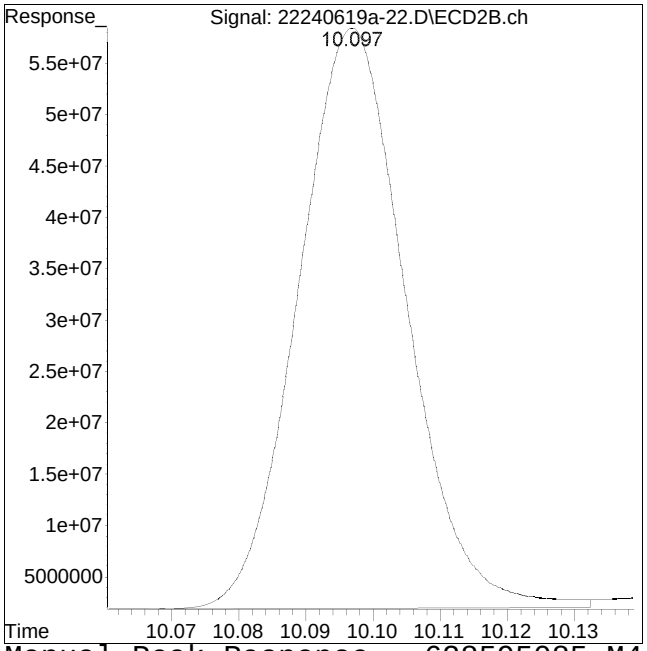
Original Peak Response = 764641003 Manual Peak Response = 649152543 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #25: Dinoseb #2





Original Peak Response = 663687192 Manual Peak Response = 628595085 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-92.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:10 pm
Operator : pest22:ejl
Sample : WG1936519-2,42,, 518 519 520 ct (Sig #1); WG1936517-2,42,, 518 519 520 ct (Sig #2)
Misc : wg1936304,WG1936519,ical21040 (Sig #1); wg1936304,WG1936517,ical21040 (Sig #2)
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:58 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.531	8.527	641.1E6	668.3E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 626492017				Recovery = 102.34%		
	Standard Area 1 : #2 = 678959739				Recovery = 98.42%		
	System Monitoring Compounds						
3) s	DCAA (surrog	6.987	7.457	257.3E6	293.1E6	0.488M4	0.541M3
	Spiked Amount 0.500	Range 30 - 150		Recovery =	97.60%	108.20%	
	Target Compounds						
2) t	Dalapon	2.392	2.390	267.4E6	323.4E6	0.493M3	0.613M4
4) t	Dicamba	7.170	7.638	812.1E6	816.3E6	0.538M3	0.515M3
5) t	MCPP	7.372	7.750	126.1E6	100.7E6	94.334M4	51.162M4
6) t	MCPA	7.519	7.977	178.6E6	161.2E6	72.062M4	48.630M3
7) t	Dichloroprop	7.872	8.294	233.3E6	252.1E6	0.471M3	0.491M4
8) t	2,4-D	8.086f	8.569f	286.8E6	332.6E6	0.466M3	0.524M4
9) t	2,4,5-TP (Si	8.802f	9.225	996.2E6	1007.9E6	0.448M4	0.440M4
10) t	2,4,5-T	9.023f	9.515f	1011.6E6	1098.2E6	0.462M2	0.495
11) t	2,4-DB	9.430f	9.874f	238.6E6	183.6E6	0.704M2	0.488M3
12) t	Dinoseb	10.178	10.098	480.0E6	586.0E6	0.380M3	0.447M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-92.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:10 pm
Operator : pest22:ejl
Sample : WG1936519-2,42,, 518 519 520 ct (Sig #1); WG1936517-2,42,, 518 519 520 ct (Sig #2)
Misc : wg1936304,WG1936519,ical21040 (Sig #1); wg1936304,WG1936517,ical21040 (Sig #2)
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:58 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

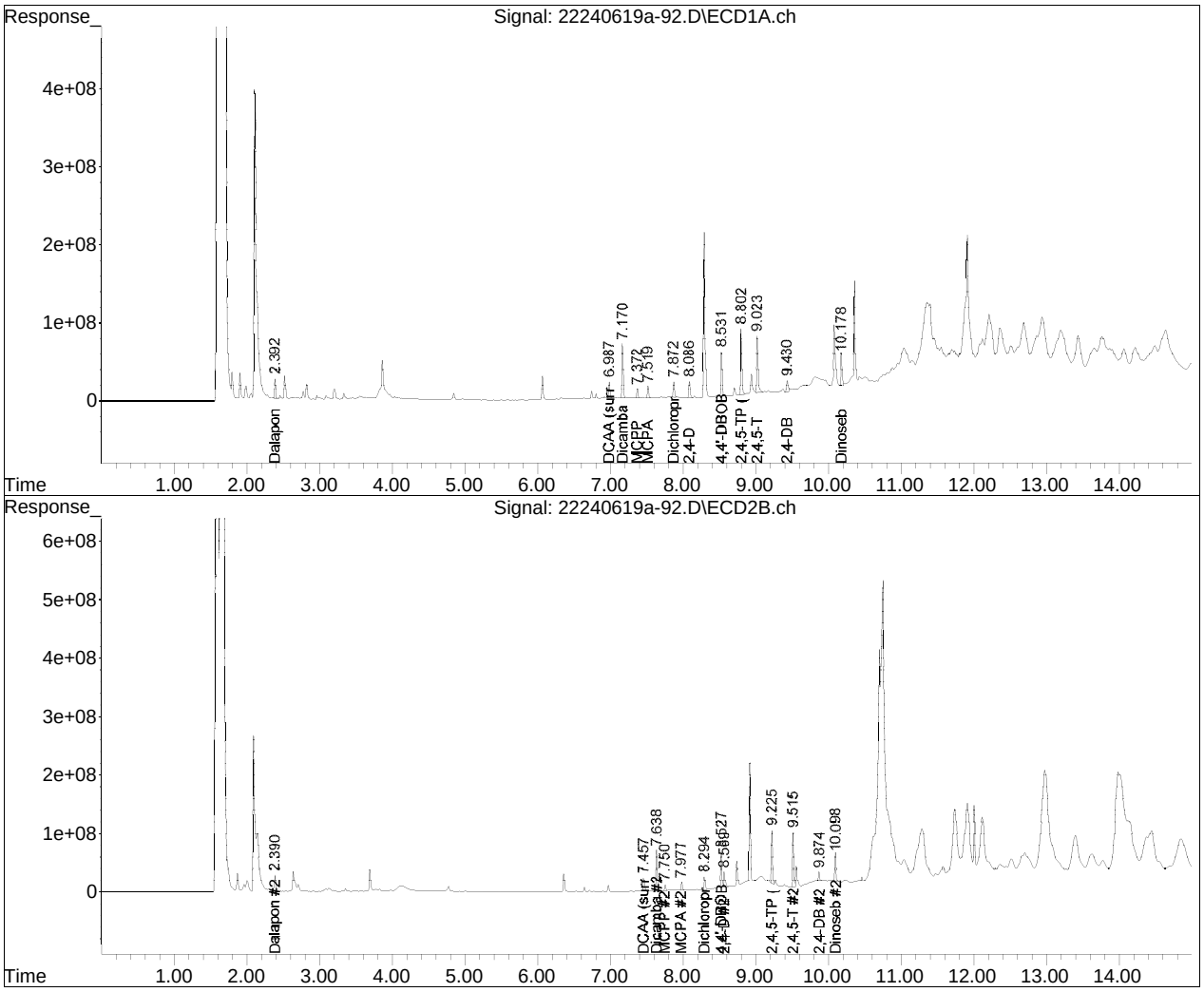
Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Sub List : Default - All compounds listeda\22240619a-87.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-92.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:10 pm
Operator : pest22:ejl
Sample : WG1936519-2,42,, 518 519 520 ct (Sig #1); WG1936517-2,42,, 518 519
Misc : wg1936304,WG1936519,ical21040 (Sig #1); wg1936304,WG1936517,ical21
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:58 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

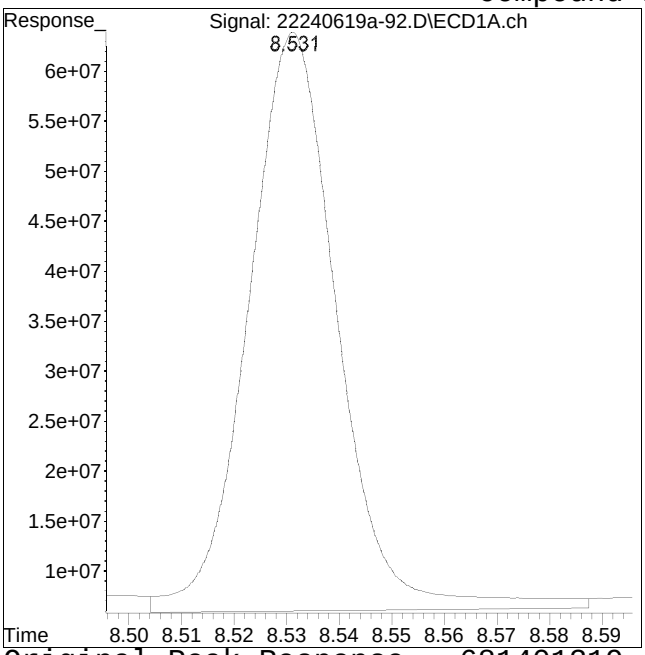
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

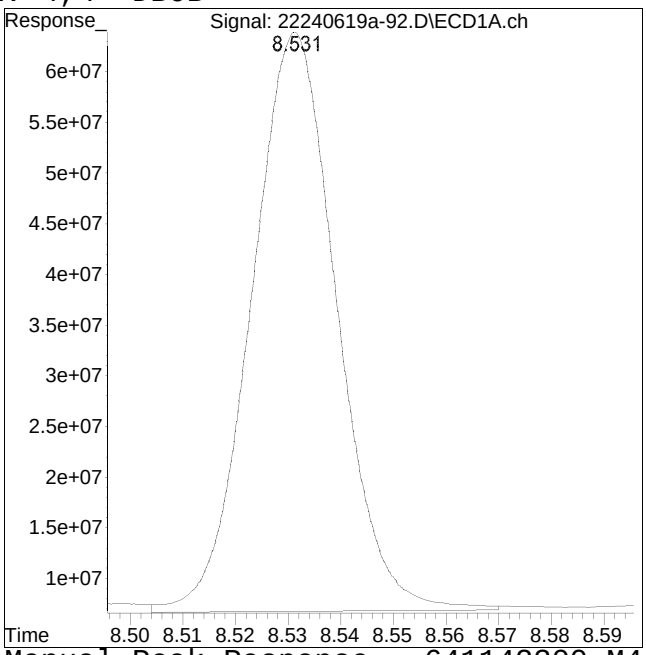


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #1: 4,4'-DBOB



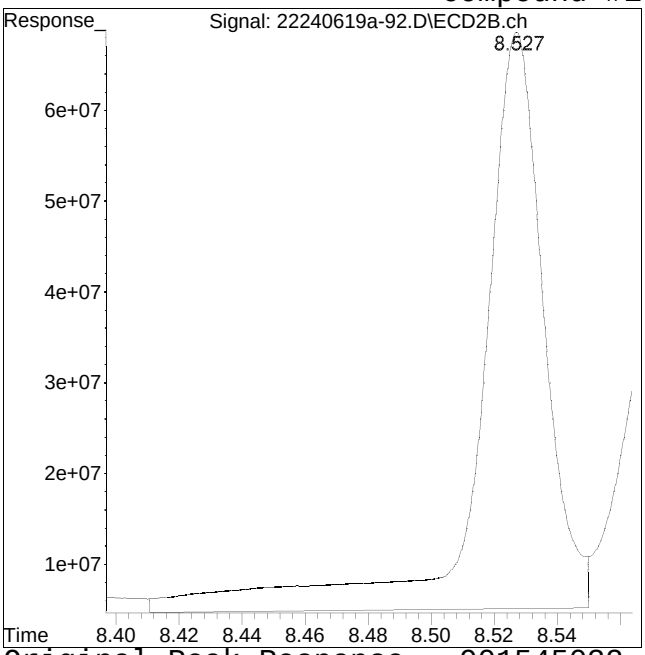


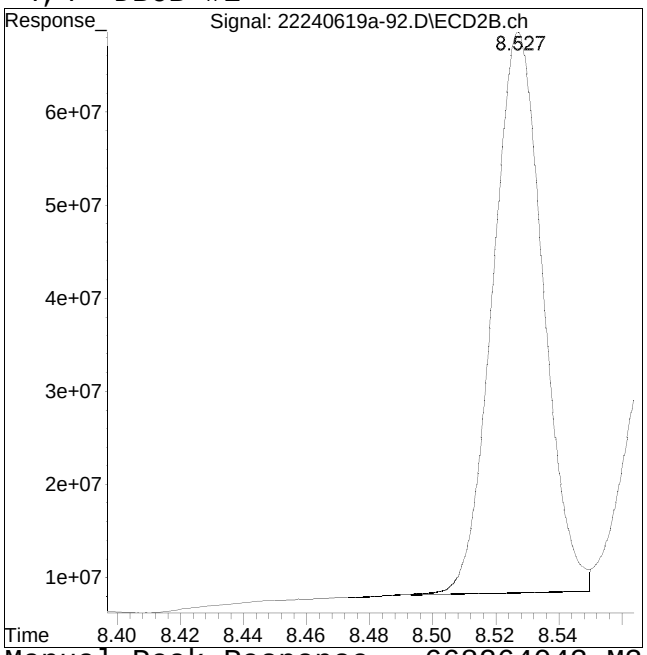
Original Peak Response = 681401319 Manual Peak Response = 641142300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #14: 4,4'-DBOB #2



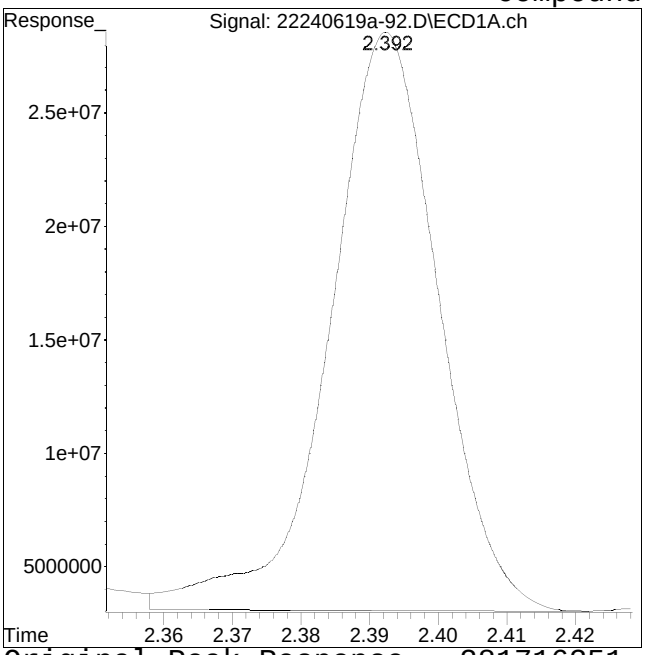


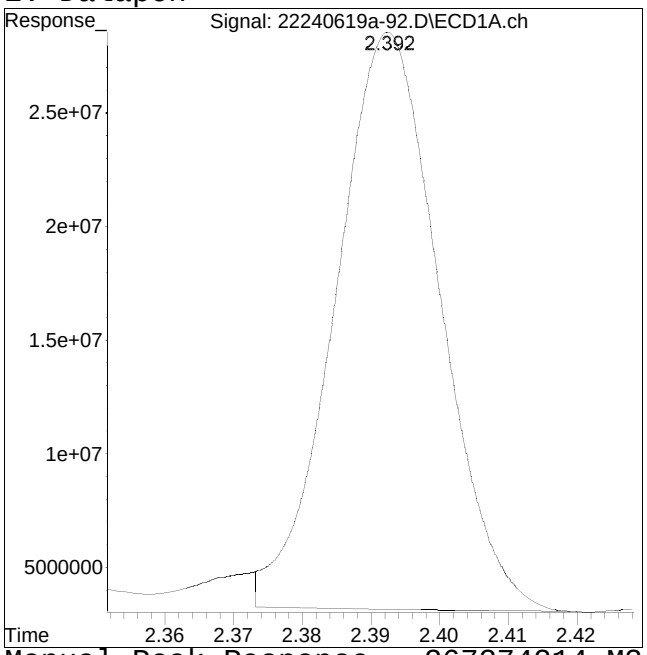
Original Peak Response = 901545032 Manual Peak Response = 668264043 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #2: Dalapon



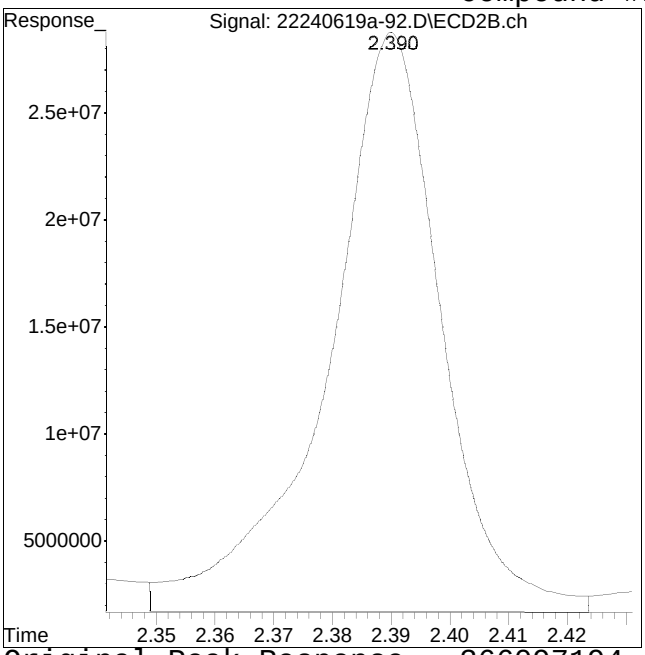


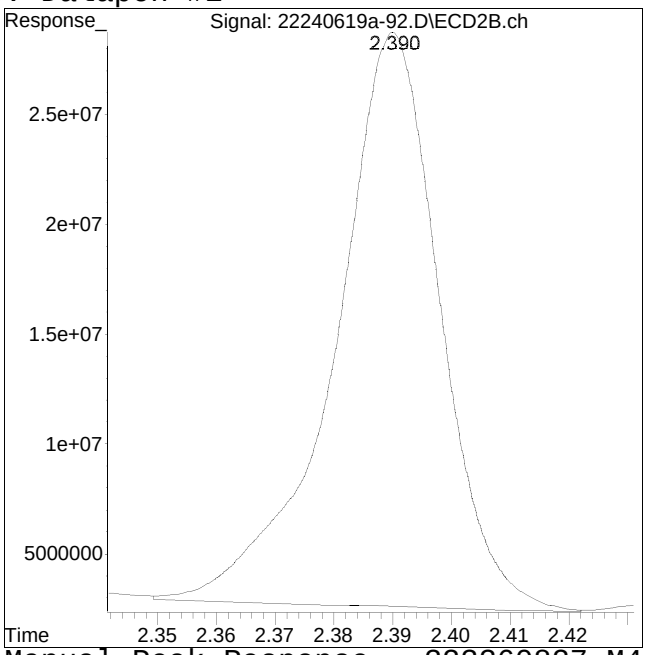
Original Peak Response = 281716351 Manual Peak Response = 267374214 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #15: Dalapon #2



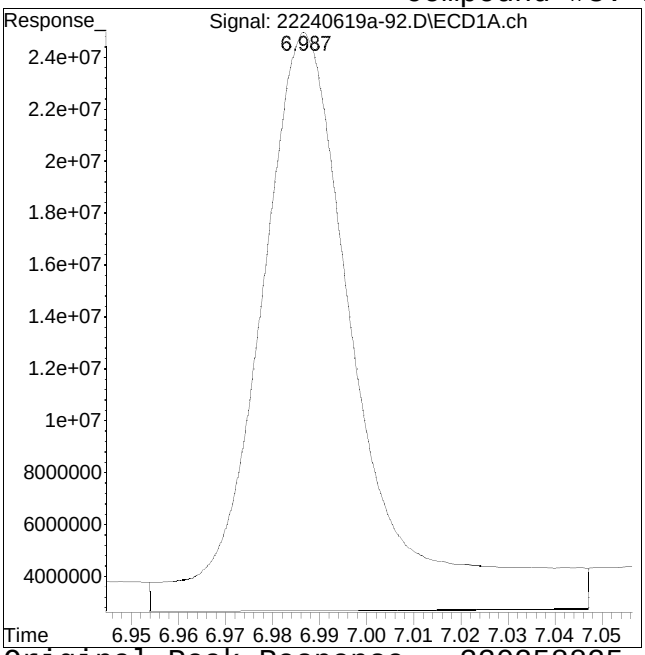


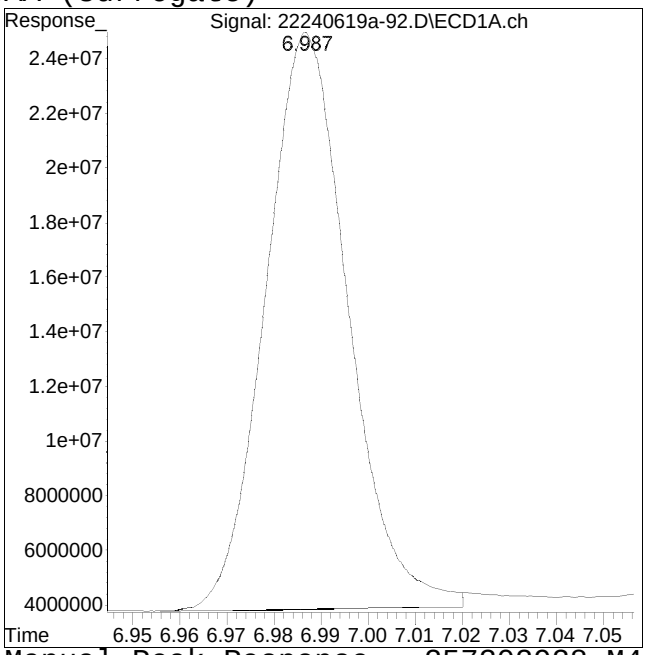
Original Peak Response = 366097194 Manual Peak Response = 323360827 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #3: DCAA (surrogate)



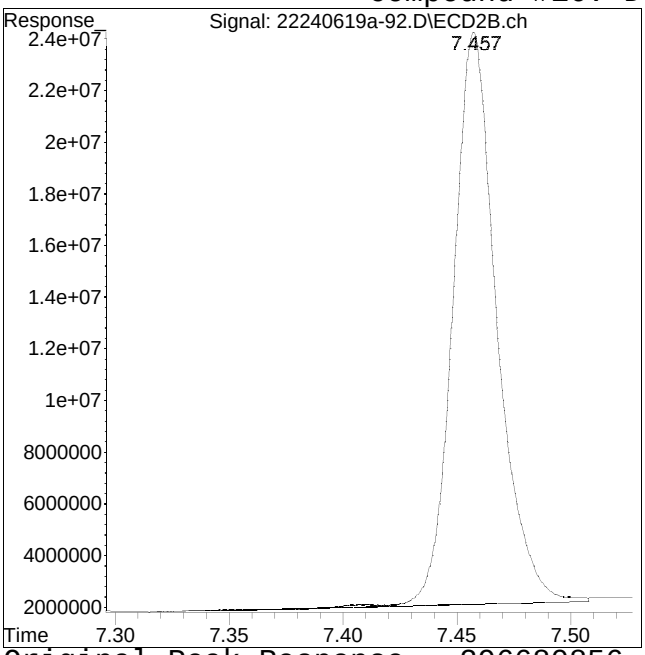


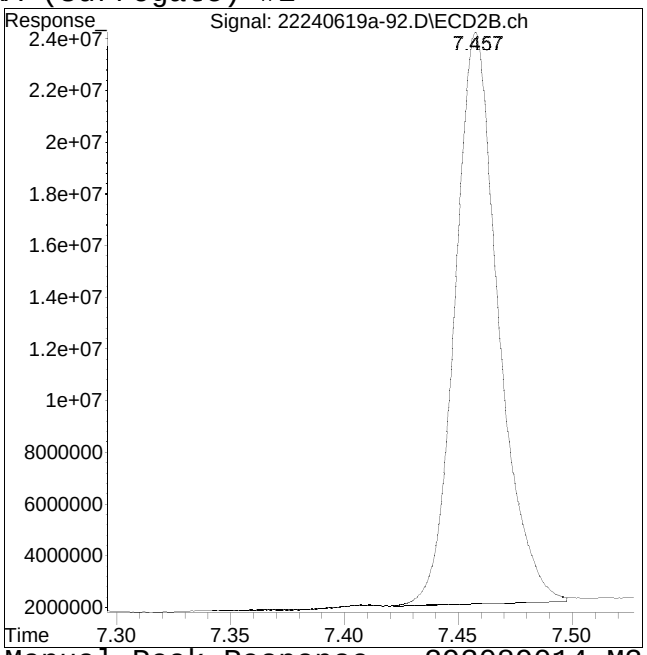
Original Peak Response = 330258825 Manual Peak Response = 257302928 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #16: DCAA (surrogate) #2



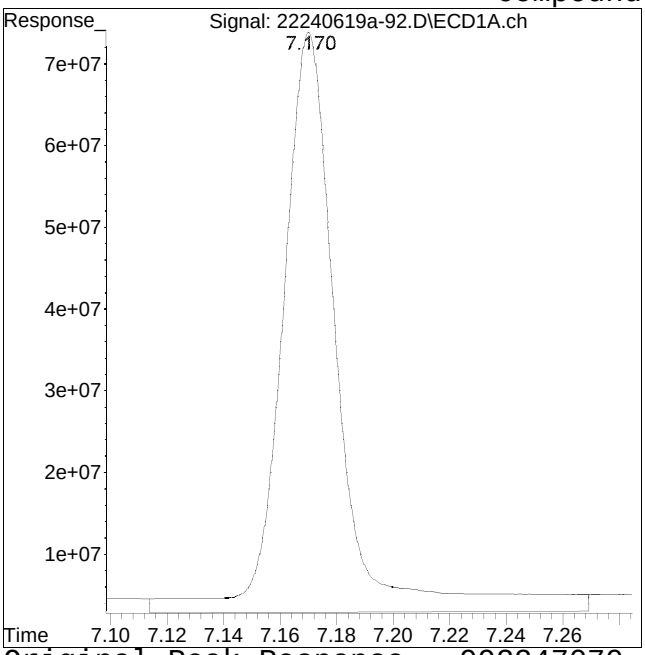


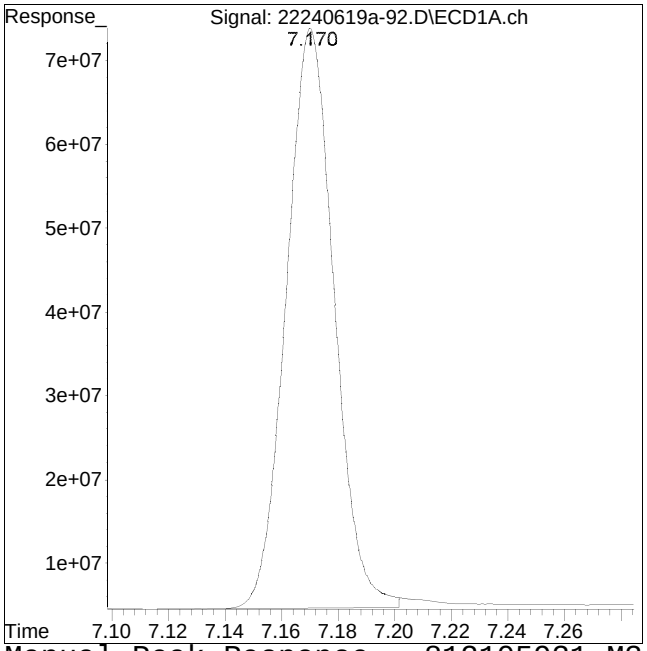
Original Peak Response = 296680856 Manual Peak Response = 293089014 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #4: Dicamba



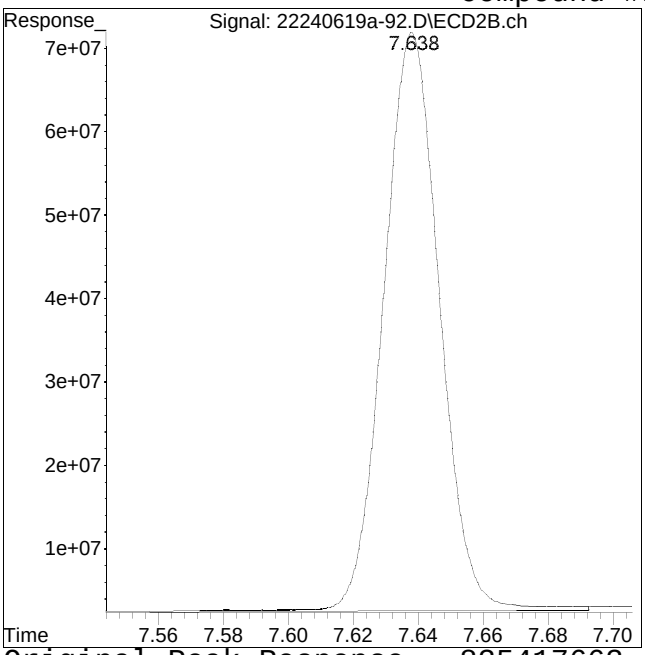


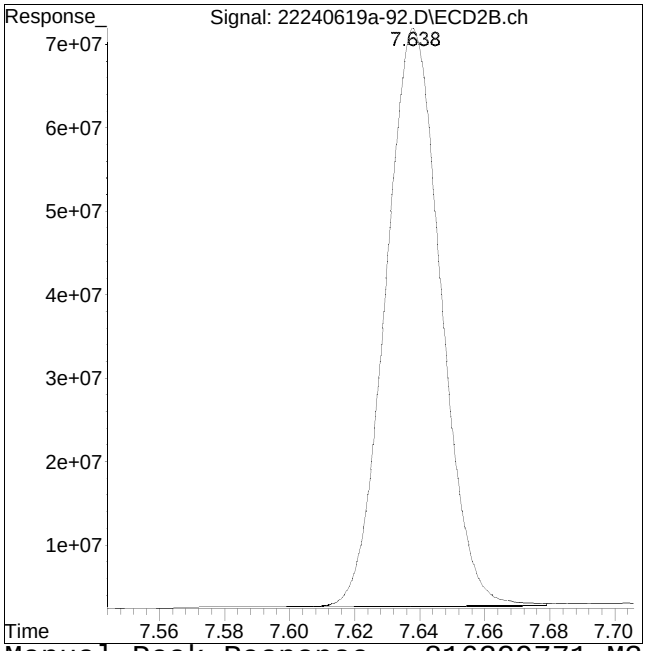
Original Peak Response = 992247070 Manual Peak Response = 812105931 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #17: Dicamba #2



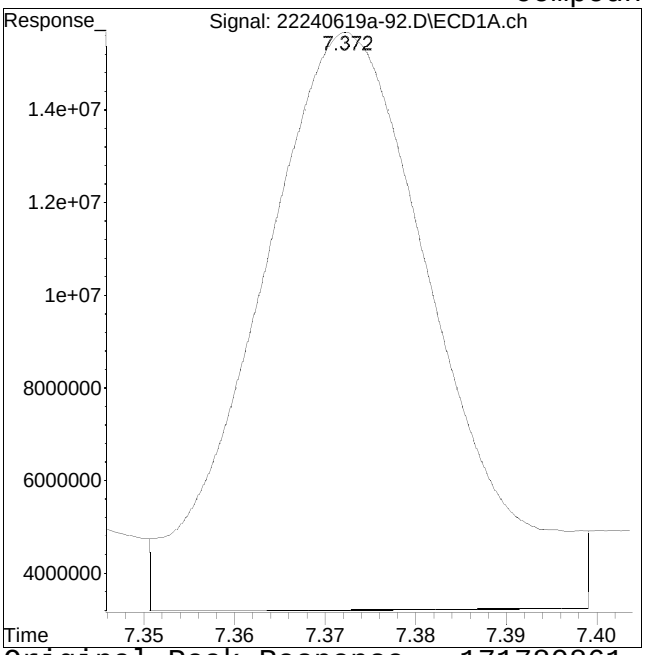


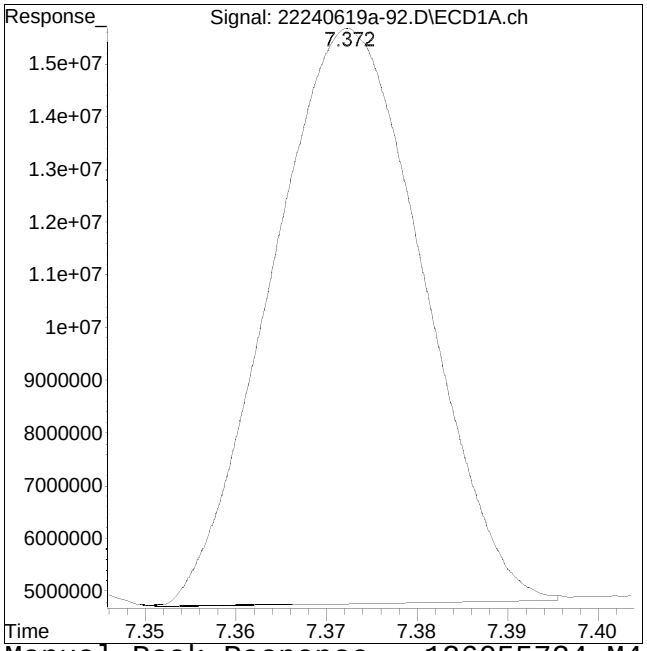
Original Peak Response = 835417663 Manual Peak Response = 816329771 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #5: MCPP



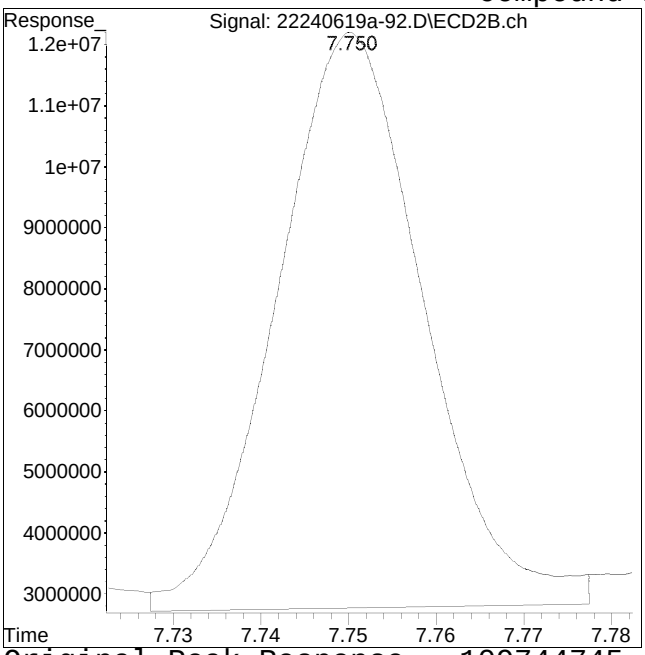


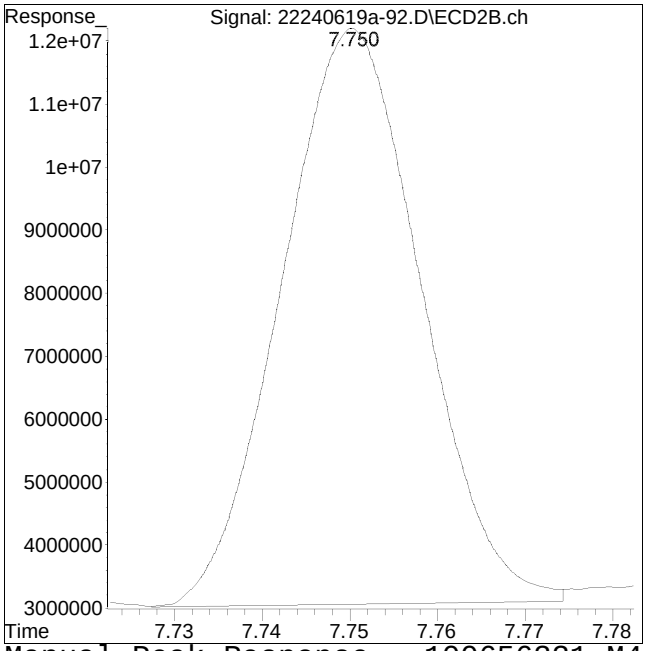
Original Peak Response = 171780861 Manual Peak Response = 126055724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #18: MCPP #2



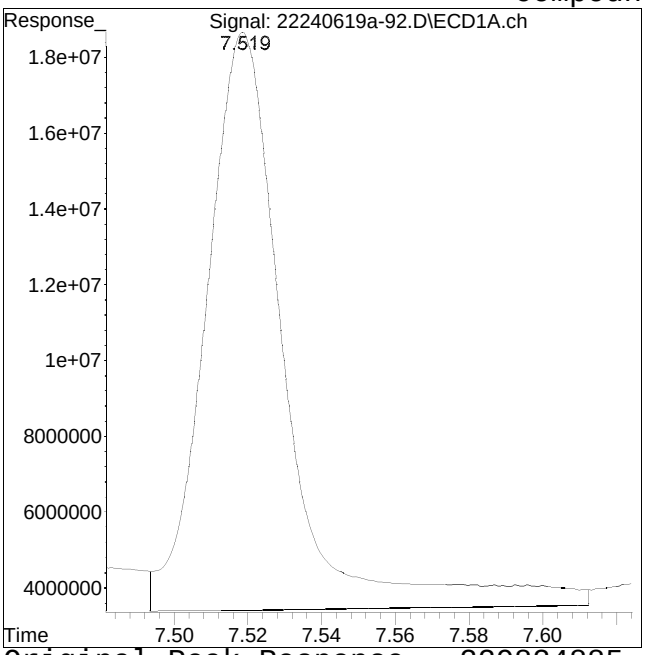


Original Peak Response = 109744745 Manual Peak Response = 100656331 M4
M4 = Poor automated baseline construction.

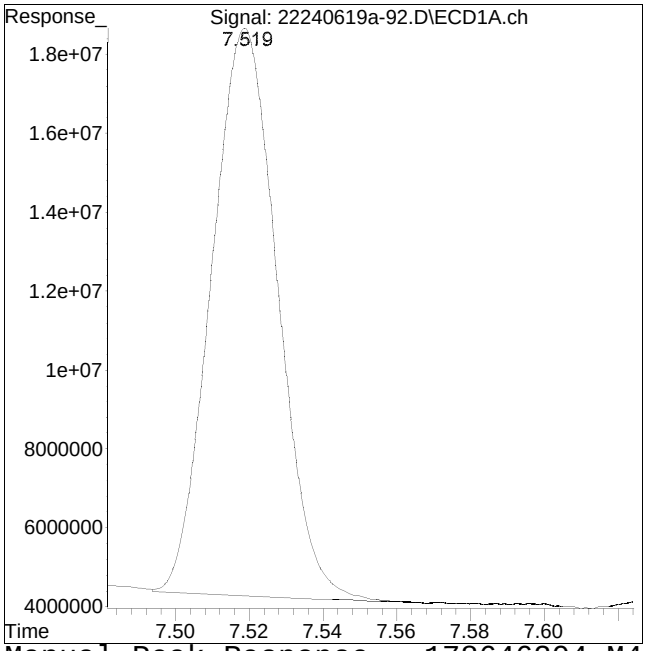
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #6: MCPA



Original Peak Response = 229824885



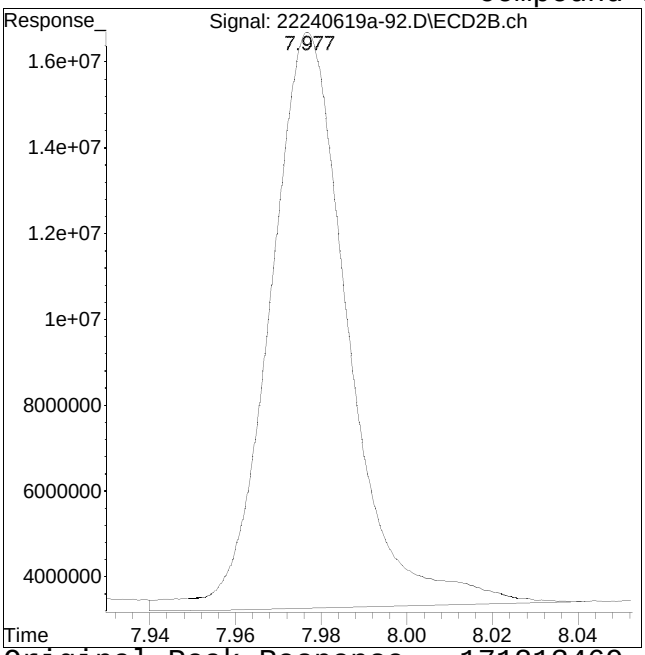
Manual Peak Response = 178646204 M4

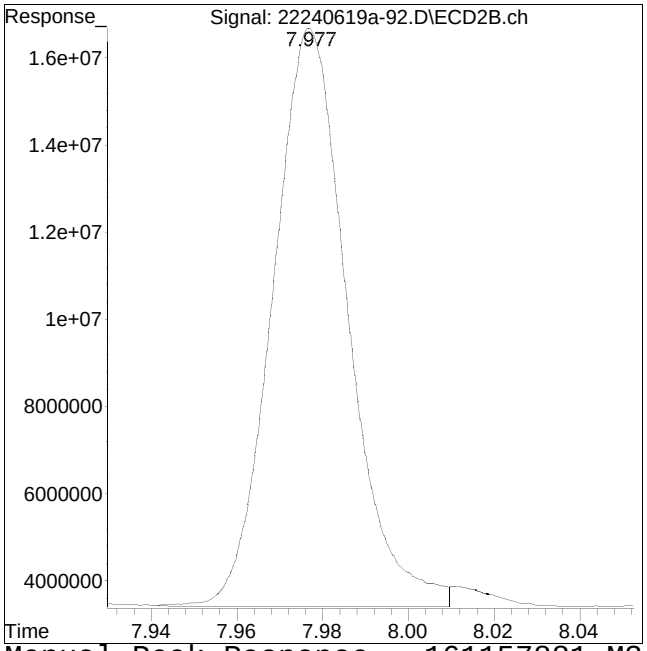
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #19: MCPA #2



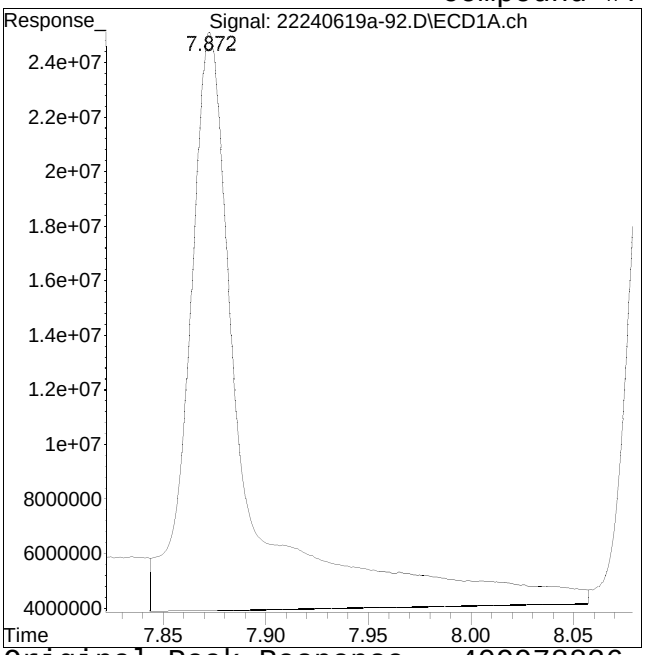


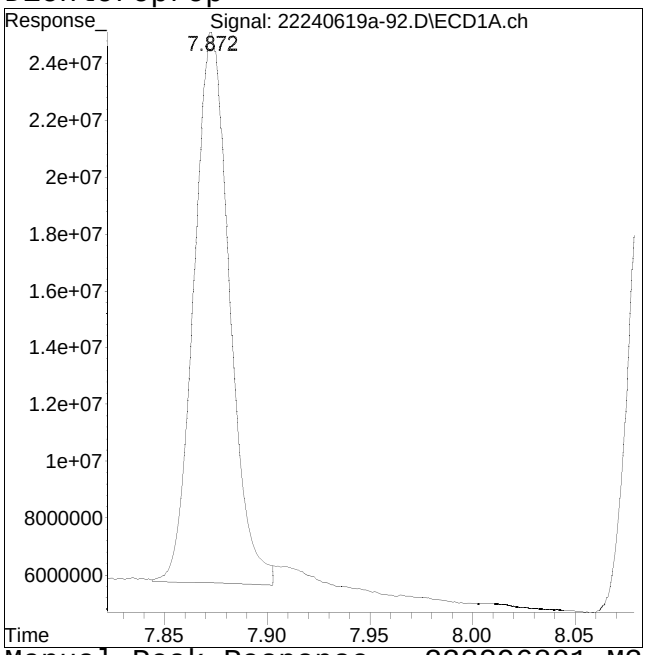
Original Peak Response = 171213469 Manual Peak Response = 161157881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #7: Dichloroprop



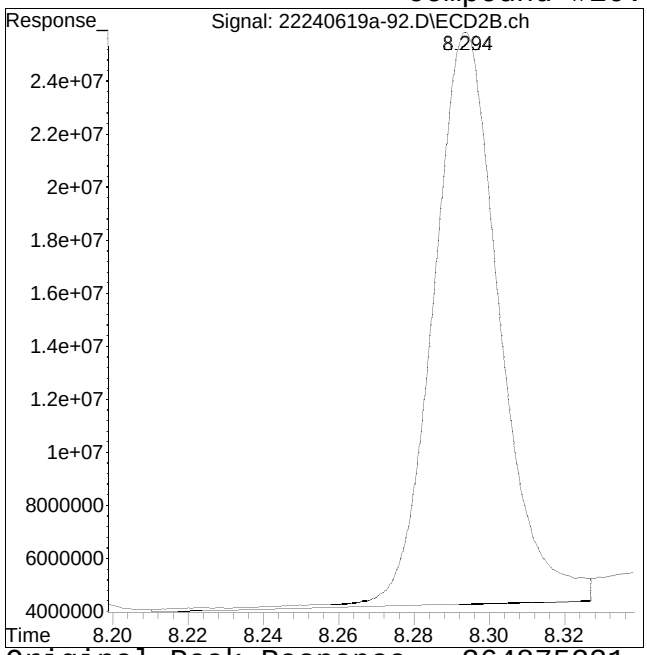


Original Peak Response = 409978836 Manual Peak Response = 233296801 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

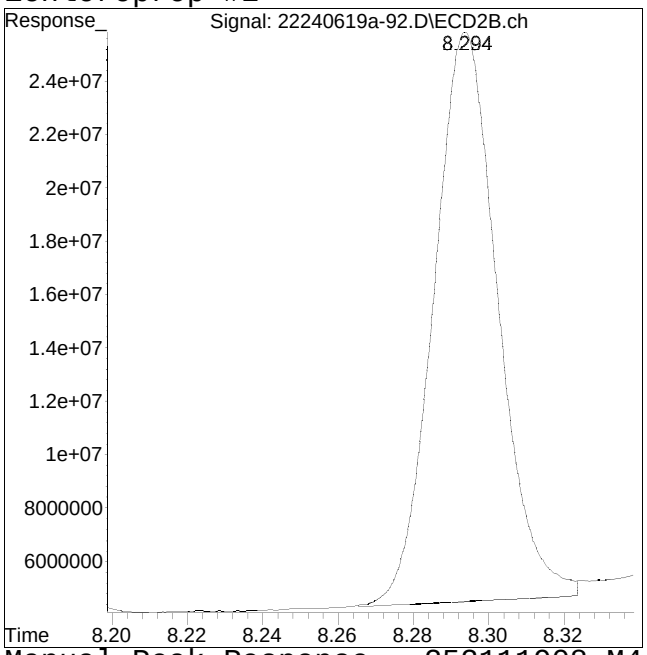
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #20: Dichloroprop #2



Original Peak Response = 264875231



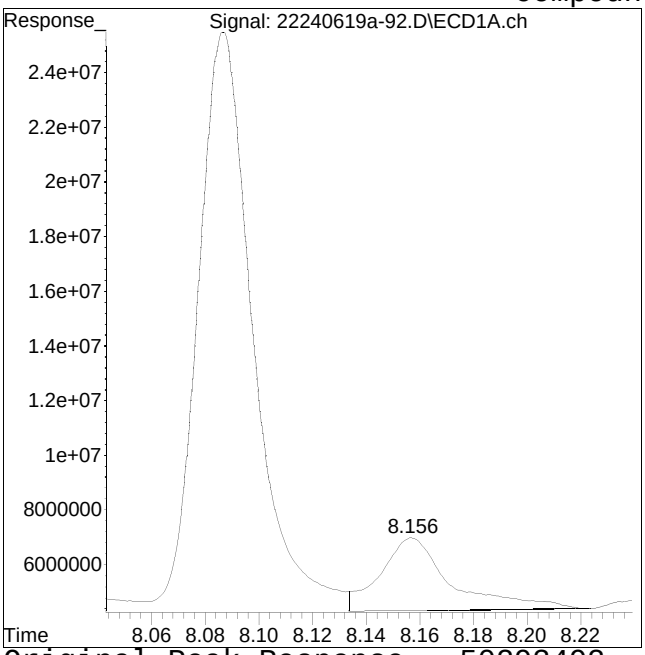
Manual Peak Response = 252111908 M4

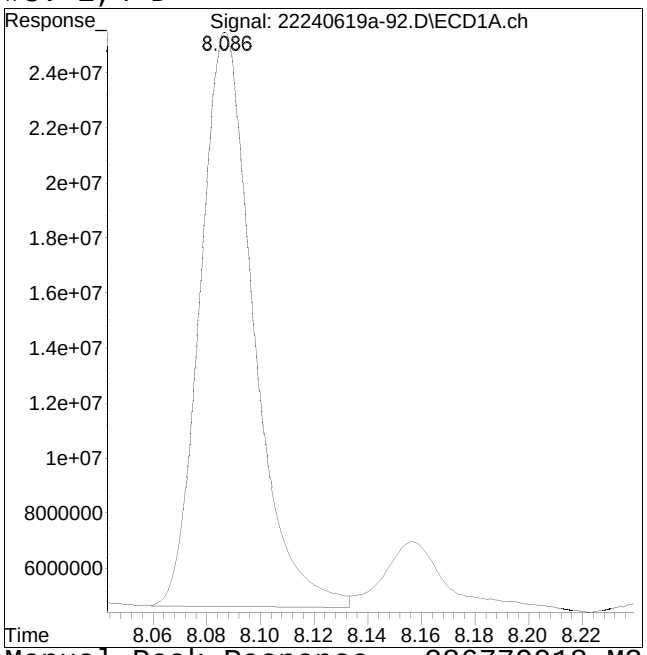
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #8: 2,4-D



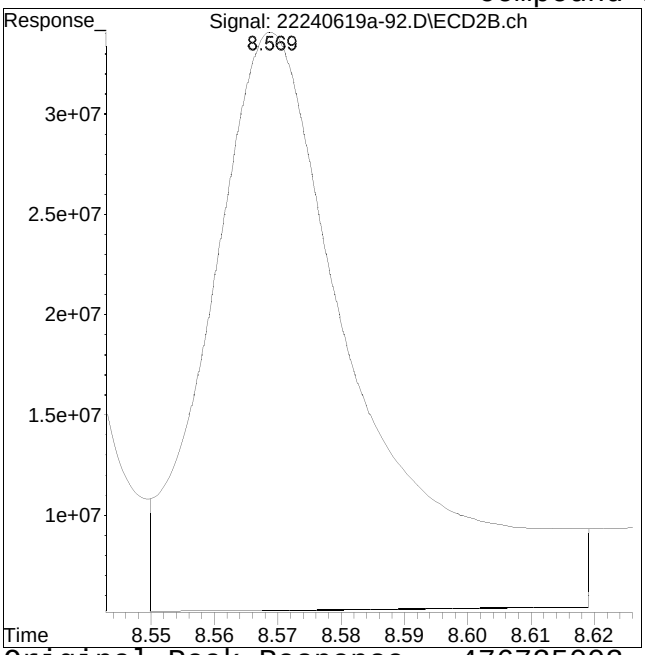


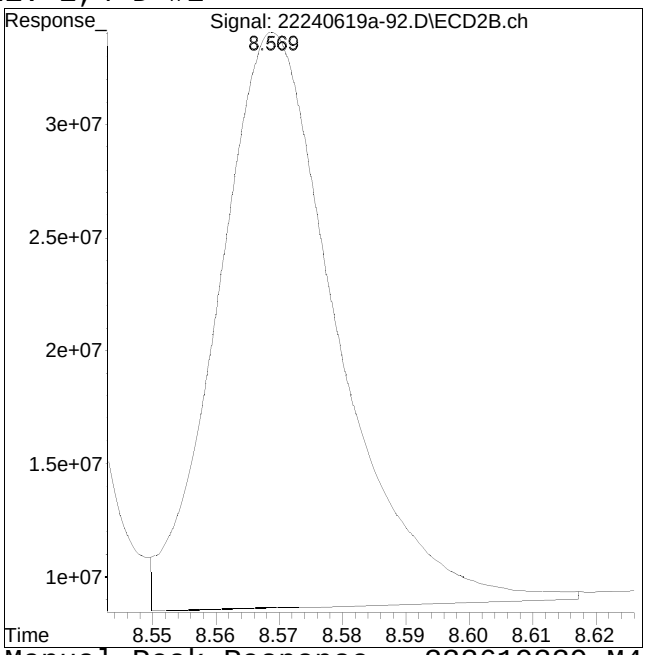
Original Peak Response = 50293492 Manual Peak Response = 286779918 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #21: 2,4-D #2



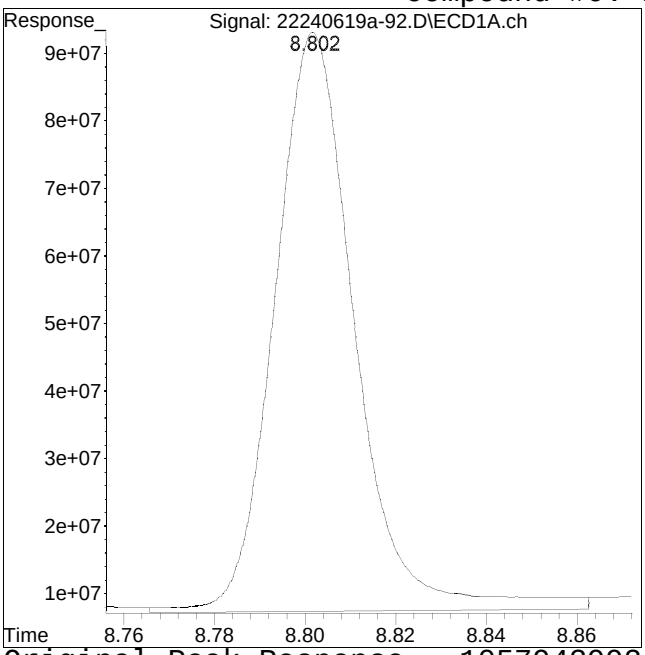


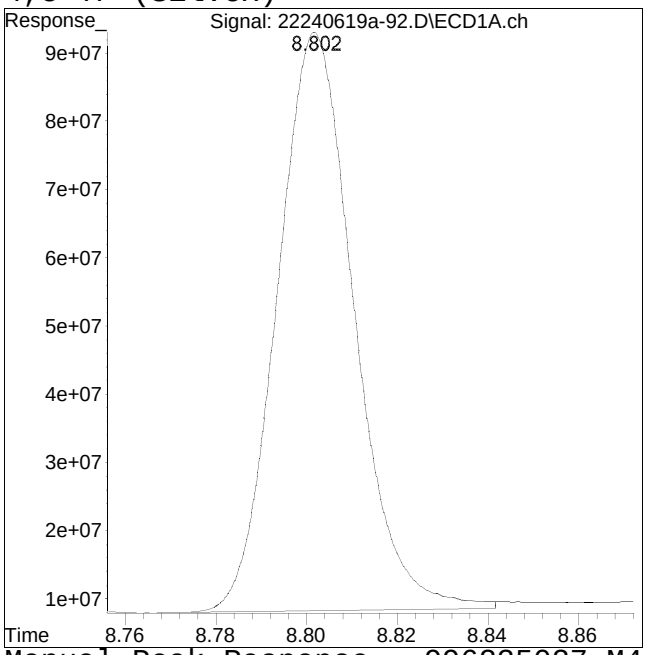
Original Peak Response = 476735003 Manual Peak Response = 332619339 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #9: 2,4,5-TP (Silvex)



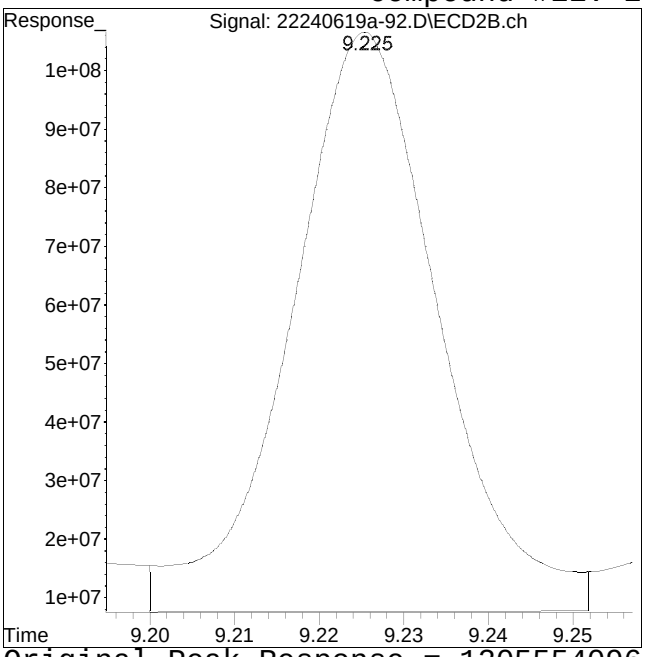


Original Peak Response = 1057943992 Manual Peak Response = 996235027 M4
M4 = Poor automated baseline construction.

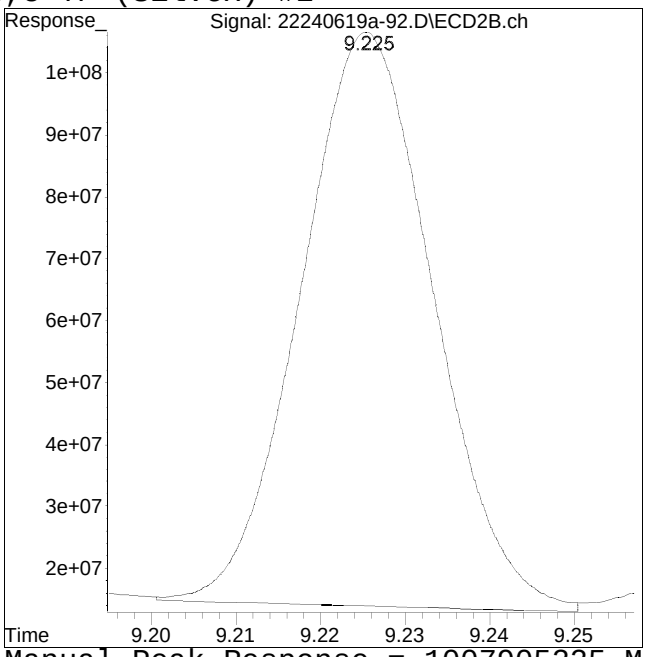
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 1205554096



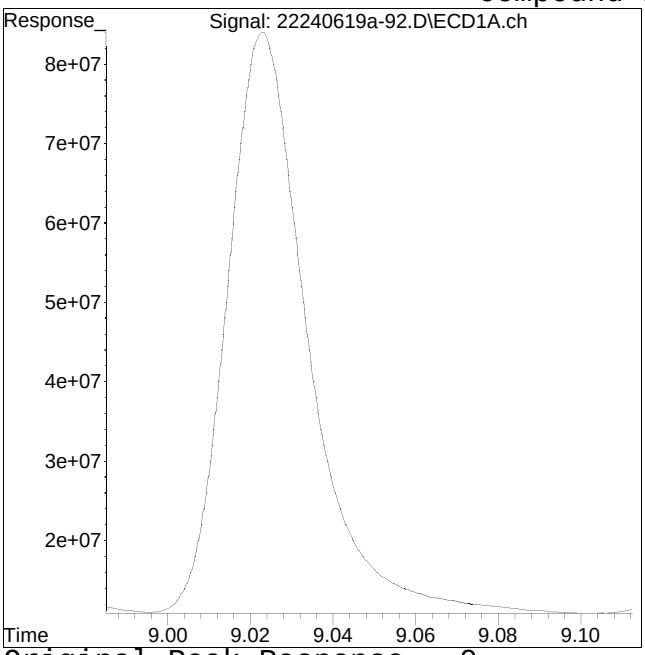
Manual Peak Response = 1007905225 M4

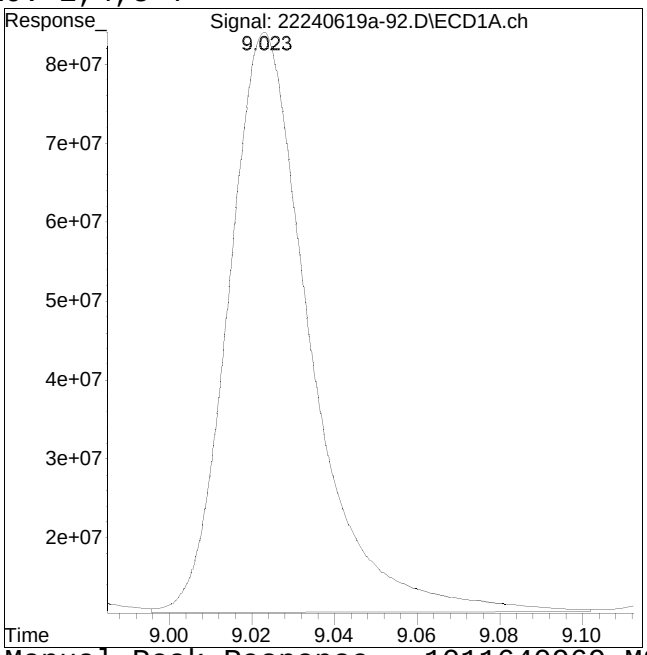
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #10: 2,4,5-T



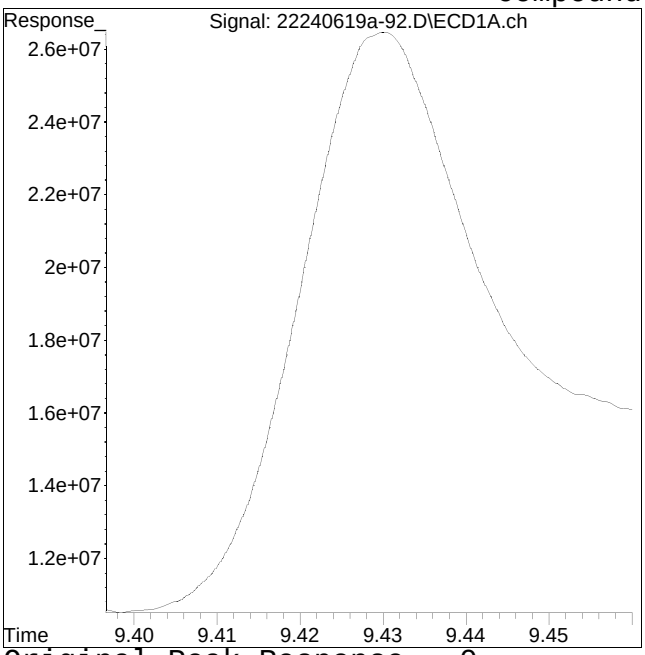


Original Peak Response = 0 Manual Peak Response = 1011640969 M2
M2 = Peak not found by automatic integration algorithm.

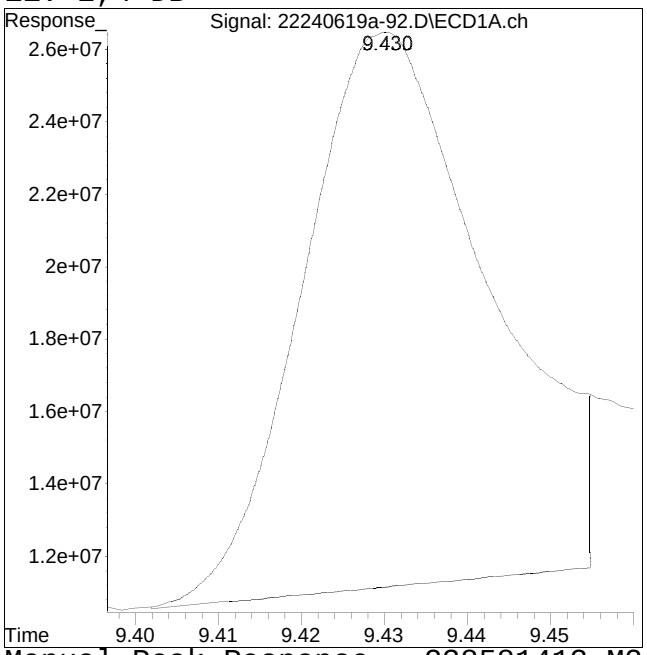
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #11: 2,4-DB



Original Peak Response = 0



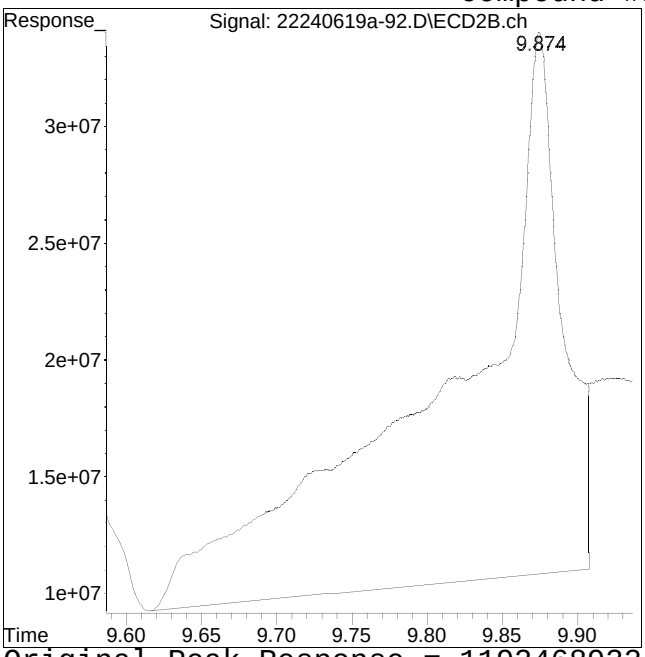
Manual Peak Response = 238581413 M2

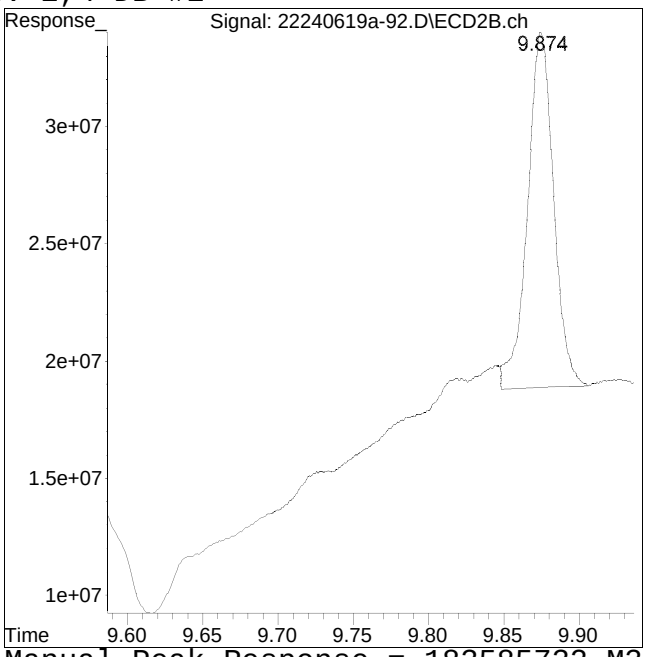
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #24: 2,4-DB #2



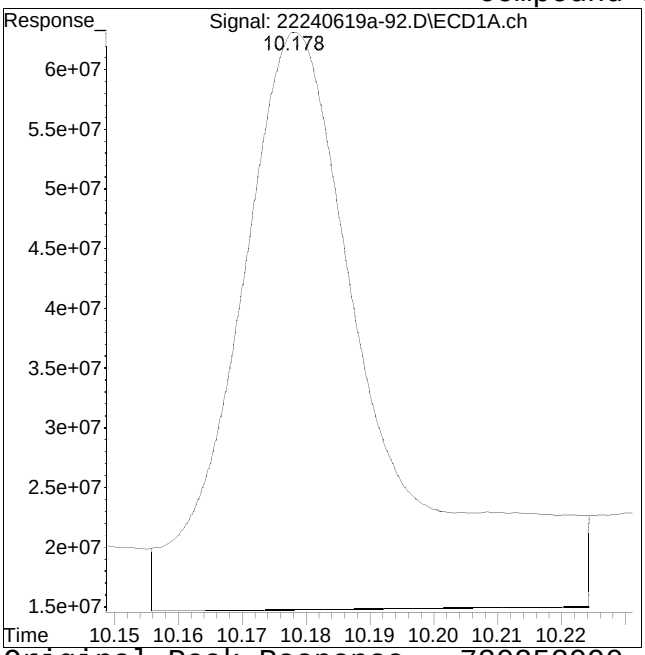


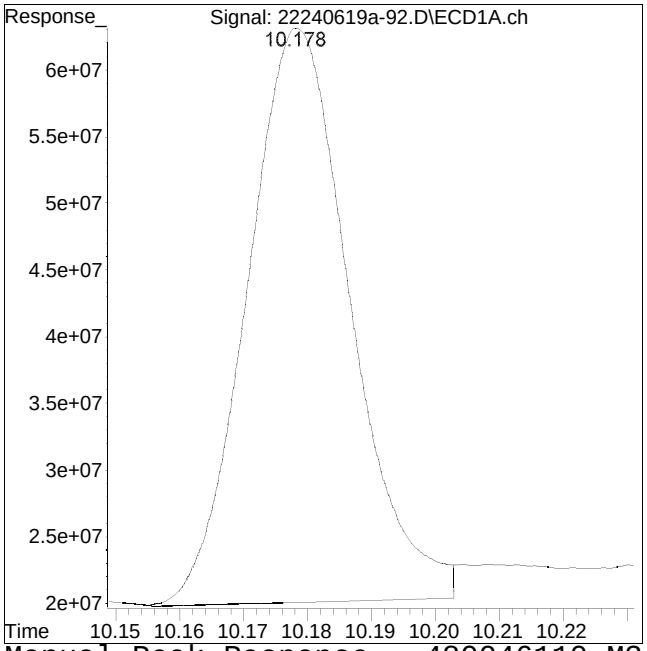
Original Peak Response = 1192468932 Manual Peak Response = 183585732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #12: Dinoseb



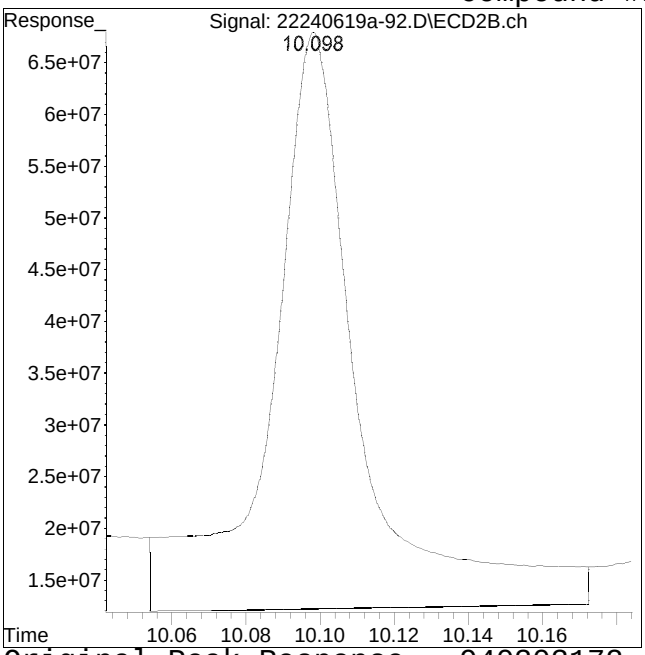


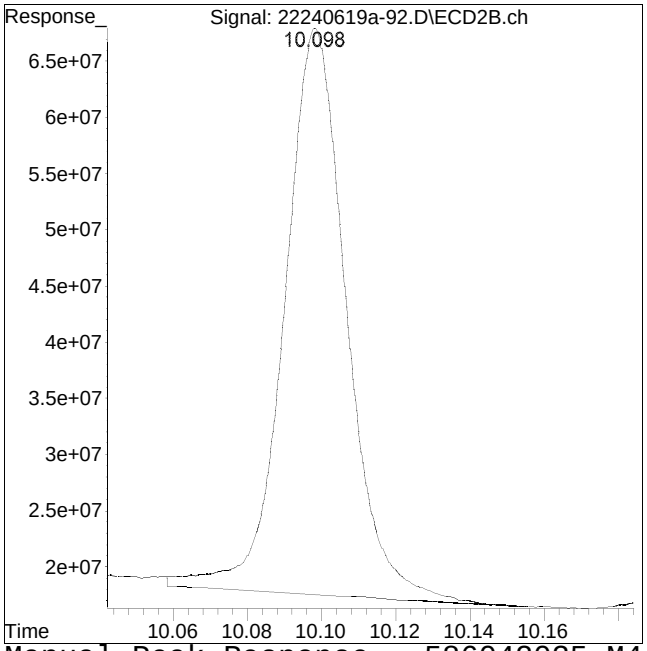
Original Peak Response = 730252990 Manual Peak Response = 480046110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-92.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:10 pm Instrument : Pest22
Sample : WG1936519-2,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #25: Dinoseb #2





Original Peak Response = 940303172 Manual Peak Response = 586042035 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:40 pm
Operator : pest22:EJL
Sample : WG1935934-3,42,, 934 (Sig #1); WG1935965-3,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.531	8.526	784.3E6	807.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 883326324				Recovery =	88.79%	
	Standard Area 1 : #2 = 891276115				Recovery =	90.56%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.987	7.456	311.5E6	346.5E6	0.483M4	0.530M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	96.60%	106.00%
	Target Compounds						
2) t	Dalapon	2.391	2.388	271.9E6	309.6E6	0.410M4	0.486M4
4) t	Dicamba	7.169	7.637	884.2E6	893.1E6	0.478M3	0.466M3
5) t	MCPP	7.371	7.749	130.5E6	103.8E6	79.820M4	43.680M4
6) t	MCPA	7.517	7.976	191.9E6	178.9E6	63.280M4	44.693M4
7) t	Dichloroprop	7.873	8.293	279.6E6	290.0E6	0.462M3	0.468M4
8) t	2,4-D	8.092f	8.569f	347.4E6	409.4E6	0.461M3	0.534
9) t	2,4,5-TP (Si	8.804f	9.225	1269.6E6	1288.1E6	0.466M4	0.466M4
10) t	2,4,5-T	9.027f	9.515f	1359.9E6	1352.2E6	0.508M2	0.504M4
11) t	2,4-DB	9.433f	9.875f	219.5E6	221.8E6	0.530M2	0.488M3
12) t	Dinoseb	10.178	10.098	808.9E6	732.6E6	0.523M2	0.462M3
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:40 pm
Operator : pest22:EJL
Sample : WG1935934-3,42,, 934 (Sig #1); WG1935965-3,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

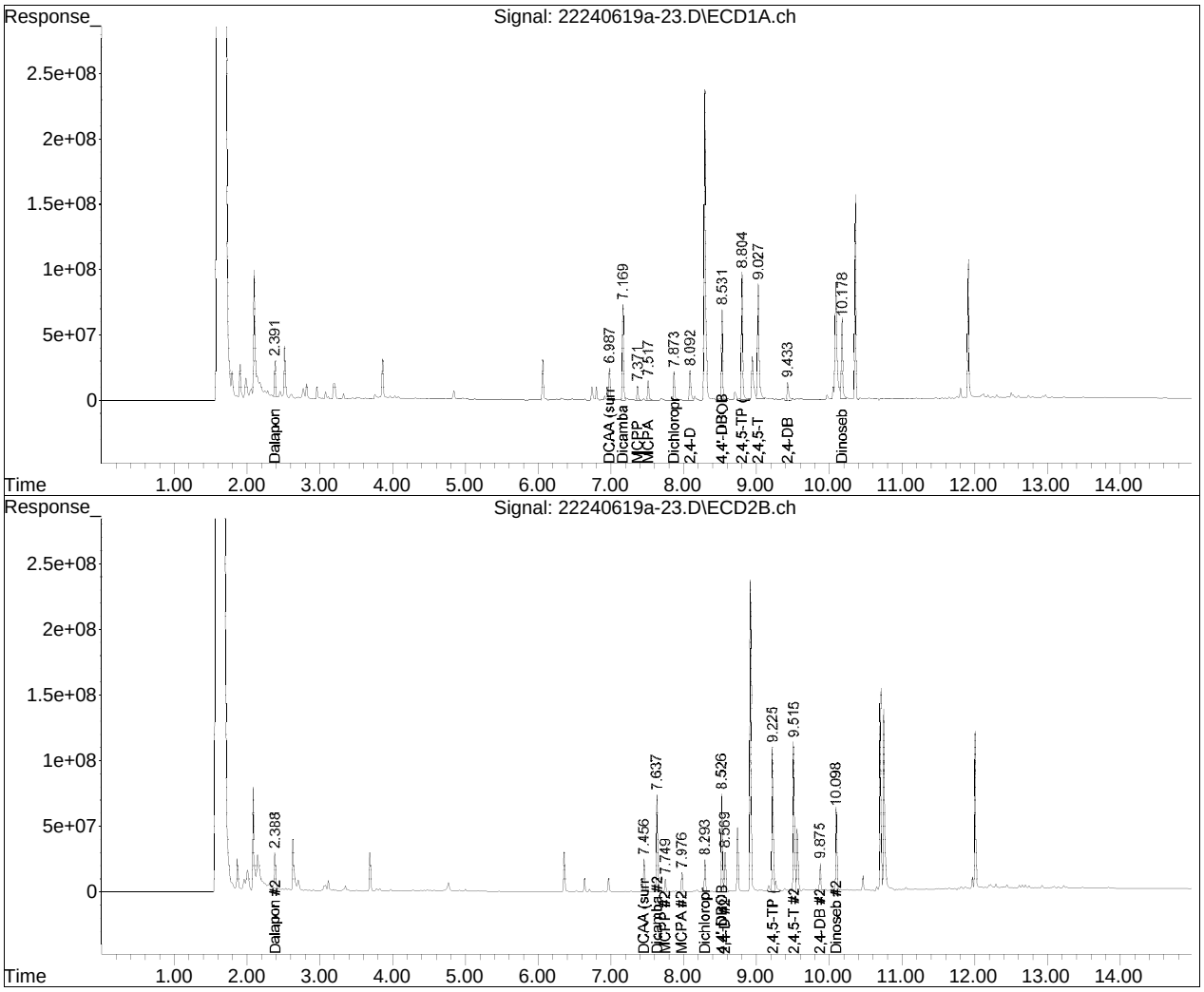
Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:40 pm
Operator : pest22:EJL
Sample : WG1935934-3,42,, 934 (Sig #1); WG1935965-3,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

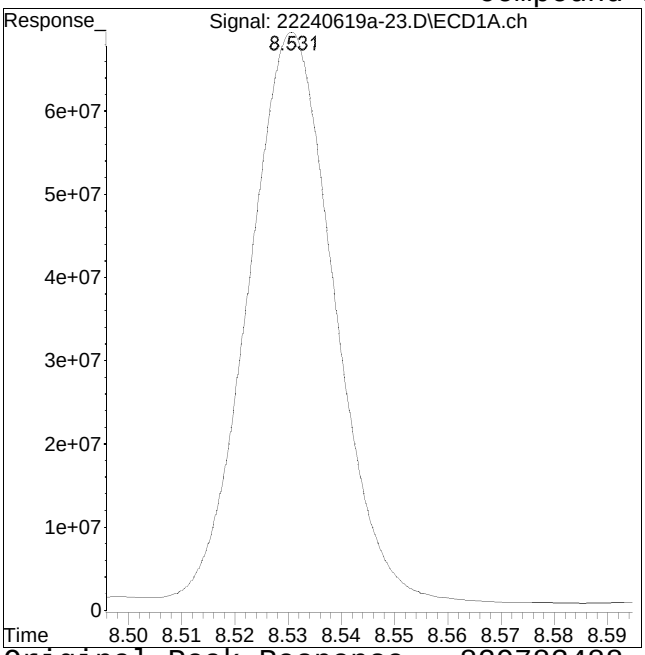
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

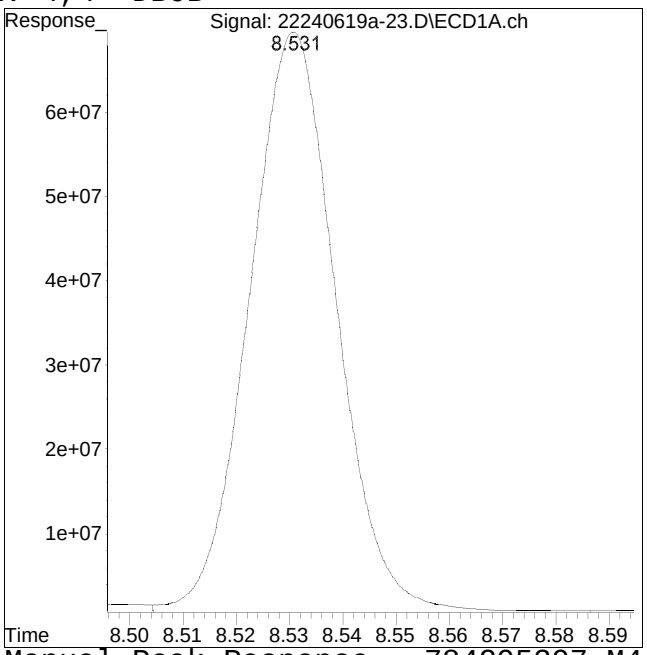


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #1: 4,4'-DBOB



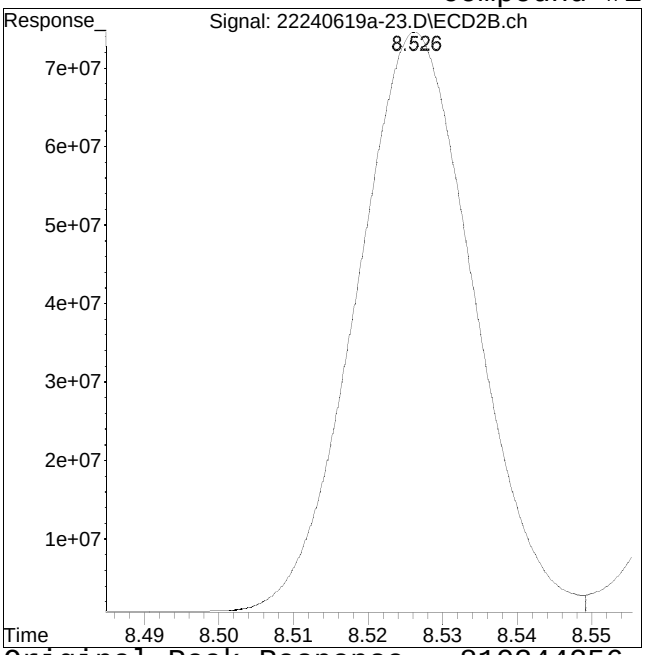


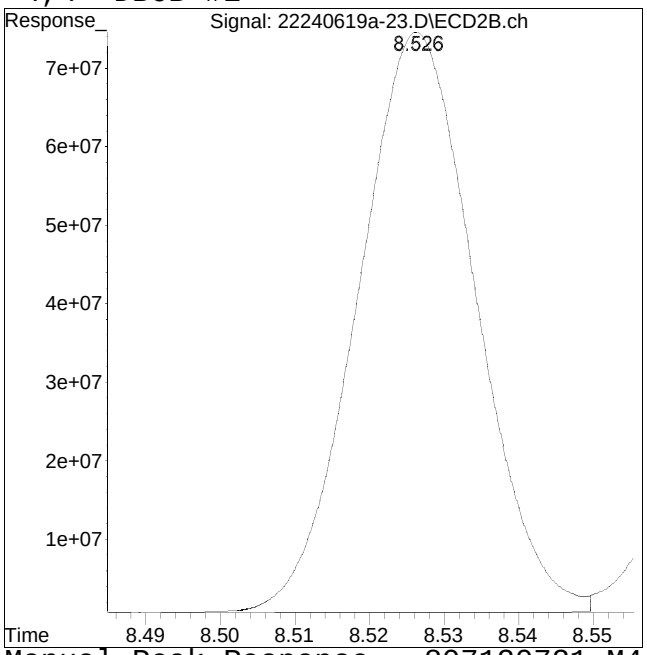
Original Peak Response = 829783488 Manual Peak Response = 784295397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #14: 4,4'-DBOB #2



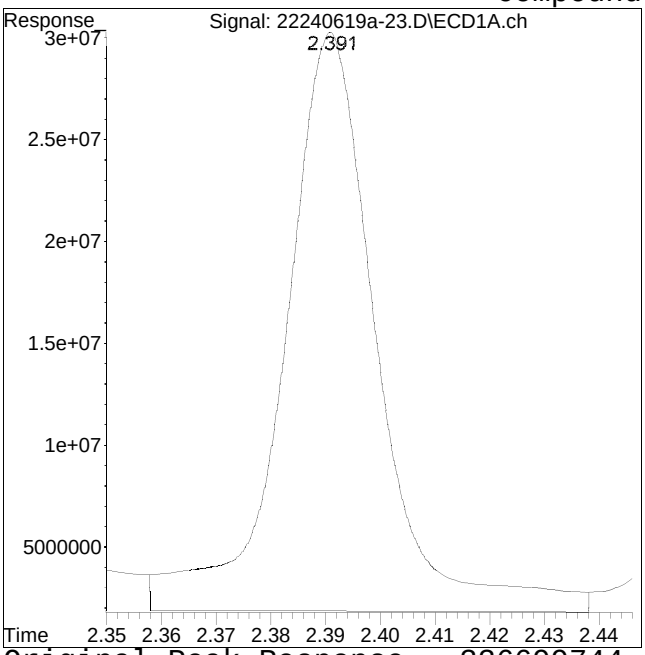


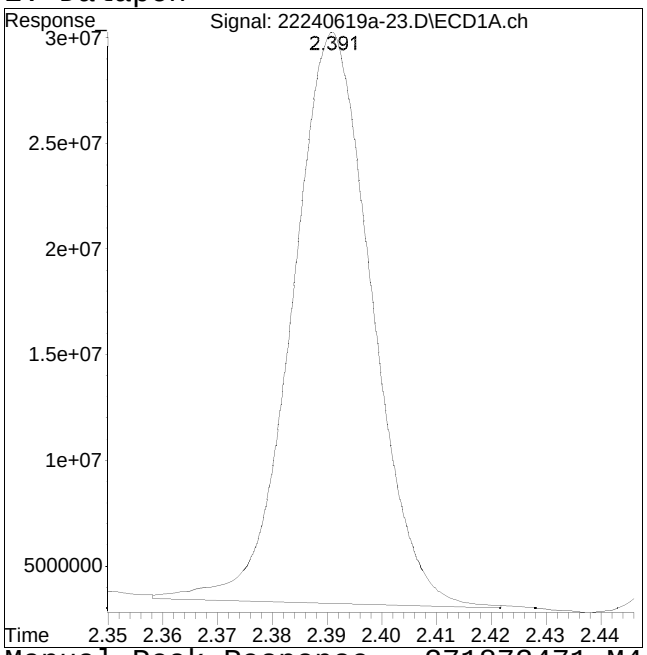
Original Peak Response = 810344256 Manual Peak Response = 807120721 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #2: Dalapon



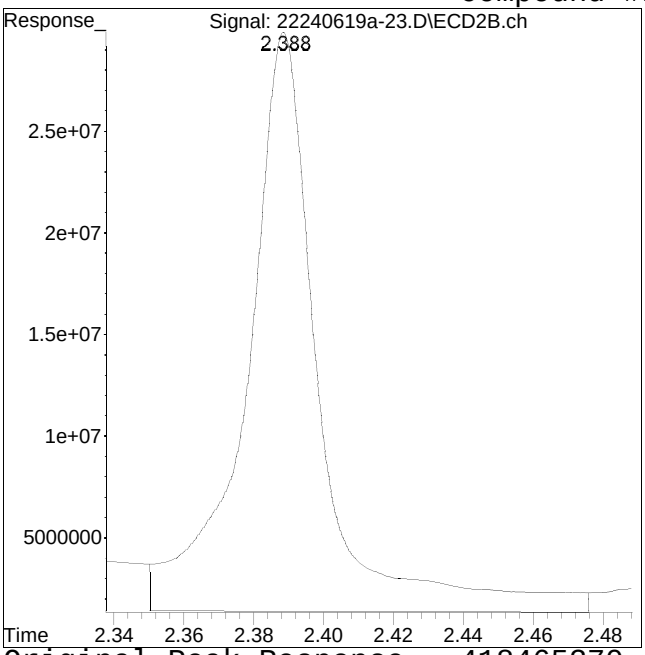


Original Peak Response = 336699744 Manual Peak Response = 271873471 M4
M4 = Poor automated baseline construction.

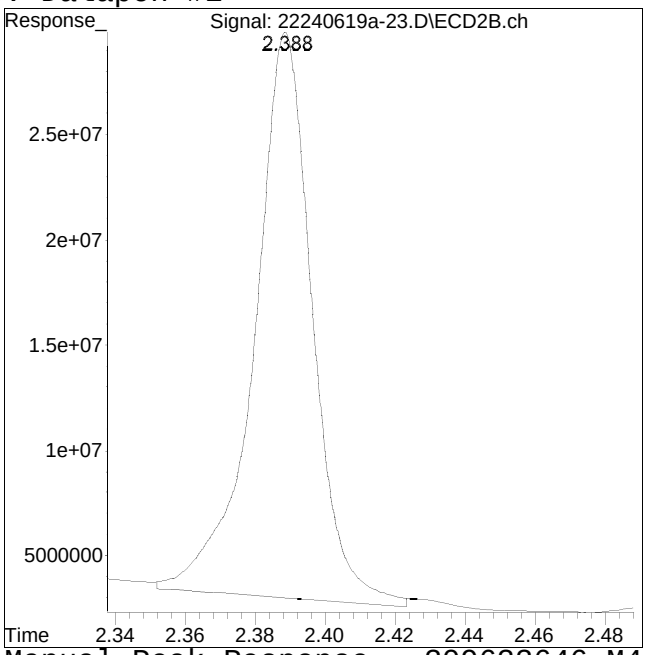
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #15: Dalapon #2



Original Peak Response = 418465370



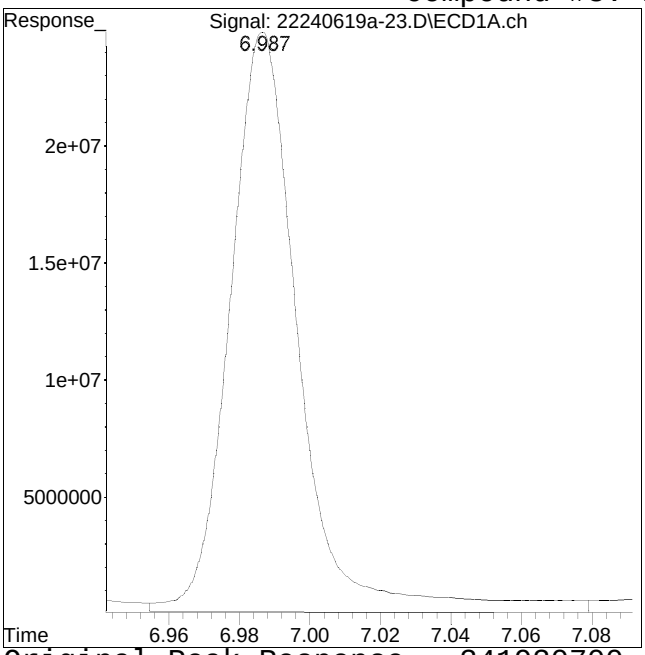
Manual Peak Response = 309633646 M4

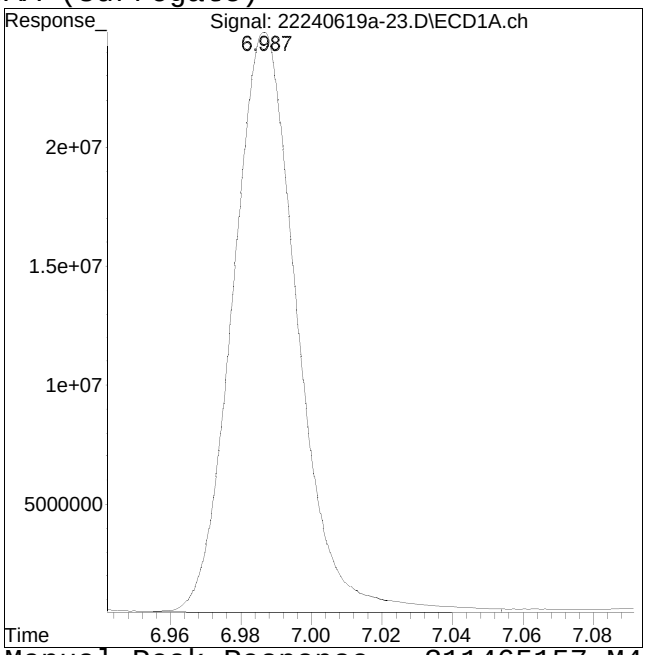
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #3: DCAA (surrogate)



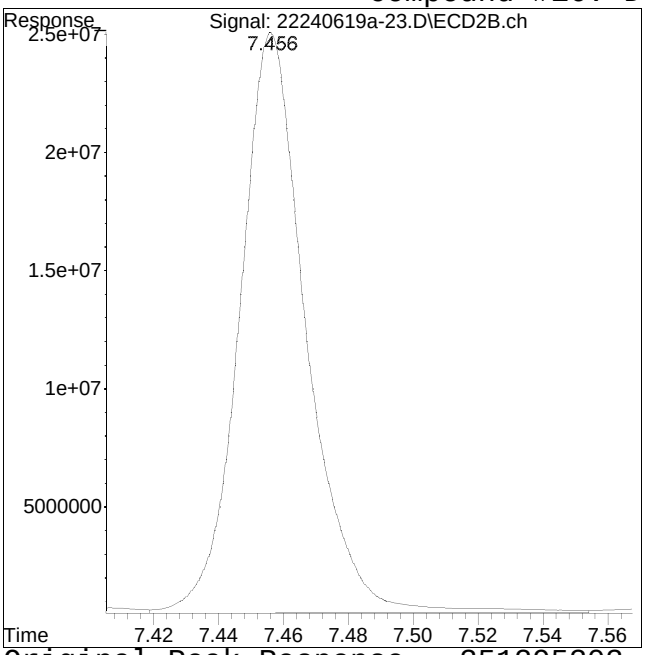


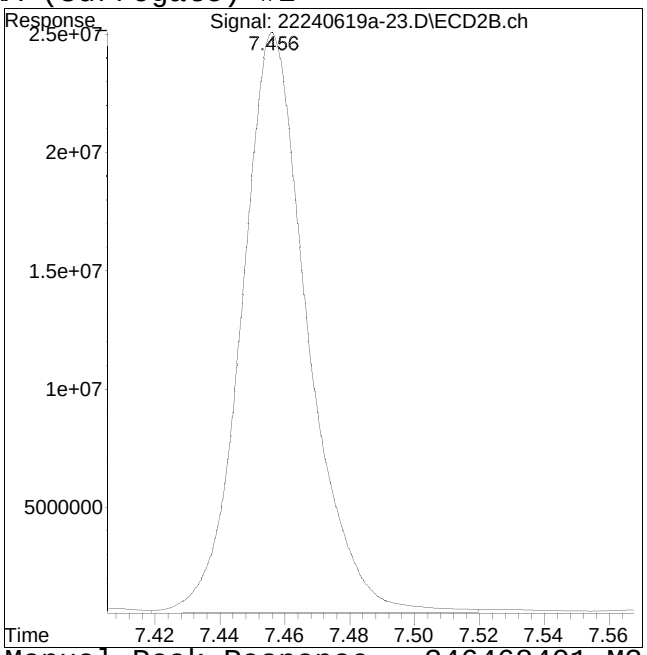
Original Peak Response = 341930700 Manual Peak Response = 311465157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #16: DCAA (surrogate) #2



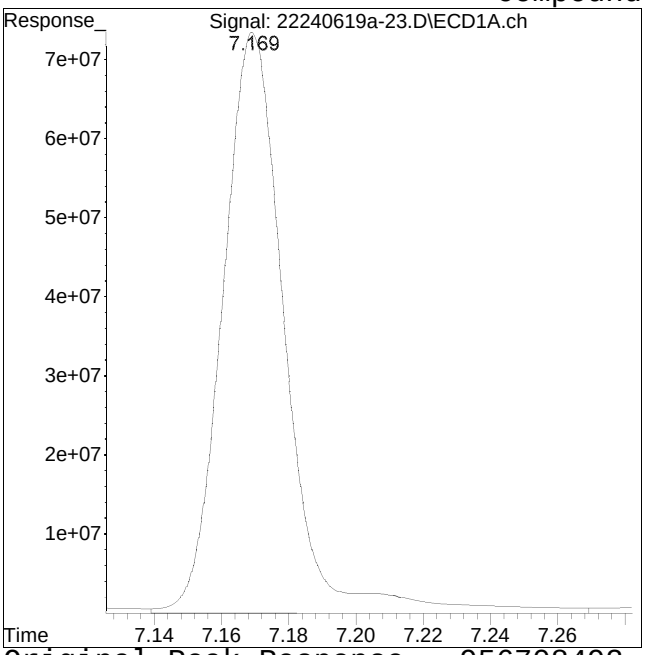


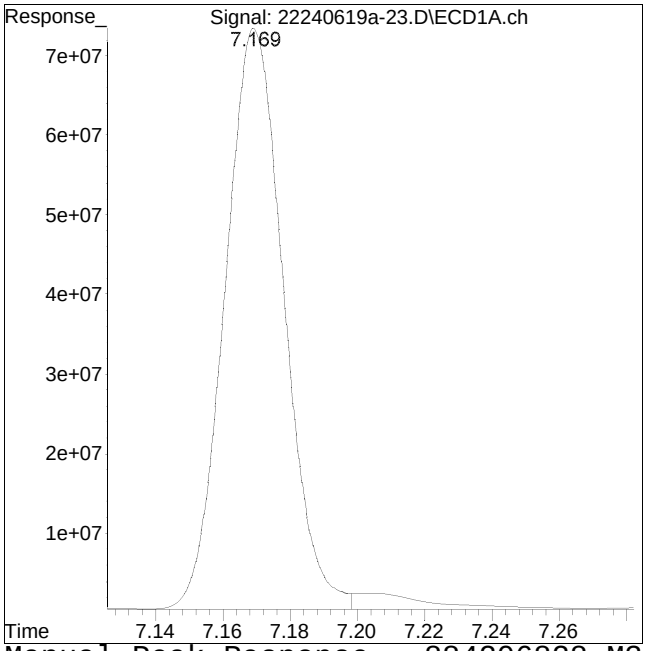
Original Peak Response = 351295303 Manual Peak Response = 346468401 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #4: Dicamba



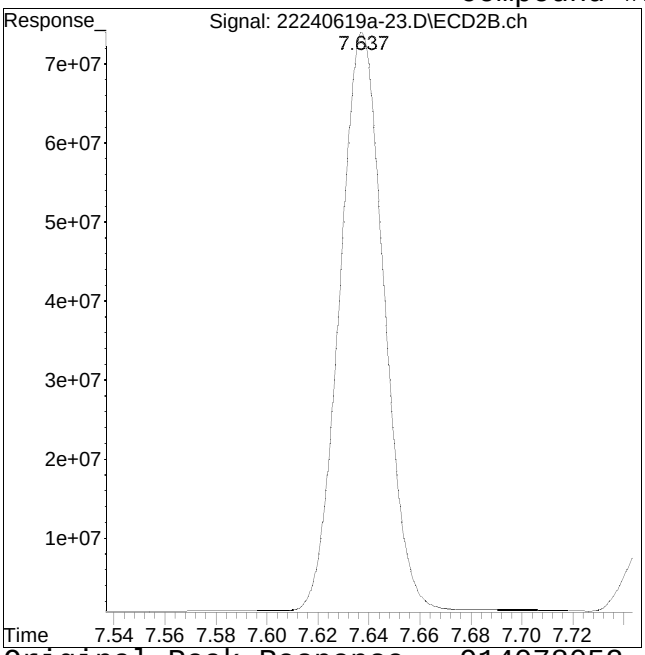


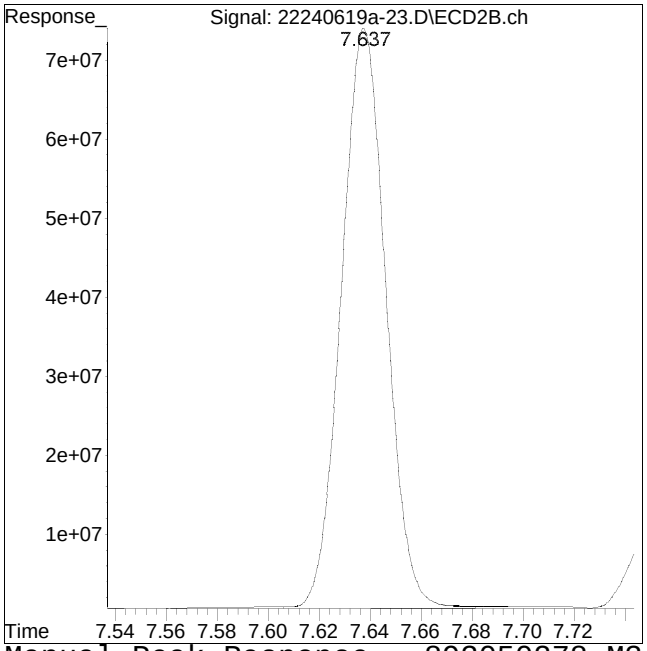
Original Peak Response = 956708492 Manual Peak Response = 884206828 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #17: Dicamba #2



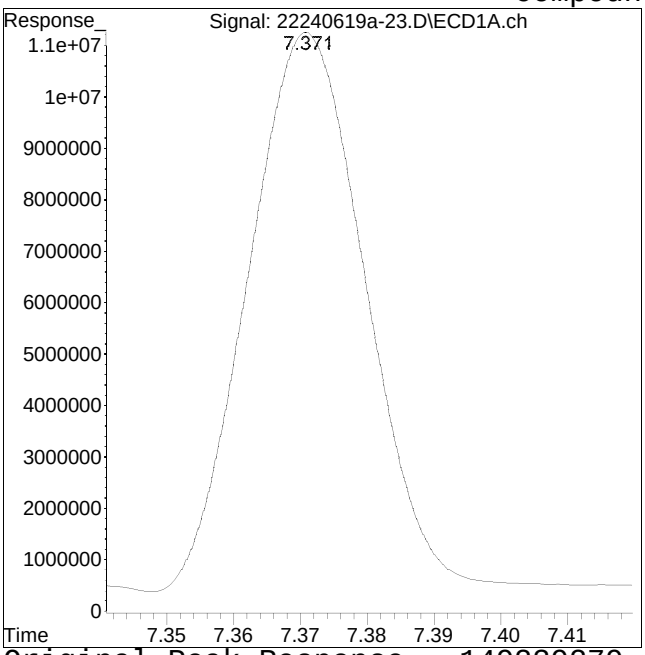


Original Peak Response = 914078052 Manual Peak Response = 893050278 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

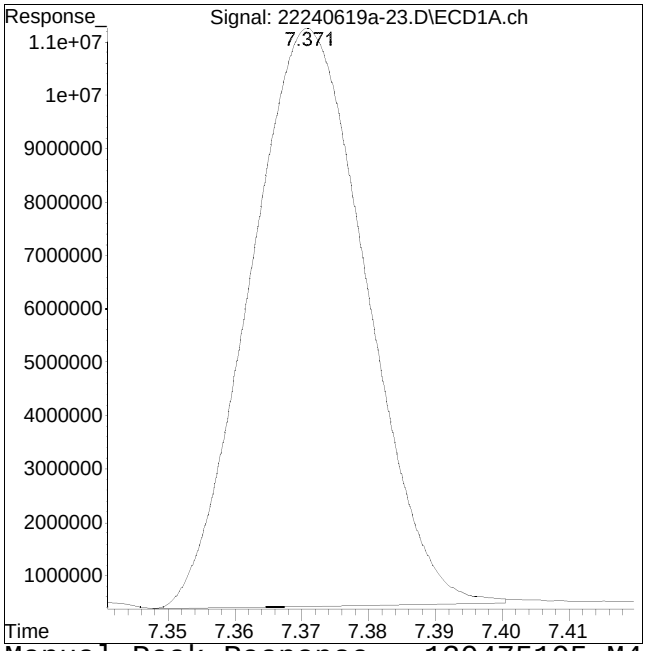
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #5: MCPP



Original Peak Response = 149239279



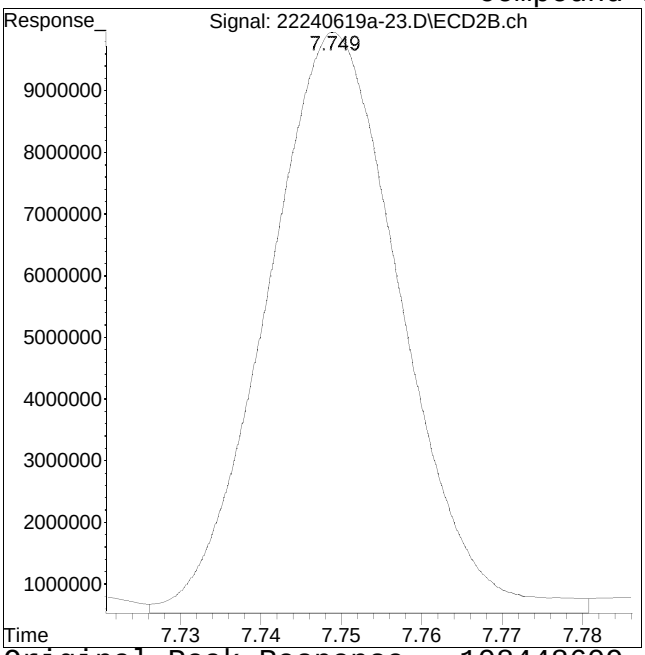
Manual Peak Response = 130475195 M4

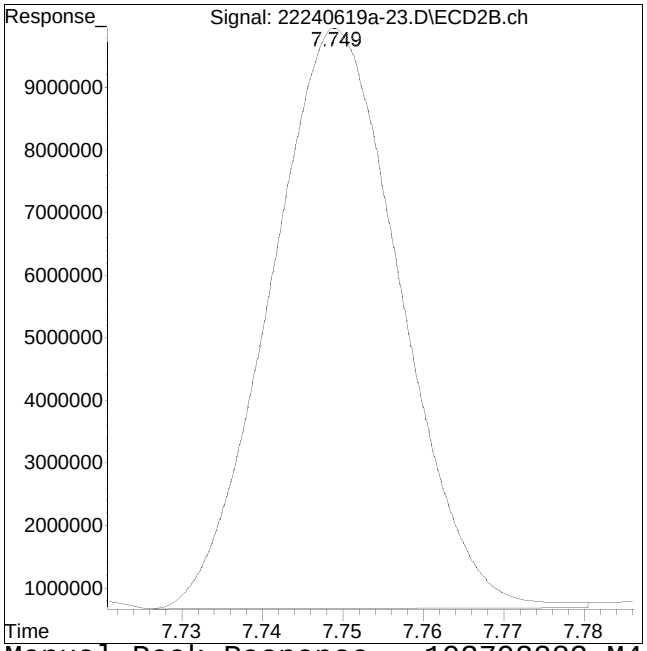
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #18: MCPP #2



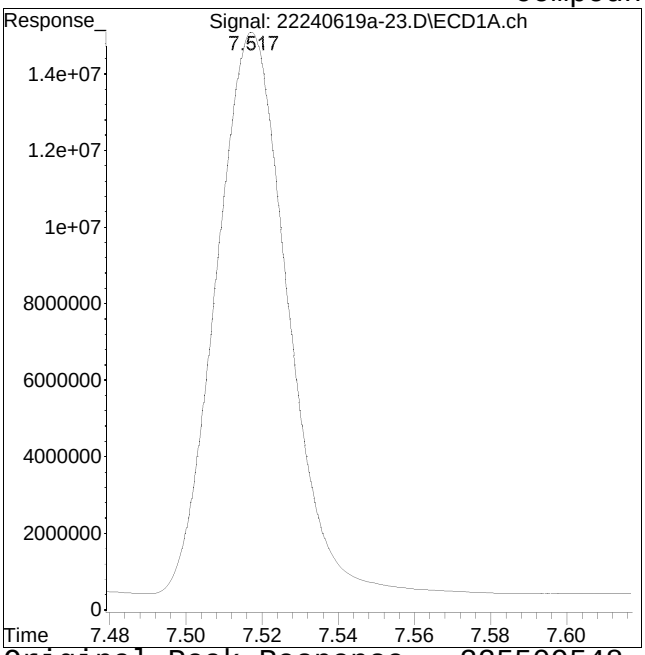


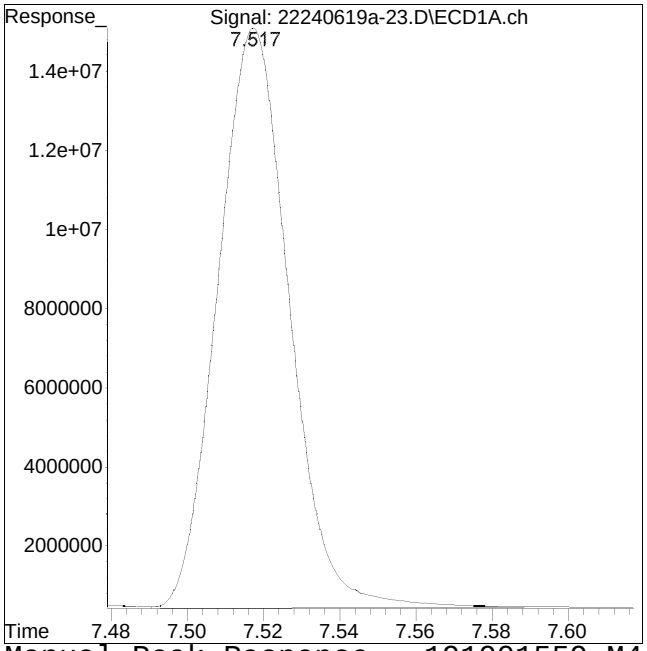
Original Peak Response = 108448609 Manual Peak Response = 103792283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #6: MCPA



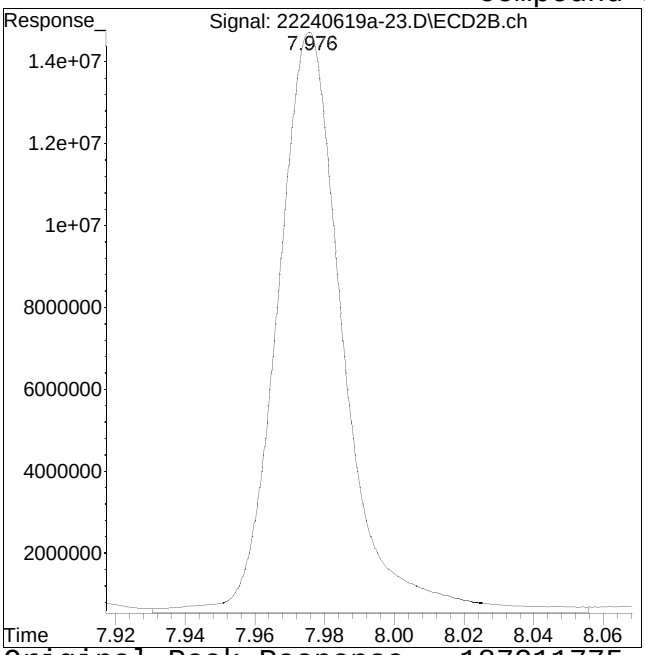


Original Peak Response = 225509548 Manual Peak Response = 191901559 M4
M4 = Poor automated baseline construction.

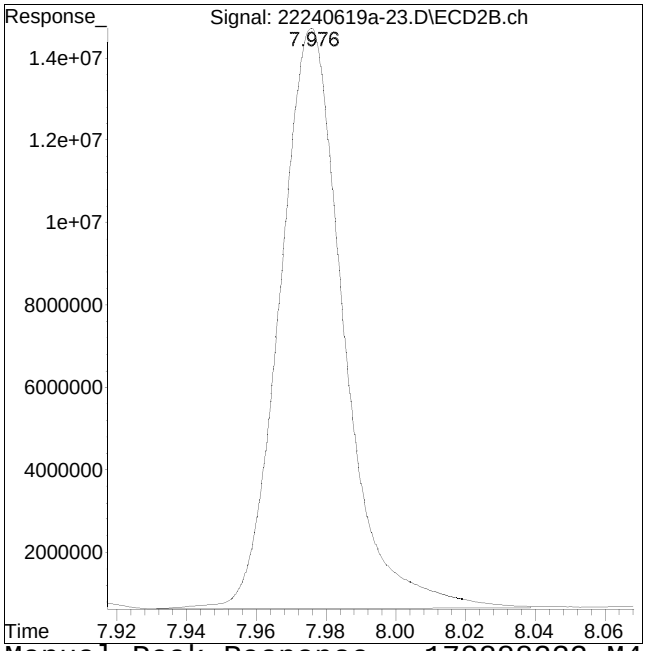
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #19: MCPA #2



Original Peak Response = 187211775

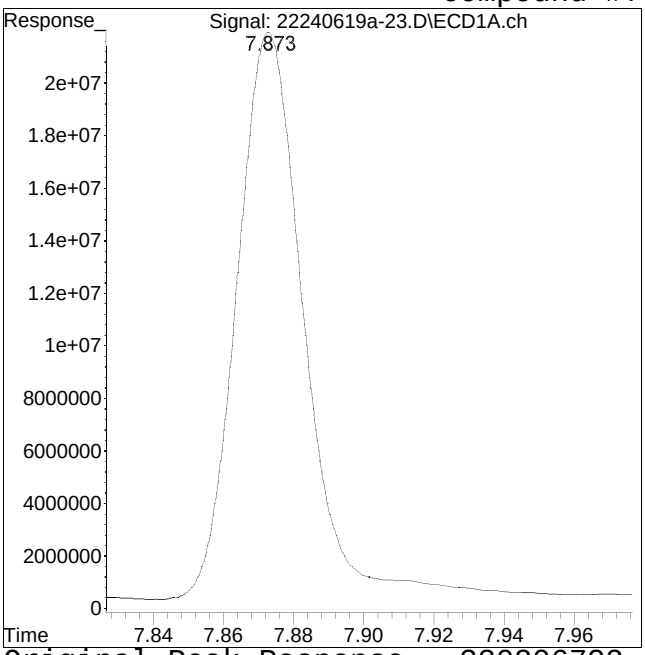


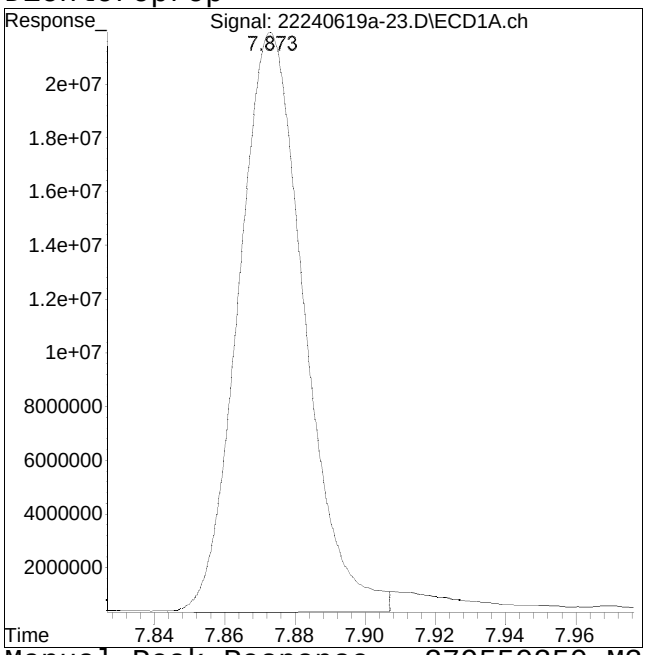
Manual Peak Response = 178888233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #7: Dichloroprop



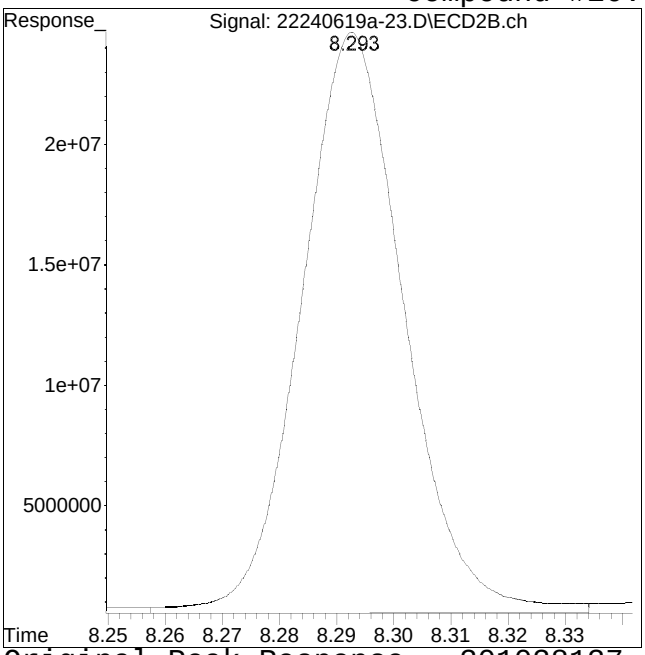


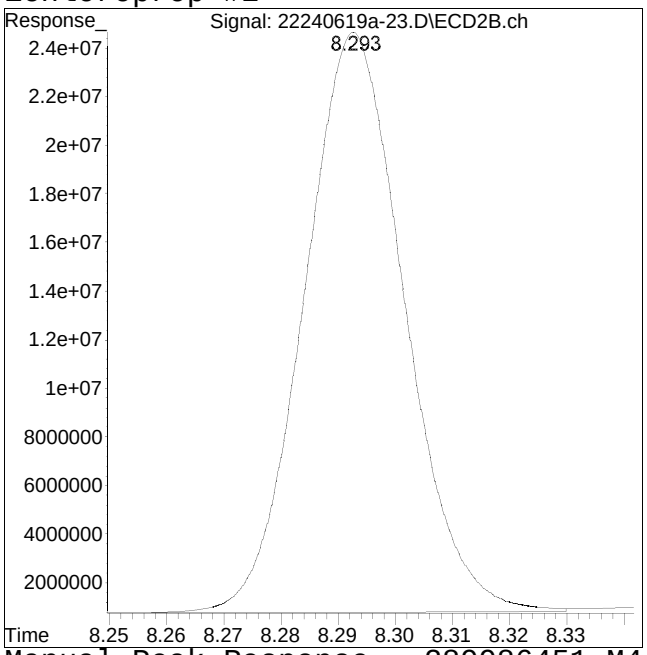
Original Peak Response = 330206722 Manual Peak Response = 279550350 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #20: Dichloroprop #2



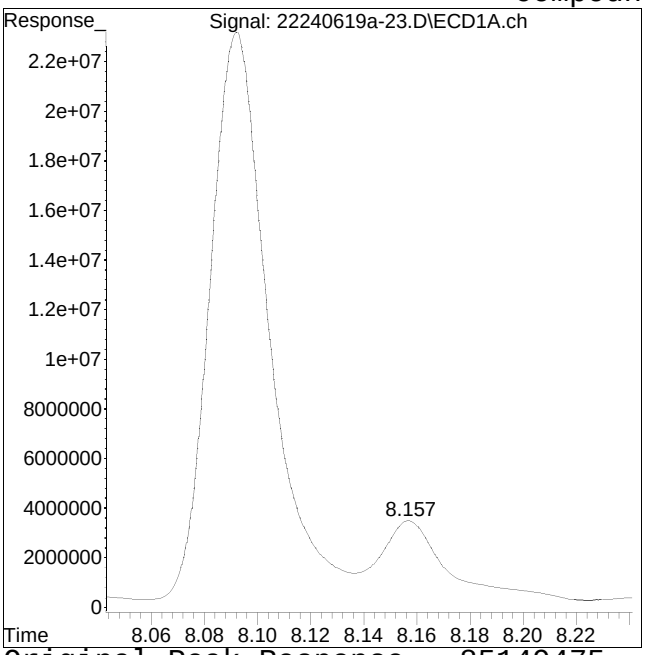


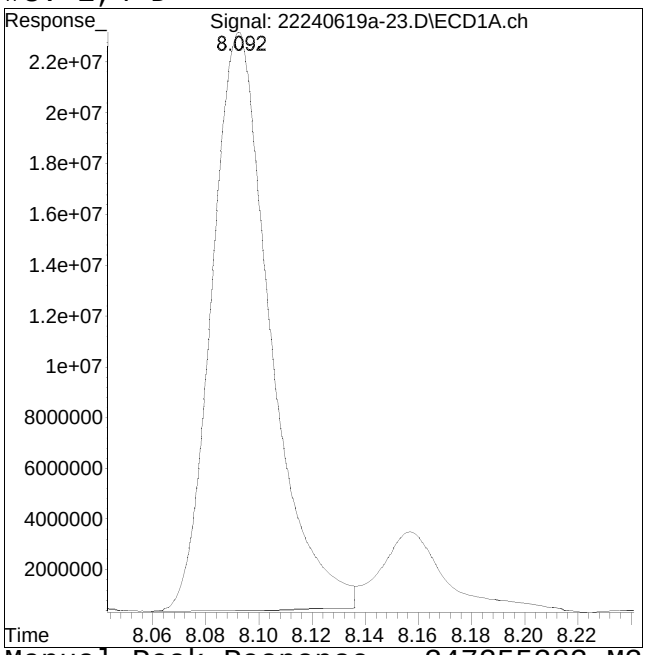
Original Peak Response = 301038137 Manual Peak Response = 289986451 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #8: 2,4-D



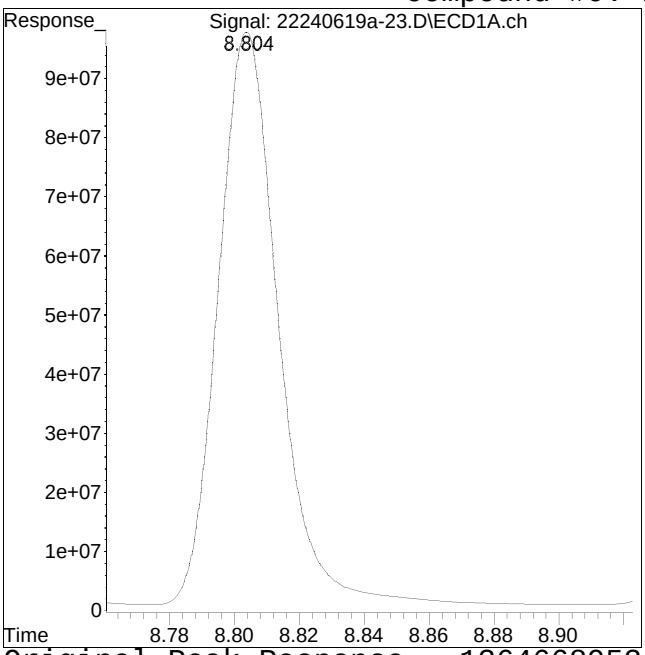


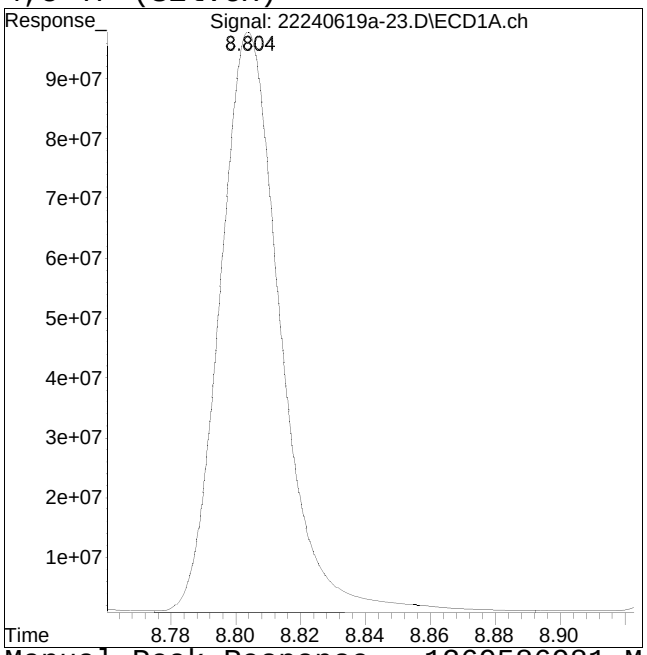
Original Peak Response = 85149475 Manual Peak Response = 347355383 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #9: 2,4,5-TP (Silvex)



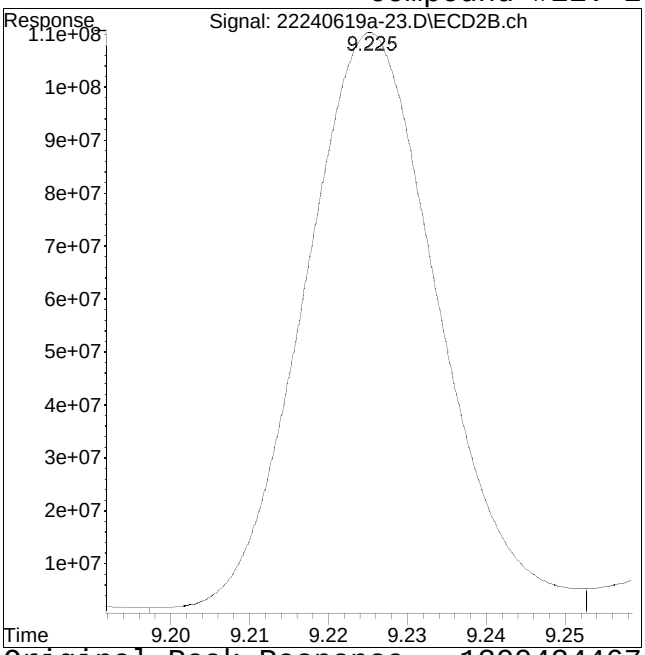


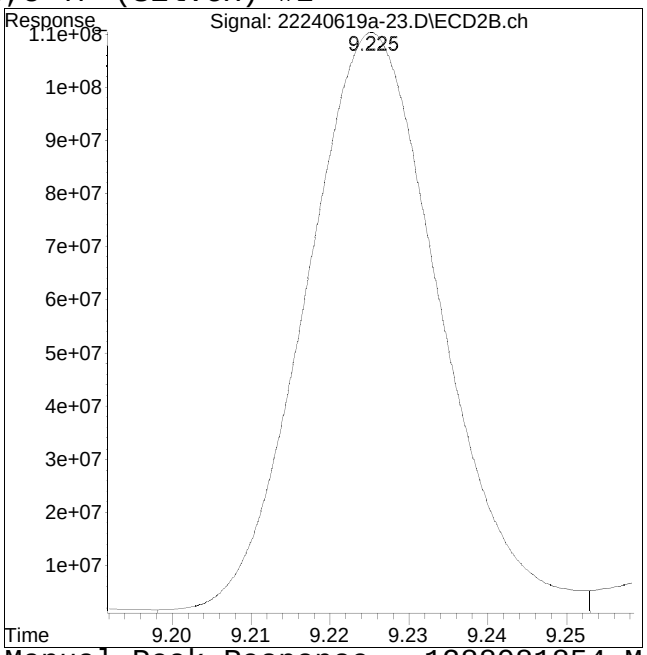
Original Peak Response = 1364668953 Manual Peak Response = 1269586981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #22: 2,4,5-TP (Silvex) #2



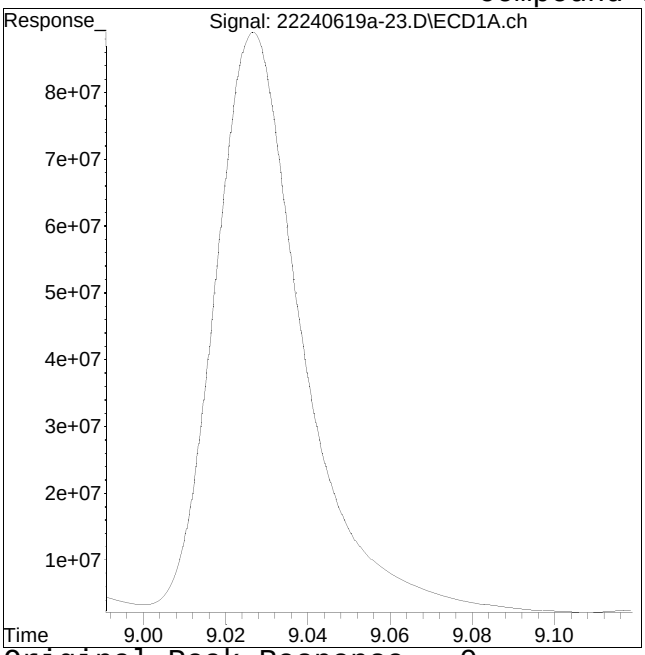


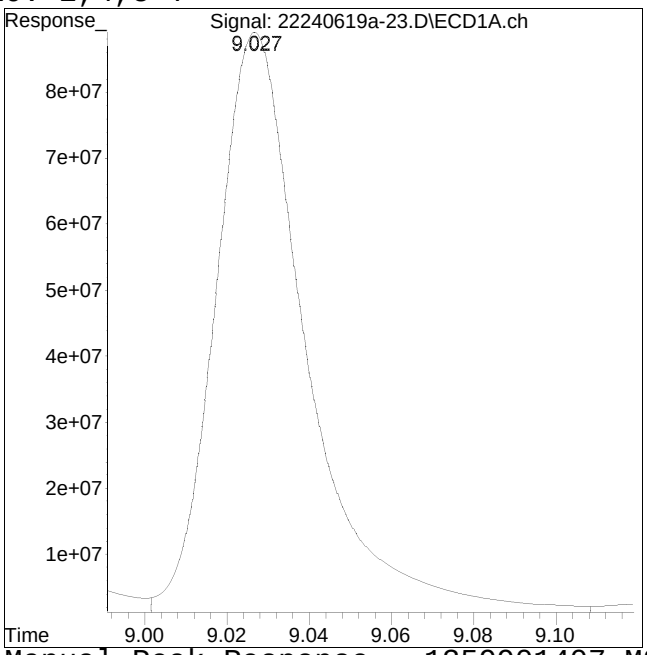
Original Peak Response = 1300424467 Manual Peak Response = 1288081854 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #10: 2,4,5-T



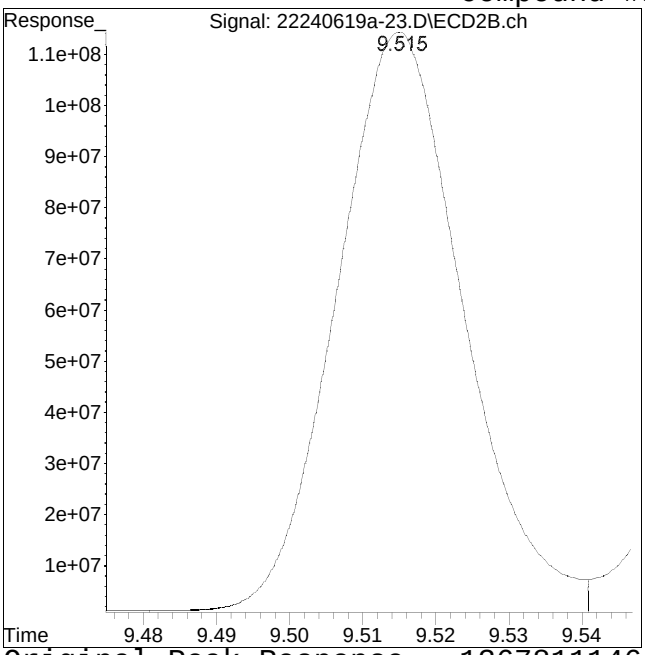


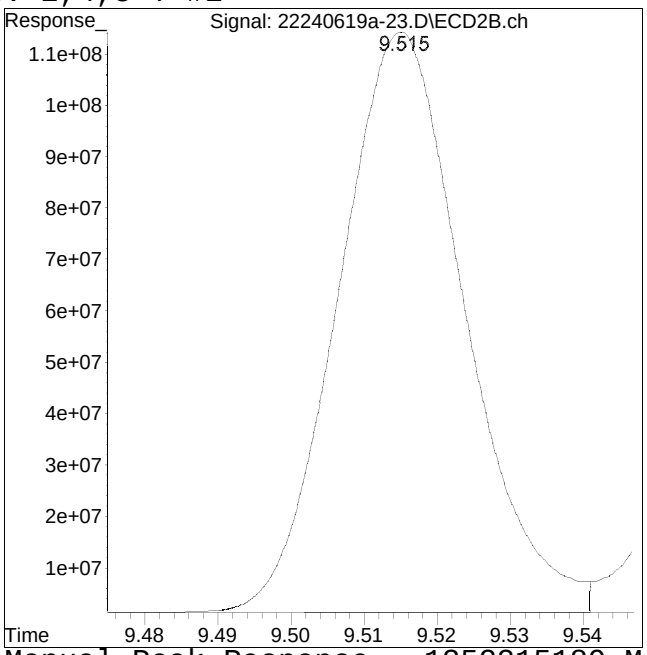
Original Peak Response = 0 Manual Peak Response = 1359901407 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #23: 2,4,5-T #2



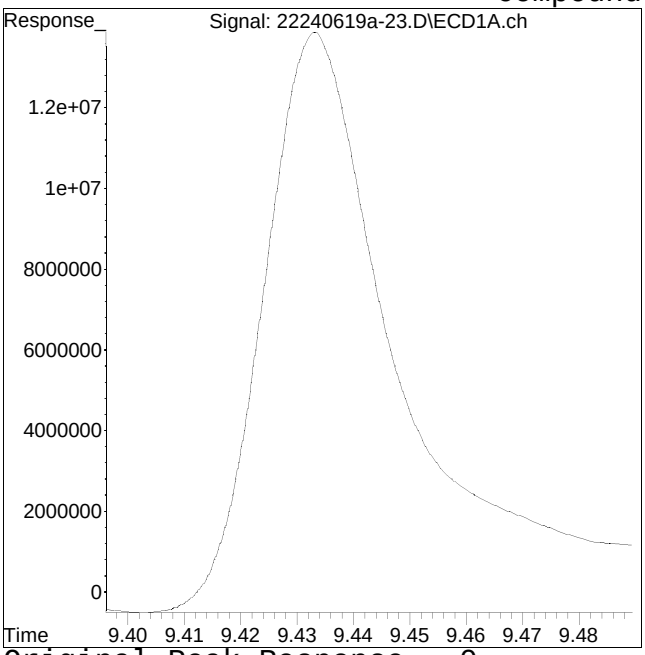


Original Peak Response = 1367811146 Manual Peak Response = 1352215189 M4
M4 = Poor automated baseline construction.

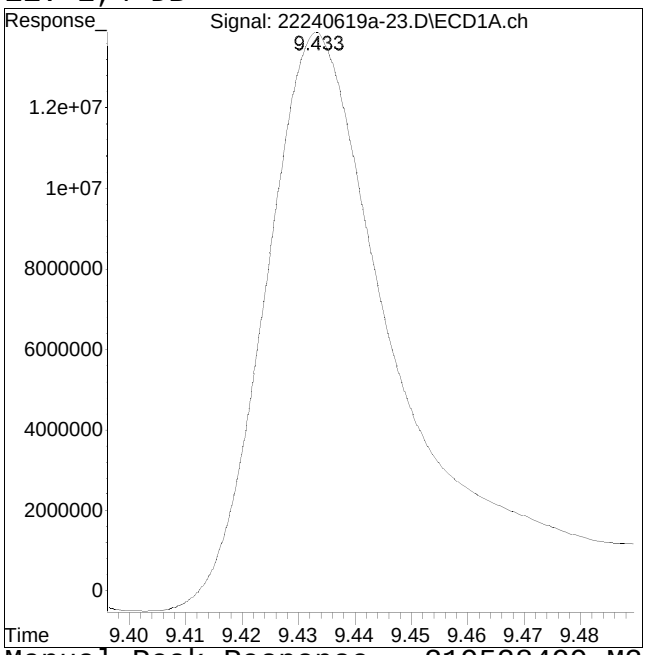
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #11: 2,4-DB



Original Peak Response = 0



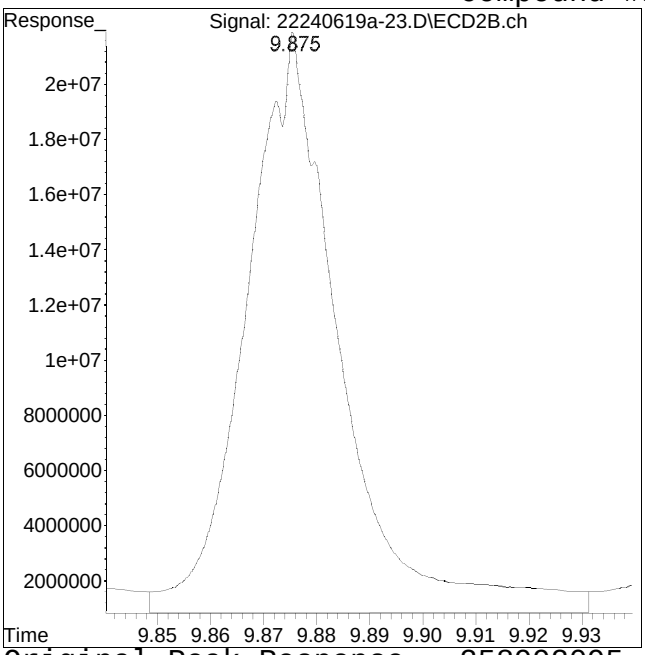
Manual Peak Response = 219528499 M2

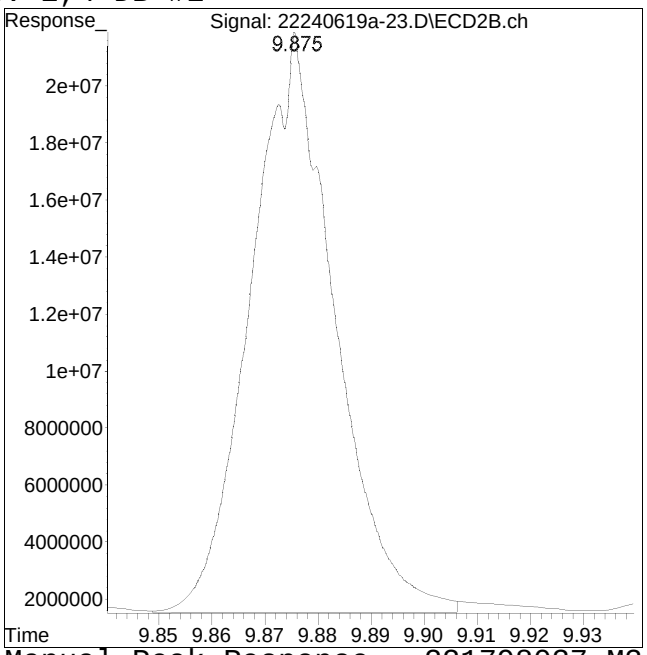
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #24: 2,4-DB #2



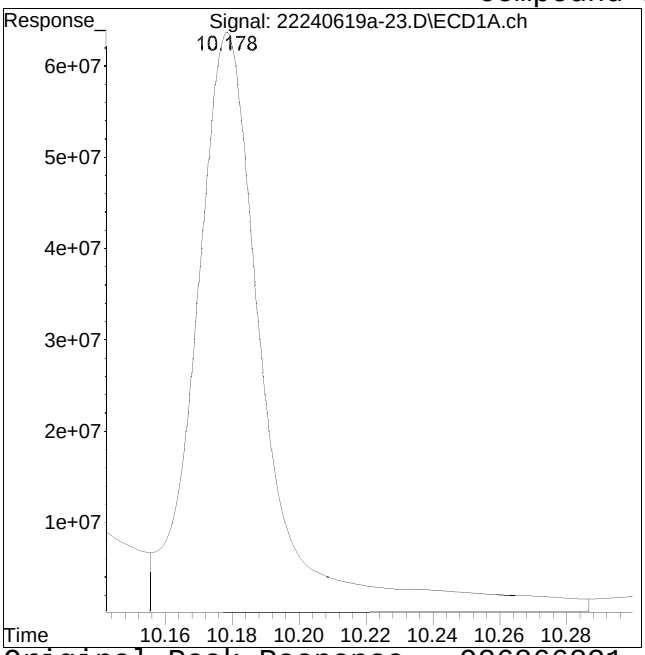


Original Peak Response = 258992095 Manual Peak Response = 221798037 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

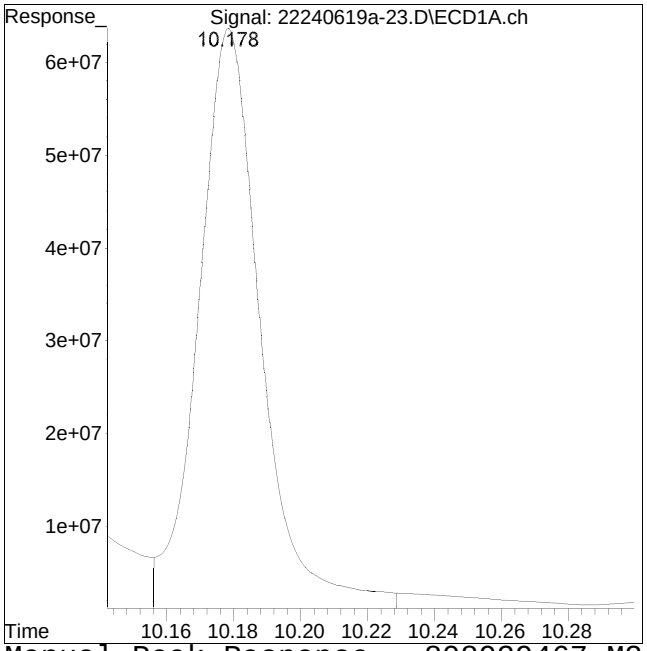
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #12: Dinoseb



Original Peak Response = 926866221



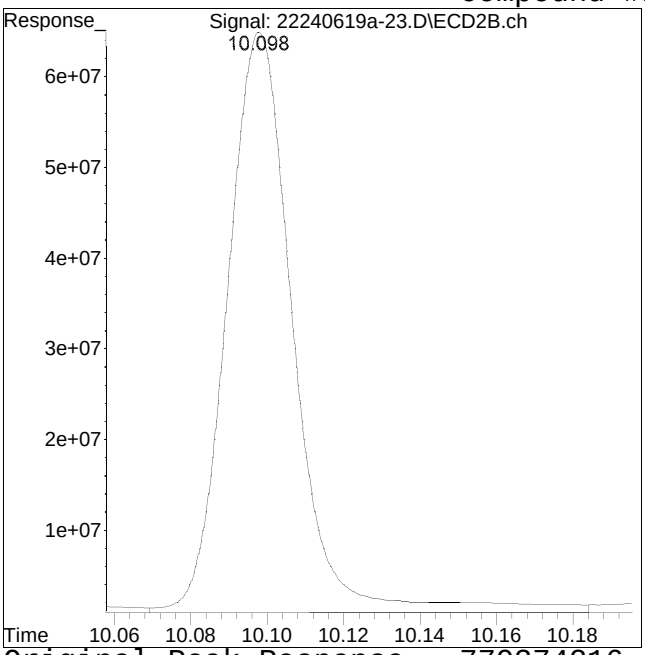
Manual Peak Response = 808939467 M2

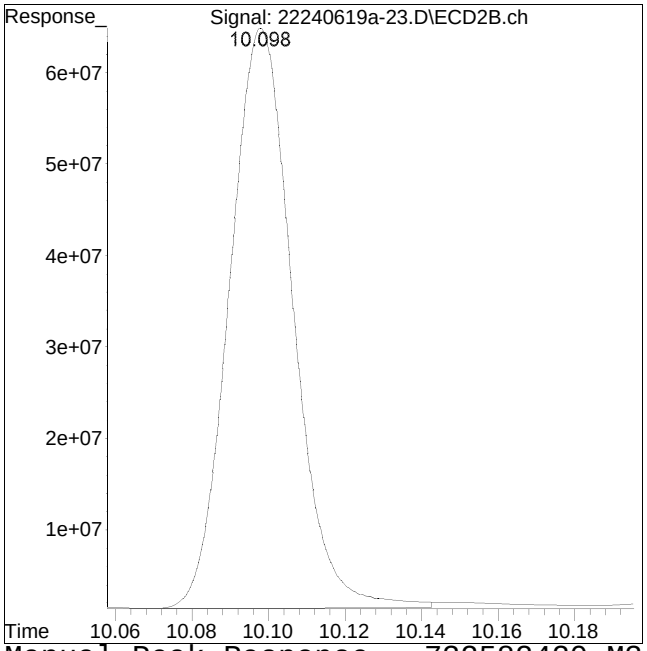
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #25: Dinoseb #2





Original Peak Response = 779374216 Manual Peak Response = 732582420 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-93.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:28 pm
Operator : pest22:ejl
Sample : WG1936519-3,42,, 518 519 520 ct (Sig #1); WG1936517-3,42,, 518 519 520 ct (Sig #2)
Misc : wg1936304,WG1936519,ical21040 (Sig #1); wg1936304,WG1936517,ical21040 (Sig #2)
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:59 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.531	8.527	648.9E6	675.8E6	0.250M3	0.250M3
	Standard Area 1 : #1 = 626492017				Recovery = 103.58%		
	Standard Area 1 : #2 = 678959739				Recovery = 99.53%		
	System Monitoring Compounds						
3) s	DCAA (surrog	6.986	7.457	285.3E6	303.1E6	0.534M4	0.554M4
	Spiked Amount 0.500	Range 30 - 150		Recovery = 106.80%		110.80%	
	Target Compounds						
2) t	Dalapon	2.391	2.389	250.7E6	300.8E6	0.457M3	0.564M4
4) t	Dicamba	7.170	7.638	855.7E6	846.8E6	0.560M3	0.528M3
5) t	MCPP	7.372	7.750	130.6E6	97215285	96.544	48.865 D
6) t	MCPA	7.518	7.976	182.5E6	160.5E6	72.719M4	47.892M3
7) t	Dichloroprop	7.872	8.293	242.8E6	254.8E6	0.485M3	0.491M4
8) t	2,4-D	8.087f	8.569f	297.8E6	341.1E6	0.478M3	0.532M4
9) t	2,4,5-TP (Si	8.802f	9.226	1022.7E6	1027.7E6	0.454M4	0.444M4
10) t	2,4,5-T	9.023f	9.515f	1106.4E6	1085.2E6	0.500M2	0.483M4
11) t	2,4-DB	9.430f	9.874f	192.8E6	157.8E6	0.562M2	0.415M4
12) t	Dinoseb	10.178	10.099	495.2E6	526.4E6	0.387M3	0.397
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-93.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:28 pm
Operator : pest22:ejl
Sample : WG1936519-3,42,, 518 519 520 ct (Sig #1); WG1936517-3,42,, 518 519 520 ct (Sig #2)
Misc : wg1936304,WG1936519,ical21040 (Sig #1); wg1936304,WG1936517,ical21040 (Sig #2)
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:59 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

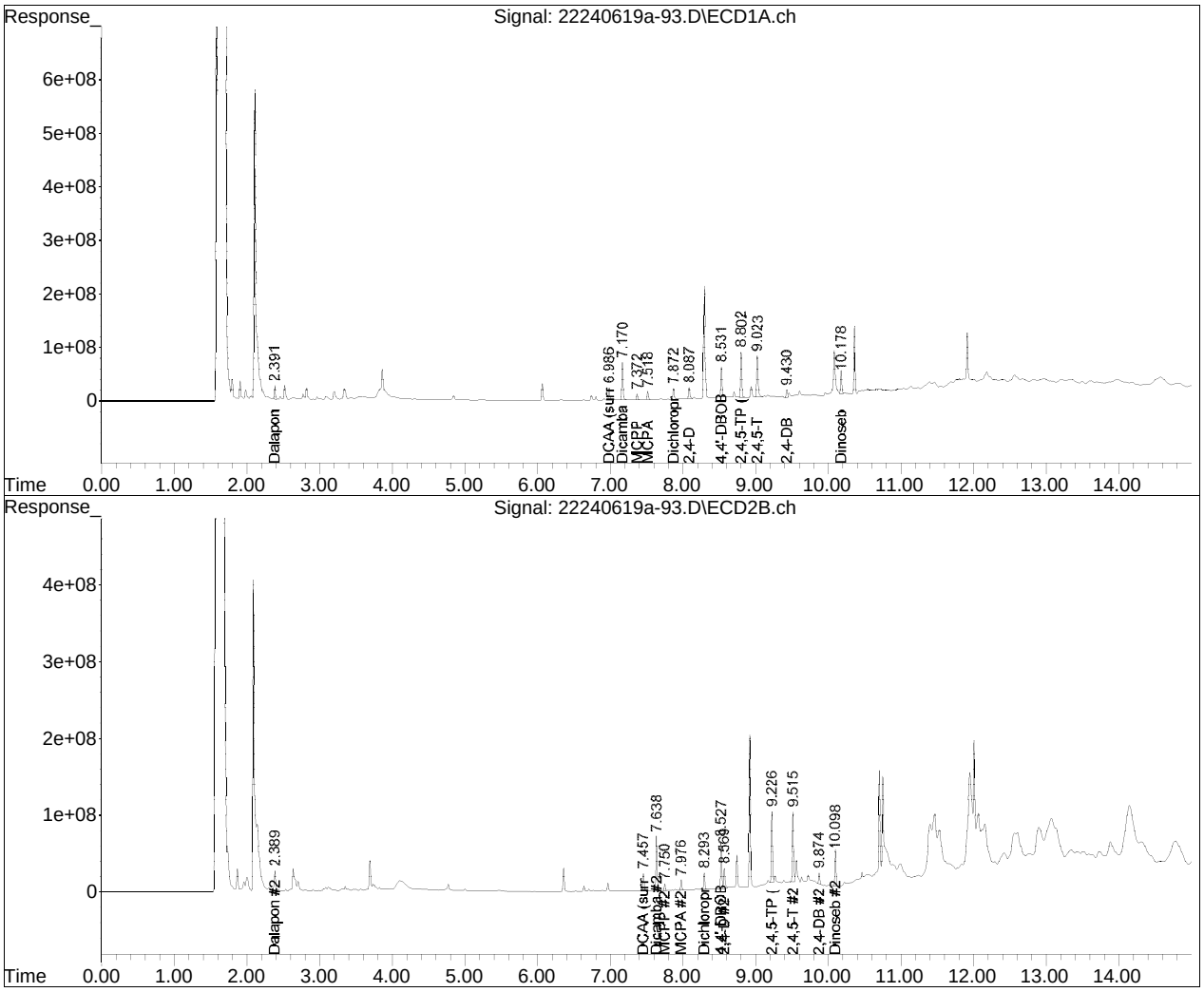
Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Sub List : Default - All compounds listeda\22240619a-87.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-93.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 05:28 pm
Operator : pest22:ejl
Sample : WG1936519-3,42,, 518 519 520 ct (Sig #1); WG1936517-3,42,, 518 519
Misc : wg1936304,WG1936519,ical21040 (Sig #1); wg1936304,WG1936517,ical21
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 18:11:59 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

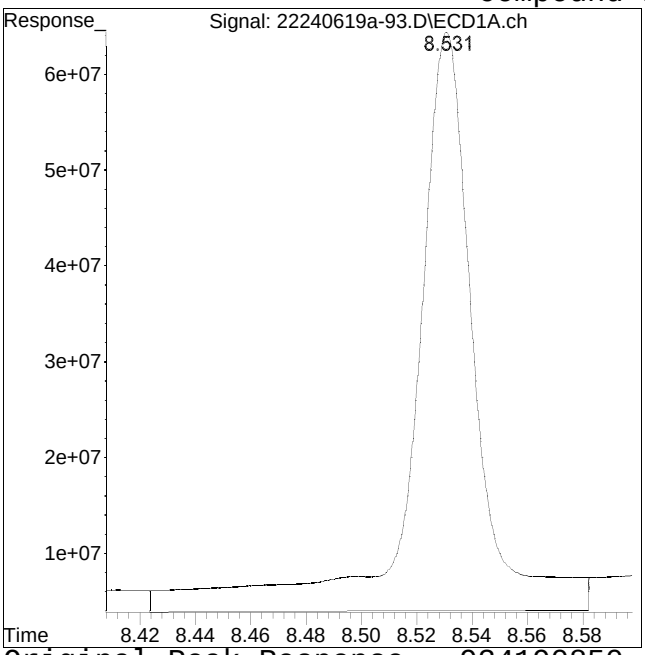
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

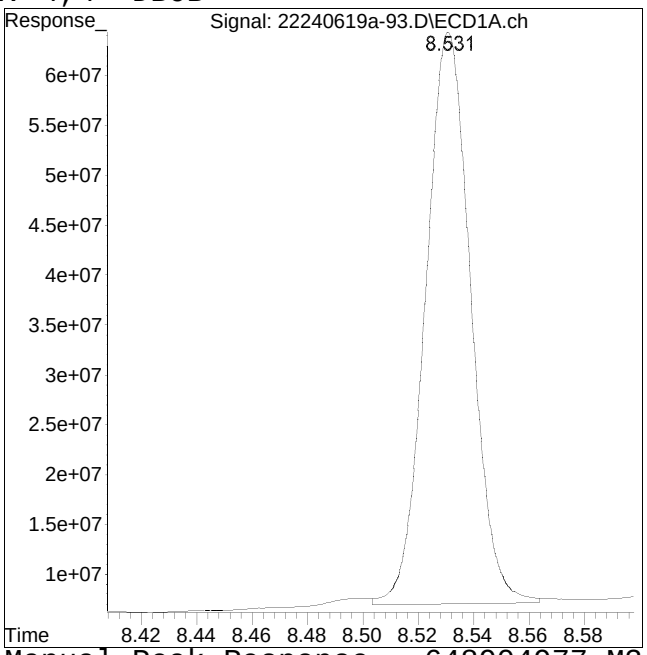


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #1: 4,4'-DBOB



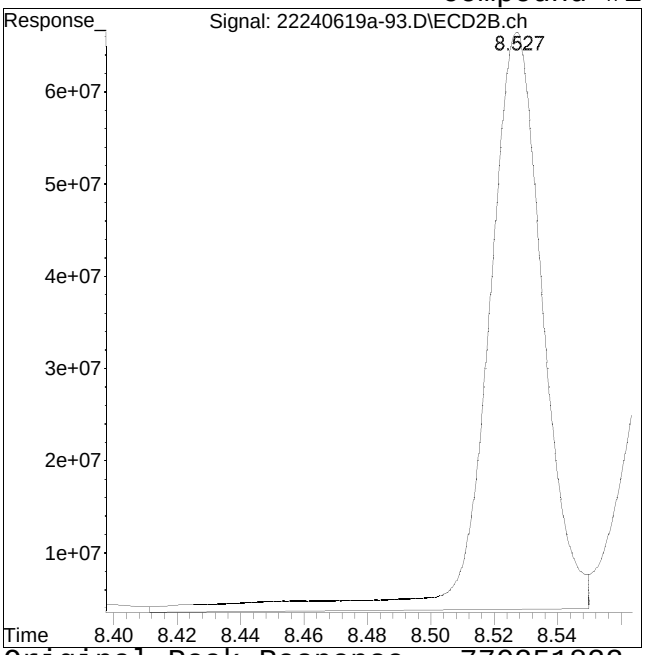


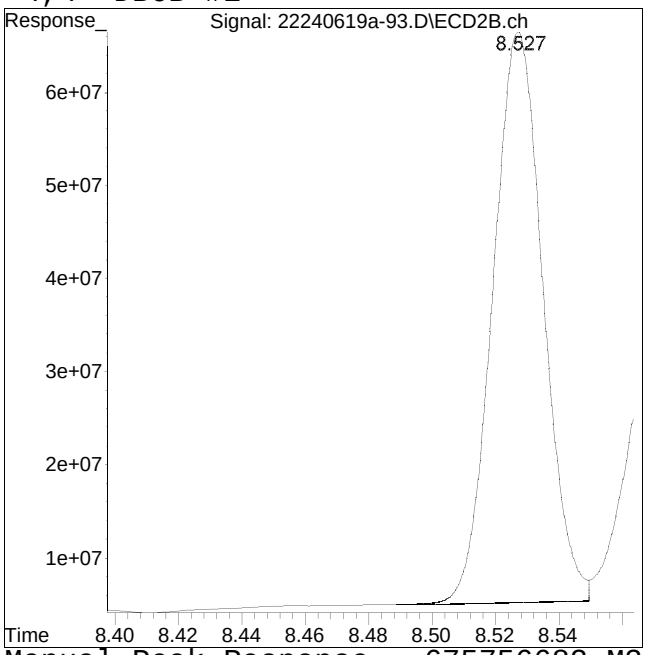
Original Peak Response = 934190850 Manual Peak Response = 648904977 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #14: 4,4'-DBOB #2



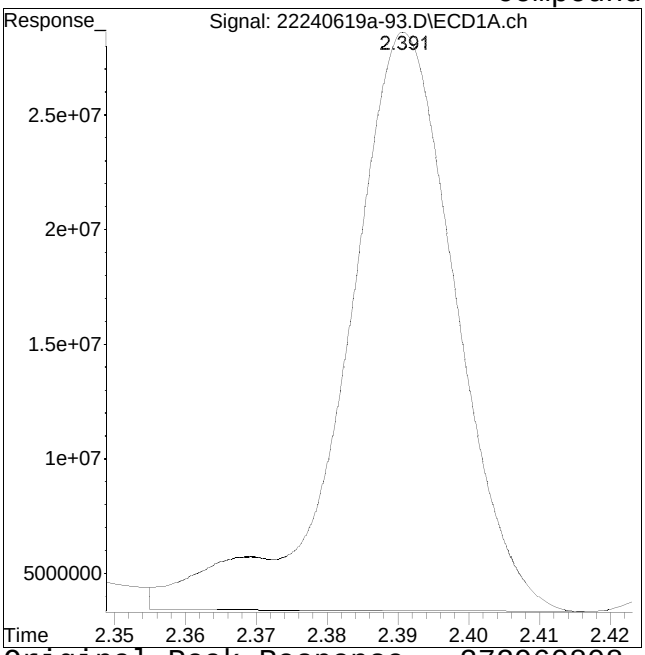


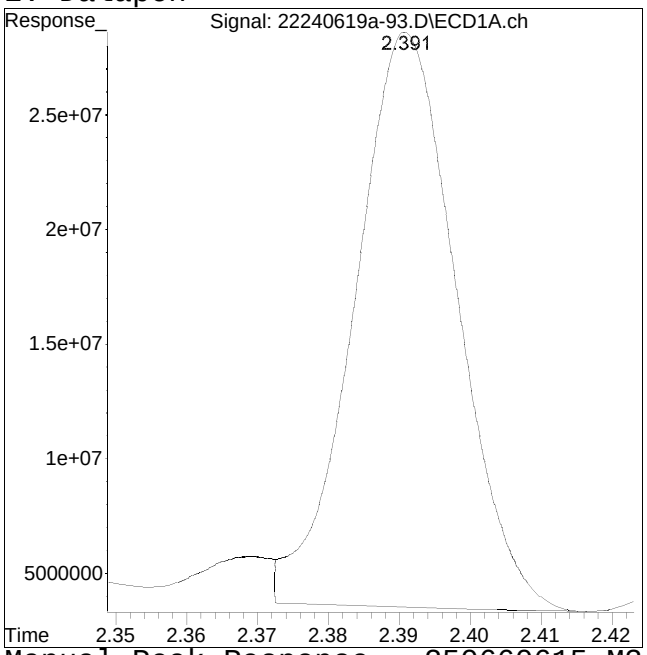
Original Peak Response = 770251822 Manual Peak Response = 675756682 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #2: Dalapon



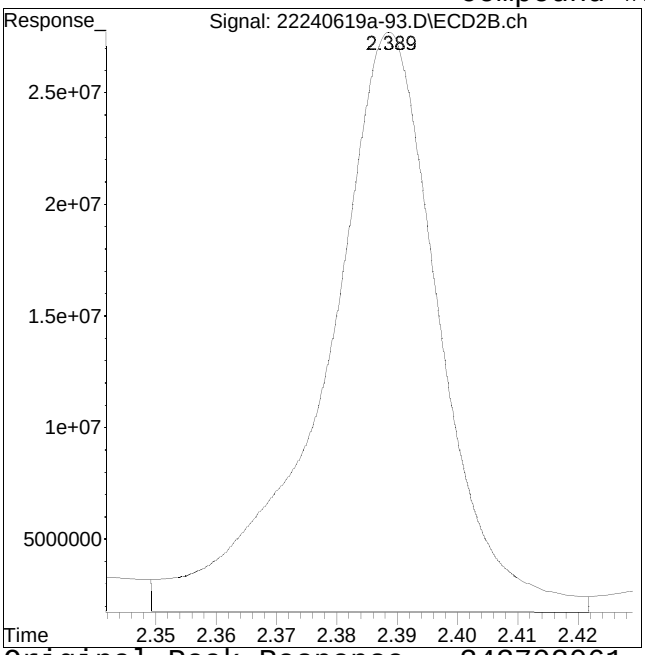


Original Peak Response = 272960808 Manual Peak Response = 250660615 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

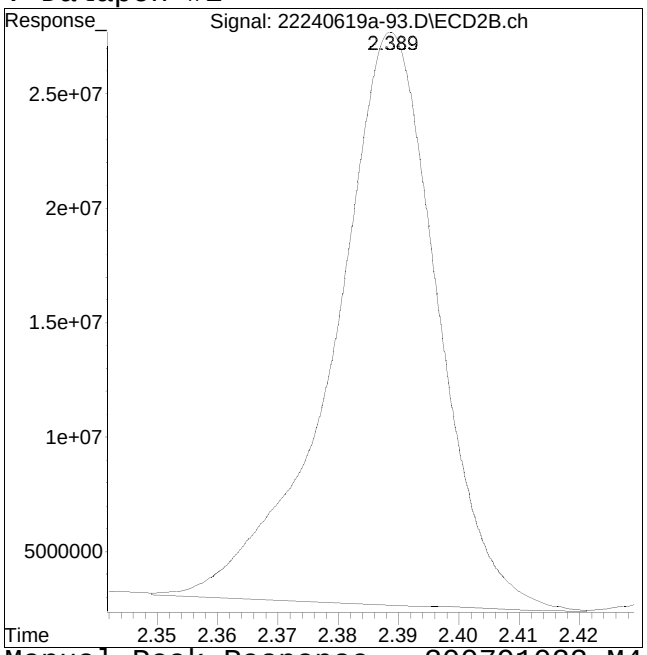
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #15: Dalapon #2



Original Peak Response = 343702061



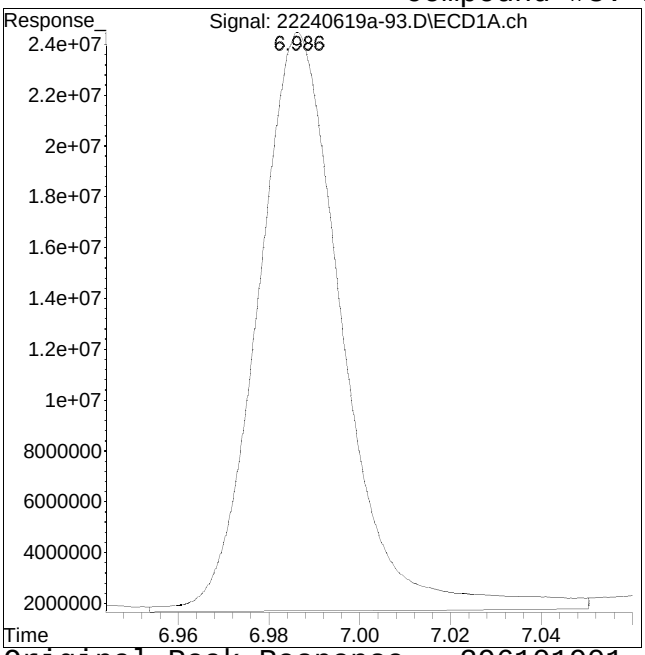
Manual Peak Response = 300791022 M4

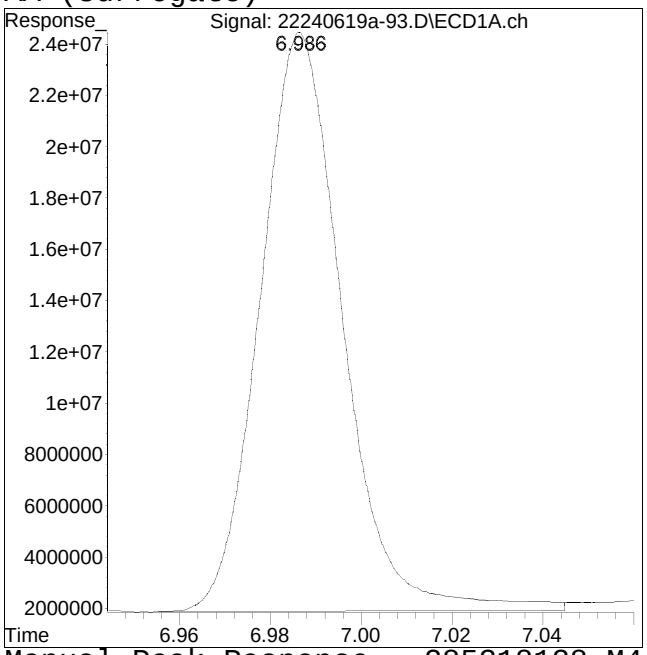
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #3: DCAA (surrogate)



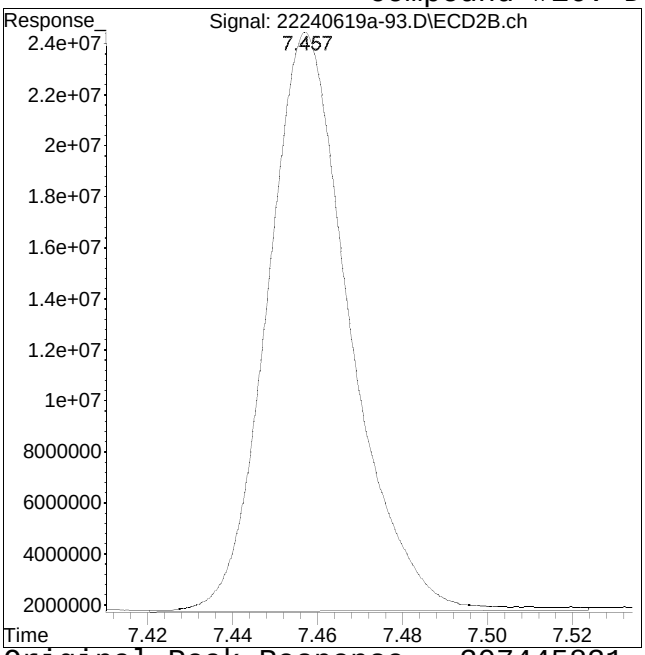


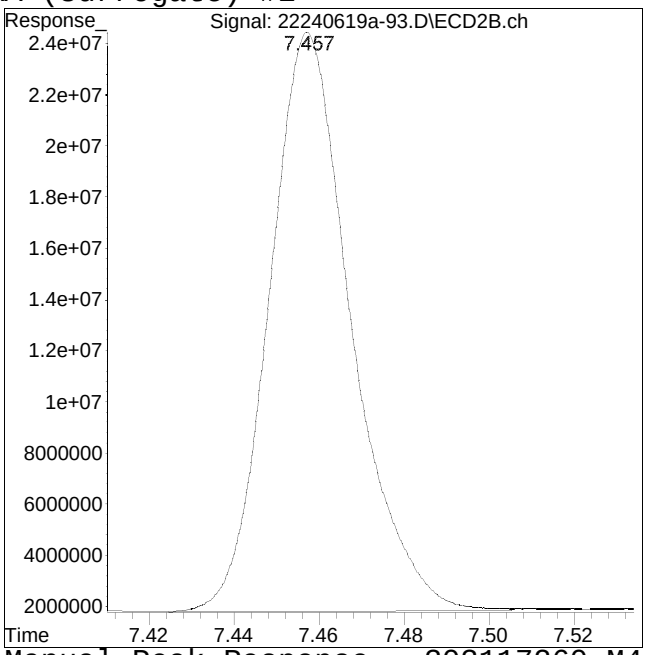
Original Peak Response = 296101901 Manual Peak Response = 285318128 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #16: DCAA (surrogate) #2



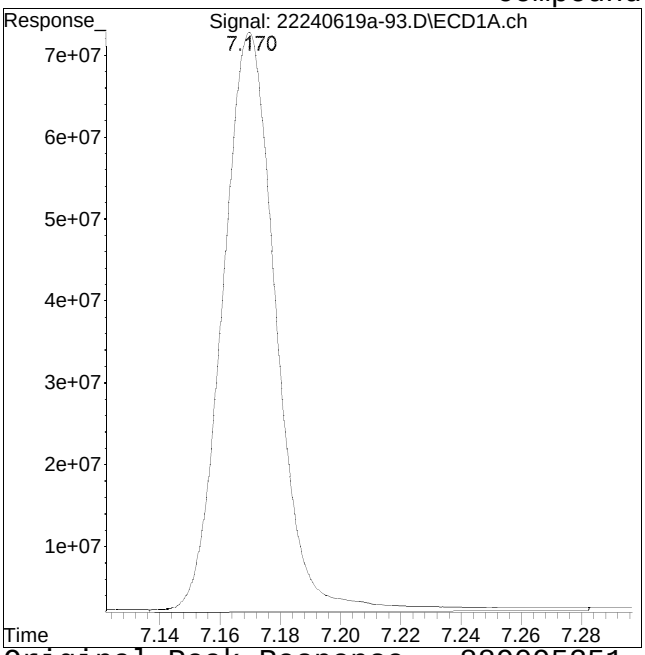


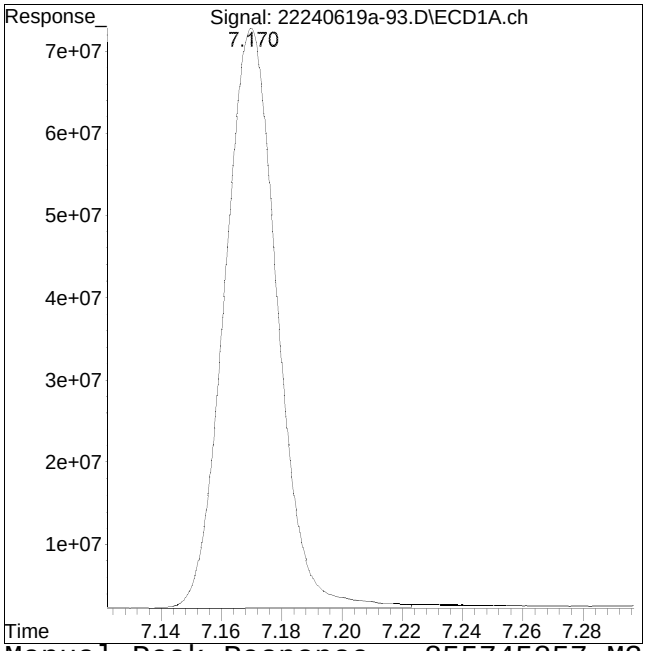
Original Peak Response = 307445831 Manual Peak Response = 303117260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #4: Dicamba



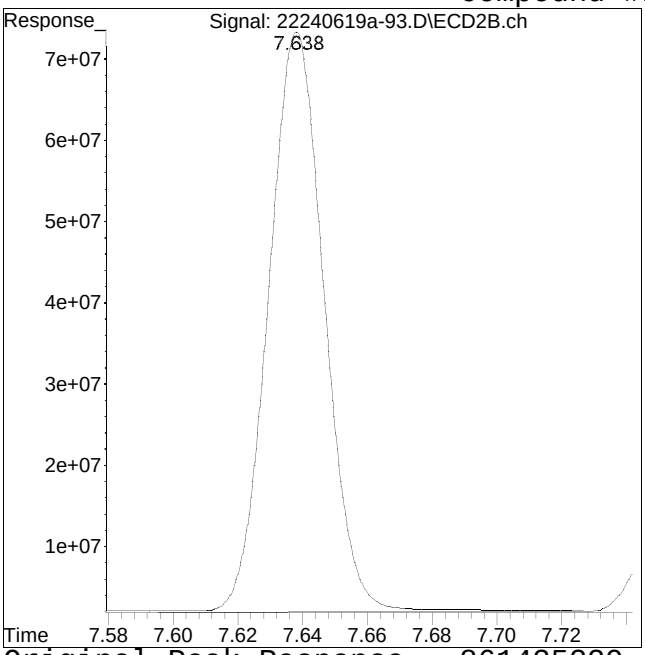


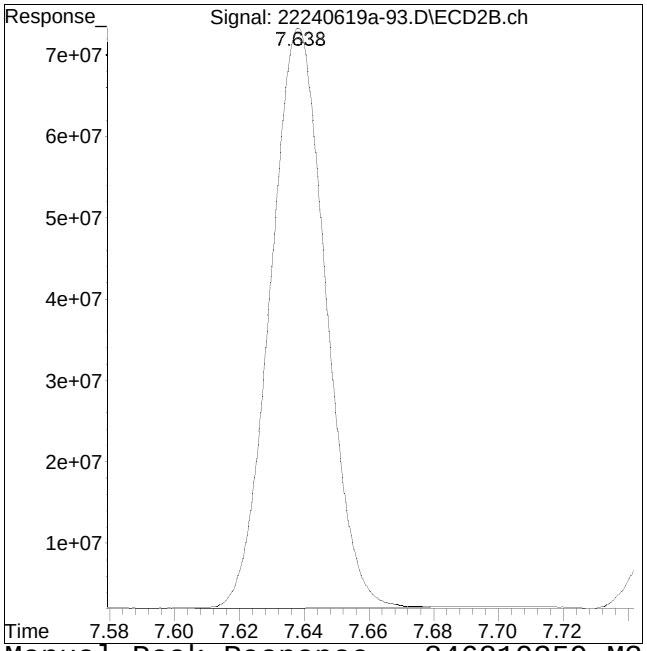
Original Peak Response = 889095351 Manual Peak Response = 855745857 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #17: Dicamba #2



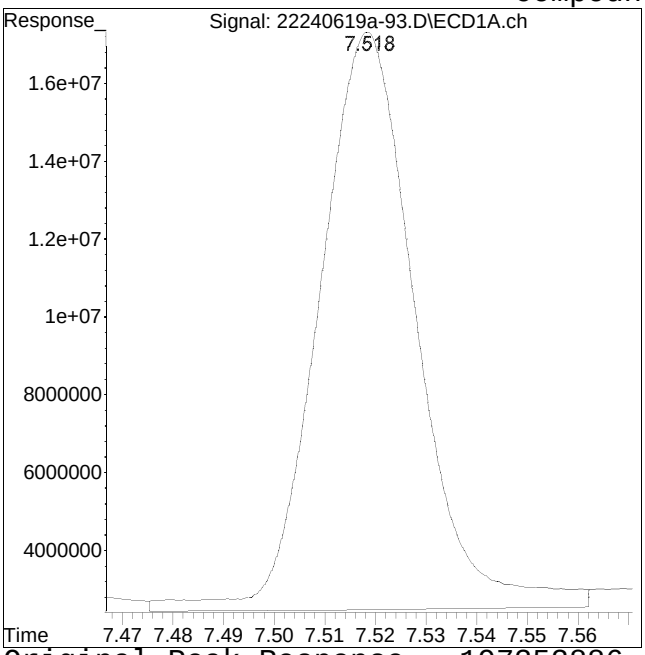


Original Peak Response = 861425229 Manual Peak Response = 846810359 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

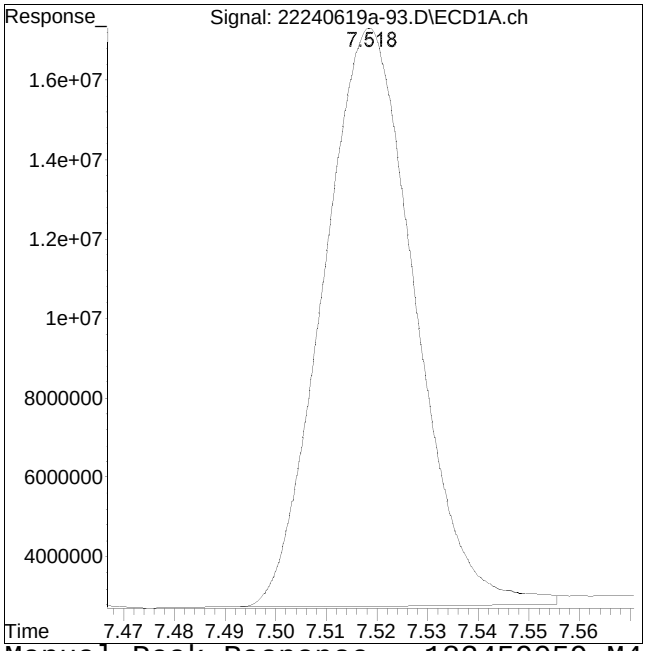
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #6: MCPA



Original Peak Response = 197352886



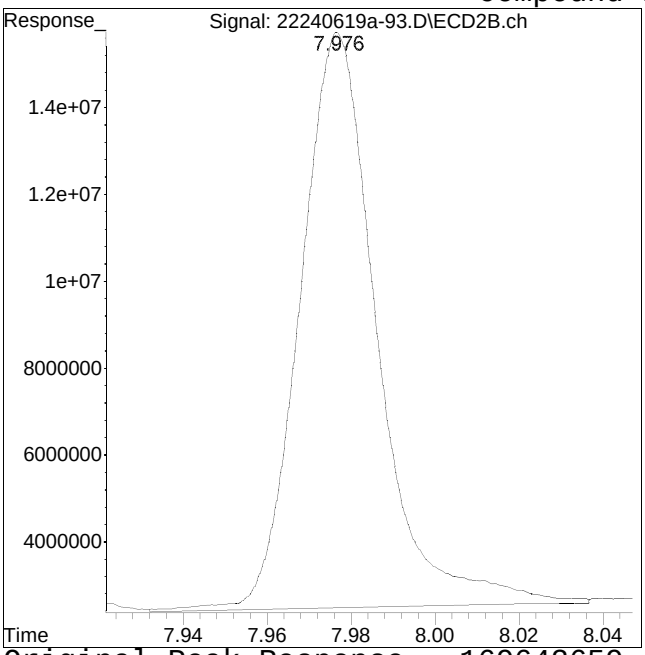
Manual Peak Response = 182459059 M4

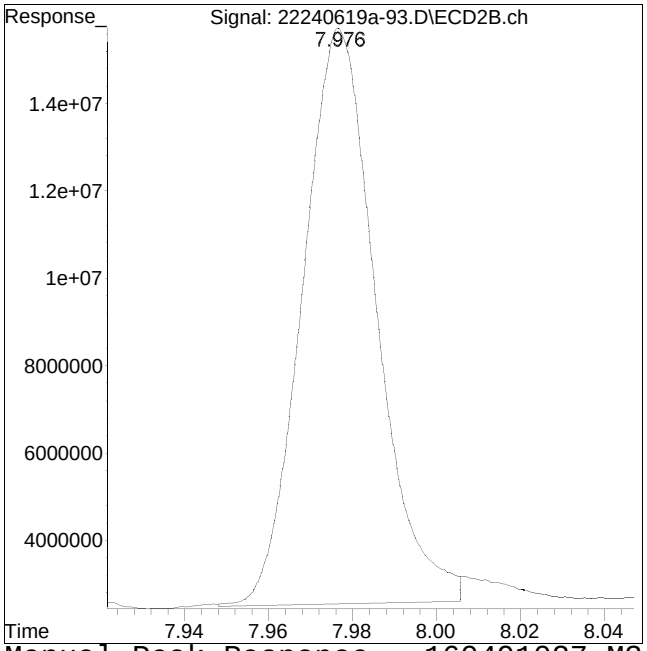
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #19: MCPA #2



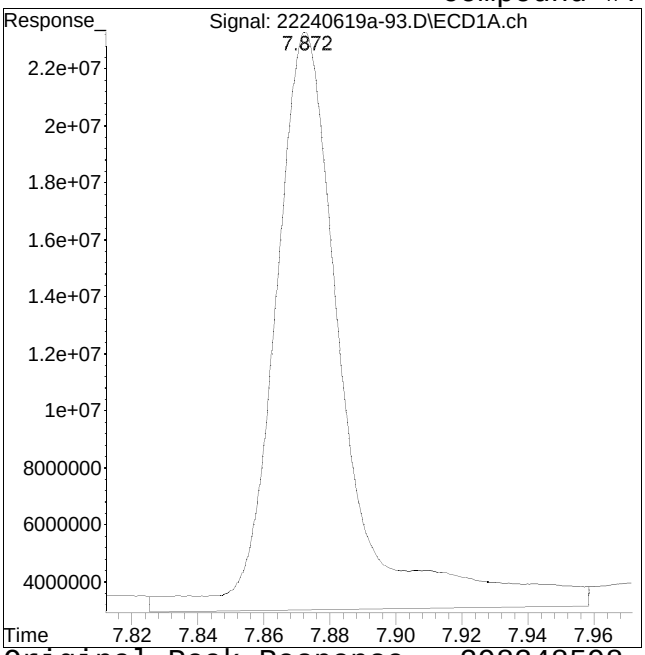


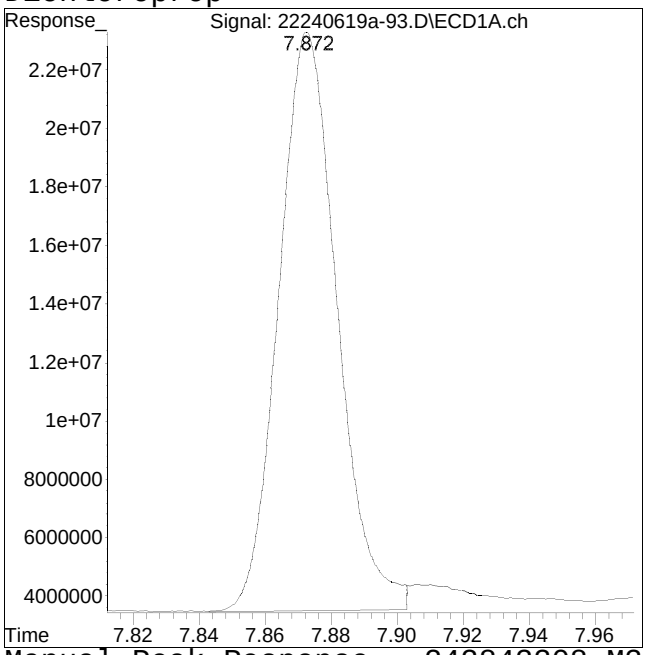
Original Peak Response = 169642659 Manual Peak Response = 160491027 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #7: Dichloroprop



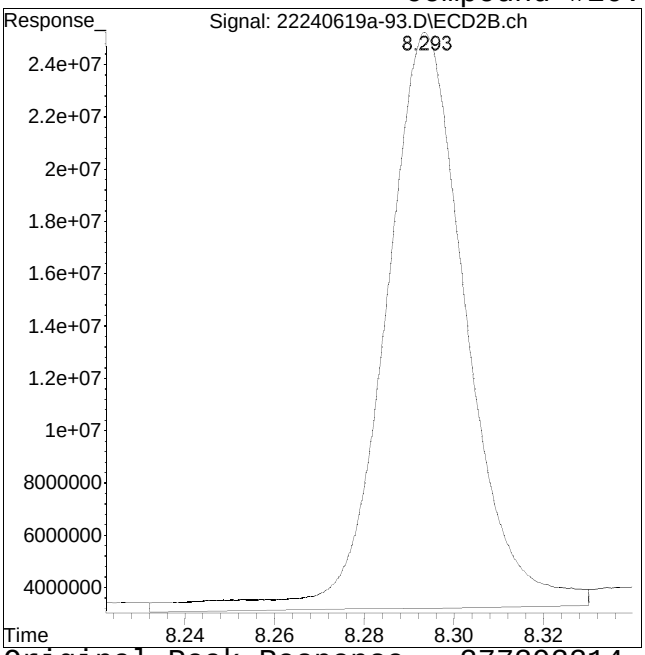


Original Peak Response = 298348598 Manual Peak Response = 242843308 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

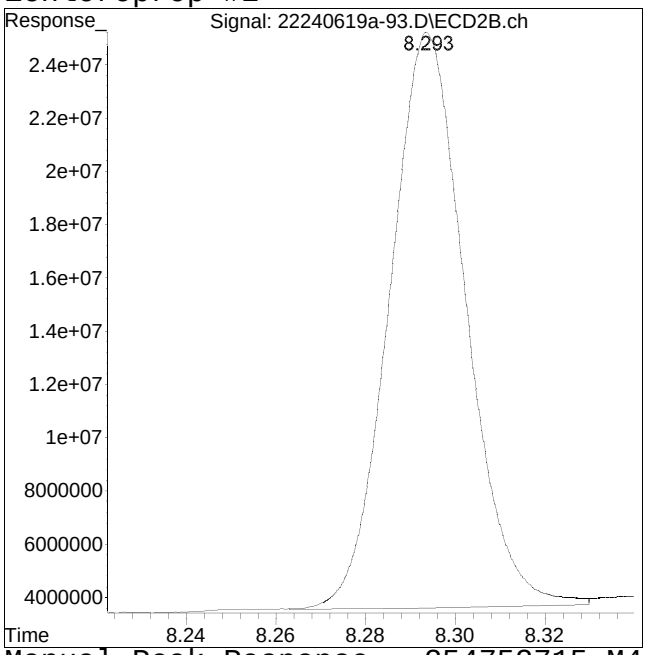
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #20: Dichloroprop #2



Original Peak Response = 277392314



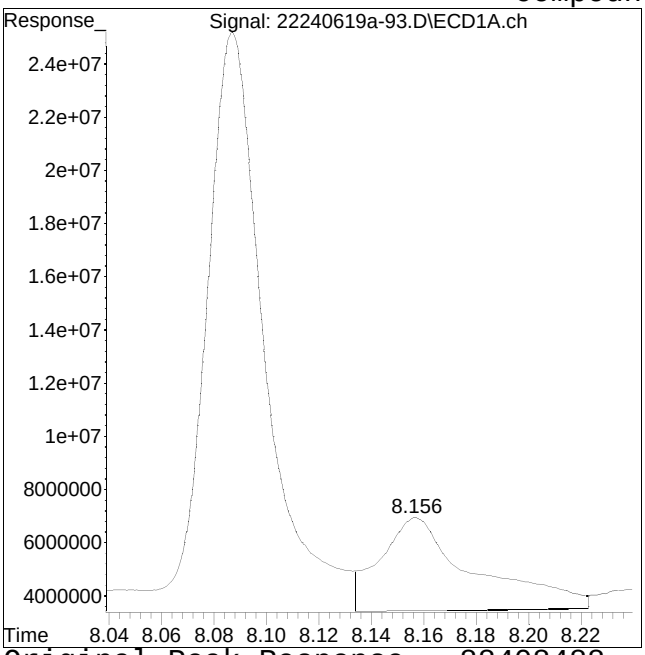
Manual Peak Response = 254752715 M4

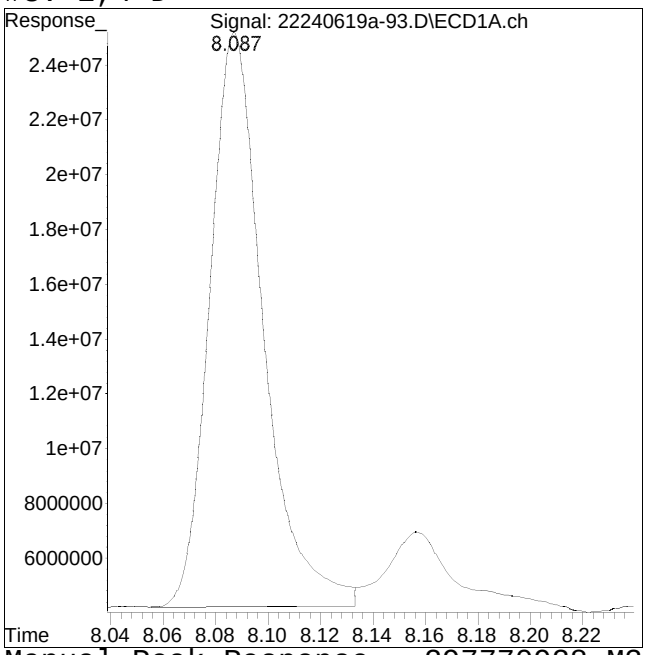
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #8: 2,4-D





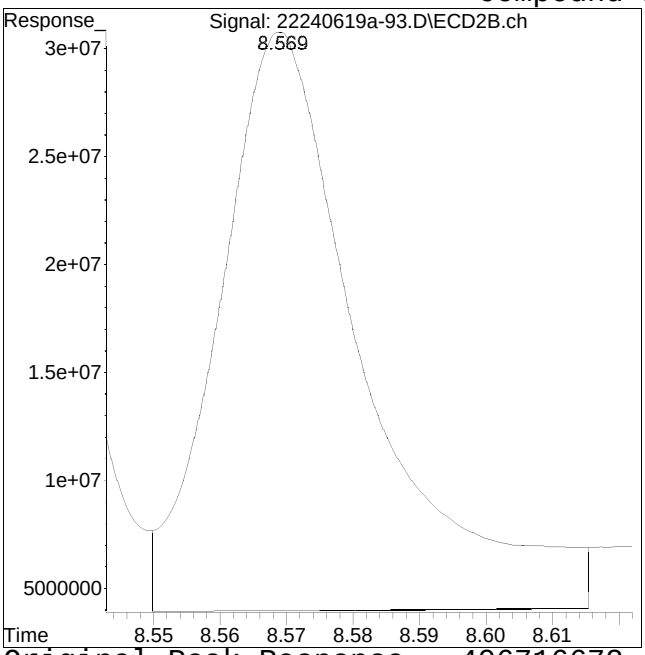
Original Peak Response = 88408488 Manual Peak Response = 297770928 M3

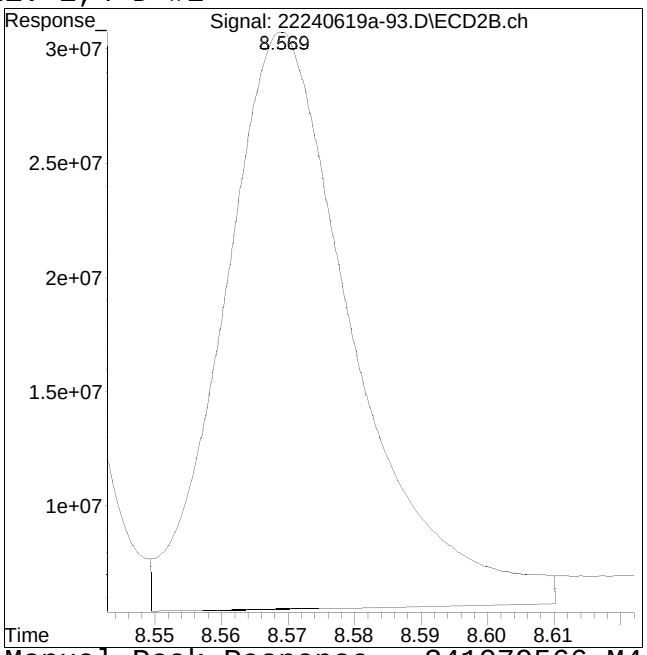
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #21: 2,4-D #2



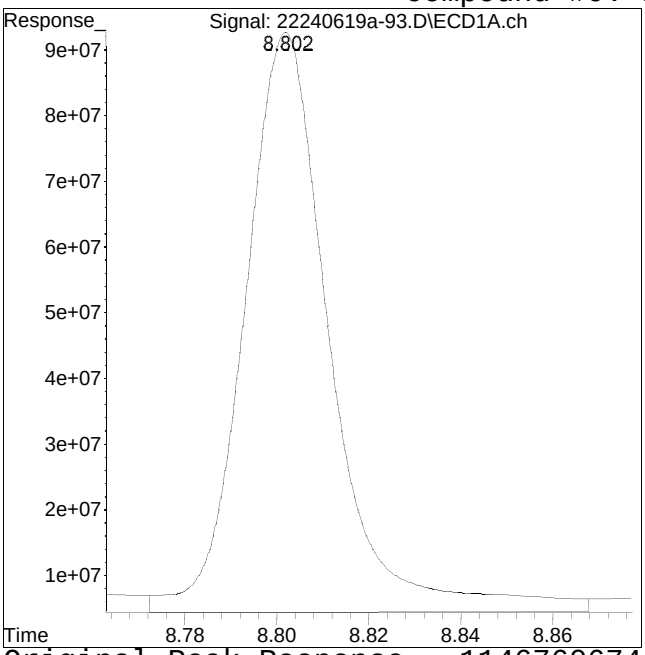


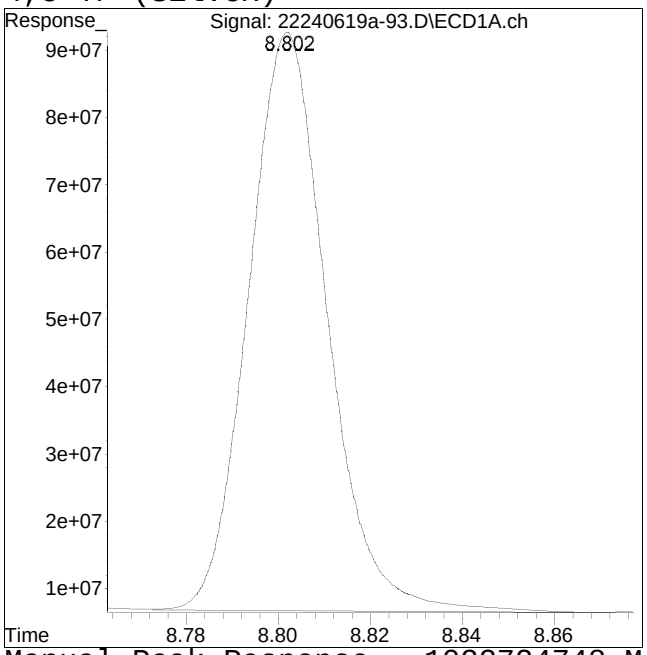
Original Peak Response = 406716672 Manual Peak Response = 341079566 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #9: 2,4,5-TP (Silvex)



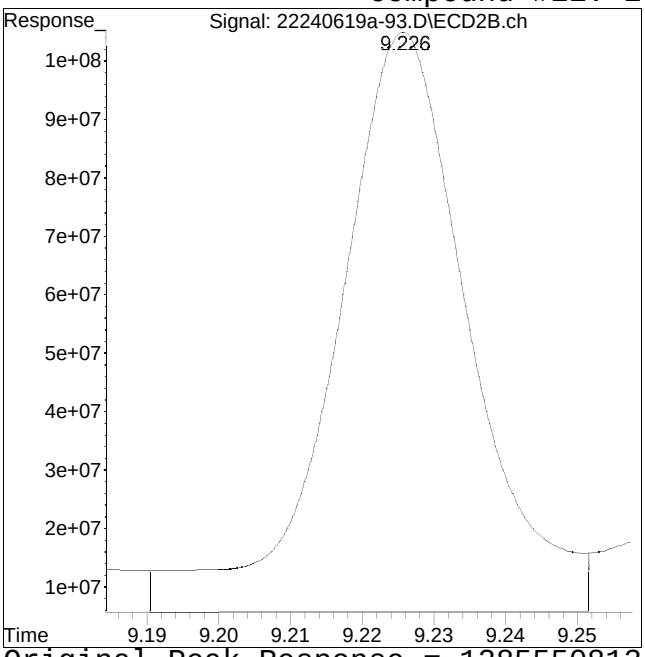


Original Peak Response = 1146760674 Manual Peak Response = 1022724748 M4
M4 = Poor automated baseline construction.

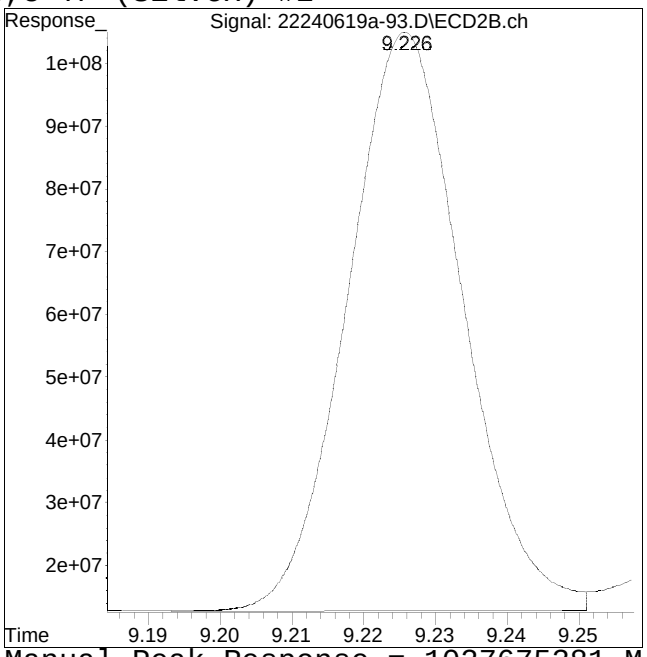
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 1285550813

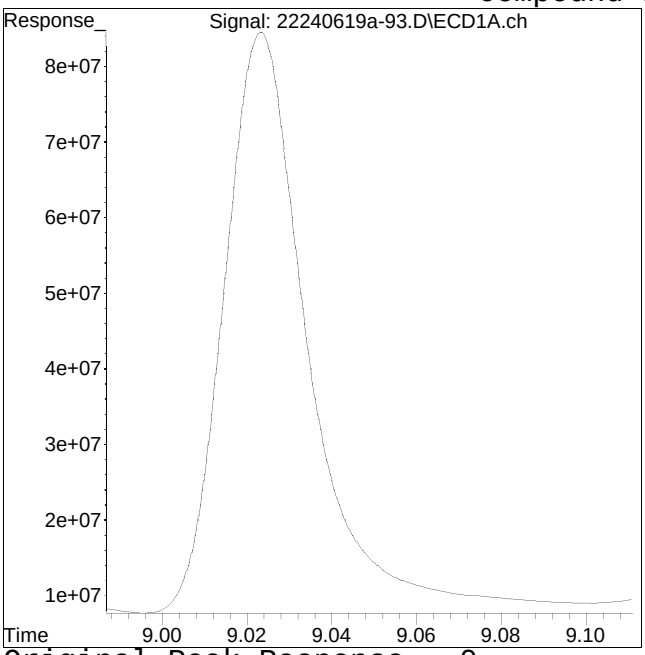


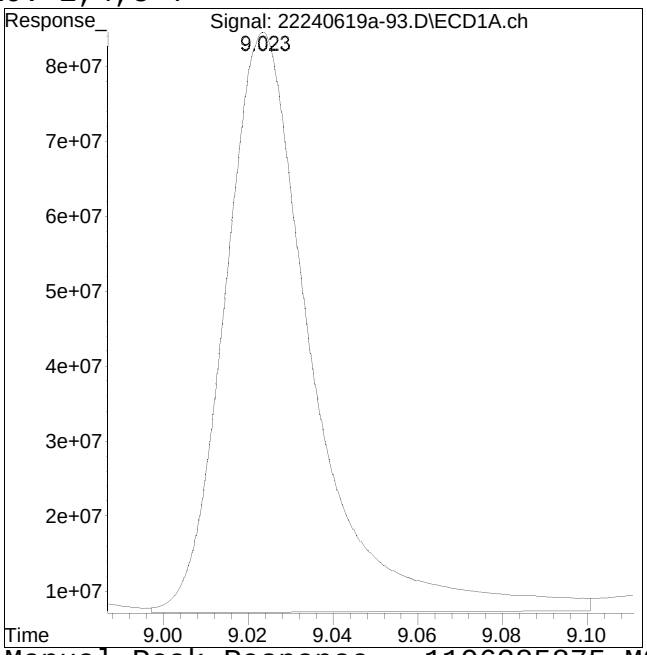
Manual Peak Response = 1027675381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #10: 2,4,5-T



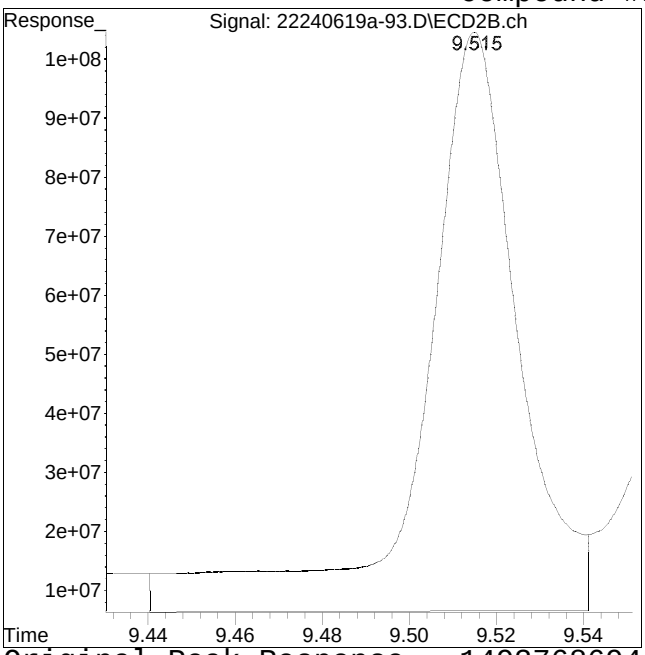


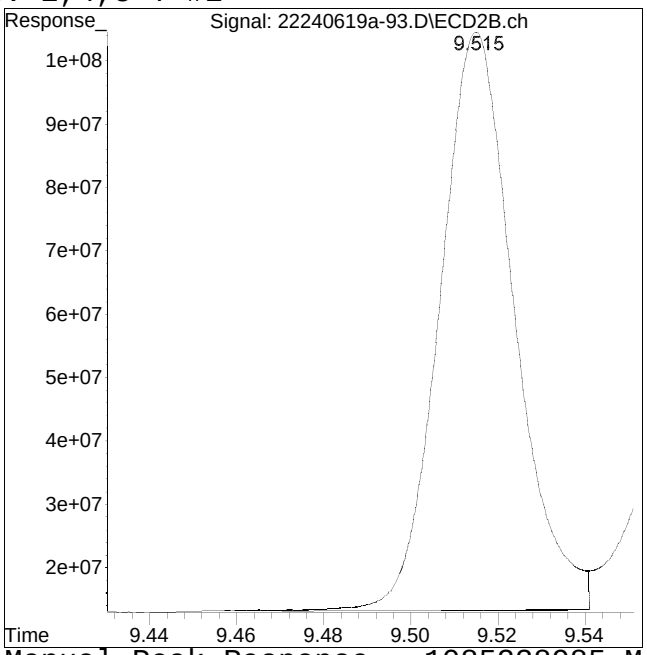
Original Peak Response = 0 Manual Peak Response = 1106385875 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #23: 2,4,5-T #2



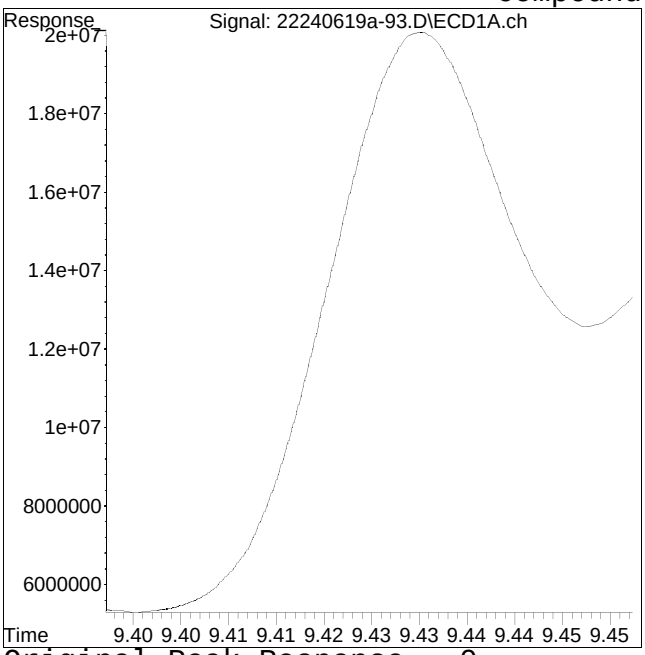


Original Peak Response = 1493768694 Manual Peak Response = 1085238985 M4
M4 = Poor automated baseline construction.

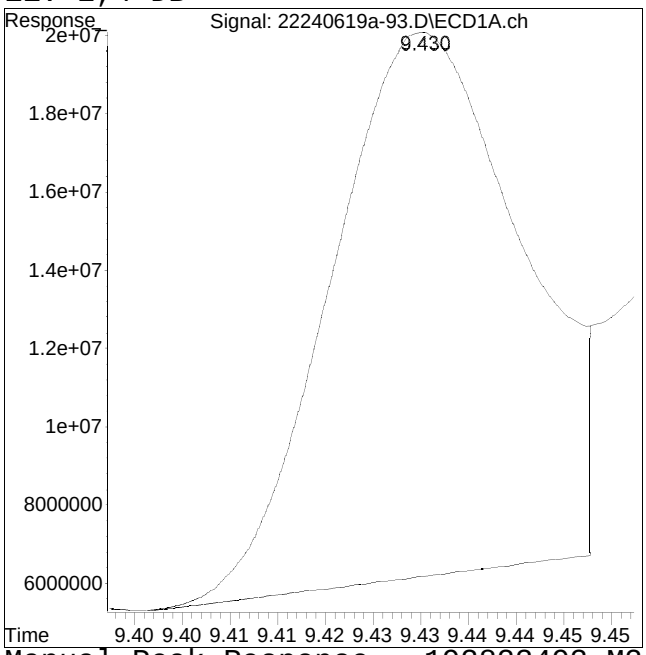
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #11: 2,4-DB



Original Peak Response = 0



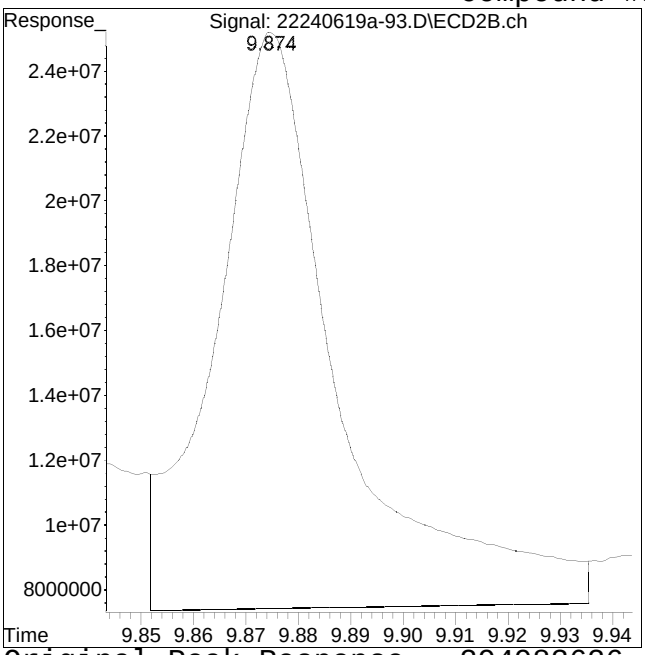
Manual Peak Response = 192823493 M2

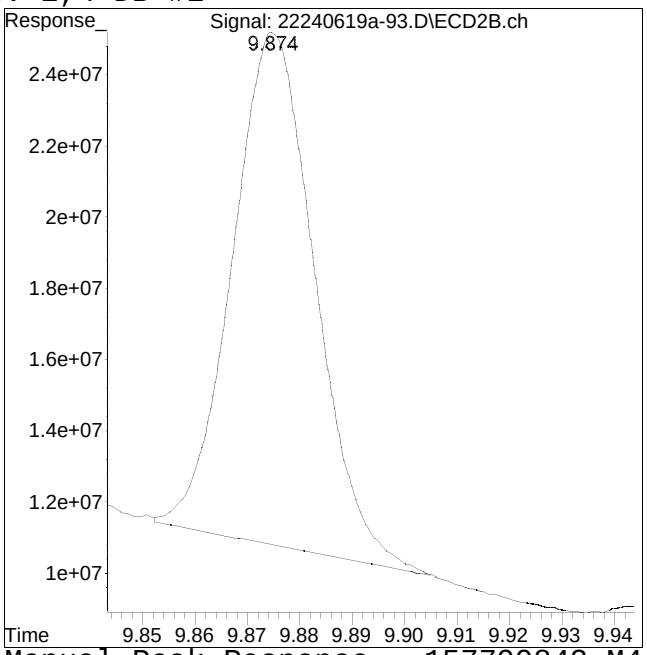
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #24: 2,4-DB #2



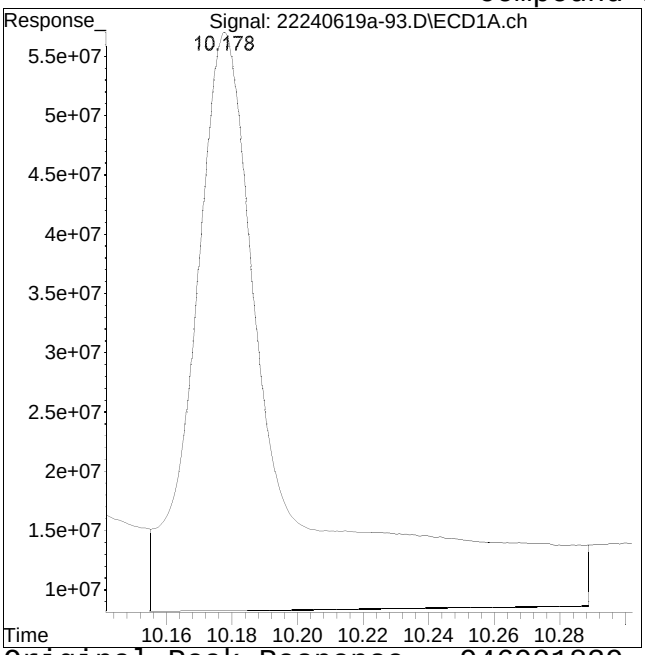


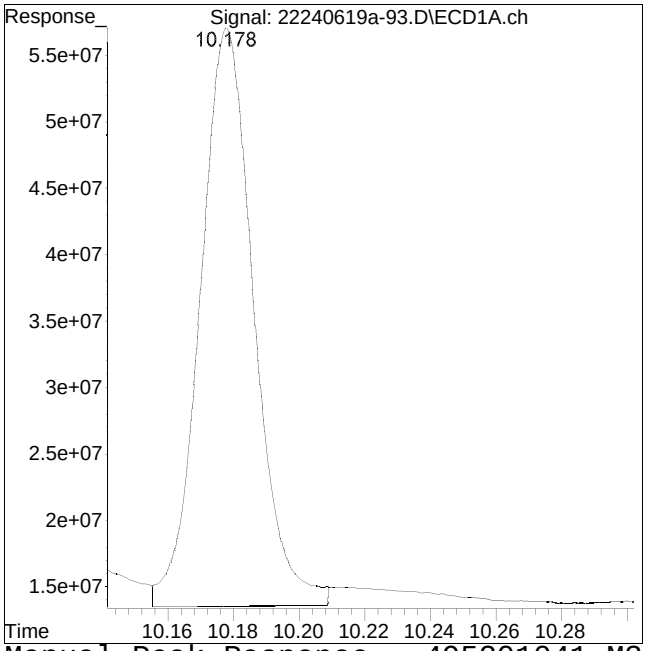
Original Peak Response = 294983626 Manual Peak Response = 157799842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-93.D Operator : pest22:ejl
Date Inj'd : 6/20/2024 5:28 pm Instrument : Pest22
Sample : WG1936519-3,42,, 518 519 5Quant Date : 6/20/2024 6:11 pm

Compound #12: Dinoseb





Original Peak Response = 946991839 Manual Peak Response = 495201041 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 19:39
Operator : pest22:akm
Sample : WG1936519-4,42,, ms
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.531	8.527	853.3E6	888.5E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 626492017				Recovery = 136.21%		
	Standard Area 1 : #2 = 678959739				Recovery = 130.86%		
	System Monitoring Compounds						
3) s	DCAA (surrog	6.986	7.457	342.3E6	386.3E6	0.487M4	0.537
	Spiked Amount 0.500	Range 30 - 150		Recovery =	97.40%	107.40%	
	Target Compounds						
2) t	Dalapon	2.390	2.388	248.9E6	315.4E6	0.345M3	0.449M4
4) t	Dicamba	7.170	7.638	1034.4E6	1034.3E6	0.514M3	0.490M4
5) t	MCPP	7.372	7.750	155.7E6	124.8E6	87.517M4	47.711
6) t	MCPA	7.518	7.977	221.8E6	206.7E6	67.226M4	46.922M4
7) t	Dichloroprop	7.873	8.294	309.9E6	325.3E6	0.470M3	0.477M4
8) t	2,4-D	8.088f	8.569f	388.7E6	448.8E6	0.475M2	0.532
9) t	2,4,5-TP (Si	8.802f	9.225	1357.8E6	1360.0E6	0.459M4	0.447M4
10) t	2,4,5-T	9.024f	9.515f	1431.5E6	1415.7E6	0.492M2	0.480M4
11) t	2,4-DB	9.430f	9.875f	218.8E6	227.5E6	0.485M2	0.455M4
12) t	Dinoseb	10.178	10.098	702.9E6	712.1E6	0.418M4	0.408M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

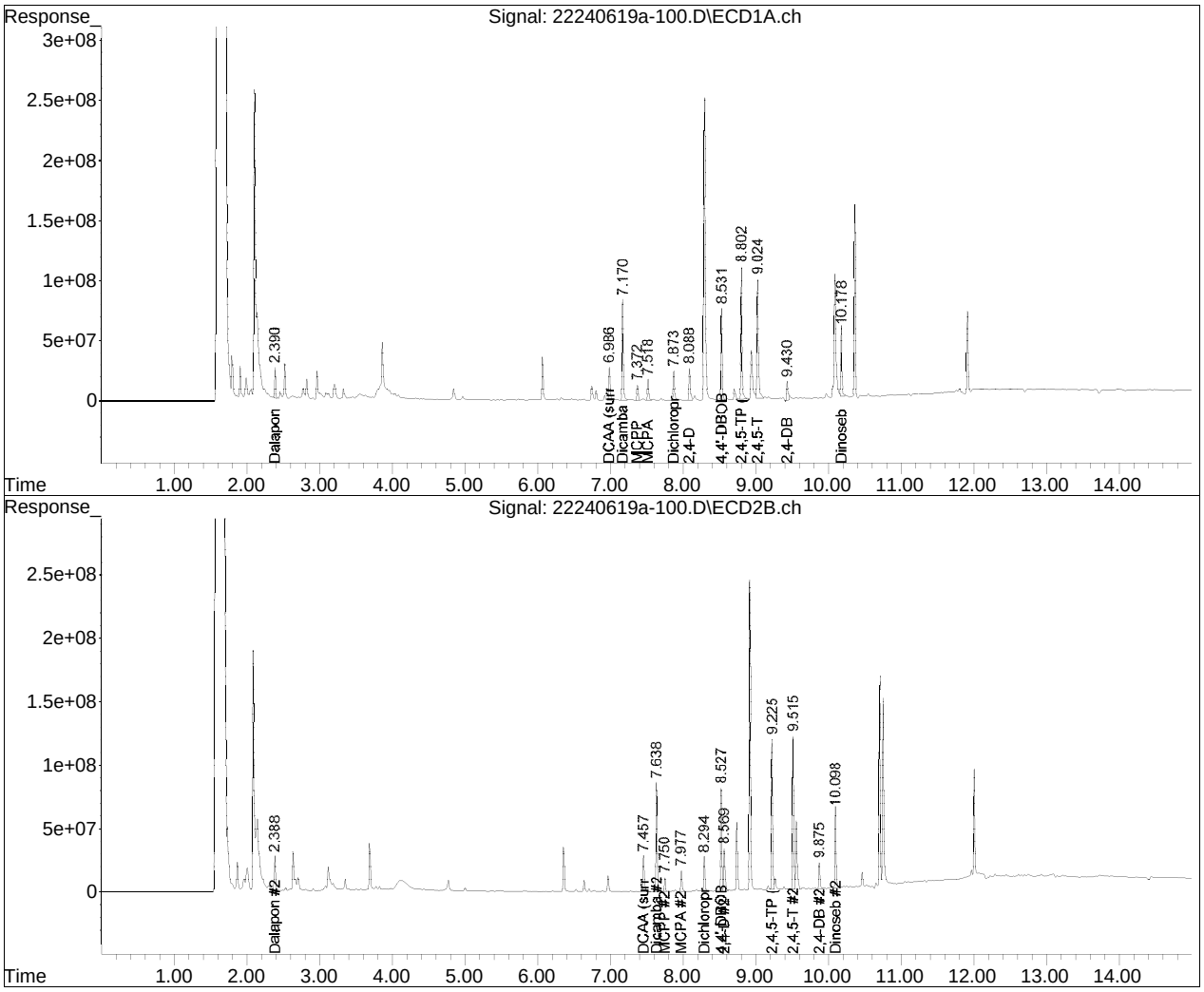
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-87.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-100.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 19:39
Operator : pest22:akm
Sample : WG1936519-4,42,, ms
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

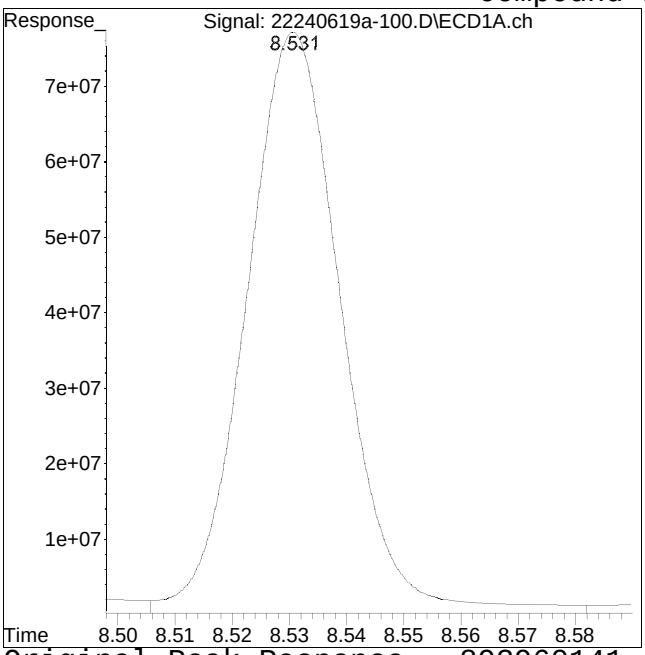
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

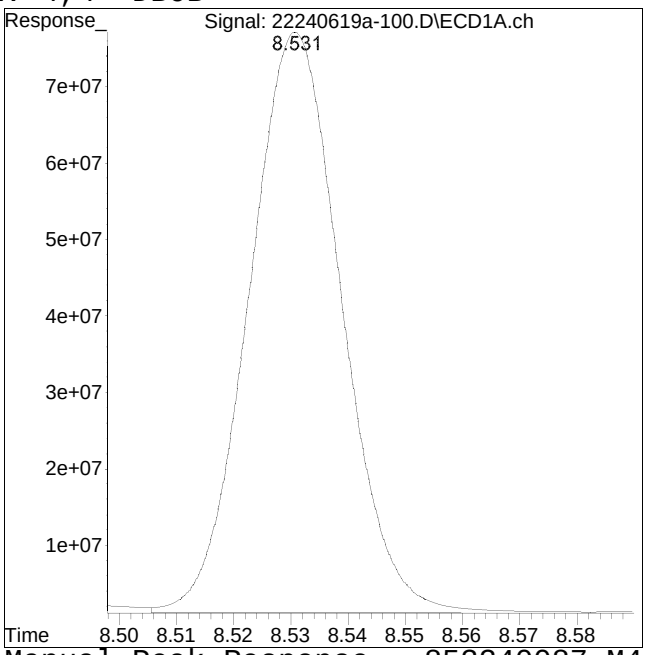


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #1: 4,4'-DBOB



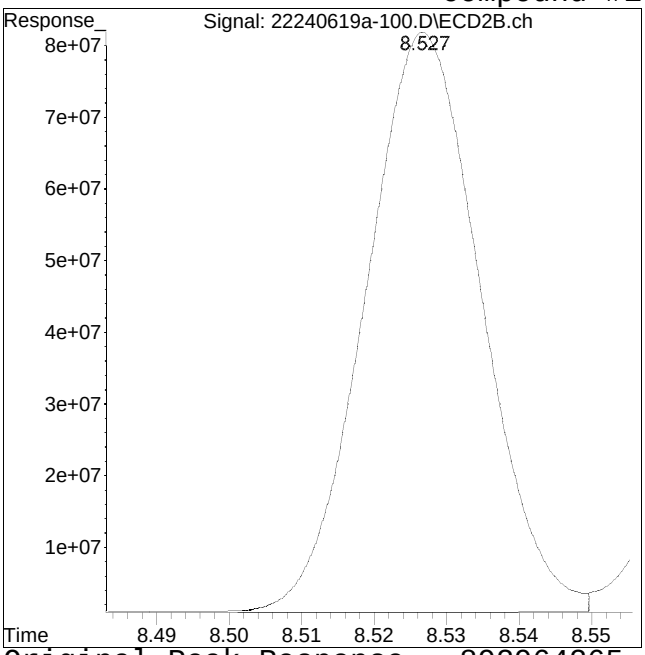


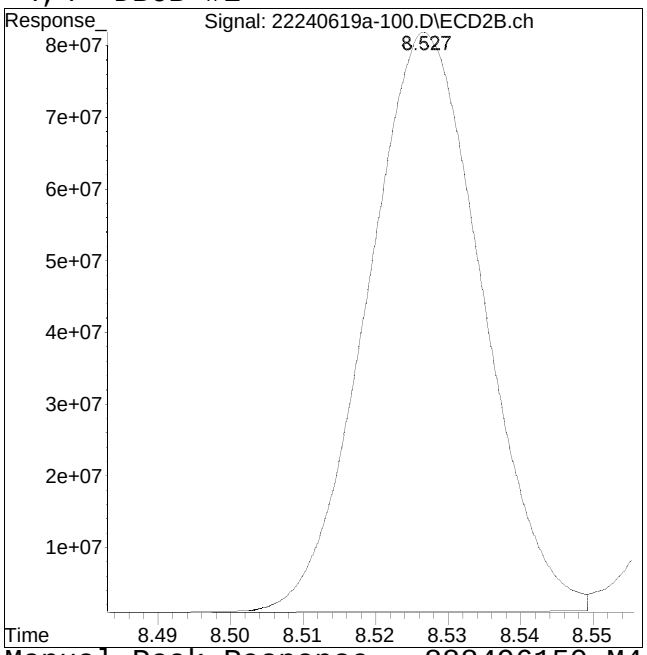
Original Peak Response = 893960141 Manual Peak Response = 853340087 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #14: 4,4'-DBOB #2



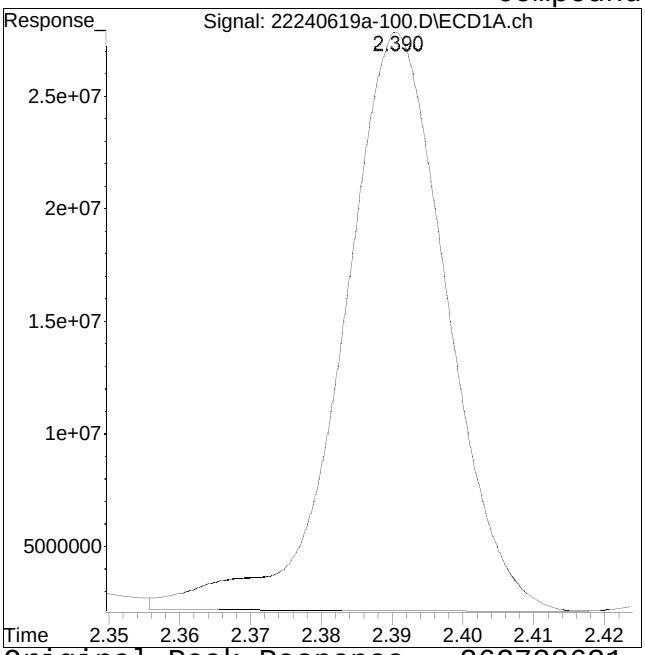


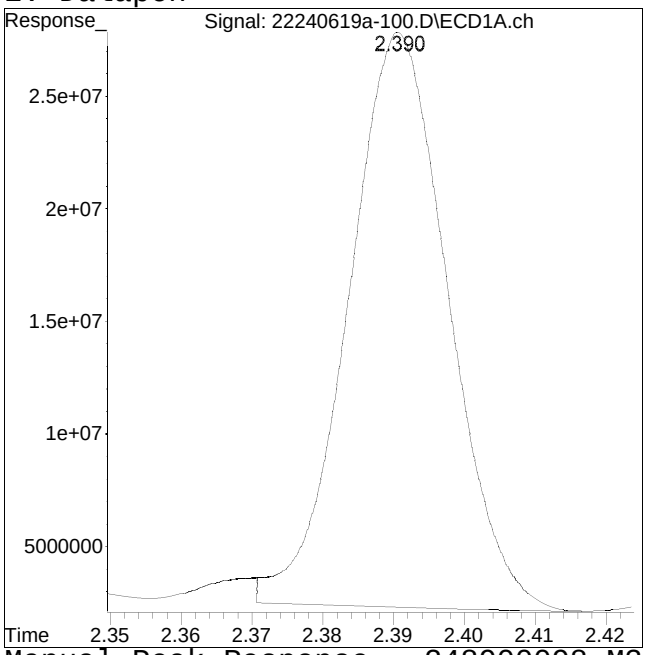
Original Peak Response = 892964265 Manual Peak Response = 888496150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #2: Dalapon



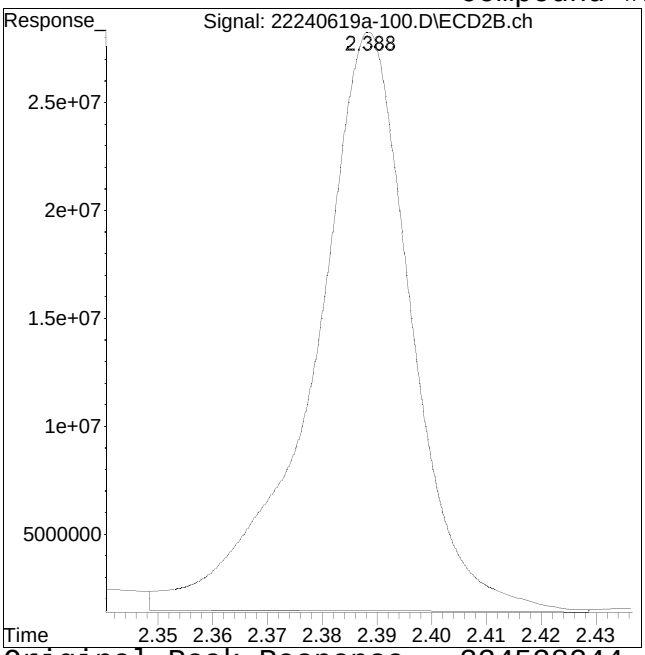


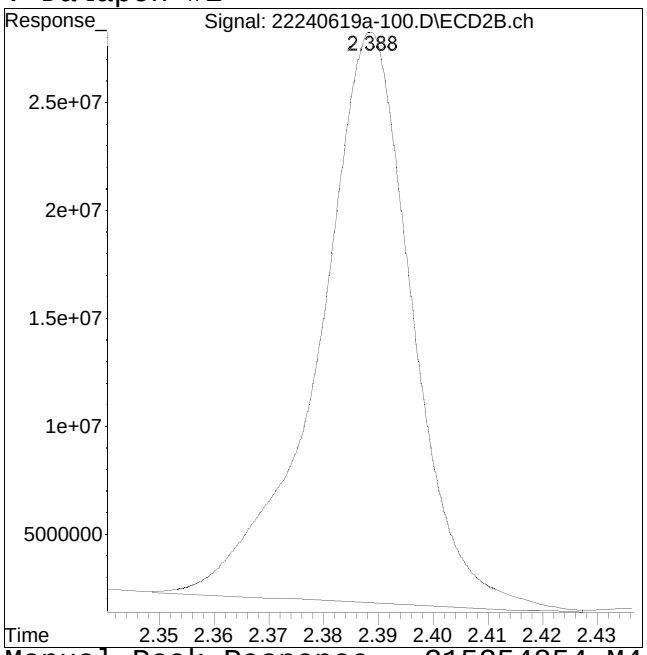
Original Peak Response = 262722631 Manual Peak Response = 248900098 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #15: Dalapon #2



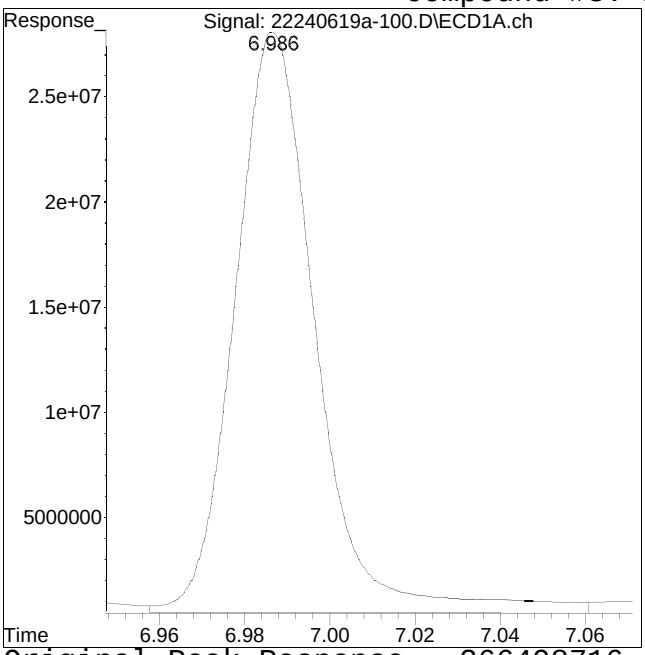


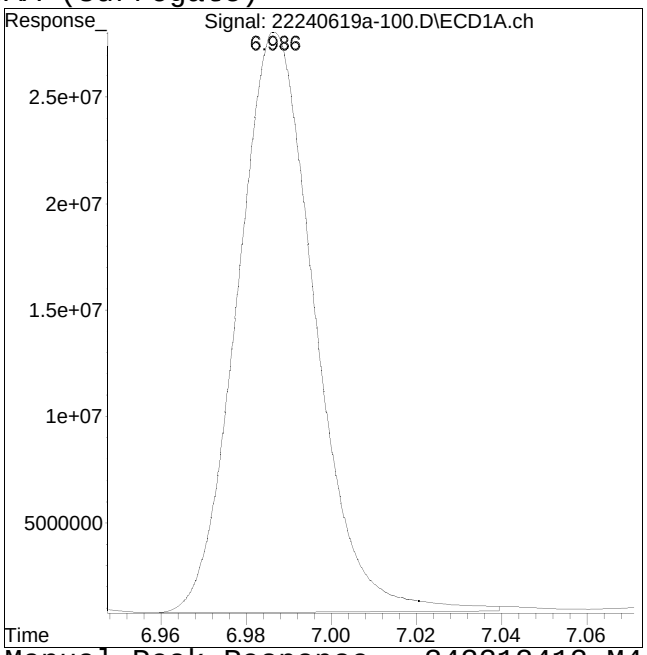
Original Peak Response = 334538244 Manual Peak Response = 315354854 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #3: DCAA (surrogate)



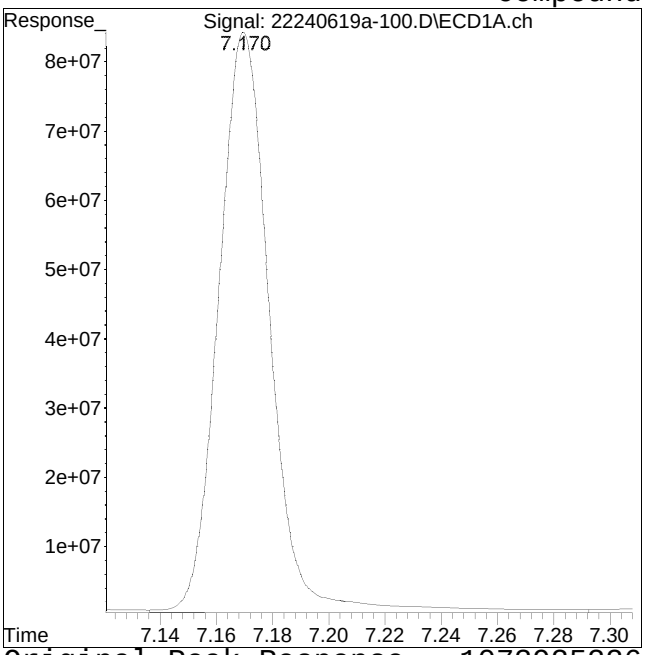


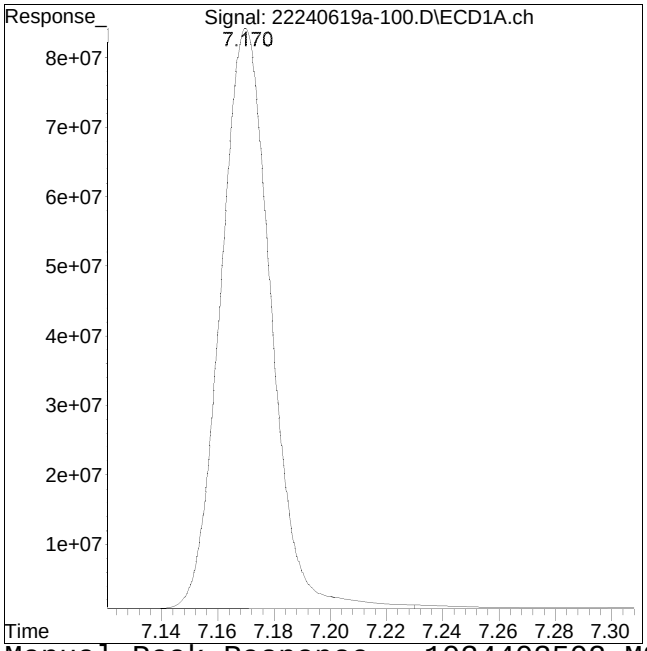
Original Peak Response = 366498716 Manual Peak Response = 342312412 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #4: Dicamba



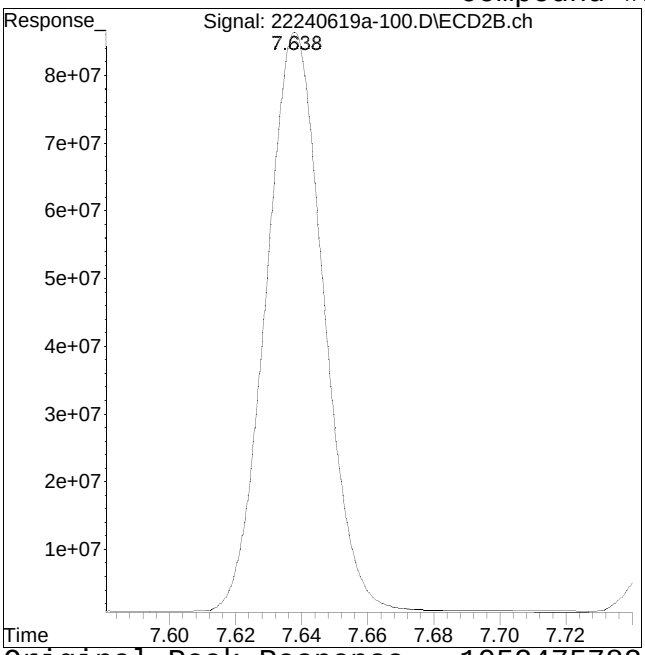


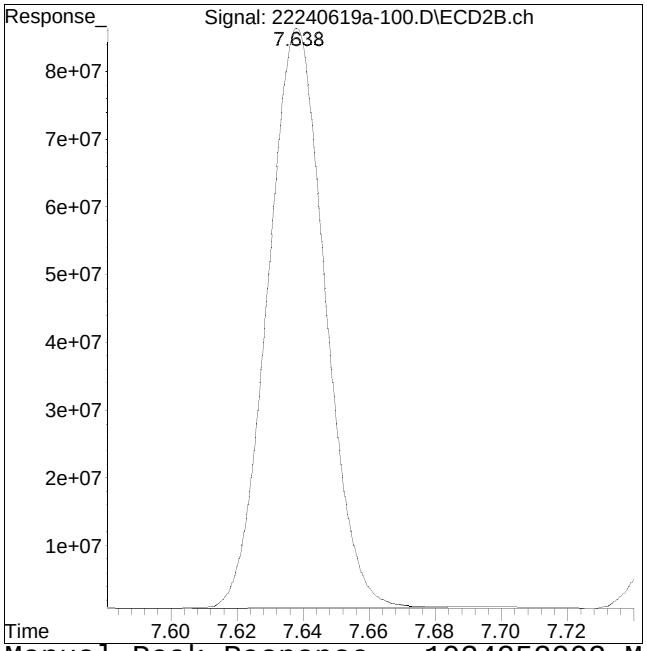
Original Peak Response = 1073925226 Manual Peak Response = 1034403502 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #17: Dicamba #2



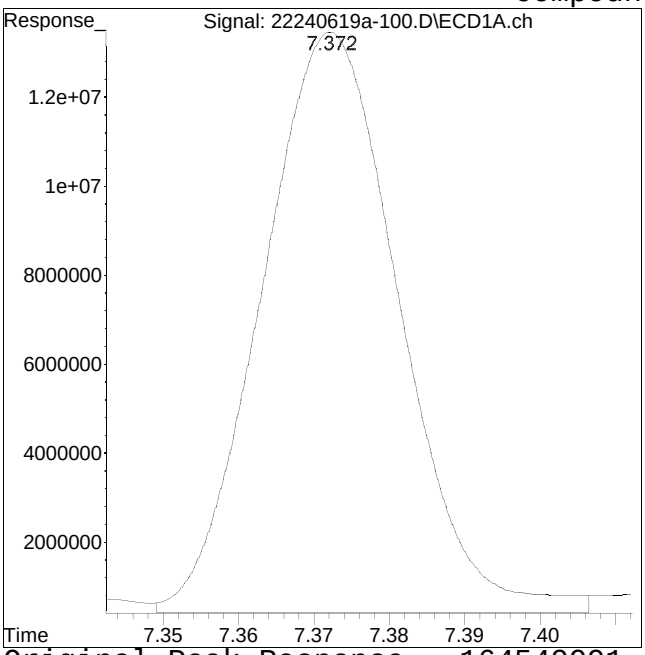


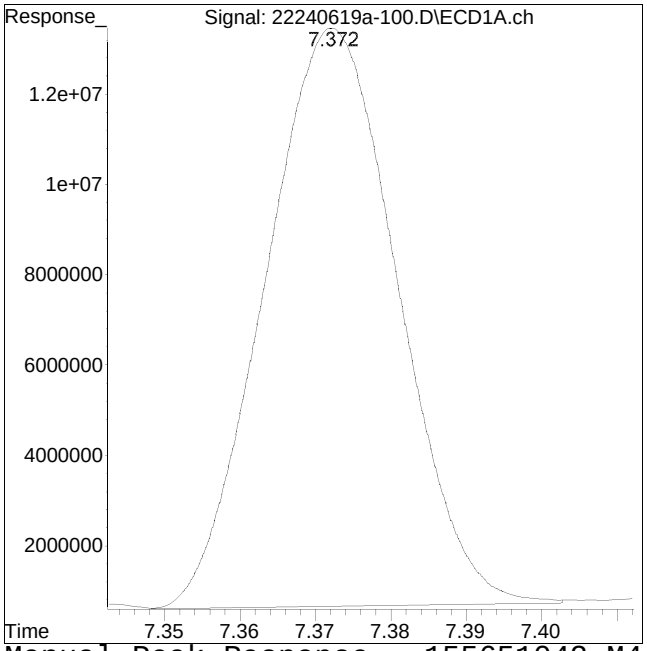
Original Peak Response = 1052475782 Manual Peak Response = 1034252902 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #5: MCPP



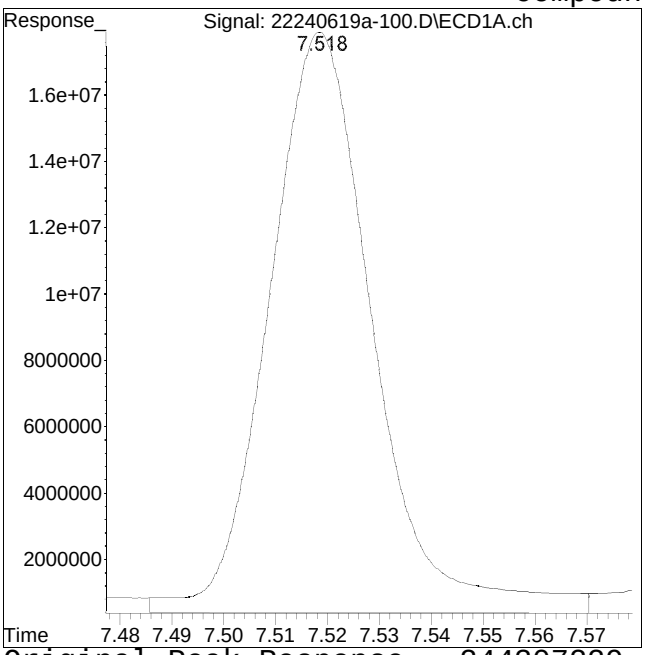


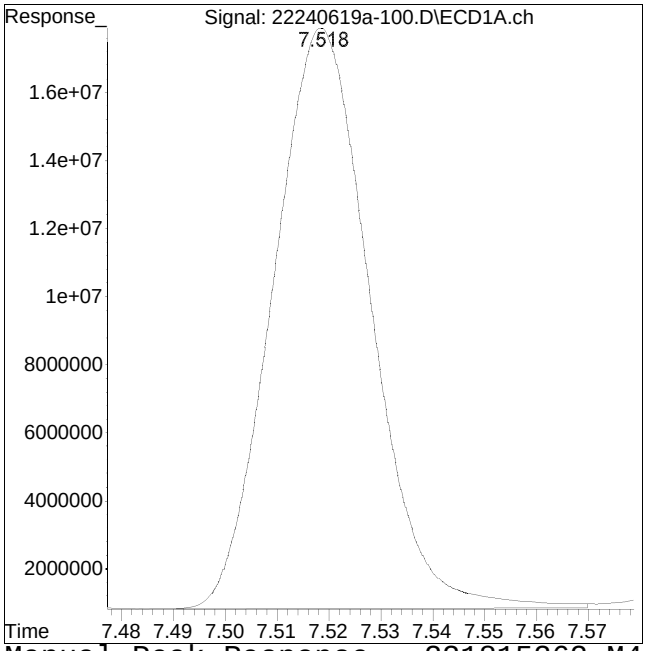
Original Peak Response = 164549991 Manual Peak Response = 155651042 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #6: MCPA



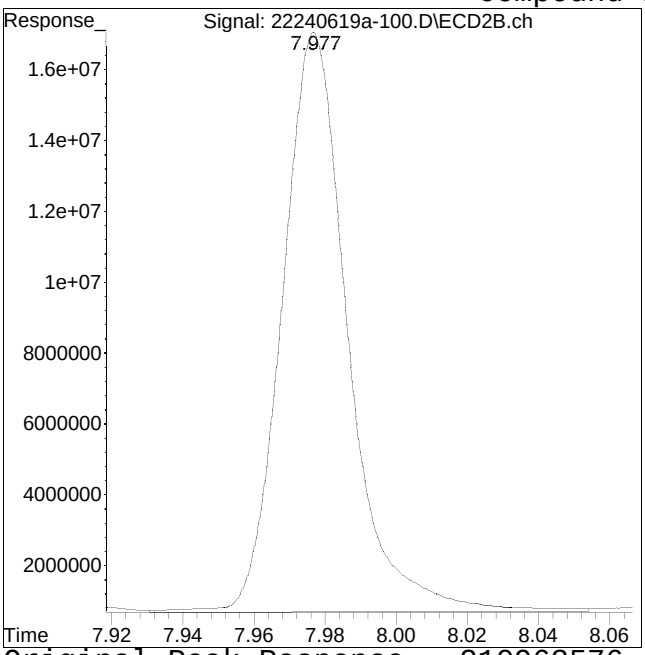


Original Peak Response = 244307229 Manual Peak Response = 221815262 M4
M4 = Poor automated baseline construction.

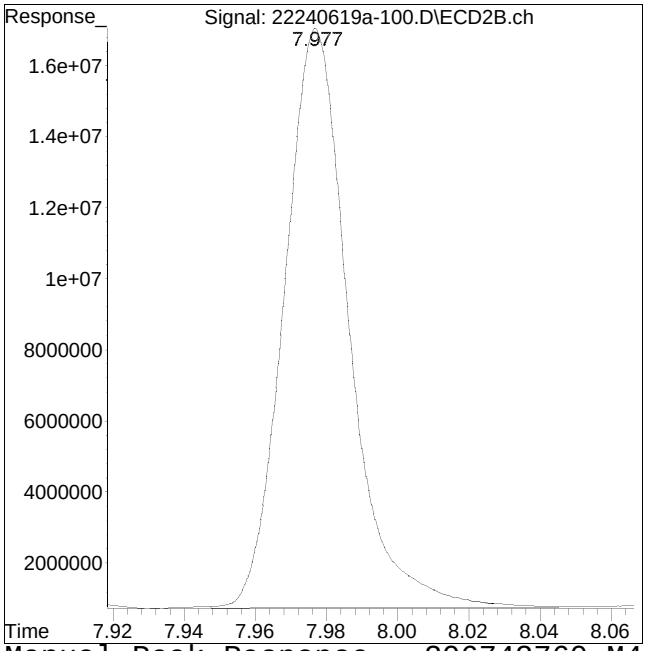
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #19: MCPA #2



Original Peak Response = 210963576



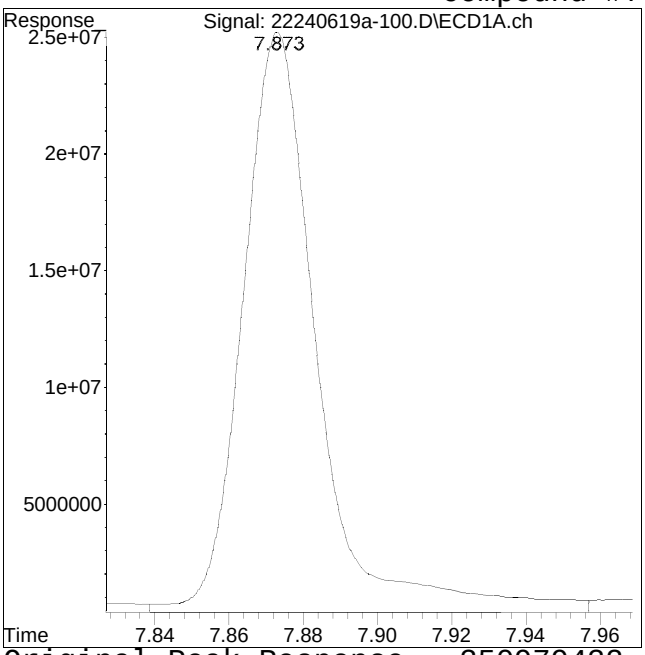
Manual Peak Response = 206743760 M4

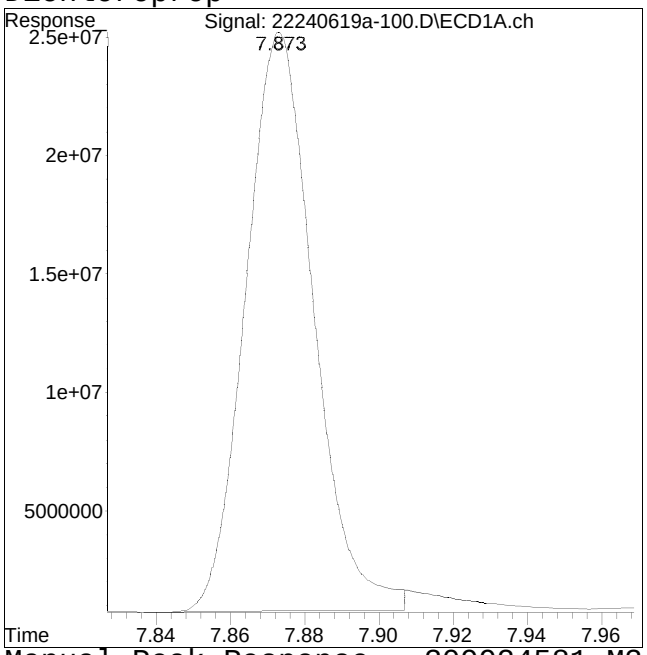
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #7: Dichloroprop



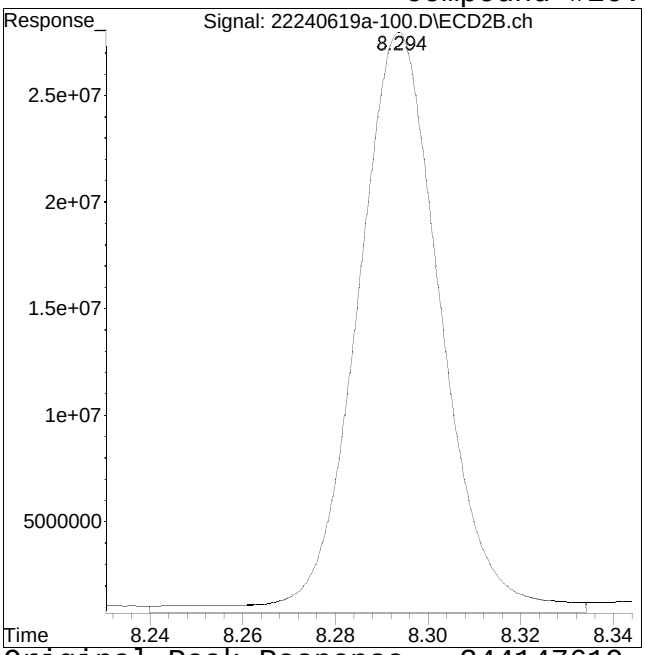


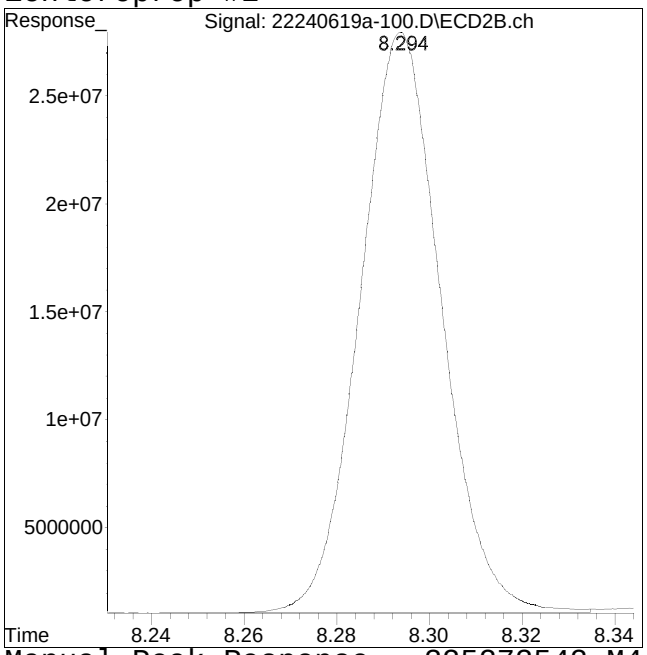
Original Peak Response = 350979432 Manual Peak Response = 309924581 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #20: Dichloroprop #2



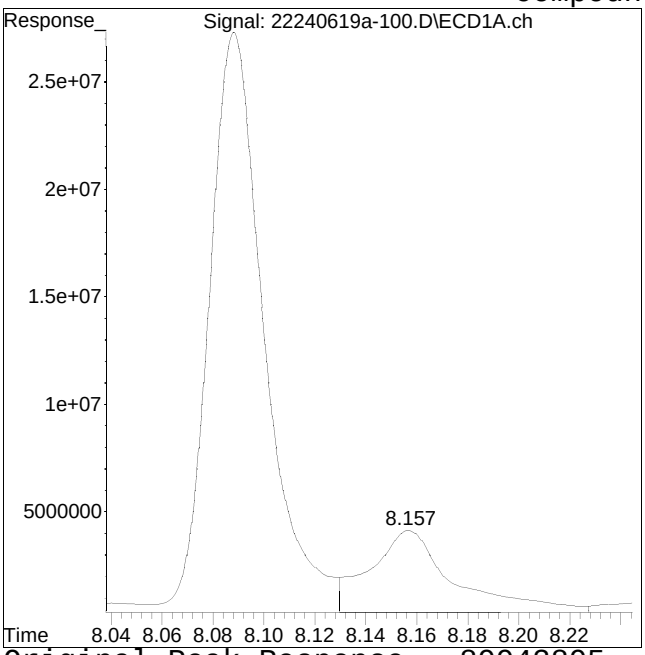


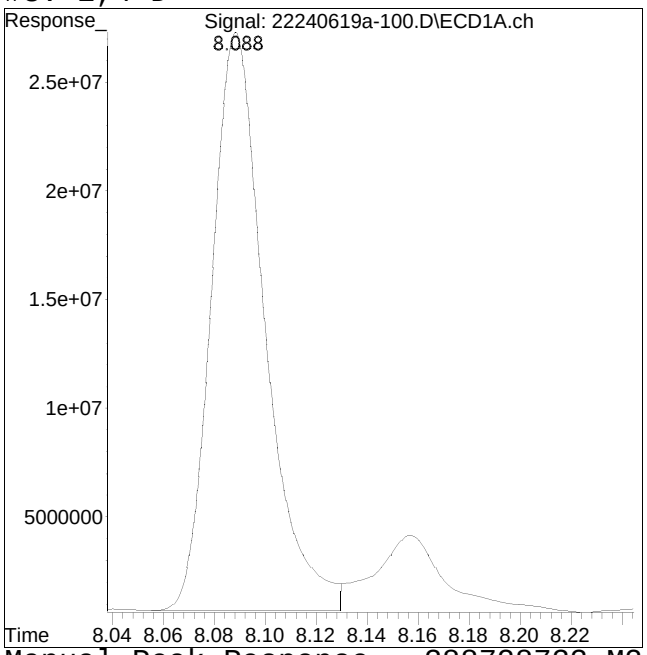
Original Peak Response = 344147619 Manual Peak Response = 325273542 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #8: 2,4-D



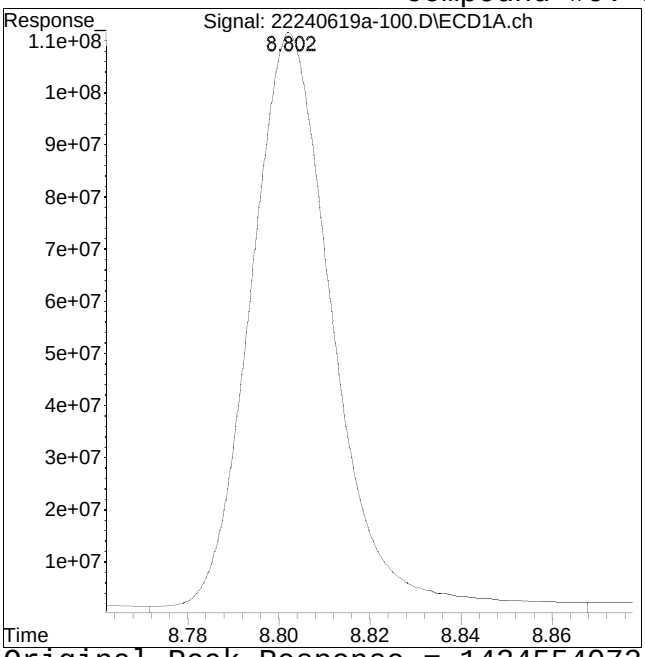


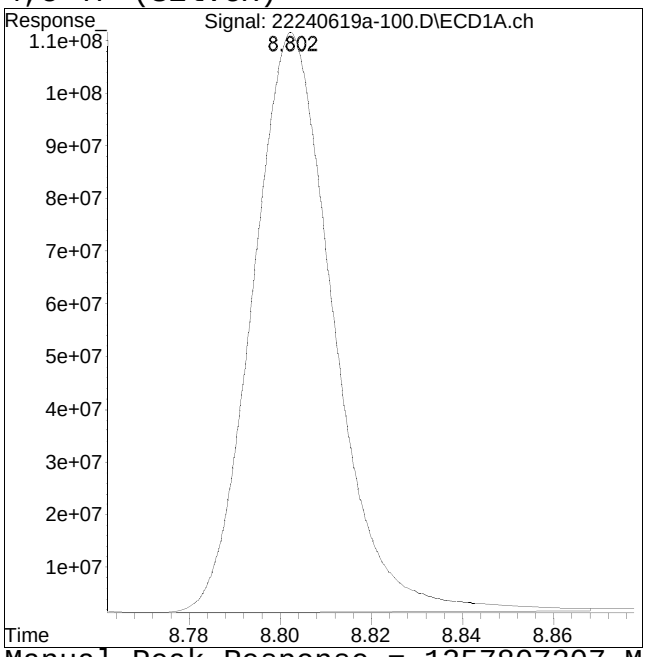
Original Peak Response = 89943895 Manual Peak Response = 388728733 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #9: 2,4,5-TP (Silvex)



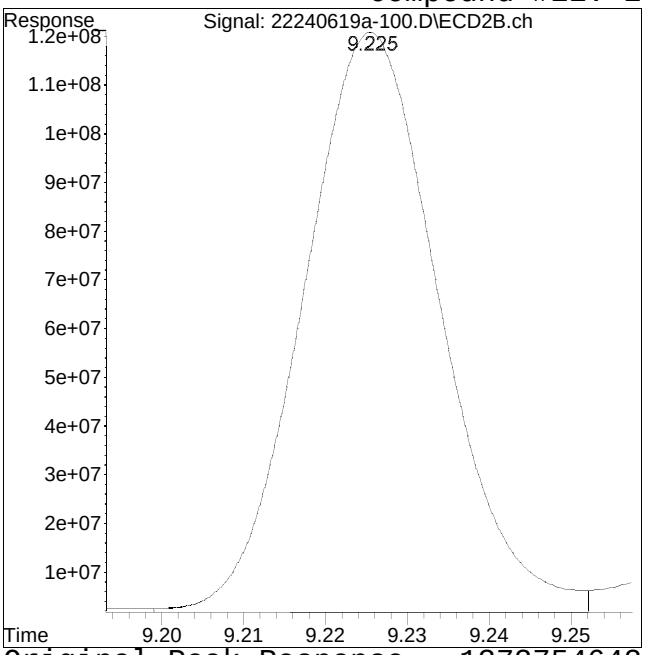


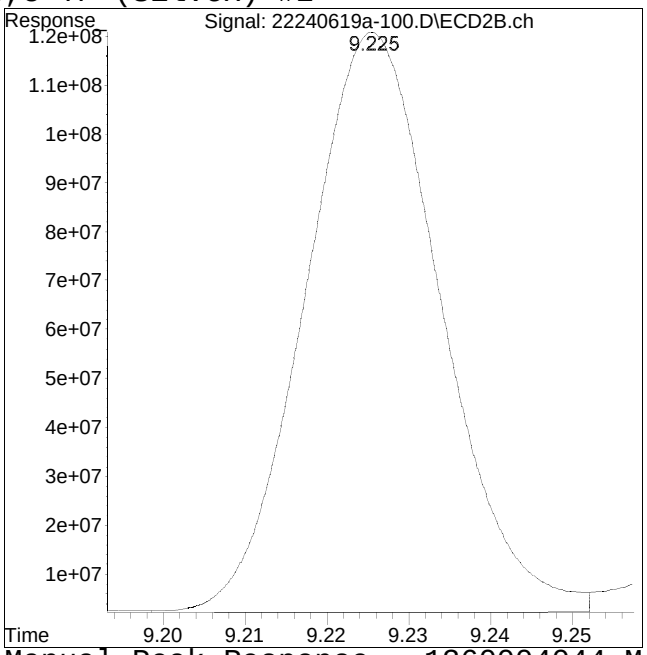
Original Peak Response = 1434554072 Manual Peak Response = 1357807307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #22: 2,4,5-TP (Silvex) #2



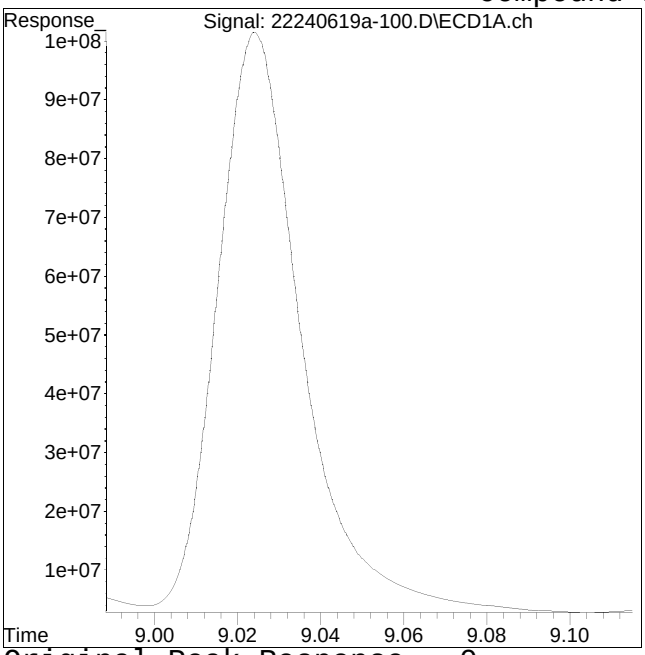


Original Peak Response = 1373754642 Manual Peak Response = 1360004044 M4
M4 = Poor automated baseline construction.

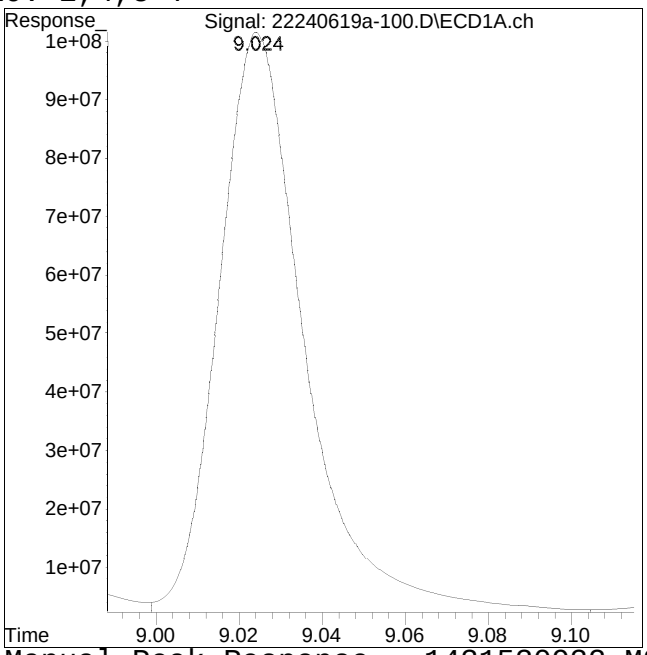
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #10: 2,4,5-T



Original Peak Response = 0



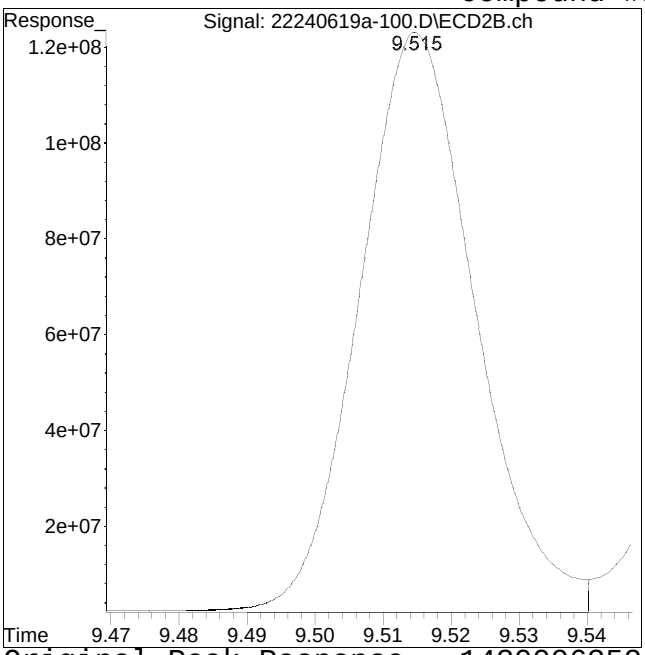
Manual Peak Response = 1431530932 M2

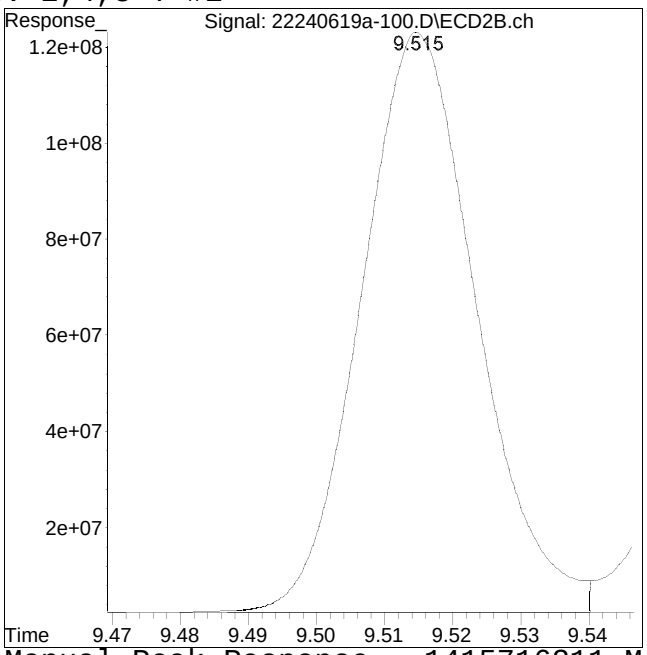
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #23: 2,4,5-T #2



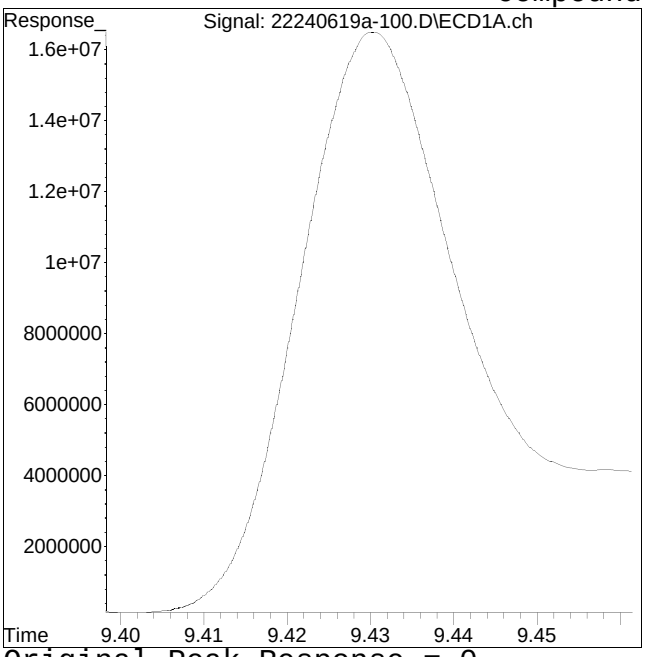


Original Peak Response = 1430006352 Manual Peak Response = 1415716211 M4
M4 = Poor automated baseline construction.

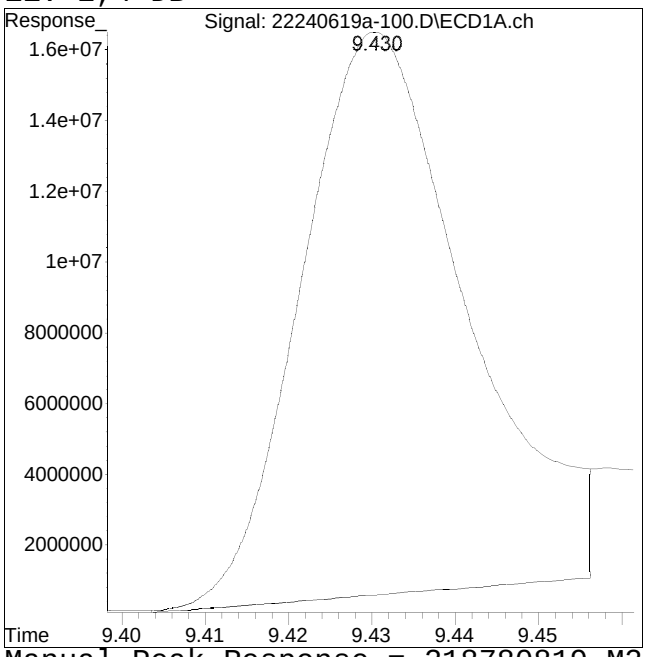
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #11: 2,4-DB



Original Peak Response = 0



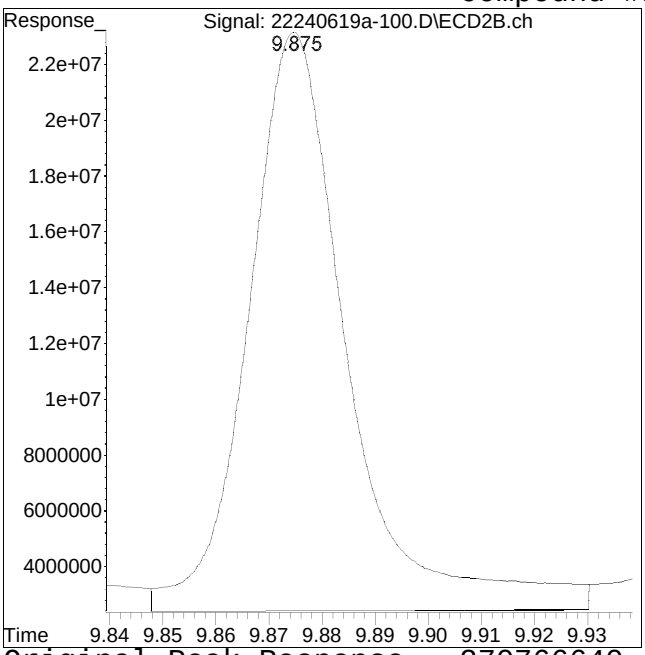
Manual Peak Response = 218780819 M2

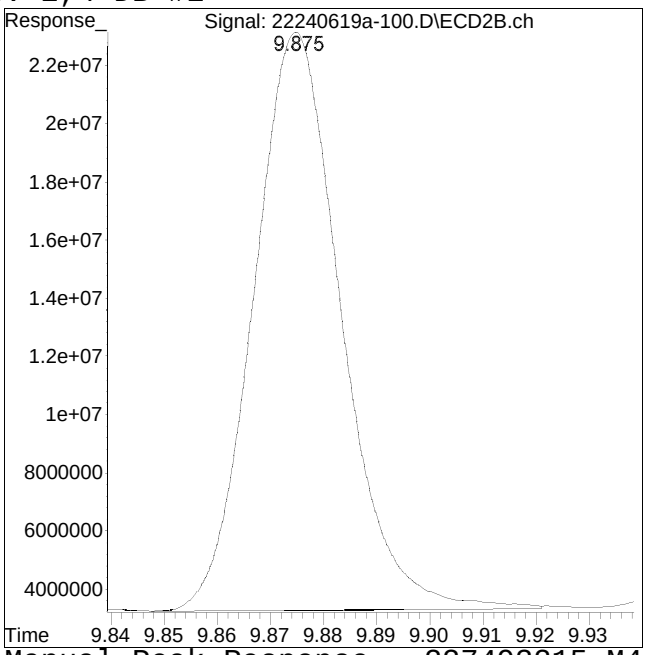
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #24: 2,4-DB #2



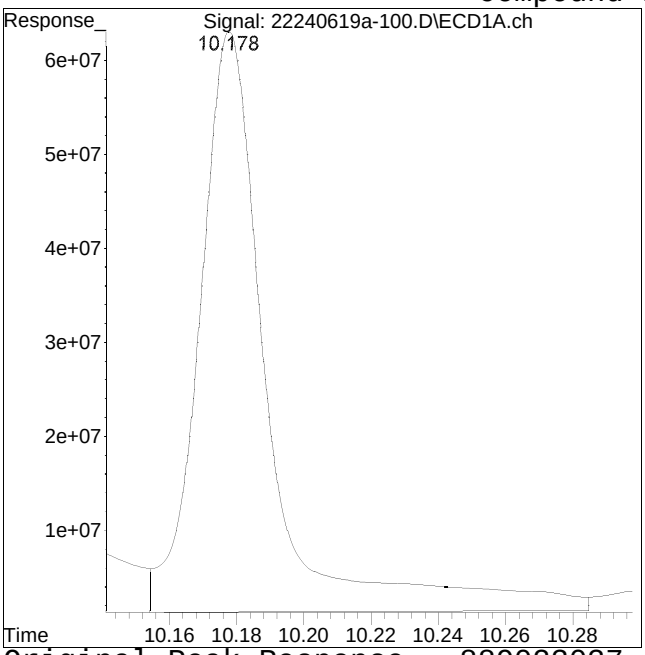


Original Peak Response = 270766640 Manual Peak Response = 227493215 M4
M4 = Poor automated baseline construction.

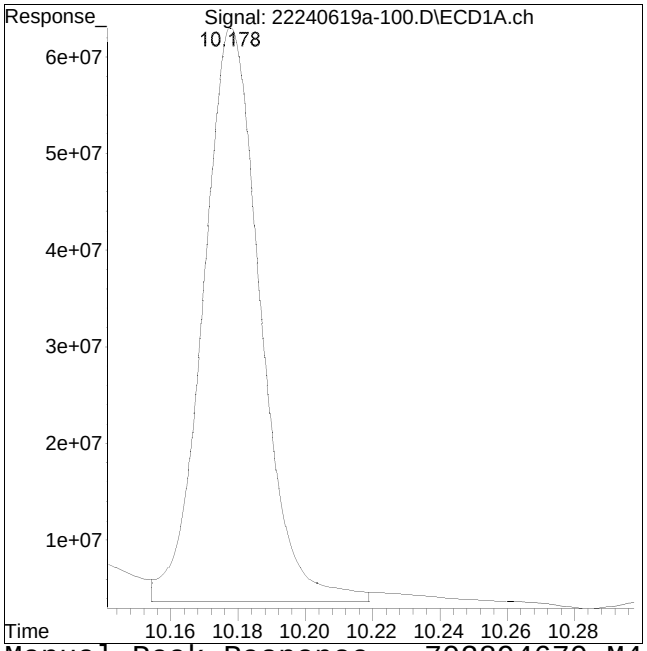
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #12: Dinoseb



Original Peak Response = 889023037



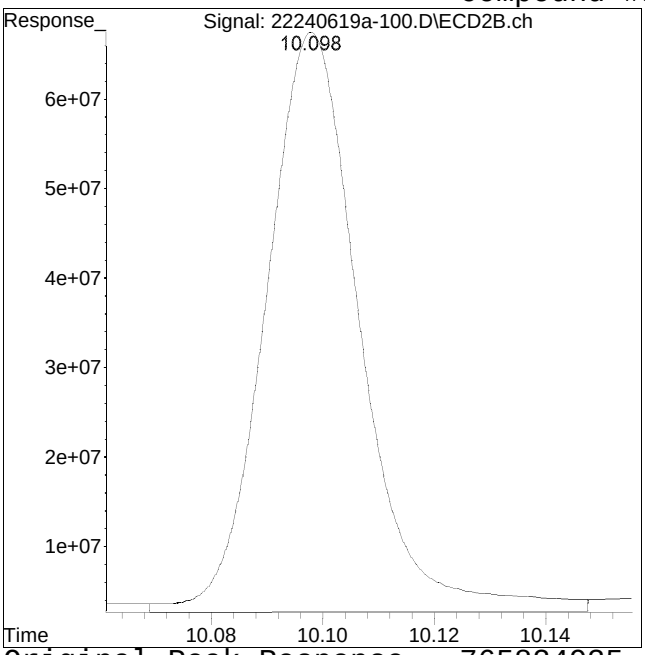
Manual Peak Response = 702894670 M4

M4 = Poor automated baseline construction.

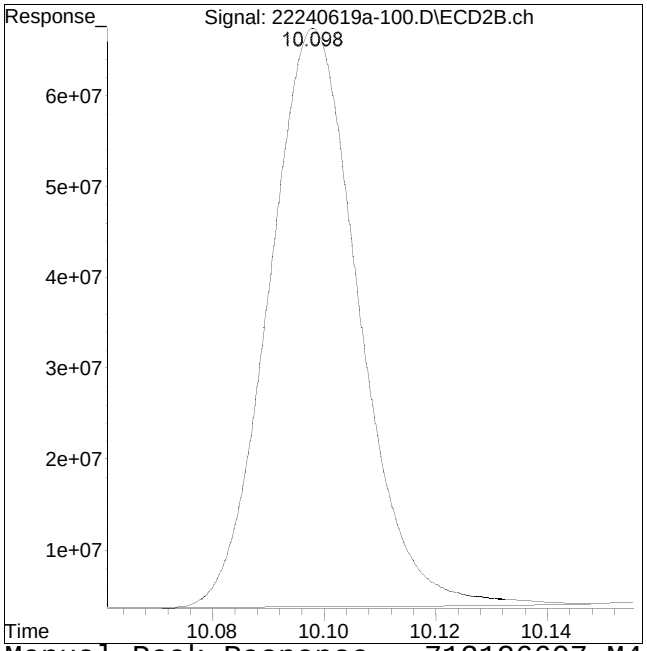
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-100.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:39 Instrument : Pest22
Sample : WG1936519-4,42,, ms Quant Date : 6/21/2024 7:42 am

Compound #25: Dinoseb #2



Original Peak Response = 765824935



Manual Peak Response = 712126607 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 19:57
Operator : pest22:akm
Sample : WG1936519-5,42,, msd
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:44 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-87.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.531	8.527	792.2E6	824.4E6	0.250M4	0.250
	Standard Area 1 : #1 = 626492017				Recovery = 126.45%		
	Standard Area 1 : #2 = 678959739				Recovery = 121.42%		
	System Monitoring Compounds						
3) s	DCAA (surrog	6.987	7.457	279.7E6	311.4E6	0.429M4	0.466
	Spiked Amount 0.500	Range 30 - 150		Recovery = 85.80%		93.20%	
	Target Compounds						
2) t	Dalapon	2.392	2.389	258.6E6	300.5E6	0.386M3	0.462M4
4) t	Dicamba	7.170	7.638	872.4E6	893.4E6	0.467M4	0.456
5) t	MCPP	7.372	7.750	130.3E6	101.7E6	78.928M4	41.897M4
6) t	MCPA	7.518	7.976	184.2E6	171.1E6	60.145M4	41.851M4
7) t	Dichloroprop	7.873	8.293	256.2E6	272.2E6	0.419M3	0.430M4
8) t	2,4-D	8.088f	8.570f	326.6E6	378.6E6	0.429M2	0.484
9) t	2,4,5-TP (Si	8.803f	9.226	1145.7E6	1214.8E6	0.417M4	0.430M4
10) t	2,4,5-T	9.025f	9.515f	1218.8E6	1204.3E6	0.451M2	0.440M4
11) t	2,4-DB	9.432f	9.875f	189.2E6	182.2E6	0.452M2	0.393M4
12) t	Dinoseb	10.179	10.098	577.0E6	579.6E6	0.369M4	0.358M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

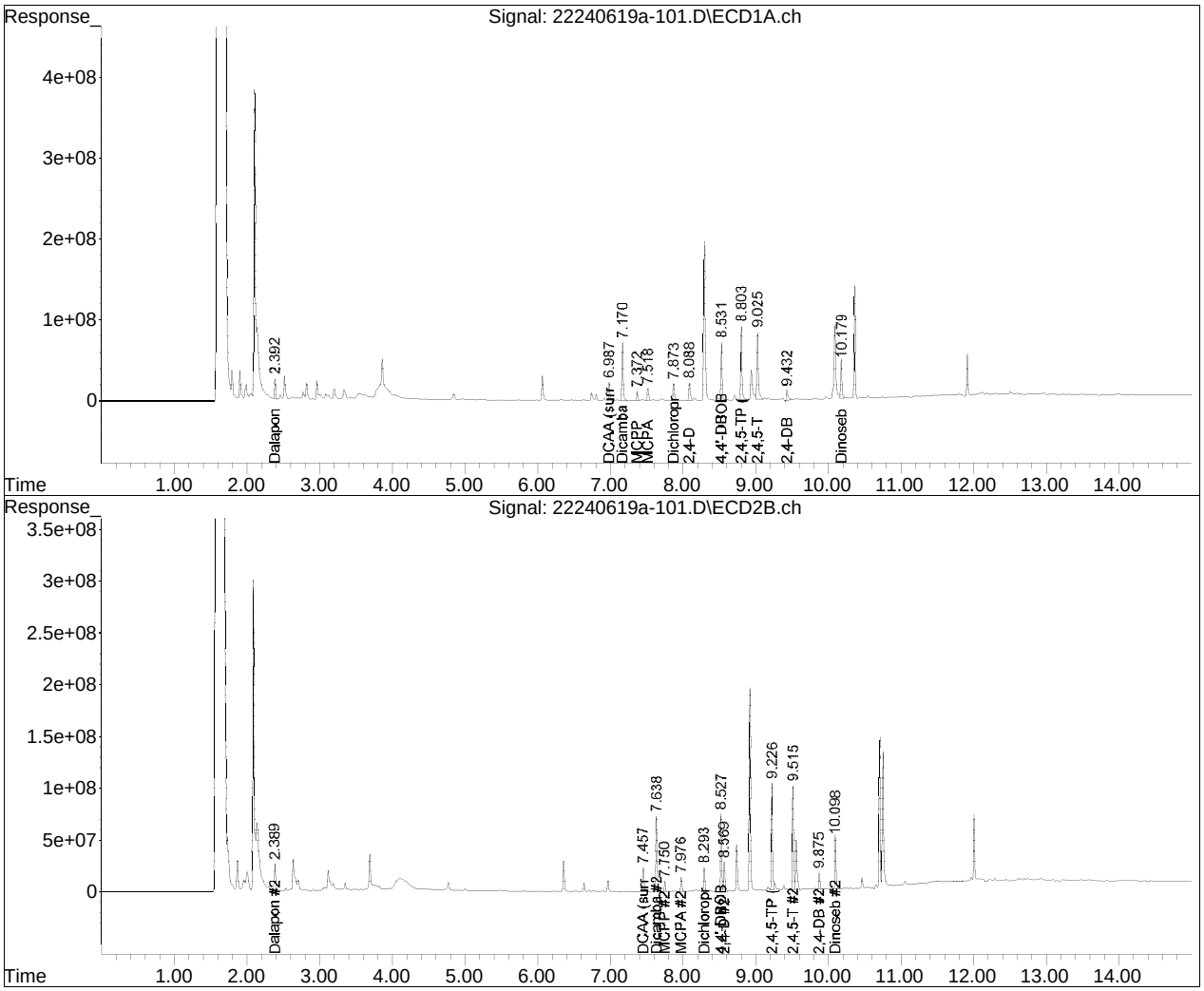
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-87.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-101.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2024 19:57
Operator : pest22:akm
Sample : WG1936519-5,42,, msd
Misc : wg1936304,WG1936519,ical21040
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 21 07:42:44 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Thu Jun 20 16:30:12 2024
Response via : Initial Calibration
Integrator: ChemStation

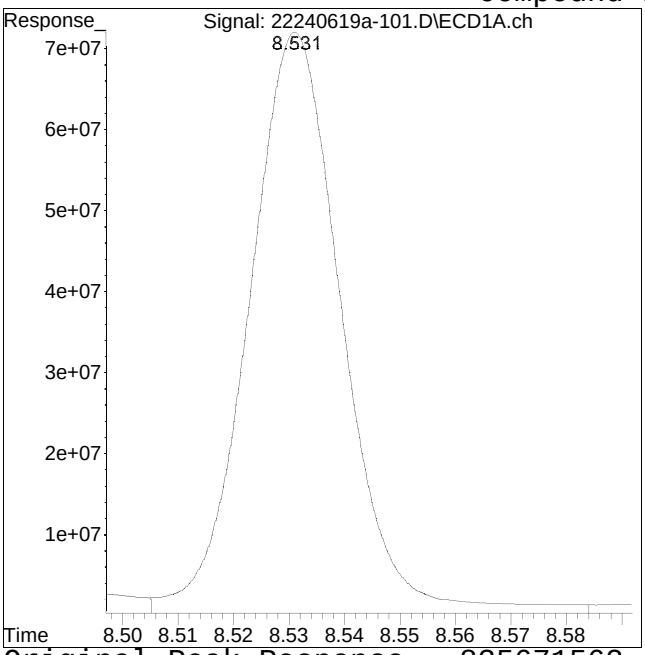
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



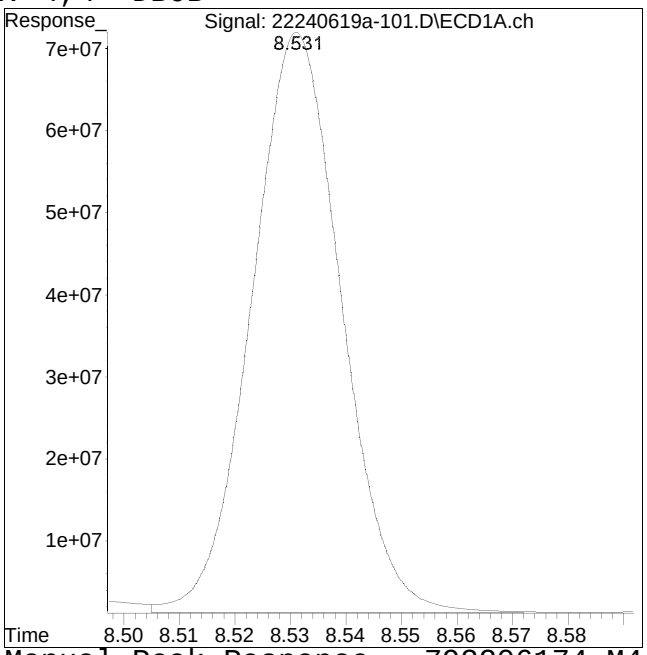
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #1: 4,4'-DBOB



Original Peak Response = 835671562



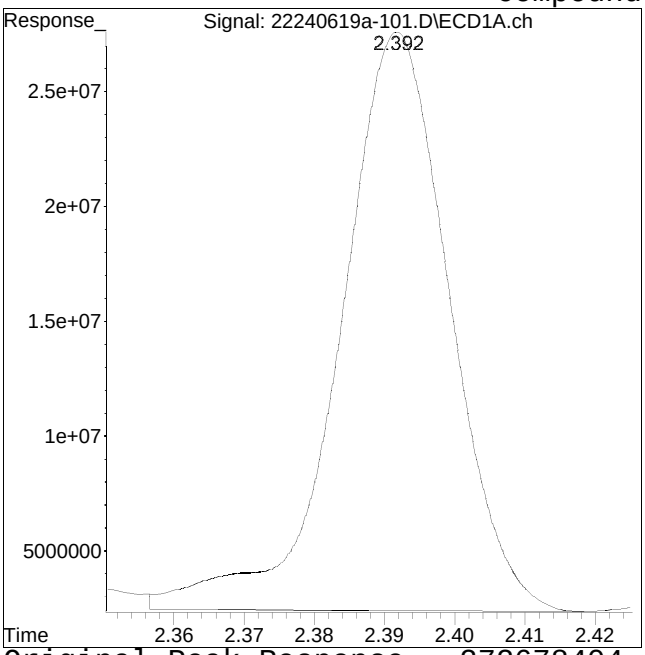
Manual Peak Response = 792206174 M4

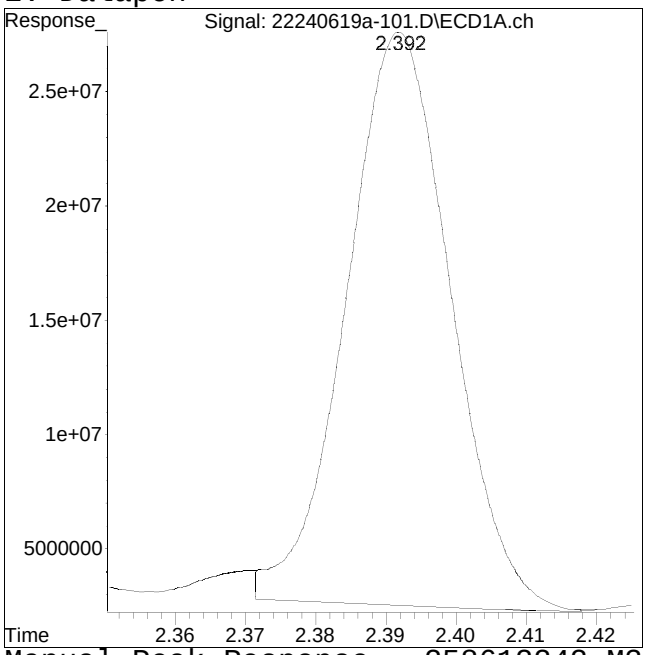
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #2: Dalapon



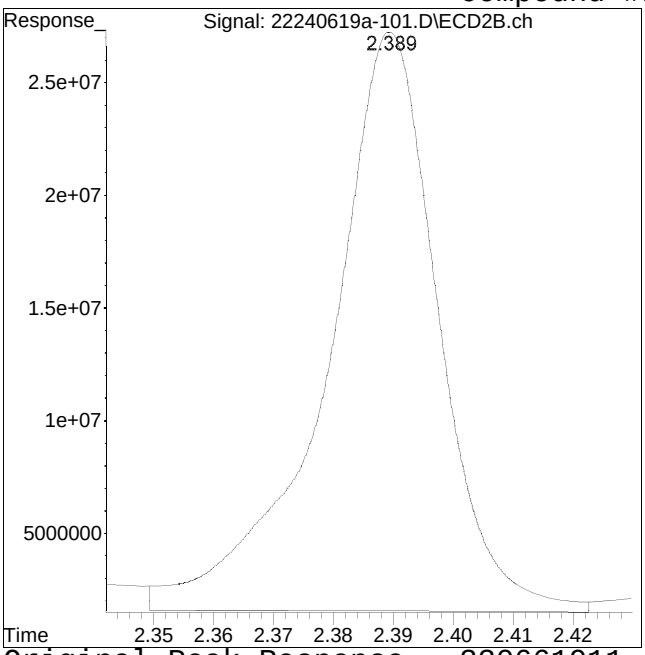


Original Peak Response = 272678404 Manual Peak Response = 258612242 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

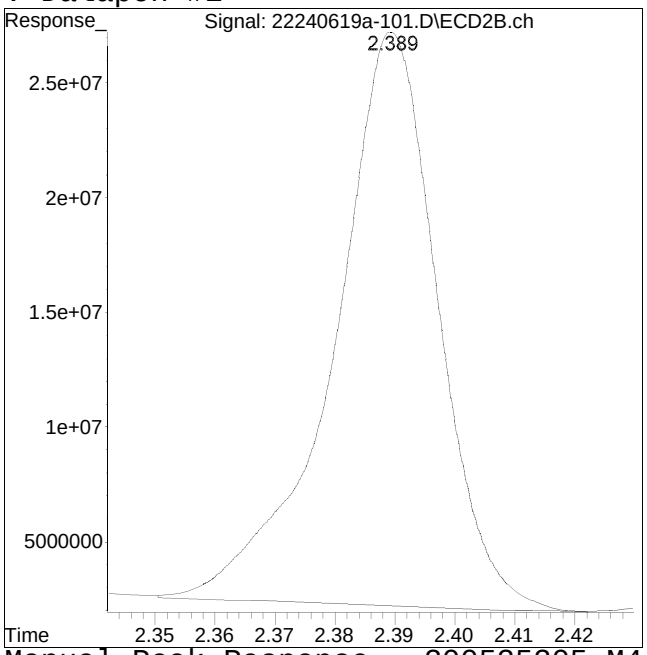
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #15: Dalapon #2



Original Peak Response = 330661911



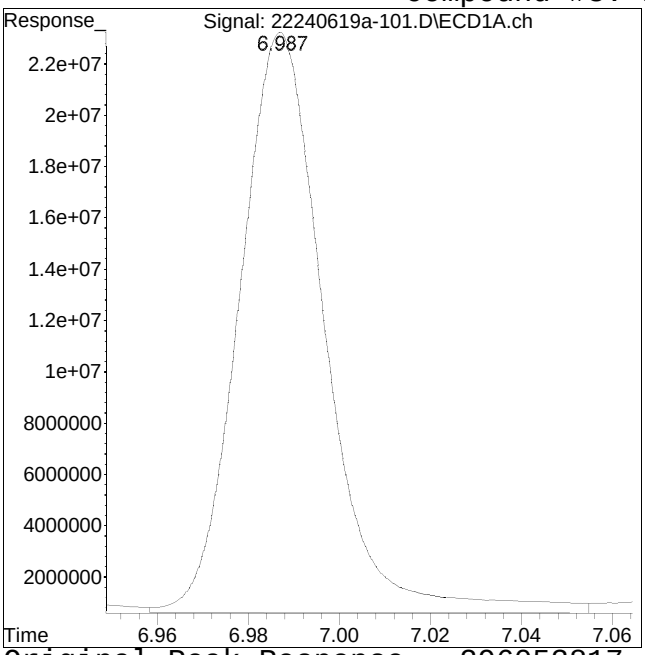
Manual Peak Response = 300535305 M4

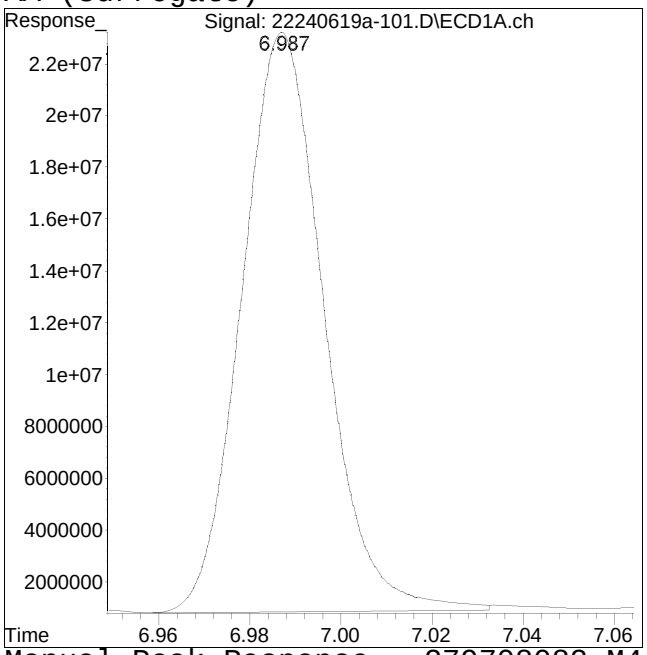
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #3: DCAA (surrogate)



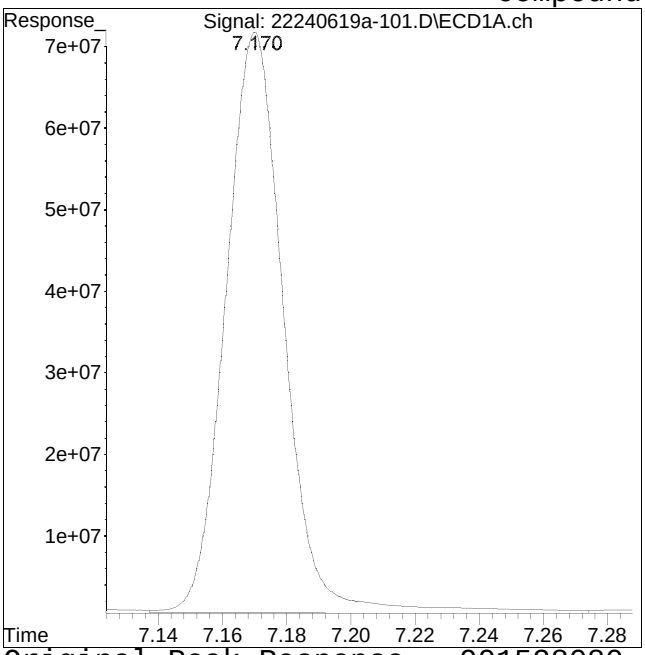


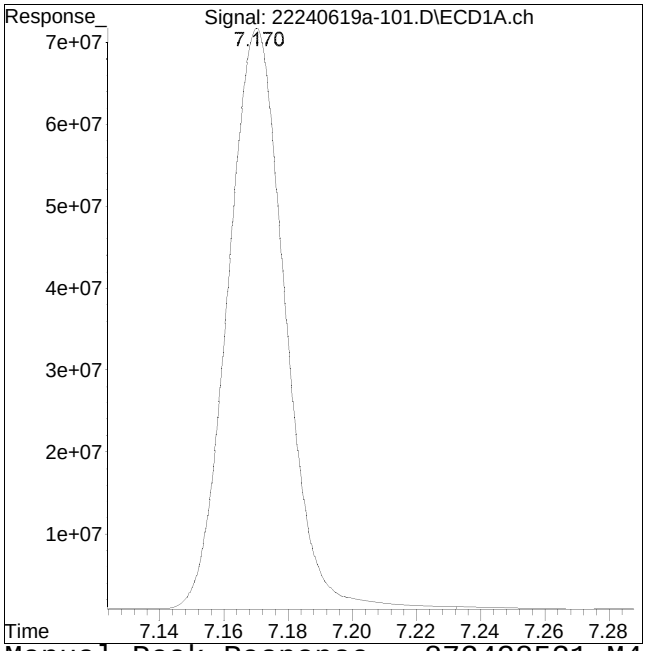
Original Peak Response = 296053817 Manual Peak Response = 279708082 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #4: Dicamba



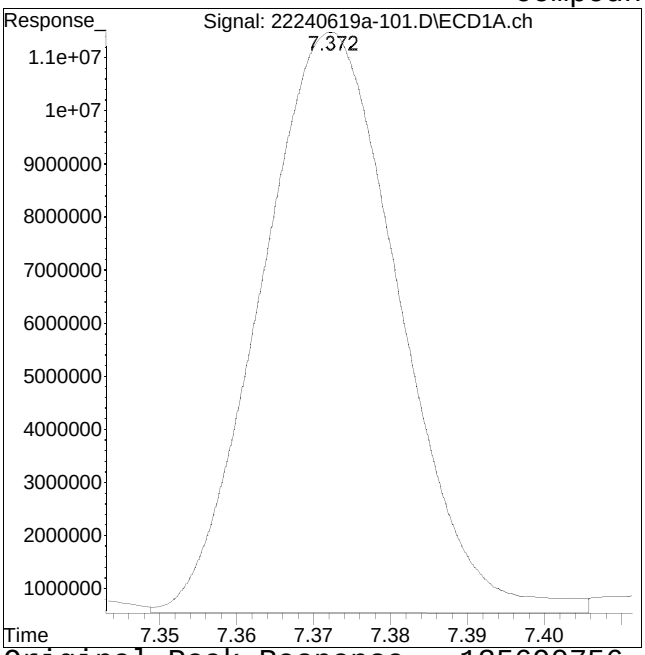


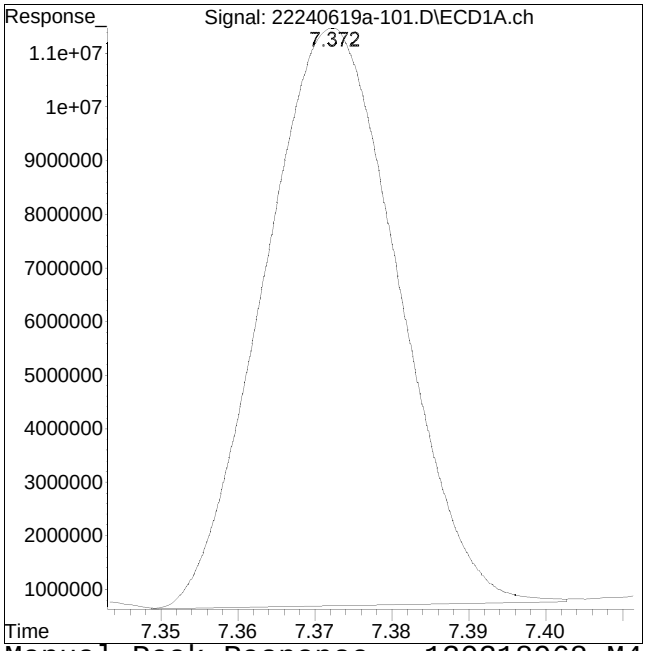
Original Peak Response = 901528080 Manual Peak Response = 872438531 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #5: MCPP



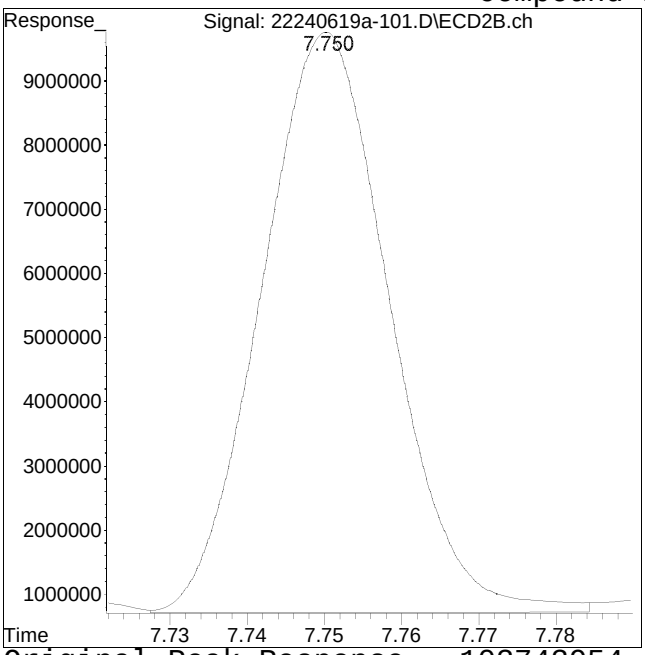


Original Peak Response = 135690756 Manual Peak Response = 130318968 M4
M4 = Poor automated baseline construction.

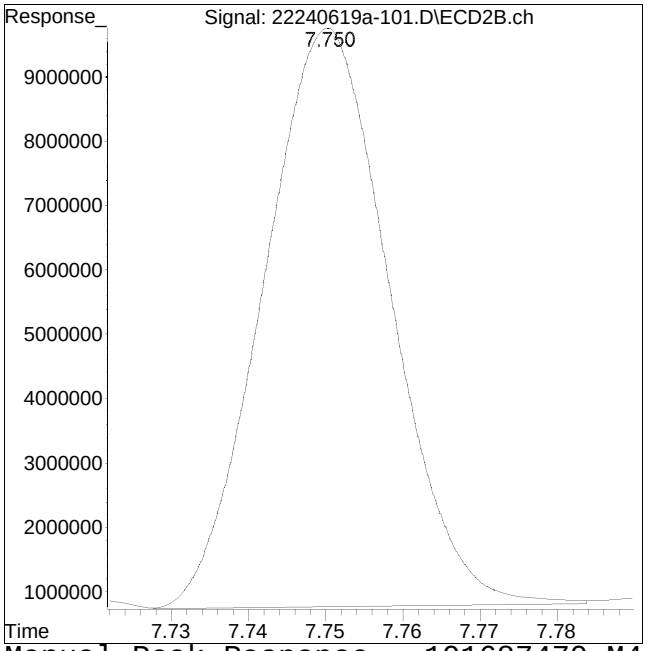
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #18: MCPP #2



Original Peak Response = 103743954



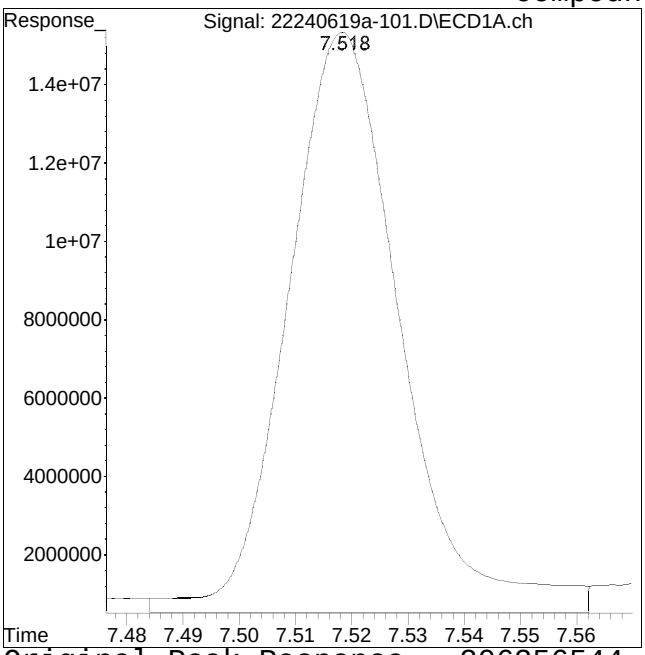
Manual Peak Response = 101687470 M4

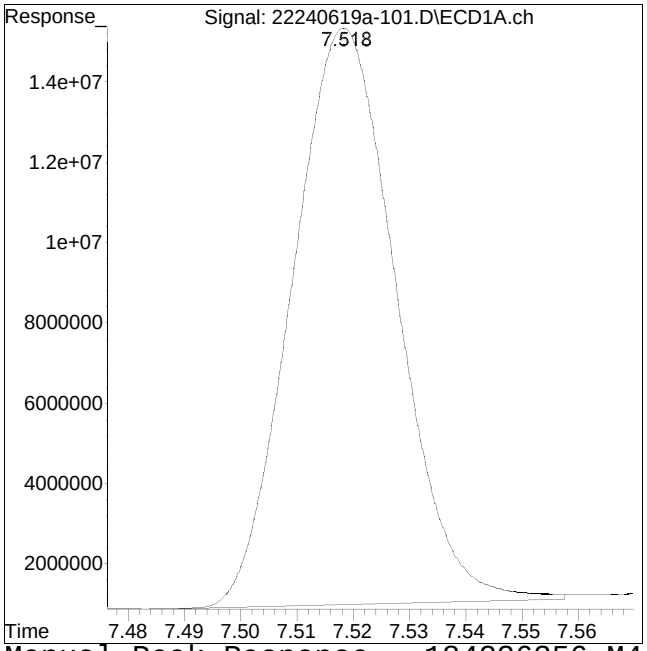
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #6: MCPA



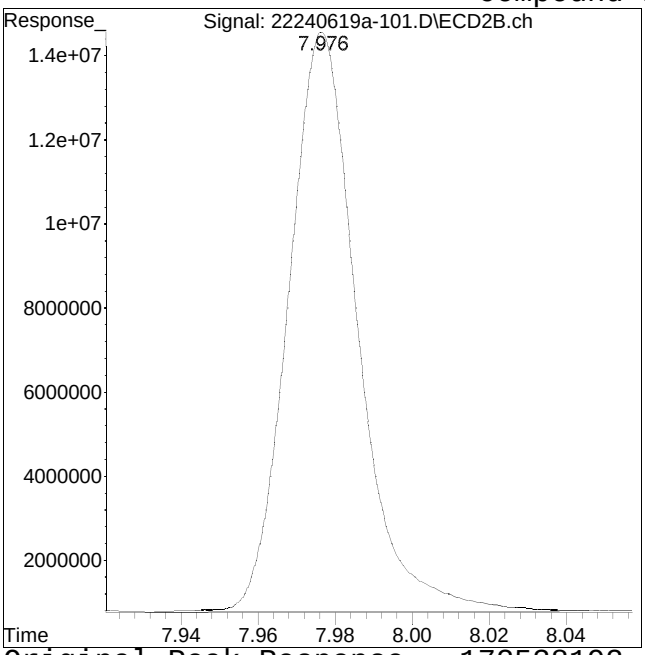


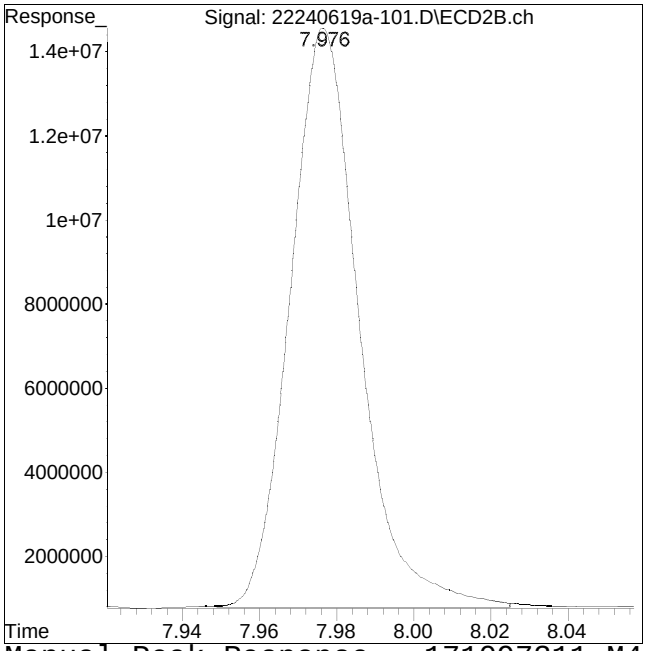
Original Peak Response = 206356544 Manual Peak Response = 184236356 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #19: MCPA #2



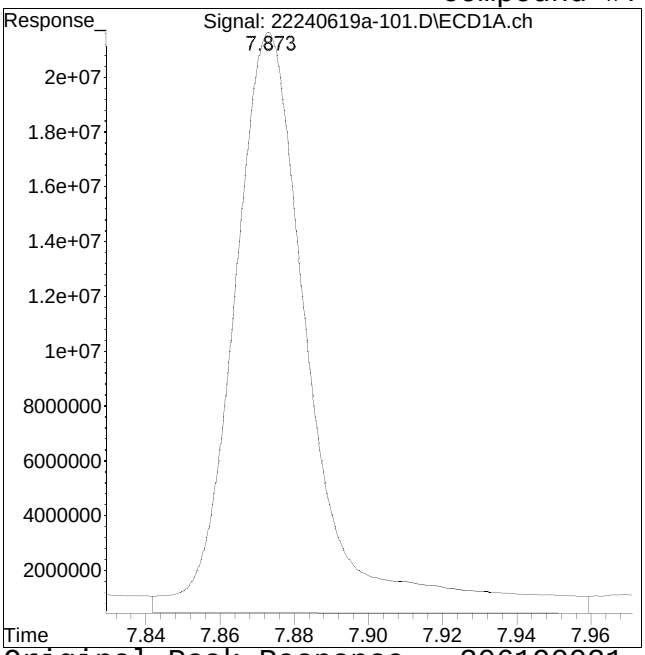


Original Peak Response = 172538192 Manual Peak Response = 171097311 M4
M4 = Poor automated baseline construction.

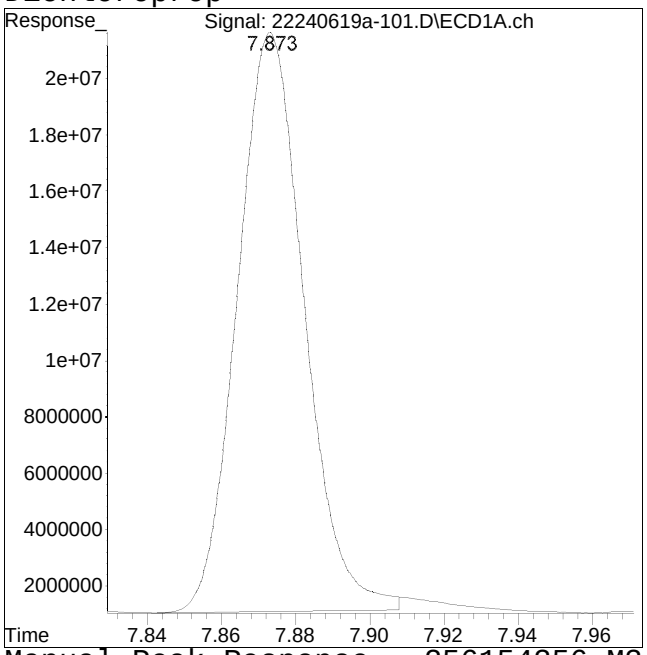
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #7: Dichloroprop



Original Peak Response = 306190921



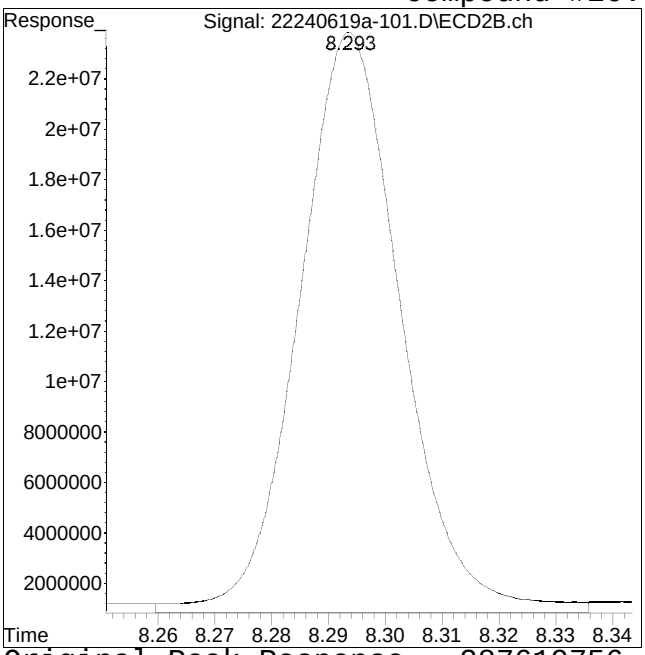
Manual Peak Response = 256154356 M3

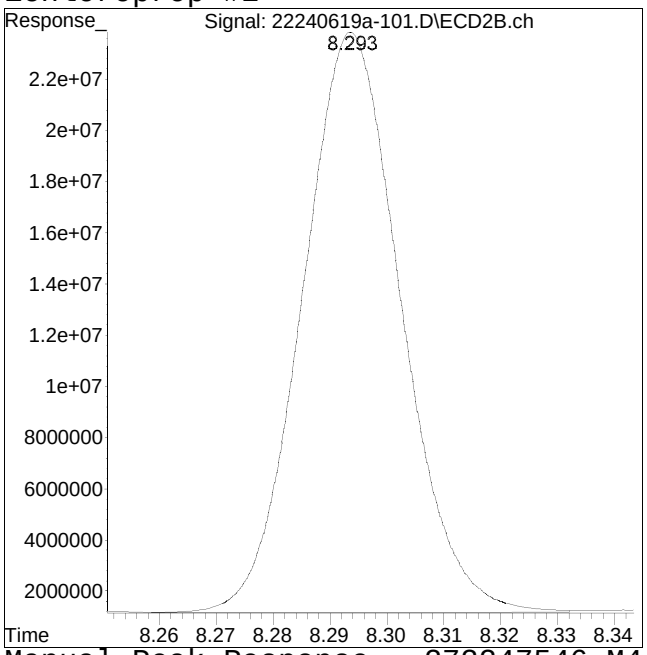
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #20: Dichloroprop #2



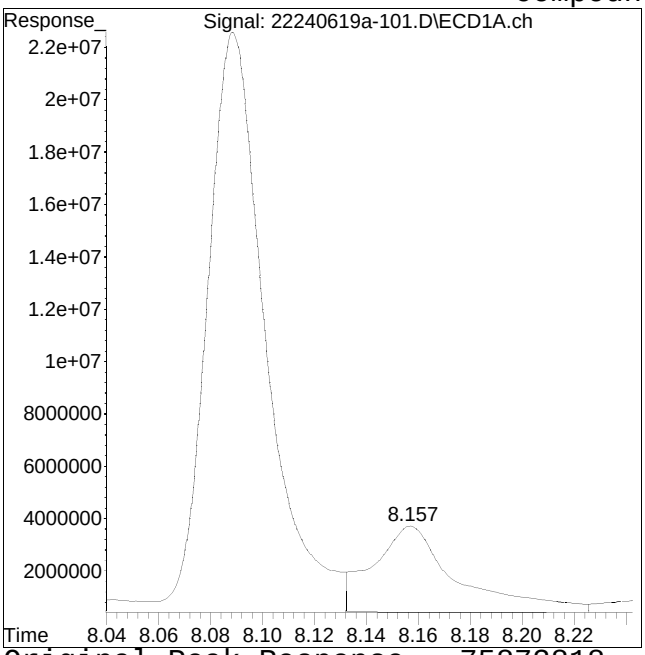


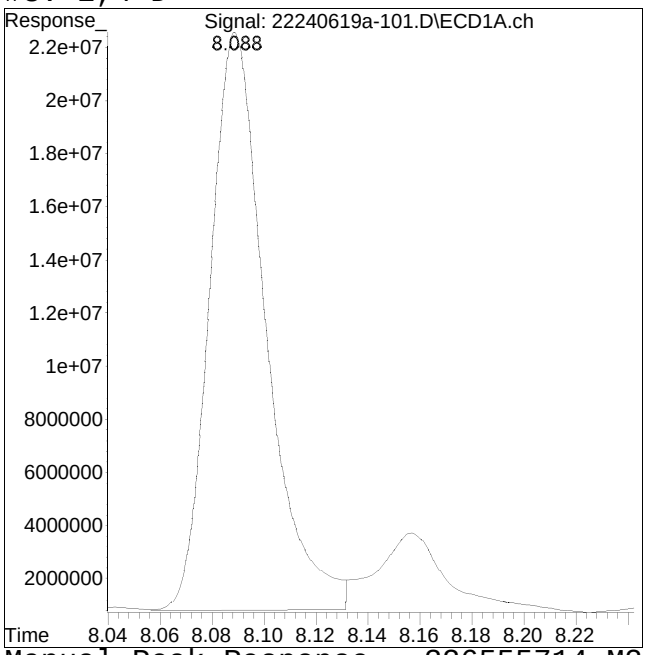
Original Peak Response = 287619756 Manual Peak Response = 272247546 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #8: 2,4-D



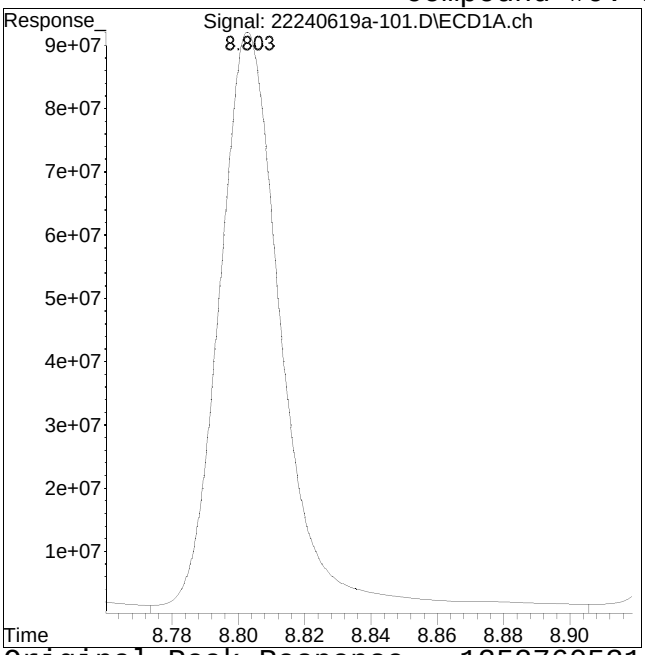


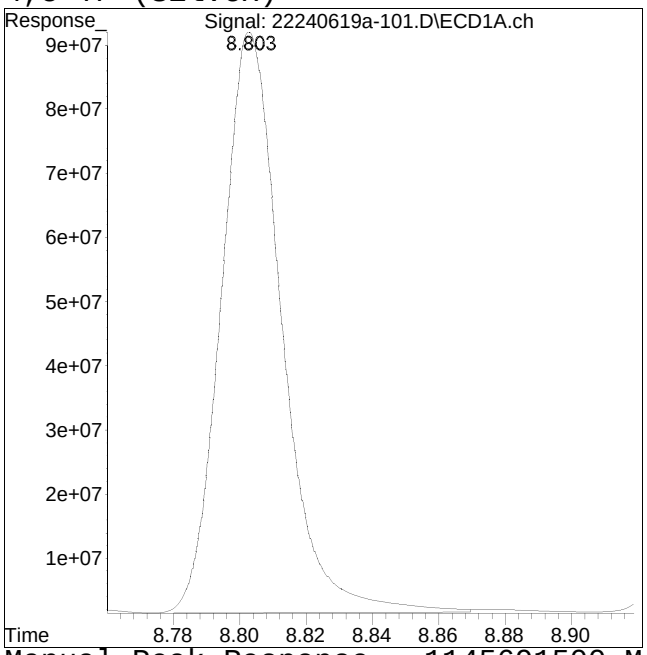
Original Peak Response = 75873818 Manual Peak Response = 326555714 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #9: 2,4,5-TP (Silvex)



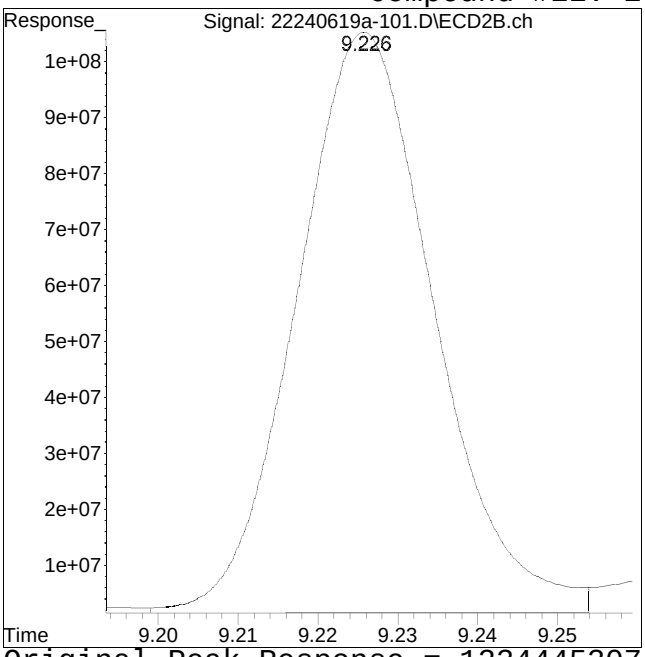


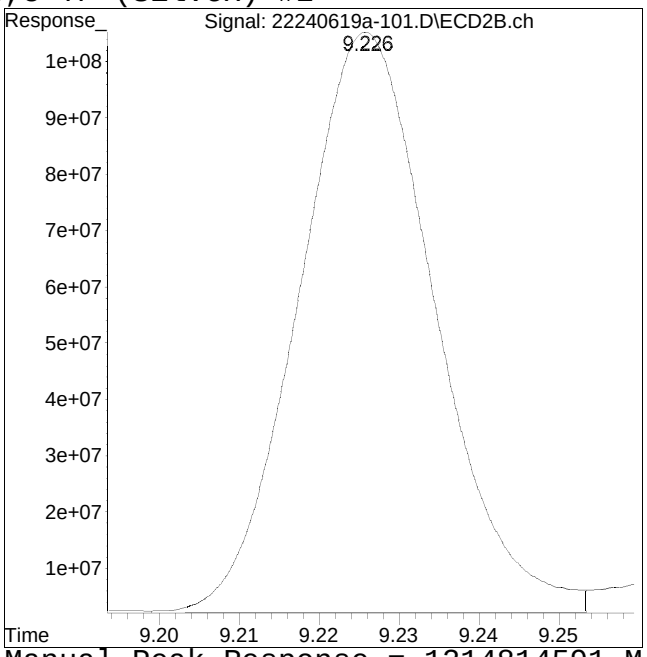
Original Peak Response = 1252760531 Manual Peak Response = 1145691500 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #22: 2,4,5-TP (Silvex) #2



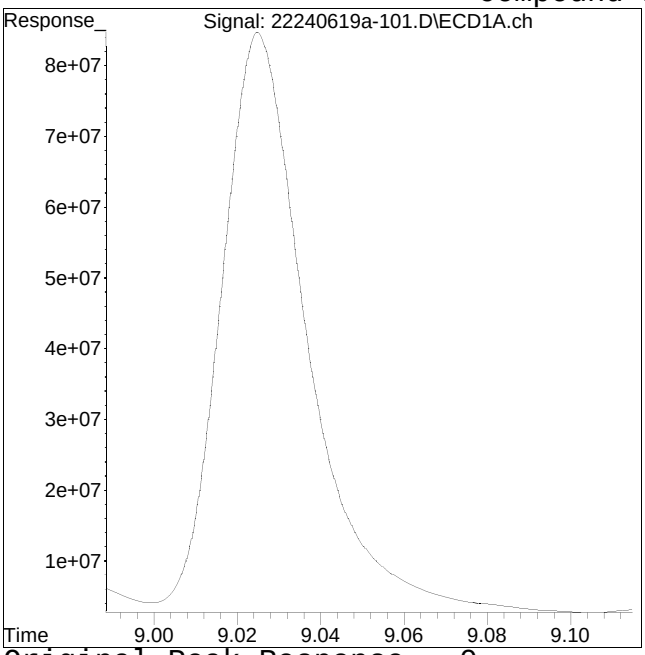


Original Peak Response = 1234445307 Manual Peak Response = 1214814591 M4
M4 = Poor automated baseline construction.

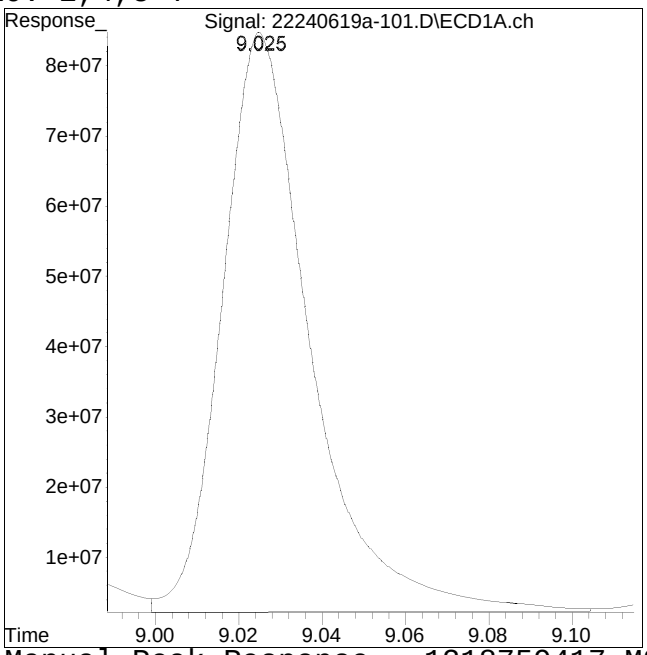
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #10: 2,4,5-T



Original Peak Response = 0



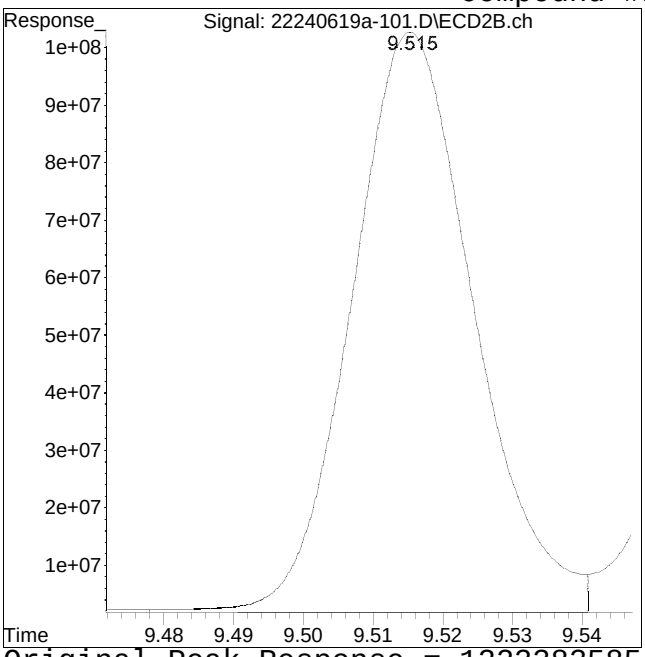
Manual Peak Response = 1218759417 M2

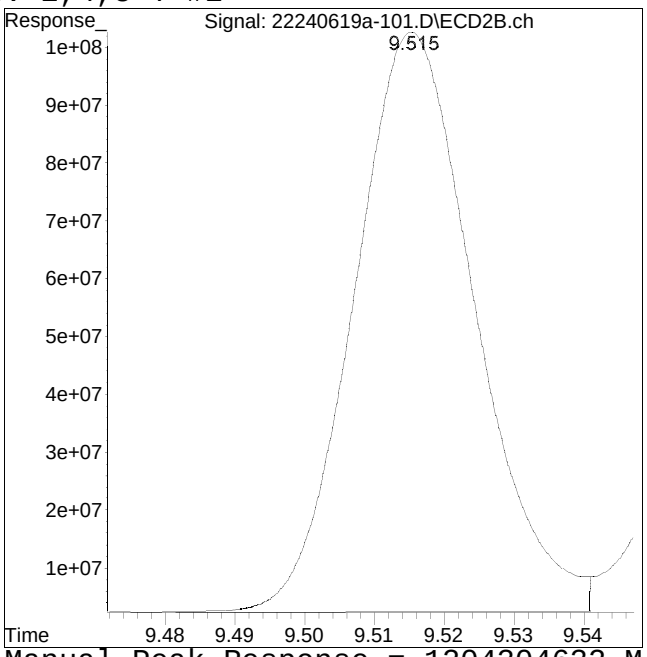
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #23: 2,4,5-T #2



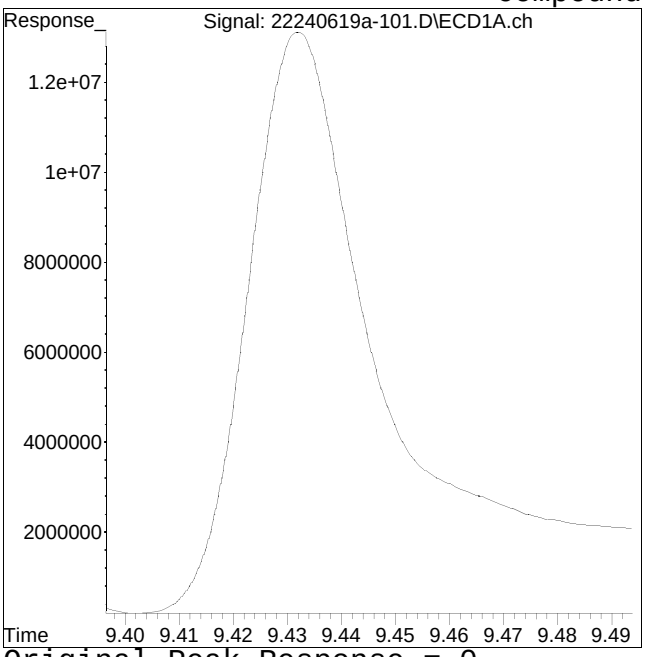


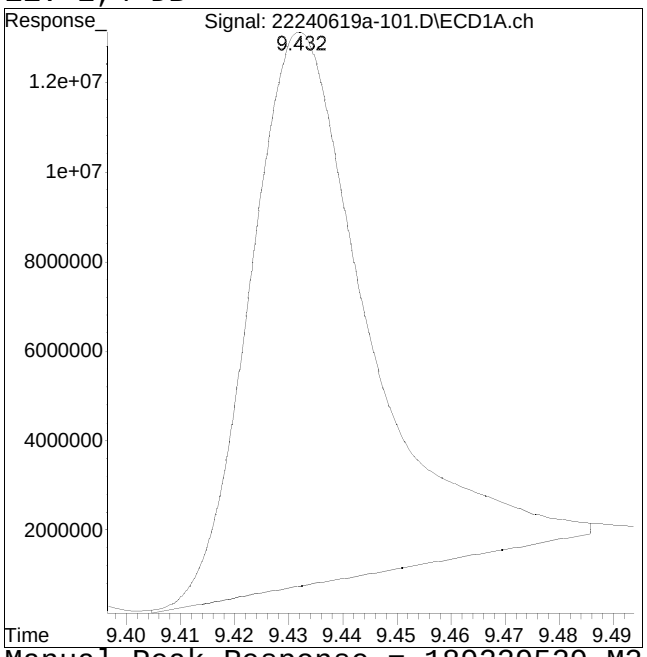
Original Peak Response = 1223383585 Manual Peak Response = 1204304632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #11: 2,4-DB



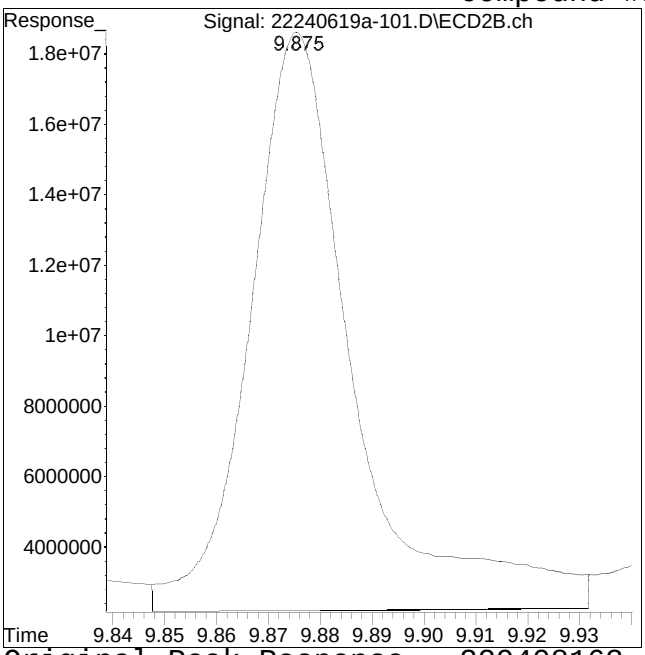


Original Peak Response = 0 Manual Peak Response = 189229529 M2
M2 = Peak not found by automatic integration algorithm.

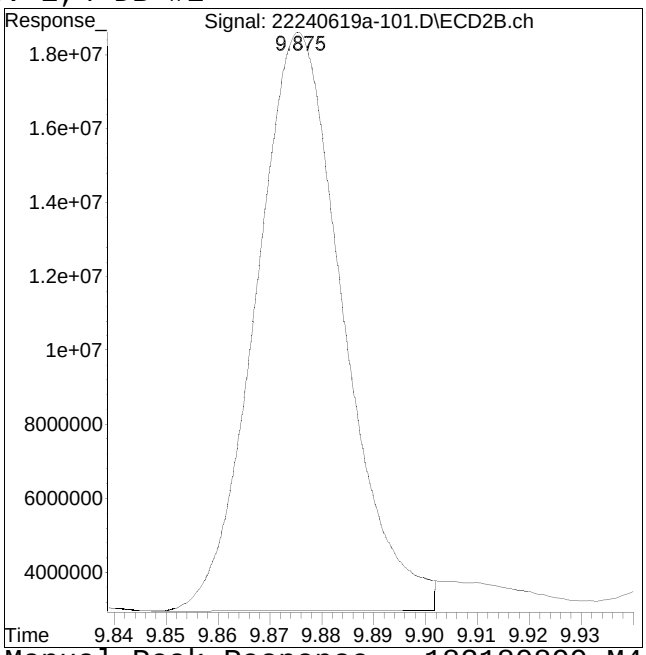
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #24: 2,4-DB #2



Original Peak Response = 229408163



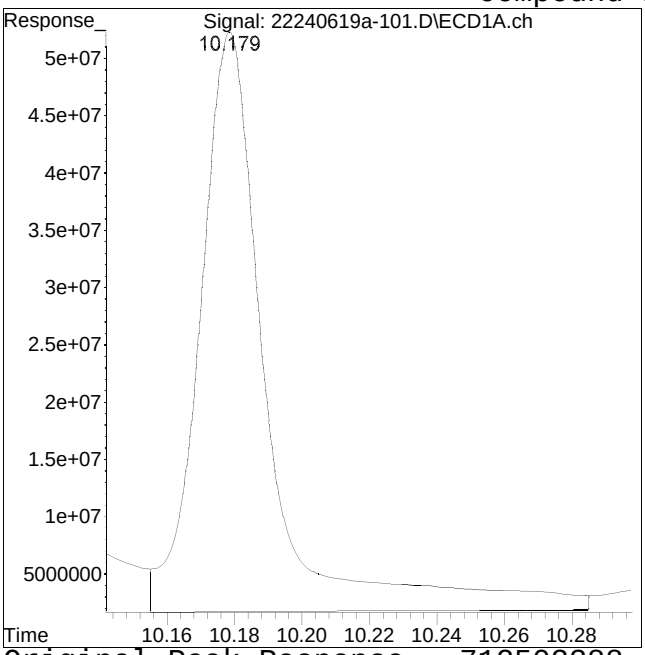
Manual Peak Response = 182180899 M4

M4 = Poor automated baseline construction.

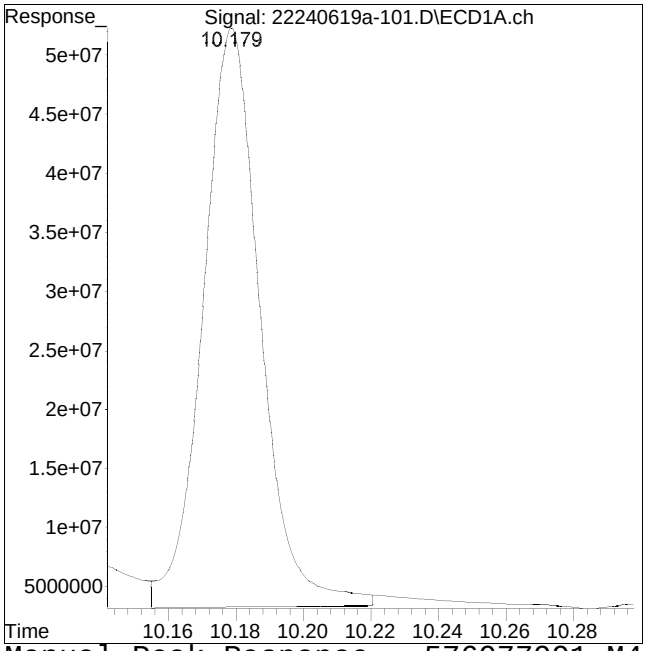
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #12: Dinoseb



Original Peak Response = 712502388



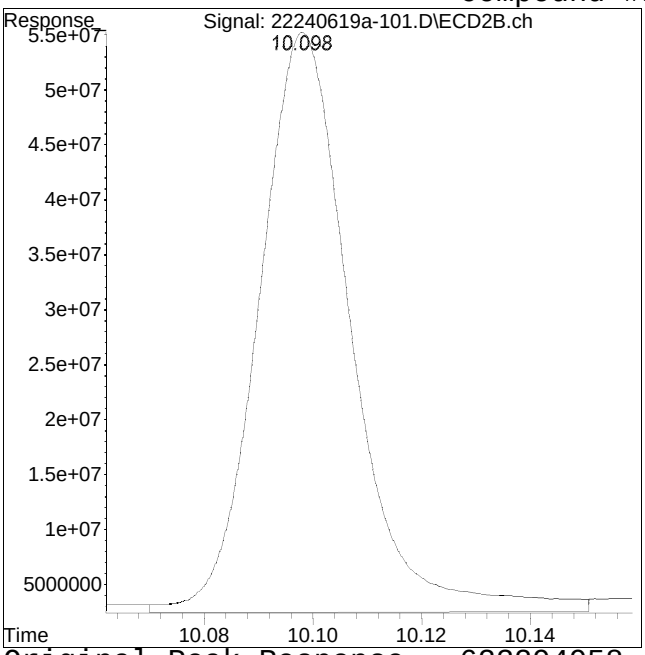
Manual Peak Response = 576977991 M4

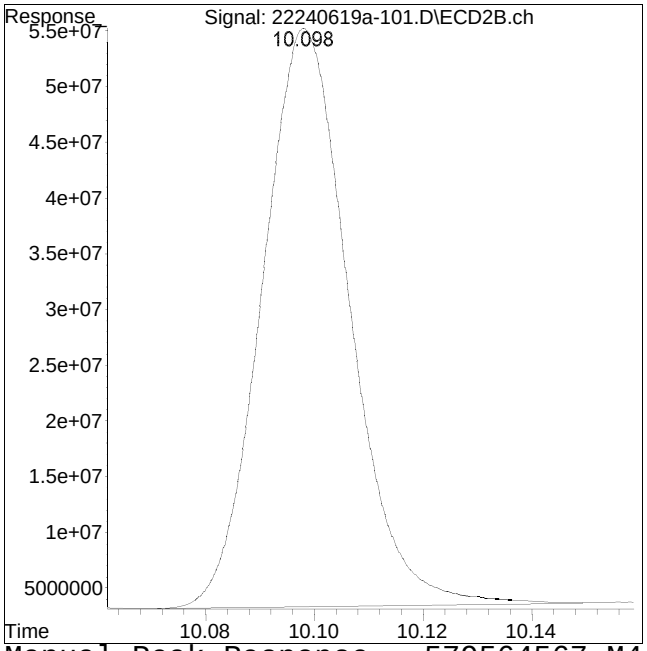
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-101.D Operator : pest22:akm
Date Inj'd : 6/20/2024 19:57 Instrument : Pest22
Sample : WG1936519-5,42,, msd Quant Date : 6/21/2024 7:42 am

Compound #25: Dinoseb #2





Original Peak Response = 623294958 Manual Peak Response = 579564567 M4
M4 = Poor automated baseline construction.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: Pest
Inst: Pest_22
Date: **04/12/24**
Run: **ical**

Method: 8151
GC: HERB

Seq: wg1907956
IS: pp11408

Vial	Data File	Sample	CCAL	notes	initials
1	22240412i-01	blank,42e,,pp11408			
2	22240412i-02	il1herb,42e,,pp11464 L0.005/5			PEG/EJL 4/12
3	22240412i-03	il2herb,42e,,pp11463 L0.1/10			PEG/EJL 4/12
4	22240412i-04	il3herb,42e,,pp11462 L0.2/20			PEG/EJL 4/12
5	22240412i-05	il4herb,42e,,pp11461 L0.5/50			PEG/EJL 4/12
6	22240412i-06	il5herb,42e,,pp11460 L1/100			PEG/EJL 4/12
7	22240412i-07	il6herb,42e,,pp11459 L2/200			PEG/EJL 4/12
8	22240412i-08	cicv,42e,,pp11458 L0.2/20ICV			PEG/EJL 4/12

Dep.: PEST
Inst: Pest_22
Date: **06/19/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1936304
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
1	22240619a-01	herb11561	a/b: dino high (a very high), a: mcpp, mcpa, 245t high, b: mcpp low, 6:22			PEG 6/19
2	22240619a-02	WG1935411-1	1,42,, t rr	t 15-JUN-24 23:45		PEG 6/19
3	22240619a-03	WG1935411-2	2,42,, t rr	t 15-JUN-24 23:45		PEG 6/19
4	22240619a-04	WG1935411-3	3,42,, t rr	t 15-JUN-24 23:45		PEG 6/19
5	22240619a-05	L2433097-01	42,, t rr	t 15-JUN-24 23:45		PEG 6/19
6	22240619a-06	L2433097-07	42,, t rr	t 15-JUN-24 23:45		PEG 6/19
7	22240619a-07	WG1934887-1	1,42,,			PEG 6/19
8	22240619a-08	WG1934887-2	2,42,,			PEG 6/19
9	22240619a-09	WG1934887-3	3,42,,			PEG 6/19
10	22240619a-10	L2432967-01	42,,	602		PEG 6/19
11	22240619a-11	L2432967-02	42,,	602		PEG 6/19
12	22240619a-12	L2432967-03	42,,	602		PEG 6/19
13	22240619a-13	L2432967-04	42,,	602		PEG 6/19
14	22240619a-14	L2432967-05	42,,	602		PEG 6/19
15	22240619a-15	L2432967-06	42,,	602		PEG 6/19
16	22240619a-16	L2432967-07	42,,	602		EJL 6/19
17	22240619a-17	L2432967-08	42,,	602		EJL 6/19
18	22240619a-18	herb11561	a/b: dino high (a very high), a: mcpp, mcpa, 245t high, b: mcpp low, 24d high, 13:(			EJL 6/19
19	22240619a-19	L2432967-09	42,,	602		EJL 6/19
20	22240619a-20	L2432967-10	42,,	602		EJL 6/19
21	22240619a-21	WG1935965-1	42,, 934			EJL 6/19
22	22240619a-22	WG1935965-2	42,, 934			EJL 6/19
23	22240619a-23	WG1935965-3	42,, 934			EJL 6/19
24	22240619a-24	L2432970-09	42,,			EJL 6/19
25	22240619a-25	L2433074-01	42,,R3B			EJL 6/19
26	22240619a-26	L2433076-01	42,,R3B			EJL 6/19
27	22240619a-27	L2433190-02	42,,R3D			EJL 6/19
28	22240619a-28	L2433035-01	42,,			EJL 6/19
29	22240619a-29	L2433035-02	42,,			EJL 6/19
30	22240619a-30	L2433035-03	42,, p			EJL 6/19
31	22240619a-31	WG1935934-4	42,, ms			EJL 6/19
32	22240619a-32	WG1935934-5	42,, msd			EJL 6/19
33	22240619a-33	L2433035-04	42,,			EJL 6/19
34	22240619a-34	herb11561	a/b: dino high (a very high), a: mcpp, mcpa, 245t high, b: mcpp low, 24d high, 18:(			EJL 6/19
35	22240619a-35	L2433035-05	42,,			JAG 6/19
36	22240619a-36	L2433035-06	42,,			JAG 6/19
37	22240619a-37	L2433035-07	42,,			JAG 6/19
38	22240619a-38	L2433035-08	42,,			JAG 6/19
39	22240619a-39	L2433035-09	42,,			JAG 6/19
40	22240619a-40	L2433035-10	42,,			JAG 6/19
41	22240619a-41	L2433375-01	42,,			JAG 6/19
42	22240619a-42	L2433375-02	42,,			JAG 6/19
43	22240619a-43	L2433375-03	42,,			JAG 6/19
44	22240619a-44	L2433375-05	42,,			JAG 6/19

Dep.: PEST
Inst: Pest_22
Date: **06/19/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1936304
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
45	22240619a-45	herb11561	a/b dino high, a: mcpp, mcpa, 245t high b: mcpp low, 24d high 21:29			JAG 6/19
46	22240619a-46	L2433375-06	42,,	double IS, rv		
47	22240619a-47	L2433375-07	42,,			PEG 6/20
48	22240619a-48	L2432967-11	42,,	602		PEG 6/20
49	22240619a-49	L2432967-12	42,,	602		PEG 6/20
50	22240619a-50	L2432967-13	42,,	602		PEG 6/20
51	22240619a-51	L2432967-14	42,,	602		PEG 6/20
52	22240619a-52	L2432967-15	42,,	602		PEG 6/20
53	22240619a-53	L2433273-01	42,,	602		PEG 6/20
54	22240619a-54	L2433273-02	42,,	602		PEG 6/20
55	22240619a-55	L2433273-03	42,,	602		PEG 6/20
56	22240619a-56	herb11561	a/b dino high, a: mcpp, mcpa, 245t high, b: mcpp low, 00:53 (6/20)			PEG 6/20
57	22240619a-57	L2433273-04	42,,	602		PEG 6/20
58	22240619a-58	L2433273-05	42,,	602		PEG 6/20
59	22240619a-59	L2432929-01	42,,			PEG 6/20
60	22240619a-60	L2432970-01	42,,			PEG 6/20
61	22240619a-61	L2432970-02	42,,			PEG 6/20
62	22240619a-62	L2432970-05	42,,			PEG 6/20
63	22240619a-63	L2432970-06	42,,			PEG 6/20
64	22240619a-64	L2433162-01	42,,			PEG 6/20
65	22240619a-65	WG1936151-1	42,, t	t 17-JUN-24 16:57		PEG 6/20
66	22240619a-66	WG1936151-2	42,, t	t 17-JUN-24 16:57		PEG 6/20
67	22240619a-67	WG1936151-3	42,, t	t 17-JUN-24 16:57		PEG 6/20
68	22240619a-68	L2432929-01	42,, t	t 17-JUN-24 16:57		PEG 6/20
69	22240619a-69	L2433280-01	42,, t	t 17-JUN-24 16:57		PEG 6/20
70	22240619a-70	herb11561	a/b dino high, a: mcpp, mcpa, 245t high, b: mcpp low, 5:13 (6/20)			PEG 6/20
71	22240619a-71	WG1936156-1	42,, t	t 15-JUN-24 23:45		PEG 6/20
72	22240619a-72	WG1936156-2	42,, t	t 15-JUN-24 23:45		PEG 6/20
73	22240619a-73	WG1936156-3	42,, t	t 15-JUN-24 23:45		PEG 6/20
74	22240619a-74	L2432762-06	42,, t	t 17-JUN-24 04:21		PEG 6/20
75	22240619a-75	L2433493-02	42,, t	t 17-JUN-24 04:21		PEG 6/20
76	22240619a-76	L2433937-01	42,,,R3C t	t 18-JUN-24 14:36		PEG 6/20
77	22240619a-77	L2433375-06	42,, rv			AKM 6/20
78	22240619a-78	WG1936372-1	42,,			EJL 6/20
79	22240619a-79	WG1936372-2	42,,			EJL 6/20
80	22240619a-80	WG1936372-3	42,,			EJL 6/20
81	22240619a-81	L2433247-01	42,,			EJL 6/20
82	22240619a-82	L2433440-22	42,,			EJL 6/20
83	22240619a-83	L2433440-23	42,,			EJL 6/20
84	22240619a-84	L2433440-26	42,,			EJL 6/20
85	22240619a-85	L2433440-27	42,,			EJL 6/20
86	22240619a-86	L2433440-29	42,,			EJL 6/20
87	22240619a-87	herb11561	a/b dala, dino high, a: dicamba, mcpp, mcpa, 245t high, b: 24d high, 15			EJL 6/20
88	22240619a-88	L2433793-01	42,,			EJL 6/20

Dep.: PEST
Inst: Pest_22
Date: **06/19/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1936304
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
89	22240619a-89	L2433793-02,42,,				EJL 6/20
90	22240619a-90	L2433793-03,42,,				EJL 6/20
91	22240619a-91	WG1936517-1,42,,	518 519 520 ct			EJL 6/20
92	22240619a-92	WG1936517-2,42,,	518 519 520 ct			EJL 6/20
93	22240619a-93	WG1936517-3,42,,	518 519 520 ct			EJL 6/20
94	22240619a-94	L2433247-02,42,,				EJL 6/20
95	22240619a-95	L2434294-03,42,,	ct	methylated 6/20 13:07		EJL 6/20
96	22240619a-96	L2433398-34,42,,				EJL 6/20
97	22240619a-97	L2433640-04,42,,				
98	22240619a-98	L2433822-06,42,,				
99	22240619a-99	L2433375-04,42,,	p			
100	22240619a-100	WG1936519-4,42,,	ms			
101	22240619a-101	WG1936519-5,42,,	msd			
102	22240619a-102	L2433375-08,42,,				
103	22240619a-103	herb11561				
104	22240619a-104	L2433691-01,42,,				
105	22240619a-105	L2433691-02,42,,				
106	22240619a-106	WG1936384-1,42,,	386 mcp			
107	22240619a-107	WG1936384-2,42,,	386 mcp			
108	22240619a-108	WG1936384-3,42,,	386 mcp			
109	22240619a-109	L2433521-01,42,,	mcp			
110	22240619a-110	L2433398-13,42,,				
111	22240619a-111	L2433539-09,42,,				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 21 2024, 08:49 am

Work Group: WG1935934 for Department: 2 Organic Preparation

Created: 18-JUN-24 Due: Operator: gyn

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433035-01	MW-8S	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-02	MW-8D	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-03	MW-1SR	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-04	MW-1DR2	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-05	MP-1	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-06	MP-1D	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-07	PZ-6	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-08	MW-6D	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-09	EB_06122024	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-10	DUP_06122024	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433074-01	WW-001	S	HERB-8151	WATER	DONE	U	0619	0619	3B	Amber-A1
L2433076-01	WW-002	S	HERB-8151	WATER	DONE	U	0619	0619	3B	Amber-A1
L2433190-02	AGW-4	S	HERB-8151	WATER	DONE	U	0619	0619	3D	Amber-A1
L2433375-01	EB_06132024	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-02	DUP_06132024	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-03	PZ-5	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-05	MW-12S	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-06	MW-12D	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-07	MW-4S	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
WG1935934-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1935934-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1935934-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				
WG1935934-4	Matrix Spike	S	HERB-8151	WATER	DONE	U				
WG1935934-5	Matrix Spike Duplica	S	HERB-8151	WATER	DONE	U				

Comments:

WG1935934-3	WG1935934-2
WG1935934-4	L2433035-03
WG1935934-5	L2433035-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 21 2024, 08:49 am

Work Group: WG1936519 for Department: 2 Organic Preparation

Created: 19-JUN-24 Due: Operator:

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-04	MW-5D	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-08	MW-4D2	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433478-01	CCHEM_M24S1	S	HERB-8151	WATER	DONE	U	0620	0705	4E	Amber-A1
L2433691-01	SCDOH-DR	S	HERB-8151	WATER	DONE	U	0621	0621	S0	Amber-A1
L2433691-02	MW-10S	S	HERB-8151	WATER	DONE	U	0621	0621	S0	Amber-A1
L2433691-03	MW-10D	S	HERB-8151	WATER	DONE	U	0621	0621	S0	Amber-A1
WG1936519-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1936519-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1936519-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				
WG1936519-4	Matrix Spike	S	HERB-8151	WATER	DONE	U				
WG1936519-5	Matrix Spike Duplica	S	HERB-8151	WATER	DONE	U				

Comments:

WG1936519-3	WG1936519-2
WG1936519-4	L2433375-04
WG1936519-5	L2433375-04

ORGANIC ELN REPORT

Workgroup: WG1935934

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 23090460
Surrogate Type: Herbicide **Lot #:** PP11596aq,11/30/2024,1r,25,1
Spike Type: Herbicides **Lot #:** PP11568an,11/06/2024,d4,10,1
Spike Verify by: SKB
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A051624
25% NaOH	Na060824
Acidified Na2SO4	AS061724
DCM	EI560
Diethyl ether	23090460
Na2S2O3	N/A
NaCl	24C2956246

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 23090460

Additional Reagents/Stds

Acidified Na2SO4	as061824
Diazomethane	d061924
Hexane	EI504
Isooctane	STBK8849
Methanol	63054
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2433035-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-02 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-03 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-04 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-05 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 21-JUN-24 08:49 AM

ORGANIC ELN REPORT

Workgroup: WG1935934

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2433035-06 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-07 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-08 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-09 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-10 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433074-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433076-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433190-02 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 21-JUN-24 08:49 AM

ORGANIC ELN REPORT

Workgroup: WG1935934

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2433375-02 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-03 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-05 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-06 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-07 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-1 BLANK	06/18/24 13:33 **WG1935965**	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-2 LCS	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-3 LCSD	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-4 MS	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 21-JUN-24 08:49 AM

ORGANIC ELN REPORT

Workgroup: WG1935934

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
WG1935934-5 MSD	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 21-JUN-24 08:49 AM

ORGANIC ELN REPORT

Workgroup: WG1936519

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 23090460
Surrogate Type: Herbicide **Lot #:** PP11596-AQ(11/30/24)
Spike Type: Herbicides **Lot #:** PP11568-AN(11/06/24)
Spike Verify by: SKB
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A051624
25% NaOH	Na060824
Acidified Na2SO4	AS061924
DCM	EI560
Diethyl ether	23090460
Na2S2O3	N/A
NaCl	24C2956246

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 23090460

Additional Reagents/Stds

Acidified Na2SO4	as061924
Diazomethane	d061924
Hexane	EI504
Isooctane	STBK8849
Methanol	63054
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2433375-04 SAMP	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5		06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7
L2433375-08 SAMP	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5		06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7
L2433478-01 SAMP	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5		06/19/24 18:00	06/19/24 19:30	06/20/24 16:53	Sophia Osei	0.5	06/19/24 18:01	10	S-EVAP G,N-EVAP #7
L2433691-01 SAMP	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5		06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7
L2433691-02 SAMP	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5		06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7

Reported: 21-JUN-24 08:49 AM

ORGANIC ELN REPORT

Workgroup: WG1936519

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
L2433691-03 SAMP	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5		06/19/24 18:00	06/19/24 19:30	06/20/24 16:53	Sophia Osei	0.5	06/19/24 18:01	10	S-EVAP G,N-EVAP #7
WG1936519-1 BLANK	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5		06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7
	WG1936517, WG1936518,WG1936520														
WG1936519-2 LCS	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5	.5	06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7
WG1936519-3 LCSD	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5	.5	06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7
WG1936519-4 MS	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5	.5	06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7
WG1936519-5 MSD	06/19/24 12:39	Sam Boateng	1000	>12,<2	-	.5	.5	06/19/24 18:00	06/19/24 19:30	06/20/24 12:18	Sophia Osei	0.5	06/20/24 13:07	10	S-EVAP G,N-EVAP #7

Reported: 21-JUN-24 08:49 AM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433375
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
EB_06132024 (L2433375-01)	97	95	78	110			0
DUP_06132024 (L2433375-02)	94	93	96	137			0
PZ-5 (L2433375-03)	91	92	95	139			0
MW-5D (L2433375-04)	93	92	93	133			0
MW-12S (L2433375-05)	89	90	93	139			0
MW-12D (L2433375-06)	89	92	92	136			0
MW-4S (L2433375-07)	86	87	91	132			0
MW-4D2 (L2433375-08)	89	91	94	136			0
WG1936802-1BLANK	94	89	94	139			0
WG1936802-2LCS	98	93	95	138			0
WG1936802-3LCSD	89	86	88	139			0
MW-5DMS	102	94	97	136			0
MW-5DMSD	97	93	96	140			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936802-2 **Analysis Date** : 06/20/24 10:05	**File ID**	: P2240620a-18
LCSD Sample ID	: WG1936802-3 **Analysis Date** : 06/20/24 10:13	**File ID**	: P2240620a-19

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.85	104	1.78	1.69	95	9	40-140	50
Aroclor 1260	1.78	1.66	93	1.78	1.56	87	6	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 10:49
Matrix Spike	: WG1936802-4	**MS Analysis Date**	: 06/20/24 10:58
Matrix Spike Dup	: WG1936802-5	**MSD Analysis Date**	: 06/20/24 11:06

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aroclor 1016	ND	1.78	1.82	102	1.78	1.76	99	3	40-140	50
Aroclor 1260	ND	1.78	1.69	95	1.78	1.66	93	2	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936802-1	**Lab File ID**	: P2240620a-17
Matrix	: WATER	**Extraction Date**	: 06/20/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 06/20/24 09:56	**Analysis Date (2)**	: 06/20/24 09:56
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1936802-2LCS	WG1936802-2	06/20/24 10:05	06/20/24 10:05
WG1936802-3LCSD	WG1936802-3	06/20/24 10:13	06/20/24 10:13
EB_06132024	L2433375-01	06/20/24 10:22	06/20/24 10:22
DUP_06132024	L2433375-02	06/20/24 10:31	06/20/24 10:31
PZ-5	L2433375-03	06/20/24 10:40	06/20/24 10:40
MW-5D	L2433375-04	06/20/24 10:49	06/20/24 10:49
MW-5DMS	WG1936802-4	06/20/24 10:58	06/20/24 10:58
MW-5DMSD	WG1936802-5	06/20/24 11:06	06/20/24 11:06
MW-12S	L2433375-05	06/20/24 11:15	06/20/24 11:15
MW-12D	L2433375-06	06/20/24 11:24	06/20/24 11:24
MW-4S	L2433375-07	06/20/24 11:32	06/20/24 11:32
MW-4D2	L2433375-08	06/20/24 11:41	06/20/24 11:41

Analytical Sequence
Form 8b
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 05/06/24 05/07/24

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L4 (250ug/L)	R1826224-1	05/06/24 20:49
1232/1262 L4 (250ug/L)	R1826224-2	05/06/24 20:59
1248 L4 (250ug/L)	R1826224-3	05/06/24 21:08
1221/1254 L4 (250ug/L)	R1826224-4	05/06/24 21:18
1016/1260 L2 (50ug/L)	R1826224-5	05/06/24 21:36
1016/1260 L3 (100ug/L)	R1826224-6	05/06/24 21:46
1016/1260 L4 (250ug/L)	R1826224-7	05/06/24 21:55
1016/1260 L5 (500ug/L)	R1826224-8	05/06/24 22:04
1016/1260 L6 (1000ug/L)	R1826224-9	05/06/24 22:14
R1826224-10 ICV	R1826224-10	05/06/24 22:23
R1826224-11 ICV	R1826224-11	05/06/24 22:33
R1826224-12 ICV	R1826224-12	05/06/24 22:42
R1826224-13 ICV	R1826224-13	05/06/24 22:52
1016/1260 L1 (10ug/L)	R1826224-14	05/07/24 15:31
R1826224-15 ICV	R1826224-15	05/07/24 15:41
WG1936878-1 CCAL	WG1936878-1	06/20/24 06:10
WG1936802-1 BLANK	WG1936802-1	06/20/24 09:56
WG1936802-2 LCS	WG1936802-2	06/20/24 10:05
WG1936802-3 LCSD	WG1936802-3	06/20/24 10:13
EB_06132024	L2433375-01	06/20/24 10:22
DUP_06132024	L2433375-02	06/20/24 10:31
PZ-5	L2433375-03	06/20/24 10:40
MW-5D	L2433375-04	06/20/24 10:49
MW-5D MS	WG1936802-4	06/20/24 10:58
MW-5D MSD	WG1936802-5	06/20/24 11:06
MW-12S	L2433375-05	06/20/24 11:15
MW-12D	L2433375-06	06/20/24 11:24
MW-4S	L2433375-07	06/20/24 11:32
MW-4D2	L2433375-08	06/20/24 11:41

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container / Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:22
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-20	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:31
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-21	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:40
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-22	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:49
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-23	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:15
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-26	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:24
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-27	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:32
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-28	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:41
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-29	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936802-1	**Date Collected**	: NA
Client ID	: WG1936802-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 09:56
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240620a-17	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:22
Operator : pest2:meo
Sample : L2433375-01,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:46 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.228	330.4E6	232.2E6	25.000	25.000
	Standard Area 1 : #1 = 305460179				Recovery =	108.17%	
	Standard Area 1 : #2 = 224448888				Recovery =	103.44%	
14) i	2154_1br2nb	1.159	1.228	330.4E6	232.2E6	25.000	25.000
23) i	4268_1br2nb	1.159	1.228	330.4E6	232.2E6	25.000	25.000
34) i	1248_1br2nb	1.159	1.228	330.4E6	232.2E6	25.000	25.000
40) i	3262_1br2nb	1.159	1.228	330.4E6	232.2E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.601	336.2E6	217.7E6	19.408	19.034
	Spiked Amount 20.000	Range 30 - 150			Recovery =	97.04%	95.17%
3) s	Decachlorobi	4.011	4.523	175.4E6	118.4E6	15.670M4	21.981M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	78.35%	109.91%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:22
Operator : pest2:meo
Sample : L2433375-01,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:46 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:22
Operator : pest2:meo
Sample : L2433375-01,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:46 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

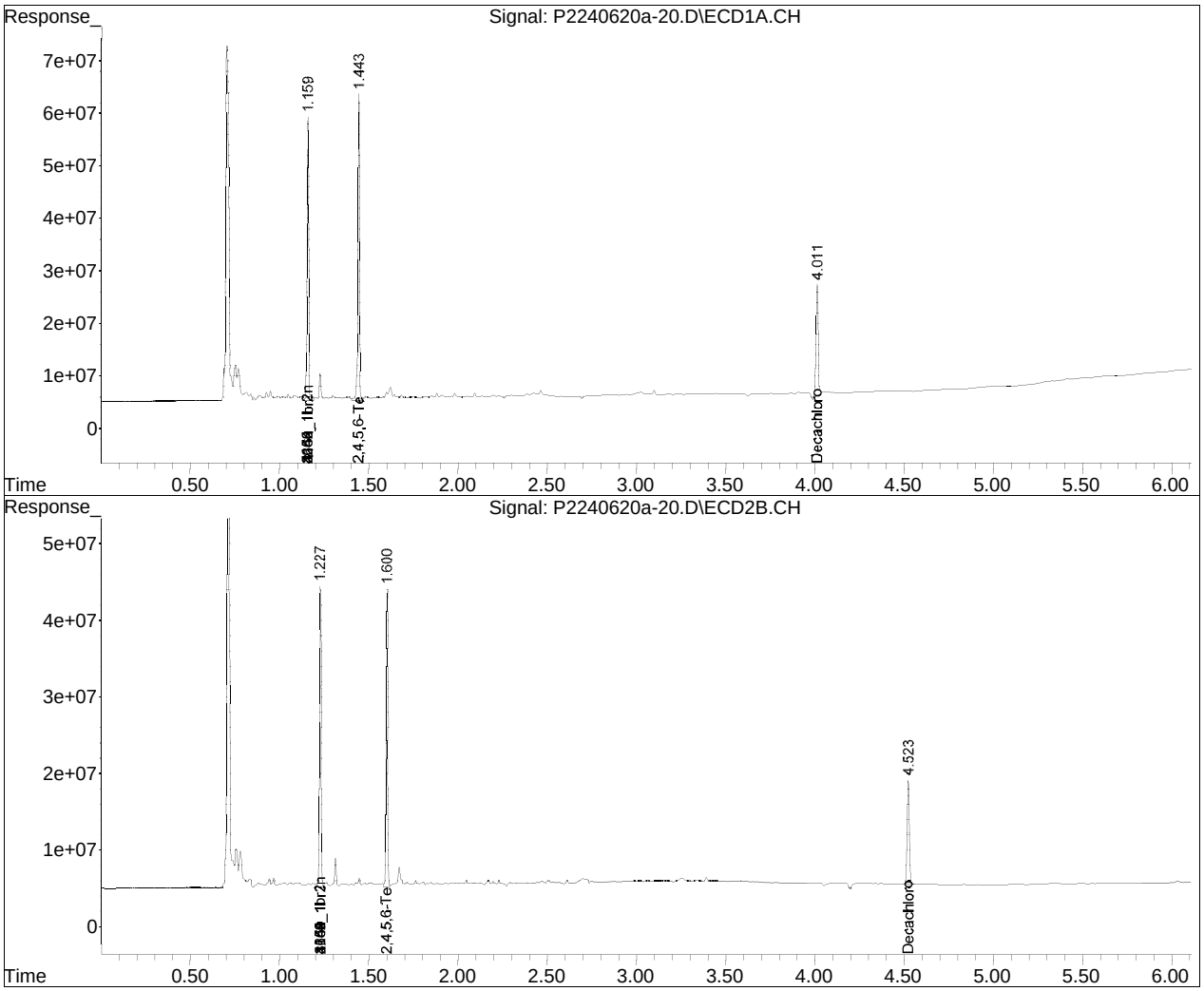
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:22
Operator : pest2:meo
Sample : L2433375-01,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:46 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

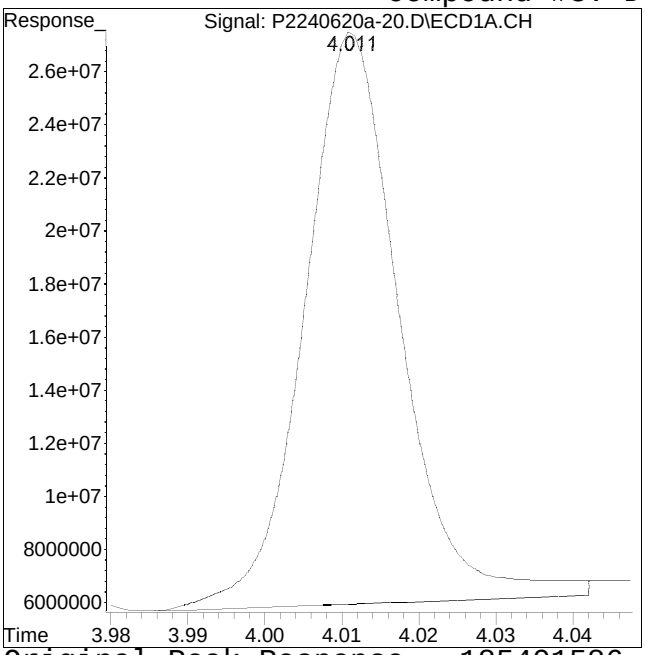
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



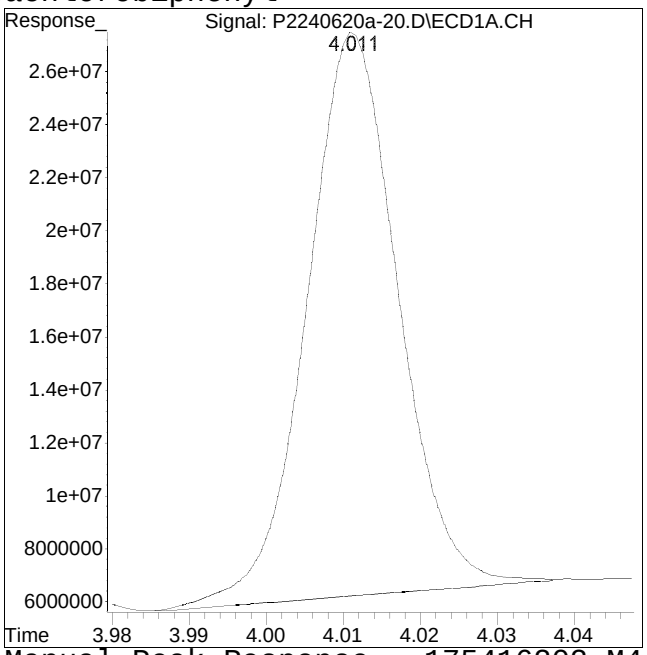
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-20.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:22 Instrument : Pest 2
Sample : L2433375-01,42,, Quant Date : 6/20/2024 11:12 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 185401586



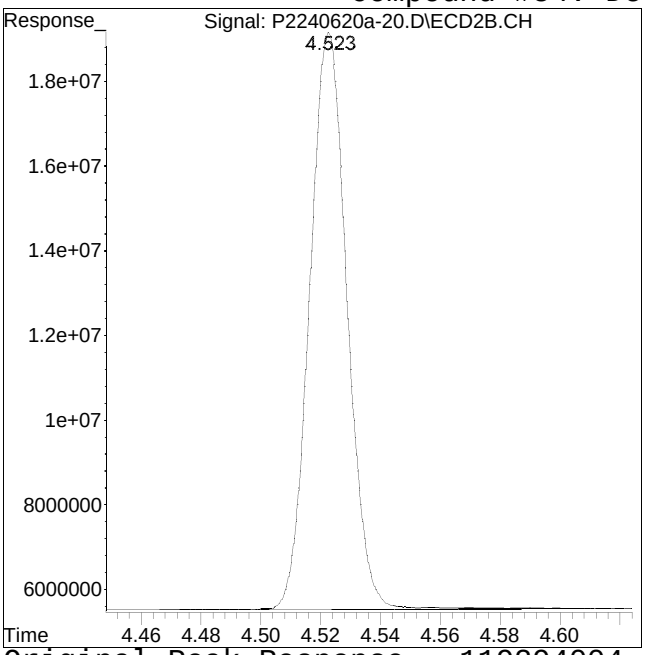
Manual Peak Response = 175416202 M4

M4 = Poor automated baseline construction.

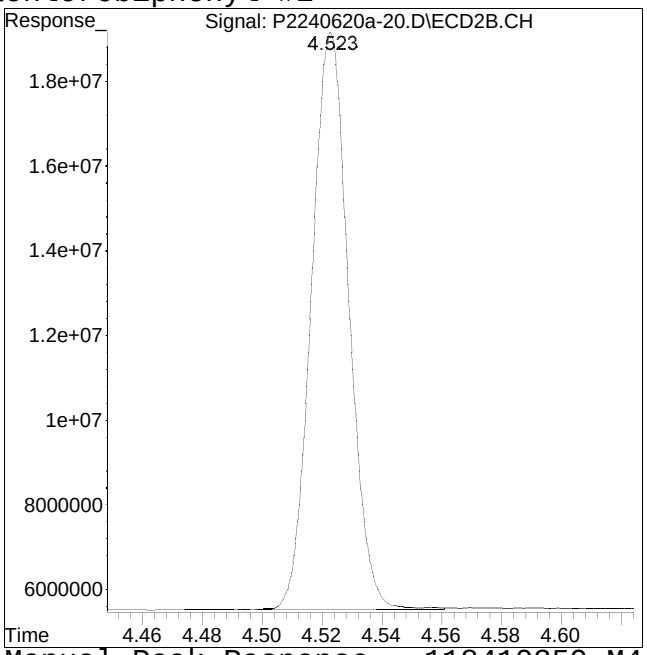
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-20.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:22 Instrument : Pest 2
Sample : L2433375-01,42,, Quant Date : 6/20/2024 11:12 am

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 119294004



Manual Peak Response = 118410359 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:31
Operator : pest2:meo
Sample : L2433375-02,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:50 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.161	1.229	353.2E6	241.1E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	115.62%	
Standard Area 1 : #2 = 224448888				Recovery =	107.41%	
14) i 2154_1br2nb	1.161	1.229	353.2E6	241.1E6	25.000	25.000
23) i 4268_1br2nb	1.161	1.229	353.2E6	241.1E6	25.000	25.000
34) i 1248_1br2nb	1.161	1.229	353.2E6	241.1E6	25.000	25.000
40) i 3262_1br2nb	1.161	1.229	353.2E6	241.1E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.601	349.4E6	220.1E6	18.869	18.528
Spiked Amount 20.000	Range 30 - 150		Recovery =	94.34%	92.64%	
3) s Decachlorobi	4.010	4.523	229.9E6	153.5E6	19.218M4	27.446
Spiked Amount 20.000	Range 30 - 150		Recovery =	96.09%	137.23%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:31
Operator : pest2:meo
Sample : L2433375-02,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:50 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:31
Operator : pest2:meo
Sample : L2433375-02,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:50 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

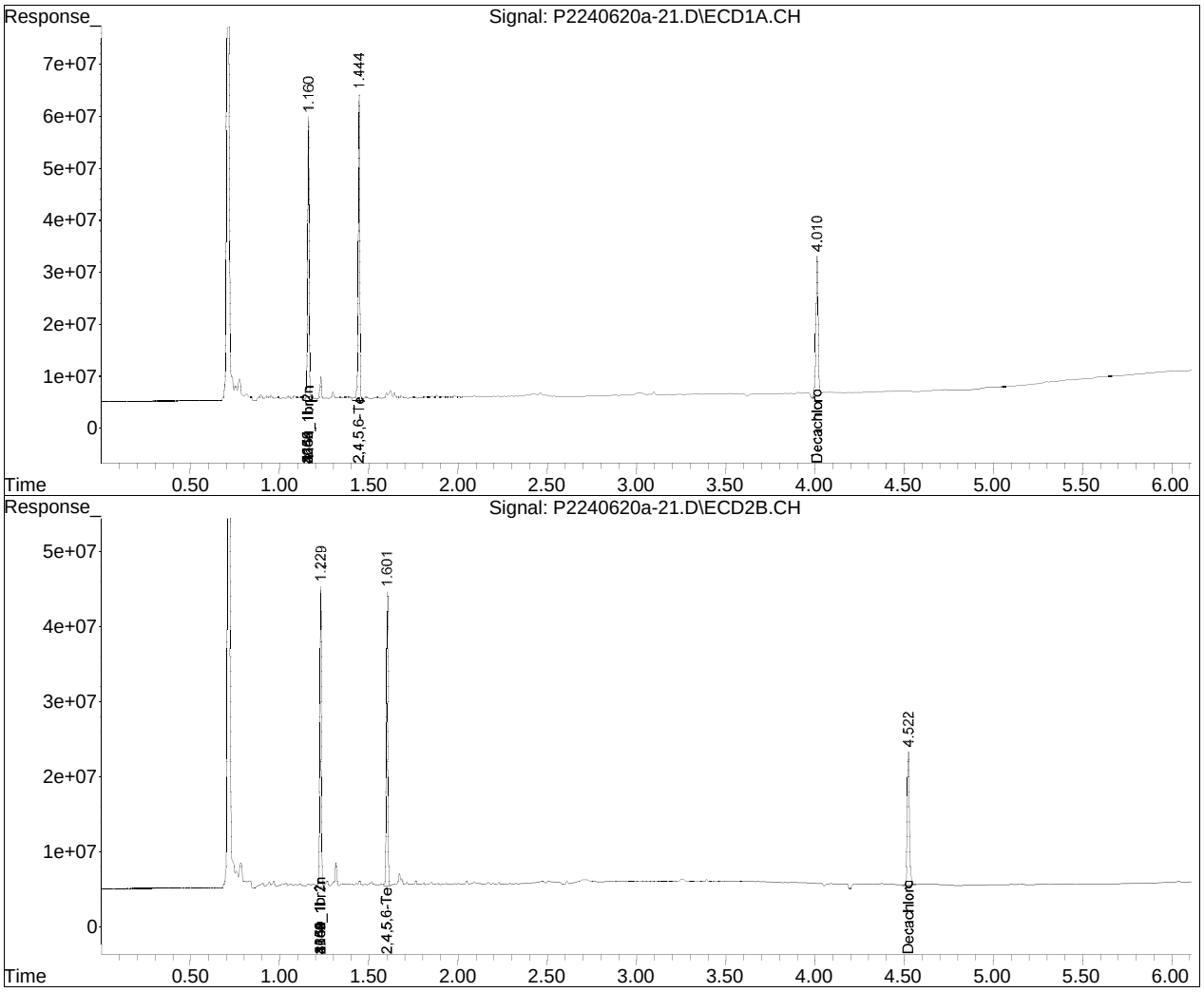
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:31
Operator : pest2:meo
Sample : L2433375-02,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:50 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

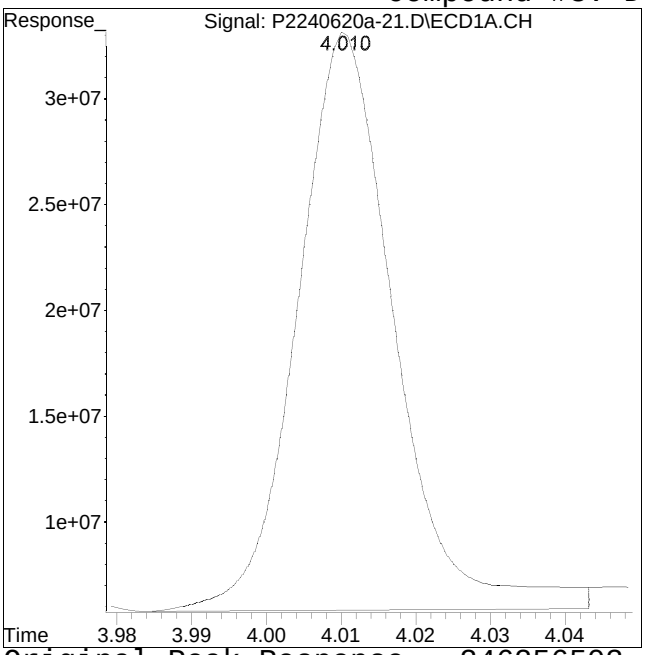
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

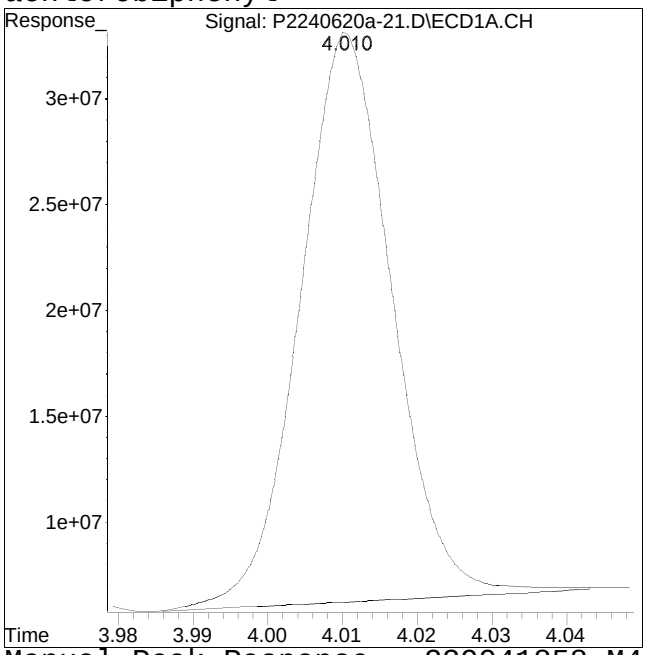


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-21.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:31 Instrument : Pest 2
Sample : L2433375-02,42,, Quant Date : 6/20/2024 11:12 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 246256503 Manual Peak Response = 229941858 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:40
Operator : pest2:meo
Sample : L2433375-03,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.161	1.229	331.0E6	231.2E6	25.000	25.000
	Standard Area 1 : #1 = 305460179				Recovery =	108.35%	
	Standard Area 1 : #2 = 224448888				Recovery =	103.02%	
14) i	2154_1br2nb	1.161	1.229	331.0E6	231.2E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.229	331.0E6	231.2E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.229	331.0E6	231.2E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.229	331.0E6	231.2E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.445	1.602	315.8E6	209.7E6	18.201	18.407
	Spiked Amount 20.000	Range 30 - 150			Recovery =	91.00%	92.03%
3) s	Decachlorobi	4.011	4.523	213.1E6	148.8E6	19.003M4	27.732
	Spiked Amount 20.000	Range 30 - 150			Recovery =	95.02%	138.66%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:40
Operator : pest2:meo
Sample : L2433375-03,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:40
Operator : pest2:meo
Sample : L2433375-03,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

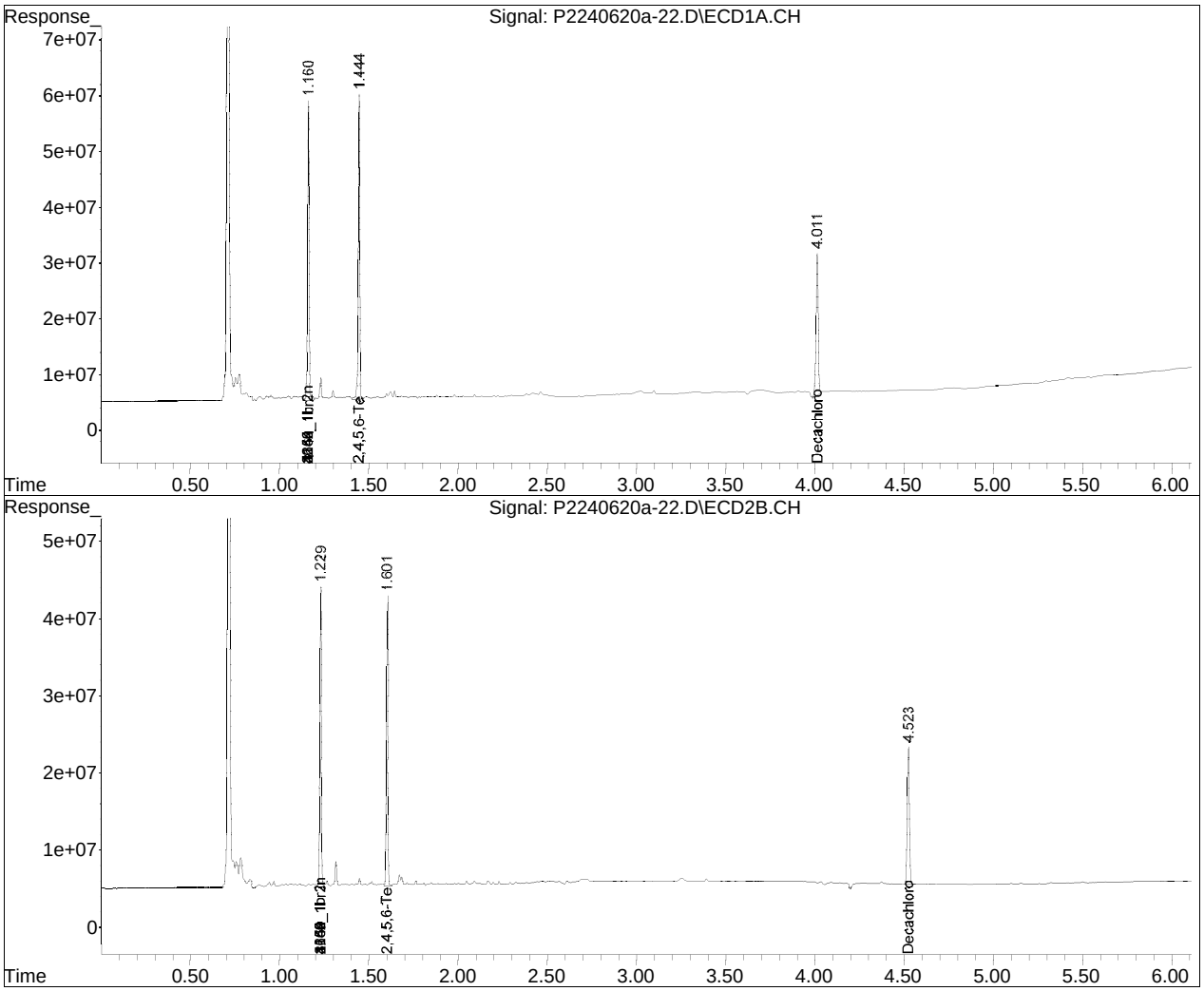
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:40
Operator : pest2:meo
Sample : L2433375-03,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

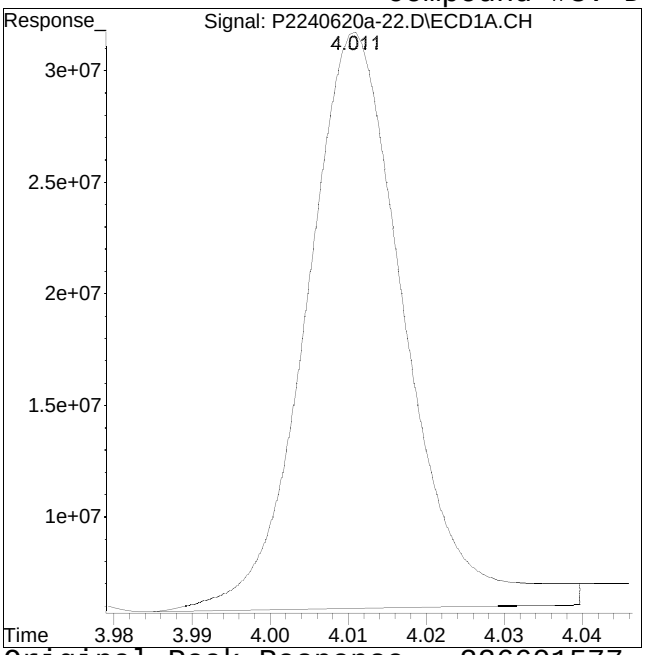
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

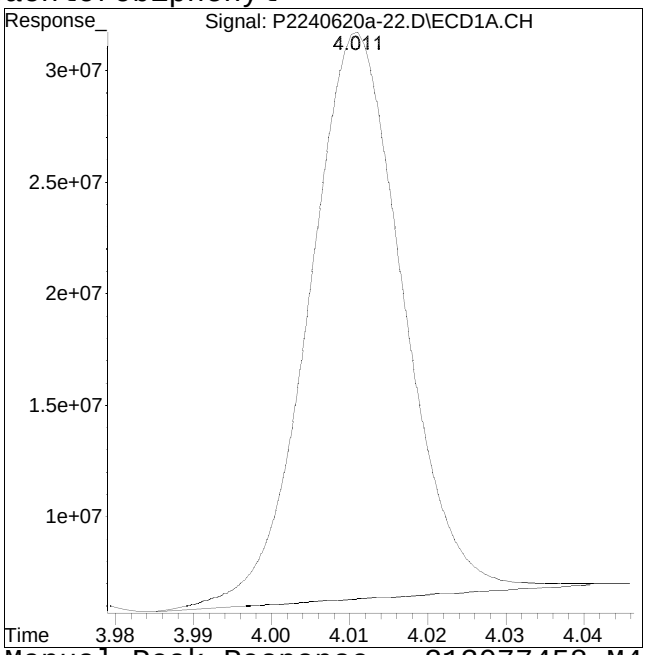


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-22.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:40 Instrument : Pest 2
Sample : L2433375-03,42,, Quant Date : 6/20/2024 11:12 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 226601577 Manual Peak Response = 213077458 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:49
Operator : pest2:meo
Sample : L2433375-04,42,, p
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:57 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.161	1.229	337.4E6	239.3E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	110.44%	
Standard Area 1 : #2 = 224448888				Recovery =	106.60%	
14) i 2154_1br2nb	1.161	1.229	337.4E6	239.3E6	25.000	25.000
23) i 4268_1br2nb	1.161	1.229	337.4E6	239.3E6	25.000	25.000
34) i 1248_1br2nb	1.161	1.229	337.4E6	239.3E6	25.000	25.000
40) i 3262_1br2nb	1.161	1.229	337.4E6	239.3E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.602	328.7E6	217.6E6	18.585	18.464
Spiked Amount 20.000	Range 30 - 150			Recovery =	92.92%	92.32%
3) s Decachlorobi	4.011	4.524	213.1E6	147.2E6	18.647M4	26.512
Spiked Amount 20.000	Range 30 - 150			Recovery =	93.23%	132.56%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:49
Operator : pest2:meo
Sample : L2433375-04,42,, p
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:57 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:49
Operator : pest2:meo
Sample : L2433375-04,42,, p
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:57 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

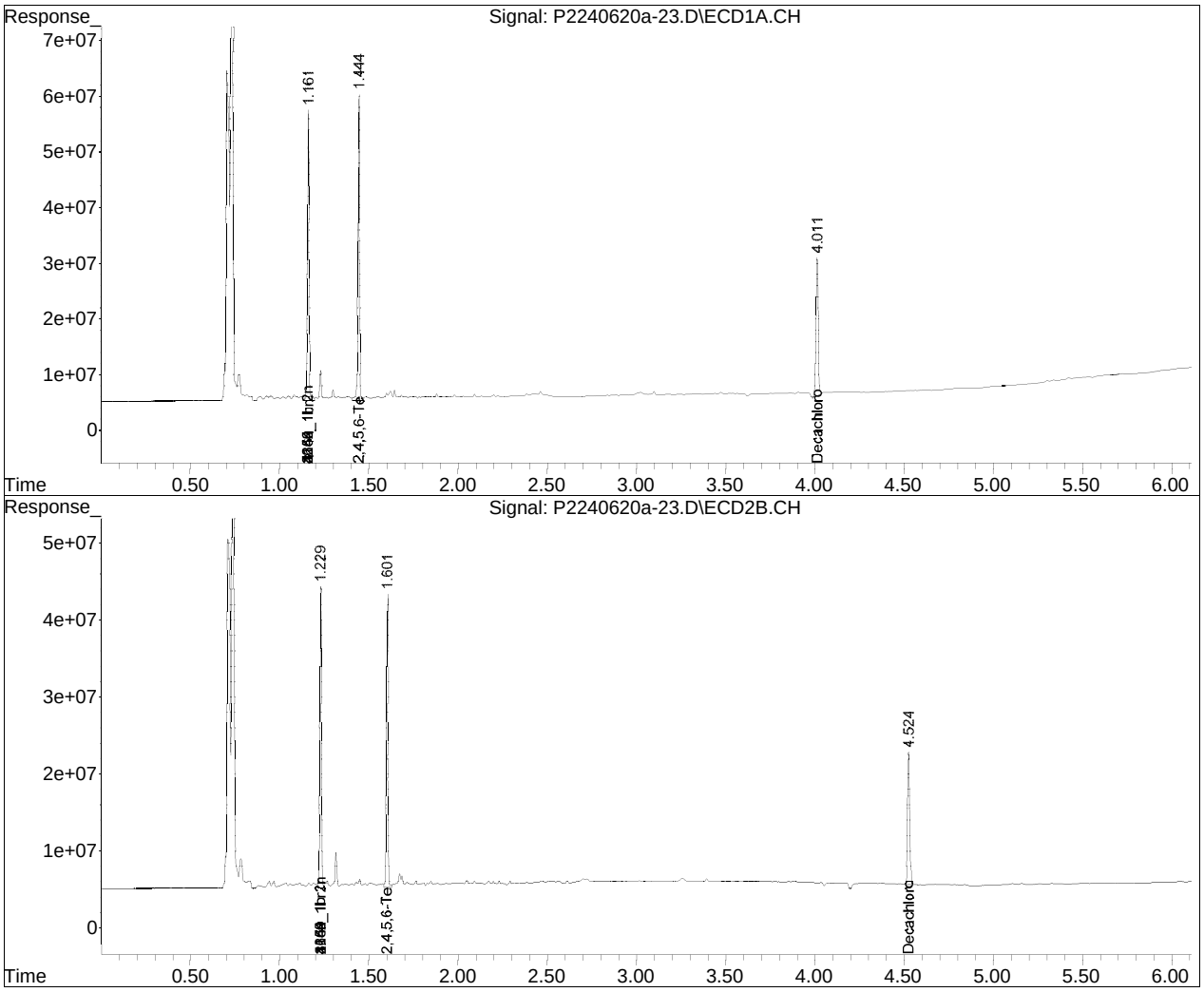
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:49
Operator : pest2:meo
Sample : L2433375-04,42,, p
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:57 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

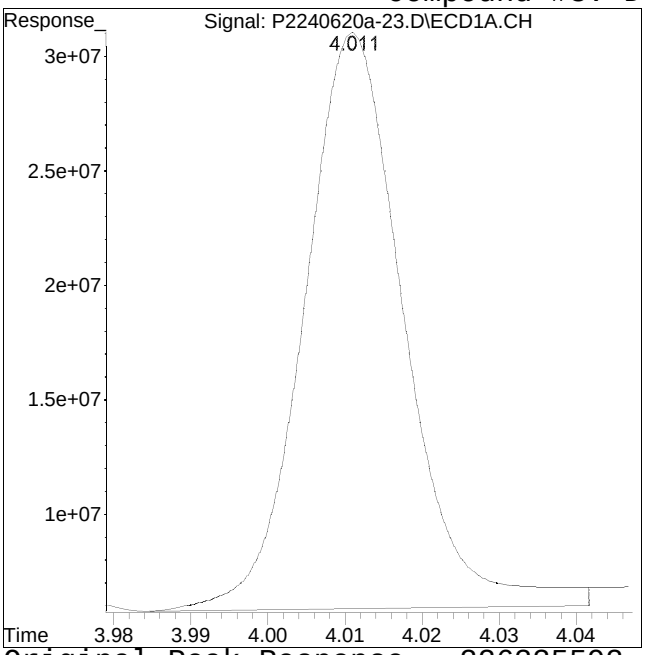
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

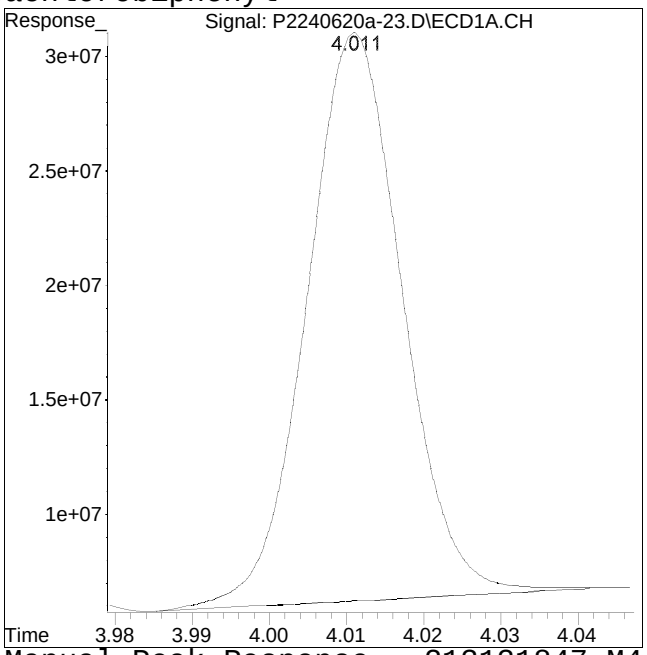


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-23.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:49 Instrument : Pest 2
Sample : L2433375-04,42,, p Quant Date : 6/20/2024 11:12 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 226335592 Manual Peak Response = 213131847 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:15
Operator : pest2:meo
Sample : L2433375-05,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:45 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.162	1.231	350.0E6	245.2E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	114.57%	
Standard Area 1 : #2 = 224448888				Recovery =	109.26%	
14) i 2154_1br2nb	1.162	1.231	350.0E6	245.2E6	25.000	25.000
23) i 4268_1br2nb	1.162	1.231	350.0E6	245.2E6	25.000	25.000
34) i 1248_1br2nb	1.162	1.231	350.0E6	245.2E6	25.000	25.000
40) i 3262_1br2nb	1.162	1.231	350.0E6	245.2E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.446	1.603	326.0E6	216.6E6	17.766	17.930
Spiked Amount 20.000	Range 30 - 150			Recovery =	88.83%	89.65%
3) s Decachlorobi	4.012	4.529	220.7E6	158.5E6	18.613M4	27.849
Spiked Amount 20.000	Range 30 - 150			Recovery =	93.06%	139.25%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:15
Operator : pest2:meo
Sample : L2433375-05,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:45 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:15
Operator : pest2:meo
Sample : L2433375-05,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:45 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

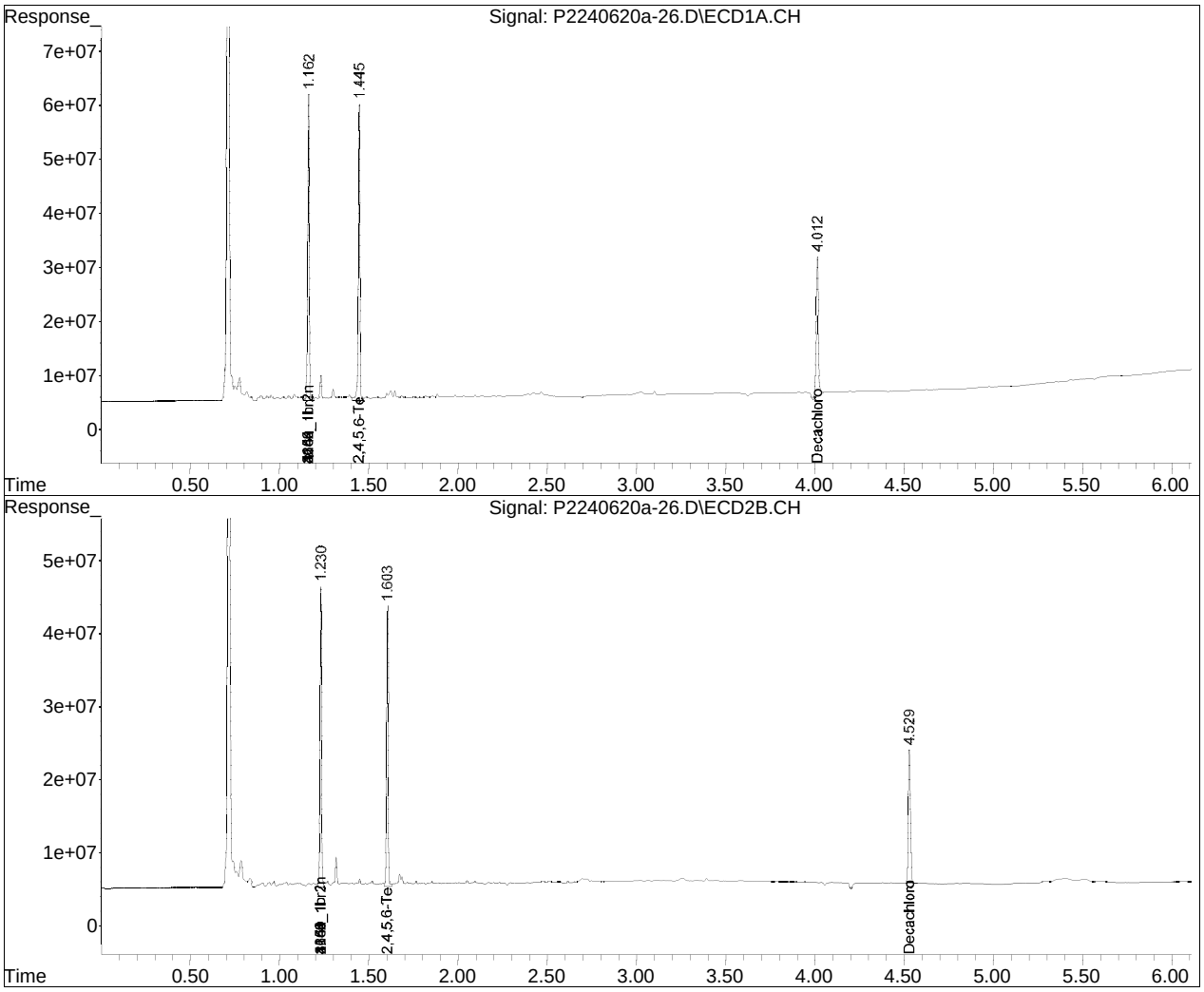
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:15
Operator : pest2:meo
Sample : L2433375-05,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:45 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

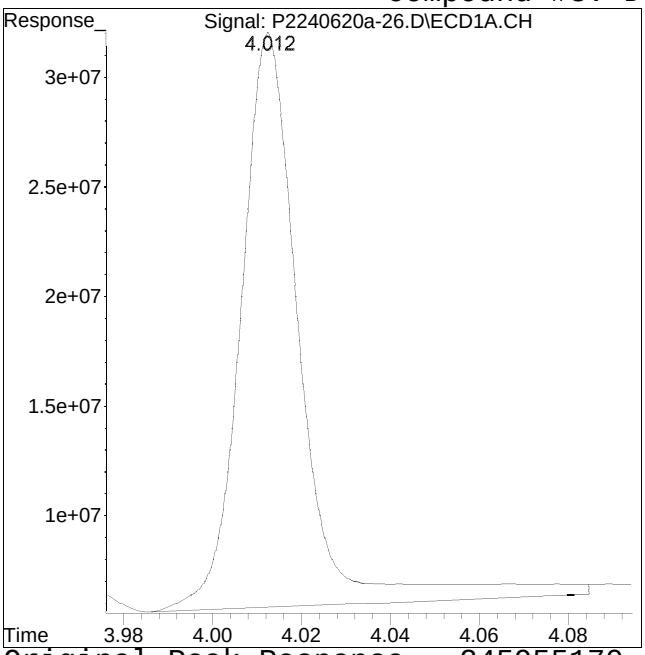
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

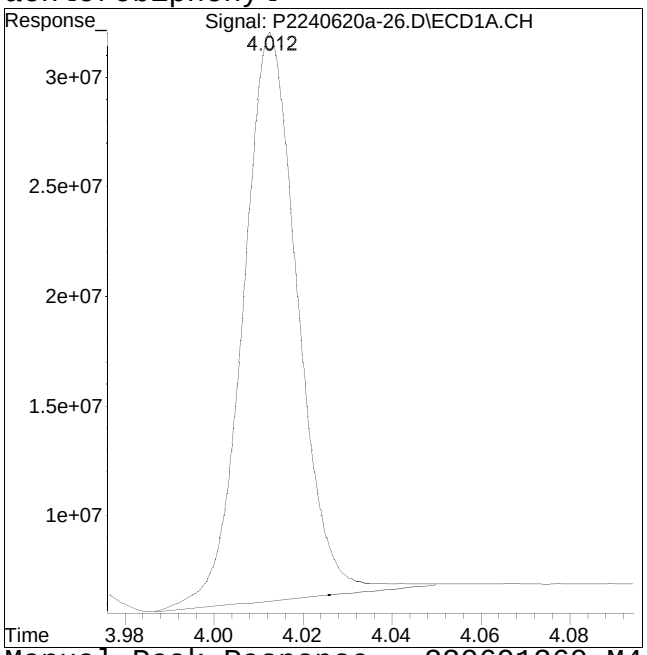


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-26.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:15 Instrument : Pest 2
Sample : L2433375-05,42,, Quant Date : 6/20/2024 11:41 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 245955170 Manual Peak Response = 220691360 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:24
Operator : pest2:meo
Sample : L2433375-06,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:48 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.161	1.230	357.1E6	244.8E6	25.000	25.000
	Standard Area 1 : #1 = 305460179				Recovery =	116.92%	
	Standard Area 1 : #2 = 224448888				Recovery =	109.06%	
14) i	2154_1br2nb	1.161	1.230	357.1E6	244.8E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.230	357.1E6	244.8E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.230	357.1E6	244.8E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.230	357.1E6	244.8E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	334.3E6	221.1E6	17.854	18.334
	Spiked Amount 20.000	Range 30 - 150			Recovery =	89.27%	91.67%
3) s	Decachlorobi	4.010	4.524	221.4E6	154.0E6	18.302M4	27.119
	Spiked Amount 20.000	Range 30 - 150			Recovery =	91.51%	135.60%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:24
Operator : pest2:meo
Sample : L2433375-06,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:48 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:24
Operator : pest2:meo
Sample : L2433375-06,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:48 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

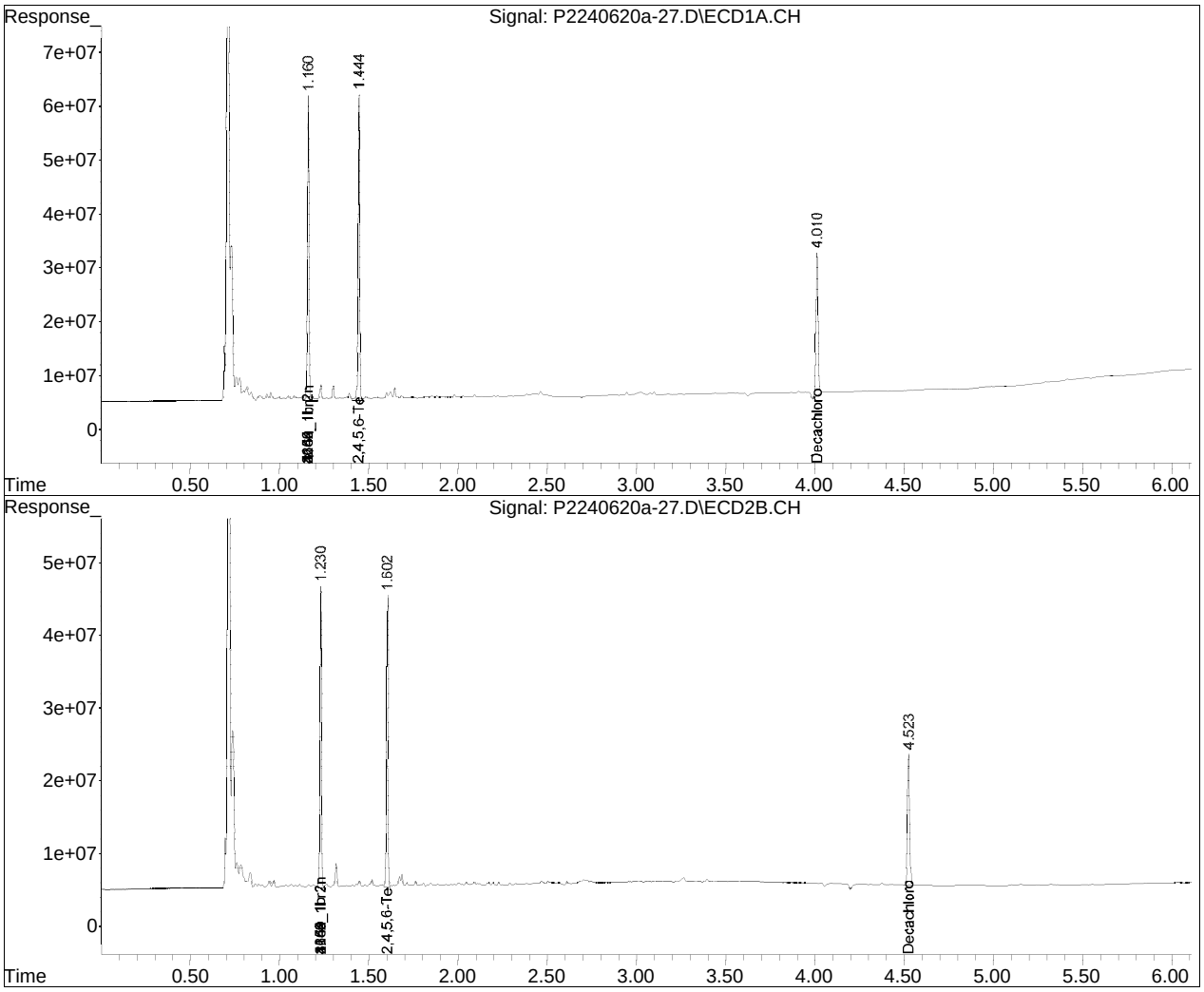
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:24
Operator : pest2:meo
Sample : L2433375-06,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:48 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

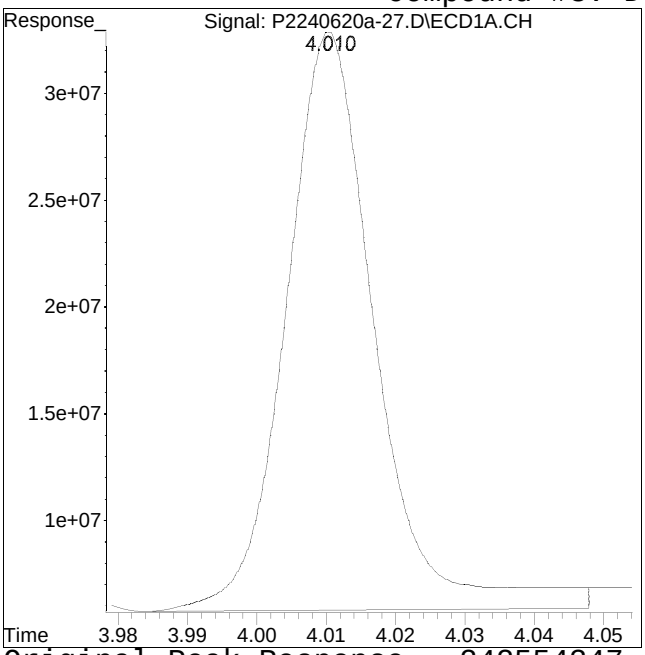
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

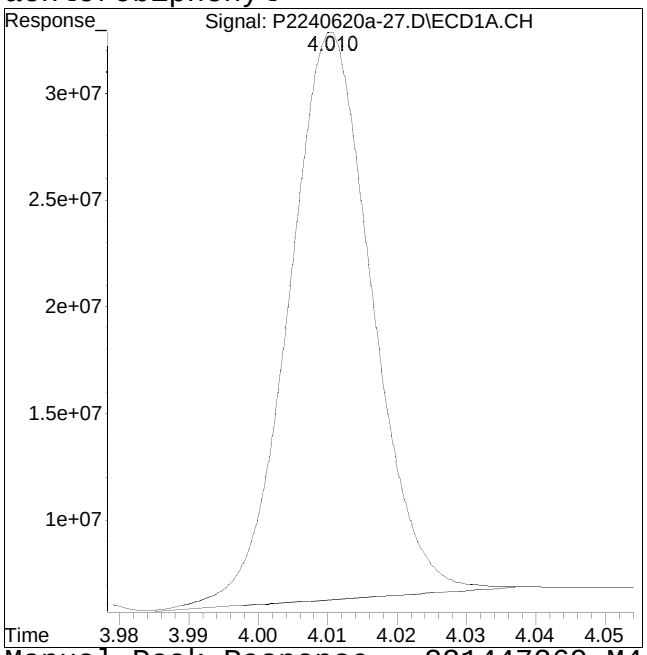


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-27.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:24 Instrument : Pest 2
Sample : L2433375-06,42,, Quant Date : 6/20/2024 11:41 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 242554347 Manual Peak Response = 221447269 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:32
Operator : pest2:meo
Sample : L2433375-07,42,,
Misc : wg1936878,WG1936802,ical21102 (Sig #1); wg1936878,WG1936858,ical21102 (Sig #2)
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:51 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.160	1.229	334.0E6	236.8E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	109.35%	
Standard Area 1 : #2 = 224448888				Recovery =	105.51%	
14) i 2154_1br2nb	1.160	1.229	334.0E6	236.8E6	25.000	25.000
23) i 4268_1br2nb	1.160	1.229	334.0E6	236.8E6	25.000	25.000
34) i 1248_1br2nb	1.160	1.229	334.0E6	236.8E6	25.000	25.000
40) i 3262_1br2nb	1.160	1.229	334.0E6	236.8E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.602	300.8E6	203.3E6	17.176	17.423
Spiked Amount 20.000	Range 30 - 150			Recovery =	85.88%	87.11%
3) s Decachlorobi	4.010	4.525	206.3E6	145.4E6	18.230M4	26.469
Spiked Amount 20.000	Range 30 - 150			Recovery =	91.15%	132.35%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:32
Operator : pest2:meo
Sample : L2433375-07,42,,
Misc : wg1936878,WG1936802,ical21102 (Sig #1); wg1936878,WG1936858,ical21102 (Sig #2)
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:51 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:32
Operator : pest2:meo
Sample : L2433375-07,42,,
Misc : wg1936878,WG1936802,ical21102 (Sig #1); wg1936878,WG1936858,ical21102 (Sig #2)
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:51 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

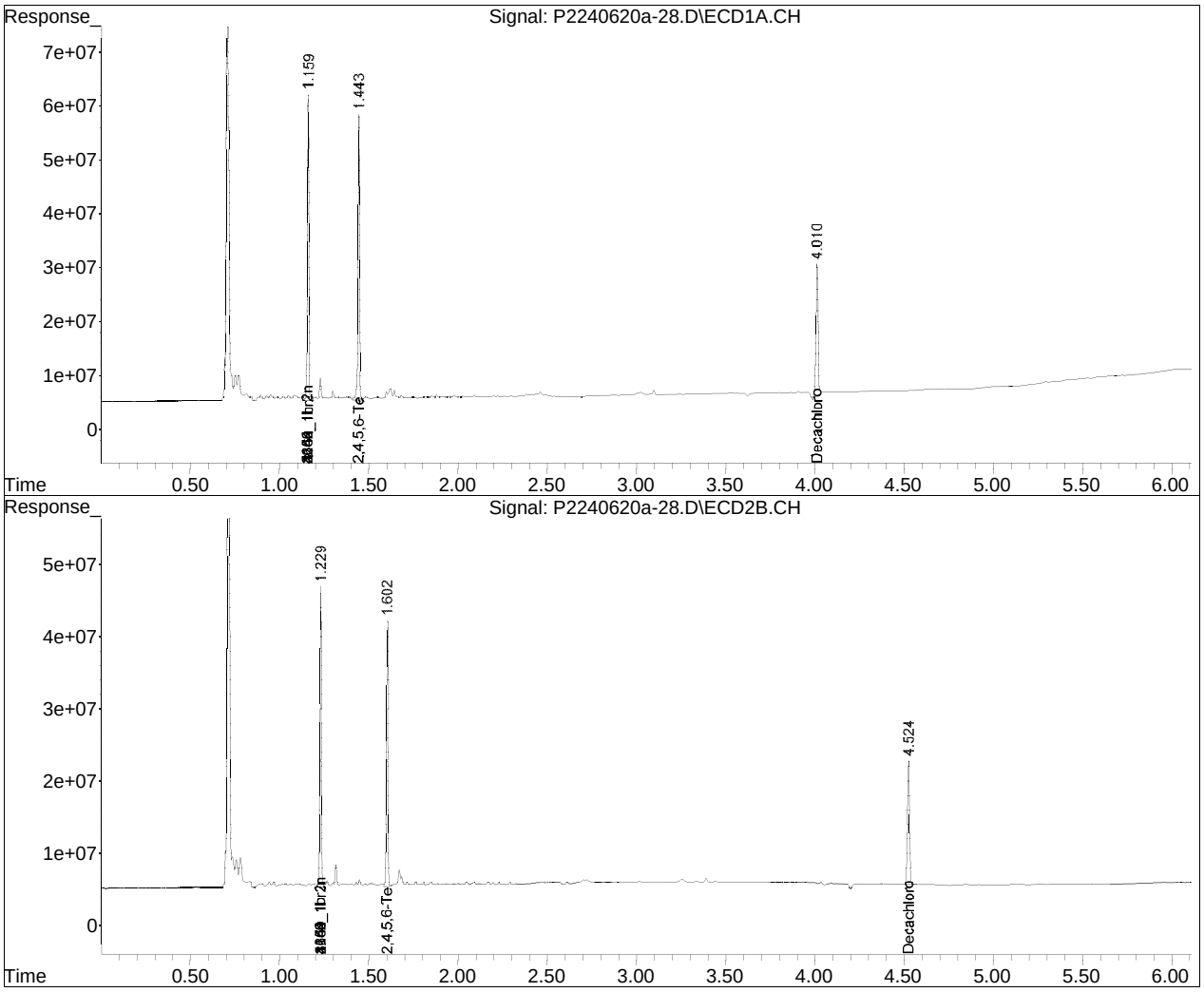
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:32
Operator : pest2:meo
Sample : L2433375-07,42,,
Misc : wg1936878,WG1936802,ical21102 (Sig #1); wg1936878,WG1936858,ical21
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:51 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

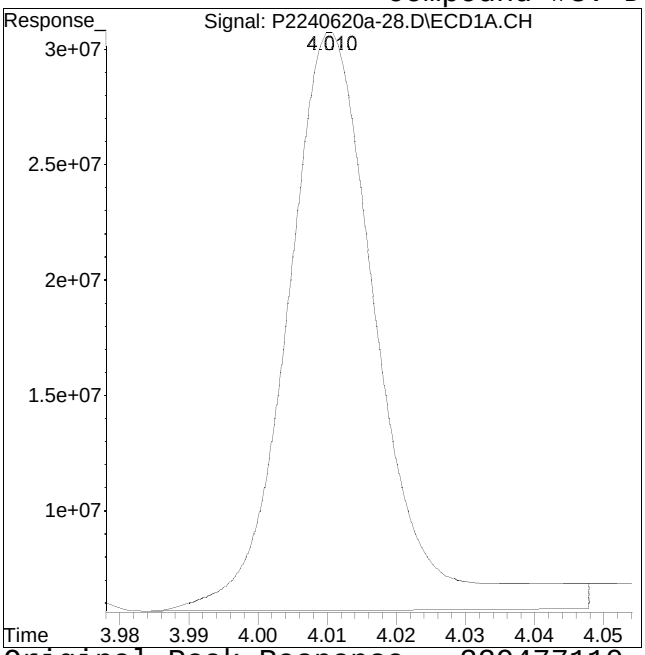
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



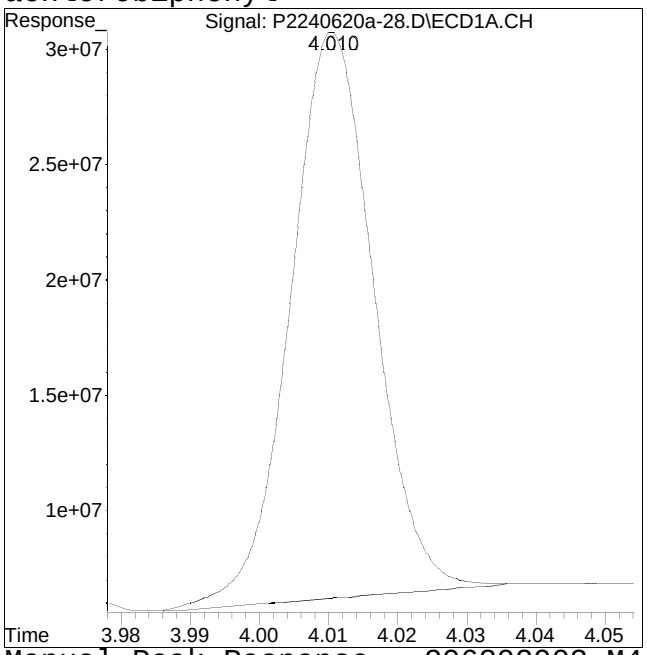
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-28.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:32 Instrument : Pest 2
Sample : L2433375-07,42,, Quant Date : 6/20/2024 11:41 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 229477110



Manual Peak Response = 206302903 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:41
Operator : pest2:meo
Sample : L2433375-08,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 12:06:54 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.161	1.230	337.1E6	241.1E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	110.36%	
Standard Area 1 : #2 = 224448888				Recovery =	107.43%	
14) i 2154_1br2nb	1.161	1.230	337.1E6	241.1E6	25.000	25.000
23) i 4268_1br2nb	1.161	1.230	337.1E6	241.1E6	25.000	25.000
34) i 1248_1br2nb	1.161	1.230	337.1E6	241.1E6	25.000	25.000
40) i 3262_1br2nb	1.161	1.230	337.1E6	241.1E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.602	313.0E6	217.0E6	17.705	18.267
Spiked Amount 20.000	Range 30 - 150			Recovery =	88.52%	91.33%
3) s Decachlorobi	4.010	4.526	215.8E6	152.3E6	18.895M4	27.219
Spiked Amount 20.000	Range 30 - 150			Recovery =	94.47%	136.10%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:41
Operator : pest2:meo
Sample : L2433375-08,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 12:06:54 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:41
Operator : pest2:meo
Sample : L2433375-08,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 12:06:54 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

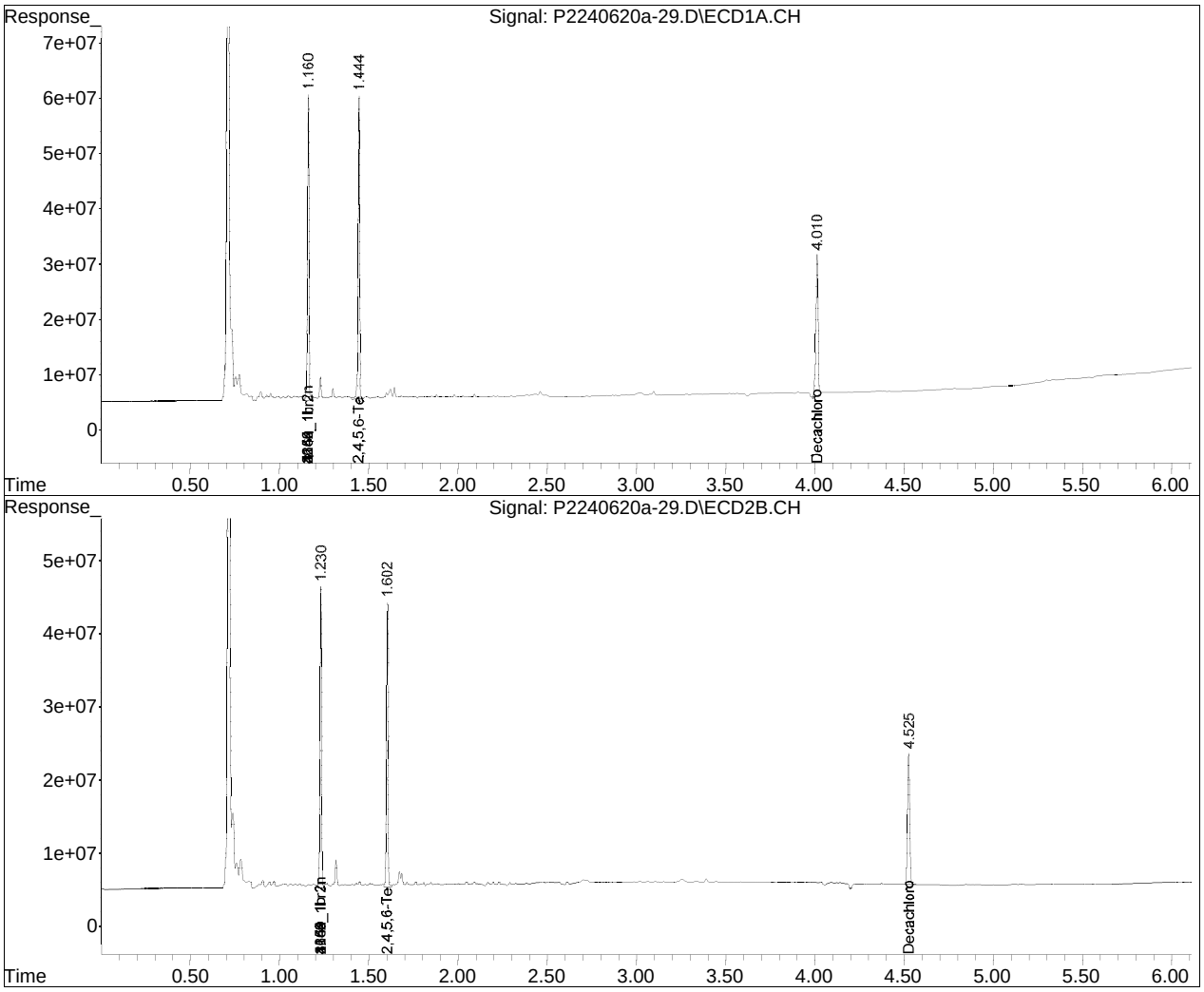
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:41
Operator : pest2:meo
Sample : L2433375-08,42,,
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 12:06:54 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

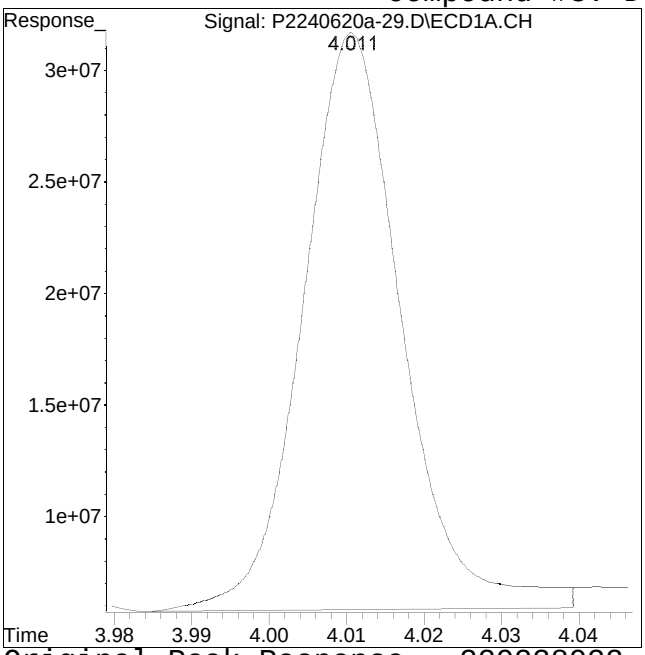
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

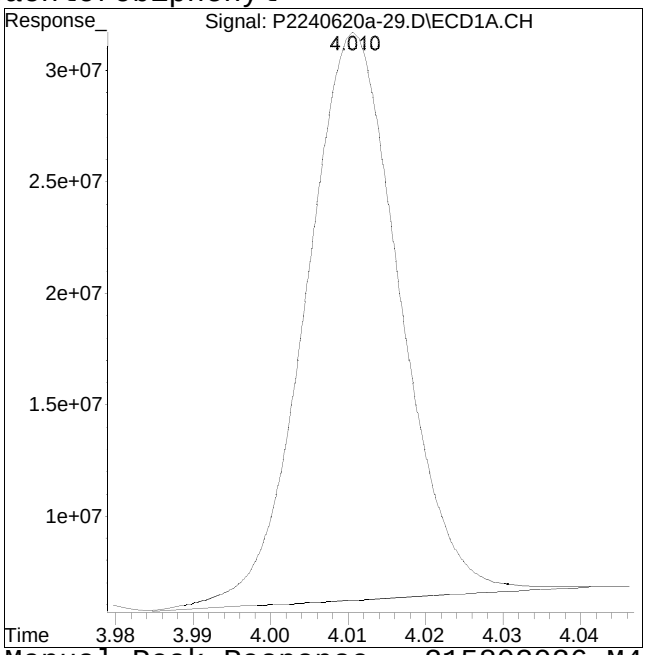


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-29.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:41 Instrument : Pest 2
Sample : L2433375-08,42,, Quant Date : 6/20/2024 12:06 pm

Compound #3: Decachlorobiphenyl





Original Peak Response = 229238922 Manual Peak Response = 215802026 M4
M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.133			0.133	0.00
32)	l9	1268-4				0.058			0.058	0.00
33)	l9	1268-5				0.392			0.392	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.057			0.057	0.00
36)	l7	1248-2				0.074			0.074	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.065			0.065	0.00
38) l7	1248-4				0.058			0.058	0.00
39) l7	1248-5				0.050			0.050	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.026			0.026	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.070			0.070	0.00
47) l8	1262-2				0.091			0.091	0.00
48) l8	1262-3				0.079			0.079	0.00
49) l8	1262-4				0.160			0.160	0.00
50) l8	1262-5				0.050			0.050	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40
3)	s	Decachlorobip	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D

6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.043			0.043	0.00
38) l7	1248-4				0.048			0.048	0.00
39) l7	1248-5				0.054			0.054	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.025			0.025	0.00
42) l5	1232-2				0.025			0.025	0.00
43) l5	1232-3				0.045			0.045	0.00
44) l5	1232-4				0.018			0.018	0.00
45) l5	1232-5				0.013			0.013	0.00
46) l8	1262-1				0.049			0.049	0.00
47) l8	1262-2				0.065			0.065	0.00
48) l8	1262-3				0.059			0.059	0.00
49) l8	1262-4				0.110			0.110	0.00
50) l8	1262-5				0.039			0.039	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip...	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
30) l9	1268-2				0.167			0.167	0.00
31) l9	1268-3				0.133			0.133	0.00
32) l9	1268-4				0.058			0.058	0.00
33) l9	1268-5				0.392			0.392	0.00
34) i	1248_1br2nb	----------ISTD----------							
35) l7	1248-1				0.057			0.057	0.00
36) l7	1248-2				0.074			0.074	0.00
37) l7	1248-3				0.065			0.065	0.00
38) l7	1248-4				0.058			0.058	0.00
39) l7	1248-5				0.050			0.050	0.00
40) i	3262_1br2nb	----------ISTD----------							
41) l5	1232-1				0.026			0.026	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.070			0.070	0.00
47) l8	1262-2				0.091			0.091	0.00
48) l8	1262-3				0.079			0.079	0.00
49) l8	1262-4				0.160			0.160	0.00
50) l8	1262-5				0.050			0.050	0.00

Signal #2 Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra...	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00
37)	l7	1248-3				0.043			0.043	0.00
38)	l7	1248-4				0.048			0.048	0.00
39)	l7	1248-5				0.054			0.054	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.025			0.025	0.00
42)	l5	1232-2				0.025			0.025	0.00
43)	l5	1232-3				0.045			0.045	0.00
44)	l5	1232-4				0.018			0.018	0.00
45)	l5	1232-5				0.013			0.013	0.00
46)	l8	1262-1				0.049			0.049	0.00
47)	l8	1262-2				0.065			0.065	0.00
48)	l8	1262-3				0.059			0.059	0.00
49)	l8	1262-4				0.110			0.110	0.00
50)	l8	1262-5				0.039			0.039	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.158	1.226	376.1E6	277.5E6	25.000M4	25.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.584	1.803	70147651	48400578	248.875	249.806
25) l6	1242-2	1.726	1.975	151.2E6	105.3E6	248.875	249.806
26) l6	1242-3	1.915	2.176	325.9E6	201.7E6	248.875	249.806
27) l6	1242-4	1.970	2.236	130.4E6	81145843	248.875	249.806
28) l6	1242-5	2.324	2.622	101.4E6	60532235	248.875	249.806
Sum	1242-1			779.0E6	497.1E6	1244.373	1249.031
Average	1242-1					248.875	249.806
29) l9	1268-1	3.452	3.878	679.3E6	329.4E6	248.875	249.806
30) l9	1268-2	3.473	3.904	626.5E6	304.6E6	248.875	249.806
31) l9	1268-3	3.575	4.046	499.6E6	249.5E6	248.875	249.806
32) l9	1268-4	3.763	4.198	219.2E6	108.5E6	248.875	249.806
33) l9	1268-5	3.917	4.384	1476.1E6	679.6E6	248.875	249.806
Sum	1268-1			3500.7E6	1671.5E6	N.D.	N.D. D
Average	1268-1					248.875	249.806
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

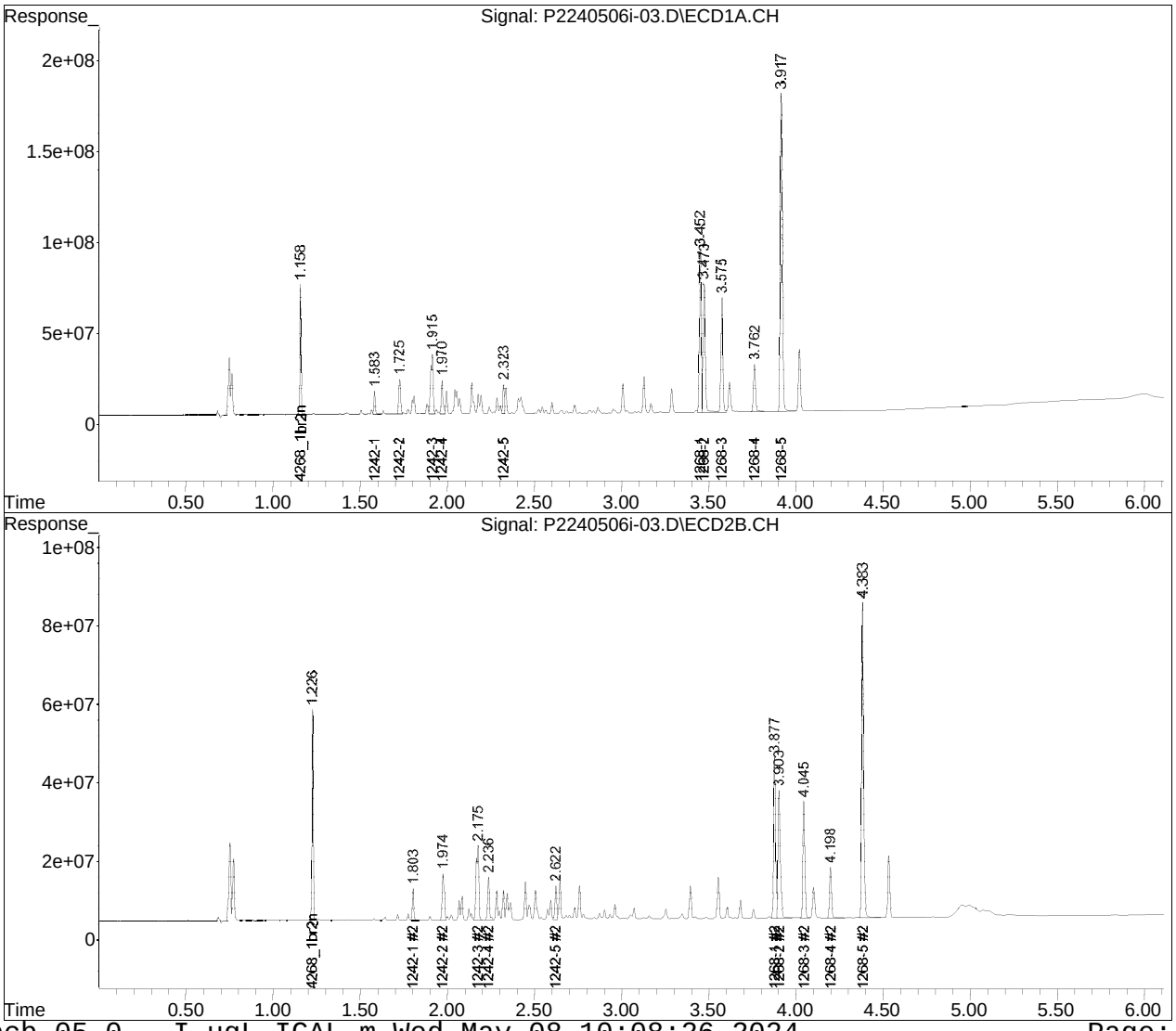
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

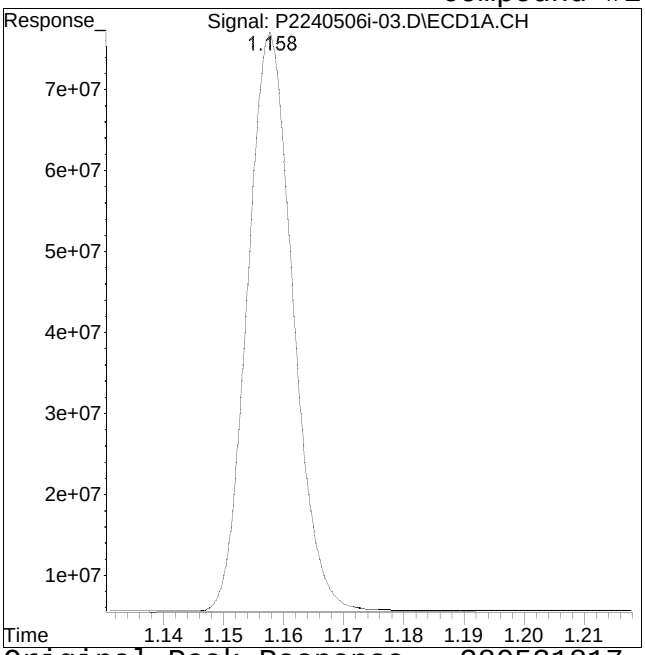
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

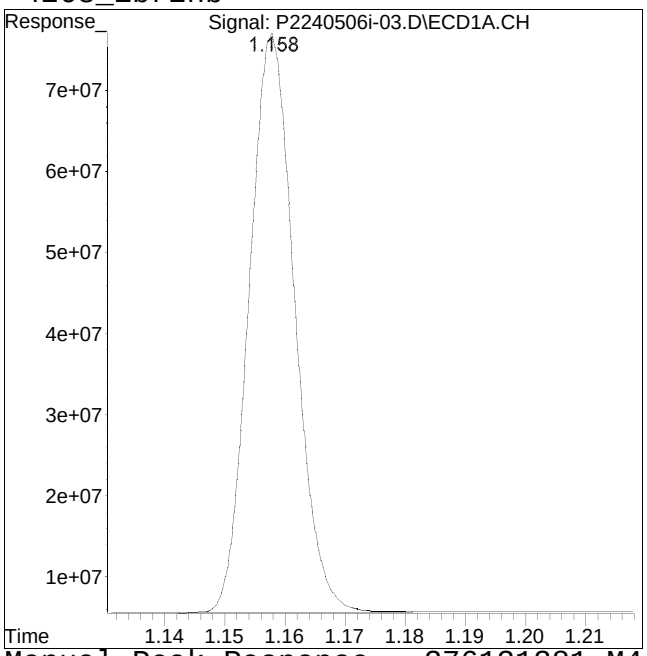


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #23: 4268_1br2nb



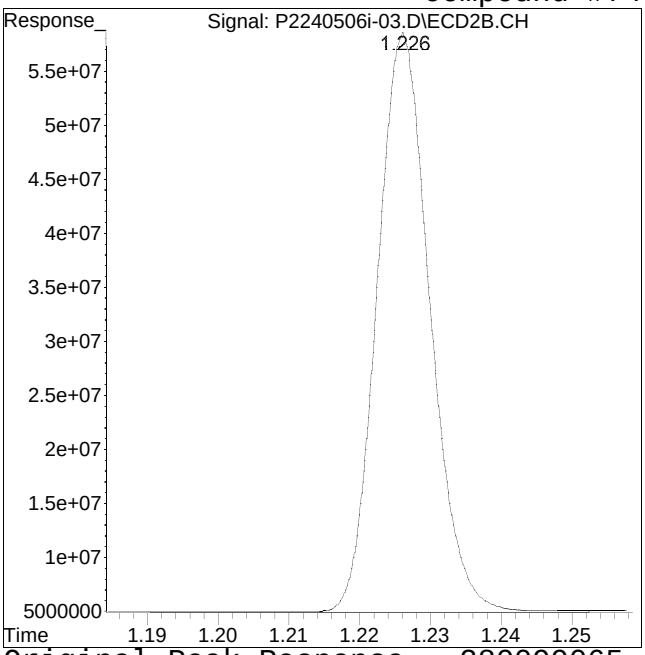


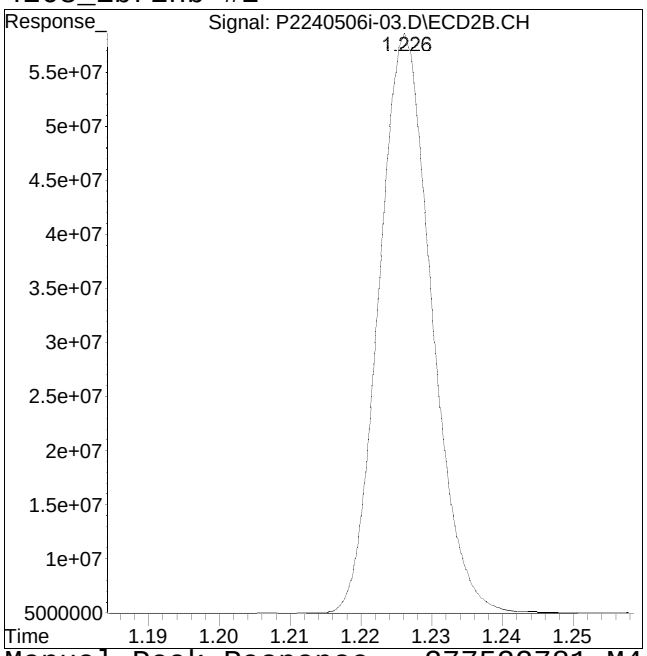
Original Peak Response = 380531817 Manual Peak Response = 376131381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #74: 4268_1br2nb #2





Original Peak Response = 280099065 Manual Peak Response = 277522781 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.159	1.227	378.8E6	271.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.584	1.804	98916572	67532754	250.000	250.000
42) l5	1232-2	1.726	1.975	90910466	67081964	250.000	250.000
43) l5	1232-3	1.915	2.177	190.1E6	121.6E6	250.000	250.000
44) l5	1232-4	1.971	2.237	77287496	49144931	250.000	250.000
45) l5	1232-5	2.324	2.624	56698612	35277580	250.000	250.000
Sum	1232-1			514.0E6	340.6E6	1250.000	1250.000
Average	1232-1					250.000	250.000
46) l8	1262-1	2.816	3.160	266.8E6	132.0E6	250.000	250.000
47) l8	1262-2	3.008	3.394	343.3E6	176.7E6	250.000	250.000
48) l8	1262-3	3.131	3.553	300.5E6	160.2E6	250.000	250.000
49) l8	1262-4	3.287	3.682	606.5E6	298.5E6	249.567M3	250.000
50) l8	1262-5	3.762	4.200	188.6E6	105.4E6	250.000	250.000
Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

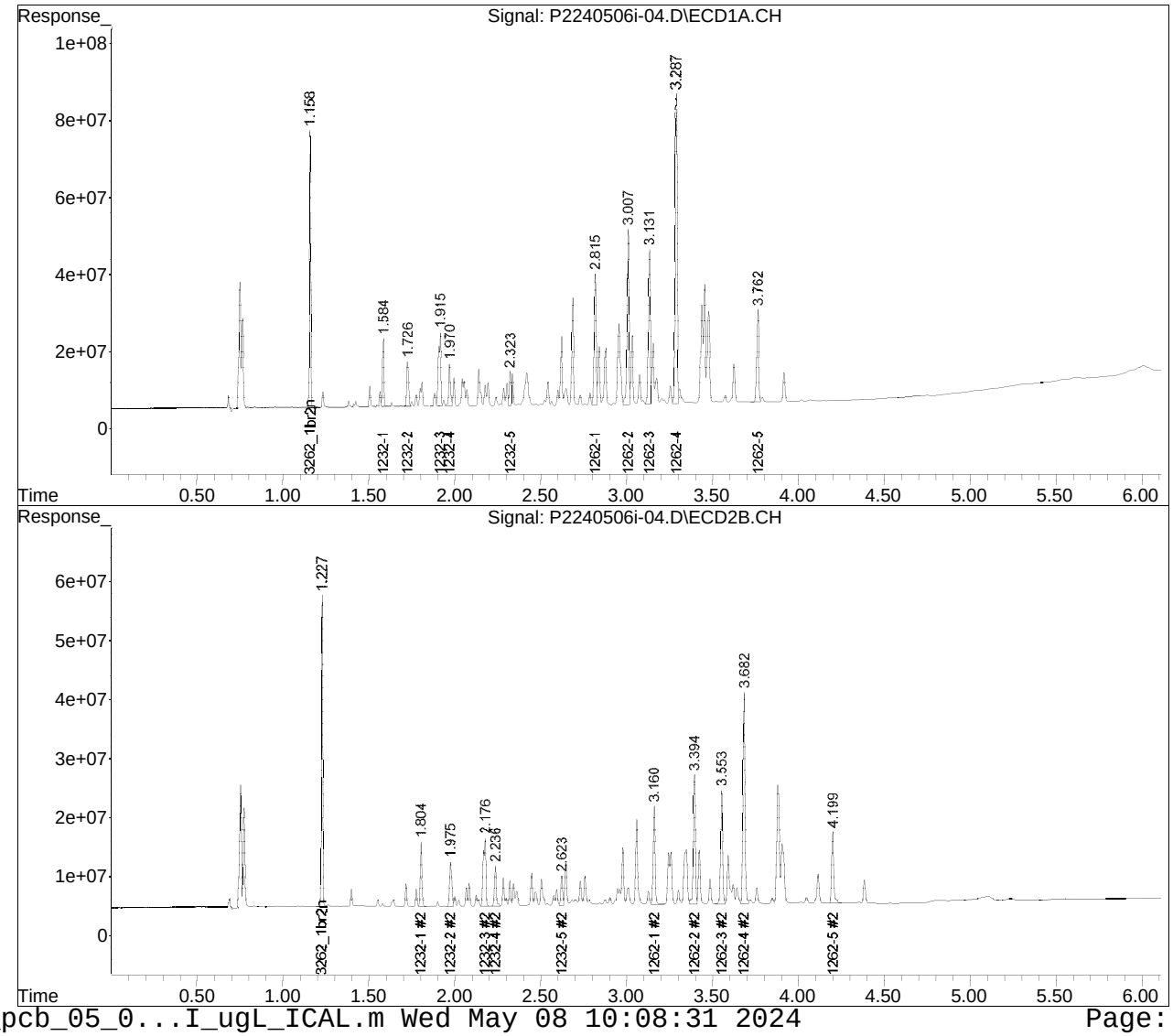
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

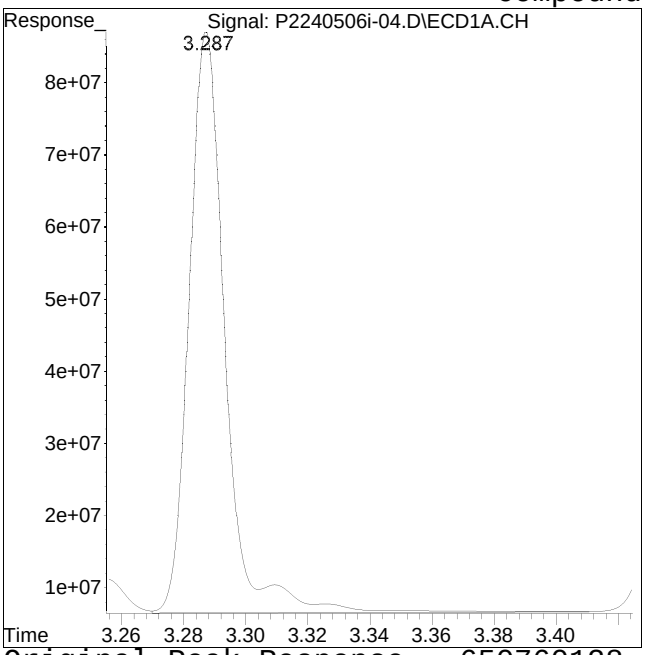
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

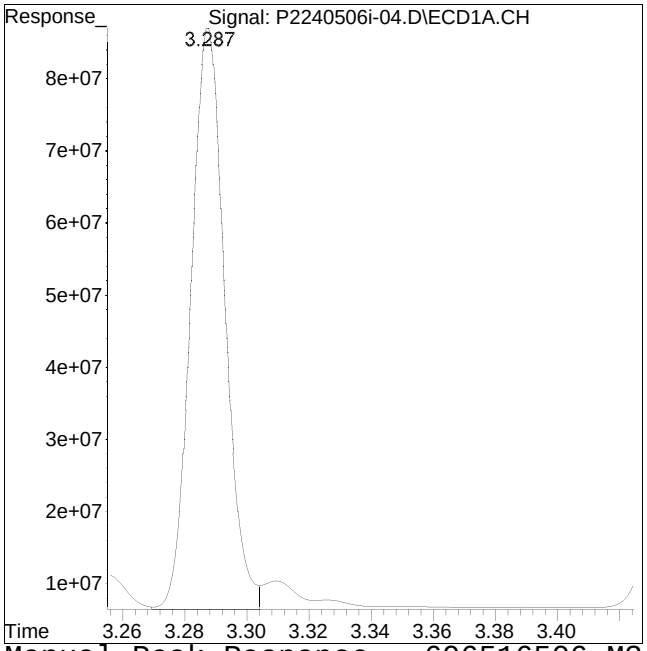


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-04.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:59 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 5/7/2024 3:43 pm

Compound #49: 1262-4





Original Peak Response = 650760128 Manual Peak Response = 606516506 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.159	1.228	395.7E6	290.0E6	25.000	25.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.907	2.167	225.8E6	150.7E6	250.000	245.071M1
36) l7	1248-2	2.045	2.322	291.3E6	99774187	248.952M1	250.000
37) l7	1248-3	2.141	2.448	257.5E6	125.4E6	250.000	250.000
38) l7	1248-4	2.324	2.624	229.7E6	138.0E6	250.000	250.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.336	2.647	199.1E6	157.4E6	260.778	250.000
Sum	1248-1			1203.4E6	671.4E6	N.D.	N.D. D
Average	1248-1					251.946	249.014
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

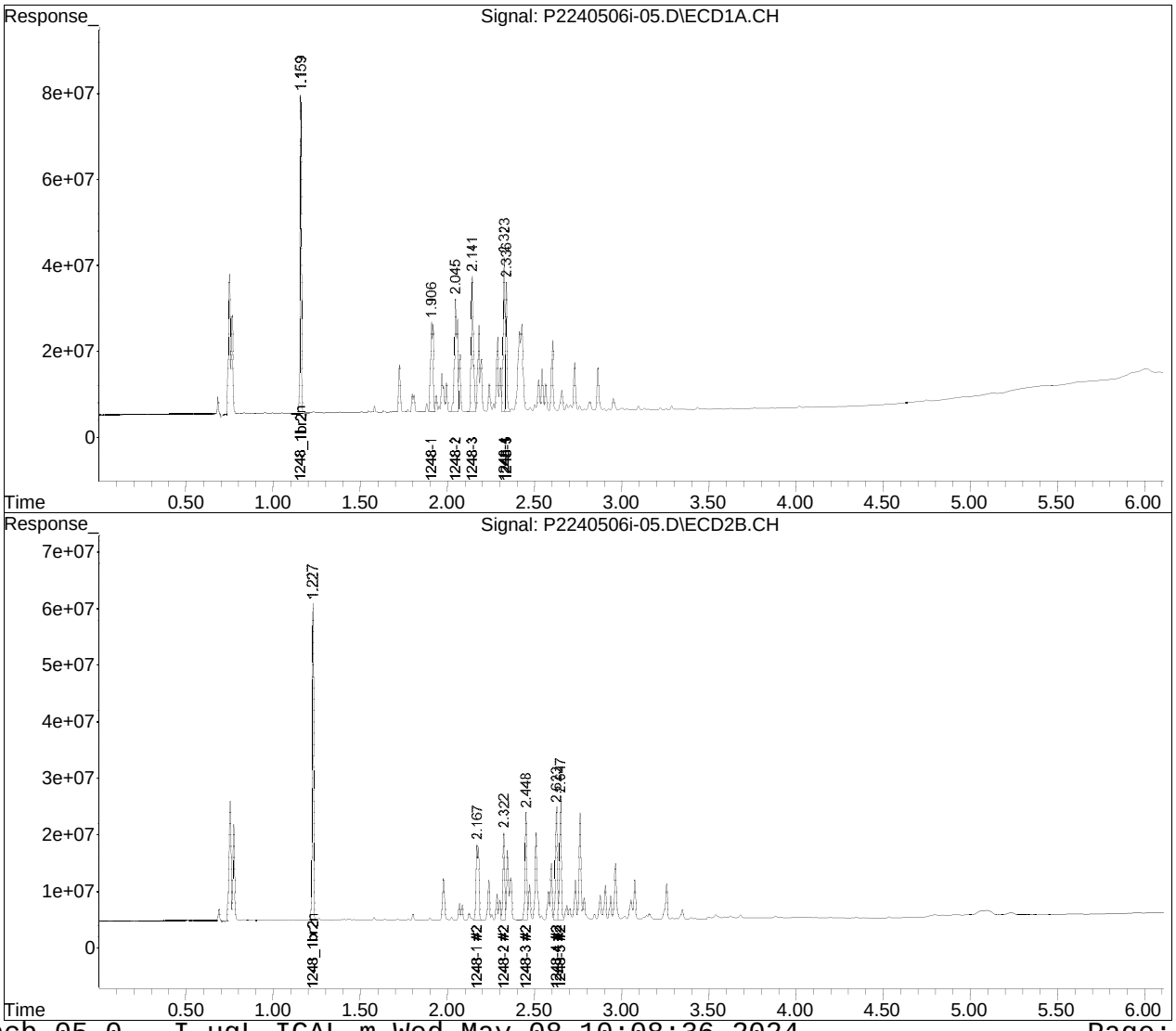
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

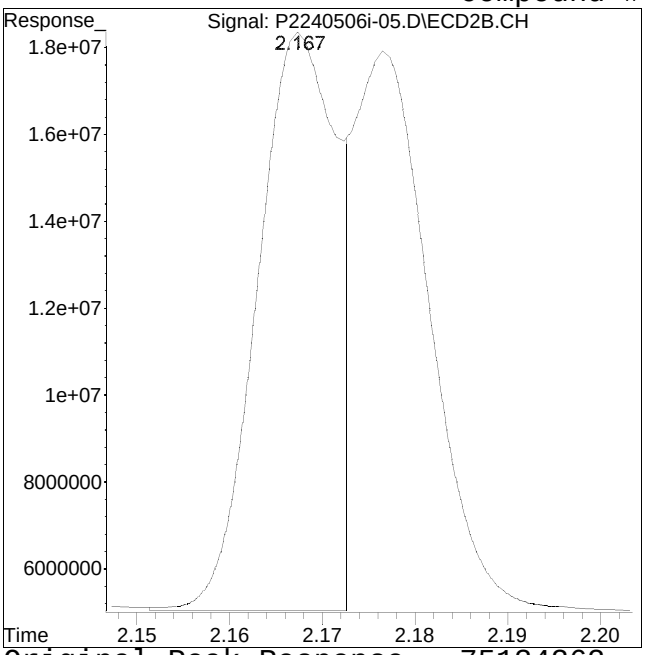
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

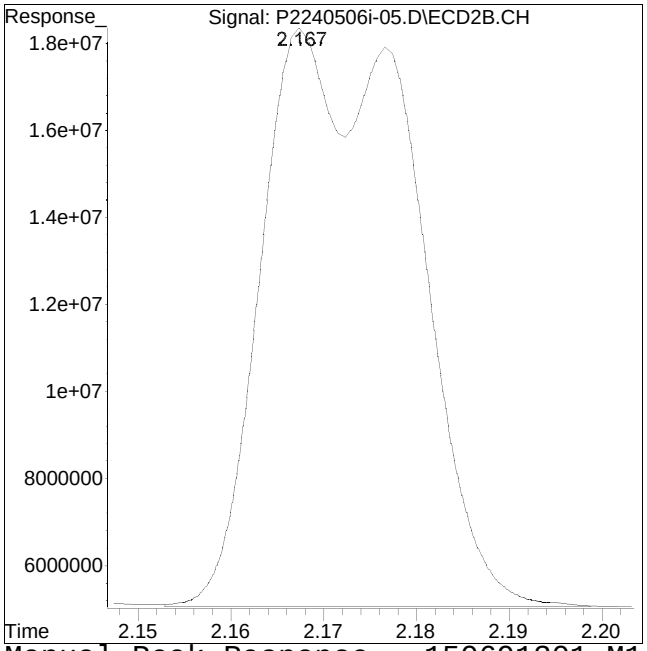


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #86: 1248-1 #2



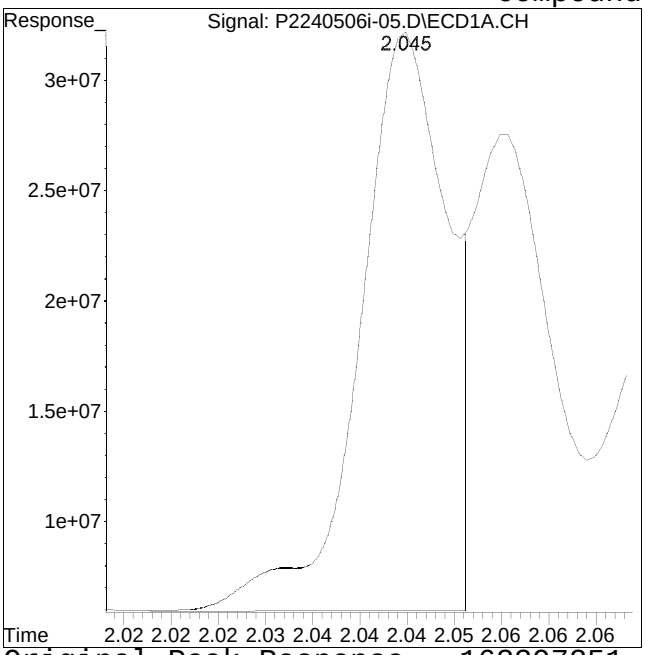


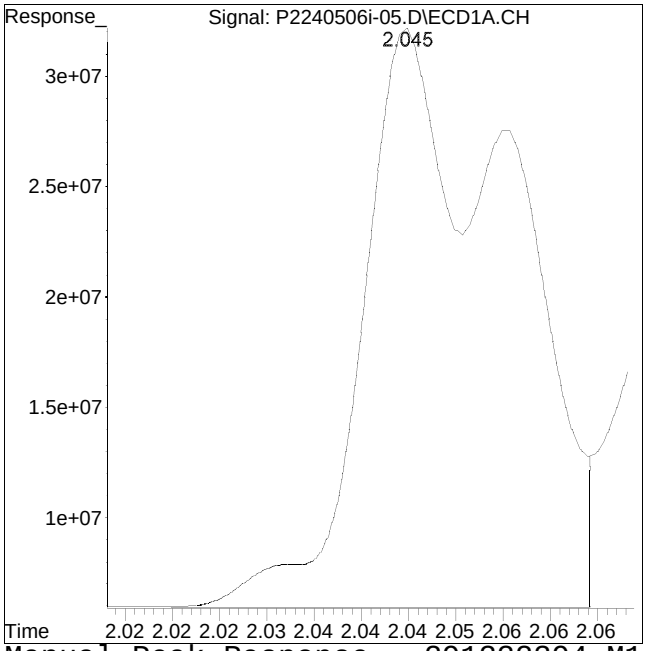
Original Peak Response = 75134262 Manual Peak Response = 150691301 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #36: 1248-2





Original Peak Response = 163397251 Manual Peak Response = 291332394 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.159	1.228	368.2E6	270.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.508	1.719	55425335	41450915	258.591	253.137
16) l3	1221-3	1.567	1.779	34088987	25570999	258.782M3	253.137

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	1.584	1.805	133.6E6	92463612	259.046M3	253.137
Sum	1221-2			223.1E6	159.5E6	776.419	759.412
Average	1221-2					258.806	253.137
18) l4	1254-1	2.305	2.646	189.9E6	126.2E6	256.824M3	253.137
19) l4	1254-2	2.418	2.733	334.3E6	143.9E6	253.515M3	253.137
20) l4	1254-3	2.602	2.963	362.1E6	212.5E6	258.591	253.137
21) l4	1254-4	2.732	3.074	253.4E6	140.0E6	258.591	269.685
22) l4	1254-5	2.954	3.350	347.6E6	193.6E6	258.591	253.137
Sum	1254-1			1487.3E6	816.2E6	N.D.	N.D. D
Average	1254-1					257.222	256.447
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

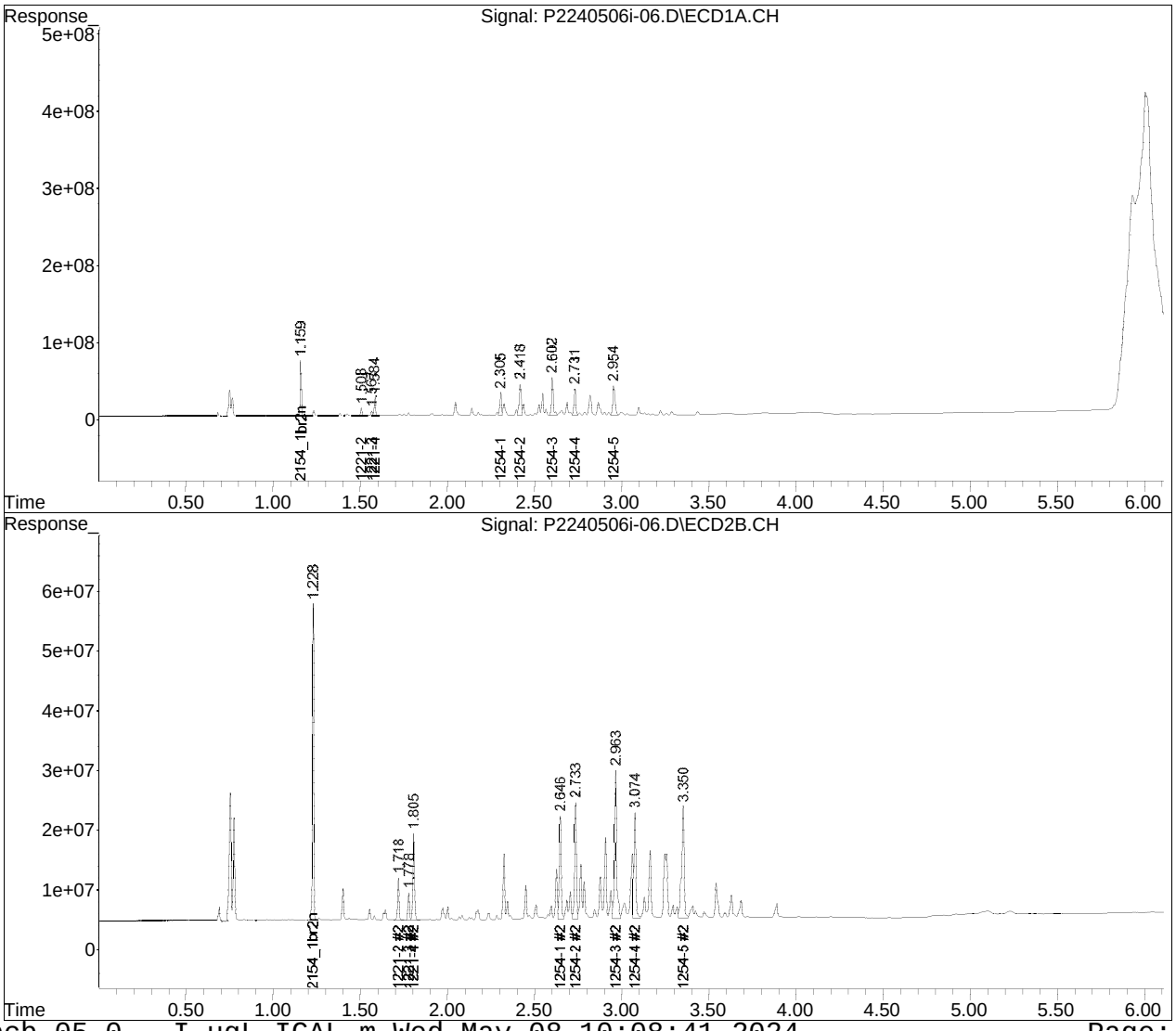
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

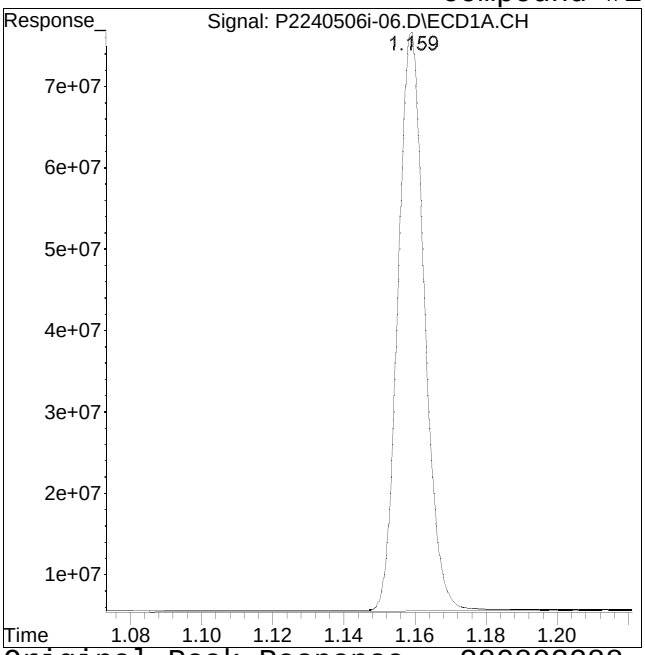
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

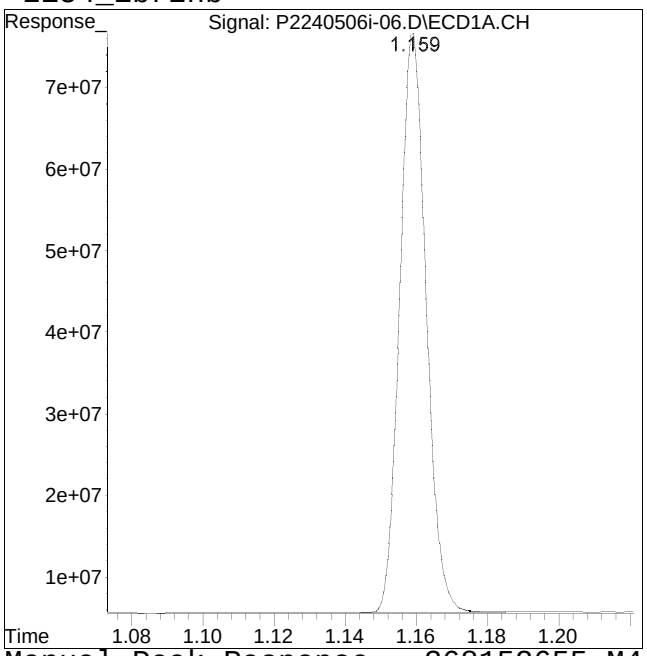


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #14: 2154_1br2nb



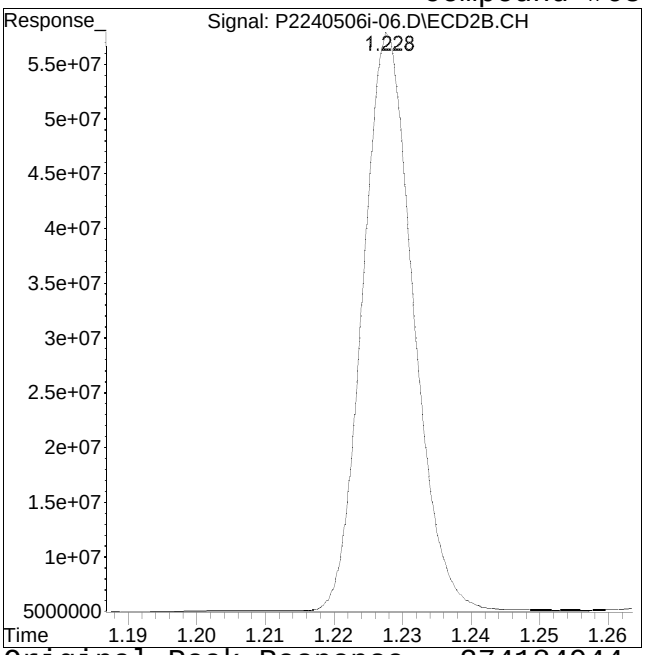


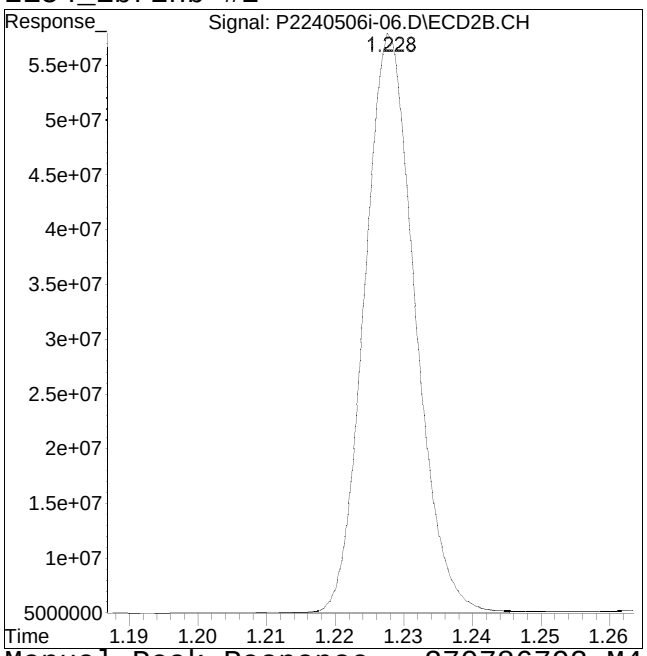
Original Peak Response = 380803288 Manual Peak Response = 368152655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #65: 2154_1br2nb #2



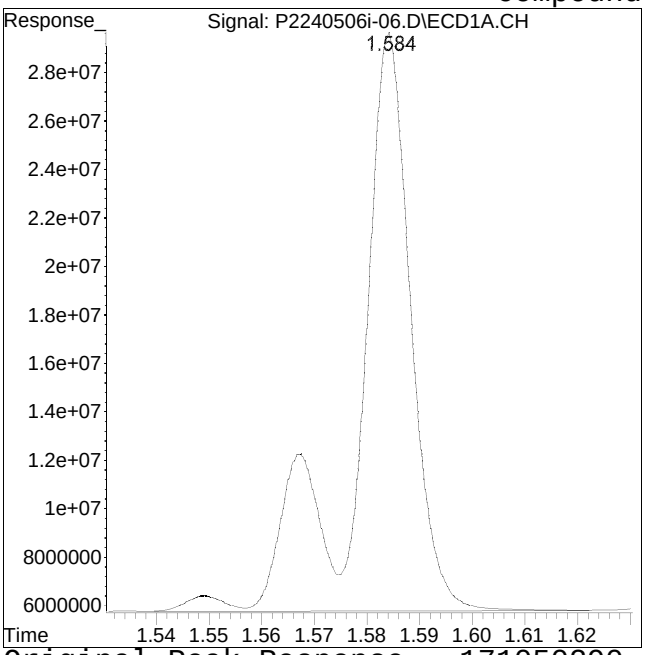


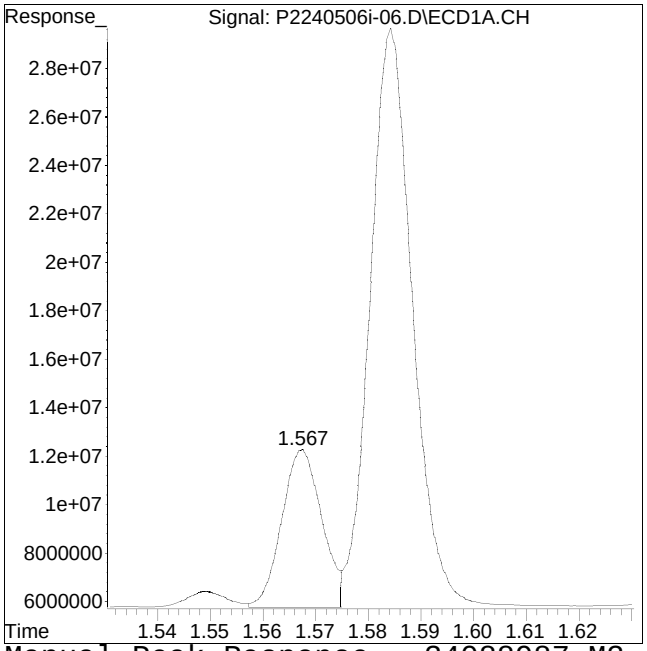
Original Peak Response = 274184944 Manual Peak Response = 270786792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #16: 1221-3



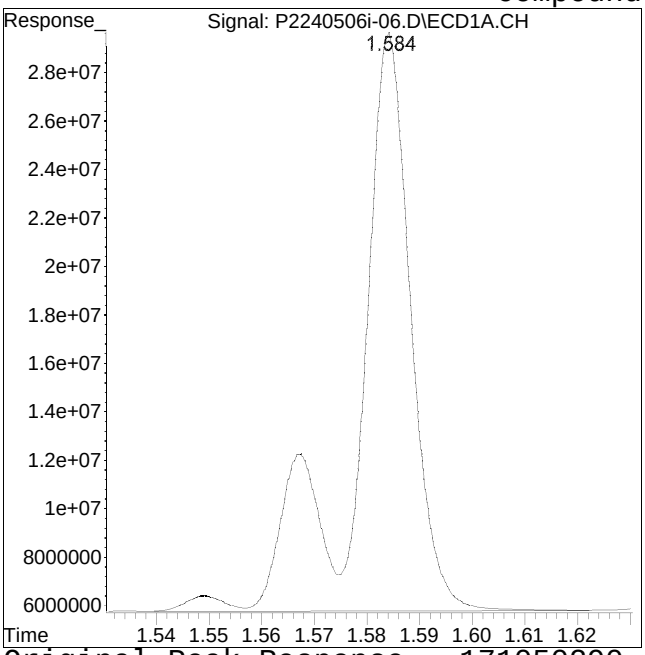


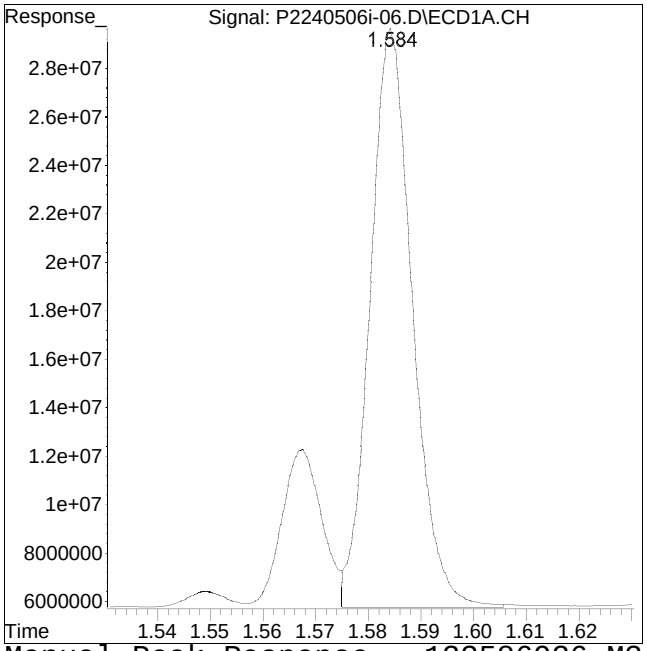
Original Peak Response = 171050290 Manual Peak Response = 34088987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #17: 1221-4



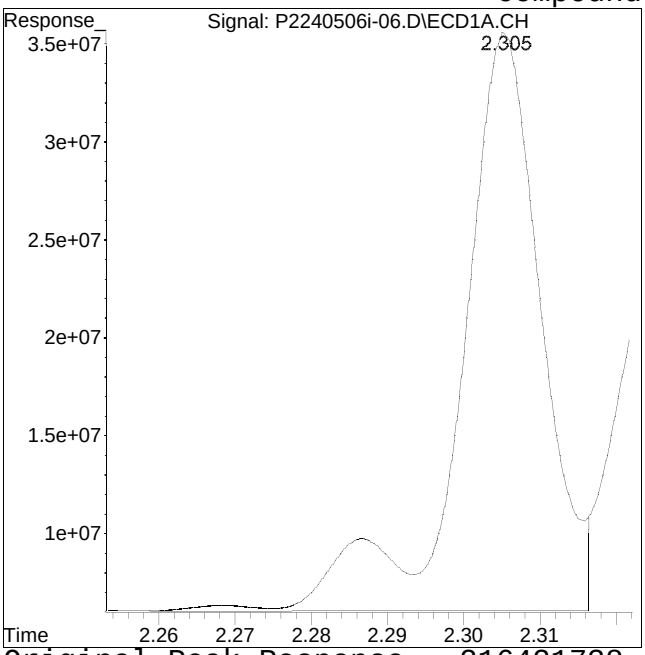


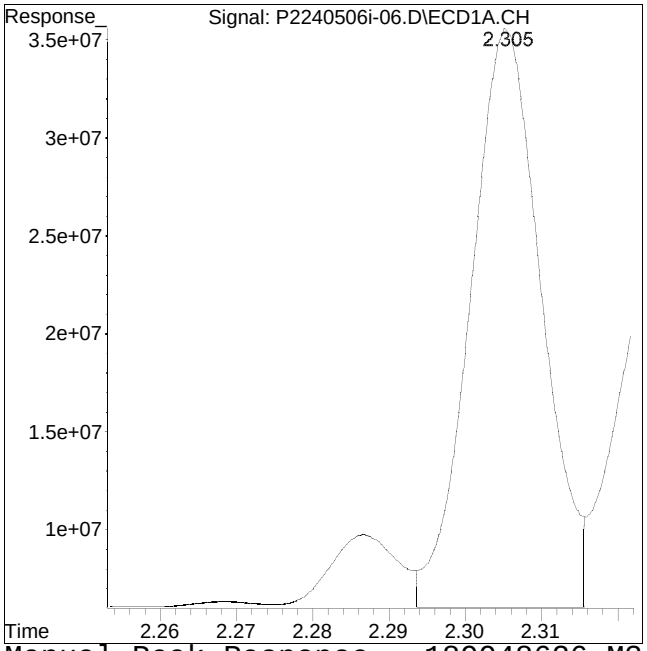
Original Peak Response = 171050290 Manual Peak Response = 133586936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #18: 1254-1



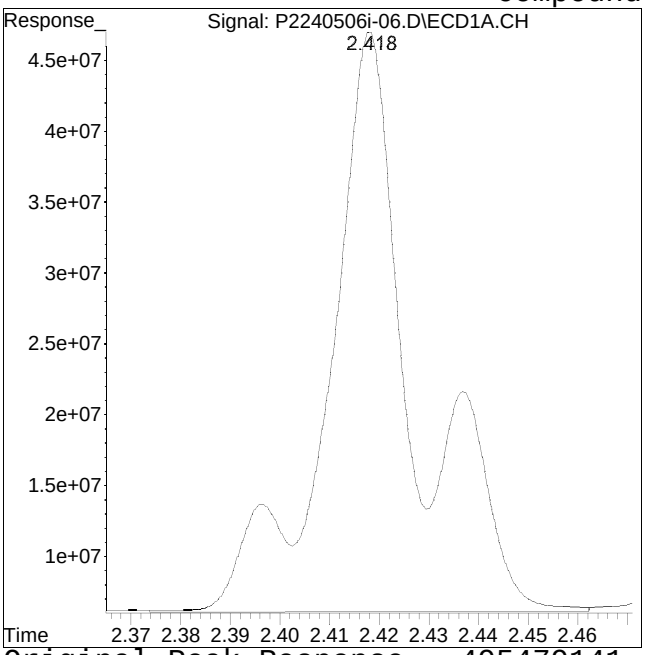


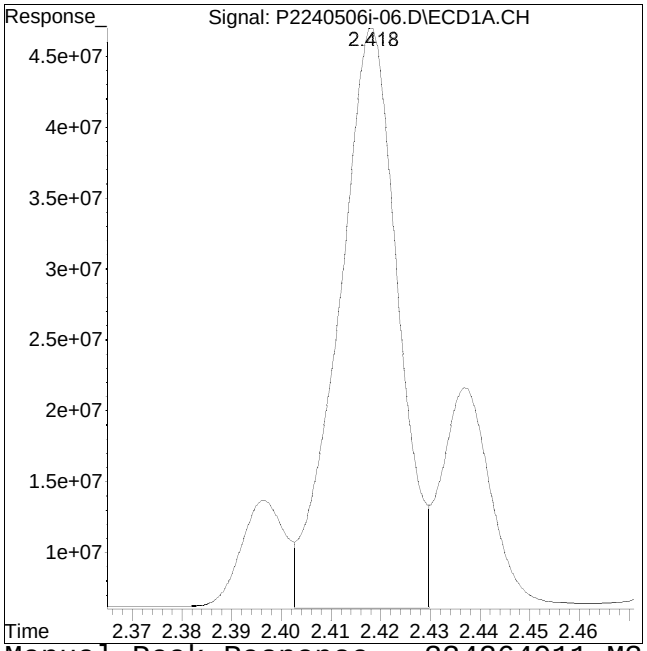
Original Peak Response = 216421738 Manual Peak Response = 189948626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #19: 1254-2





Original Peak Response = 495479141 Manual Peak Response = 334264911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	427.9E6	307.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	67030846	48767818	2.923	3.001
	Spiked Amount 20.000	Range 30 - 150		Recovery =		14.62%#	15.00%#
3) s	Decachlorobi	4.021	4.535	89819738	49489705	1.018M4	6.253M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		5.09%#	31.26%
	Target Compounds						
4) l1	1016-1	1.586	1.806	19864562	14014682	44.922	49.629
5) l1	1016-2	1.727	1.978	44044956	31223629	51.763M1	49.840
6) l1	1016-3	1.917	2.179	83622291	59884413	46.126	47.891
7) l1	1016-4	1.972	2.239	34314487	23349042	46.249M3	46.682
8) l1	1016-5	2.143	2.450	37922778	18676230	46.023	41.140M4
	Sum 1016-1			219.8E6	147.1E6	235.083	235.181
	Average 1016-1					47.017	47.036
9) l2	1260-1	2.686	3.060	55225089	31043678	40.986M4	35.272M4
10) l2	1260-2	2.817	3.162	82457614	38768910	1.109M4	36.451M4
11) l2	1260-3	3.133	3.555	49330916	32395410	38.777M4	37.384
12) l2	1260-4	3.288	3.684	106.8E6	63773305	2.871M4	49.188

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.437	3.886	73865657	44351592	4.149M1	48.488
Sum	1260-1			367.6E6	210.3E6	N.D.	N.D. D
Average	1260-1					17.578	41.356 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

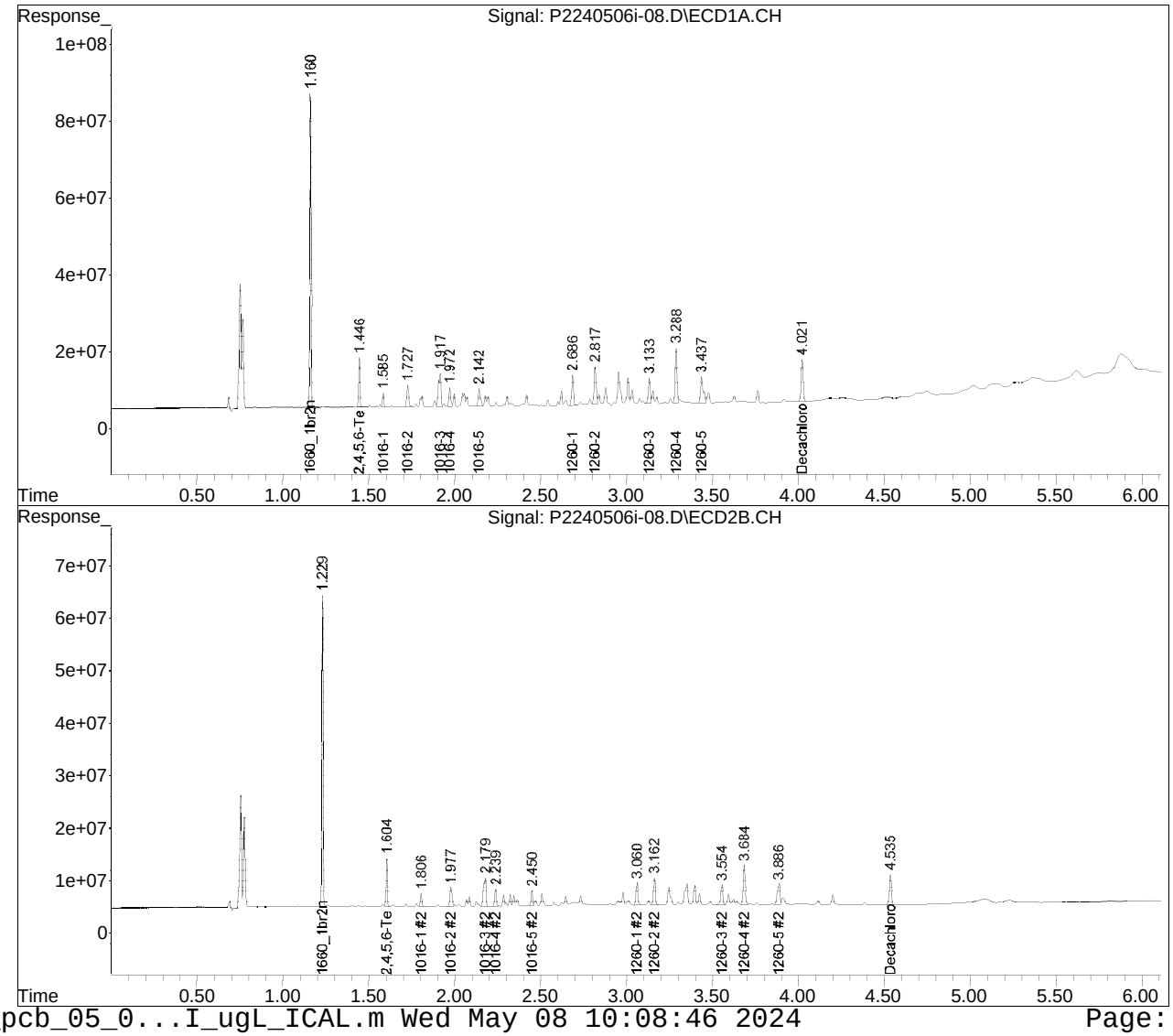
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

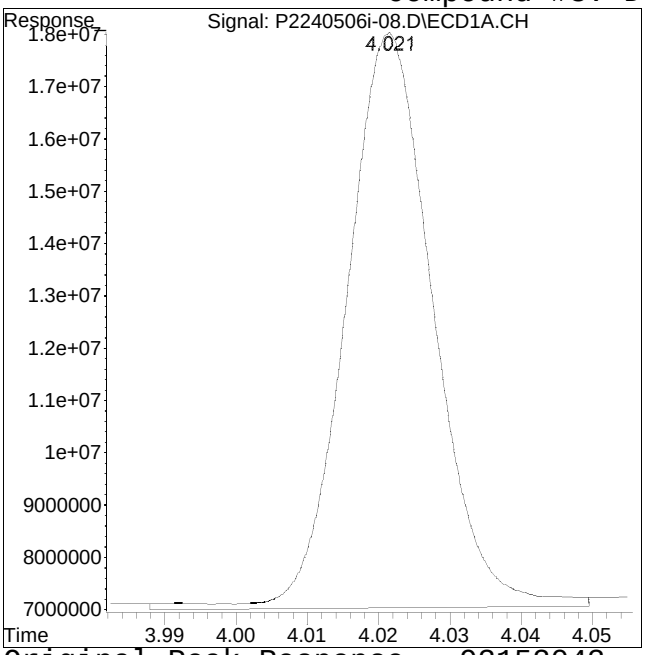
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



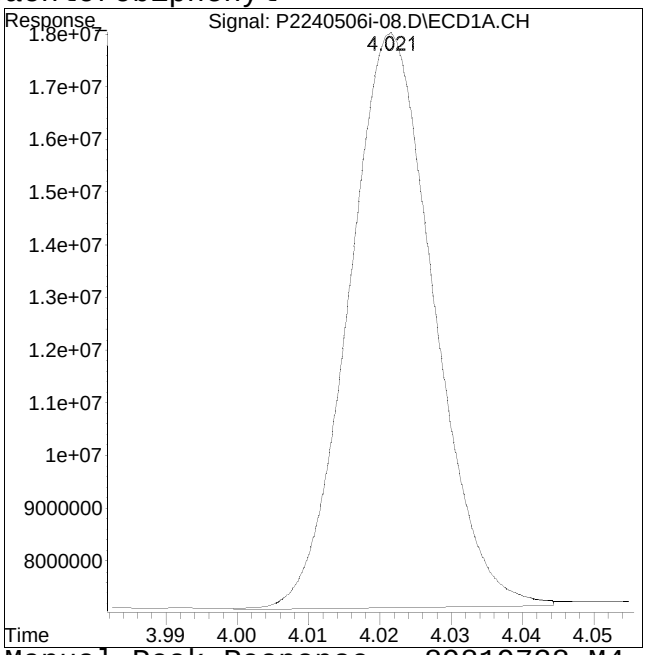
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 93152043



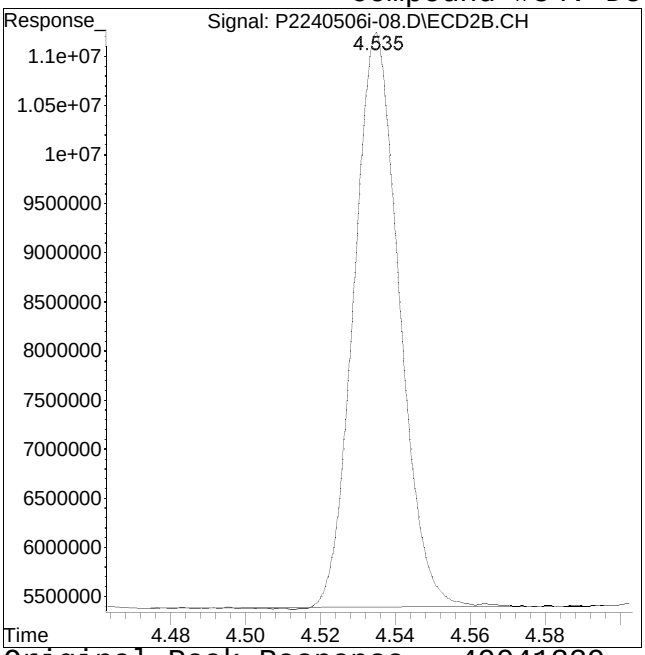
Manual Peak Response = 89819738 M4

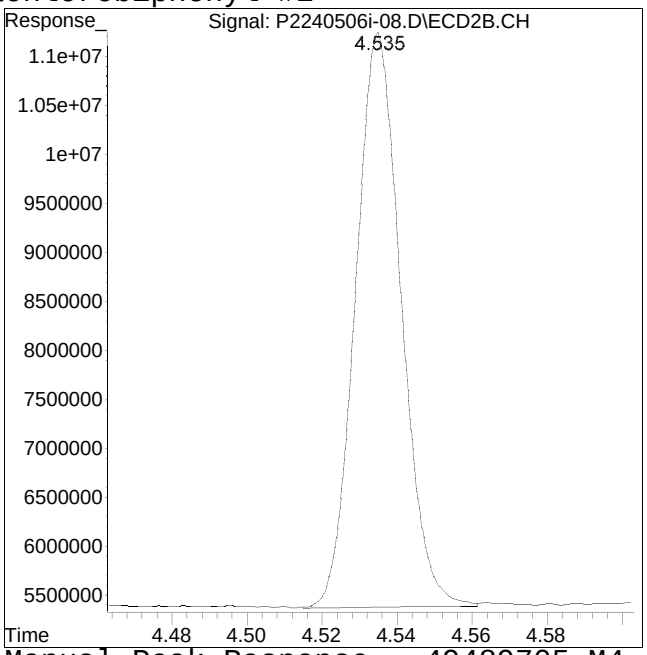
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



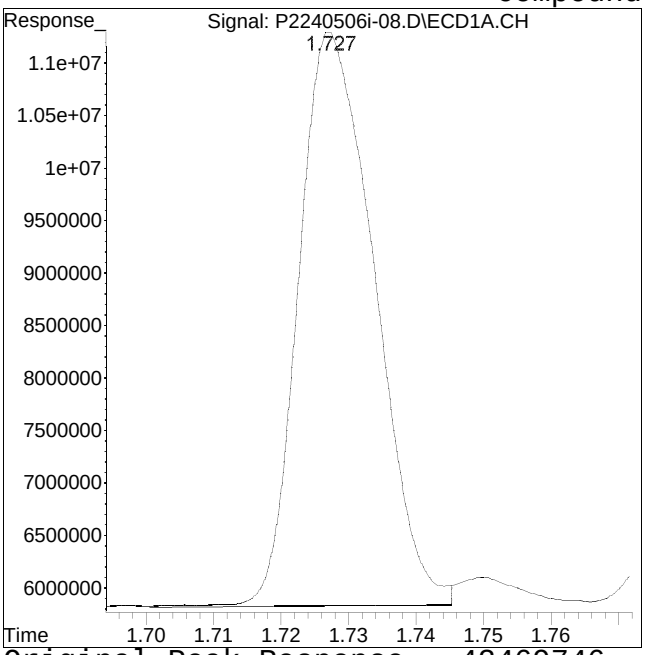


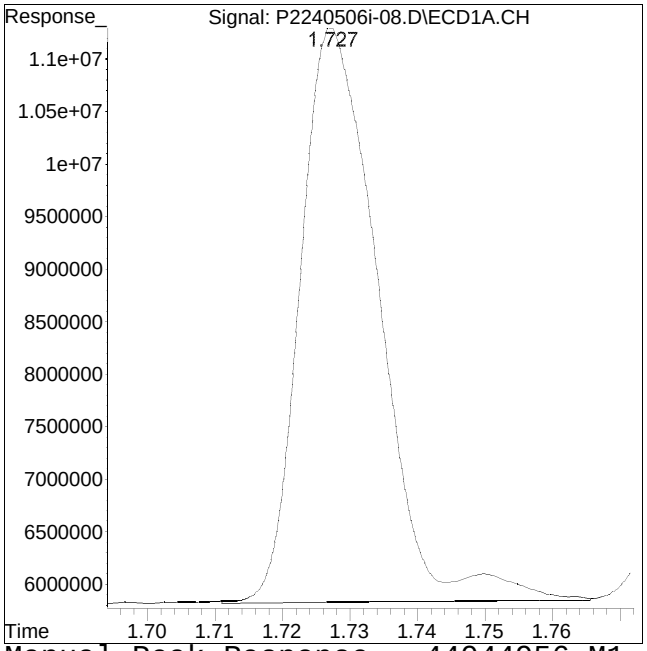
Original Peak Response = 49041339 Manual Peak Response = 49489705 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #5: 1016-2



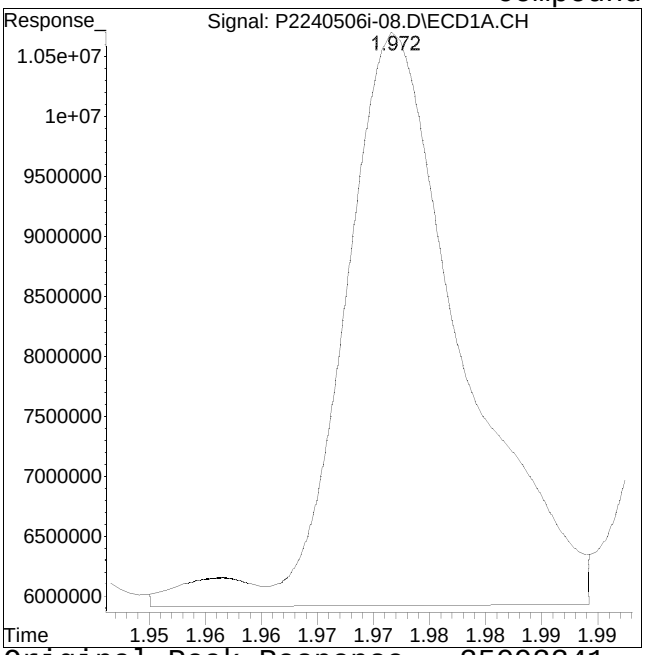


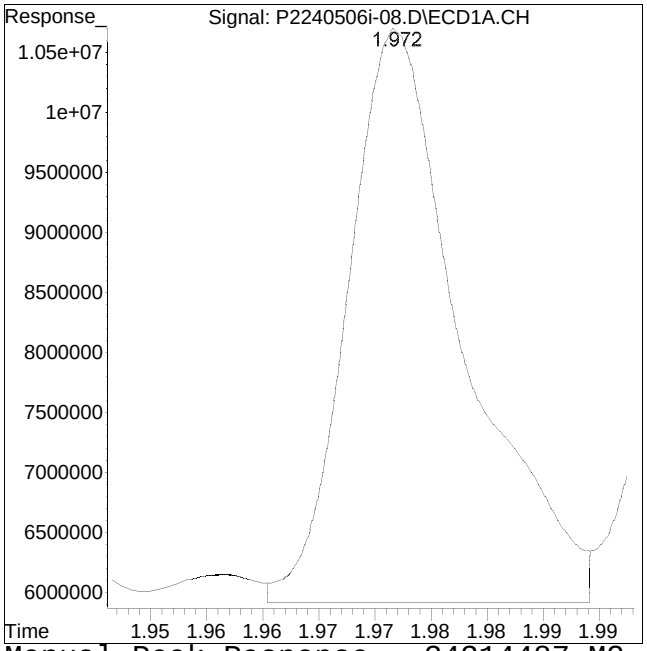
Original Peak Response = 42469746 Manual Peak Response = 44044956 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #7: 1016-4



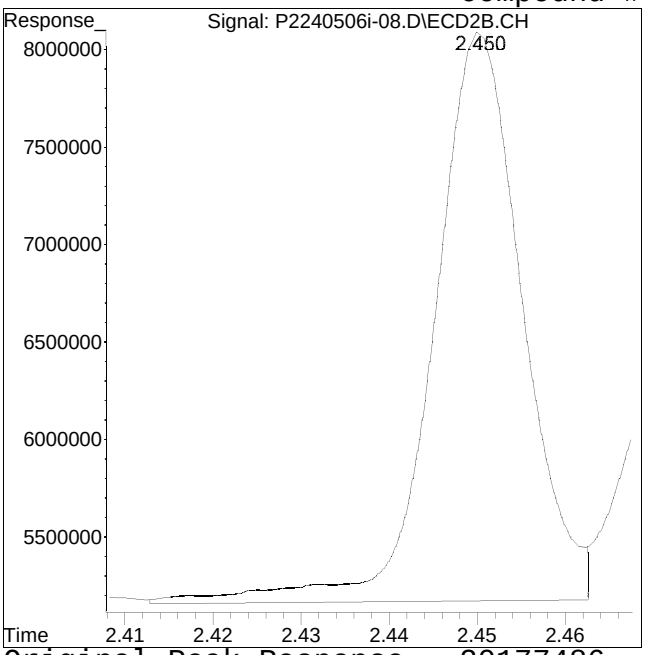


Original Peak Response = 35093341 Manual Peak Response = 34314487 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

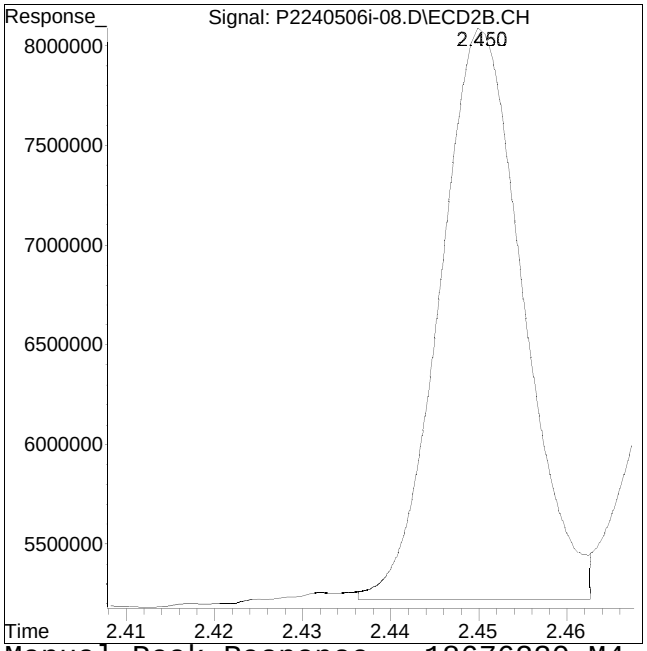
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #59: 1016-5 #2



Original Peak Response = 20177486



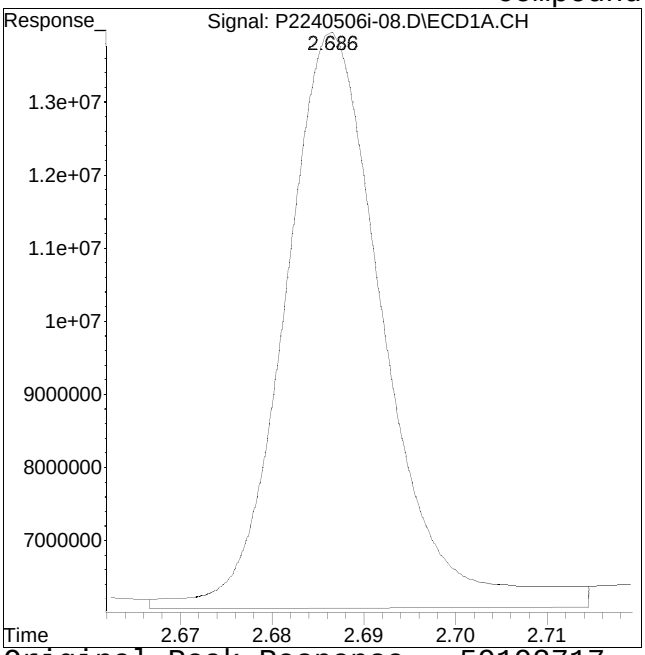
Manual Peak Response = 18676230 M4

M4 = Poor automated baseline construction.

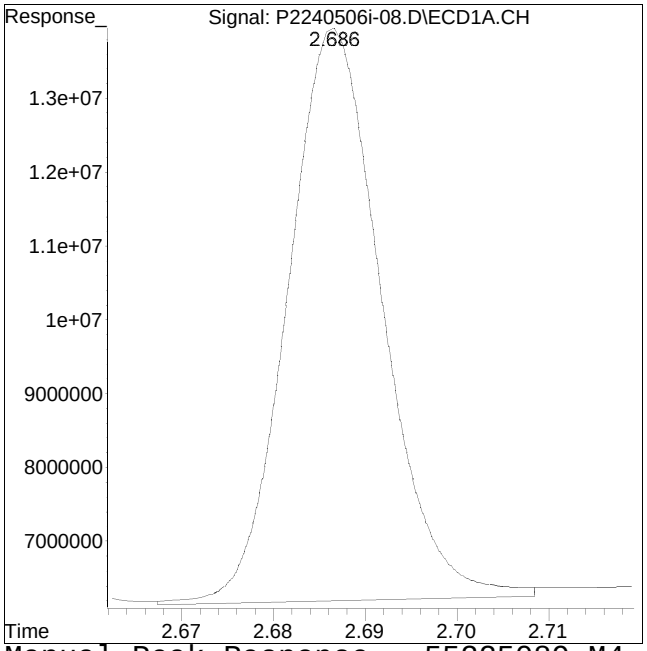
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



Original Peak Response = 59192717



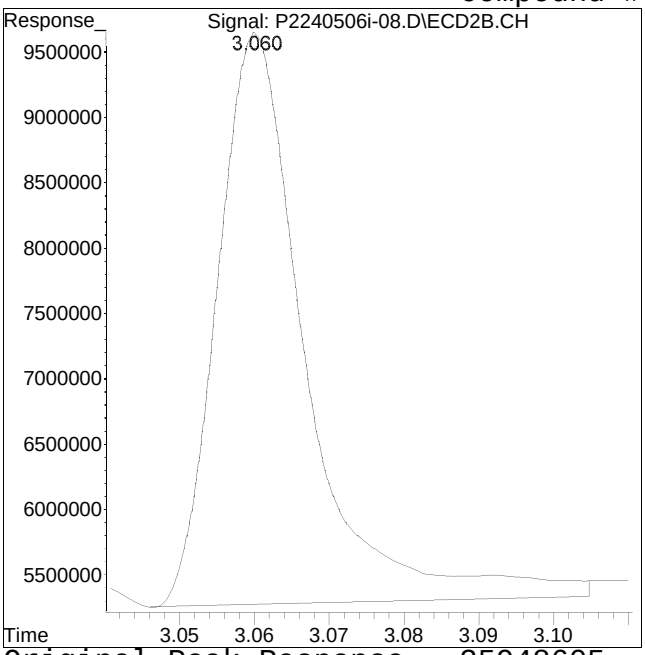
Manual Peak Response = 55225089 M4

M4 = Poor automated baseline construction.

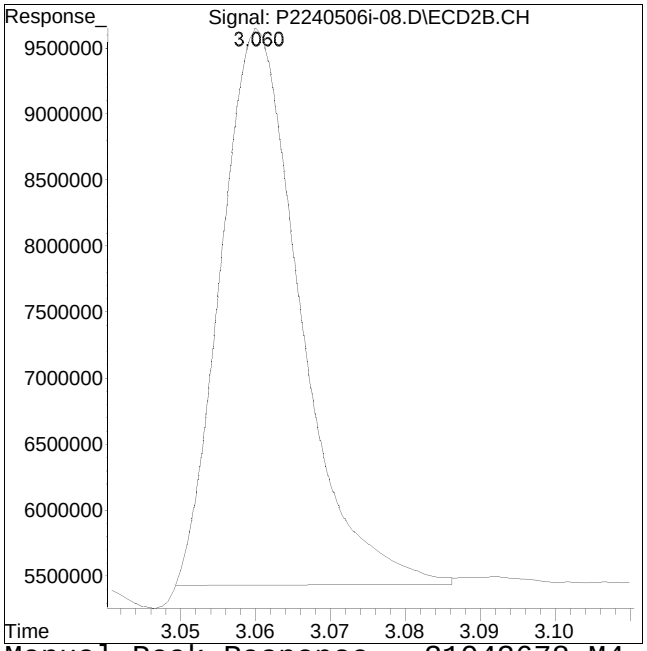
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #60: 1260-1 #2



Original Peak Response = 35948605

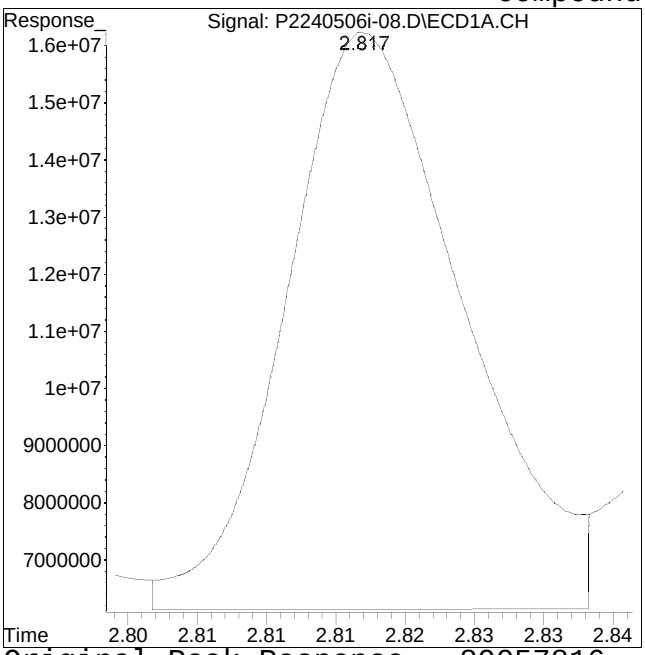


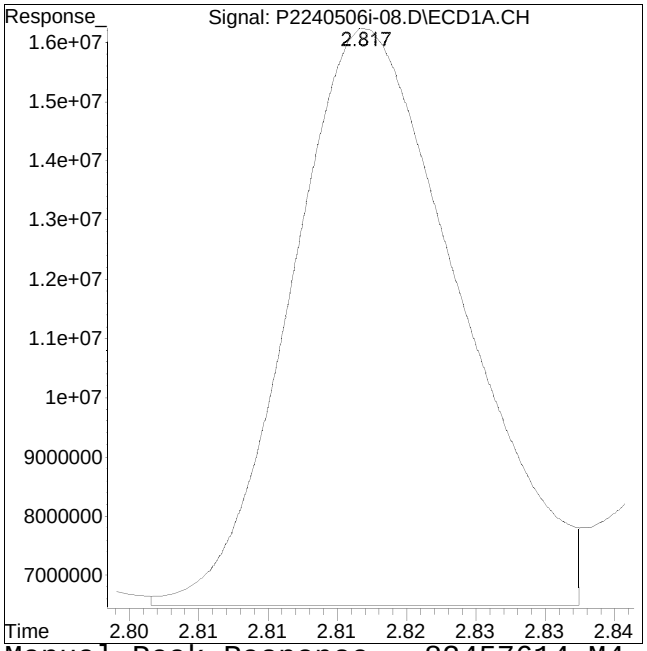
Manual Peak Response = 31043678 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #10: 1260-2



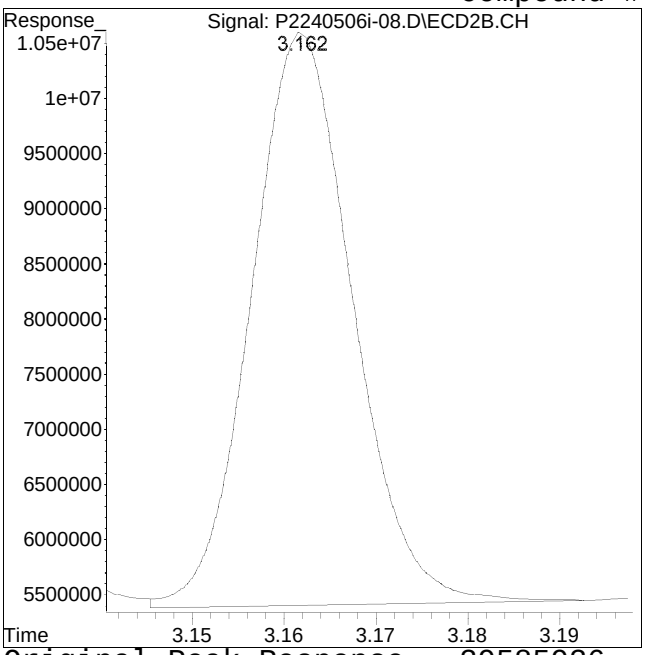


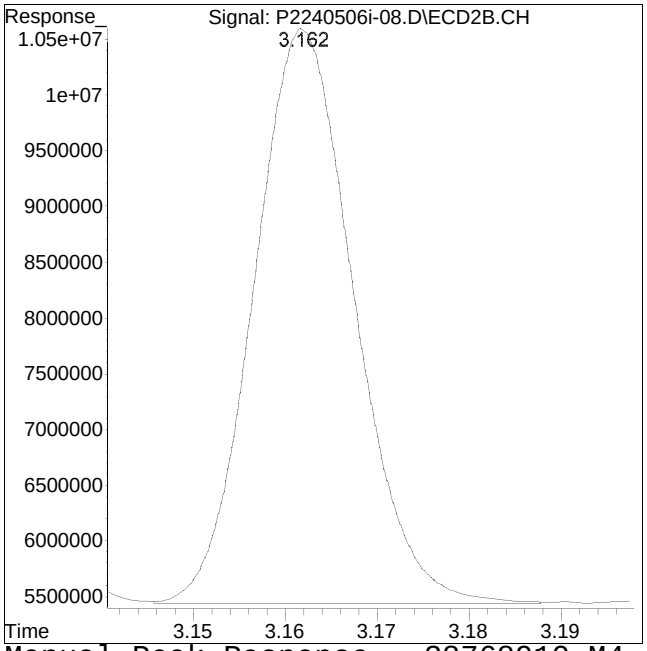
Original Peak Response = 89057816 Manual Peak Response = 82457614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #61: 1260-2 #2



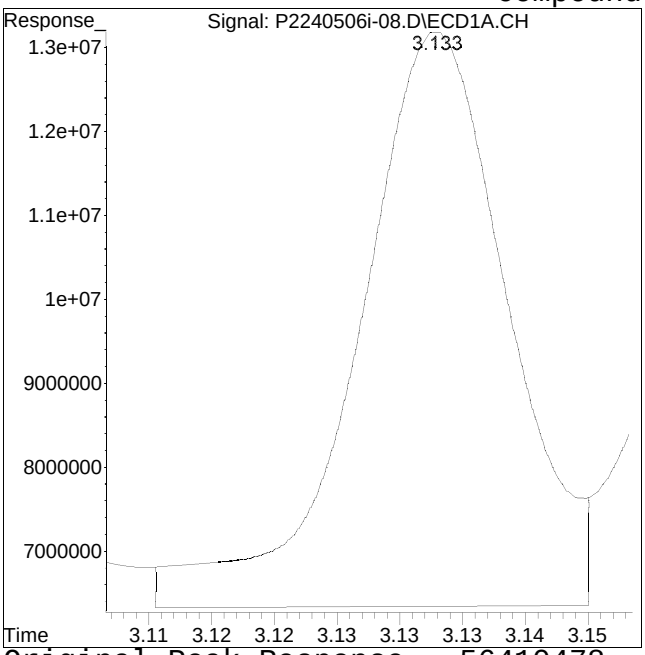


Original Peak Response = 39585936 Manual Peak Response = 38768910 M4
M4 = Poor automated baseline construction.

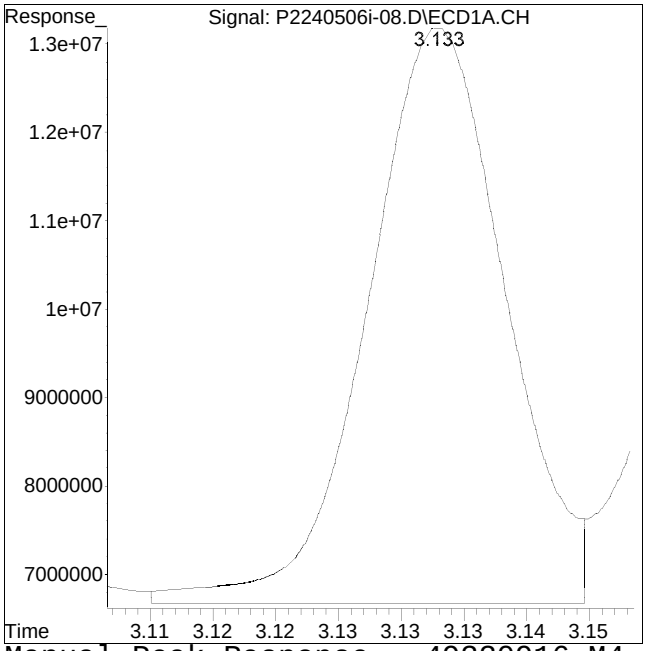
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #11: 1260-3



Original Peak Response = 56410478



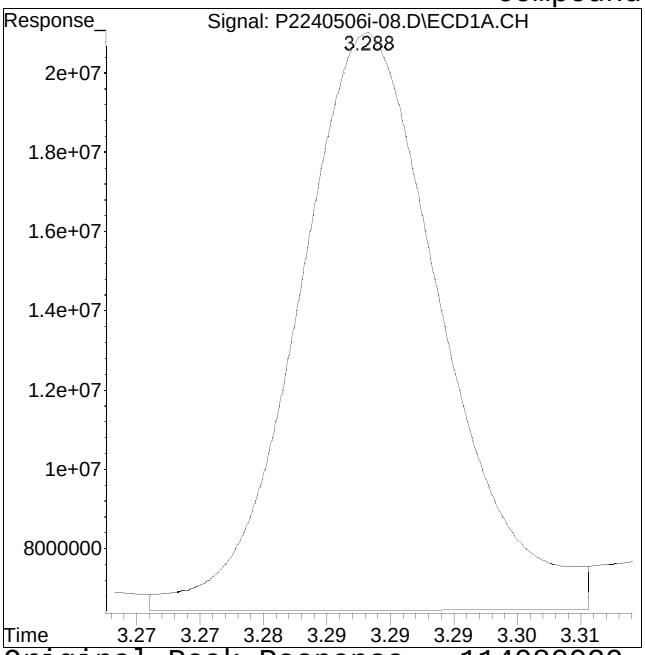
Manual Peak Response = 49330916 M4

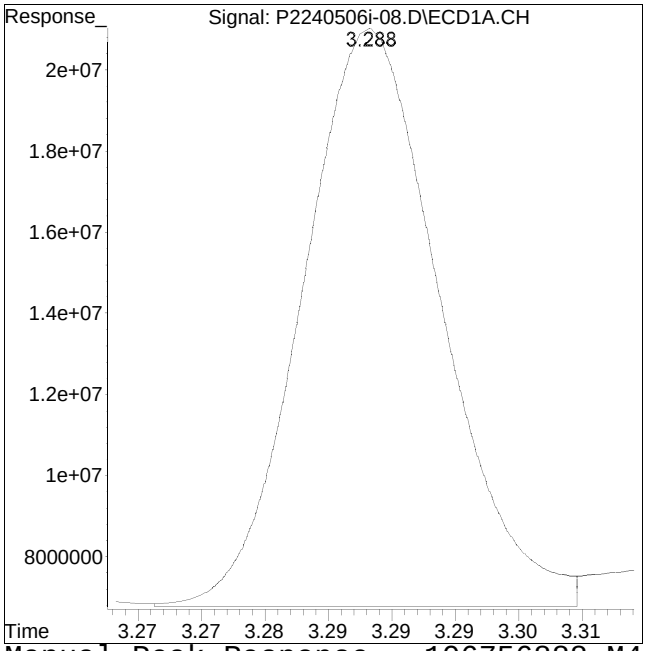
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #12: 1260-4



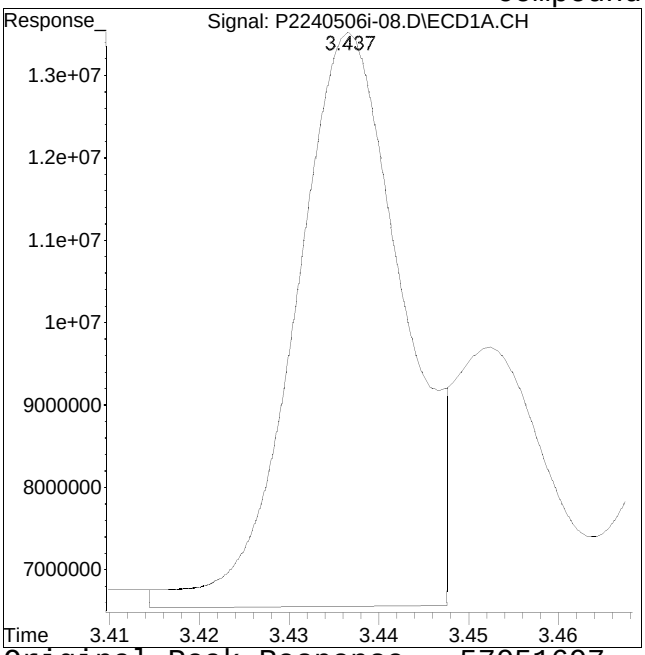


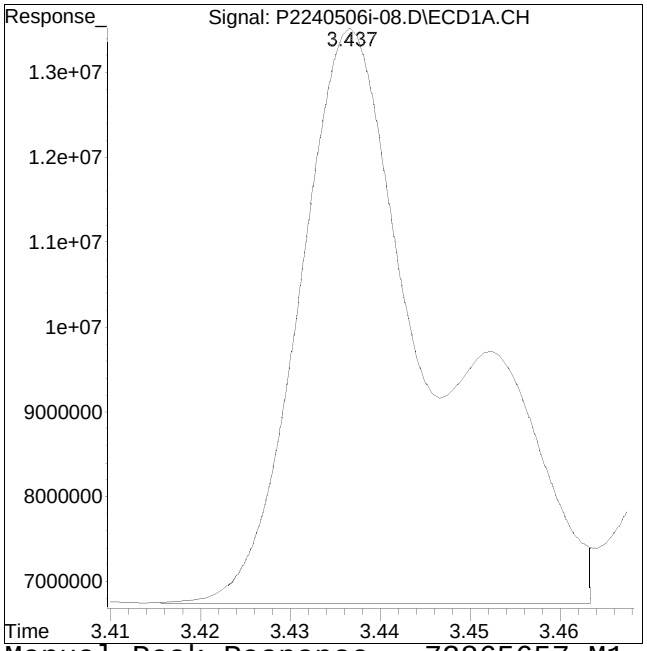
Original Peak Response = 114080929 Manual Peak Response = 106756888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 57051697 Manual Peak Response = 73865657 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	407.8E6	304.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	125.8E6	90520079	5.928	5.735
	Spiked Amount	20.000	Range 30 - 150		Recovery =	29.64%#	28.68%#
3) s	Decachlorobi	4.021	4.535	162.9E6	89288357	2.685M4	11.498M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	13.43%#	57.49%
	Target Compounds						
4) l1	1016-1	1.586	1.806	36249062	25493685	89.016	91.259
5) l1	1016-2	1.728	1.978	80757307	56271795	99.632	90.670
6) l1	1016-3	1.917	2.179	156.8E6	107.7E6	93.131	88.087
7) l1	1016-4	1.972	2.239	64161863	41654032	92.391	85.875
8) l1	1016-5	2.142	2.450	69303987	36552504	90.644M4	84.313
	Sum 1016-1			407.2E6	267.7E6	464.814	440.205
	Average 1016-1					92.963	88.041
9) l2	1260-1	2.686	3.061	99905923	59864552	82.817M4	73.045
10) l2	1260-2	2.817	3.162	155.3E6	75121033	3.250	77.855
11) l2	1260-3	3.133	3.555	97615758	59258669	85.330	75.289
12) l2	1260-4	3.289	3.684	200.6E6	115.2E6	8.236	90.108
13) l2	1260-5	3.437	3.886	139.3E6	80354238	11.929M1	89.485
	Sum 1260-1			692.7E6	389.8E6	N.D.	N.D. D
	Average 1260-1					38.312	81.156 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

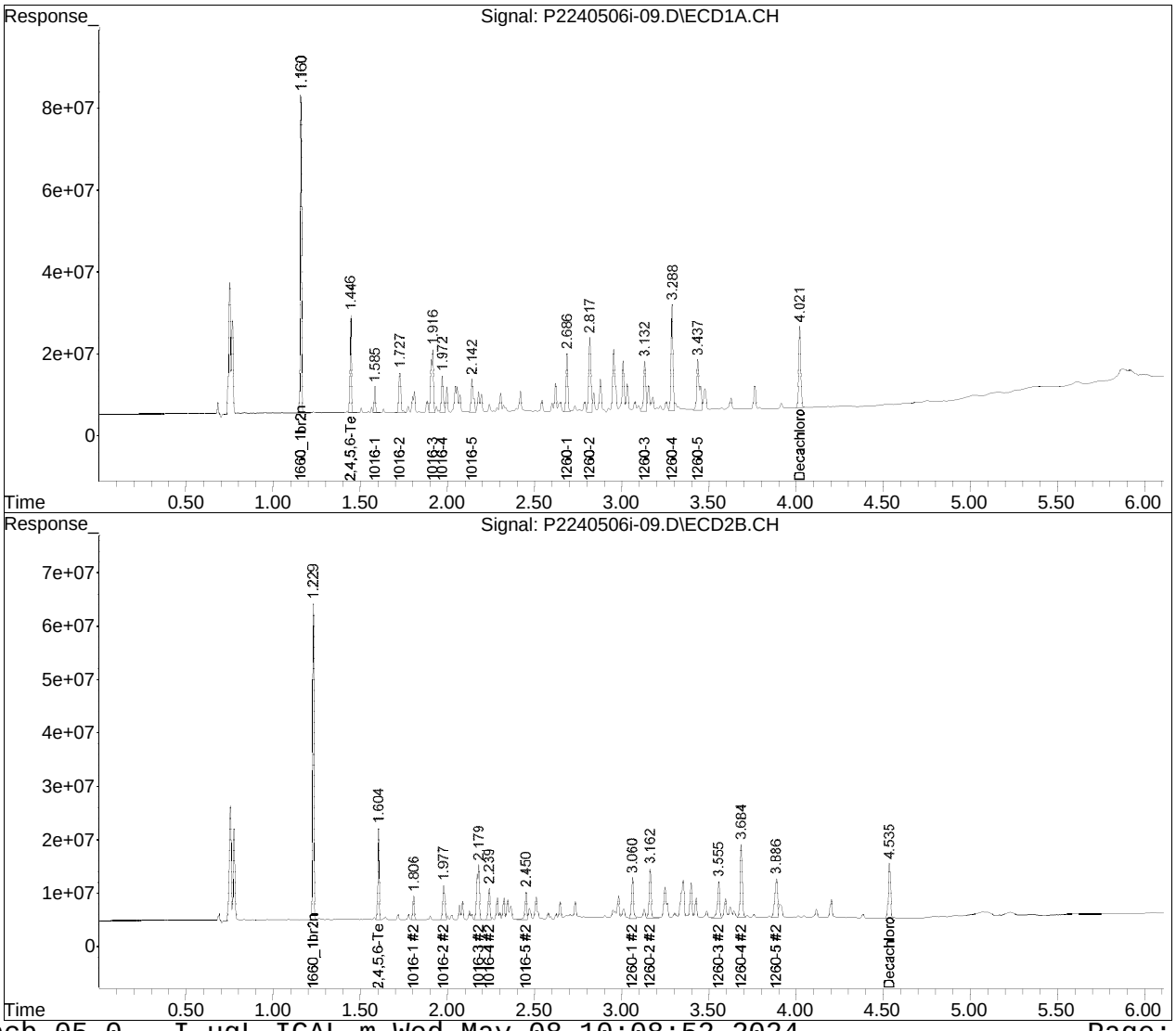
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

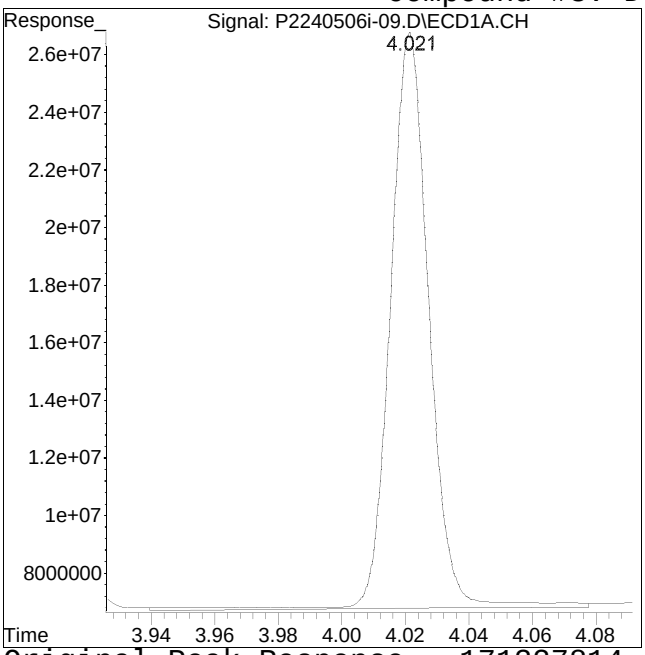
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

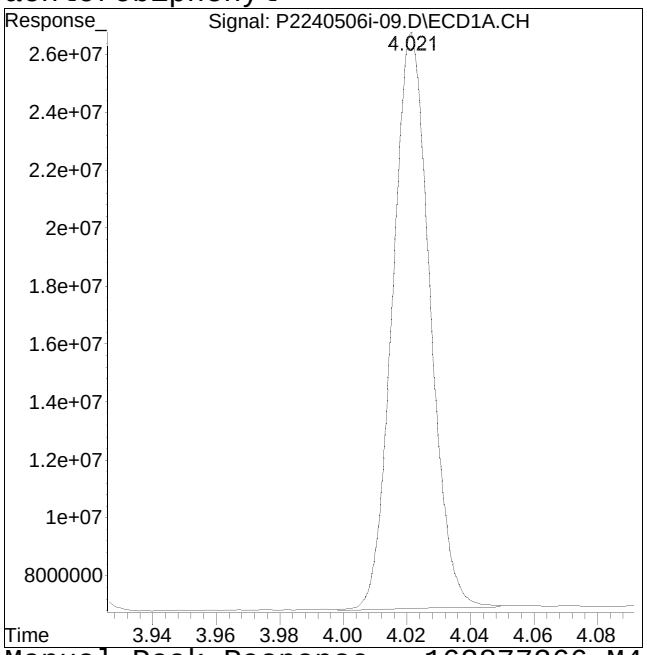


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



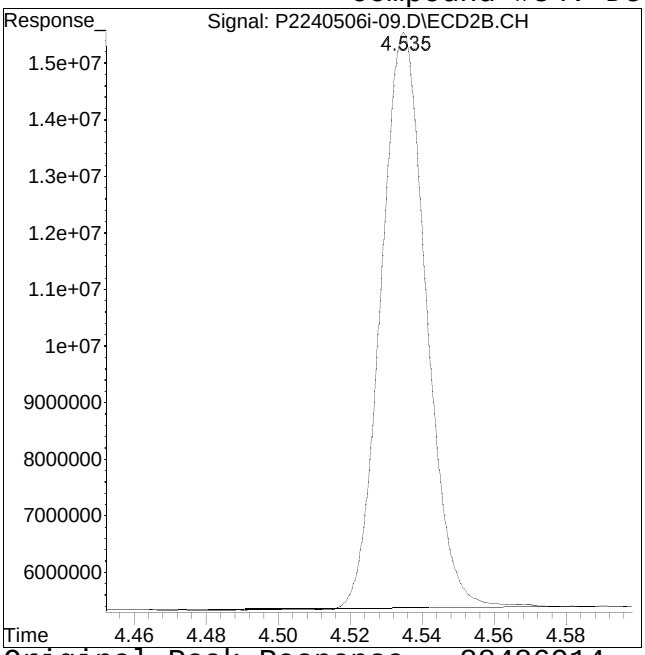


Original Peak Response = 171327814 Manual Peak Response = 162877366 M4
M4 = Poor automated baseline construction.

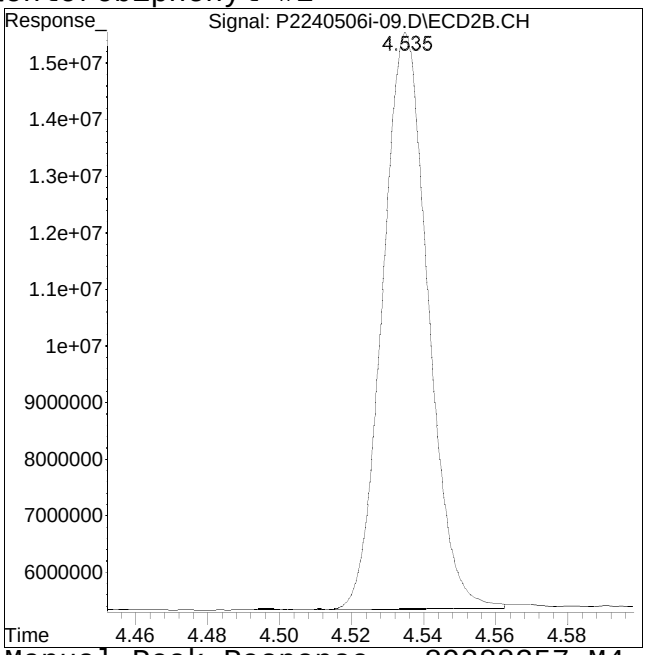
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 88486914



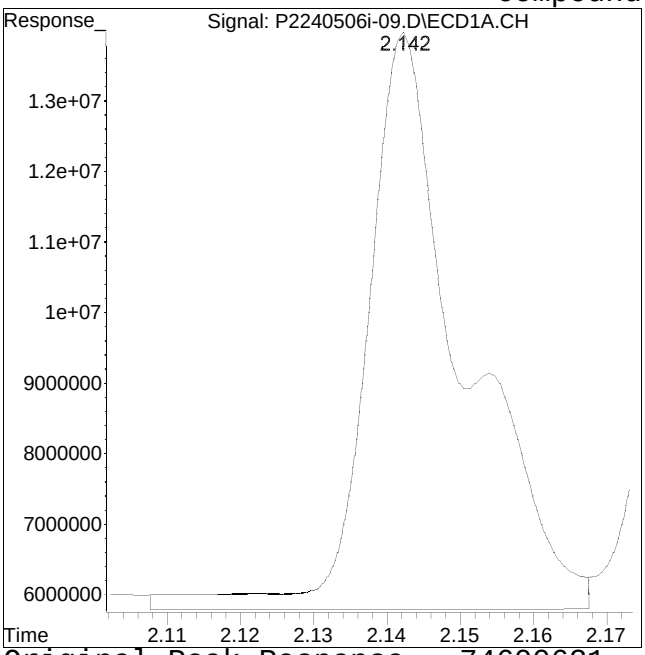
Manual Peak Response = 89288357 M4

M4 = Poor automated baseline construction.

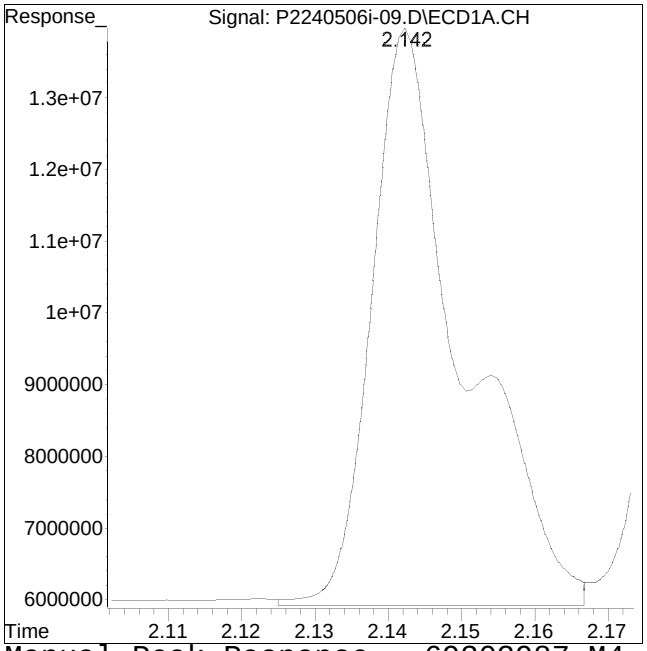
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #8: 1016-5



Original Peak Response = 74600631



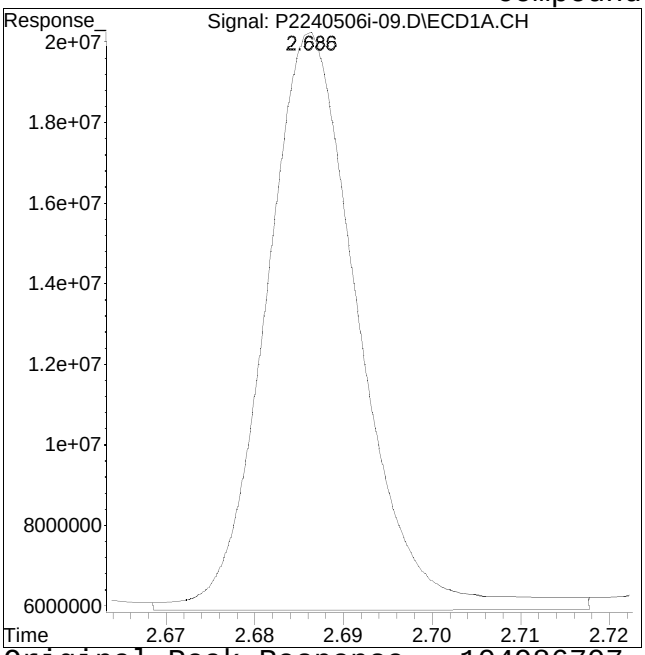
Manual Peak Response = 69303987 M4

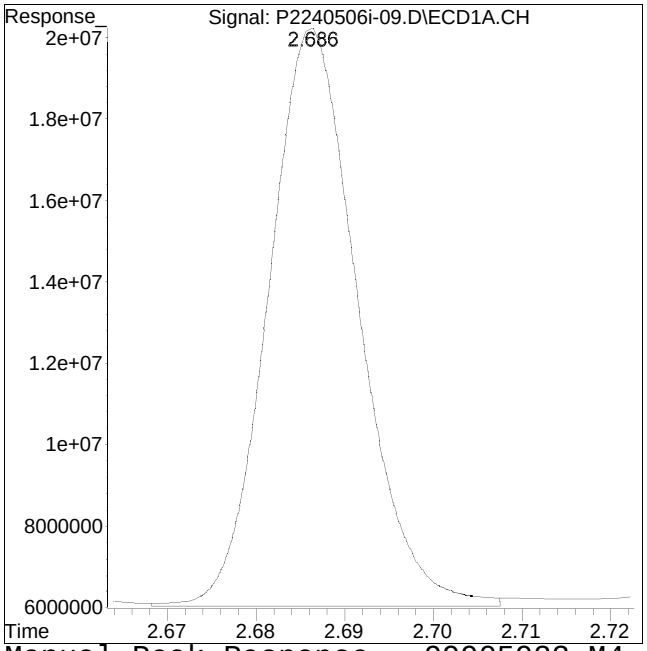
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



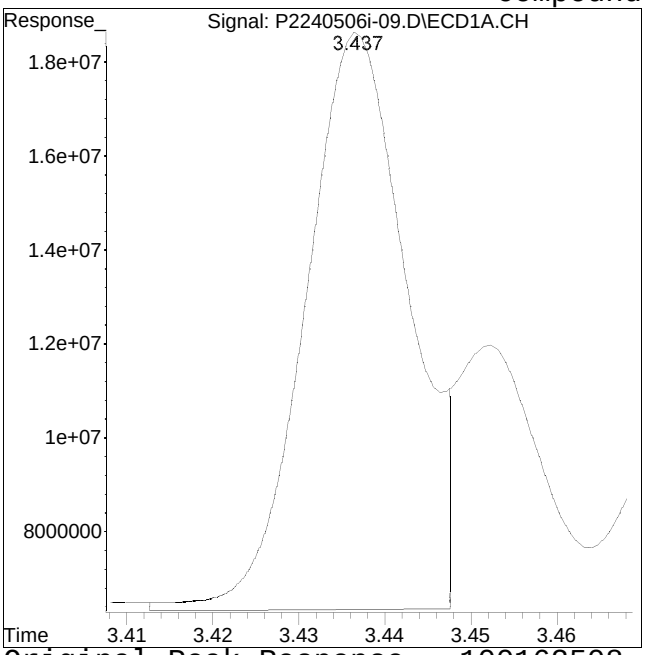


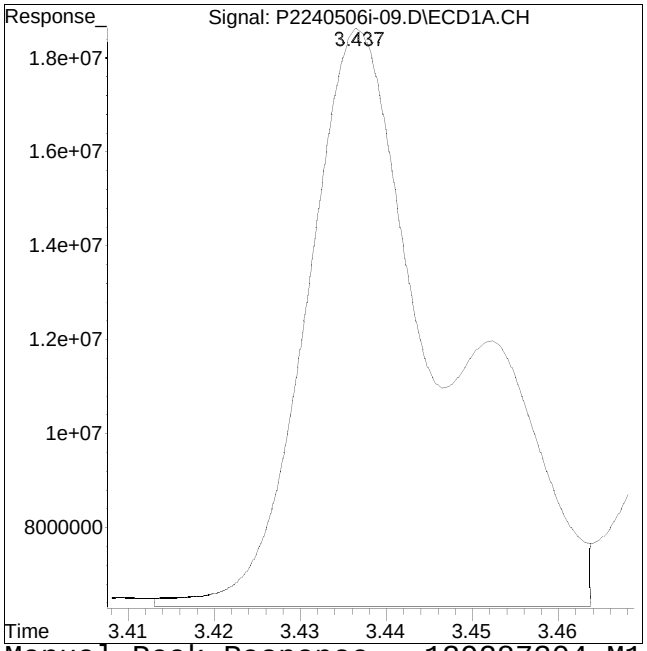
Original Peak Response = 104986707 Manual Peak Response = 99905923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 100162508 Manual Peak Response = 139287304 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	411.7E6	309.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	440.1E6	304.5E6	20.928	19.488
Spiked Amount	20.000	Range 30 - 150		Recovery =		104.64%	97.44%
3) s	Decachlorobi	4.022	4.536	551.8E6	271.9E6	11.192	35.423
Spiked Amount	20.000	Range 30 - 150		Recovery =		55.96%	177.12%#
	Target Compounds						
4) l1	1016-1	1.586	1.806	112.2E6	79371159	280.686	285.782
5) l1	1016-2	1.728	1.978	251.1E6	174.4E6	307.207	283.030
6) l1	1016-3	1.917	2.179	526.9E6	348.1E6	315.467	288.731
7) l1	1016-4	1.972	2.239	206.5E6	132.5E6	300.281	278.595
8) l1	1016-5	2.143	2.450	225.4E6	110.5E6	293.818	260.901
Sum	1016-1			1322.1E6	844.8E6	1497.458	1397.039
Average	1016-1					299.492	279.408
9) l2	1260-1	2.686	3.060	324.1E6	185.1E6	278.182	238.257
10) l2	1260-2	2.817	3.162	492.4E6	220.8E6	13.461	238.363
11) l2	1260-3	3.133	3.555	306.0E6	178.1E6	278.618	237.246
12) l2	1260-4	3.289	3.684	666.9E6	358.9E6	35.206	283.117
13) l2	1260-5	3.437	3.886	465.8E6	250.2E6	51.221M1	281.492
Sum	1260-1			2255.2E6	1193.0E6	N.D.	N.D. D
Average	1260-1					131.338	255.695 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

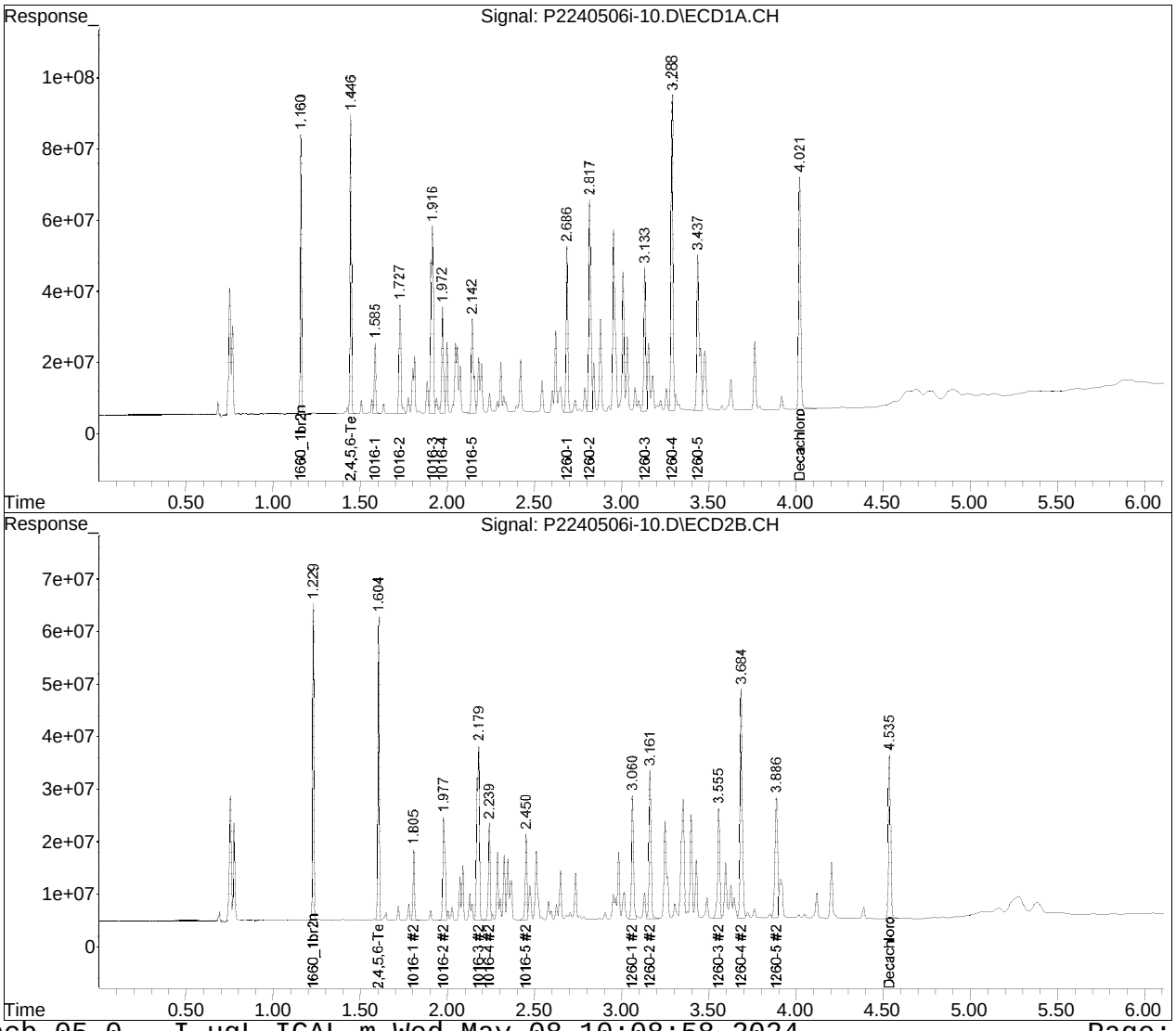
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

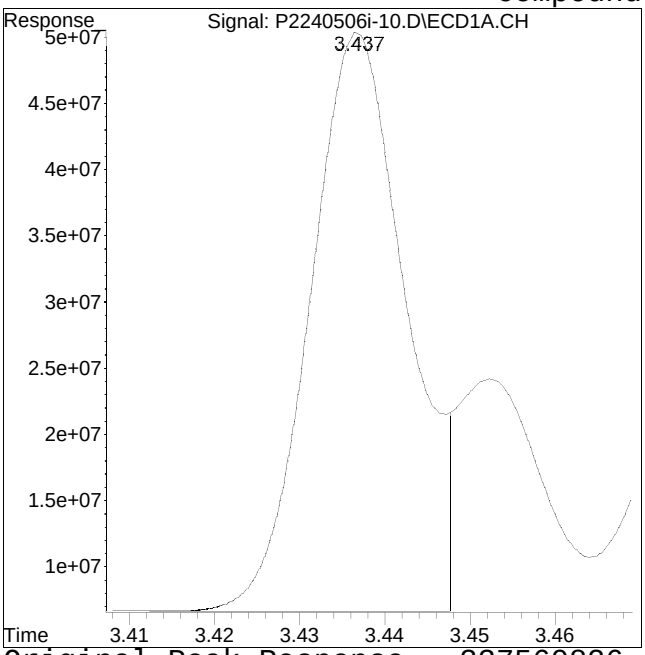
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

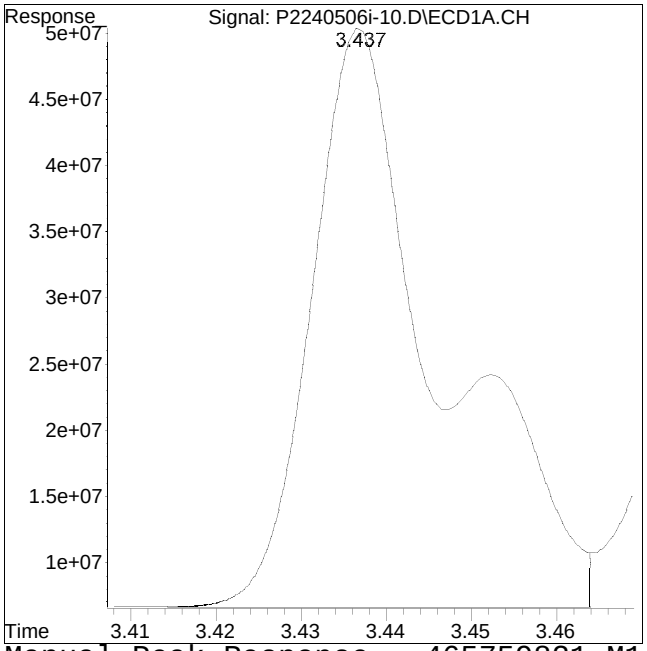


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-10.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:55 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 337560826 Manual Peak Response = 465759821 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	415.5E6	312.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	709.8E6	477.1E6	33.443	30.273
	Spiked Amount	20.000	Range 30 - 150		Recovery =	167.21%#	151.36%#
3) s	Decachlorobi	4.022	4.536	878.0E6	426.7E6	17.644	55.122
	Spiked Amount	20.000	Range 30 - 150		Recovery =	88.22%	275.61%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	175.4E6	121.0E6	434.757	431.996
5) l1	1016-2	1.727	1.978	392.1E6	263.3E6	475.280M1	423.742
6) l1	1016-3	1.917	2.179	836.6E6	534.7E6	496.332	439.704
7) l1	1016-4	1.972	2.239	325.4E6	201.9E6	468.913M3	421.018M3
8) l1	1016-5	2.143	2.450	354.7E6	165.1E6	458.196	386.567
Sum	1016-1			2084.3E6	1285.9E6	2333.478	2103.027
Average	1016-1					466.696	420.605
9) l2	1260-1	2.687	3.061	510.9E6	302.2E6	434.496	385.766
10) l2	1260-2	2.817	3.163	779.2E6	358.7E6	21.109	383.873
11) l2	1260-3	3.133	3.555	486.1E6	279.5E6	438.536	369.268
12) l2	1260-4	3.289	3.685	1064.5E6	561.4E6	55.681	439.112
13) l2	1260-5	3.437	3.887	741.6E6	390.9E6	81.944M1	436.141
Sum	1260-1			3582.3E6	1892.7E6	N.D.	N.D. D
Average	1260-1					206.353	402.832 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

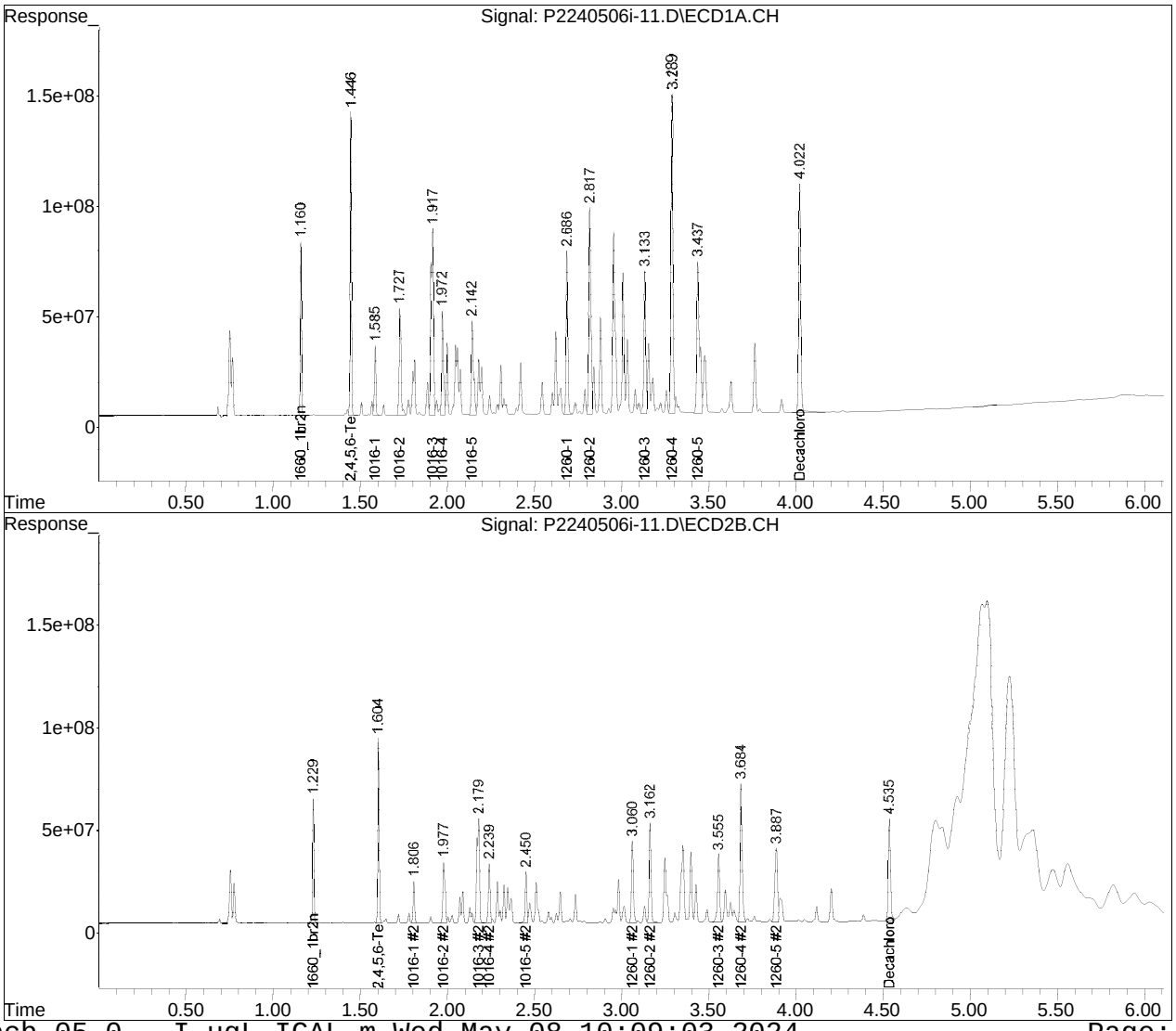
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

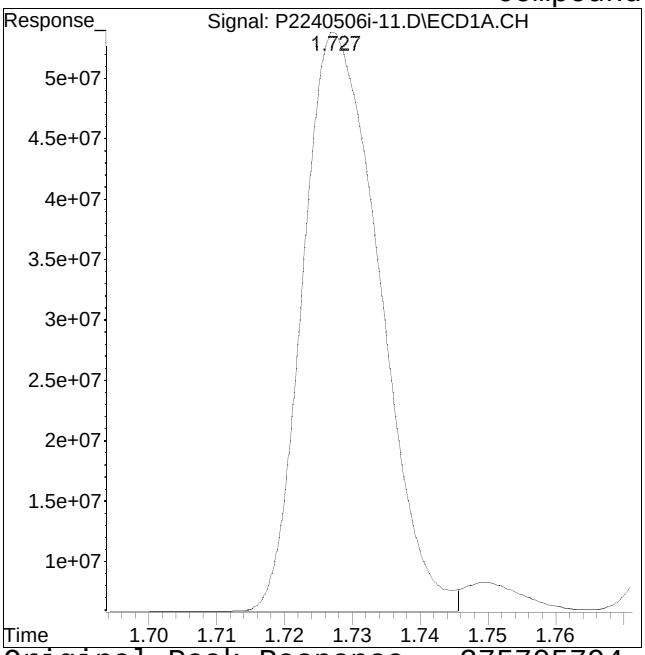
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

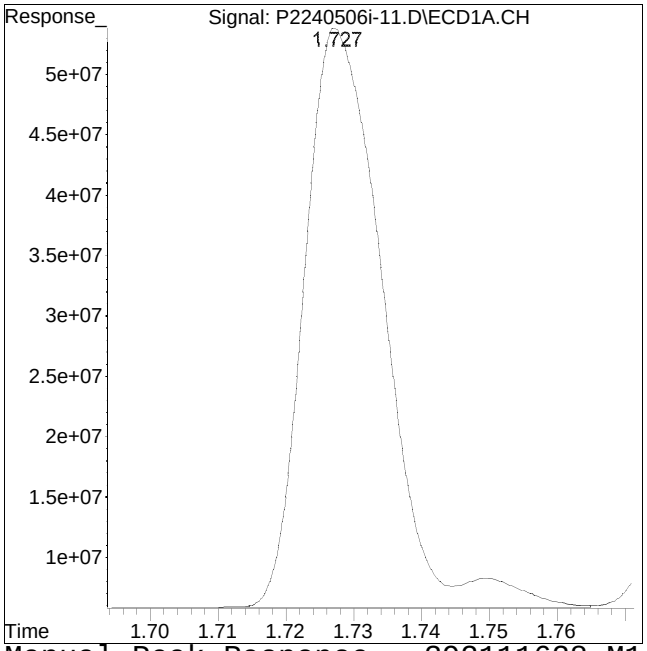


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



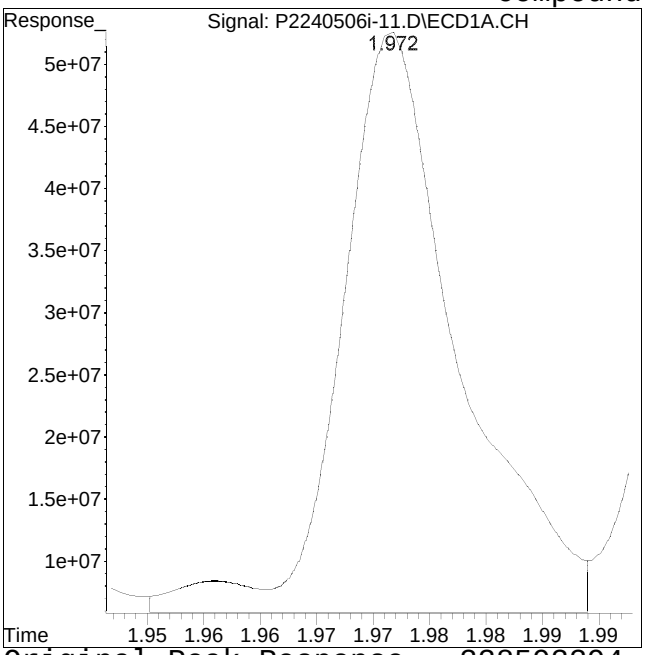


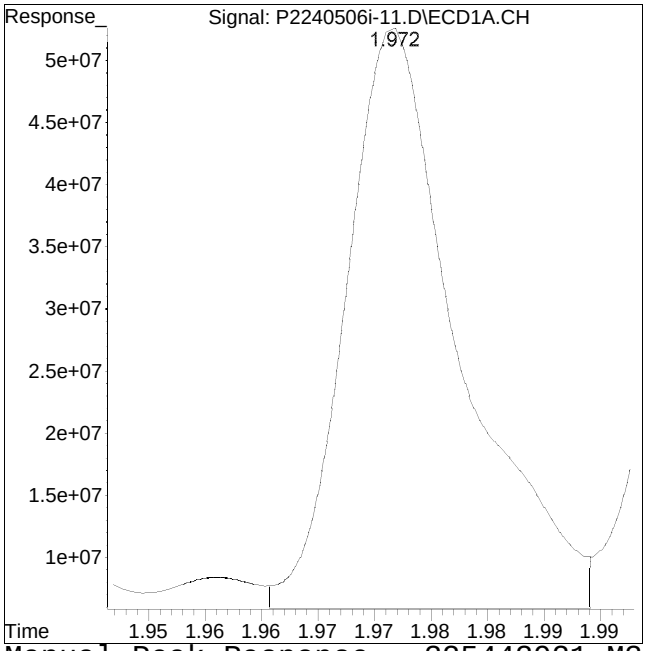
Original Peak Response = 375705794 Manual Peak Response = 392111628 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



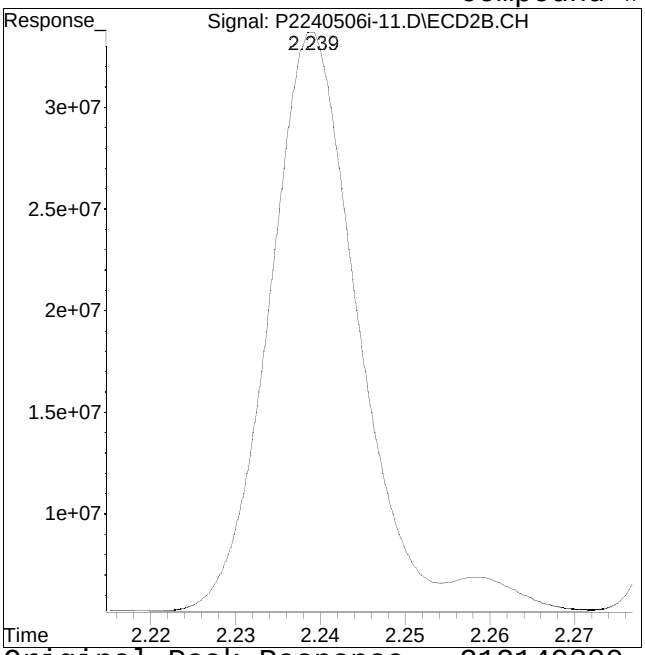


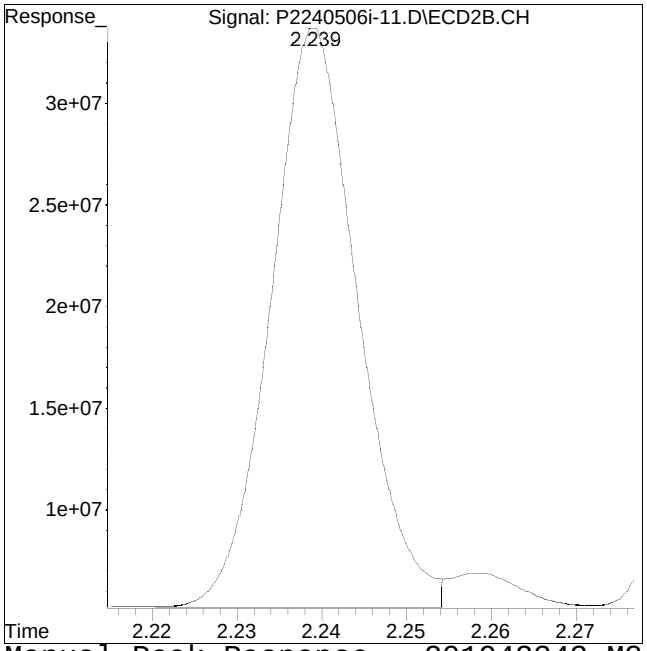
Original Peak Response = 338593394 Manual Peak Response = 325443921 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



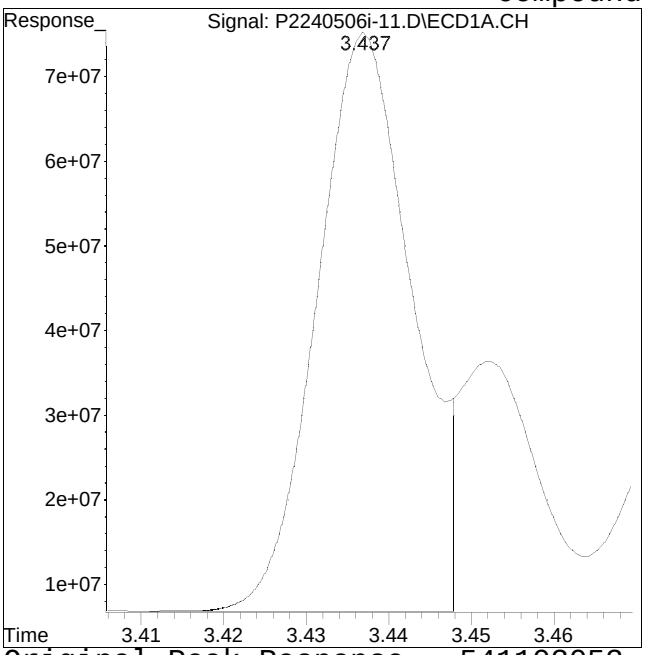


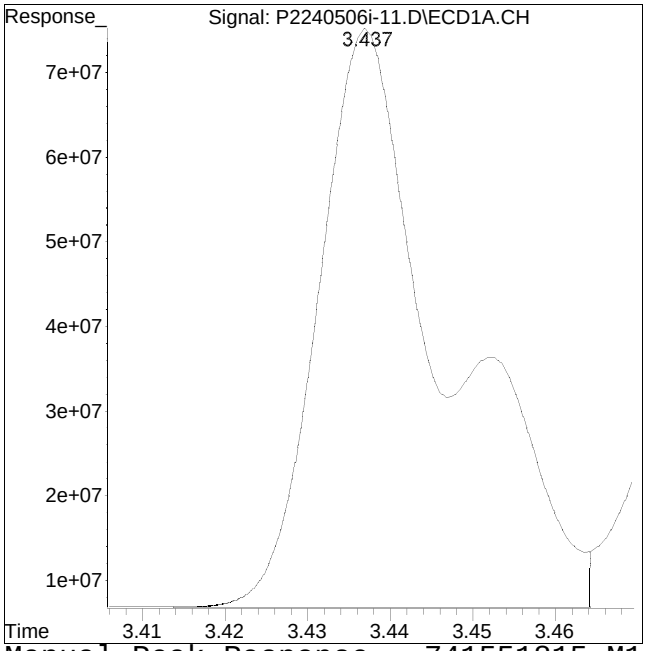
Original Peak Response = 212149220 Manual Peak Response = 201942343 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 541103053 Manual Peak Response = 741551815 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	401.7E6	305.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	1463.5E6	957.9E6	70.673M3	62.850
	Spiked Amount	20.000	Range 30 - 150		Recovery =	353.37%#	314.25%#
3) s	Decachlorobi	4.023	4.535	1761.5E6	817.7E6	42.812	111.103M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	214.06%#	555.51%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	342.3E6	232.3E6	900.980M3	871.969
5) l1	1016-2	1.728	1.978	765.1E6	503.6E6	976.532M1	855.096
6) l1	1016-3	1.917	2.180	1690.8E6	1044.7E6	1038.946M3	900.390
7) l1	1016-4	1.972	2.239	662.4E6	383.2E6	991.931M3	836.439M3
8) l1	1016-5	2.143	2.451	720.0E6	317.8E6	978.184	797.334
Sum	1016-1			4180.7E6	2481.6E6	4886.574	4261.228
Average	1016-1					977.315	852.246
9) l2	1260-1	2.688	3.061	1033.5E6	527.7E6	939.787	721.882
10) l2	1260-2	2.817	3.162	1568.2E6	627.9E6	54.345M3	720.794M4
11) l2	1260-3	3.134	3.555	996.8E6	522.5E6	959.541	744.967M4

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.290	3.685	2155.4E6	1058.3E6	141.797M3	867.797M4
13) l2	1260-5	3.438	3.887	1531.1E6	741.7E6	212.374	868.512M4
Sum	1260-1			7285.0E6	3478.2E6	N.D.	N.D. D
Average	1260-1					461.569	784.790 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

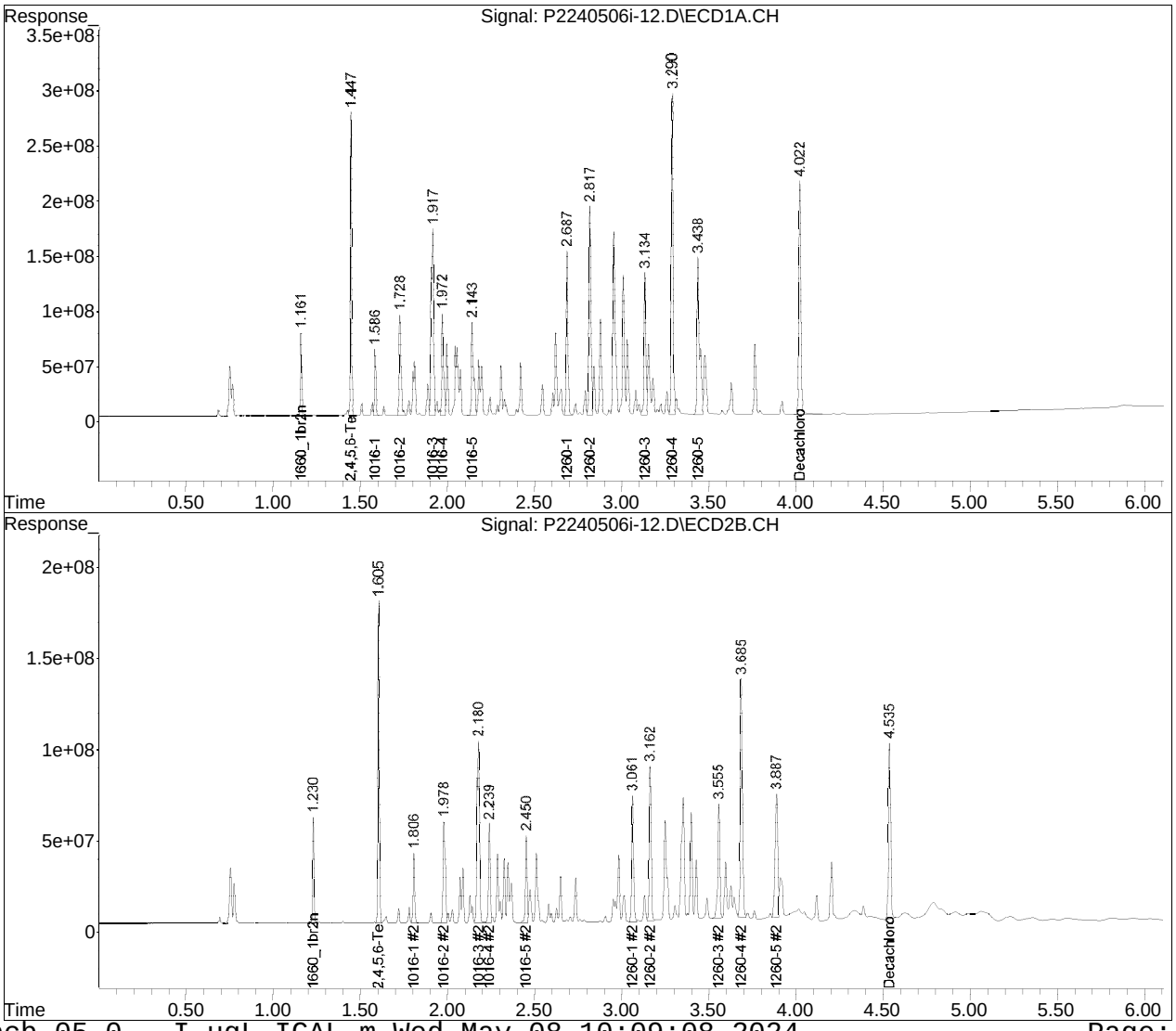
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

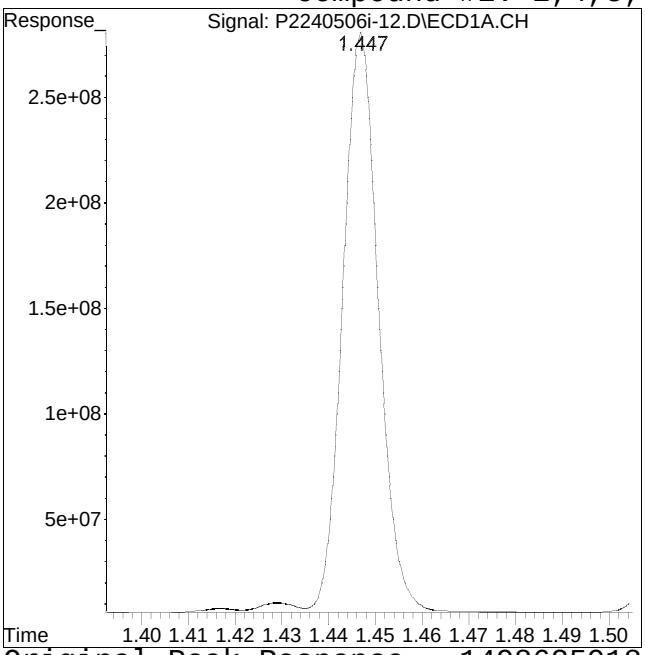
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

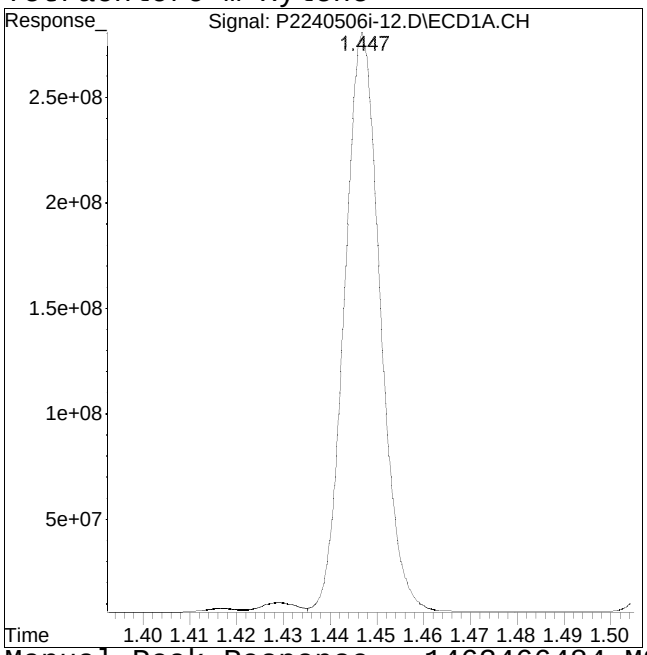


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



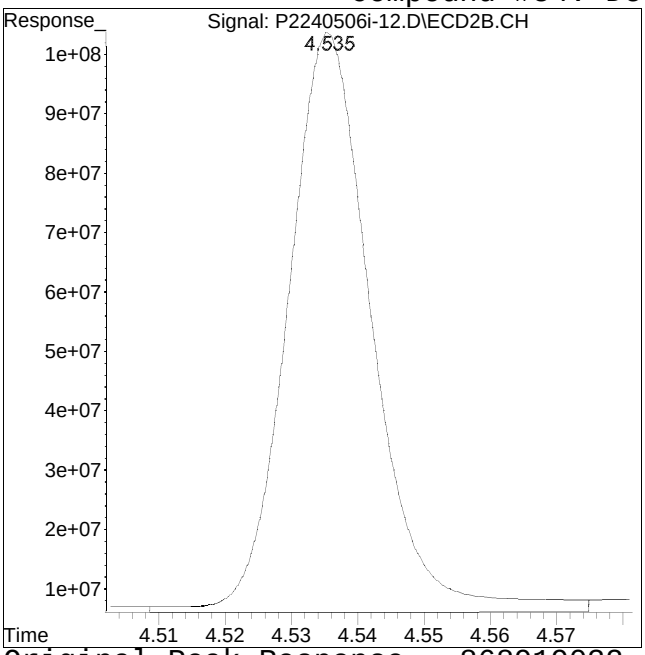


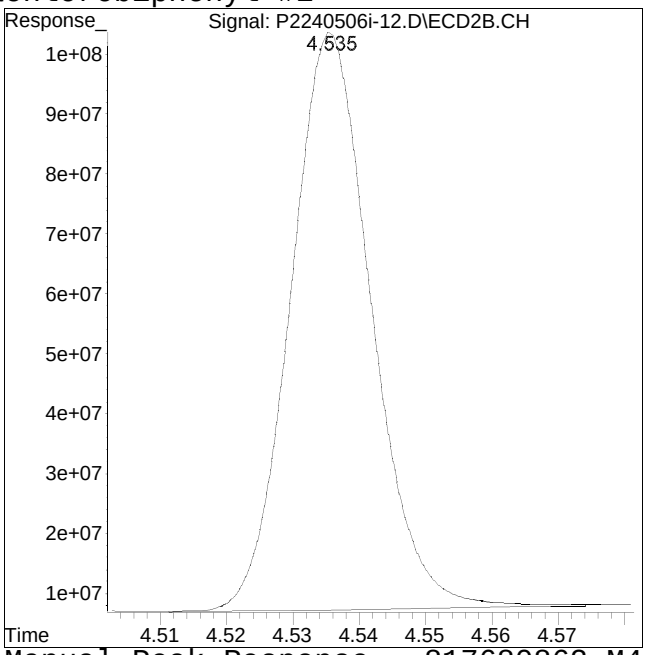
Original Peak Response = 1498625918 Manual Peak Response = 1463466484 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #54: Decachlorobiphenyl #2



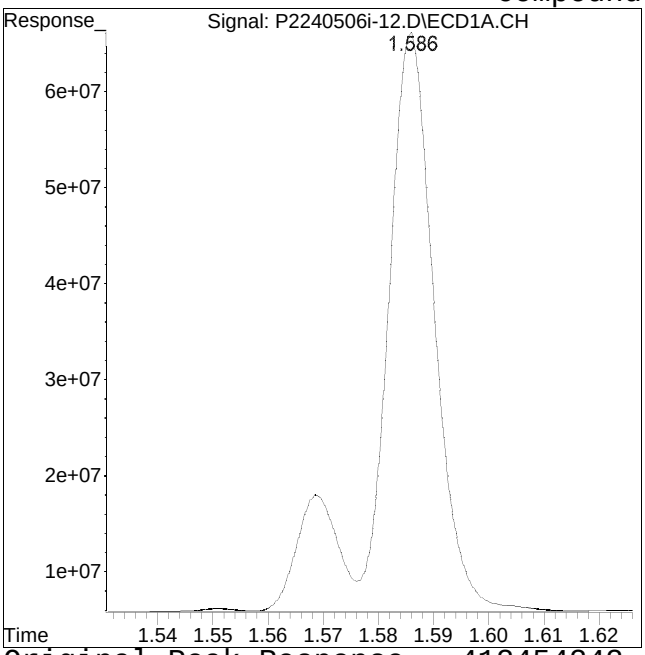


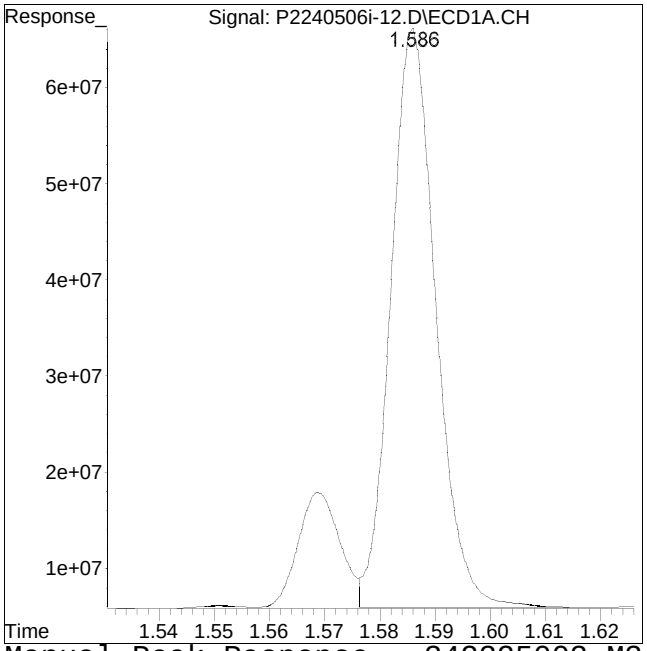
Original Peak Response = 868919032 Manual Peak Response = 817680862 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #4: 1016-1



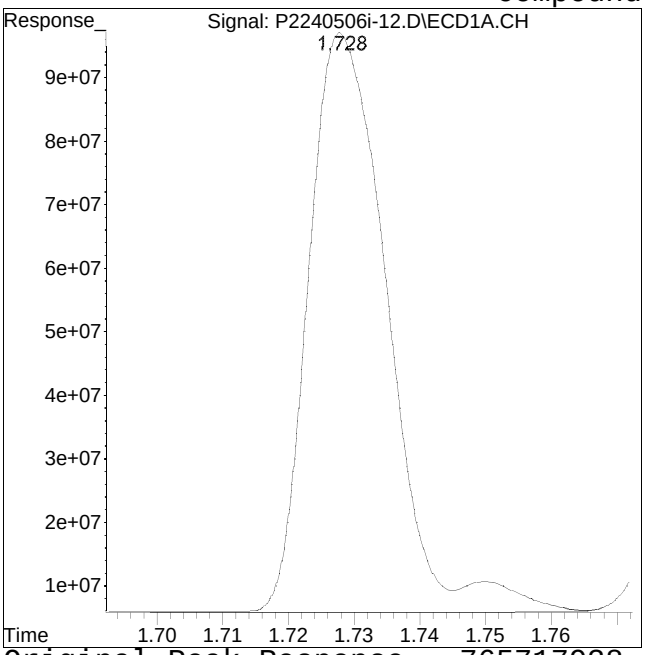


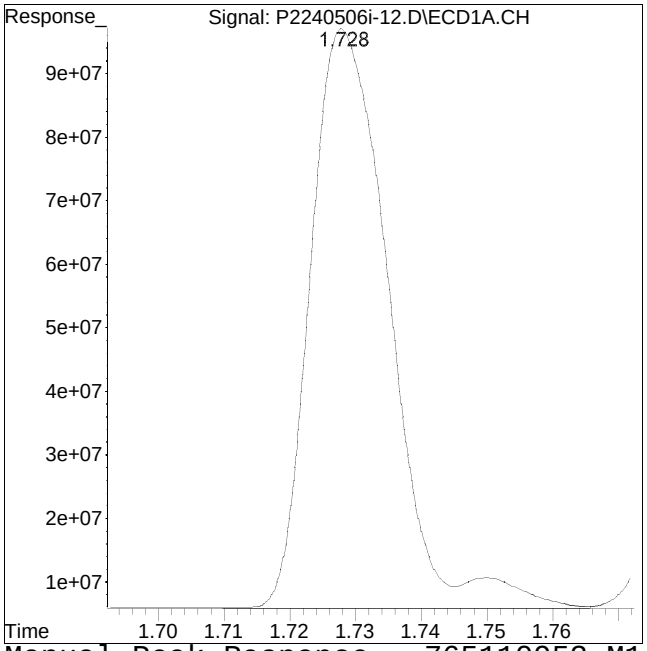
Original Peak Response = 412454242 Manual Peak Response = 342325003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



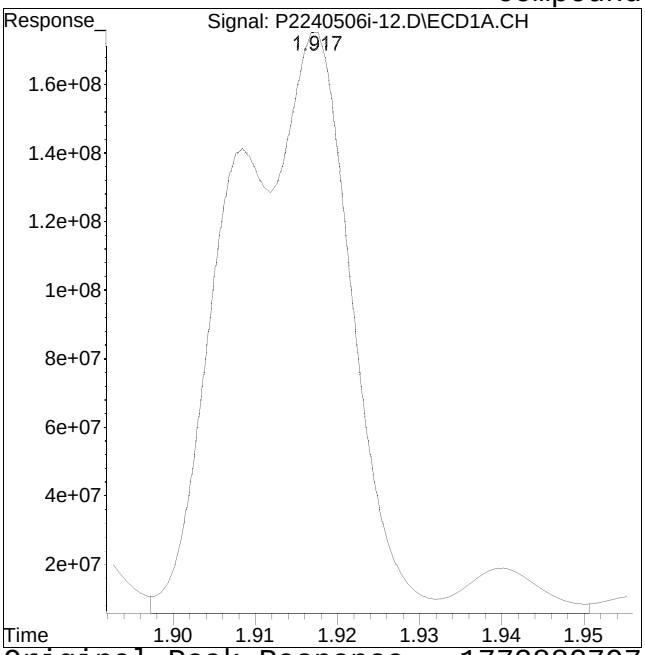


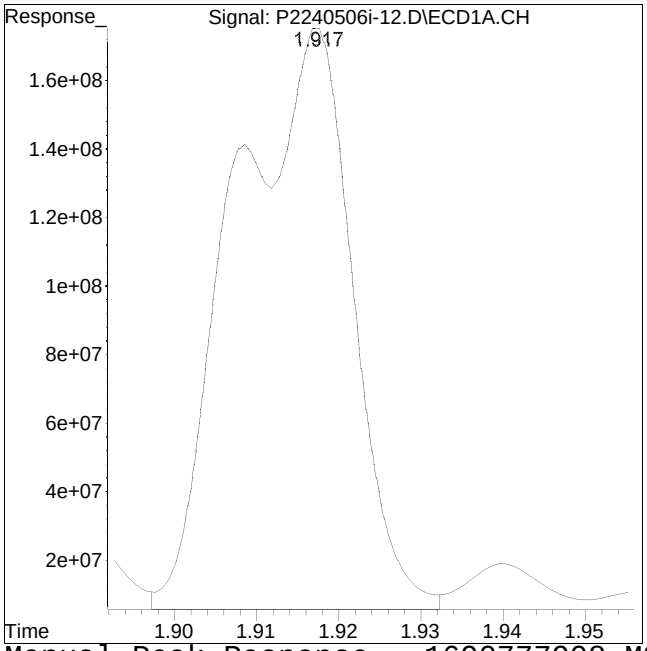
Original Peak Response = 765717938 Manual Peak Response = 765110953 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #6: 1016-3



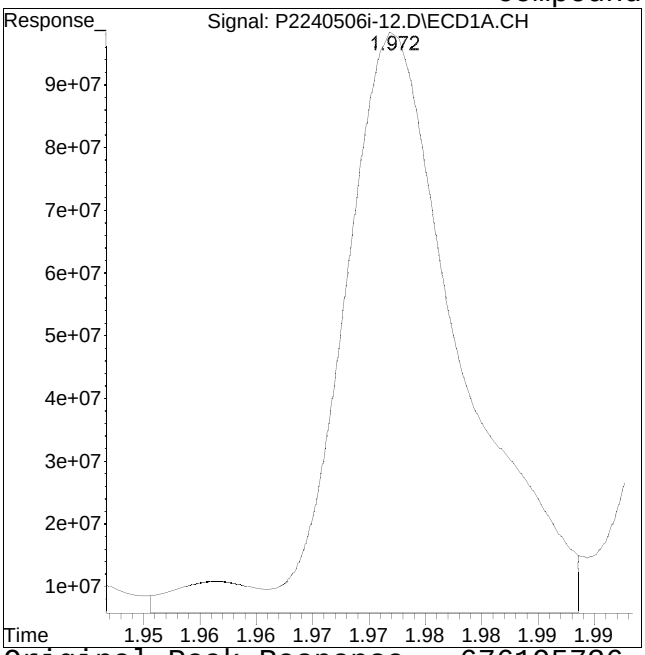


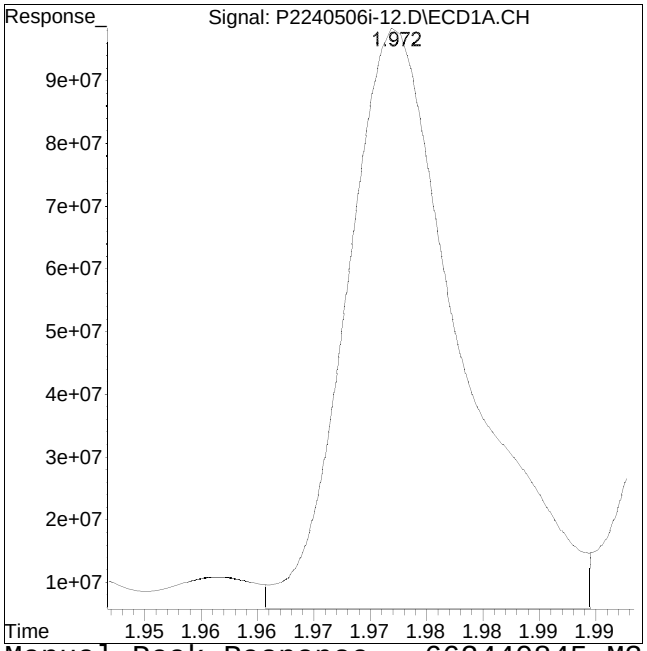
Original Peak Response = 1773882797 Manual Peak Response = 1690777908 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



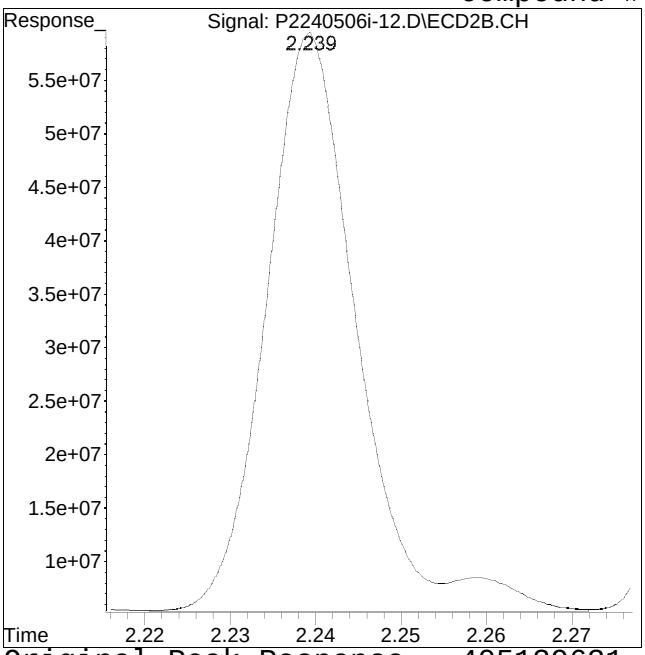


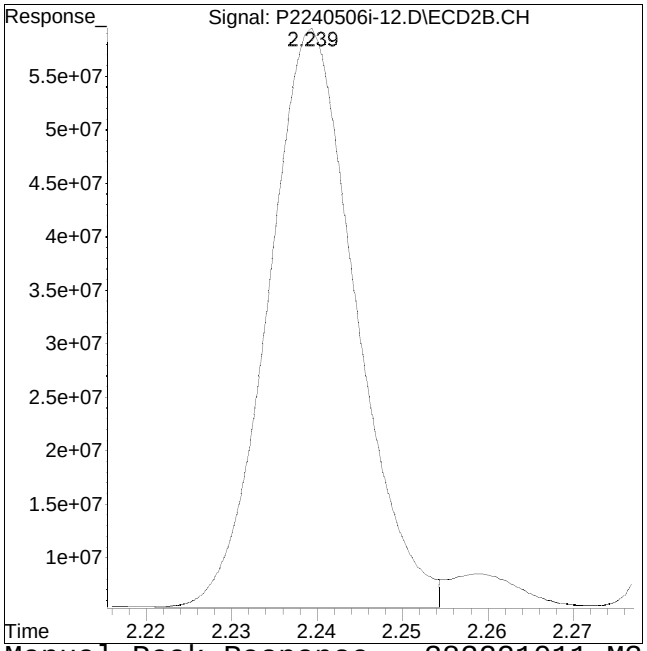
Original Peak Response = 676195736 Manual Peak Response = 662440845 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



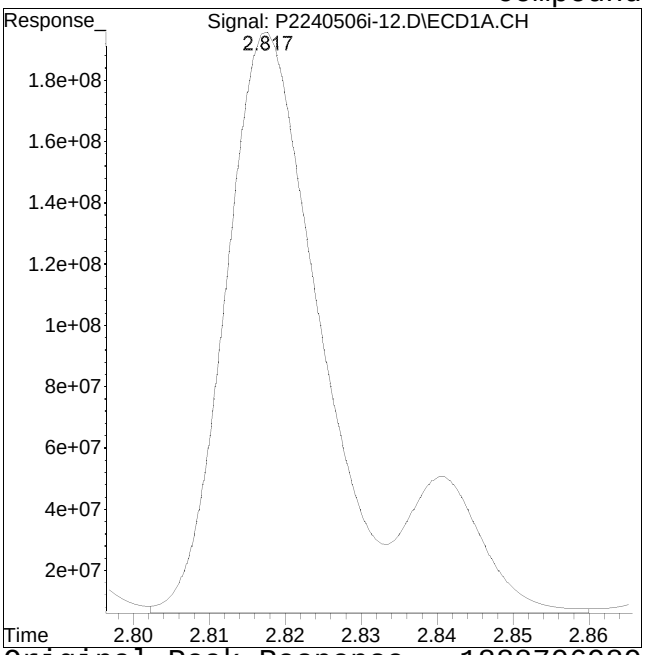


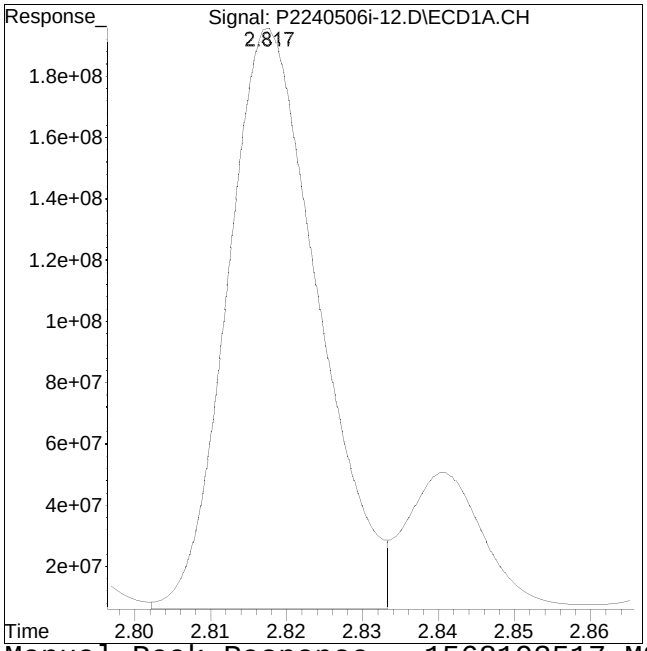
Original Peak Response = 405139631 Manual Peak Response = 383221011 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #10: 1260-2



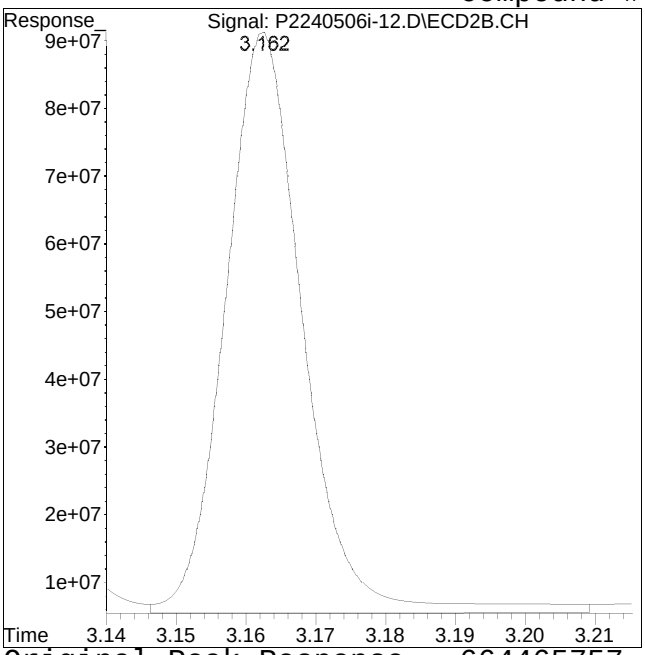


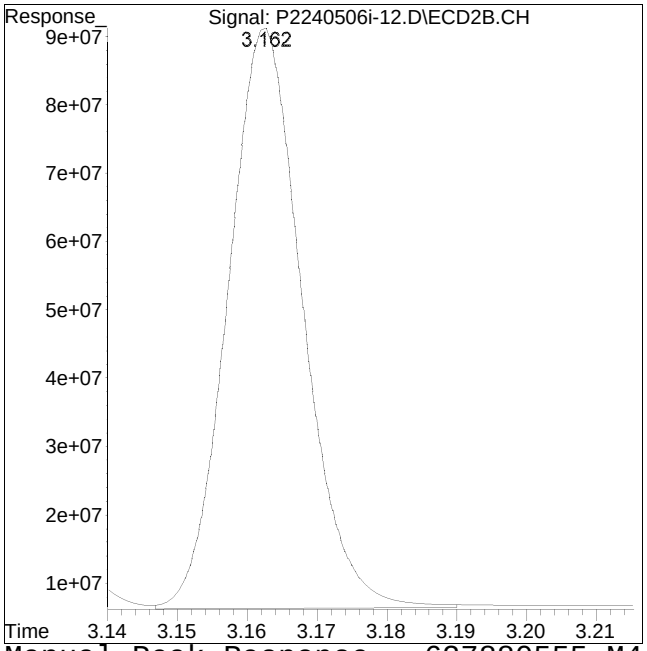
Original Peak Response = 1888706989 Manual Peak Response = 1568193517 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #61: 1260-2 #2



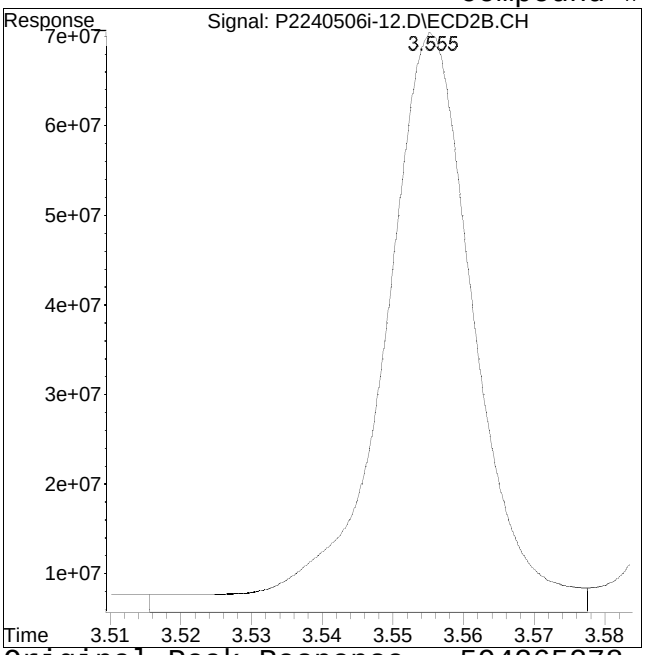


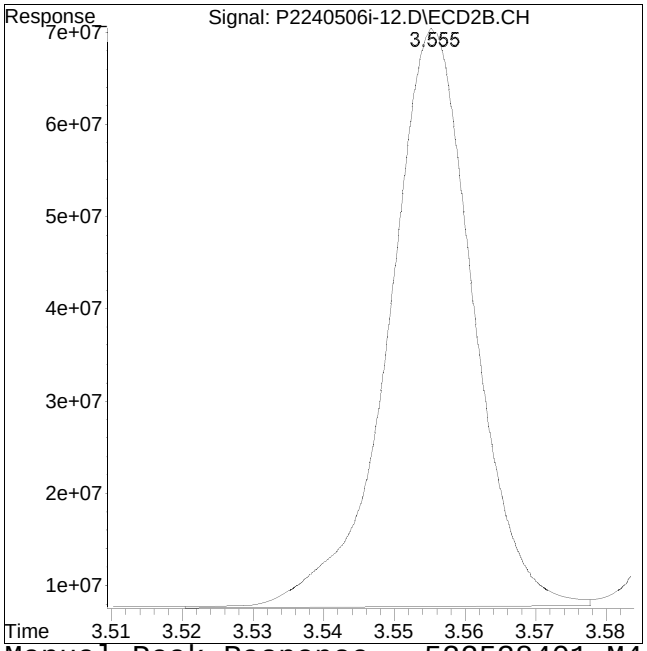
Original Peak Response = 664465757 Manual Peak Response = 627880555 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #62: 1260-3 #2



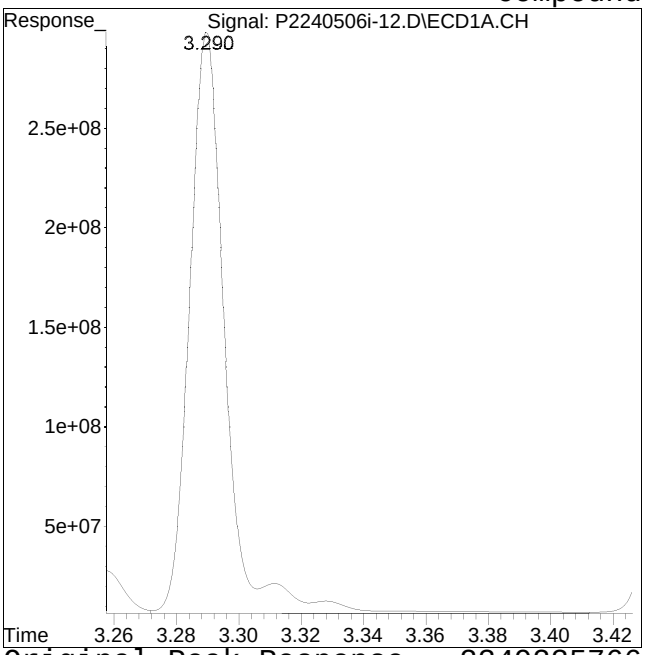


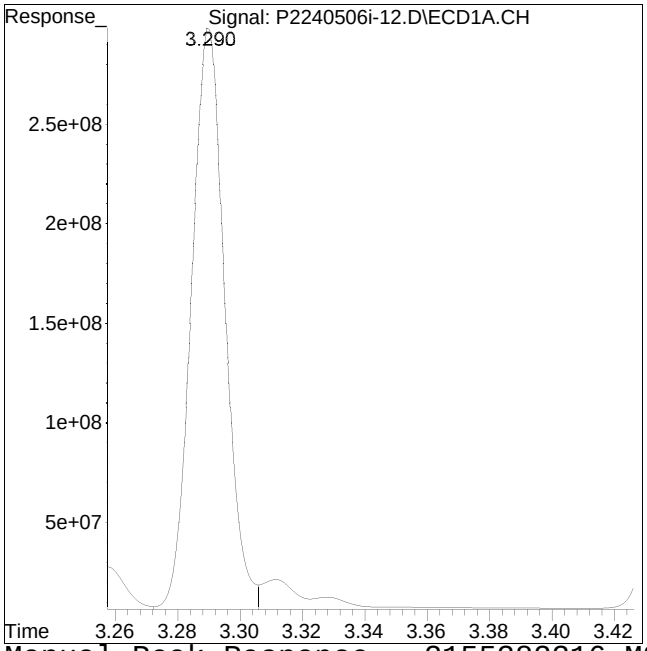
Original Peak Response = 594265278 Manual Peak Response = 522538401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #12: 1260-4



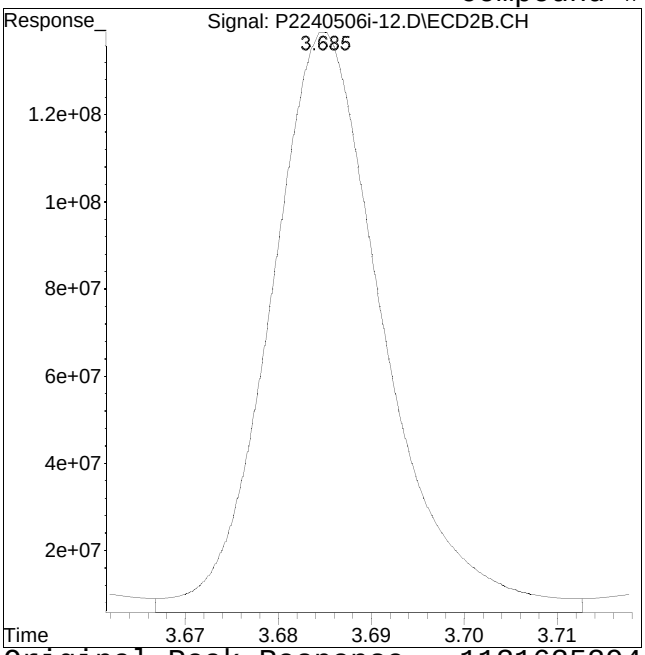


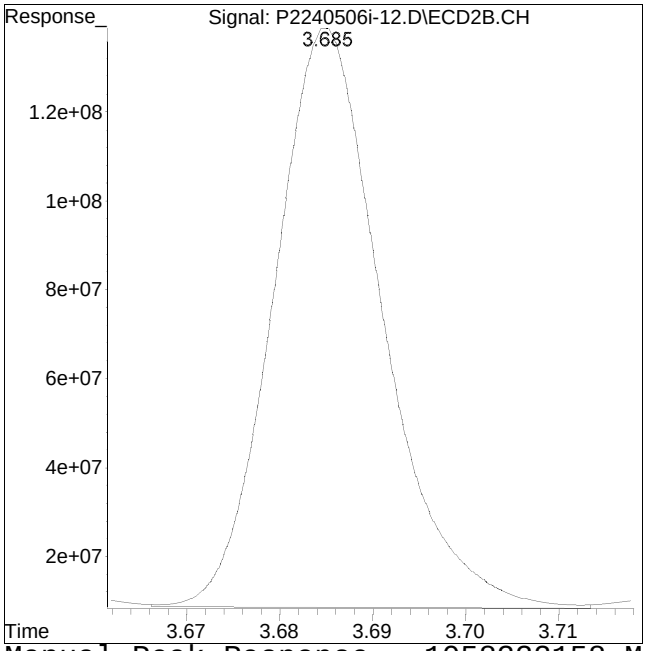
Original Peak Response = 2349235766 Manual Peak Response = 2155382316 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #63: 1260-4 #2



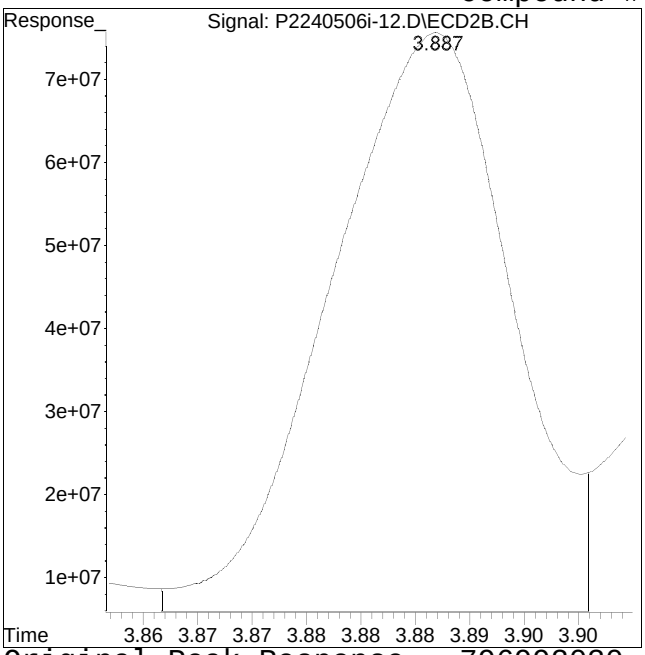


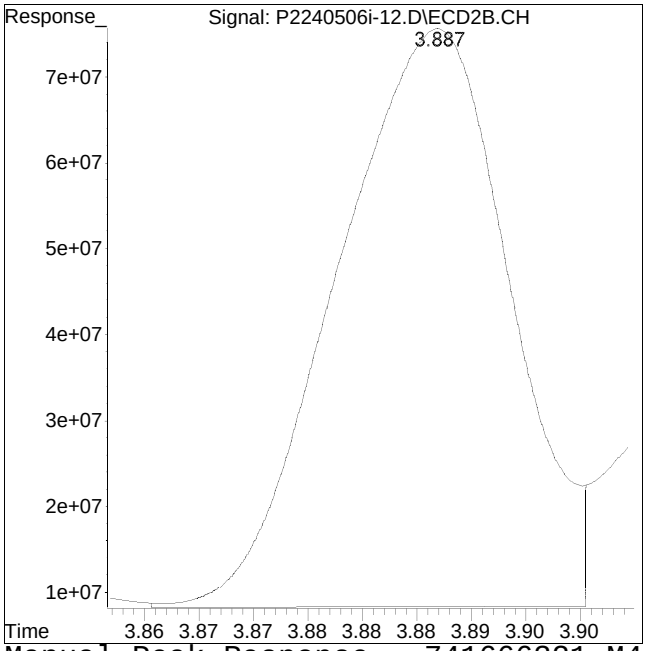
Original Peak Response = 1131625294 Manual Peak Response = 1058332158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #64: 1260-5 #2





Original Peak Response = 796992030 Manual Peak Response = 741666321 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	90	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.427	-8.8	78	0.00
3	s	Decachlorobiphenyl		0.847	1.620	-91.3#	142	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	99	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	100	0.00
24	l6	1242-1		0.019	0.020	-5.3	108	0.00
25	l6	1242-2		0.040	0.044	-10.0	109	0.00
26	l6	1242-3		0.087	0.093	-6.9	108	0.00
27	l6	1242-4		0.035	0.037	-5.7	108	0.00
28	l6	1242-5		0.027	0.030	-11.1	113	0.00
29	l9	1268-1		0.181	0.210	-16.0	117	0.00
30	l9	1268-2		0.167	0.189	-13.2	114	0.00
31	l9	1268-3		0.133	0.140	-5.3	106	0.00
32	l9	1268-4		0.058	0.060	-3.4	103	0.00
33	l9	1268-5		0.392	0.394	-0.5	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	95	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.312	-6.5	79	0.00
3	s	Decachlorobiphenyl		0.580	1.038	-79.0#	141	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	104	0.00
24	l6	1242-1		0.017	0.018	-5.9	110	0.00
25	l6	1242-2		0.038	0.042	-10.5	114	0.00
26	l6	1242-3		0.073	0.081	-11.0	116	0.00
27	l6	1242-4		0.029	0.033	-13.8	116	0.00
28	l6	1242-5		0.022	0.024	-9.1	114	0.00
29	l9	1268-1		0.119	0.148	-24.4#	130	0.00
30	l9	1268-2		0.110	0.132	-20.0#	124	0.00
31	l9	1268-3		0.090	0.100	-11.1	115	0.00
32	l9	1268-4		0.039	0.044	-12.8	117	0.00
33	l9	1268-5		0.245	0.259	-5.7	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	106	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
14) i	2154_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
23) i	4268_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
34) i	1248_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
40) i	3262_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	344.8E6	241.7E6	17.413M3	17.048
	Spiked Amount	20.000	Range 30 - 150		Recovery =	87.06%	85.24%
3) s	Decachlorobi	4.022	4.535	783.1E6	382.4E6	61.211	57.275
	Spiked Amount	20.000	Range 30 - 150		Recovery =	306.06%#	286.38%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.586	1.807	75468361	53100596	267.907	264.555
25) l6	1242-2	1.728	1.978	164.8E6	119.6E6	271.401	273.942
26) l6	1242-3	1.917	2.179	351.7E6	233.7E6	268.799	279.373
27) l6	1242-4	1.972	2.239	140.3E6	93849056	267.894M3	278.888
28) l6	1242-5	2.325	2.626	114.8E6	68908851	281.749	274.508
Sum	1242-1			847.0E6	569.2E6	1357.749	1371.266
Average	1242-1					271.550	274.253
29) l9	1268-1	3.453	3.880	794.0E6	427.1E6	291.052	312.719M4
30) l9	1268-2	3.474	3.906	715.4E6	378.4E6	284.372	299.523M4
31) l9	1268-3	3.576	4.048	529.1E6	286.9E6	263.733	277.288M4
32) l9	1268-4	3.764	4.201	225.4E6	126.4E6	255.990	281.014M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	3.918	4.386	1486.1E6	746.4E6	250.706	264.852M4
Sum	1268-1			3750.0E6	1965.2E6	1345.852	1435.397
Average	1268-1					269.170	287.079
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

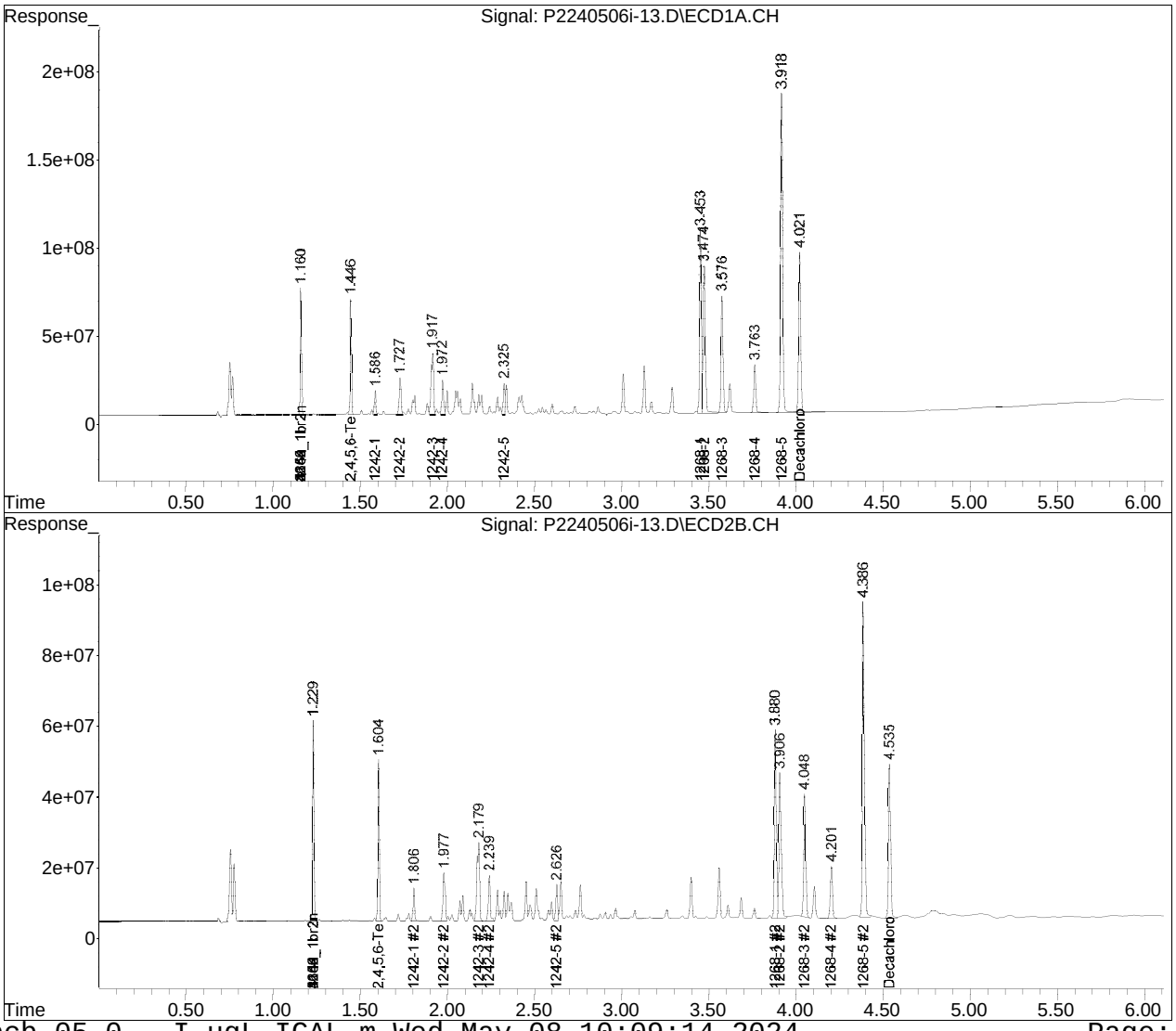
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

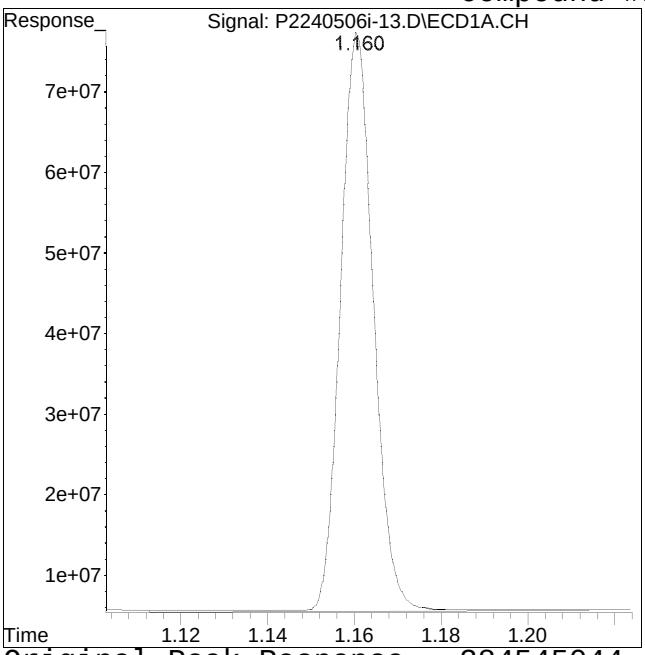
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

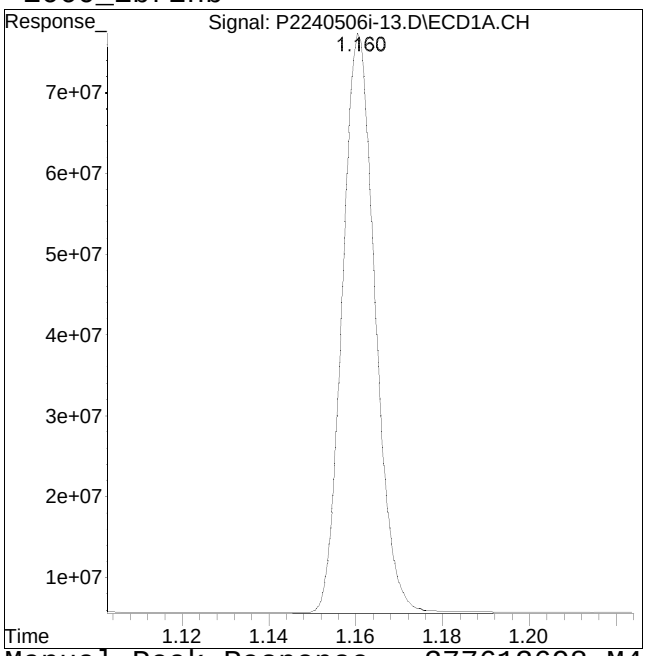


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #1: 1660_1br2nb



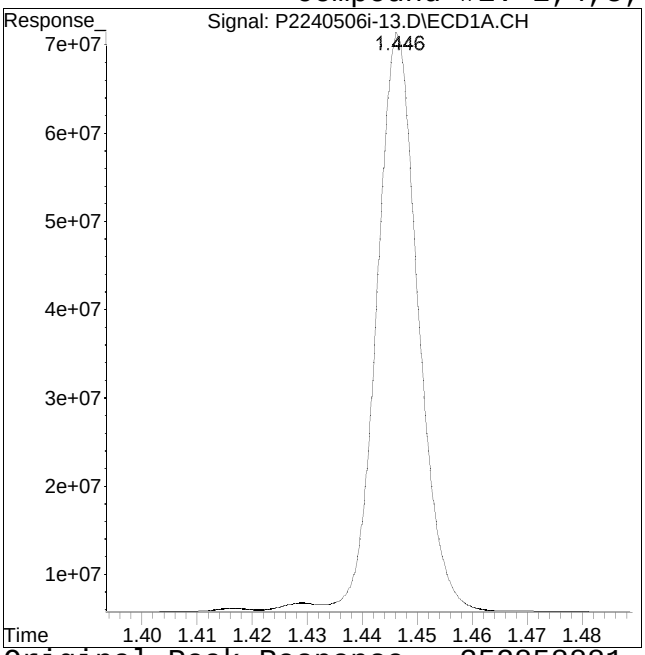


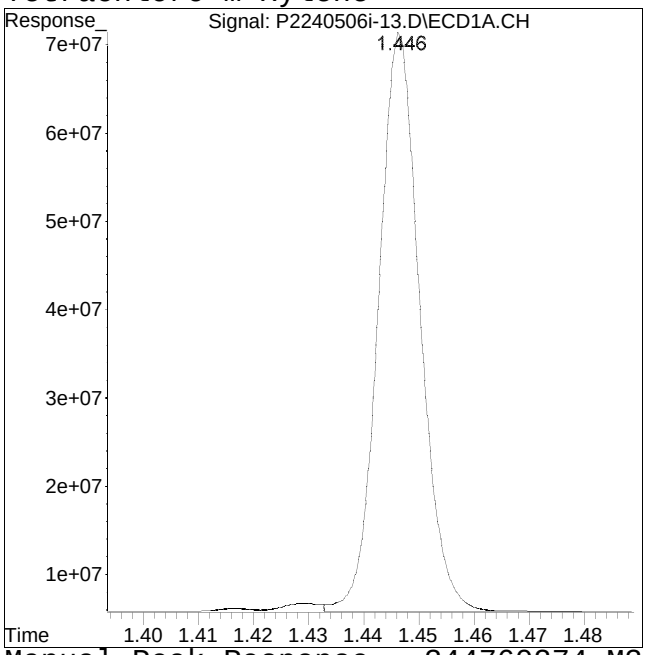
Original Peak Response = 384545044 Manual Peak Response = 377613698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



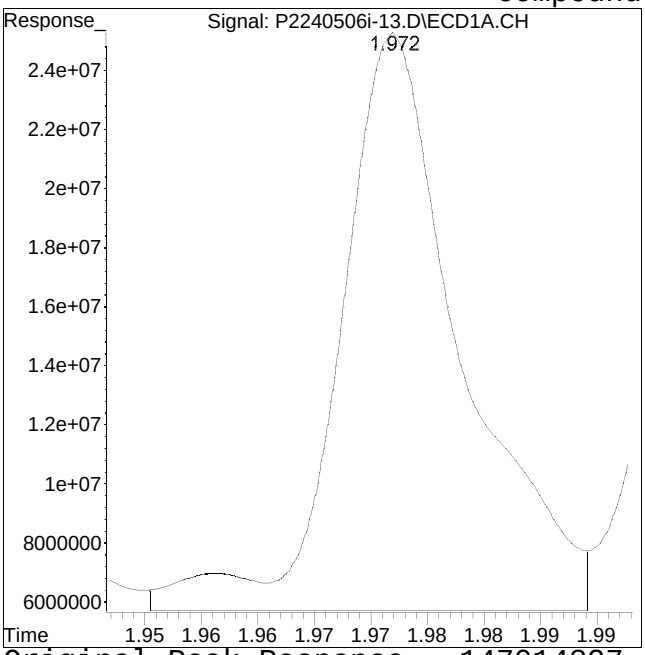


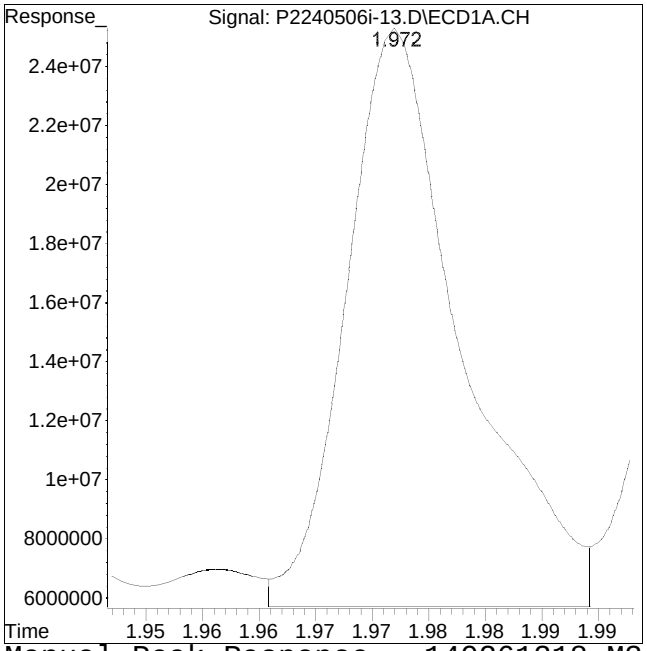
Original Peak Response = 352858881 Manual Peak Response = 344760274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #27: 1242-4



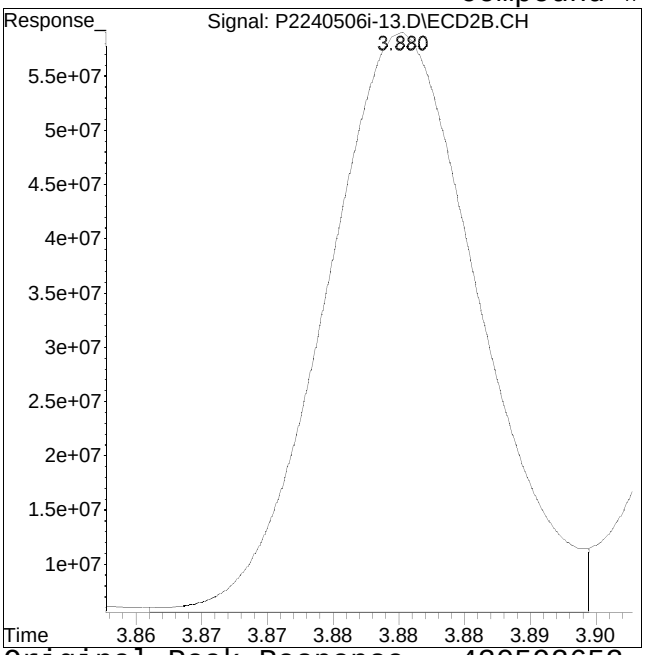


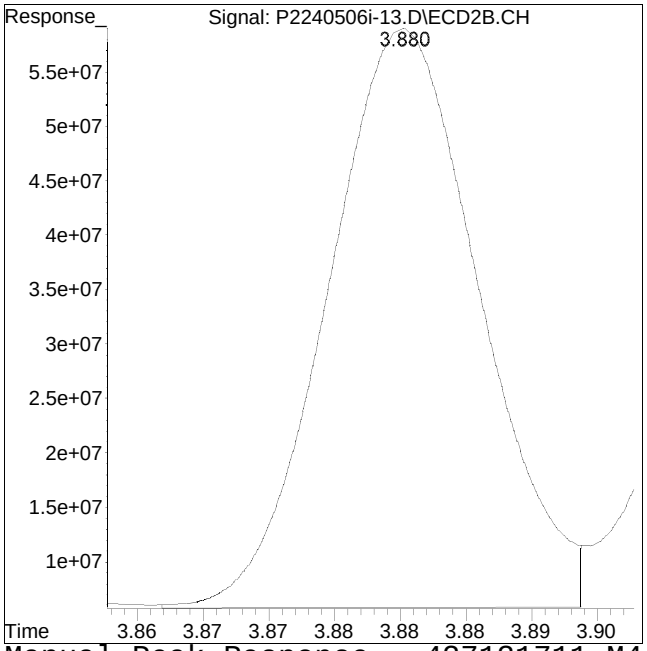
Original Peak Response = 147014327 Manual Peak Response = 140261218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #80: 1268-1 #2



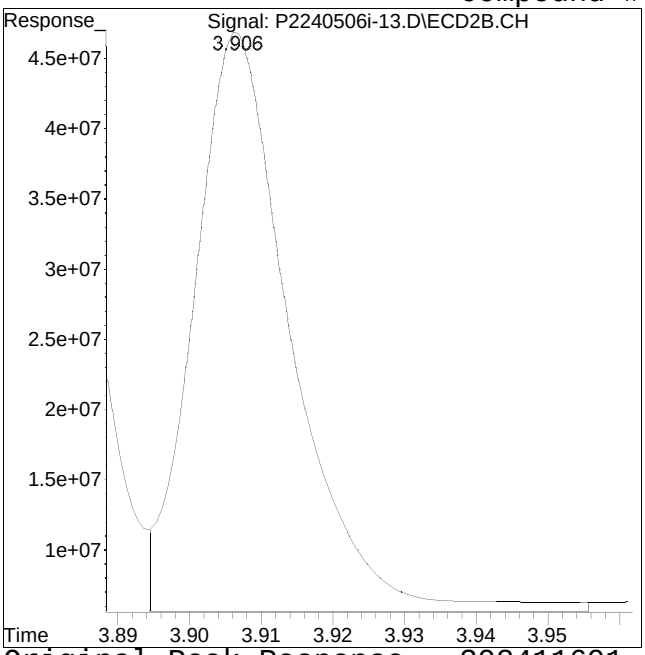


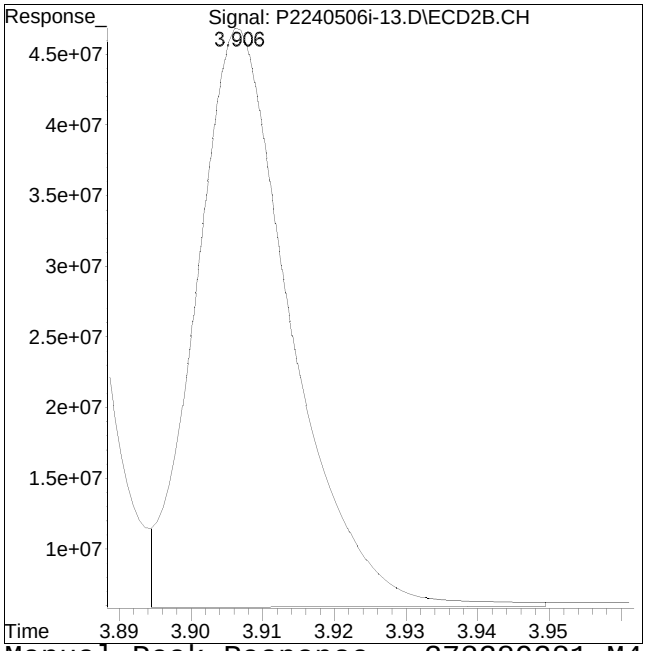
Original Peak Response = 430592652 Manual Peak Response = 427131711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #81: 1268-2 #2



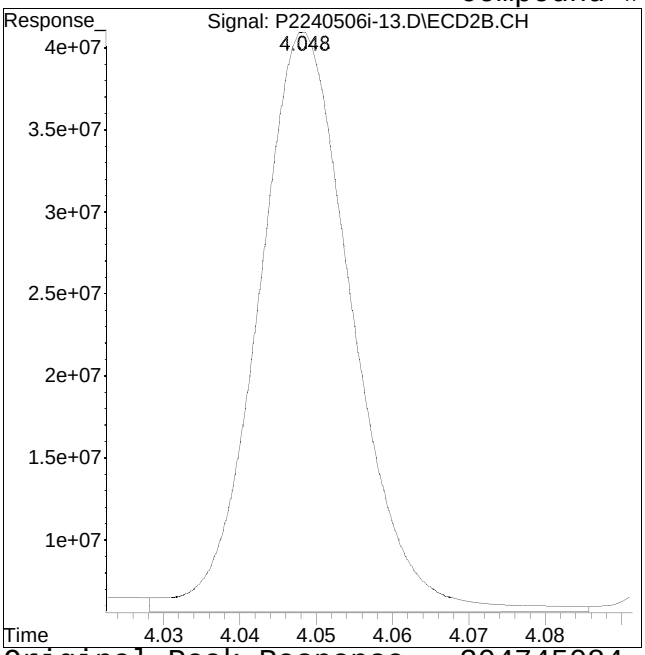


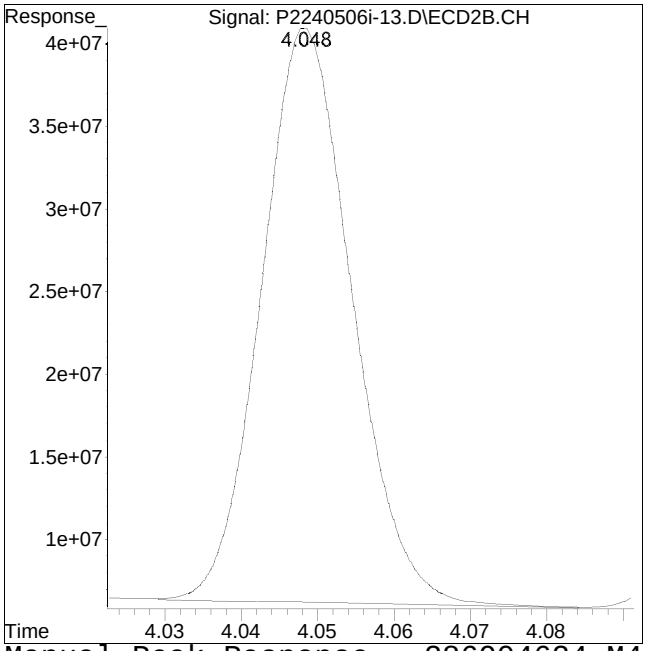
Original Peak Response = 392411691 Manual Peak Response = 378389281 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #82: 1268-3 #2



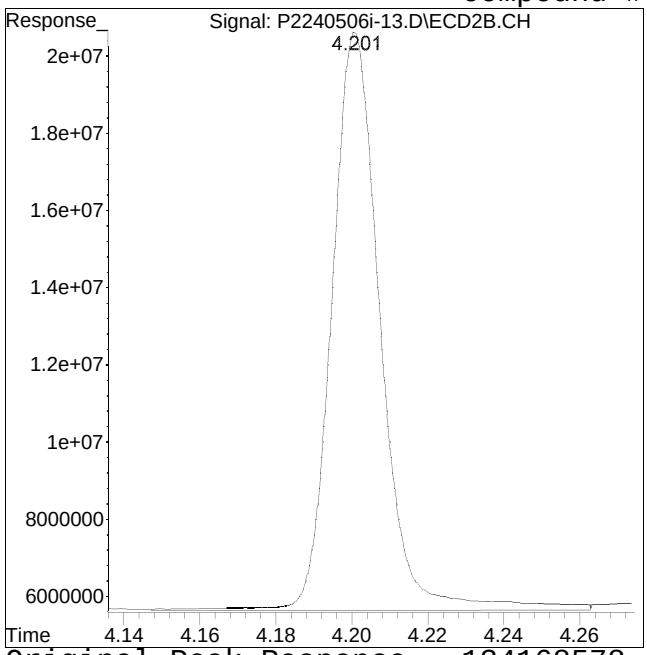


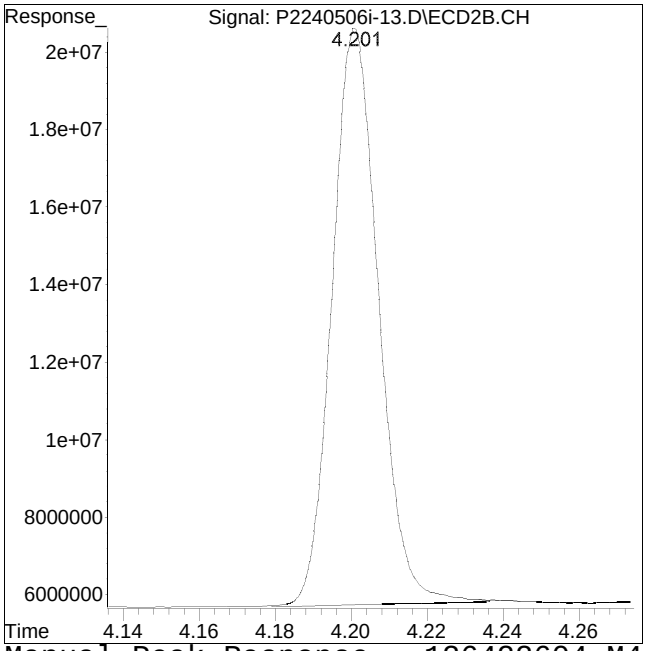
Original Peak Response = 304745084 Manual Peak Response = 286904624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #83: 1268-4 #2



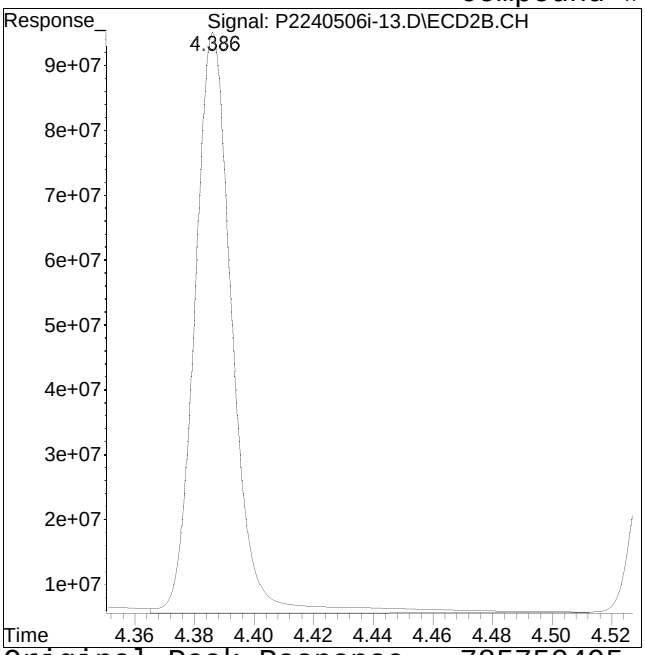


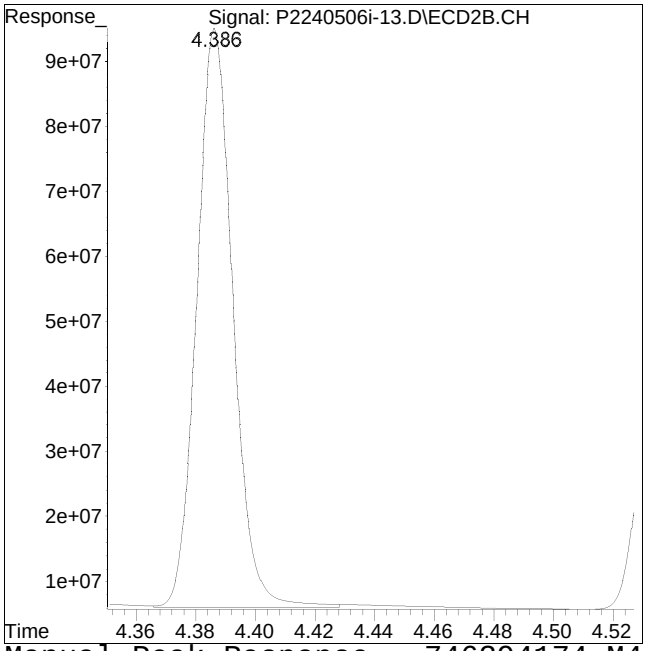
Original Peak Response = 134168578 Manual Peak Response = 126422604 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #84: 1268-5 #2





Original Peak Response = 785750495 Manual Peak Response = 746394174 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	86	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.359	-3.7	71	0.00
3	s	Decachlorobiphenyl		0.847	0.985	-16.3	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	95	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	96	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	91	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.026	0.028	-7.7	101	0.00
42	l5	1232-2		0.024	0.023	4.2	91	0.00
43	l5	1232-3		0.050	0.048	4.0	91	0.00
44	l5	1232-4		0.020	0.020	0.0	93	0.00
45	l5	1232-5		0.015	0.014	6.7	92	0.00
46	l8	1262-1		0.070	0.072	-2.9	97	0.00
47	l8	1262-2		0.091	0.091	0.0	95	0.00
48	l8	1262-3		0.079	0.078	1.3	94	0.00
49	l8	1262-4		0.160	0.154	3.8	91	0.00
50	l8	1262-5		0.050	0.049	2.0	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	91	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.231	0.1	73	0.00
3	s	Decachlorobiphenyl		0.580	0.649	-11.9	86	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00
41	l5	1232-1		0.025	0.026	-4.0	108	0.00
42	l5	1232-2		0.025	0.024	4.0	100	0.00
43	l5	1232-3		0.045	0.043	4.4	99	0.00
44	l5	1232-4		0.018	0.017	5.6	100	0.00
45	l5	1232-5		0.013	0.011	15.4	91	0.00
46	l8	1262-1		0.049	0.047	4.1	99	0.00
47	l8	1262-2		0.065	0.062	4.6	99	0.00
48	l8	1262-3		0.059	0.057	3.4	100	0.00
49	l8	1262-4		0.110	0.105	4.5	99	0.00
50	l8	1262-5		0.039	0.039	0.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1	0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2	0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3	0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4	0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5	0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
14) i	2154_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	313.7E6	221.8E6	16.592M3	15.985
	Spiked Amount	20.000	Range 30 - 150		Recovery =	82.96%	79.92%
3) s	Decachlorobi	4.023	4.536	454.7E6	233.8E6	37.216	35.778
	Spiked Amount	20.000	Range 30 - 150		Recovery =	186.08%#	178.89%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	1.587	1.806	100.3E6	72884282	266.130	260.213M4
42) l5	1232-2	1.729	1.978	82707706	67314394	238.896	241.942
43) l5	1232-3	1.918	2.180	173.9E6	120.8E6	240.092	239.618
44) l5	1232-4	1.973	2.240	71566461	48899768	243.151	239.904
45) l5	1232-5	2.327	2.627	51913229	32015172	240.426	218.810
Sum	1232-1			480.3E6	341.9E6	1228.696	1200.487
Average	1232-1					245.739	240.097
46) l8	1262-1	2.818	3.163	258.8E6	131.1E6	254.785	239.557
47) l8	1262-2	3.010	3.397	327.2E6	174.2E6	250.297	237.637
48) l8	1262-3	3.134	3.556	281.9E6	159.6E6	246.303	240.220
49) l8	1262-4	3.290	3.685	554.6E6	296.5E6	240.099	239.507
50) l8	1262-5	3.765	4.202	176.8E6	109.5E6	246.126M4	250.504
Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

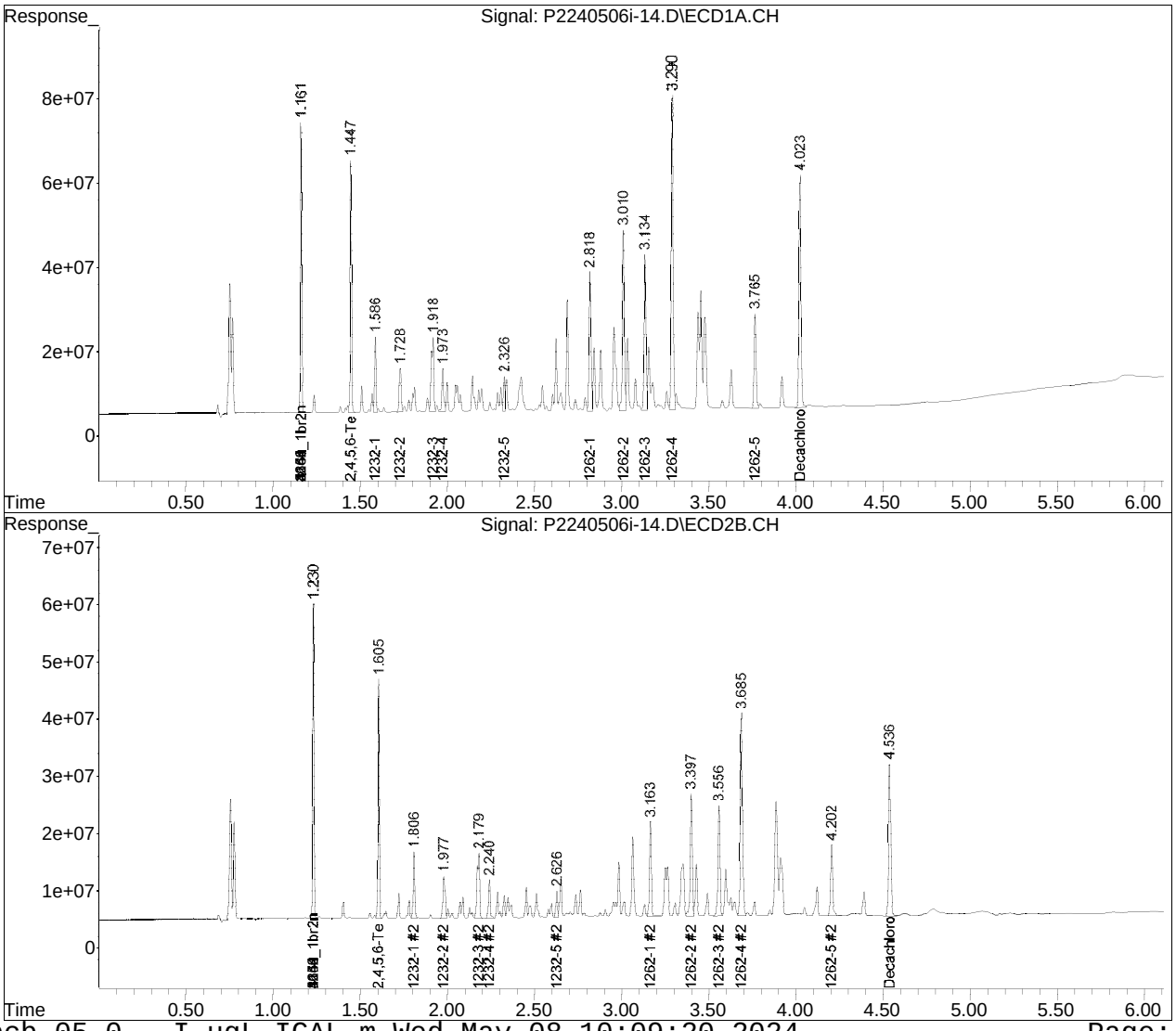
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

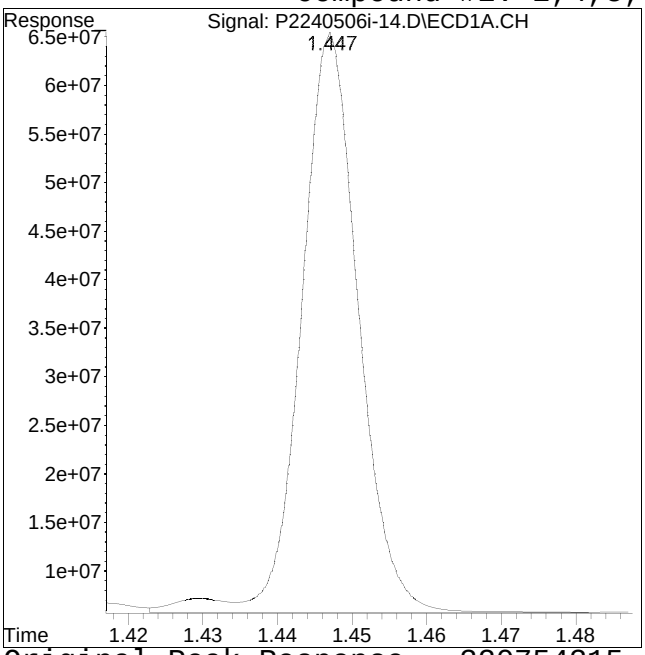
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

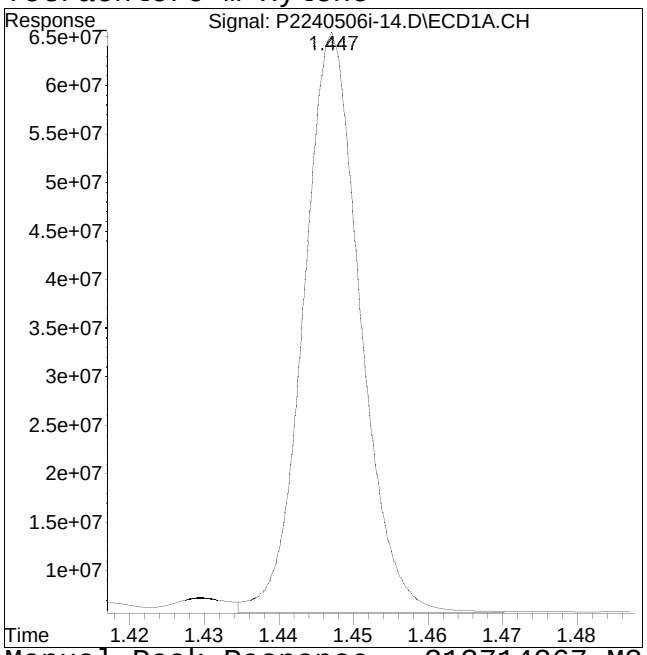


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



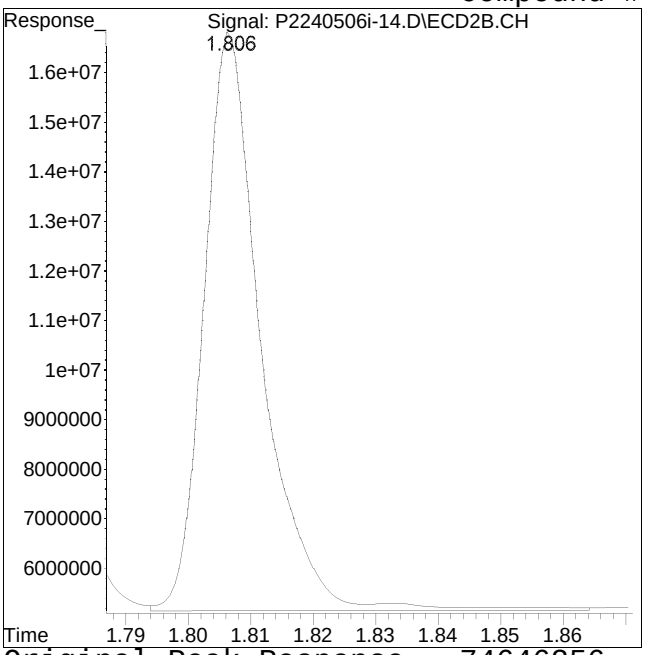


Original Peak Response = 320754315 Manual Peak Response = 313714267 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

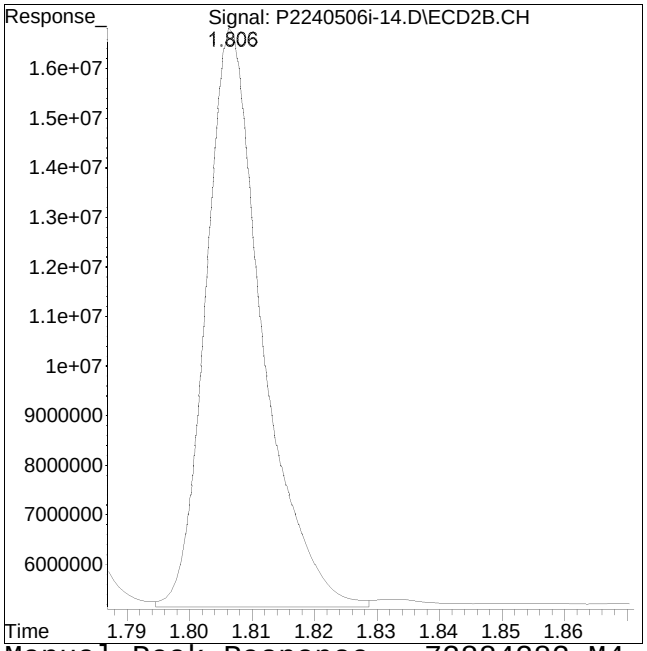
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #92: 1232-1 #2



Original Peak Response = 74646256



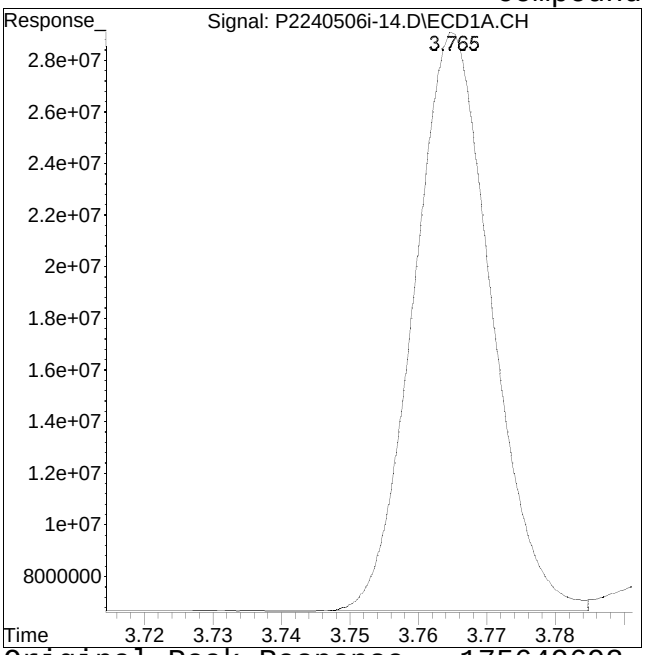
Manual Peak Response = 72884282 M4

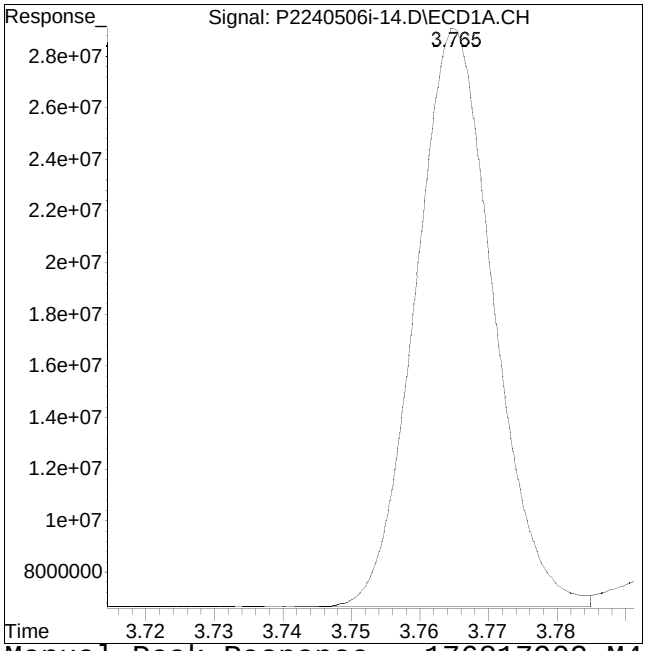
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #50: 1262-5





Original Peak Response = 175649692 Manual Peak Response = 176817902 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.298	1.0	74	0.00
3	s	Decachlorobiphenyl		0.847	0.986	-16.4	90	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	104	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
35	l7	1248-1		0.057	0.060	-5.3	105	0.01
36	l7	1248-2		0.074	0.065	12.2	89	0.00
37	l7	1248-3		0.065	0.059	9.2	90	0.00
38	l7	1248-4		0.058	0.052	10.3	90	0.00
39	l7	1248-5		0.050	0.051	-2.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.222	0.8	75	0.00
3	s	Decachlorobiphenyl		0.580	0.675	-16.4	93	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
35	l7	1248-1		0.052	0.056	-7.7	109	0.01
36	l7	1248-2		0.034	0.032	5.9	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.043	0.040	7.0	92	0.00
38	l7	1248-4		0.048	0.044	8.3	92	0.00
39	l7	1248-5		0.054	0.052	3.7	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
14) i	2154_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
23) i	4268_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
34) i	1248_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
40) i	3262_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	327.8E6	228.4E6	15.843	15.872
	Spiked Amount 20.000	Range 30 - 150		Recovery =		79.22%	79.36%
3) s	Decachlorobi	4.022	4.537	498.3E6	252.5E6	37.269	37.259
	Spiked Amount 20.000	Range 30 - 150		Recovery =		186.34%#	186.30%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.918	2.179	237.0E6	165.0E6	263.140	271.725
36) l7	1248-2	2.047	2.325	258.1E6	92555766	222.123M1	230.259
37) l7	1248-3	2.144	2.451	232.7E6	115.4E6	226.522	228.395
38) l7	1248-4	2.326	2.626	206.5E6	127.5E6	225.373	229.278
39) l7	1248-5	2.339	2.650	201.3E6	150.8E6	253.464	237.742

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			1135.7E6	651.2E6	1190.621	1197.399
Average	1248-1					238.124	239.480
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

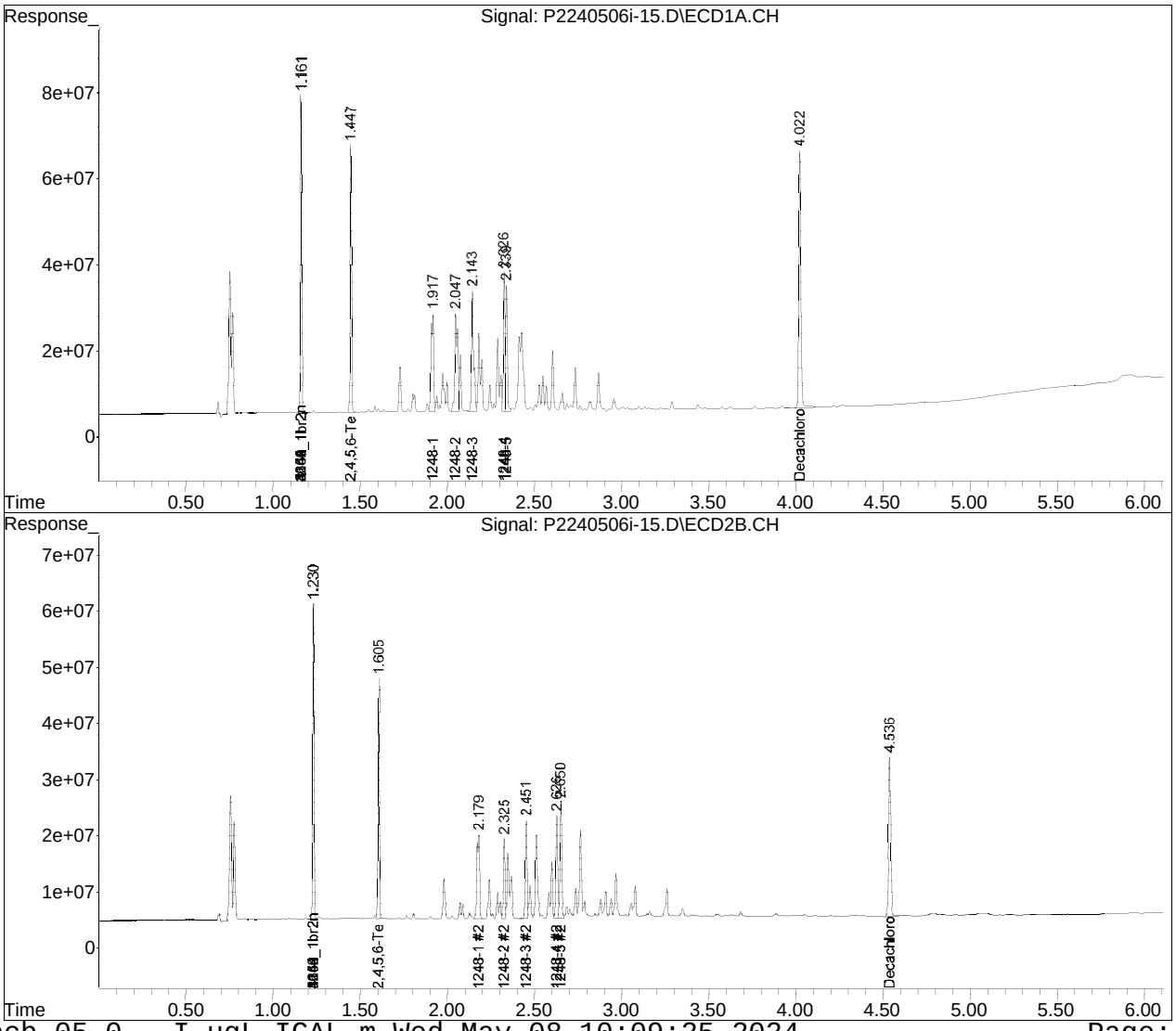
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

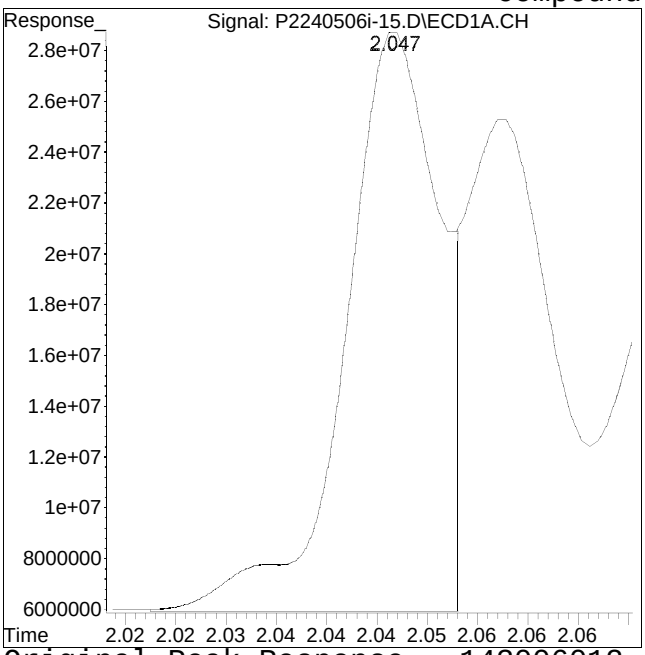
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

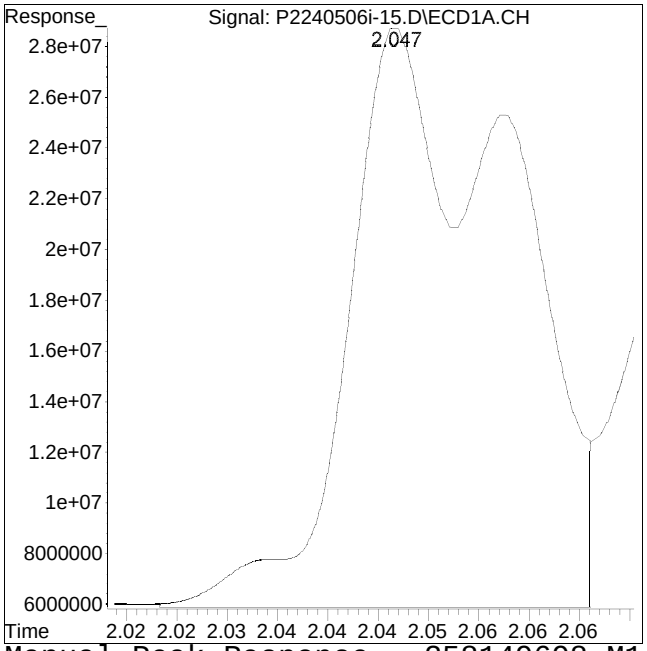


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-15.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:42 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 5/7/2024 4:44 pm

Compound #36: 1248-2





Original Peak Response = 143006012 Manual Peak Response = 258149698 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.178	10.1	70	0.00
3	s	Decachlorobiphenyl		0.847	0.861	-1.7	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
15	l3	1221-2		0.015	0.012	20.0	87	0.00
16	l3	1221-3		0.00895	0.00709	20.8#	85	0.00
17	l3	1221-4		0.035	0.028	20.0#	87	0.00
18	l4	1254-1		0.050	0.044	12.0	93	0.00
19	l4	1254-2		0.090	0.080	11.1	96	0.00
20	l4	1254-3		0.095	0.085	10.5	96	0.00
21	l4	1254-4		0.067	0.059	11.9	95	0.00
22	l4	1254-5		0.091	0.077	15.4	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	103	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.119	9.2	71	0.00
3	s	Decachlorobiphenyl		0.580	0.612	-5.5	87	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	111	0.00
15	l3	1221-2		0.015	0.012	20.0	88	0.00
16	l3	1221-3		0.00933	0.00756	19.0	90	0.00
17	l3	1221-4		0.034	0.028	17.6	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.046	0.042	8.7	101	0.00
19	l4	1254-2		0.052	0.047	9.6	100	0.00
20	l4	1254-3		0.078	0.070	10.3	100	0.00
21	l4	1254-4		0.048	0.047	2.1	108	0.00
22	l4	1254-5		0.071	0.060	15.5	94	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	112	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1		0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2		0.167	0.000	100.0#	0#	-3.47#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	308.2E6	217.5E6	14.382	14.534
	Spiked Amount	20.000	Range 30 - 150		Recovery =	71.91%	72.67%
3) s	Decachlorobi	4.022	4.536	450.5E6	237.9E6	32.528M4	33.753
	Spiked Amount	20.000	Range 30 - 150		Recovery =	162.64%#	168.77%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.510	1.721	48108664	36664748	202.154	199.604
16) l3	1221-3	1.569	1.780	28986702	22977877	198.186	202.776M3
17) l3	1221-4	1.586	1.806	116.3E6	84020572	203.181M3	205.054M3
	Sum 1221-2			193.4E6	143.7E6	603.521	607.434
Average	1221-2					201.174	202.478
18) l4	1254-1	2.307	2.648	178.5E6	127.6E6	217.391	228.228
19) l4	1254-2	2.420	2.735	328.7E6	143.4E6	224.511	224.888
20) l4	1254-3	2.603	2.965	348.0E6	212.7E6	223.820M1	225.847
21) l4	1254-4	2.733	3.076	240.7E6	141.4E6	221.185	242.784
22) l4	1254-5	2.956	3.352	313.0E6	182.3E6	209.753	212.443
	Sum 1254-1			1408.9E6	807.4E6	1096.660	1134.191
Average	1254-1					219.332	226.838
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

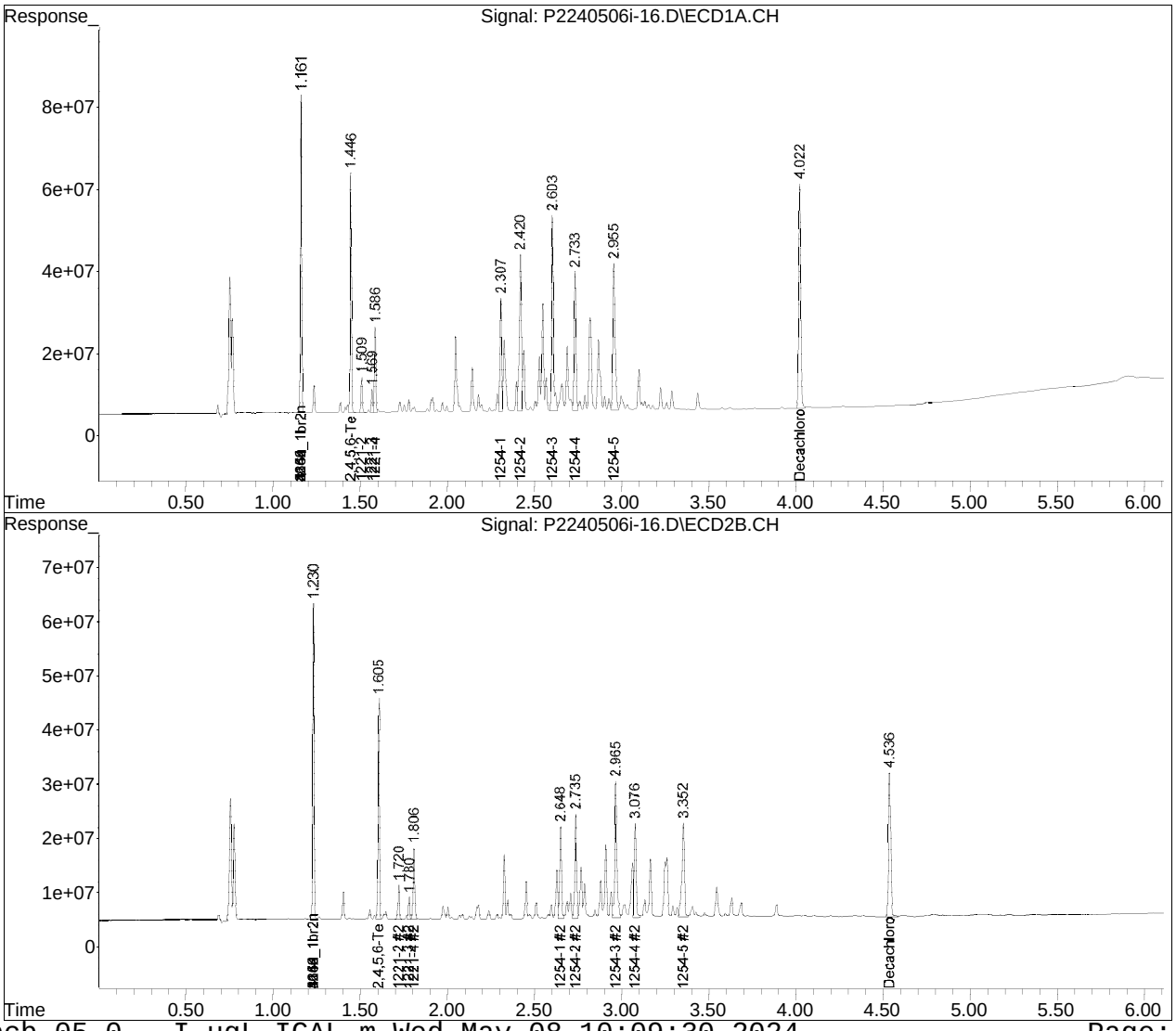
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

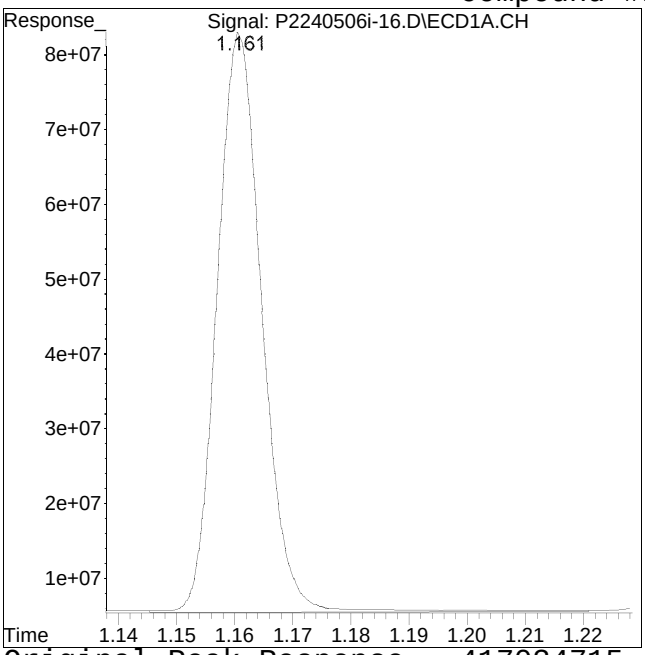
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

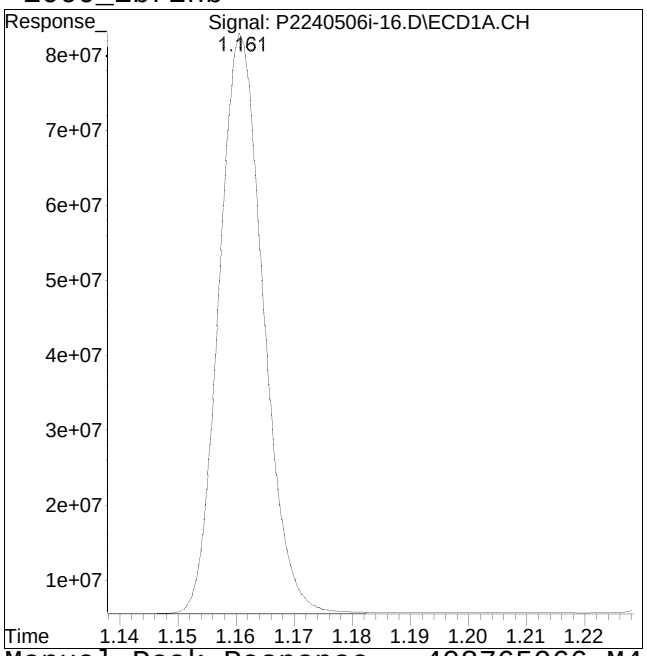


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #1: 1660_1br2nb



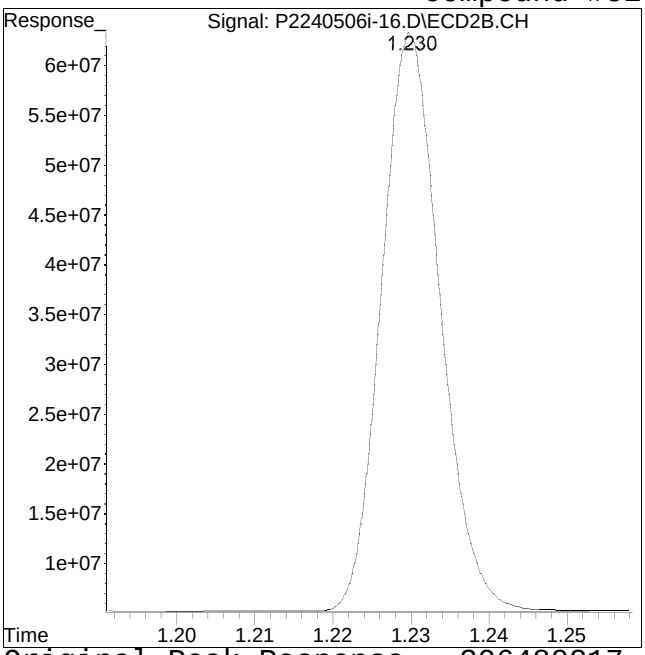


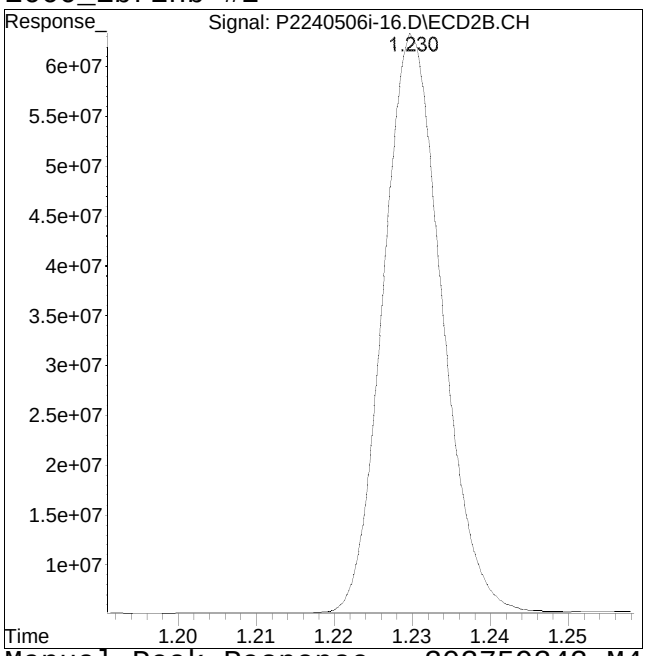
Original Peak Response = 417034715 Manual Peak Response = 408765066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #52: 1660_1br2nb #2



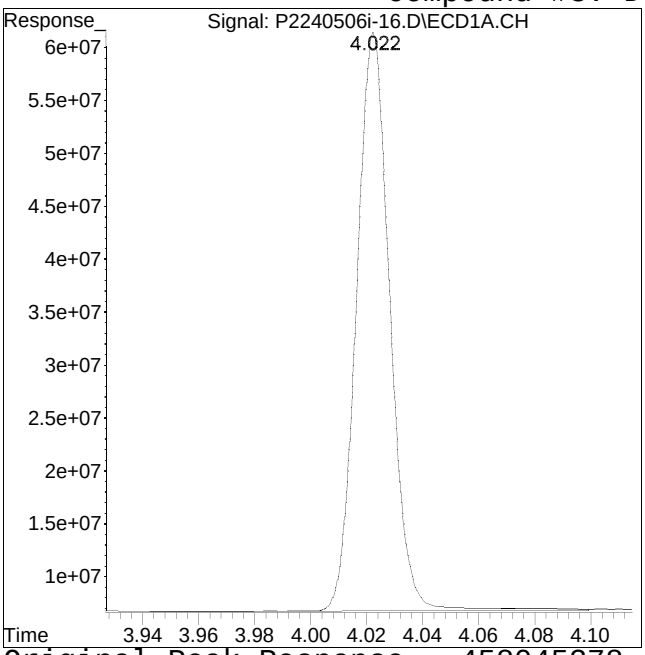


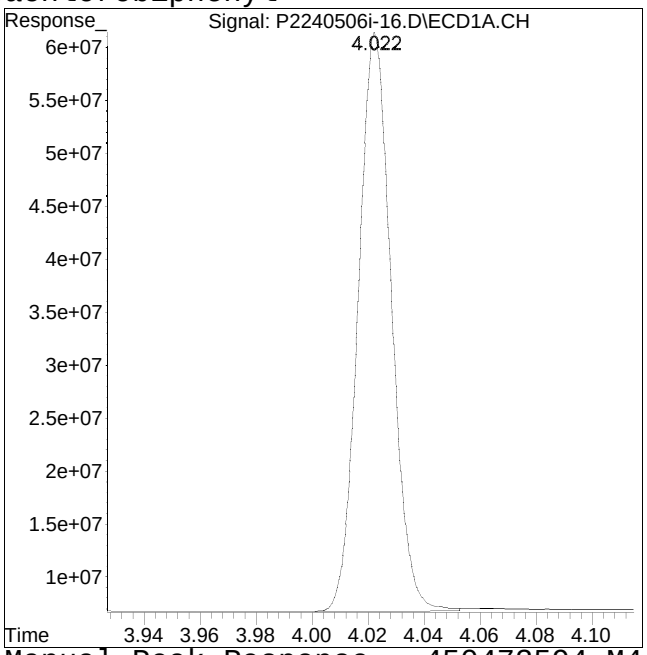
Original Peak Response = 306480217 Manual Peak Response = 303759342 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #3: Decachlorobiphenyl



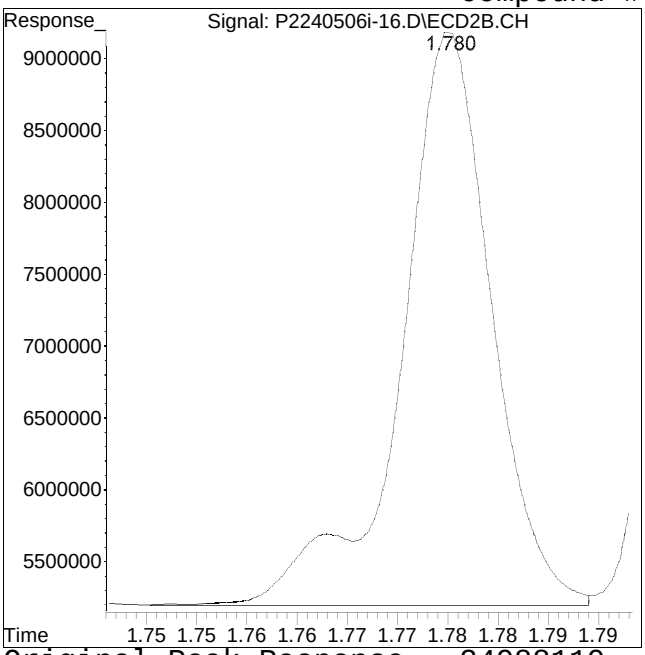


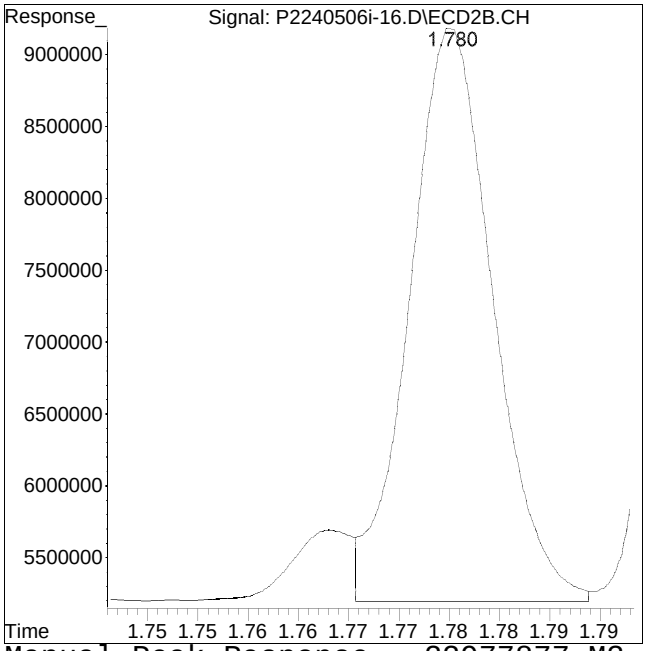
Original Peak Response = 458045378 Manual Peak Response = 450473594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #67: 1221-3 #2



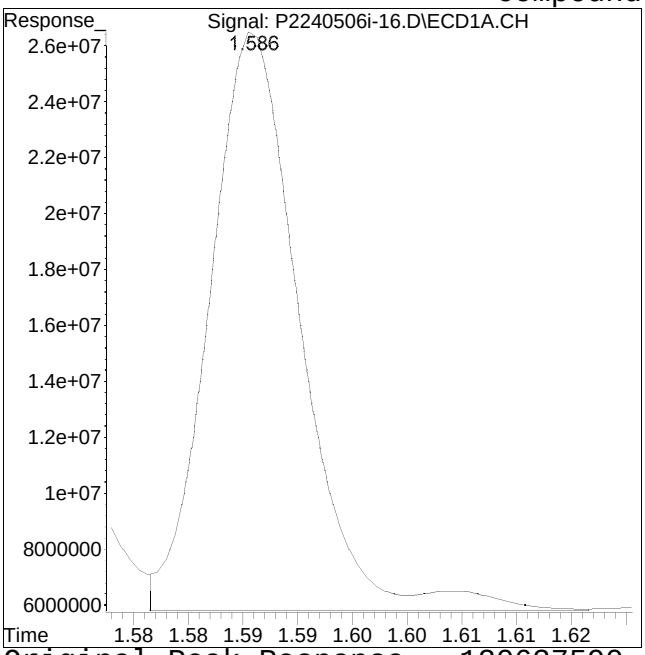


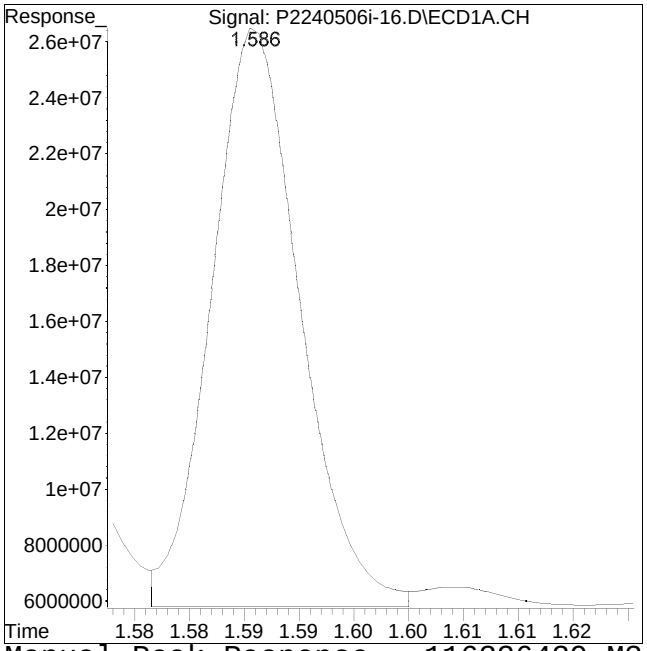
Original Peak Response = 24988119 Manual Peak Response = 22977877 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #17: 1221-4



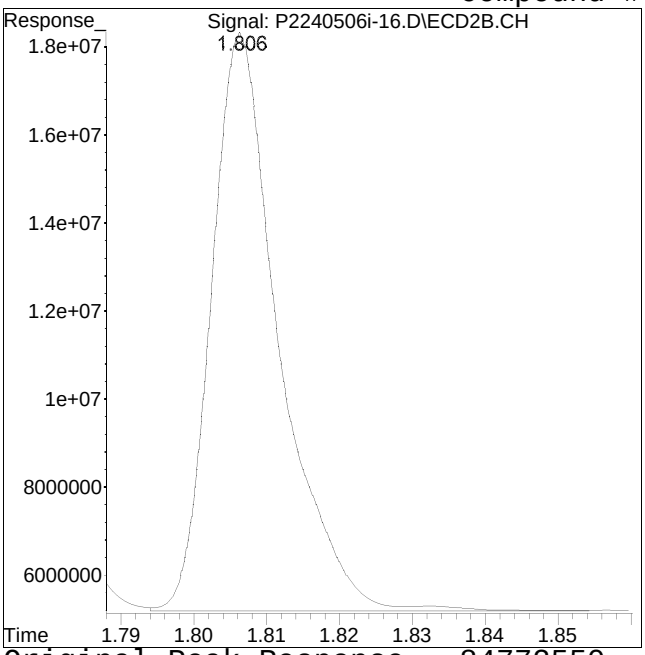


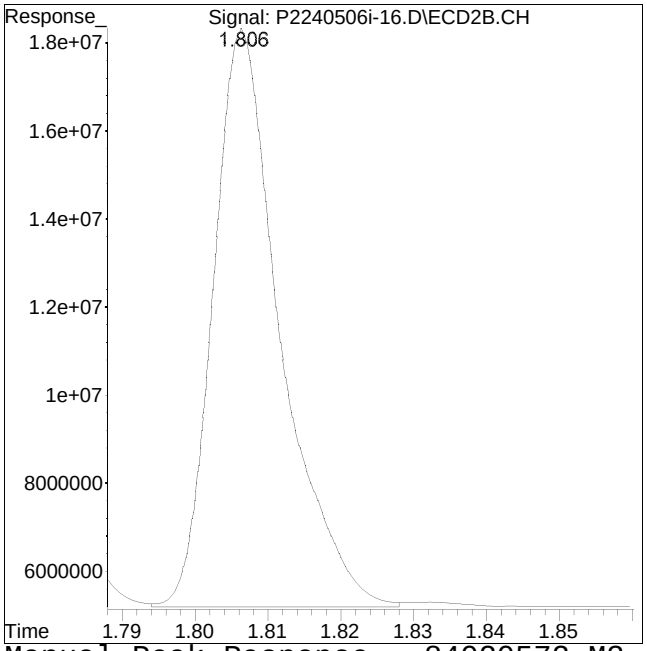
Original Peak Response = 120637590 Manual Peak Response = 116336439 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #68: 1221-4 #2



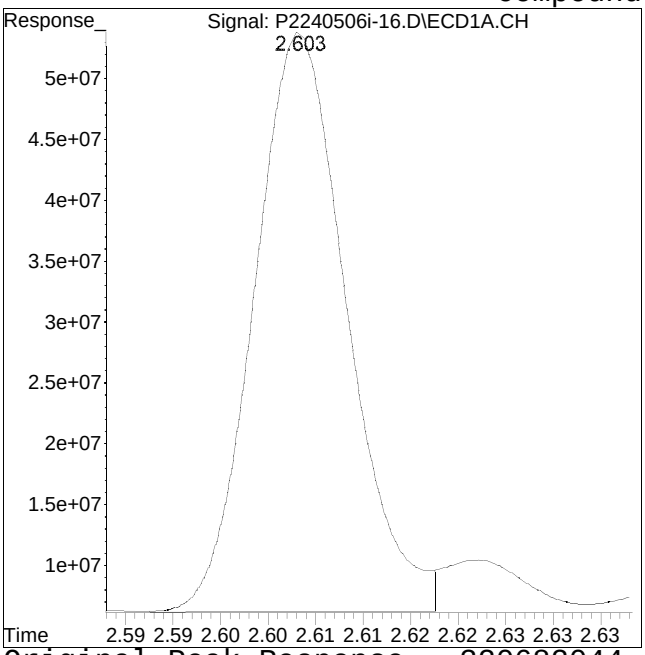


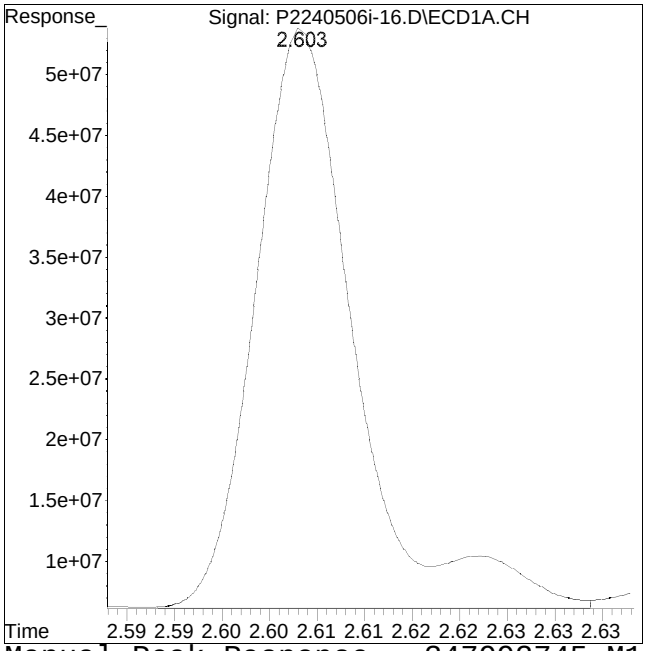
Original Peak Response = 84772550 Manual Peak Response = 84020572 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #20: 1254-3





Original Peak Response = 320682044 Manual Peak Response = 347993745 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.225	441.4E6	313.8E6	25.000	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.601	11388483	8343622	0.492	0.535
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.46%#	2.68%#
3) s	Decachlorobi	4.023	4.533	16750063	8510498	0.419M4	1.148M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.10%#	5.74%#
	Target Compounds						
4) l1	1016-1	1.584	1.803	3450981	2331136	8.405M4	8.707M5
5) l1	1016-2	1.726	1.975	6769076	5116199	7.846M4	8.669M4
6) l1	1016-3	1.916	2.176	13963884	10750016	7.759M4	9.175M4
7) l1	1016-4	1.971	2.236	5637064	3338891	7.770M3	7.351M4
8) l1	1016-5	2.142	2.447	6947810	3199324	8.725M4	8.197M4
	Sum 1016-1			36768814	24735565	40.505	42.098
	Average 1016-1					8.101	8.420
9) l2	1260-1	2.687	3.058	10067369	9159323	8.631M4	13.100M4
10) l2	1260-2	2.817	3.159	14349523	8268142	0.538M4	9.726M4

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	3.134	3.553	8892637	5160934	8.062M4	7.483M4
12) l2	1260-4	3.290	3.682	18580326	10937126	1.300M3	8.930M4
13) l2	1260-5	3.438	3.884	13302799	6780440	1.855M4	7.906M3
Sum	1260-1			65192654	40305965	N.D.	N.D. D
Average	1260-1					4.077	9.429 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

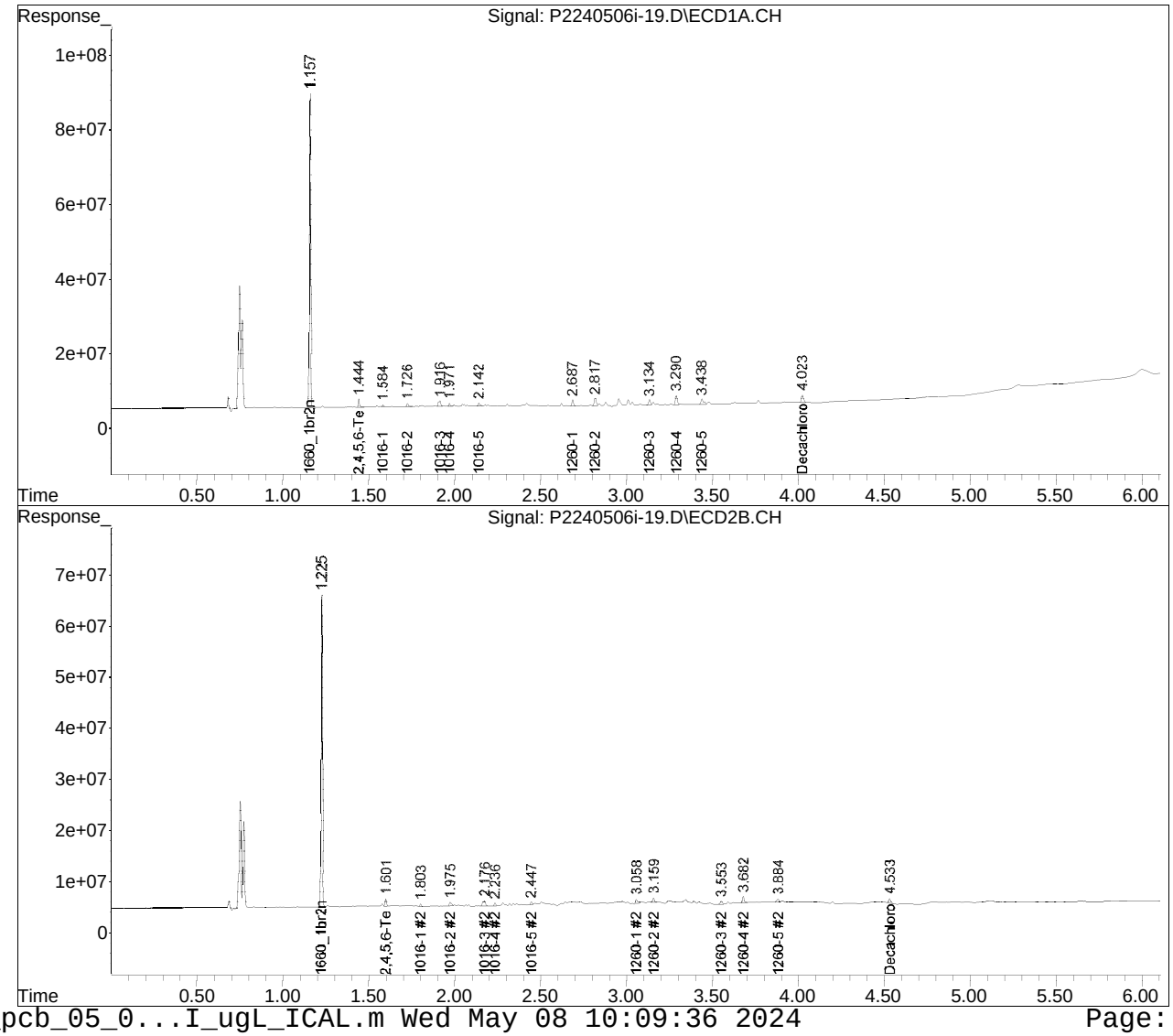
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

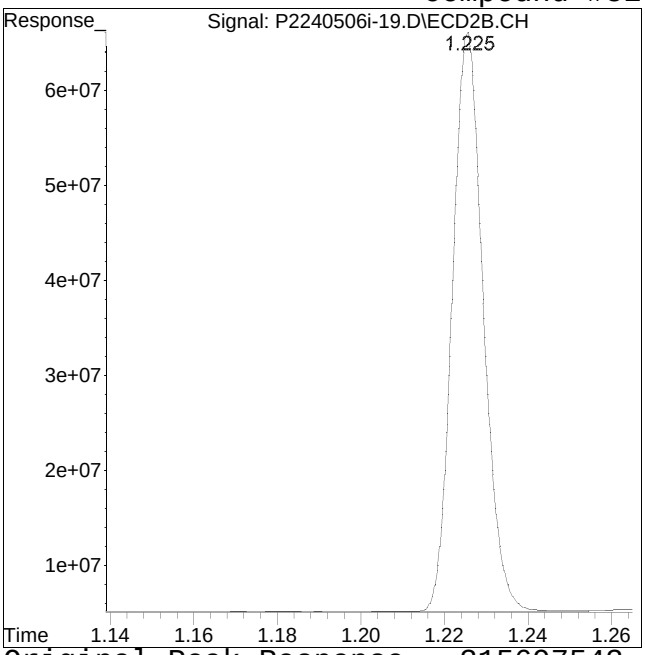
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

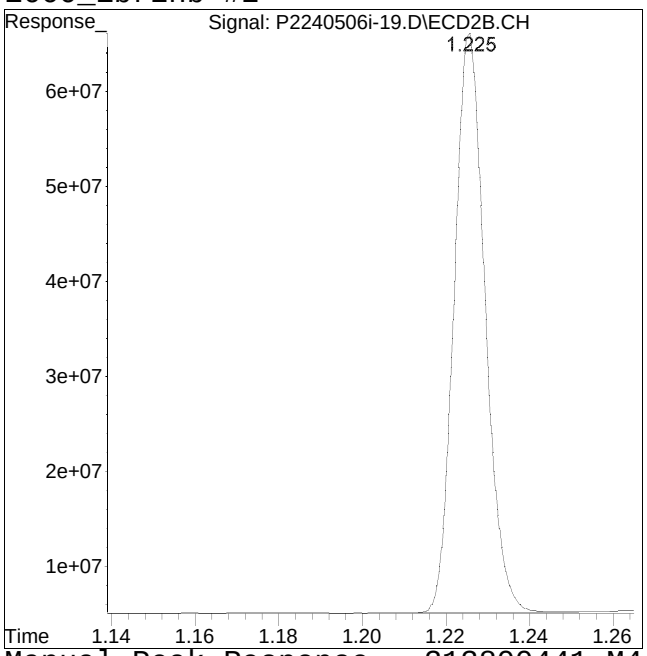


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #52: 1660_1br2nb #2



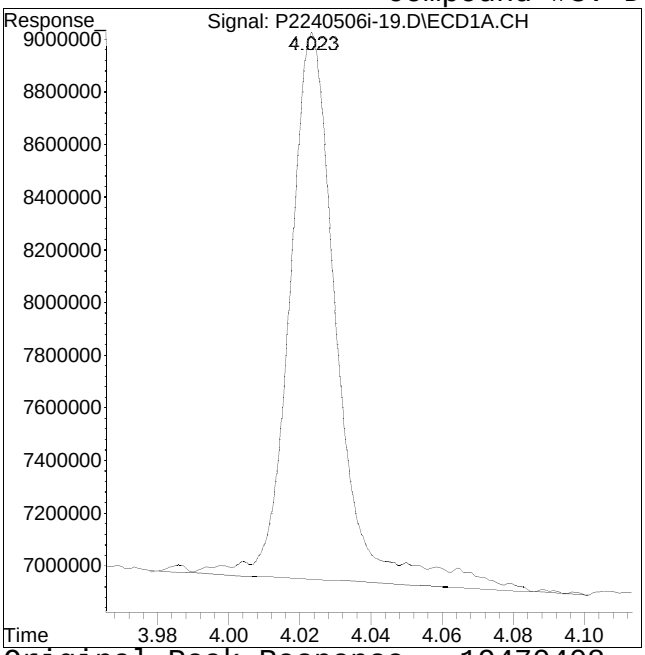


Original Peak Response = 315697543 Manual Peak Response = 313800441 M4
M4 = Poor automated baseline construction.

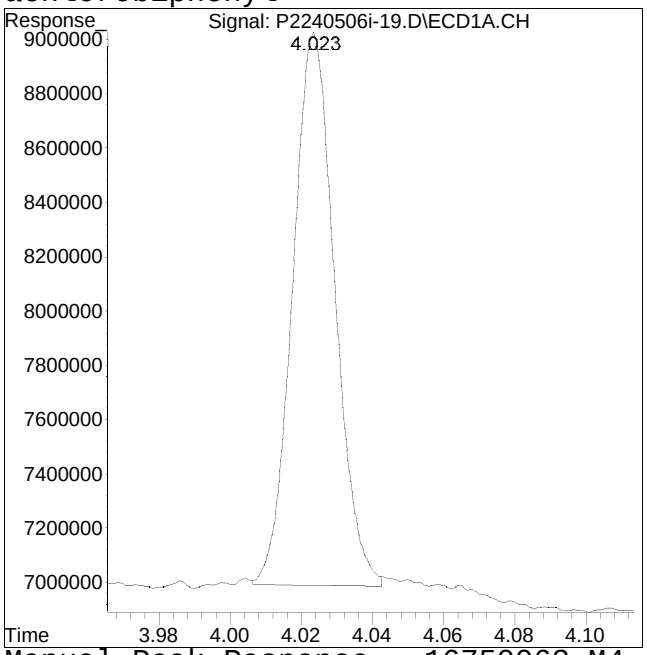
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 19470408



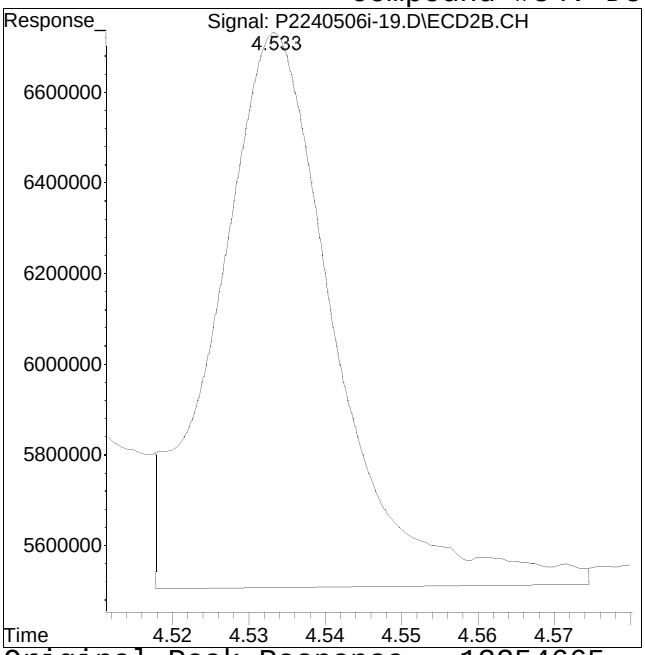
Manual Peak Response = 16750063 M4

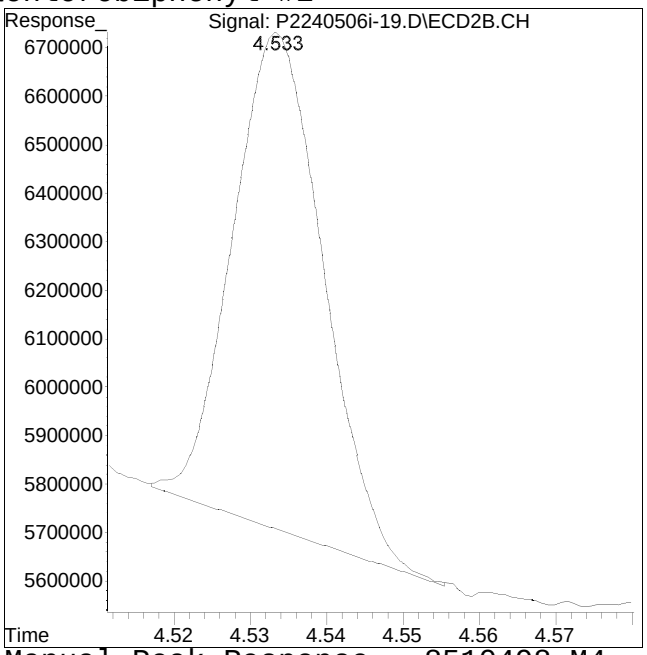
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #54: Decachlorobiphenyl #2



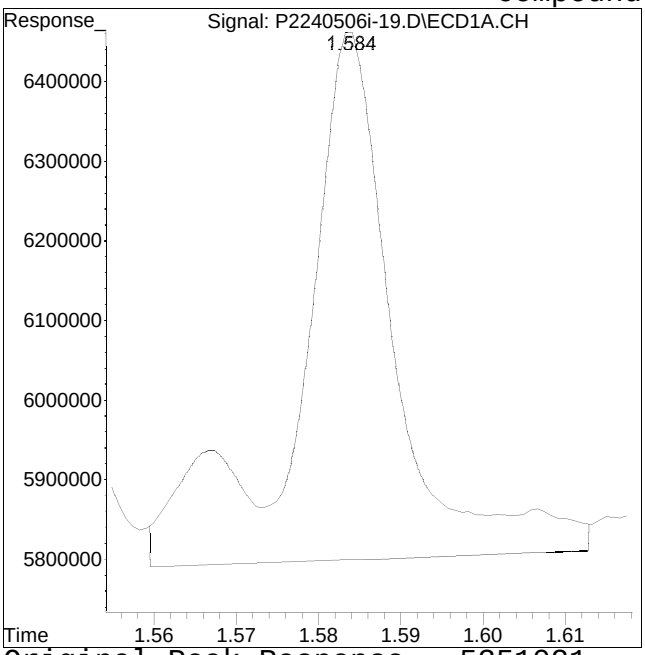


Original Peak Response = 13254665 Manual Peak Response = 8510498 M4
M4 = Poor automated baseline construction.

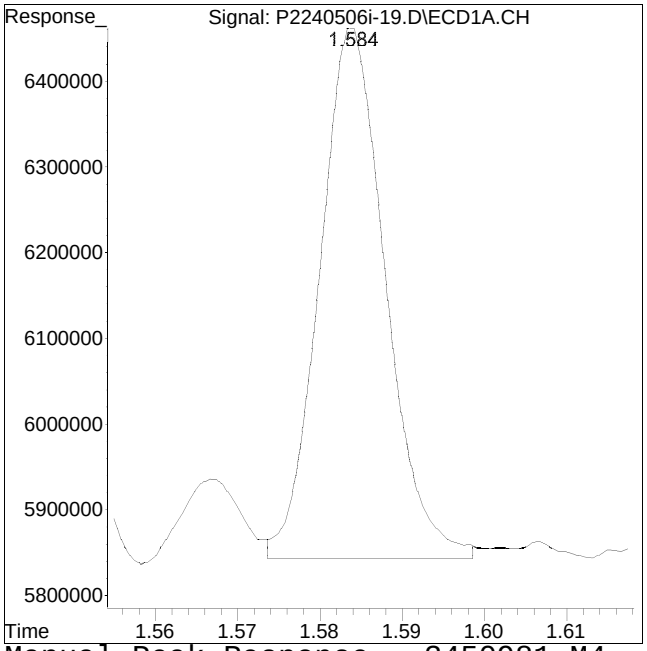
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #4: 1016-1



Original Peak Response = 5351021



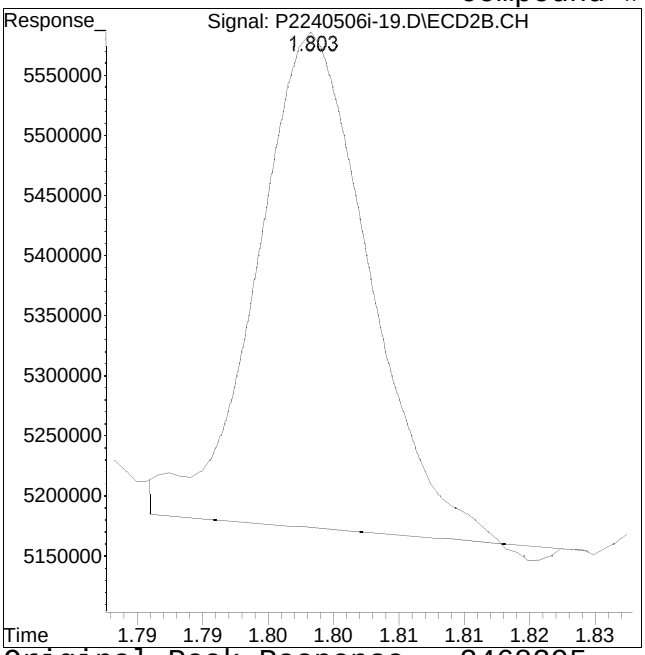
Manual Peak Response = 3450981 M4

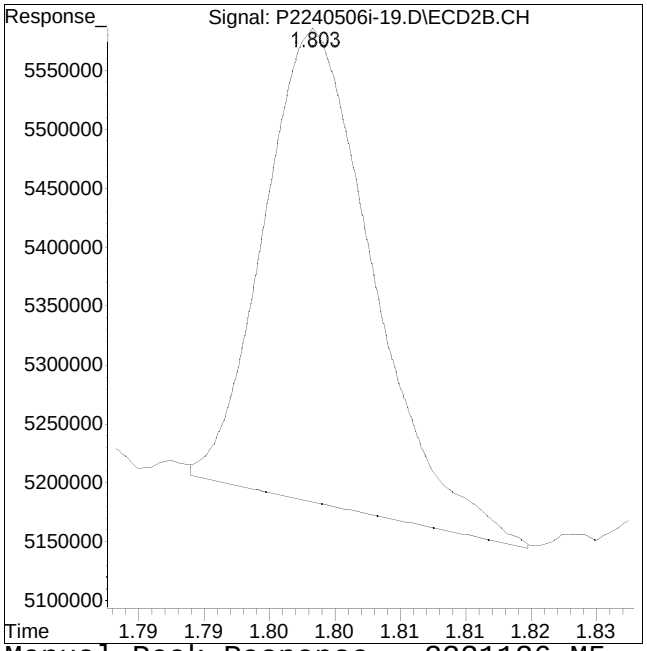
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #55: 1016-1 #2



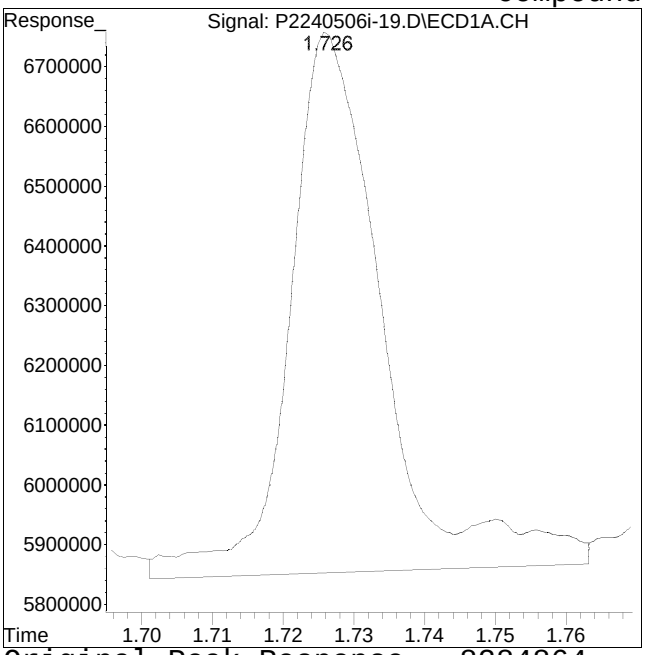


Original Peak Response = 2468295 Manual Peak Response = 2331136 M5
M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

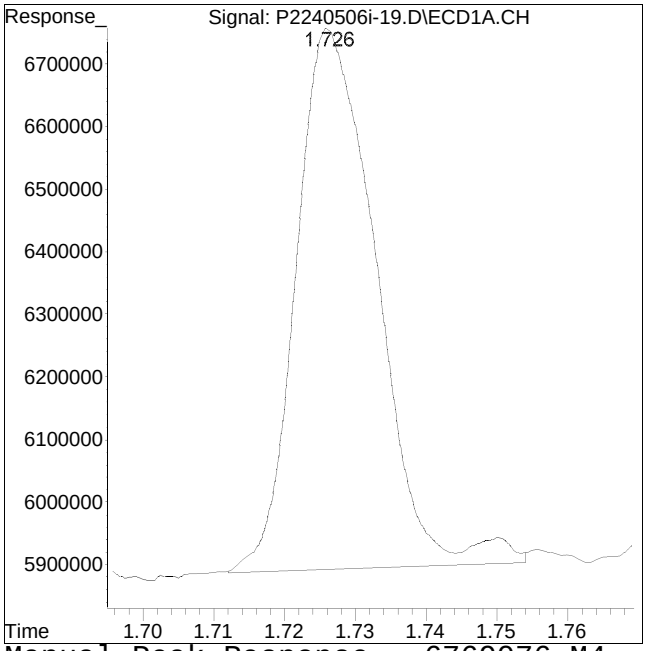
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #5: 1016-2



Original Peak Response = 8284864



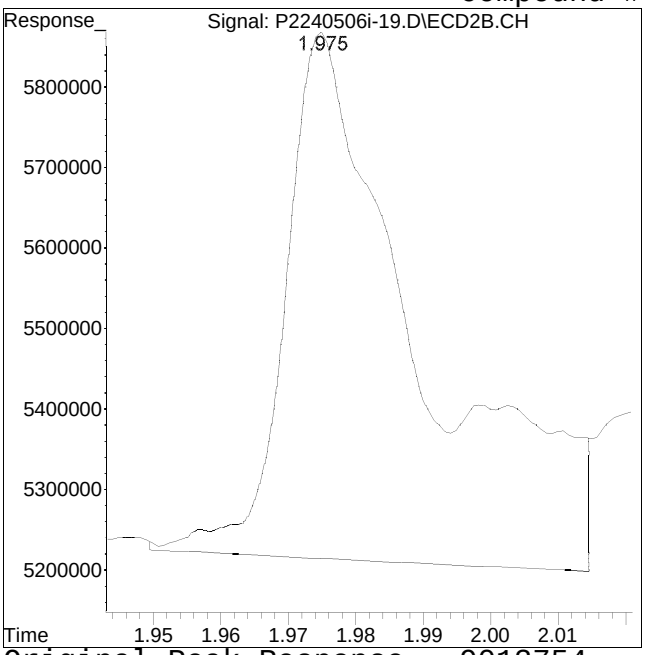
Manual Peak Response = 6769076 M4

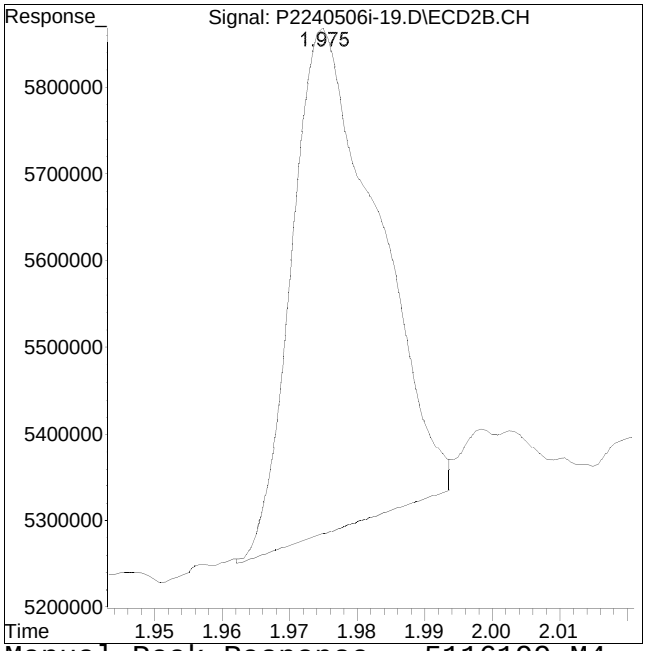
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #56: 1016-2 #2



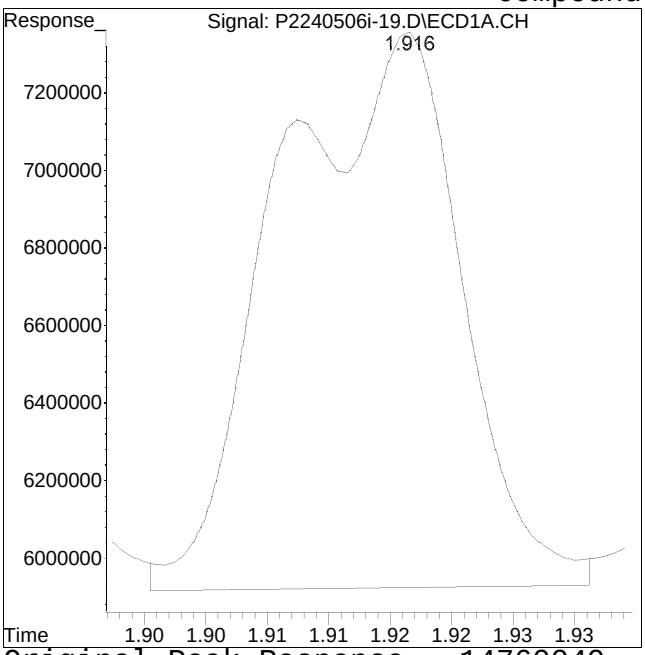


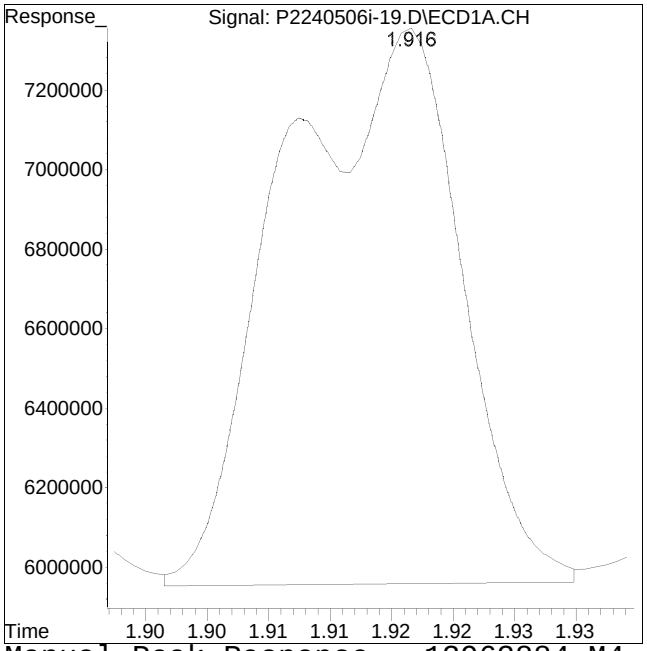
Original Peak Response = 9013754 Manual Peak Response = 5116199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #6: 1016-3



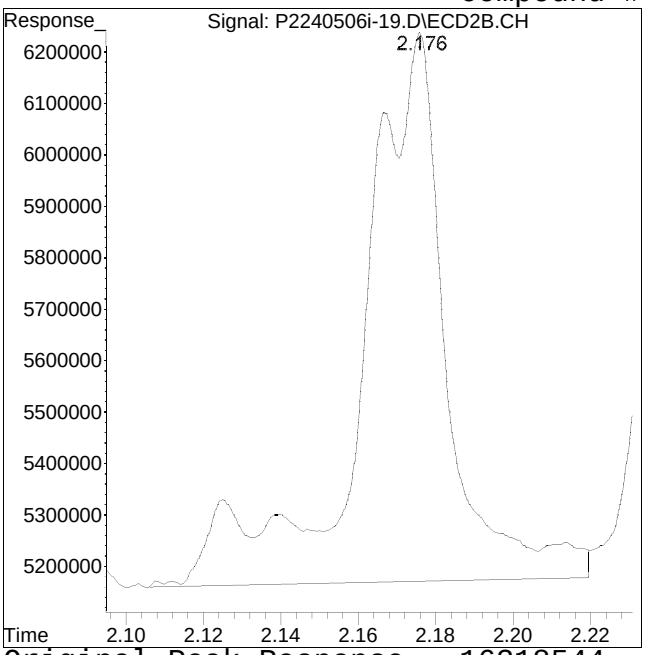


Original Peak Response = 14760049 Manual Peak Response = 13963884 M4
M4 = Poor automated baseline construction.

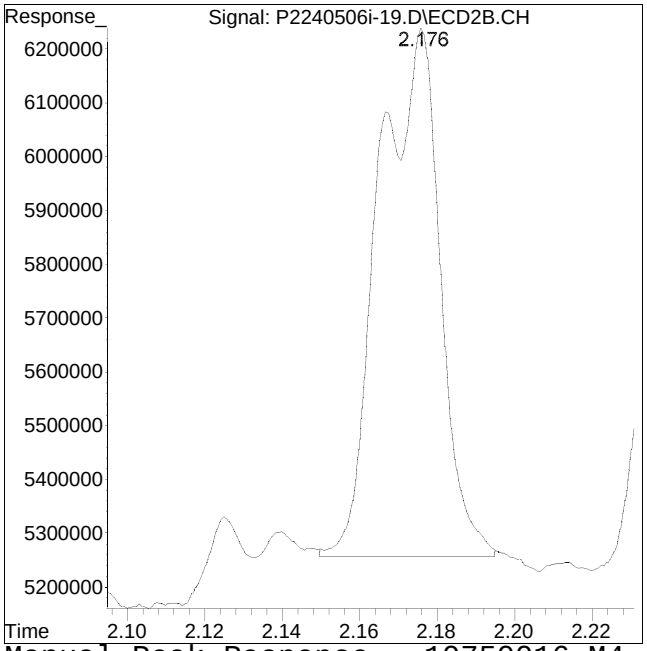
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #57: 1016-3 #2



Original Peak Response = 16318544



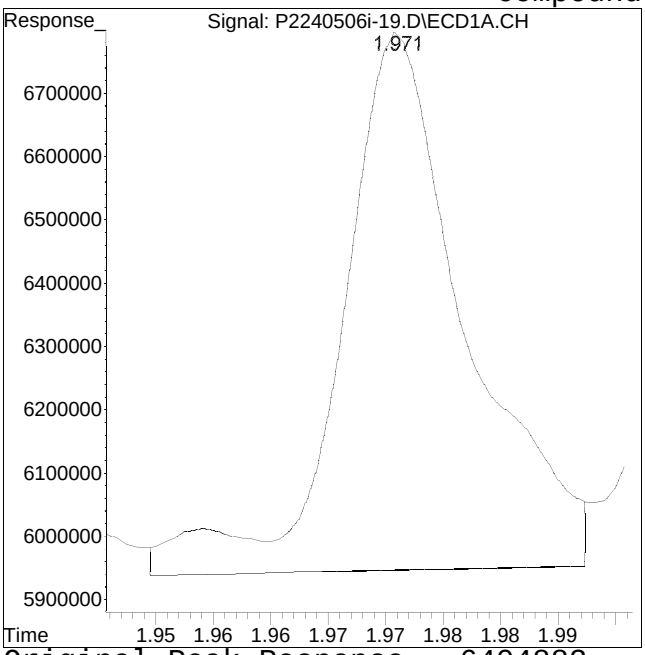
Manual Peak Response = 10750016 M4

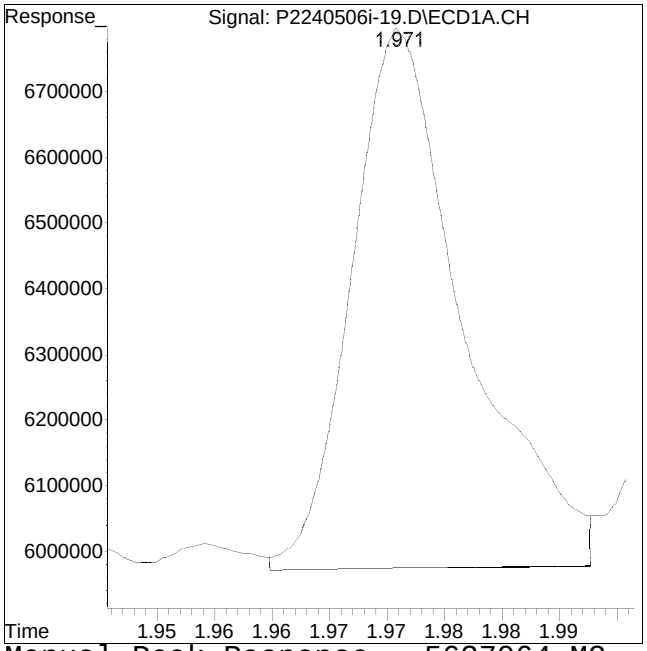
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #7: 1016-4



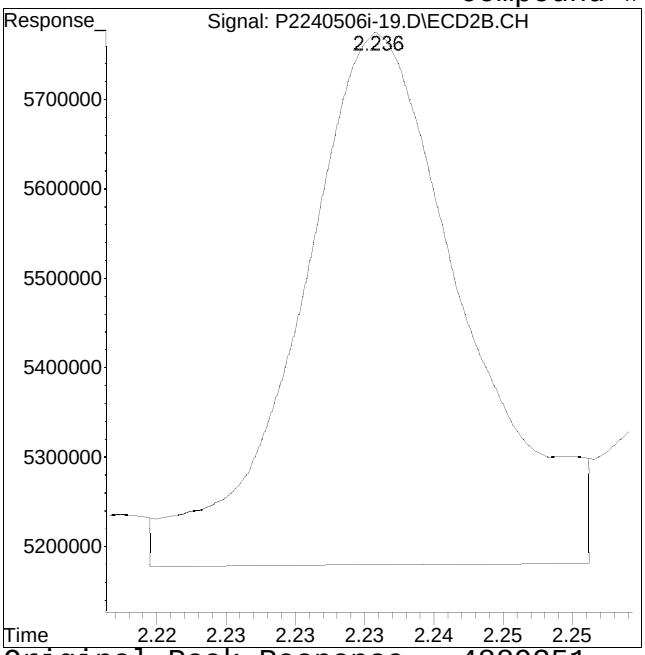


Original Peak Response = 6404883 Manual Peak Response = 5637064 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

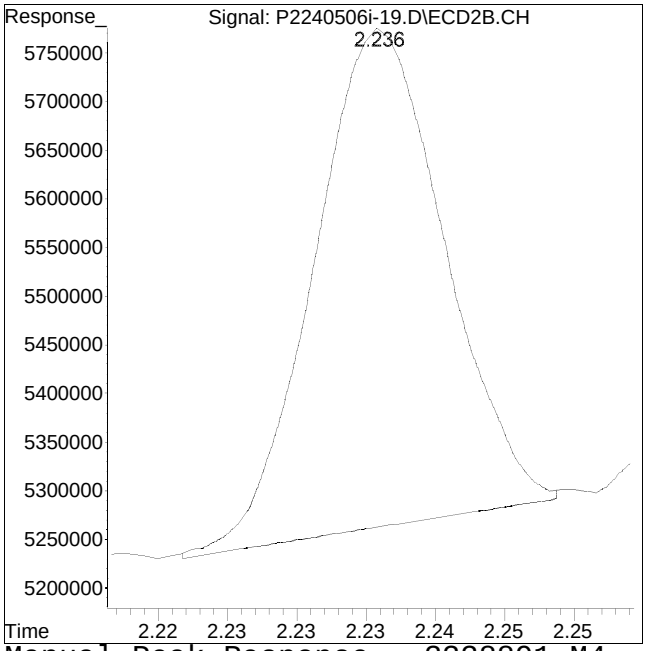
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #58: 1016-4 #2



Original Peak Response = 4889351



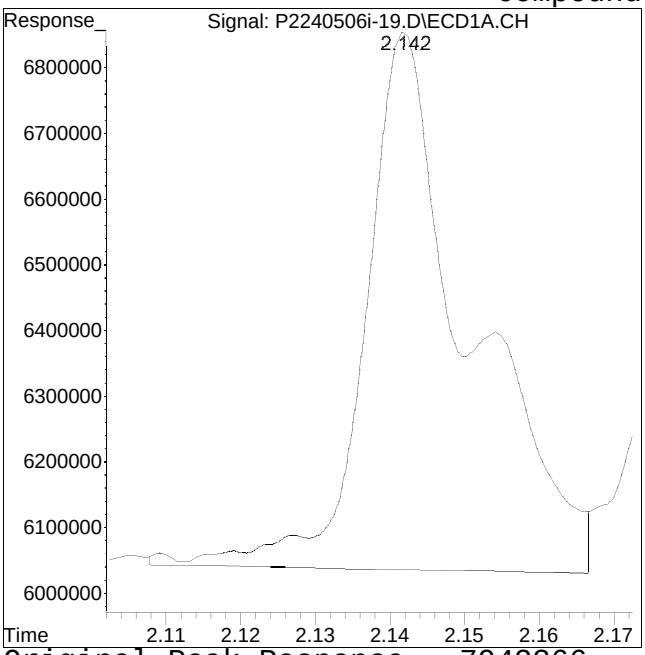
Manual Peak Response = 3338891 M4

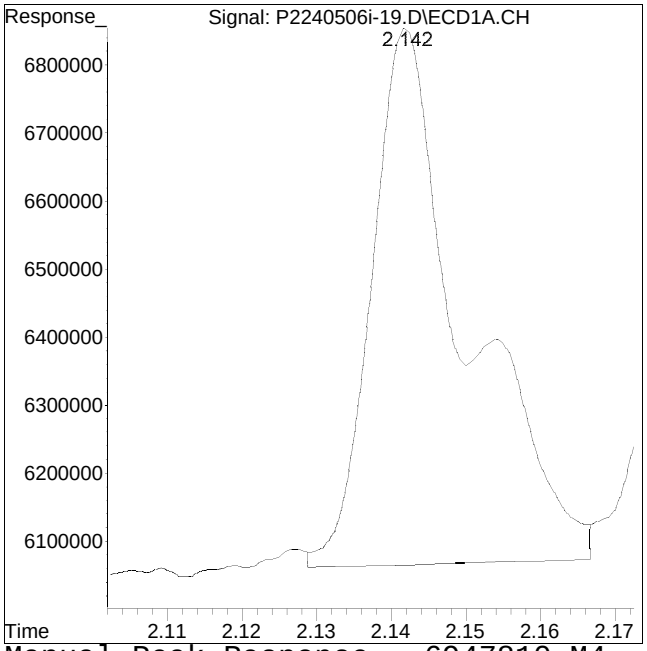
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #8: 1016-5



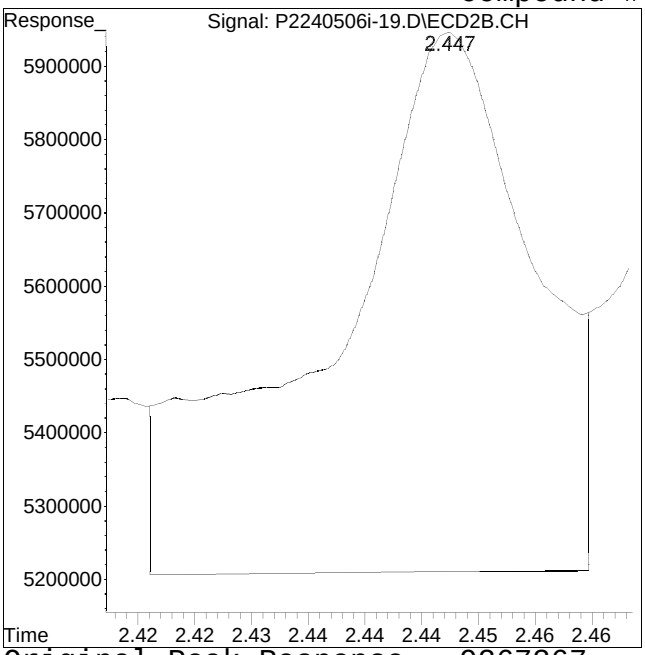


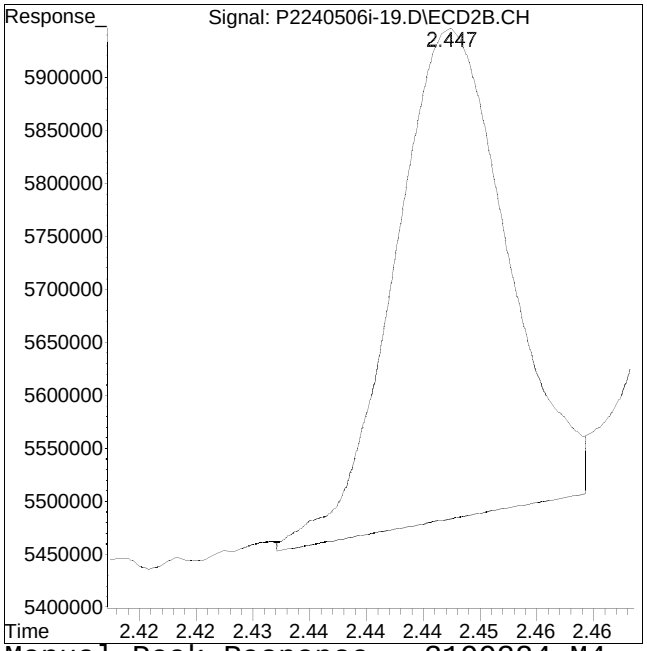
Original Peak Response = 7942366 Manual Peak Response = 6947810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #59: 1016-5 #2



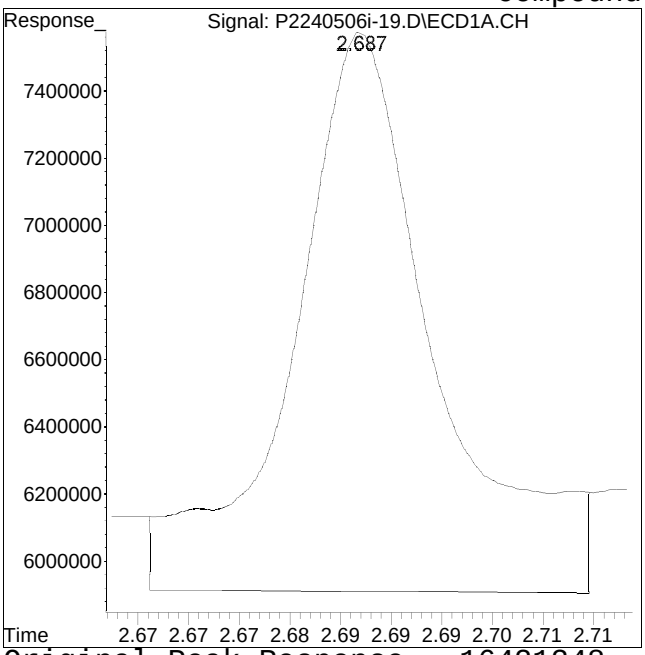


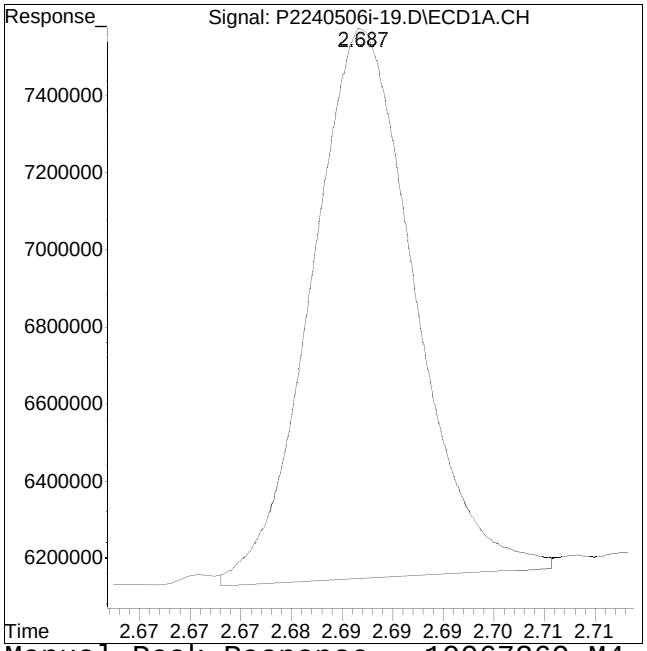
Original Peak Response = 9267367 Manual Peak Response = 3199324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #9: 1260-1



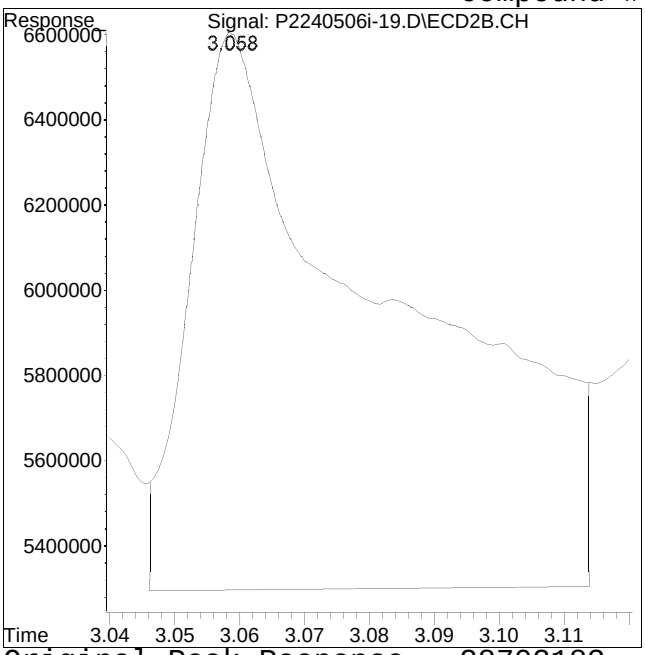


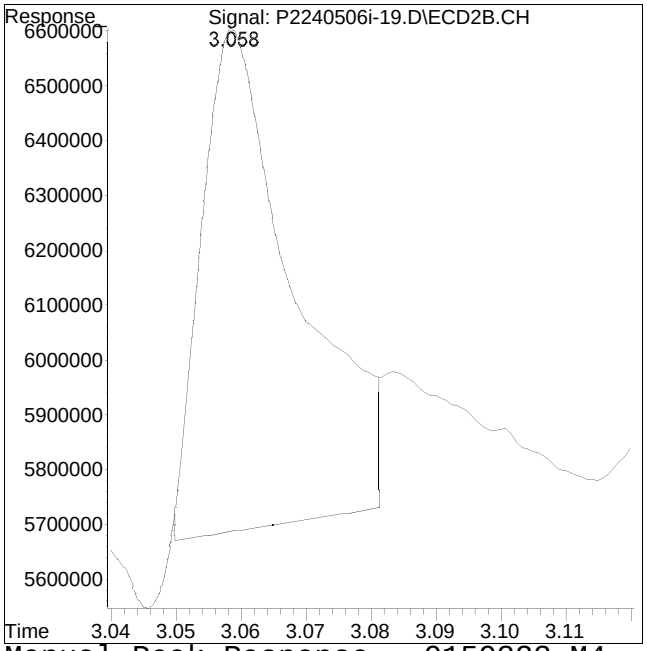
Original Peak Response = 16421248 Manual Peak Response = 10067369 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #60: 1260-1 #2



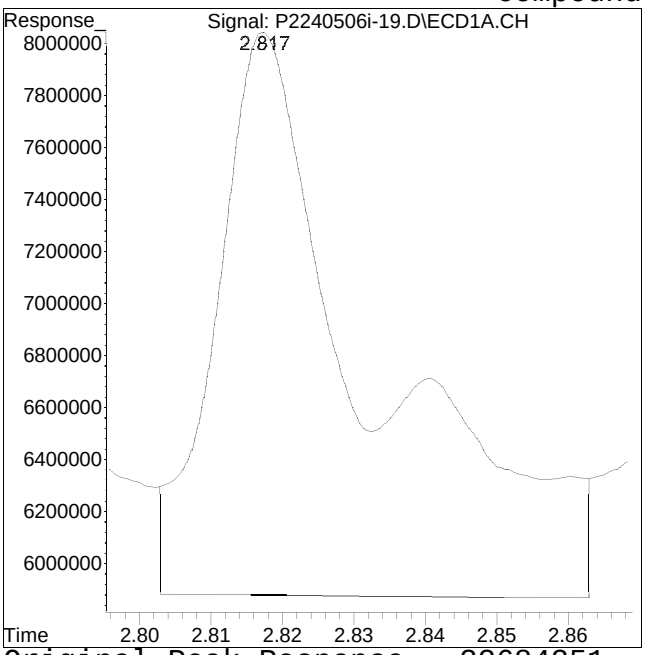


Original Peak Response = 28702183 Manual Peak Response = 9159323 M4
M4 = Poor automated baseline construction.

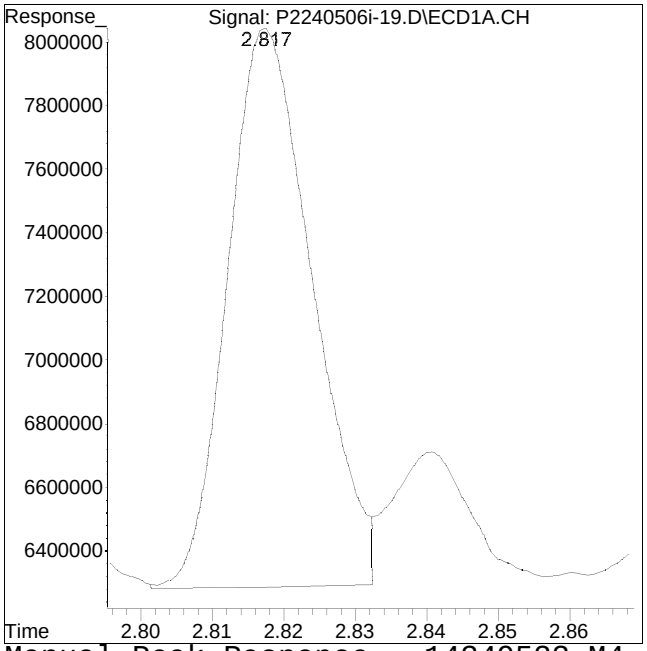
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #10: 1260-2



Original Peak Response = 32684251



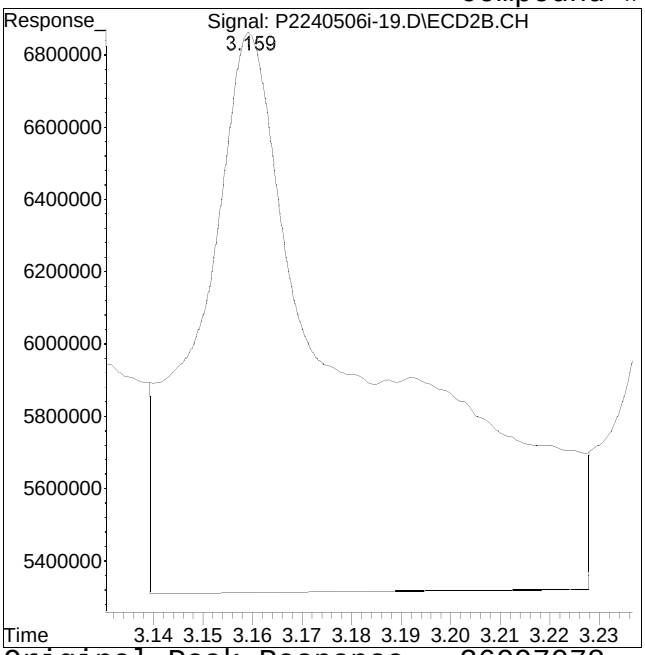
Manual Peak Response = 14349523 M4

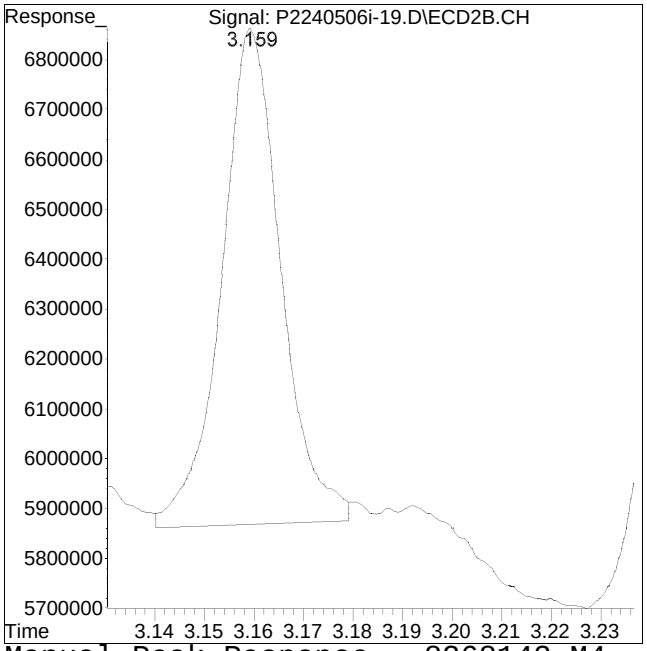
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #61: 1260-2 #2



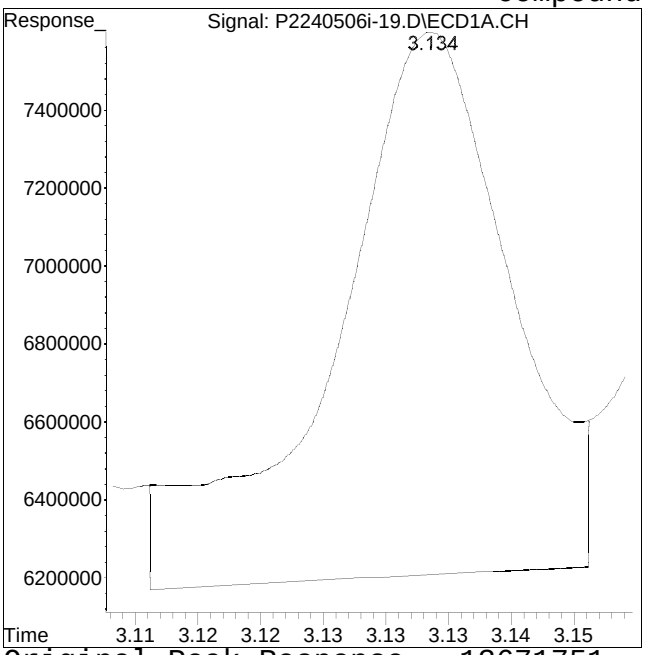


Original Peak Response = 36097078 Manual Peak Response = 8268142 M4
M4 = Poor automated baseline construction.

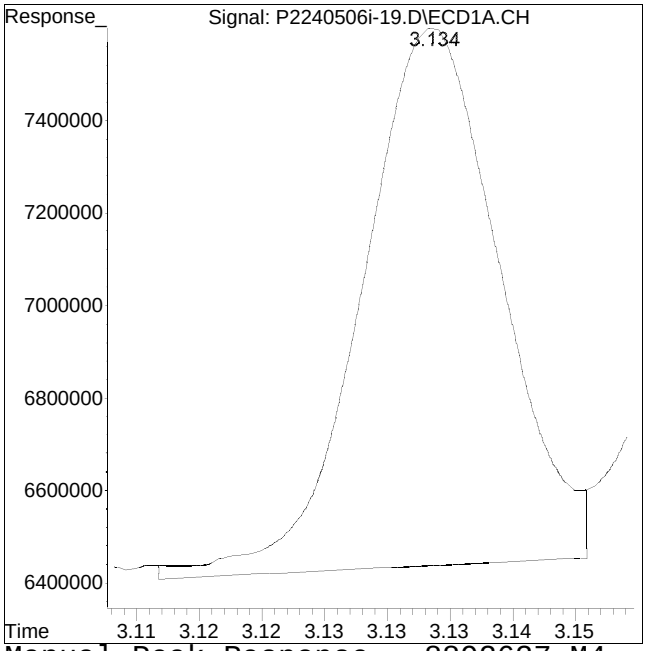
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #11: 1260-3



Original Peak Response = 13671751



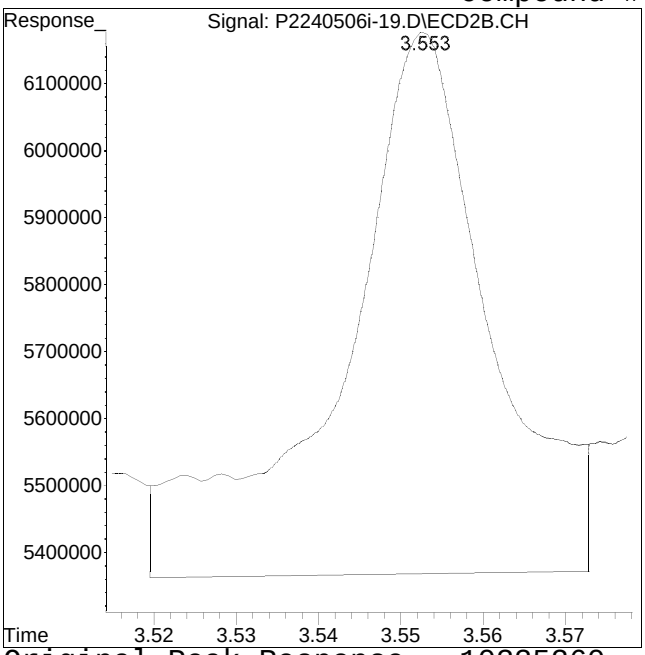
Manual Peak Response = 8892637 M4

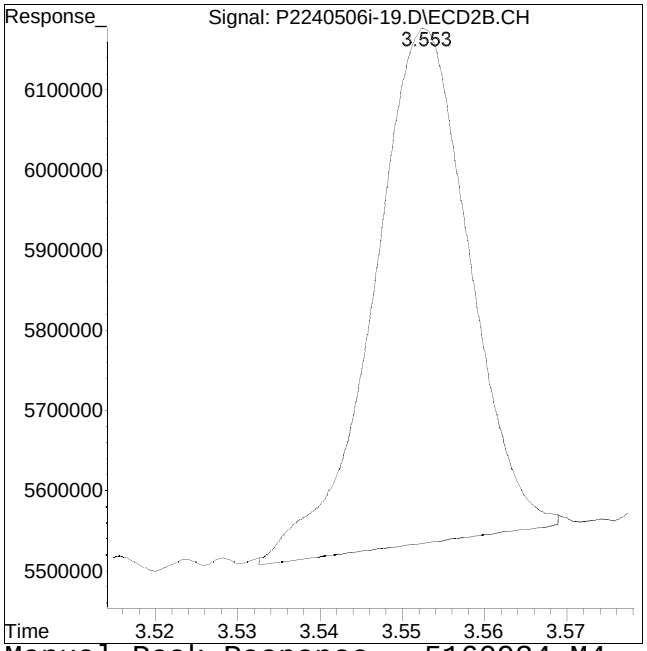
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #62: 1260-3 #2



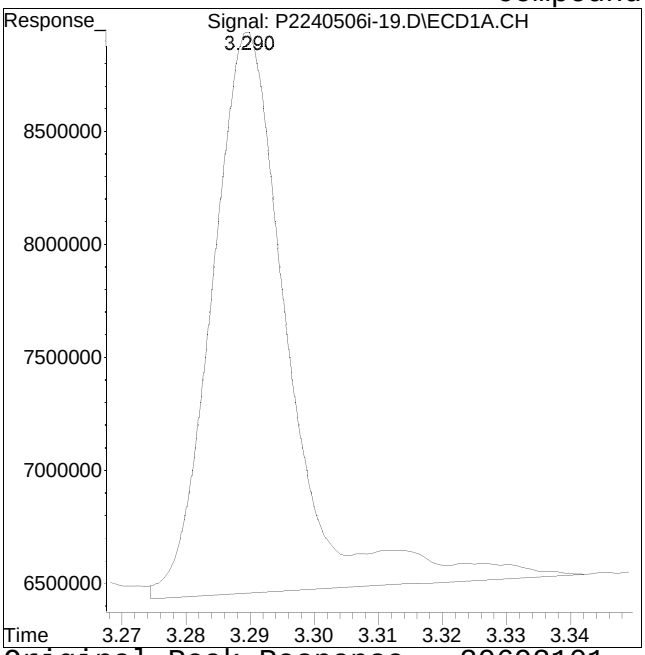


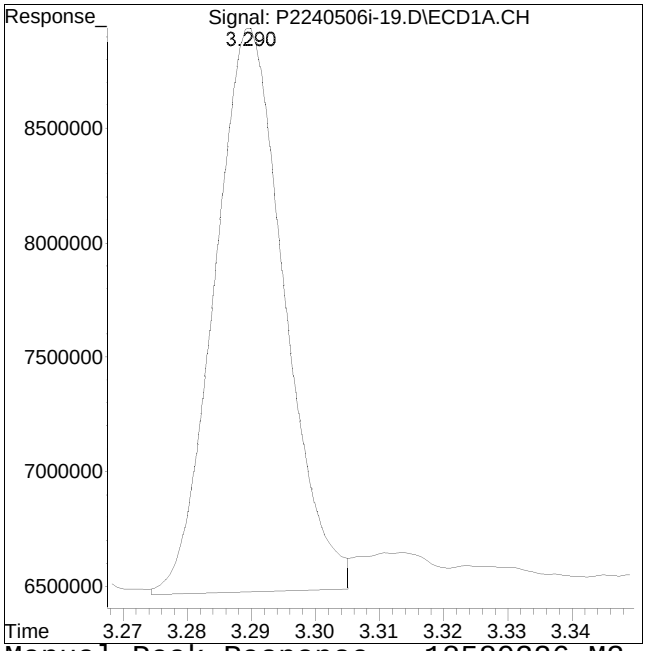
Original Peak Response = 10335260 Manual Peak Response = 5160934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #12: 1260-4



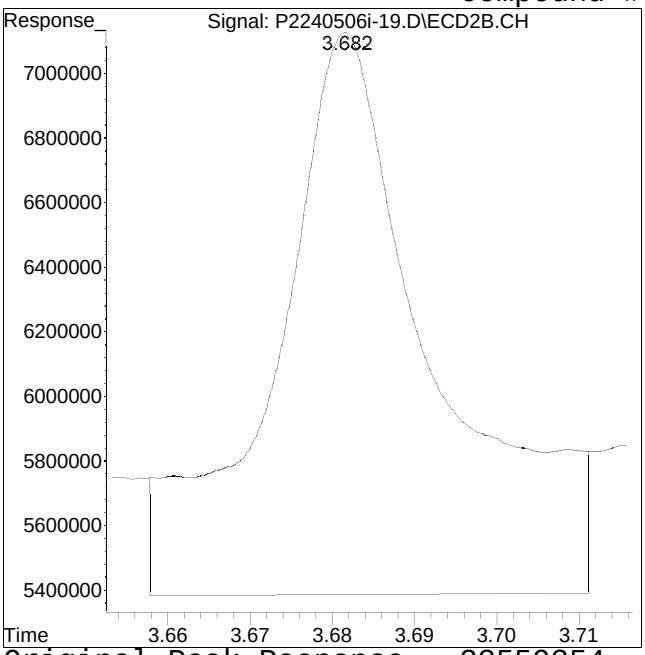


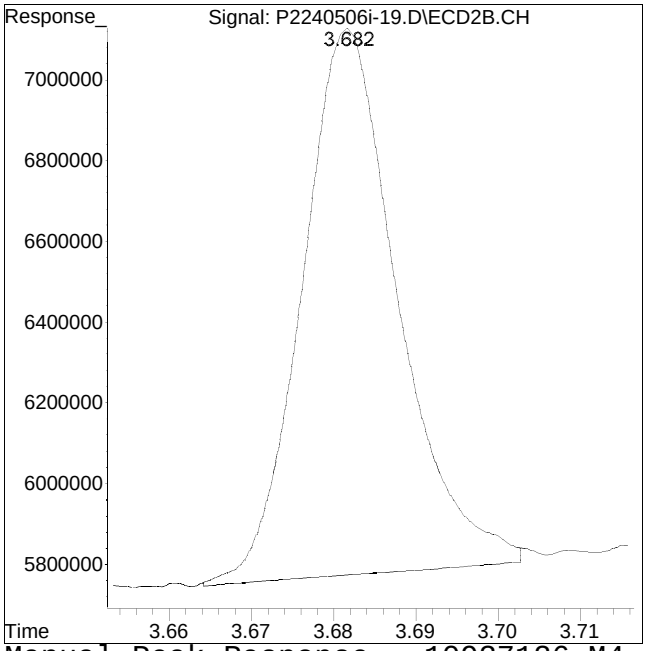
Original Peak Response = 20692101 Manual Peak Response = 18580326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #63: 1260-4 #2



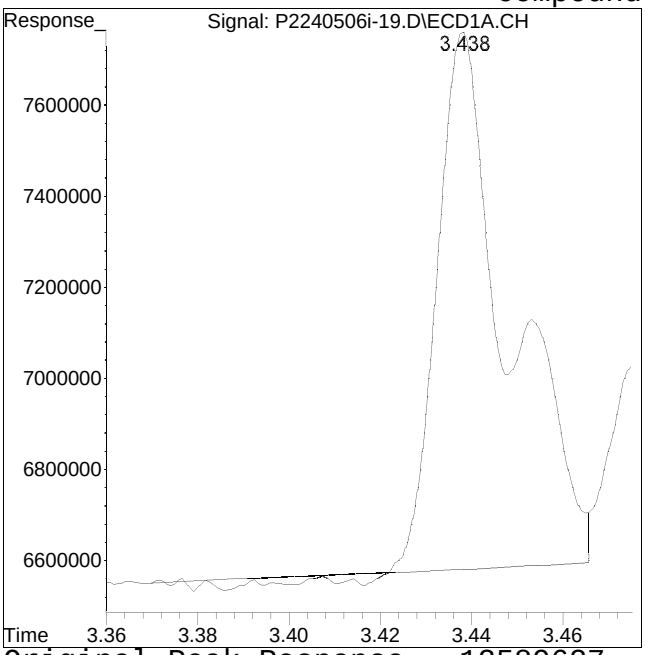


Original Peak Response = 23559354 Manual Peak Response = 10937126 M4
M4 = Poor automated baseline construction.

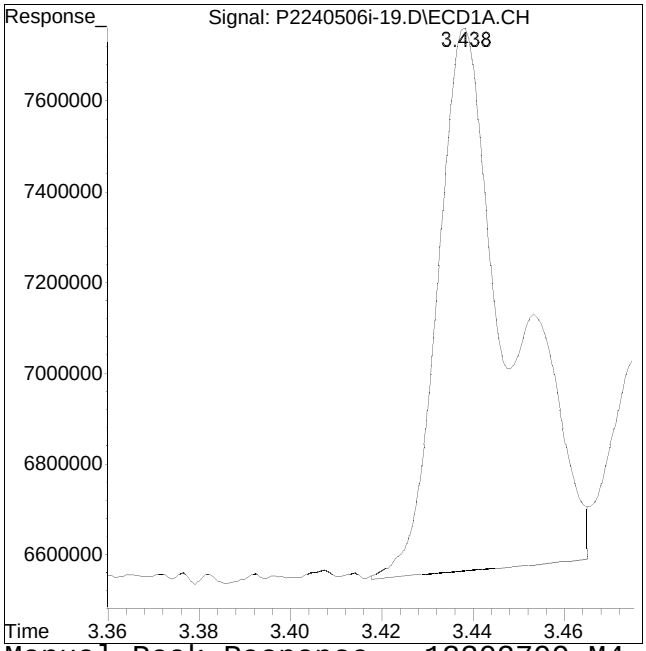
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #13: 1260-5



Original Peak Response = 12589627



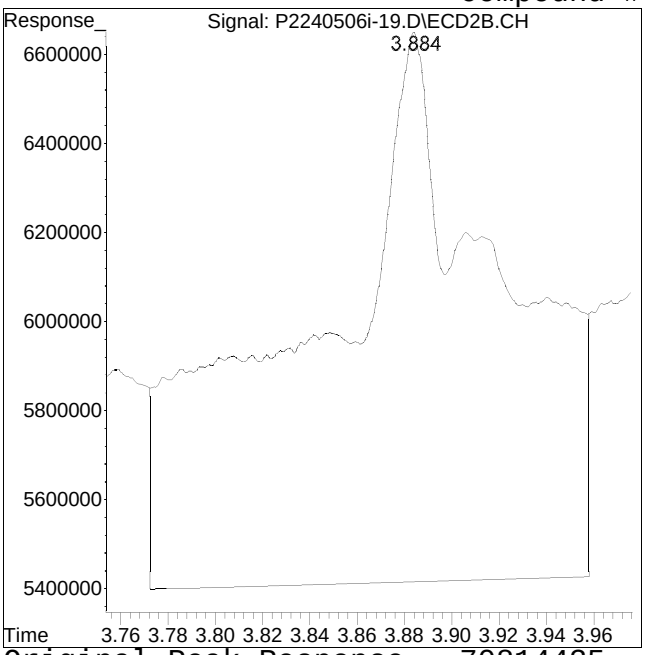
Manual Peak Response = 13302799 M4

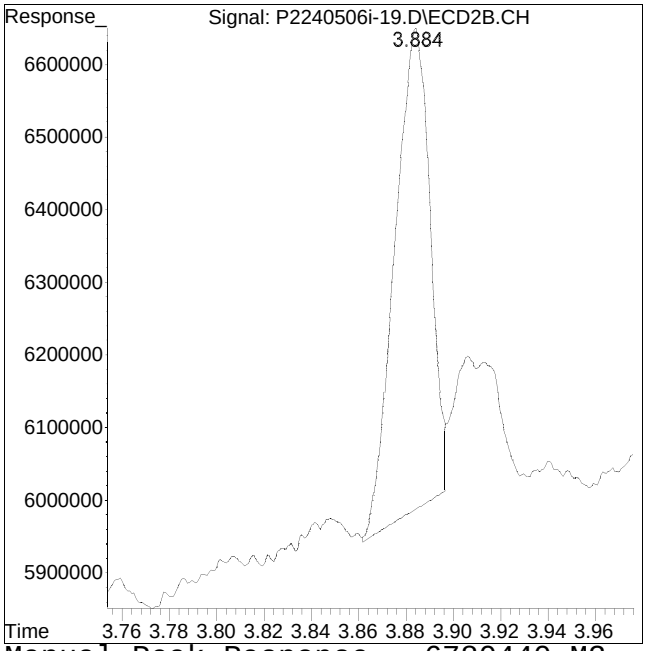
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #64: 1260-5 #2





Original Peak Response = 70814435 Manual Peak Response = 6780440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.275	2.7	77	0.00
3	s	Decachlorobiphenyl		0.847	0.950	-12.2	91	0.00
4	l1	1016-1		0.022	0.021	4.5	78	0.00
5	l1	1016-2		0.049	0.048	2.0	79	0.00
6	l1	1016-3		0.101	0.107	-5.9	84	0.00
7	l1	1016-4		0.040	0.042	-5.0	85	0.00
8	l1	1016-5		0.045	0.044	2.2	80	0.00
9	l2	1260-1		0.065	0.067	-3.1	85	0.00
10	l2	1260-2		0.097	0.101	-4.1	84	0.00
11	l2	1260-3		0.060	0.052	13.3	70	0.00
12	l2	1260-4		0.130	0.113	13.1	70	0.00
13	l2	1260-5		0.091	0.082	9.9	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	109	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	109	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.161	5.8	74	0.00
3	s	Decachlorobiphenyl		0.580	0.641	-10.5	91	0.00
4	l1	1016-1		0.021	0.020	4.8	75	0.00
5	l1	1016-2		0.046	0.046	0.0	79	0.00
6	l1	1016-3		0.092	0.088	4.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
7	l1	1016-4		0.034	0.034	0.0	77	0.00
8	l1	1016-5		0.029	0.026	10.3	71	0.00
9	l2	1260-1		0.054	0.048	11.1	78	0.00
10	l2	1260-2		0.062	0.056	9.7	77	0.00
11	l2	1260-3		0.048	0.044	8.3	74	0.00
12	l2	1260-4		0.096	0.083	13.5	70	0.00
13	l2	1260-5		0.066	0.060	9.1	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	110	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	104	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	111	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18	l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19	l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20	l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21	l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22	l4	1254-5	0.071	0.000	100.0#	0#	-3.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
14) i	2154_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
23) i	4268_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
34) i	1248_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
40) i	3262_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.602	337.4E6	224.1E6	15.558M3	15.077
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.79%	75.39%
3) s	Decachlorobi	4.021	4.534	502.9E6	247.4E6	35.890	35.352
	Spiked Amount 20.000	Range 30 - 150		Recovery =		179.45%#	176.76%#
	Target Compounds						
4) l1	1016-1	1.583	1.804	87072990	59177890	234.537M3	233.086
5) l1	1016-2	1.725	1.975	199.6E6	137.4E6	245.326M3	246.318
6) l1	1016-3	1.915	2.176	442.9E6	266.4E6	264.722M4	238.852
7) l1	1016-4	1.970	2.236	175.5E6	101.6E6	263.118M3	246.165M3
8) l1	1016-5	2.141	2.447	180.9E6	78078033	244.472M4	223.279M4
Sum	1016-1			1086.0E6	642.6E6	1252.176	1187.700
Average	1016-1					250.435	237.540
9) l2	1260-1	2.686	3.058	275.6E6	143.8E6	258.098	220.798M4
10) l2	1260-2	2.816	3.159	415.7E6	168.9E6	258.251M3	226.712M4
11) l2	1260-3	3.132	3.553	213.9E6	132.2E6	213.888M4	228.710

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.288	3.682	465.4E6	249.7E6	217.191M3	214.943
13) l2	1260-5	3.436	3.885	339.8E6	181.9E6	226.233M4	228.376
Sum	1260-1			1710.4E6	876.4E6	1173.661	1119.539
Average	1260-1					234.732	223.908
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

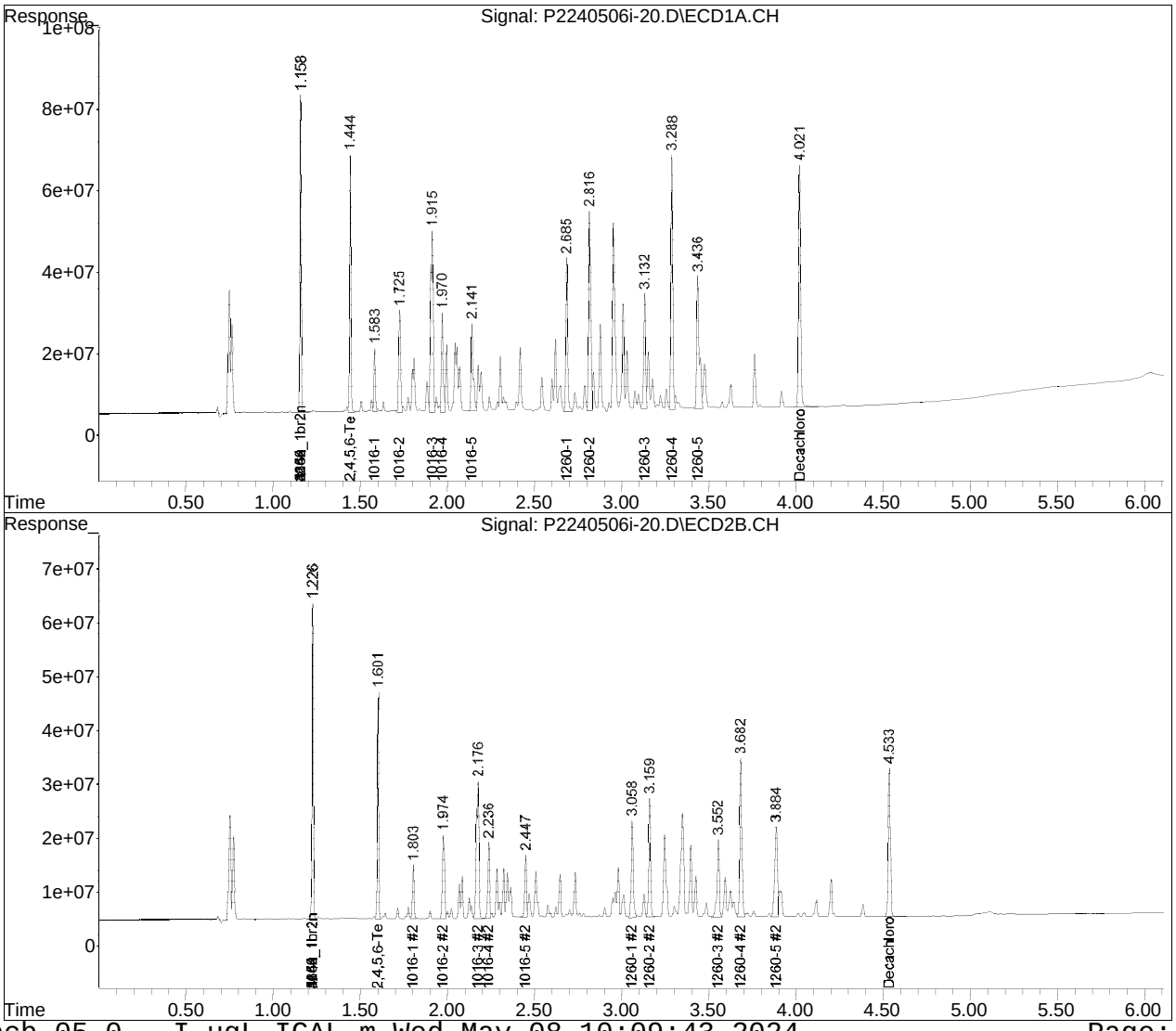
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

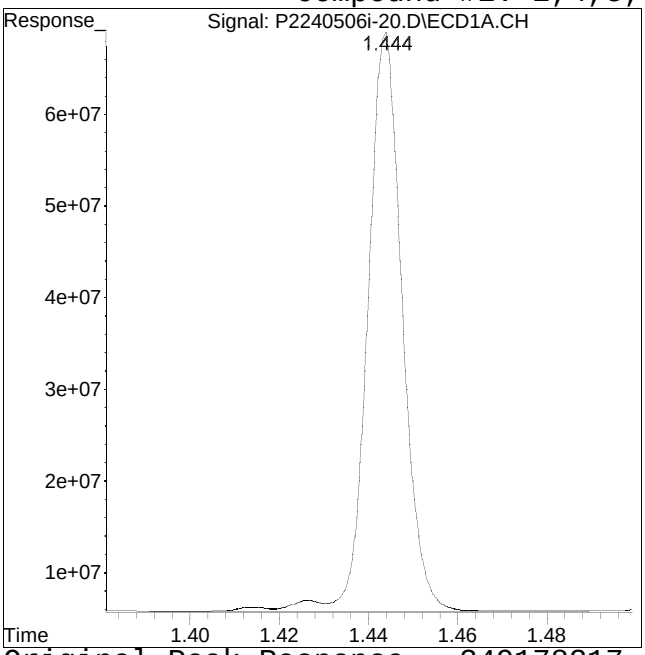
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

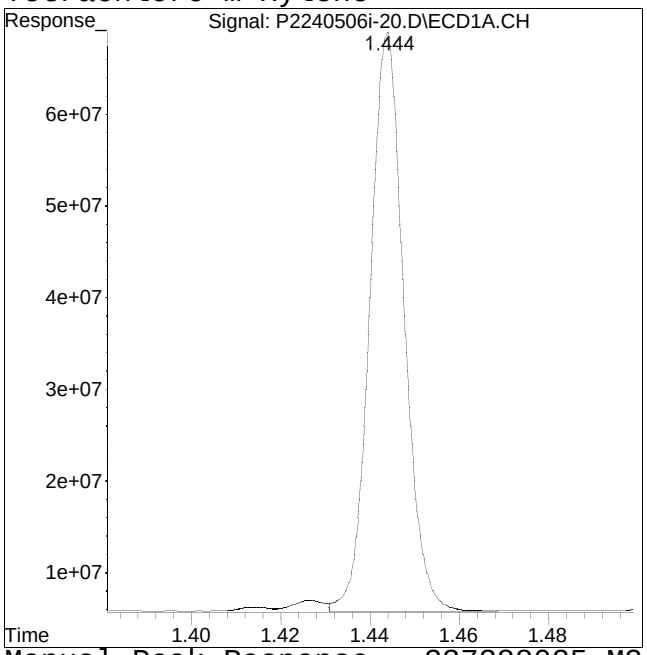


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



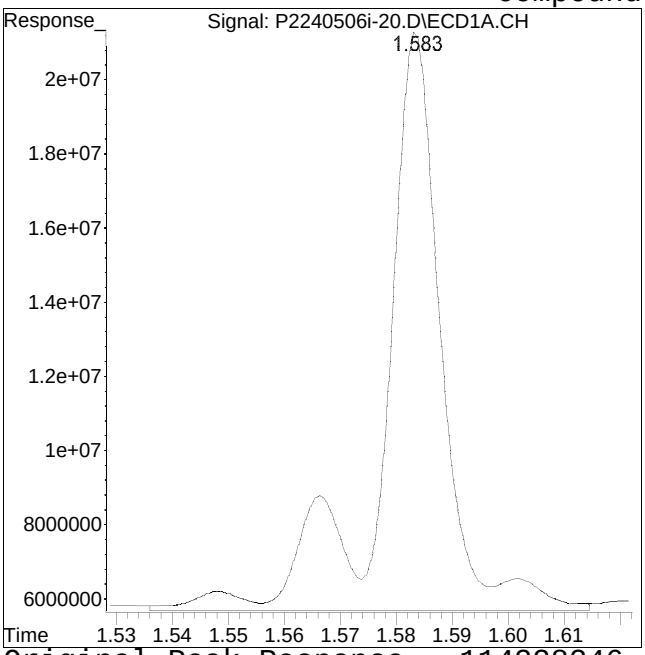


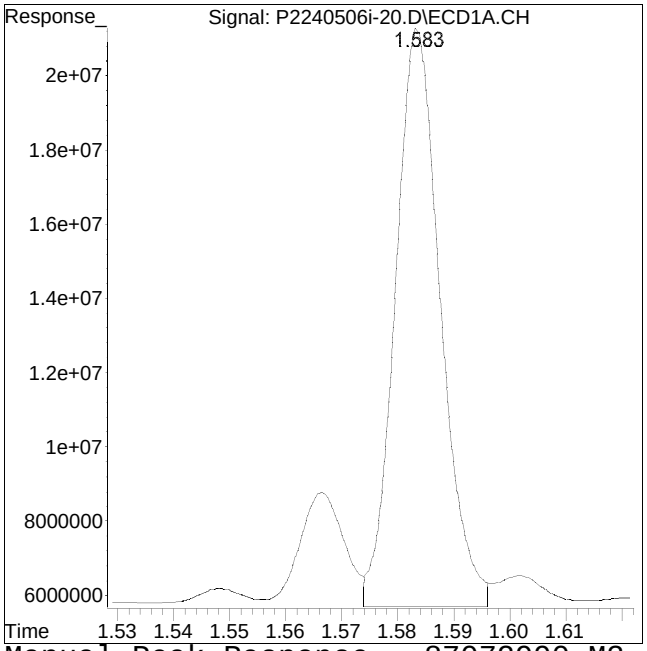
Original Peak Response = 349178317 Manual Peak Response = 337388025 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #4: 1016-1



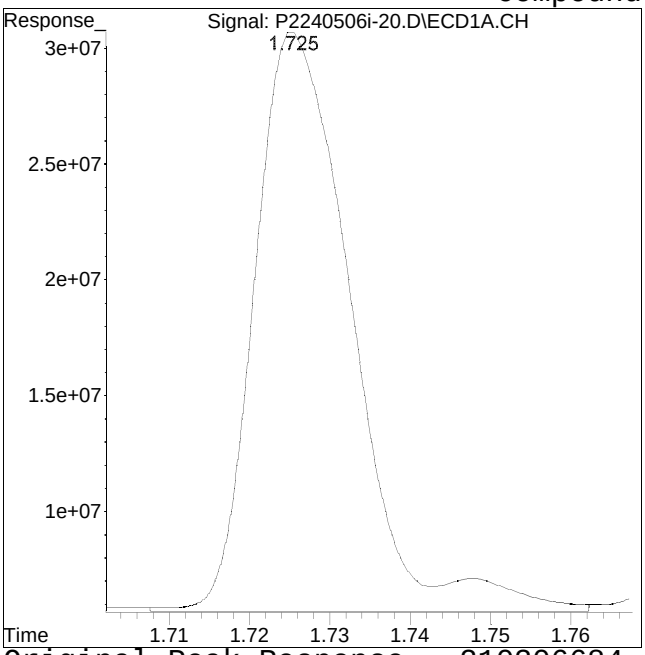


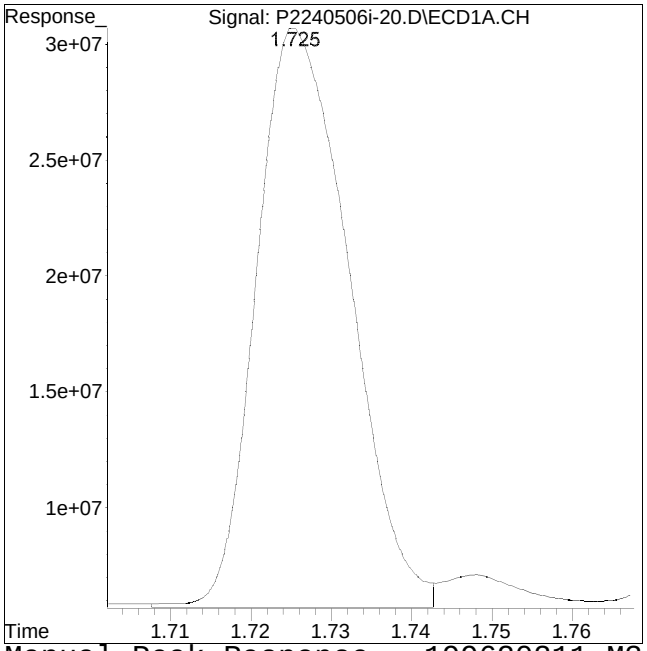
Original Peak Response = 114228246 Manual Peak Response = 87072990 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #5: 1016-2



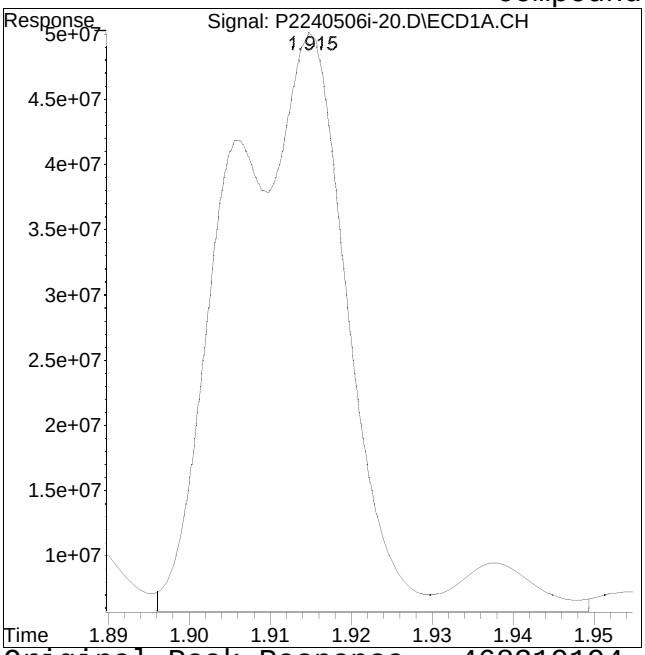


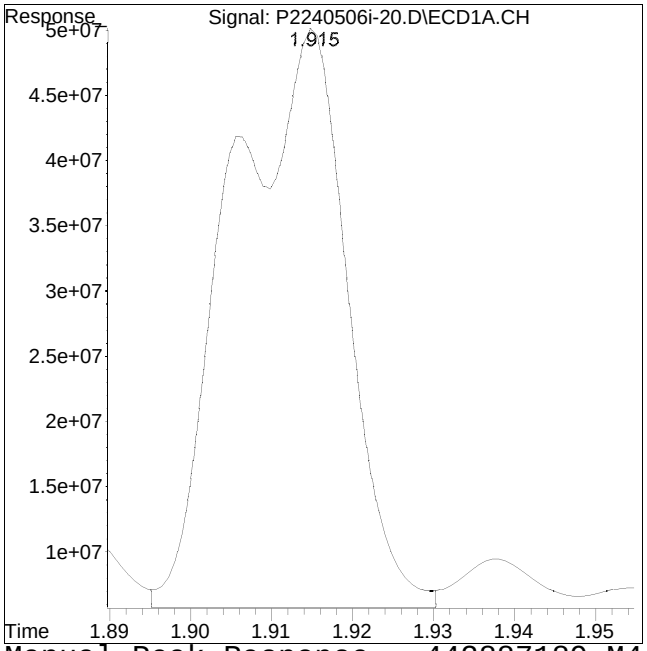
Original Peak Response = 210306684 Manual Peak Response = 199620211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #6: 1016-3



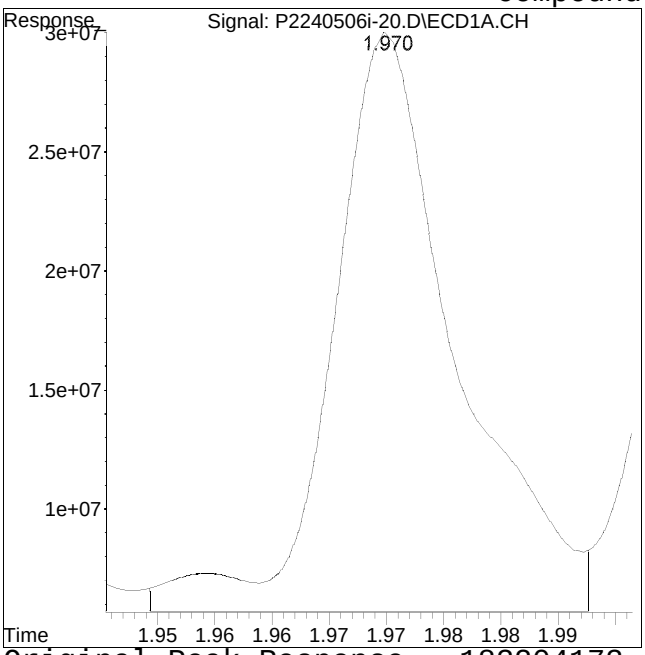


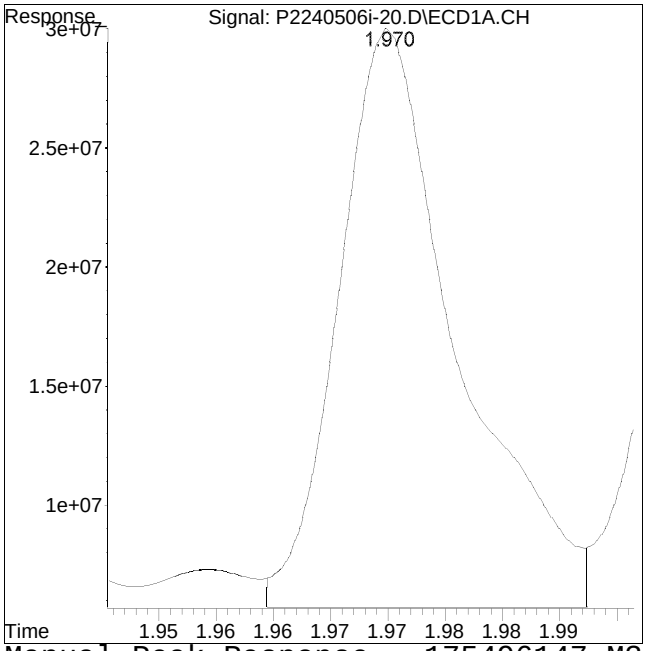
Original Peak Response = 468319194 Manual Peak Response = 442887189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #7: 1016-4



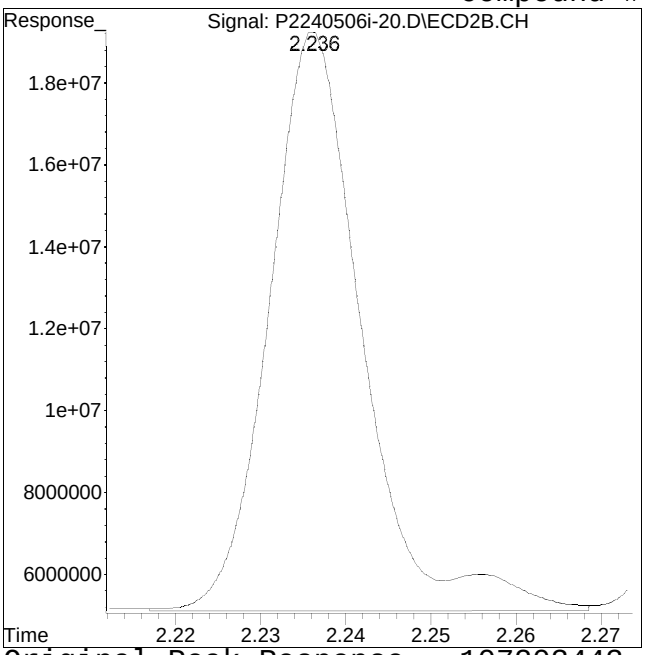


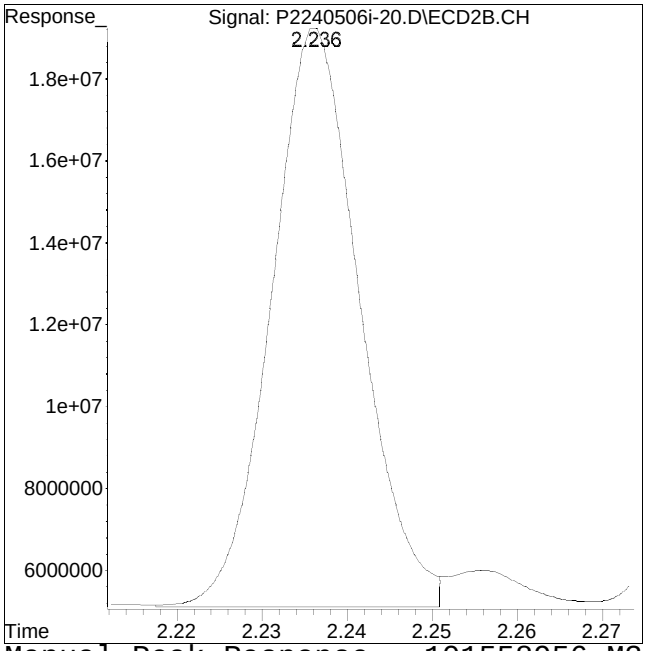
Original Peak Response = 183204173 Manual Peak Response = 175496147 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #58: 1016-4 #2



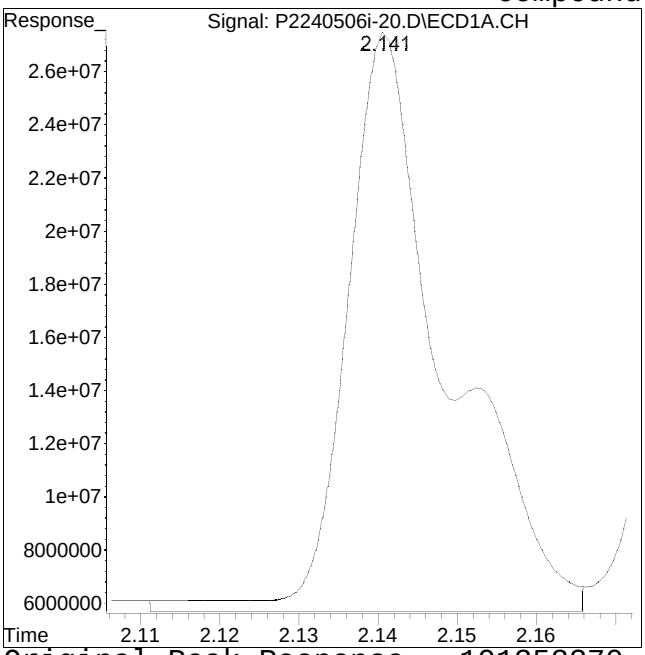


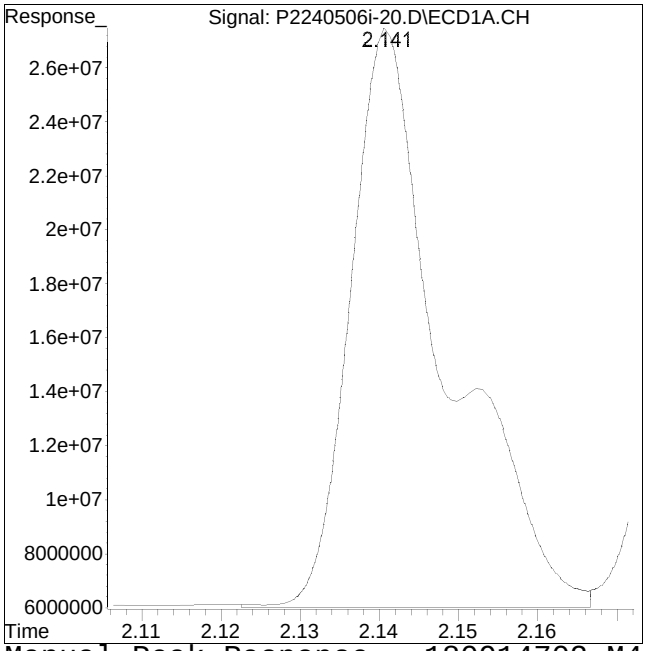
Original Peak Response = 107203443 Manual Peak Response = 101558956 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #8: 1016-5



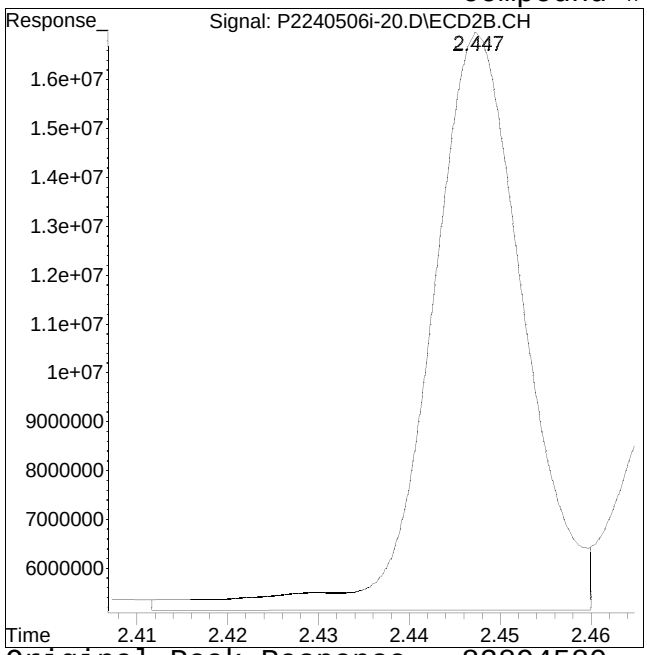


Original Peak Response = 191352370 Manual Peak Response = 180914702 M4
M4 = Poor automated baseline construction.

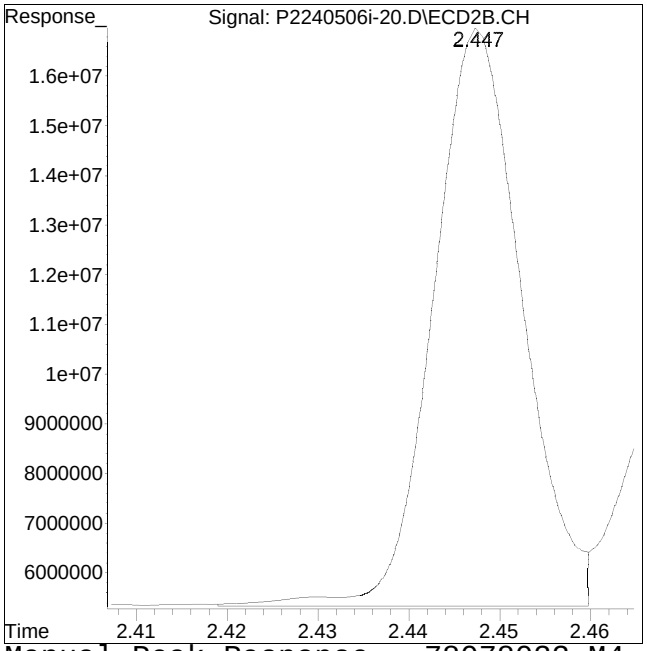
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #59: 1016-5 #2



Original Peak Response = 83894580



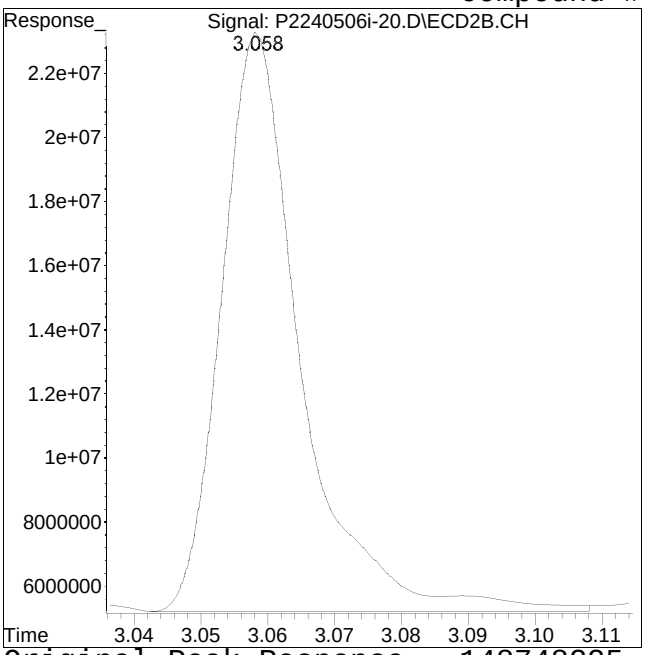
Manual Peak Response = 78078033 M4

M4 = Poor automated baseline construction.

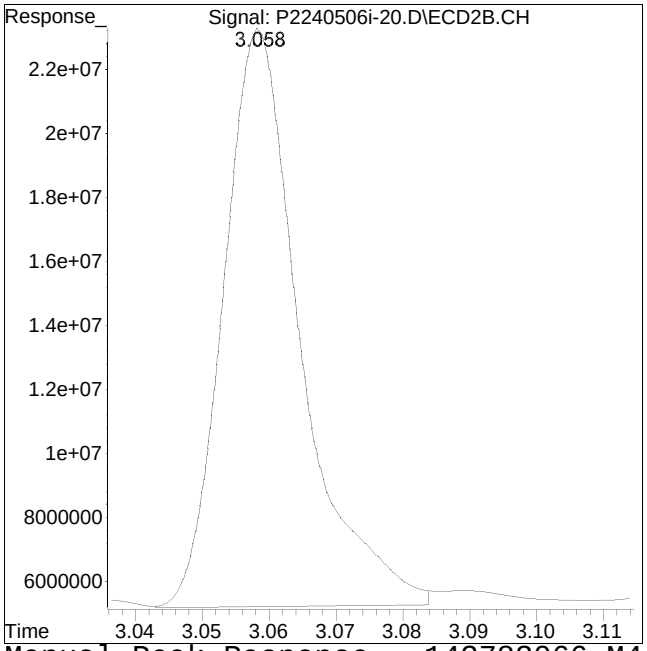
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #60: 1260-1 #2



Original Peak Response = 148748225



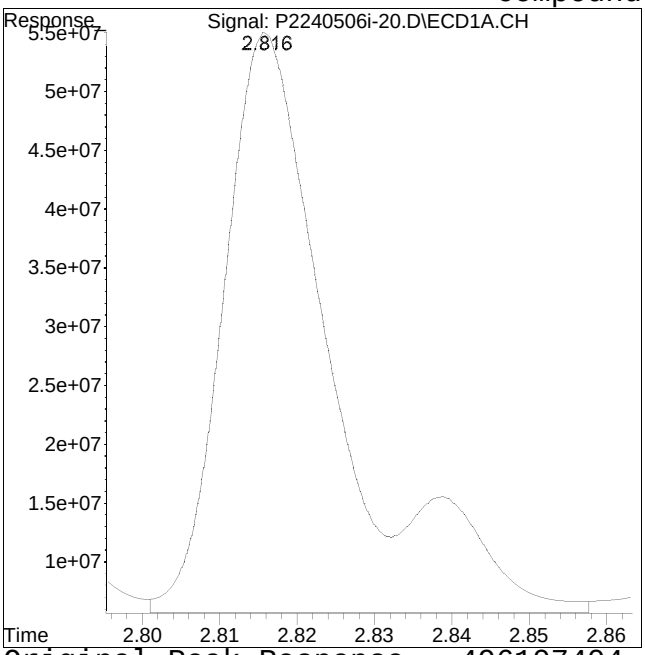
Manual Peak Response = 143783066 M4

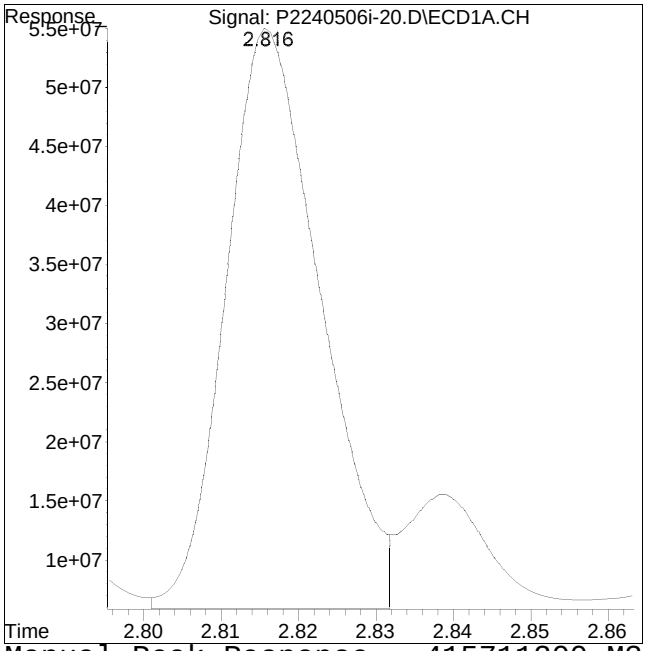
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #10: 1260-2



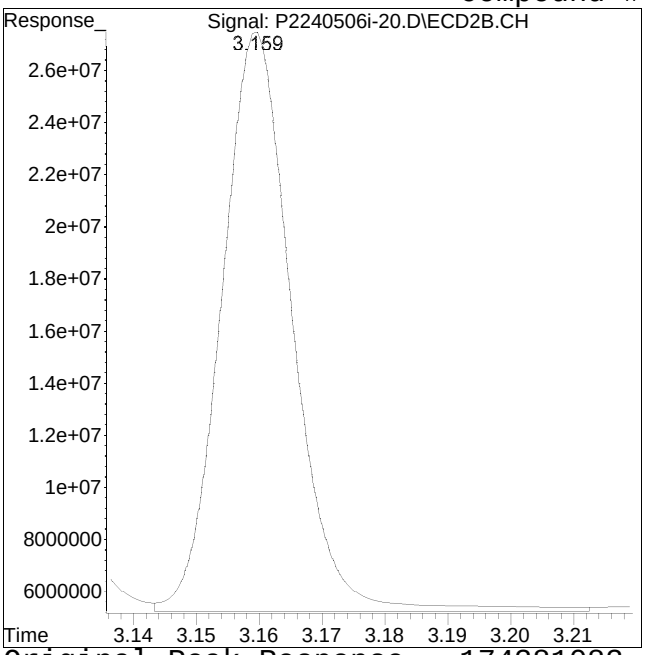


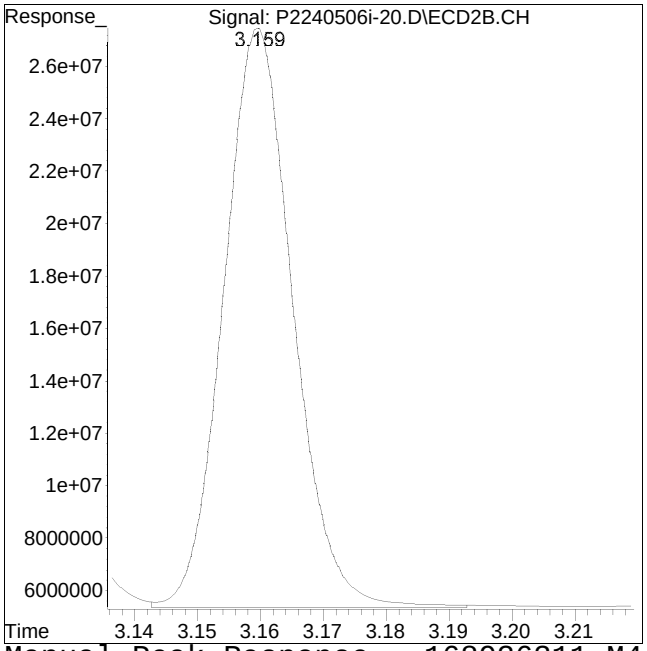
Original Peak Response = 496107404 Manual Peak Response = 415711200 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #61: 1260-2 #2



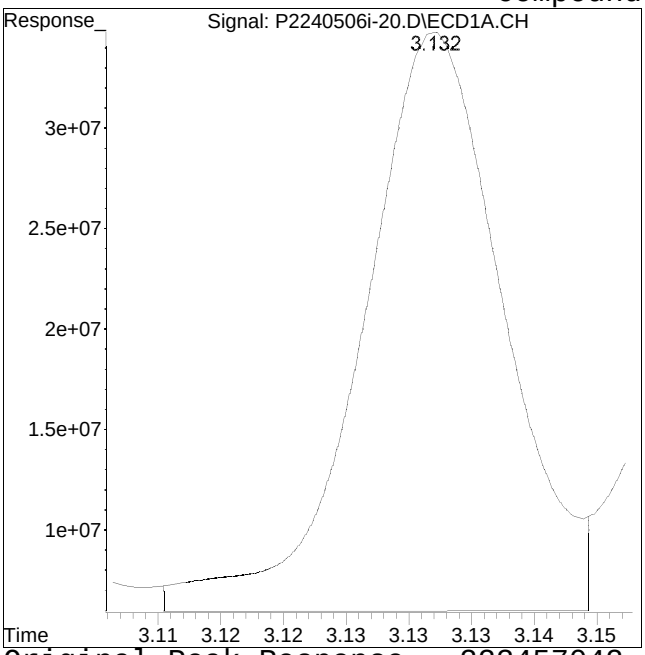


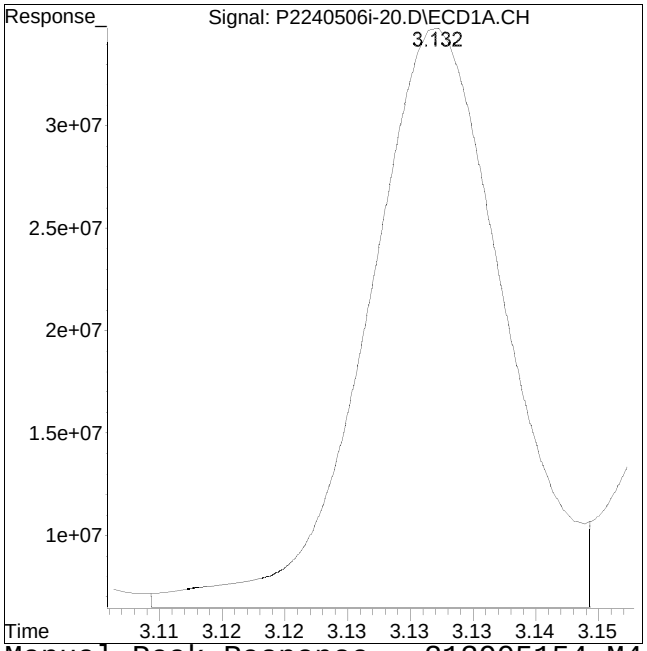
Original Peak Response = 174381083 Manual Peak Response = 168936311 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #11: 1260-3



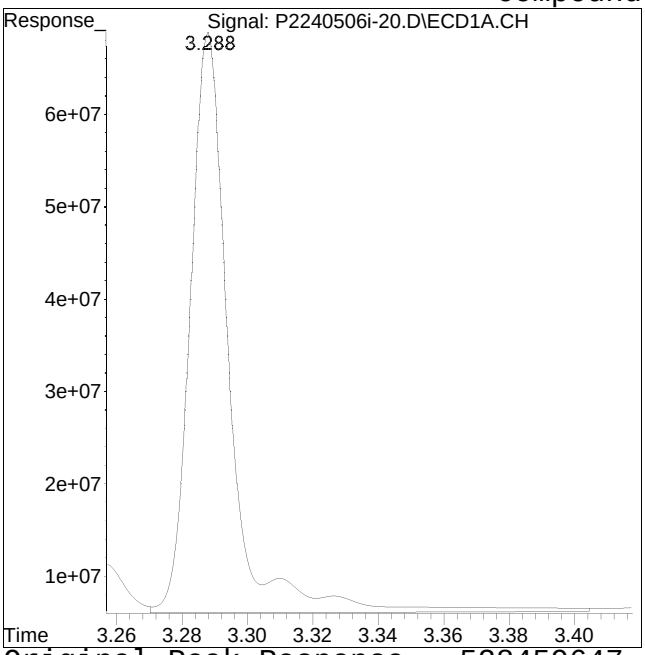


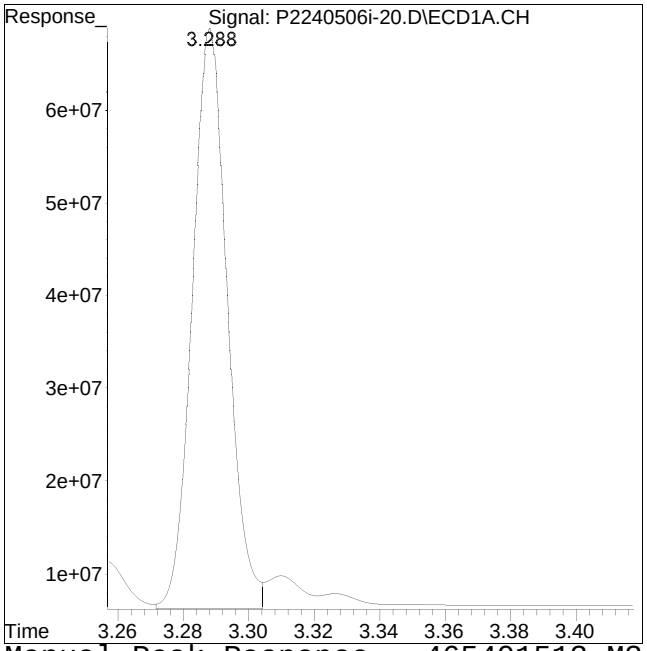
Original Peak Response = 223457042 Manual Peak Response = 213905154 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #12: 1260-4



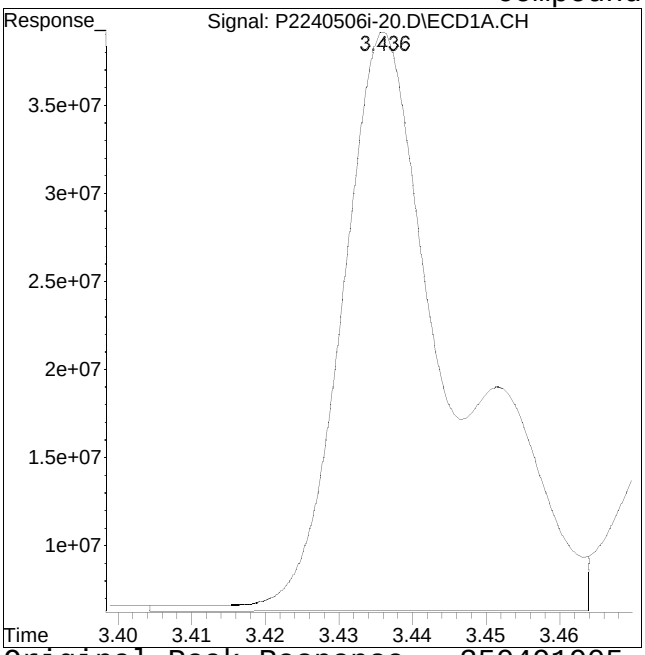


Original Peak Response = 528459647 Manual Peak Response = 465401513 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

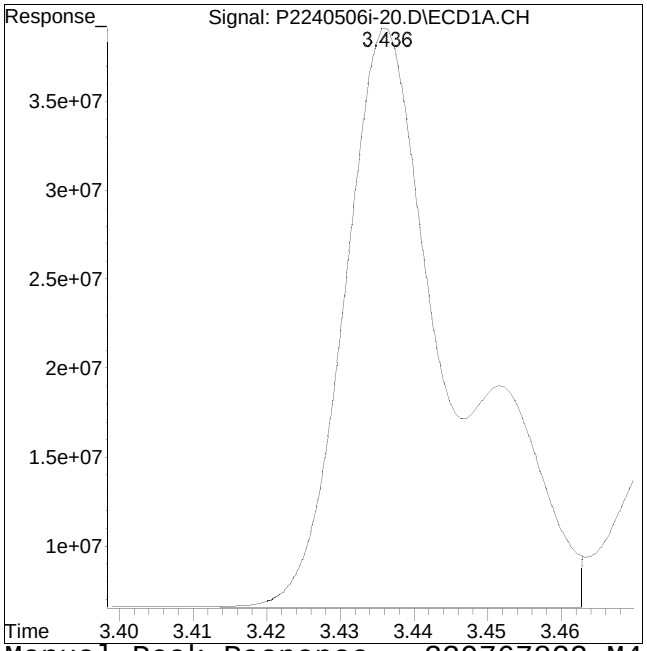
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #13: 1260-5



Original Peak Response = 350491905



Manual Peak Response = 339767822 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 06/20/24 06:10		
Lab File ID	: P2240620a-04	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1936878-1	**Init. Calib. Times**	: 20:49	15:31	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	73	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.631	-	-24.4*	20	72	0
Decachlorobiphenyl	0.847	0.819	-	3.3	20	58	-.01
1016-1	0.022	0.025	-	-13.6	20	67	0
1016-2	0.049	0.054	-	-10.2	20	65	0
1016-3	0.101	0.115	-	-13.9	20	66	0
1016-4	0.04	0.045	-	-12.5	20	67	0
1016-5	0.045	0.046	-	-2.2	20	63	0
1260-1	0.065	0.061	-	6.2	20	57	0
1260-2	0.097	0.093	-	4.1	20	57	0
1260-3	0.06	0.053	-	11.7	20	53	0
1260-4	0.13	0.115	-	11.5	20	53	-.01
1260-5	0.091	0.076	-	16.5	20	50	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 06/20/24 06:10		
Lab File ID	: P2240620a-04	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1936878-1	**Init. Calib. Times**	: 20:49	15:31	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	73	0
2,4,5,6-Tetrachloro-m-xylen	1.232	1.447	-	-17.5	20	68	0
Decachlorobiphenyl #2	0.58	0.769	-	-32.6*	20	81	-.01
1016-1 #2	0.021	0.024	-	-14.3	20	68	0
1016-2 #2	0.046	0.053	-	-15.2	20	68	0
1016-3 #2	0.092	0.104	-	-13	20	67	0
1016-4 #2	0.034	0.04	-	-17.6	20	68	0
1016-5 #2	0.029	0.034	-	-17.2	20	70	0
1260-1 #2	0.054	0.052	-	3.7	20	63	-.01
1260-2 #2	0.062	0.068	-	-9.7	20	69	-.01
1260-3 #2	0.048	0.054	-	-12.5	20	69	-.01
1260-4 #2	0.096	0.109	-	-13.5	20	68	-.01
1260-5 #2	0.066	0.074	-	-12.1	20	67	-.01

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:10
Operator : pest2:akm
Sample   : wg1936878-1,42,, +1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc   : wg1936878,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 06:18:58 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	73	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.631	-24.4#	72	0.00
3	s	Decachlorobiphenyl		0.847	0.819	3.3	58	-0.01
4	l1	1016-1		0.022	0.025	-13.6	67	0.00
5	l1	1016-2		0.049	0.054	-10.2	65	0.00
6	l1	1016-3		0.101	0.115	-13.9	66	0.00
7	l1	1016-4		0.040	0.045	-12.5	67	0.00
8	l1	1016-5		0.045	0.046	-2.2	63	0.00
9	l2	1260-1		0.065	0.061	6.2	57	0.00
10	l2	1260-2		0.097	0.093	4.1	57	0.00
11	l2	1260-3		0.060	0.053	11.7	53	0.00
12	l2	1260-4		0.130	0.115	11.5	53	-0.01
13	l2	1260-5		0.091	0.076	16.5	50	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	73	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.232	1.447	-17.5	68	0.00
54	s	Decachlorobiphenyl #2		0.580	0.769	-32.6#	81	-0.01
55	l1	1016-1 #2		0.021	0.024	-14.3	68	0.00
56	l1	1016-2 #2		0.046	0.053	-15.2	68	0.00
57	l1	1016-3 #2		0.092	0.104	-13.0	67	0.00
58	l1	1016-4 #2		0.034	0.040	-17.6	68	0.00
59	l1	1016-5 #2		0.029	0.034	-17.2	70	0.00
60	l2	1260-1 #2		0.054	0.052	3.7	63	-0.01
61	l2	1260-2 #2		0.062	0.068	-9.7	69	-0.01
62	l2	1260-3 #2		0.048	0.054	-12.5	69	-0.01
63	l2	1260-4 #2		0.096	0.109	-13.5	68	-0.01
64	l2	1260-5 #2		0.066	0.074	-12.1	67	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:10
Operator : pest2:akm
Sample   : wg1936878-1,42,, +1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc   : wg1936878,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 06:18:58 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:10
Operator : pest2:akm
Sample : wg1936878-1,42,, +1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc : wg1936878,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 06:18:58 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.228	305.5E6	224.4E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.443	1.600	318.9E6	207.9E6	19.914	18.803
	Spiked Amount	20.000	Range 30 - 150		Recovery =	99.57%	94.02%
3) s	Decachlorobi	4.011	4.521	320.2E6	221.0E6	30.939	42.433
	Spiked Amount	20.000	Range 30 - 150		Recovery =	154.69%#	212.16%#
	Target Compounds						
4) l1	1016-1	1.581	1.800	75241090	53730938	274.406M4	284.444
5) l1	1016-2	1.722	1.970	163.7E6	119.3E6	272.453M1	287.448M4
6) l1	1016-3	1.910	2.171	350.3E6	233.5E6	283.538M4	281.304M4
7) l1	1016-4	1.965	2.230	138.2E6	89807176	280.491M3	292.574M3
8) l1	1016-5	2.135	2.440	141.9E6	76797643	259.659M4	295.177M4
	Sum 1016-1			869.4E6	573.1E6	1370.548	1440.948
	Average 1016-1					274.110	288.190
9) l2	1260-1	2.678	3.049	185.0E6	116.6E6	234.502M4	240.749M4
10) l2	1260-2	2.808	3.150	282.8E6	152.9E6	237.868M4	275.731M4
11) l2	1260-3	3.123	3.542	161.6E6	122.1E6	218.789M4	283.918M4
12) l2	1260-4	3.279	3.671	350.6E6	244.6E6	221.527M4	283.001M4
13) l2	1260-5	3.427	3.873	233.7E6	166.5E6	210.664M1	281.010M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:10
Operator : pest2:akm
Sample : wg1936878-1,42,, +1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc : wg1936878,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 06:18:58 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1260-1			1213.6E6	802.6E6	1123.350	1364.409
Average 1260-1					224.670	272.882
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:10
Operator : pest2:akm
Sample : wg1936878-1,42,, +1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc : wg1936878,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 06:18:58 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

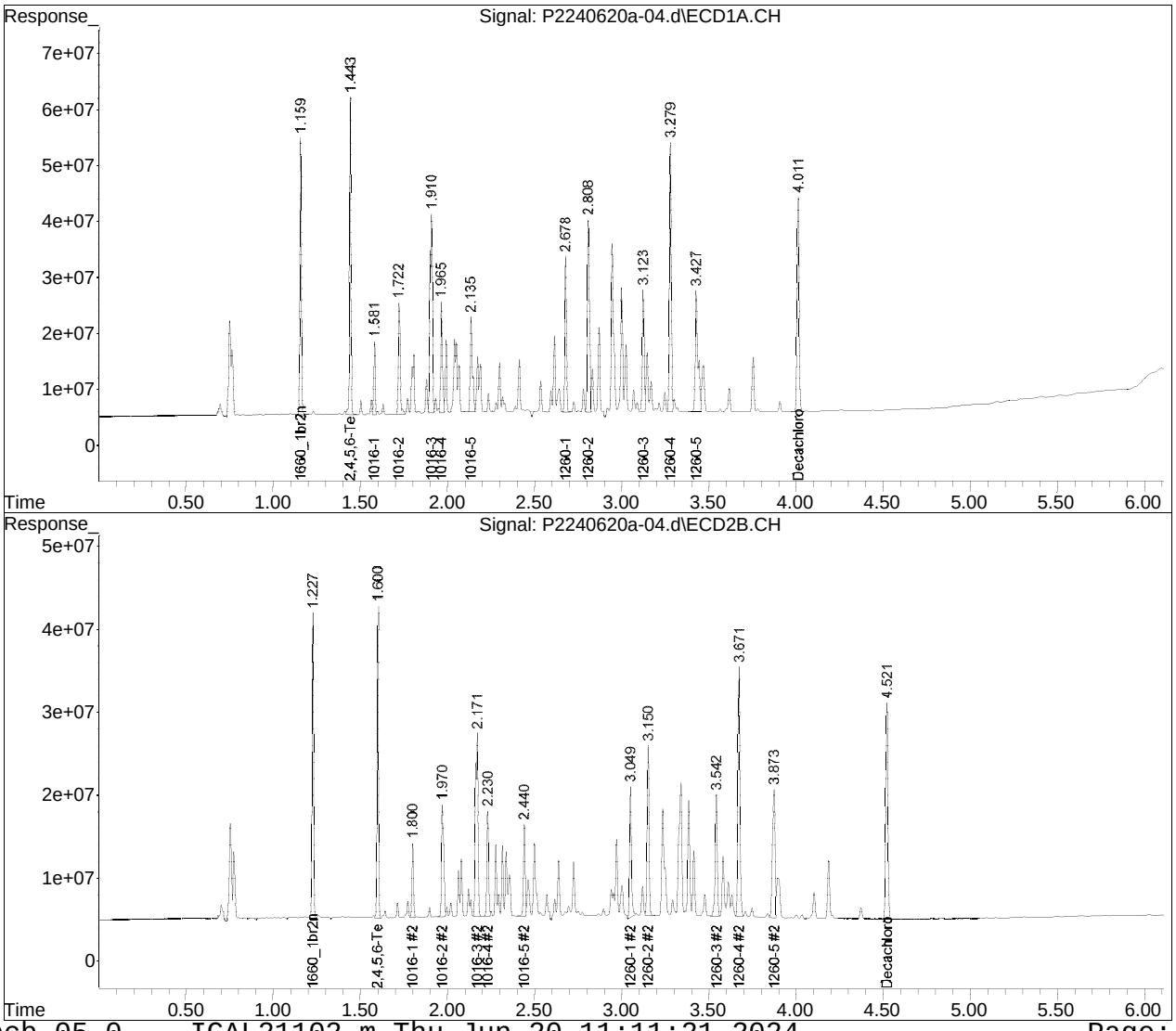
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:10
Operator : pest2:akm
Sample : wg1936878-1,42,, +1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi
Misc : wg1936878,,ical21102
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 06:18:58 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

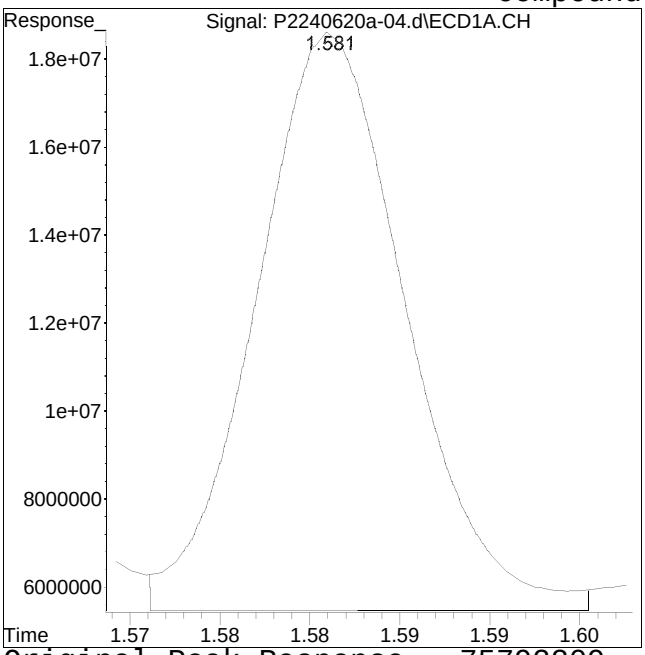
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

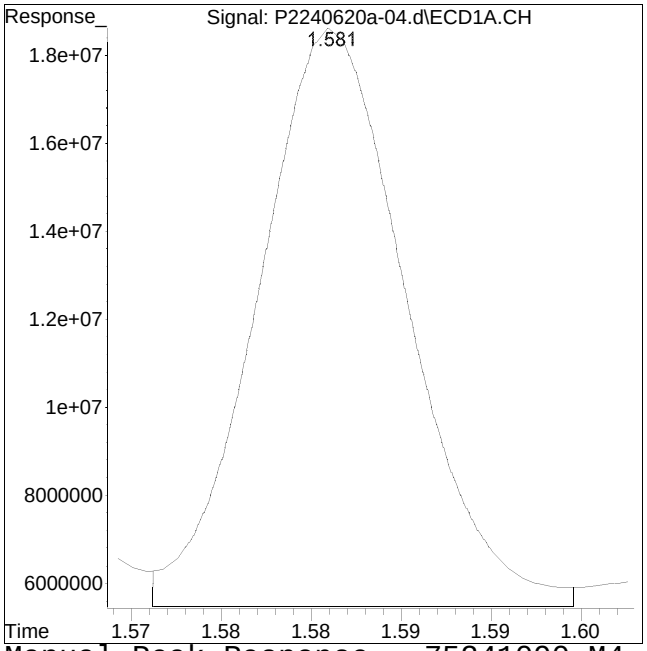


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #4: 1016-1



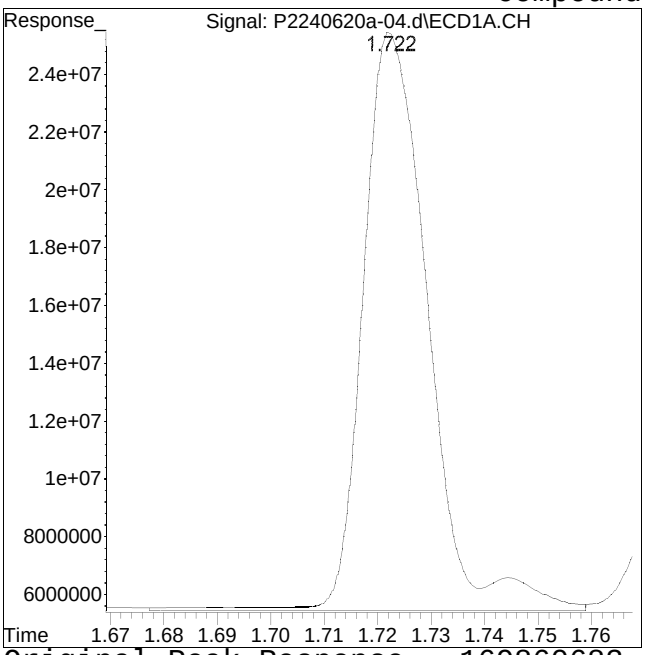


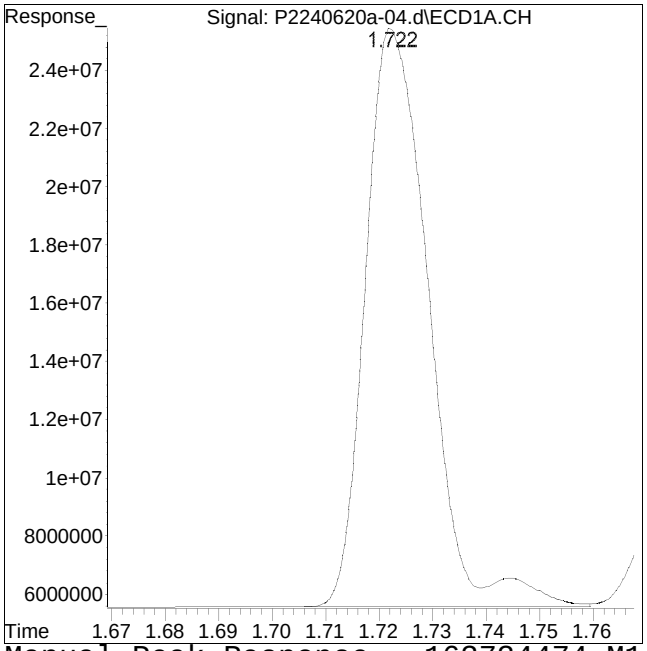
Original Peak Response = 75792209 Manual Peak Response = 75241090 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #5: 1016-2



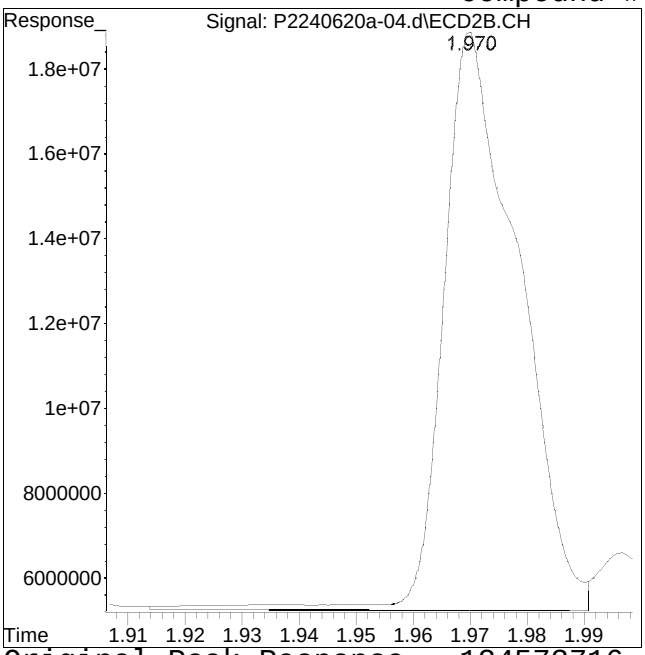


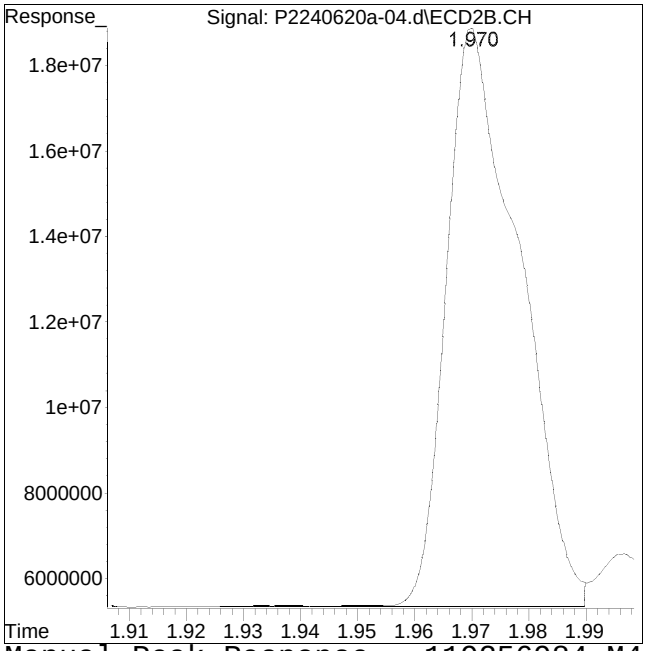
Original Peak Response = 169860683 Manual Peak Response = 163734474 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #56: 1016-2 #2



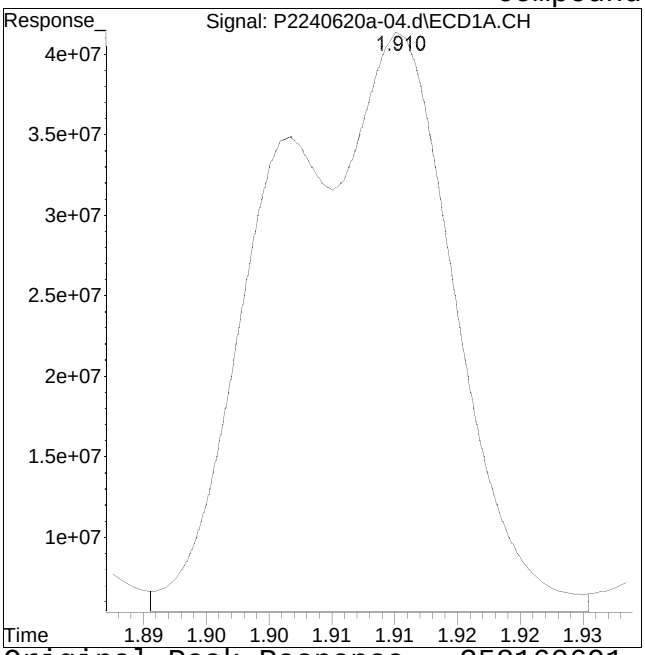


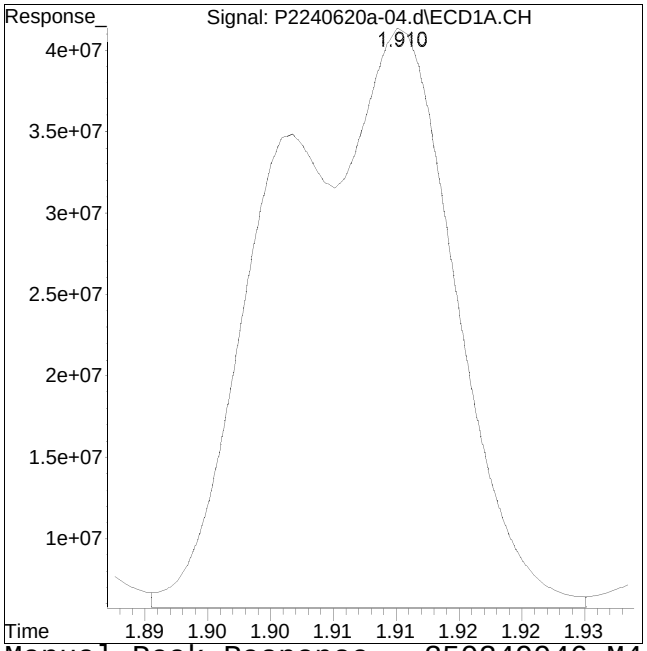
Original Peak Response = 124573716 Manual Peak Response = 119256984 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #6: 1016-3



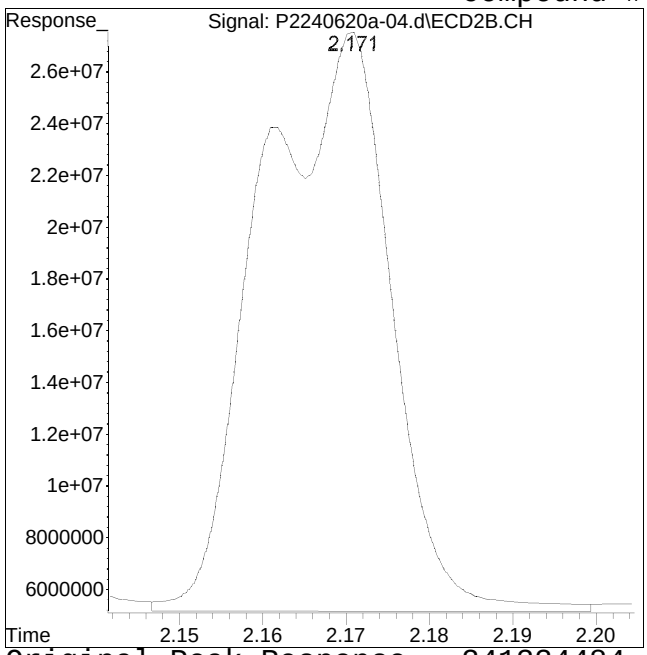


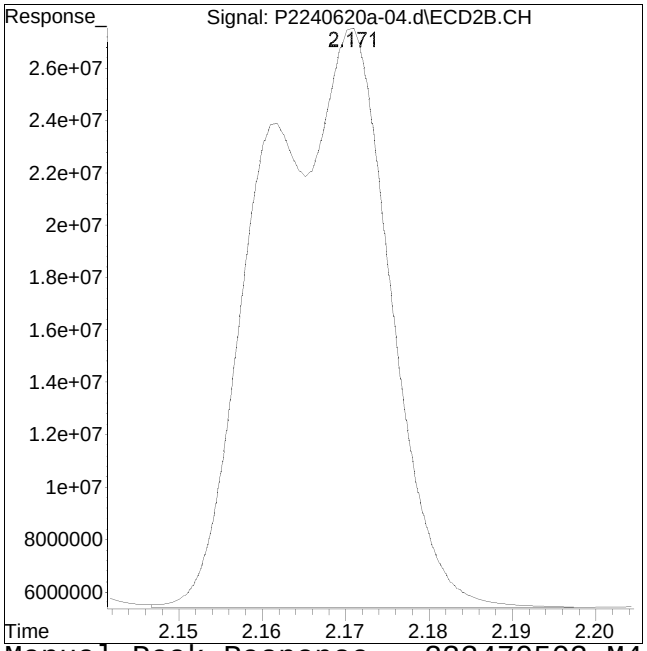
Original Peak Response = 358160691 Manual Peak Response = 350349946 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #57: 1016-3 #2



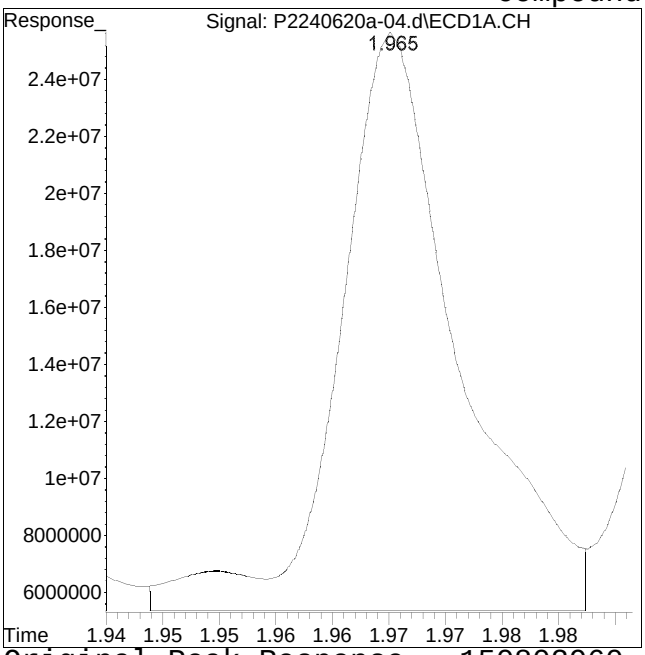


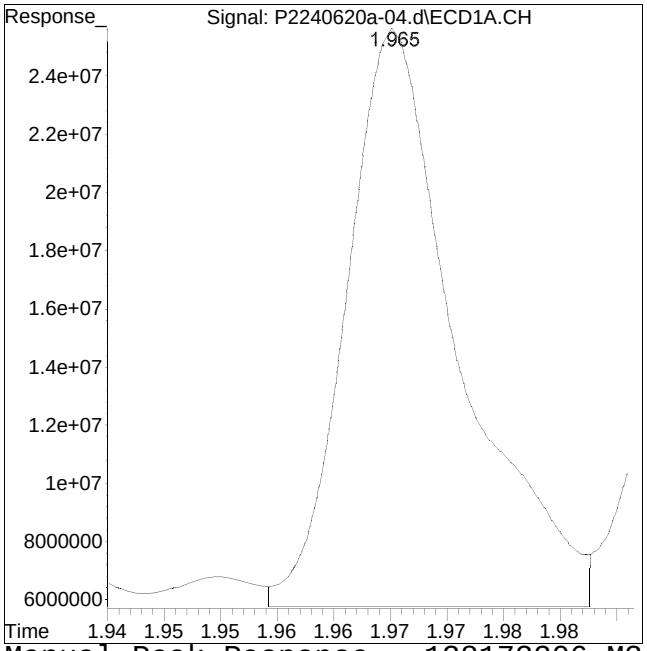
Original Peak Response = 241334484 Manual Peak Response = 233470503 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #7: 1016-4



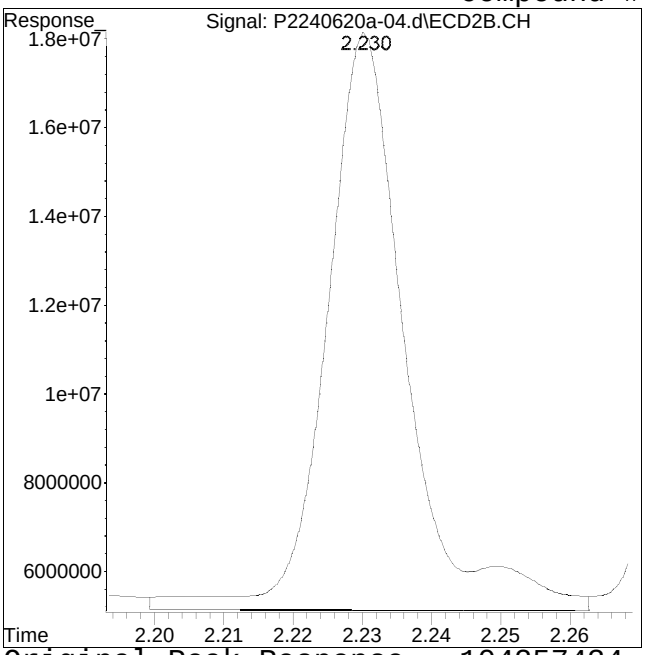


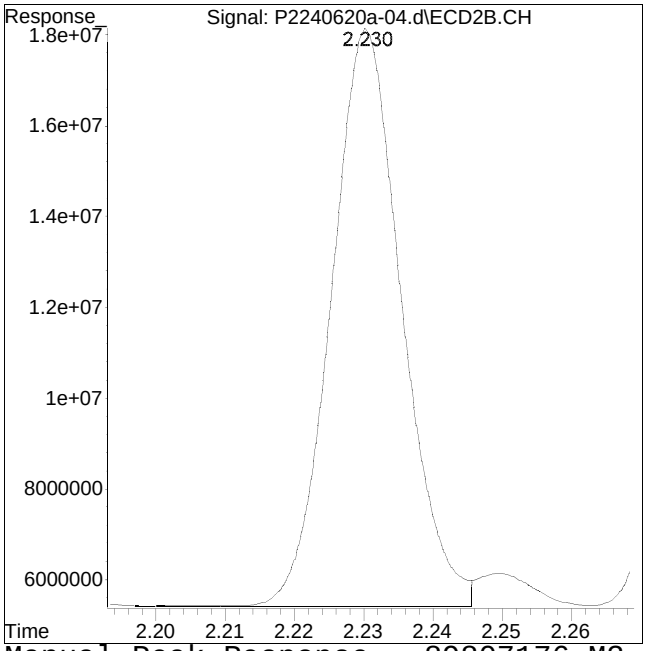
Original Peak Response = 150802960 Manual Peak Response = 138173206 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #58: 1016-4 #2



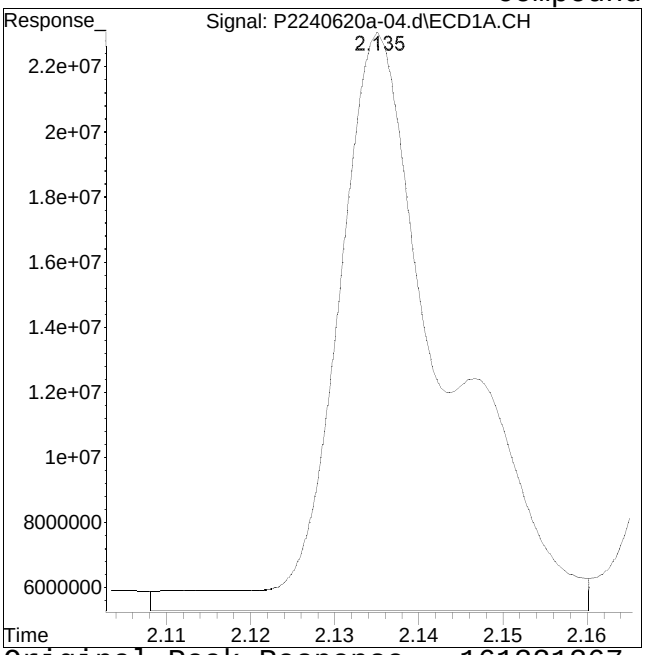


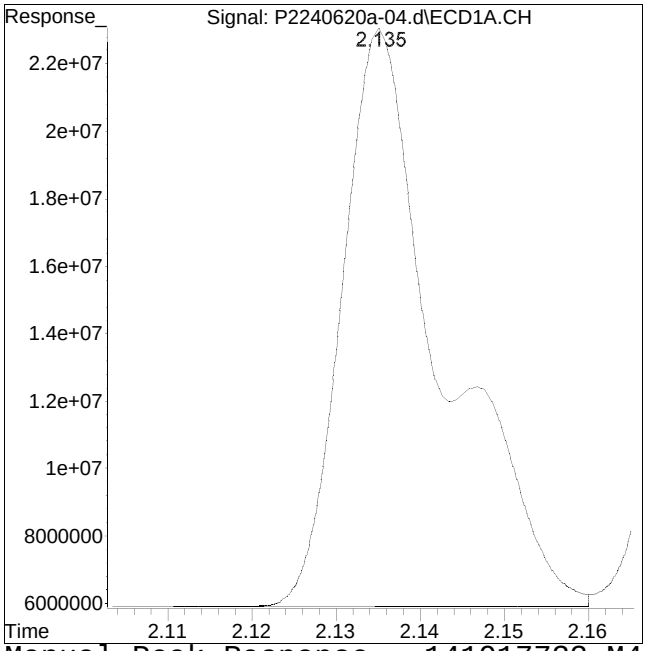
Original Peak Response = 104257434 Manual Peak Response = 89807176 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #8: 1016-5



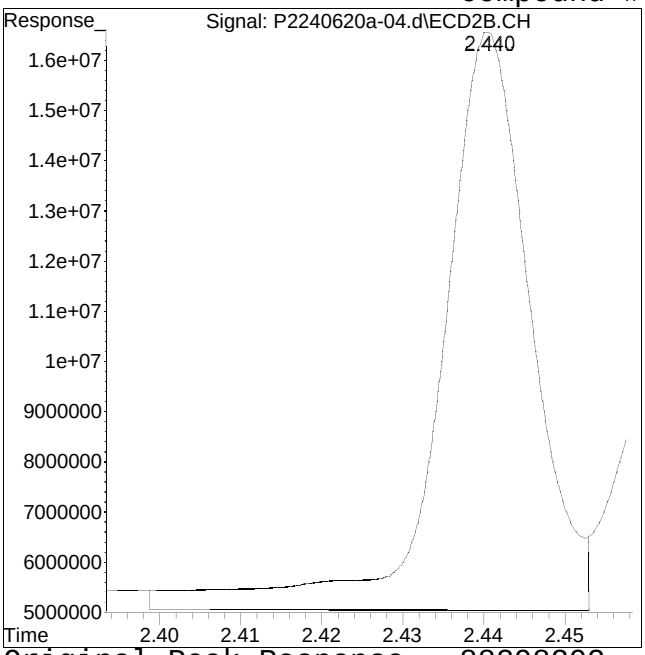


Original Peak Response = 161321367 Manual Peak Response = 141917733 M4
M4 = Poor automated baseline construction.

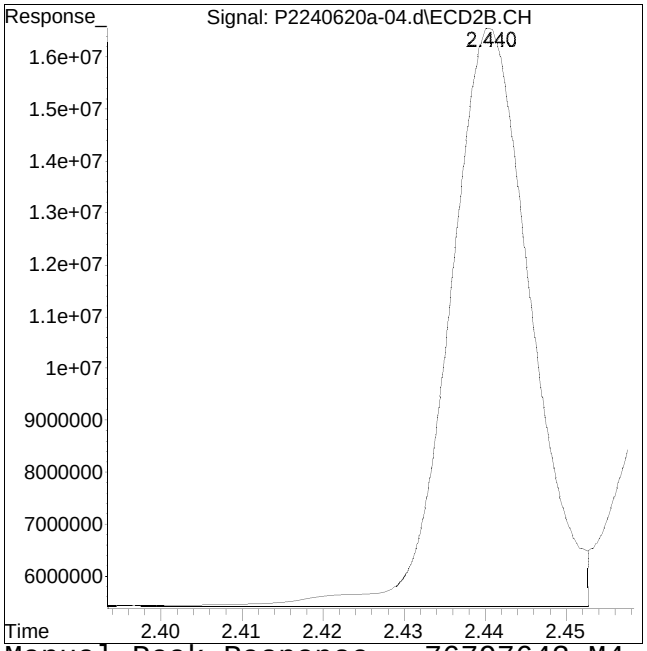
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #59: 1016-5 #2



Original Peak Response = 88298292



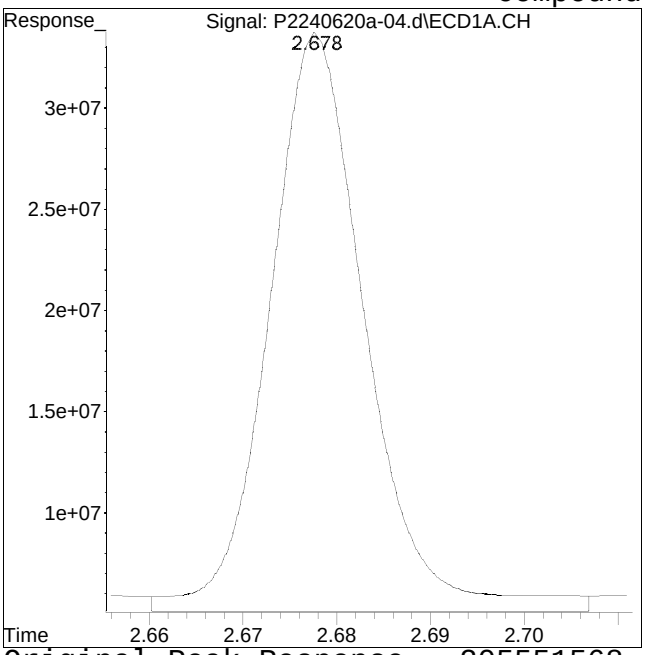
Manual Peak Response = 76797643 M4

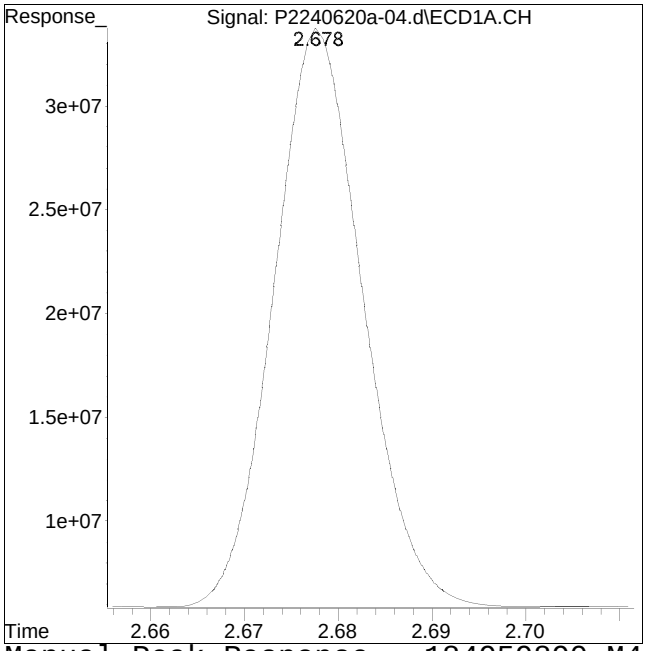
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #9: 1260-1



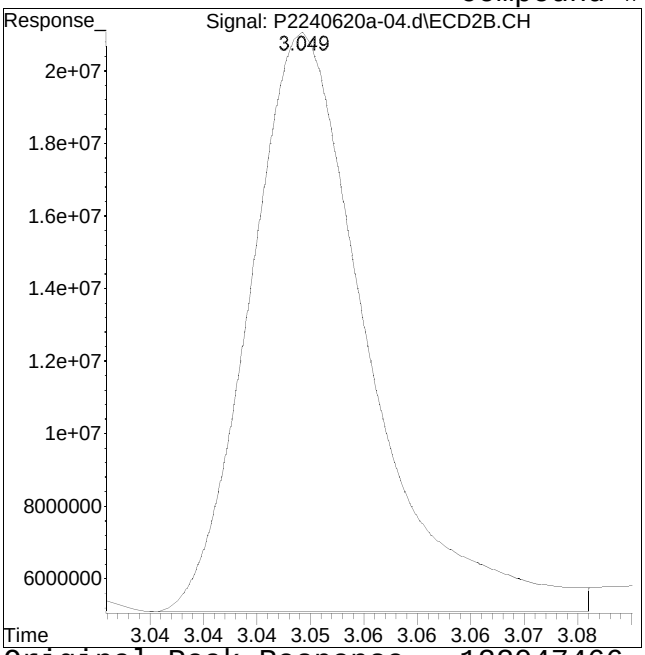


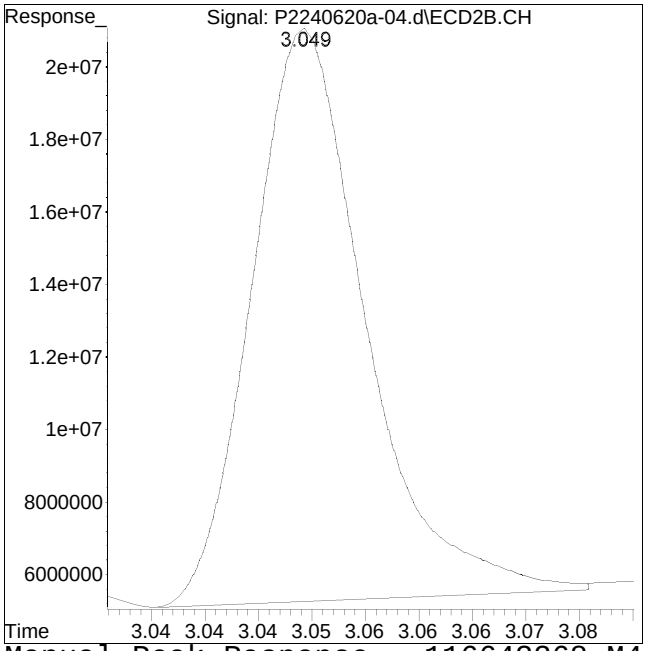
Original Peak Response = 205551568 Manual Peak Response = 184959890 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #60: 1260-1 #2



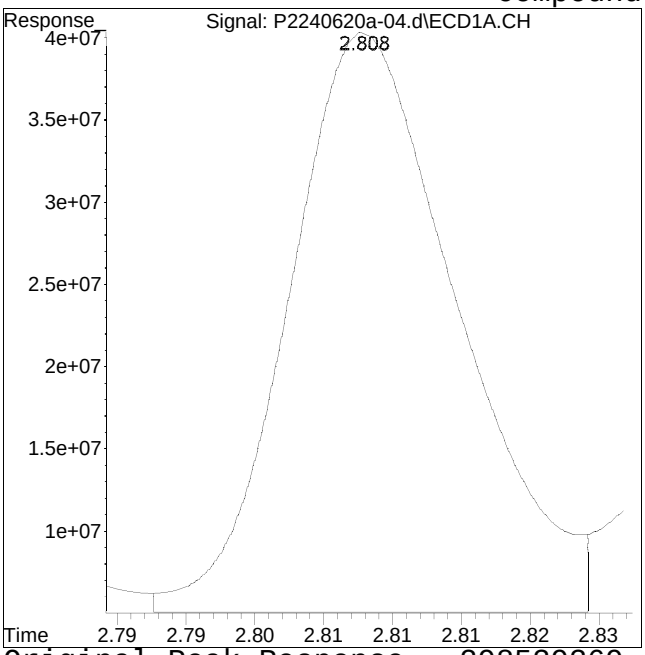


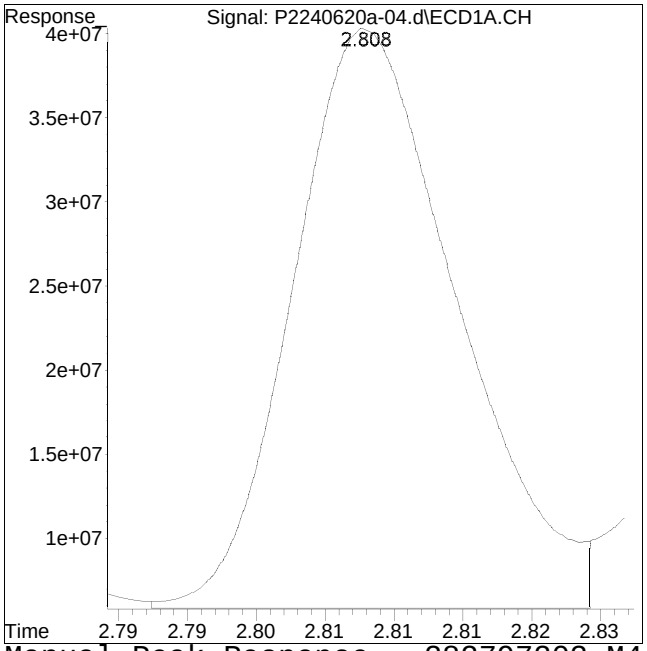
Original Peak Response = 122047466 Manual Peak Response = 116643268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #10: 1260-2



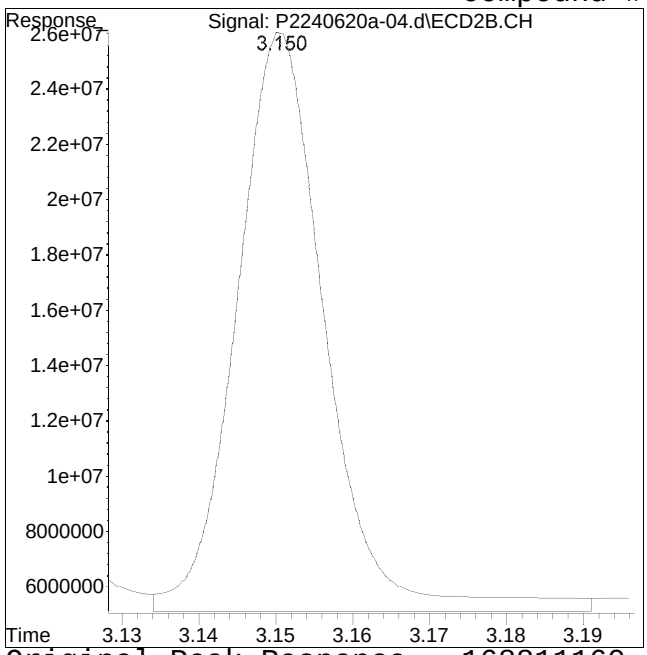


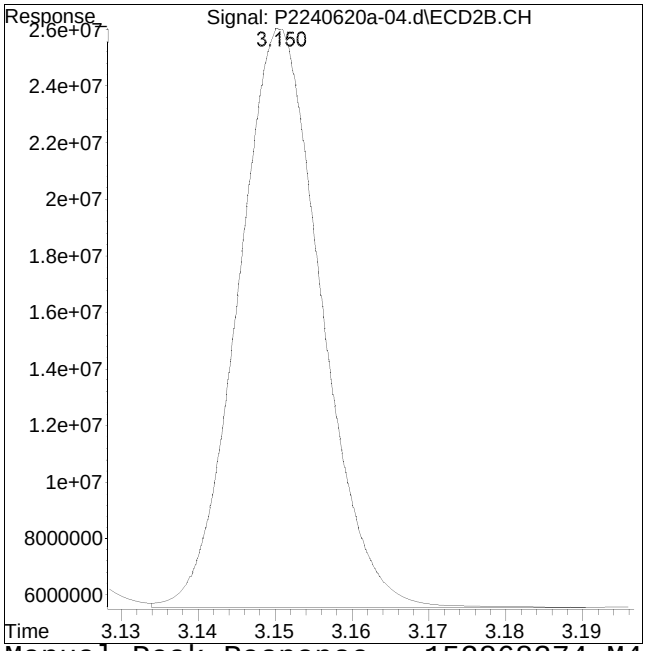
Original Peak Response = 298539369 Manual Peak Response = 282797203 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #61: 1260-2 #2



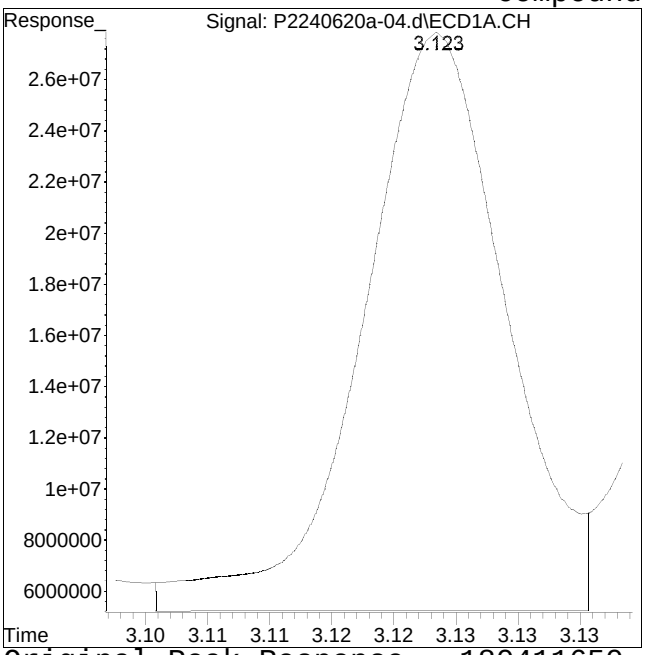


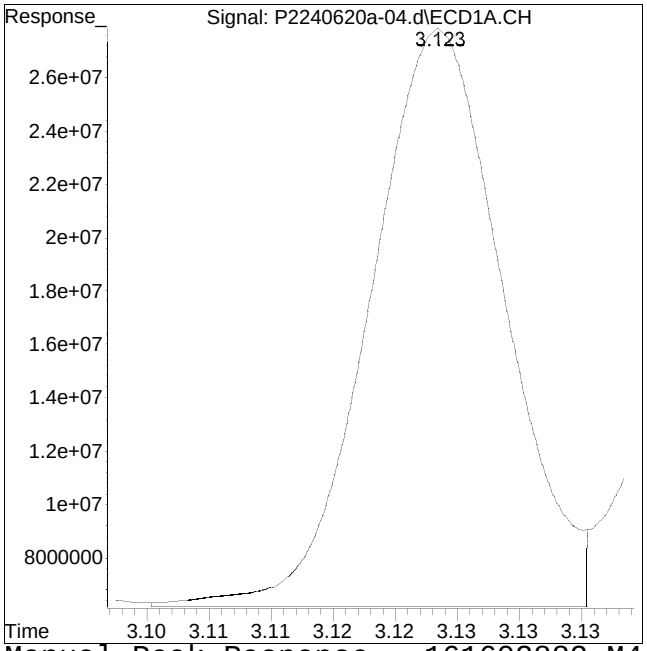
Original Peak Response = 168811160 Manual Peak Response = 152868374 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\Q Method : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1 Quant Date : 6/20/2024 6:18 am

Compound #11: 1260-3



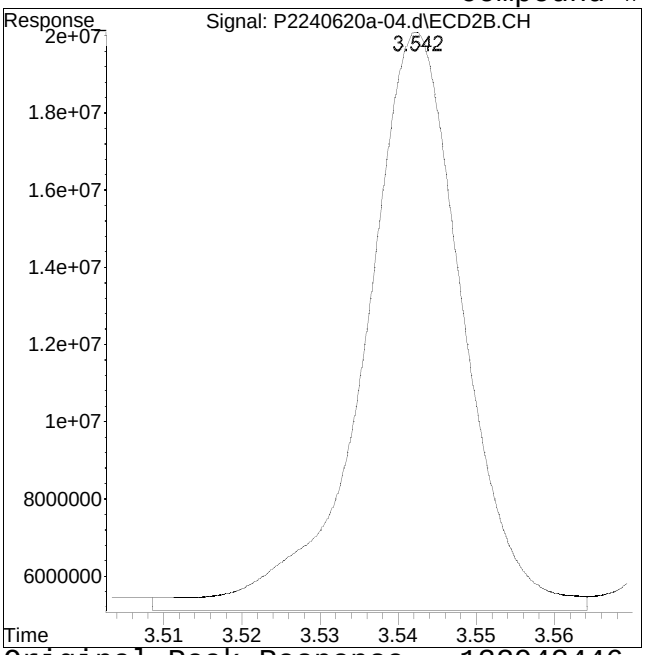


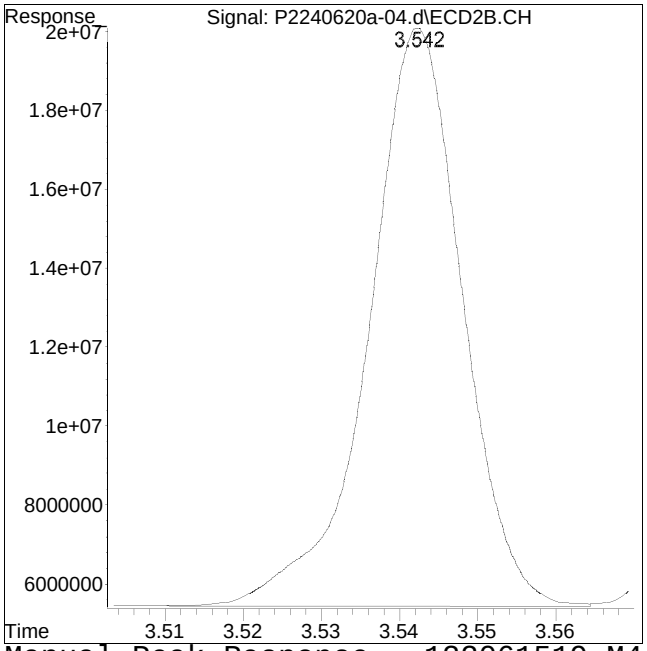
Original Peak Response = 180411650 Manual Peak Response = 161602882 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #62: 1260-3 #2



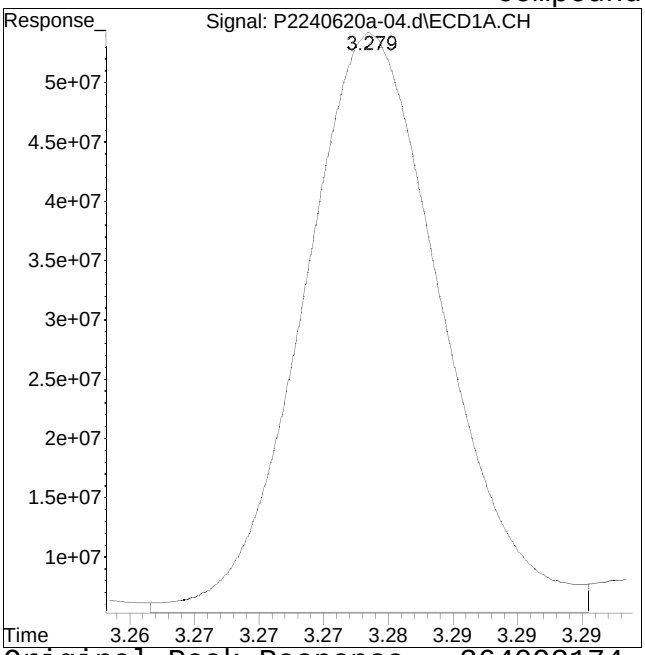


Original Peak Response = 132942446 Manual Peak Response = 122061519 M4
M4 = Poor automated baseline construction.

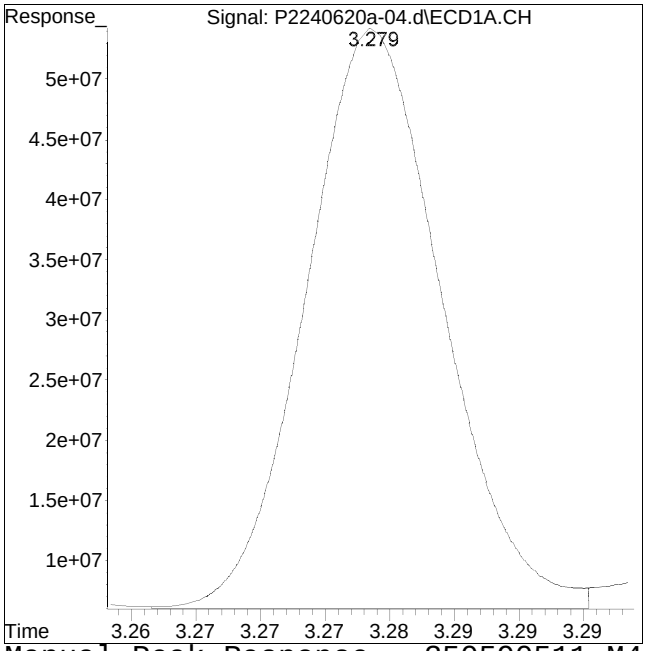
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #12: 1260-4



Original Peak Response = 364093174



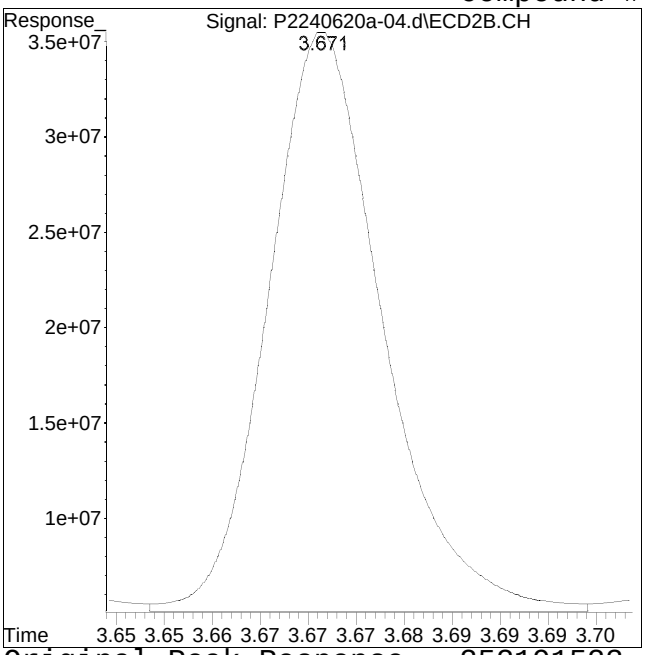
Manual Peak Response = 350590511 M4

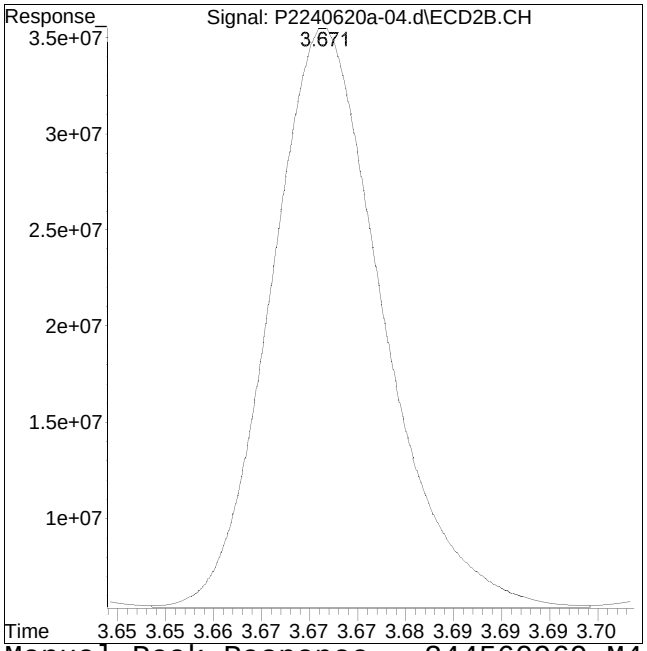
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #63: 1260-4 #2



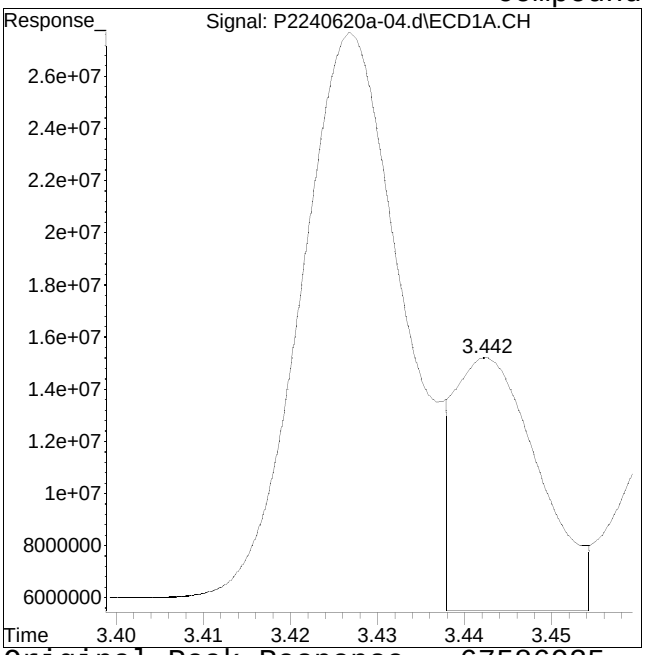


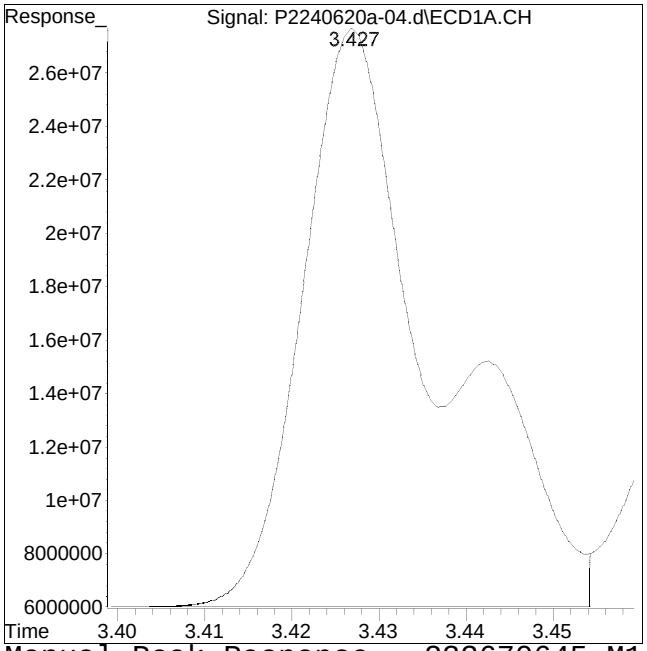
Original Peak Response = 252191523 Manual Peak Response = 244560969 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1Quant Date : 6/20/2024 6:18 am

Compound #13: 1260-5



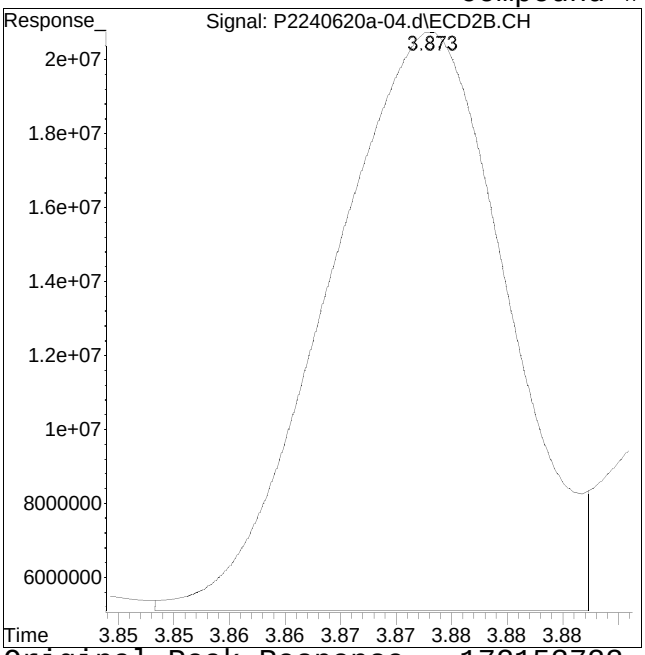


Original Peak Response = 67586935 Manual Peak Response = 233670645 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

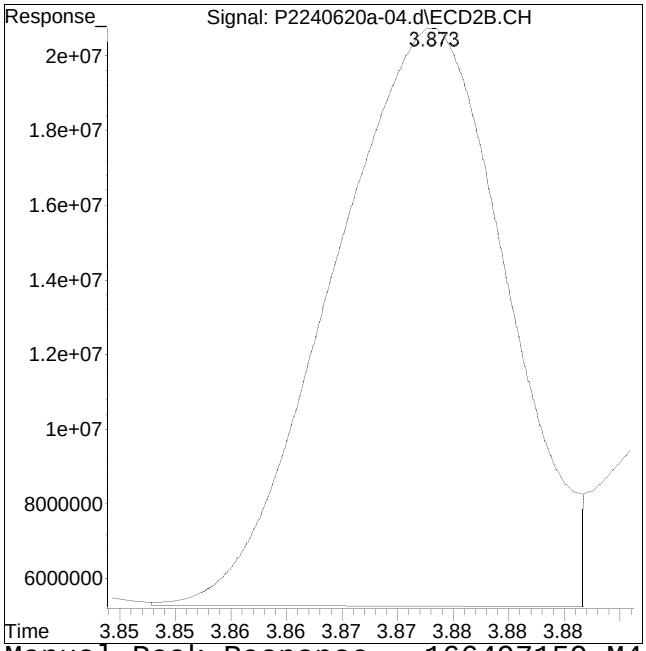
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\Q Method : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-04.d Operator : pest2:akm
Date Inj'd : 6/20/2024 6:10 Instrument : Pest 2
Sample : wg1936878-1,42,, +1660 pp1 Quant Date : 6/20/2024 6:18 am

Compound #64: 1260-5 #2



Original Peak Response = 172153723



Manual Peak Response = 166497159 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:56
Operator : pest2:meo
Sample : WG1936802-1,42,, 804 (Sig #1); WG1936804-1,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:37 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.226	347.5E6	236.2E6	25.000	25.000
	Standard Area 1 : #1 = 305460179				Recovery =	113.77%	
	Standard Area 1 : #2 = 224448888				Recovery =	105.24%	
14) i	2154_1br2nb	1.159	1.226	347.5E6	236.2E6	25.000	25.000
23) i	4268_1br2nb	1.159	1.226	347.5E6	236.2E6	25.000	25.000
34) i	1248_1br2nb	1.159	1.226	347.5E6	236.2E6	25.000	25.000
40) i	3262_1br2nb	1.159	1.226	347.5E6	236.2E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.600	341.7E6	206.5E6	18.751	17.748
	Spiked Amount 20.000	Range 30 - 150			Recovery =	93.76%	88.74%
3) s	Decachlorobi	4.017	4.534	221.0E6	152.9E6	18.771M4	27.896M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	93.86%	139.48%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:56
Operator : pest2:meo
Sample : WG1936802-1,42,, 804 (Sig #1); WG1936804-1,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:37 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:56
Operator : pest2:meo
Sample : WG1936802-1,42,, 804 (Sig #1); WG1936804-1,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:37 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

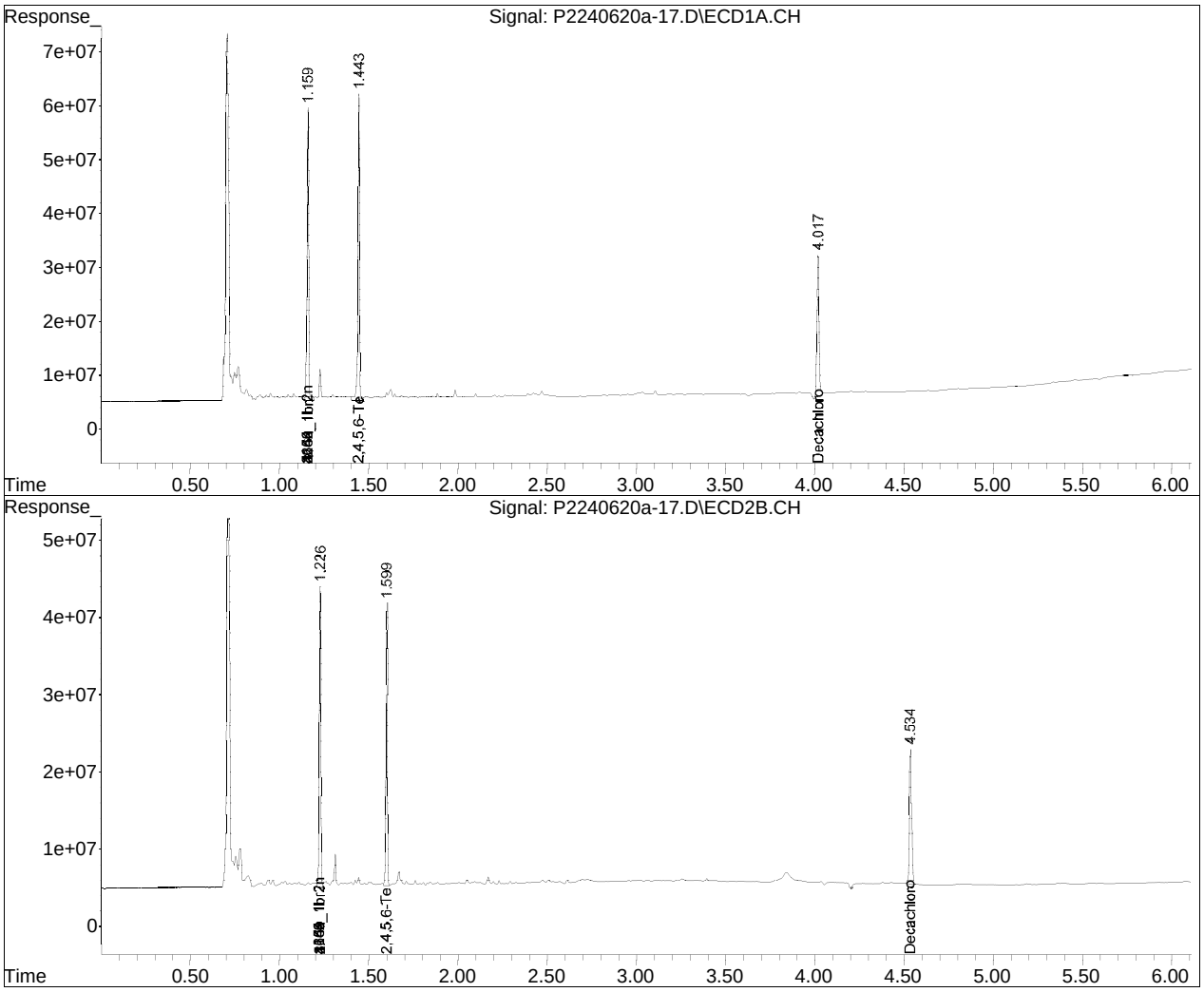
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:56
Operator : pest2:meo
Sample : WG1936802-1,42,, 804 (Sig #1); WG1936804-1,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:37 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

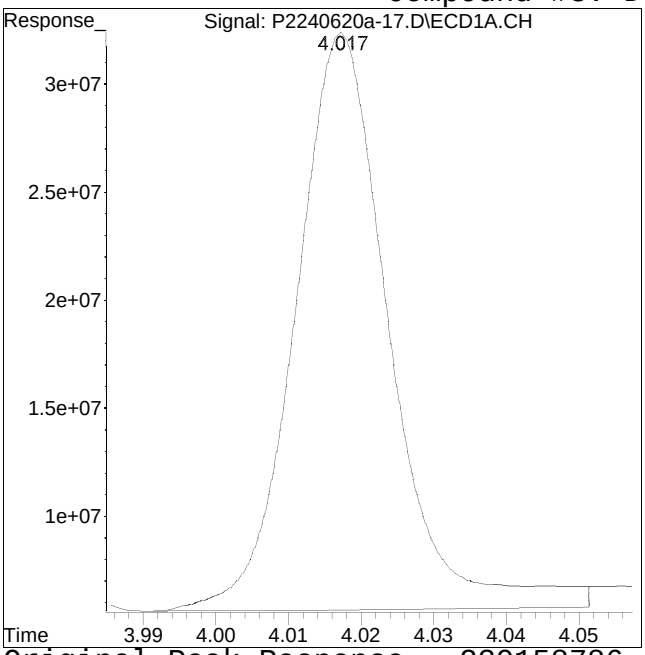
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

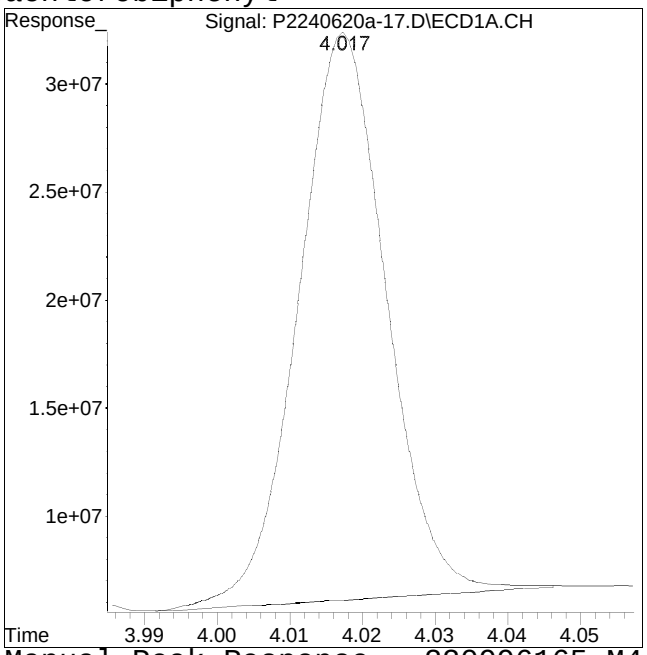


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-17.D Operator : pest2:meo
Date Inj'd : 6/20/2024 9:56 Instrument : Pest 2
Sample : WG1936802-1,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #3: Decachlorobiphenyl



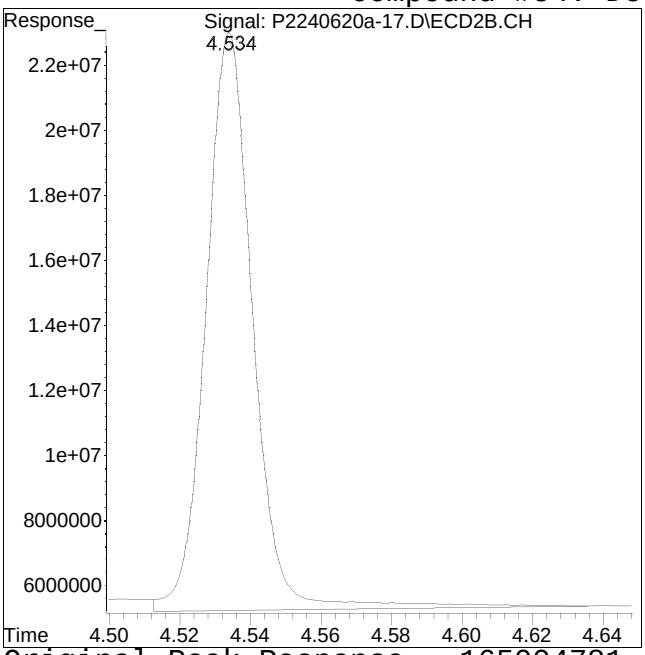


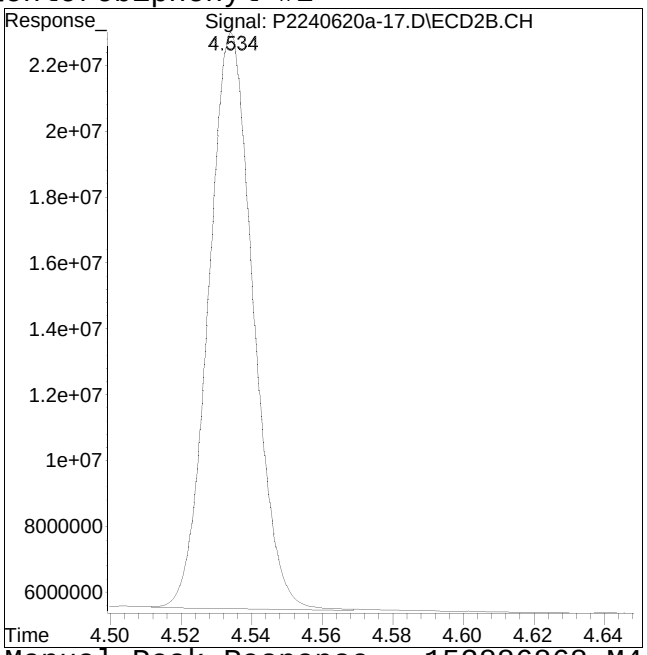
Original Peak Response = 239158786 Manual Peak Response = 220996165 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-17.D Operator : pest2:meo
Date Inj'd : 6/20/2024 9:56 Instrument : Pest 2
Sample : WG1936802-1,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 165004781 Manual Peak Response = 152886868 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:05
Operator : pest2:meo
Sample : WG1936802-2,42,, 804 (Sig #1); WG1936804-2,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:40 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.158	1.226	344.5E6	236.3E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	112.79%	
Standard Area 1 : #2 = 224448888				Recovery =	105.27%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.442	1.599	353.4E6	216.3E6	19.564	18.585
Spiked Amount 20.000	Range 30 - 150		Recovery =	97.82%	92.92%	
3) s Decachlorobi	4.010	4.523	220.7E6	151.5E6	18.907M4	27.629M4
Spiked Amount 20.000	Range 30 - 150		Recovery =	94.53%	138.15%	
Target Compounds						
4) l1 1016-1	1.580	1.801	78226055	56491334	252.933	284.093
5) l1 1016-2	1.722	1.971	164.7E6	123.2E6	242.912	282.095
6) l1 1016-3	1.911	2.171	354.0E6	235.9E6	254.024	269.954
7) l1 1016-4	1.966	2.231	156.3E6	101.8E6	281.356	315.153
8) l1 1016-5	2.135	2.441	164.4E6	88340807	266.667	322.553
Sum 1016-1			917.6E6	605.7E6	1297.892	1473.849
Average 1016-1					259.578	294.770
9) l2 1260-1	2.677	3.048	202.3E6	152.5E6	227.437M4	299.015M4
10) l2 1260-2	2.807	3.150	318.3E6	165.7E6	237.383M4	283.936M4
11) l2 1260-3	3.122	3.542	186.8E6	151.0E6	224.227M4	333.692
12) l2 1260-4	3.278	3.671	414.1E6	280.9E6	231.970M4	308.759
13) l2 1260-5	3.426	3.872	301.5E6	203.1E6	241.004M1	325.697
Sum 1260-1			1423.1E6	953.2E6	1162.021	1551.098
Average 1260-1					232.404	310.220
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:05
Operator : pest2:meo
Sample : WG1936802-2,42,, 804 (Sig #1); WG1936804-2,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:40 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

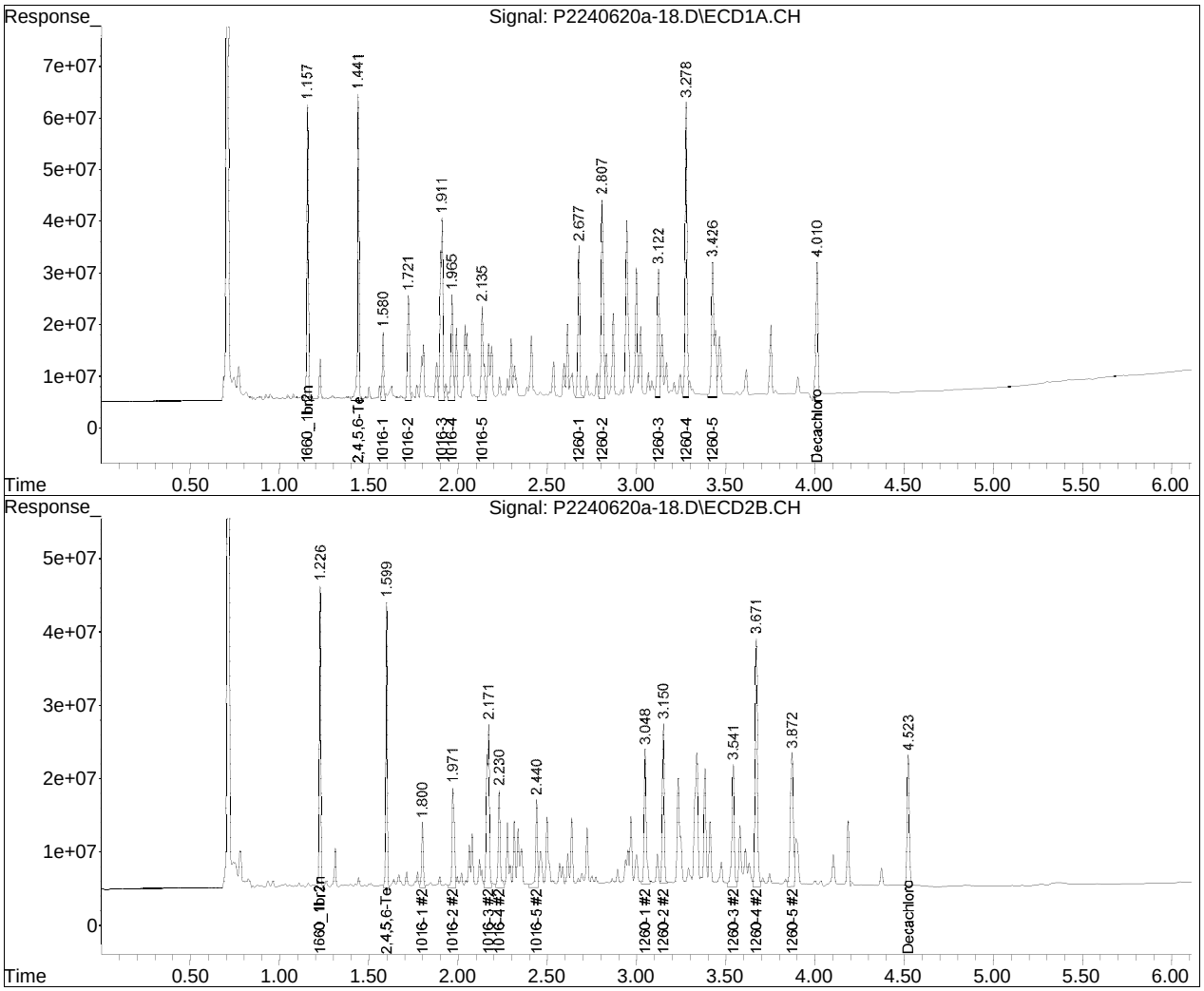
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : 1660 - 1660Pest2\2024\240620a\P2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:05
Operator : pest2:meo
Sample : WG1936802-2,42,, 804 (Sig #1); WG1936804-2,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:40 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

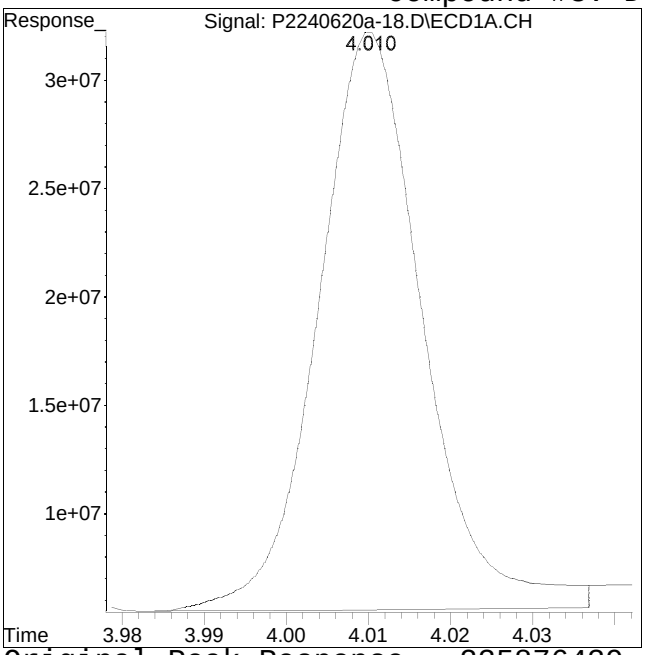
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

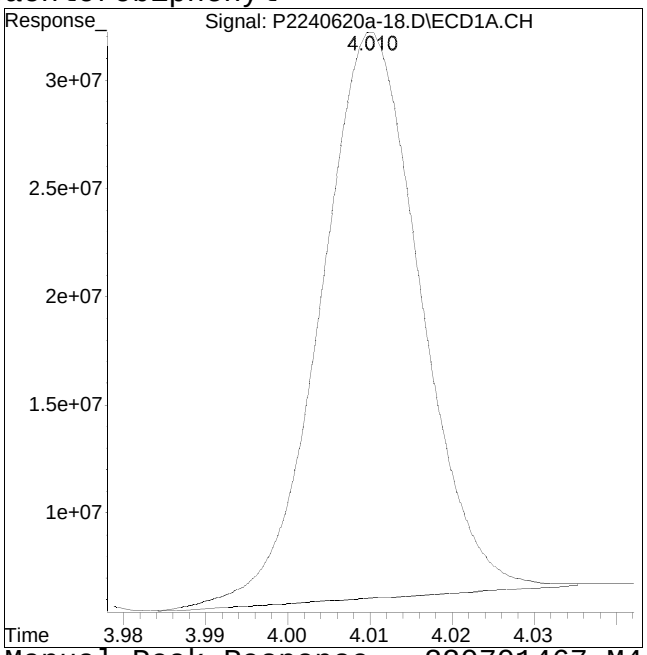


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #3: Decachlorobiphenyl



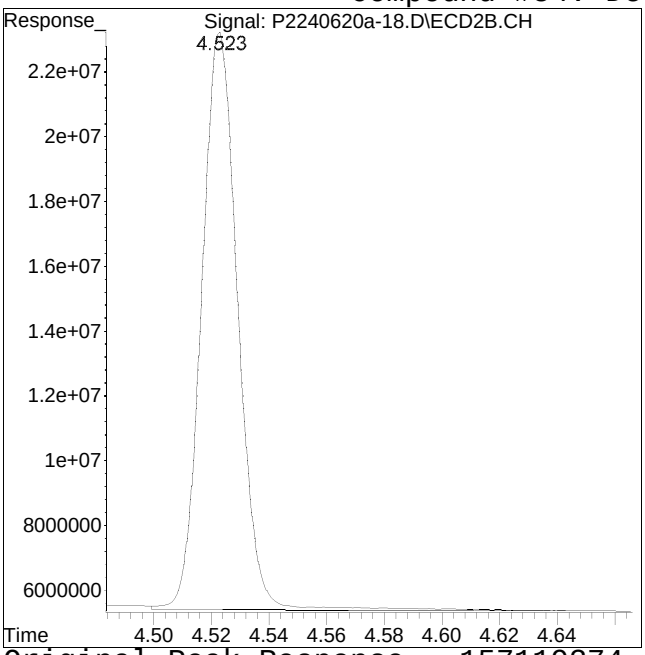


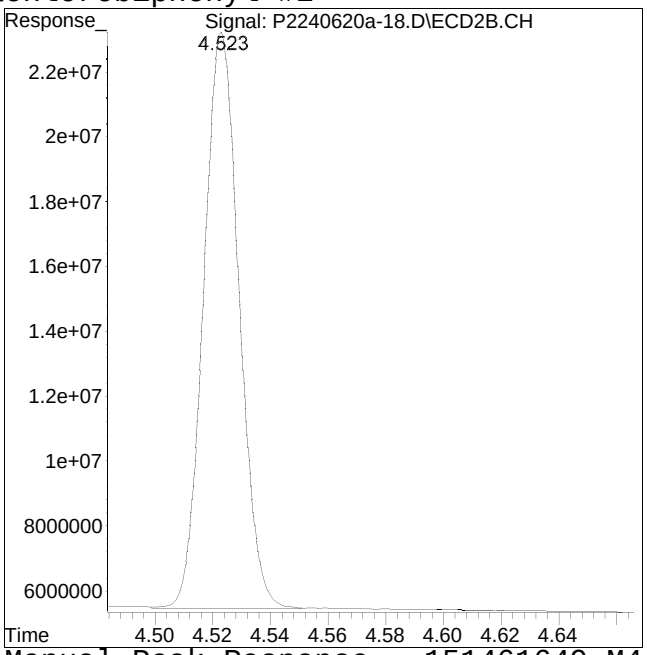
Original Peak Response = 235876439 Manual Peak Response = 220701467 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #54: Decachlorobiphenyl #2



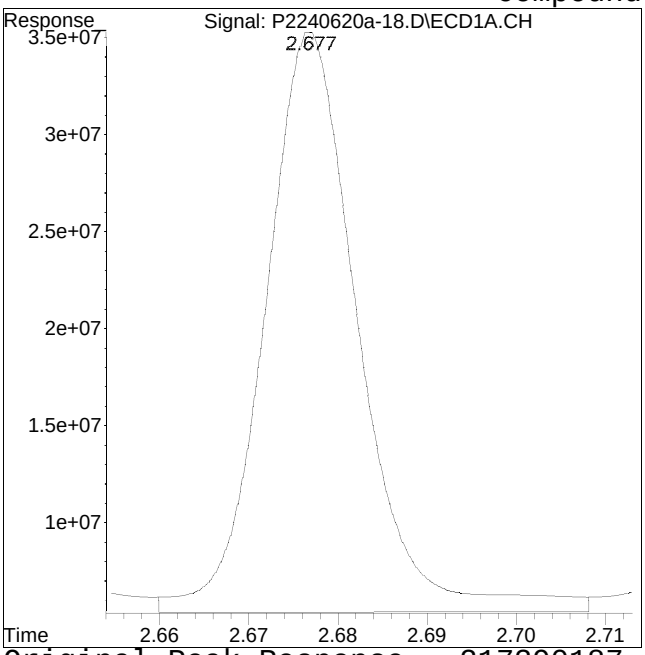


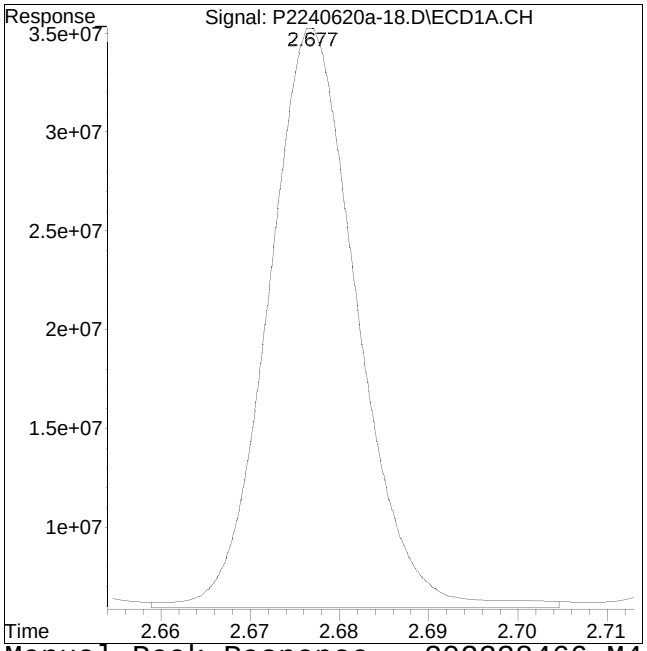
Original Peak Response = 157119374 Manual Peak Response = 151461649 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #9: 1260-1



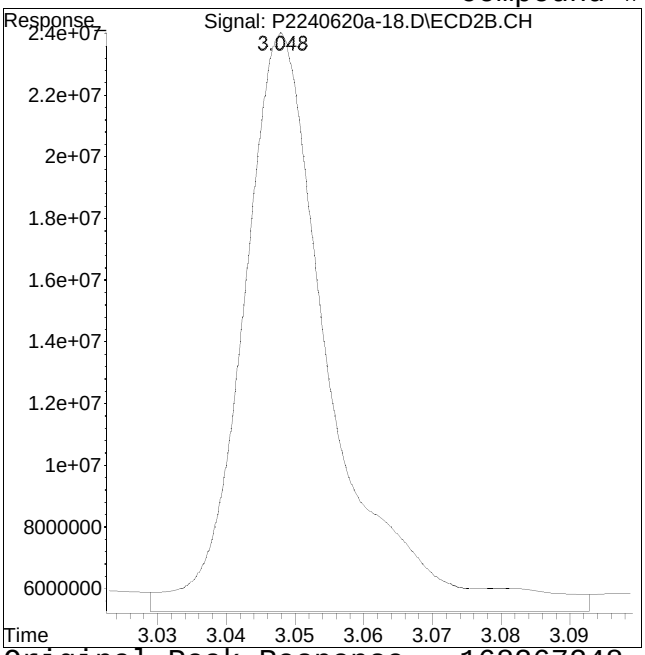


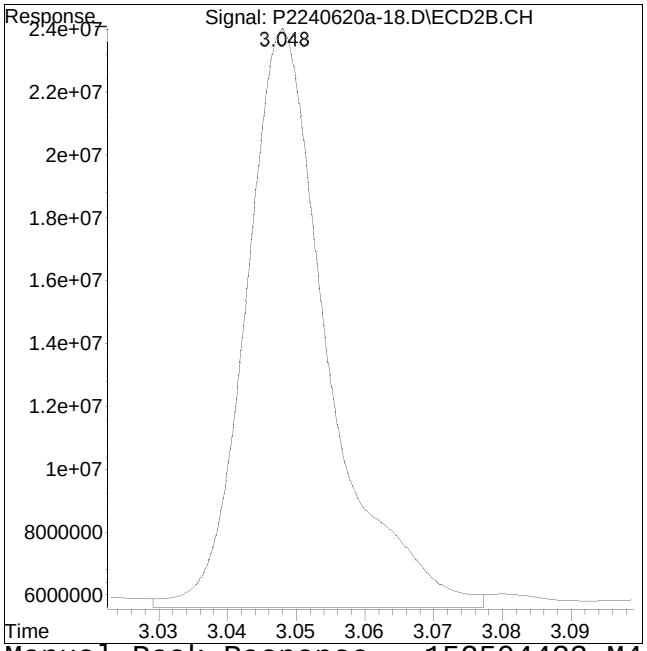
Original Peak Response = 217390187 Manual Peak Response = 202338466 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #60: 1260-1 #2



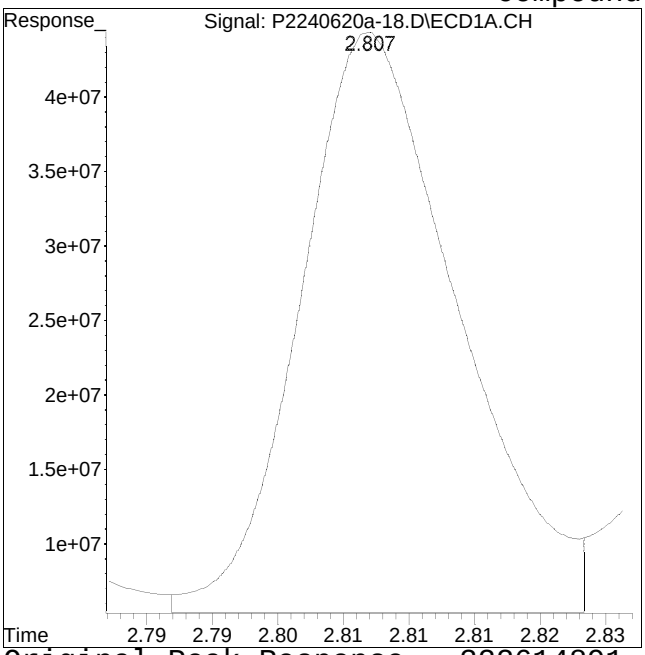


Original Peak Response = 168267248 Manual Peak Response = 152504423 M4
M4 = Poor automated baseline construction.

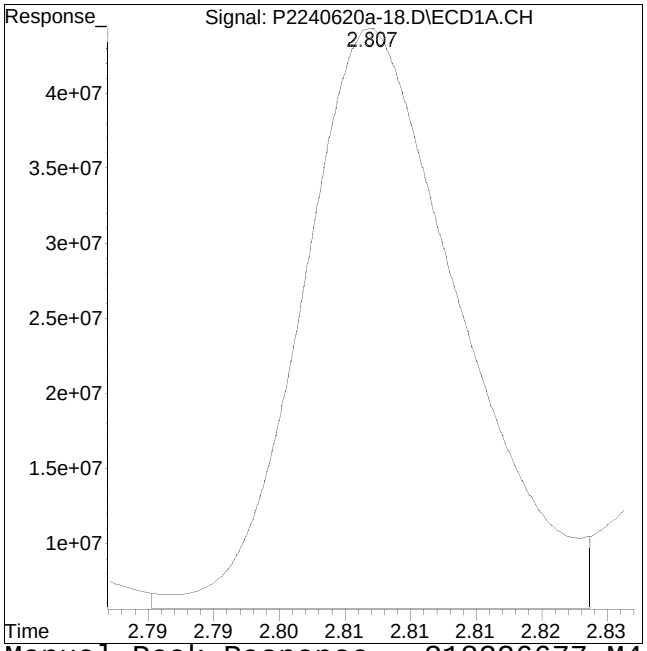
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #10: 1260-2



Original Peak Response = 322614891



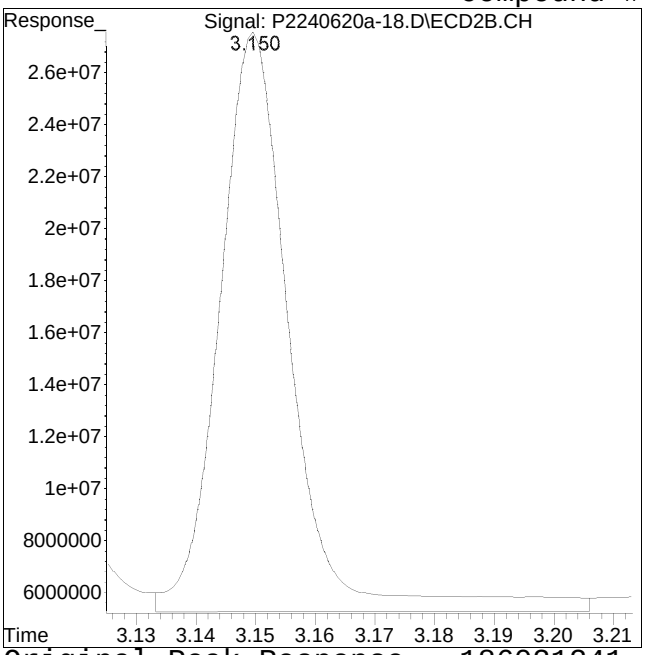
Manual Peak Response = 318326677 M4

M4 = Poor automated baseline construction.

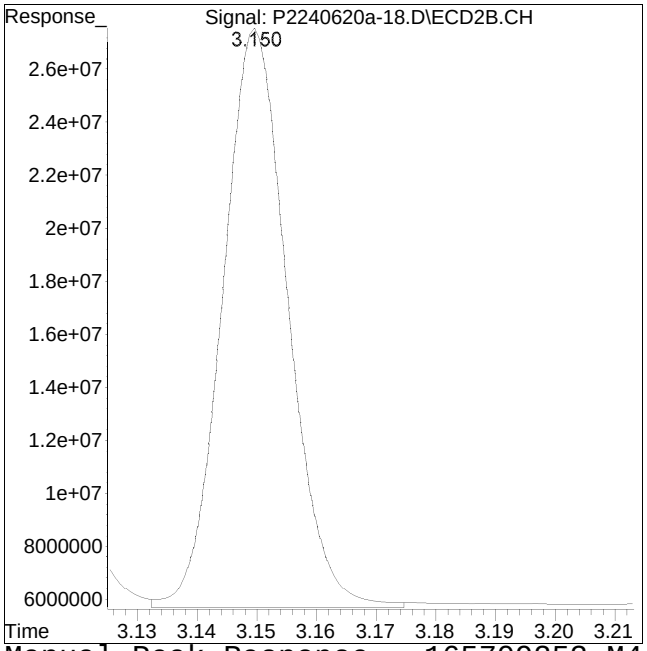
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #61: 1260-2 #2



Original Peak Response = 186021241



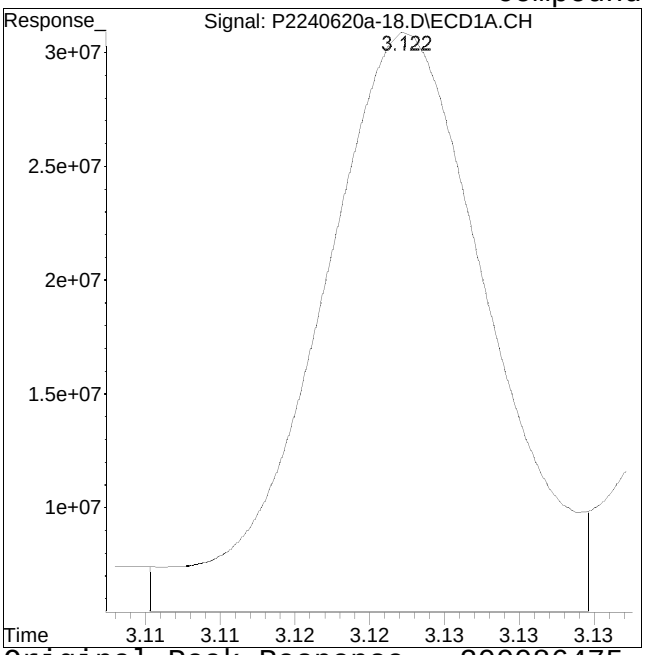
Manual Peak Response = 165709253 M4

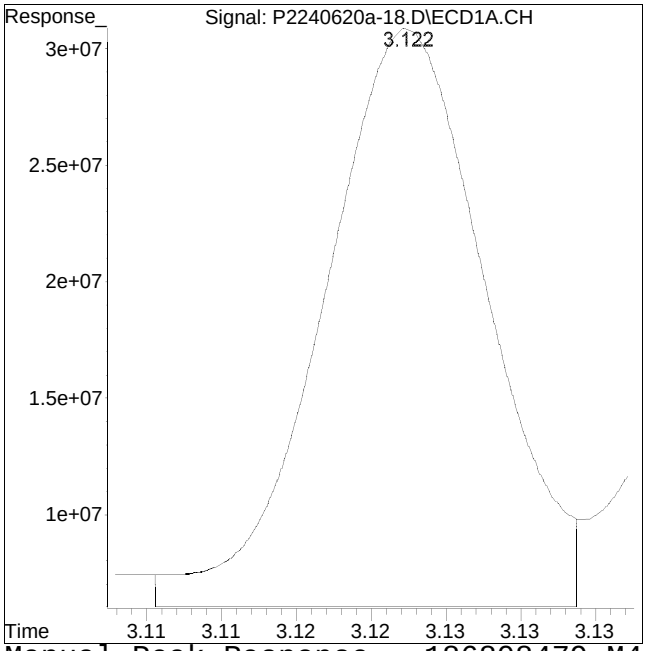
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #11: 1260-3



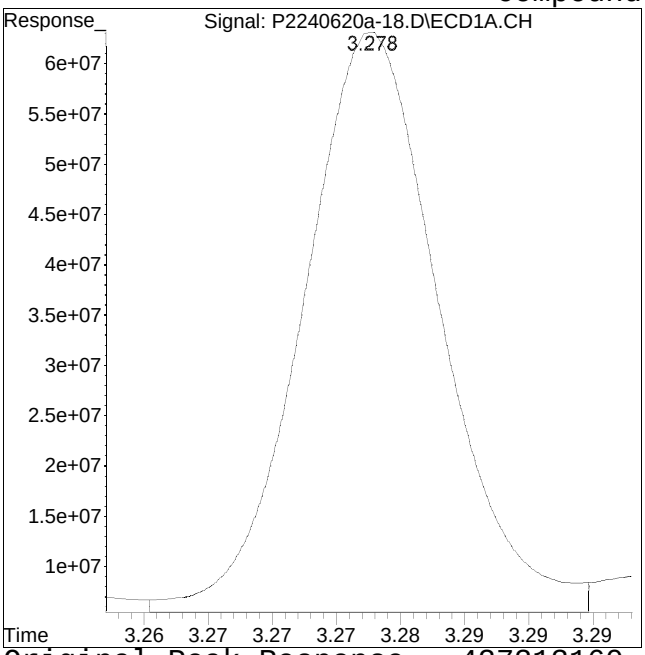


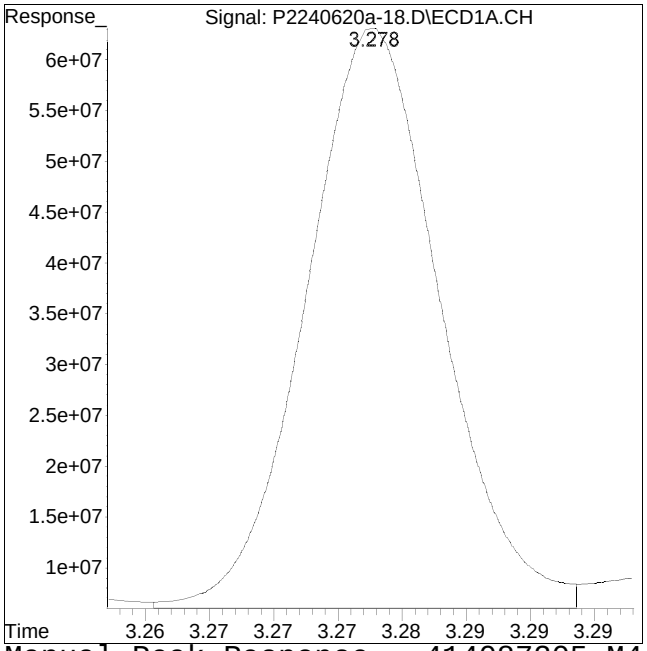
Original Peak Response = 200086475 Manual Peak Response = 186808479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #12: 1260-4



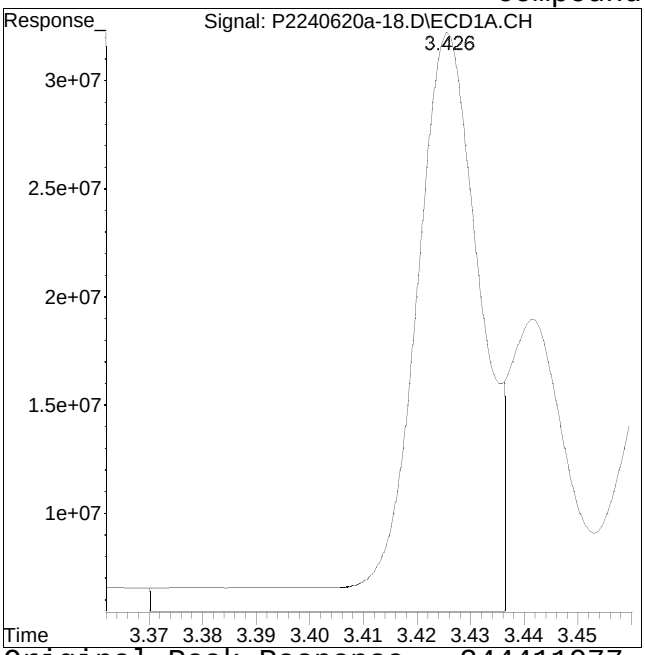


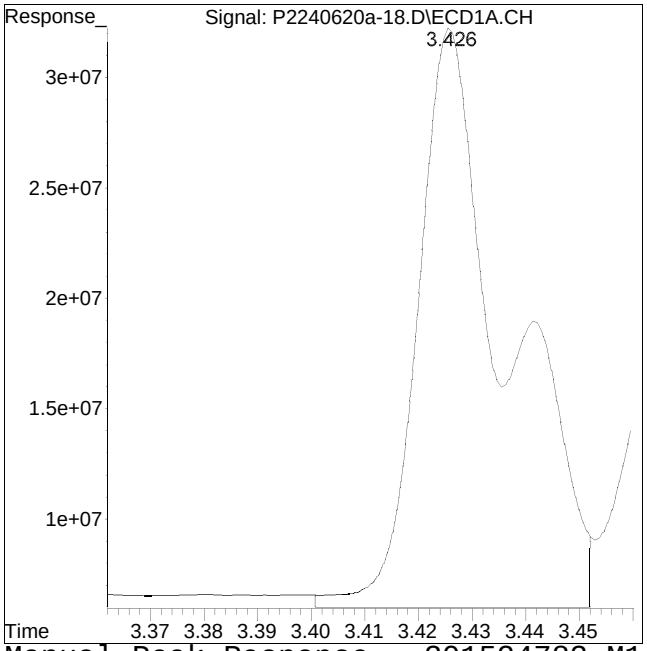
Original Peak Response = 427313160 Manual Peak Response = 414087205 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-18.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:05 Instrument : Pest 2
Sample : WG1936802-2,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #13: 1260-5





Original Peak Response = 244411977 Manual Peak Response = 301524783 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:13
Operator : pest2:meo
Sample : WG1936802-3,42,, 804 (Sig #1); WG1936804-3,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:43 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.160	1.228	371.0E6	249.2E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	121.46%	
Standard Area 1 : #2 = 224448888				Recovery =	111.04%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.601	346.9E6	211.2E6	17.833	17.205
Spiked Amount	20.000	Range 30 - 150		Recovery =	89.16%	86.02%
3) s Decachlorobi	4.012	4.527	221.1E6	160.5E6	17.587M4	27.750
Spiked Amount	20.000	Range 30 - 150		Recovery =	87.94%	138.75%
Target Compounds						
4) l1 1016-1	1.582	1.802	71241212	56997956	213.907M4	271.748
5) l1 1016-2	1.724	1.974	172.7E6	122.3E6	236.574M4	265.436
6) l1 1016-3	1.913	2.173	350.6E6	225.8E6	233.633	244.982
7) l1 1016-4	1.969	2.233	154.0E6	96757819	257.333	283.887
8) l1 1016-5	2.138	2.443	160.5E6	85784132	241.735	296.945
Sum 1016-1			909.0E6	587.6E6	1183.182	1362.998
Average 1016-1					236.636	272.600
9) l2 1260-1	2.680	3.051	214.2E6	156.5E6	223.543	290.984M4
10) l2 1260-2	2.810	3.152	312.7E6	170.5E6	216.525M4	277.018M4
11) l2 1260-3	3.125	3.544	184.8E6	145.3E6	206.036M4	304.357
12) l2 1260-4	3.280	3.673	425.5E6	279.0E6	221.326M4	290.743
13) l2 1260-5	3.428	3.874	306.2E6	197.1E6	227.289M4	299.578
Sum 1260-1			1443.4E6	948.4E6	1094.720	1462.680
Average 1260-1					218.944	292.536
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:13
Operator : pest2:meo
Sample : WG1936802-3,42,, 804 (Sig #1); WG1936804-3,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:43 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

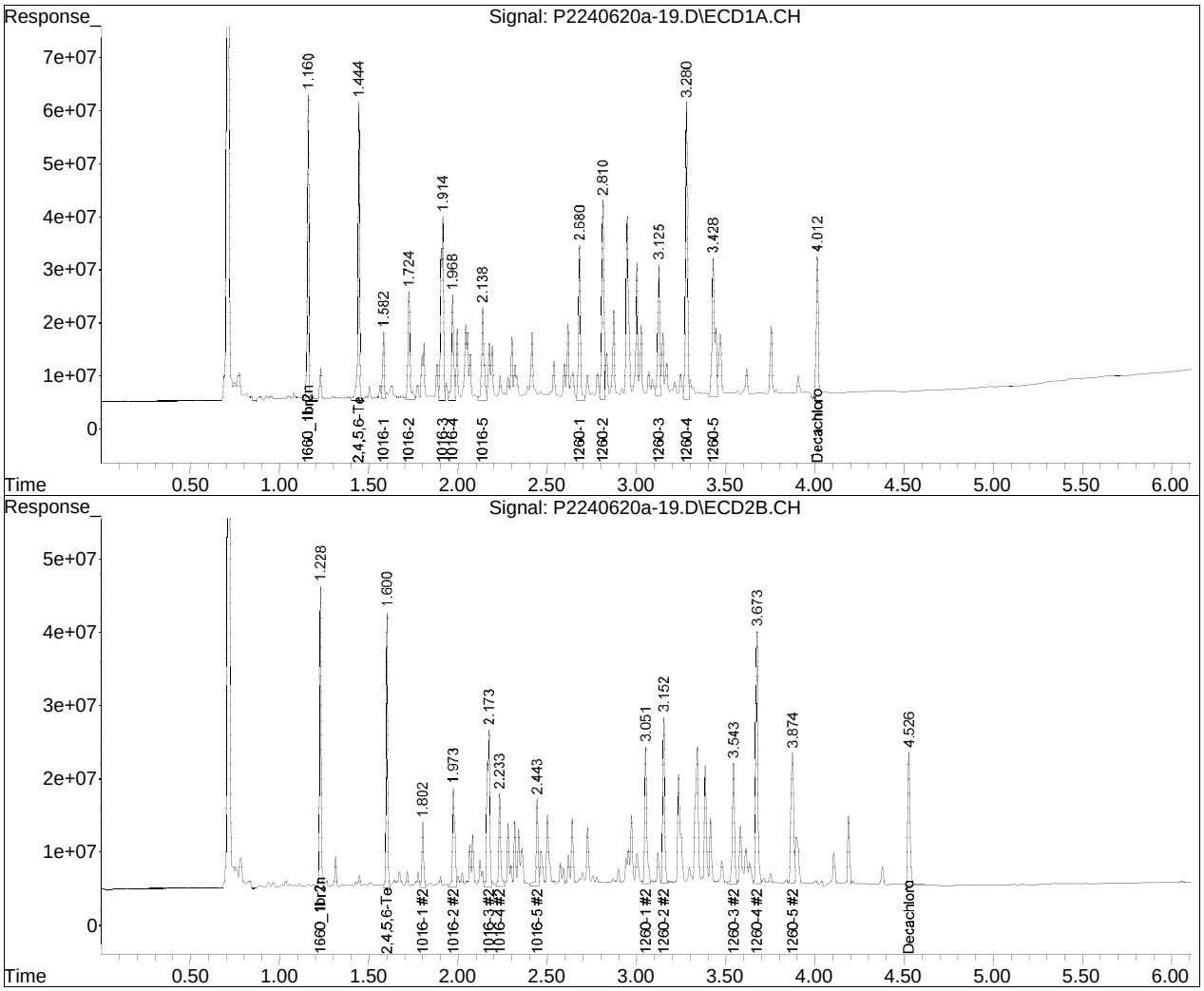
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240620a\P2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:13
Operator : pest2:meo
Sample : WG1936802-3,42,, 804 (Sig #1); WG1936804-3,42,, 802 (Sig #2)
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:12:43 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

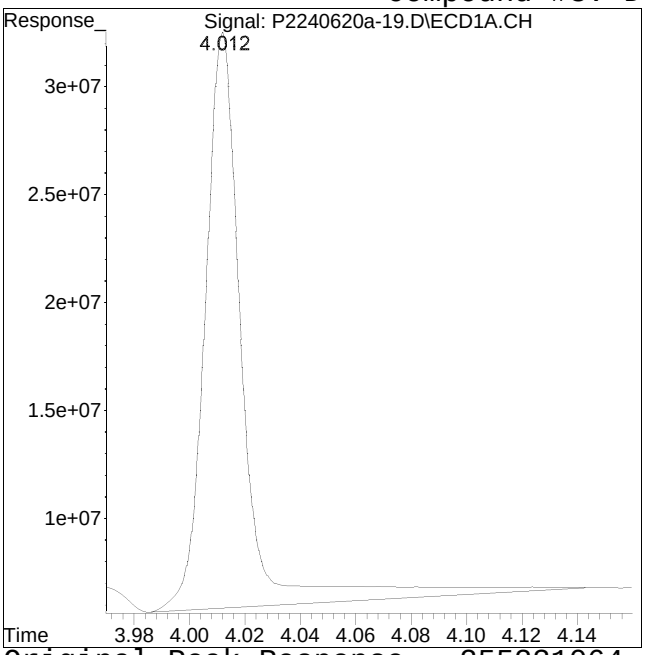
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



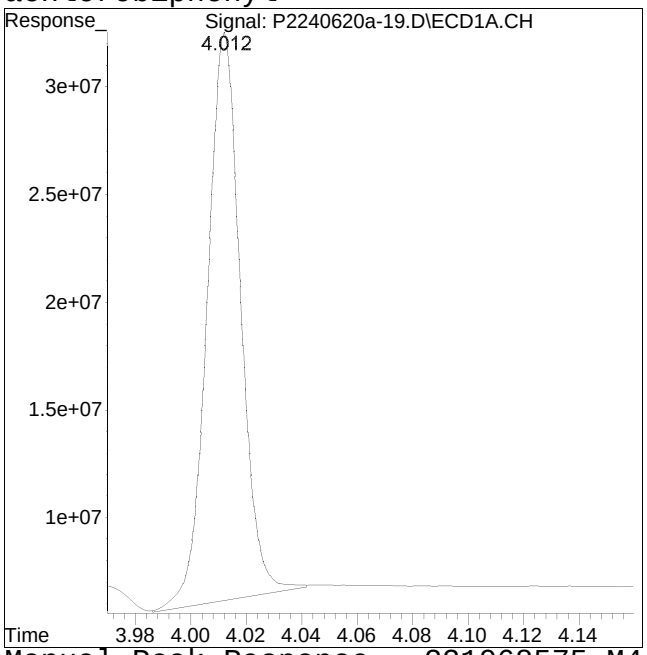
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 255231064



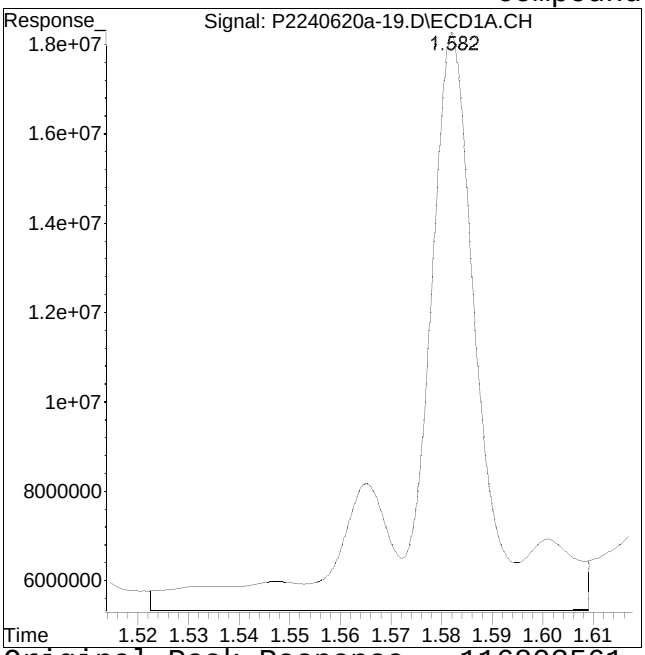
Manual Peak Response = 221068575 M4

M4 = Poor automated baseline construction.

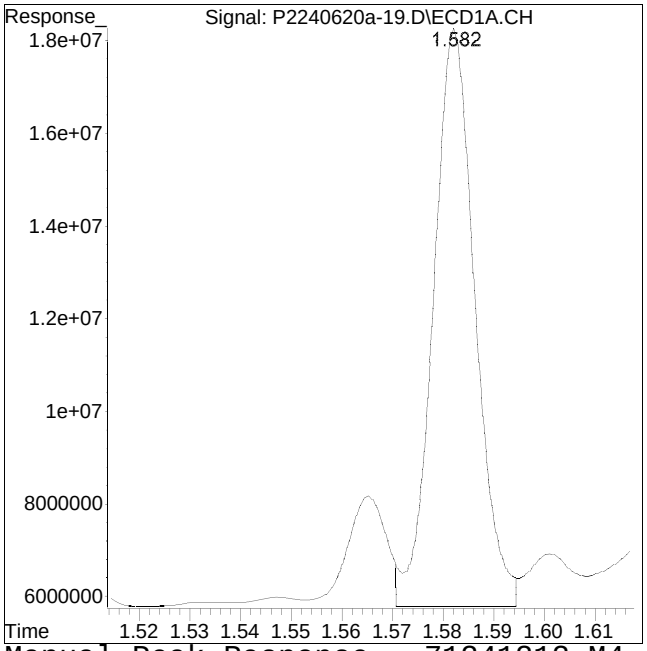
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #4: 1016-1



Original Peak Response = 116803561



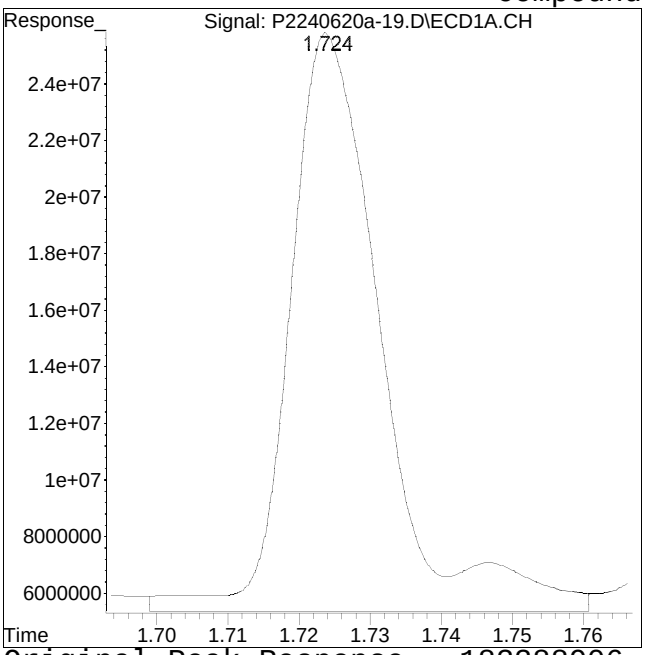
Manual Peak Response = 71241212 M4

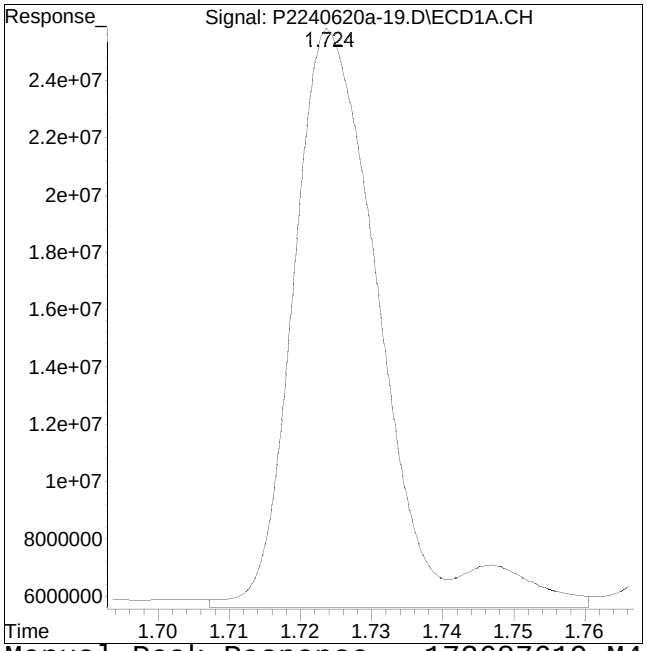
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #5: 1016-2



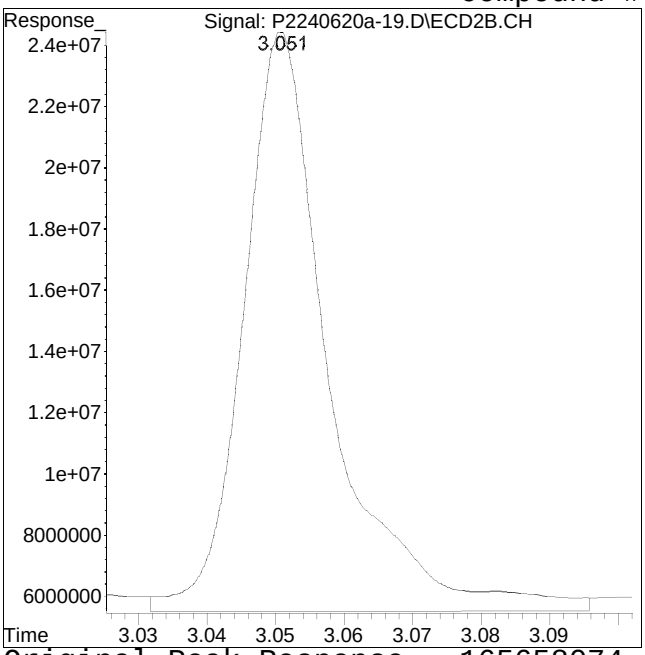


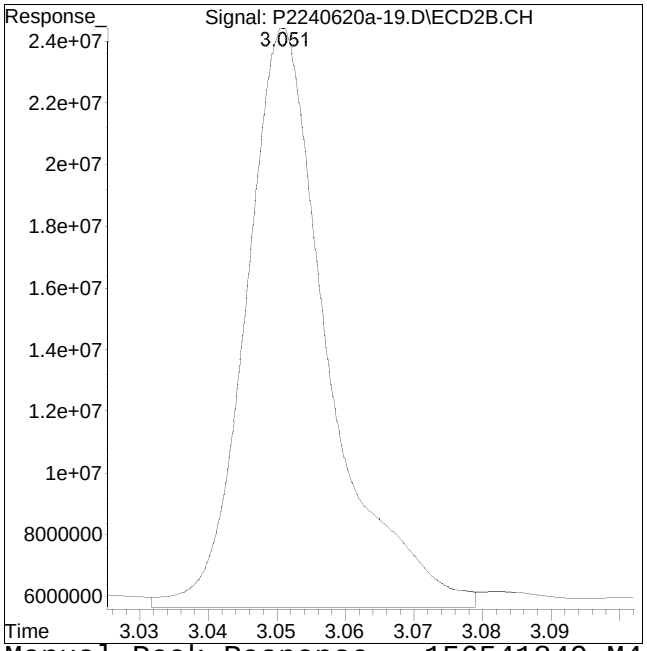
Original Peak Response = 183388906 Manual Peak Response = 172687619 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #60: 1260-1 #2



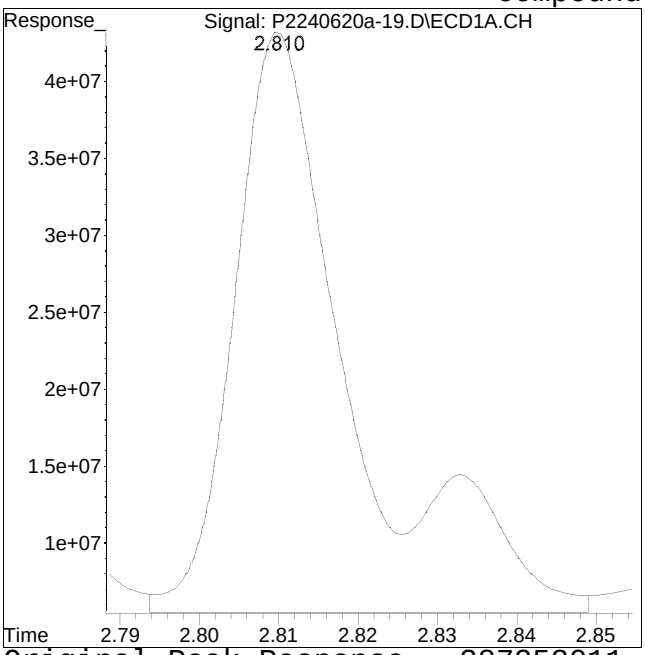


Original Peak Response = 165658074 Manual Peak Response = 156541840 M4
M4 = Poor automated baseline construction.

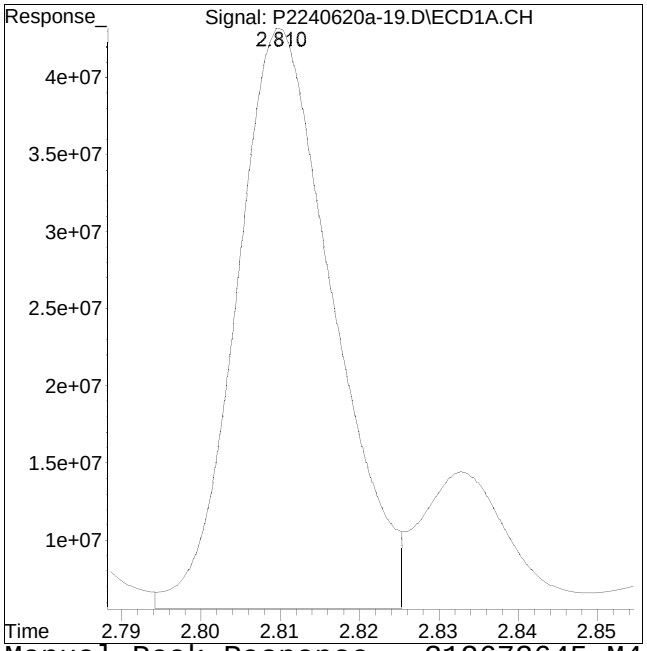
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #10: 1260-2



Original Peak Response = 387353011



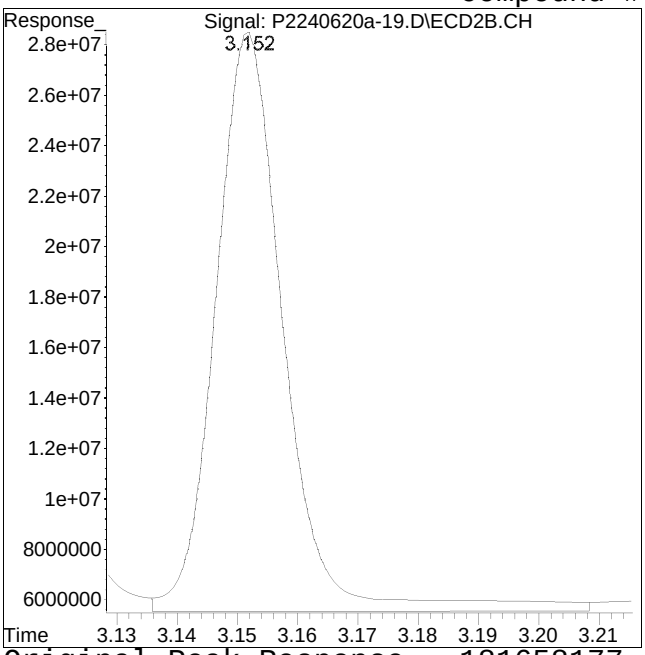
Manual Peak Response = 312673645 M4

M4 = Poor automated baseline construction.

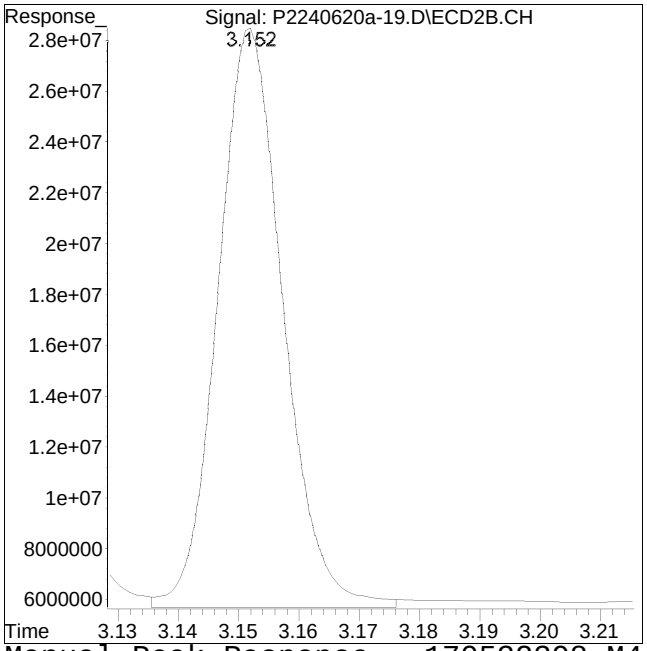
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #61: 1260-2 #2



Original Peak Response = 181658177



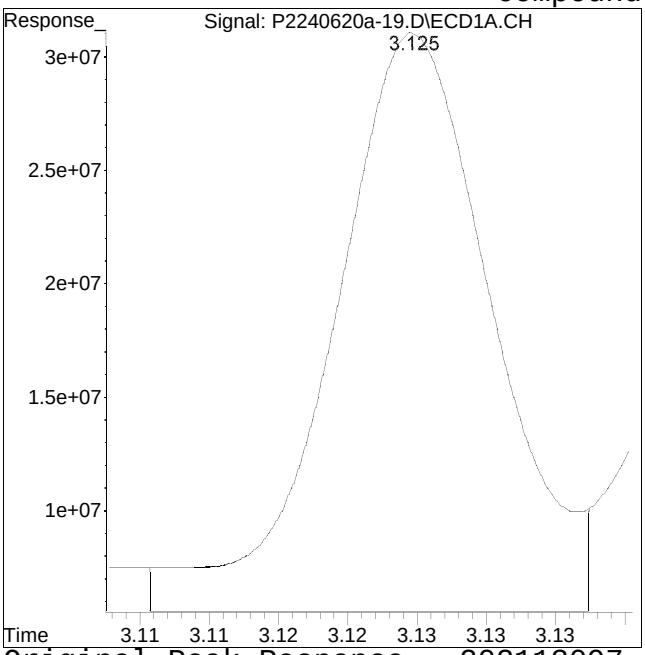
Manual Peak Response = 170532398 M4

M4 = Poor automated baseline construction.

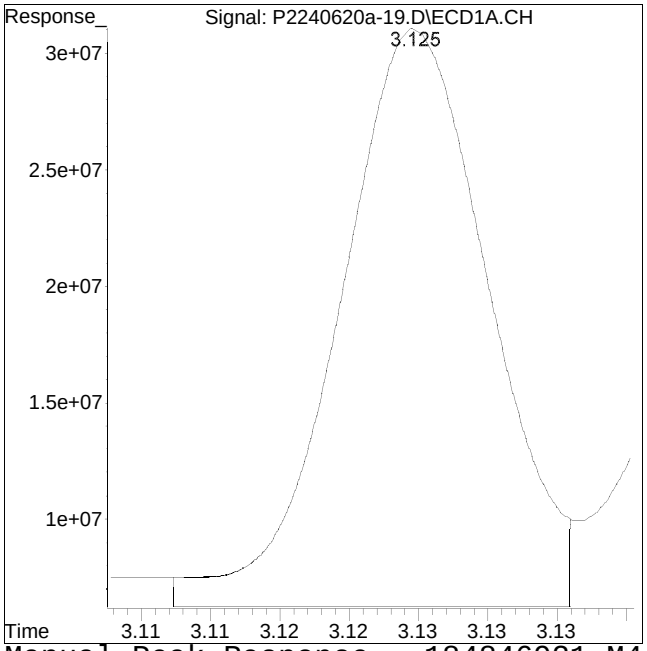
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #11: 1260-3



Original Peak Response = 202113097



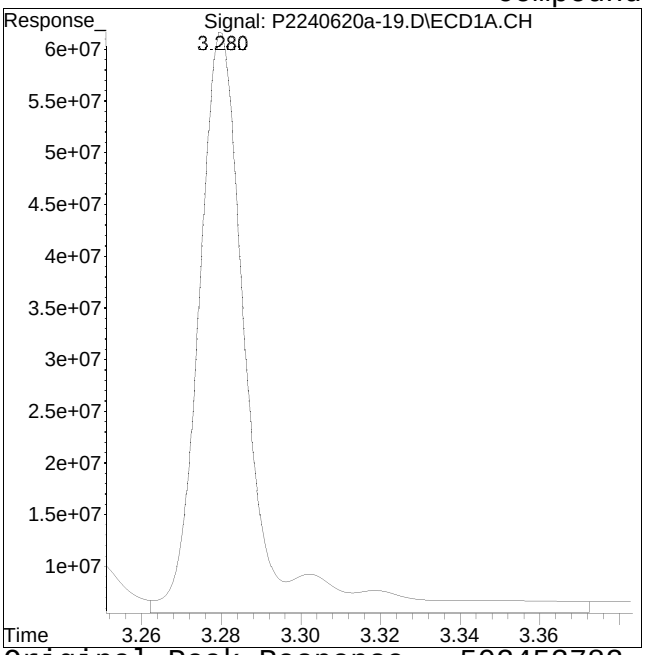
Manual Peak Response = 184846921 M4

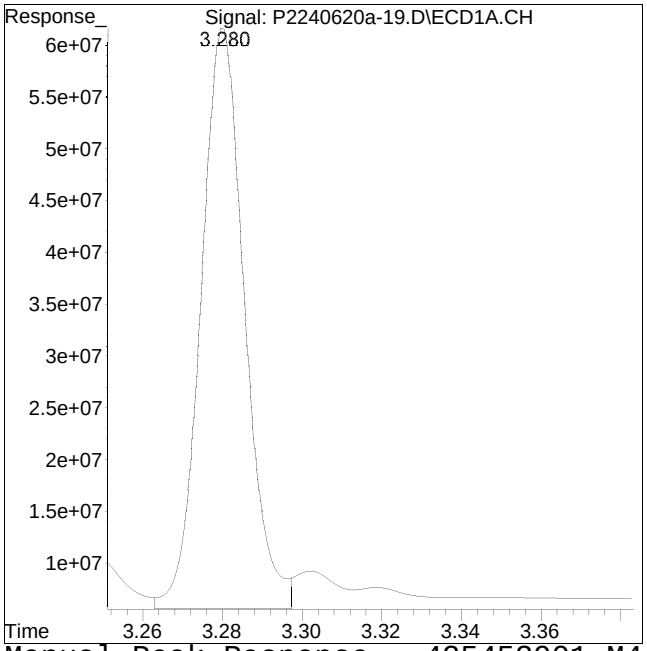
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #12: 1260-4



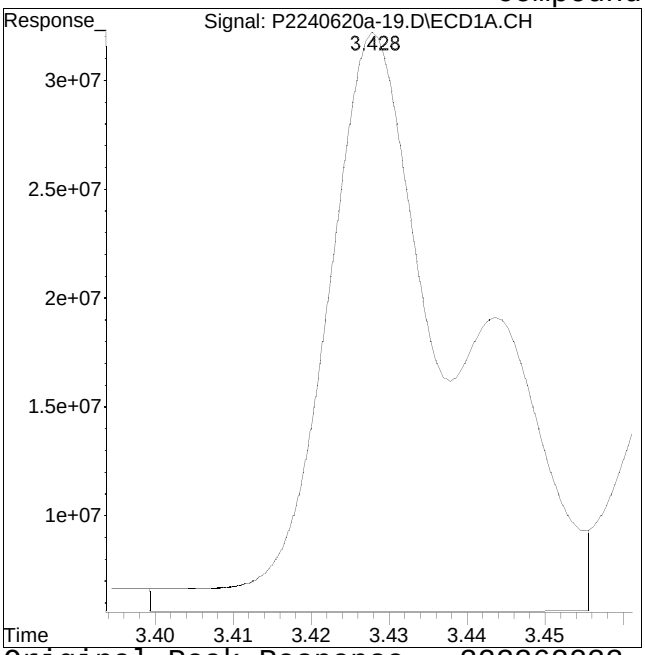


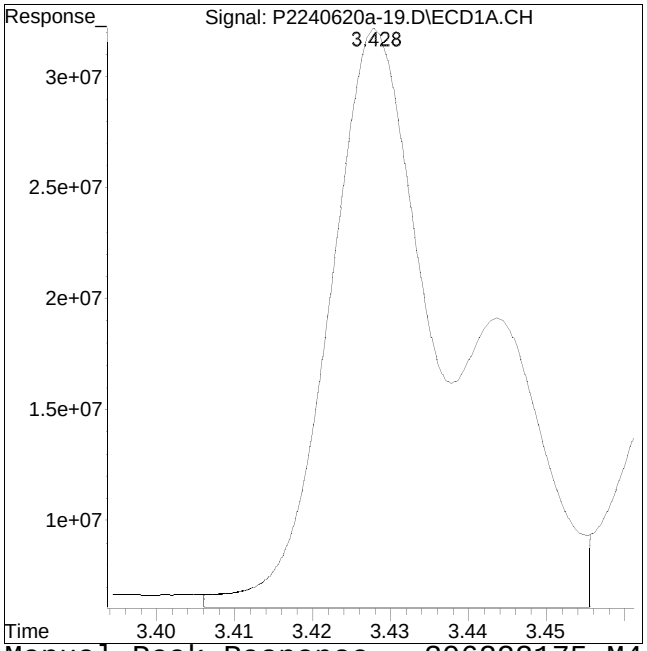
Original Peak Response = 502453782 Manual Peak Response = 425453901 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-19.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:13 Instrument : Pest 2
Sample : WG1936802-3,42,, 804 Quant Date : 6/20/2024 11:12 am

Compound #13: 1260-5





Original Peak Response = 323362233 Manual Peak Response = 306223175 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:58
Operator : pest2:meo
Sample : WG1936802-4,42,, ms
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:39 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.161	1.229	321.0E6	239.9E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	105.09%	
Standard Area 1 : #2 = 224448888				Recovery =	106.88%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.445	1.602	342.7E6	222.1E6	20.361	18.791
Spiked Amount	20.000	Range 30 - 150		Recovery =	101.81%	93.95%
3) s Decachlorobi	4.012	4.525	211.0E6	151.3E6	19.406M4	27.182
Spiked Amount	20.000	Range 30 - 150		Recovery =	97.03%	135.91%
Target Compounds						
4) l1 1016-1	1.583	1.803	73114332	57774100	253.740	286.156
5) l1 1016-2	1.725	1.973	154.0E6	123.6E6	243.818	278.628
6) l1 1016-3	1.914	2.173	336.2E6	231.1E6	258.918	260.528
7) l1 1016-4	1.968	2.233	136.6E6	98852562	263.887	301.307
8) l1 1016-5	2.138	2.443	146.9E6	86138755	255.705	309.763
Sum 1016-1			846.8E6	597.4E6	1276.068	1436.382
Average 1016-1					255.214	287.276
9) l2 1260-1	2.680	3.051	191.5E6	150.3E6	231.014	290.256M4
10) l2 1260-2	2.810	3.153	299.2E6	173.7E6	239.521	293.060
11) l2 1260-3	3.124	3.545	173.0E6	142.3E6	222.890M2	309.765
12) l2 1260-4	3.280	3.674	393.8E6	272.8E6	236.801M2	295.354
13) l2 1260-5	3.428	3.875	295.5E6	201.9E6	253.533M1	318.818M3
Sum 1260-1			1353.1E6	941.0E6	1183.758	1507.253
Average 1260-1					236.752	301.451
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:58
Operator : pest2:meo
Sample : WG1936802-4,42,, ms
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:39 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

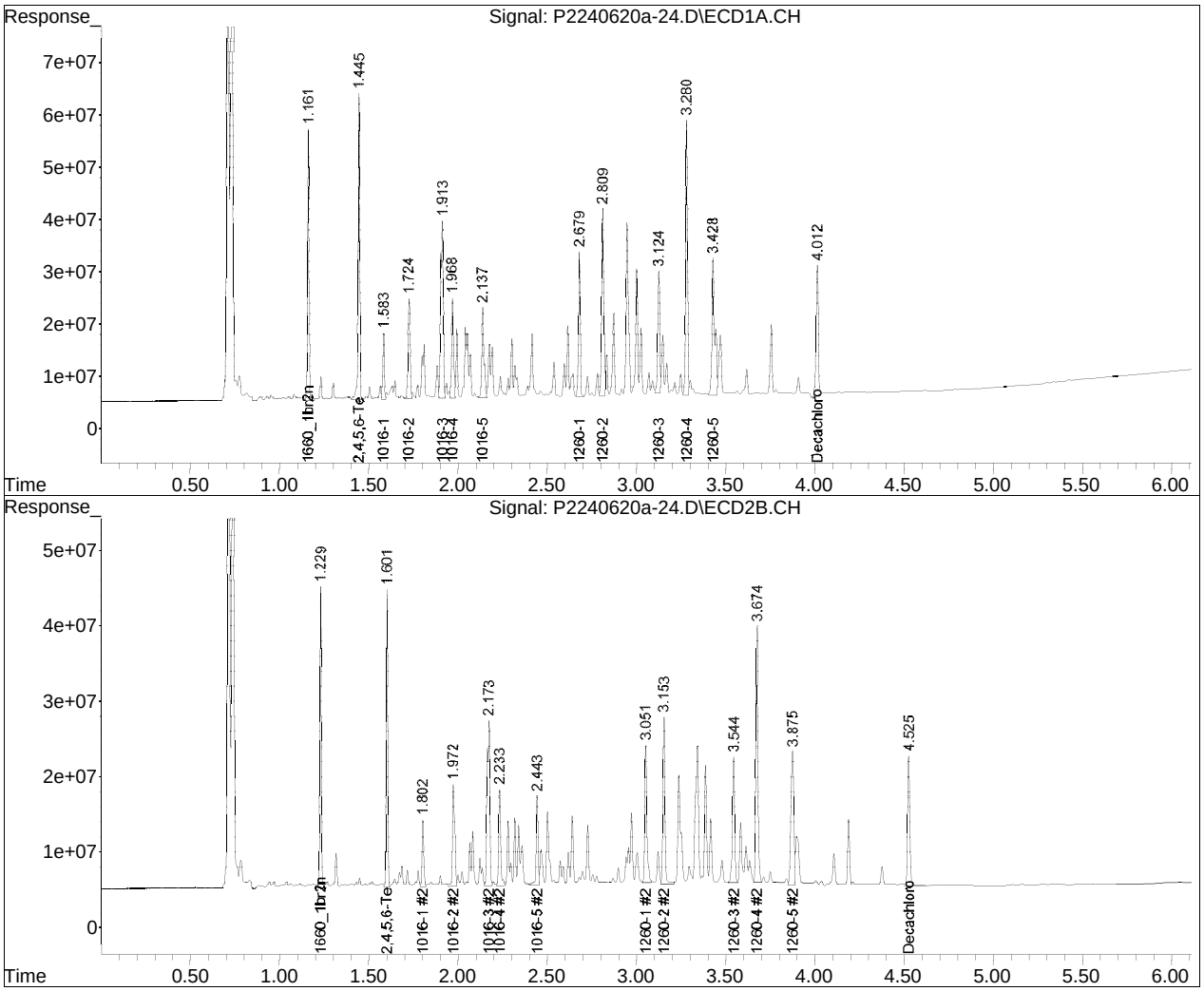
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240620a\P2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:58
Operator : pest2:meo
Sample : WG1936802-4,42,, ms
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:39 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

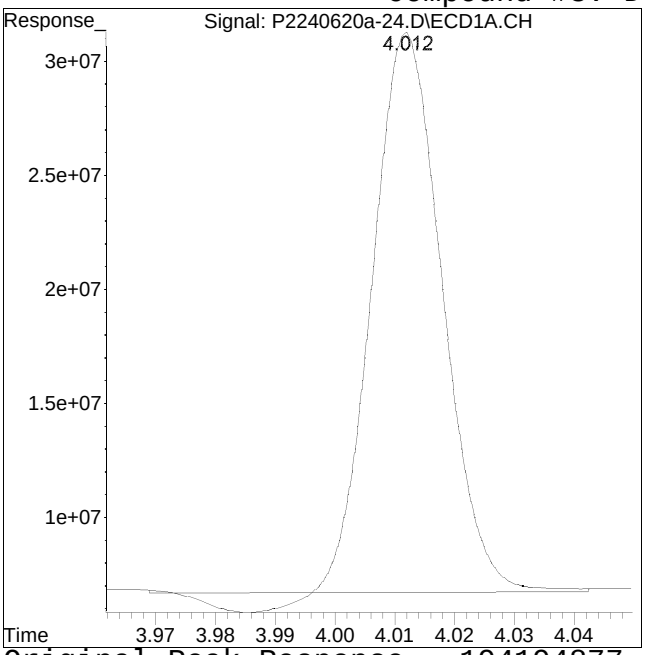
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

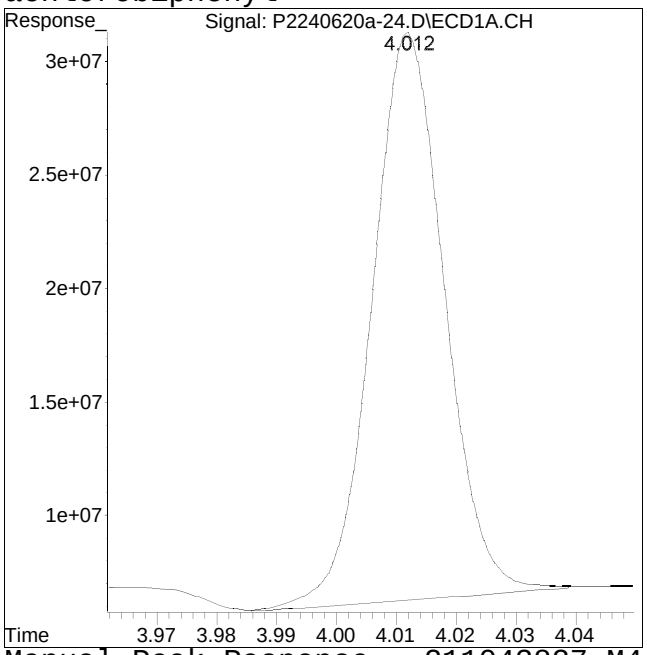


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-24.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:58 Instrument : Pest 2
Sample : WG1936802-4,42,, ms Quant Date : 6/20/2024 11:41 am

Compound #3: Decachlorobiphenyl



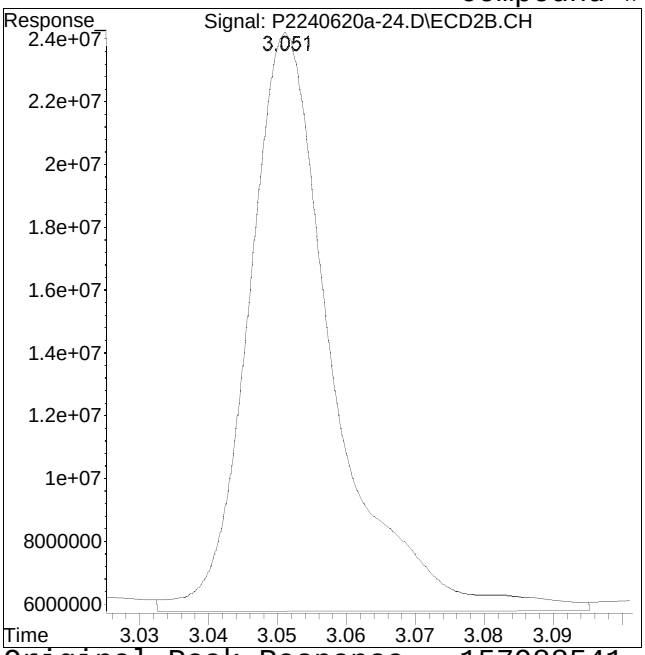


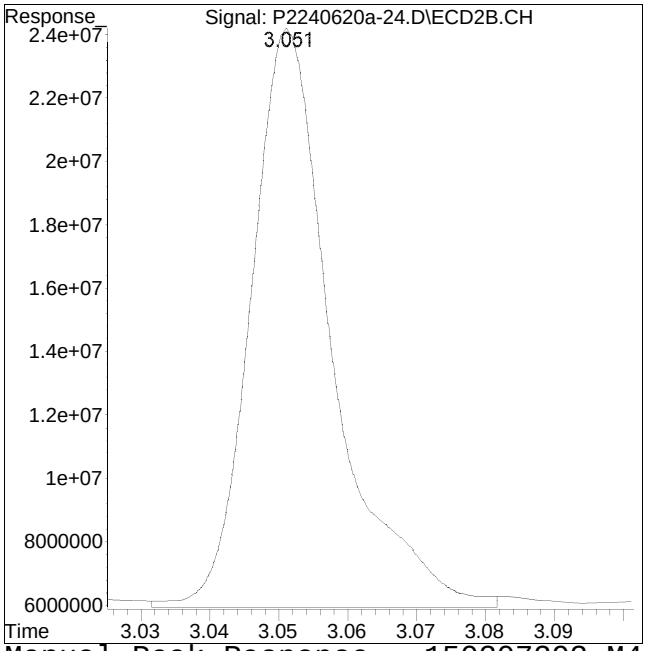
Original Peak Response = 194194877 Manual Peak Response = 211043827 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-24.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:58 Instrument : Pest 2
Sample : WG1936802-4,42,, ms Quant Date : 6/20/2024 11:41 am

Compound #60: 1260-1 #2



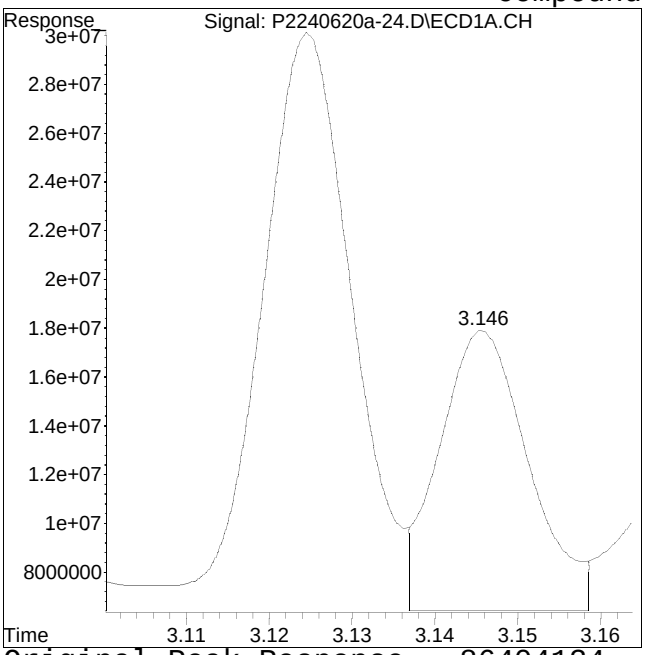


Original Peak Response = 157988541 Manual Peak Response = 150307293 M4
M4 = Poor automated baseline construction.

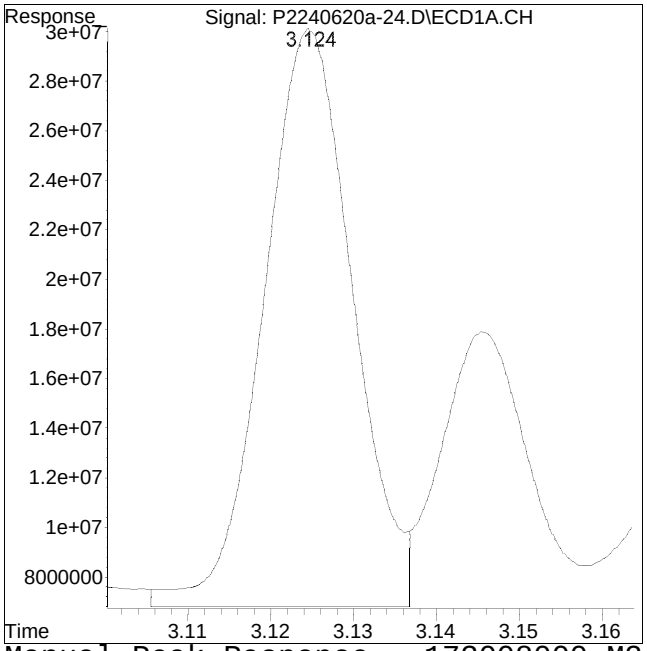
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-24.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:58 Instrument : Pest 2
Sample : WG1936802-4,42,, ms Quant Date : 6/20/2024 11:41 am

Compound #11: 1260-3



Original Peak Response = 86404134



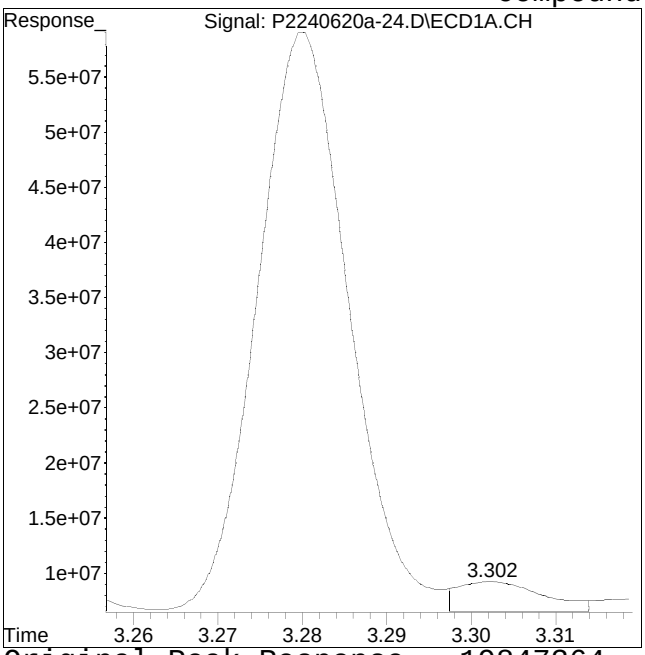
Manual Peak Response = 173008000 M2

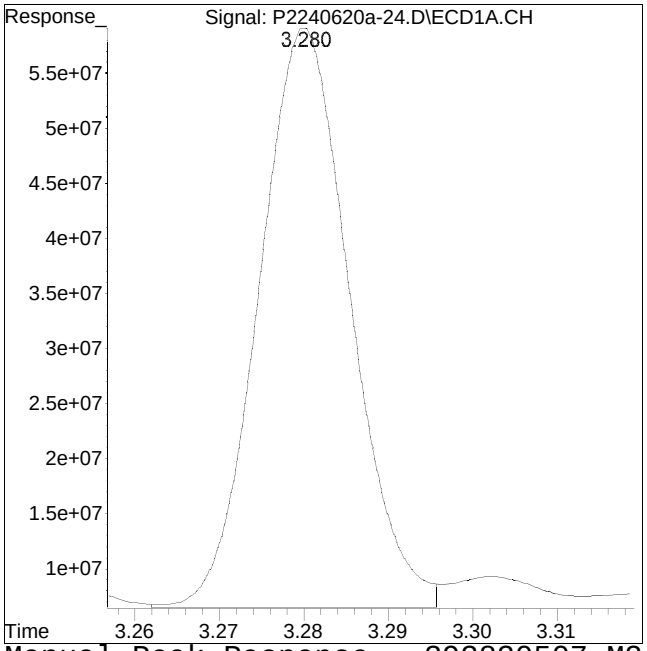
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-24.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:58 Instrument : Pest 2
Sample : WG1936802-4,42,, ms Quant Date : 6/20/2024 11:41 am

Compound #12: 1260-4



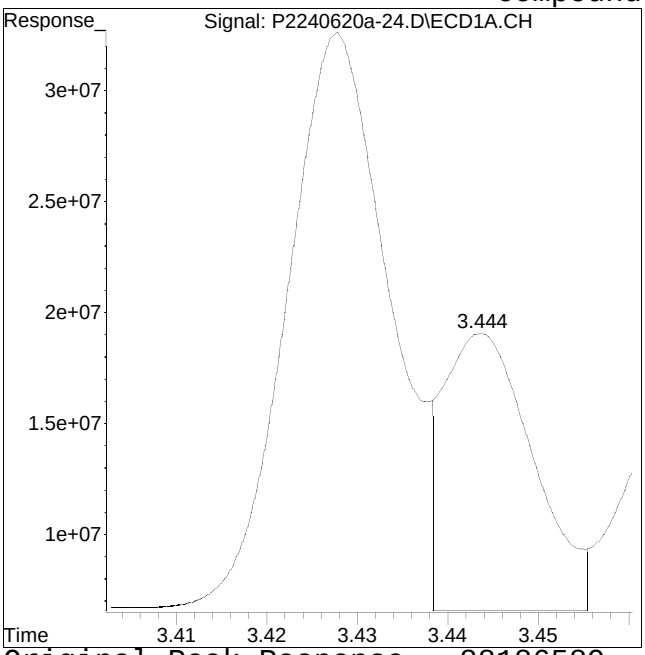


Original Peak Response = 19847364 Manual Peak Response = 393830507 M2
M2 = Peak not found by automatic integration algorithm.

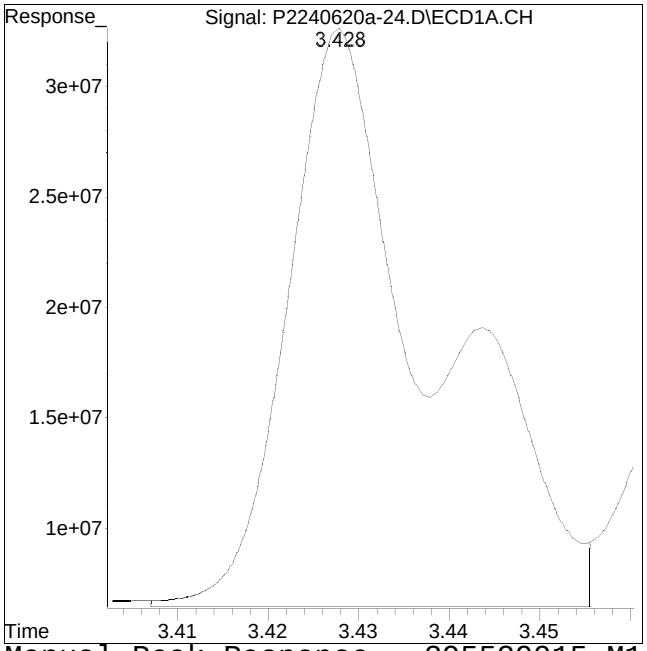
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-24.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:58 Instrument : Pest 2
Sample : WG1936802-4,42,, ms Quant Date : 6/20/2024 11:41 am

Compound #13: 1260-5



Original Peak Response = 88186589



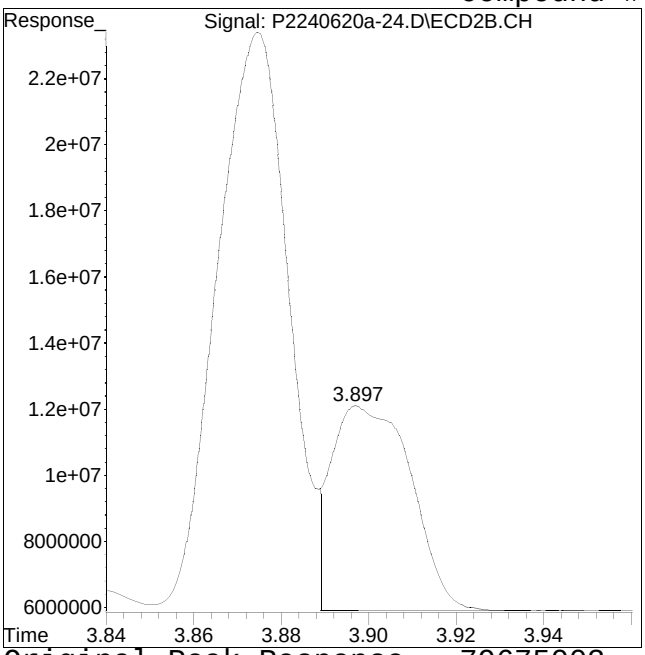
Manual Peak Response = 295529915 M1

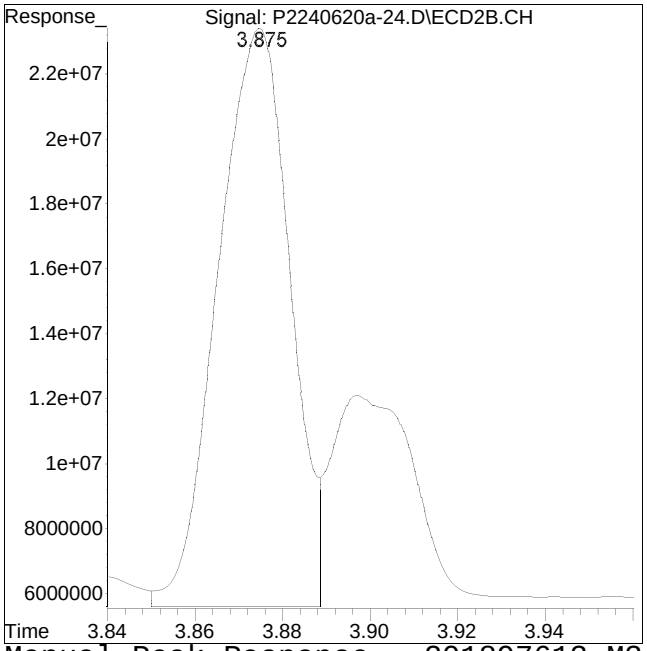
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-24.D Operator : pest2:meo
Date Inj'd : 6/20/2024 10:58 Instrument : Pest 2
Sample : WG1936802-4,42,, ms Quant Date : 6/20/2024 11:41 am

Compound #64: 1260-5 #2





Original Peak Response = 79675003 Manual Peak Response = 201897613 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:06
Operator : pest2:meo
Sample : WG1936802-5,42,, msd
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:42 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.161	1.230	355.7E6	251.0E6	25.000	25.000
Standard Area 1 : #1 = 305460179				Recovery =	116.46%	
Standard Area 1 : #2 = 224448888				Recovery =	111.83%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.445	1.603	363.4E6	229.7E6	19.484	18.579
Spiked Amount 20.000	Range 30 - 150		Recovery =	97.42%	92.90%	
3) s Decachlorobi	4.011	4.526	231.6E6	163.5E6	19.217	28.067
Spiked Amount 20.000	Range 30 - 150		Recovery =	96.08%	140.34%	
Target Compounds						
4) l1 1016-1	1.582	1.803	74614280	59176499	233.658M4	280.128
5) l1 1016-2	1.724	1.974	175.7E6	127.9E6	251.089M4	275.660
6) l1 1016-3	1.913	2.173	351.9E6	245.2E6	244.534M4	264.152
7) l1 1016-4	1.967	2.233	150.0E6	101.8E6	261.488M4	296.456
8) l1 1016-5	2.136	2.443	153.9E6	88317681	241.777M4	303.541
Sum 1016-1			906.2E6	622.3E6	1232.547	1419.938
Average 1016-1					246.509	283.988
9) l2 1260-1	2.679	3.051	219.4E6	159.9E6	238.825	295.199M4
10) l2 1260-2	2.808	3.153	325.7E6	185.5E6	235.239M4	299.236
11) l2 1260-3	3.123	3.544	182.1E6	152.7E6	211.716M2	317.525
12) l2 1260-4	3.279	3.674	433.1E6	294.8E6	234.959M4	305.083
13) l2 1260-5	3.426	3.874	314.0E6	214.9E6	243.100M4	324.298M3
Sum 1260-1			1474.3E6	1007.9E6	1163.838	1541.341
Average 1260-1					232.768	308.268
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:06
Operator : pest2:meo
Sample : WG1936802-5,42,, msd
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:42 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240620a\P2240620a-04.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

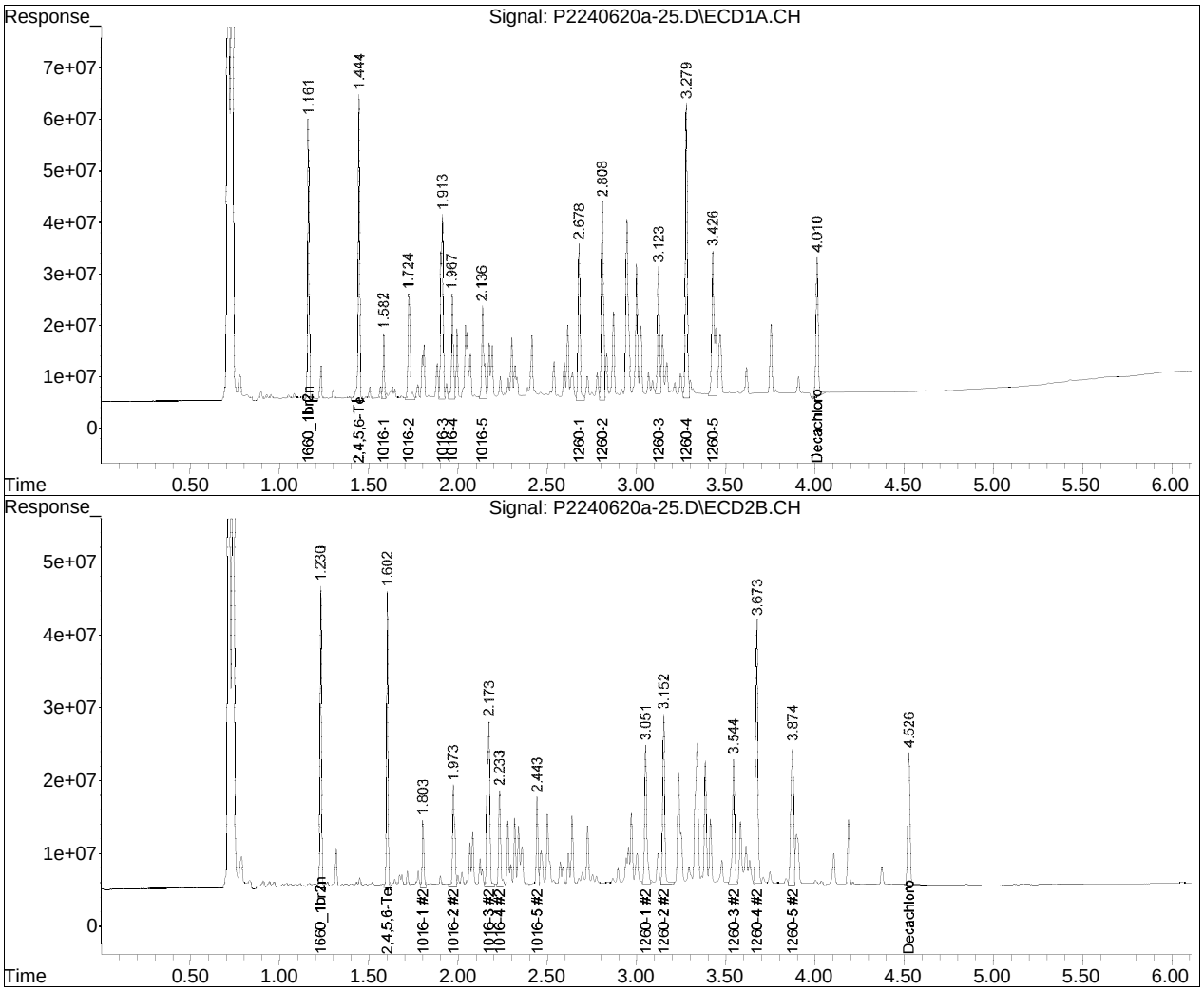
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240620a\P2240620a-04.D•

Data Path : I:\PCB\Pest2\2024\240620a\
Data File : P2240620a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 11:06
Operator : pest2:meo
Sample : WG1936802-5,42,, msd
Misc : wg1936878,WG1936802,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 20 11:41:42 2024
Quant Method : I:\PCB\Pest2\2024\240620A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

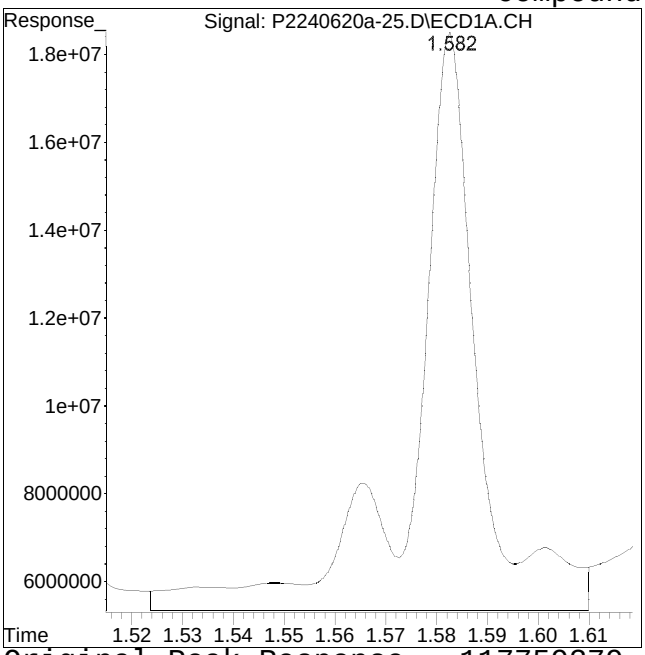
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



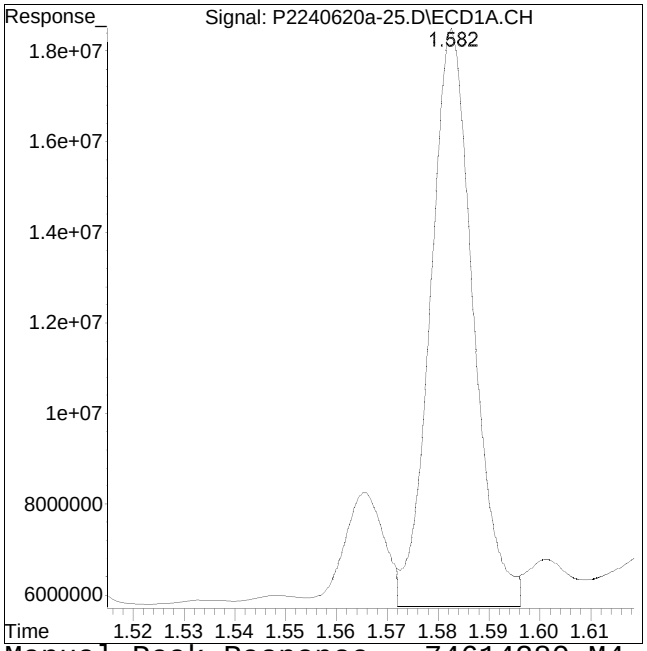
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #4: 1016-1



Original Peak Response = 117759379



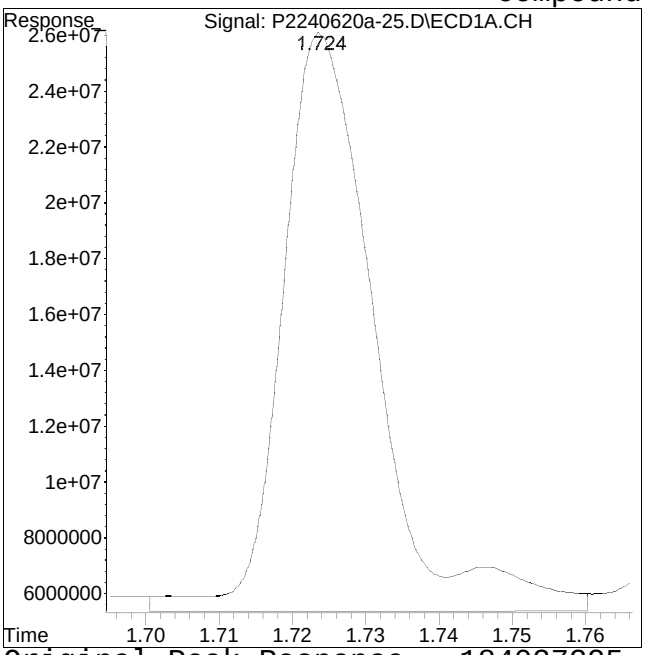
Manual Peak Response = 74614280 M4

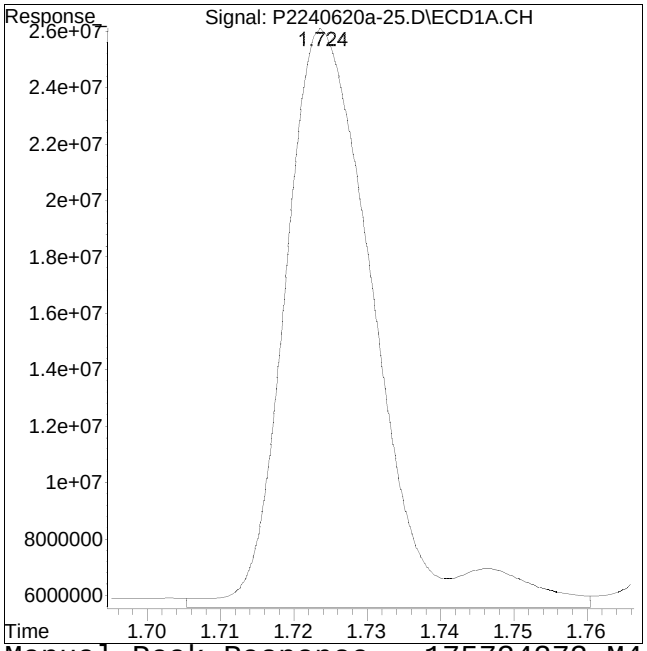
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #5: 1016-2



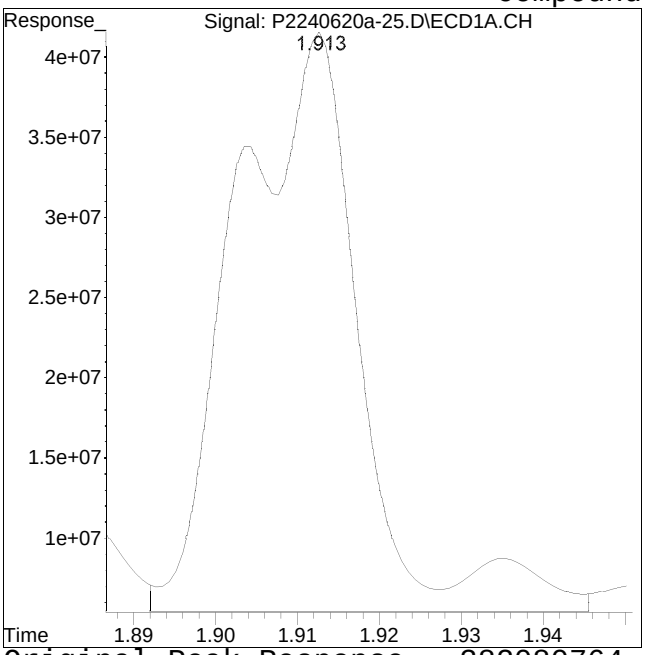


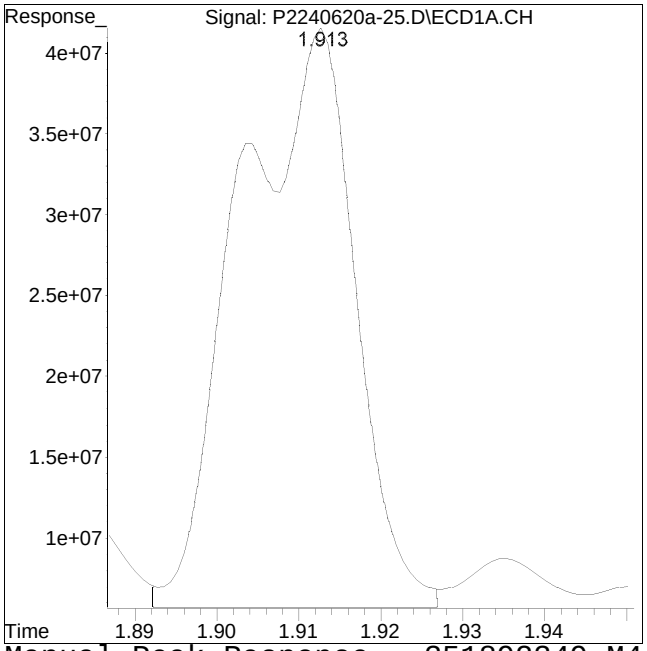
Original Peak Response = 184027325 Manual Peak Response = 175734273 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #6: 1016-3



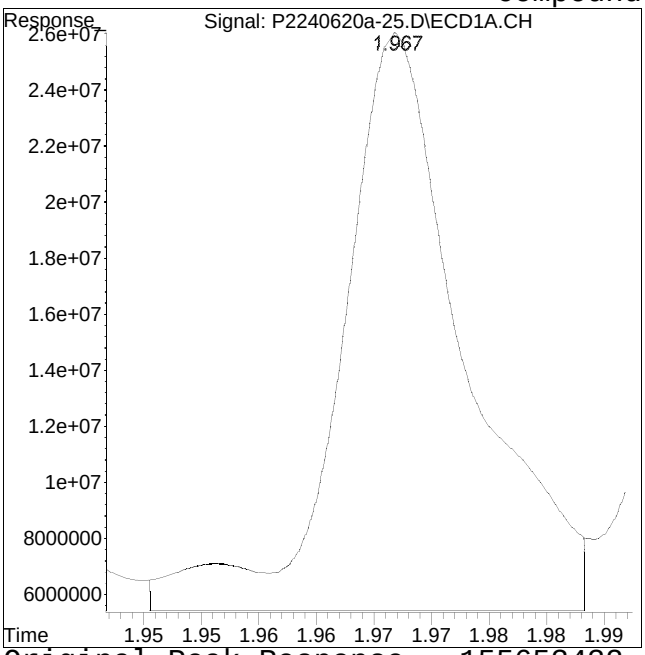


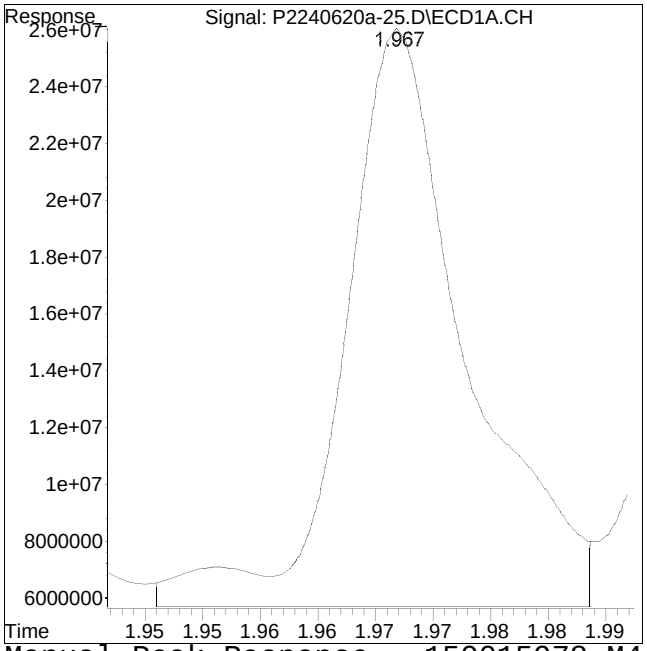
Original Peak Response = 382080764 Manual Peak Response = 351892349 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #7: 1016-4



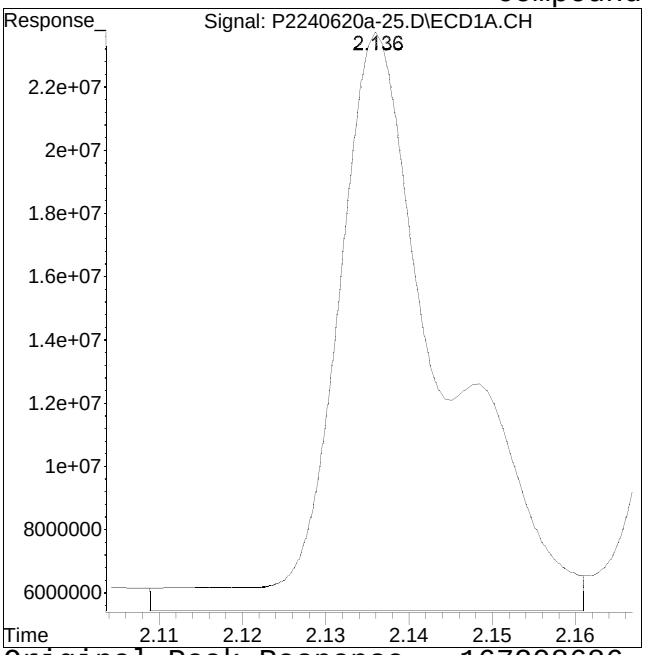


Original Peak Response = 155653432 Manual Peak Response = 150015978 M4
M4 = Poor automated baseline construction.

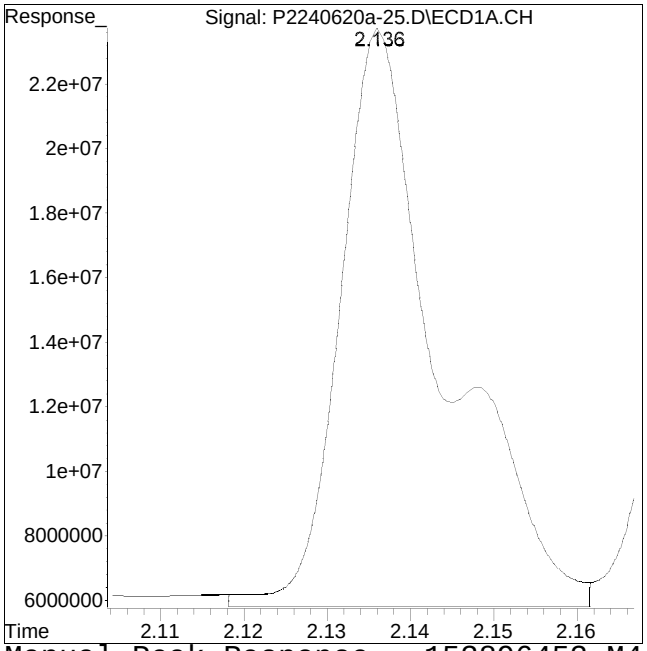
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #8: 1016-5



Original Peak Response = 167208686



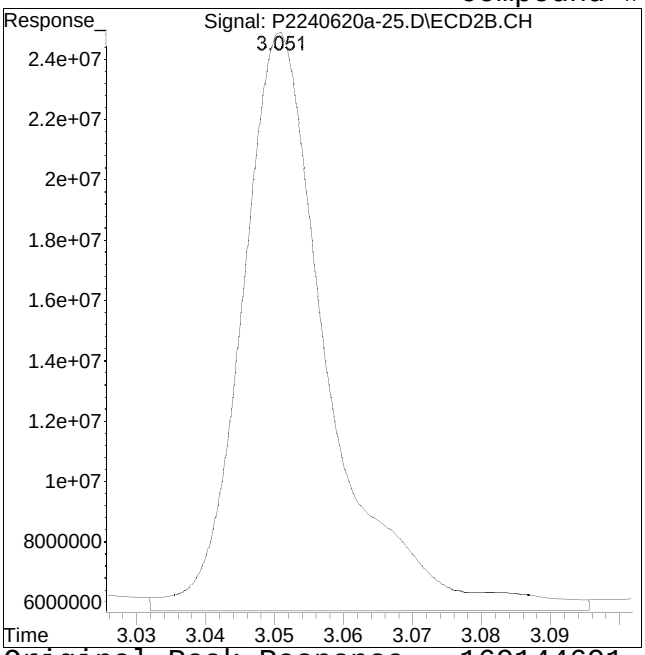
Manual Peak Response = 153896453 M4

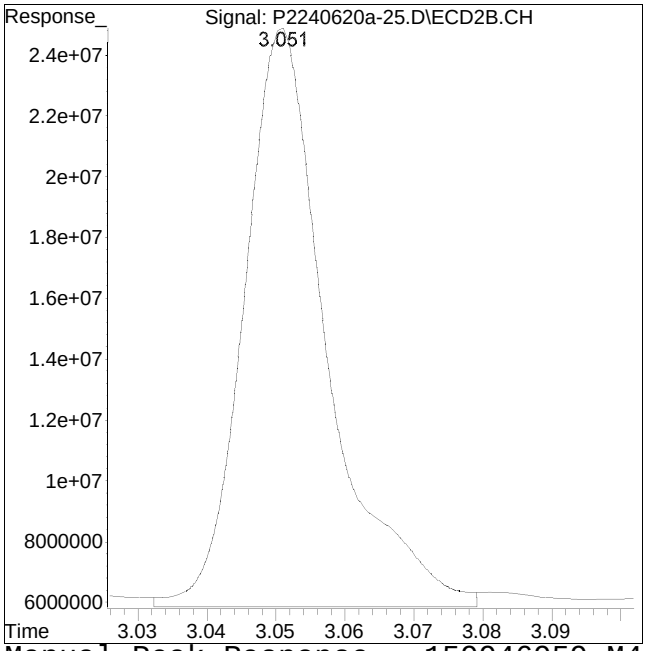
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #60: 1260-1 #2



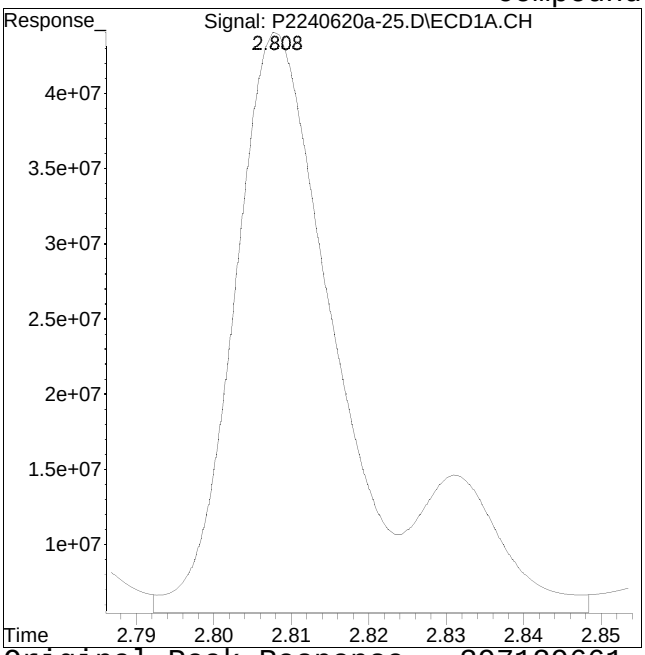


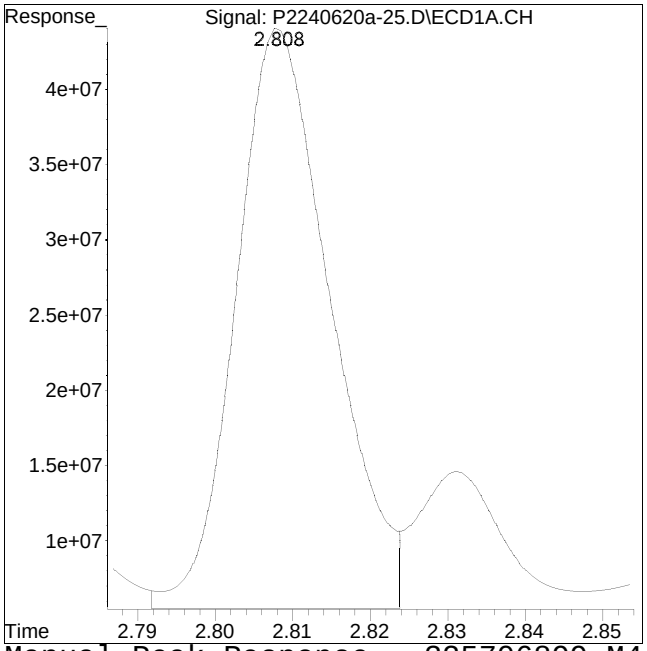
Original Peak Response = 169144691 Manual Peak Response = 159946959 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #10: 1260-2



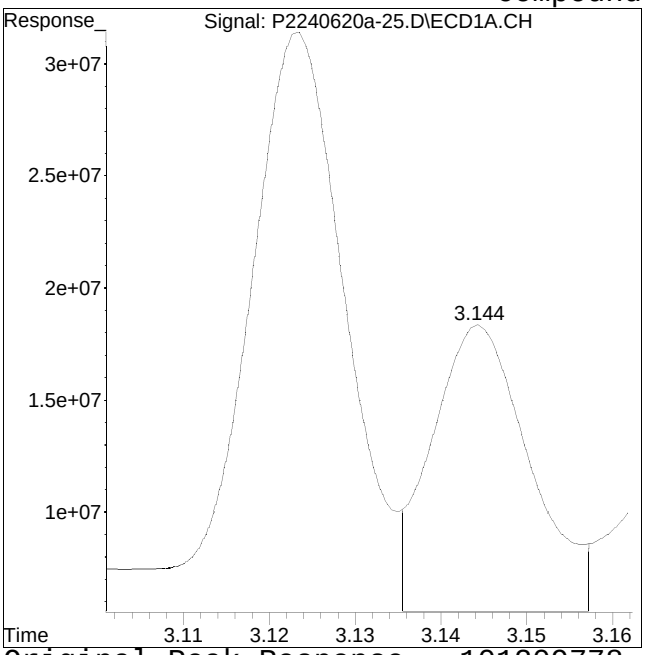


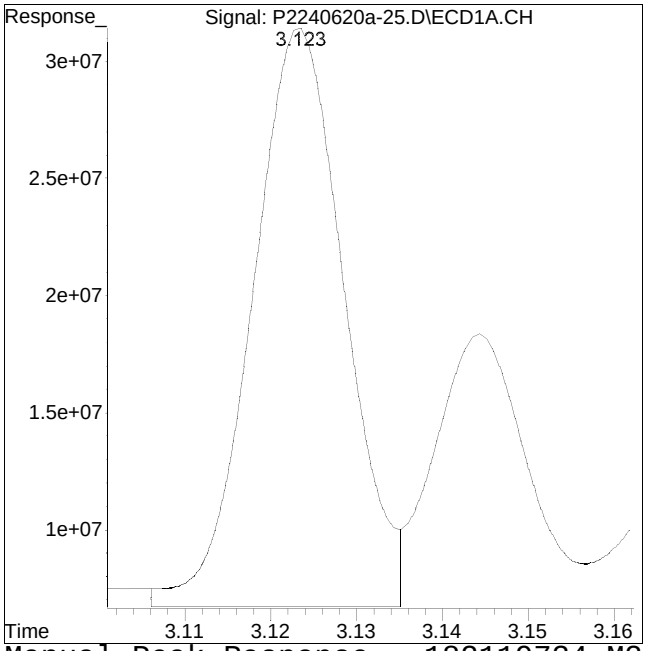
Original Peak Response = 397129661 Manual Peak Response = 325706899 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #11: 1260-3



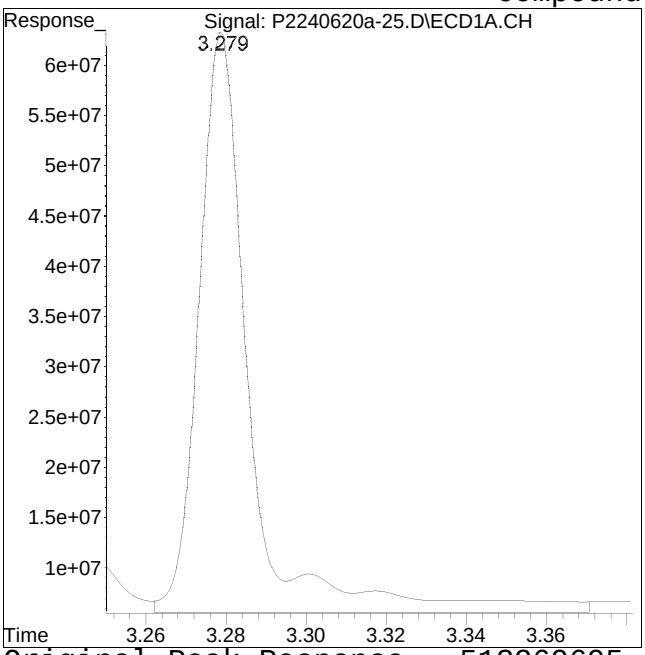


Original Peak Response = 101209778 Manual Peak Response = 182119734 M2
M2 = Peak not found by automatic integration algorithm.

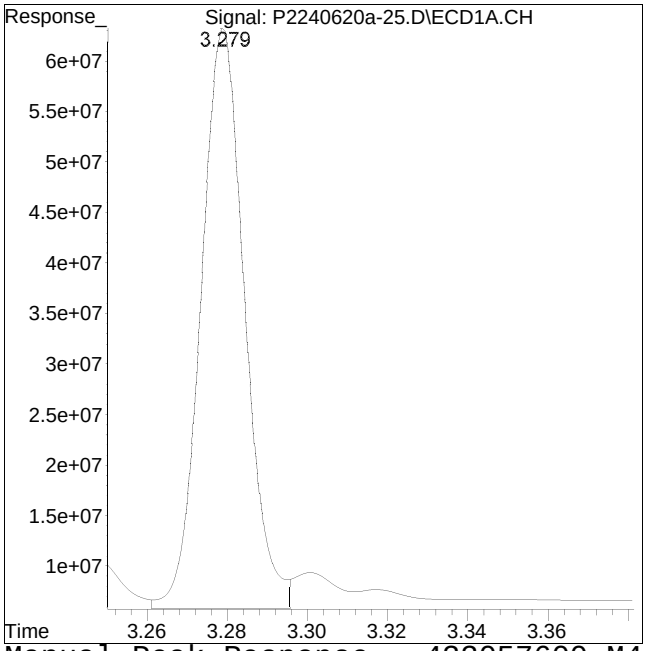
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #12: 1260-4



Original Peak Response = 513269695



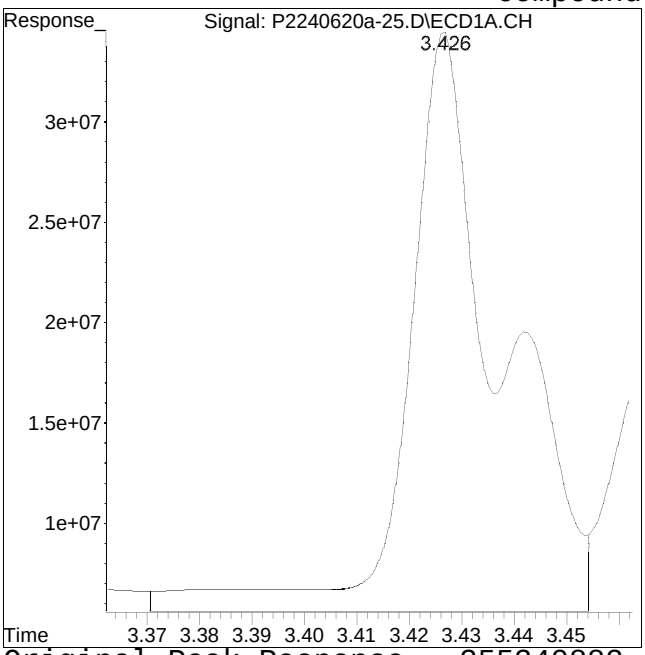
Manual Peak Response = 433057600 M4

M4 = Poor automated baseline construction.

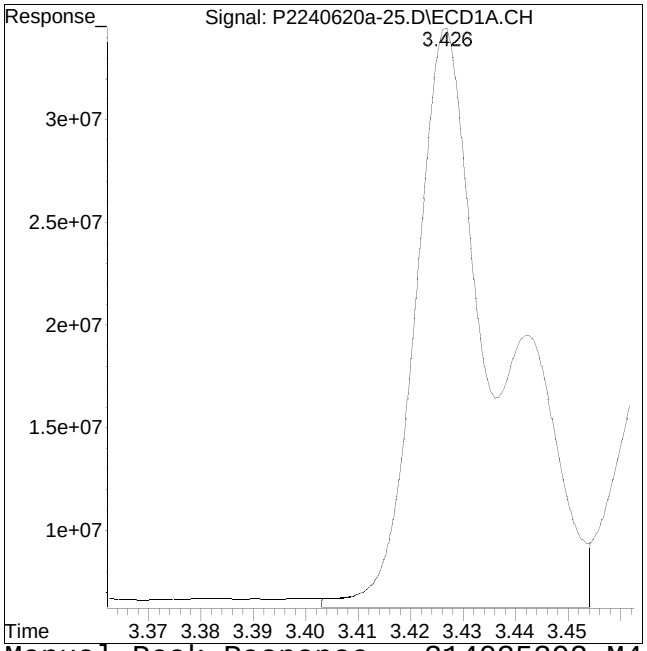
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #13: 1260-5



Original Peak Response = 355340882



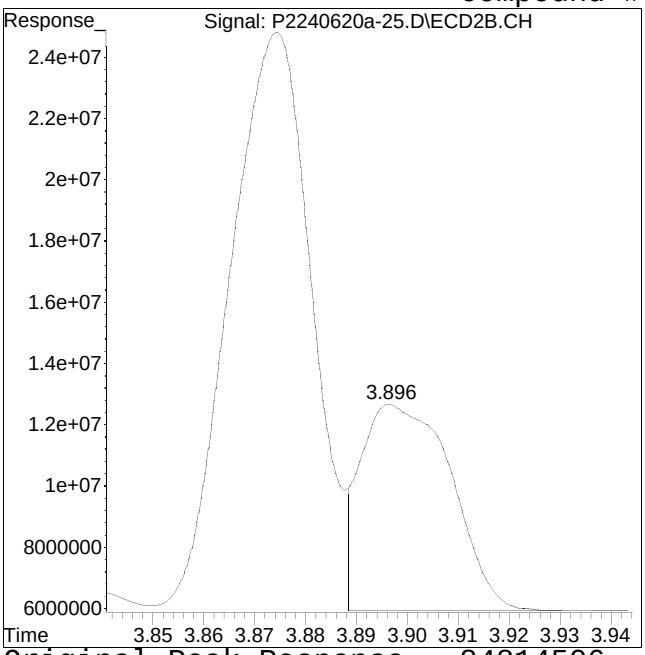
Manual Peak Response = 314035392 M4

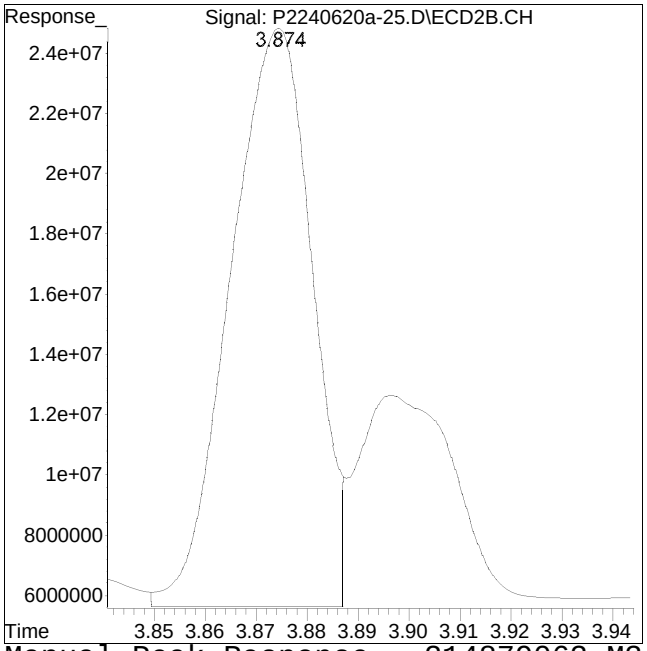
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240620a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240620a-25.D Operator : pest2:meo
Date Inj'd : 6/20/2024 11:06 Instrument : Pest 2
Sample : WG1936802-5,42,, msd Quant Date : 6/20/2024 11:41 am

Compound #64: 1260-5 #2





Original Peak Response = 84814506 Manual Peak Response = 214879063 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **05/06/24**
Run: **I**

Method
GC: lvi

Seq: WG1918477
IS: pp11528
ICAL21102

Vial	Data File	Sample	CCAL	notes	initials
1	P2240506i-01	blank			
2	P2240506i-02	+1660 ccal pp11545 lvi icv			
3	P2240506i-03	il44268,42e,,pp 11454			RMP 5/7
4	P2240506i-04	il43262,42e,,pp 11457			RMP 5/7
5	P2240506i-05	il41248,42e,,pp 11452			RMP 5/7
6	P2240506i-06	il42154,42e,,pp 11449			RMP 5/7
7	P2240506i-07	il11660,42e,,pp 11447	Interference		
8	P2240506i-08	il21660,42e,,pp 11447			RMP 5/7
9	P2240506i-09	il31660,42e,,pp 11447			RMP 5/7
10	P2240506i-10	il41660,42e,,pp 11447			RMP 5/7
11	P2240506i-11	il51660,42e,,pp 11447			RMP 5/7
12	P2240506i-12	il61660,42e,,pp 11447			RMP 5/7
13	P2240506i-13	cicv4268,42,,pp 11468			RMP 5/7
14	P2240506i-14	cicv3262,42,,pp 11467			RMP 5/7
15	P2240506i-15	cicv1248,42,,pp 11461			RMP 5/7
16	P2240506i-16	cicv2154,42,,pp 11460			RMP 5/7
17	P2240506i-17	cicv1660,42,,pp 11459	RR L1	V to F17 rmp	
18	P2240506i-18	blank			
19	P2240506i-19	il11660,42e,,pp 11447			RMP 5/7
20	P2240506i-20	cicv1660,42,,pp 11459		V to F20 rmp	RMP 5/7

Dep.: PCB
Inst: Pest_2
Date: **06/20/24**
Run: a

Method
GC: PCB

Seq: wg1936878
IS: pp11530
LVI

Vial	Data File	Sample	CCAL	notes	screen	initials
1	P2240620a-01	blank				
2	P2240620a-02	+1660 pp11597 lvi ccv				
3	P2240620a-03	prime				
4	P2240620a-04	+1660 pp11597 lvi ccv	20% 6:10 878-1akm			meo 6/20
5	P2240620a-05	+2154 pp11619 lvi icv	p			
6	P2240620a-06	+1248 pp11620 lvi icv	p			
7	P2240620a-07	+4268 pp11468 lvi icv	f			
8	P2240620a-08	blank				
9	P2240620a-09	L2433239-03,42,,			meo	meo 6/20
10	P2240620a-10	L2433525-01,42,,		5x hit 42		
11	P2240620a-11	L2433525-02,42,,				meo 6/20
12	P2240620a-12	L2433525-06,42,,				meo 6/20
13	P2240620a-13	L2433525-09,42,,	IS high B; report A			meo 6/20
14	P2240620a-14	L2433525-13,42,,				meo 6/20
15	P2240620a-15	L2433525-14,42,,		V to F15 akm		meo 6/20
16	P2240620a-16	blank				
17	P2240620a-17	WG1936804-1,42,, 802				meo 6/20
18	P2240620a-18	WG1936804-2,42,, 802				meo 6/20
19	P2240620a-19	WG1936804-3,42,, 802				meo 6/20
20	P2240620a-20	L2433375-01,42,,				meo 6/20
21	P2240620a-21	L2433375-02,42,,				meo 6/20
22	P2240620a-22	L2433375-03,42,,				meo 6/20
23	P2240620a-23	L2433375-04,42,, p				meo 6/20
24	P2240620a-24	WG1936802-4,42,, ms				meo 6/20
25	P2240620a-25	WG1936802-5,42,, msd				meo 6/20
26	P2240620a-26	L2433375-05,42,,				meo 6/20
27	P2240620a-27	L2433375-06,42,,				meo 6/20
28	P2240620a-28	L2433375-07,42,,				meo 6/20
29	P2240620a-29	L2433375-08,42,,				meo 6/20
30	P2240620a-30	L2433247-02,42,,		V to F30 meo		meo 6/20
31	P2240620a-31	L2434663-11,42,,,R3A				meo 6/20
32	P2240620a-32	WG1936858-1,42,,				meo 6/20
33	P2240620a-33	WG1936858-2,42,,				meo 6/20
34	P2240620a-34	WG1936858-3,42,,		V to F34 mhg		meo 6/20

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 02:26 pm

Work Group: WG1936802 for Department: 2 Organic Preparation

Created: 20-JUN-24 Due: Operator: HEO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-01	EB_06132024	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
L2433375-02	DUP_06132024	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
L2433375-03	PZ-5	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
L2433375-04	MW-5D	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
L2433375-05	MW-12S	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
L2433375-06	MW-12D	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
L2433375-07	MW-4S	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
L2433375-08	MW-4D2	S	NYTCL-8082-LVI	WATER	DONE	U	0613	0620	S0	Amber-A.120
WG1936802-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1936802-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1936802-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1936802-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1936802-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1936802-3	WG1936802-2
WG1936802-4	L2433375-04
WG1936802-5	L2433375-04

ORGANIC ELN REPORT

Workgroup: WG1936802

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: Pesticide/PCB **Lot #:** PP11616ae,11/22/2024,2c,5,1
Spike Type: PCB **Lot #:** PP1143-D(7-2-24)
Spike Verify by: HEO
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI504

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI504

Additional Reagents/Stds

H2SO4	2024030587

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI504

Additional Reagents/Stds

Copper	2401cpg001

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2433375-01 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
L2433375-02 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
L2433375-03 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
L2433375-04 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1

Reported: 20-JUN-24 02:26 PM

ORGANIC ELN REPORT

Workgroup: WG1936802

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433375-05 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
L2433375-06 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
L2433375-07 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
L2433375-08 SAMP	06/20/24 02:59	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
WG1936802-1 BLANK	06/20/24 02:59 **WG1936804**	Henry Otoo	140	>5,<9	.1		06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
WG1936802-2 LCS	06/20/24 02:59 **WG1936804**	Henry Otoo	140	>5,<9	.1	.1	06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
WG1936802-3 LCSD	06/20/24 02:59 **WG1936804**	Henry Otoo	140	>5,<9	.1	.1	06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1
WG1936802-4 MS	06/20/24 02:59	Henry Otoo	140	>5,<9	.1	.1	06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1

Reported: 20-JUN-24 02:26 PM

ORGANIC ELN REPORT

Workgroup: WG1936802

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1936802-5 MSD	06/20/24 02:59	Henry Otoo	140	>5,<9	.1	.1	06/20/24 07:31	Rabbi Kyei-Baffour	5	D / A / #1

Reported: 20-JUN-24 02:26 PM

ORGANIC ELN REPORT

Workgroup: WG1936802

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2433375-01 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
L2433375-02 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
L2433375-03 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
L2433375-04 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
L2433375-05 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
L2433375-06 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
L2433375-07 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
L2433375-08 SAMP	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
WG1936802-1 BLANK	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
WG1936802-2 LCS	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
WG1936802-3 LCSD	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie

Reported: 20-JUN-24 02:26 PM

ORGANIC ELN REPORT

Workgroup: WG1936802

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1936802-4 MS	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie
WG1936802-5 MSD	06/20/24 07:39	Priscilla Sarkodie	5	1	06/20/24 09:06	Priscilla Sarkodie

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433375
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
EB_06132024 (L2433375-01)	77	89	59	61			0
DUP_06132024 (L2433375-02)	69	78	92	88			0
PZ-5 (L2433375-03)	71	79	90	86			0
MW-5D (L2433375-04)	77	85	93	89			0
MW-12S (L2433375-05)	77	91	95	96			0
MW-12D (L2433375-06)	80	90	96	97			0
MW-4S (L2433375-07)	75	87	85	86			0
MW-4D2 (L2433375-08)	78	92	82	95			0
WG1936774-1BLANK	77	90	98	96			0
WG1936774-2LCS	74	87	94	95			0
WG1936774-3LCSD	70	80	97	93			0
MW-5DMS	66	80	77	84			0
MW-5DMSD	72	85	89	89			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8081

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1936774-2 **Analysis Date** : 06/20/24 08:07	**File ID**	: 10240620a-08
LCSD Sample ID	: WG1936774-3 **Analysis Date** : 06/20/24 08:18	**File ID**	: 10240620a-09

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.280	78	0.357	0.279	78	0	30-150	20
Lindane	0.357	0.292	82	0.357	0.300	84	3	30-150	20
Alpha-BHC	0.357	0.302	85	0.357	0.308	86	2	30-150	20
Beta-BHC	0.357	0.311	87	0.357	0.315	88	1	30-150	20
Heptachlor	0.357	0.307	86	0.357	0.315	88	3	30-150	20
Aldrin	0.357	0.295	83	0.357	0.300	84	2	30-150	20
Heptachlor epoxide	0.357	0.303	85	0.357	0.315	88	4	30-150	20
Endrin	0.357	0.306	86	0.357	0.322	90	5	30-150	20
Endrin aldehyde	0.357	0.287	80	0.357	0.272	76	5	30-150	20
Endrin ketone	0.357	0.334	94	0.357	0.350	98	5	30-150	20
Dieldrin	0.357	0.331	93	0.357	0.348	97	5	30-150	20
4,4'-DDE	0.357	0.300	84	0.357	0.316	89	5	30-150	20
4,4'-DDD	0.357	0.327	92	0.357	0.346	97	6	30-150	20
4,4'-DDT	0.357	0.326	91	0.357	0.329	92	1	30-150	20
Endosulfan I	0.357	0.295	83	0.357	0.307	86	4	30-150	20
Endosulfan II	0.357	0.321	90	0.357	0.326	91	2	30-150	20
Endosulfan sulfate	0.357	0.305	85	0.357	0.311	87	2	30-150	20
Methoxychlor	0.357	0.392	110	0.357	0.419	117	6	30-150	20
cis-Chlordane	0.357	0.286	80	0.357	0.298	83	4	30-150	20
trans-Chlordane	0.357	0.335	94	0.357	0.350	98	4	30-150	20

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 09:02
Matrix Spike	: WG1936774-4	**MS Analysis Date**	: 06/20/24 09:13
Matrix Spike Dup	: WG1936774-5	**MSD Analysis Date**	: 06/20/24 09:24

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	0.357	0.268	75	0.357	0.281	79	5	30-150	30
Lindane	ND	0.357	0.277	78	0.357	0.288	81	4	30-150	30
Alpha-BHC	ND	0.357	0.285	80	0.357	0.300	84	5	30-150	30
Beta-BHC	ND	0.357	0.295	83	0.357	0.305	85	3	30-150	30
Heptachlor	ND	0.357	0.292	82	0.357	0.306	86	5	30-150	30
Aldrin	ND	0.357	0.274	77	0.357	0.292	82	6	30-150	30
Heptachlor epoxide	ND	0.357	0.281	79	0.357	0.296	83	5	30-150	30
Endrin	ND	0.357	0.286	80	0.357	0.303	85	6	30-150	30
Endrin aldehyde	ND	0.357	0.263	74	0.357	0.275	77	4	30-150	30
Endrin ketone	ND	0.357	0.311	87	0.357	0.334	94	7	30-150	30
Dieldrin	ND	0.357	0.307	86	0.357	0.328	92	7	30-150	30
4,4'-DDE	ND	0.357	0.274	77	0.357	0.296	83	8	30-150	30
4,4'-DDD	ND	0.357	0.301	84	0.357	0.322	90	7	30-150	30
4,4'-DDT	ND	0.357	0.298	83	0.357	0.318	89	6	30-150	30
Endosulfan I	ND	0.357	0.271	76	0.357	0.288	81	6	30-150	30
Endosulfan II	ND	0.357	0.298	83	0.357	0.318	89	6	30-150	30
Endosulfan sulfate	ND	0.357	0.286	80	0.357	0.307	86	7	30-150	30
Methoxychlor	ND	0.357	0.364	102	0.357	0.390	109	7	30-150	30
cis-Chlordane	ND	0.357	0.254	71	0.357	0.280	78	10	30-150	30
trans-Chlordane	ND	0.357	0.311	87	0.357	0.333	93	7	30-150	30

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1936774-1	**Lab File ID**	: 10240620a-07
Matrix	: WATER	**Extraction Date**	: 06/20/24
Analysis Date (1)	: 06/20/24 07:56	**Analysis Date (2)**	: 06/20/24 07:56
Instrument ID (1)	: PEST10	**Instrument ID (2)**	: PEST10

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1936774-2LCS	WG1936774-2	06/20/24 08:07	06/20/24 08:07
WG1936774-3LCSD	WG1936774-3	06/20/24 08:18	06/20/24 08:18
EB_06132024	L2433375-01	06/20/24 08:29	06/20/24 08:29
DUP_06132024	L2433375-02	06/20/24 08:40	06/20/24 08:40
PZ-5	L2433375-03	06/20/24 08:51	06/20/24 08:51
MW-5D	L2433375-04	06/20/24 09:02	06/20/24 09:02
MW-5DMS	WG1936774-4	06/20/24 09:13	06/20/24 09:13
MW-5DMSD	WG1936774-5	06/20/24 09:24	06/20/24 09:24
MW-12S	L2433375-05	06/20/24 09:35	06/20/24 09:35
MW-12D	L2433375-06	06/20/24 09:46	06/20/24 09:46
MW-4S	L2433375-07	06/20/24 09:57	06/20/24 09:57
MW-4D2	L2433375-08	06/20/24 10:09	06/20/24 10:09

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST10	**Initial Calib. Date(s)**	: 05/02/24 05/02/24

Client ID	Lab ID	Date/Time Analyzed
R1827172-1 PEM	R1827172-1	05/02/24 15:58
Pesticides L1 (0.5ug/L)	R1827172-2	05/02/24 16:08
Pesticides L2 (1.0ug/L)	R1827172-3	05/02/24 16:20
Pesticides L3 (2.0ug/L)	R1827172-4	05/02/24 16:31
Pesticides L4 (3.0ug/L)	R1827172-5	05/02/24 16:42
Pesticides L5 (4.0ug/L)	R1827172-6	05/02/24 16:53
Pesticides L7 (10.0ug/L)	R1827172-7	05/02/24 17:04
Pesticides L8 (50.0ug/L)	R1827172-8	05/02/24 17:14
Pesticides L9 (100ug/L)	R1827172-9	05/02/24 17:25
Pesticides L10 (200ug/L)	R1827172-10	05/02/24 17:36
Pesticides L11 (400ug/L)	R1827172-11	05/02/24 17:47
R1827172-12 ICV	R1827172-12	05/02/24 17:58
Chlordane L3 (10ug/L)	R1827172-13	05/02/24 18:09
Chlordane L4 (20ug/L)	R1827172-14	05/02/24 18:20
Chlordane L5 (100ug/L)	R1827172-15	05/02/24 18:31
Chlordane L7 (500ug/L)	R1827172-16	05/02/24 18:42
Chlordane L8 (1000ug/L)	R1827172-17	05/02/24 18:53
Chlordane L9 (2000ug/L)	R1827172-18	05/02/24 19:04
Chlordane L10 (5000ug/L)	R1827172-20	05/02/24 19:15
R1827172-19 ICV	R1827172-19	05/02/24 19:26
Toxaphene L3 (20.0ug/L)	R1827172-21	05/02/24 19:37
Toxaphene L4 (100ug/L)	R1827172-22	05/02/24 19:48
Toxaphene L7 (1000ug/L)	R1827172-23	05/02/24 20:00
Toxaphene L8 (2000ug/L)	R1827172-24	05/02/24 20:11
Toxaphene L9 (5000ug/L)	R1827172-26	05/02/24 20:22
R1827172-25 ICV	R1827172-25	05/02/24 20:33
R1843371-1 PEM	R1843371-1	06/20/24 06:31
WG1936891-1 CCAL	WG1936891-1	06/20/24 06:42
WG1936891-2 CCAL	WG1936891-2	06/20/24 06:53
WG1936891-3 CCAL	WG1936891-3	06/20/24 07:04
WG1936774-1 BLANK	WG1936774-1	06/20/24 07:56
WG1936774-2 LCS	WG1936774-2	06/20/24 08:07
WG1936774-3 LCSD	WG1936774-3	06/20/24 08:18
EB_06132024	L2433375-01	06/20/24 08:29
DUP_06132024	L2433375-02	06/20/24 08:40
PZ-5	L2433375-03	06/20/24 08:51
MW-5D	L2433375-04	06/20/24 09:02
MW-5D MS	WG1936774-4	06/20/24 09:13
MW-5D MSD	WG1936774-5	06/20/24 09:24
MW-12S	L2433375-05	06/20/24 09:35
MW-12D	L2433375-06	06/20/24 09:46
MW-4S	L2433375-07	06/20/24 09:57

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST10	**Initial Calib. Date(s)**	: 05/02/24 05/02/24

Client ID	Lab ID	Date/Time Analyzed
MW-4D2	L2433375-08	06/20/24 10:09

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container / Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Created By: Jason Hebert
File: PM14021-1
Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 08:29
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-10	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 08:40
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-11	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 08:51
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-12	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:02
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-13	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:35
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-16	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:46
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-17	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:57
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-18	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:09
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-19	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936774-1	**Date Collected**	: NA
Client ID	: WG1936774-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 07:56
Sample Matrix	: WATER	**Date Extracted**	: 06/20/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240620a-07	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:29
Operator : PEST10:mmg
Sample : L2433375-01,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.378	539.5E6	146.7E6	25.000	25.000
	Standard Area 1 : #1 = 464953126				Recovery =	116.04%	
	Standard Area 1 : #2 = 137931823				Recovery =	106.36%	
28) i	1-br-2-nb_Ch	1.262	1.378	539.5E6	146.7E6	25.000	25.000
33) i	1-br-2-nb_To	1.262	1.378	539.5E6	146.7E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.599	1.859	897.4E6	245.0E6	38.316M3	44.410M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	76.63%	88.82%
27) s	Decachlorobi	6.229	6.948	521.8E6	131.3E6	29.539M3	30.605M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	59.08%	61.21%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:29
Operator : PEST10:mmg
Sample : L2433375-01,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

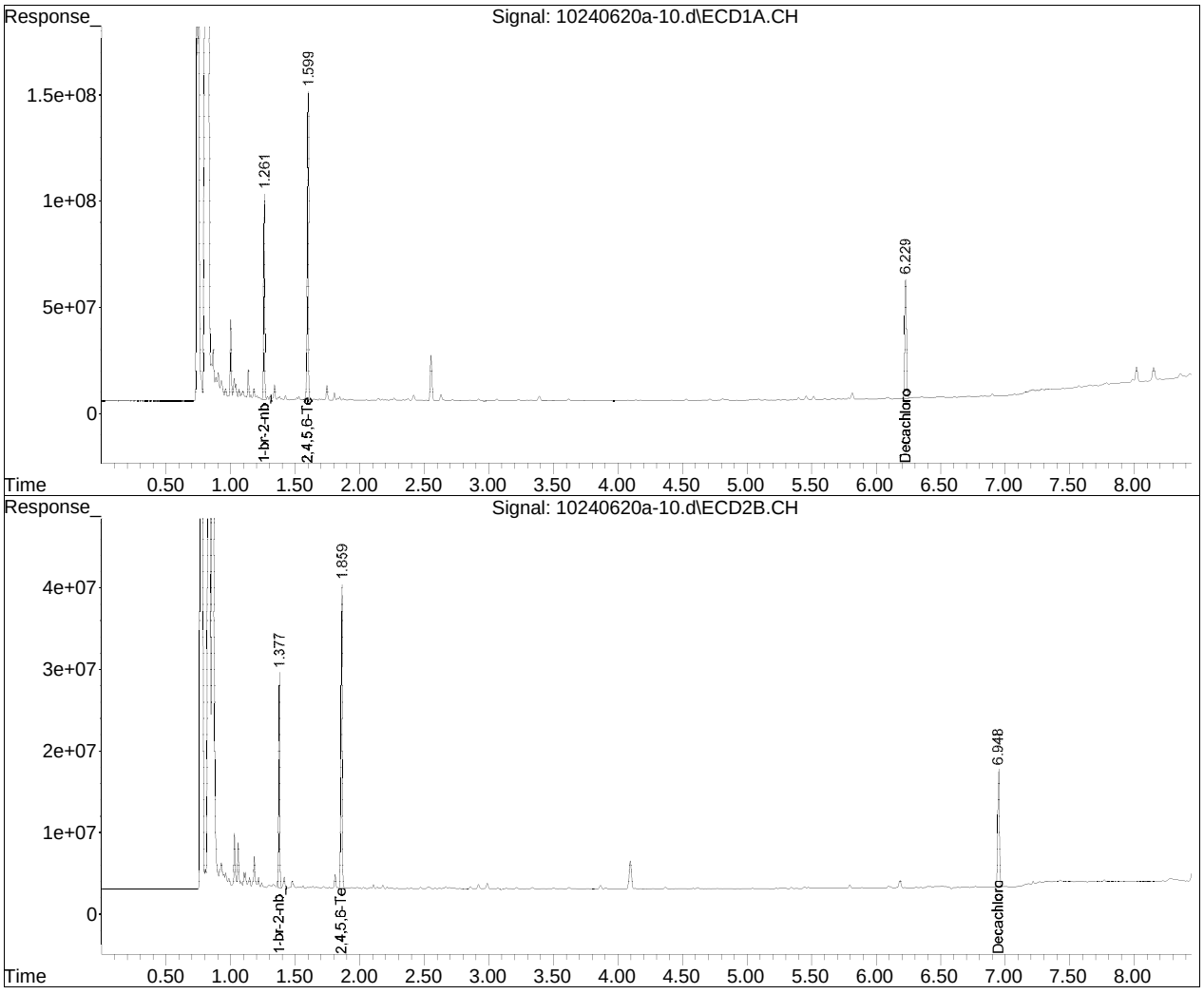
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:29
Operator : PEST10:mmg
Sample : L2433375-01,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

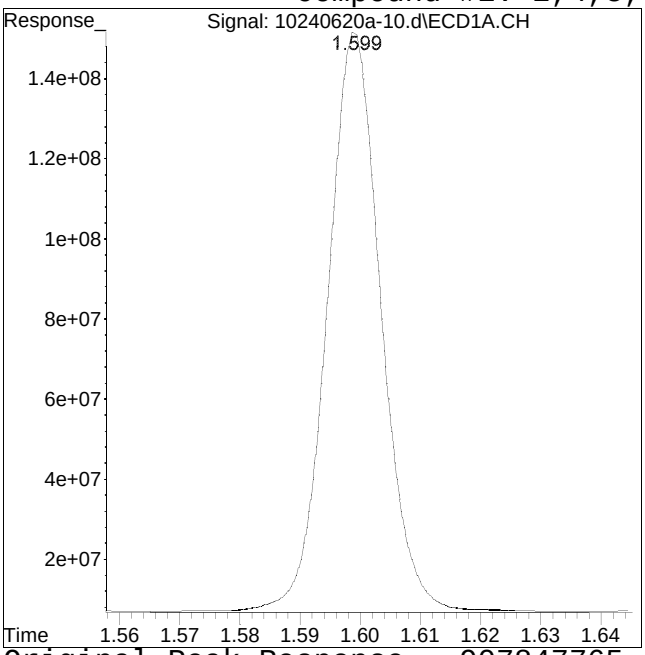
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

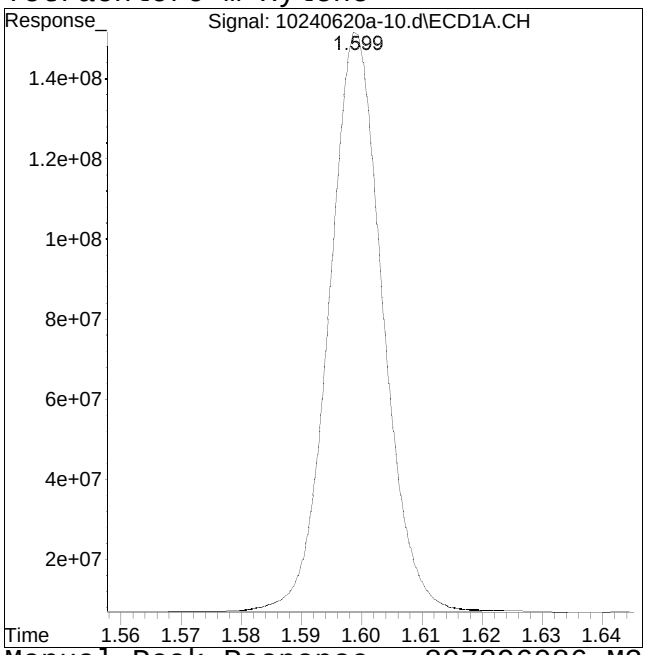


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-10.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:29 Instrument : Pest 10
Sample : L2433375-01,42,, Quant Date : 6/20/2024 9:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



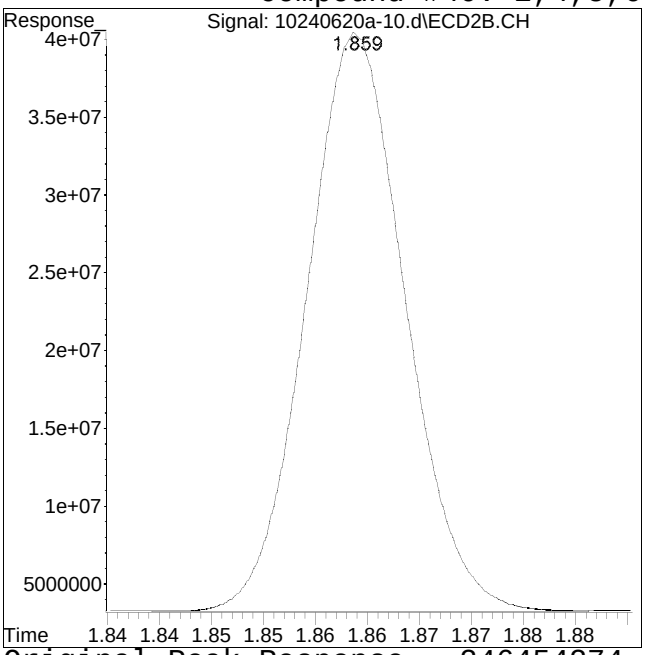


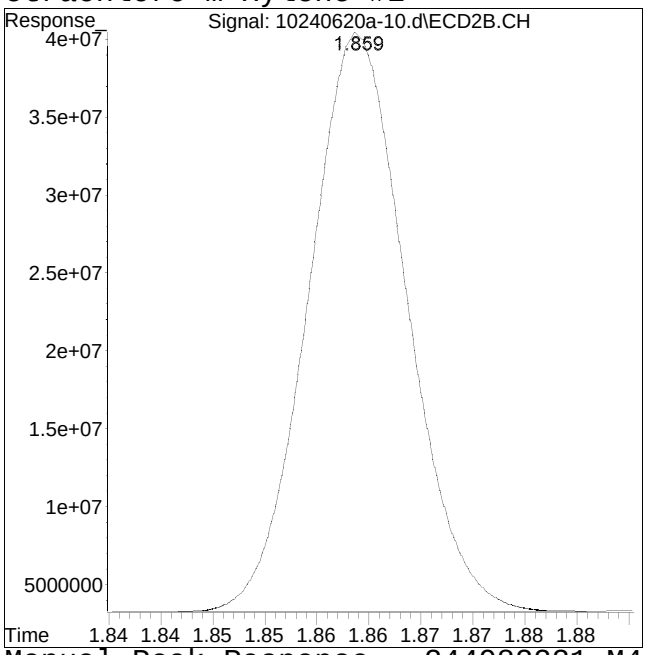
Original Peak Response = 907847765 Manual Peak Response = 897396086 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-10.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:29 Instrument : Pest 10
Sample : L2433375-01,42,, Quant Date : 6/20/2024 9:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



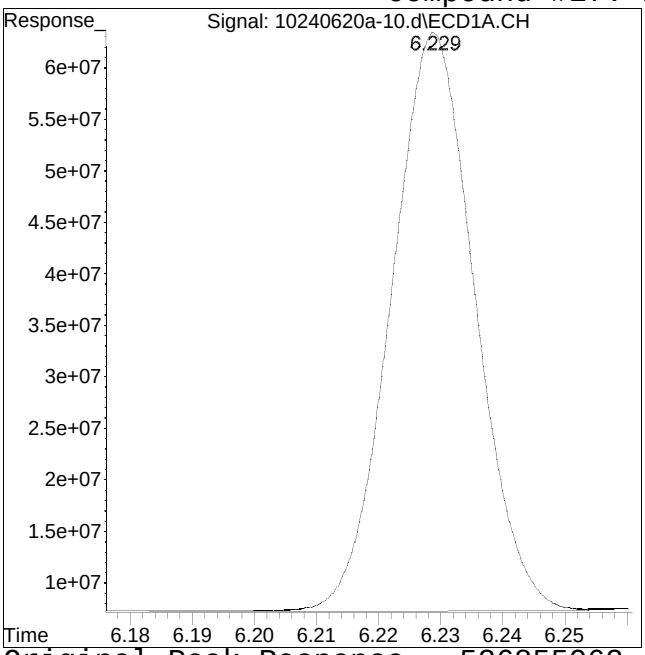


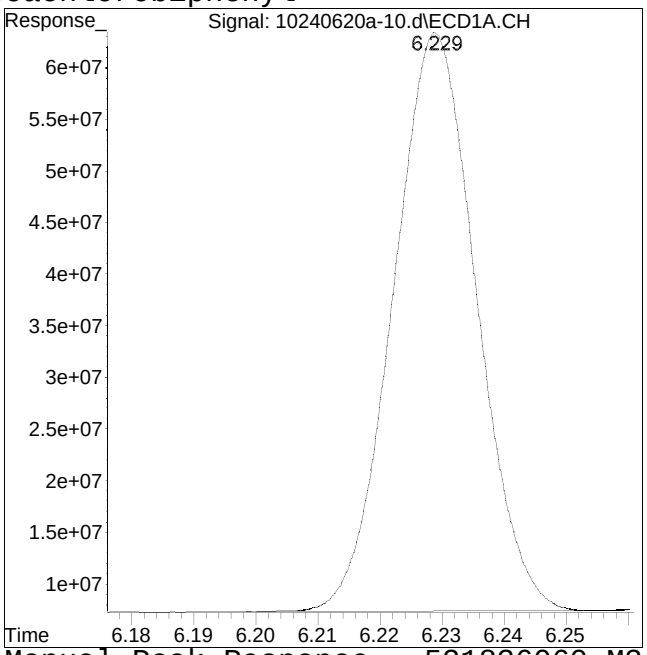
Original Peak Response = 246454274 Manual Peak Response = 244982221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-10.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:29 Instrument : Pest 10
Sample : L2433375-01,42,, Quant Date : 6/20/2024 9:23 am

Compound #27: Decachlorobiphenyl



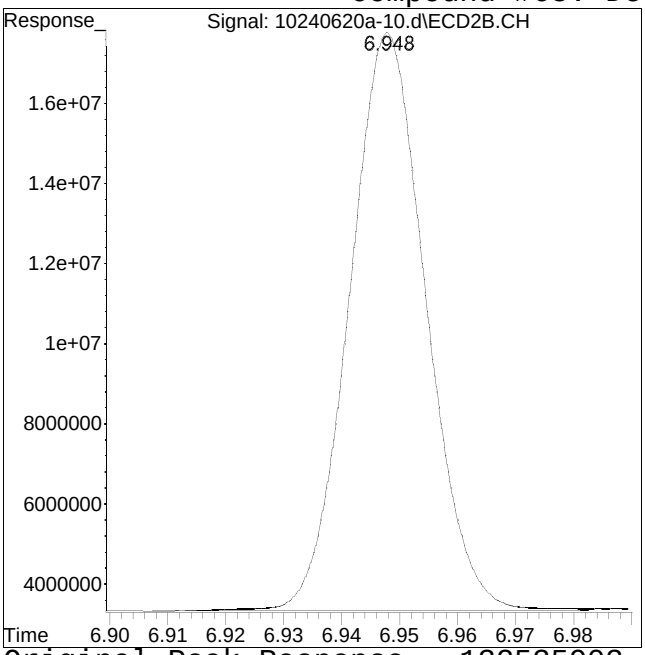


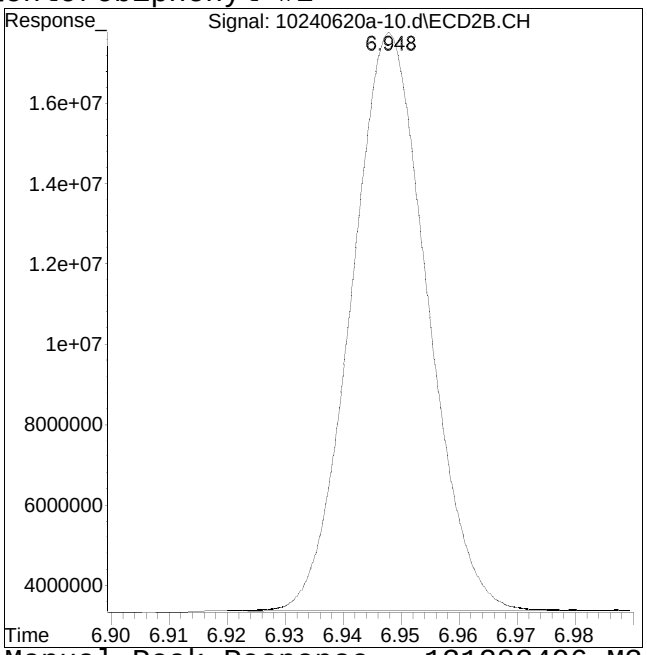
Original Peak Response = 526855962 Manual Peak Response = 521836060 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-10.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:29 Instrument : Pest 10
Sample : L2433375-01,42,, Quant Date : 6/20/2024 9:23 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 132535903 Manual Peak Response = 131282496 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:40
Operator : PEST10:mmg
Sample : L2433375-02,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:01 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.261	1.377	539.6E6	148.9E6	25.000	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery =	116.04%	
	Standard Area 1 : #2 = 137931823				Recovery =	107.93%	
28) i	1-br-2-nb_Ch	1.261	1.377	539.6E6	148.9E6	25.000	25.000M3
33) i	1-br-2-nb_To	1.261	1.377	539.6E6	148.9E6	25.000	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.598	1.859	809.6E6	219.2E6	34.564M4	39.153M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	69.13%	78.31%
27) s	Decachlorobi	6.229	6.950	806.3E6	190.7E6	46.164M4	44.236M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	92.33%	88.47%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:40
Operator : PEST10:mmg
Sample : L2433375-02,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:01 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

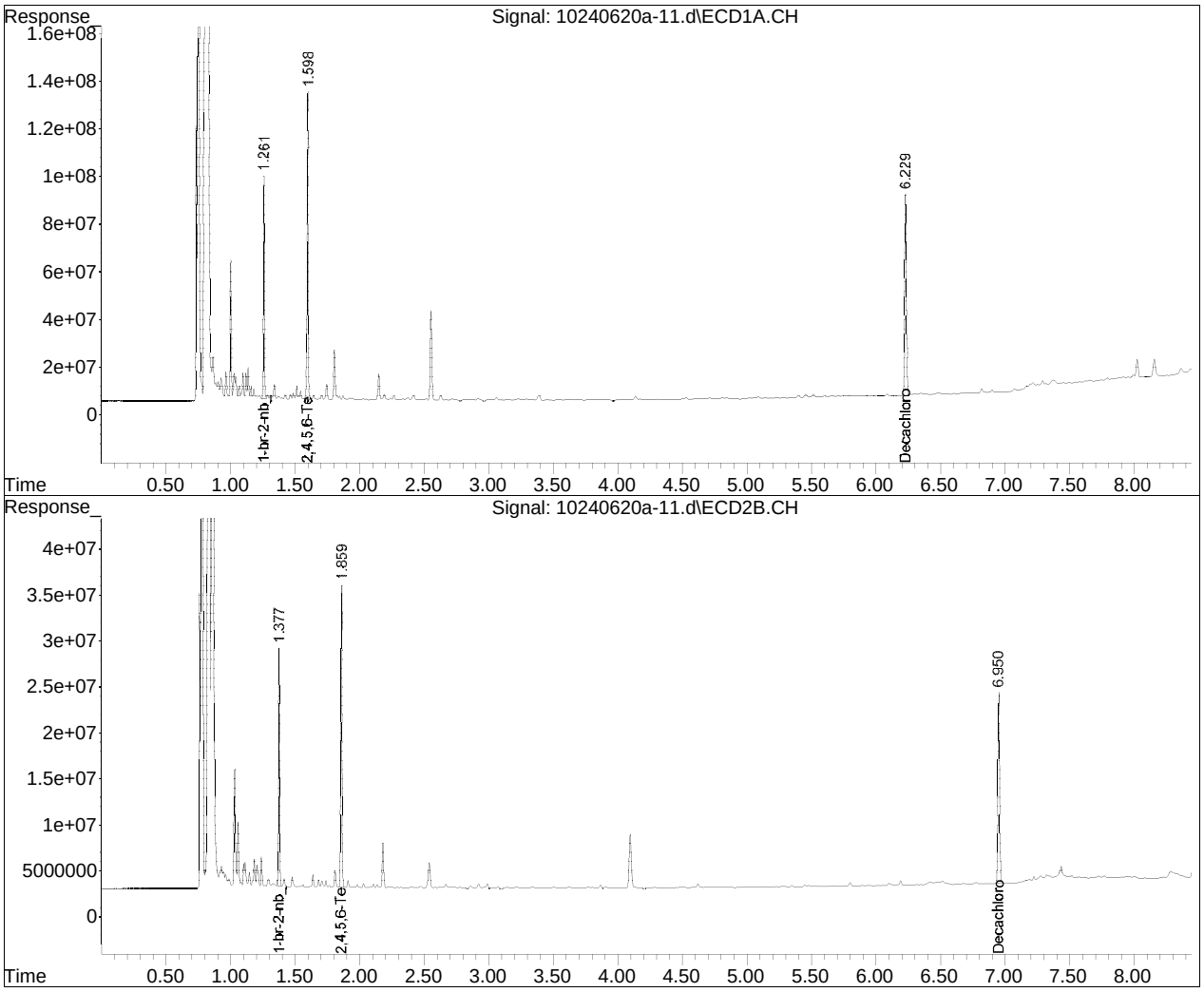
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:40
Operator : PEST10:mmg
Sample : L2433375-02,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:01 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

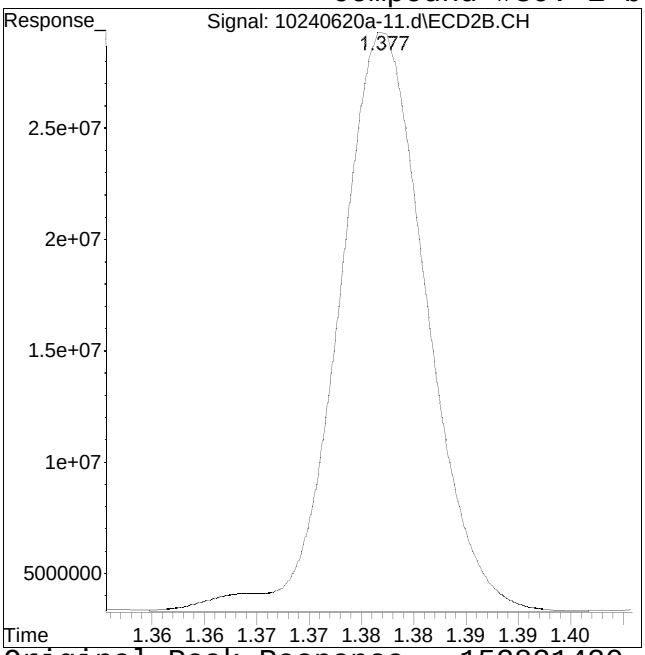
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

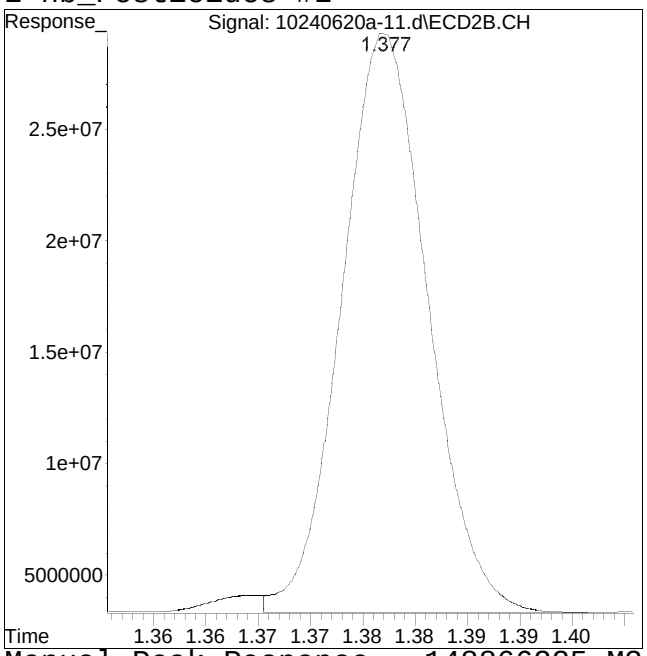


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-11.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:40 Instrument : Pest 10
Sample : L2433375-02,42,, Quant Date : 6/20/2024 9:24 am

Compound #39: 1-br-2-nb_Pesticides #2



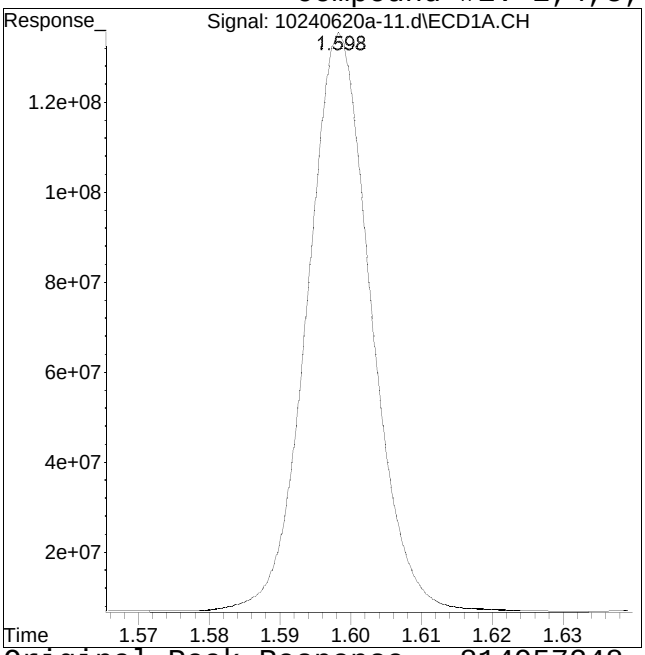


Original Peak Response = 152821420 Manual Peak Response = 148866225 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

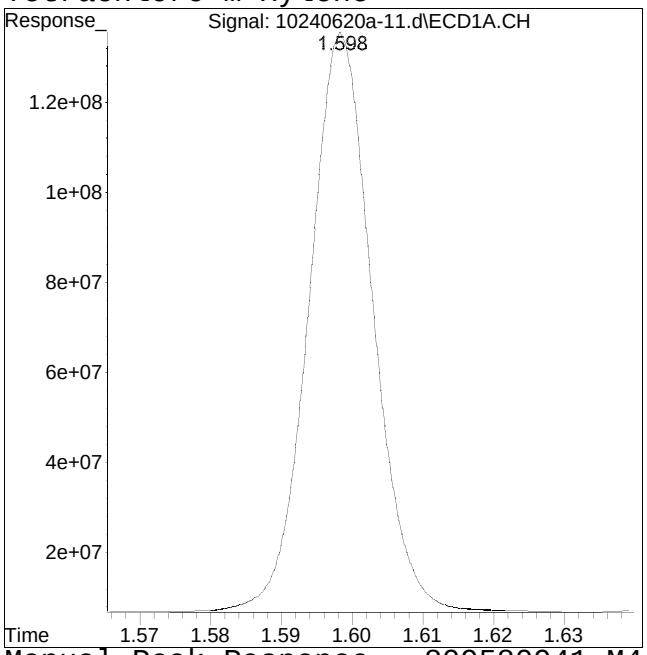
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-11.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:40 Instrument : Pest 10
Sample : L2433375-02,42,, Quant Date : 6/20/2024 9:24 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 814957248



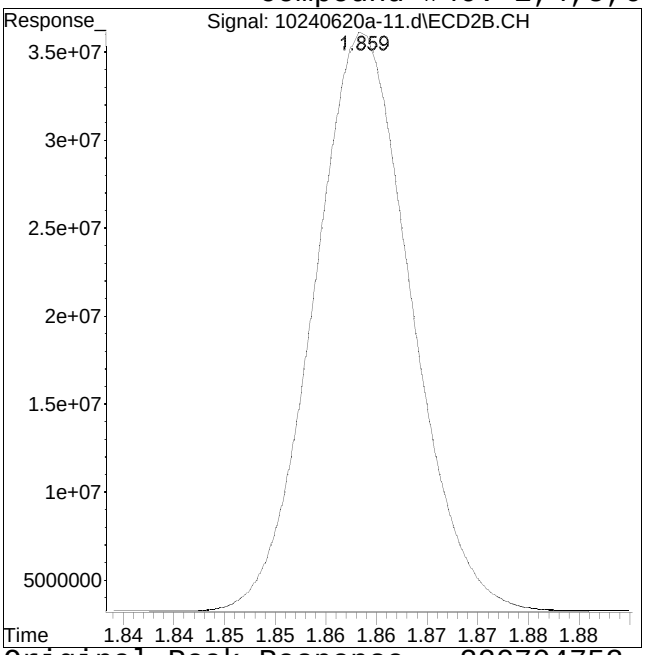
Manual Peak Response = 809580941 M4

M4 = Poor automated baseline construction.

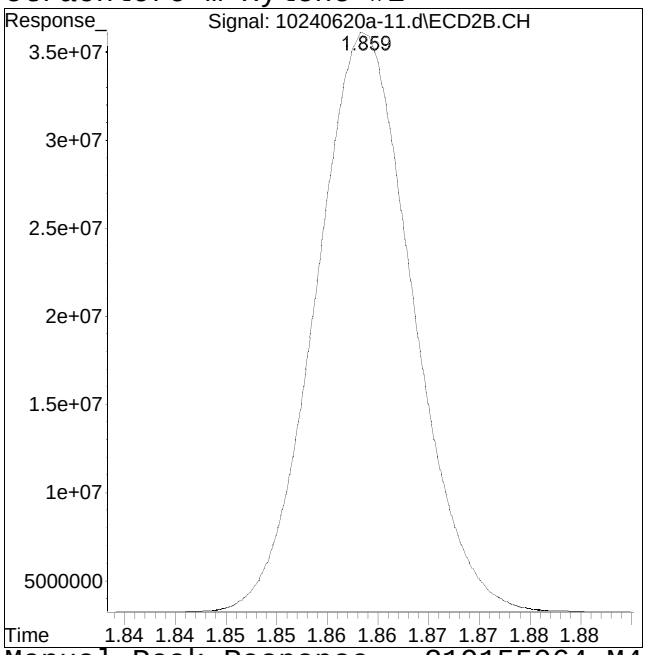
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-11.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:40 Instrument : Pest 10
Sample : L2433375-02,42,, Quant Date : 6/20/2024 9:24 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 220704752



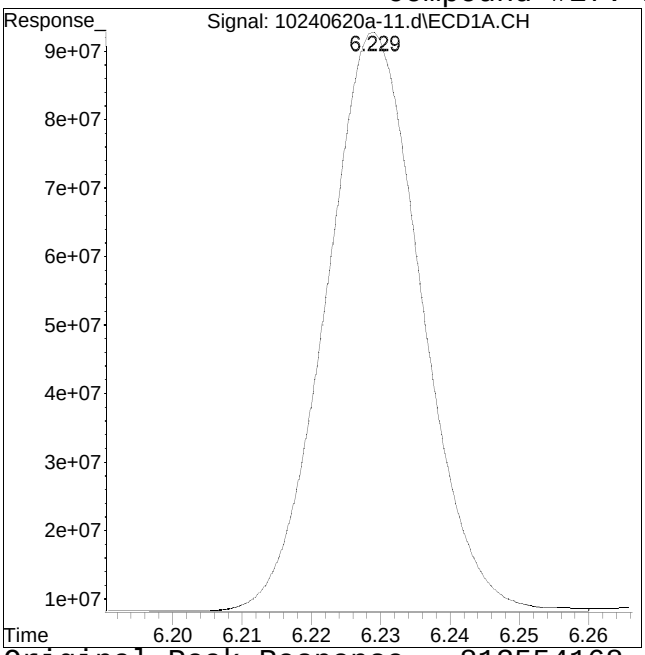
Manual Peak Response = 219155064 M4

M4 = Poor automated baseline construction.

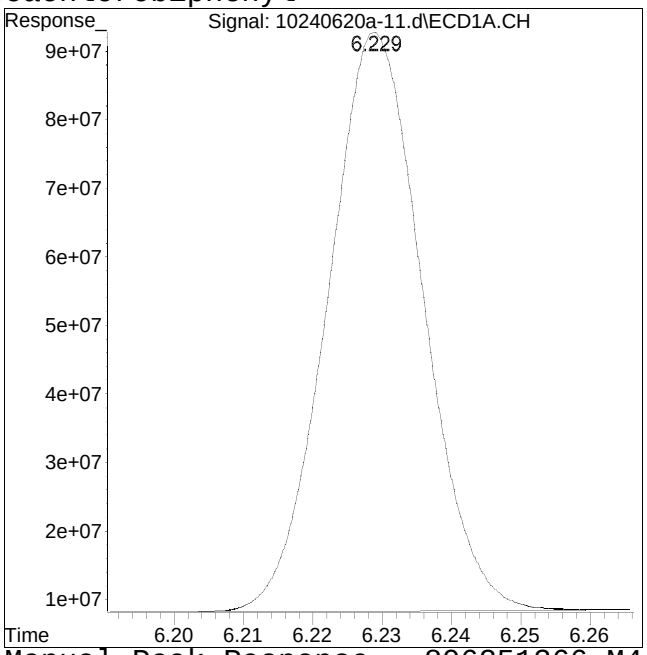
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-11.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:40 Instrument : Pest 10
Sample : L2433375-02,42,, Quant Date : 6/20/2024 9:24 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 813554168



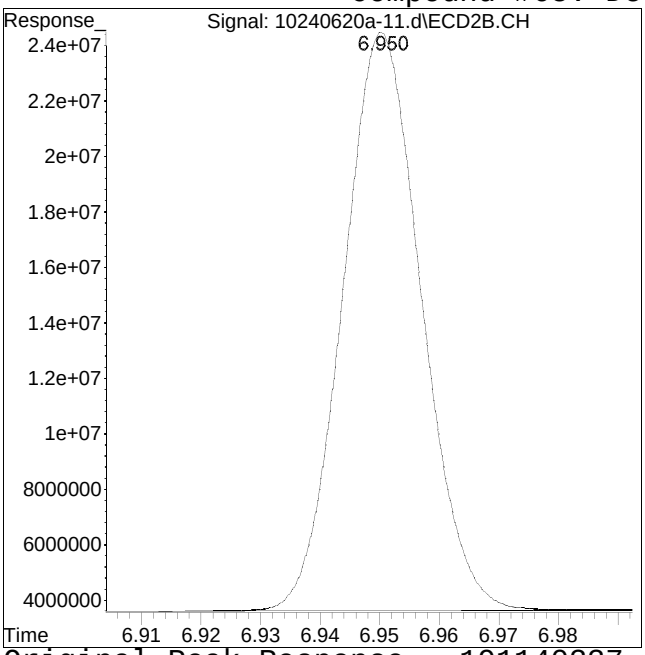
Manual Peak Response = 806251366 M4

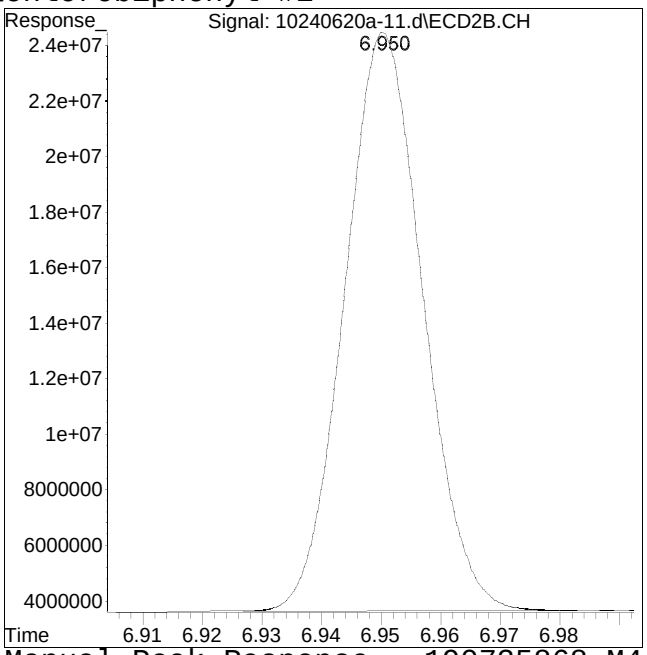
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-11.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:40 Instrument : Pest 10
Sample : L2433375-02,42,, Quant Date : 6/20/2024 9:24 am

Compound #65: Decachlorobiphenyl #2



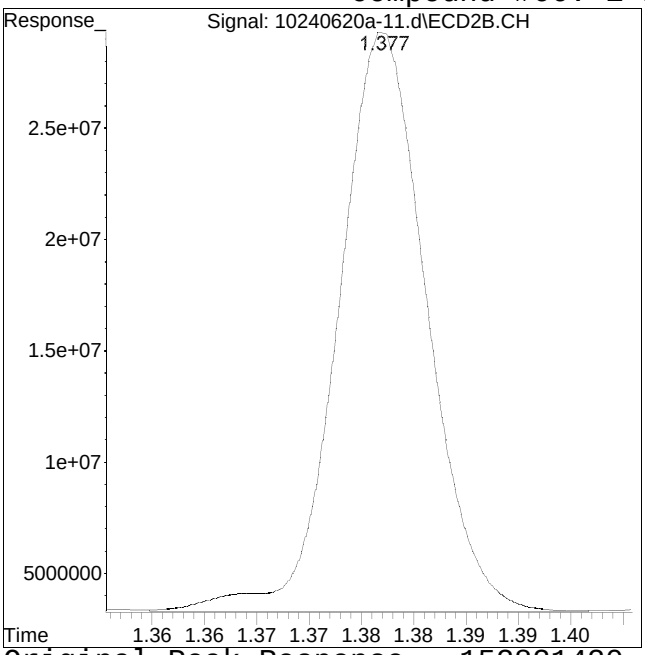


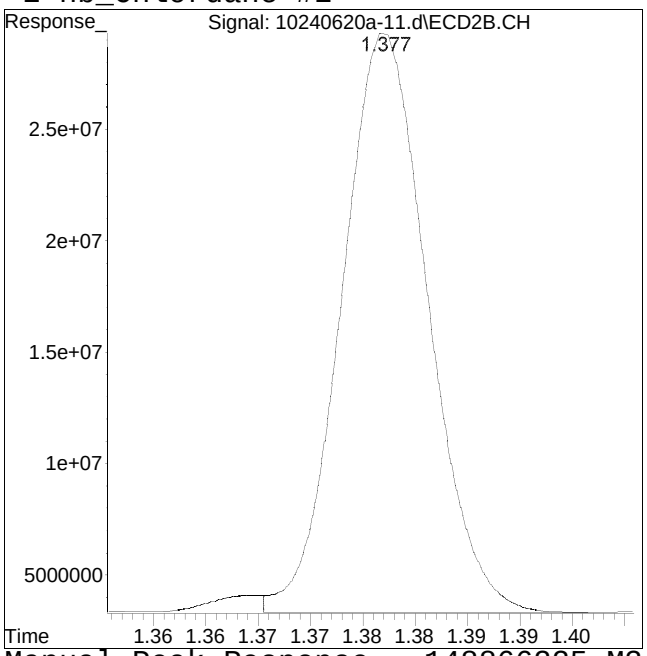
Original Peak Response = 191140337 Manual Peak Response = 190735868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-11.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:40 Instrument : Pest 10
Sample : L2433375-02,42,, Quant Date : 6/20/2024 9:24 am

Compound #66: 1-br-2-nb_Chlordane #2



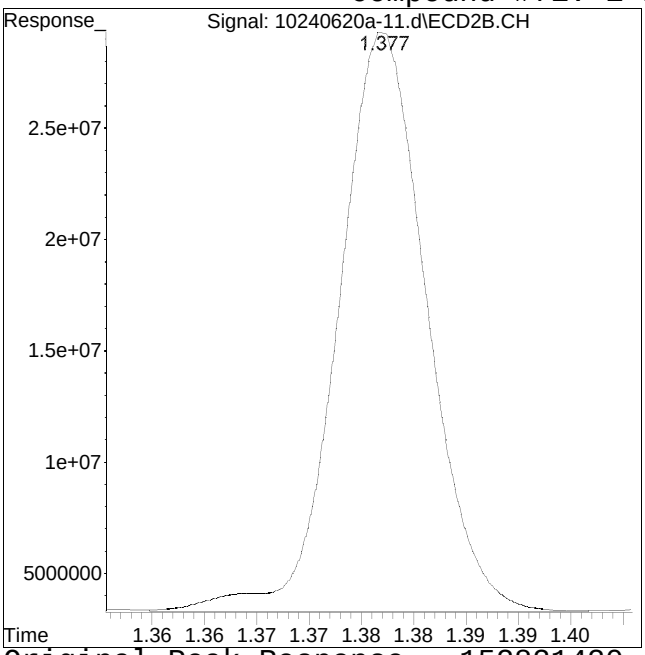


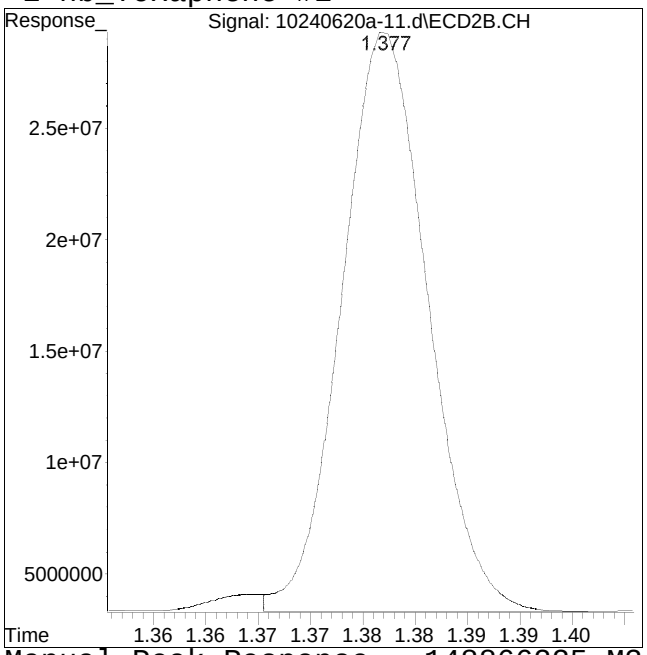
Original Peak Response = 152821420 Manual Peak Response = 148866225 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-11.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:40 Instrument : Pest 10
Sample : L2433375-02,42,, Quant Date : 6/20/2024 9:24 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 152821420 Manual Peak Response = 148866225 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:51
Operator : PEST10:mmg
Sample : L2433375-03,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:05 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.377	521.9E6	145.2E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 112.25%		
	Standard Area 1 : #2 = 137931823				Recovery = 105.28%		
28) i	1-br-2-nb_Ch	1.262	1.377	521.9E6	145.2E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.262	1.377	521.9E6	145.2E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.599	1.859	802.6E6	216.7E6	35.422M4	39.681M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 70.84%		79.36%
27) s	Decachlorobi	6.229	6.953	760.7E6	181.7E6	45.000M4	43.181M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 90.00%		86.36%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:51
Operator : PEST10:mmg
Sample : L2433375-03,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:05 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

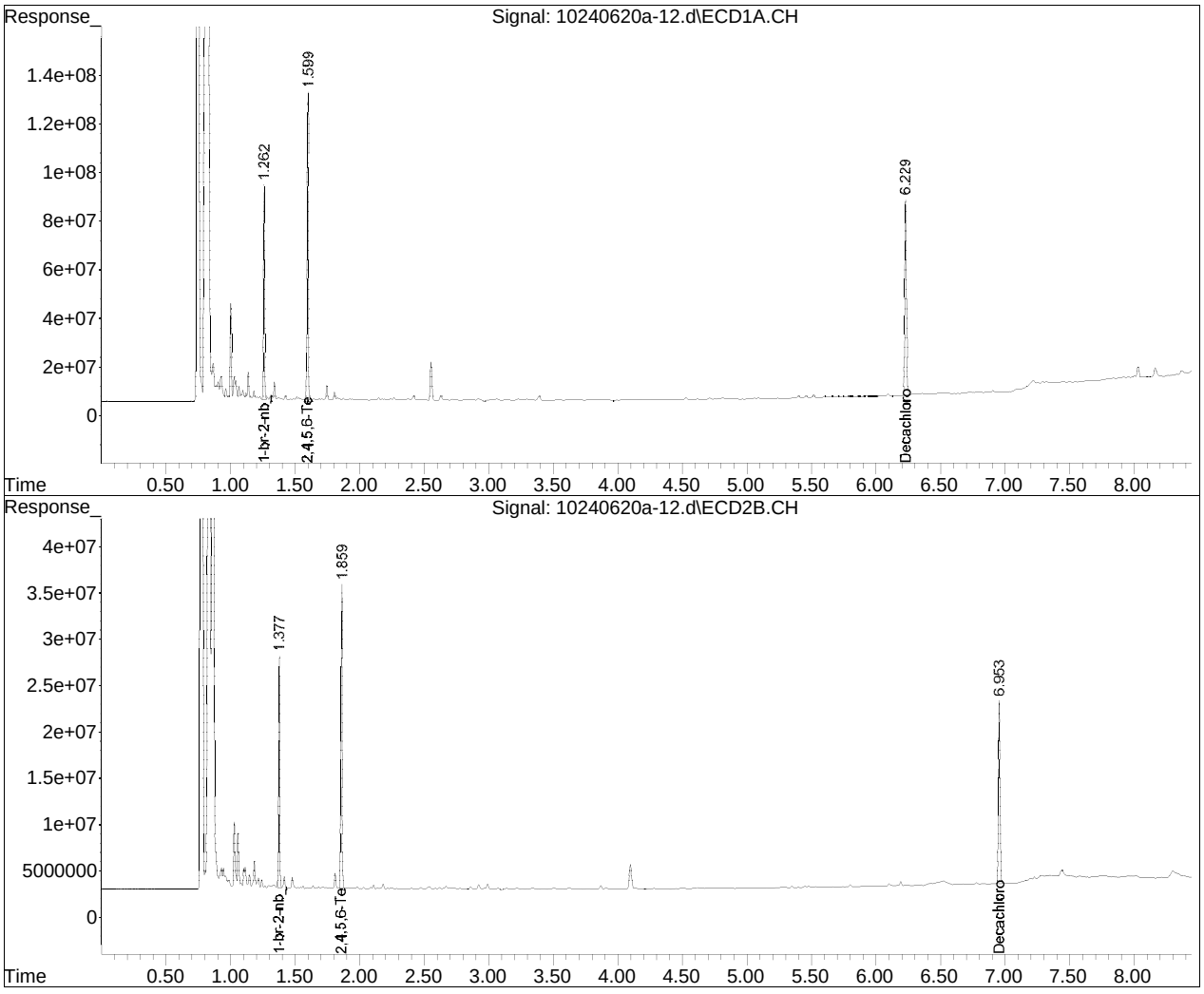
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:51
Operator : PEST10:mmg
Sample : L2433375-03,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:05 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

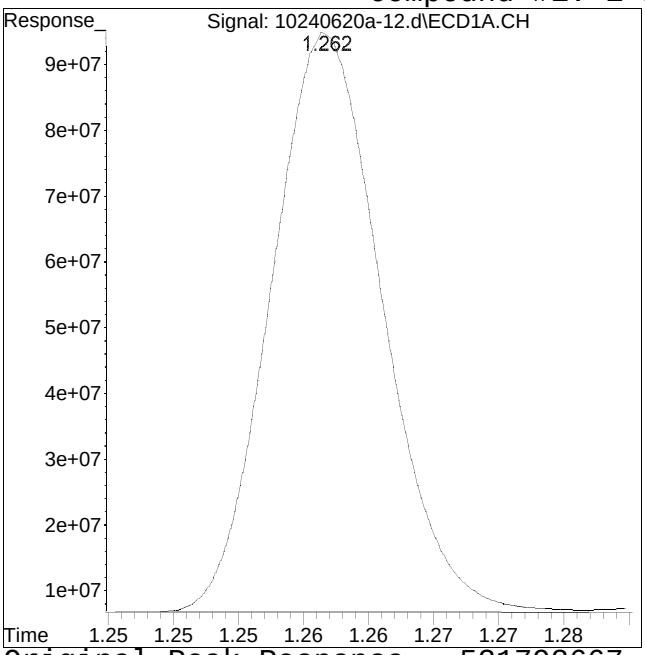
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

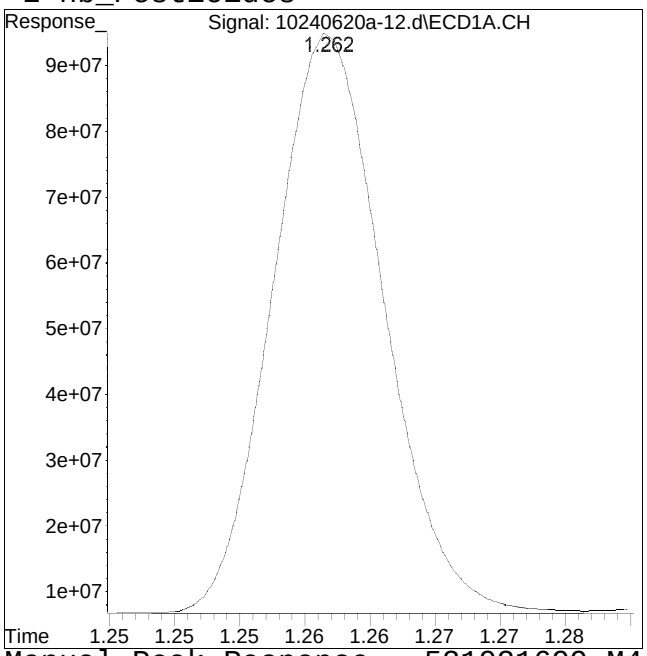


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #1: 1-br-2-nb_Pesticides





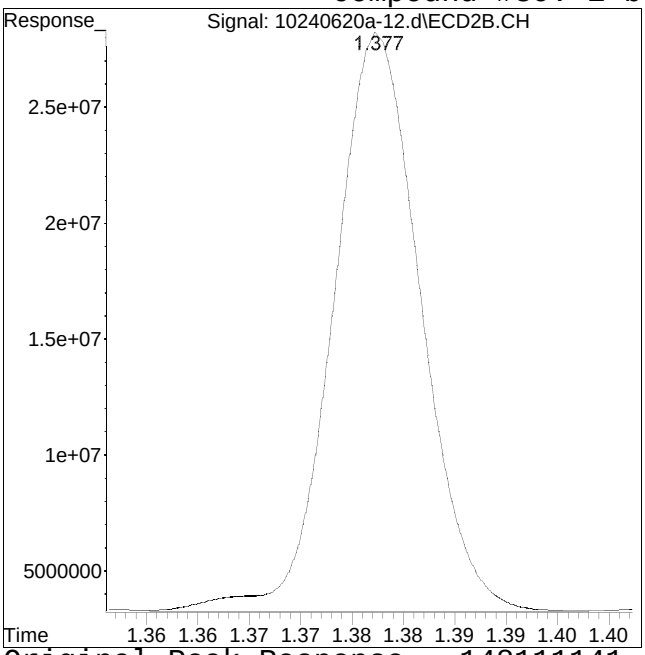
Original Peak Response = 521792667 Manual Peak Response = 521921699 M4
M4 = Poor automated baseline construction.

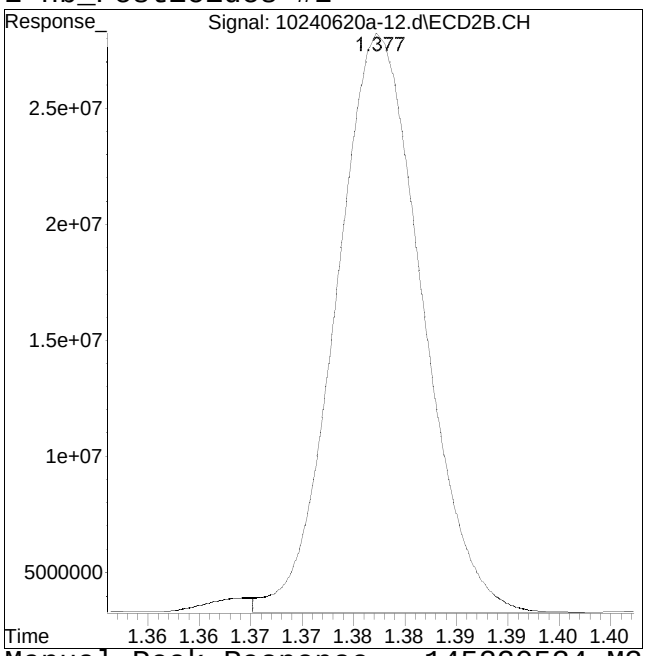
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-12.d
Date Inj'd : 6/20/2024 8:51
Sample : L2433375-03,42,,

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:24 am

Compound #39: 1-br-2-nb_Pesticides #2





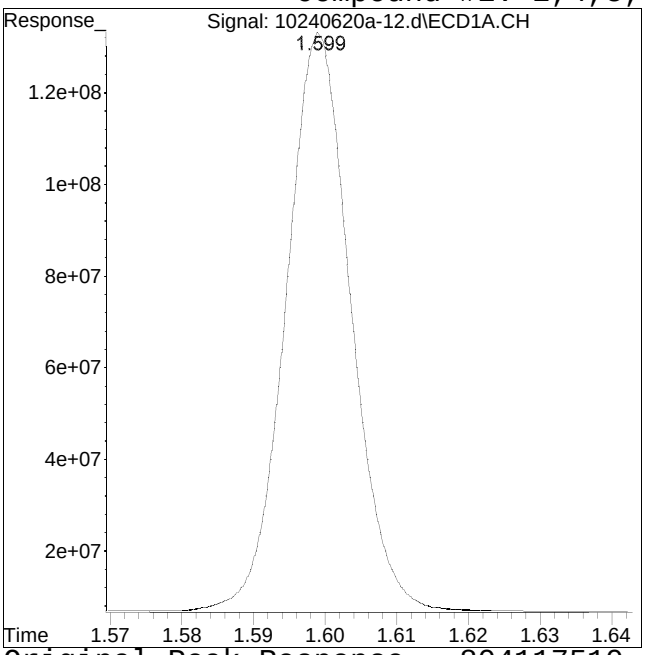
Original Peak Response = 148111141 Manual Peak Response = 145220534 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

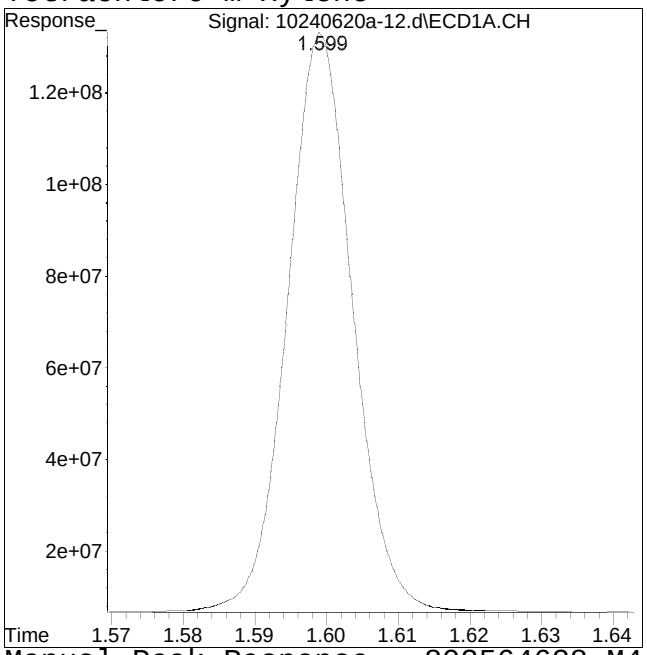
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 804117510

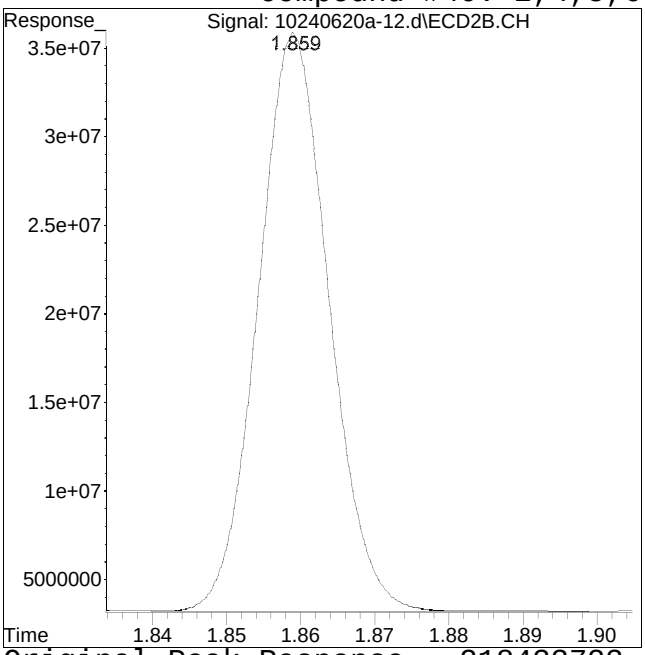


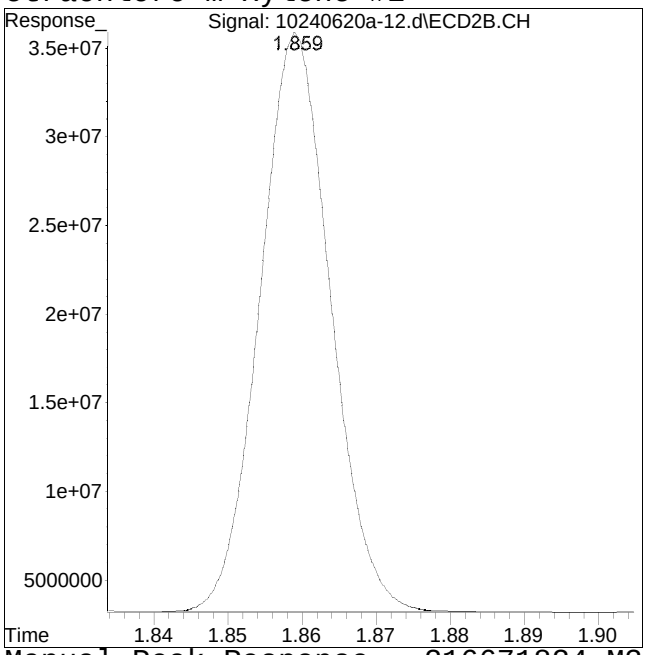
Manual Peak Response = 802564628 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



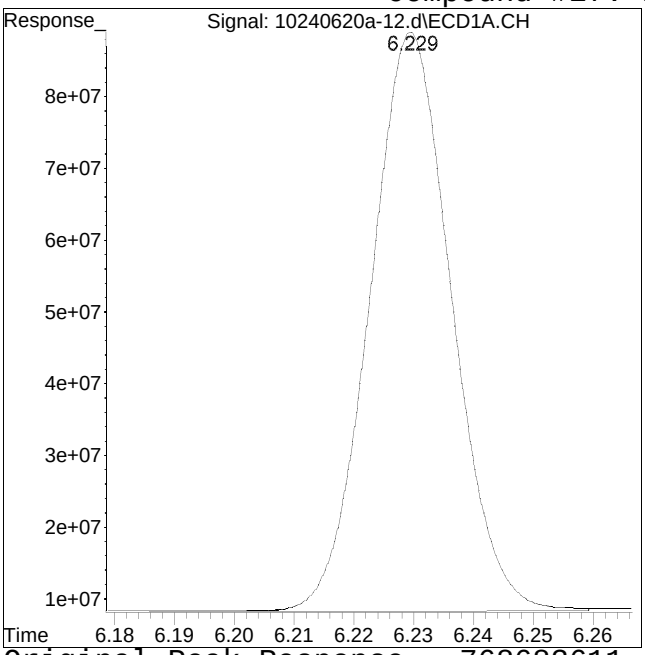


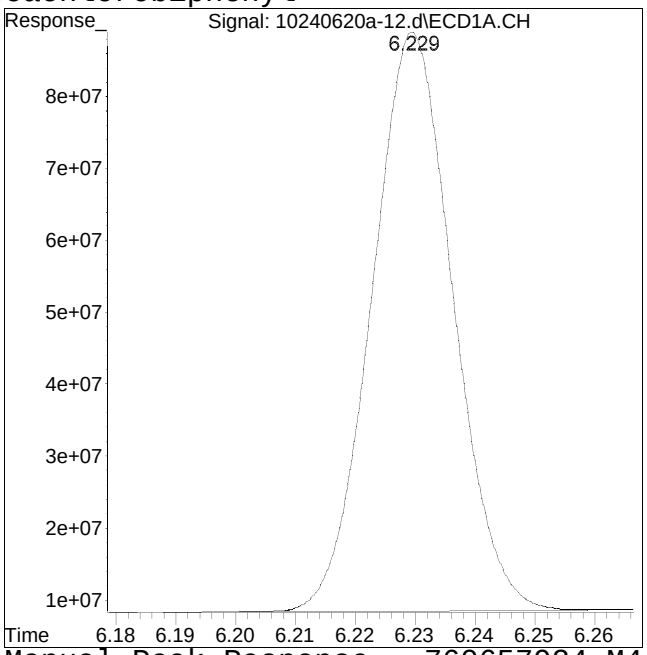
Original Peak Response = 218433723 Manual Peak Response = 216671824 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #27: Decachlorobiphenyl





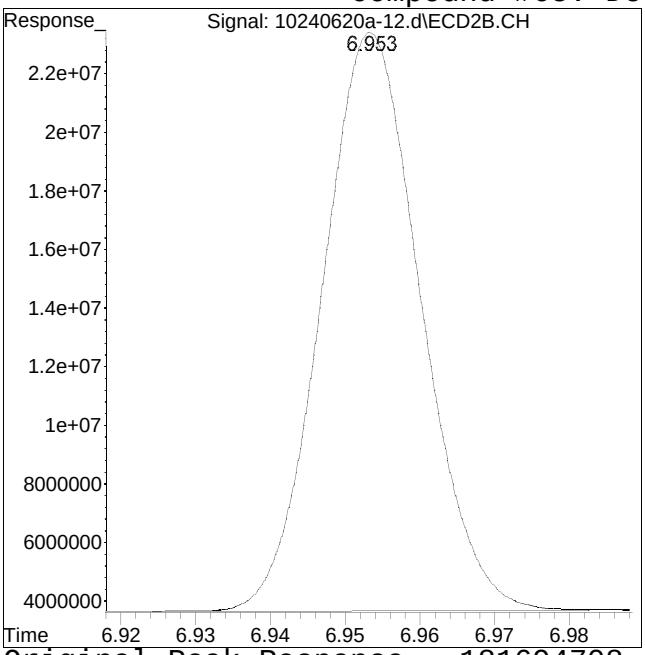
Original Peak Response = 768683611 Manual Peak Response = 760657924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

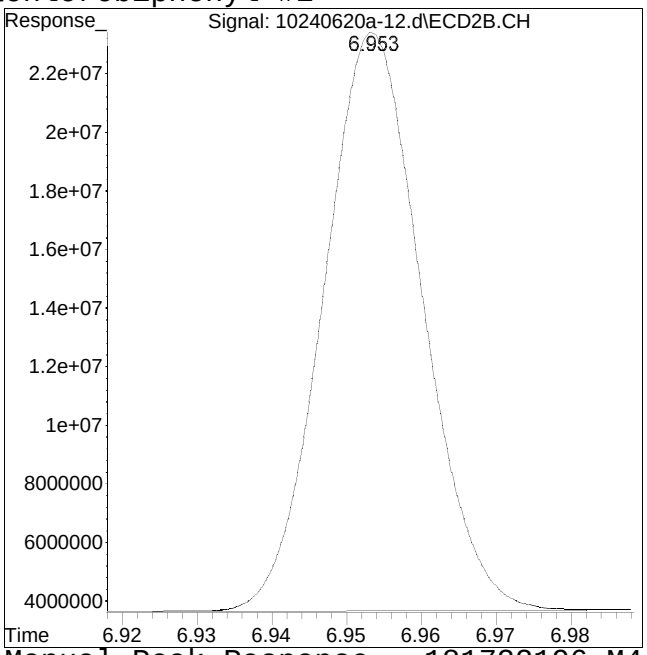
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-12.d
Date Inj'd : 6/20/2024 8:51
Sample : L2433375-03,42,,

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:24 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 181694708



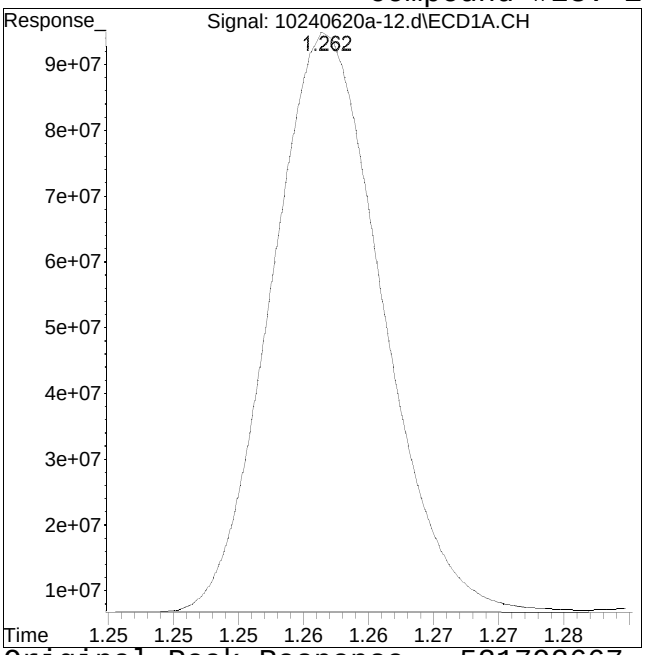
Manual Peak Response = 181722196 M4

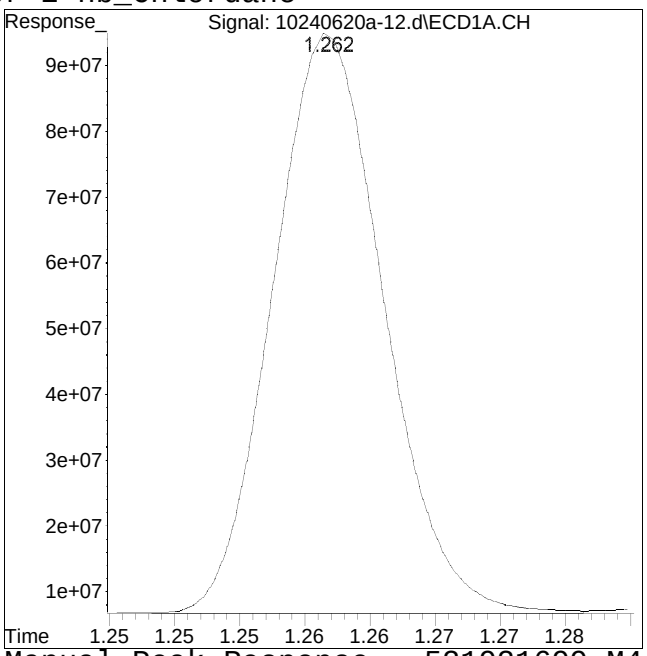
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #28: 1-br-2-nb_Chlordane



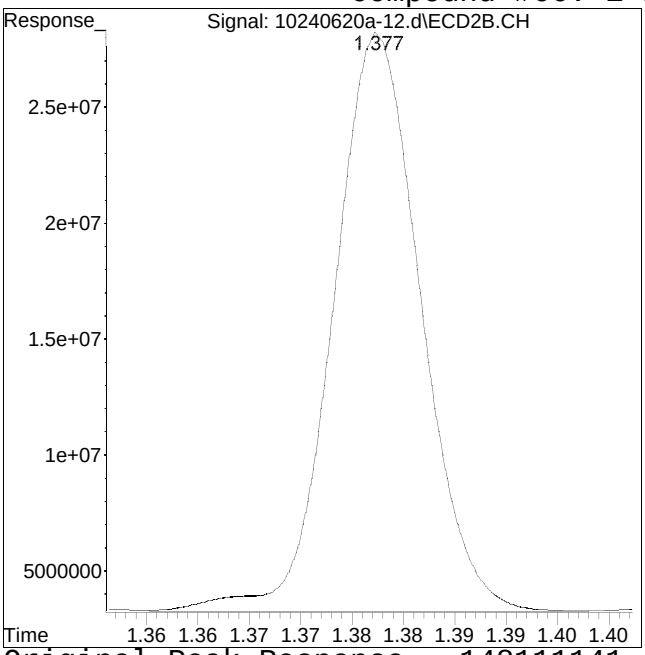


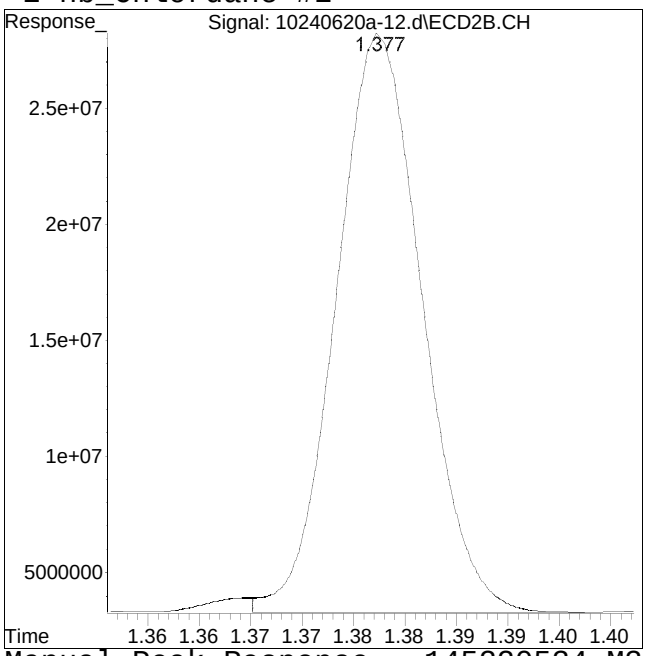
Original Peak Response = 521792667 Manual Peak Response = 521921699 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #66: 1-br-2-nb_Chlordane #2



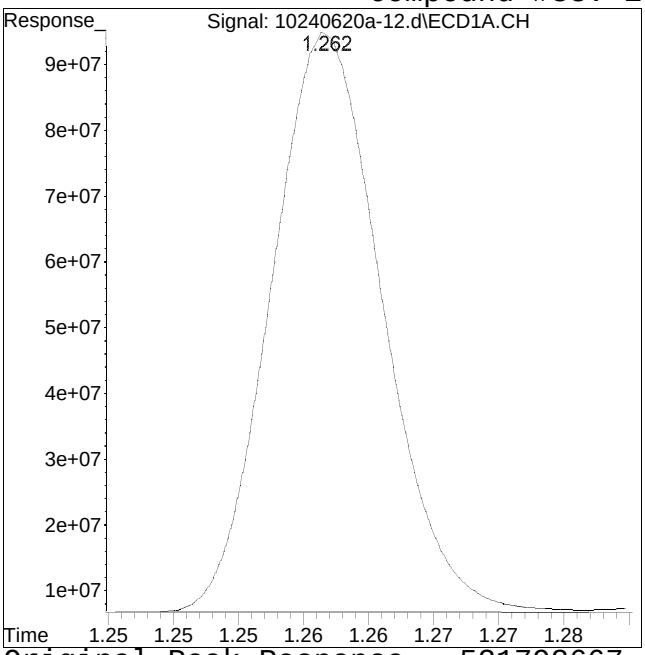


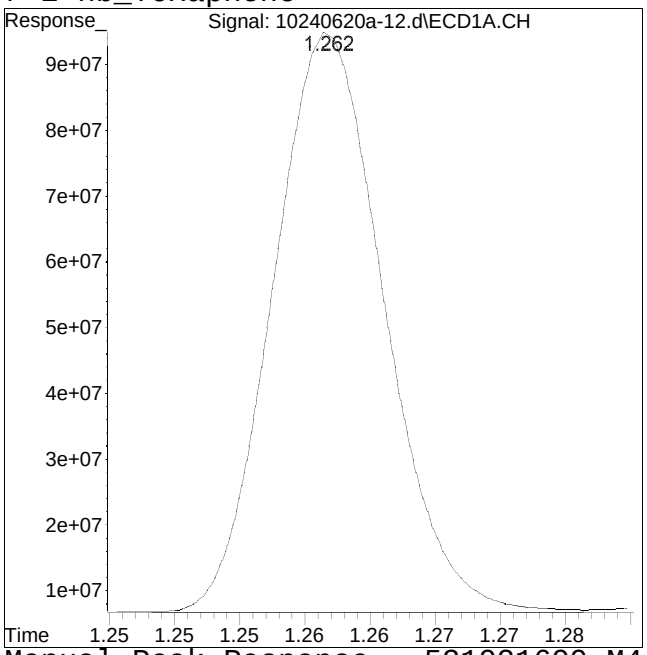
Original Peak Response = 148111141 Manual Peak Response = 145220534 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #33: 1-br-2-nb_Toxaphene



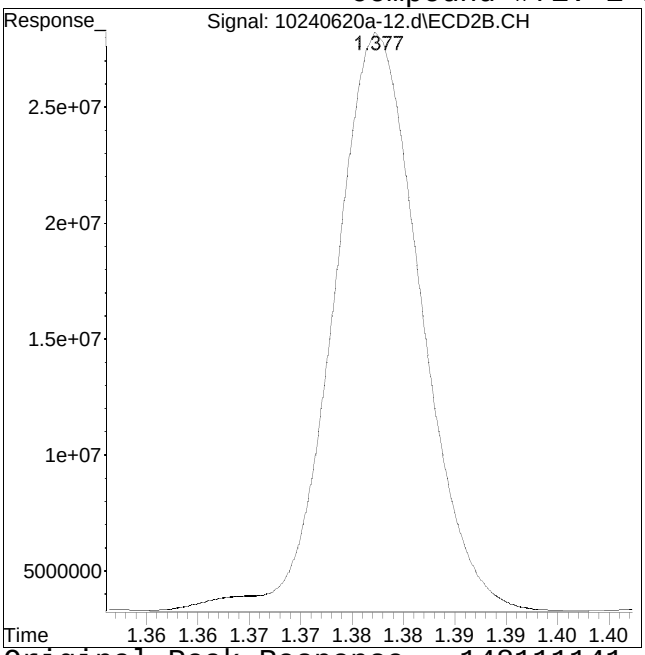


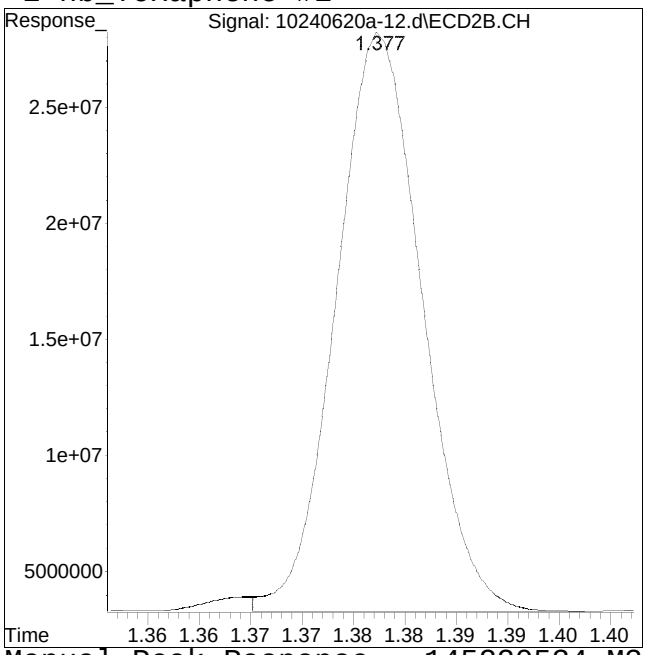
Original Peak Response = 521792667 Manual Peak Response = 521921699 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-12.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:51 Instrument : Pest 10
Sample : L2433375-03,42,, Quant Date : 6/20/2024 9:24 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 148111141 Manual Peak Response = 145220534 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:02
Operator : PEST10:mmg
Sample : L2433375-04,42,, P
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:08 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.378	511.1E6	143.1E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 109.92%		
	Standard Area 1 : #2 = 137931823				Recovery = 103.77%		
28) i	1-br-2-nb_Ch	1.262	1.378	511.1E6	143.1E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.262	1.378	511.1E6	143.1E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.599	1.859	854.3E6	229.5E6	38.505M4	42.649M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 77.01%		85.30%
27) s	Decachlorobi	6.229	6.947	765.7E6	183.8E6	46.289M4	44.331M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 92.58%		88.66%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:02
Operator : PEST10:mmg
Sample : L2433375-04,42,, P
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:08 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

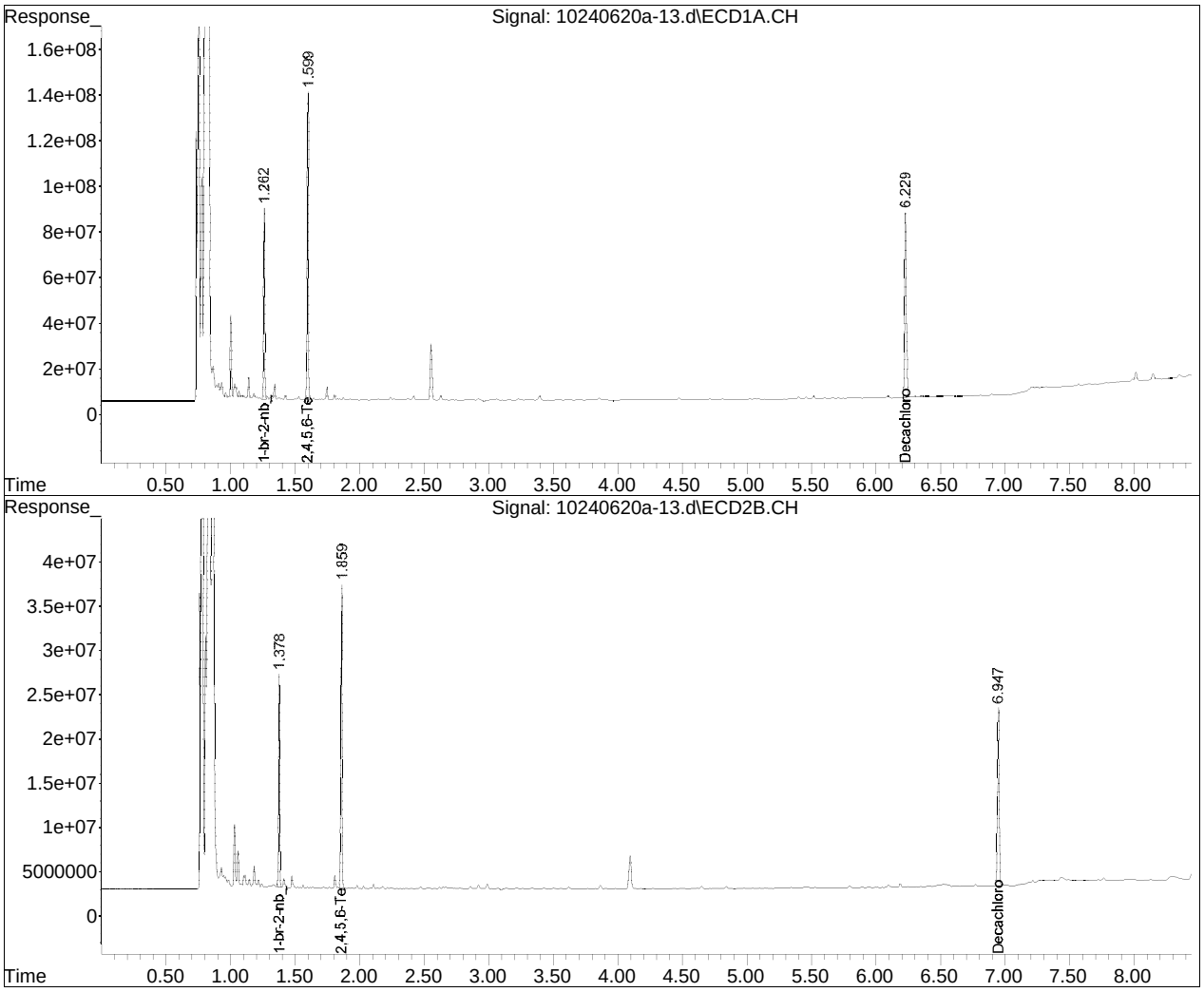
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:02
Operator : PEST10:mmg
Sample : L2433375-04,42,, P
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:24:08 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

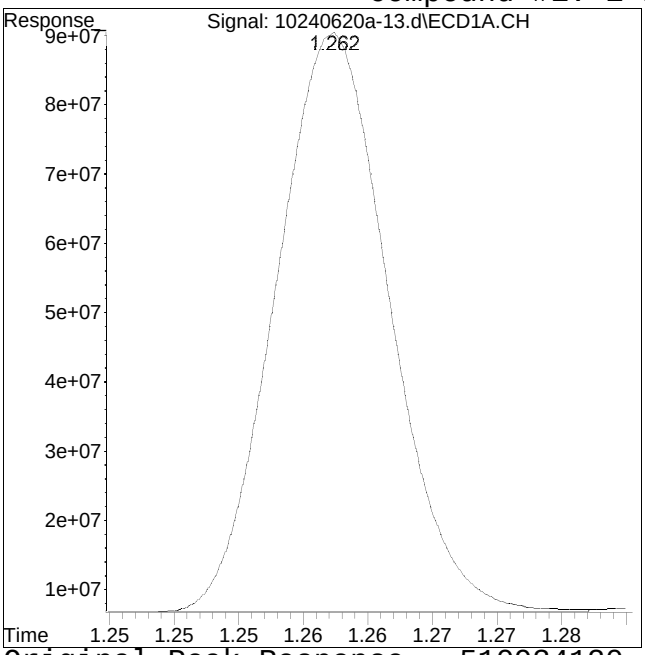
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

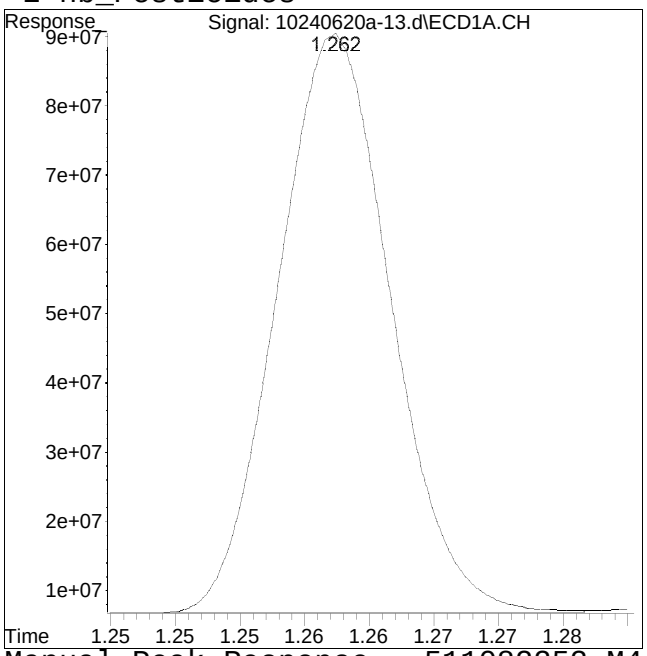


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #1: 1-br-2-nb_Pesticides



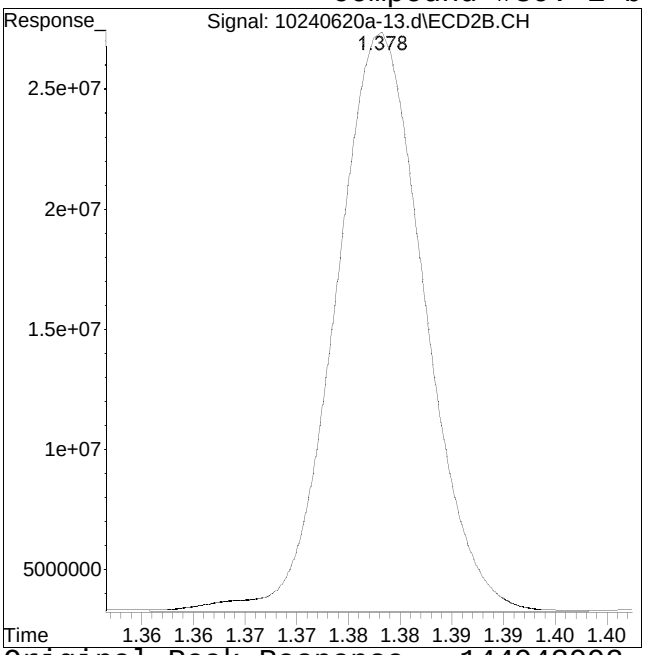


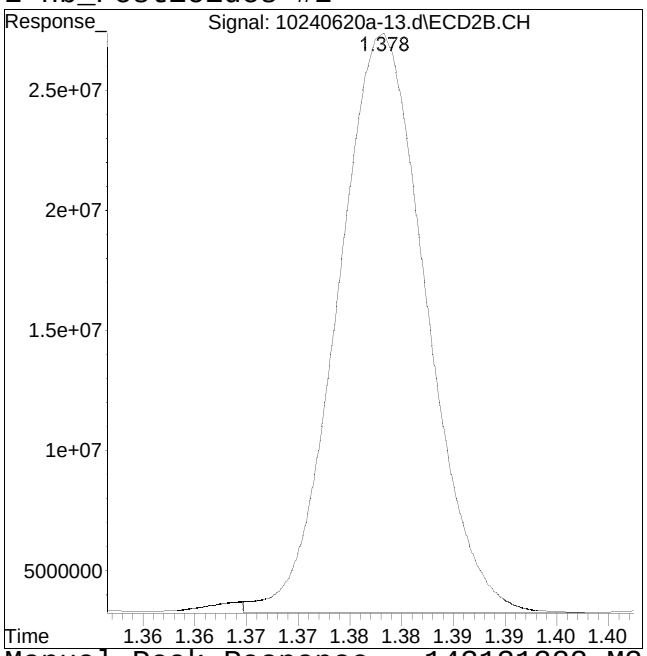
Original Peak Response = 510934120 Manual Peak Response = 511082252 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #39: 1-br-2-nb_Pesticides #2



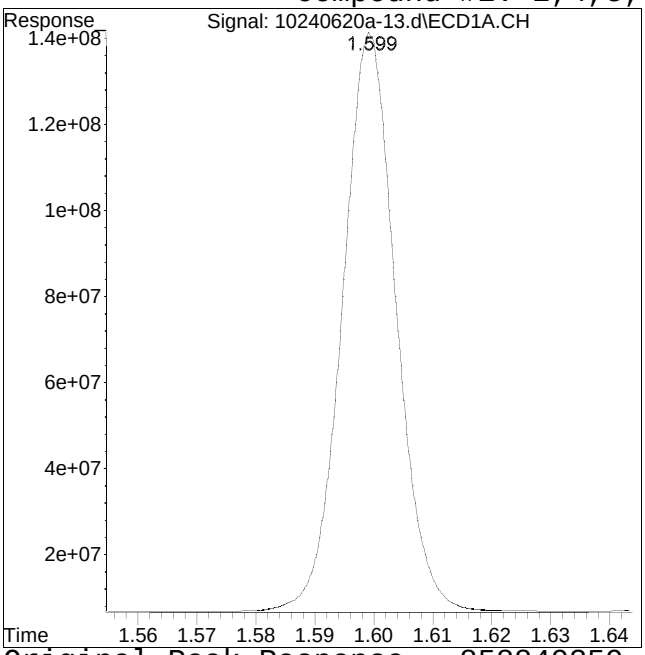


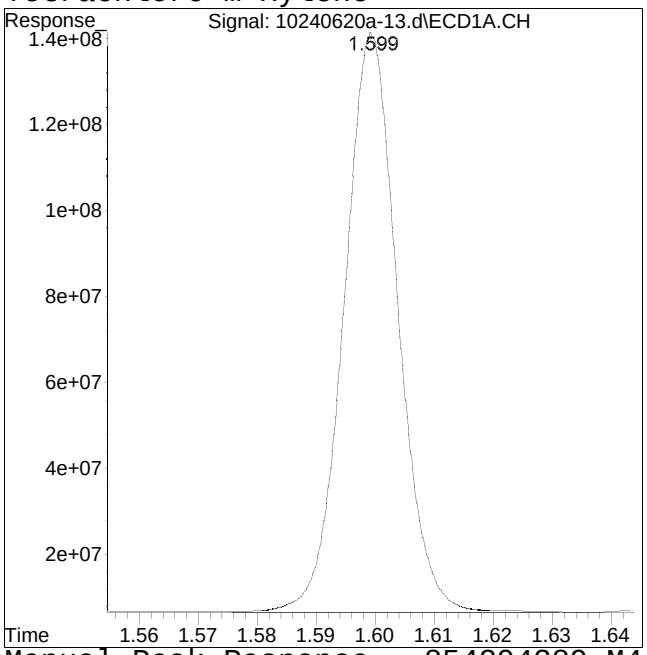
Original Peak Response = 144943992 Manual Peak Response = 143131222 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



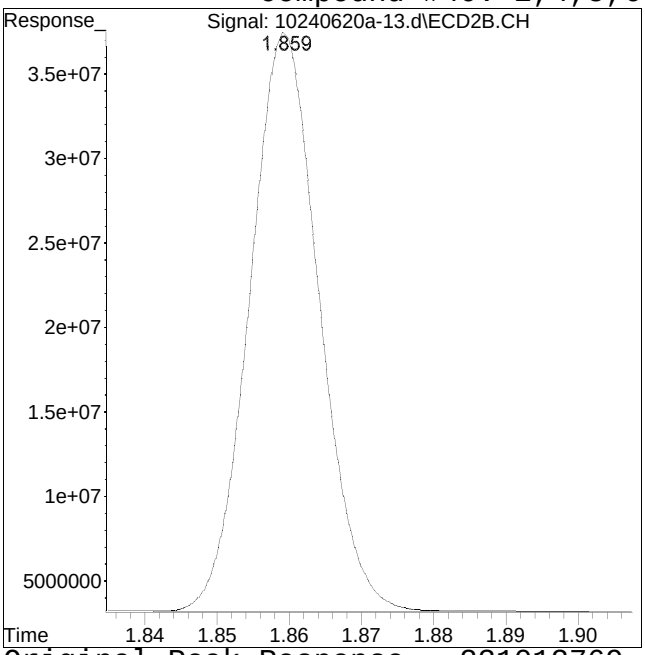


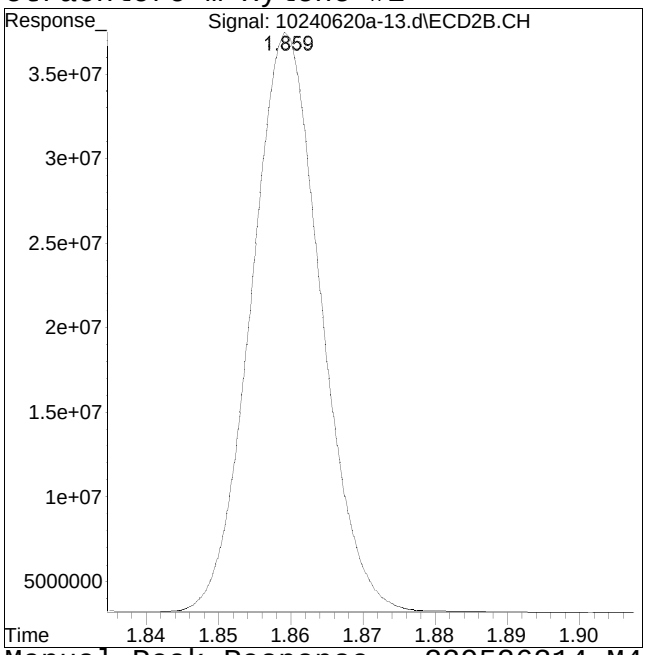
Original Peak Response = 858840359 Manual Peak Response = 854294389 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



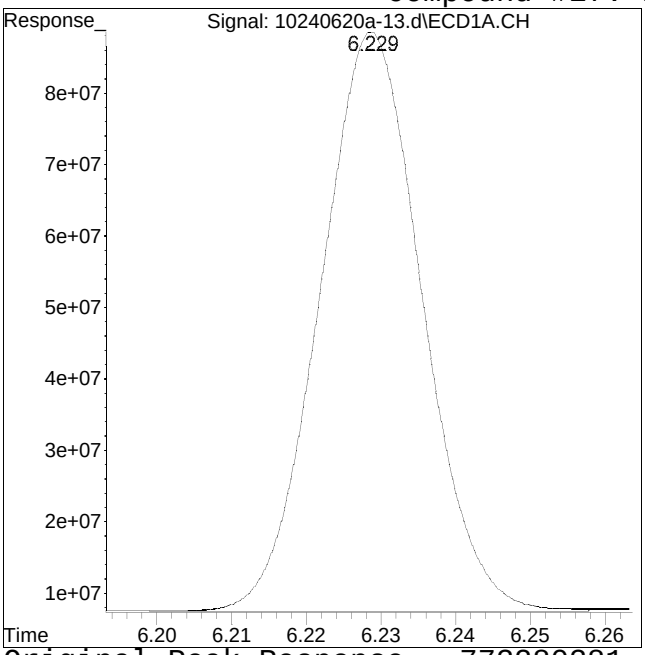


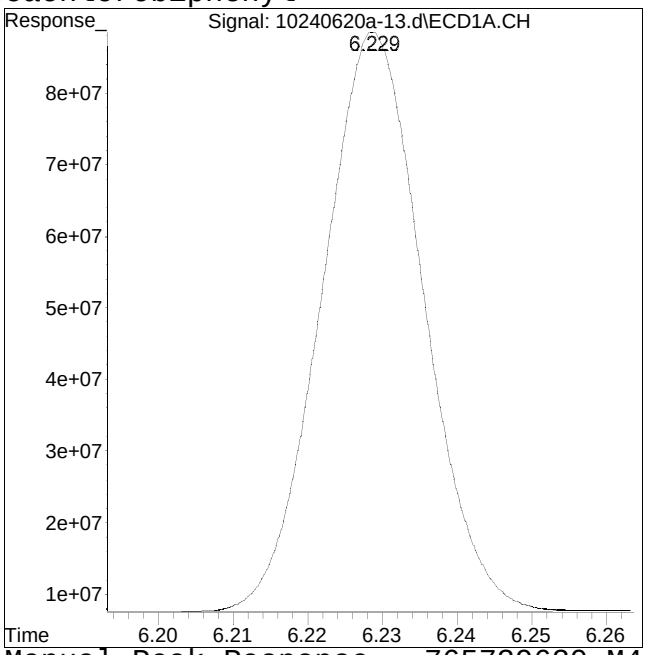
Original Peak Response = 231012769 Manual Peak Response = 229526314 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #27: Decachlorobiphenyl



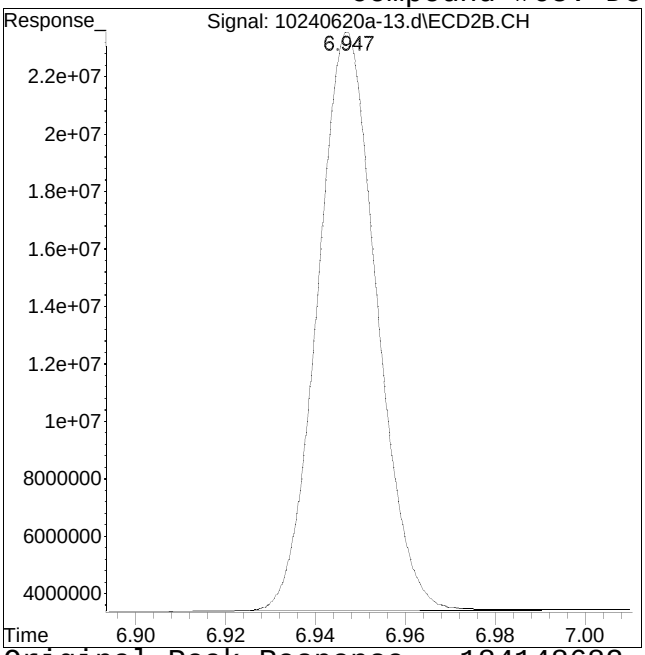


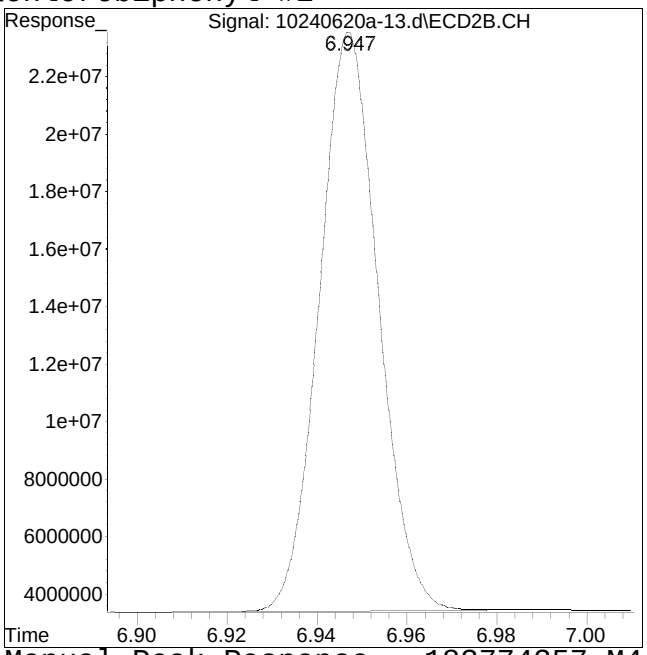
Original Peak Response = 773280381 Manual Peak Response = 765739620 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #65: Decachlorobiphenyl #2



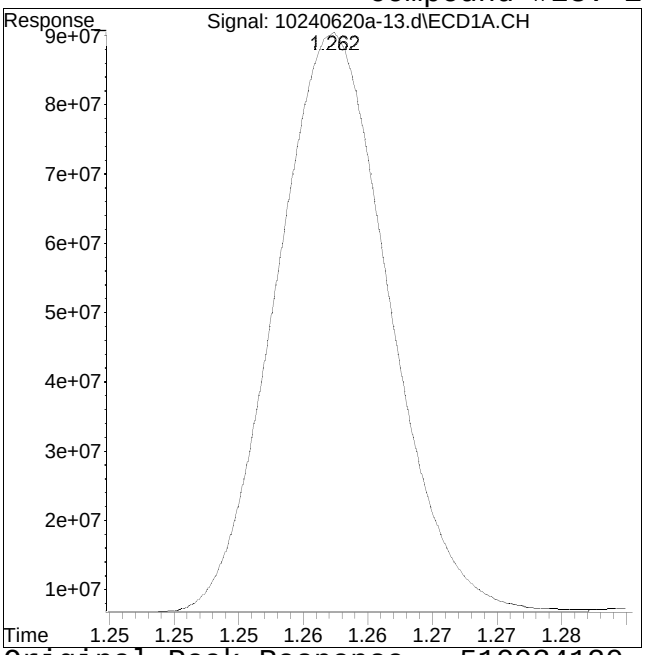


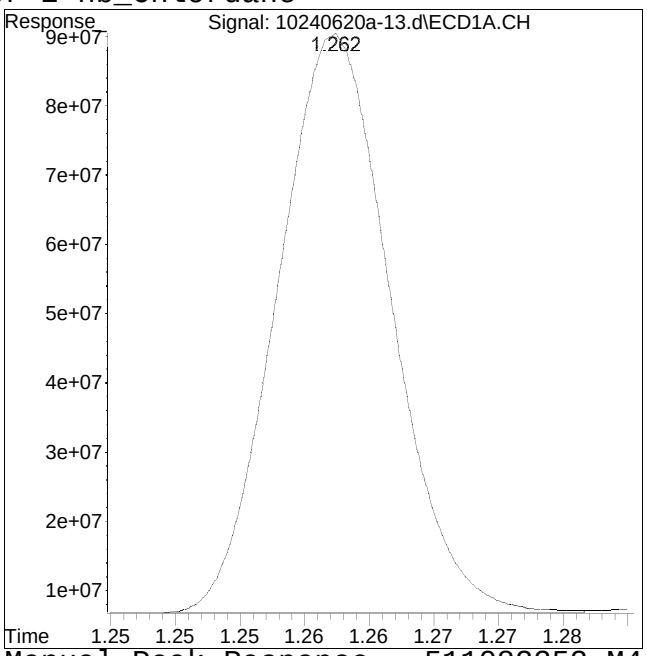
Original Peak Response = 184148682 Manual Peak Response = 183774357 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #28: 1-br-2-nb_Chlordane



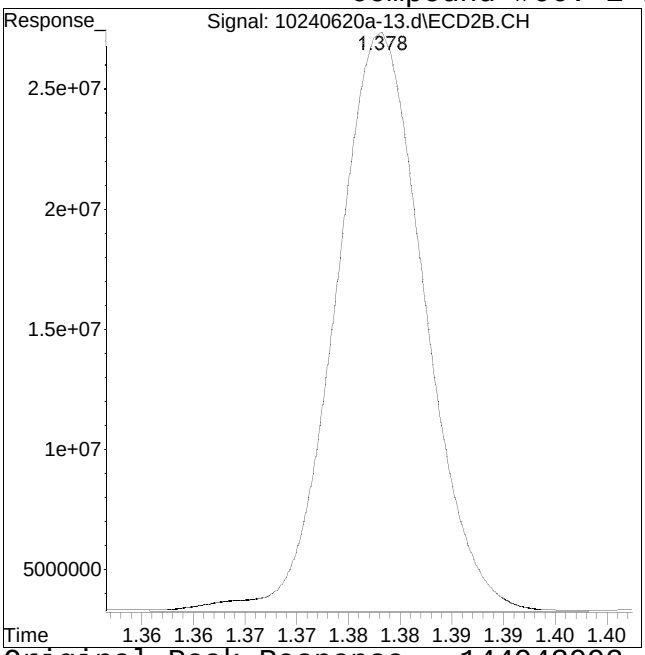


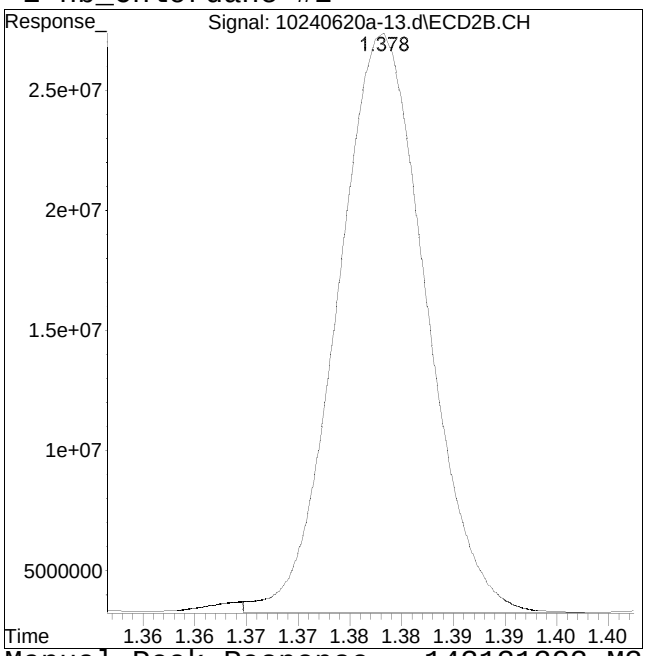
Original Peak Response = 510934120 Manual Peak Response = 511082252 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #66: 1-br-2-nb_Chlordane #2



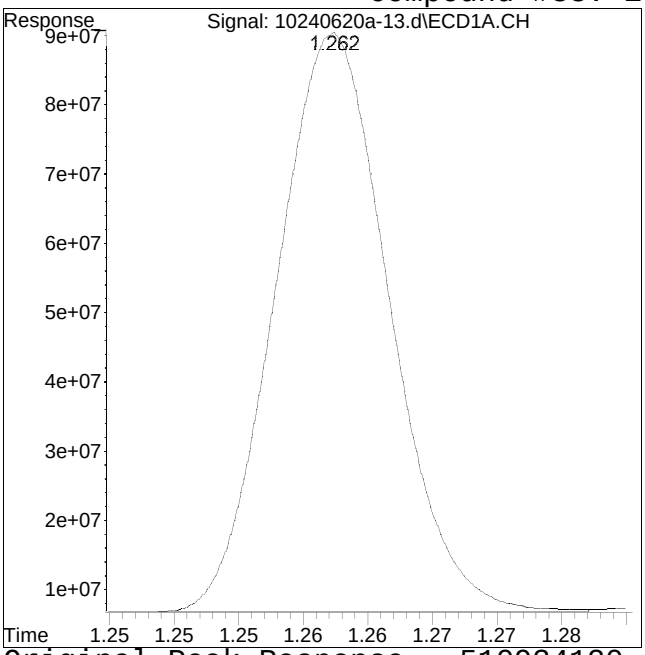


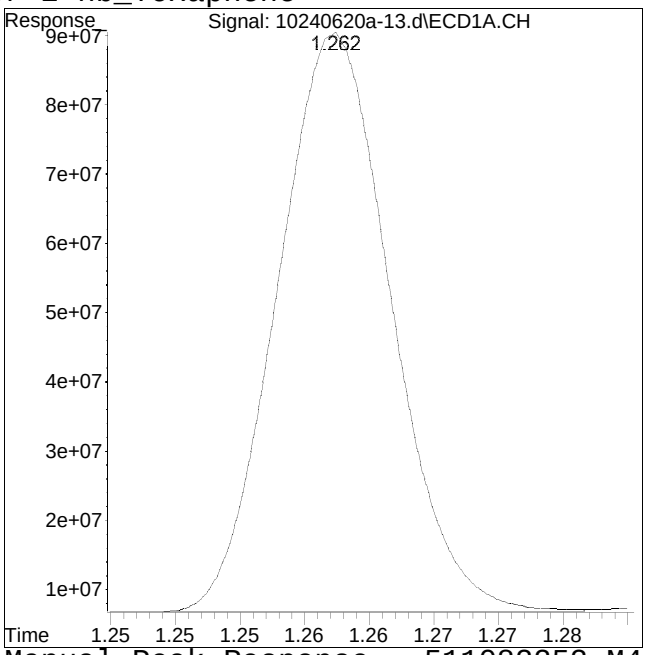
Original Peak Response = 144943992 Manual Peak Response = 143131222 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #33: 1-br-2-nb_Toxaphene



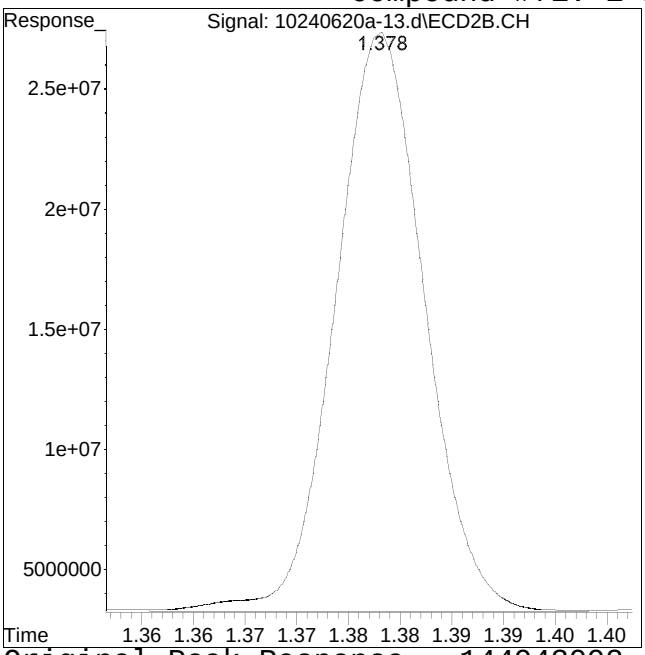


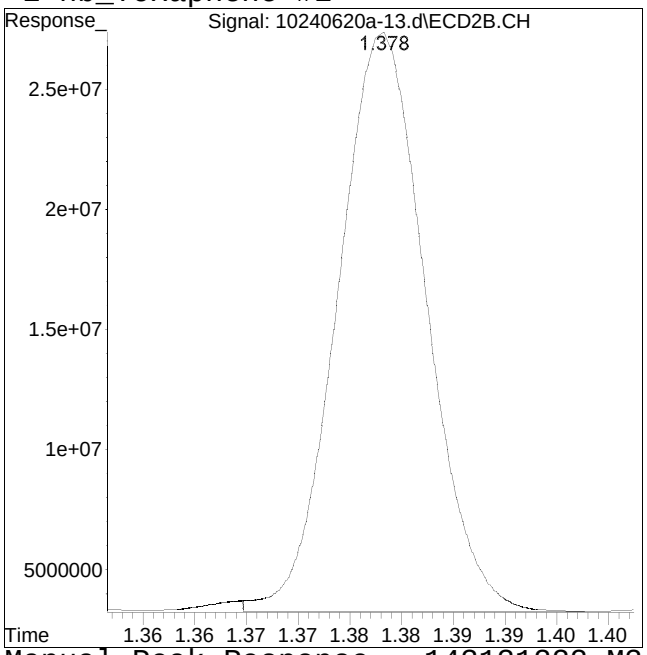
Original Peak Response = 510934120 Manual Peak Response = 511082252 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-13.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:02 Instrument : Pest 10
Sample : L2433375-04,42,, P Quant Date : 6/20/2024 9:24 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 144943992 Manual Peak Response = 143131222 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:35
Operator : PEST10:mmg
Sample : L2433375-05,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:15 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.263	1.377	534.1E6	140.9E6	25.000	25.000M4
	Standard Area 1 : #1 = 464953126				Recovery = 114.87%		
	Standard Area 1 : #2 = 137931823				Recovery = 102.15%		
28) i	1-br-2-nb_Ch	1.263	1.377	534.1E6	140.9E6	25.000	25.000M4
33) i	1-br-2-nb_To	1.263	1.377	534.1E6	140.9E6	25.000	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.600	1.859	892.2E6	240.4E6	38.482M4	45.380M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 76.96%		90.76%
27) s	Decachlorobi	6.230	6.952	820.6E6	196.2E6	47.492M4	48.159M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 94.98%		96.32%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:35
Operator : PEST10:mmg
Sample : L2433375-05,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:15 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

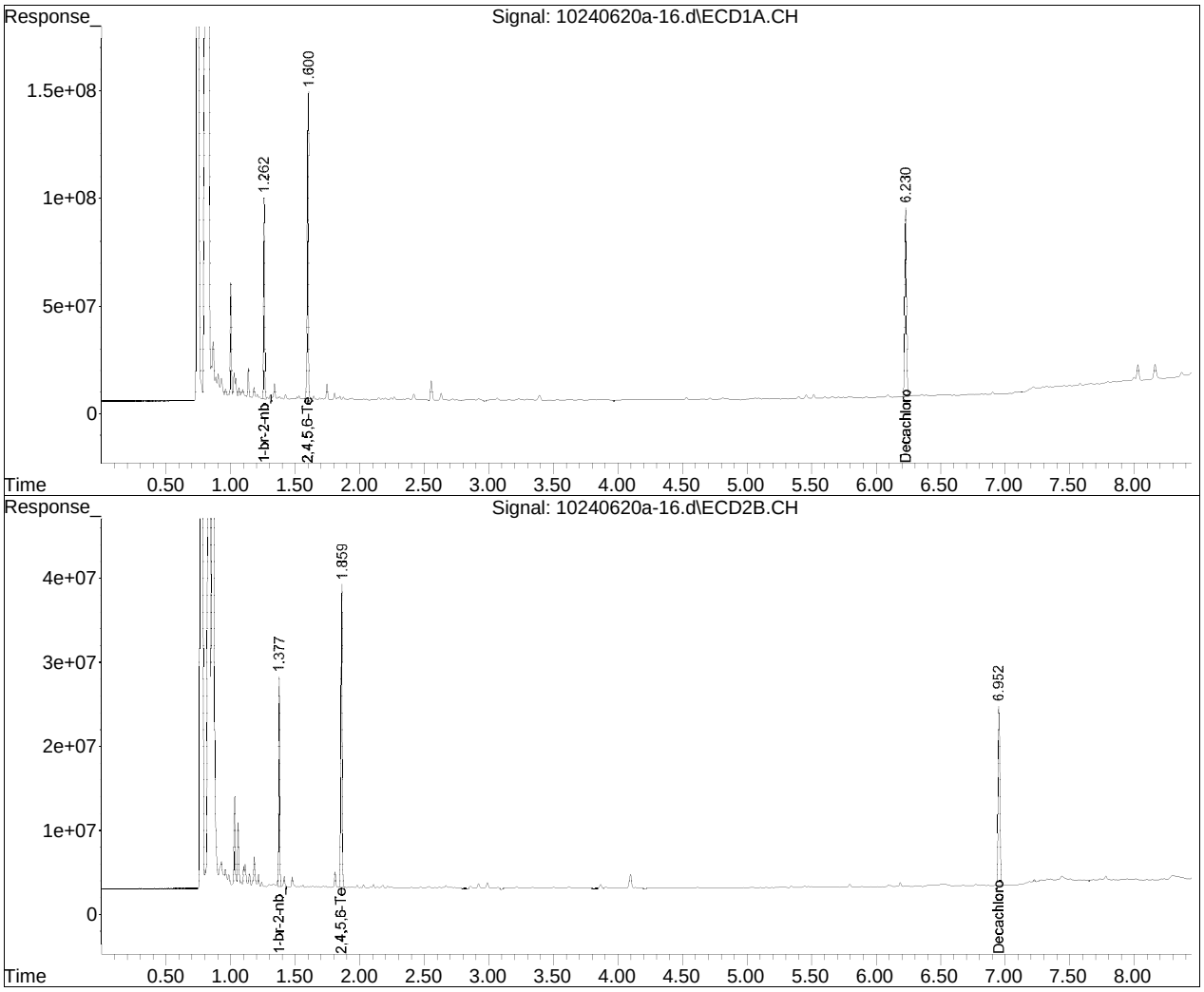
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:35
Operator : PEST10:mmg
Sample : L2433375-05,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:15 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

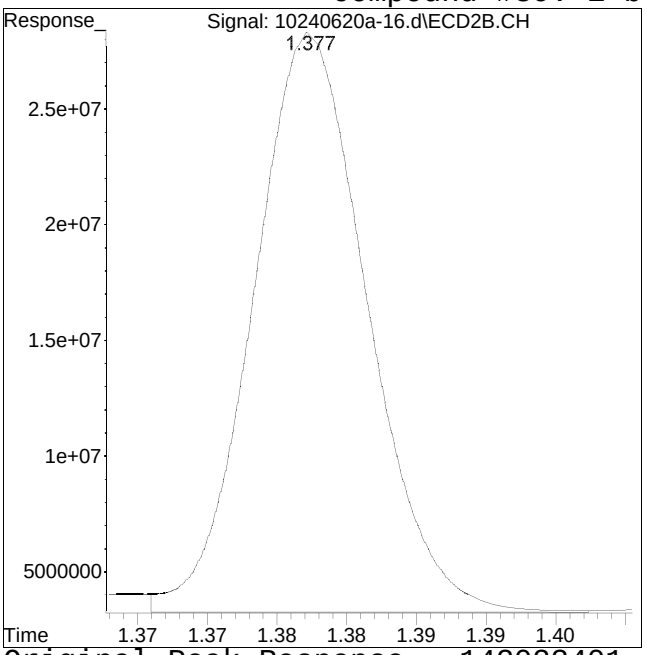
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

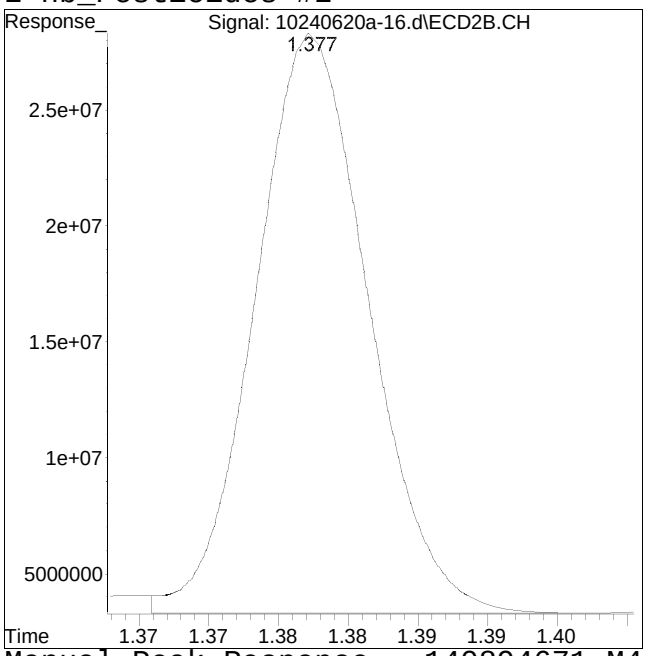


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-16.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:35 Instrument : Pest 10
Sample : L2433375-05,42,, Quant Date : 6/20/2024 10:09 am

Compound #39: 1-br-2-nb_Pesticides #2



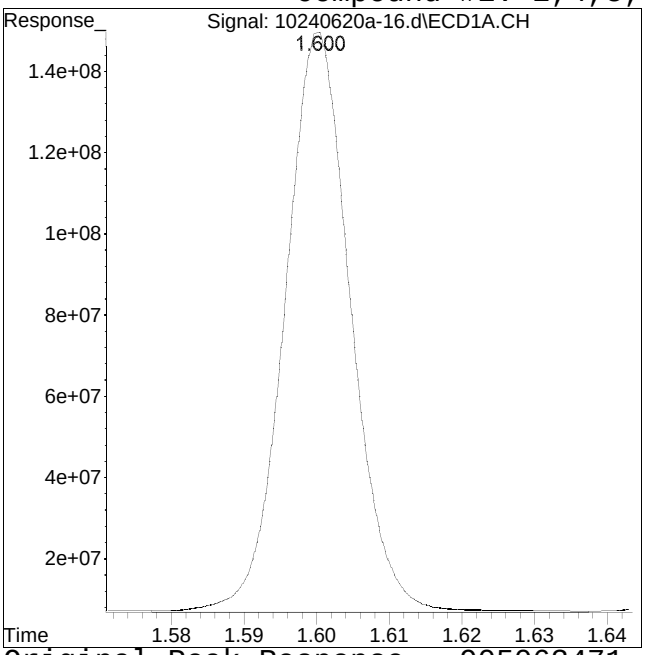


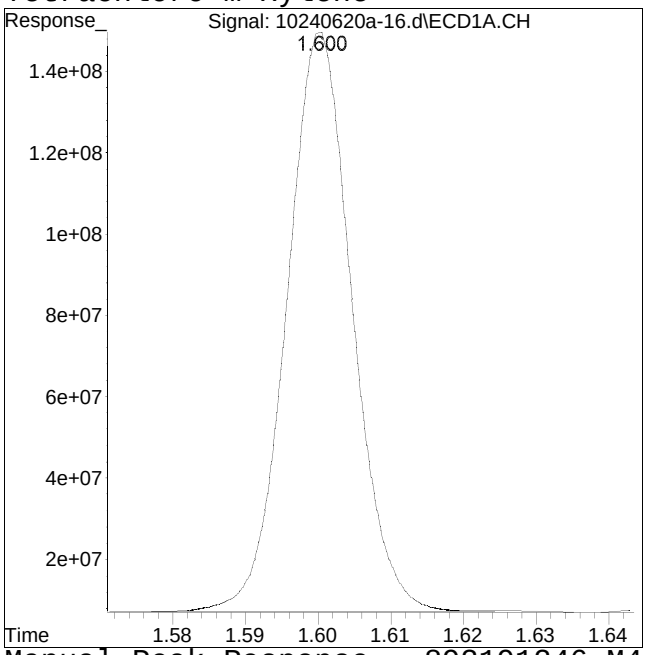
Original Peak Response = 142023401 Manual Peak Response = 140894671 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-16.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:35 Instrument : Pest 10
Sample : L2433375-05,42,, Quant Date : 6/20/2024 10:09 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



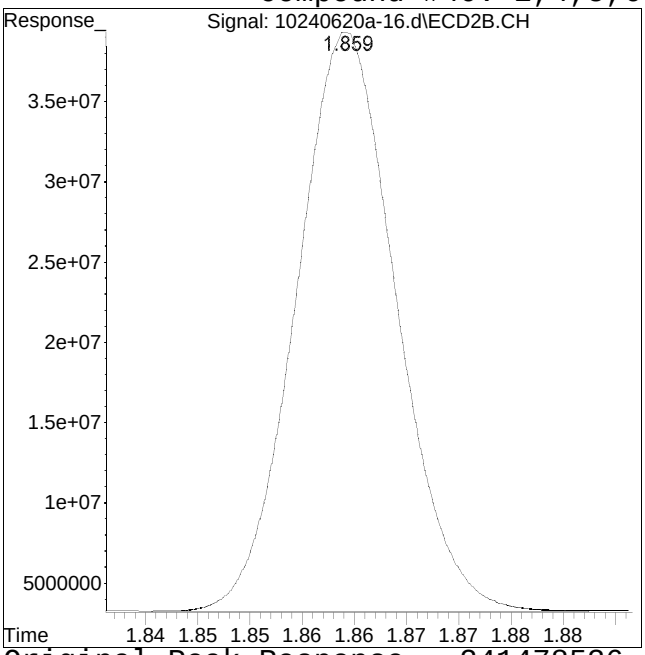


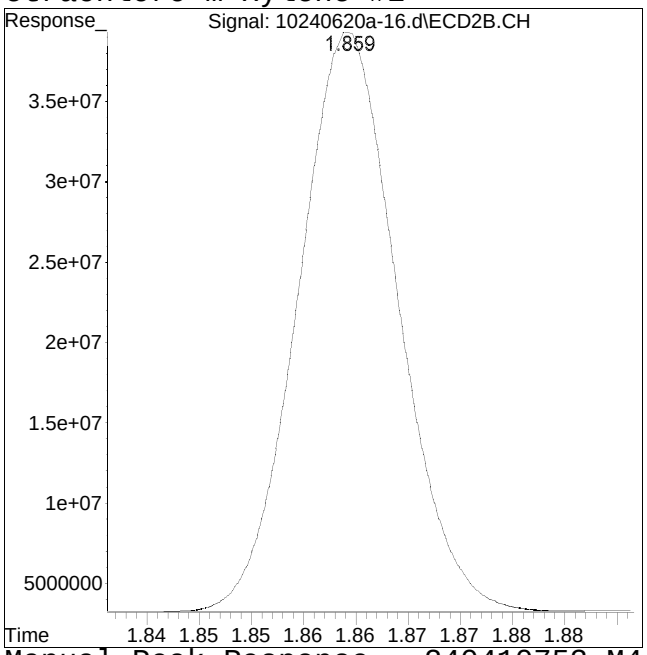
Original Peak Response = 905063471 Manual Peak Response = 892191246 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-16.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:35 Instrument : Pest 10
Sample : L2433375-05,42,, Quant Date : 6/20/2024 10:09 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



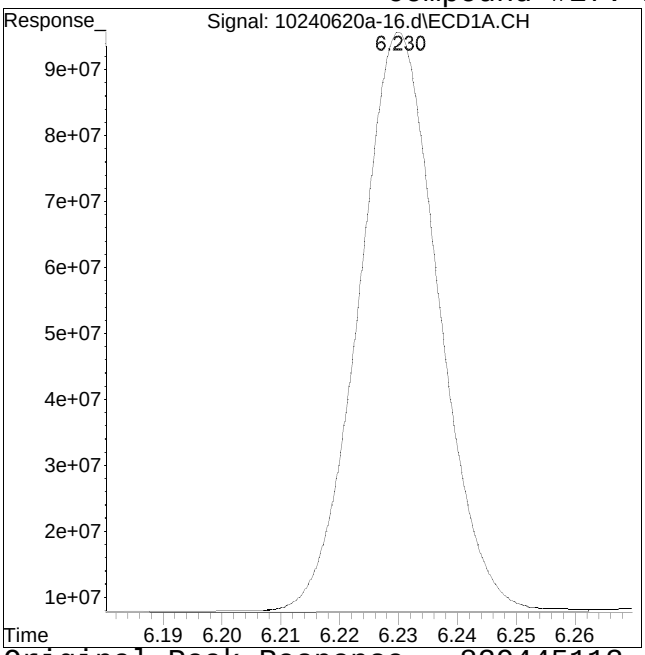


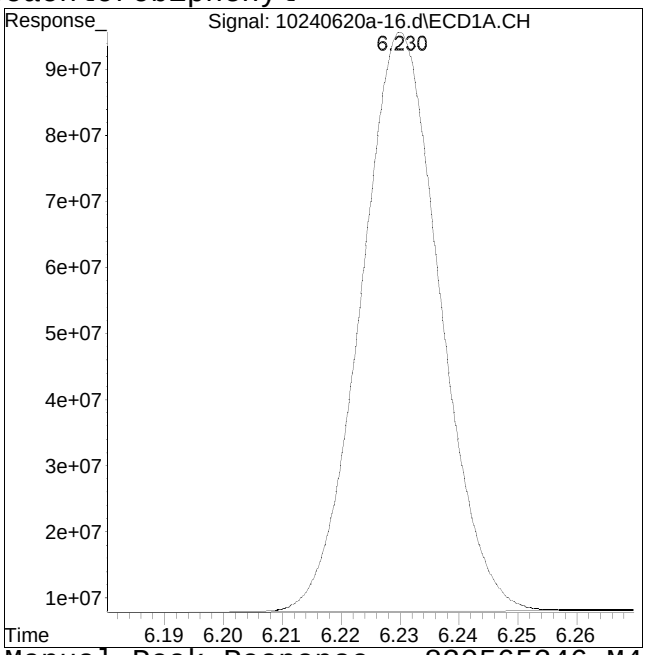
Original Peak Response = 241478536 Manual Peak Response = 240410753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-16.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:35 Instrument : Pest 10
Sample : L2433375-05,42,, Quant Date : 6/20/2024 10:09 am

Compound #27: Decachlorobiphenyl



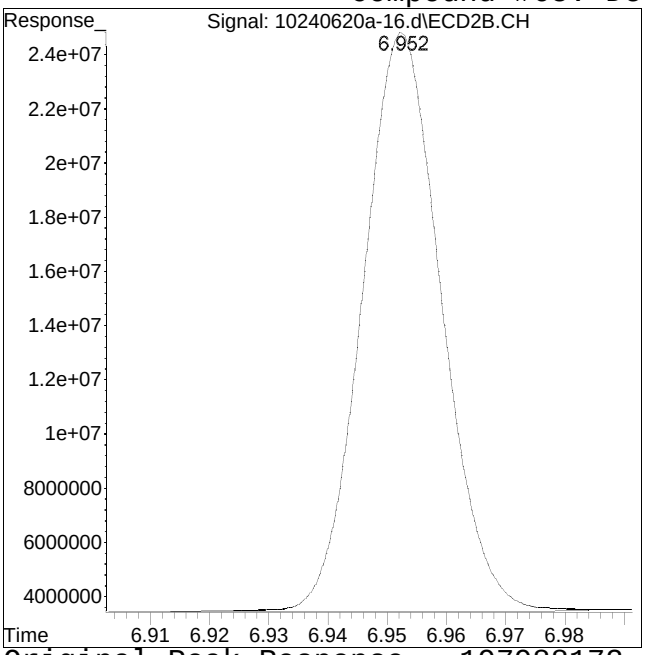


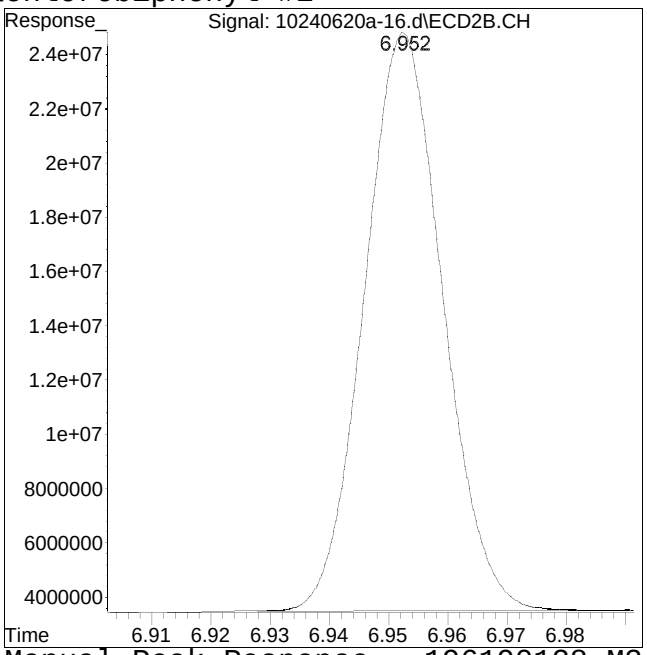
Original Peak Response = 829445113 Manual Peak Response = 820565246 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-16.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:35 Instrument : Pest 10
Sample : L2433375-05,42,, Quant Date : 6/20/2024 10:09 am

Compound #65: Decachlorobiphenyl #2



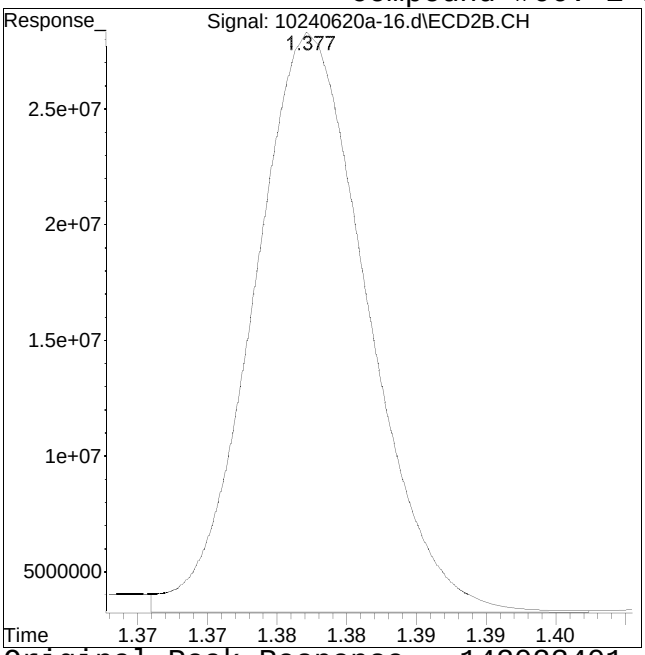


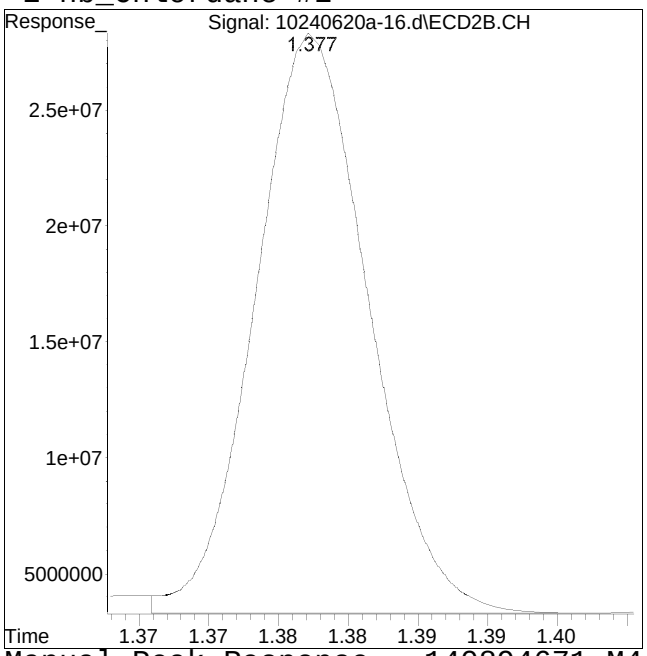
Original Peak Response = 197988172 Manual Peak Response = 196190128 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-16.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:35 Instrument : Pest 10
Sample : L2433375-05,42,, Quant Date : 6/20/2024 10:09 am

Compound #66: 1-br-2-nb_Chlordane #2



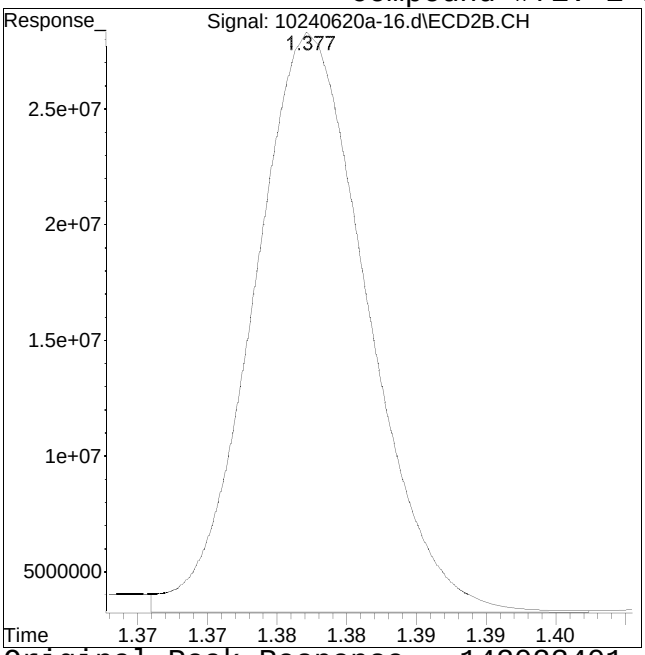


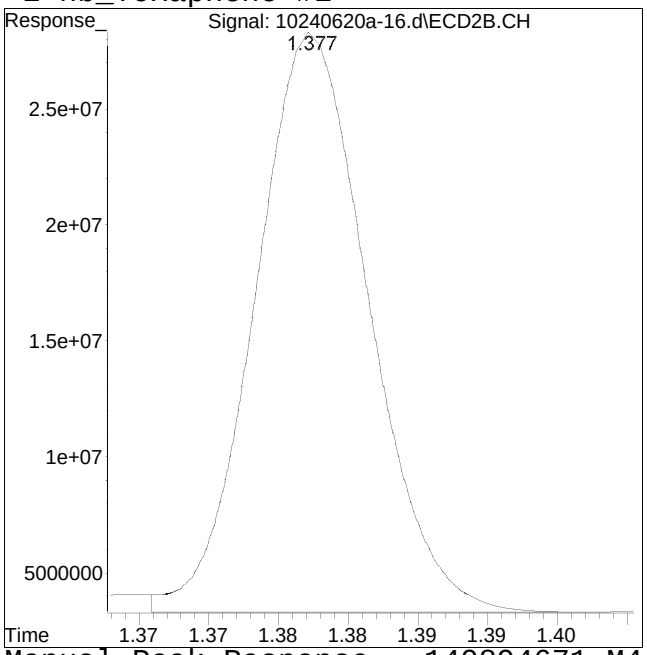
Original Peak Response = 142023401 Manual Peak Response = 140894671 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-16.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:35 Instrument : Pest 10
Sample : L2433375-05,42,, Quant Date : 6/20/2024 10:09 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 142023401 Manual Peak Response = 140894671 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:46
Operator : PEST10:mmg
Sample : L2433375-06,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:18 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.263	1.378	525.6E6	142.2E6	25.000	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery =	113.04%	
	Standard Area 1 : #2 = 137931823				Recovery =	103.06%	
28) i	1-br-2-nb_Ch	1.263	1.378	525.6E6	142.2E6	25.000	25.000M3
33) i	1-br-2-nb_To	1.263	1.378	525.6E6	142.2E6	25.000	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.599	1.859	907.6E6	240.6E6	39.781M3	45.016M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	79.56%	90.03%
27) s	Decachlorobi	6.229	6.951	812.8E6	198.4E6	47.813M4	48.269M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	95.63%	96.54%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:46
Operator : PEST10:mmg
Sample : L2433375-06,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:18 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

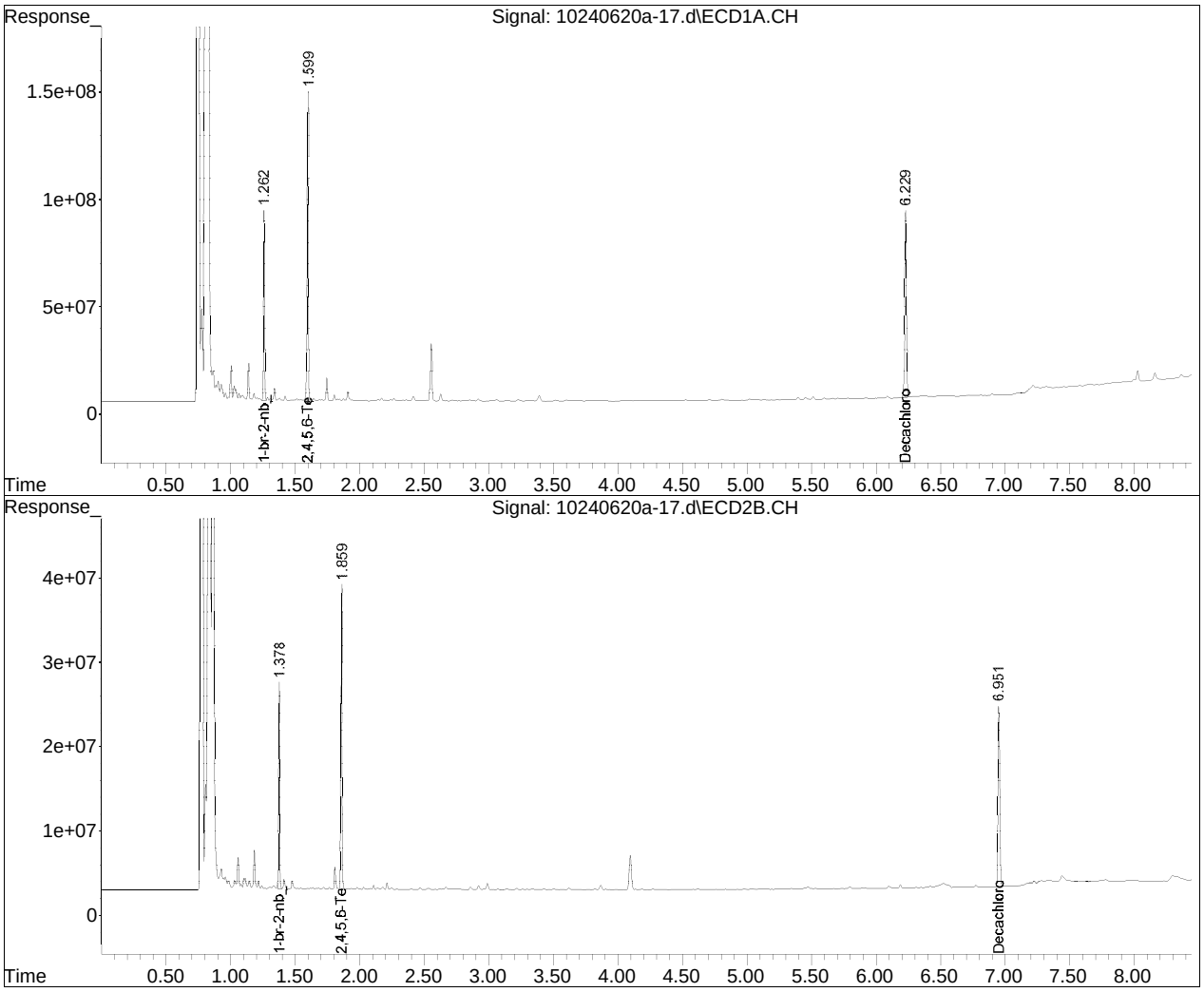
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:46
Operator : PEST10:mmg
Sample : L2433375-06,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:18 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

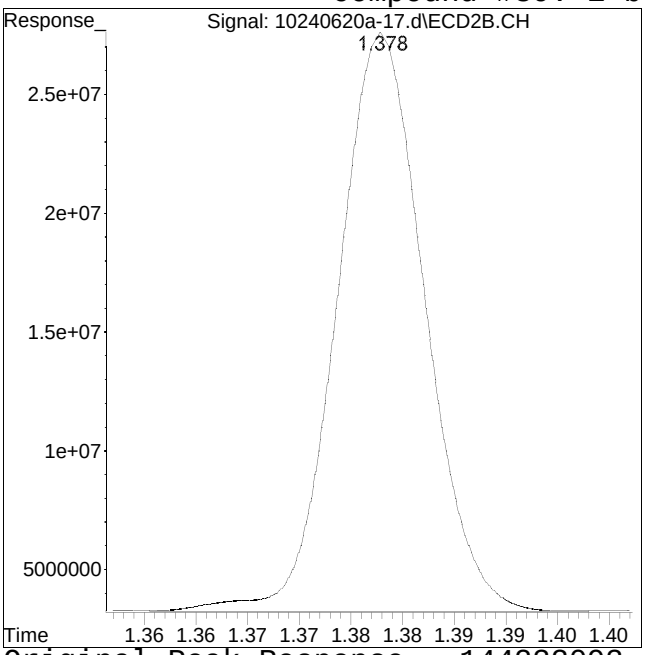
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

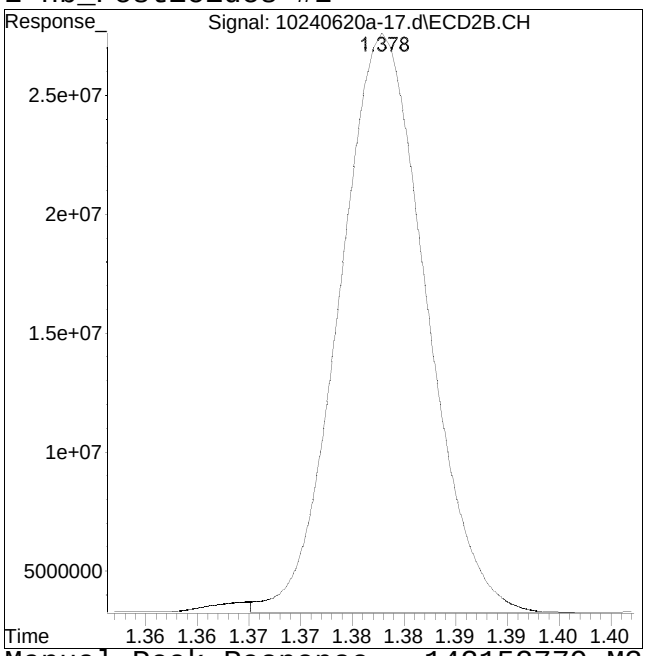


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-17.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:46 Instrument : Pest 10
Sample : L2433375-06,42,, Quant Date : 6/20/2024 10:09 am

Compound #39: 1-br-2-nb_Pesticides #2



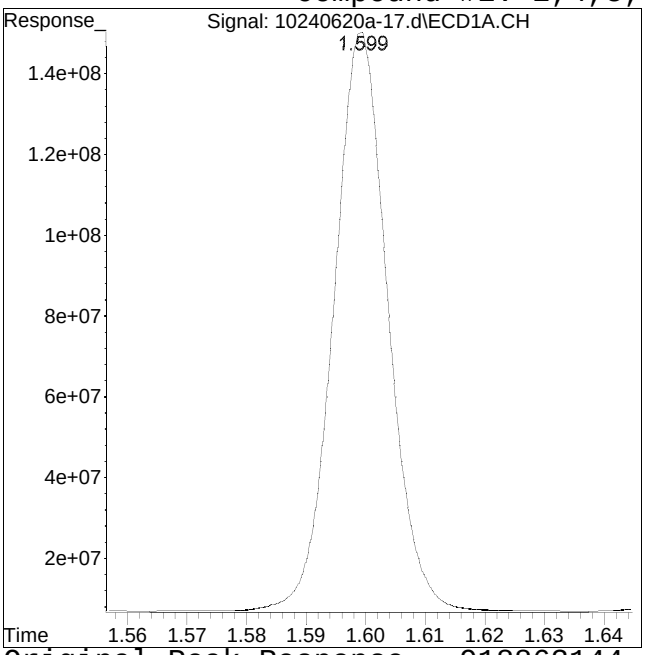


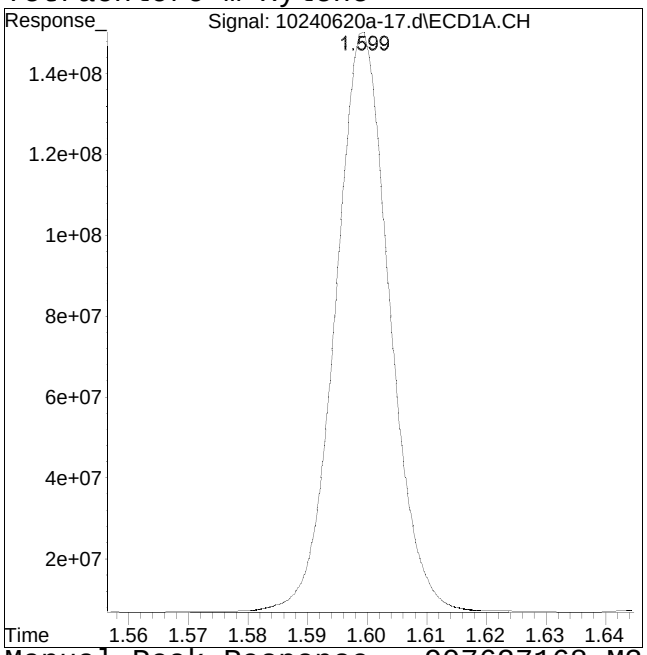
Original Peak Response = 144232093 Manual Peak Response = 142152779 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-17.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:46 Instrument : Pest 10
Sample : L2433375-06,42,, Quant Date : 6/20/2024 10:09 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





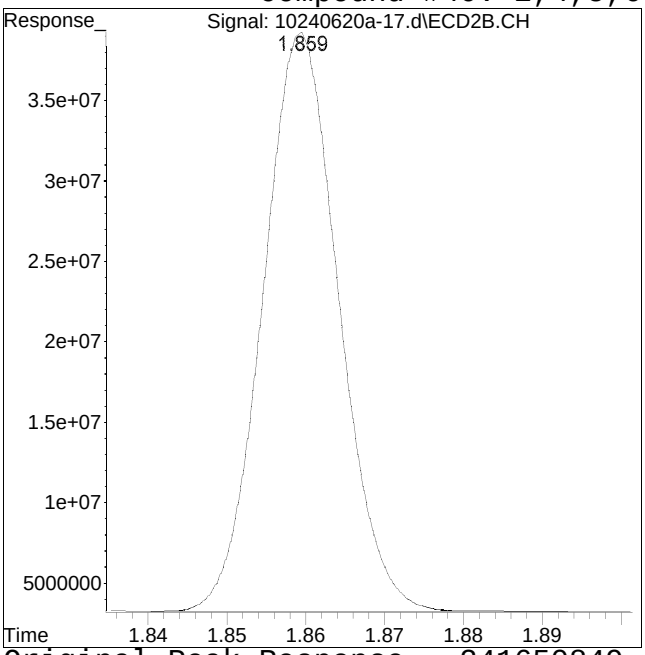
Original Peak Response = 918863144 Manual Peak Response = 907627168 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

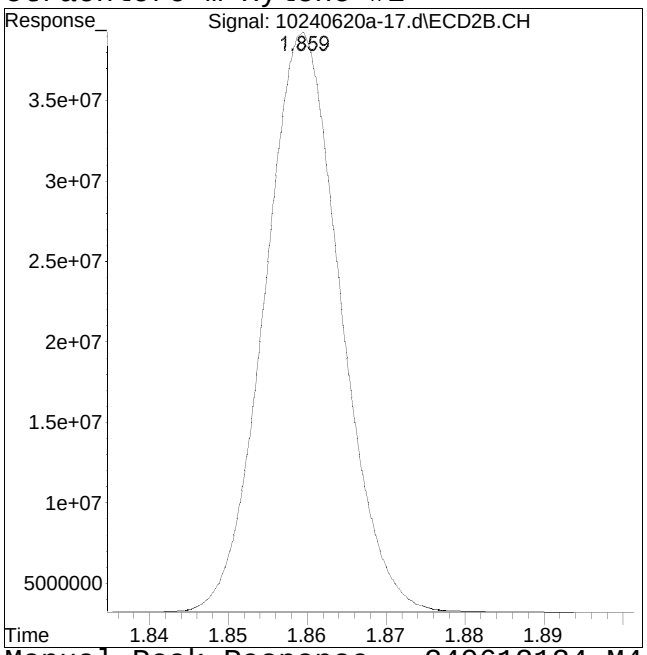
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-17.d
Date Inj'd : 6/20/2024 9:46
Sample : L2433375-06,42,,

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 10:09 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 241650849



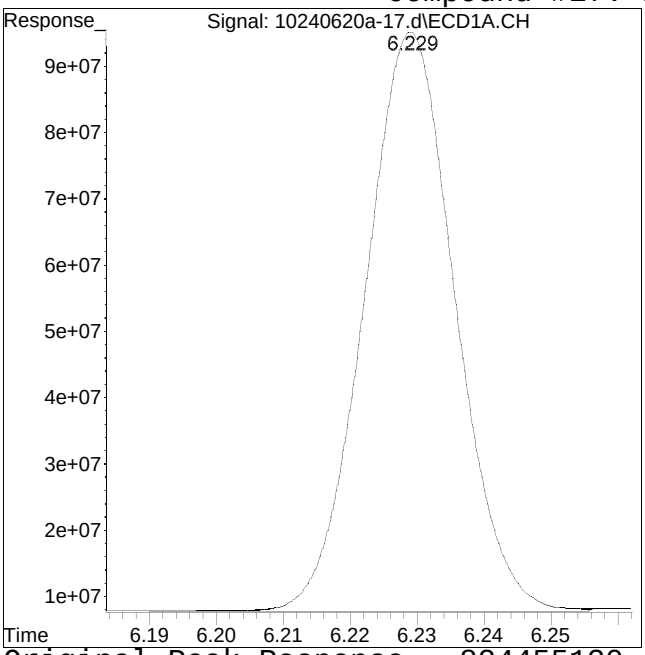
Manual Peak Response = 240612124 M4

M4 = Poor automated baseline construction.

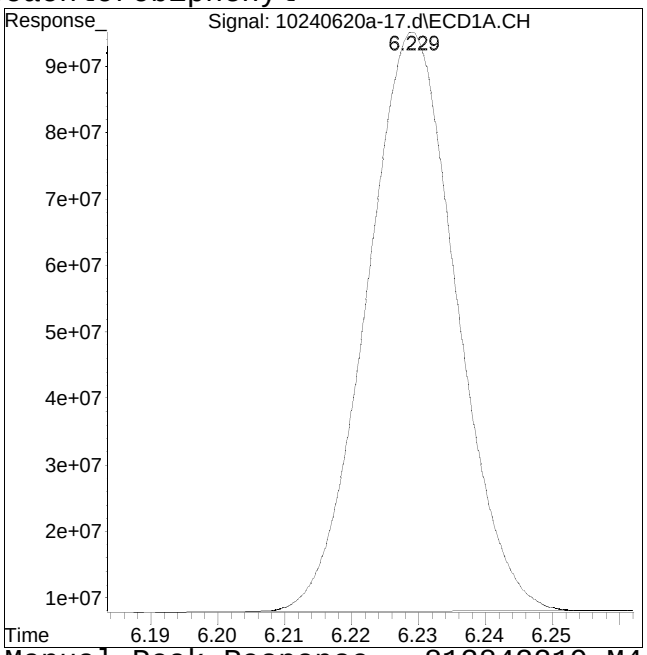
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-17.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:46 Instrument : Pest 10
Sample : L2433375-06,42,, Quant Date : 6/20/2024 10:09 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 824455130



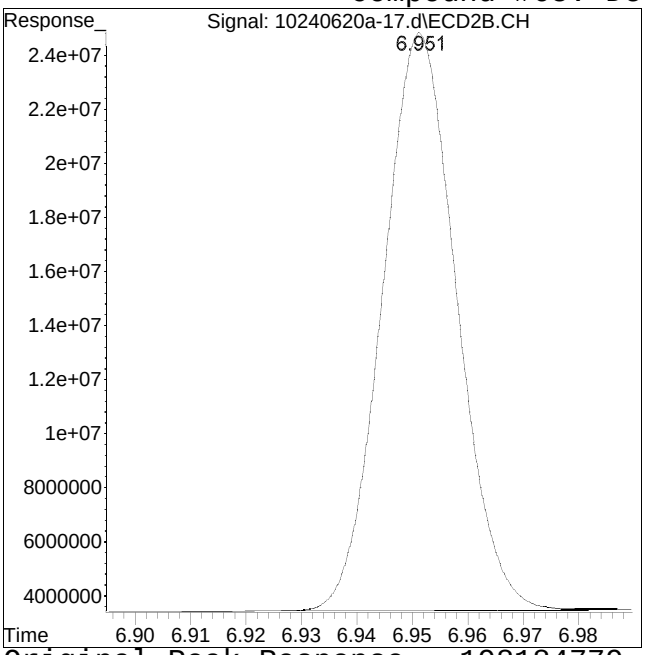
Manual Peak Response = 812842219 M4

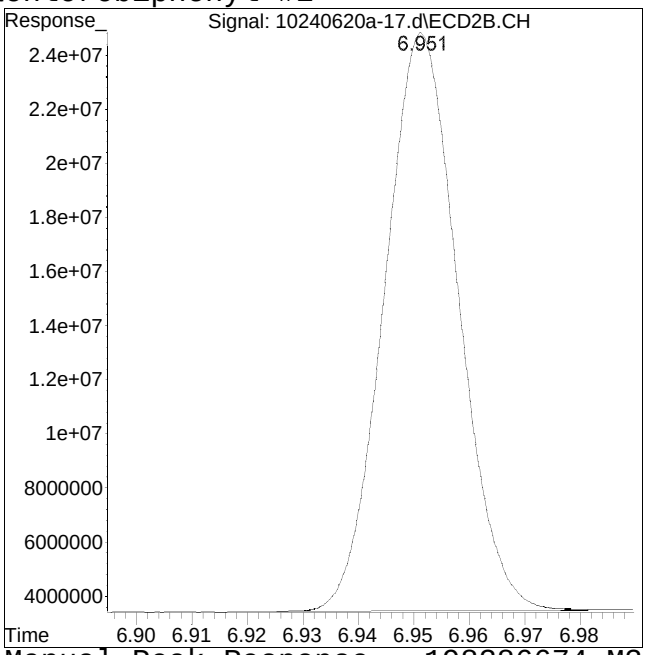
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-17.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:46 Instrument : Pest 10
Sample : L2433375-06,42,, Quant Date : 6/20/2024 10:09 am

Compound #65: Decachlorobiphenyl #2



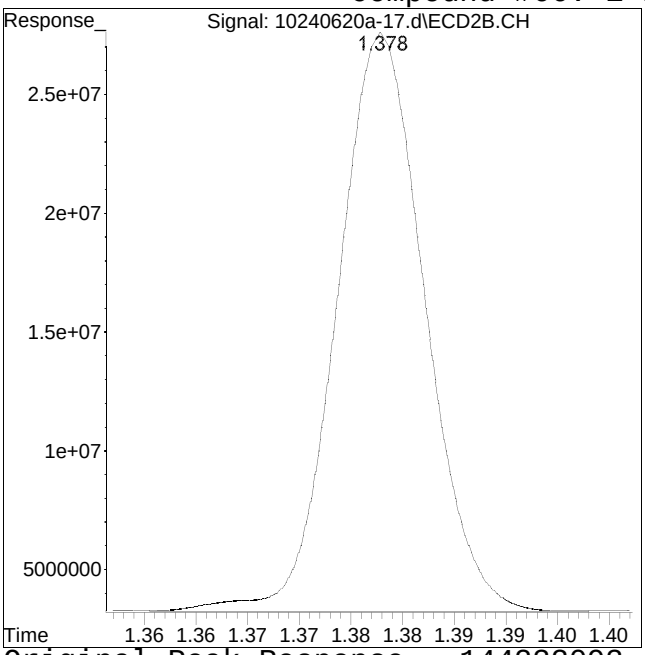


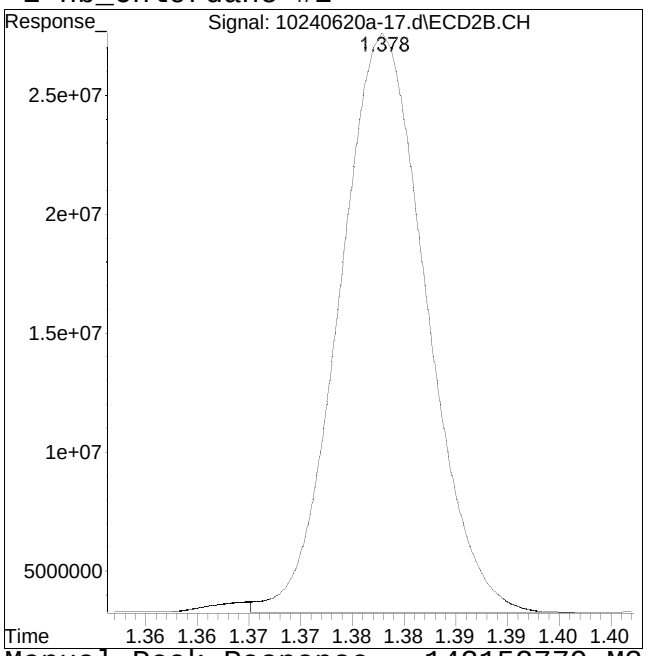
Original Peak Response = 198184779 Manual Peak Response = 198386674 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-17.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:46 Instrument : Pest 10
Sample : L2433375-06,42,, Quant Date : 6/20/2024 10:09 am

Compound #66: 1-br-2-nb_Chlordane #2



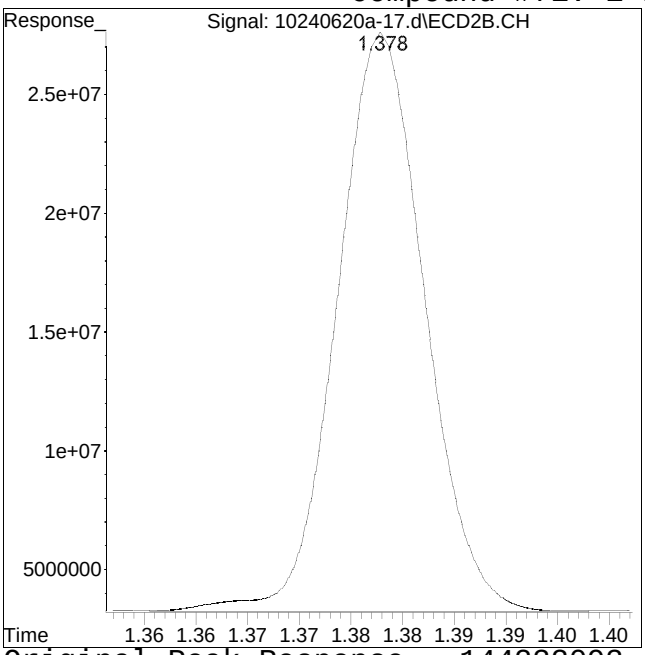


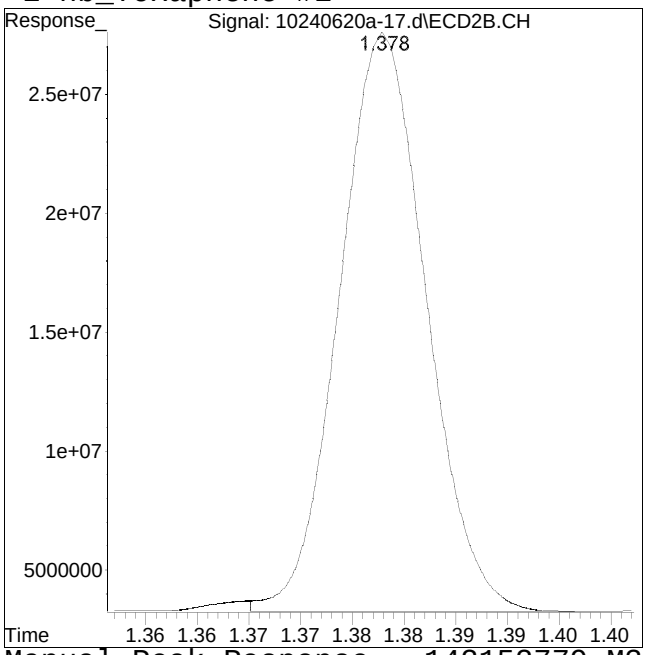
Original Peak Response = 144232093 Manual Peak Response = 142152779 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-17.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:46 Instrument : Pest 10
Sample : L2433375-06,42,, Quant Date : 6/20/2024 10:09 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 144232093 Manual Peak Response = 142152779 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:57
Operator : PEST10:mmg
Sample : L2433375-07,42,,
Misc : WG1936891,WG1936774,ical21109 (Sig #1); WG1936891,WG1936776,ical21109 (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:21 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.378	534.7E6	143.9E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 115.01%		
	Standard Area 1 : #2 = 137931823				Recovery = 104.34%		
28) i	1-br-2-nb_Ch	1.262	1.378	534.7E6	143.9E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.262	1.378	534.7E6	143.9E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.599	1.860	867.5E6	236.6E6	37.369M4	43.722M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 74.74%		87.44%
27) s	Decachlorobi	6.229	6.954	737.5E6	179.2E6	42.531M4	42.960M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 85.06%		85.92%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:57
Operator : PEST10:mmg
Sample : L2433375-07,42,,
Misc : WG1936891,WG1936774,ical21109 (Sig #1); WG1936891,WG1936776,ical21109 (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:21 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

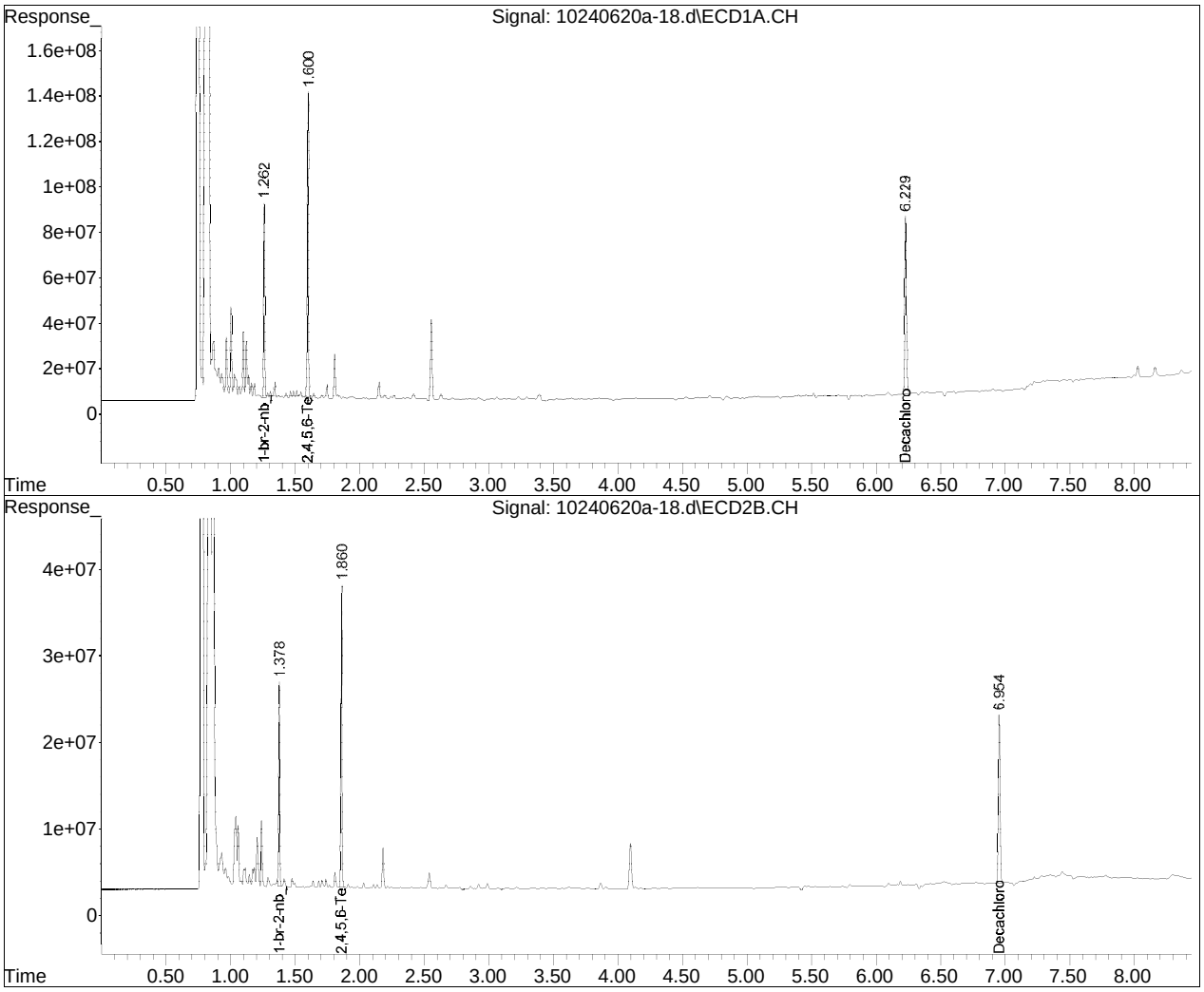
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:57
Operator : PEST10:mmg
Sample : L2433375-07,42,,
Misc : WG1936891,WG1936774,ical21109 (Sig #1); WG1936891,WG1936776,ical21
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:09:21 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

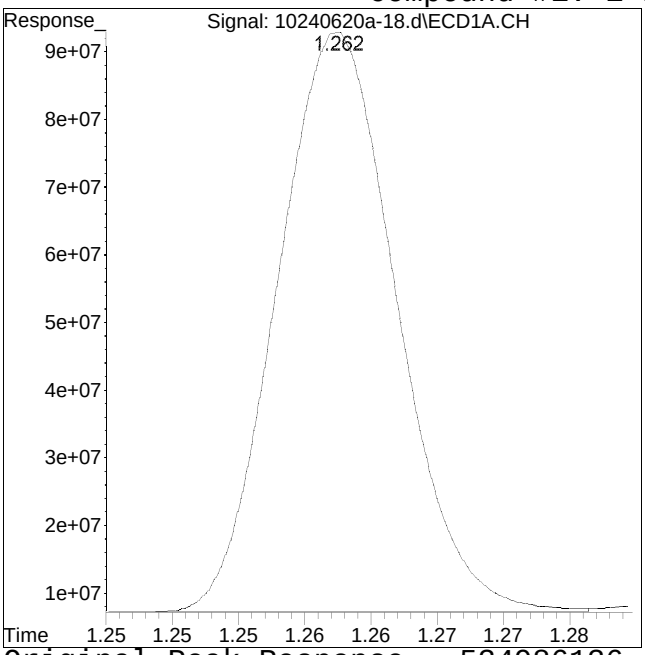
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



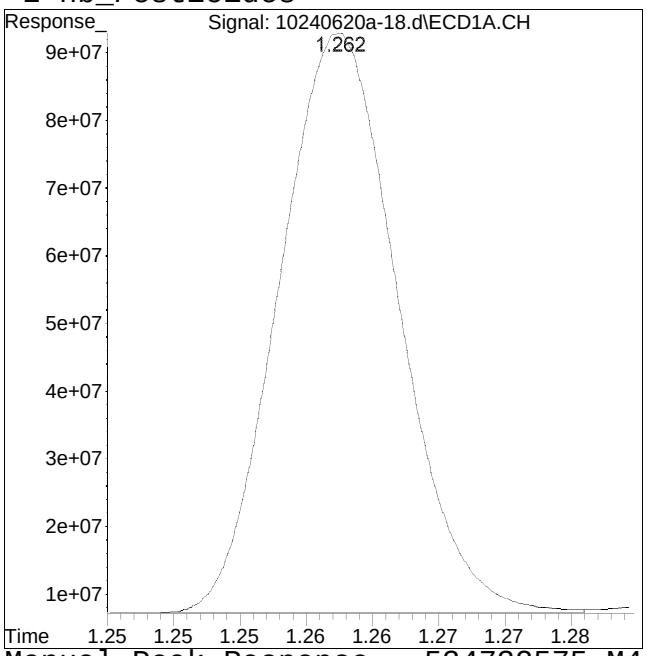
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 534986136



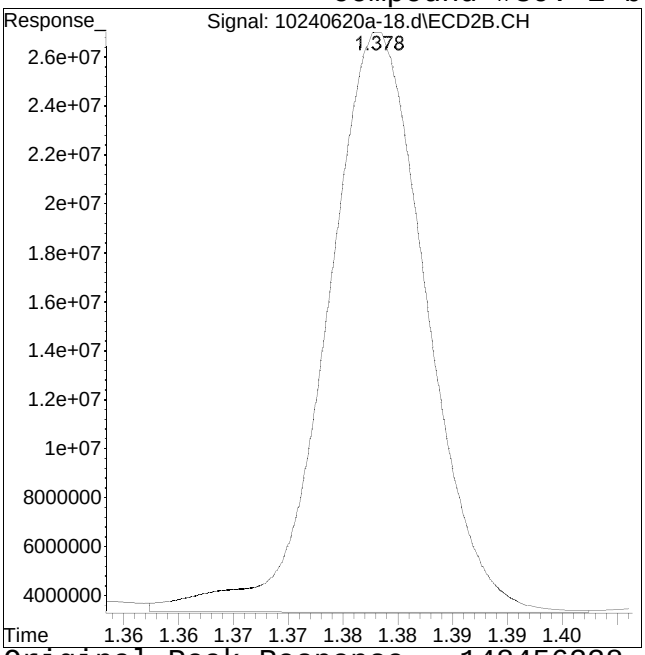
Manual Peak Response = 534732575 M4

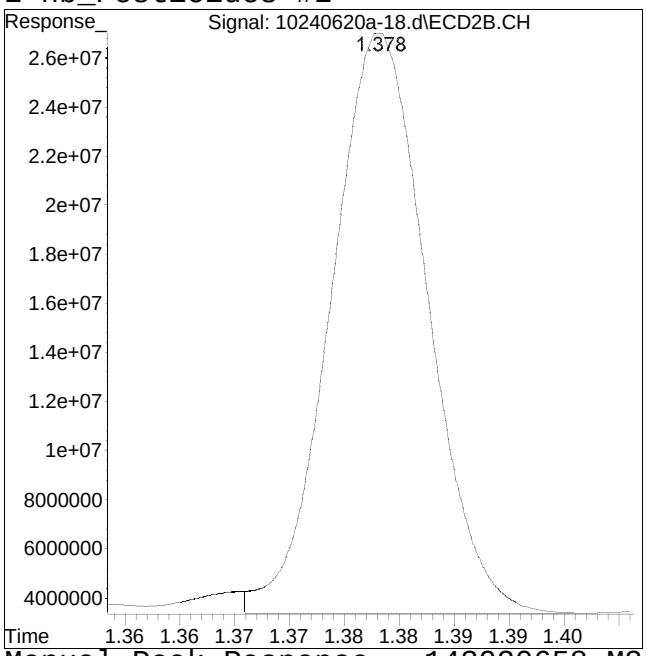
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #39: 1-br-2-nb_Pesticides #2



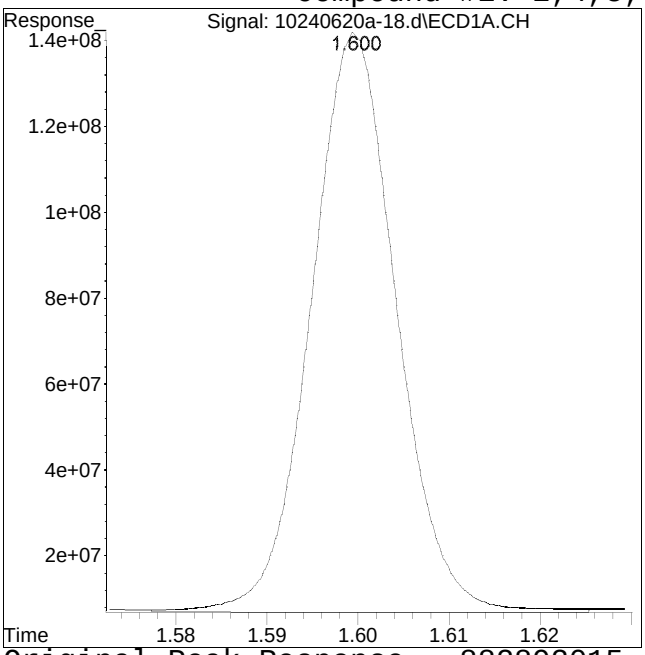


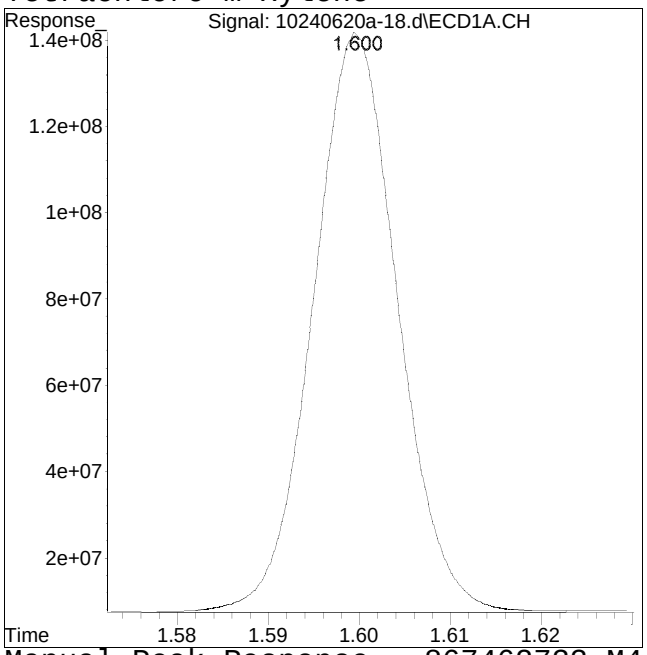
Original Peak Response = 148456338 Manual Peak Response = 143920658 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





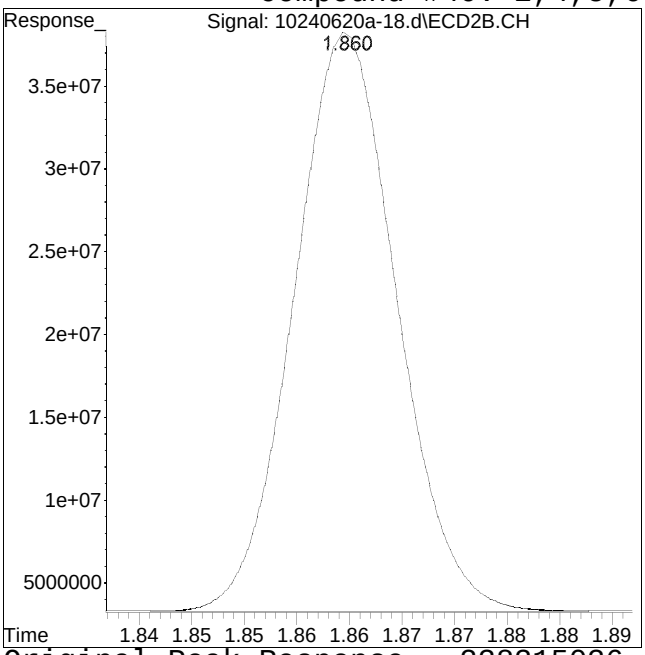
Original Peak Response = 882892015 Manual Peak Response = 867462733 M4
M4 = Poor automated baseline construction.

Manual Integration Report

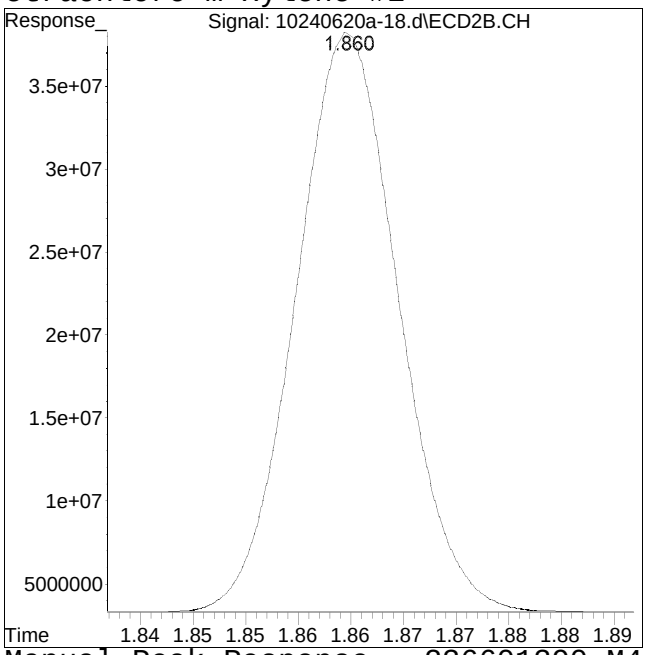
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-18.d
Date Inj'd : 6/20/2024 9:57
Sample : L2433375-07,42,,

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 10:09 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 238315036



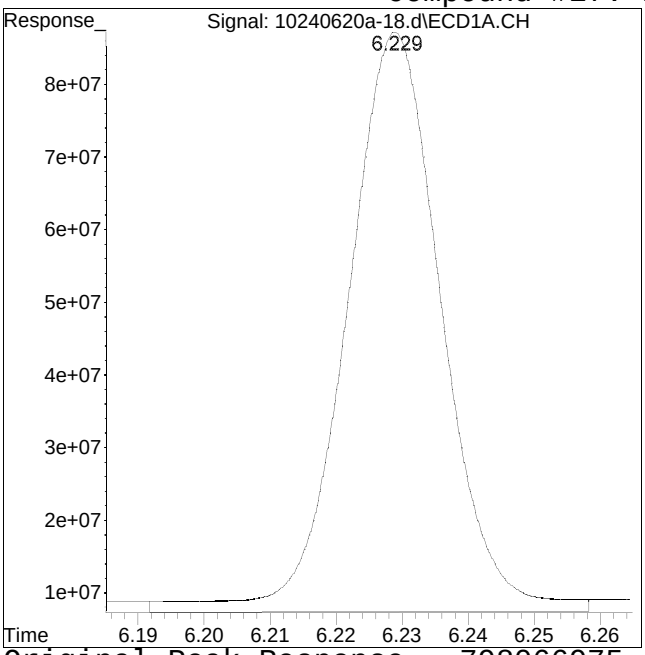
Manual Peak Response = 236601390 M4

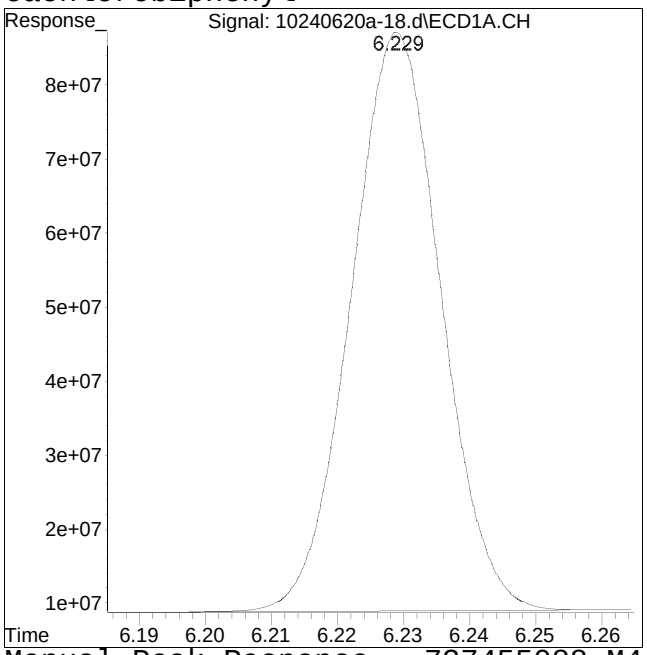
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #27: Decachlorobiphenyl





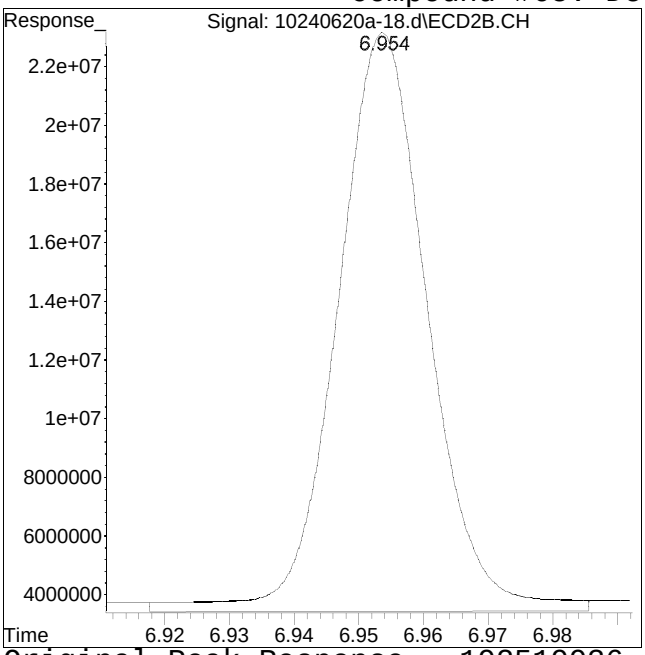
Original Peak Response = 798066975 Manual Peak Response = 737455088 M4
M4 = Poor automated baseline construction.

Manual Integration Report

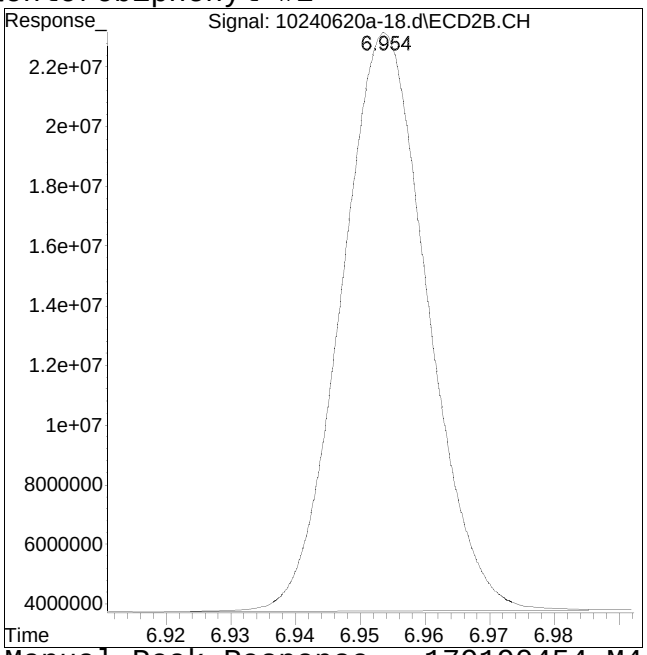
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-18.d
Date Inj'd : 6/20/2024 9:57
Sample : L2433375-07,42,,

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 10:09 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 192519936



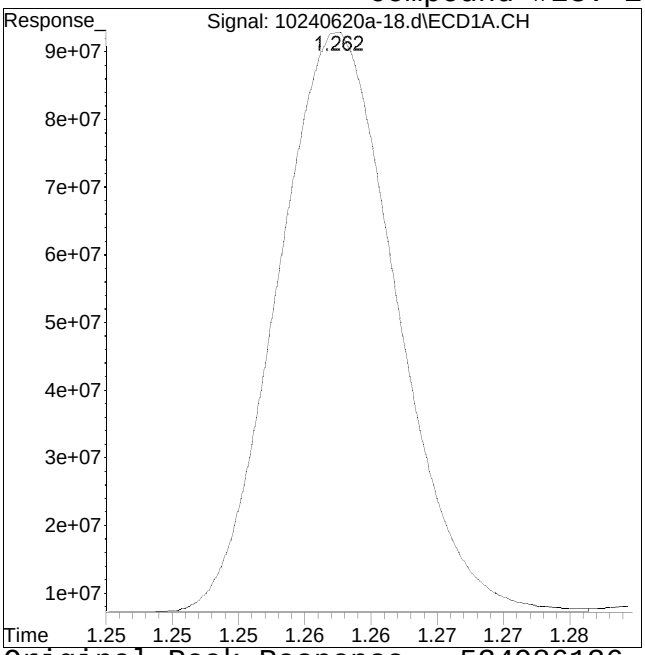
Manual Peak Response = 179190454 M4

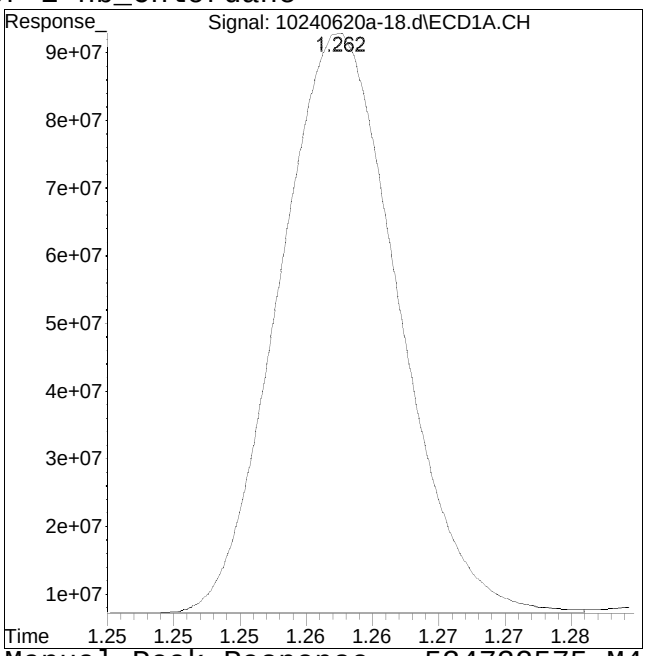
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #28: 1-br-2-nb_Chlordane



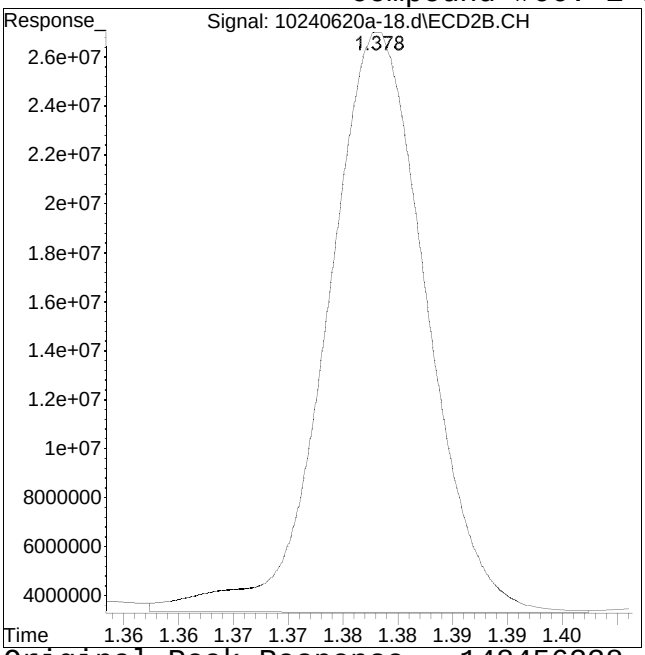


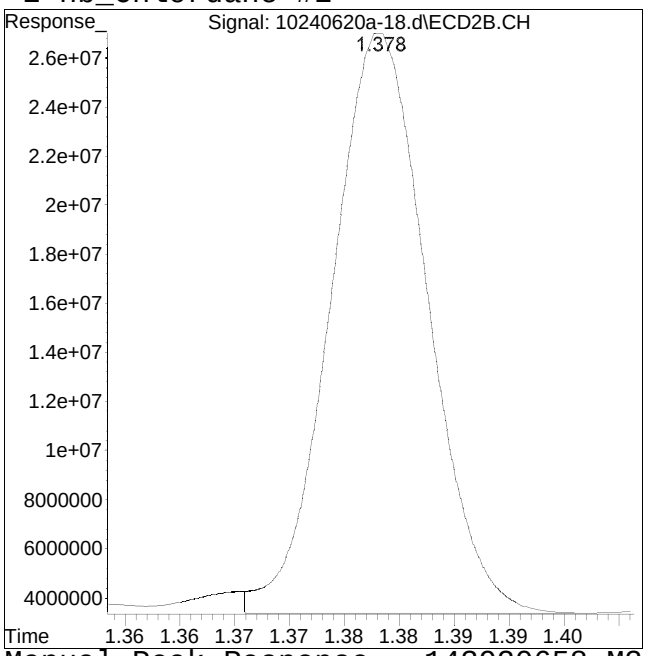
Original Peak Response = 534986136 Manual Peak Response = 534732575 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #66: 1-br-2-nb_Chlordane #2



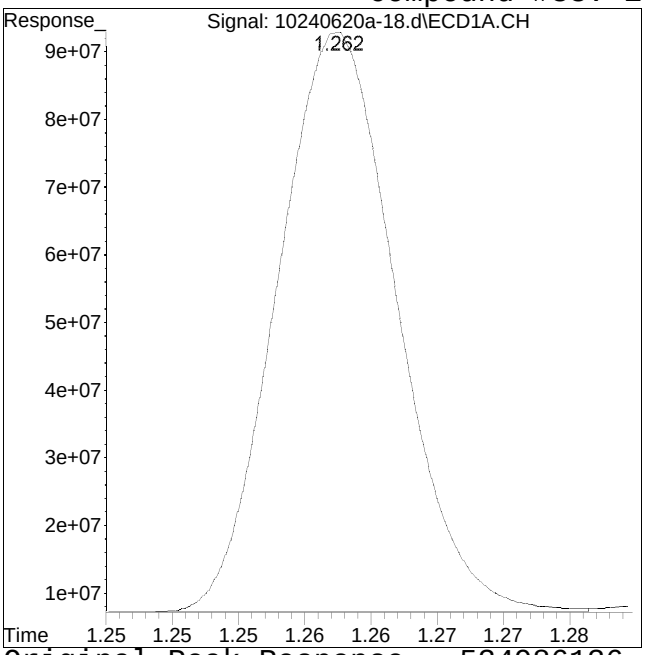


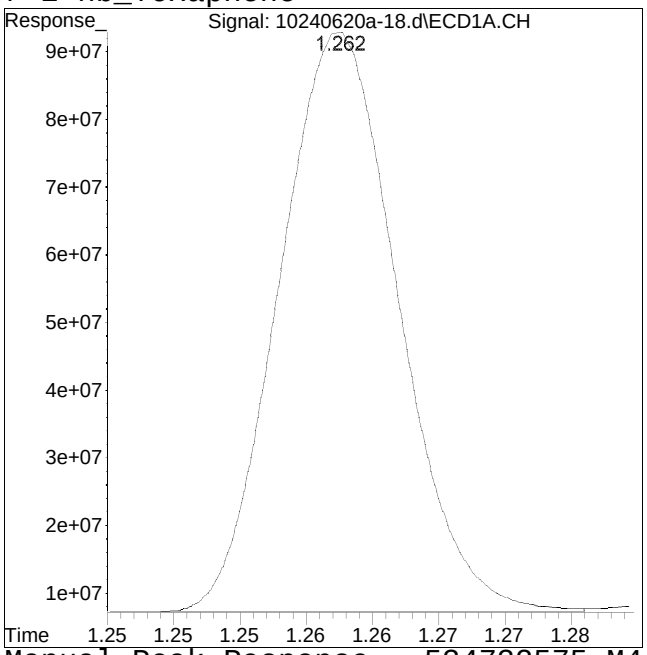
Original Peak Response = 148456338 Manual Peak Response = 143920658 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #33: 1-br-2-nb_Toxaphene



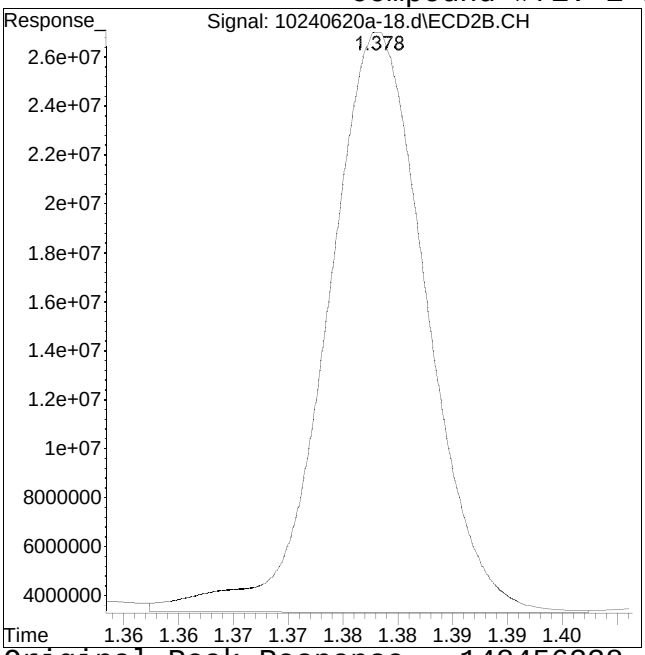


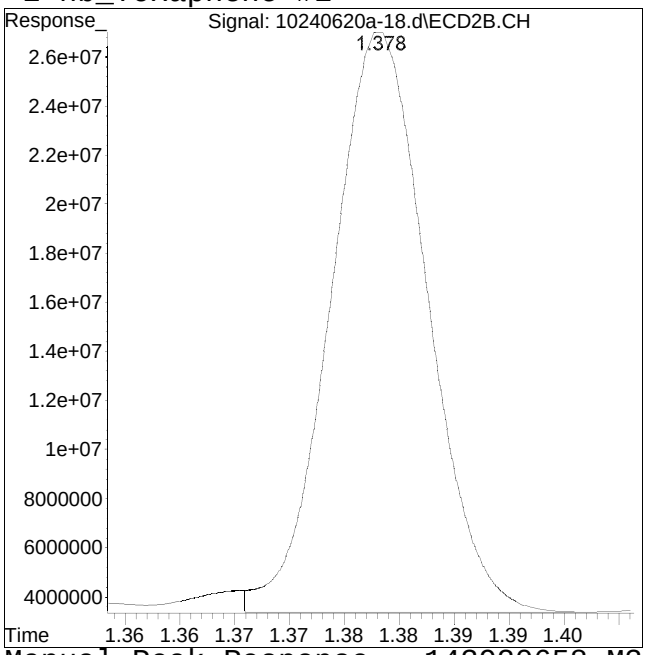
Original Peak Response = 534986136 Manual Peak Response = 534732575 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-18.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:57 Instrument : Pest 10
Sample : L2433375-07,42,, Quant Date : 6/20/2024 10:09 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 148456338 Manual Peak Response = 143920658 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:09
Operator : PEST10:mmg
Sample : L2433375-08,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:36:17 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.263	1.378	553.5E6	146.2E6	25.000	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 119.04%		
	Standard Area 1 : #2 = 137931823				Recovery = 105.97%		
28) i	1-br-2-nb_Ch	1.263	1.378	553.5E6	146.2E6	25.000	25.000M3
33) i	1-br-2-nb_To	1.263	1.378	553.5E6	146.2E6	25.000	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.600	1.860	942.2E6	253.0E6	39.214M4	46.035M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 78.43%		92.07%
27) s	Decachlorobi	6.229	6.953	739.5E6	199.9E6	41.173M3	47.283M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 82.35%		94.57%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:09
Operator : PEST10:mmg
Sample : L2433375-08,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:36:17 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

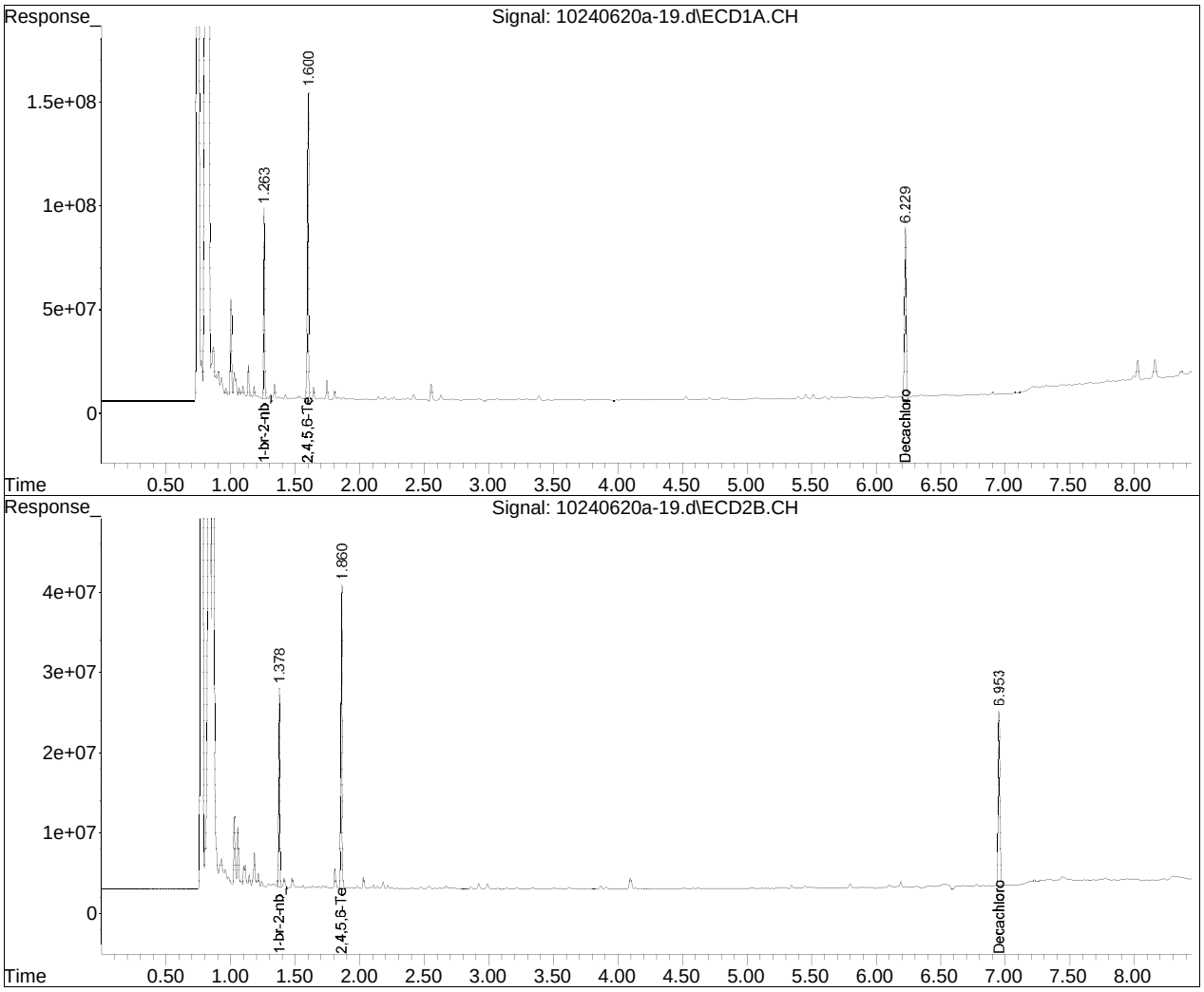
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 10:09
Operator : PEST10:mmg
Sample : L2433375-08,42,,
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:36:17 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

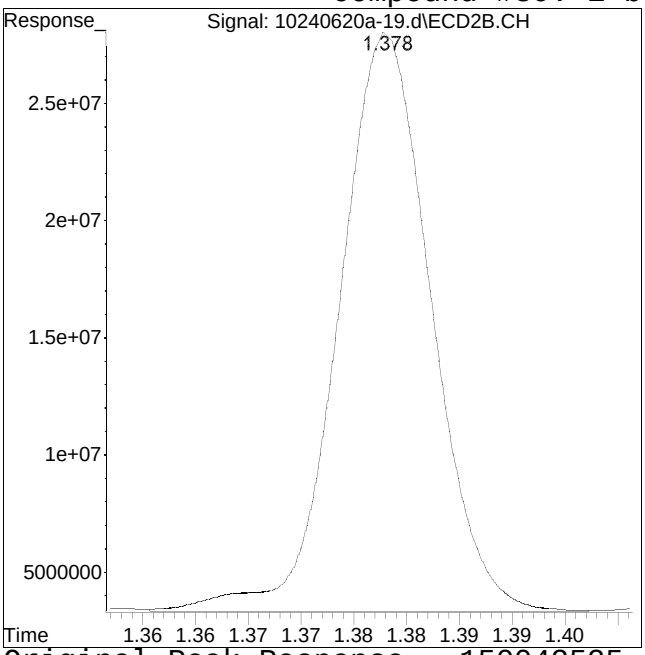
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

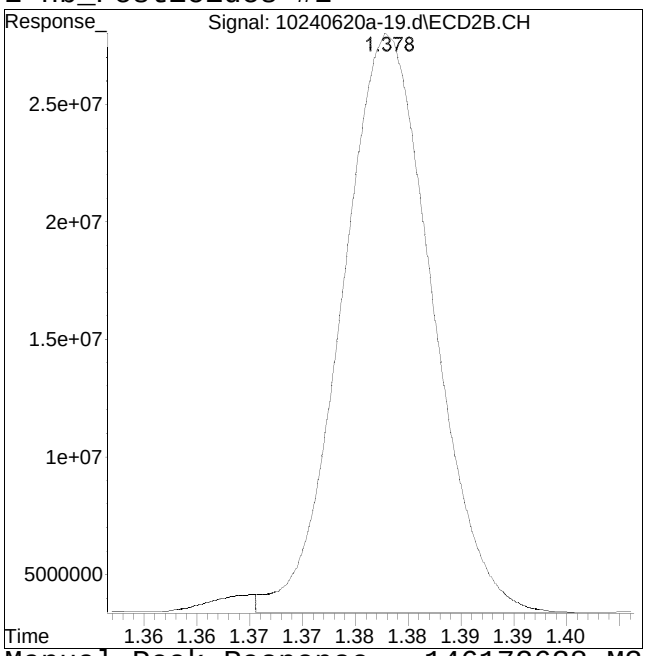


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-19.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 10:09 Instrument : Pest 10
Sample : L2433375-08,42,, Quant Date : 6/20/2024 10:36 am

Compound #39: 1-br-2-nb_Pesticides #2





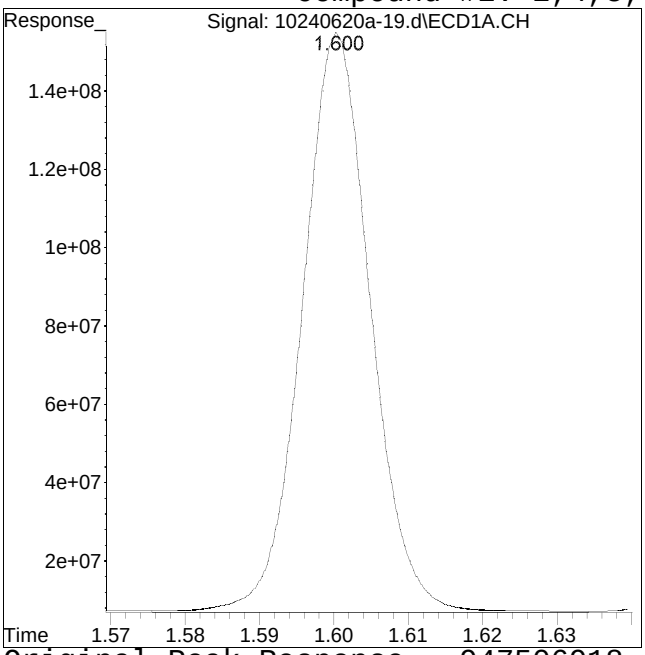
Original Peak Response = 150042525 Manual Peak Response = 146172638 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

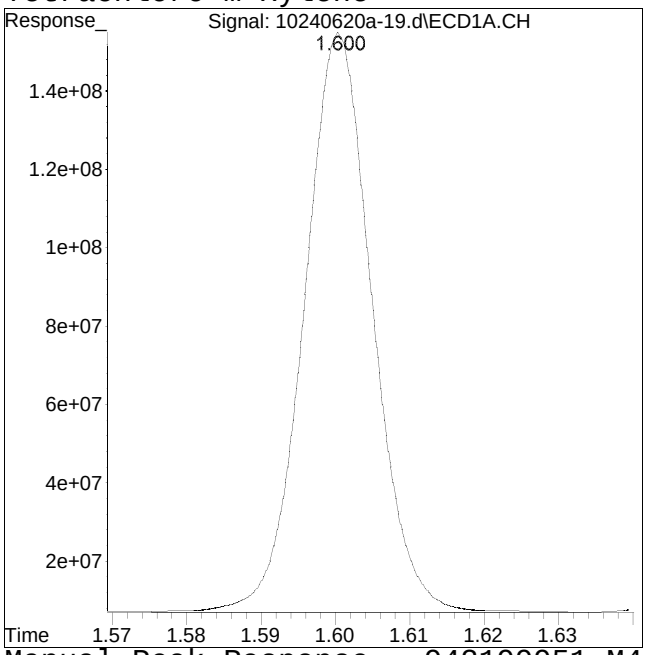
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-19.d
Date Inj'd : 6/20/2024 10:09
Sample : L2433375-08,42,,

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 10:36 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 947506918



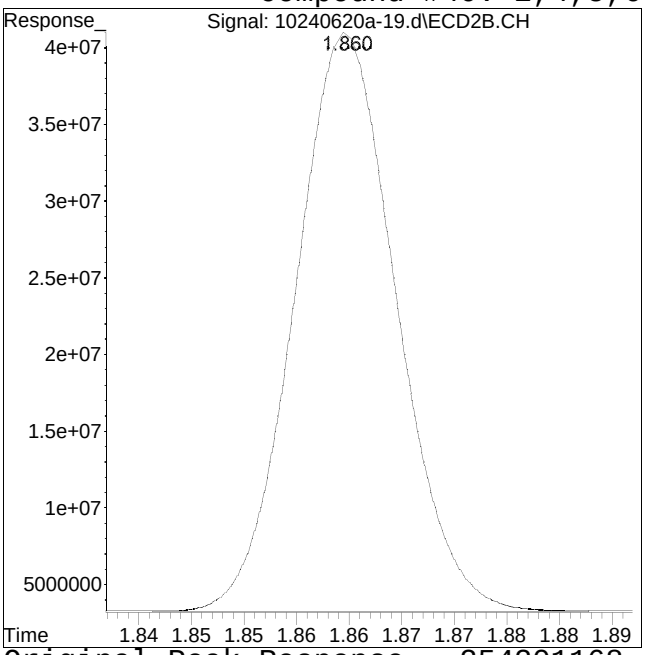
Manual Peak Response = 942199951 M4

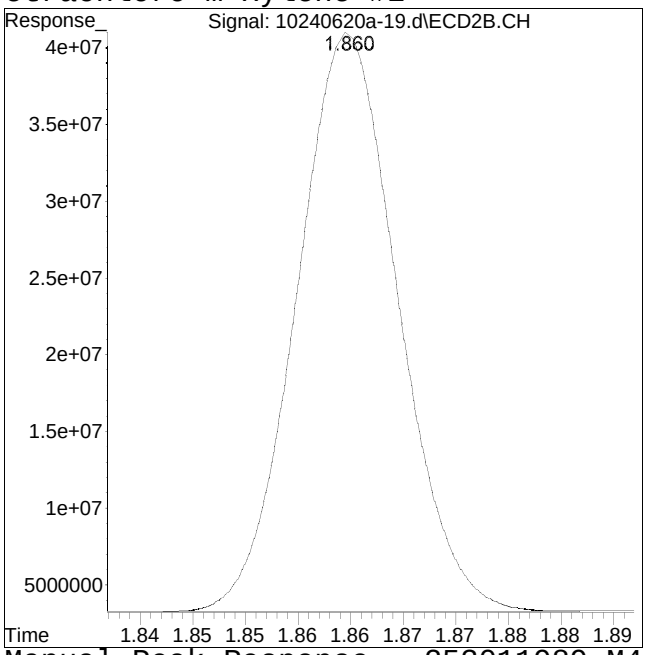
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-19.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 10:09 Instrument : Pest 10
Sample : L2433375-08,42,, Quant Date : 6/20/2024 10:36 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



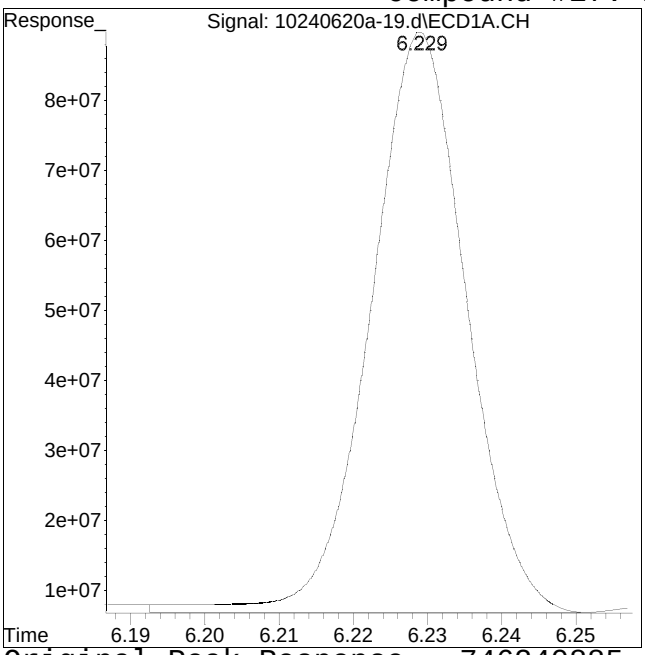


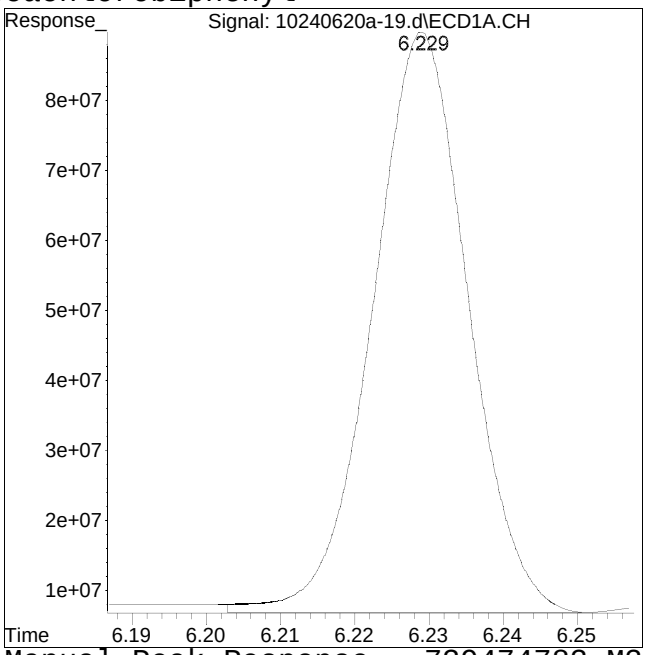
Original Peak Response = 254201168 Manual Peak Response = 253011989 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-19.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 10:09 Instrument : Pest 10
Sample : L2433375-08,42,, Quant Date : 6/20/2024 10:36 am

Compound #27: Decachlorobiphenyl



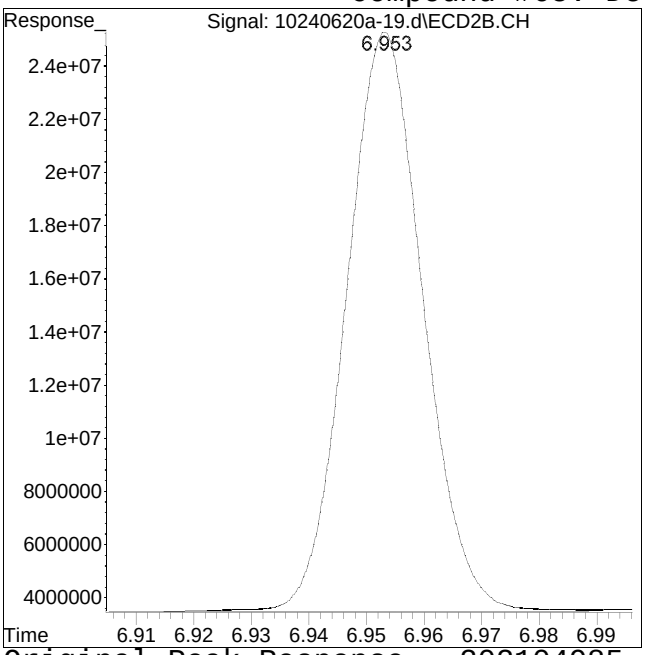


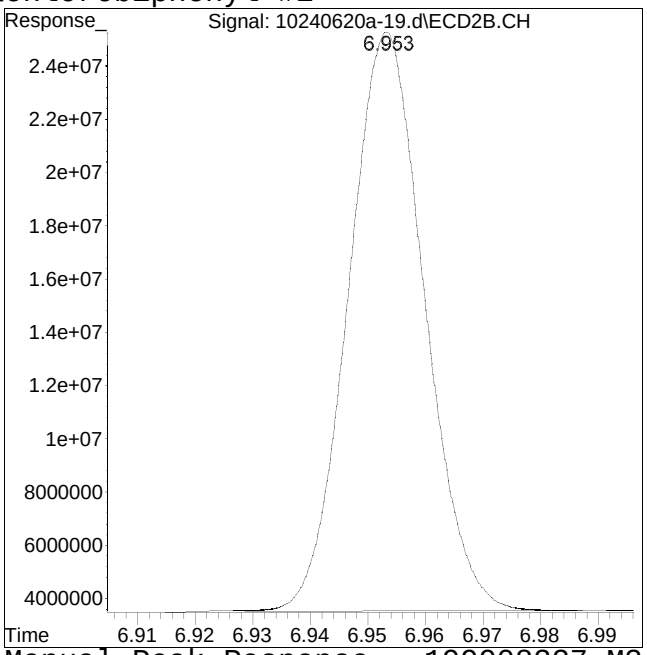
Original Peak Response = 746240885 Manual Peak Response = 739474783 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-19.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 10:09 Instrument : Pest 10
Sample : L2433375-08,42,, Quant Date : 6/20/2024 10:36 am

Compound #65: Decachlorobiphenyl #2



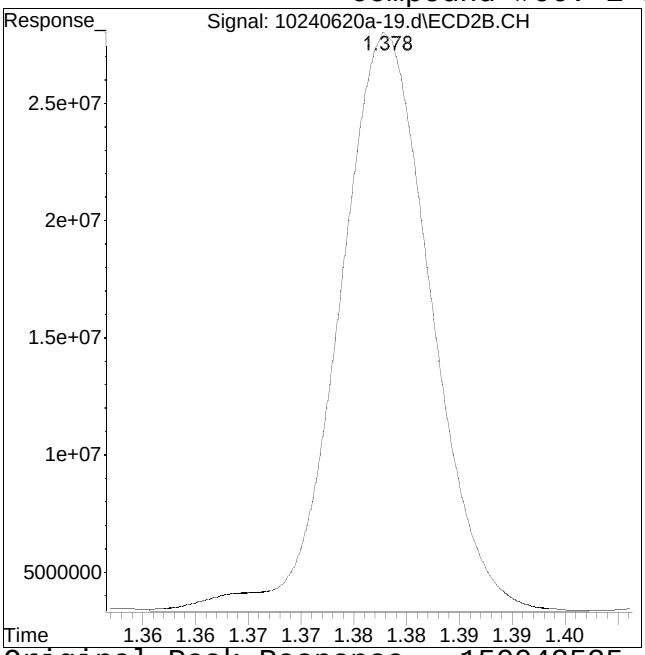


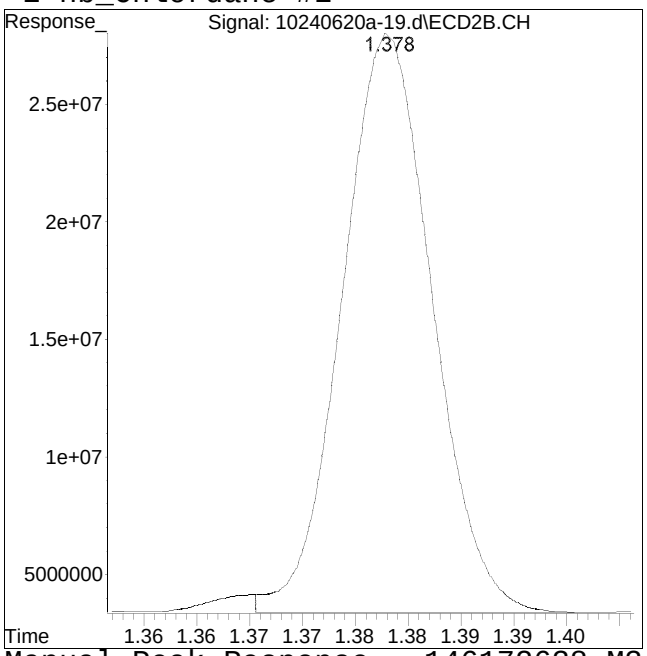
Original Peak Response = 202104985 Manual Peak Response = 199908327 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-19.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 10:09 Instrument : Pest 10
Sample : L2433375-08,42,, Quant Date : 6/20/2024 10:36 am

Compound #66: 1-br-2-nb_Chlordane #2



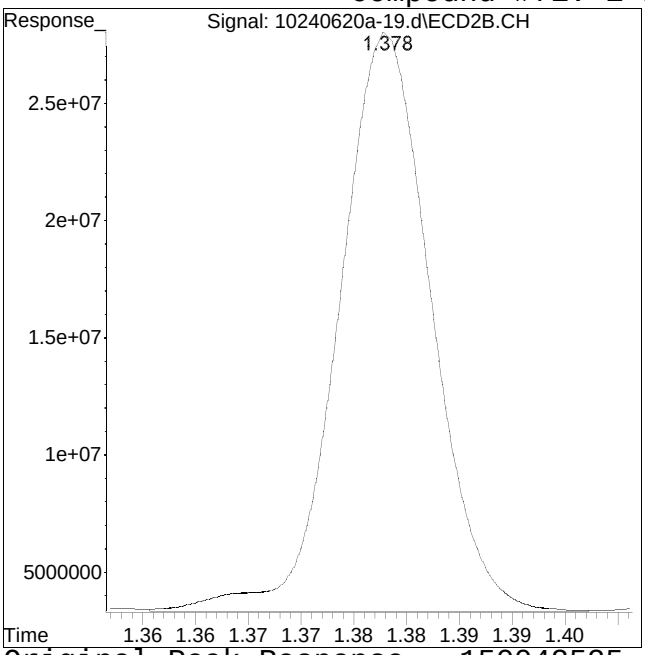


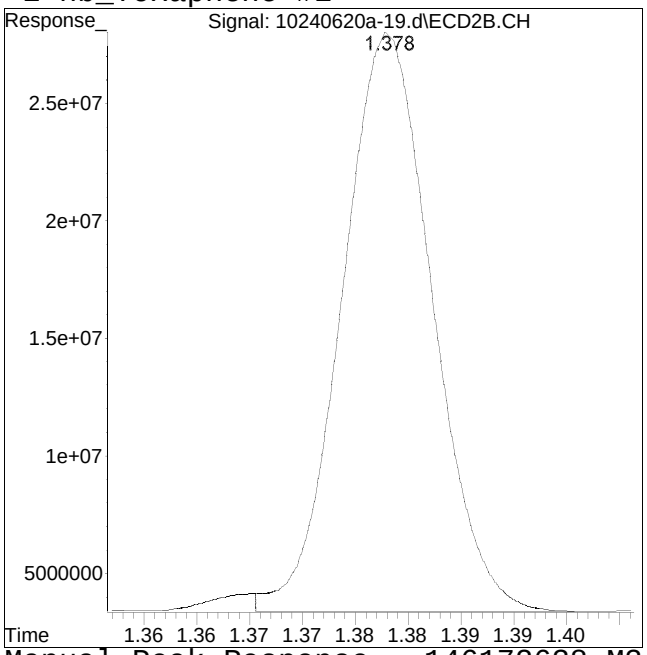
Original Peak Response = 150042525 Manual Peak Response = 146172638 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-19.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 10:09 Instrument : Pest 10
Sample : L2433375-08,42,, Quant Date : 6/20/2024 10:36 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 150042525 Manual Peak Response = 146172638 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------												
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.285	1.171	1.153	1.169	1.034	0.989	0.993	0.987	0.986	1.085		10.25
3)	t	Hexachlorobenzene		1.342	1.269	1.245	1.250	1.124	1.052	1.049	1.044	1.063	1.160		10.04
4)	t	alpha-BHC		1.510	1.477	1.473	1.497	1.432	1.492	1.532	1.562	1.618	1.510		3.62
5)	t	gamma-BHC (li	1.656	1.446	1.412	1.414	1.426	1.341	1.362	1.389	1.409	1.460	1.431		6.06
6)	t	beta-BHC		0.747	0.702	0.697	0.695	0.622	0.569	0.557	0.556	0.574	*L		0.999
6)															
7)	t	delta-BHC		1.449	1.398	1.389	1.402	1.334	1.378	1.414	1.448	1.501	1.412		3.42
8)	t	Heptachlor		1.514	1.435	1.443	1.427	1.329	1.293	1.289	1.263	1.242	1.359		7.10
9)	t	Aldrin		1.391	1.335	1.313	1.331	1.240	1.231	1.237	1.232	1.229	1.282		4.76
10)	t	Alachlor				0.228	0.224	0.207	0.180	0.164	0.147		*L		0.994
0)															
11)	t	Chlorpyrifos				0.747	0.732	0.655	0.556	0.514	0.474	0.449	*L		0.996
1)															
12)	t	Heptachlor Ep		1.384	1.326	1.313	1.313	1.198	1.141	1.127	1.101	1.090	1.221		9.25
13)	t	gamma-Chlorda		1.297	1.184	1.169	1.173	1.070	1.027	1.028	1.038	1.070	1.117		8.33
14)	t	alpha-Chlorda		1.526	1.359	1.332	1.335	1.219	1.158	1.156	1.158	1.180	1.269		10.06
15)	t	4,4'-DDE		1.265	1.241	1.233	1.231	1.162	1.160	1.168	1.174	1.184	1.202		3.36
16)	t	Endosulfan I		1.328	1.268	1.256	1.258	1.138	1.088	1.071	1.046	1.014	1.163		9.92
17)	t	Dieldrin	1.310	1.258	1.250	1.266	1.170	1.141	1.139	1.132	1.136	1.200		5.81	
18)	t	Endrin	1.333	1.303	1.299	1.302	1.210	1.174	1.168	1.149	1.157	1.233		6.11	
19)	t	4,4'-DDD	1.034	1.017	1.012	1.017	0.952	0.930	0.932	0.937	0.963	0.977		4.33	
20)	t	Endosulfan II	1.237	1.186	1.182	1.178	1.080	1.020	0.998	0.963	0.733	1.064		14.78	
21)	t	4,4'-DDT	1.153	1.123	1.123	1.143	1.047	1.016	1.035	1.032	1.061	1.081		4.93	
22)	t	Endrin Aldehyde	1.110	0.904	0.790	0.839	0.792	0.797	0.821	0.809	0.807	*L		0.999	
9)															
23)	t	Methoxychlor		0.686	0.695	0.691	0.621	0.548	0.520	0.489	0.476	*L		0.998	
0)															
24)	t	Mirex		1.091	1.094	1.097	0.949	0.832	0.801	0.787	0.808	*L		0.999	
6)															
25)	t	Endosulfan Su	1.217	1.154	1.150	1.161	1.043	0.969	0.948	0.927	0.927	1.055		11.00	
26)	t	Endrin Ketone	1.307	1.255	1.253	1.255	1.149	1.087	1.066	1.032	1.012	1.157		9.71	
27)	s	Decachlorobip		1.062	1.039	1.040	0.922	0.829	0.804	0.787		*L		0.999	
5)															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1		0.048	0.046	0.039	0.037	0.037	0.035				*L		0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
5)														
30)	l1	chlordane-3			0.093	0.090	0.076	0.074	0.074	0.071			*L	0.999
6)														
31)	l1	chlordane-4			0.063	0.058	0.050	0.045	0.044	0.039			*L	0.995
0)														
32)	l1	chlordane-5			0.206	0.193	0.157	0.158	0.160	0.155			*L	0.999
8)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.076	0.043		0.040	0.039	0.039			*L	0.999
9)														
35)	l2	toxaphene-2			0.042	0.038		0.038	0.037	0.037			*L	0.999
9)														
36)	l2	toxaphene-4			0.059	0.033		0.032	0.032	0.032			*L	0.999
8)														
37)	l2	toxaphene-5			0.065	0.039		0.038	0.037	0.038			*L	0.999
8)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Signal #2 Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.022	0.975	0.955	0.926	0.915	0.923	0.946	0.908	0.892	0.940	4.22
3)	t	Hexachloroben		1.239	1.165	1.136	1.103	1.052	1.012	1.033	0.995	0.987	1.080	8.00
4)	t	alpha-BHC		1.293	1.250	1.232	1.223	1.250	1.386	1.461	1.469	1.484	1.339	8.26
5)	t	gamma-BHC (li	.301	1.250	1.207	1.200	1.176	1.181	1.270	1.322	1.329	1.338	1.257	5.05
6)	t	beta-BHC		0.684	0.655	0.637	0.607	0.577	0.549	0.552	0.543	0.549	*L	0.999
9)														
7)	t	delta-BHC		1.250	1.199	1.181	1.159	1.165	1.288	1.348	1.376	1.395	1.262	7.39
8)	t	Heptachlor		1.358	1.285	1.251	1.224	1.199	1.228	1.256	1.234	1.201	1.248	3.94
9)	t	Aldrin		1.165	1.132	1.117	1.080	1.076	1.135	1.179	1.179	1.172	1.137	3.55
10)	t	Alachlor			0.255	0.231	0.206	0.177	0.168	0.154			*L	0.997
3)														
11)	t	Chlorpyrifos			0.730	0.695	0.646	0.569	0.549	0.515	0.489		*L	0.997
7)														
12)	t	Heptachlor Ep	1.295	1.198	1.161	1.145	1.096	1.091	1.104	1.080	1.062	1.137		6.46
13)	t	gamma-Chlorda	1.110	1.054	1.027	0.997	0.961	0.965	0.992	0.993	1.004	1.011		4.61
14)	t	alpha-Chlorda	1.265	1.184	1.162	1.129	1.092	1.088	1.110	1.101	1.105	1.137		5.07
15)	t	4,4'-DDE	1.048	1.030	1.022	0.989	0.987	1.061	1.105	1.110	1.112	1.052		4.67
16)	t	Endosulfan I	1.175	1.115	1.096	1.059	1.024	1.024	1.038	1.014	0.975	1.058		5.77
17)	t	Dieldrin	1.125	1.065	1.043	1.023	1.006	1.047	1.081	1.075	1.063	1.059		3.28
18)	t	Endrin	1.137	1.105	1.078	1.058	1.043	1.084	1.111	1.093	1.067	1.086		2.68
19)	t	4,4'-DDD	0.864	0.827	0.815	0.801	0.796	0.839	0.877	0.881	0.912	0.846		4.72
20)	t	Endosulfan II	1.080	1.034	1.005	0.981	0.950	0.950	0.957	0.915	0.689	0.951		11.61
21)	t	4,4'-DDT	0.998	0.960	0.950	0.929	0.917	0.949	0.978	0.974	0.982	0.960		2.73
22)	t	Endrin Aldehyde	0.748	0.785	0.685	0.705	0.704	0.749	0.792	0.780	0.769		*L	0.999
7)														
23)	t	Methoxychlor			0.595	0.583	0.564	0.539	0.502	0.495	0.473	0.470	*L	0.999
5)														
24)	t	Mirex			1.010	0.969	0.929	0.859	0.764	0.745	0.711	0.709	*L	0.999
5)														
25)	t	Endosulfan Su	1.067	1.020	0.987	0.966	0.921	0.900	0.906	0.890	0.876	0.948		6.92
26)	t	Endrin Ketone	1.136	1.091	1.073	1.043	1.014	1.006	1.012	0.973	0.949	1.033		5.71
27)	s	Decachlorobip			0.957	0.929	0.896	0.832	0.751	0.734	0.694		*L	0.998
9)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.044	0.042	0.035	0.033	0.033	0.031			*L	0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Signal #2 Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
2)														
30)	l1	chlordane-3			0.056	0.055	0.046	0.041	0.039	0.036			*L	0.996
6)														
31)	l1	chlordane-4			0.161	0.152	0.132	0.136	0.135	0.129			*L	0.999
5)														
32)	l1	chlordane-5			0.133	0.125	0.107	0.107	0.105	0.101			*L	0.999
4)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.027	0.023		0.020	0.020	0.020			*L	0.999
8)														
35)	l2	toxaphene-2			0.043	0.032		0.030	0.030	0.030			*L	0.999
8)														
36)	l2	toxaphene-4			0.046	0.039		0.035	0.036	0.037			*L	0.999
6)														
37)	l2	toxaphene-5			0.046	0.035		0.032	0.033	0.033			*L	0.999
8)														

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.285	1.171	1.153	1.169	1.034	0.989	0.993	0.987	0.986	1.085	10.25
3)	t	Hexachloroben...		1.342	1.269	1.245	1.250	1.124	1.052	1.049	1.044	1.063	1.160	10.04
4)	t	alpha-BHC		1.510	1.477	1.473	1.497	1.432	1.492	1.532	1.562	1.618	1.510	3.62
5)	t	gamma-BHC (li...	1.656	1.446	1.412	1.414	1.426	1.341	1.362	1.389	1.409	1.460	1.431	6.06
6)	t	beta-BHC		0.747	0.702	0.697	0.695	0.622	0.569	0.557	0.556	0.574	*L	0.999
7)	t	delta-BHC		1.449	1.398	1.389	1.402	1.334	1.378	1.414	1.448	1.501	1.412	3.42
8)	t	Heptachlor		1.514	1.435	1.443	1.427	1.329	1.293	1.289	1.263	1.242	1.359	7.10
9)	t	Aldrin		1.391	1.335	1.313	1.331	1.240	1.231	1.237	1.232	1.229	1.282	4.76
10)	t	Alachlor				0.228	0.224	0.207	0.180	0.164	0.147		*L	0.994
11)	t	Chlorpyrifos				0.747	0.732	0.655	0.556	0.514	0.474	0.449	*L	0.996
12)	t	Heptachlor Ep...		1.384	1.326	1.313	1.313	1.198	1.141	1.127	1.101	1.090	1.221	9.25
13)	t	gamma-Chlorda...		1.297	1.184	1.169	1.173	1.070	1.027	1.028	1.038	1.070	1.117	8.33
14)	t	alpha-Chlorda...		1.526	1.359	1.332	1.335	1.219	1.158	1.156	1.158	1.180	1.269	10.06
15)	t	4,4'-DDE		1.265	1.241	1.233	1.231	1.162	1.160	1.168	1.174	1.184	1.202	3.36
16)	t	Endosulfan I		1.328	1.268	1.256	1.258	1.138	1.088	1.071	1.046	1.014	1.163	9.92

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.310	1.258	1.250	1.266	1.170	1.141	1.139	1.132	1.136	1.200	5.81
18)	t	Endrin		1.333	1.303	1.299	1.302	1.210	1.174	1.168	1.149	1.157	1.233	6.11
19)	t	4,4'-DDD		1.034	1.017	1.012	1.017	0.952	0.930	0.932	0.937	0.963	0.977	4.33
20)	t	Endosulfan II		1.237	1.186	1.182	1.178	1.080	1.020	0.998	0.963	0.733	1.064	14.78
21)	t	4,4'-DDT		1.153	1.123	1.123	1.143	1.047	1.016	1.035	1.032	1.061	1.081	4.93
22)	t	Endrin Aldehyde		1.110	0.904	0.790	0.839	0.792	0.797	0.821	0.809	0.807	*L	0.9999
23)	t	Methoxychlor			0.686	0.695	0.691	0.621	0.548	0.520	0.489	0.476	*L	0.9980
24)	t	Mirex			1.091	1.094	1.097	0.949	0.832	0.801	0.787	0.808	*L	0.9996
25)	t	Endosulfan Su...		1.217	1.154	1.150	1.161	1.043	0.969	0.948	0.927	0.927	1.055	11.00
26)	t	Endrin Ketone		1.307	1.255	1.253	1.255	1.149	1.087	1.066	1.032	1.012	1.157	9.71
27)	s	Decachlorobip...			1.062	1.039	1.040	0.922	0.829	0.804	0.787		*L	0.9995
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.048	0.046	0.039	0.037	0.037	0.035			*L	0.9995
30)	l1	chlordane-3			0.093	0.090	0.076	0.074	0.074	0.071			*L	0.9996
31)	l1	chlordane-4			0.063	0.058	0.050	0.045	0.044	0.039			*L	0.9950
32)	l1	chlordane-5			0.206	0.193	0.157	0.158	0.160	0.155			*L	0.9998

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.076	0.043		0.040	0.039	0.039			*L	0.9999
35)	l2	toxaphene-2			0.042	0.038		0.038	0.037	0.037			*L	0.9999
36)	l2	toxaphene-4			0.059	0.033		0.032	0.032	0.032			*L	0.9998
37)	l2	toxaphene-5			0.065	0.039		0.038	0.037	0.038			*L	0.9998

Signal #2 Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.022	0.975	0.955	0.926	0.915	0.923	0.946	0.908	0.892	0.940	4.22
3)	t	Hexachloroben...		1.239	1.165	1.136	1.103	1.052	1.012	1.033	0.995	0.987	1.080	8.00
4)	t	alpha-BHC		1.293	1.250	1.232	1.223	1.250	1.386	1.461	1.469	1.484	1.339	8.26
5)	t	gamma-BHC (li...	1.301	1.250	1.207	1.200	1.176	1.181	1.270	1.322	1.329	1.338	1.257	5.05
6)	t	beta-BHC		0.684	0.655	0.637	0.607	0.577	0.549	0.552	0.543	0.549	*L	0.9999
7)	t	delta-BHC		1.250	1.199	1.181	1.159	1.165	1.288	1.348	1.376	1.395	1.262	7.39
8)	t	Heptachlor		1.358	1.285	1.251	1.224	1.199	1.228	1.256	1.234	1.201	1.248	3.94
9)	t	Aldrin		1.165	1.132	1.117	1.080	1.076	1.135	1.179	1.179	1.172	1.137	3.55

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	t	Alachlor				0.255	0.231	0.206	0.177	0.168	0.154		*L	0.997
11)	t	Chlorpyrifos				0.730	0.695	0.646	0.569	0.549	0.515	0.489	*L	0.997
12)	t	Heptachlor Ep...	1.295	1.198	1.161	1.145	1.096	1.091	1.104	1.080	1.062		1.137	6.46
13)	t	gamma-Chlorda...	1.110	1.054	1.027	0.997	0.961	0.965	0.992	0.993	1.004		1.011	4.61
14)	t	alpha-Chlorda...	1.265	1.184	1.162	1.129	1.092	1.088	1.110	1.101	1.105		1.137	5.07
15)	t	4,4'-DDE	1.048	1.030	1.022	0.989	0.987	1.061	1.105	1.110	1.112		1.052	4.67
16)	t	Endosulfan I	1.175	1.115	1.096	1.059	1.024	1.024	1.038	1.014	0.975		1.058	5.77
17)	t	Dieldrin	1.125	1.065	1.043	1.023	1.006	1.047	1.081	1.075	1.063		1.059	3.28
18)	t	Endrin	1.137	1.105	1.078	1.058	1.043	1.084	1.111	1.093	1.067		1.086	2.68
19)	t	4,4'-DDD	0.864	0.827	0.815	0.801	0.796	0.839	0.877	0.881	0.912		0.846	4.72
20)	t	Endosulfan II	1.080	1.034	1.005	0.981	0.950	0.950	0.957	0.915	0.689		0.951	11.61
21)	t	4,4'-DDT	0.998	0.960	0.950	0.929	0.917	0.949	0.978	0.974	0.982		0.960	2.73
22)	t	Endrin Aldehyde	0.748	0.785	0.685	0.705	0.704	0.749	0.792	0.780	0.769		*L	0.999
23)	t	Methoxychlor			0.595	0.583	0.564	0.539	0.502	0.495	0.473	0.470	*L	0.999
24)	t	Mirex			1.010	0.969	0.929	0.859	0.764	0.745	0.711	0.709	*L	0.999
25)	t	Endosulfan Su...	1.067	1.020	0.987	0.966	0.921	0.900	0.906	0.890	0.876		0.948	6.92

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
26)	t	Endrin Ketone	1.136	1.091	1.073	1.043	1.014	1.006	1.012	0.973	0.949		1.033		5.71
27)	s	Decachlorobip...			0.957	0.929	0.896	0.832	0.751	0.734	0.694			*L	0.998
9															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1			0.044	0.042	0.035	0.033	0.033	0.031				*L	0.999
2															
30)	l1	chlordane-3			0.056	0.055	0.046	0.041	0.039	0.036				*L	0.996
6															
31)	l1	chlordane-4			0.161	0.152	0.132	0.136	0.135	0.129				*L	0.999
5															
32)	l1	chlordane-5			0.133	0.125	0.107	0.107	0.105	0.101				*L	0.999
4															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1			0.027	0.023		0.020	0.020	0.020				*L	0.999
8															
35)	l2	toxaphene-2			0.043	0.032		0.030	0.030	0.030				*L	0.999
8															
36)	l2	toxaphene-4			0.046	0.039		0.035	0.036	0.037				*L	0.999
6															
37)	l2	toxaphene-5			0.046	0.035		0.032	0.033	0.033				*L	0.999
8															

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 3:58 pm
Operator : PEST10:jag
Sample : pem10240502i-01,42e,,pp 11529 -- (Sig #1); pem-01,42e,,pp 11529 -- (Sig #2)
Misc : wg1919460,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:34:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:22:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.428	337.8E6	147.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.675	4.588	1687868	317496	0.104M4	0.051M4
18) t	Endrin	4.231	5.035	1377.3E6	456.8E6	82.676M4	71.287M4
19) t	4,4'-DDD	4.341	5.154	2756186	834194	0.209M4	0.167M4
21) t	4,4'-DDT	4.632	5.425	2307.1E6	792.0E6	157.890M4	139.904M4
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	5.510	6.159	2110840	760148	0.135M4	0.125M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 3:58 pm
Operator : PEST10:jag
Sample : pem10240502i-01,42e,,pp 11529 -- (Sig #1); pem-01,42e,,pp 11529 -- (Sig #2)
Misc : wg1919460,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:34:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:22:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

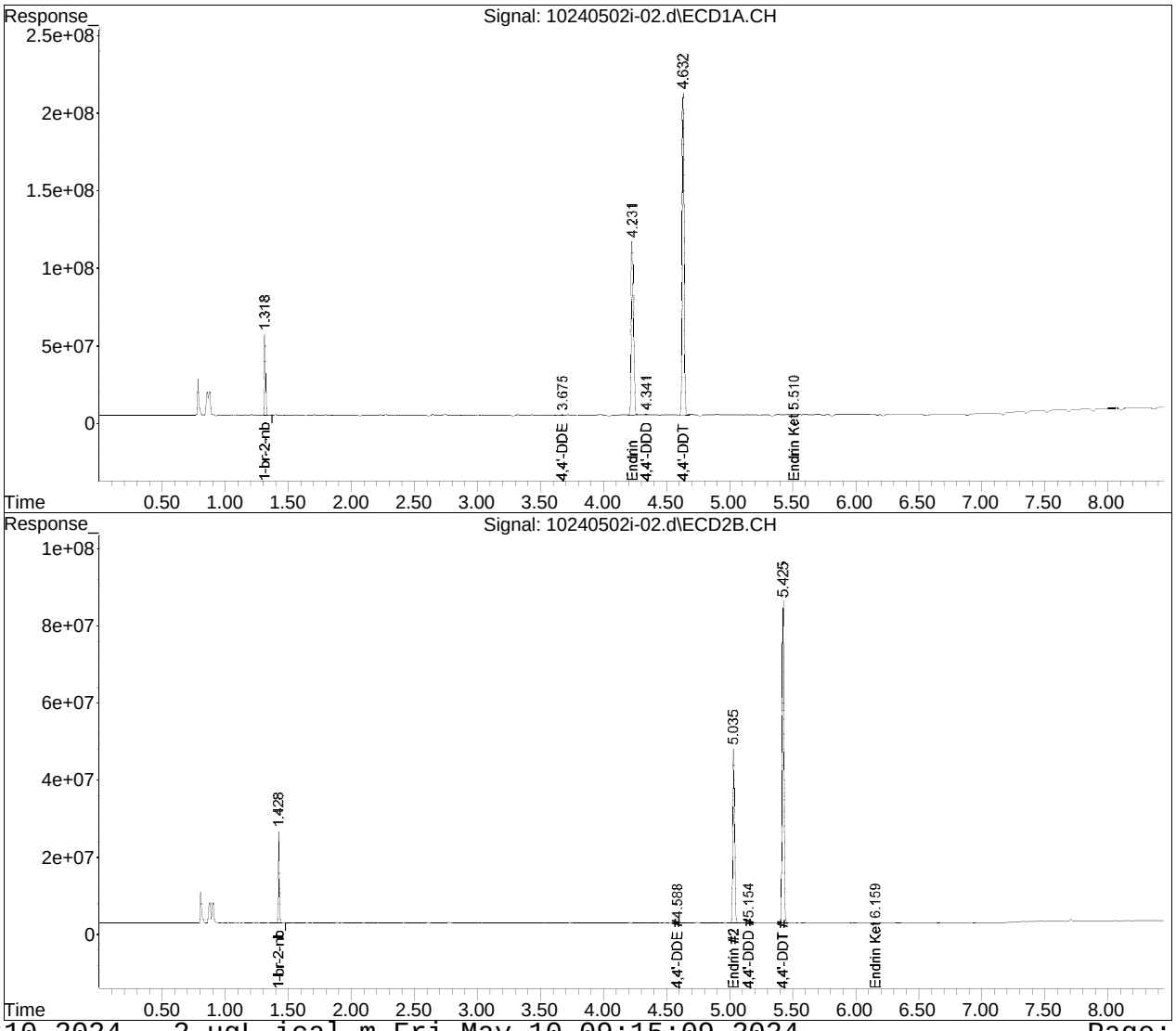
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 3:58 pm
Operator : PEST10:jag
Sample : pem10240502i-01,42e,,pp 11529 -- (Sig #1); pem-01,42e,,pp 11529 --
Misc : wg1919460,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:34:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:22:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

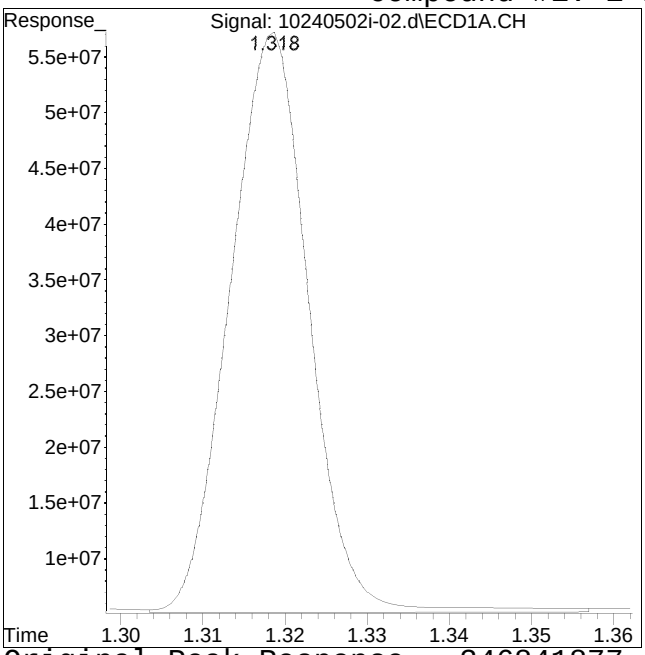
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

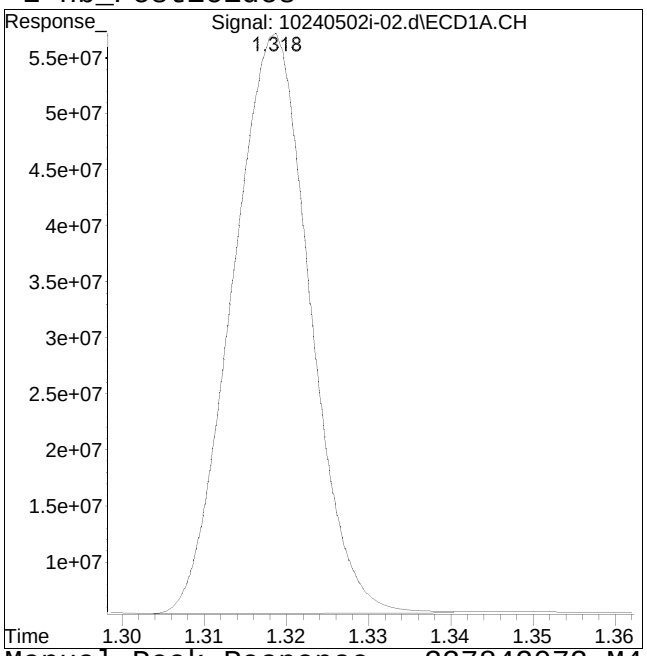


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #1: 1-br-2-nb_Pesticides



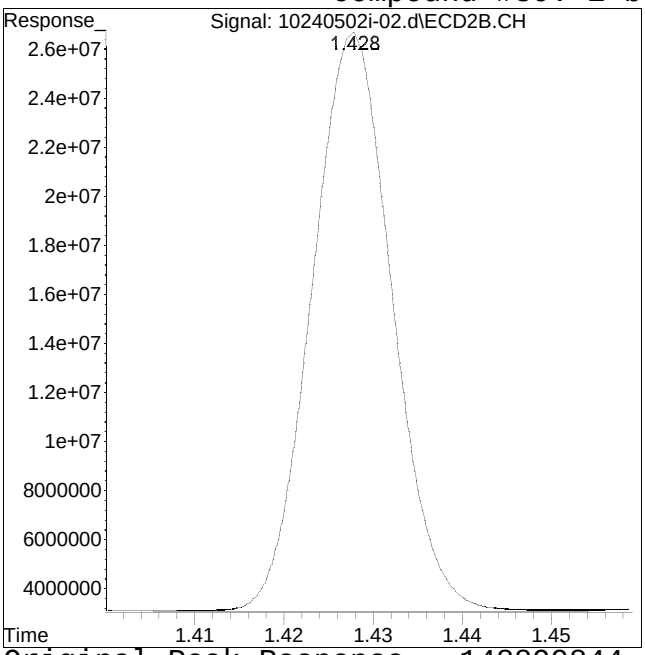


Original Peak Response = 346841877 Manual Peak Response = 337842072 M4
M4 = Poor automated baseline construction.

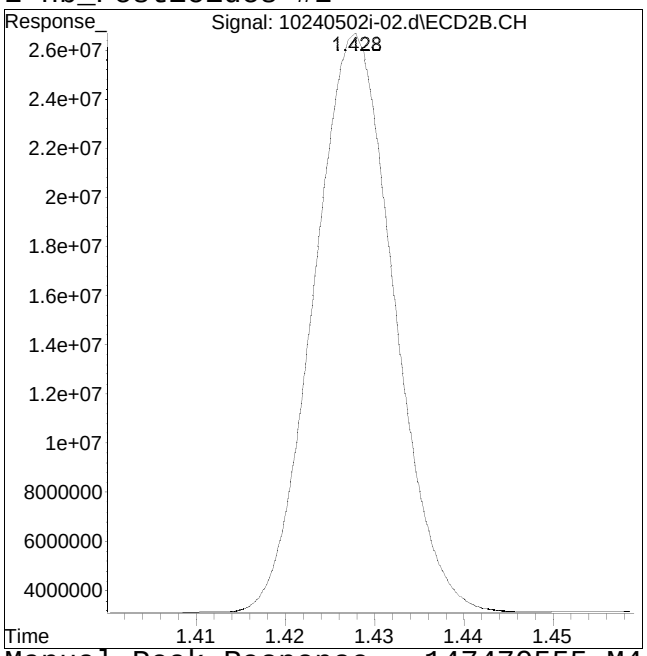
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 148899844



Manual Peak Response = 147470555 M4

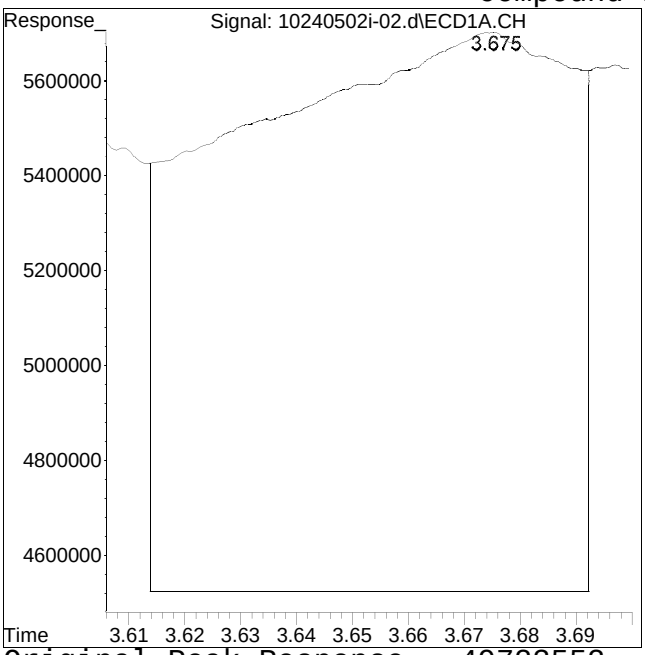
M4 = Poor automated baseline construction.

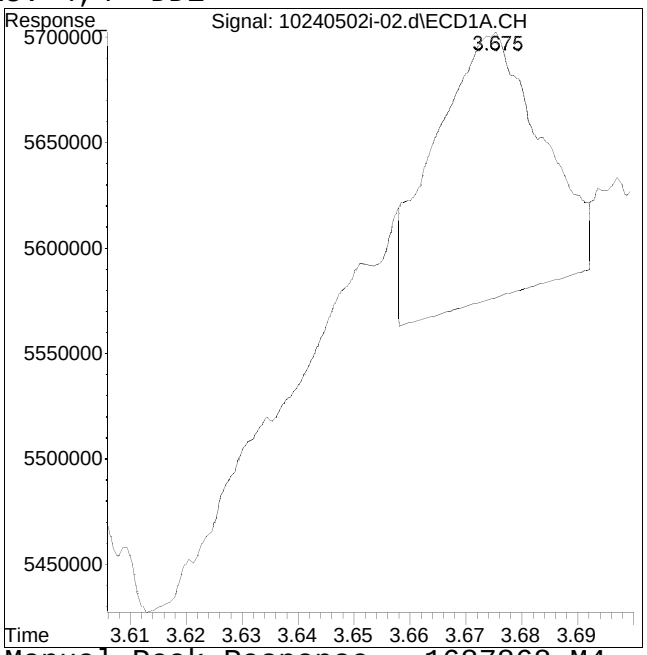
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #15: 4,4'-DDE



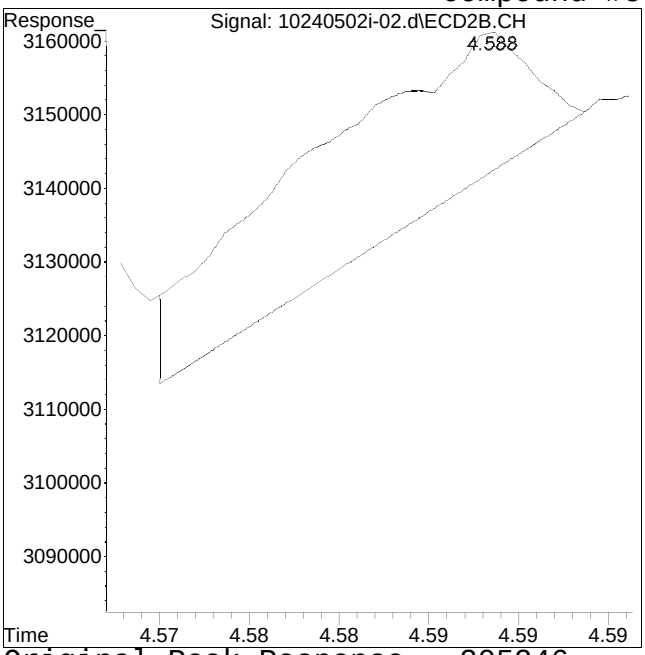


Original Peak Response = 49723552 Manual Peak Response = 1687868 M4
M4 = Poor automated baseline construction.

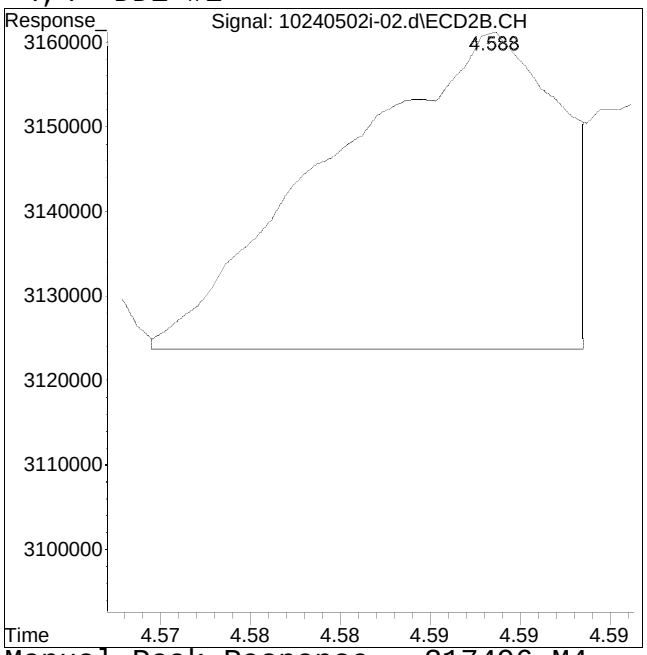
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 205246



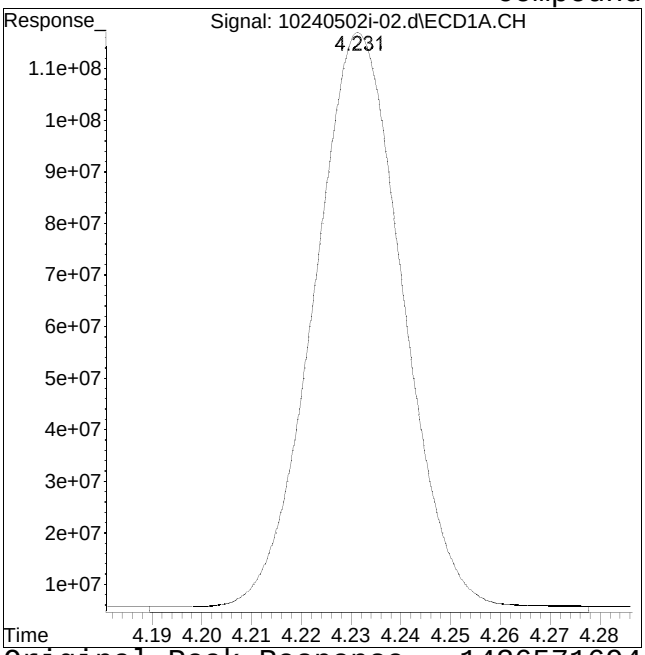
Manual Peak Response = 317496 M4

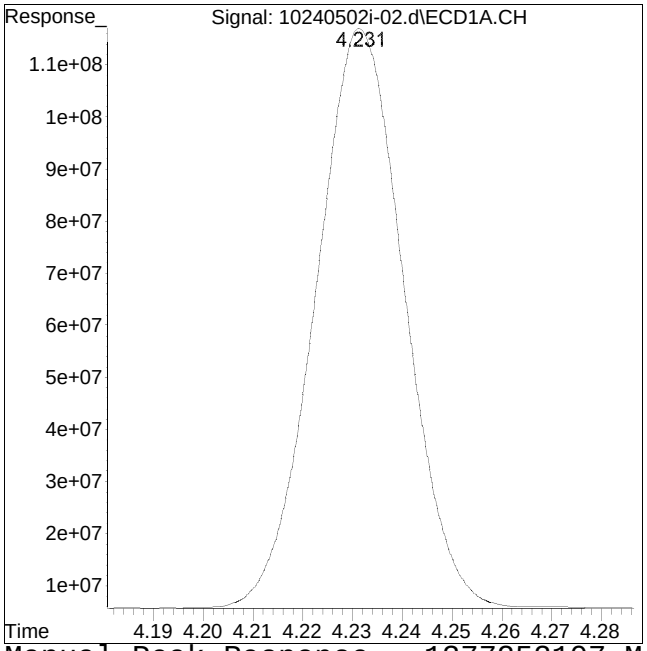
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #18: Endrin



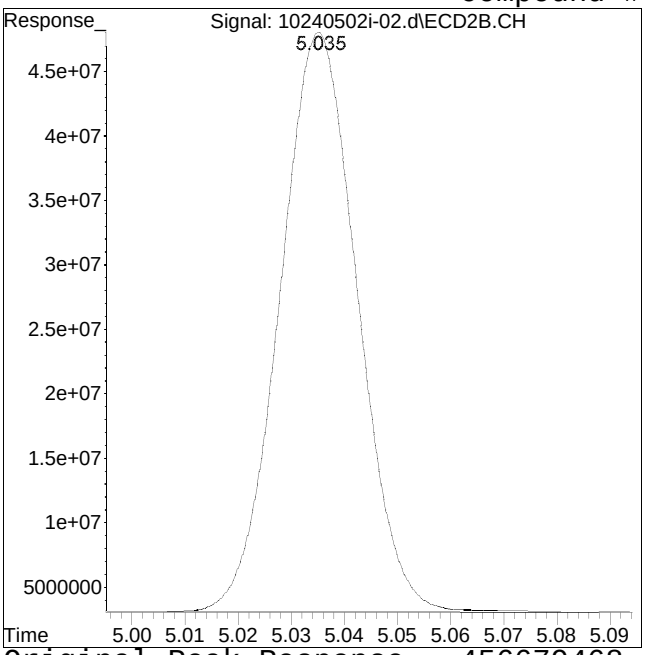


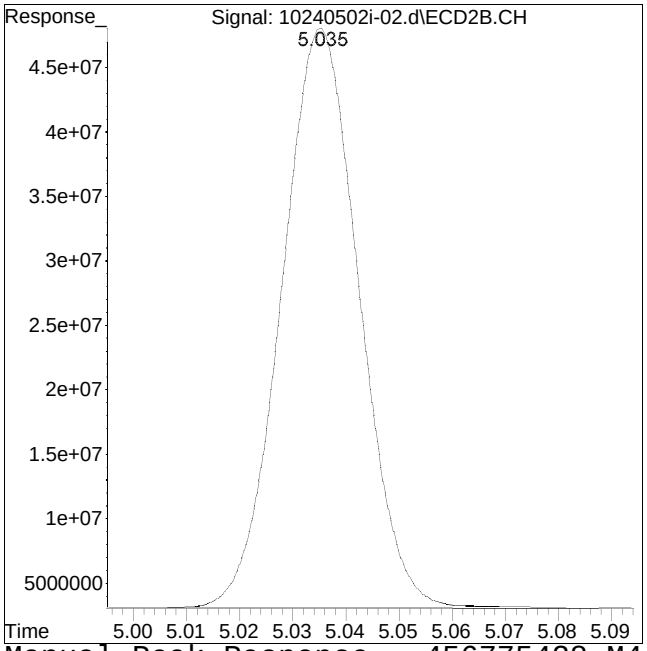
Original Peak Response = 1436571694 Manual Peak Response = 1377252107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #56: Endrin #2



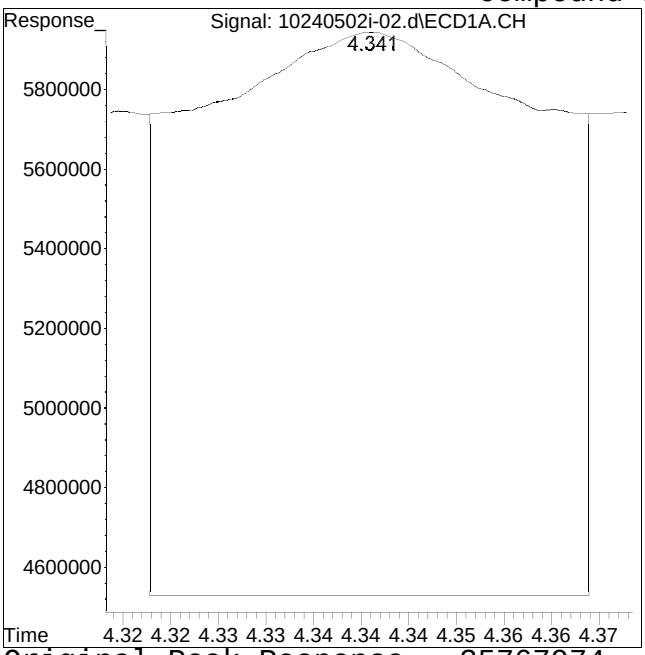


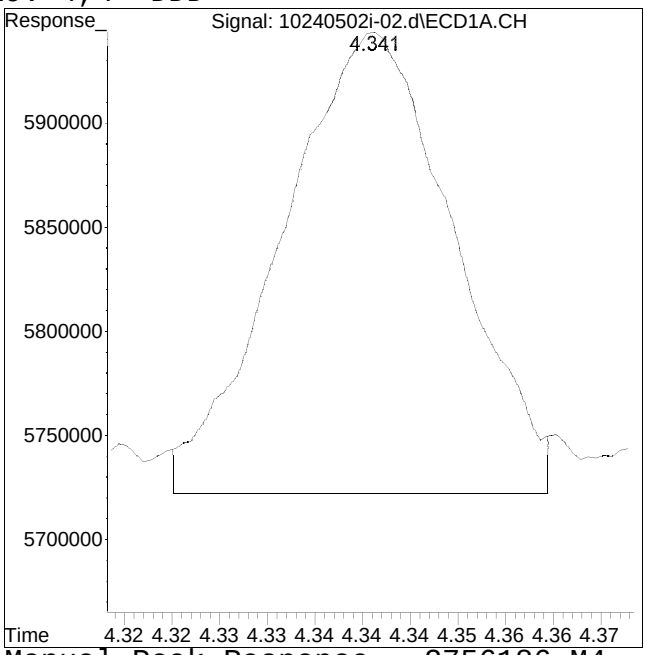
Original Peak Response = 456679468 Manual Peak Response = 456775428 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #19: 4,4'-DDD





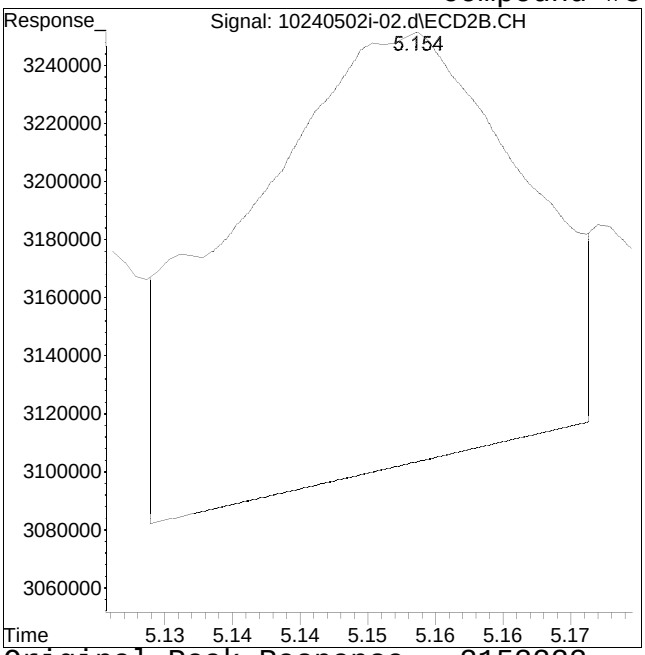
Original Peak Response = 35767974 Manual Peak Response = 2756186 M4
M4 = Poor automated baseline construction.

Manual Integration Report

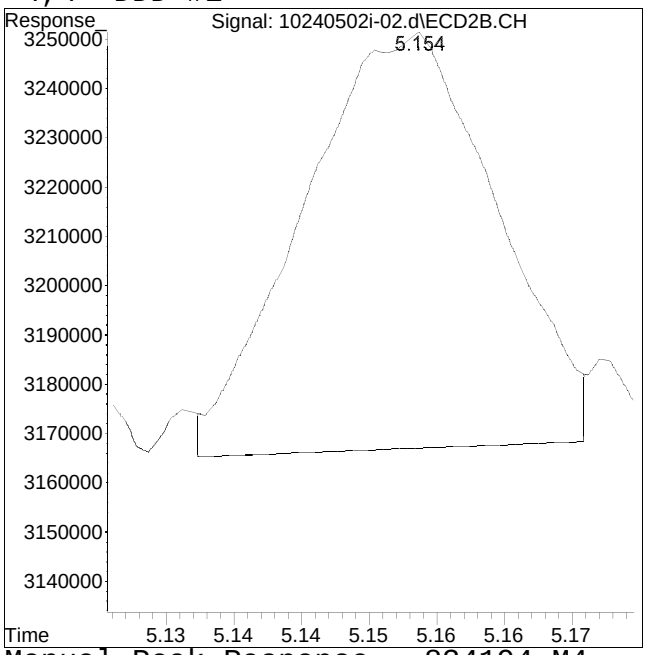
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 2153223



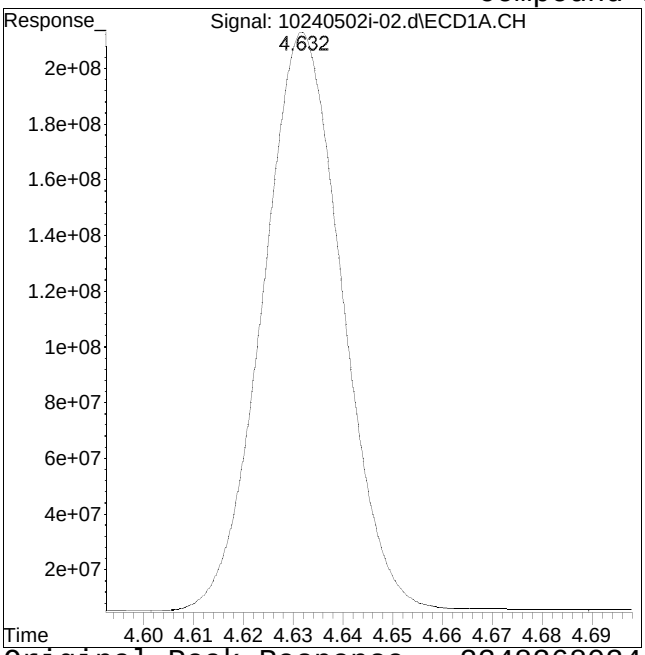
Manual Peak Response = 834194 M4

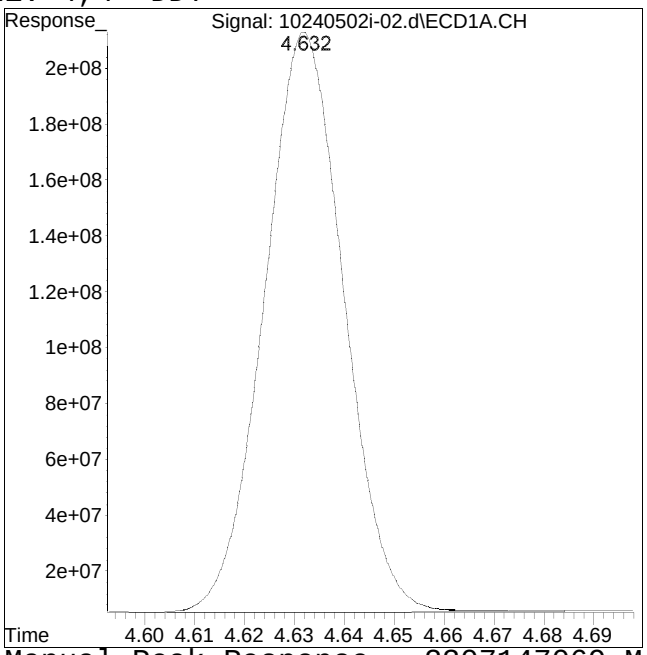
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #21: 4,4'-DDT



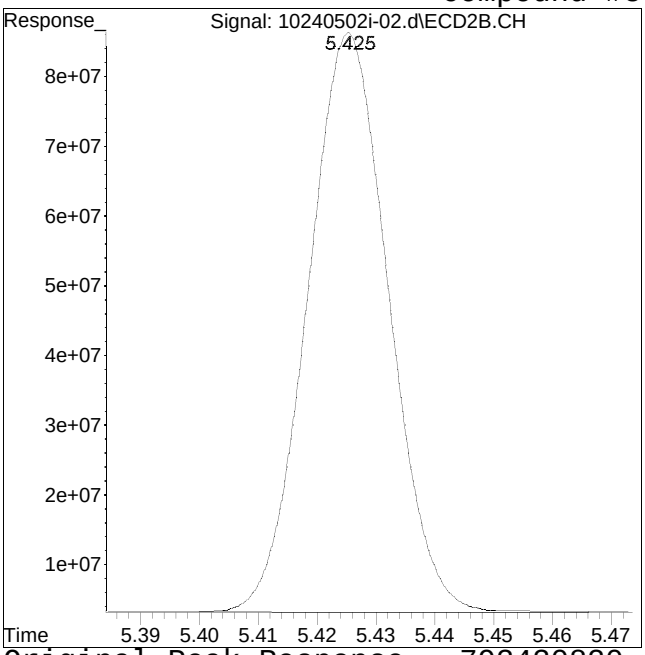


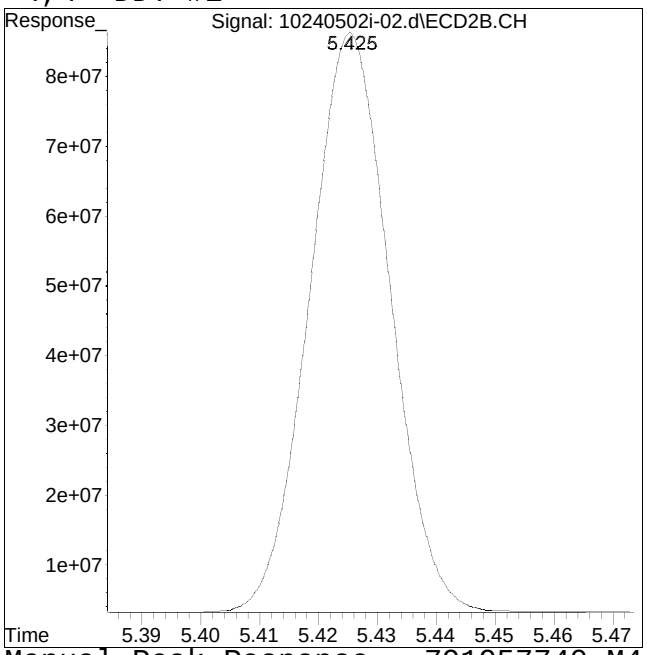
Original Peak Response = 2348368034 Manual Peak Response = 2307147069 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #59: 4,4'-DDT #2





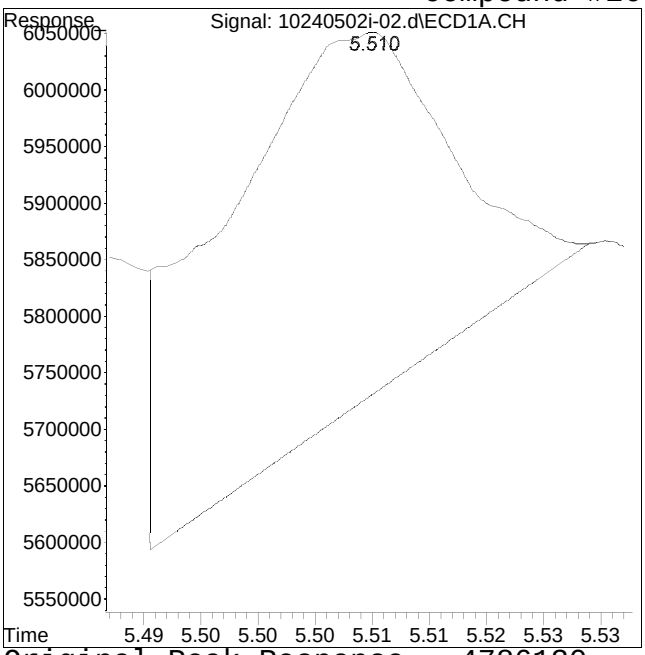
Original Peak Response = 793430820 Manual Peak Response = 791957740 M4
M4 = Poor automated baseline construction.

Manual Integration Report

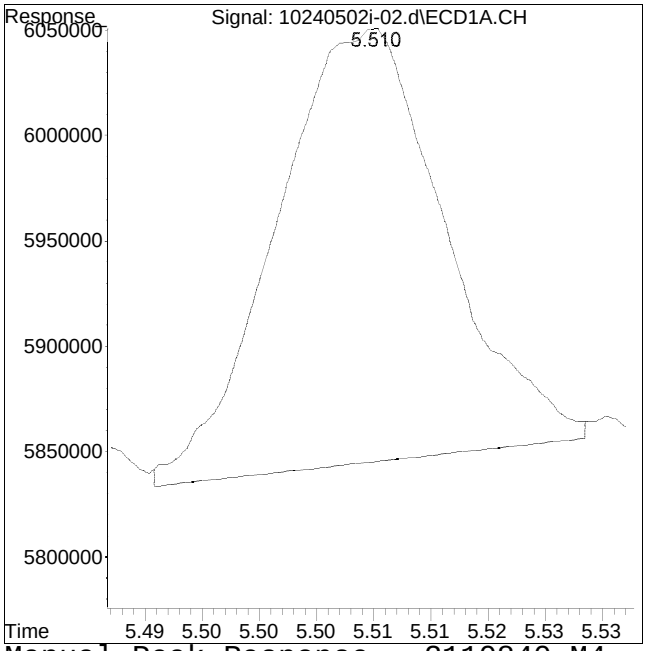
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #26: Endrin Ketone



Original Peak Response = 4786130



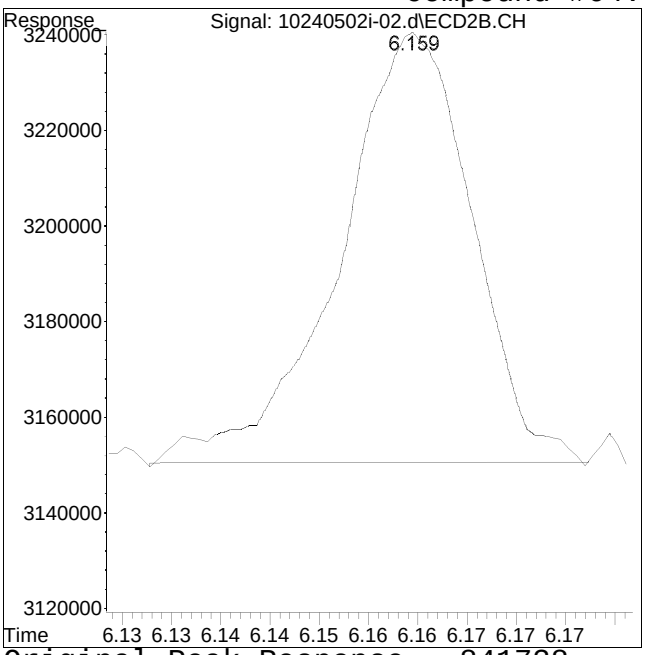
Manual Peak Response = 2110840 M4

M4 = Poor automated baseline construction.

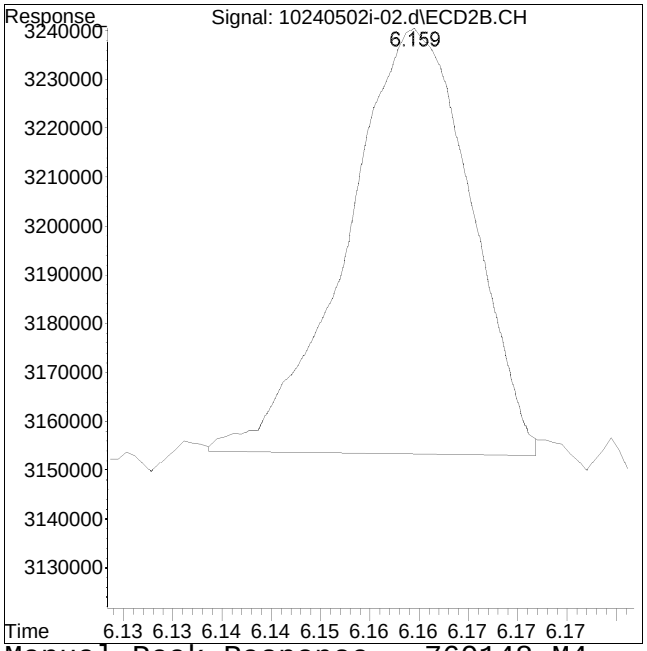
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 841738



Manual Peak Response = 760148 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:08 pm
Operator : PEST10:jag
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:18:16 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:18:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.318	1.428	361.0E6	139.7E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	2.180	2.644	11958198	3632825	0.589M4	0.519M4
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:08 pm
Operator : PEST10:jag
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:18:16 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:18:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

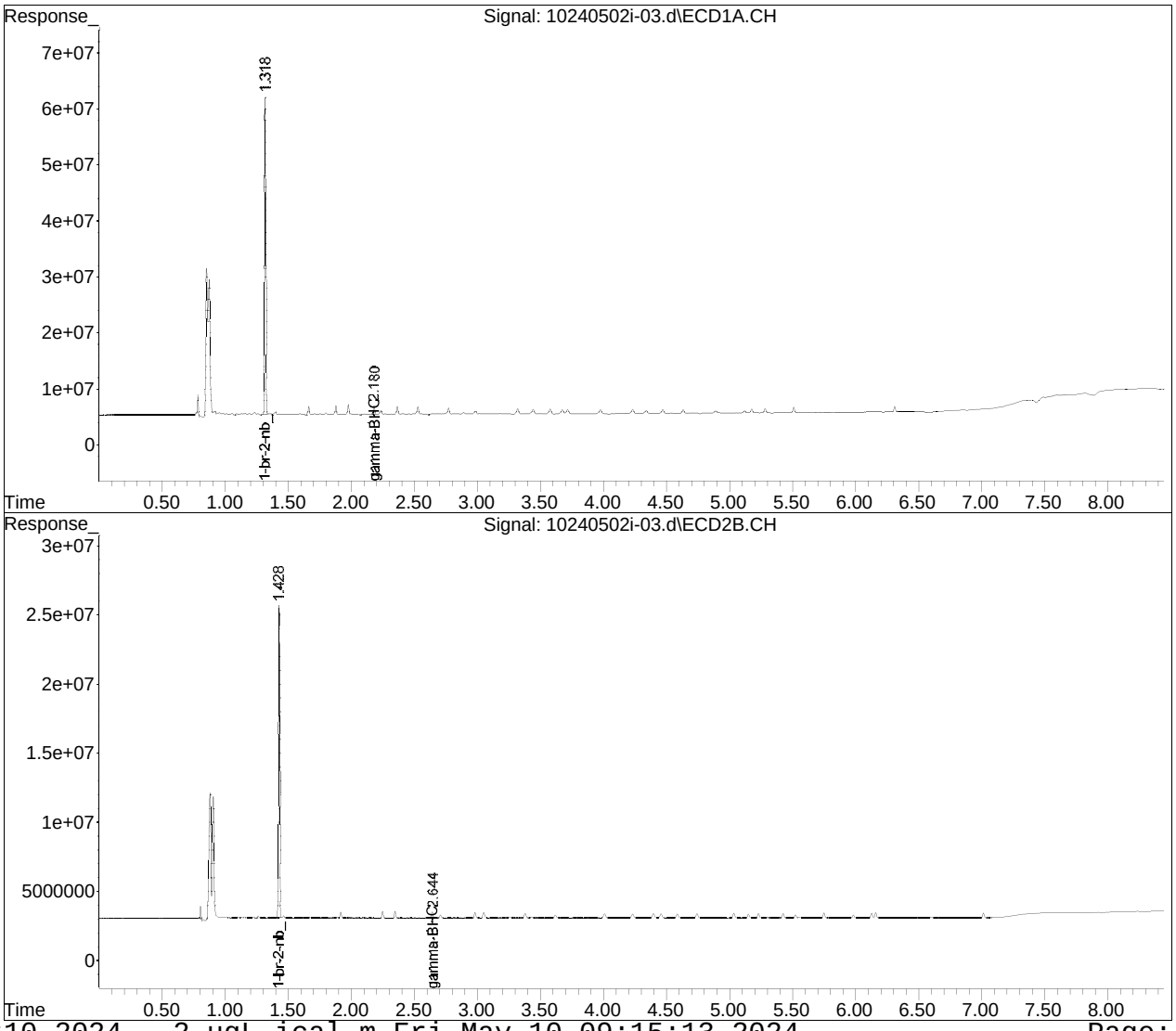
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:08 pm
Operator : PEST10:jag
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:18:16 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:18:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

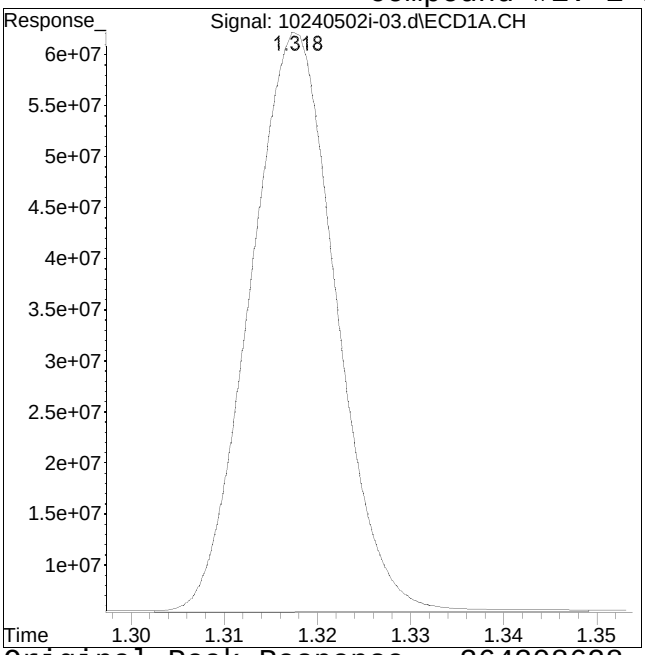
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

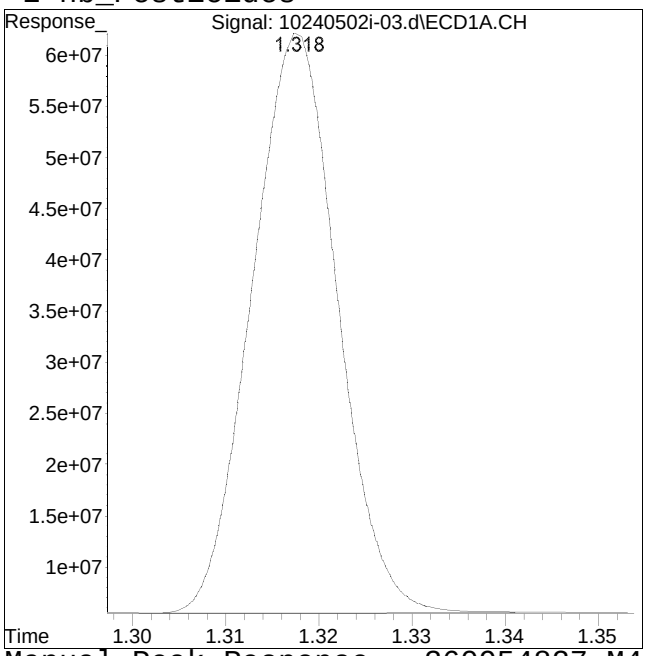


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-03.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:08 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 5/7/2024 5:18 pm

Compound #1: 1-br-2-nb_Pesticides





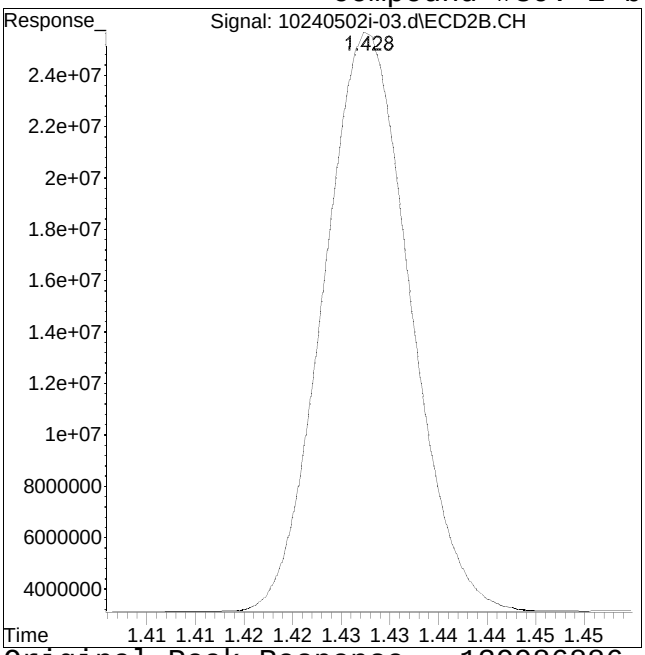
Original Peak Response = 364308628 Manual Peak Response = 360954827 M4
M4 = Poor automated baseline construction.

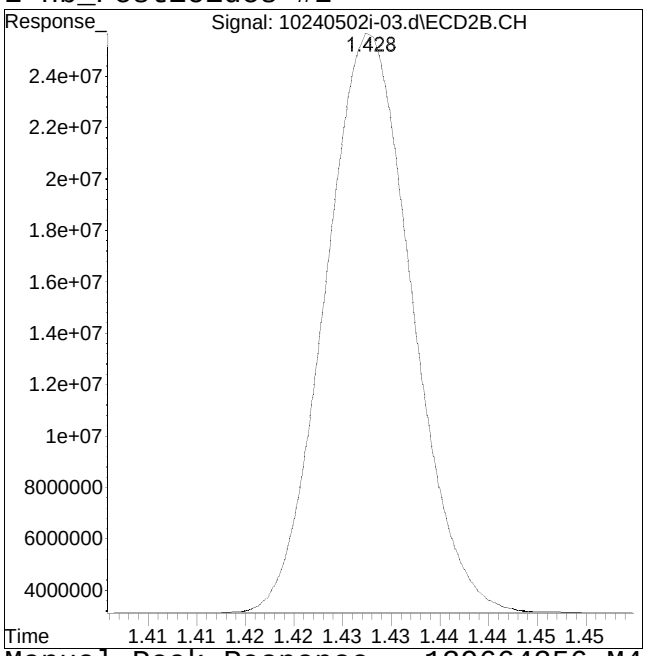
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-03.d
Date Inj'd : 5/2/2024 4:08 pm
Sample : il1pest,42e,,pp 11406 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:18 pm

Compound #39: 1-br-2-nb_Pesticides #2



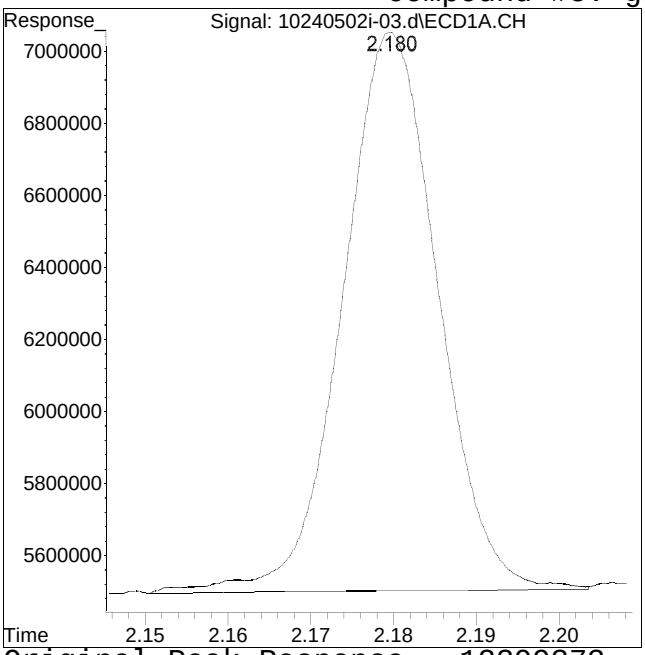


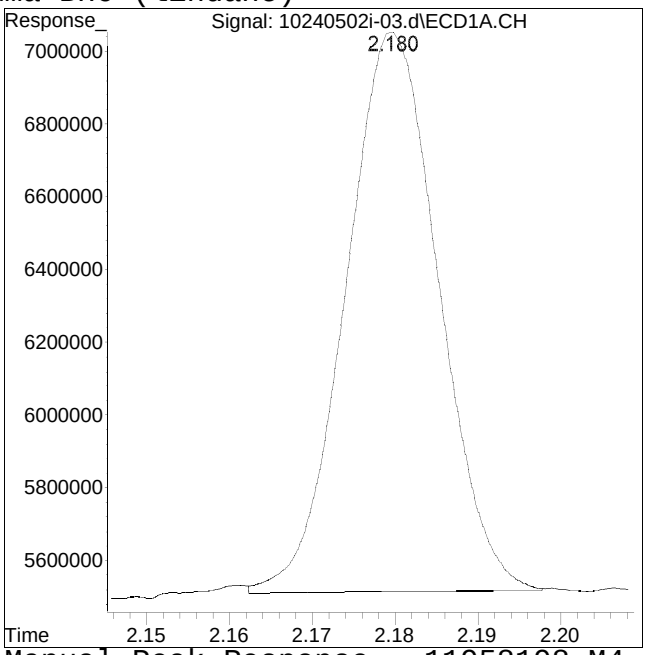
Original Peak Response = 139986886 Manual Peak Response = 139664256 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-03.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:08 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 5/7/2024 5:18 pm

Compound #5: gamma-BHC (lindane)



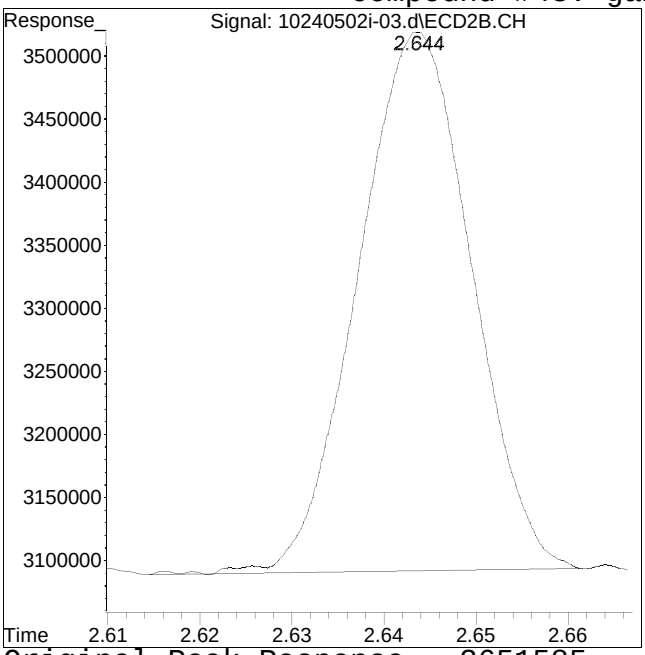


Original Peak Response = 12399373 Manual Peak Response = 11958198 M4
M4 = Poor automated baseline construction.

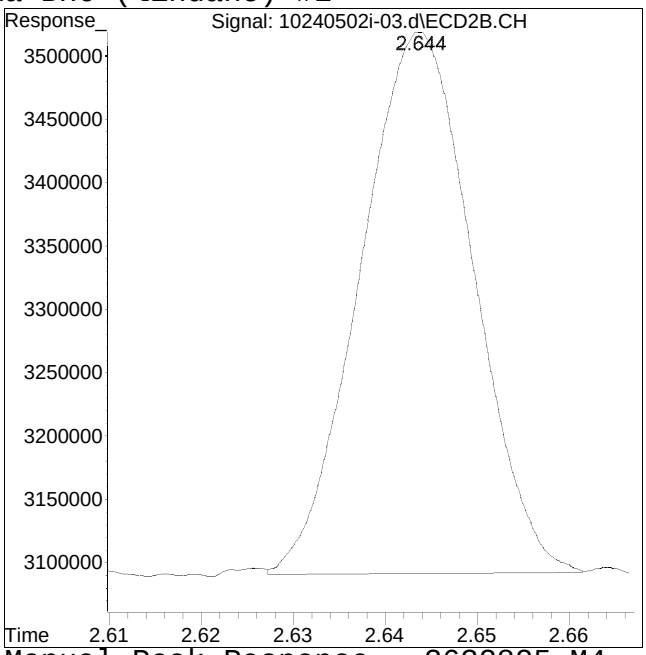
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-03.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:08 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 5/7/2024 5:18 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 3651585



Manual Peak Response = 3632825 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.427	385.2E6	140.5E6	25.000M4	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.919	19802922	5740769	1.184M4	1.087M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.37%#	2.17%#
27) s	Decachlorobi	6.307	7.016	16814503	5655412	1.174	1.210M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.35%#	2.42%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.250	20668841	6963623	1.157M4	1.147M4
4) t	alpha-BHC	1.976	2.349	23270092	7267154	1.000M4	0.966M3
5) t	gamma-BHC (l	2.180	2.643	22270737	7020981	1.010M3	0.994M3
6) t	beta-BHC	2.236	2.709	11514963	3841675	1.176M4	1.150M3
7) t	delta-BHC	2.365	2.983	22320216	7023991	1.026M4	0.990M4
8) t	Heptachlor	2.527	3.052	23323989	7629825	1.114M4	1.088M3
9) t	Aldrin	2.771	3.380	21433909	6544847	1.085M3	1.024M3
10) t D	Alachlor	2.893	3.257	3652421	1386329	0.271M4	1.218M4
11) t D	Chlorpyrifos	2.985	3.619	12186106	4356684	0.297M4	1.221M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.318	4.009	21325650	7277987	1.133M4	1.139M4
13)	t	gamma-Chlord	3.441	4.232	19979327	6236083	1.161M4	1.097M4
14)	t	alpha-Chlord	3.576	4.397	23506940	7107472	1.202M4	1.112M4
15)	t	4,4'-DDE	3.672	4.586	19490961	5888167	1.053M4	0.996M4
16)	t	Endosulfan I	3.714	4.457	20455266	6599986	1.137M4	1.110M3
17)	t	Dieldrin	3.974	4.742	20178560	6321739	1.091M3	1.063M4
18)	t	Endrin	4.230	5.035	20544747	6389309	1.082	1.047M4
19)	t	4,4'-DDD	4.337	5.150	15926678	4851929	1.058M4	1.020M4
20)	t	Endosulfan I	4.469	5.230	19054901	6067565	1.162M4	1.135M4
21)	t	4,4'-DDT	4.630	5.425	17757244	5605820	1.066	1.040M4
22)	t	Endrin Aldeh	4.887	5.523	17104107	4201204	1.303M4	1.002M4
23)	t D	Methoxychlor	5.116	5.983	10777401	3439280	0.487M4	1.140M3
24)	t D	Mirex	5.174	6.127	17587715	5969064	0.633M3	1.232
25)	t	Endosulfan S	5.280	5.749	18746599	5996581	1.153M4	1.125M4
26)	t	Endrin Keton	5.507	6.159	20141056	6385254	1.130M4	1.100M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

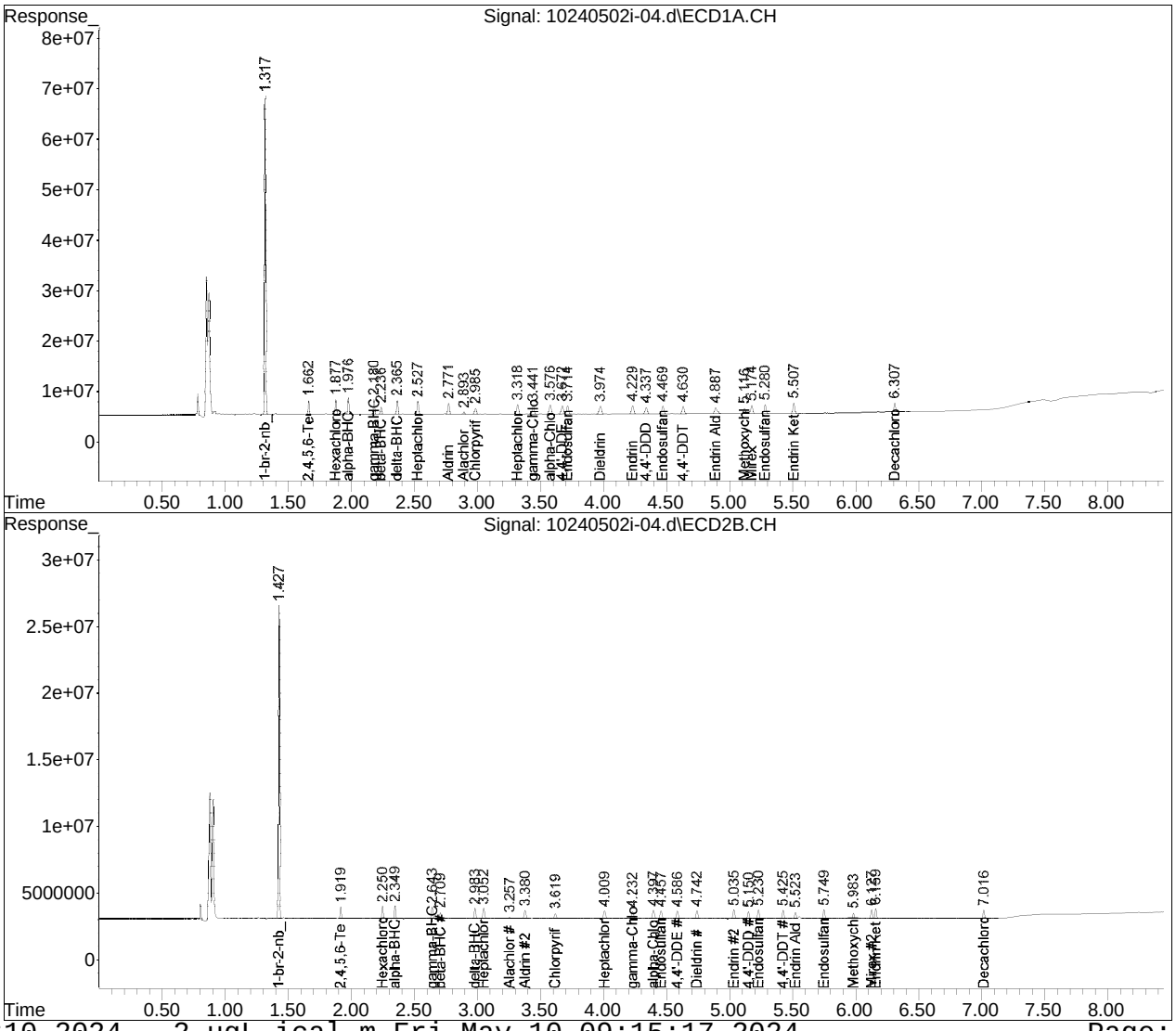
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

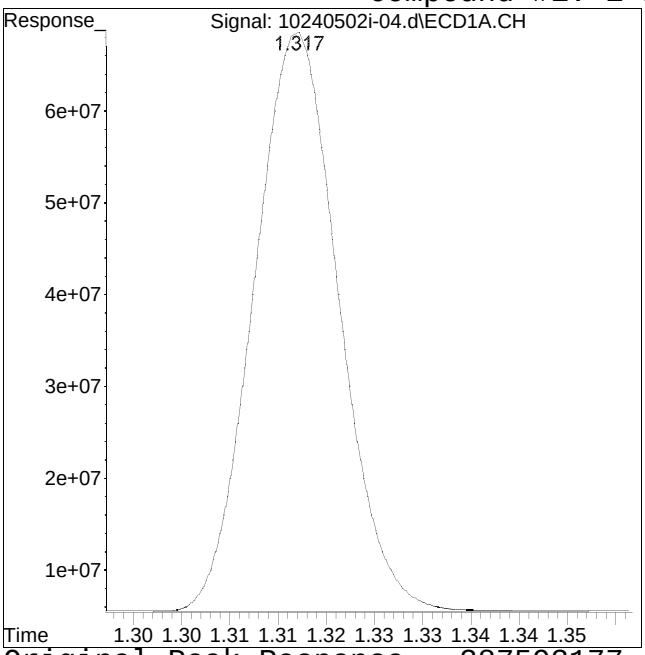
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



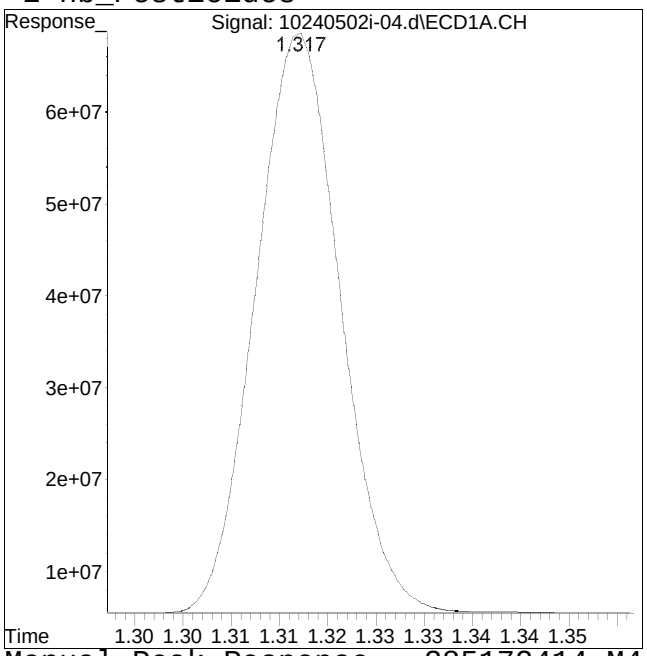
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 387593177



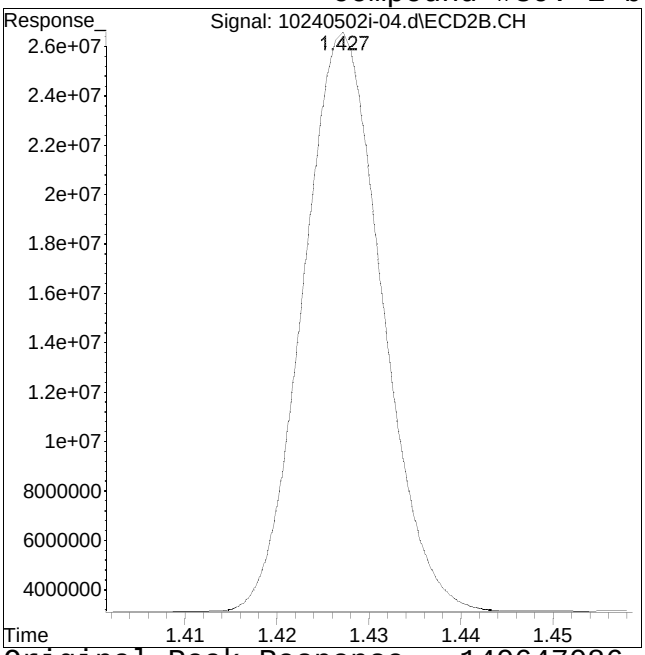
Manual Peak Response = 385172414 M4

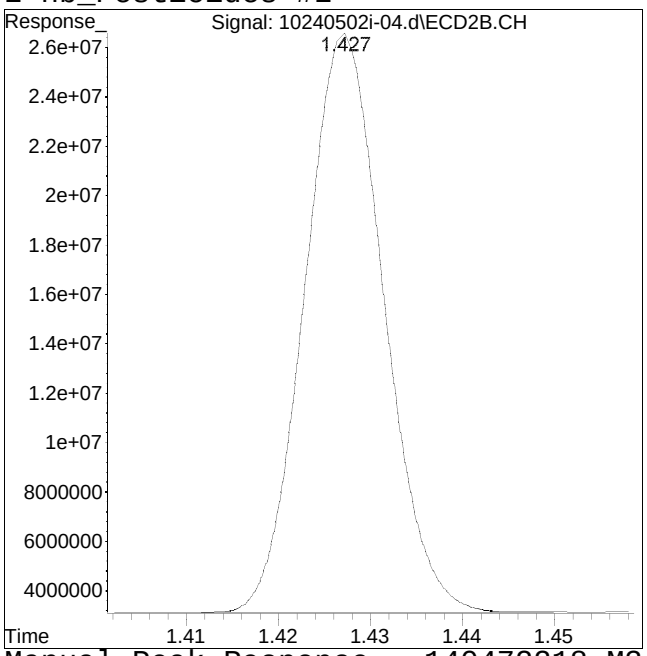
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #39: 1-br-2-nb_Pesticides #2





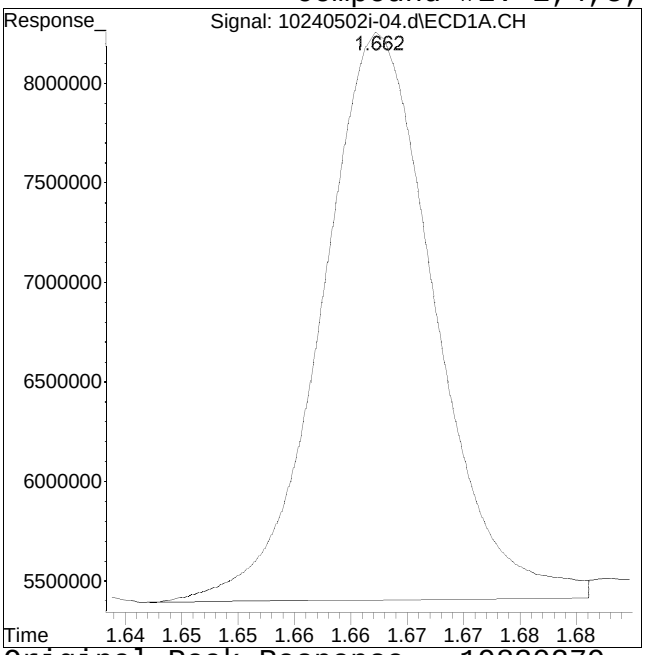
Original Peak Response = 140647086 Manual Peak Response = 140472218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

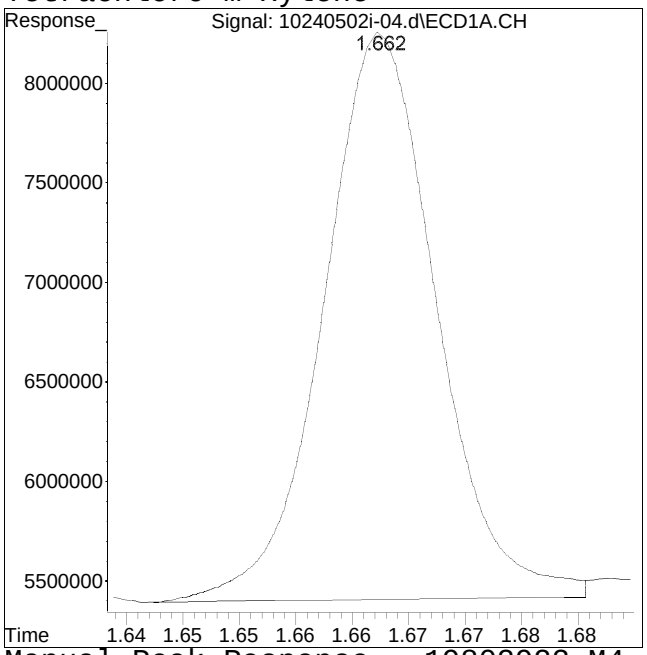
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





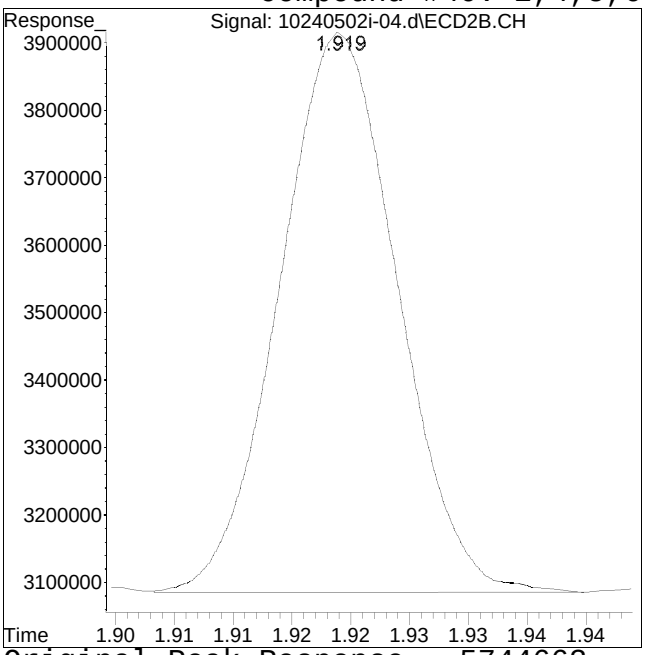
Original Peak Response = 19830279 Manual Peak Response = 19802922 M4
M4 = Poor automated baseline construction.

Manual Integration Report

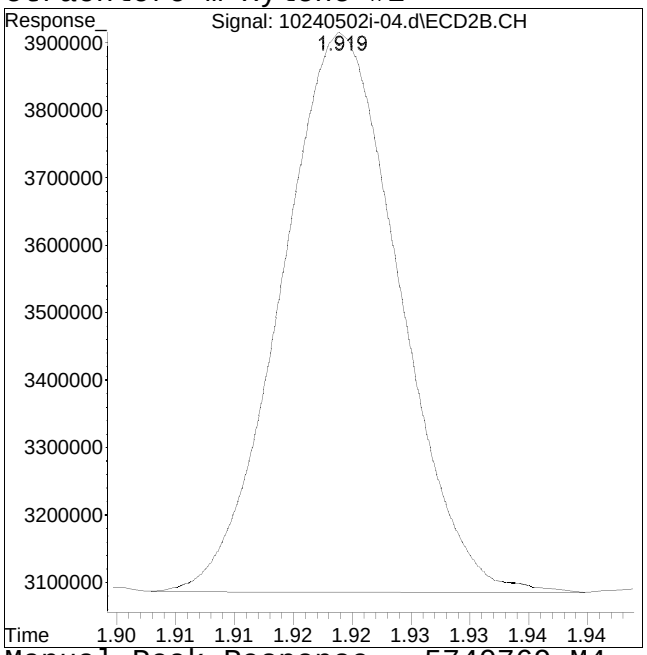
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 5744663



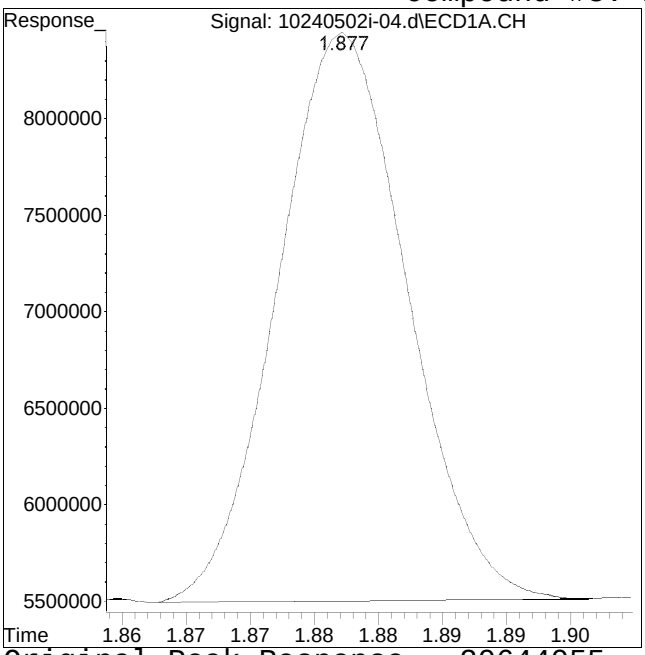
Manual Peak Response = 5740769 M4

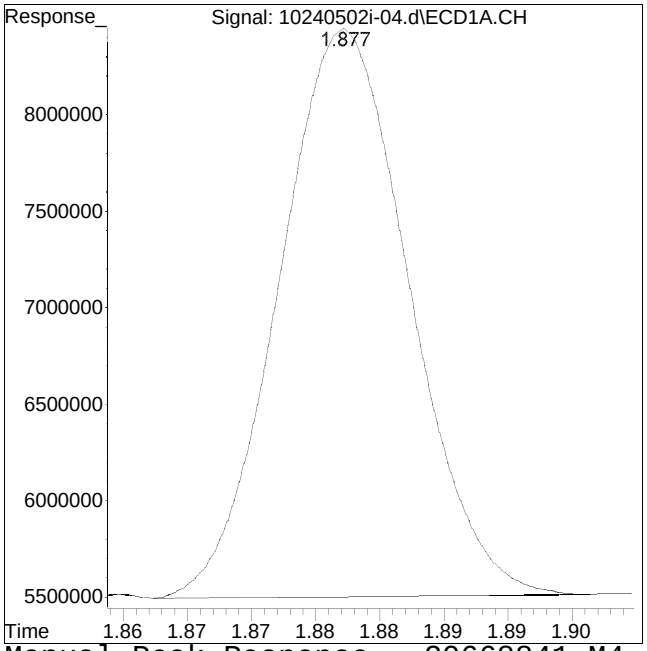
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #3: Hexachlorobenzene





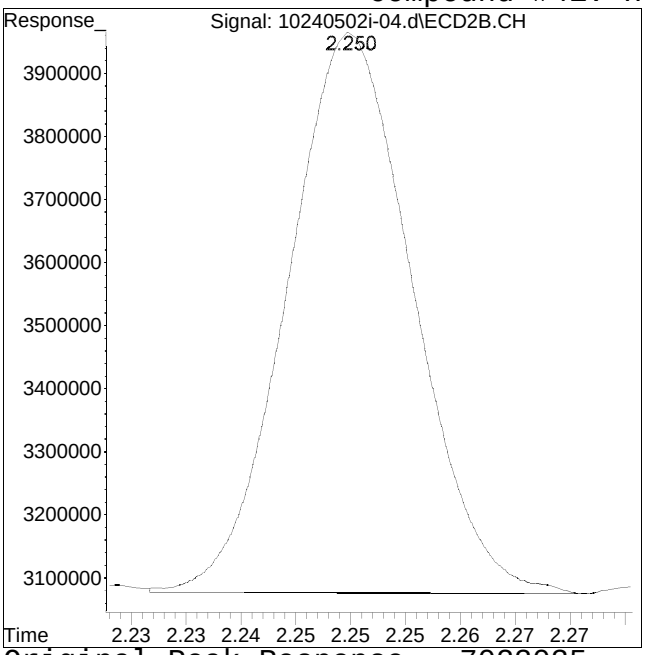
Original Peak Response = 20644055 Manual Peak Response = 20668841 M4
M4 = Poor automated baseline construction.

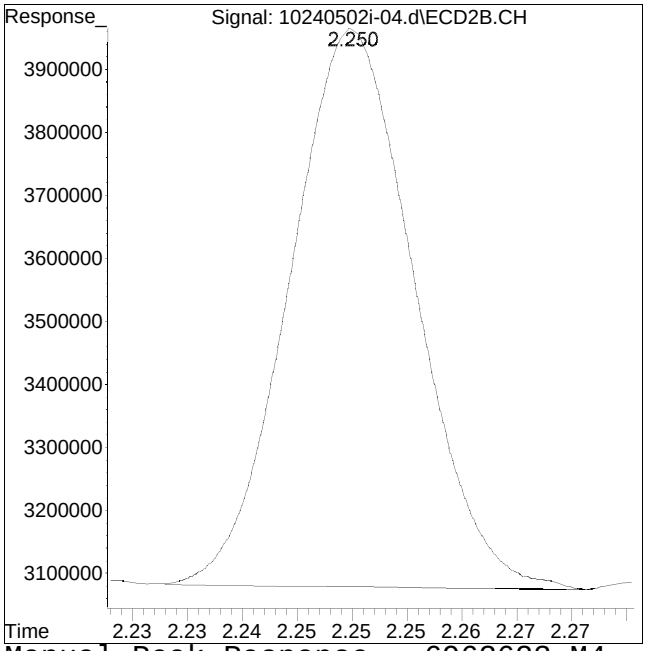
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #41: Hexachlorobenzene #2



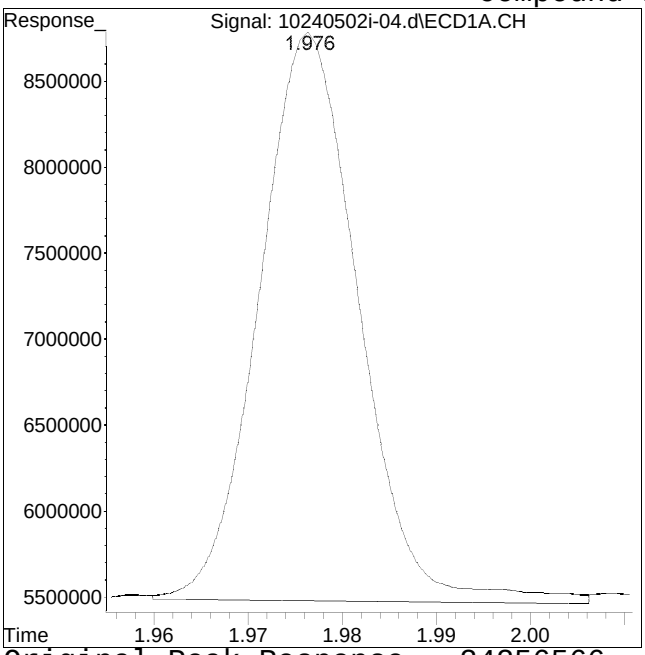


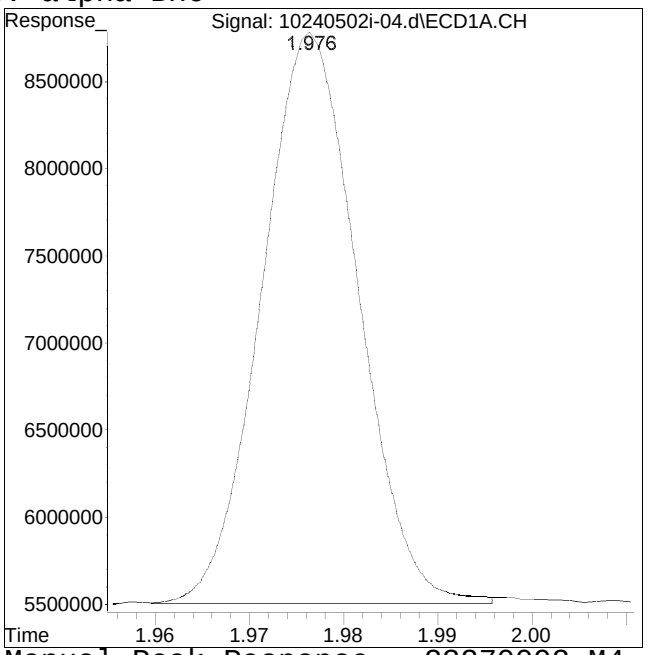
Original Peak Response = 7023035 Manual Peak Response = 6963623 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #4: alpha-BHC



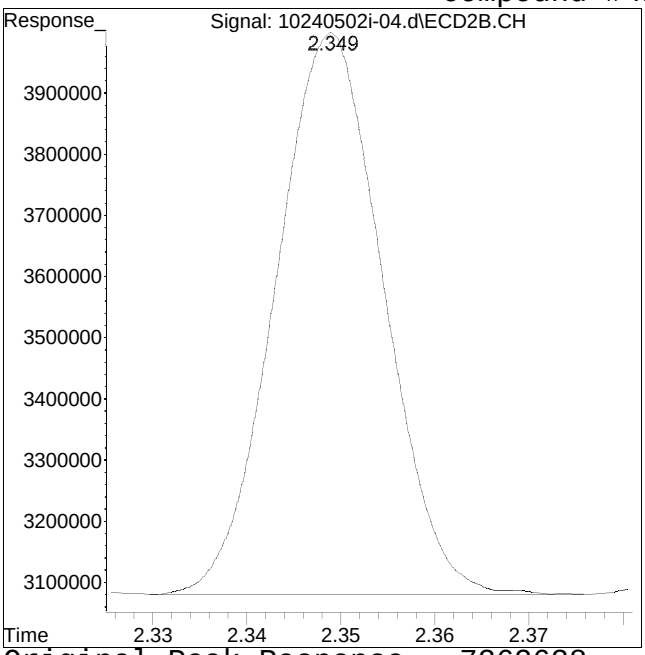


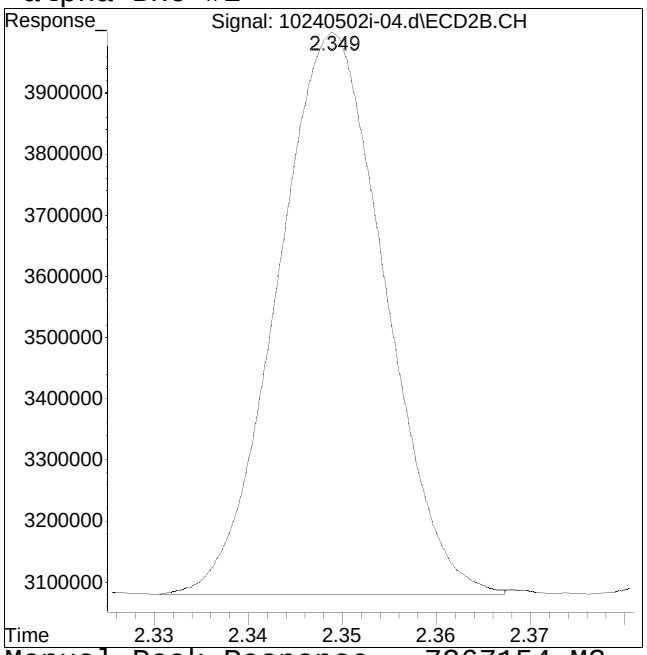
Original Peak Response = 24256566 Manual Peak Response = 23270092 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #42: alpha-BHC #2



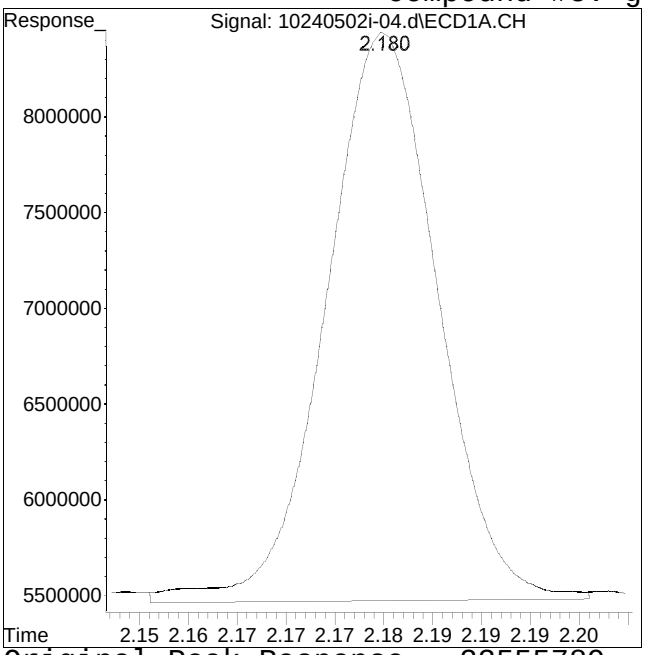


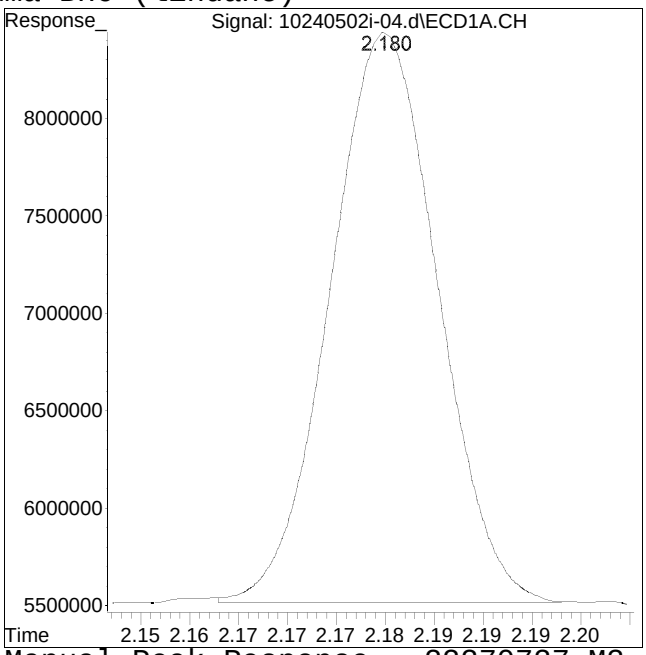
Original Peak Response = 7262628 Manual Peak Response = 7267154 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #5: gamma-BHC (lindane)



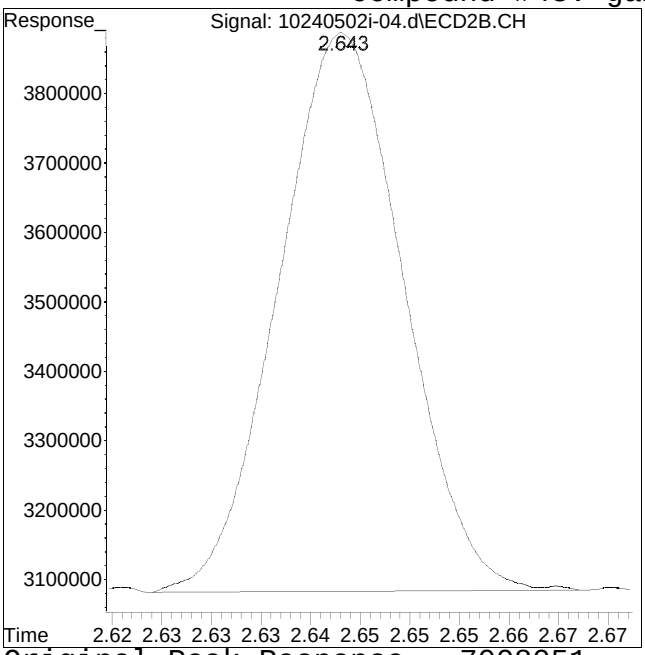


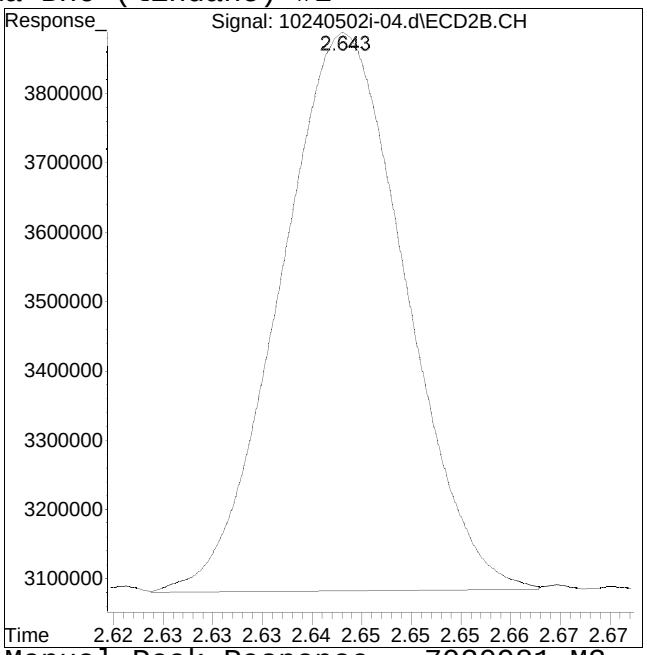
Original Peak Response = 23555789 Manual Peak Response = 22270737 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #43: gamma-BHC (lindane) #2



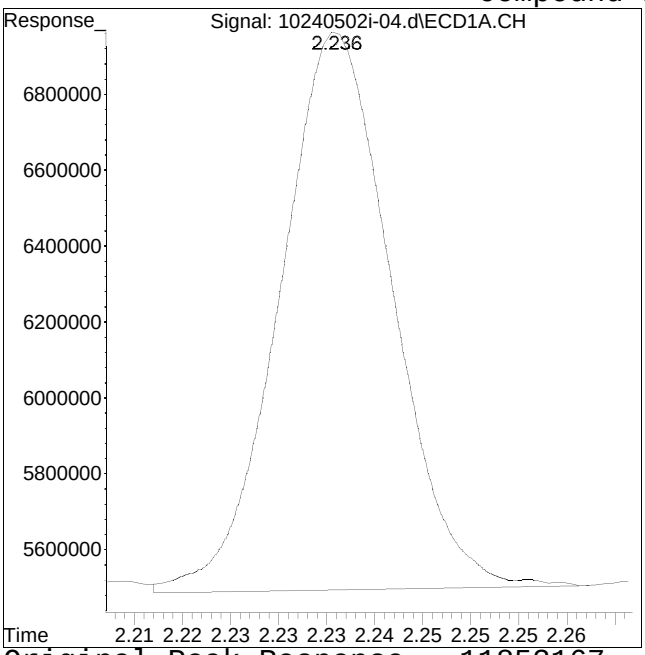


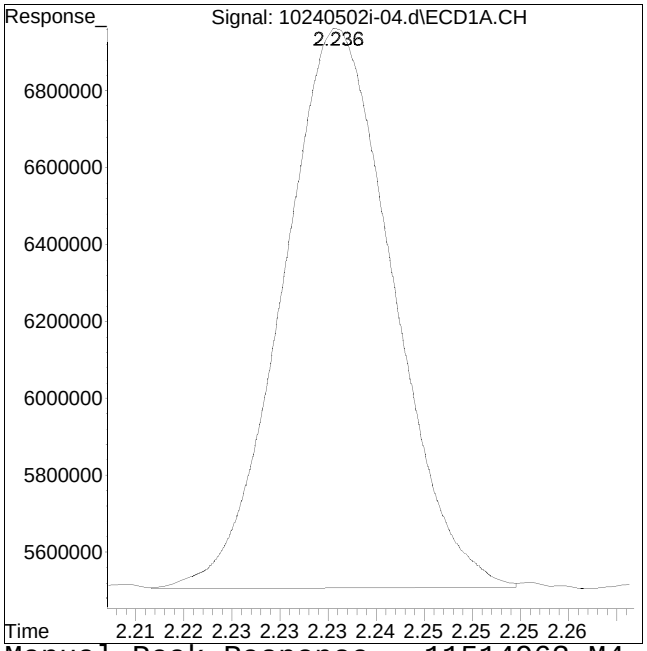
Original Peak Response = 7008051 Manual Peak Response = 7020981 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #6: beta-BHC



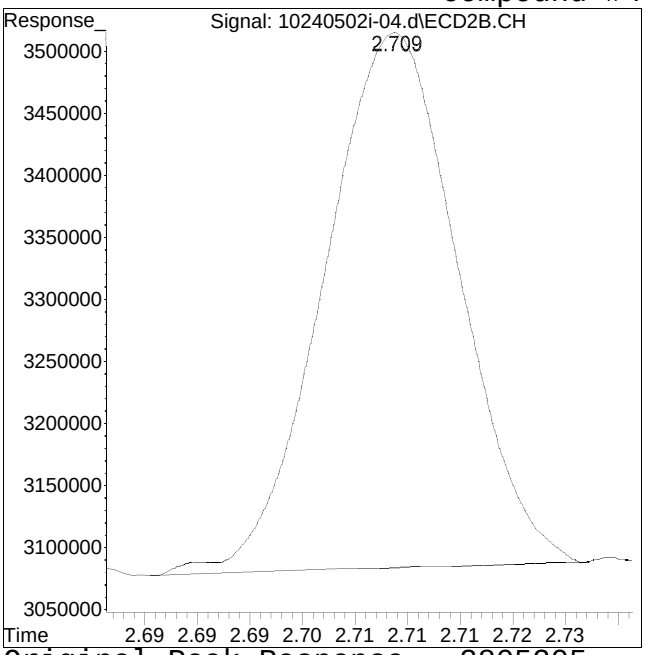


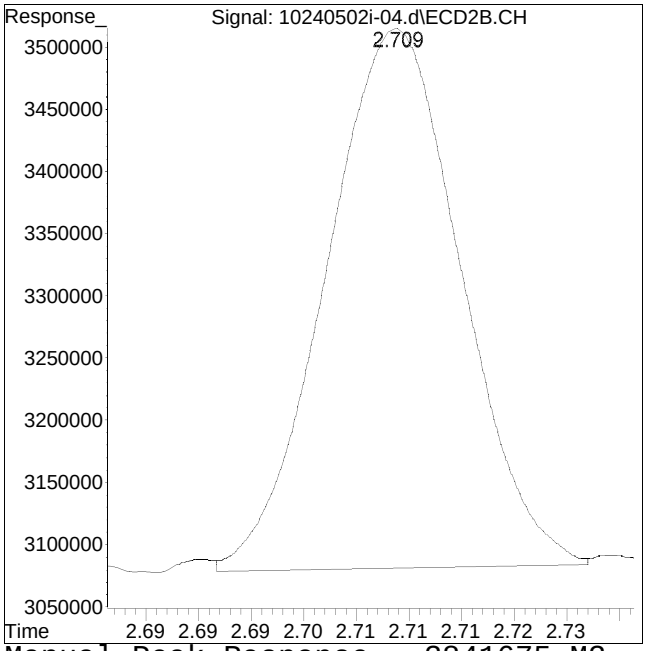
Original Peak Response = 11853167 Manual Peak Response = 11514963 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #44: beta-BHC #2



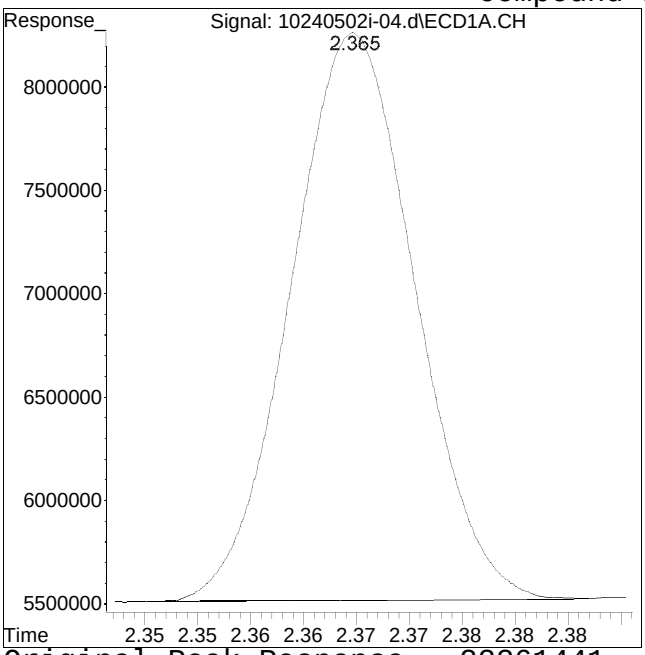


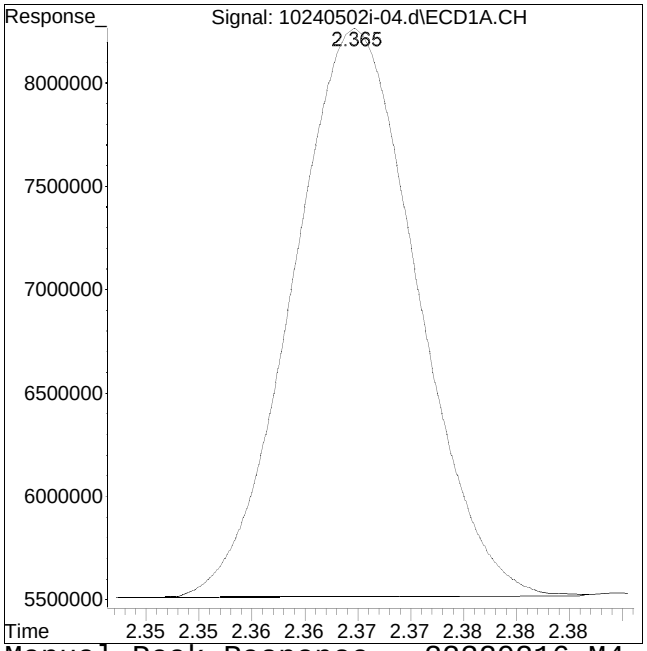
Original Peak Response = 3805205 Manual Peak Response = 3841675 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #7: delta-BHC



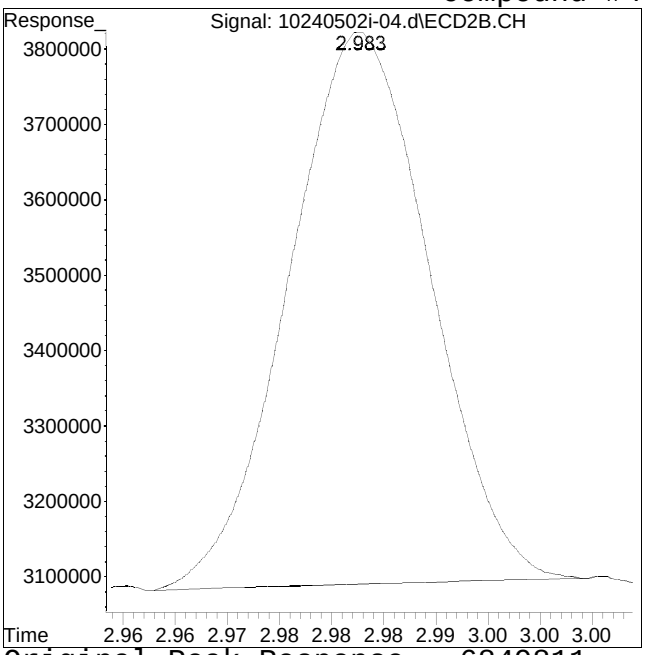


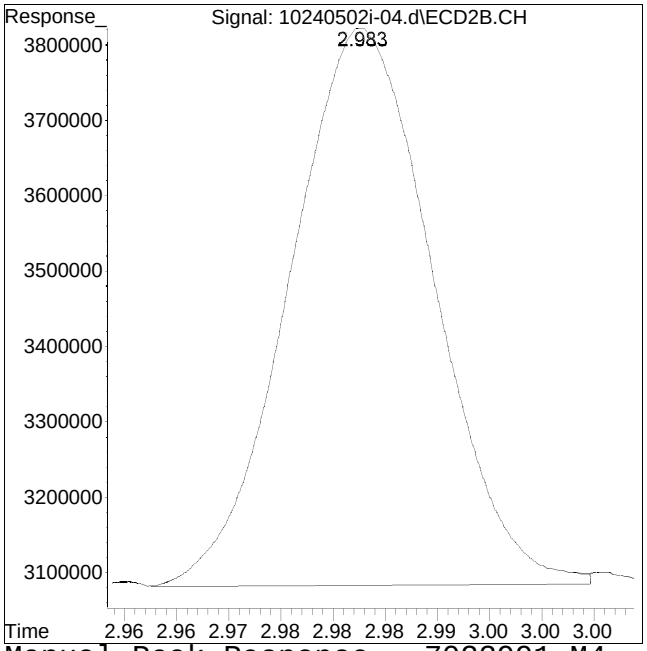
Original Peak Response = 22261441 Manual Peak Response = 22320216 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #45: delta-BHC #2



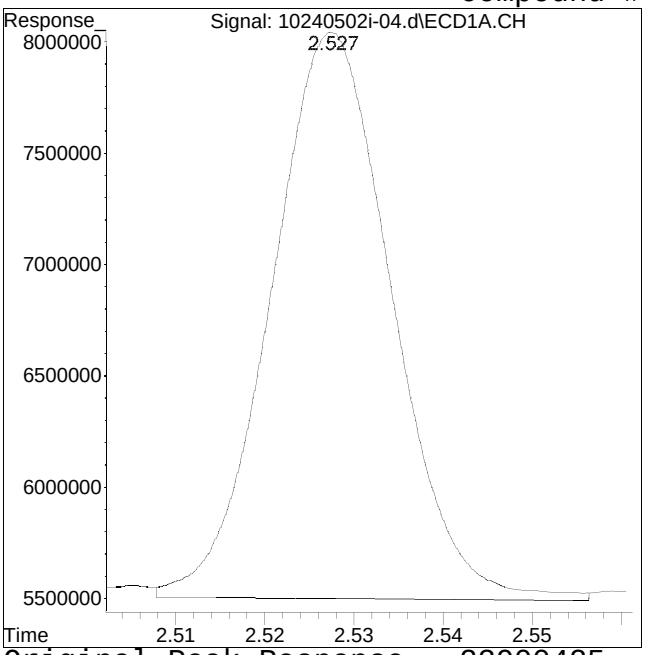


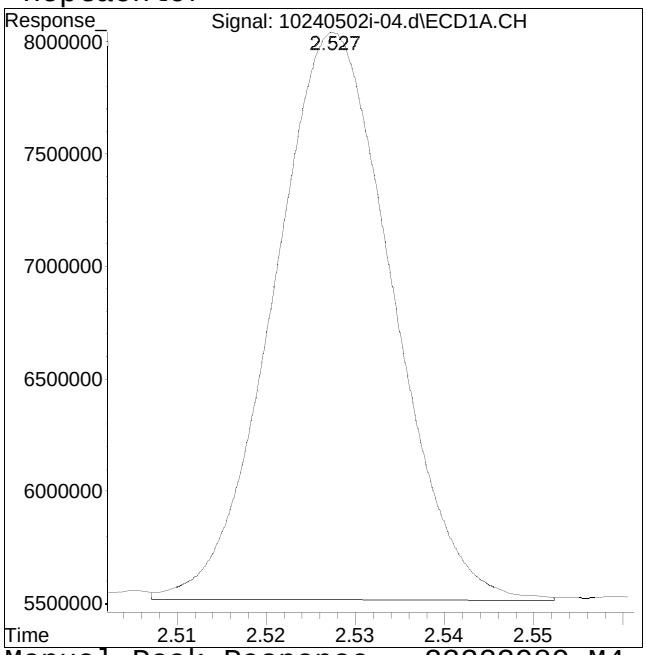
Original Peak Response = 6849811 Manual Peak Response = 7023991 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #8: Heptachlor



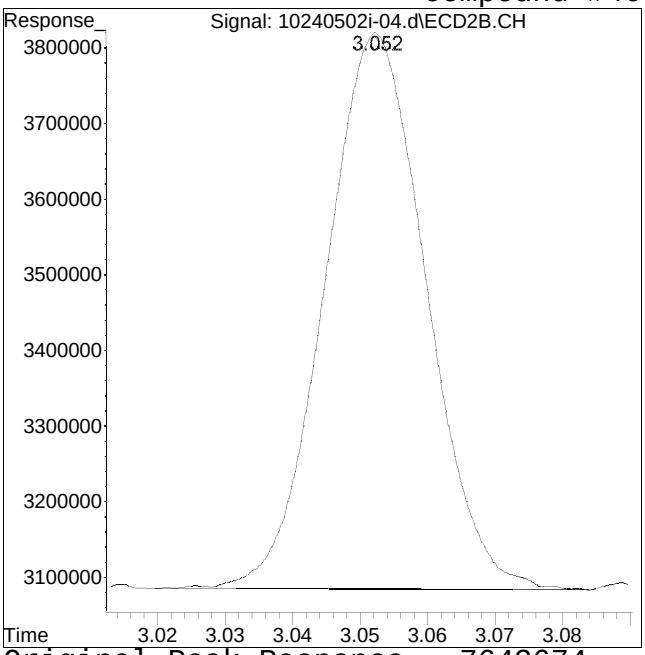


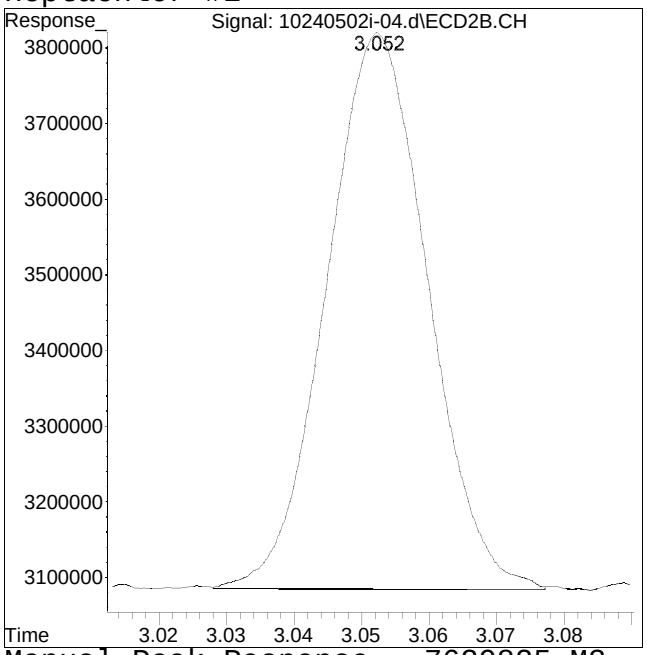
Original Peak Response = 23900425 Manual Peak Response = 23323989 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #46: Heptachlor #2



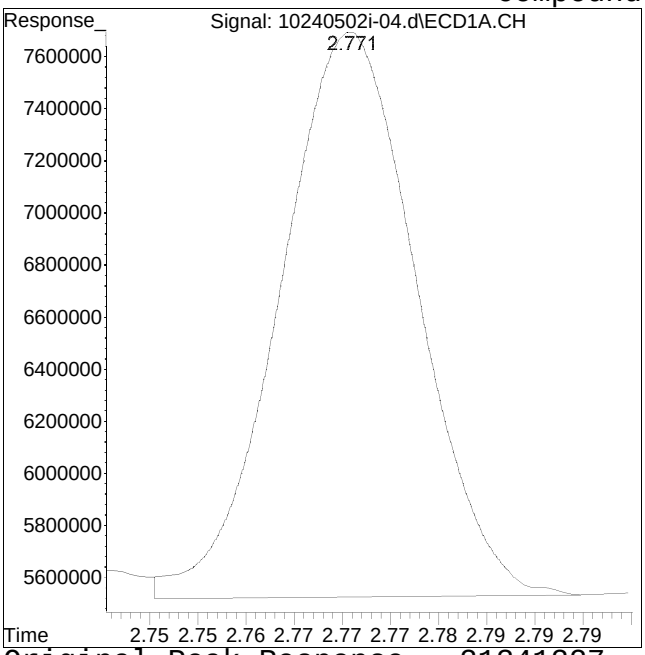


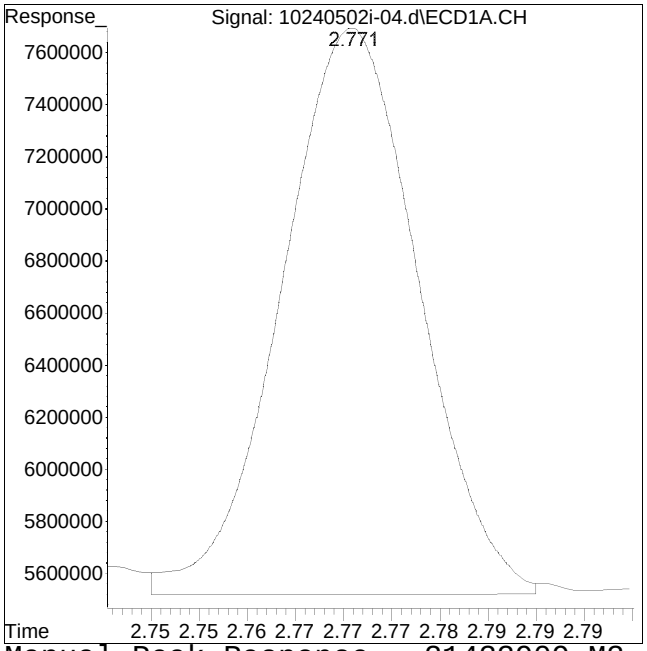
Original Peak Response = 7643674 Manual Peak Response = 7629825 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #9: Aldrin



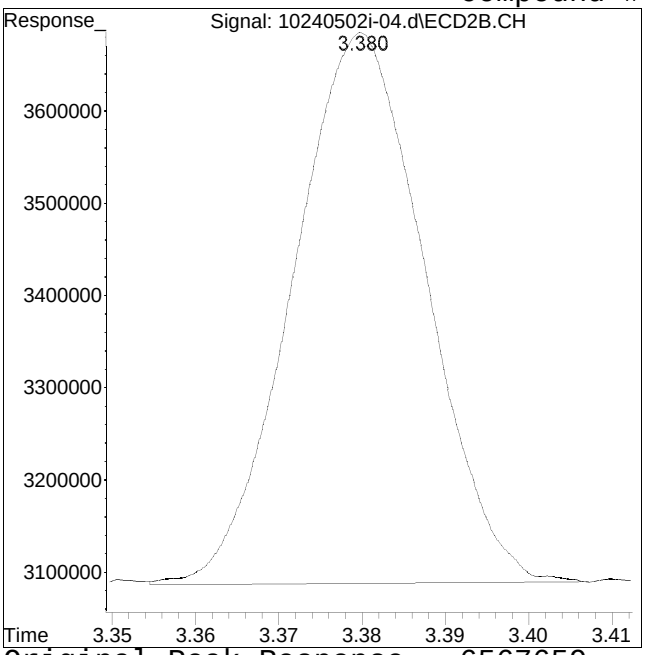


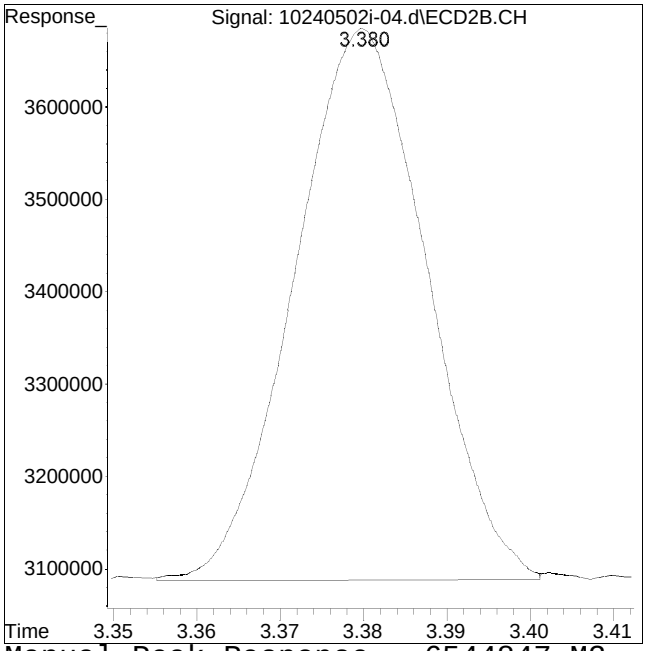
Original Peak Response = 21341227 Manual Peak Response = 21433909 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #47: Aldrin #2





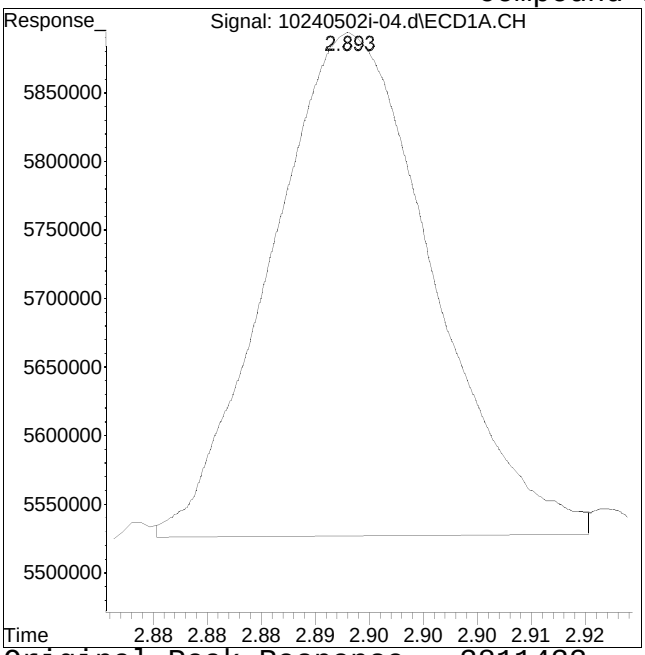
Original Peak Response = 6567659 Manual Peak Response = 6544847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

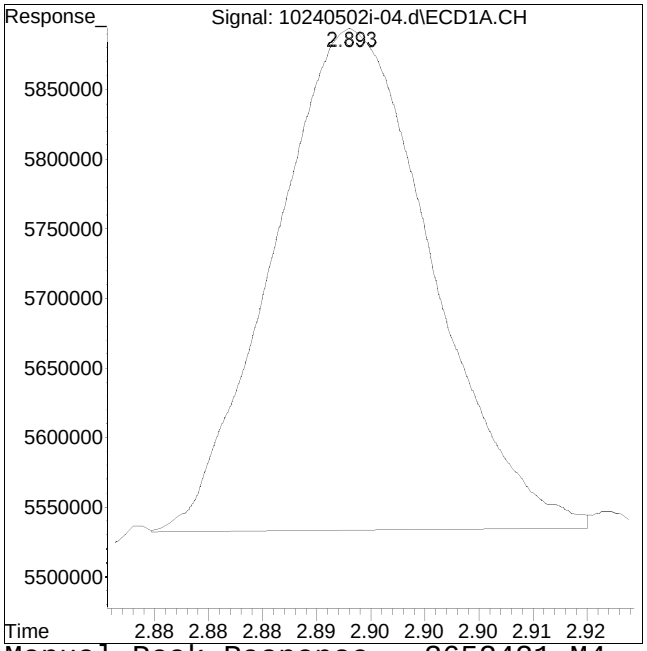
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #10: Alachlor



Original Peak Response = 3811433



Manual Peak Response = 3652421 M4

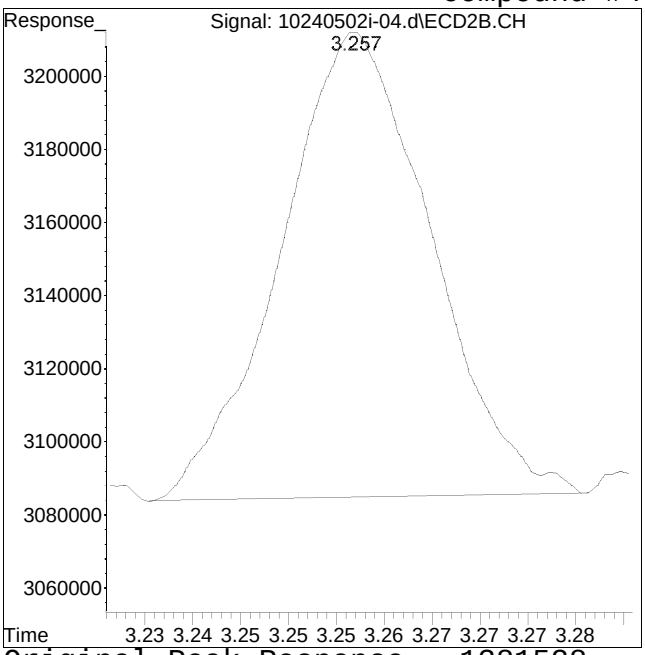
M4 = Poor automated baseline construction.

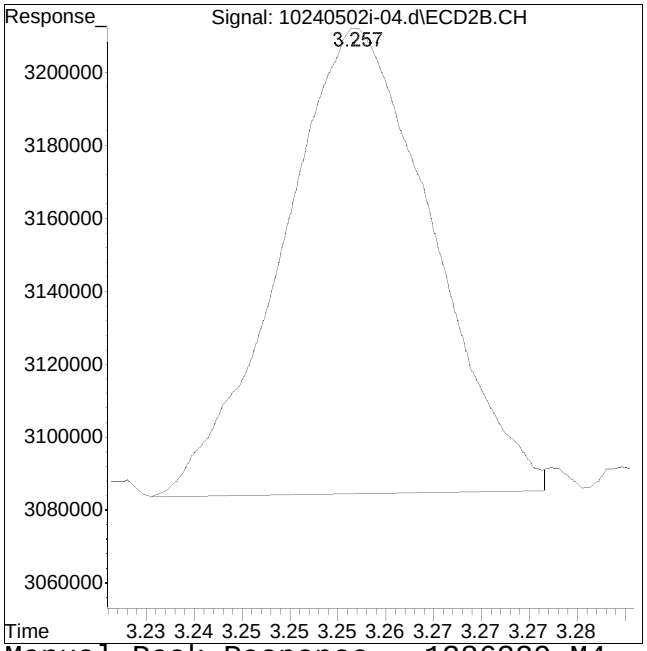
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #48: Alachlor #2



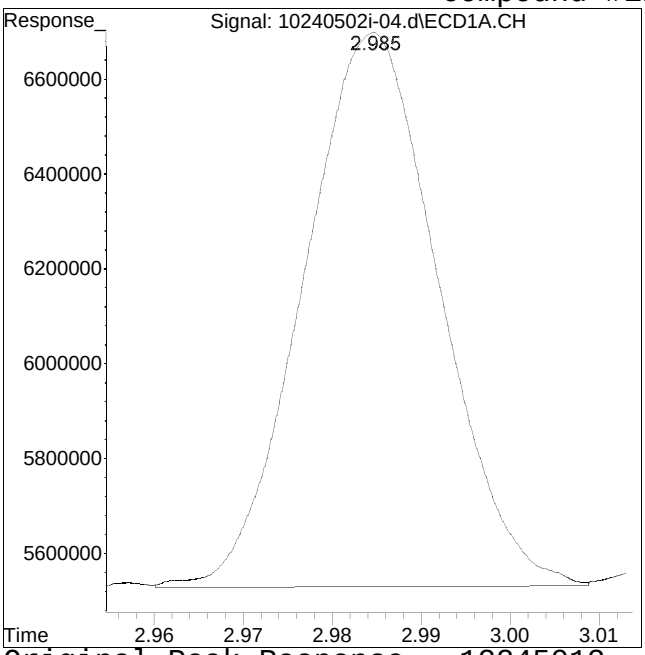


Original Peak Response = 1381528 Manual Peak Response = 1386329 M4
M4 = Poor automated baseline construction.

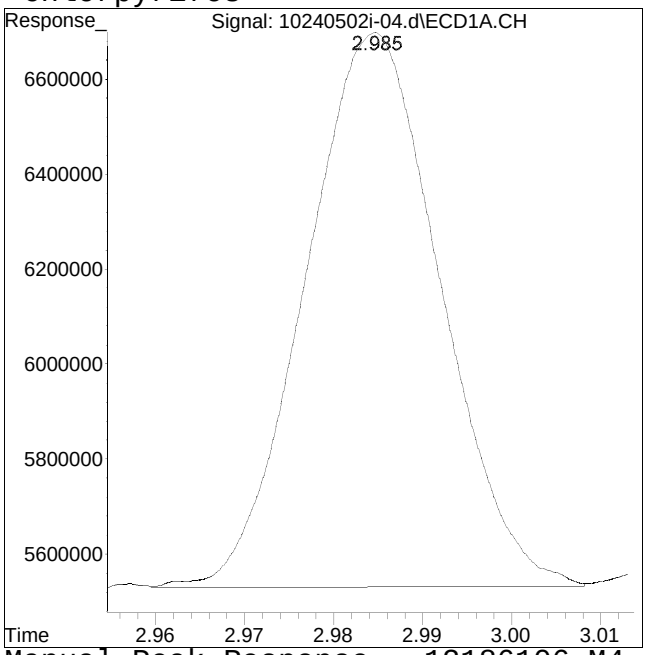
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #11: Chlorpyrifos



Original Peak Response = 12245012



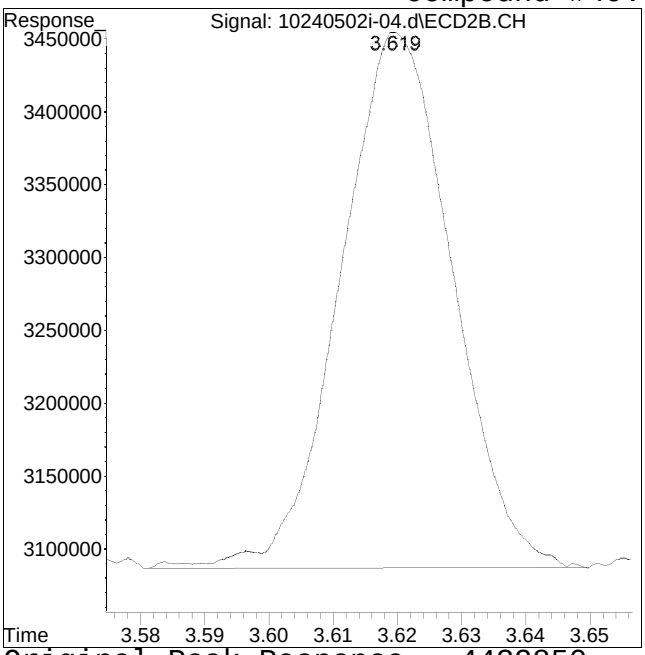
Manual Peak Response = 12186106 M4

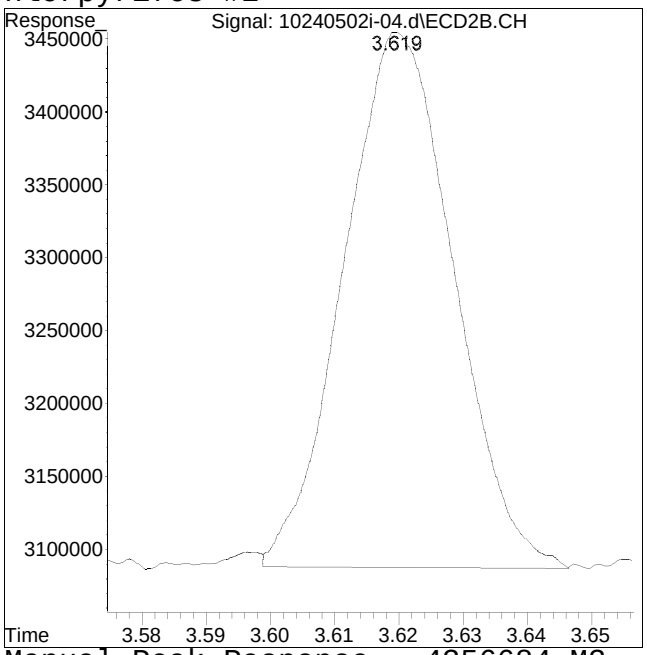
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #49: Chlorpyrifos #2



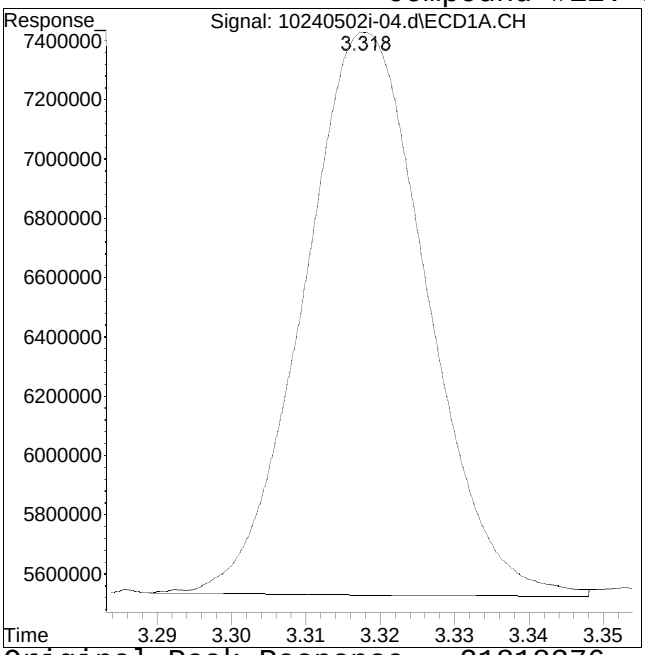


Original Peak Response = 4432850 Manual Peak Response = 4356684 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

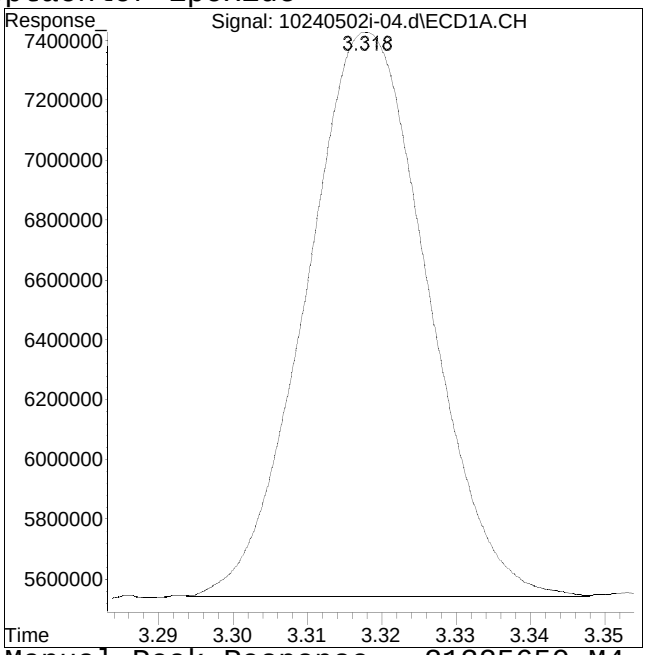
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 21818376



Manual Peak Response = 21325650 M4

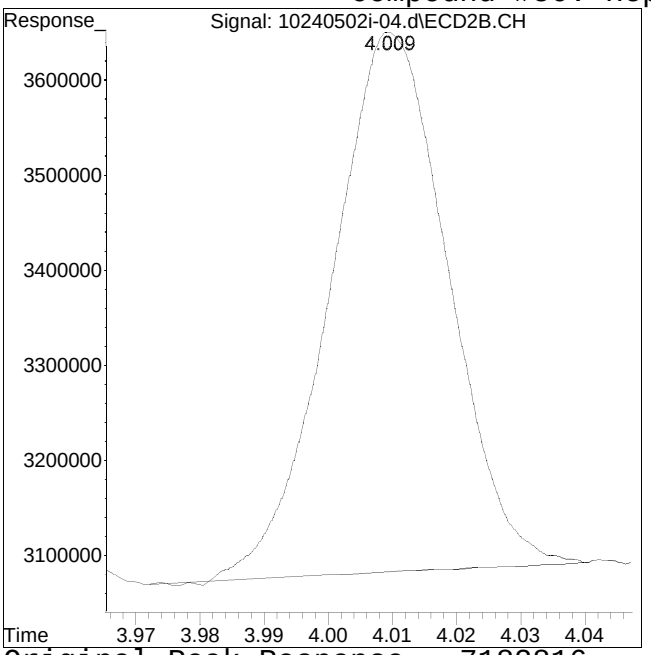
M4 = Poor automated baseline construction.

Manual Integration Report

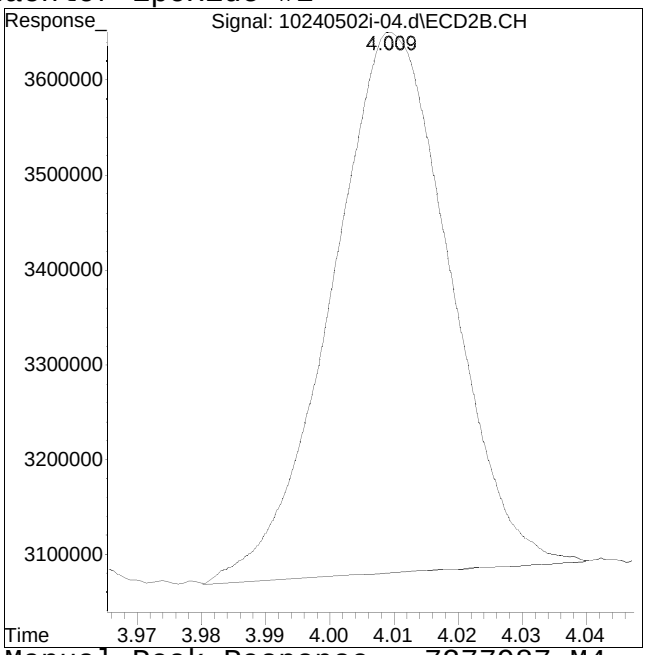
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 7182816



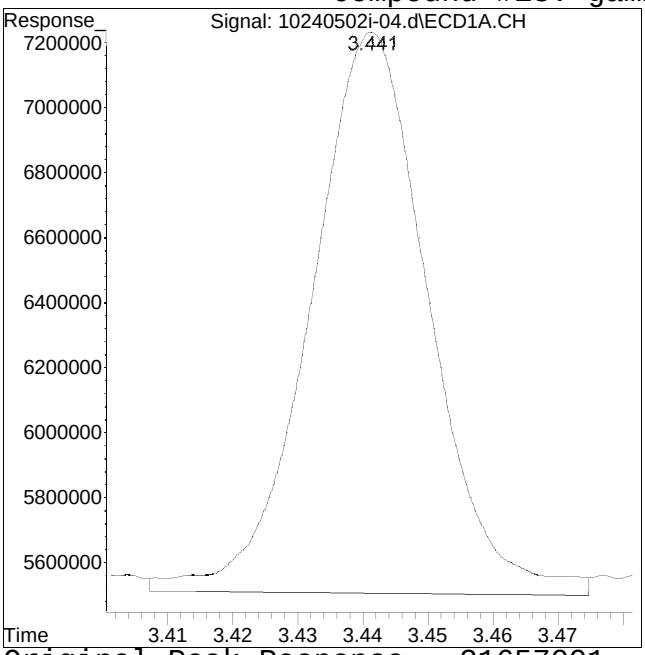
Manual Peak Response = 7277987 M4

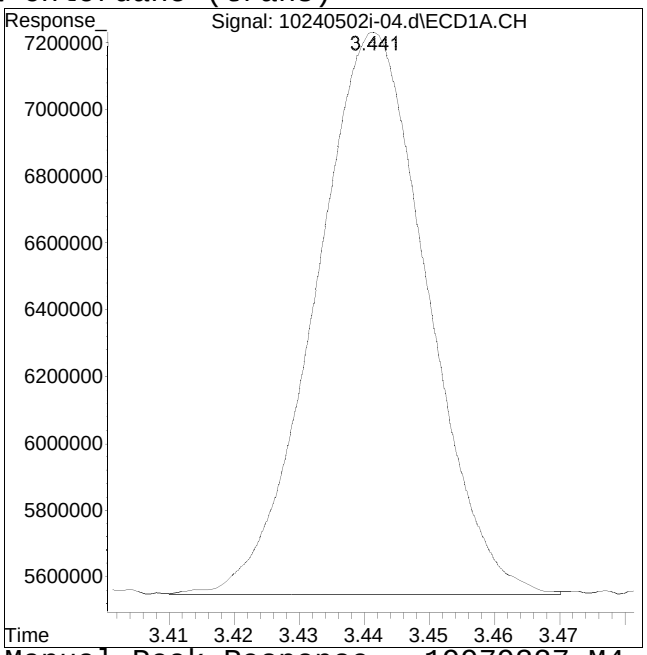
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #13: gamma-Chlordane (trans)



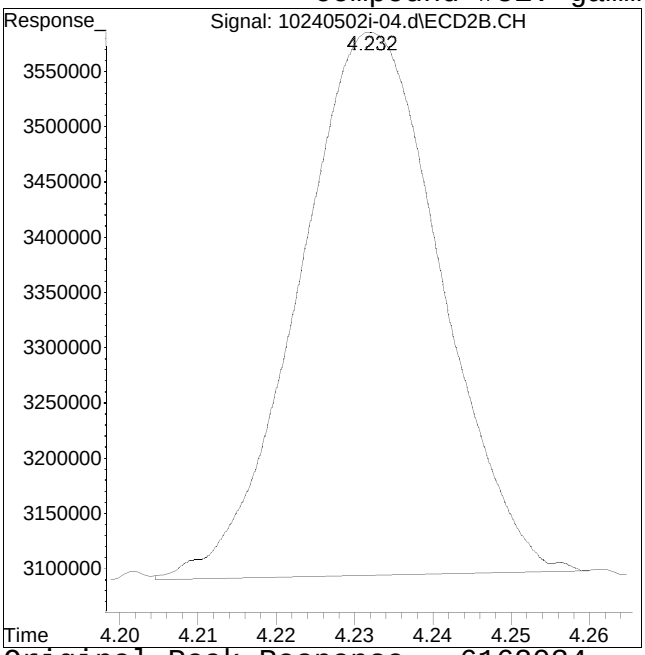


Original Peak Response = 21657091 Manual Peak Response = 19979327 M4
M4 = Poor automated baseline construction.

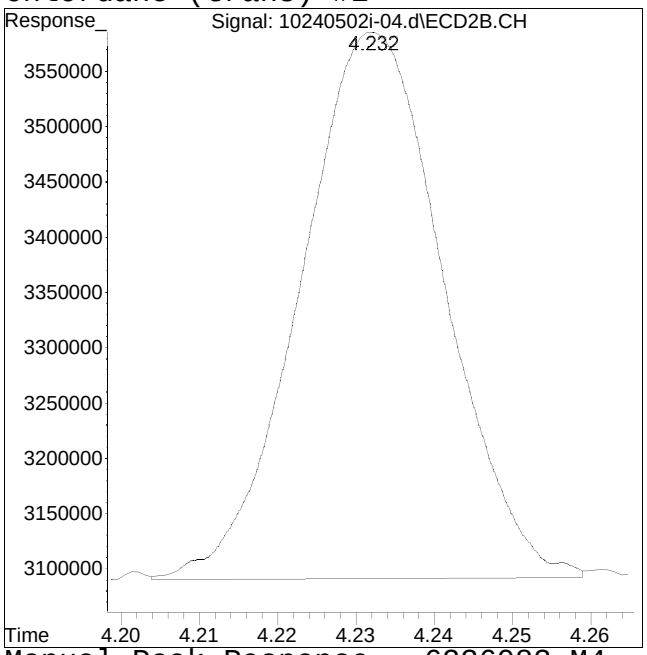
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 6162034



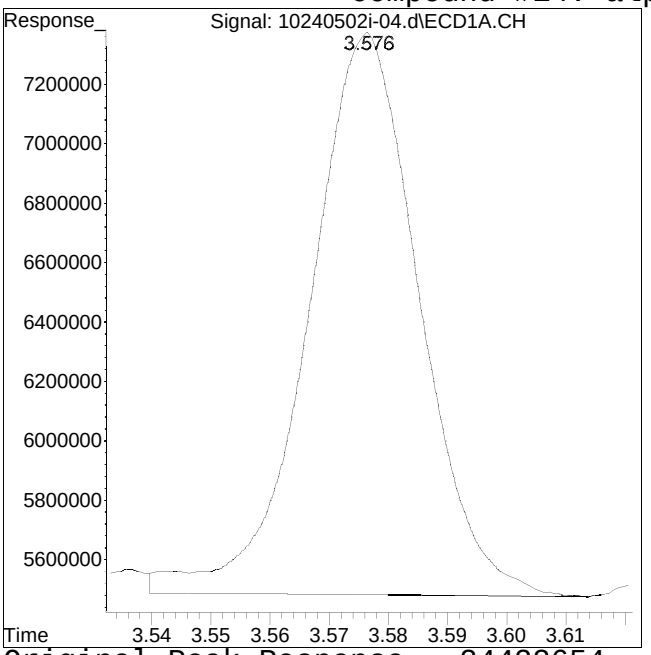
Manual Peak Response = 6236083 M4

M4 = Poor automated baseline construction.

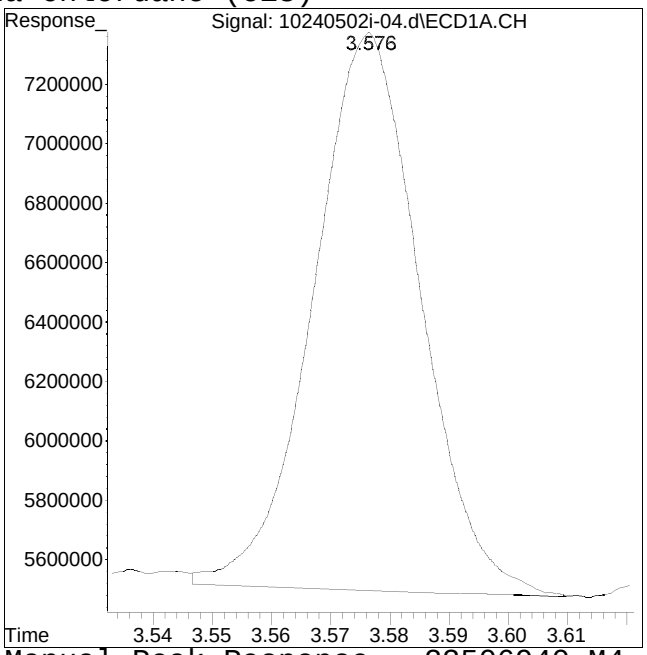
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 24422654



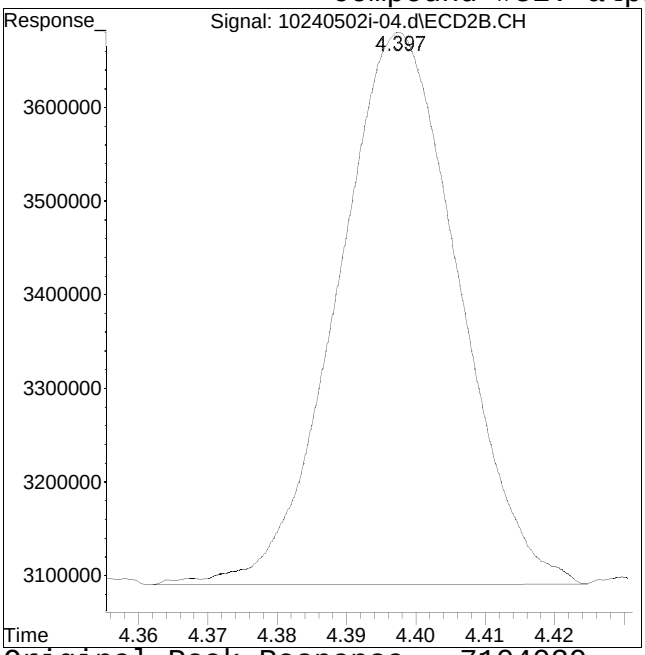
Manual Peak Response = 23506940 M4

M4 = Poor automated baseline construction.

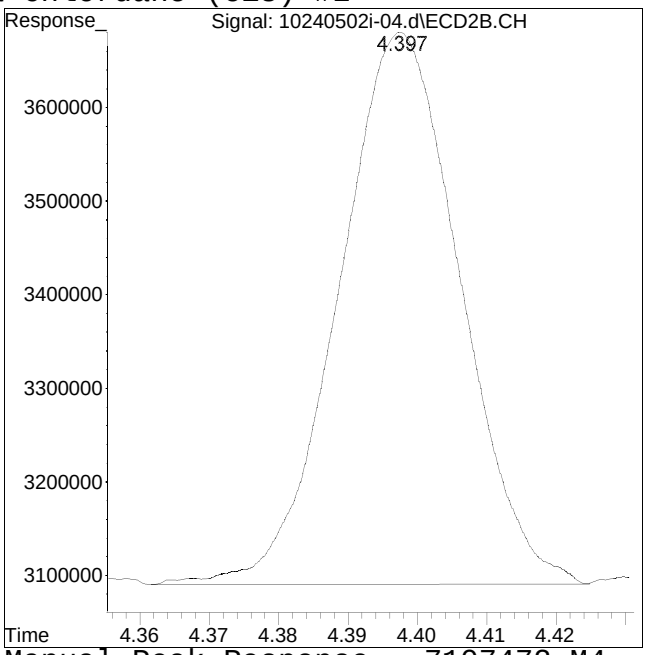
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 7104029



Manual Peak Response = 7107472 M4

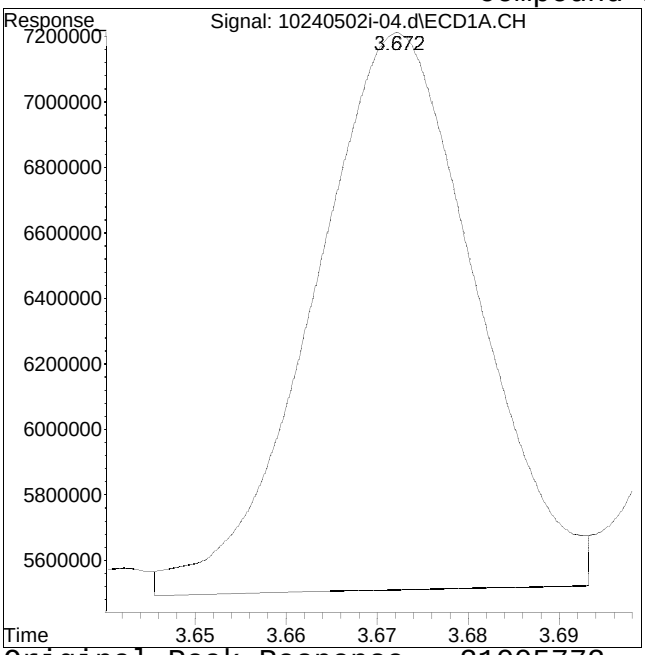
M4 = Poor automated baseline construction.

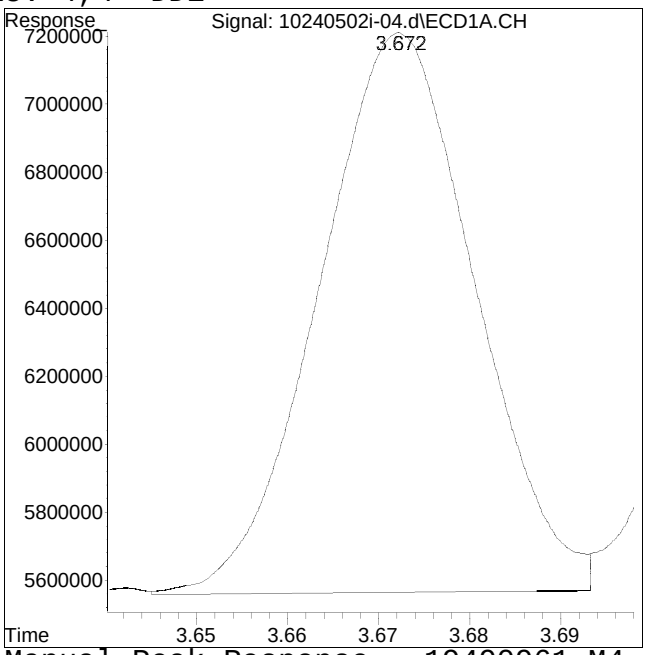
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #15: 4,4'-DDE



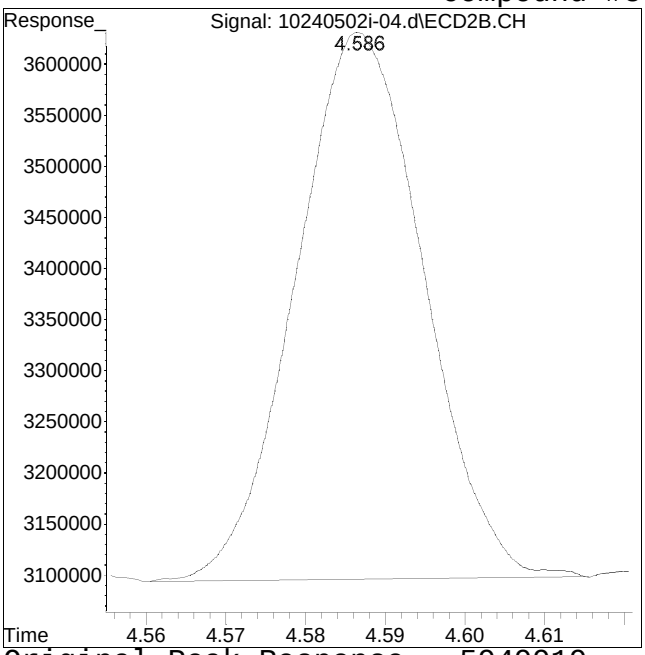


Original Peak Response = 21005772 Manual Peak Response = 19490961 M4
M4 = Poor automated baseline construction.

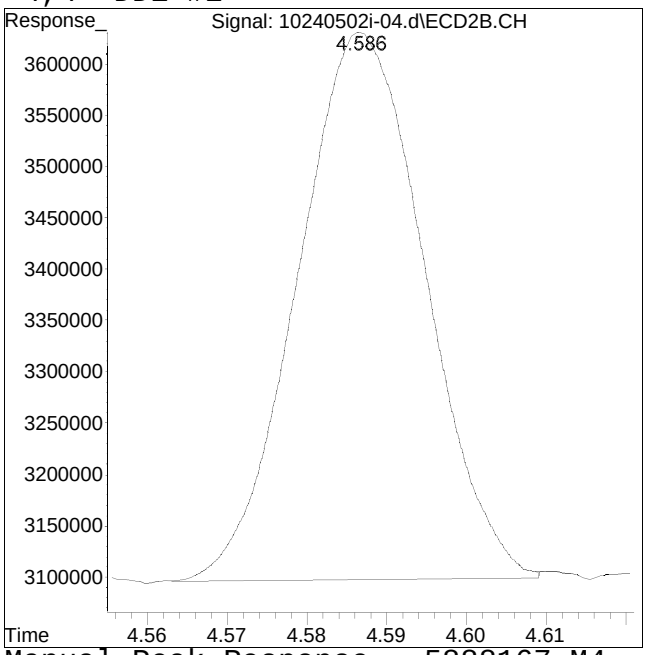
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 5949919



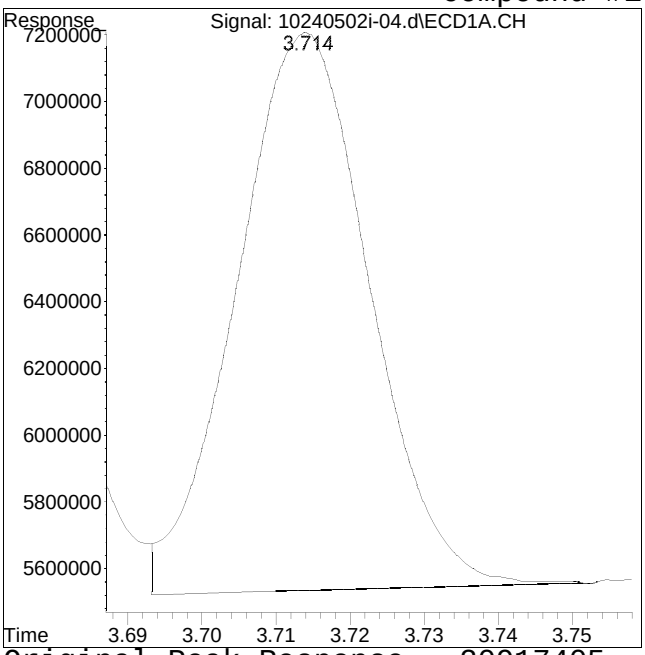
Manual Peak Response = 5888167 M4

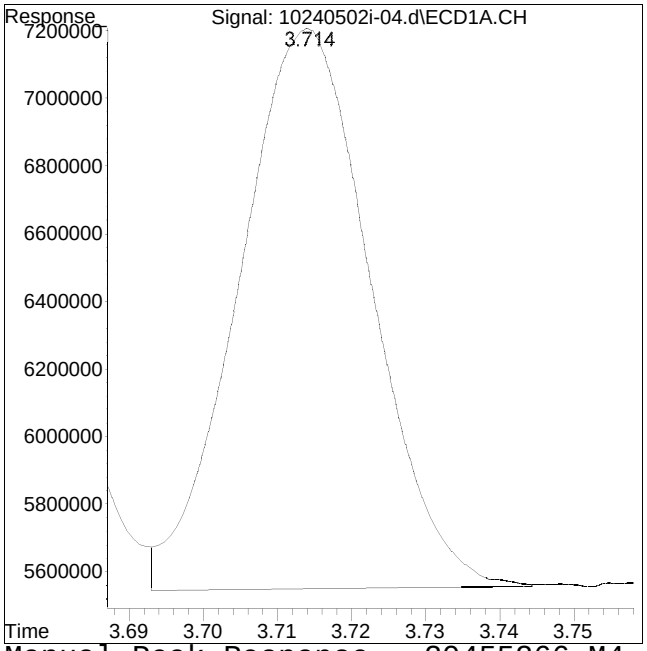
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #16: Endosulfan I



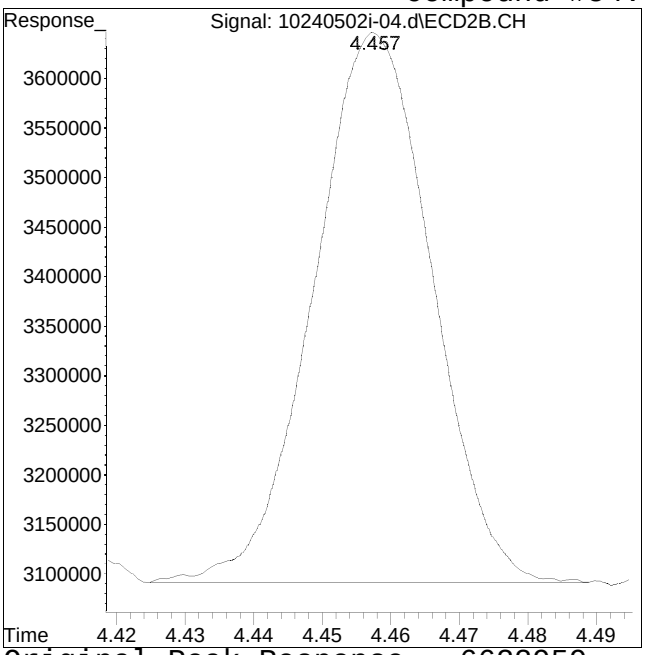


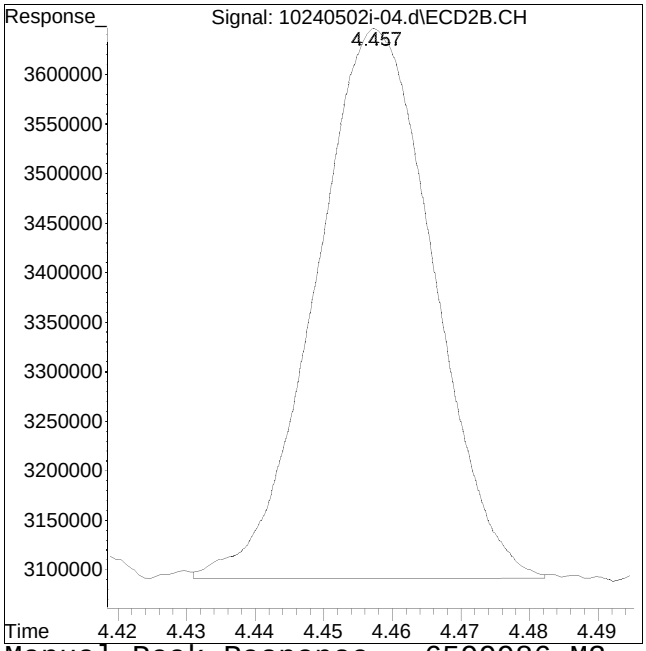
Original Peak Response = 20917405 Manual Peak Response = 20455266 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #54: Endosulfan I #2



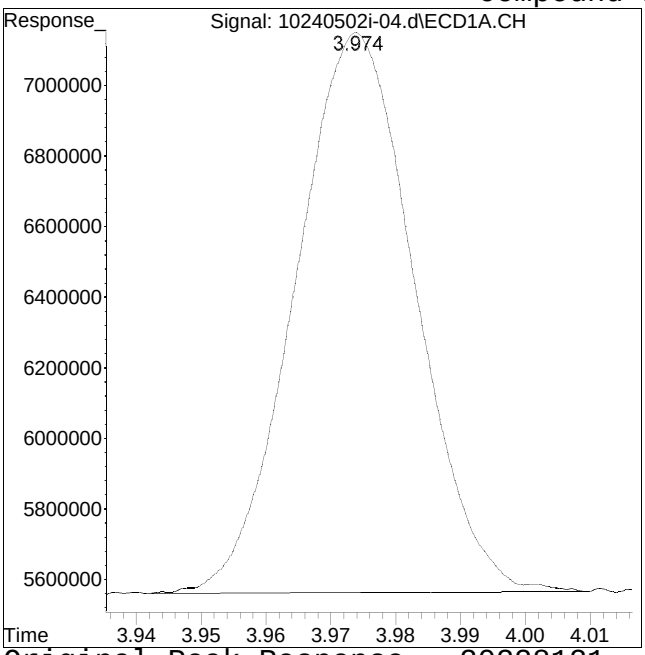


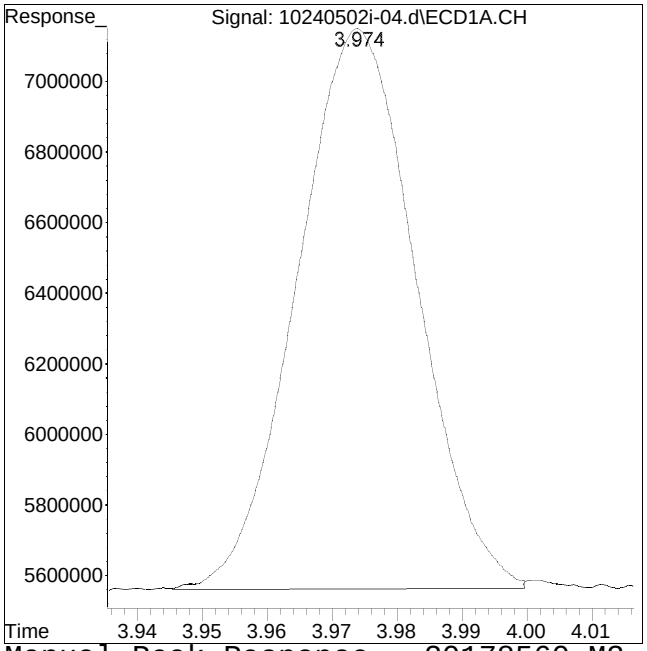
Original Peak Response = 6622959 Manual Peak Response = 6599986 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #17: Dieldrin



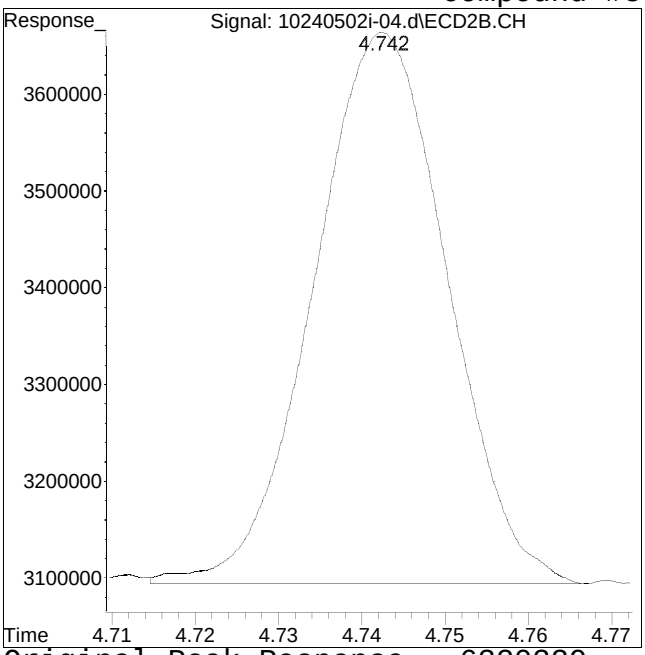


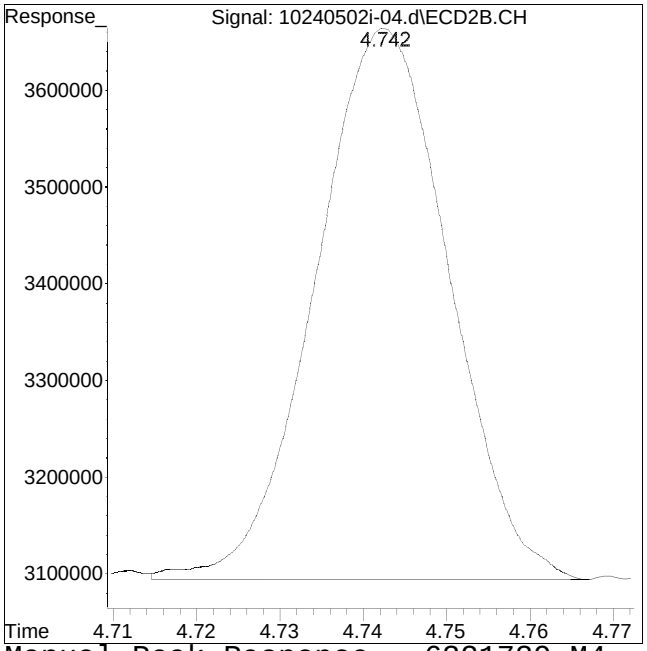
Original Peak Response = 20228121 Manual Peak Response = 20178560 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #55: Dieldrin #2



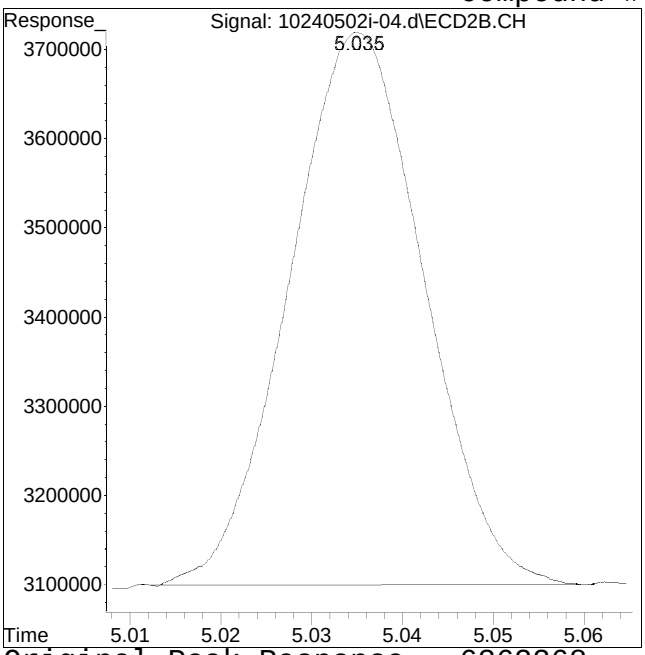


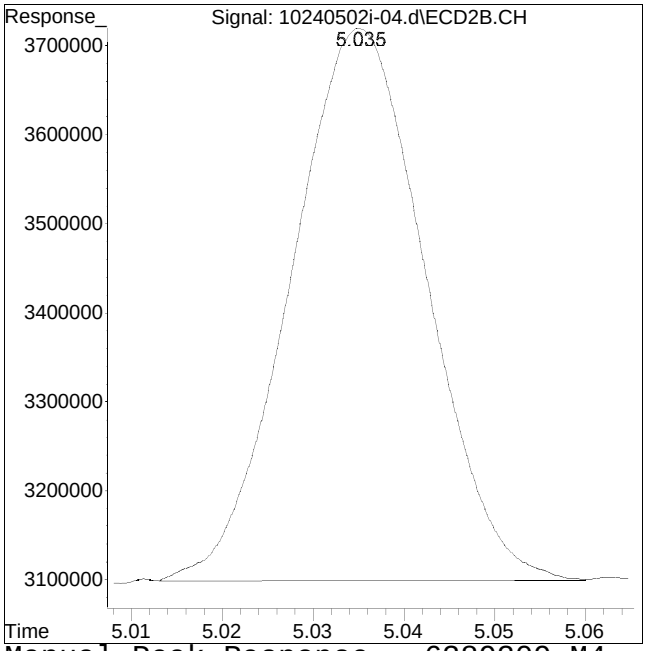
Original Peak Response = 6320329 Manual Peak Response = 6321739 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #56: Endrin #2



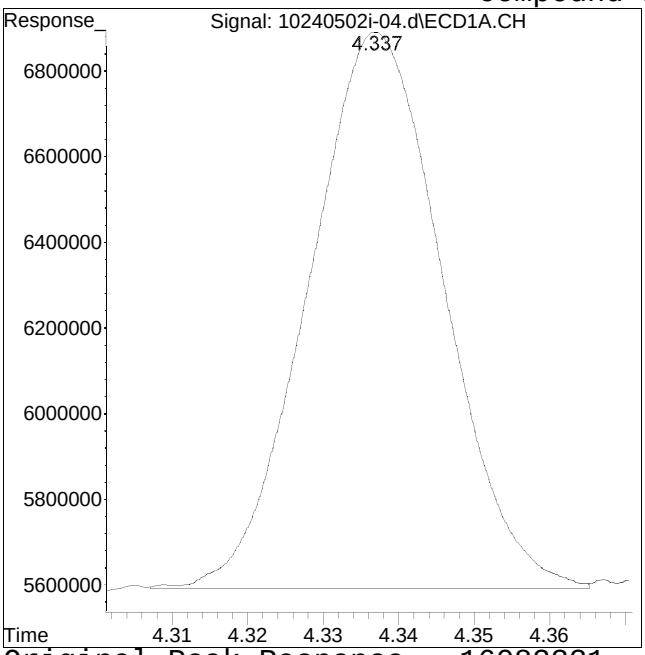


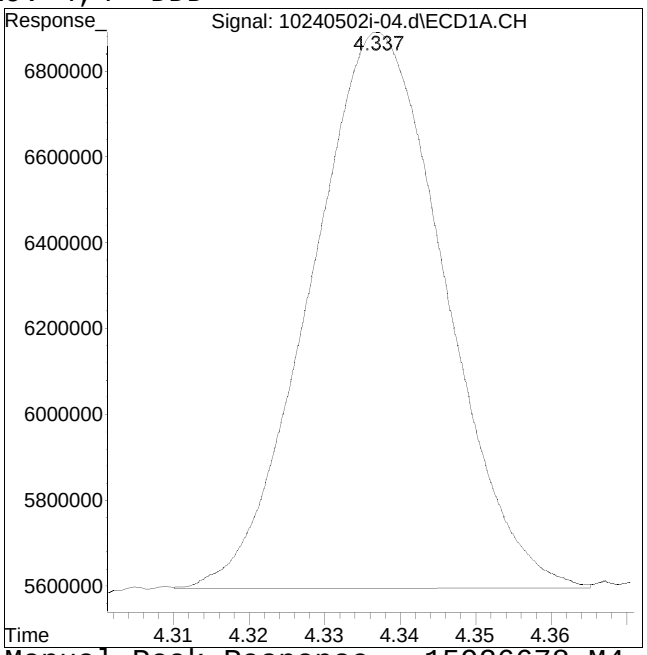
Original Peak Response = 6362268 Manual Peak Response = 6389309 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #19: 4,4'-DDD



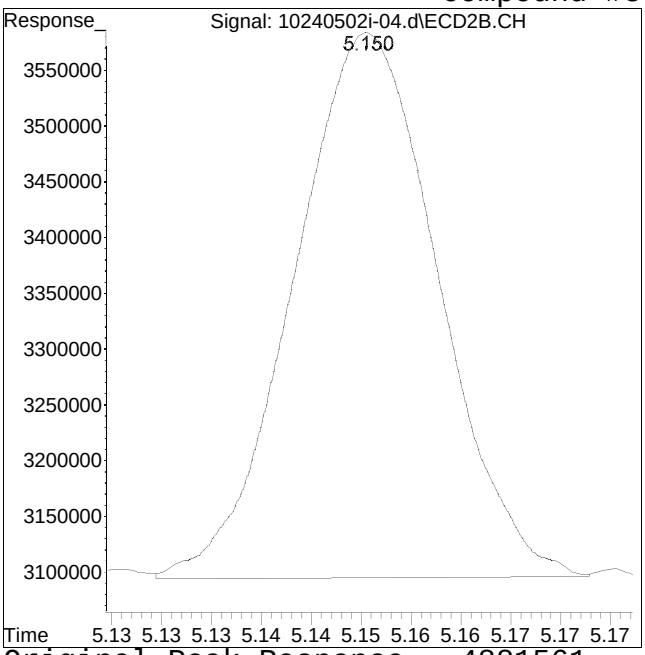


Original Peak Response = 16083331 Manual Peak Response = 15926678 M4
M4 = Poor automated baseline construction.

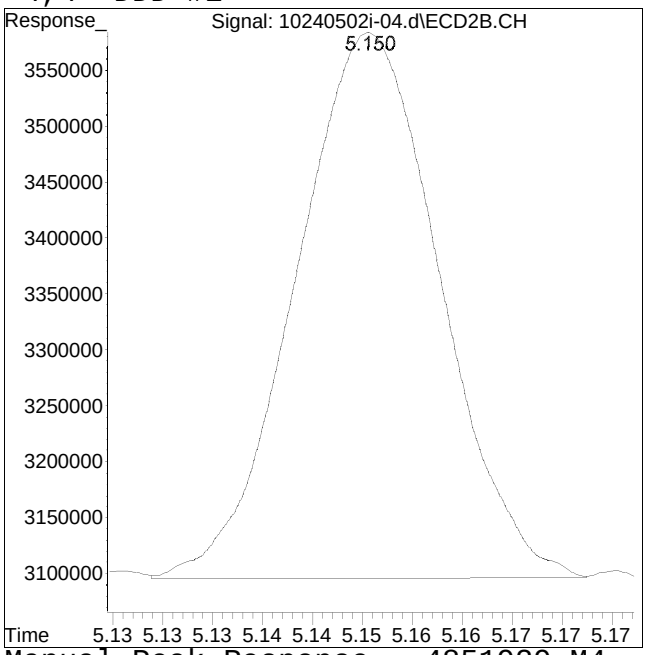
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 4881561



Manual Peak Response = 4851929 M4

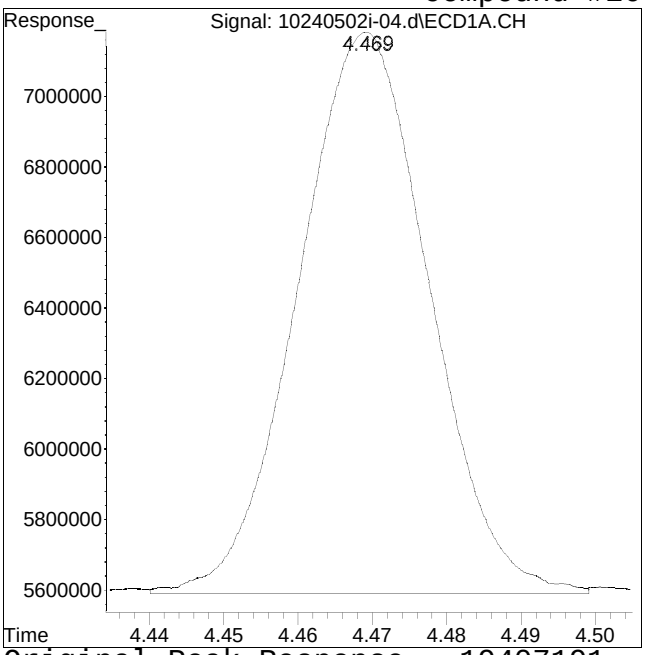
M4 = Poor automated baseline construction.

Manual Integration Report

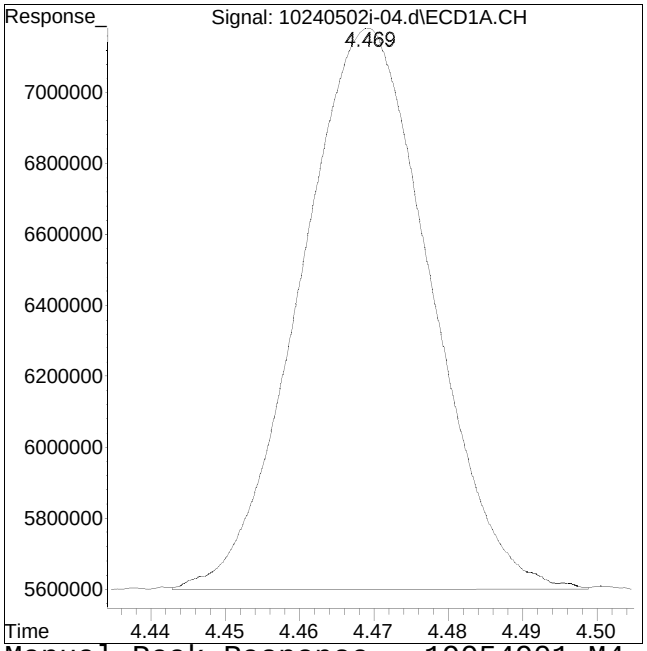
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #20: Endosulfan II



Original Peak Response = 19407191



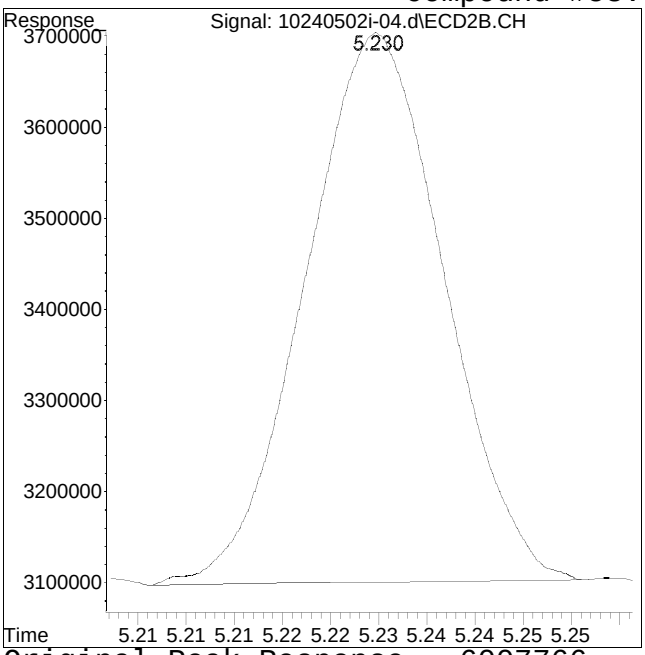
Manual Peak Response = 19054901 M4

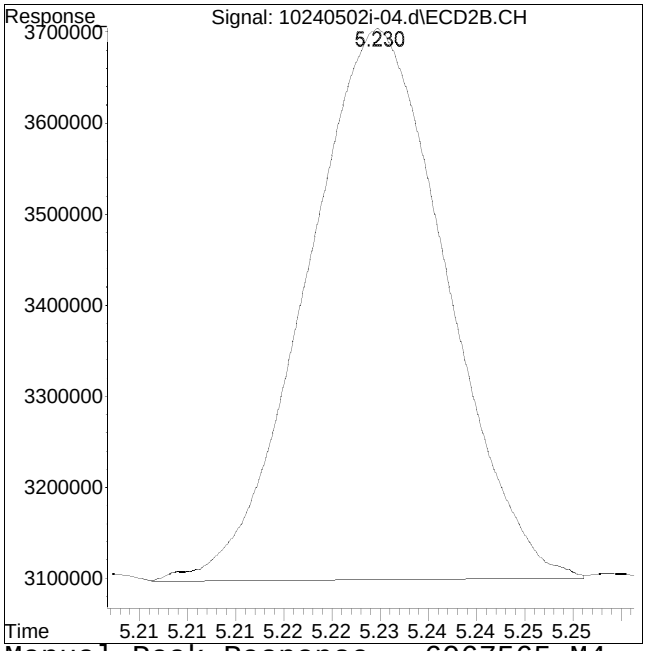
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #58: Endosulfan II #2



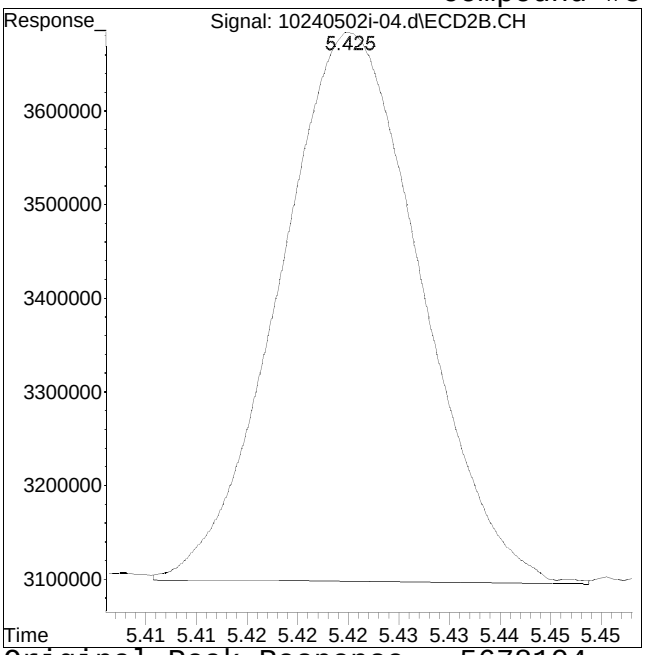


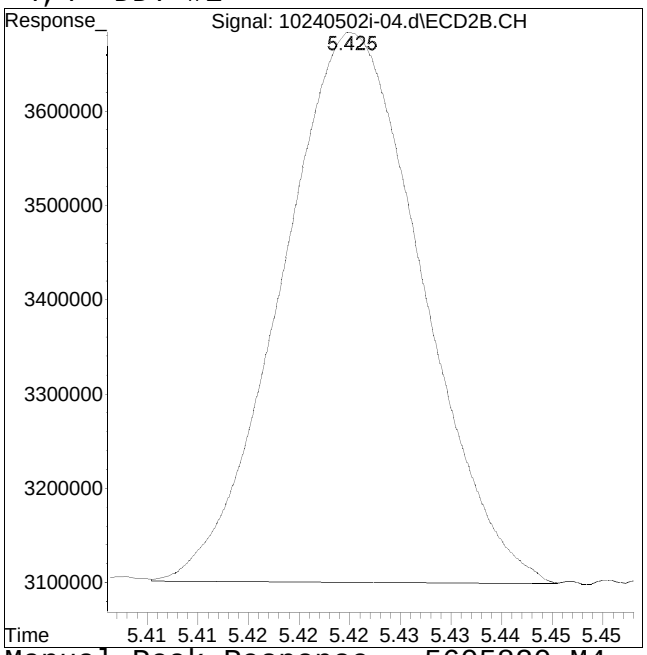
Original Peak Response = 6007766 Manual Peak Response = 6067565 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #59: 4,4'-DDT #2



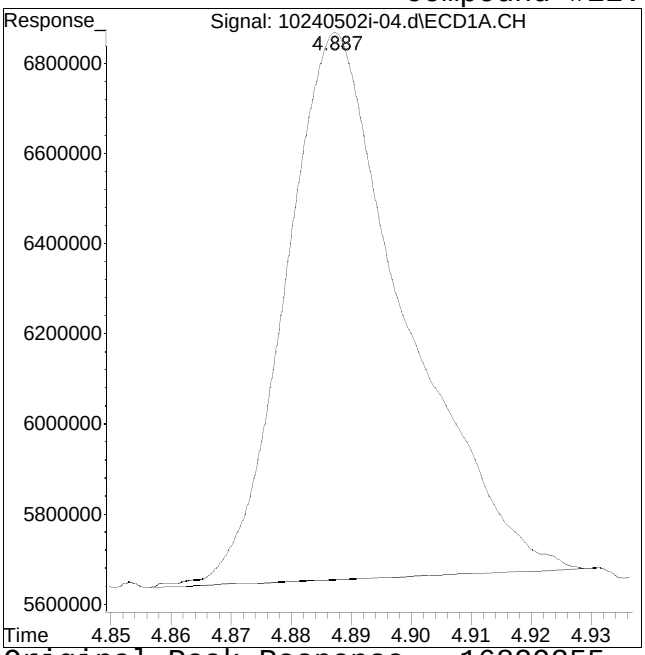


Original Peak Response = 5678104 Manual Peak Response = 5605820 M4
M4 = Poor automated baseline construction.

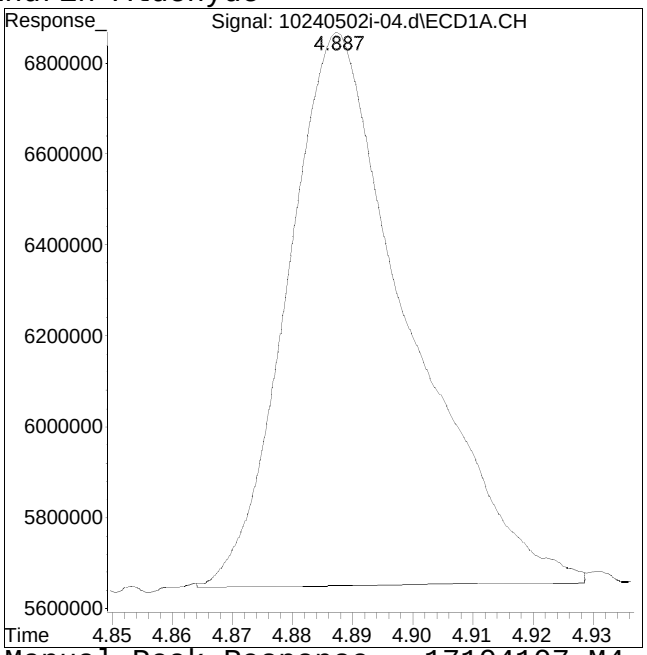
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 16829255



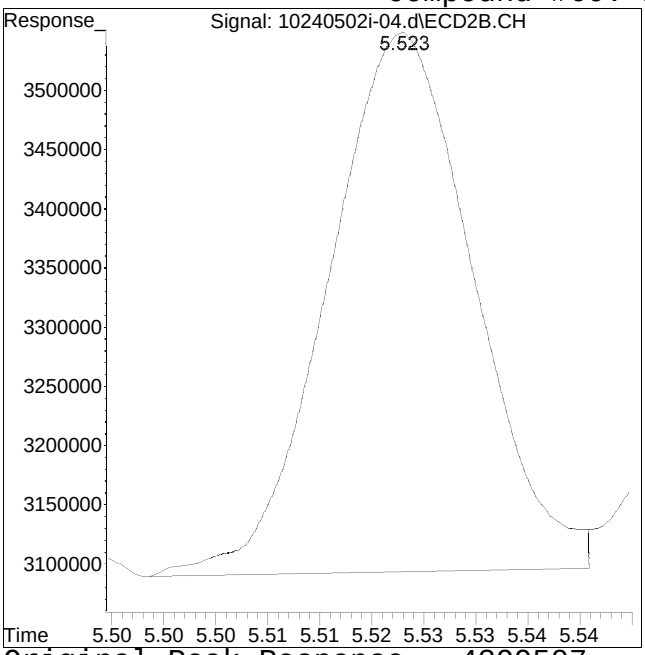
Manual Peak Response = 17104107 M4

M4 = Poor automated baseline construction.

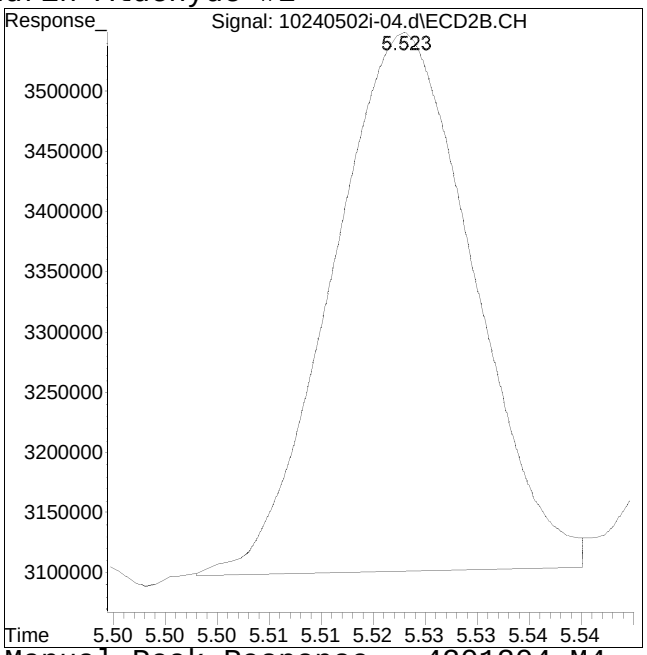
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 4399507



Manual Peak Response = 4201204 M4

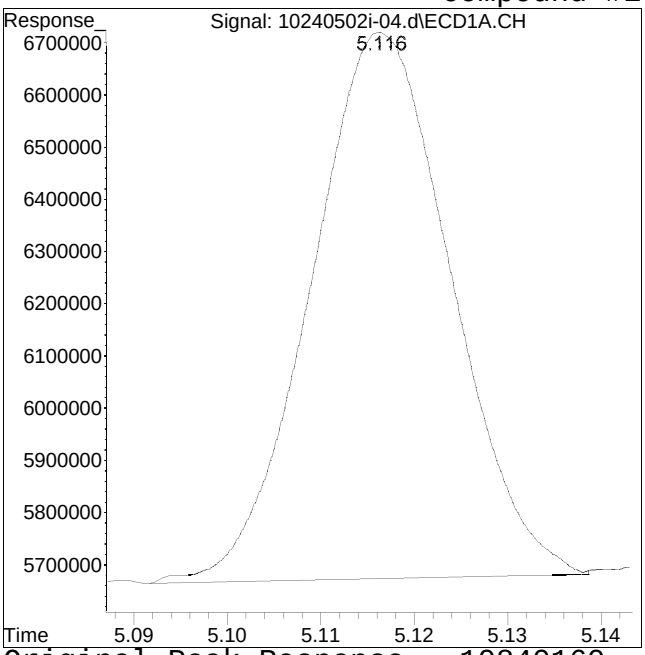
M4 = Poor automated baseline construction.

Manual Integration Report

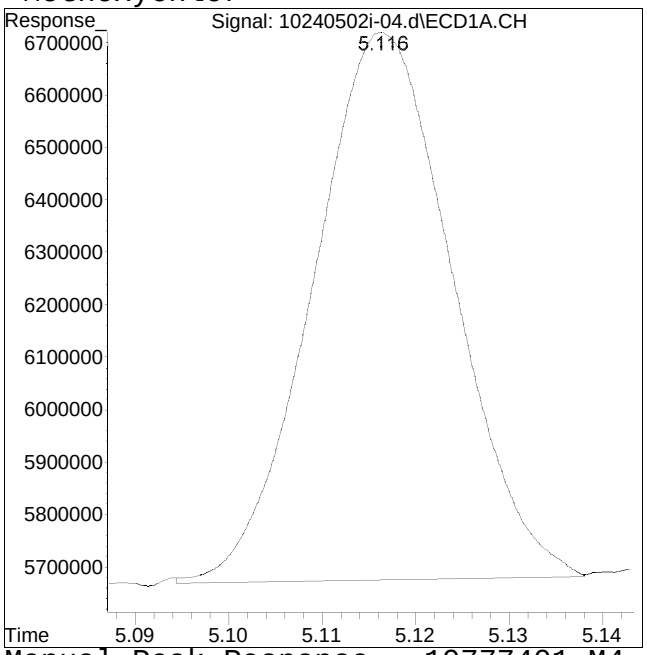
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #23: Methoxychlor



Original Peak Response = 10840160



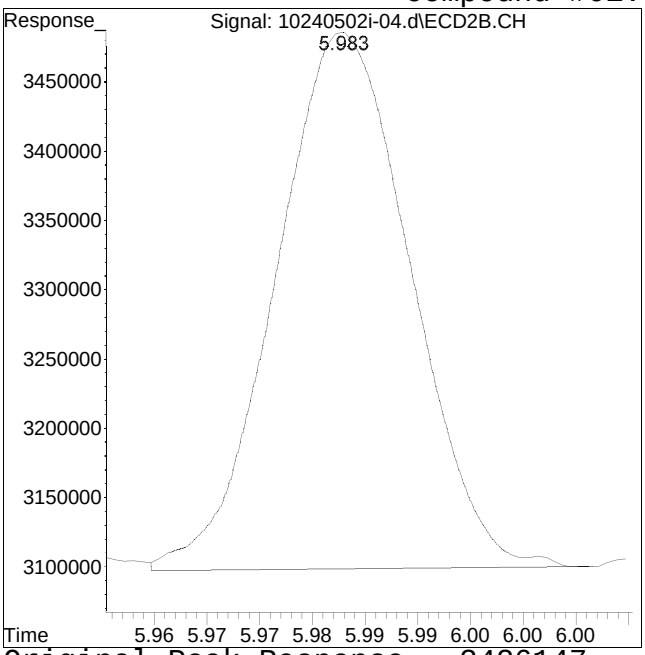
Manual Peak Response = 10777401 M4

M4 = Poor automated baseline construction.

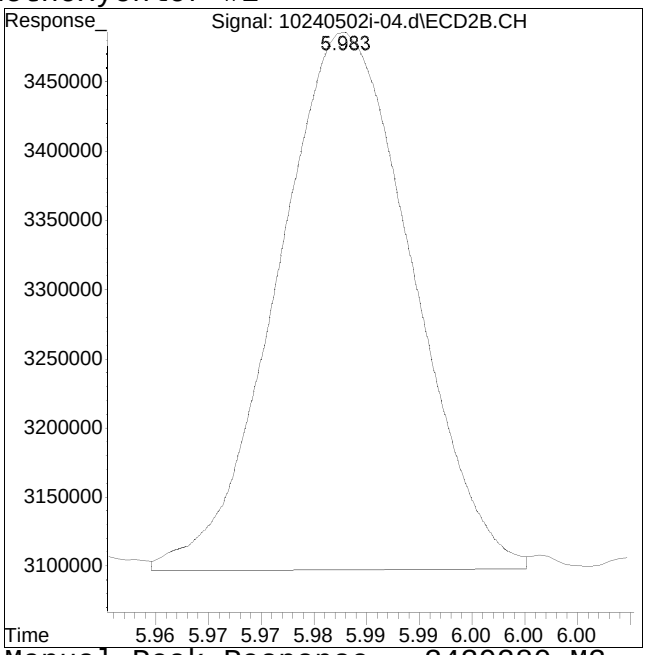
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #61: Methoxychlor #2



Original Peak Response = 3426147



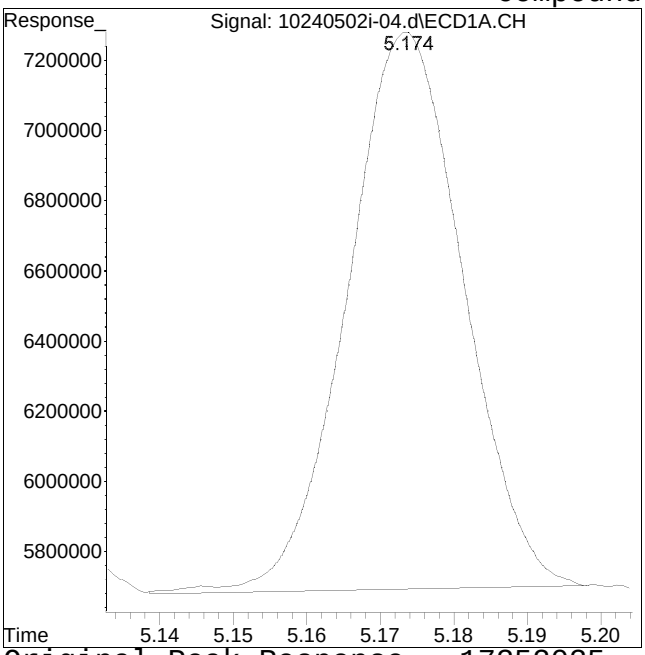
Manual Peak Response = 3439280 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

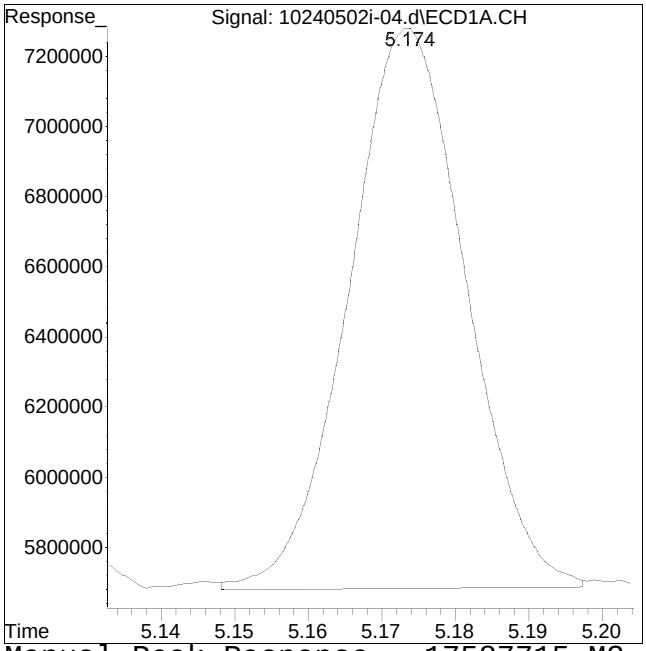
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #24: Mirex



Original Peak Response = 17352035



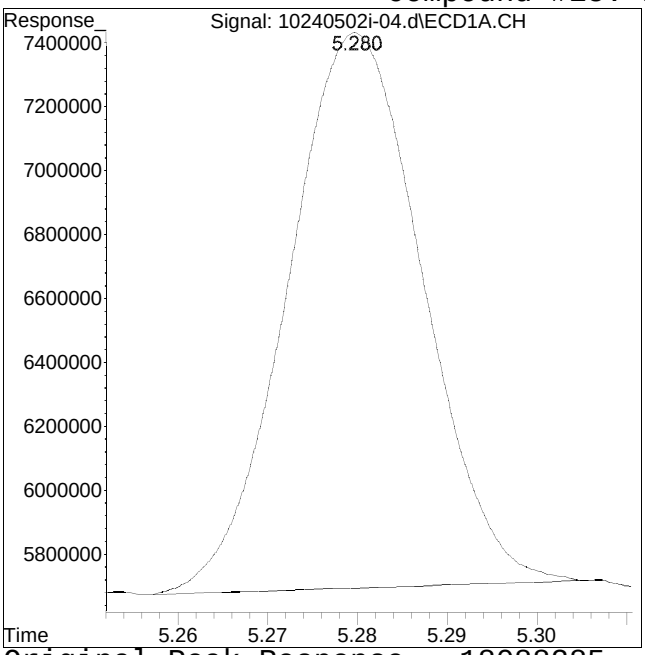
Manual Peak Response = 17587715 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

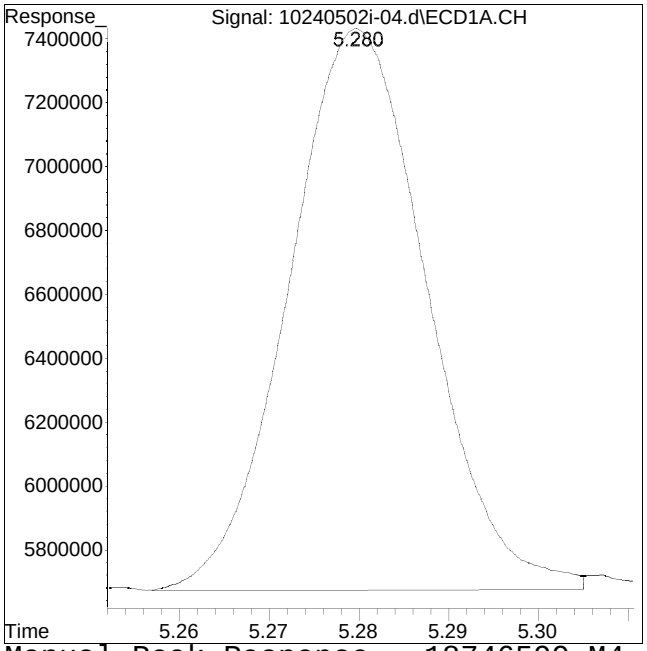
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 18088285



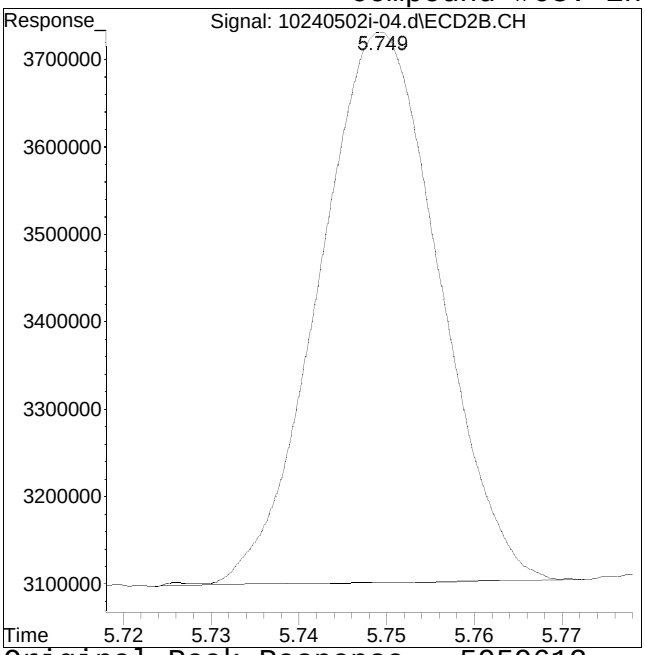
Manual Peak Response = 18746599 M4

M4 = Poor automated baseline construction.

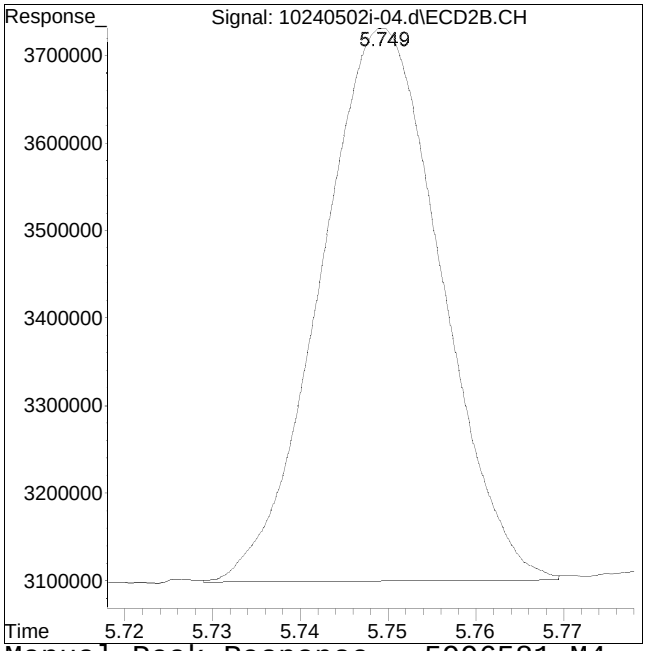
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 5959612



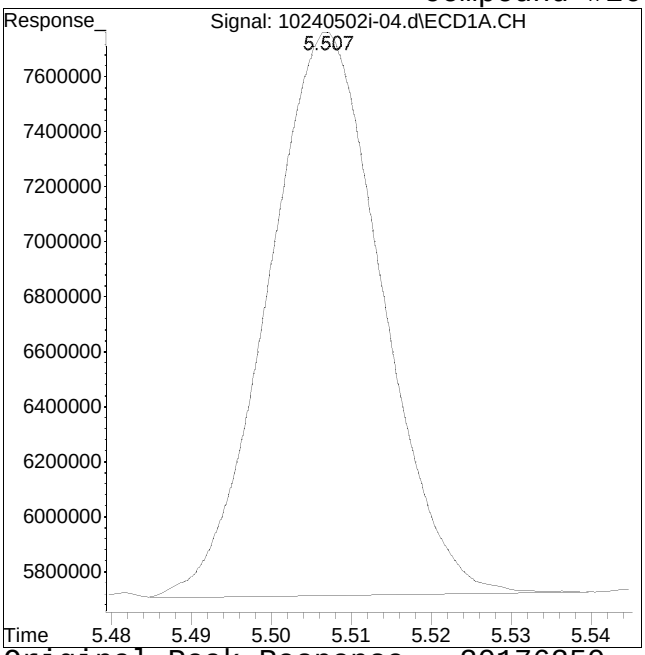
Manual Peak Response = 5996581 M4

M4 = Poor automated baseline construction.

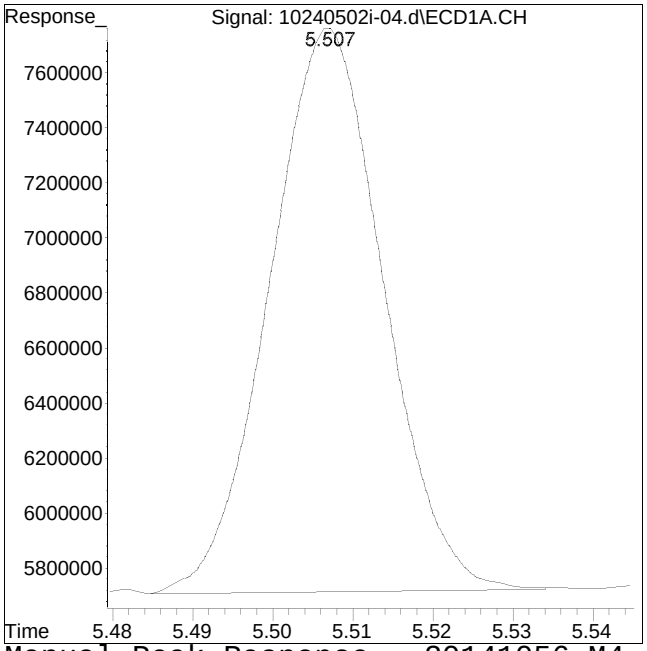
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #26: Endrin Ketone



Original Peak Response = 20176250

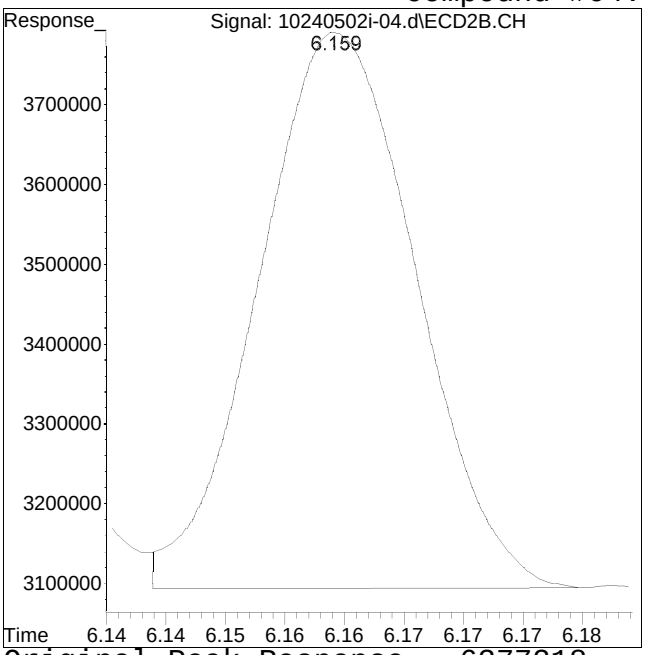


Manual Peak Response = 20141056 M4
M4 = Poor automated baseline construction.

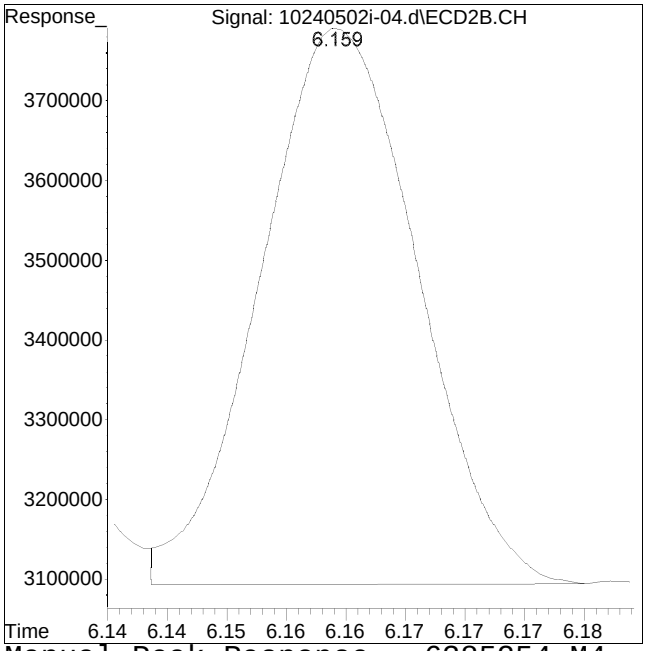
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 6377218



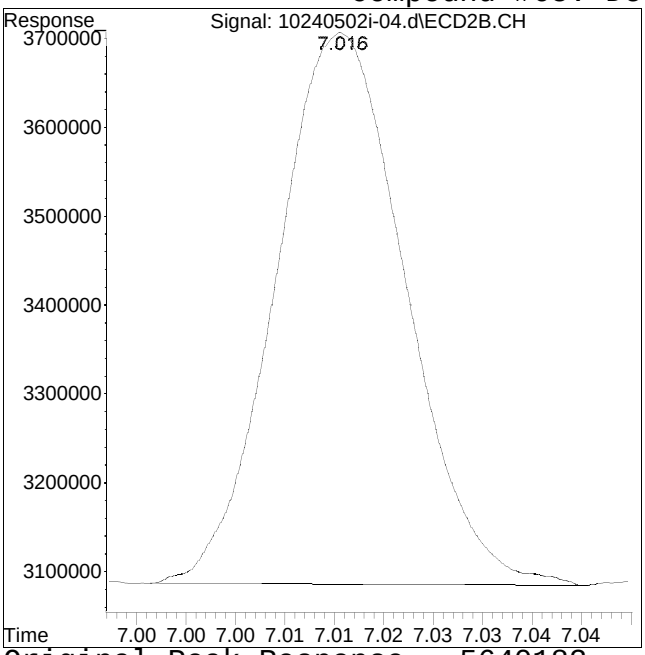
Manual Peak Response = 6385254 M4

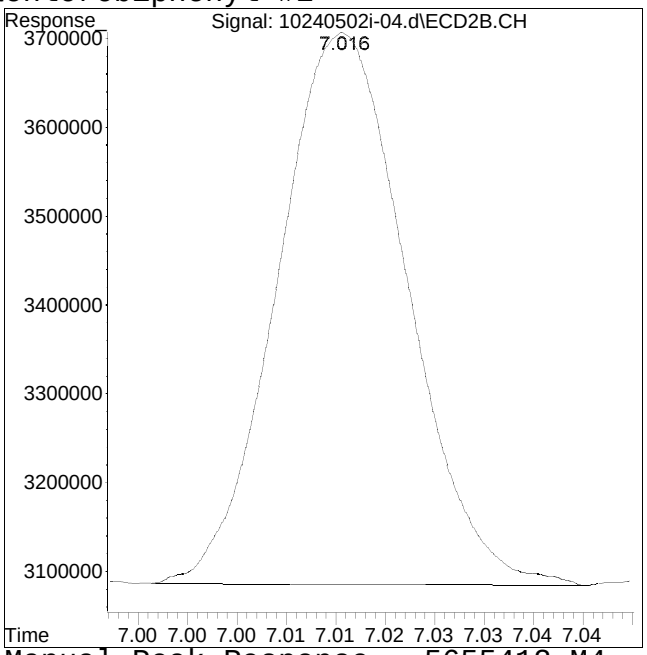
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 5640183 Manual Peak Response = 5655412 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	381.1E6	139.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	35711139	10850732	2.158M3	2.073M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.32%#	4.15%#
27) s	Decachlorobi	6.305	7.013	32365645	10652604	2.284M4	2.301M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.57%#	4.60%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.250	38695981	12968247	2.189	2.156M4
4) t	alpha-BHC	1.976	2.350	45029539	13912745	1.956M3	1.867M4
5) t	gamma-BHC (l	2.179	2.644	43040041	13436848	1.972M4	1.920M4
6) t	beta-BHC	2.235	2.709	21411066	7288326	2.211M4	2.201M4
7) t	delta-BHC	2.364	2.983	42612240	13354035	1.979M4	1.900M4
8) t	Heptachlor	2.527	3.052	43745284	14311491	2.111	2.059M4
9) t	Aldrin	2.770	3.380	40691291	12600703	2.082M3	1.990M3
10) t D	Alachlor	2.892	3.257	6800977	2670710	0.400M4	2.512M4
11) t D	Chlorpyrifos	2.983	3.620	23084438	8291777	0.662M4	2.486M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.317	4.010	40433911	13339578	2.172M4	2.108M4
13)	t	gamma-Chlord	3.440	4.233	36094628	11730545	2.119	2.084
14)	t	alpha-Chlord	3.575	4.397	41440172	13178293	2.142M4	2.081M3
15)	t	4,4'-DDE	3.671	4.587	37835033	11469849	2.065M4	1.959M4
16)	t	Endosulfan I	3.712	4.457	38657227	12412489	2.173M4	2.108M4
17)	t	Dieldrin	3.973	4.743	38341956	11858093	2.096M4	2.012M4
18)	t	Endrin	4.228	5.035	39721518	12307147	2.114M4	2.035M4
19)	t	4,4'-DDD	4.336	5.150	30999704	9213514	2.081M4	1.956M4
20)	t	Endosulfan I	4.468	5.229	36151186	11517617	2.229M4	2.175M4
21)	t	4,4'-DDT	4.629	5.425	34223648	10690472	2.076	2.001M4
22)	t	Endrin Aldeh	4.886	5.523	27548287	8745833	2.121M3	2.105M4
23)	t	Methoxychlor D	5.115	5.983	20910420	6628788	1.421M4	2.256M4
24)	t	Mirex	5.173	6.127	33273767	11244335	1.618M4	2.413M4
25)	t	Endosulfan S	5.279	5.749	35176451	11355175	2.187M4	2.151M4
26)	t	Endrin Keton	5.506	6.159	38253579	12144030	2.168M4	2.111M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34)	l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

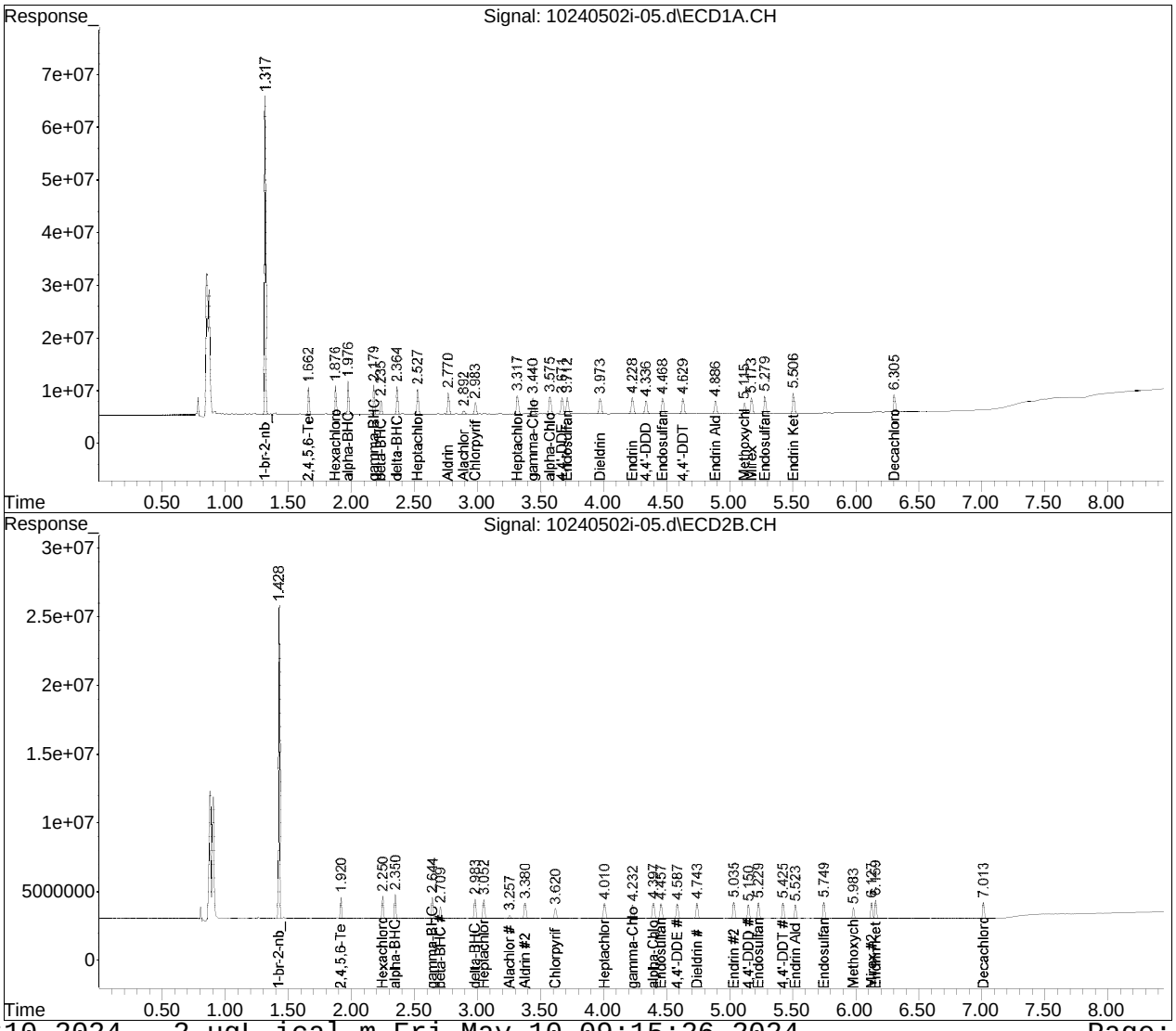
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

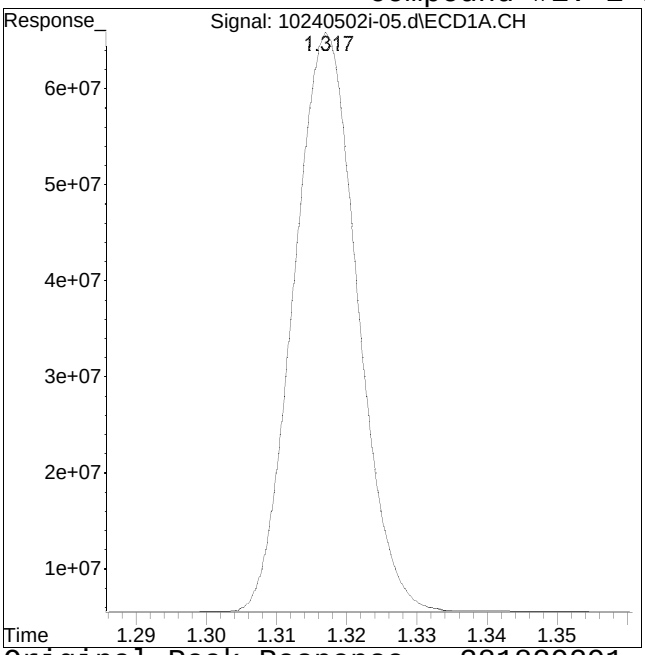
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



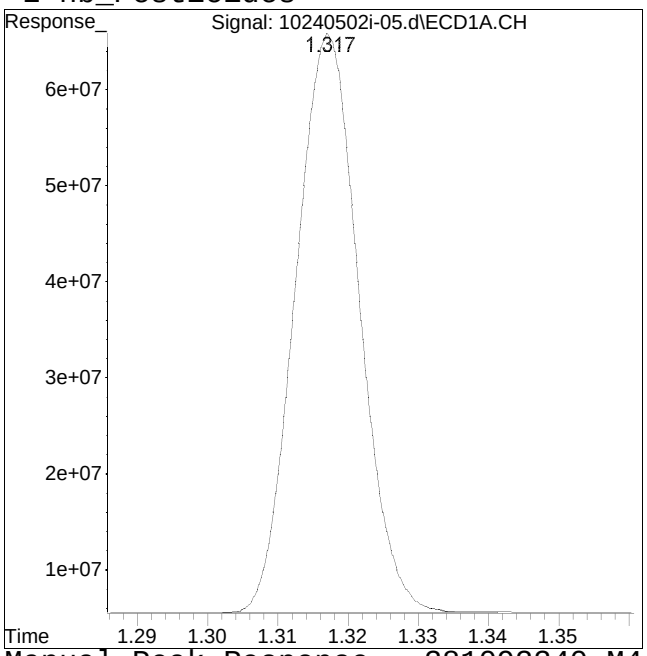
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 381829291



Manual Peak Response = 381093340 M4

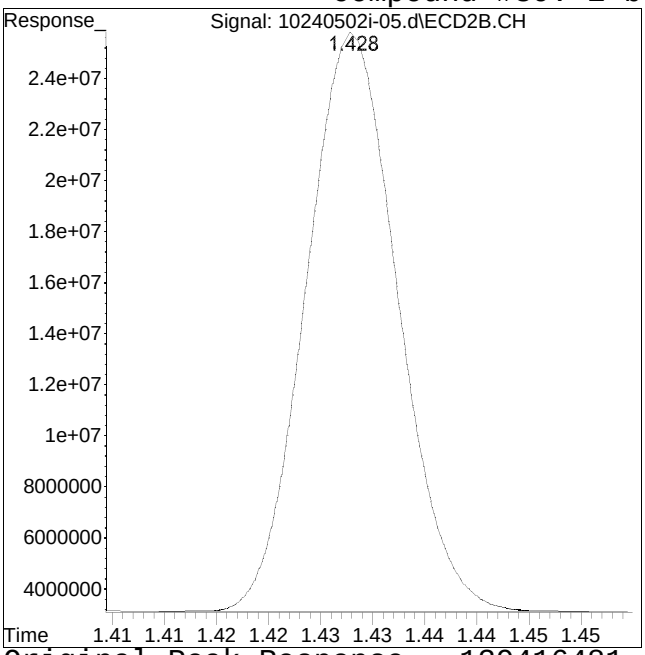
M4 = Poor automated baseline construction.

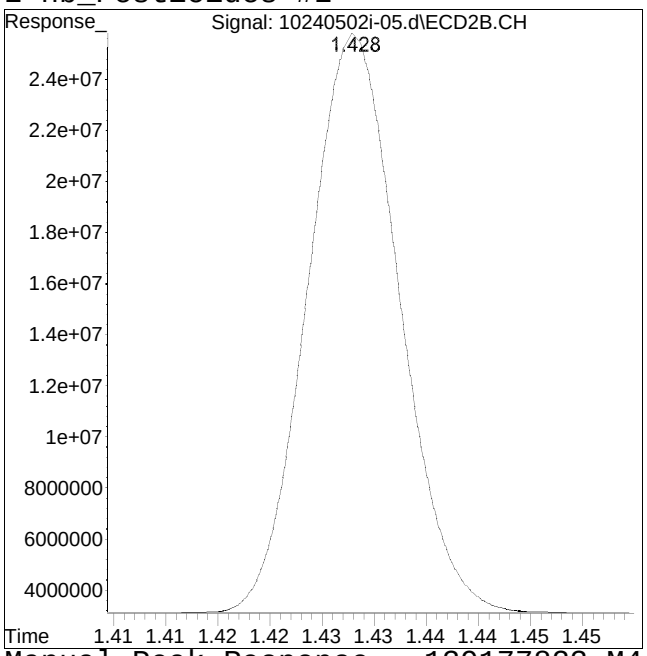
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #39: 1-br-2-nb_Pesticides #2



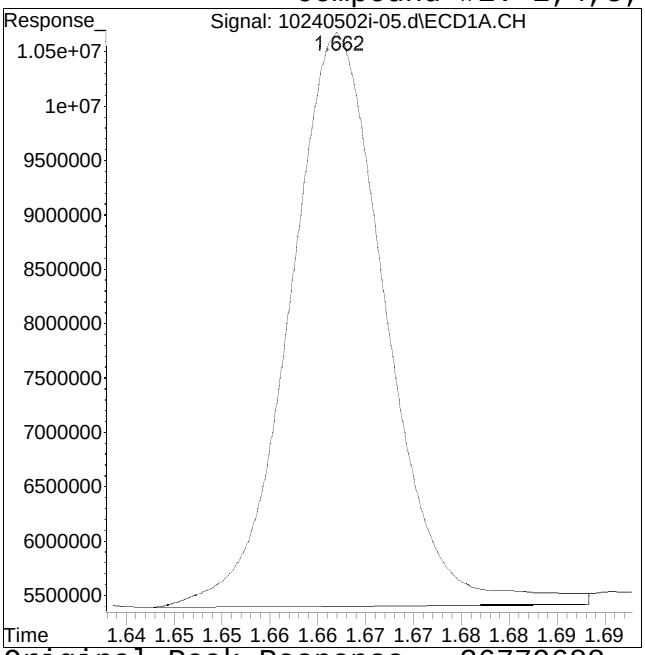


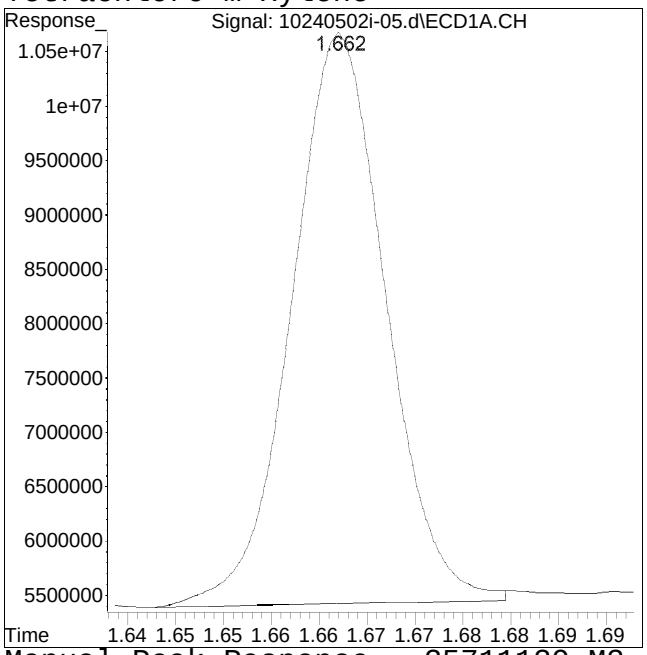
Original Peak Response = 139416481 Manual Peak Response = 139177823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



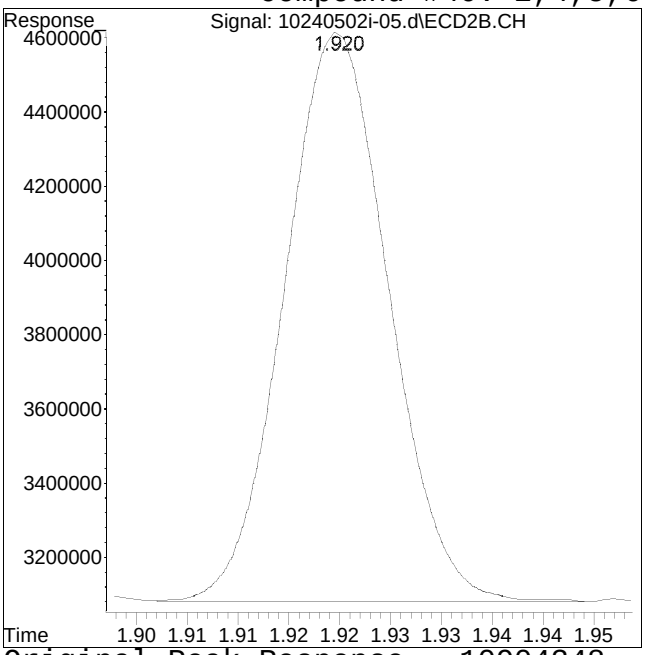


Original Peak Response = 36779688 Manual Peak Response = 35711139 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

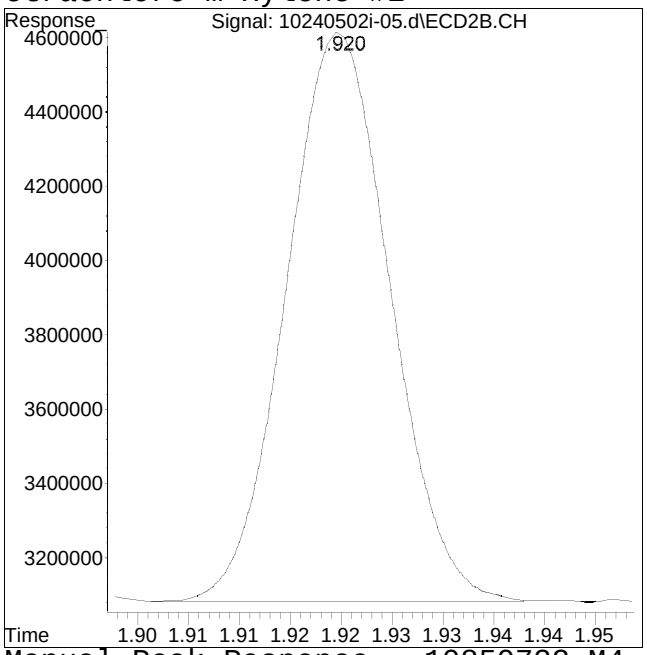
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 10904348



Manual Peak Response = 10850732 M4

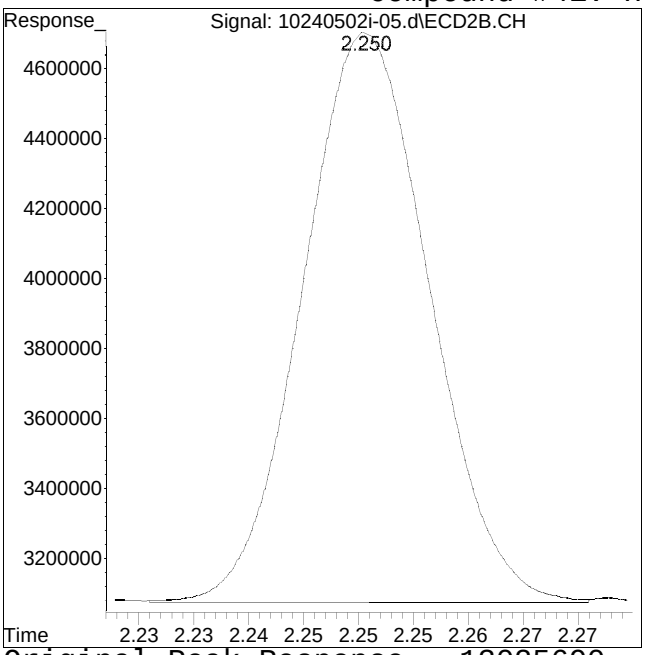
M4 = Poor automated baseline construction.

Manual Integration Report

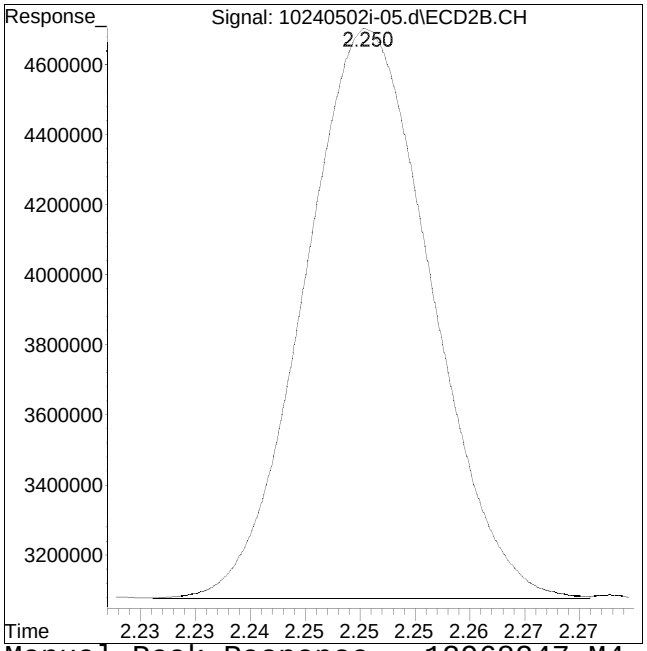
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 13025690



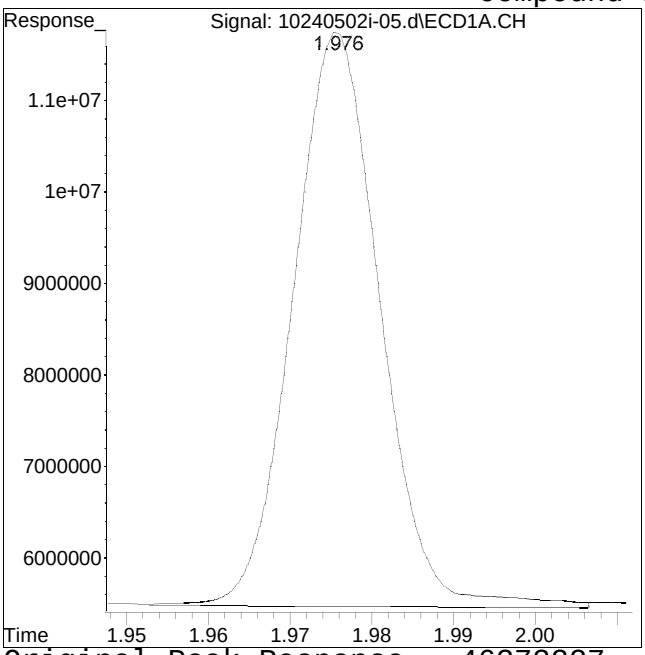
Manual Peak Response = 12968247 M4

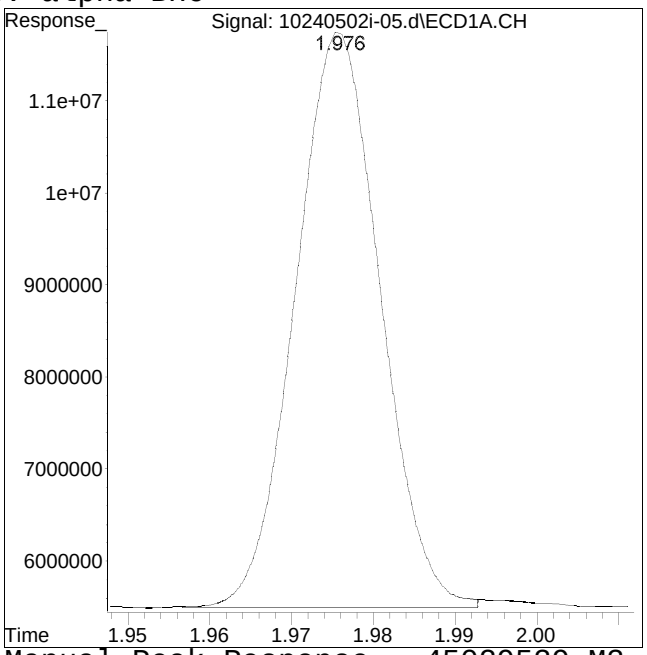
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #4: alpha-BHC



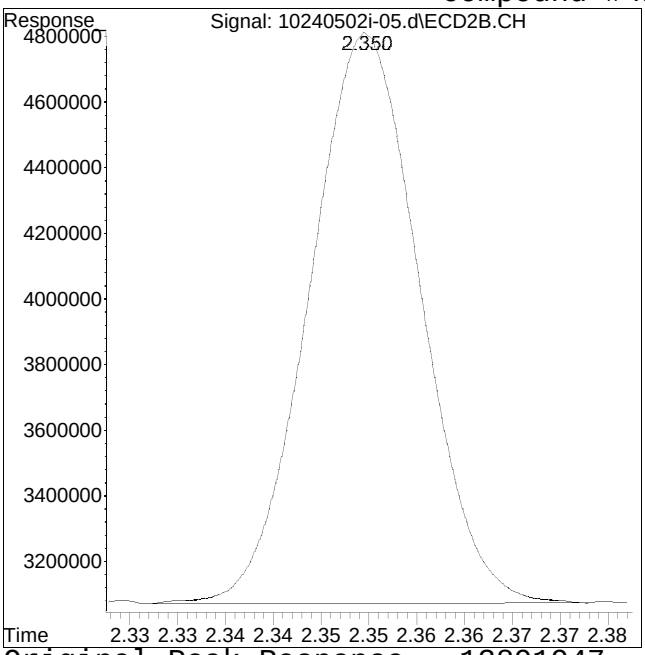


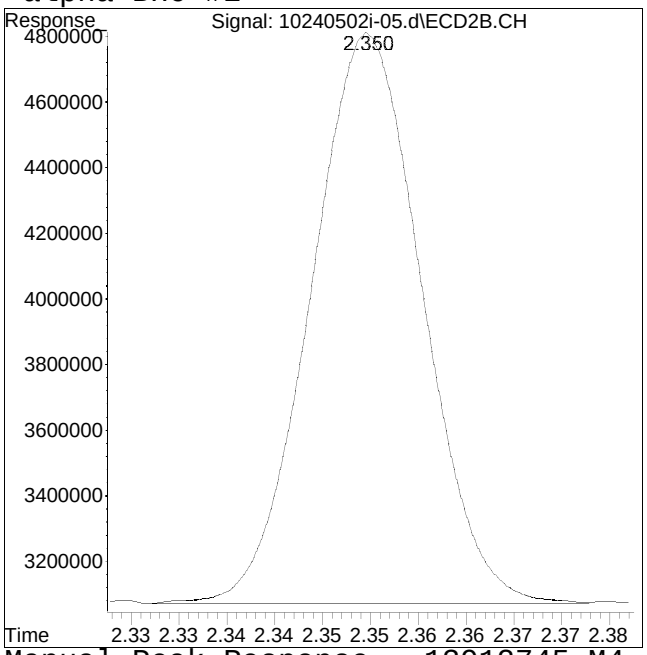
Original Peak Response = 46373227 Manual Peak Response = 45029539 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #42: alpha-BHC #2



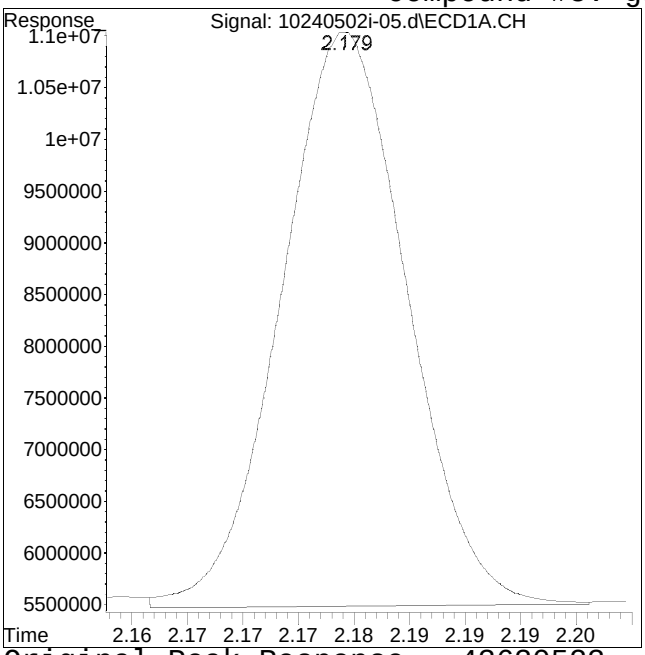


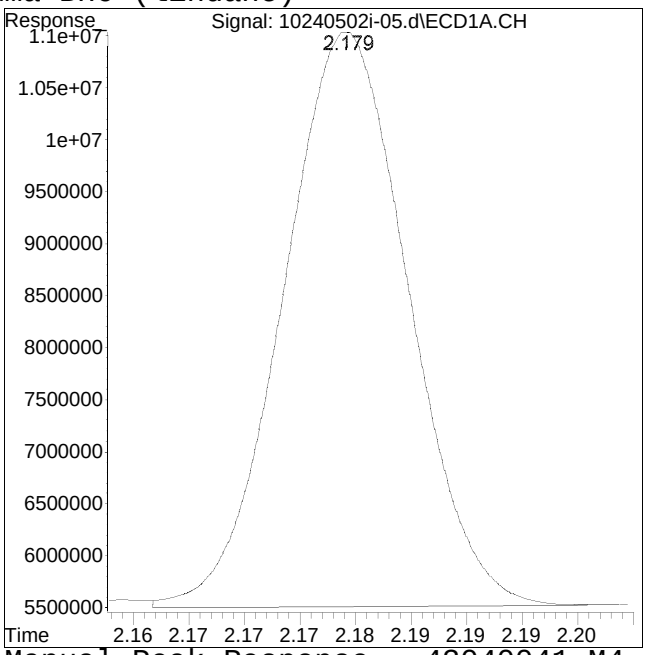
Original Peak Response = 13891947 Manual Peak Response = 13912745 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #5: gamma-BHC (lindane)





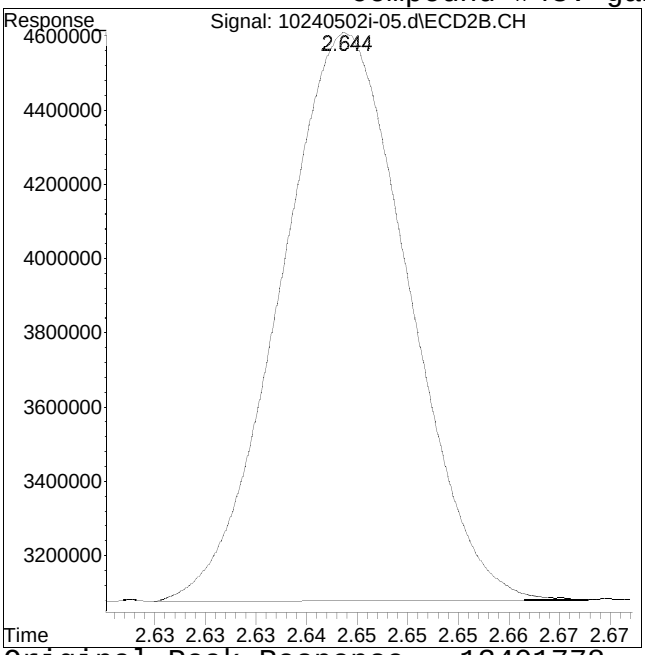
Original Peak Response = 43630523 Manual Peak Response = 43040041 M4
M4 = Poor automated baseline construction.

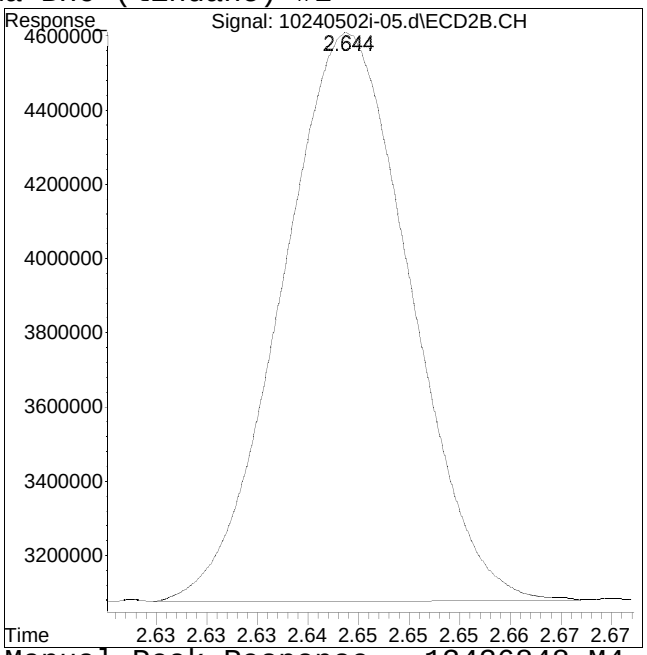
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #43: gamma-BHC (lindane) #2



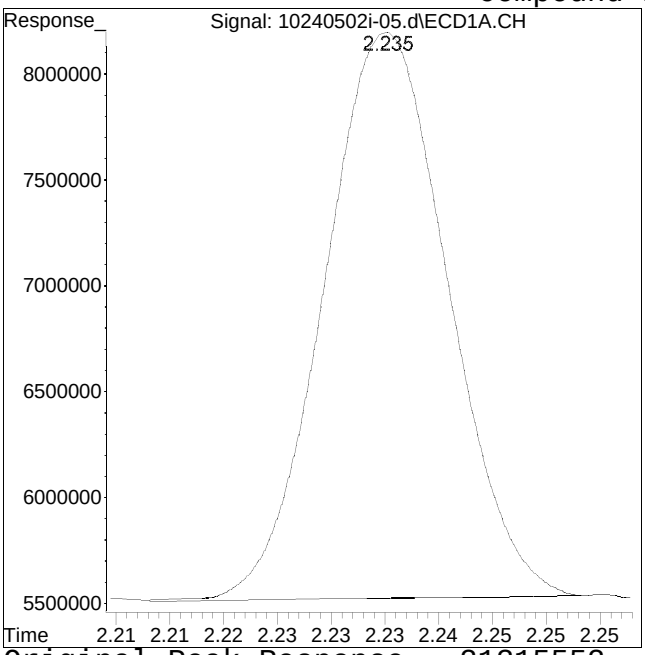


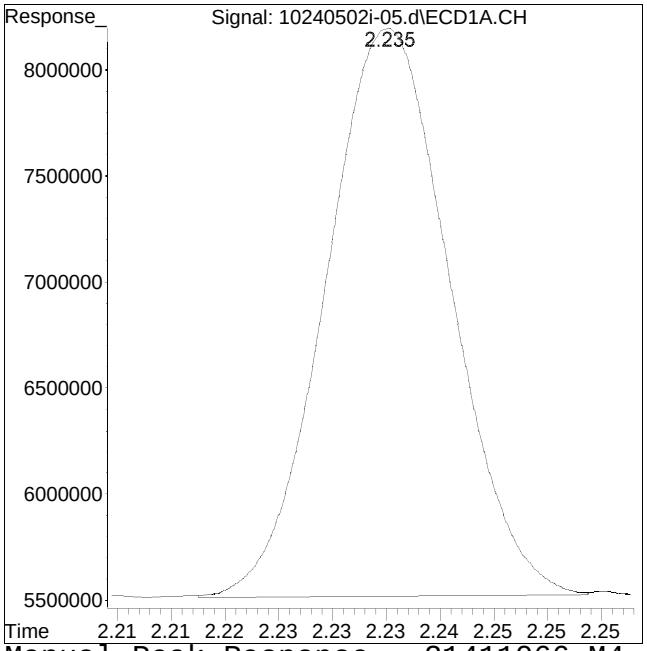
Original Peak Response = 13401778 Manual Peak Response = 13436848 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #6: beta-BHC



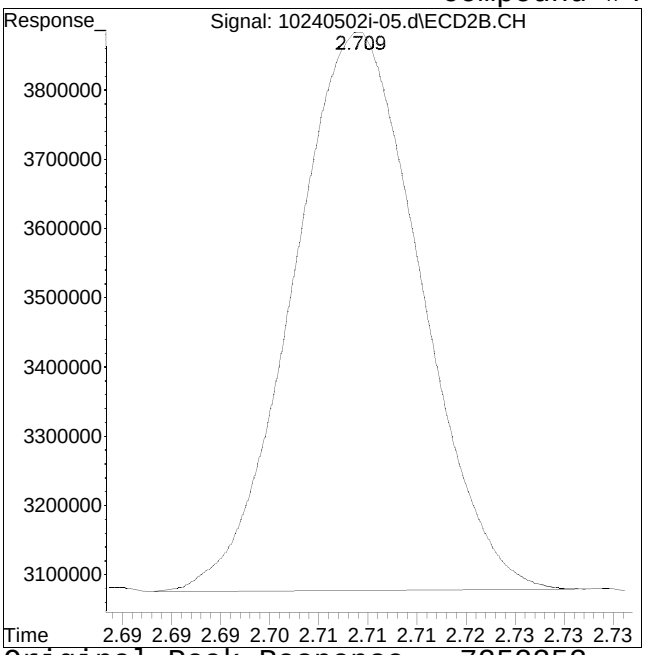


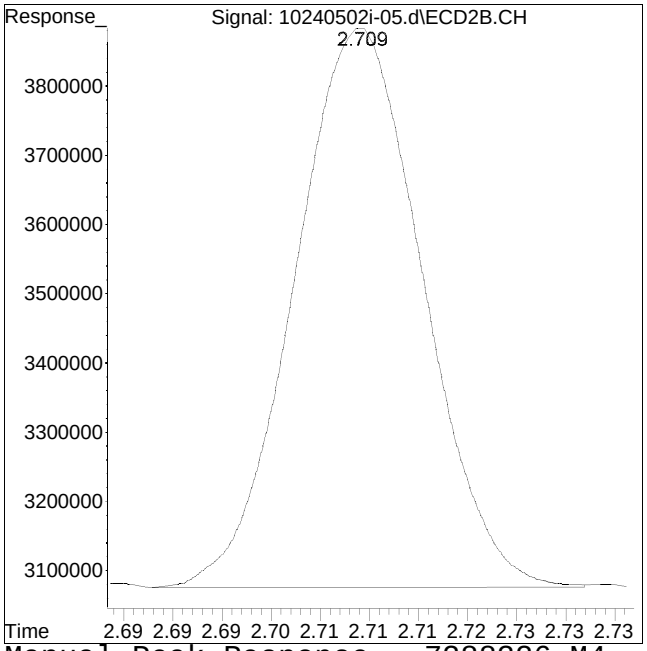
Original Peak Response = 21315552 Manual Peak Response = 21411066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #44: beta-BHC #2



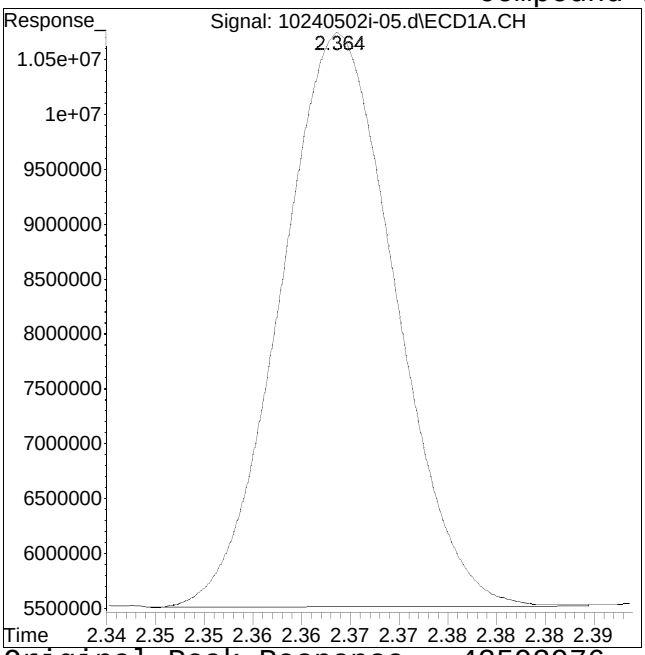


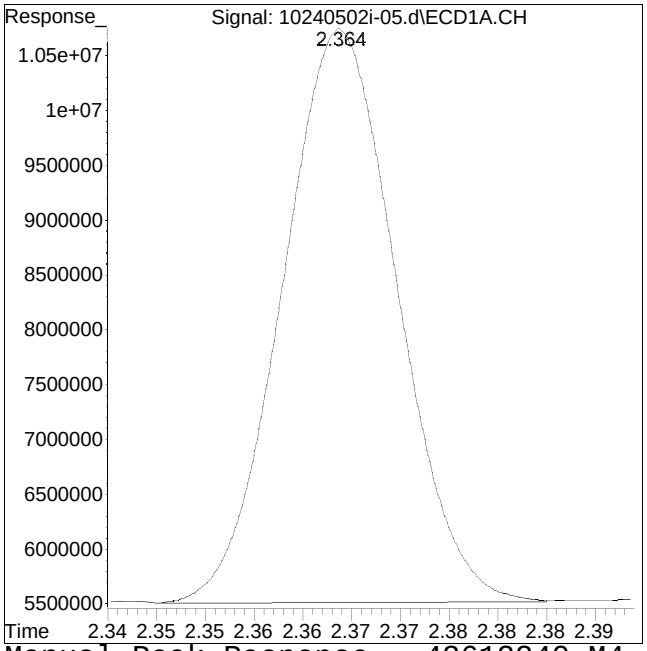
Original Peak Response = 7252353 Manual Peak Response = 7288326 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #7: delta-BHC



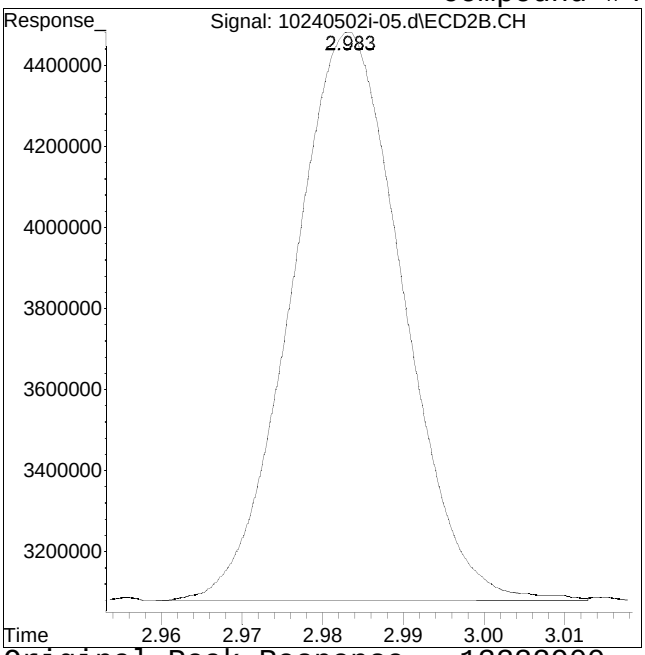


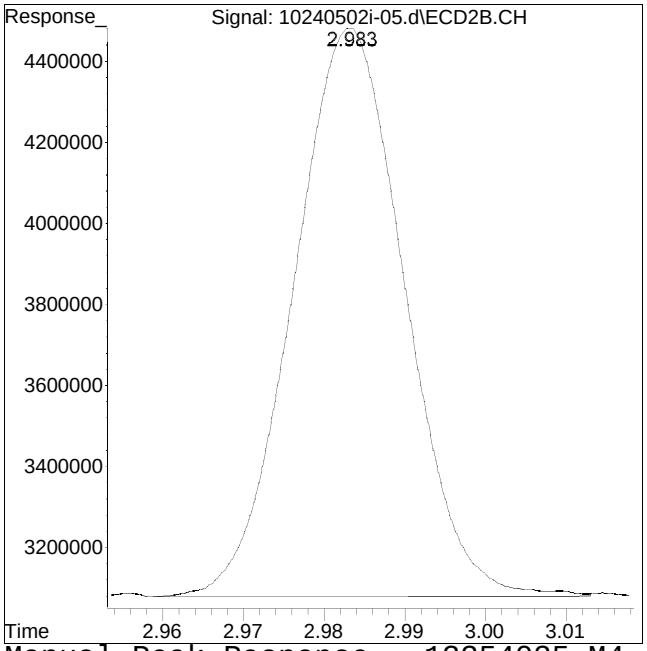
Original Peak Response = 42593976 Manual Peak Response = 42612240 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #45: delta-BHC #2



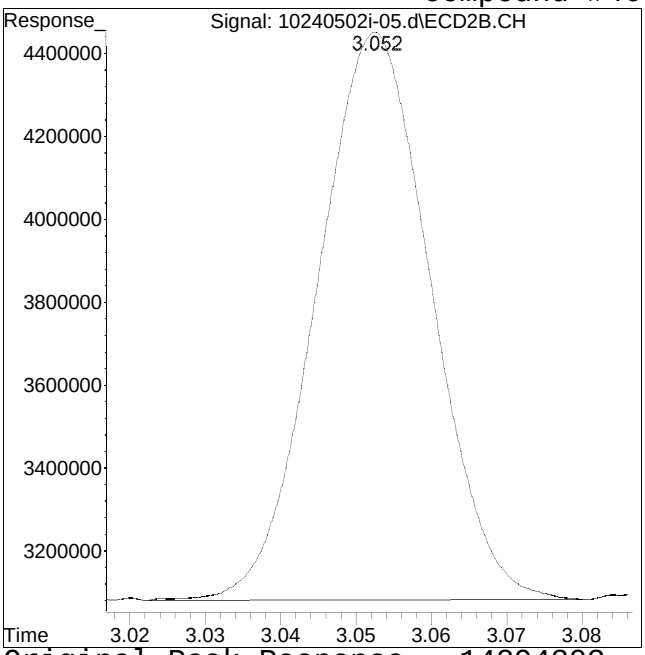


Original Peak Response = 13332900 Manual Peak Response = 13354035 M4
M4 = Poor automated baseline construction.

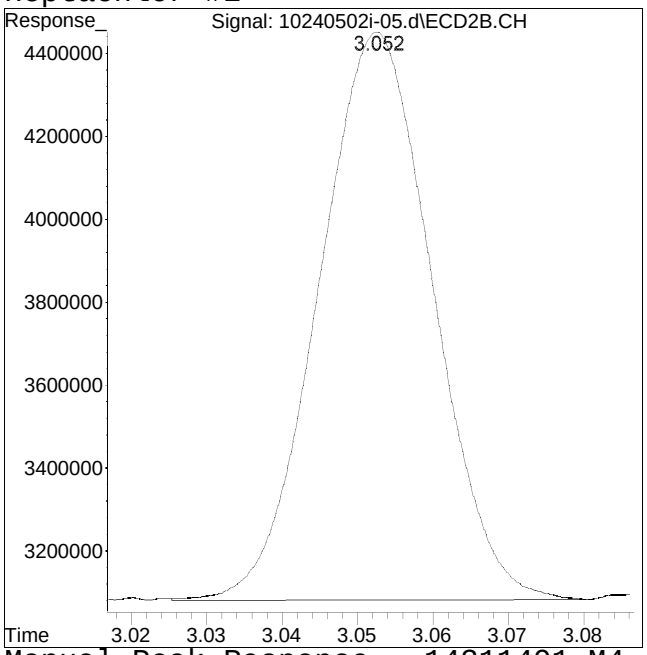
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #46: Heptachlor #2



Original Peak Response = 14294293



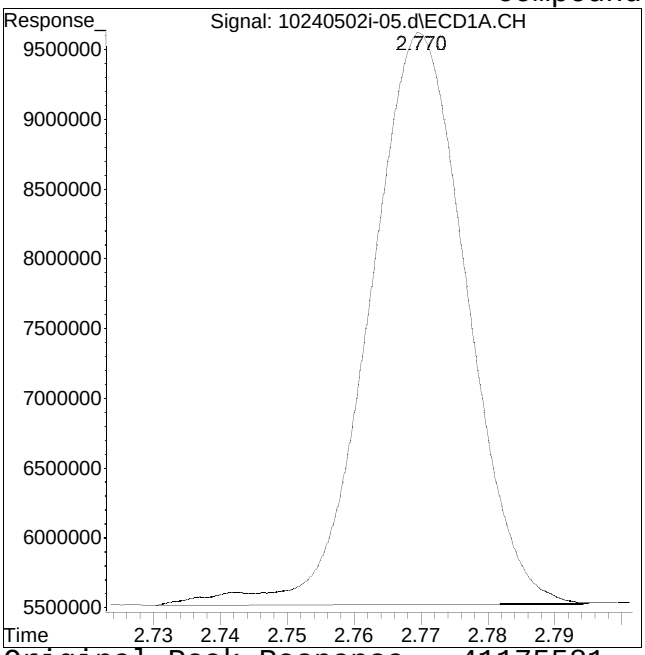
Manual Peak Response = 14311491 M4

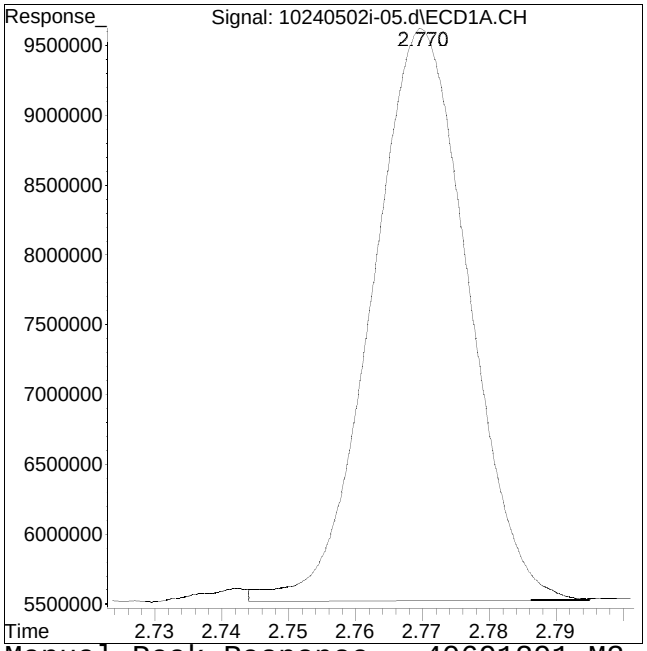
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #9: Aldrin



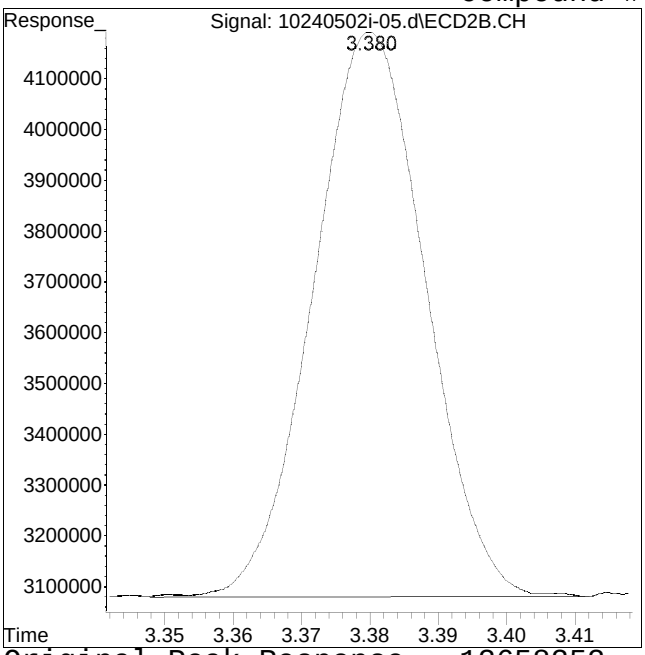


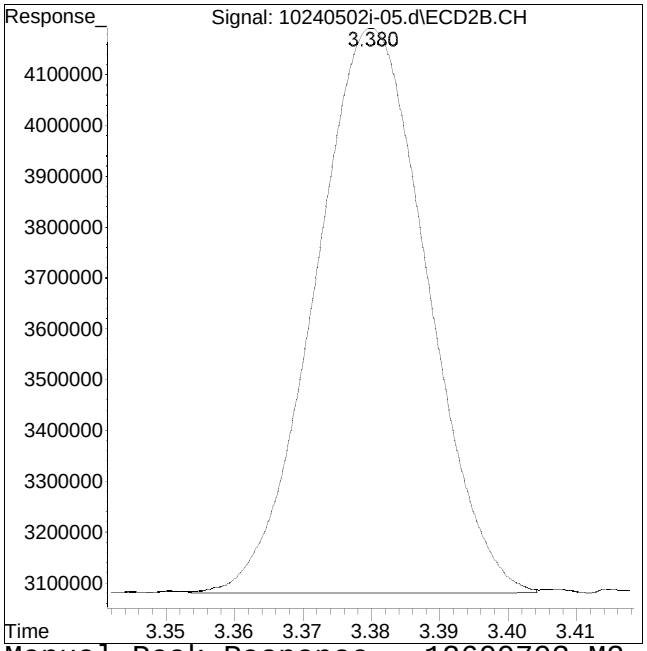
Original Peak Response = 41175581 Manual Peak Response = 40691291 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #47: Aldrin #2



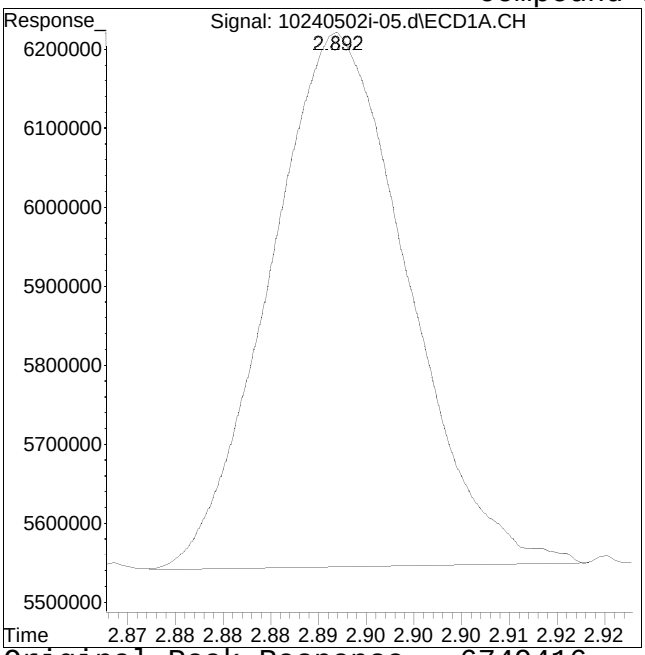


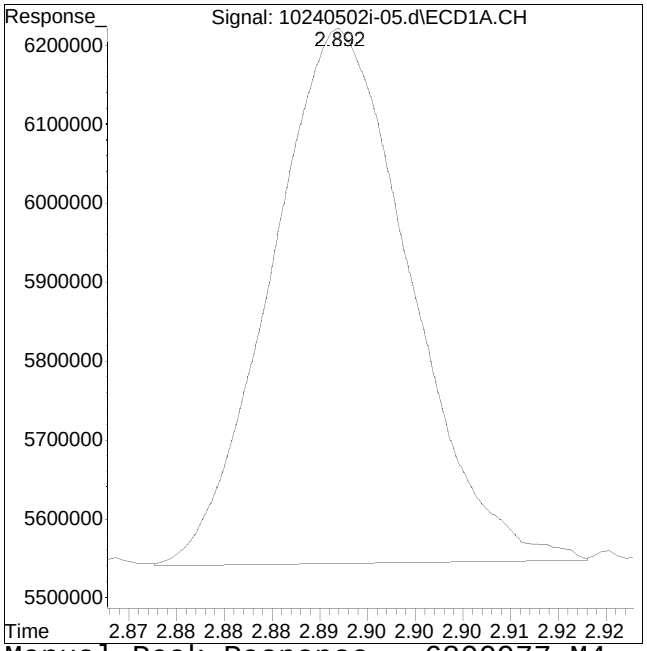
Original Peak Response = 12658252 Manual Peak Response = 12600703 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #10: Alachlor



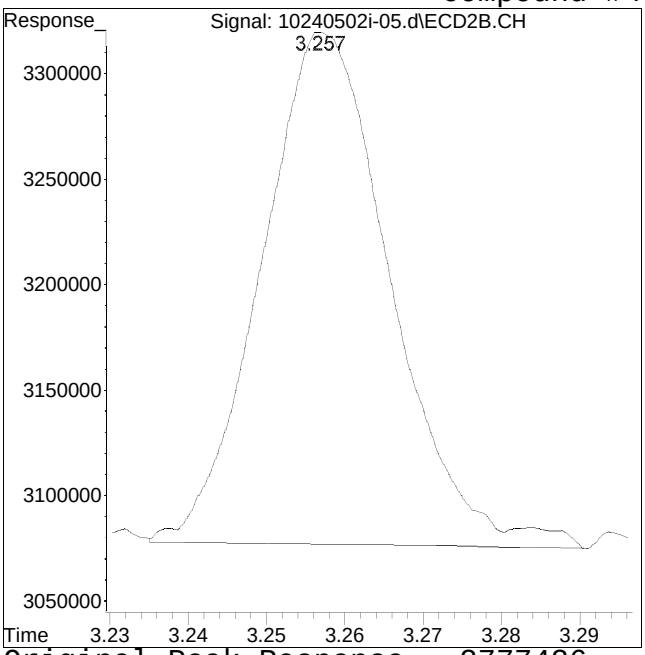


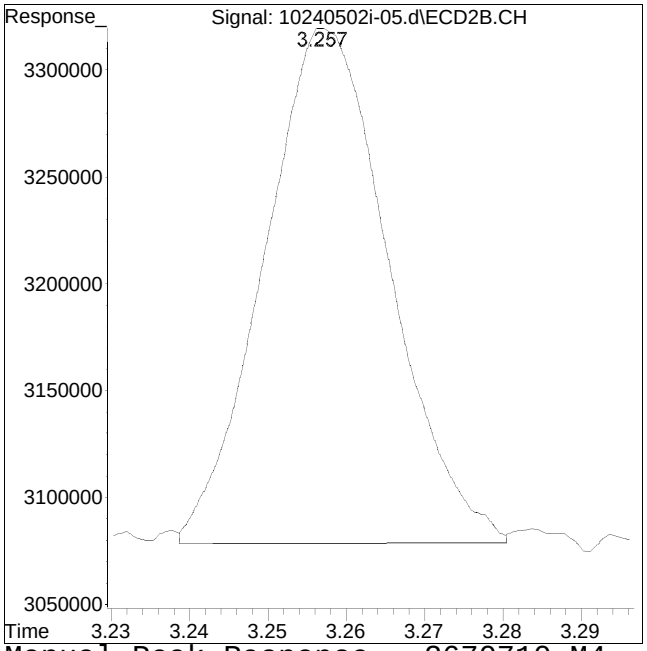
Original Peak Response = 6749416 Manual Peak Response = 6800977 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #48: Alachlor #2



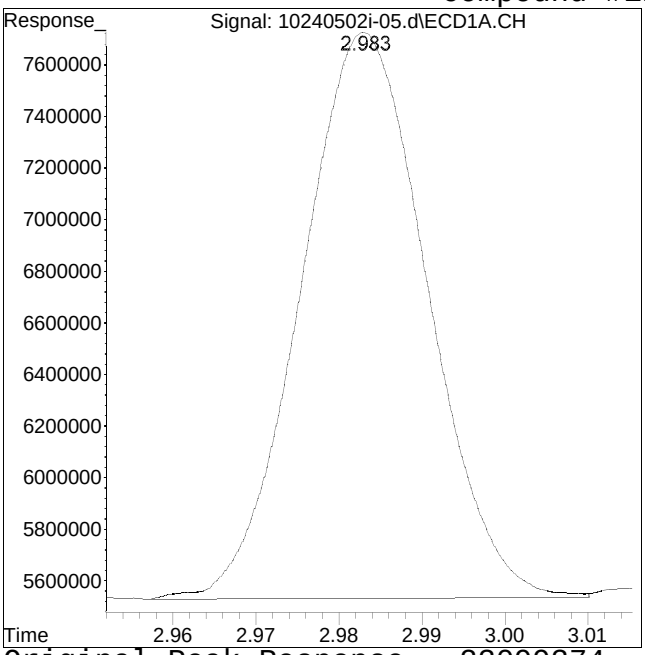


Original Peak Response = 2777426 Manual Peak Response = 2670710 M4
M4 = Poor automated baseline construction.

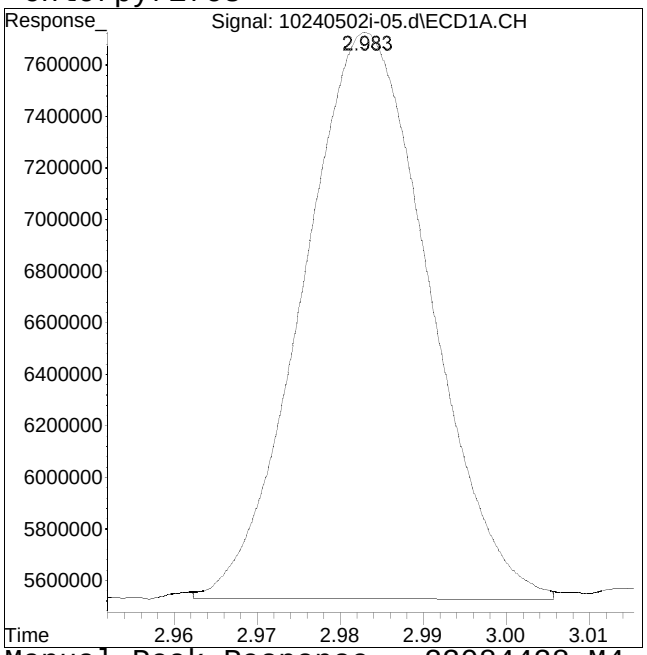
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #11: Chlorpyrifos



Original Peak Response = 23099374

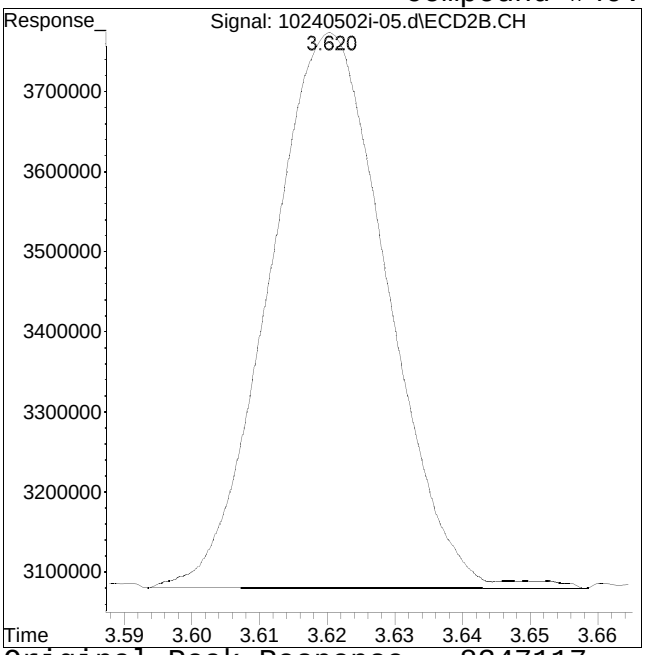


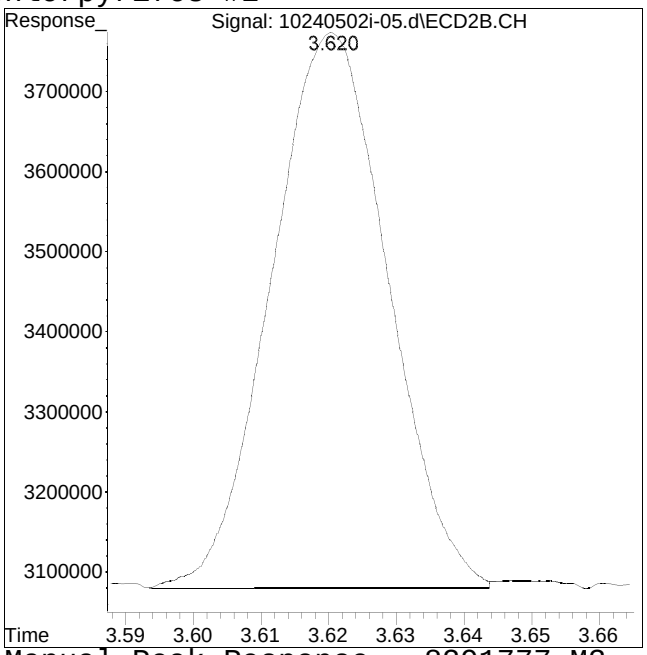
Manual Peak Response = 23084438 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #49: Chlorpyrifos #2



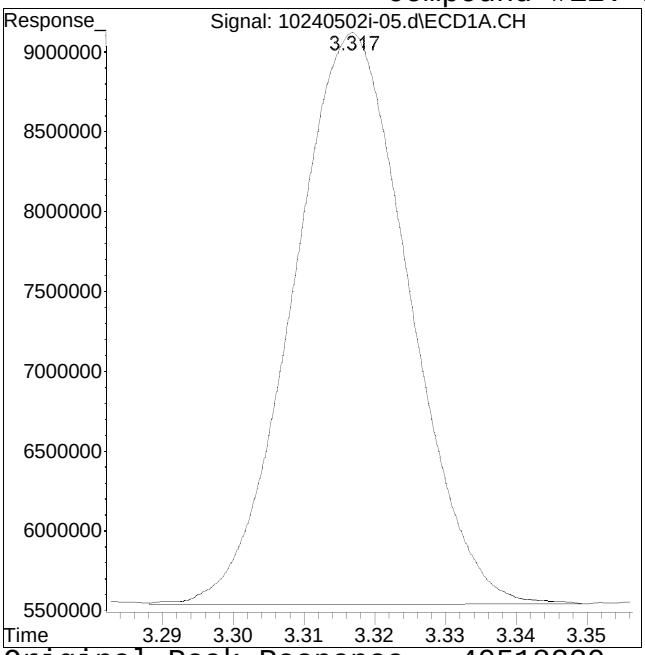


Original Peak Response = 8347117 Manual Peak Response = 8291777 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

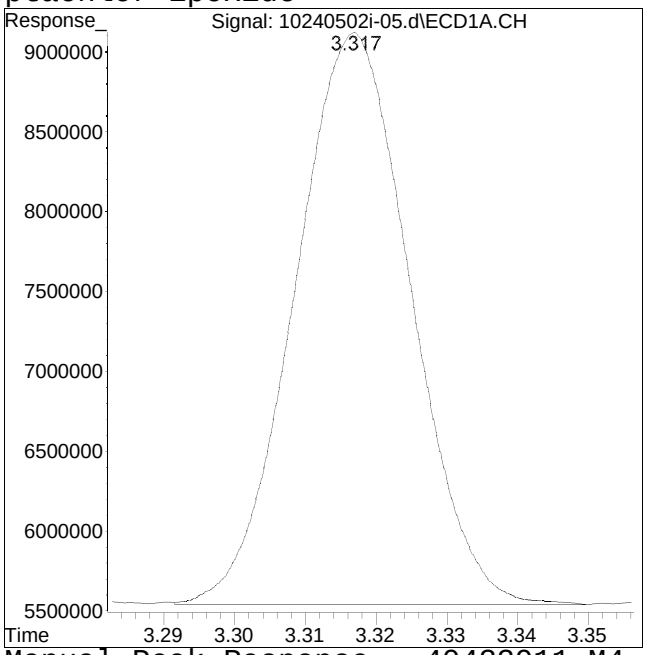
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 40518230



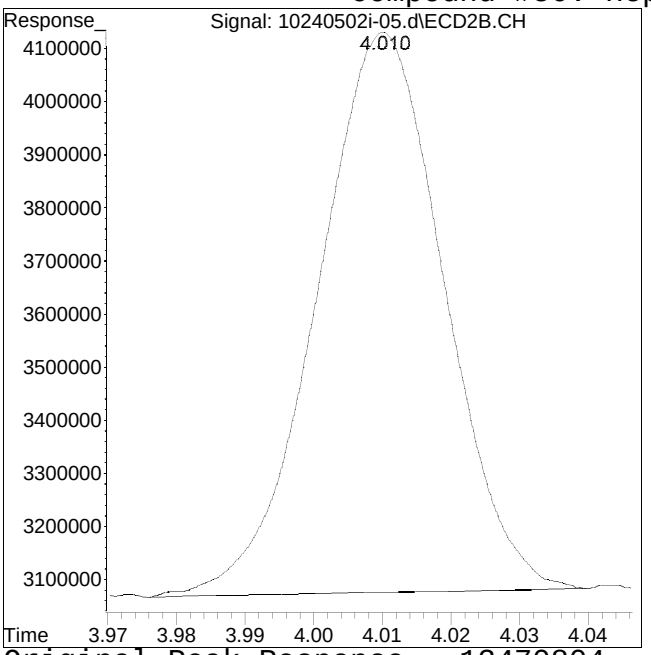
Manual Peak Response = 40433911 M4

M4 = Poor automated baseline construction.

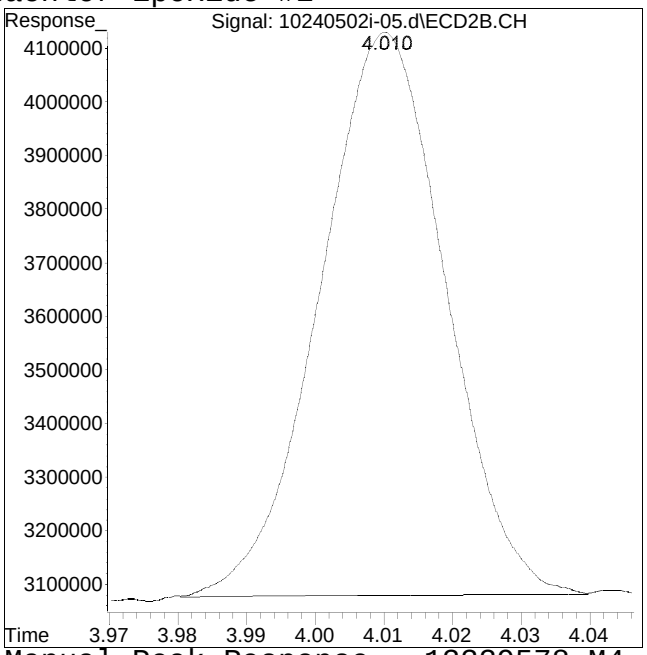
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 13470804



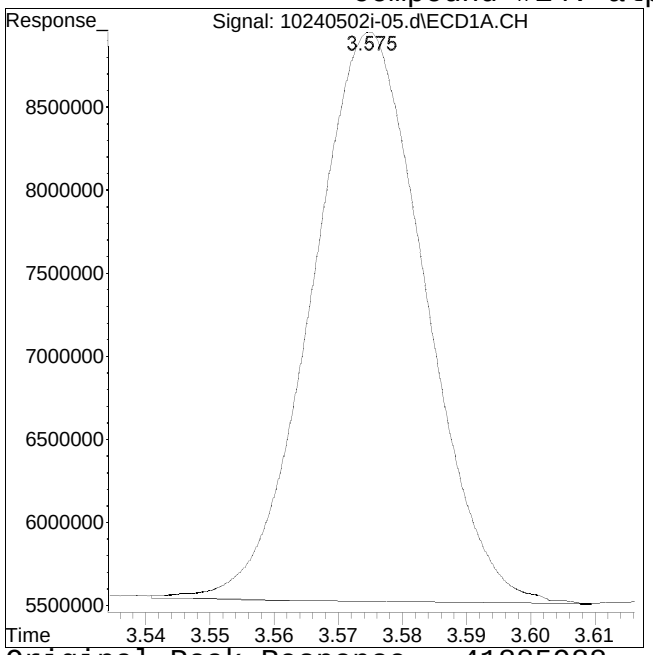
Manual Peak Response = 13339578 M4

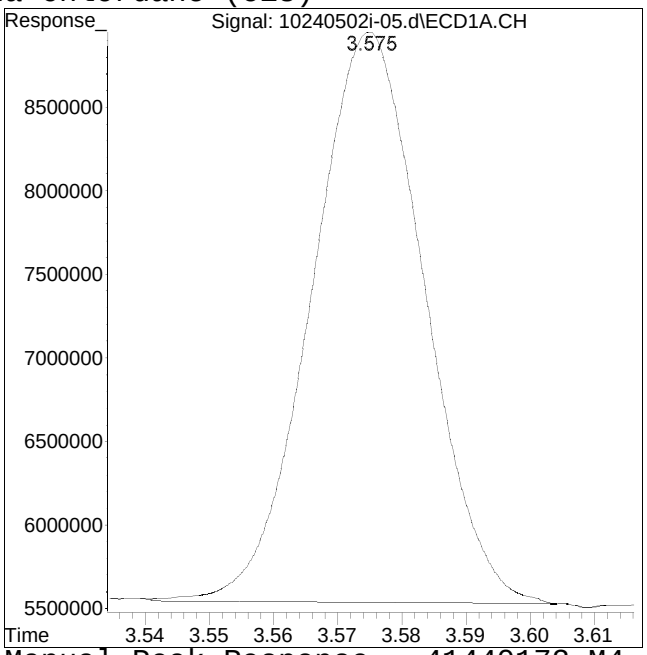
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #14: alpha-Chlordane (cis)



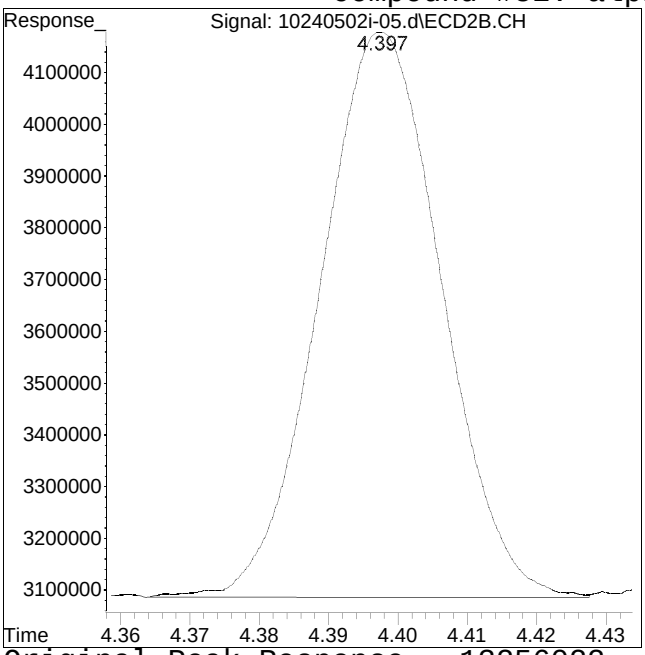


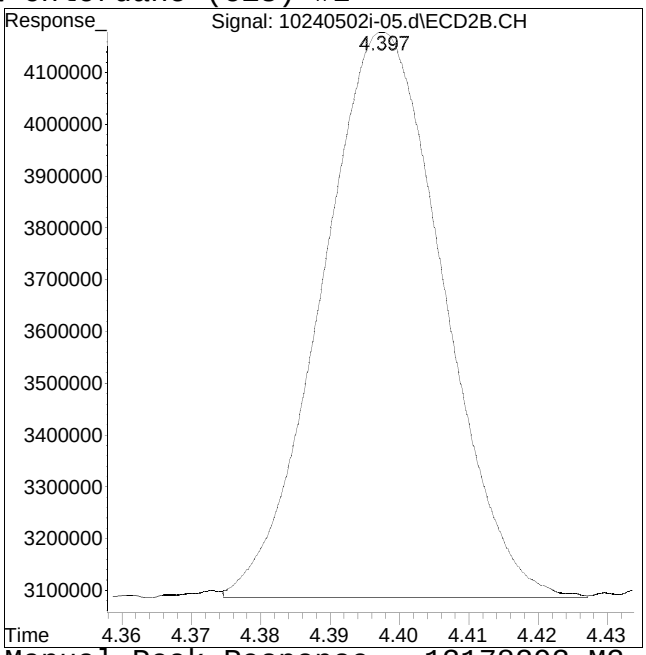
Original Peak Response = 41885988 Manual Peak Response = 41440172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #52: alpha-Chlordane (cis) #2





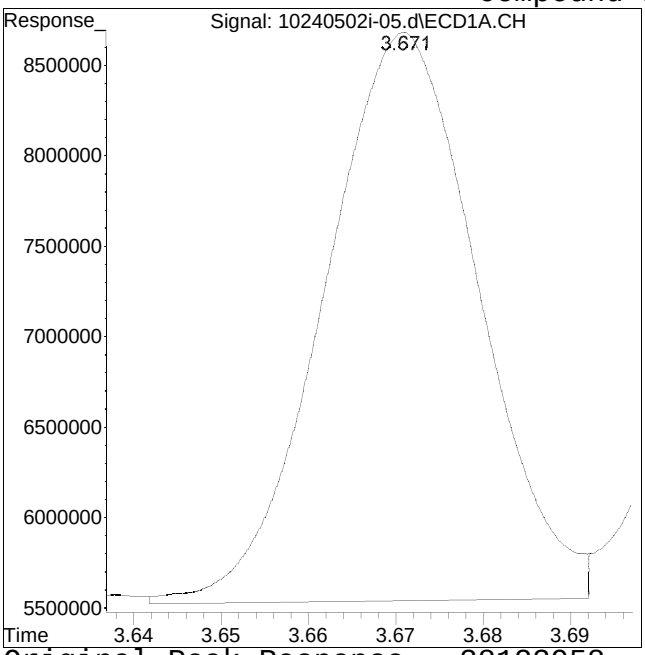
Original Peak Response = 13256022 Manual Peak Response = 13178293 M3

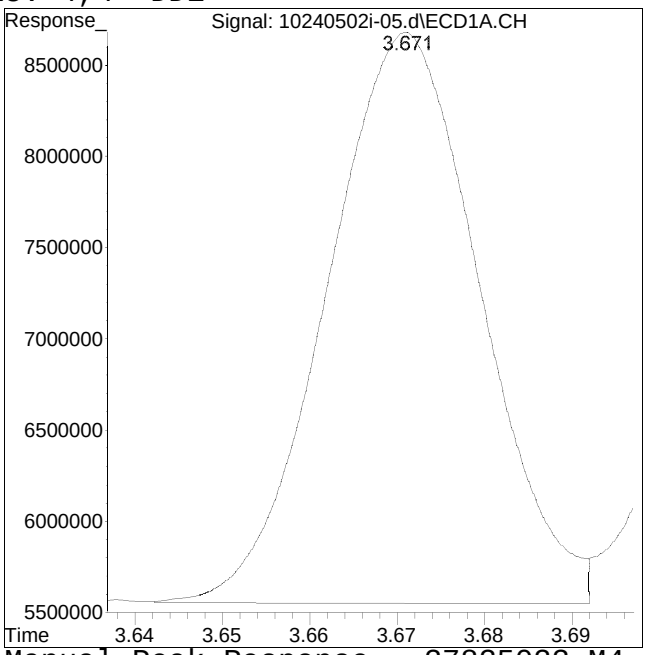
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #15: 4,4'-DDE



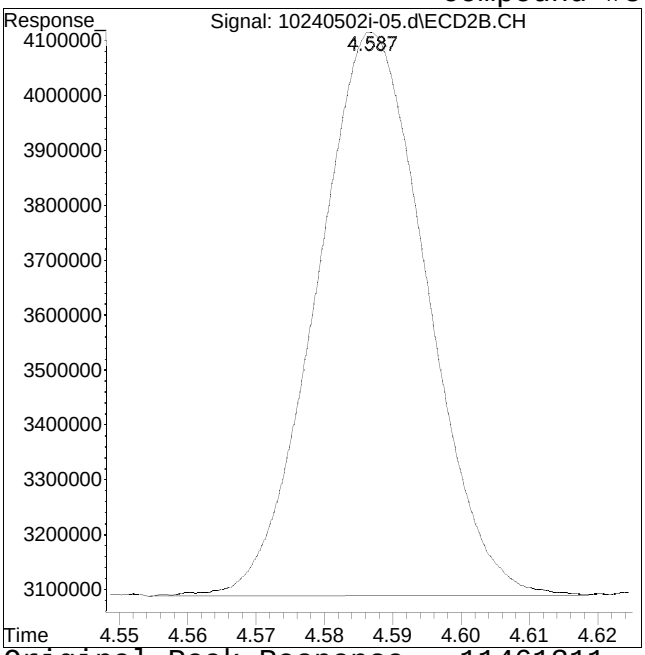


Original Peak Response = 38123958 Manual Peak Response = 37835033 M4
M4 = Poor automated baseline construction.

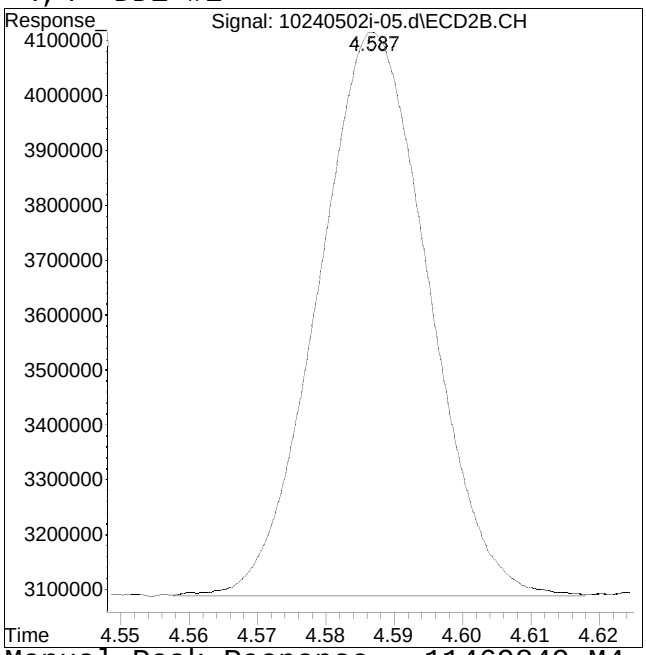
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 11461311



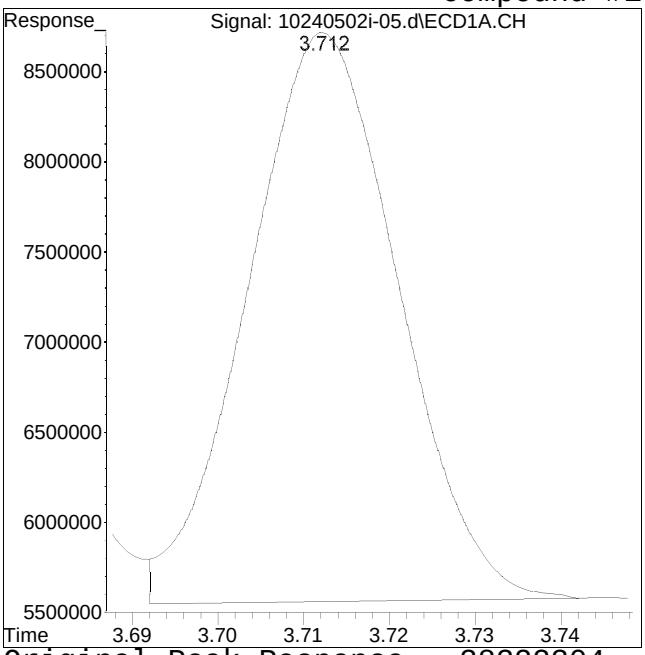
Manual Peak Response = 11469849 M4

M4 = Poor automated baseline construction.

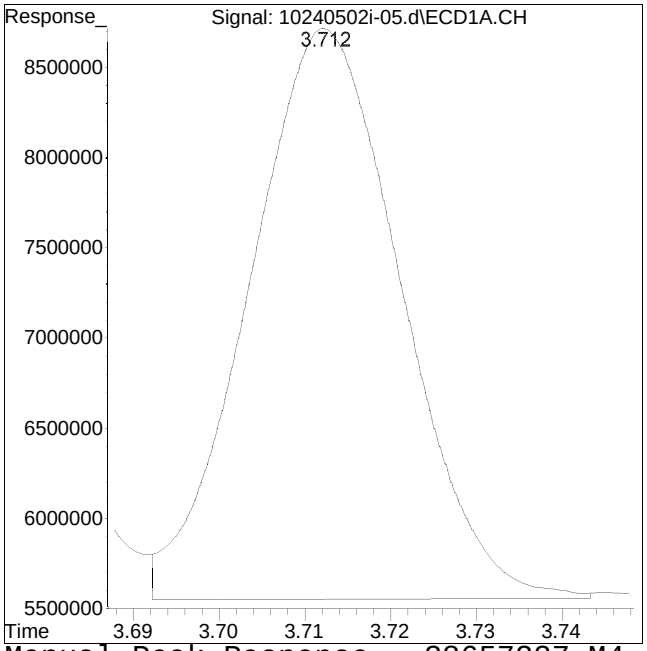
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #16: Endosulfan I



Original Peak Response = 38322304



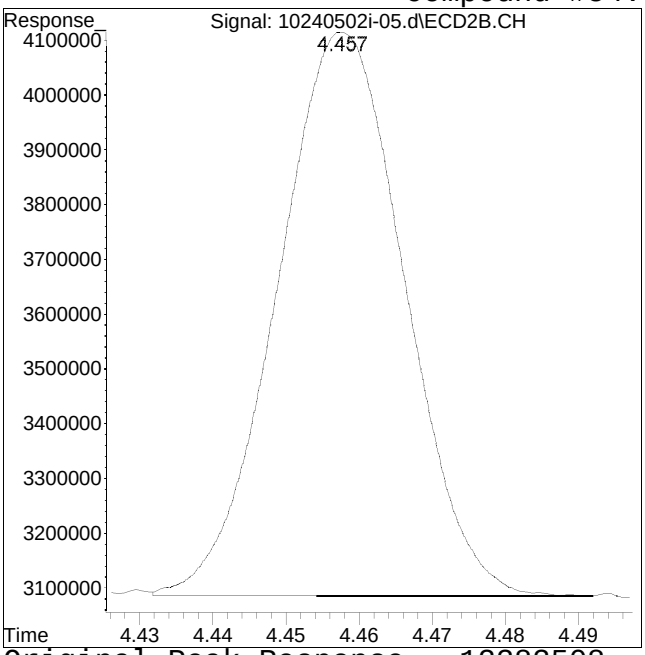
Manual Peak Response = 38657227 M4

M4 = Poor automated baseline construction.

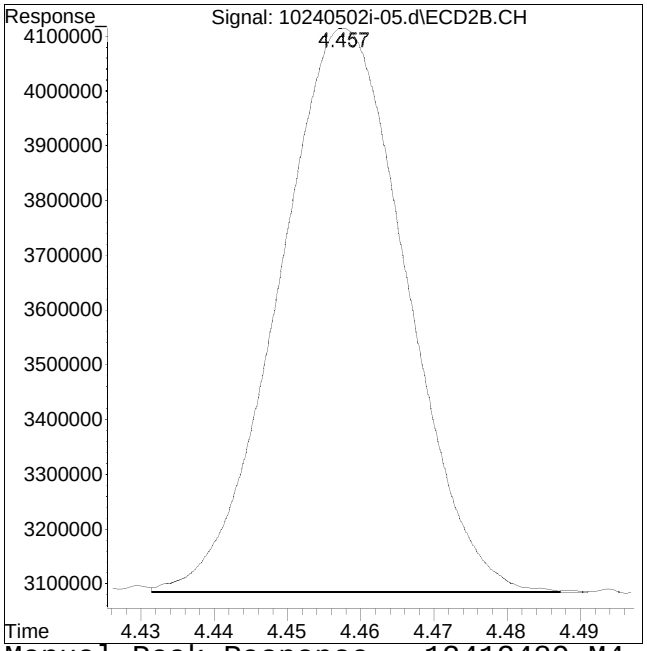
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #54: Endosulfan I #2



Original Peak Response = 12383508



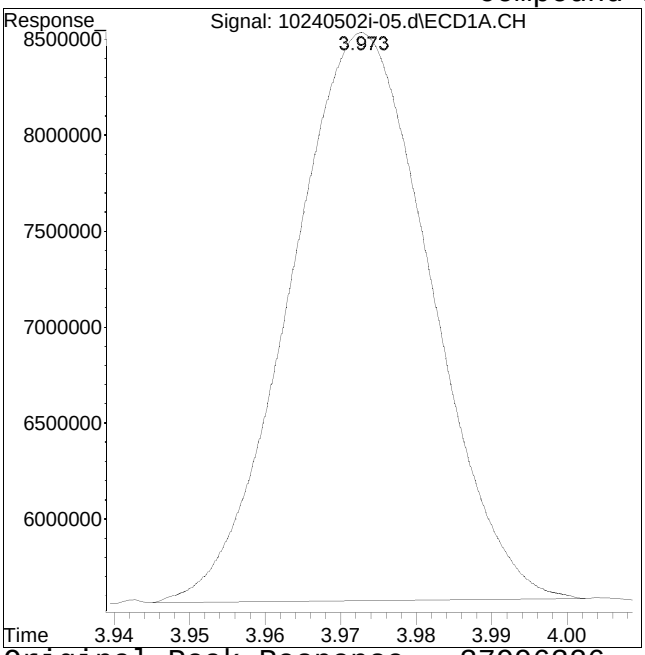
Manual Peak Response = 12412489 M4

M4 = Poor automated baseline construction.

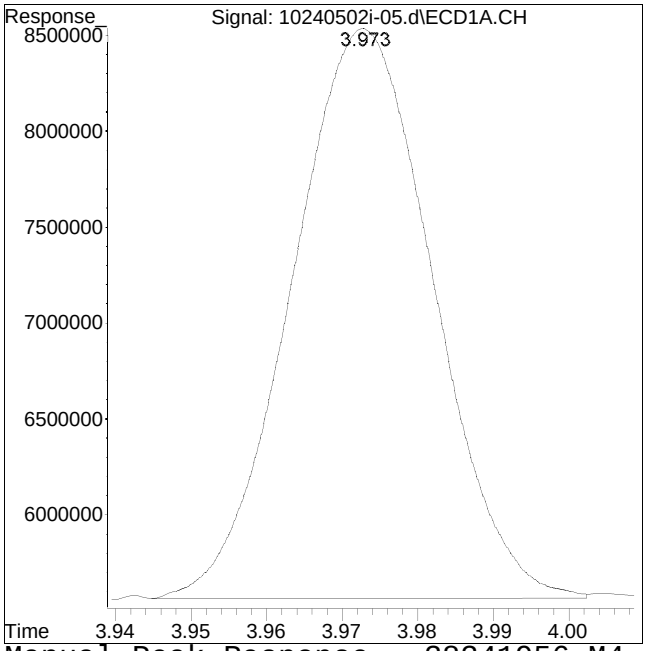
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #17: Dieldrin



Original Peak Response = 37996326

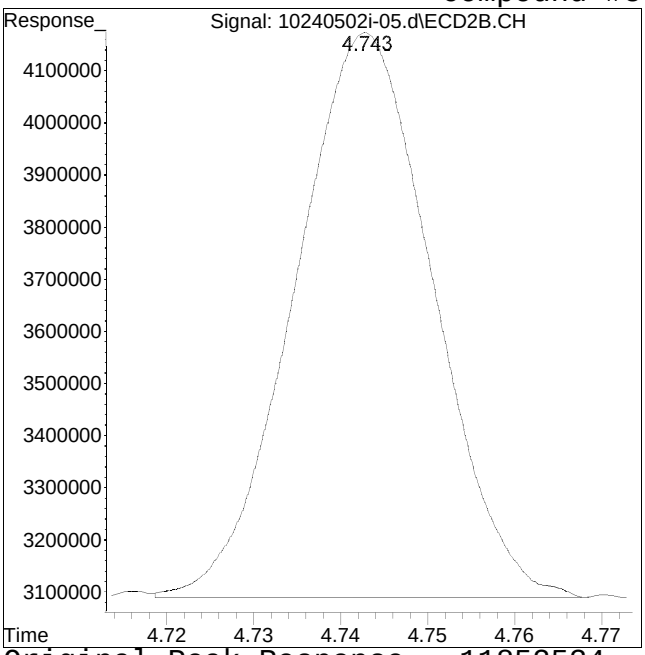


Manual Peak Response = 38341956 M4
M4 = Poor automated baseline construction.

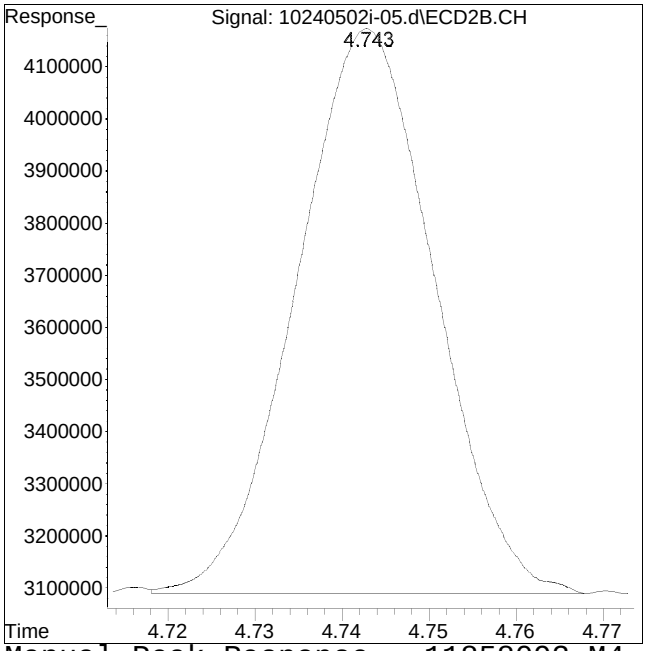
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #55: Dieldrin #2



Original Peak Response = 11852534

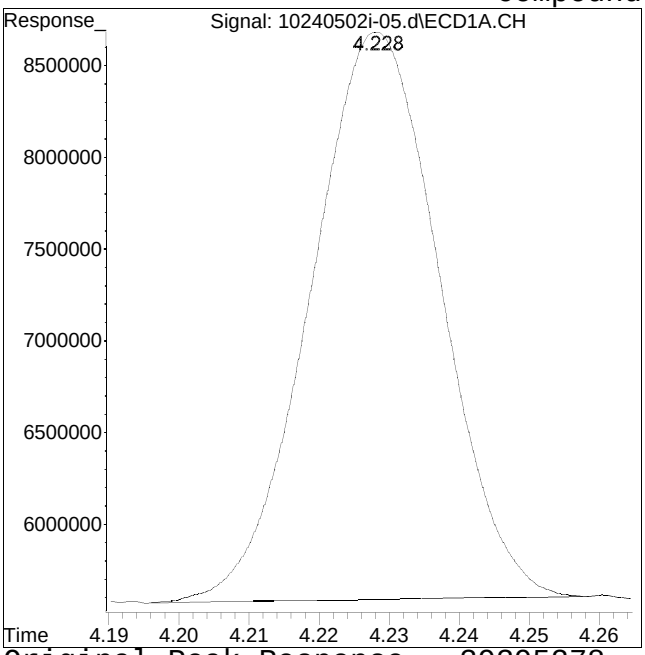


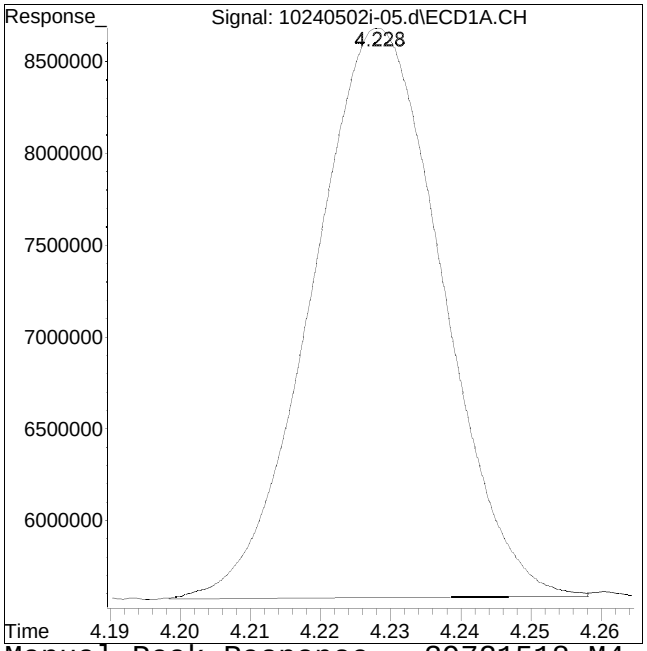
Manual Peak Response = 11858093 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #18: Endrin



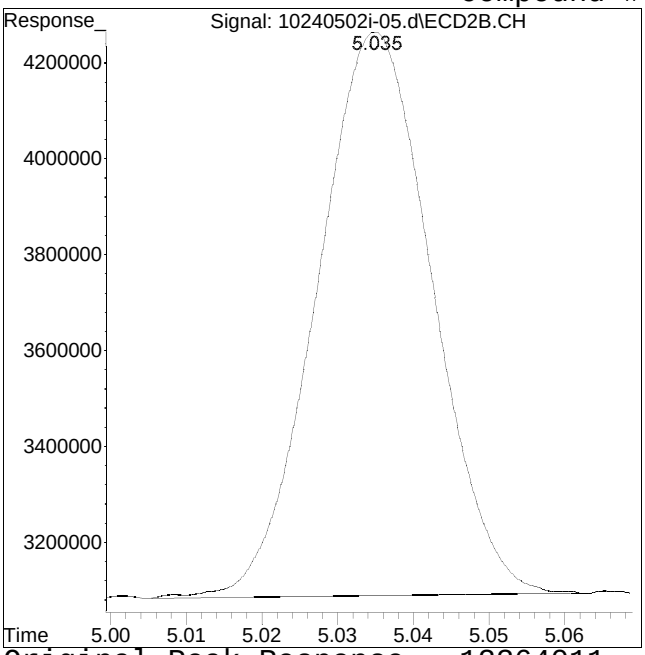


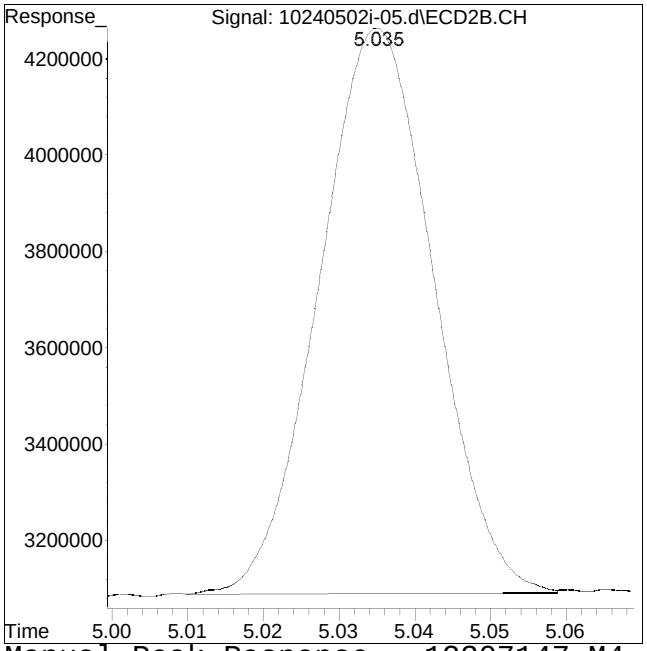
Original Peak Response = 39395278 Manual Peak Response = 39721518 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #56: Endrin #2



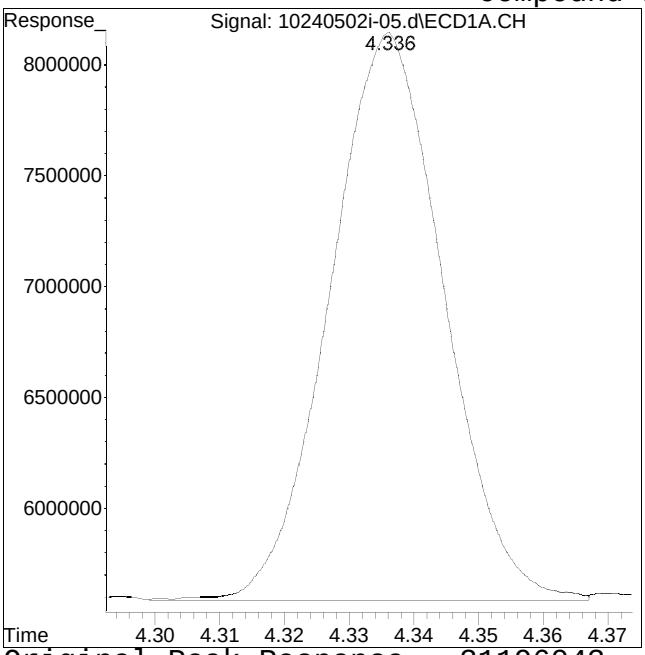


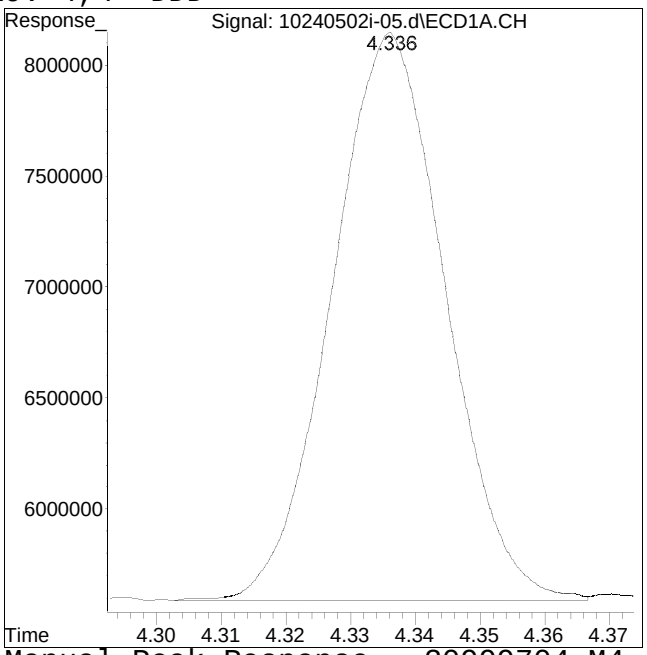
Original Peak Response = 12364011 Manual Peak Response = 12307147 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #19: 4,4'-DDD



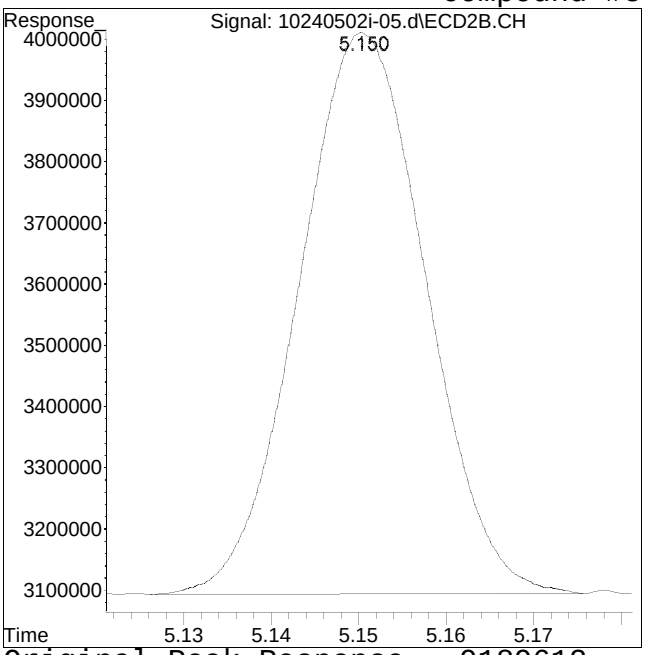


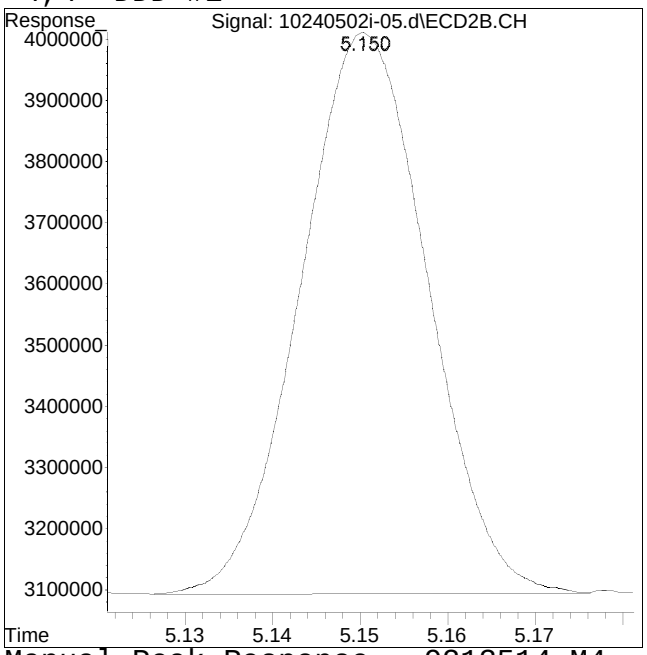
Original Peak Response = 31196043 Manual Peak Response = 30999704 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #57: 4,4'-DDD #2



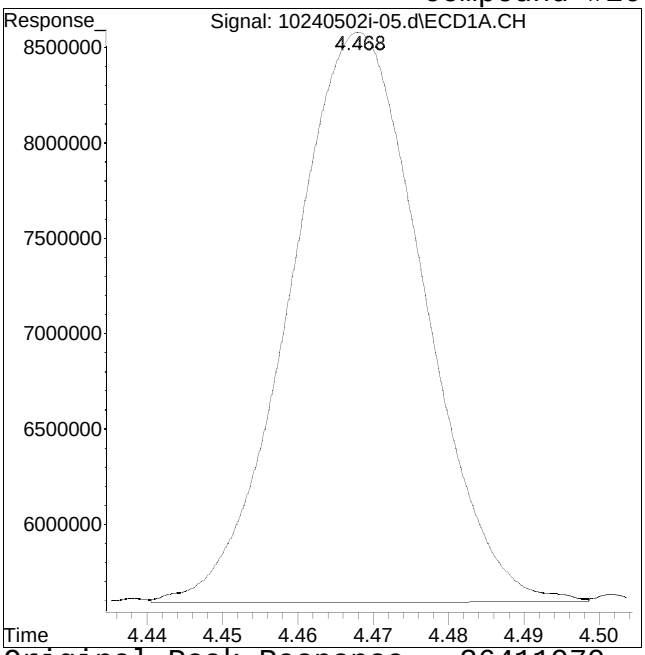


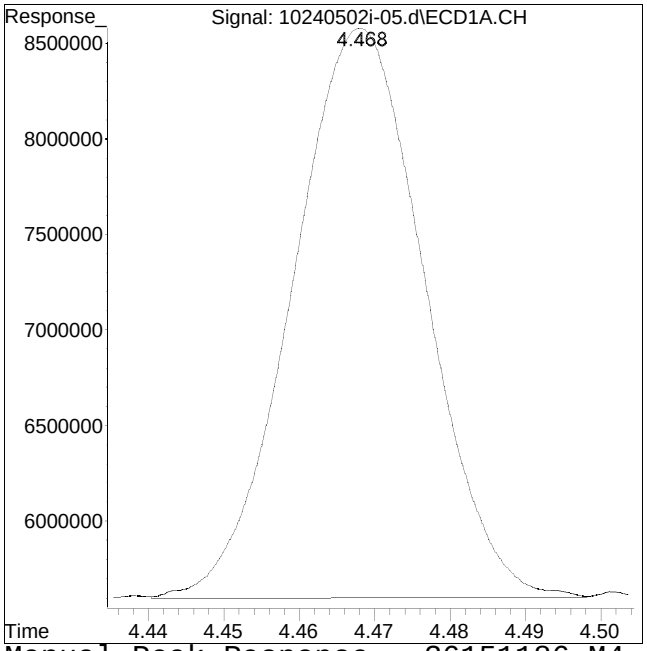
Original Peak Response = 9189612 Manual Peak Response = 9213514 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #20: Endosulfan II



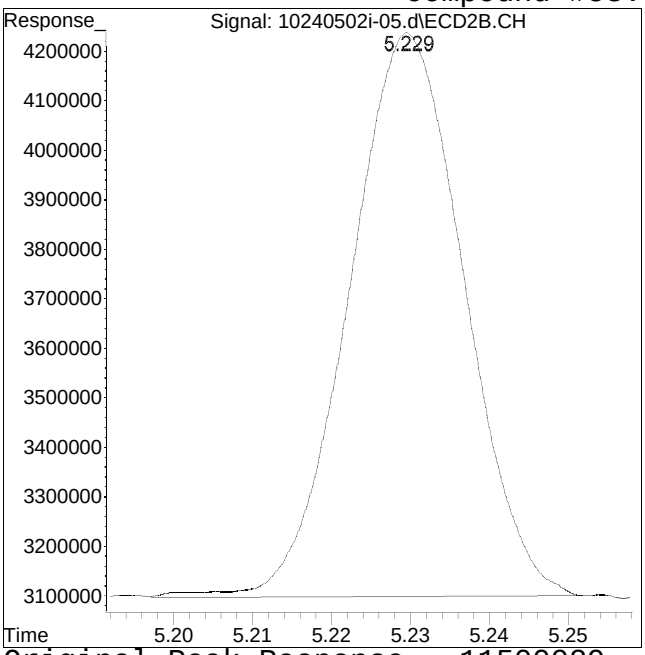


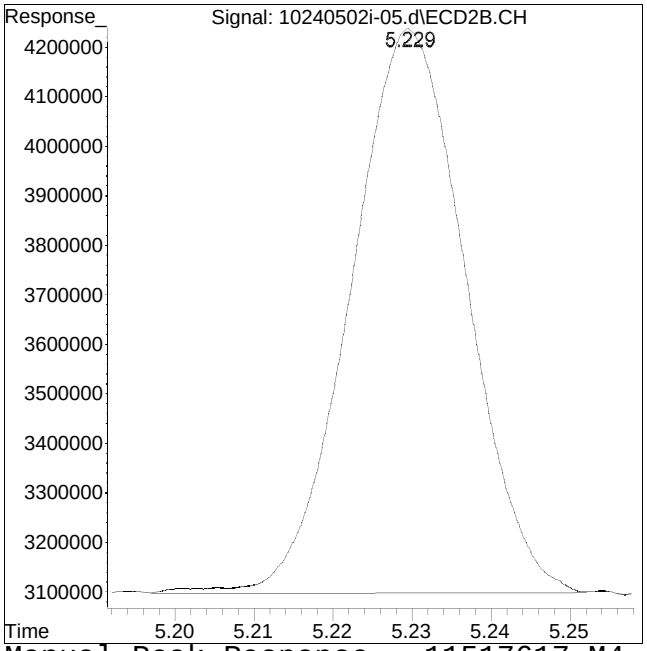
Original Peak Response = 36411970 Manual Peak Response = 36151186 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #58: Endosulfan II #2



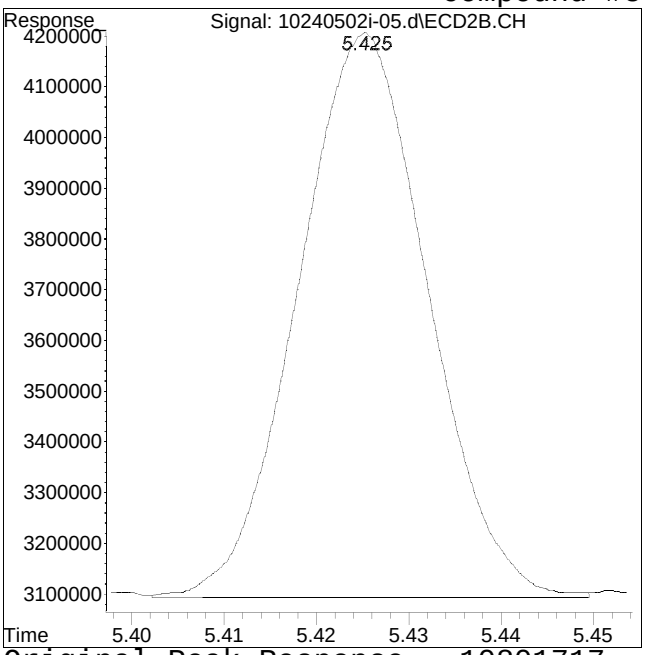


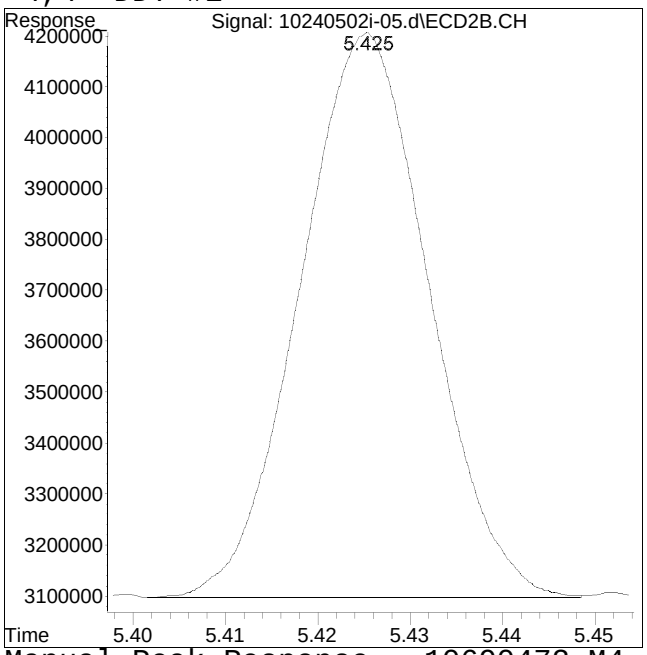
Original Peak Response = 11500029 Manual Peak Response = 11517617 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #59: 4,4'-DDT #2



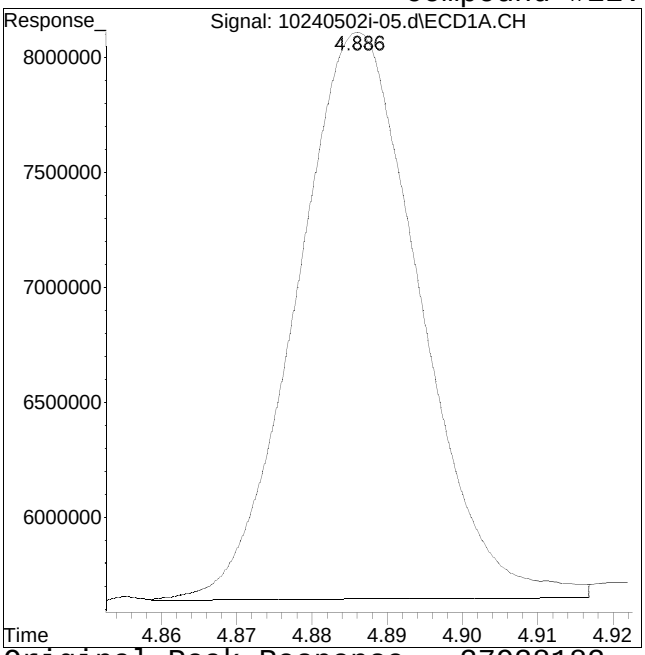


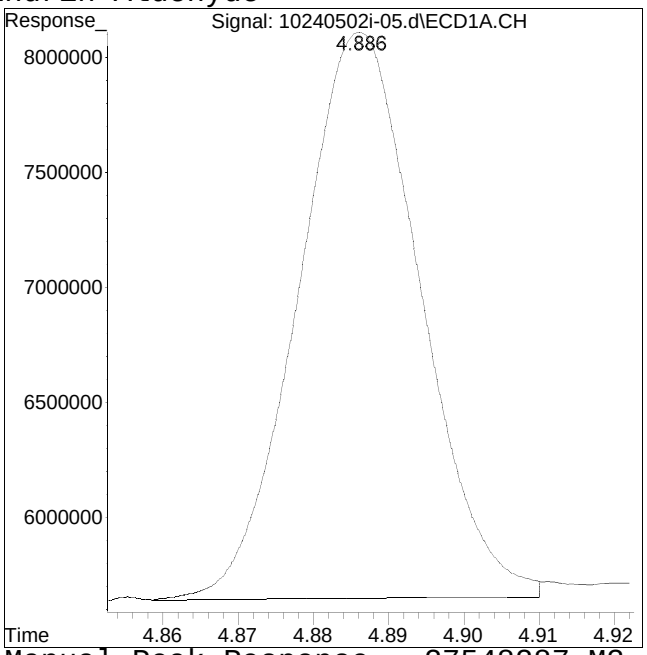
Original Peak Response = 10801717 Manual Peak Response = 10690472 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #22: Endrin Aldehyde



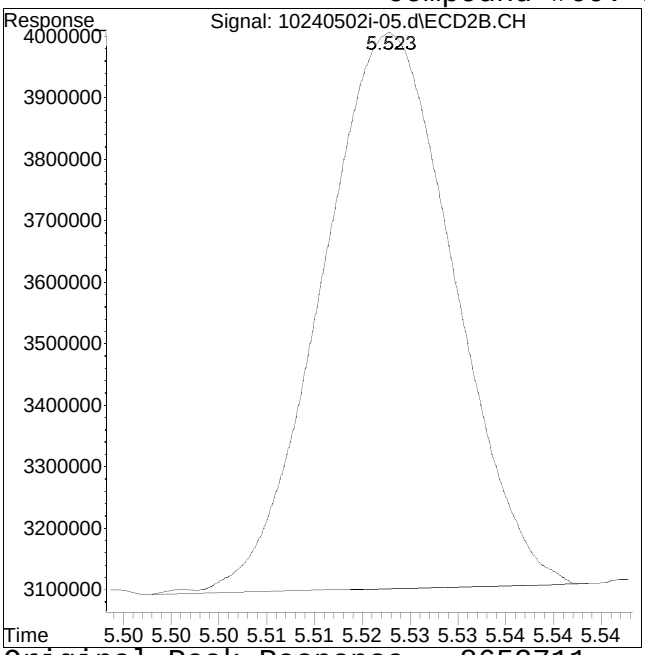


Original Peak Response = 27938182 Manual Peak Response = 27548287 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

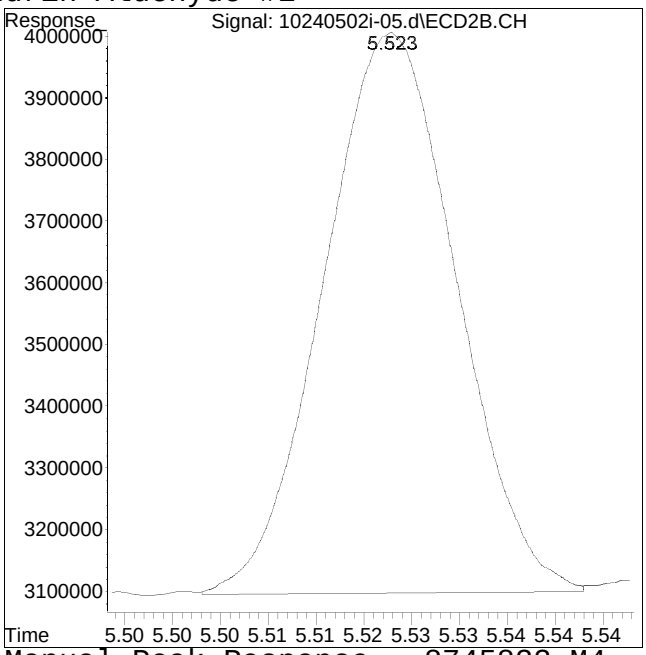
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 8652711



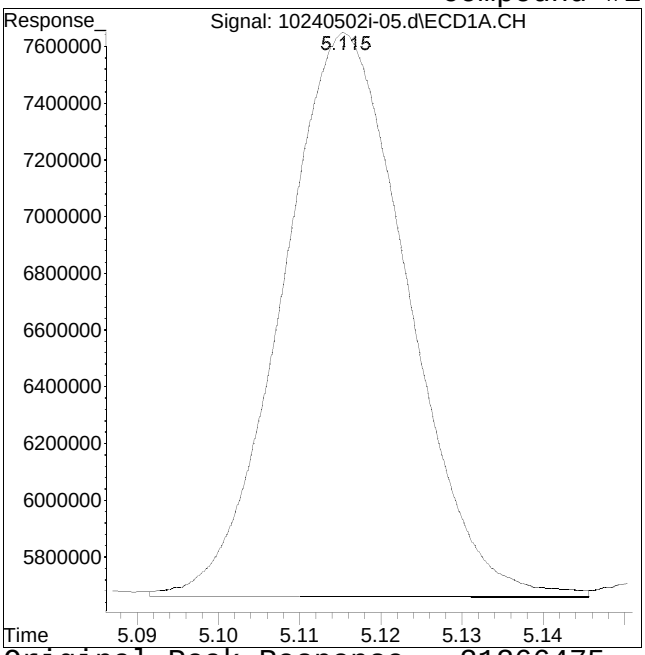
Manual Peak Response = 8745833 M4

M4 = Poor automated baseline construction.

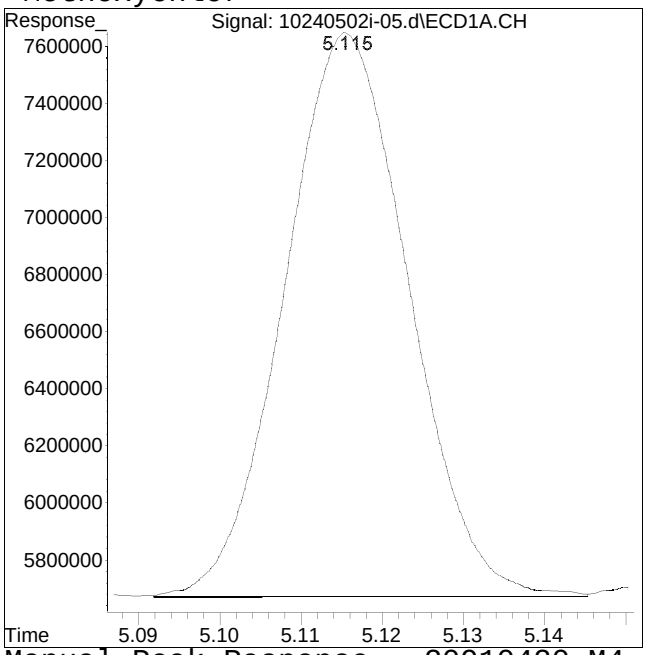
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #23: Methoxychlor



Original Peak Response = 21266475



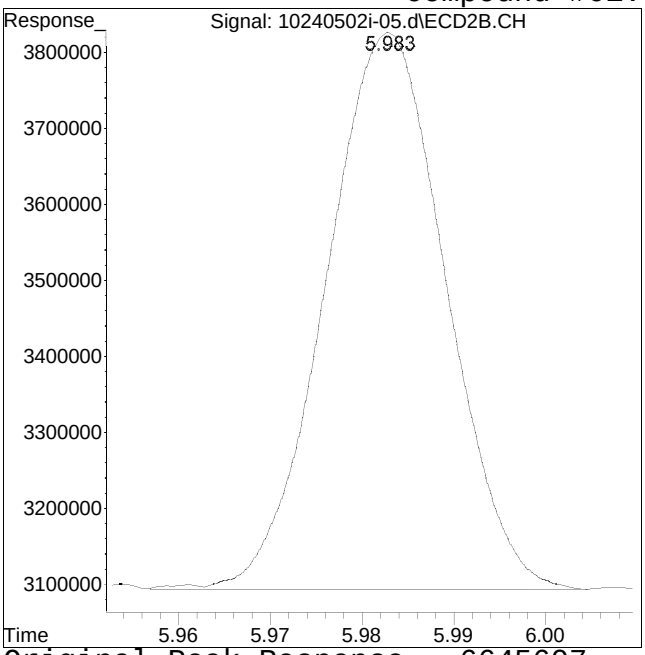
Manual Peak Response = 20910420 M4

M4 = Poor automated baseline construction.

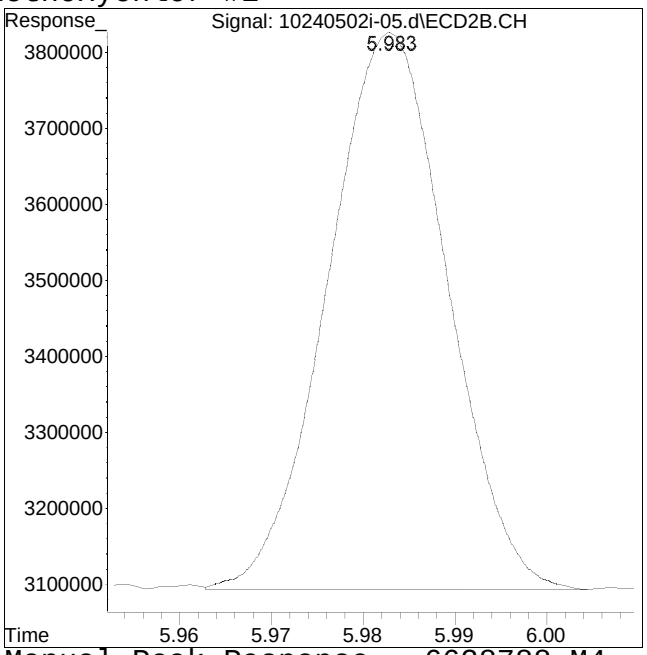
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #61: Methoxychlor #2



Original Peak Response = 6645607



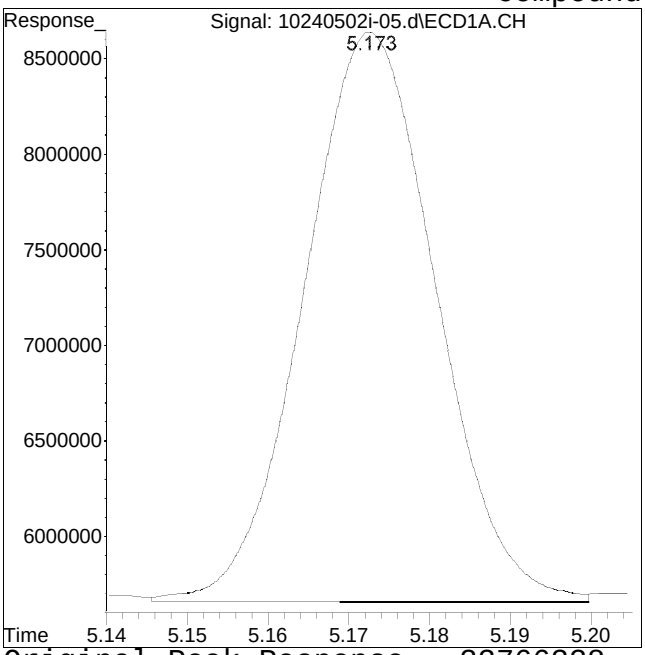
Manual Peak Response = 6628788 M4

M4 = Poor automated baseline construction.

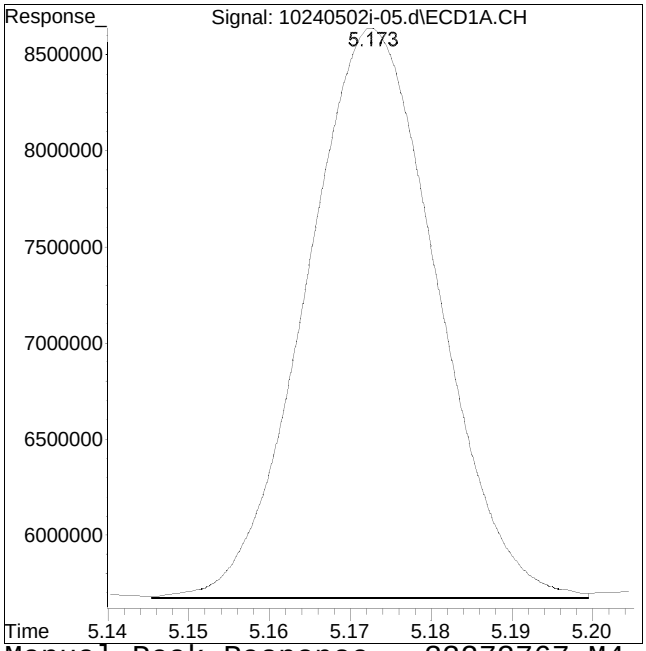
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #24: Mirex



Original Peak Response = 33766338



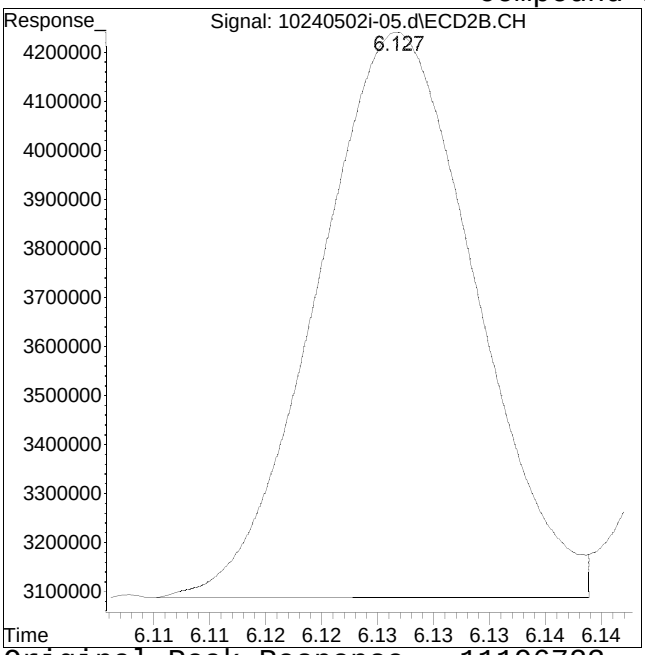
Manual Peak Response = 33273767 M4

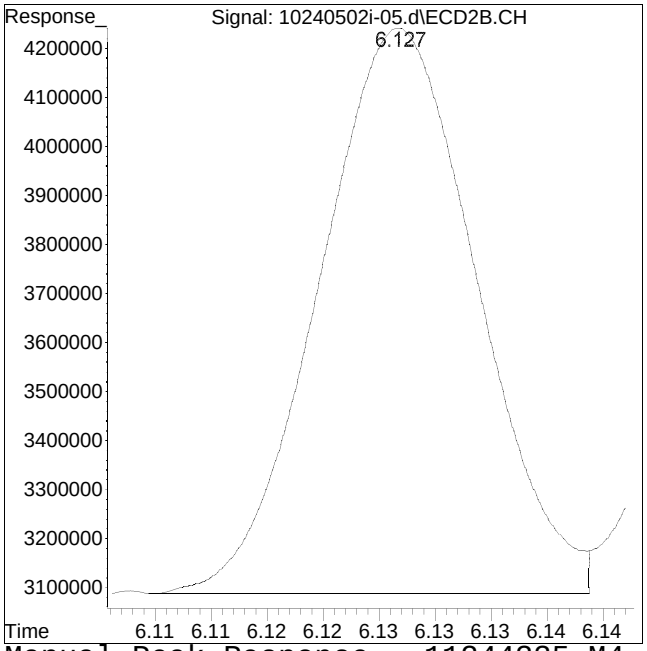
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #62: Mirex #2



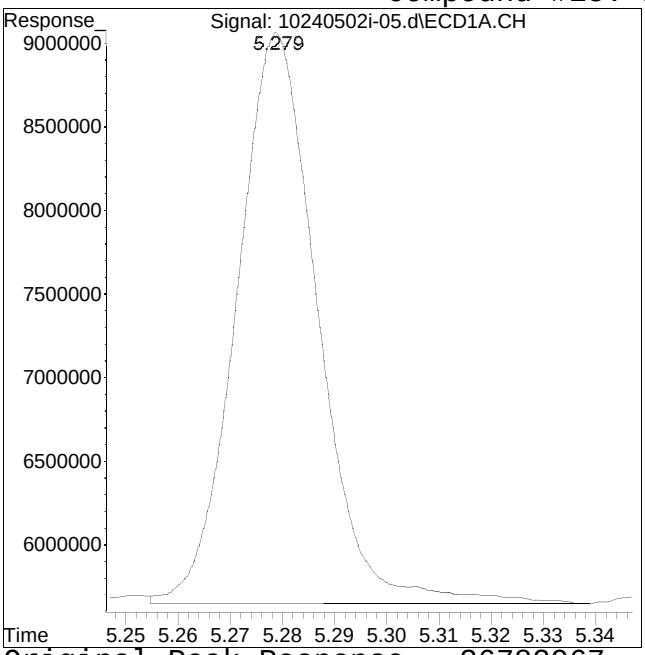


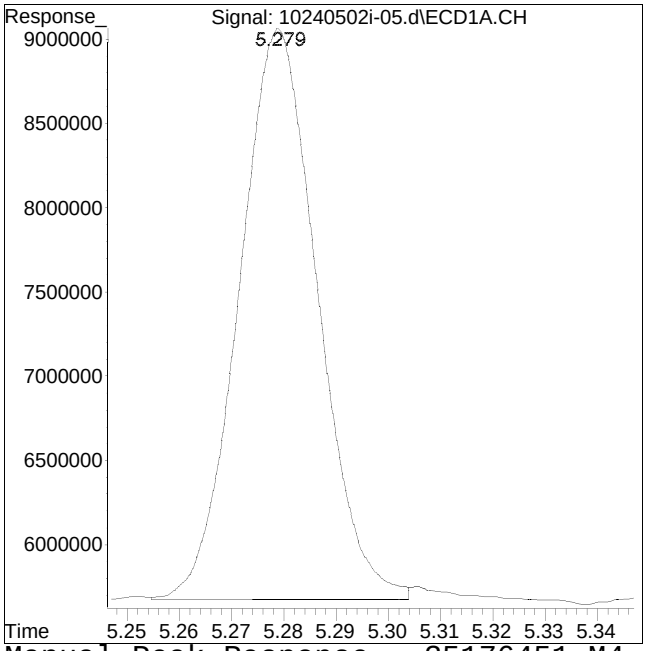
Original Peak Response = 11196723 Manual Peak Response = 11244335 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #25: Endosulfan Sulfate



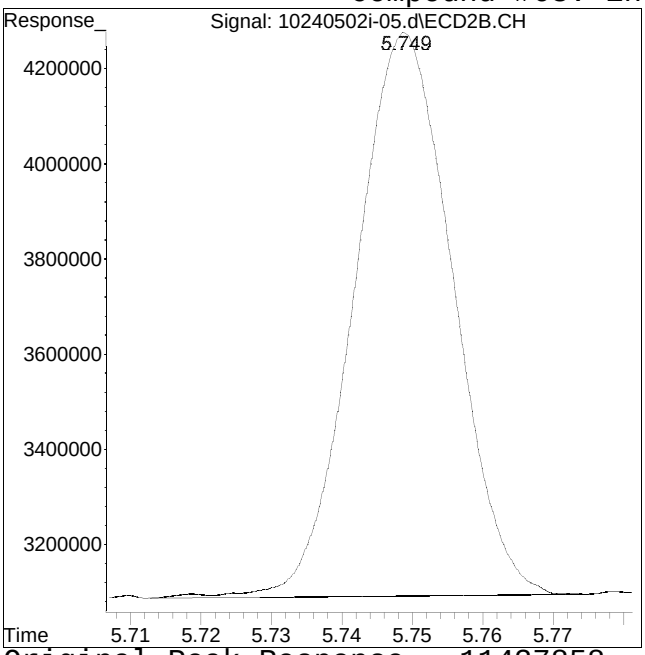


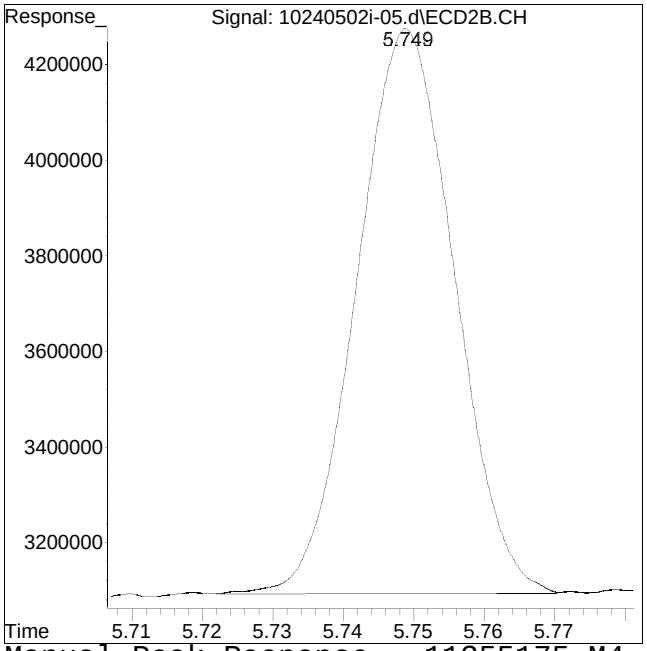
Original Peak Response = 36782967 Manual Peak Response = 35176451 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #63: Endosulfan Sulfate #2



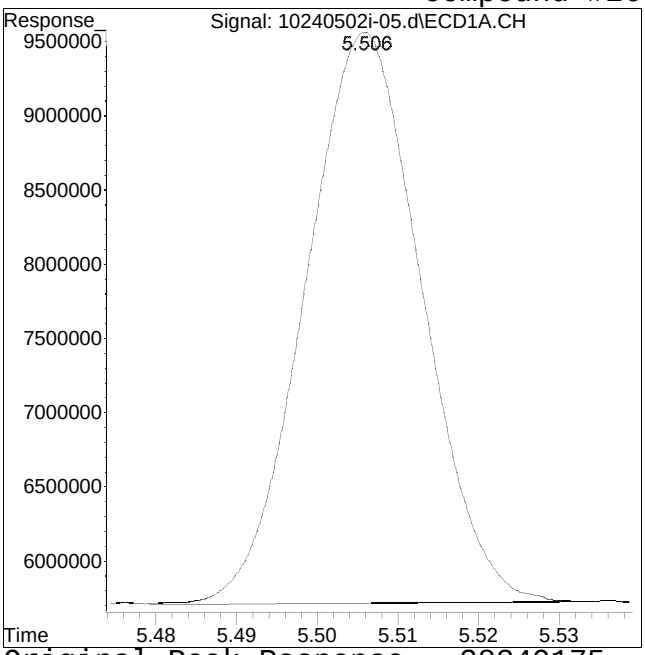


Original Peak Response = 11437858 Manual Peak Response = 11355175 M4
M4 = Poor automated baseline construction.

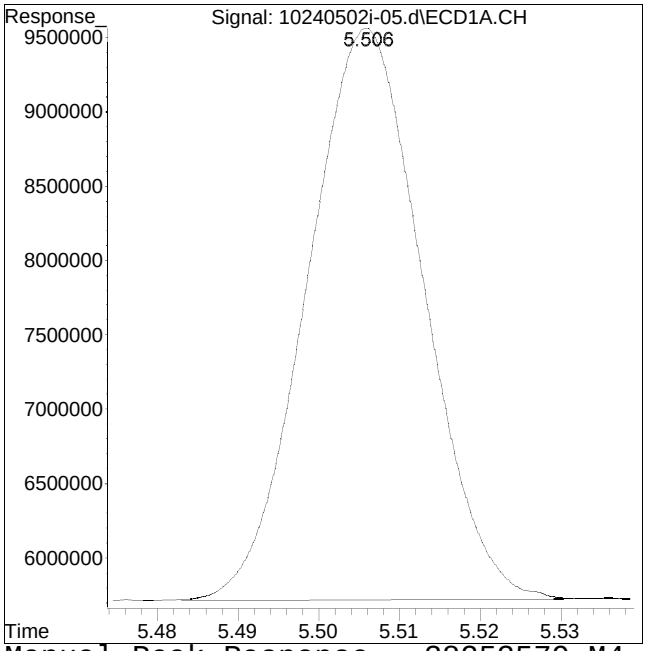
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #26: Endrin Ketone



Original Peak Response = 38349175



Manual Peak Response = 38253579 M4

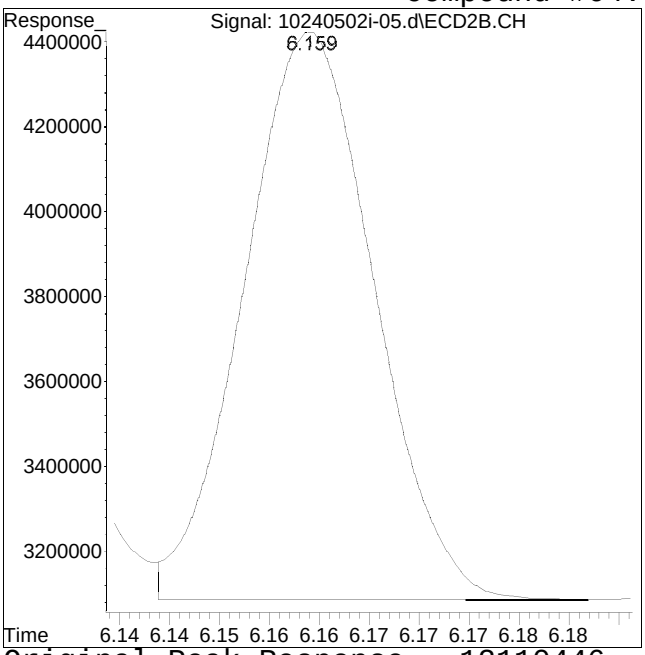
M4 = Poor automated baseline construction.

Manual Integration Report

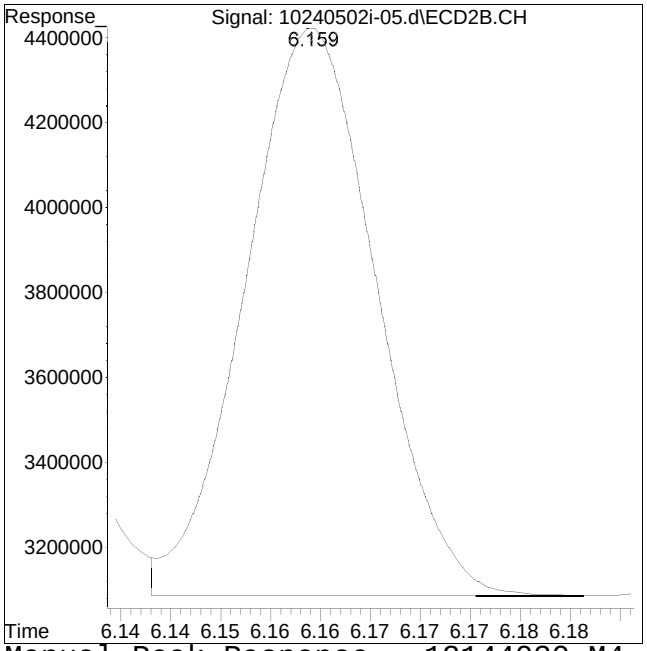
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 12110446



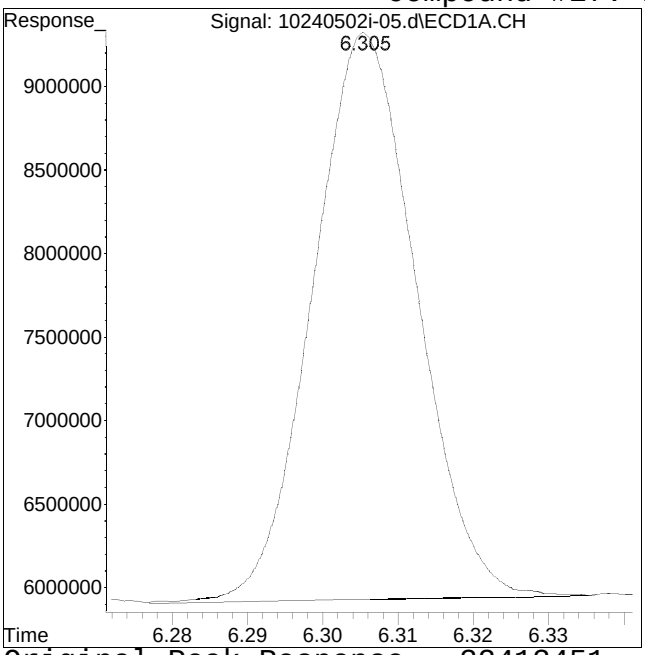
Manual Peak Response = 12144030 M4

M4 = Poor automated baseline construction.

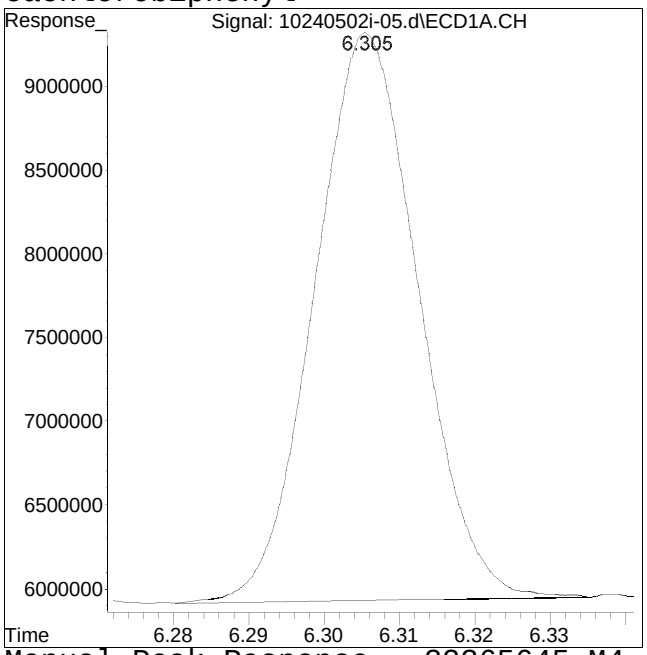
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 32413451



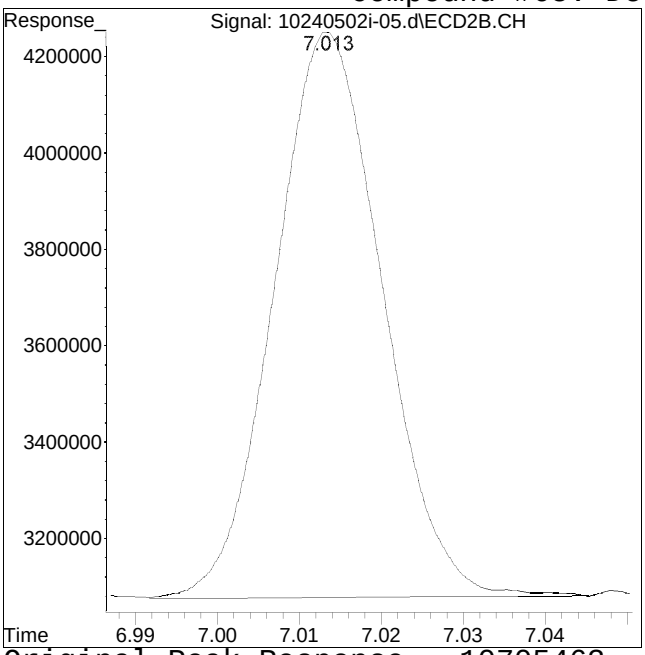
Manual Peak Response = 32365645 M4

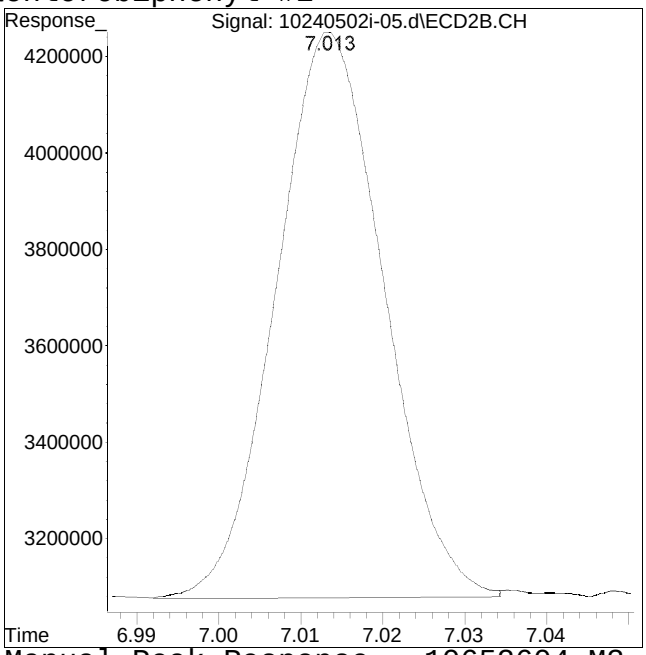
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 10705463 Manual Peak Response = 10652604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	377.7E6	139.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	52230420	15948507	3.186M3	3.047M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.37%#	6.09%#
27) s	Decachlorobi	6.306	7.013	47103868	15514040	3.354M3	3.350M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.71%#	6.70%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	56407188	18979472	3.220M4	3.155M3
4) t	alpha-BHC	1.976	2.349	66771775	20578818	2.927M3	2.761M4
5) t	gamma-BHC (l	2.179	2.644	64075565	20049959	2.963M3	2.864M3
6) t	beta-BHC	2.235	2.709	31570892	10637090	3.289M4	3.212M4
7) t	delta-BHC	2.364	2.983	62945468	19721612	2.950M4	2.805M4
8) t	Heptachlor	2.526	3.053	65404583	20900546	3.185M4	3.007M4
9) t	Aldrin	2.770	3.381	59518132	18657708	3.073	2.947
10) t D	Alachlor	2.892	3.258	10329932	4268038	2.412M4	3.857M4
11) t D	Chlorpyrifos	2.983	3.620	33863929	12194732	2.225	3.656M4
12) t	Heptachlor E	3.316	4.010	59480755	19388633	3.224M4	3.063M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.440	4.233	52967550	17147818	3.138M4	3.045M4
14)	t	alpha-Chlord	3.574	4.398	60378805	19406542	3.149M3	3.064M4
15)	t	4,4'-DDE	3.671	4.587	55884910	17075892	3.078	2.916M4
16)	t	Endosulfan I	3.712	4.459	56904965	18315496	3.227	3.109
17)	t	Dieldrin	3.972	4.743	56642981	17430799	3.124M4	2.957M3
18)	t	Endrin	4.228	5.036	58872446	18006118	3.162	2.977M4
19)	t	4,4'-DDD	4.335	5.151	45846933	13610122	3.106M4	2.888M4
20)	t	Endosulfan I	4.467	5.229	53564047	16786051	3.333M4	3.169M4
21)	t	4,4'-DDT	4.629	5.425	50898361	15872058	3.116	2.970M4
22)	t	Endrin Aldeh	4.886	5.523	35809657	11444622	2.782	2.754M4
23)	t	Methoxychlor	5.115	5.983	31492192	9742437	2.885M4	3.316M4
24)	t	Mirex	5.172	6.127	49569680	16185120	2.993M4	3.473
25)	t	Endosulfan S	5.279	5.749	52105594	16480003	3.269M4	3.121M4
26)	t	Endrin Keton	5.506	6.159	56791924	17932304	3.249	3.117M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

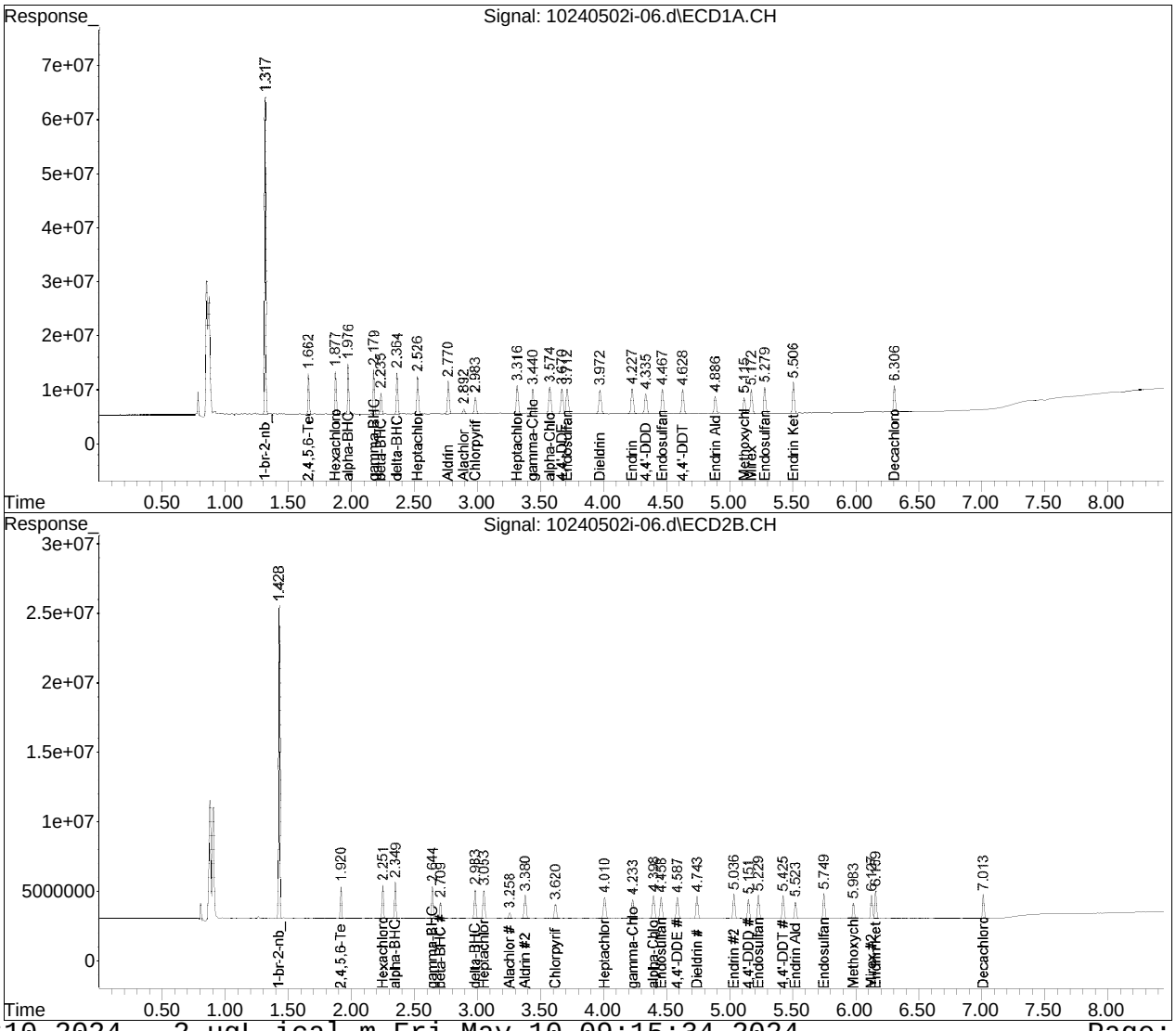
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

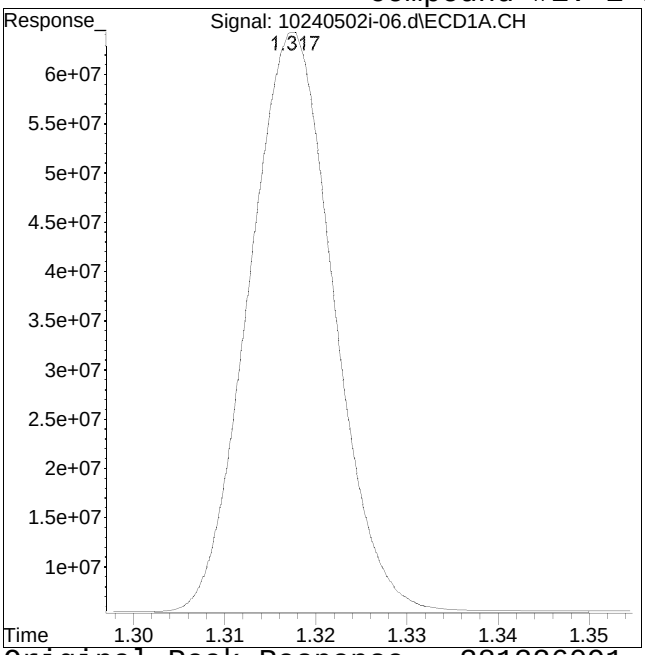


Manual Integration Report

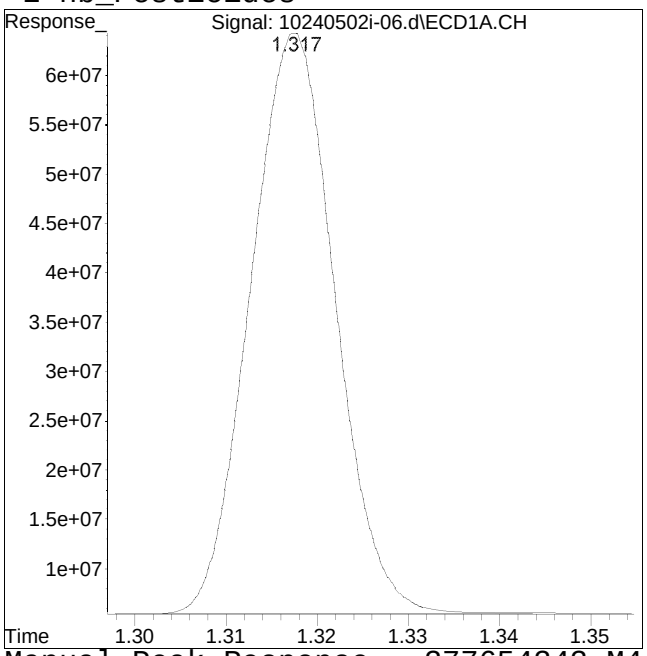
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 381326091



Manual Peak Response = 377654343 M4

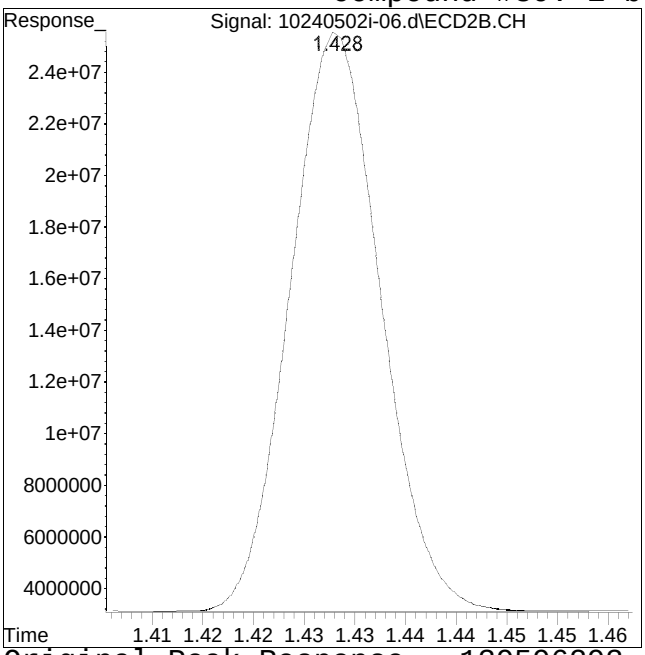
M4 = Poor automated baseline construction.

Manual Integration Report

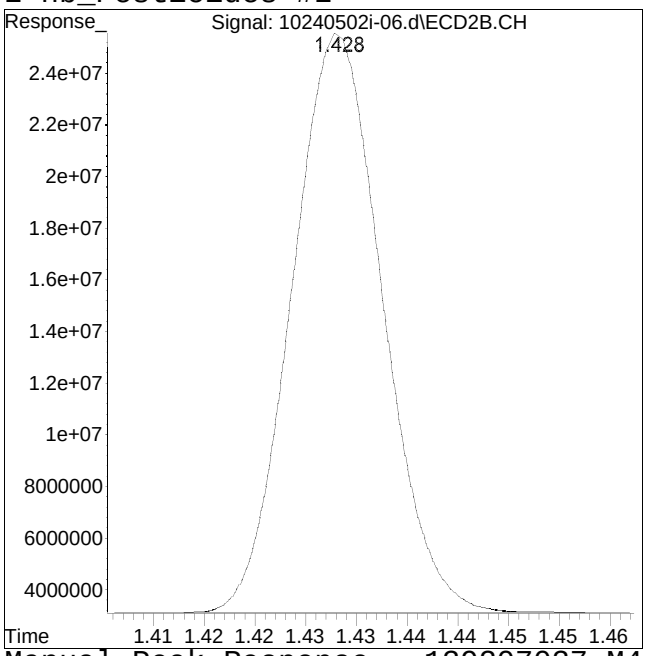
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 139596293



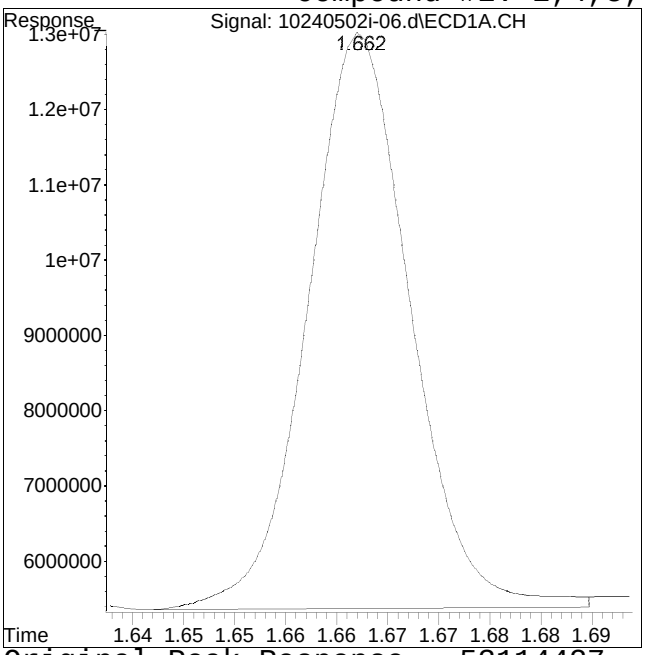
Manual Peak Response = 139207037 M4

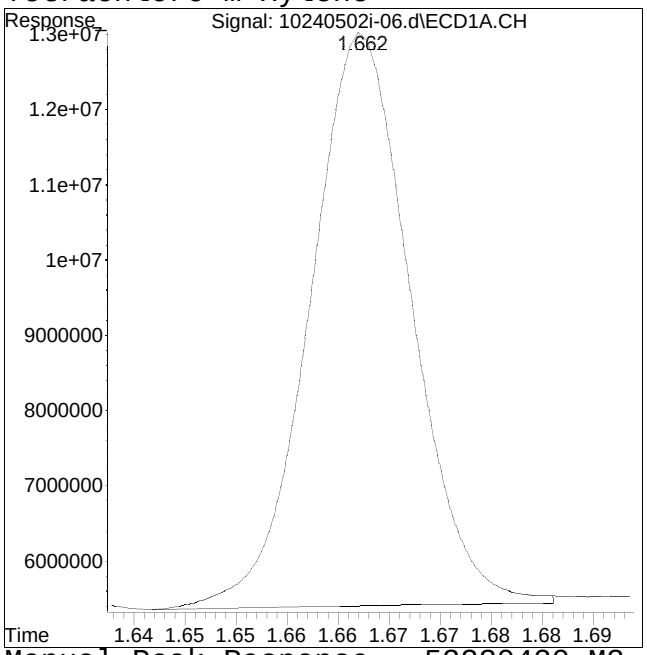
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



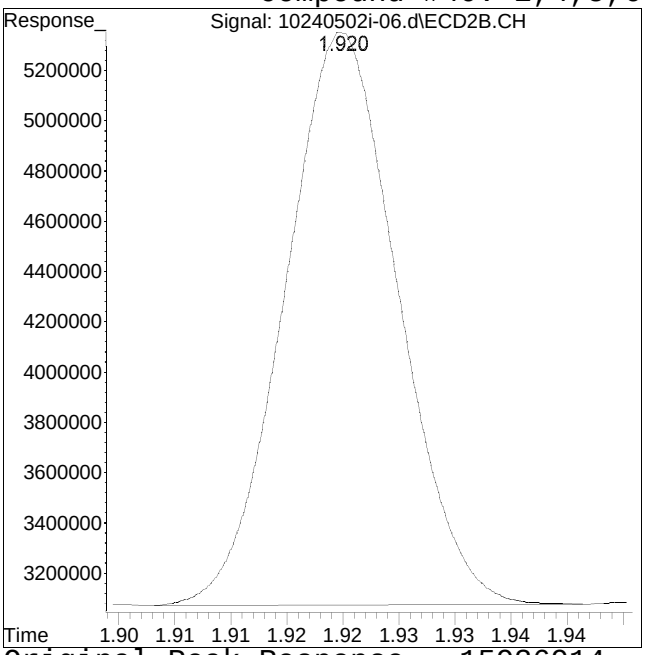


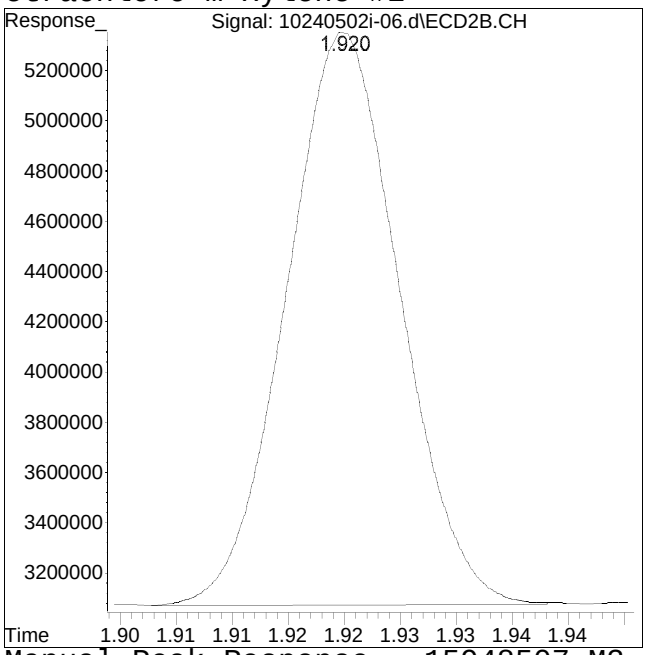
Original Peak Response = 53114427 Manual Peak Response = 52230420 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





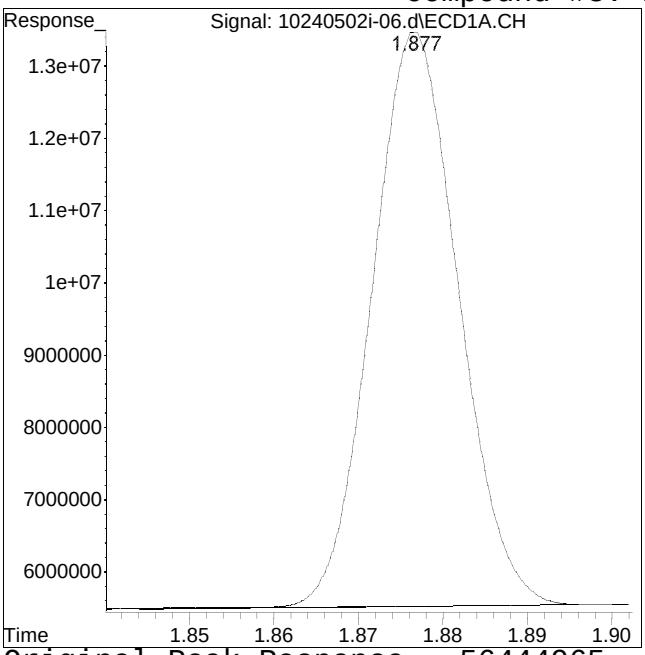
Original Peak Response = 15936914 Manual Peak Response = 15948507 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

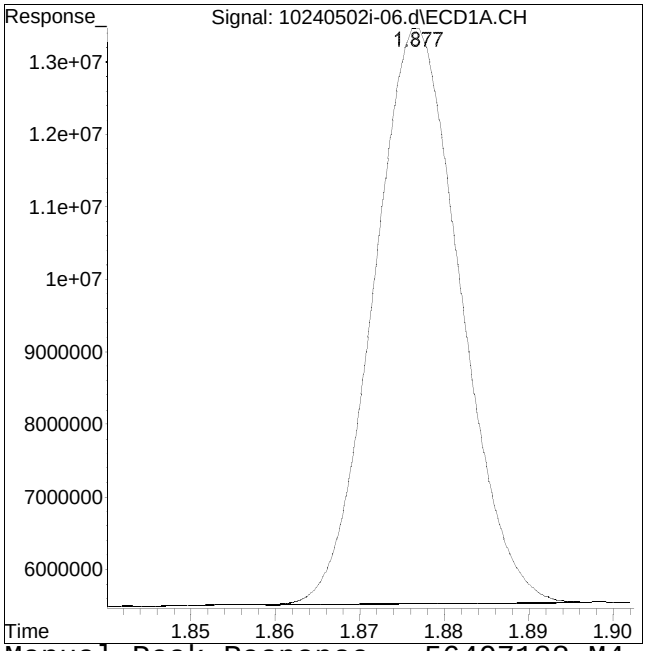
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 56444965



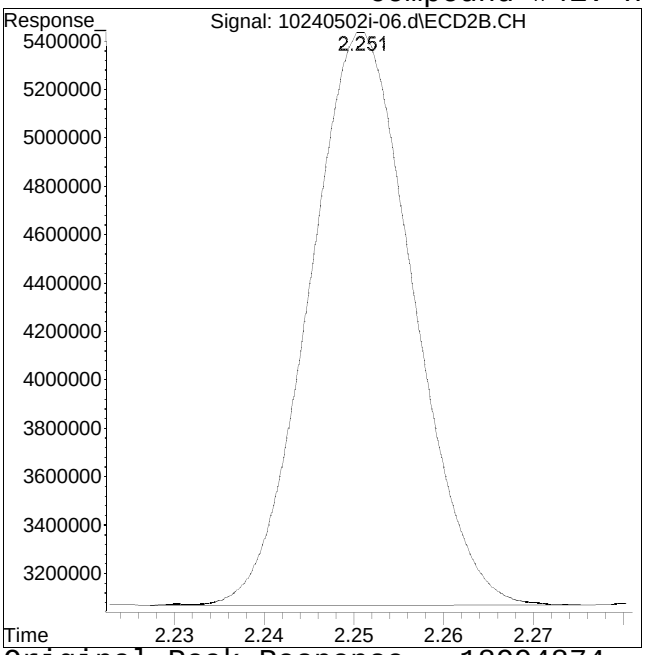
Manual Peak Response = 56407188 M4

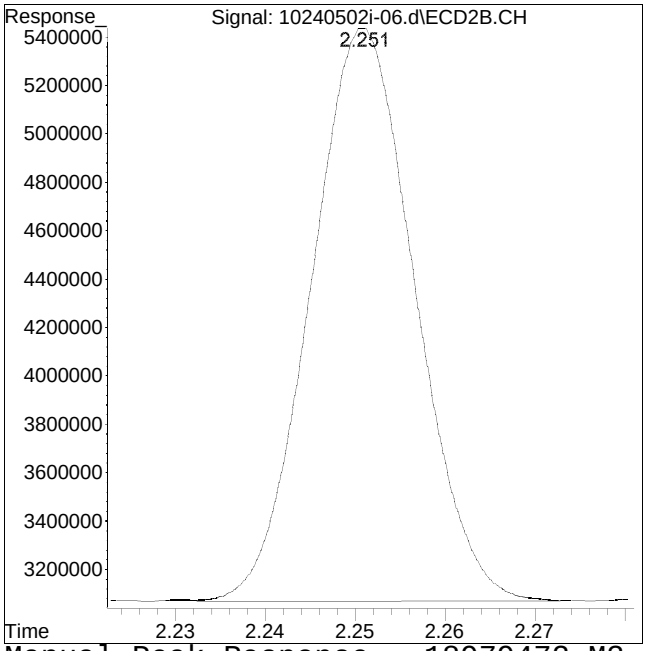
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #41: Hexachlorobenzene #2



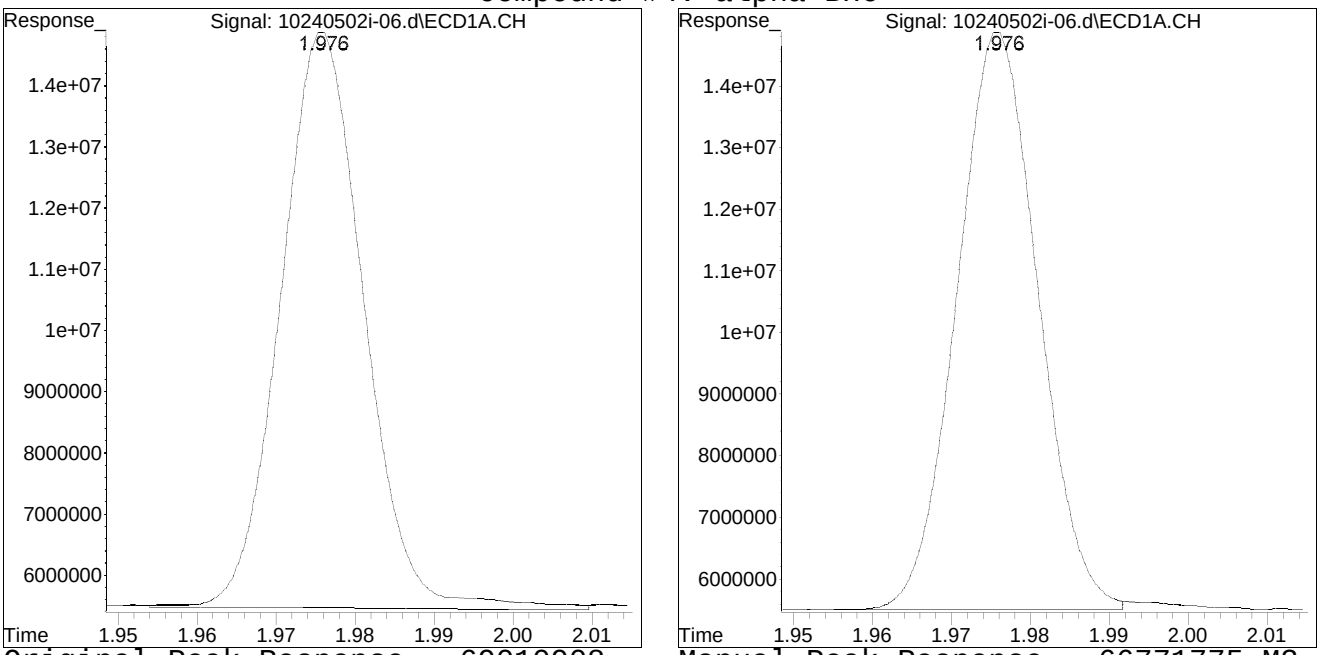


Original Peak Response = 18994874 Manual Peak Response = 18979472 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #4: alpha-BHC

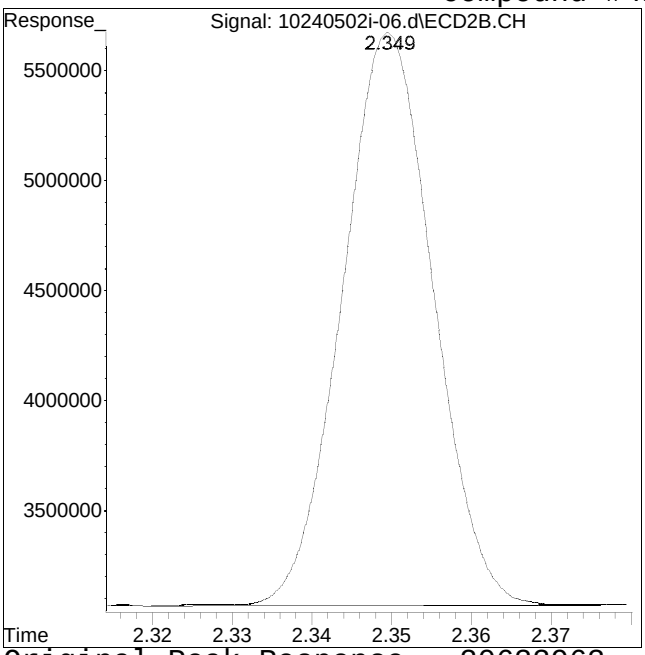


Original Peak Response = 69010908 Manual Peak Response = 66771775 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

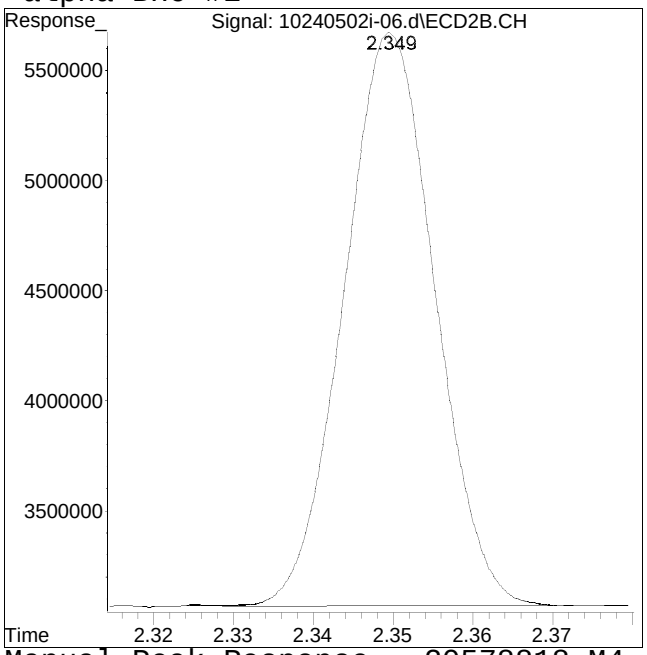
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #42: alpha-BHC #2



Original Peak Response = 20633963



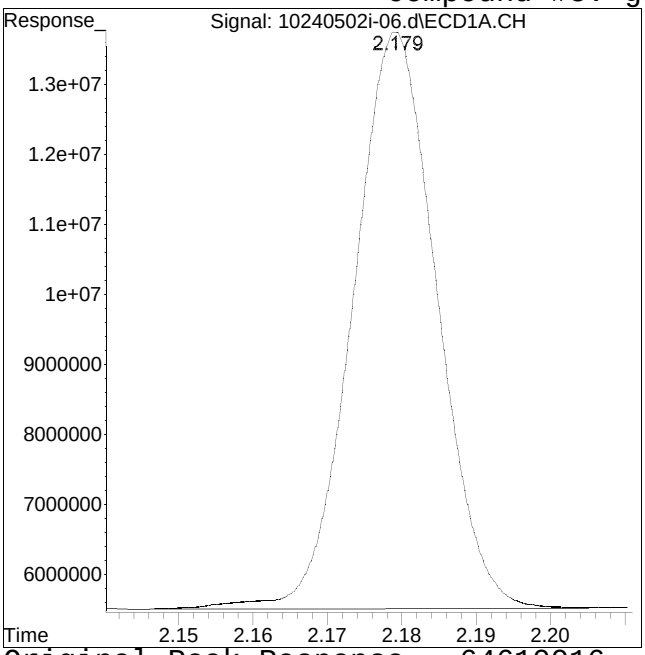
Manual Peak Response = 20578818 M4

M4 = Poor automated baseline construction.

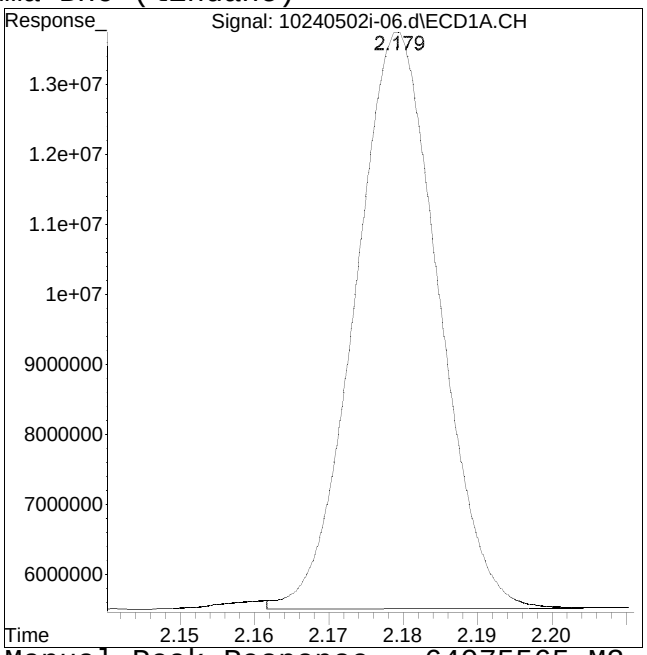
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 64610016



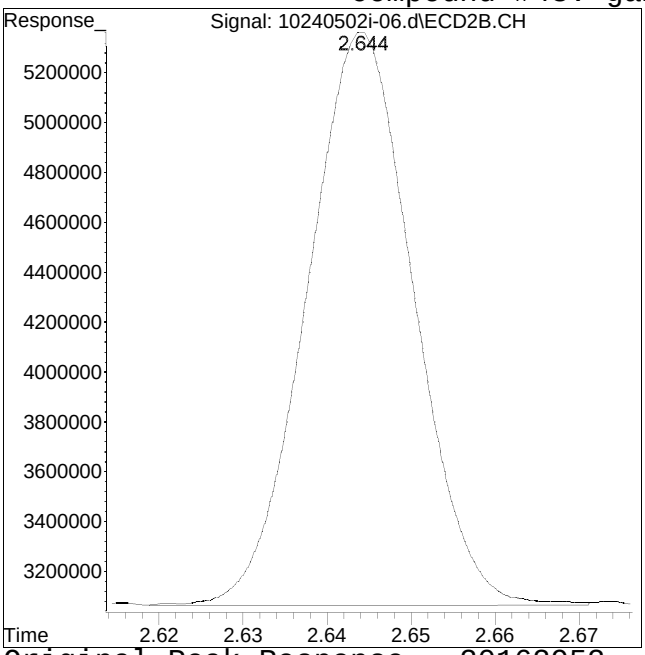
Manual Peak Response = 64075565 M3

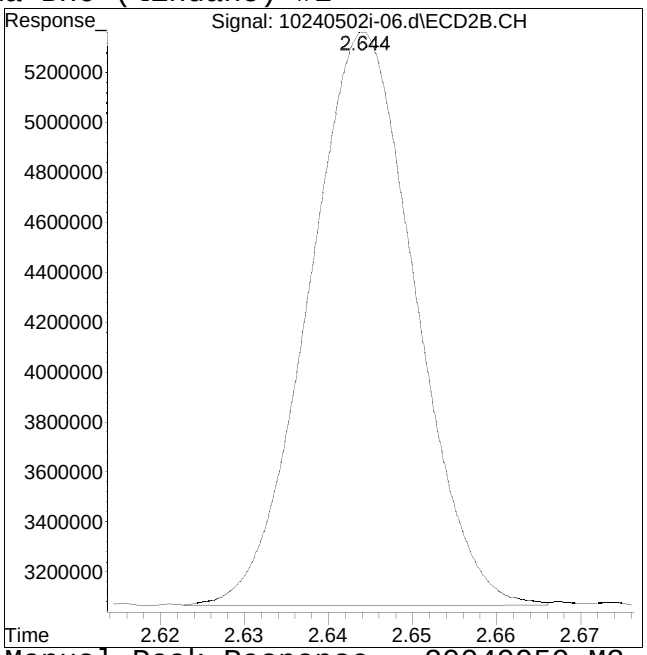
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #43: gamma-BHC (lindane) #2



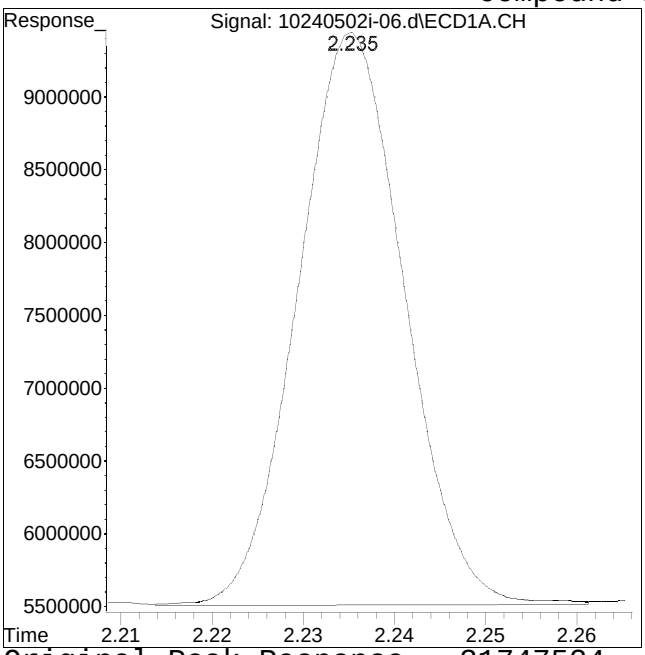


Original Peak Response = 20162952 Manual Peak Response = 20049959 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

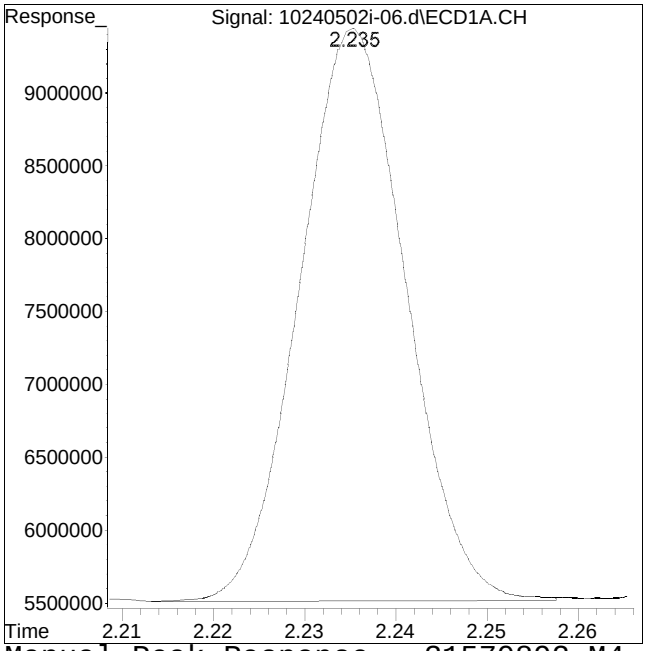
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #6: beta-BHC



Original Peak Response = 31747524



Manual Peak Response = 31570892 M4

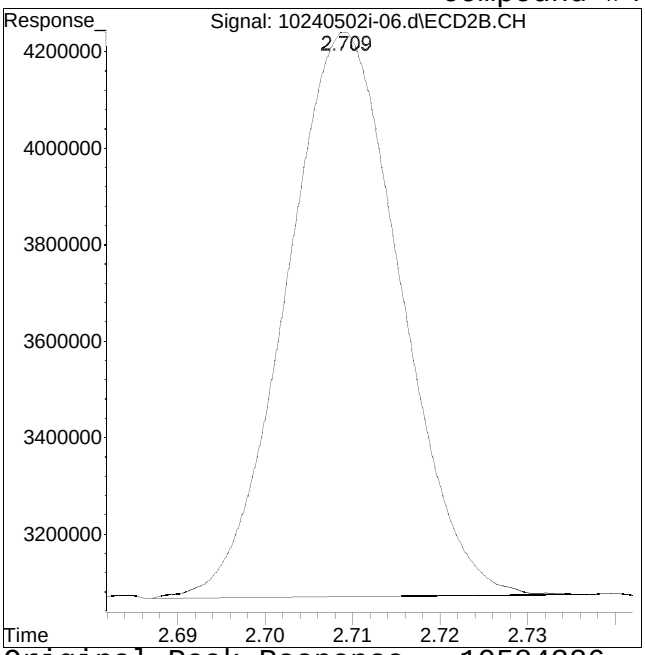
M4 = Poor automated baseline construction.

Manual Integration Report

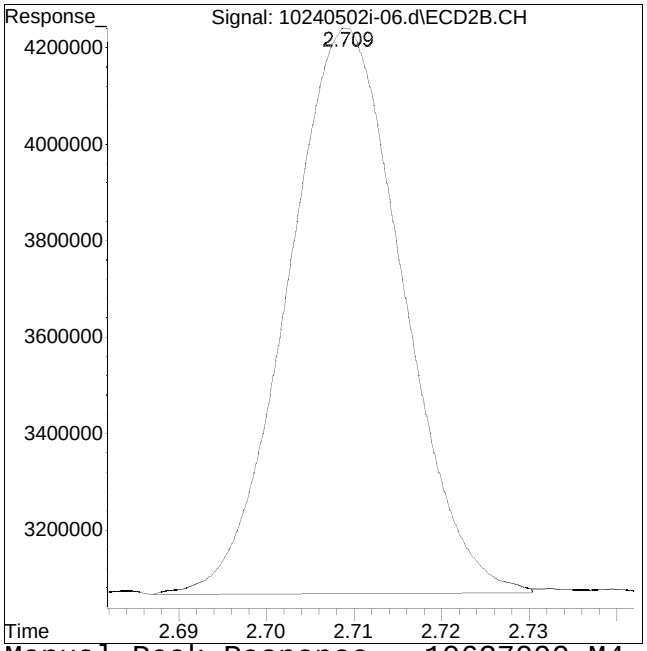
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #44: beta-BHC #2



Original Peak Response = 10584326



Manual Peak Response = 10637090 M4

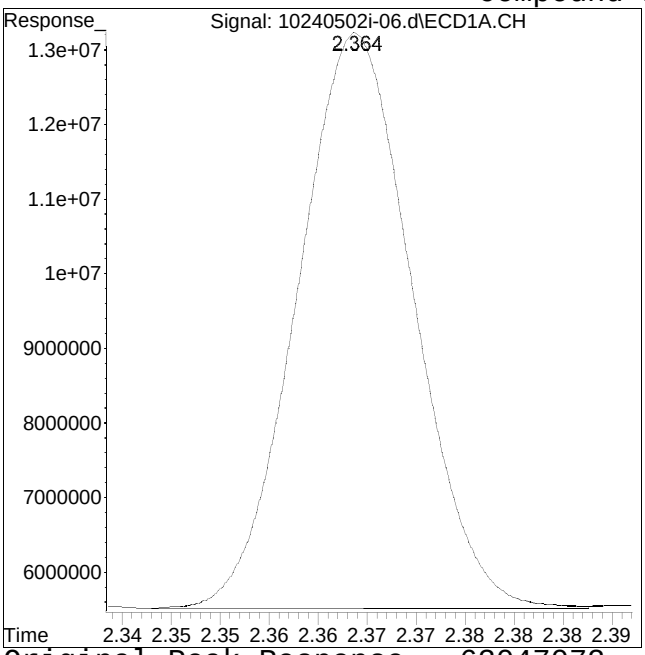
M4 = Poor automated baseline construction.

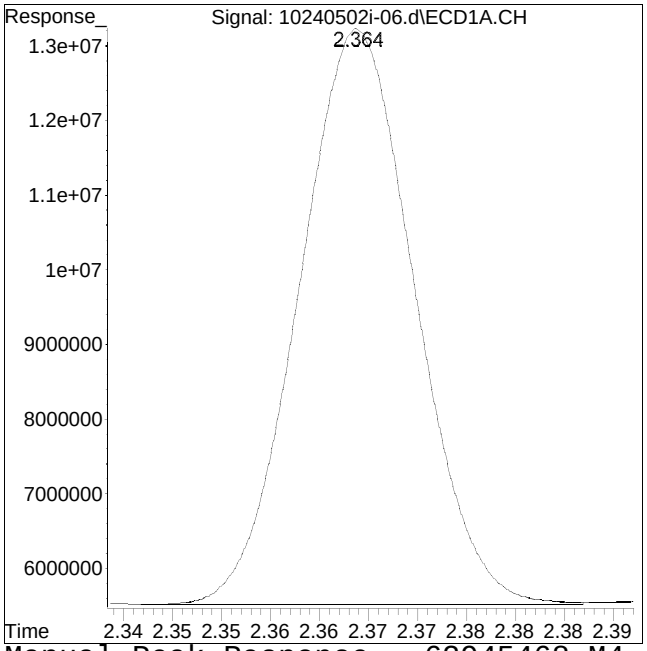
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #7: delta-BHC



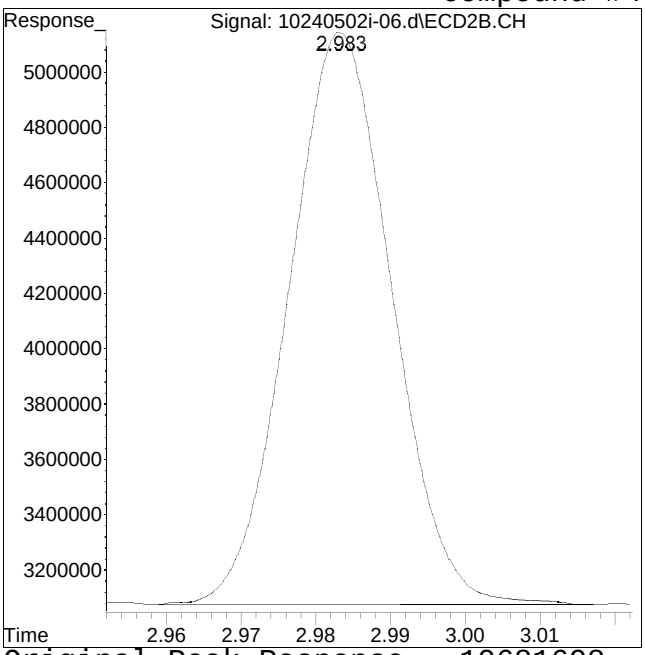


Original Peak Response = 63047072 Manual Peak Response = 62945468 M4
M4 = Poor automated baseline construction.

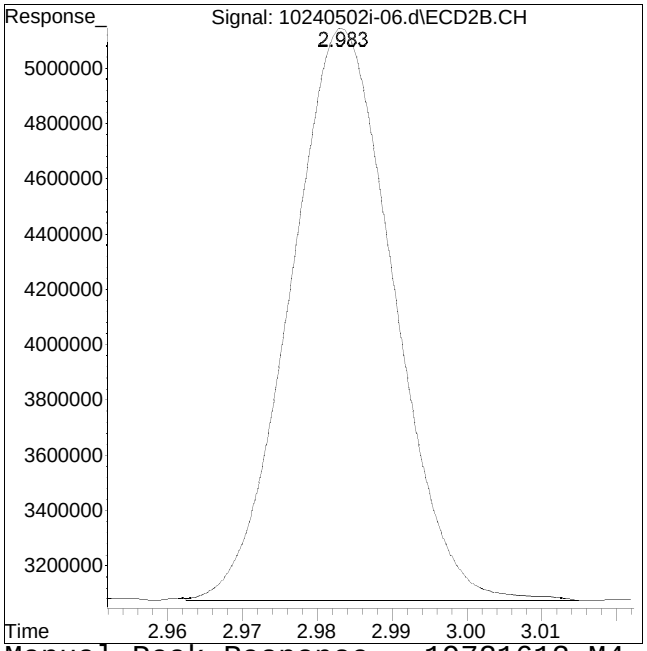
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #45: delta-BHC #2



Original Peak Response = 19681698



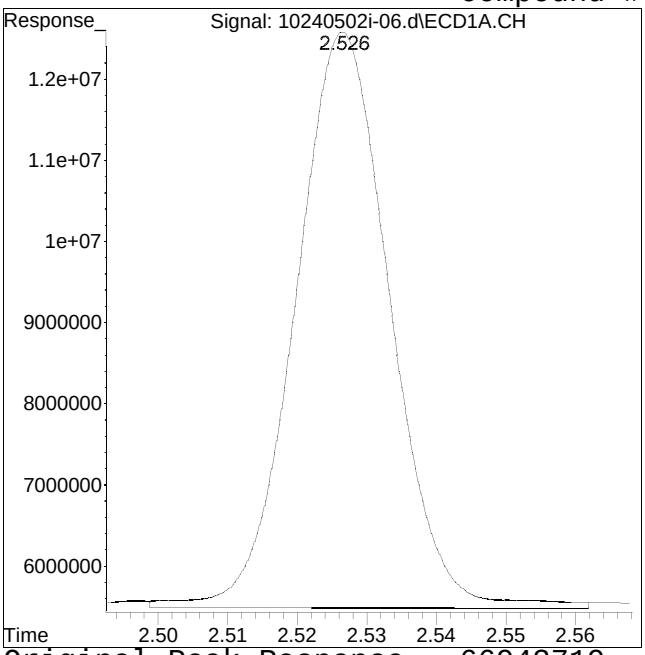
Manual Peak Response = 19721612 M4

M4 = Poor automated baseline construction.

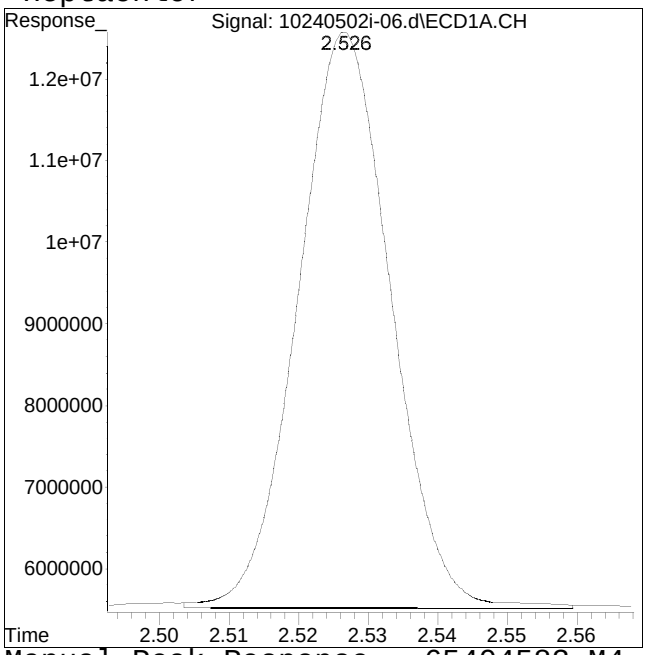
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #8: Heptachlor



Original Peak Response = 66943719



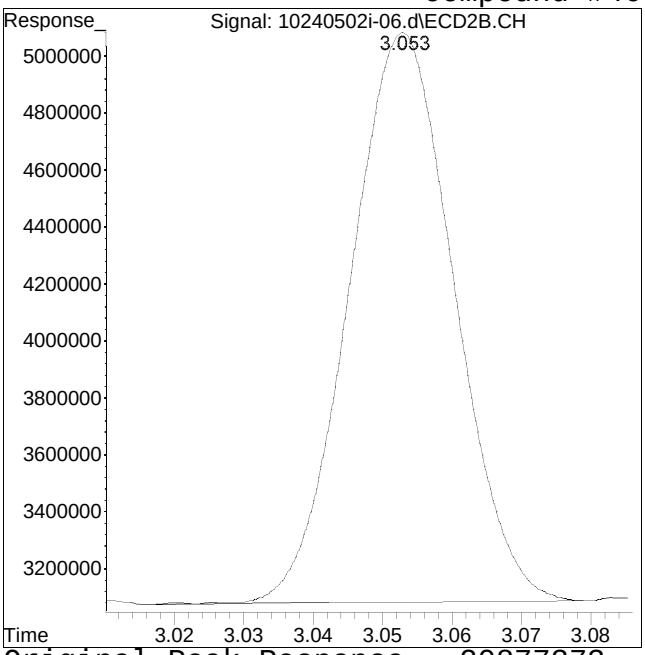
Manual Peak Response = 65404583 M4

M4 = Poor automated baseline construction.

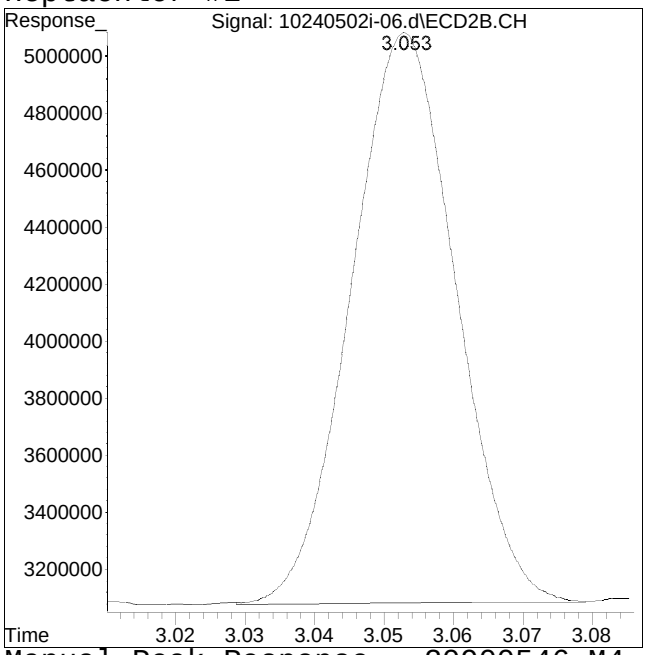
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #46: Heptachlor #2



Original Peak Response = 20877373

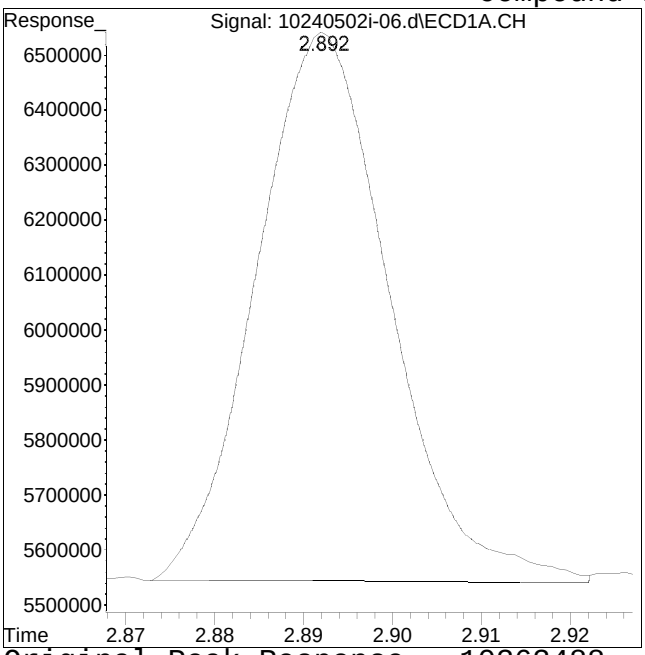


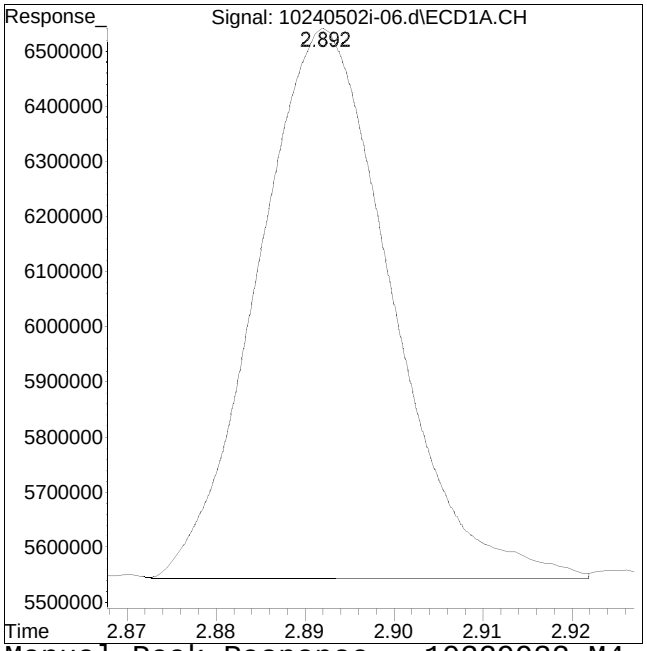
Manual Peak Response = 20900546 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #10: Alachlor



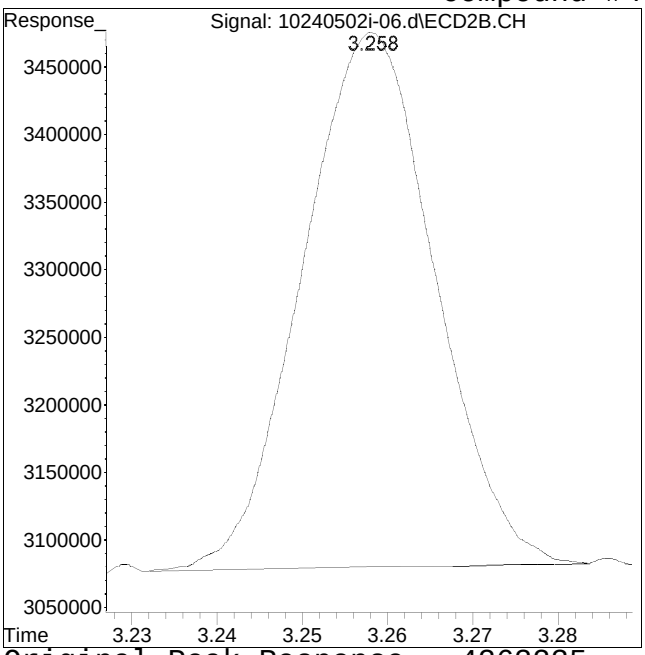


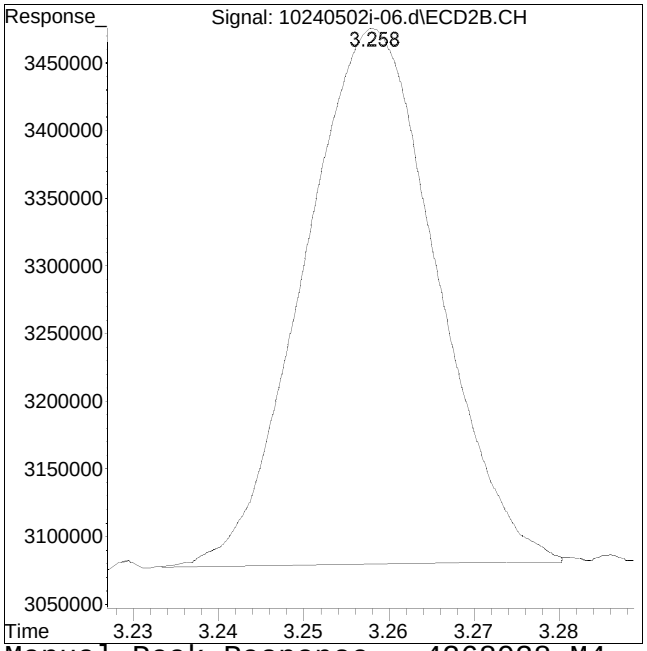
Original Peak Response = 10363488 Manual Peak Response = 10329932 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #48: Alachlor #2



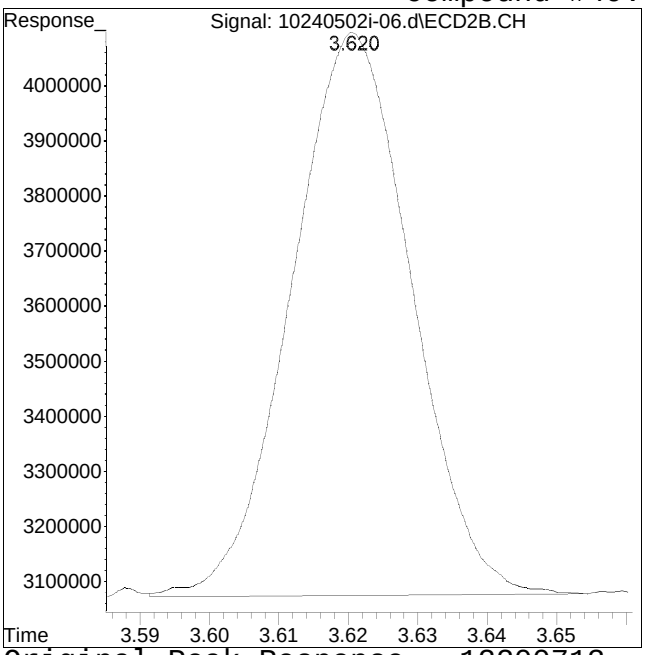


Original Peak Response = 4263235 Manual Peak Response = 4268038 M4
M4 = Poor automated baseline construction.

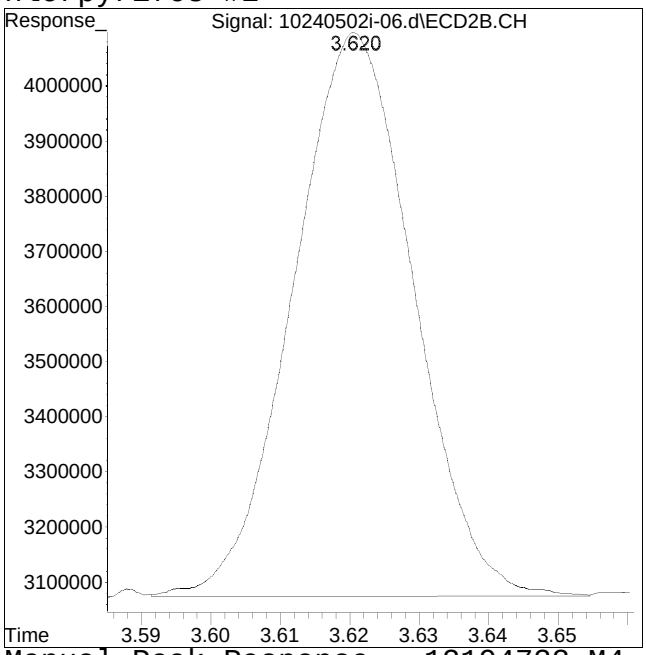
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 12200713



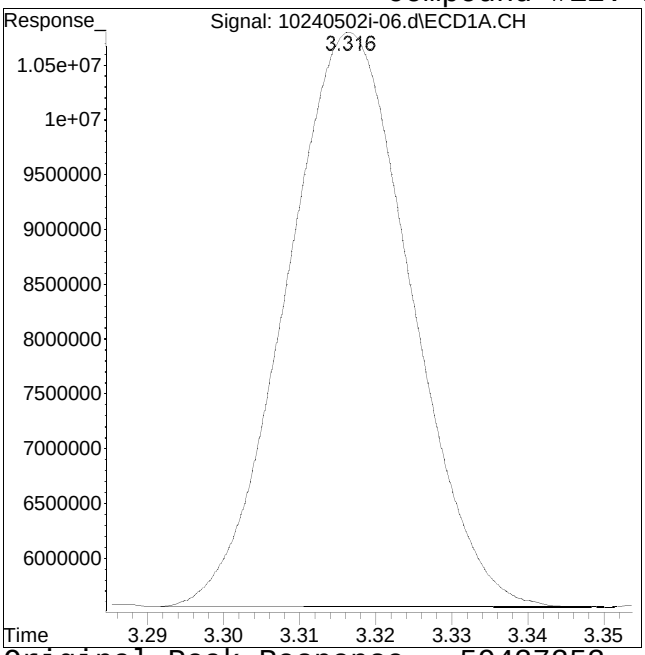
Manual Peak Response = 12194732 M4

M4 = Poor automated baseline construction.

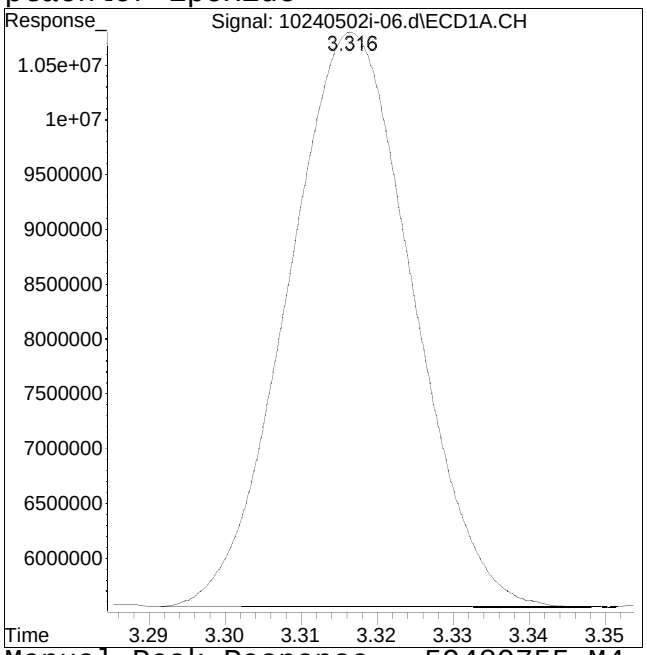
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 59437253



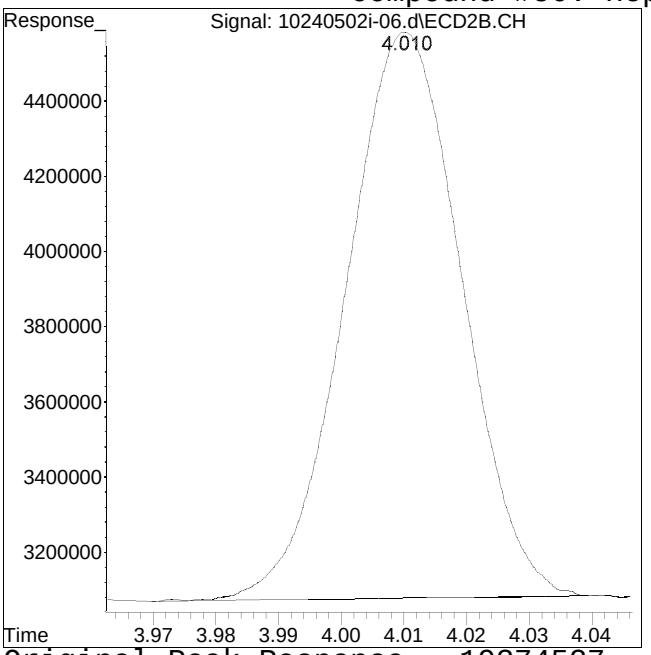
Manual Peak Response = 59480755 M4

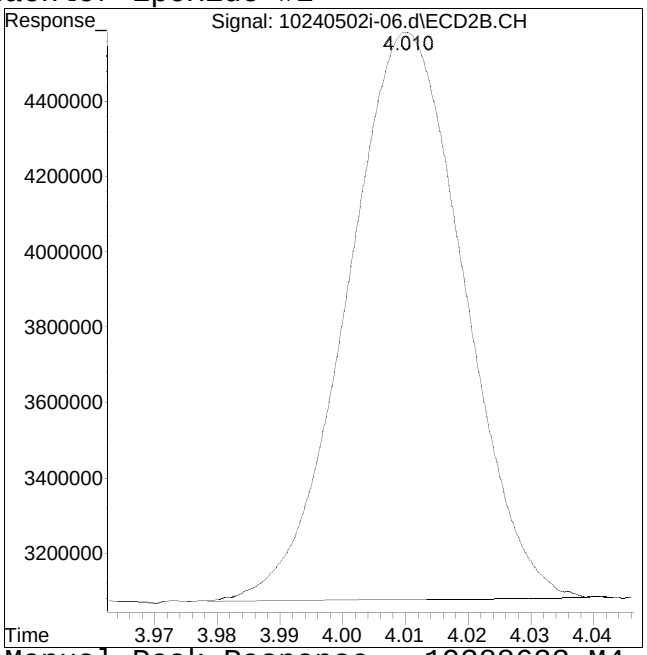
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #50: Heptachlor Epoxide #2





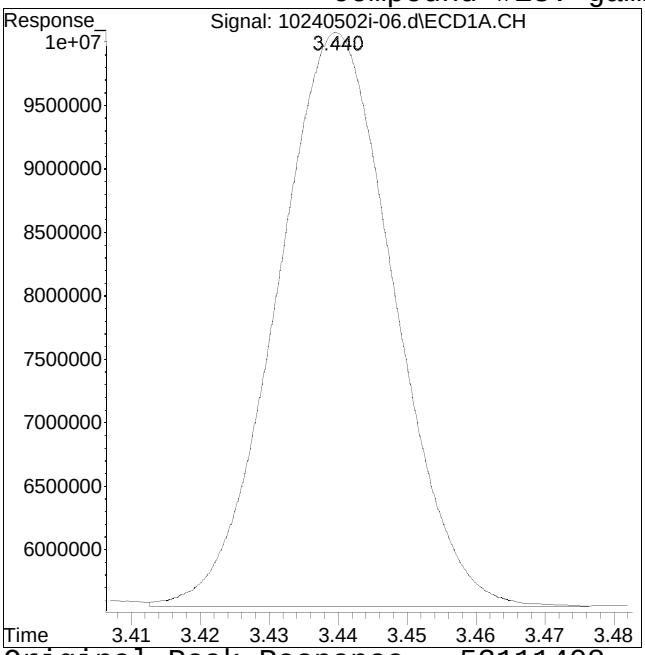
Original Peak Response = 19374527 Manual Peak Response = 19388633 M4
M4 = Poor automated baseline construction.

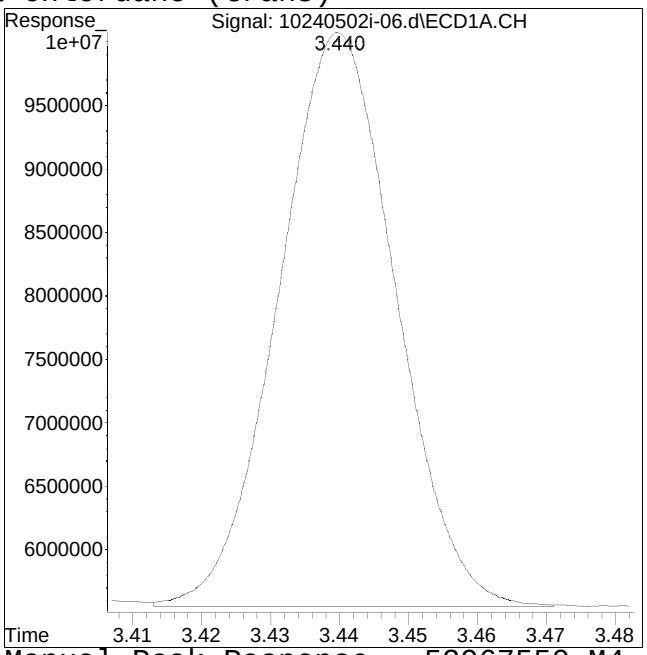
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #13: gamma-Chlordane (trans)



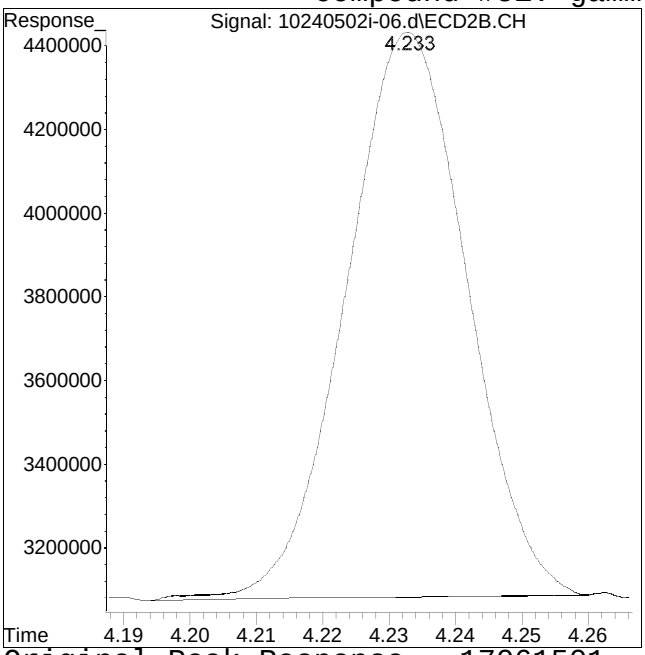


Original Peak Response = 53111408 Manual Peak Response = 52967550 M4
M4 = Poor automated baseline construction.

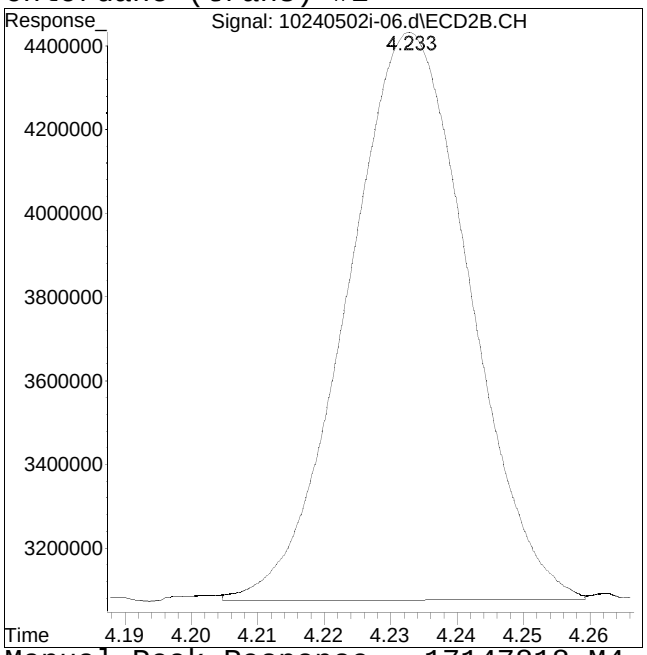
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 17061501



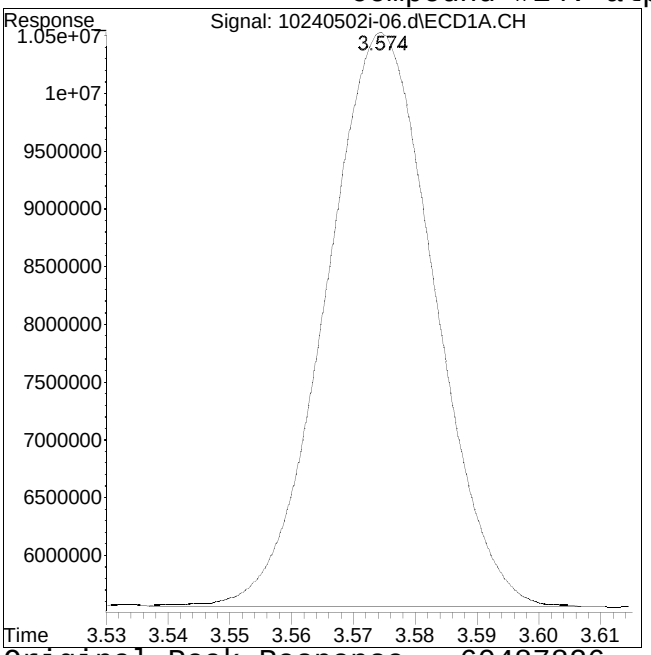
Manual Peak Response = 17147818 M4

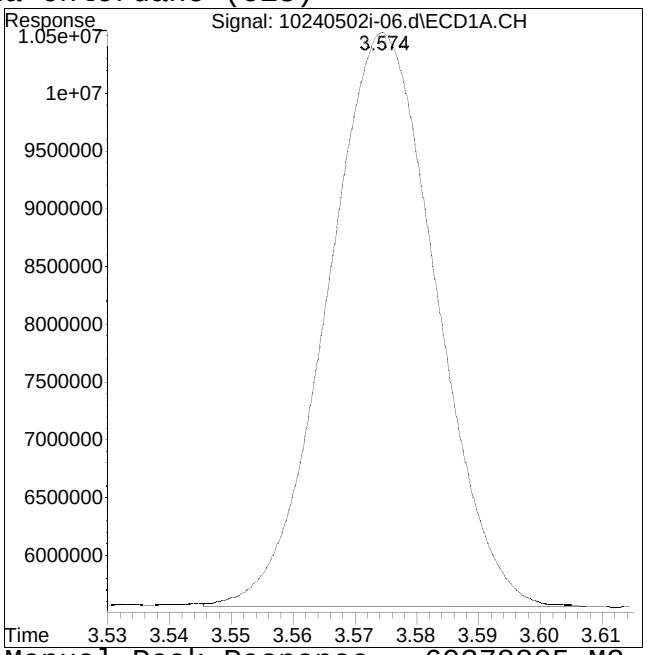
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #14: alpha-Chlordane (cis)





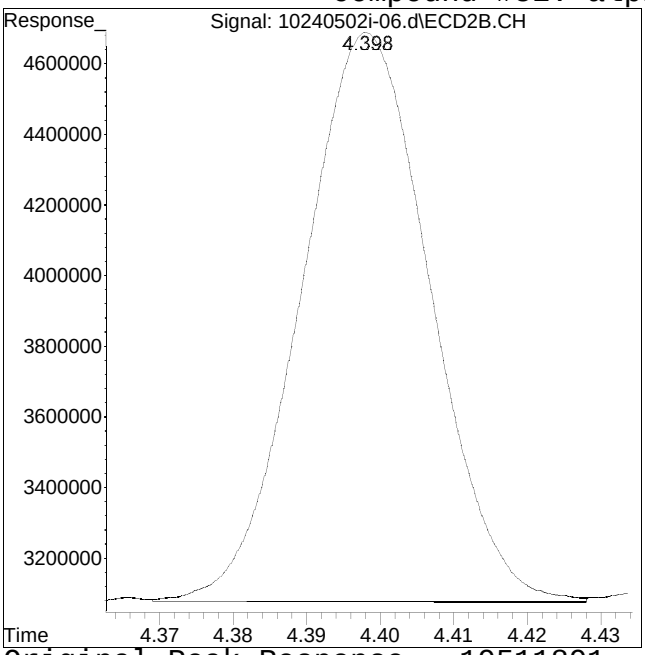
Original Peak Response = 60487826 Manual Peak Response = 60378805 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

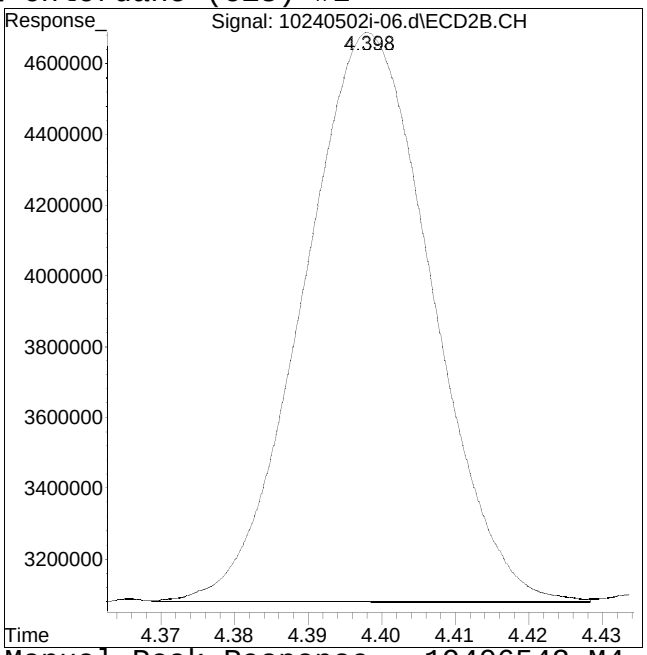
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 19511891



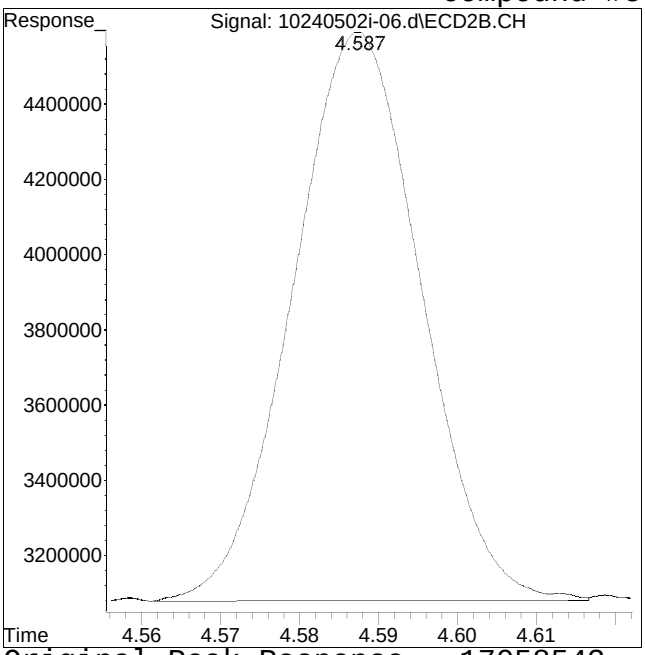
Manual Peak Response = 19406542 M4

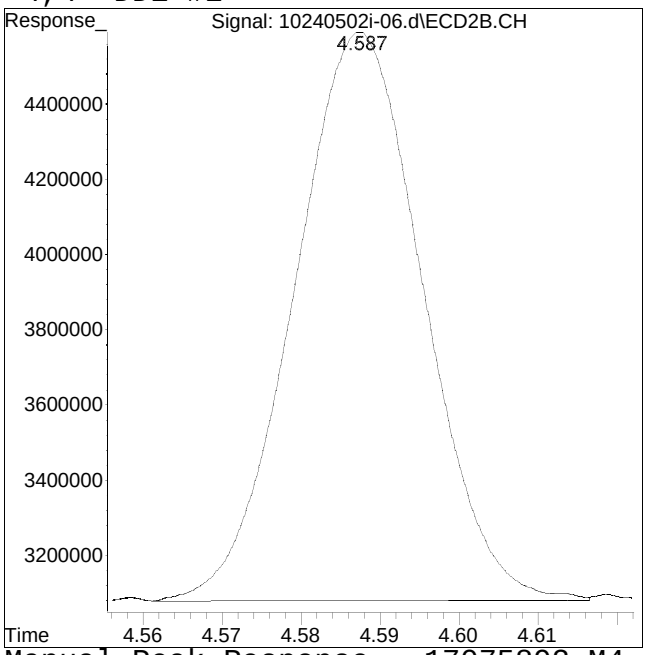
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #53: 4,4'-DDE #2



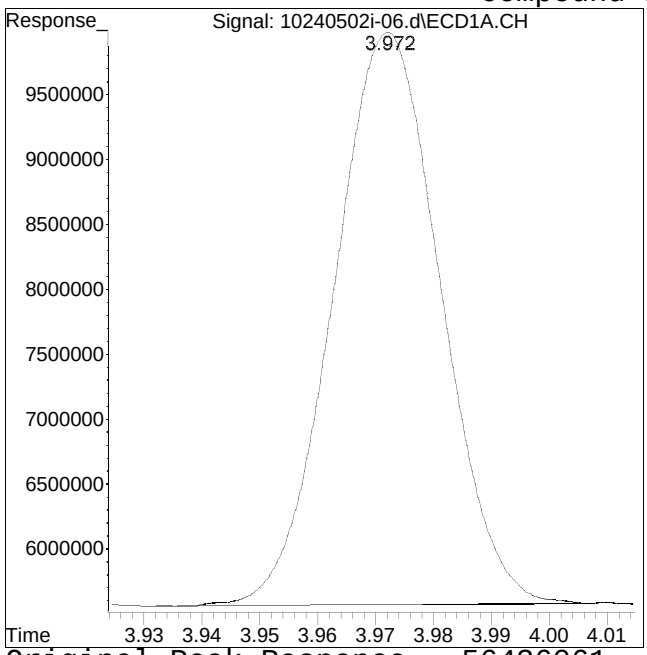


Original Peak Response = 17058543 Manual Peak Response = 17075892 M4
M4 = Poor automated baseline construction.

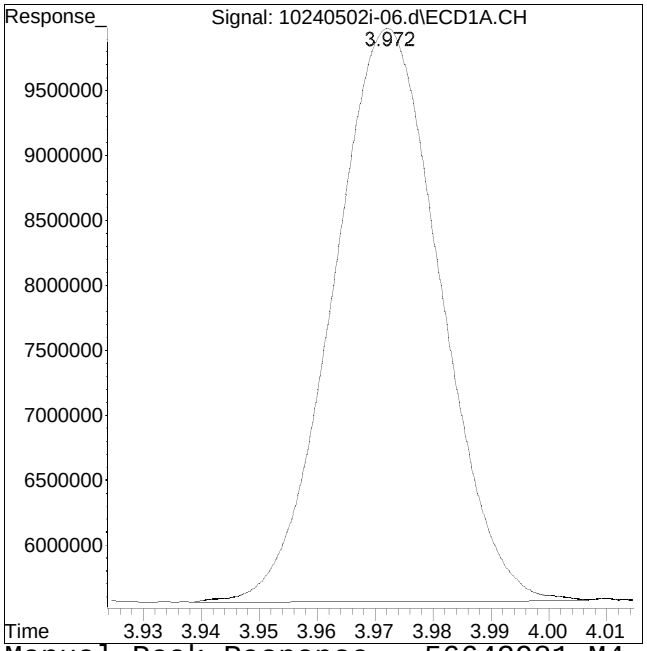
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #17: Dieldrin



Original Peak Response = 56436061



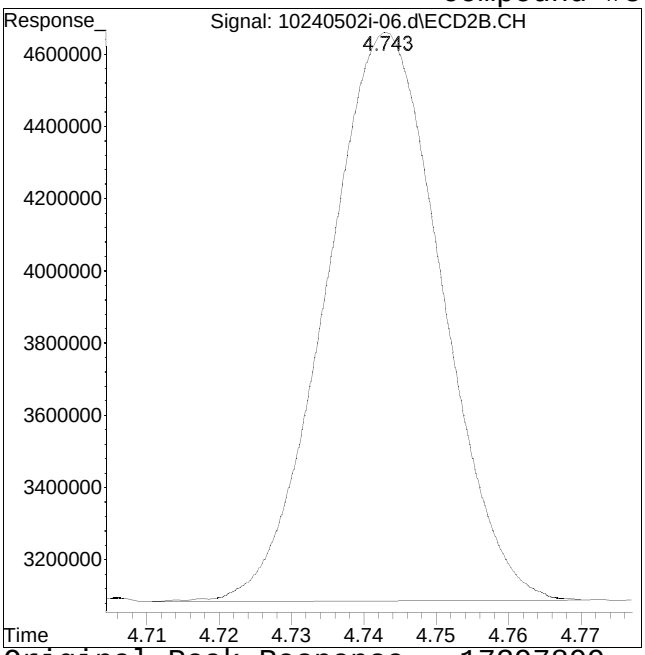
Manual Peak Response = 56642981 M4

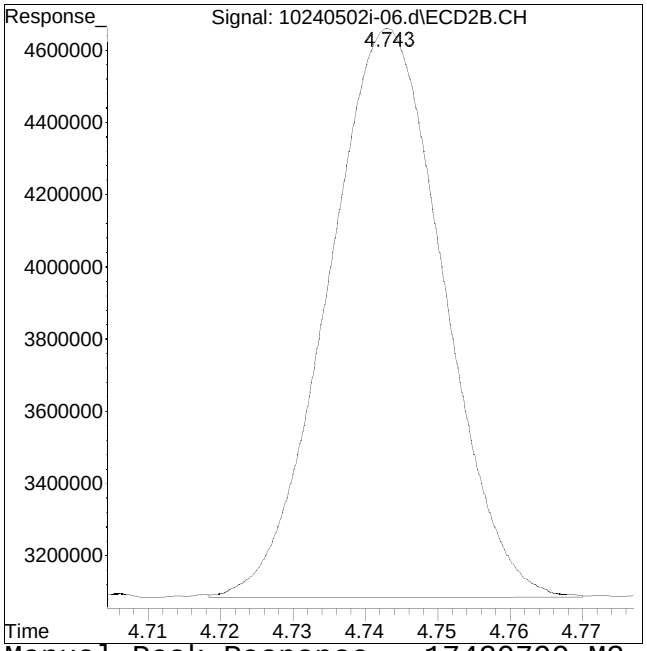
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #55: Dieldrin #2



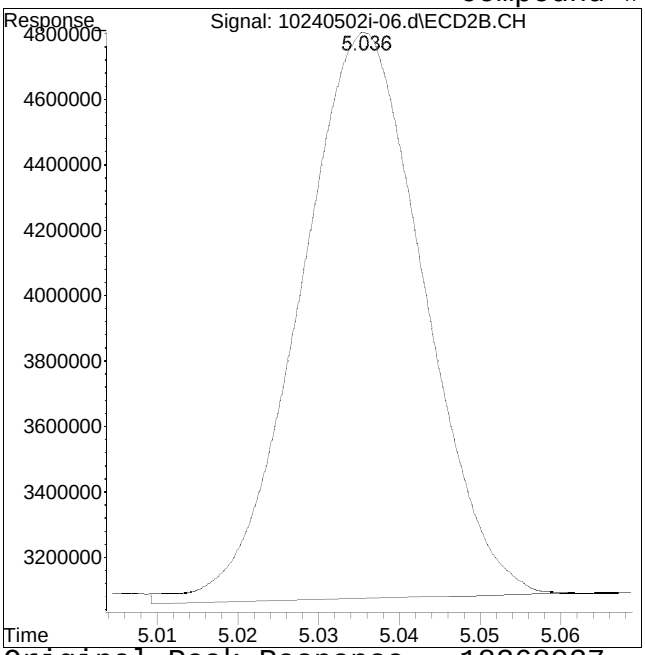


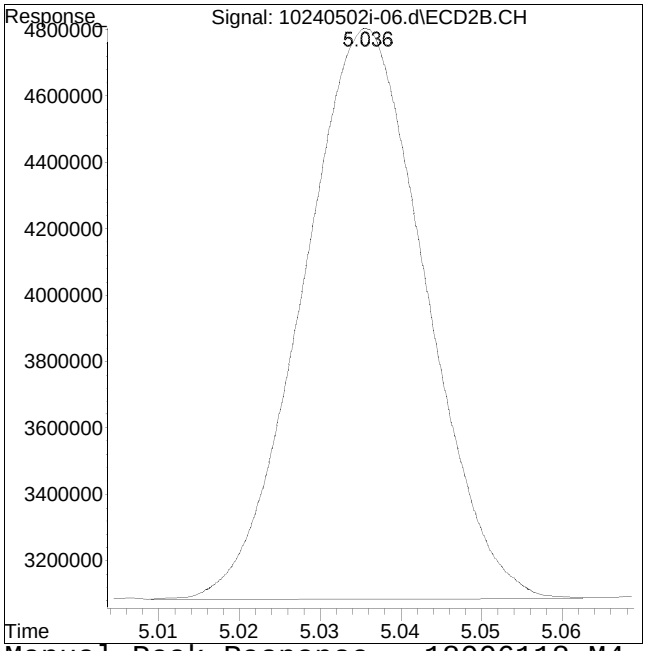
Original Peak Response = 17397899 Manual Peak Response = 17430799 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #56: Endrin #2



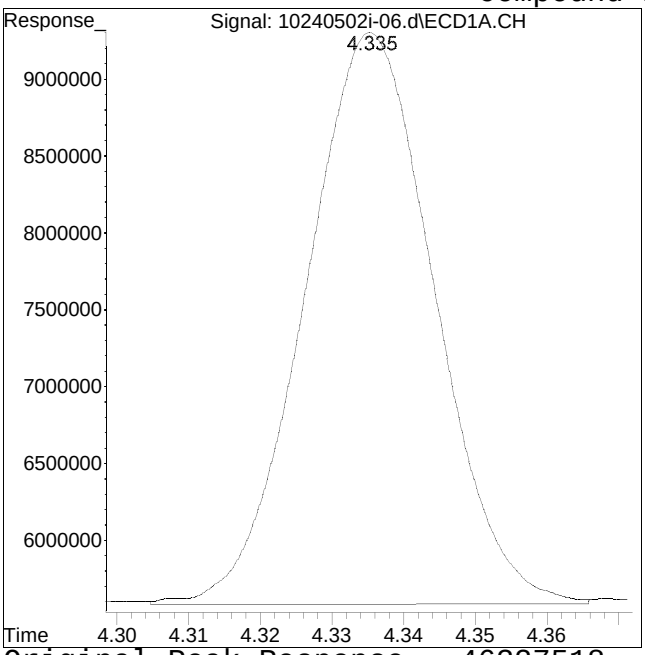


Original Peak Response = 18368937 Manual Peak Response = 18006118 M4
M4 = Poor automated baseline construction.

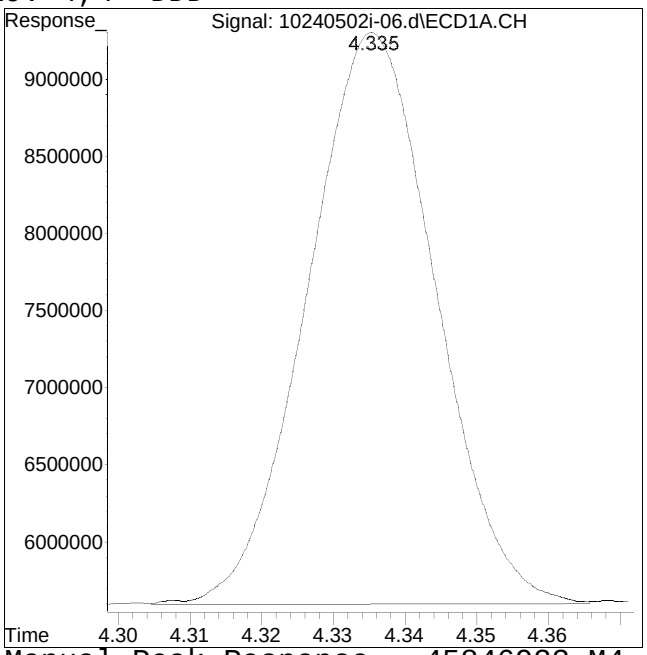
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #19: 4,4'-DDD



Original Peak Response = 46327518



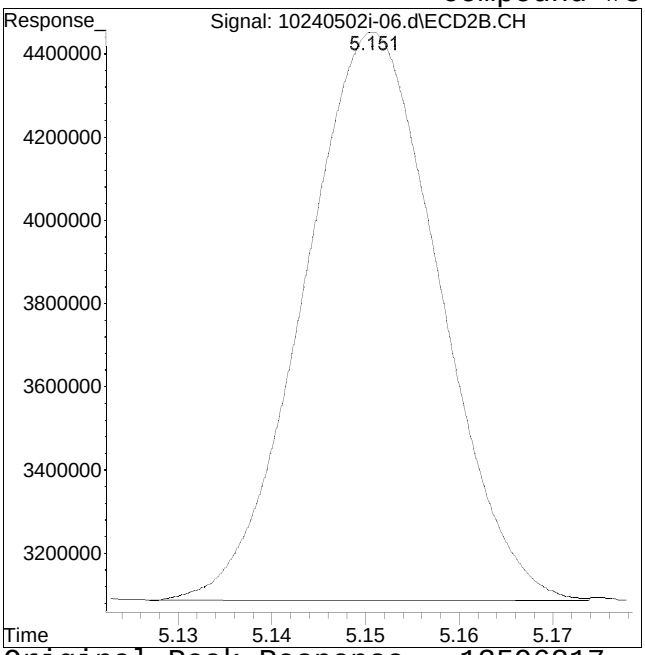
Manual Peak Response = 45846933 M4

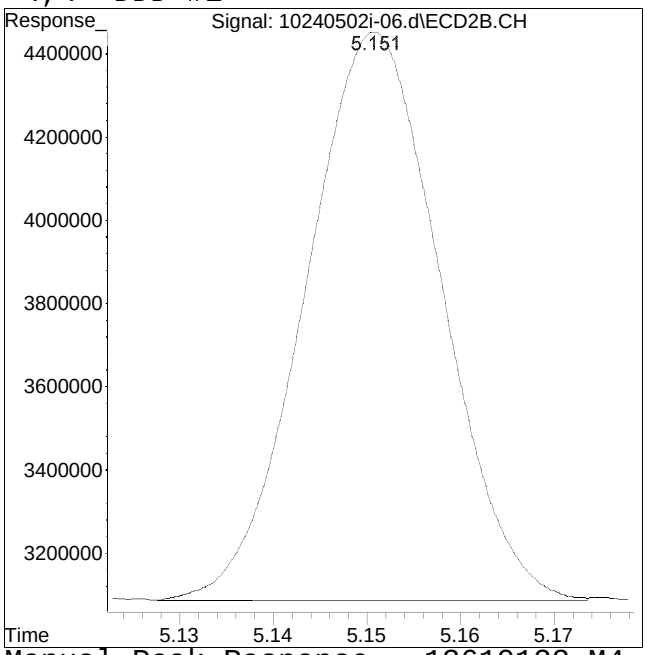
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #57: 4,4'-DDD #2



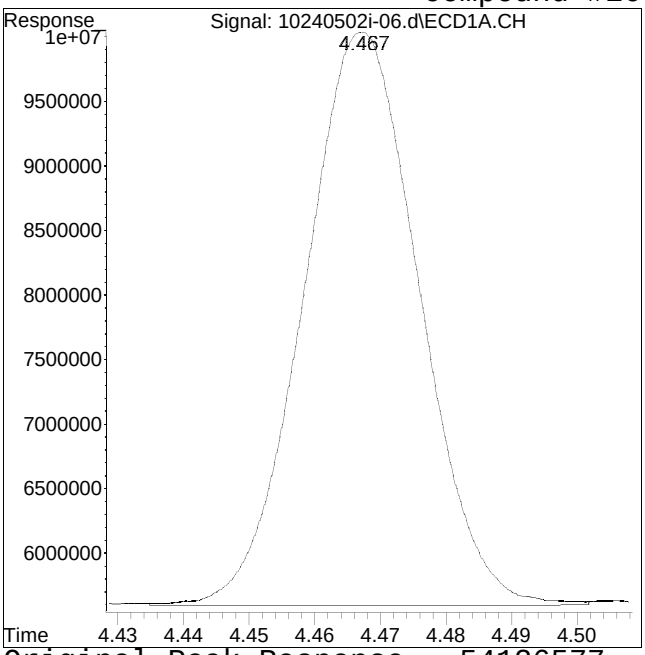


Original Peak Response = 13596217 Manual Peak Response = 13610122 M4
M4 = Poor automated baseline construction.

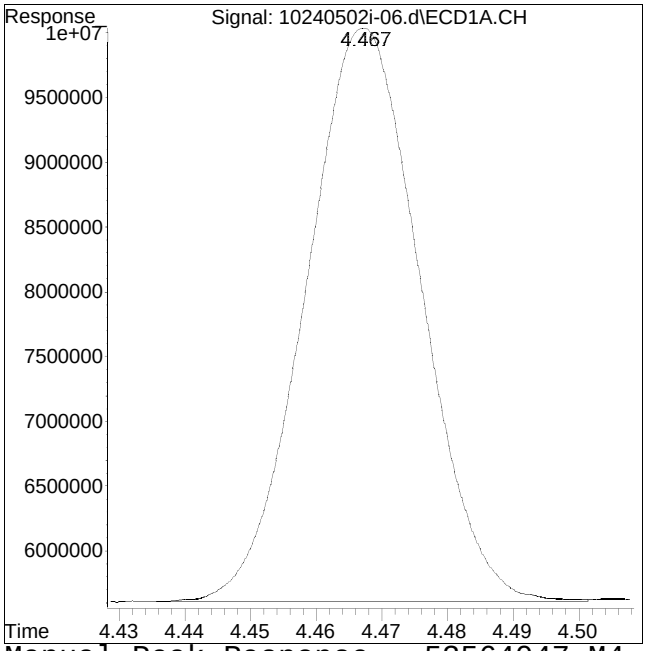
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #20: Endosulfan II



Original Peak Response = 54126577



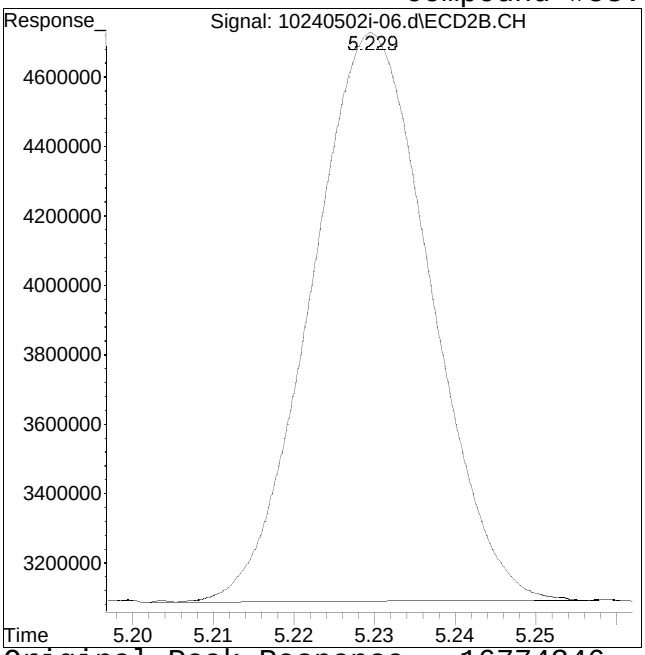
Manual Peak Response = 53564047 M4
M4 = Poor automated baseline construction.

Manual Integration Report

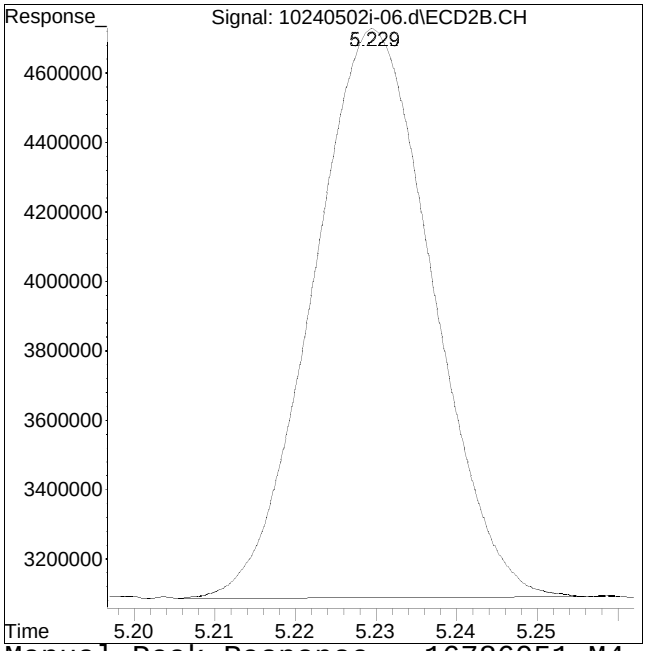
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #58: Endosulfan II #2



Original Peak Response = 16774346



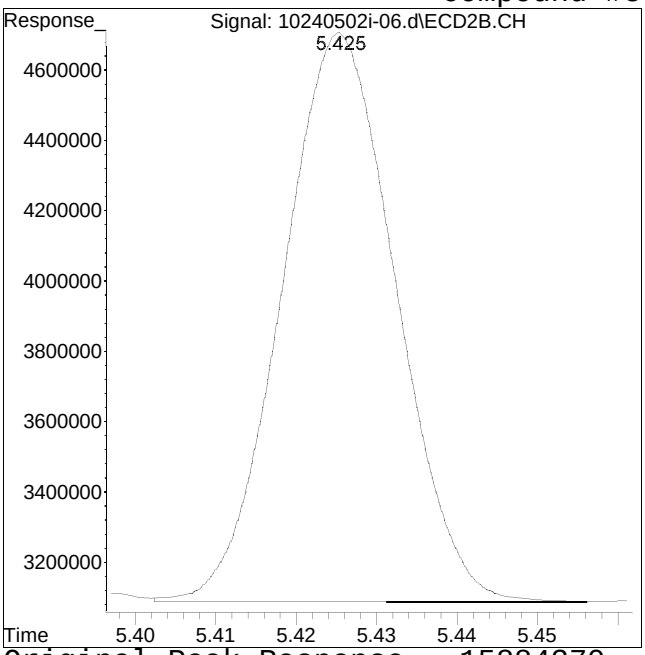
Manual Peak Response = 16786051 M4

M4 = Poor automated baseline construction.

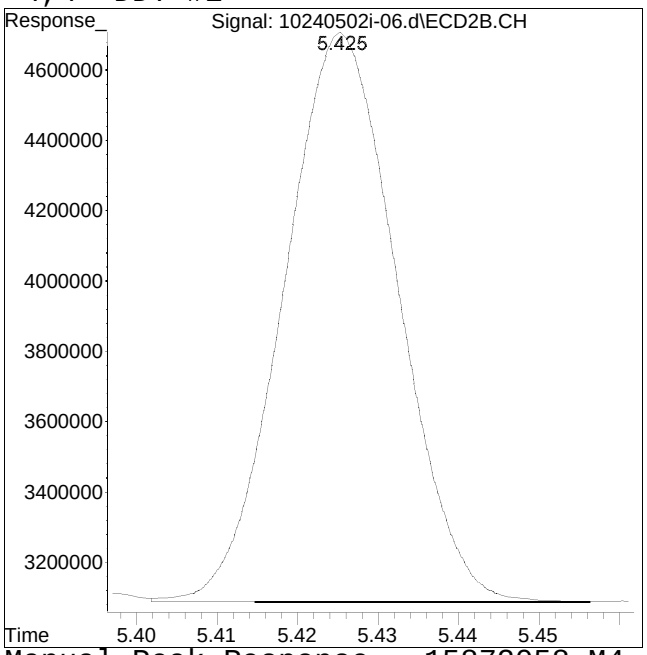
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 15884370

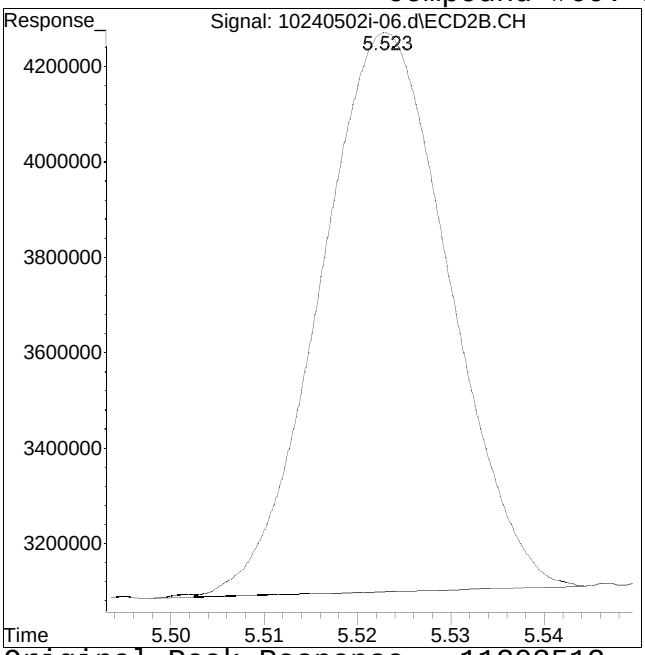


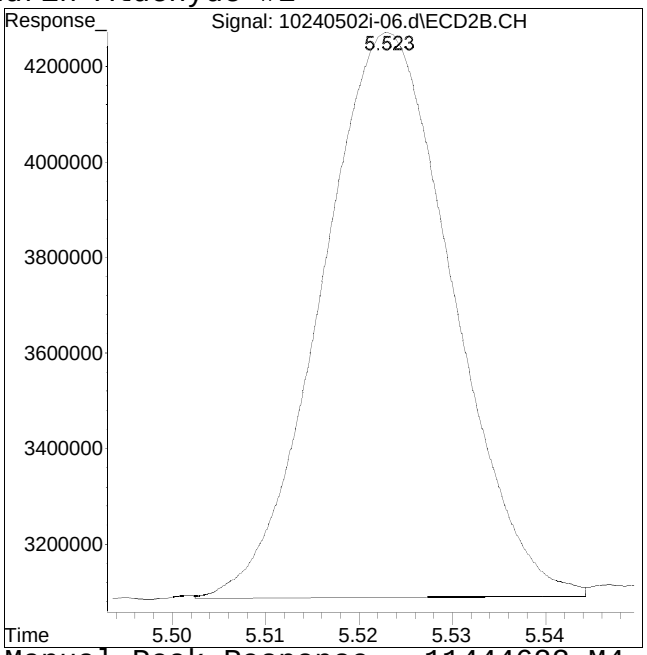
Manual Peak Response = 15872058 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #60: Endrin Aldehyde #2



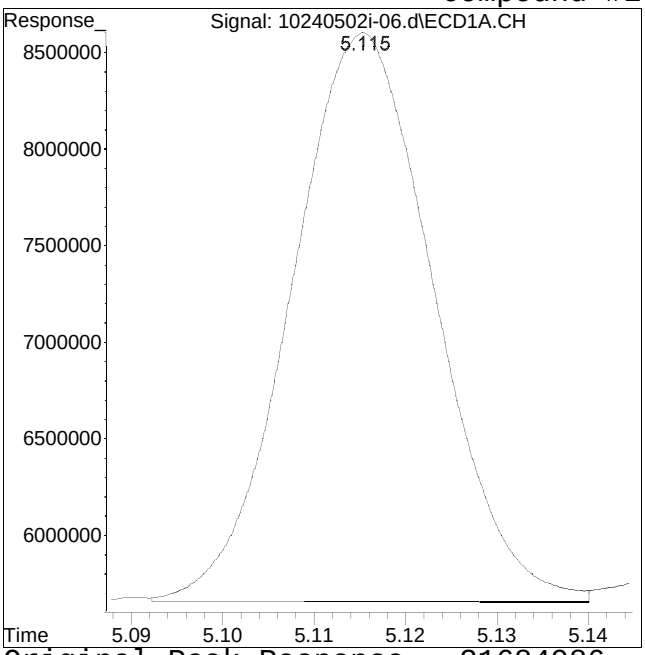


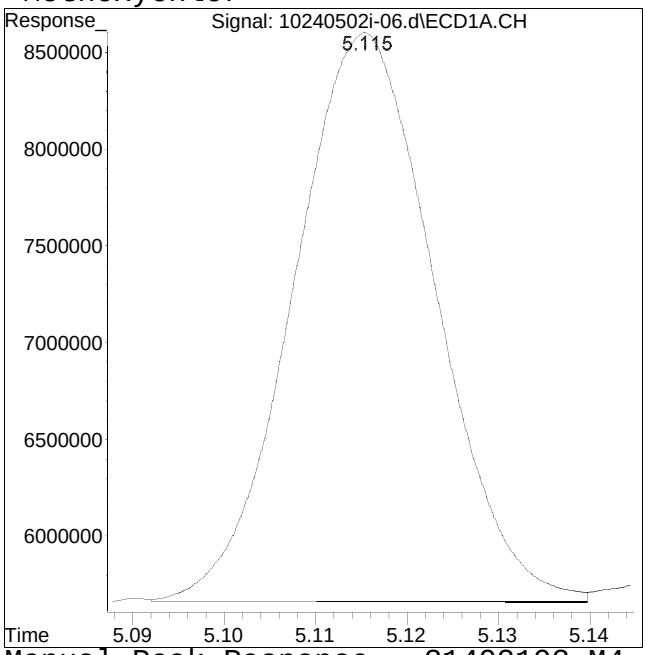
Original Peak Response = 11203512 Manual Peak Response = 11444622 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #23: Methoxychlor



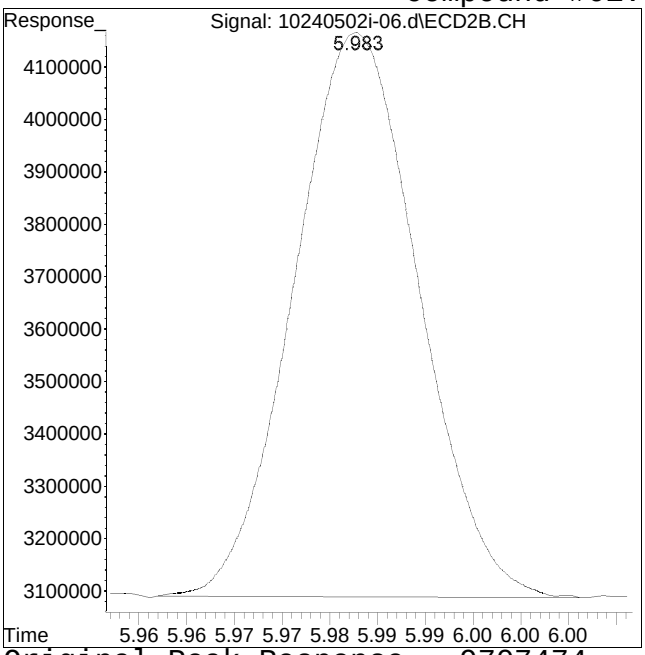


Original Peak Response = 31684986 Manual Peak Response = 31492192 M4
M4 = Poor automated baseline construction.

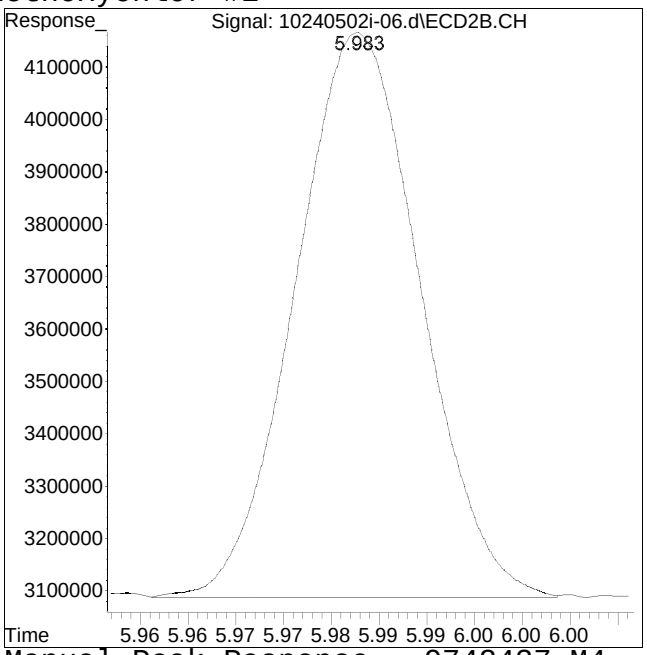
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #61: Methoxychlor #2



Original Peak Response = 9707474



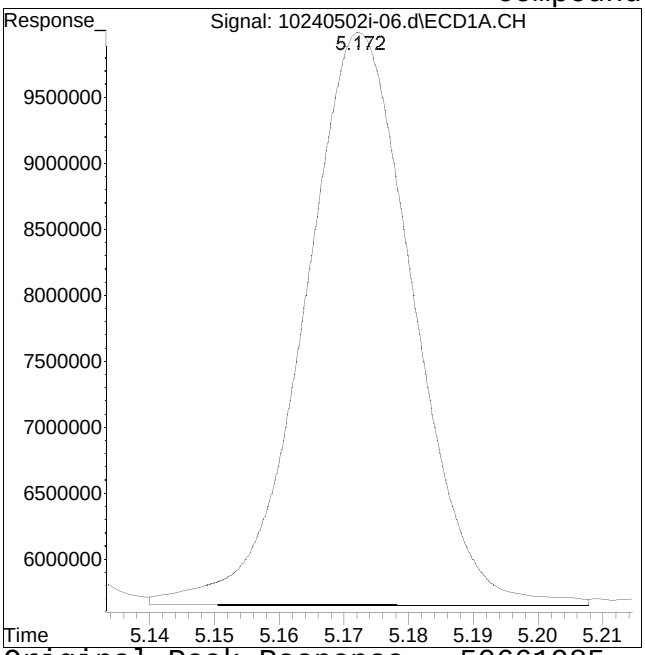
Manual Peak Response = 9742437 M4

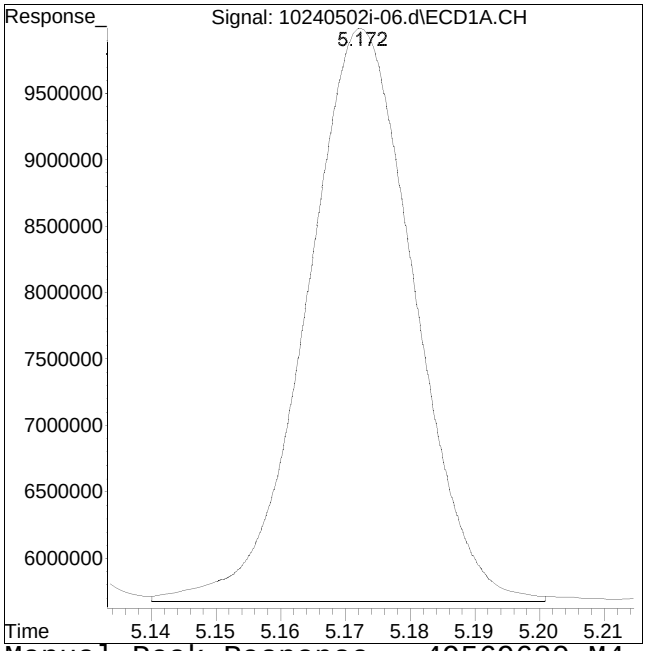
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #24: Mirex



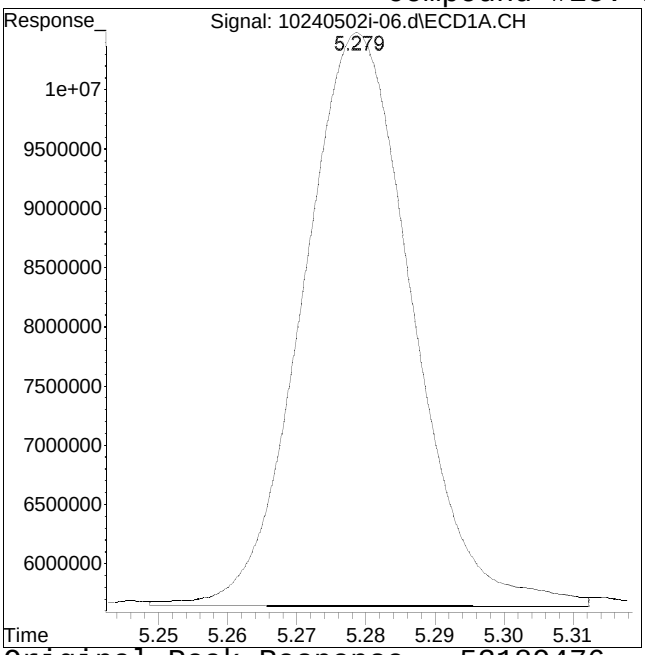


Original Peak Response = 50661985 Manual Peak Response = 49569680 M4
M4 = Poor automated baseline construction.

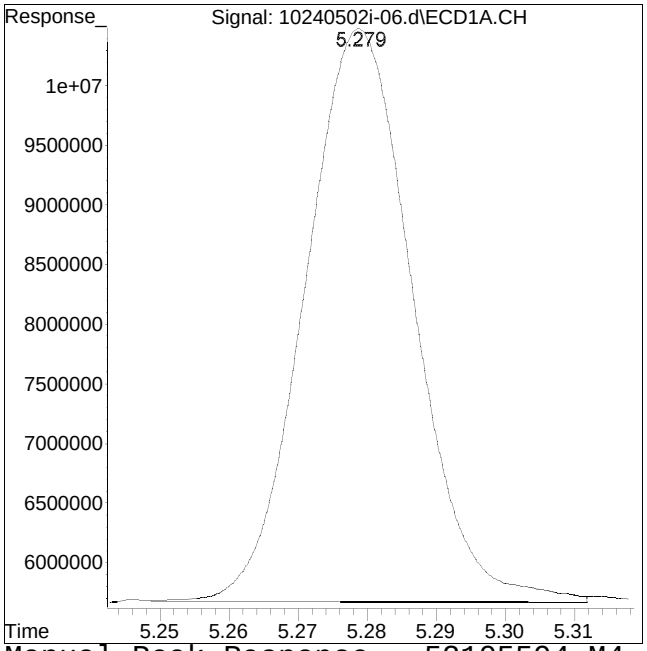
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 53189476



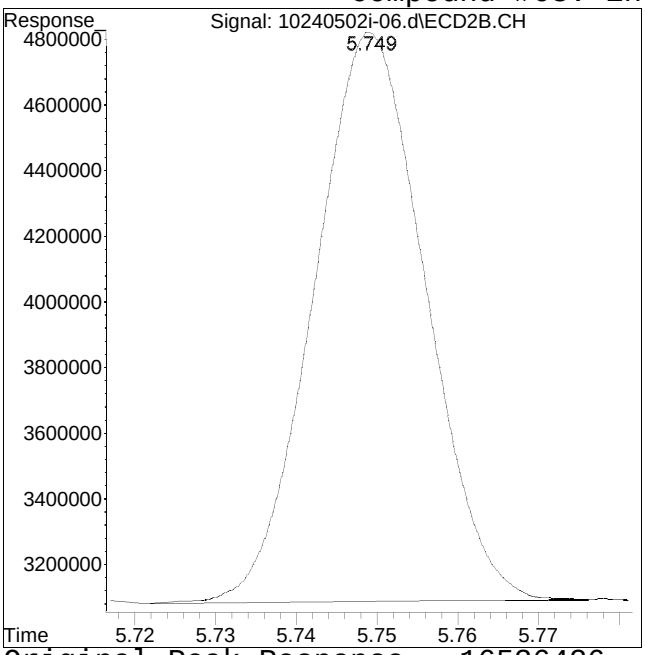
Manual Peak Response = 52105594 M4

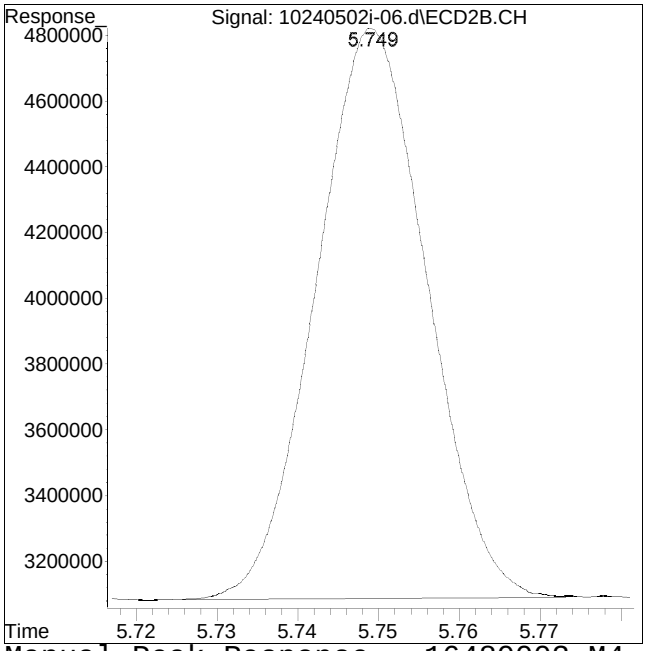
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #63: Endosulfan Sulfate #2



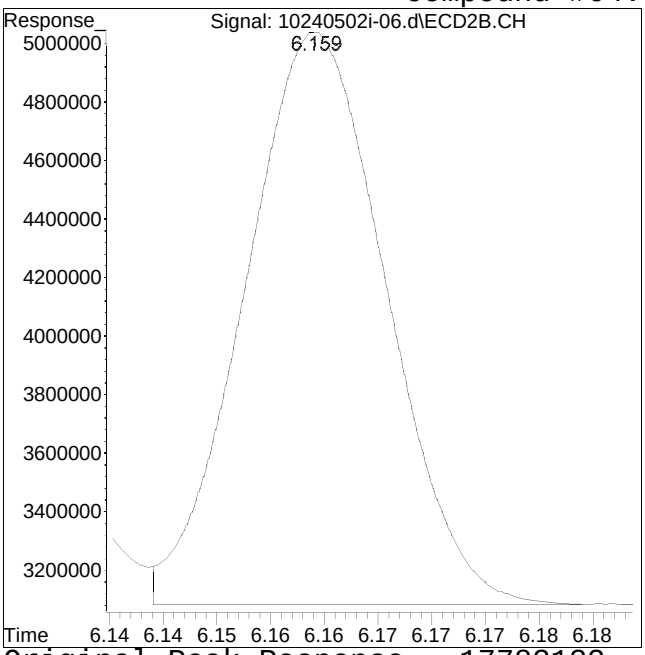


Original Peak Response = 16536426 Manual Peak Response = 16480003 M4
M4 = Poor automated baseline construction.

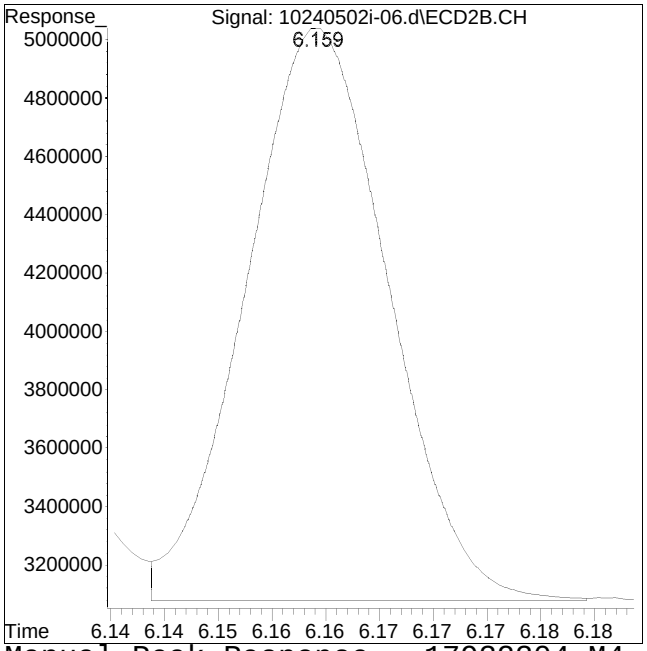
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 17783132



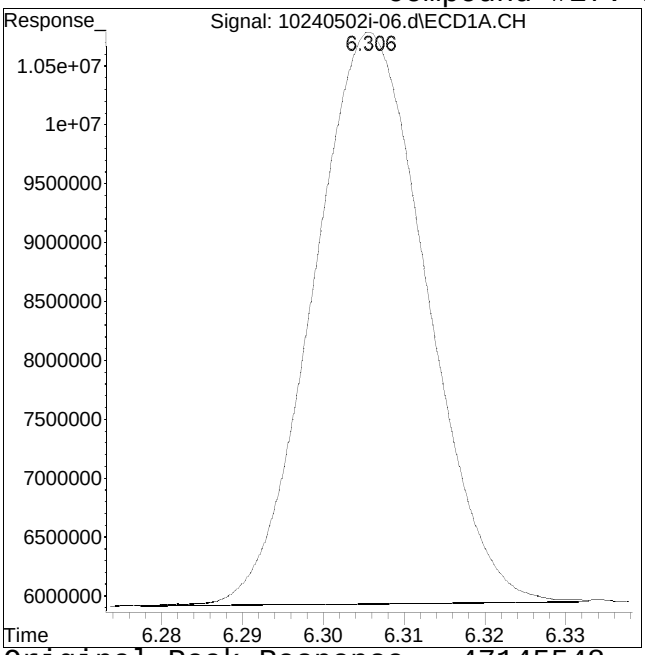
Manual Peak Response = 17932304 M4

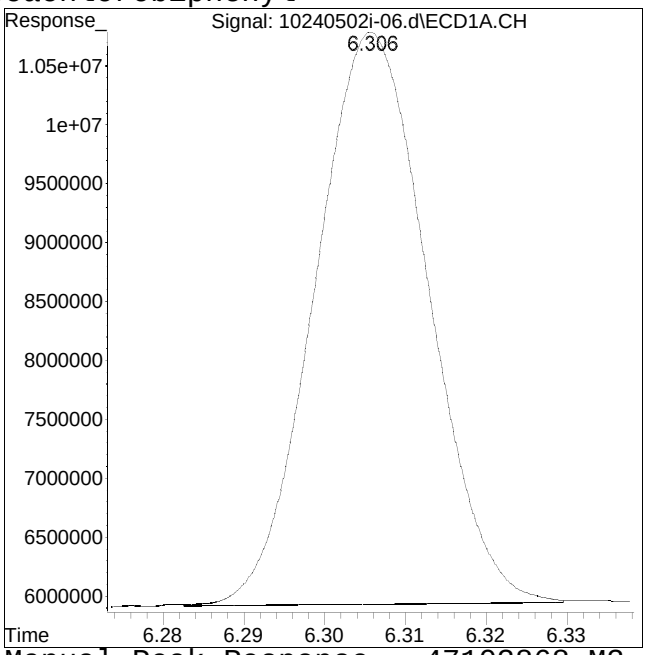
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #27: Decachlorobiphenyl



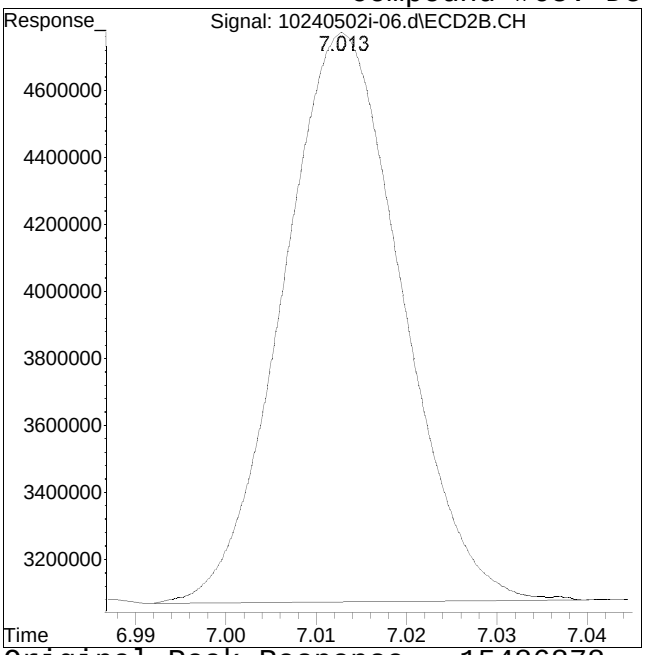


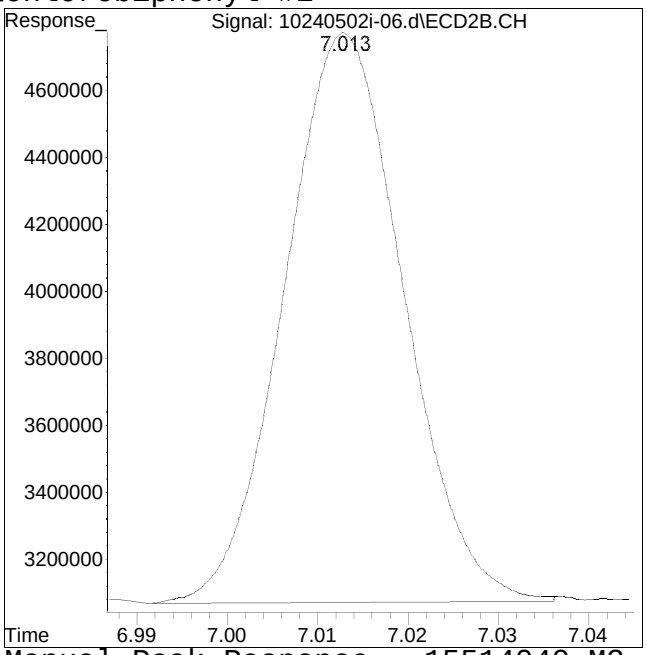
Original Peak Response = 47145548 Manual Peak Response = 47103868 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 15486878 Manual Peak Response = 15514040 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.319	1.429	380.4E6	144.4E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.663	1.920	71158748	21403220	4.686M4	4.043M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.37%#	8.09%#
27) s	Decachlorobi	6.306	7.013	63296245	20696362	5.030M4	4.846M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.06%#	9.69%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	76097059	25484547	4.690M4	4.343M4
4) t	alpha-BHC	1.976	2.350	91089323	28250275	3.920M3	3.469M3
5) t	gamma-BHC (l	2.180	2.645	86804329	27160723	4.099M3	3.651M4
6) t	beta-BHC	2.236	2.709	42285603	14021322	4.829M4	4.382M3
7) t	delta-BHC	2.364	2.984	85296936	26777490	3.962M4	3.527M4
8) t	Heptachlor	2.527	3.053	86843371	28276952	4.448M4	4.001M4
9) t	Aldrin	2.770	3.381	81005038	24952309	4.316M4	3.762M3
10) t	Alachlor	2.893	3.258	13616086	5338166	5.363M4	5.436M4
11) t	Chlorpyrifos	2.984	3.621	44522329	16062661	5.525M4	5.024M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.317	4.011	79890935	26457467	4.642M4	4.216M4
13)	t	gamma-Chlord	3.441	4.233	71397238	23026273	4.484	4.056M4
14)	t	alpha-Chlord	3.575	4.398	81261549	26084434	4.550M4	4.108M4
15)	t	4,4'-DDE	3.672	4.588	74919189	22850030	4.211	3.680M4
16)	t	Endosulfan I	3.713	4.459	76550932	24471997	4.697M4	4.174M4
17)	t	Dieldrin	3.973	4.744	77028838	23629629	4.427M4	3.880M4
18)	t	Endrin	4.229	5.036	79260081	24435299	4.448M4	3.919M4
19)	t	4,4'-DDD	4.336	5.152	61906553	18509992	4.316M4	3.723M4
20)	t	Endosulfan I	4.468	5.231	71666941	22655536	4.913M4	4.396M4
21)	t	4,4'-DDT	4.629	5.426	69540614	21471773	4.403M3	3.873M4
22)	t	Endrin Aldeh	4.887	5.524	51036564	16290697	4.166	3.718
23)	t	Methoxychlor	5.116	5.984	42067416	13030213	5.211	4.550M3
24)	t	Mirex	5.173	6.128	66752554	21470435	5.253M4	4.906
25)	t	Endosulfan S	5.279	5.750	70655233	22327085	4.823M4	4.301
26)	t	Endrin Keton	5.506	6.160	76385462	24101372	4.697M4	4.211M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

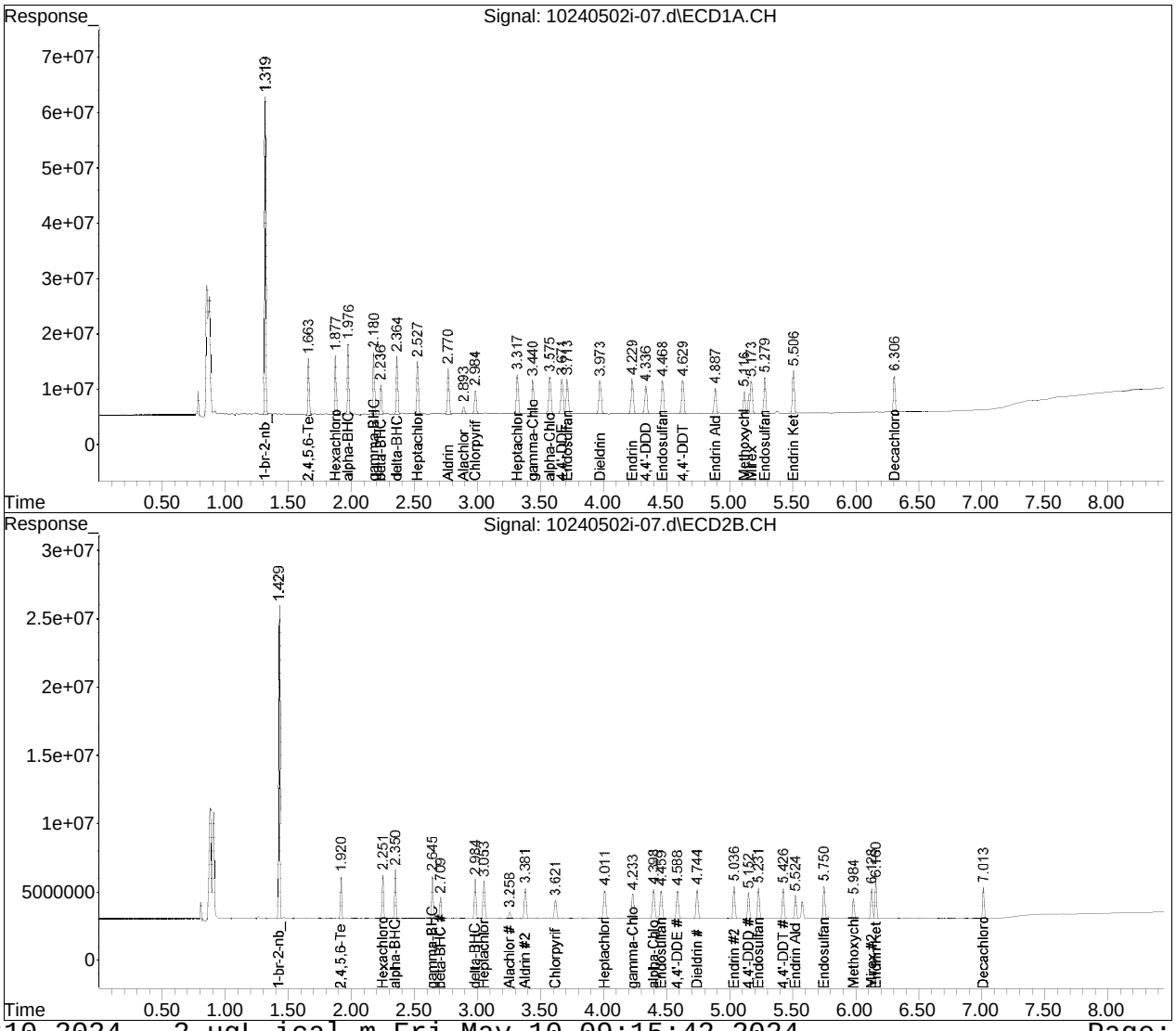
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

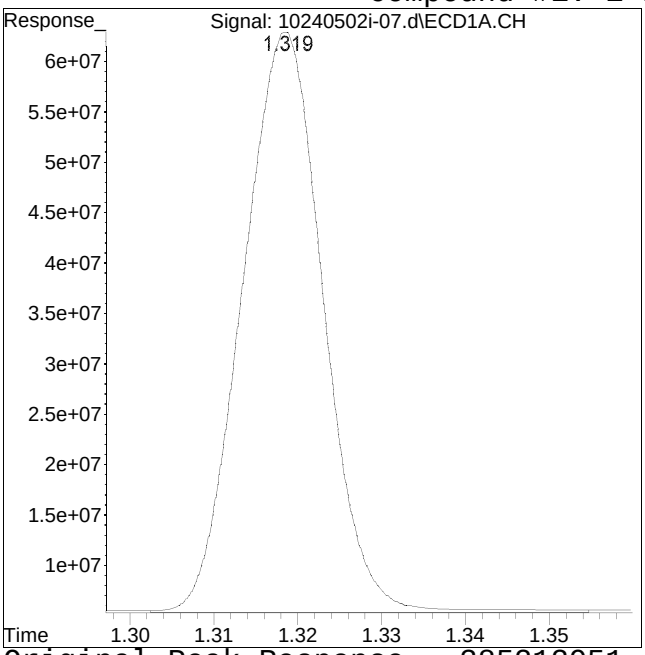


Manual Integration Report

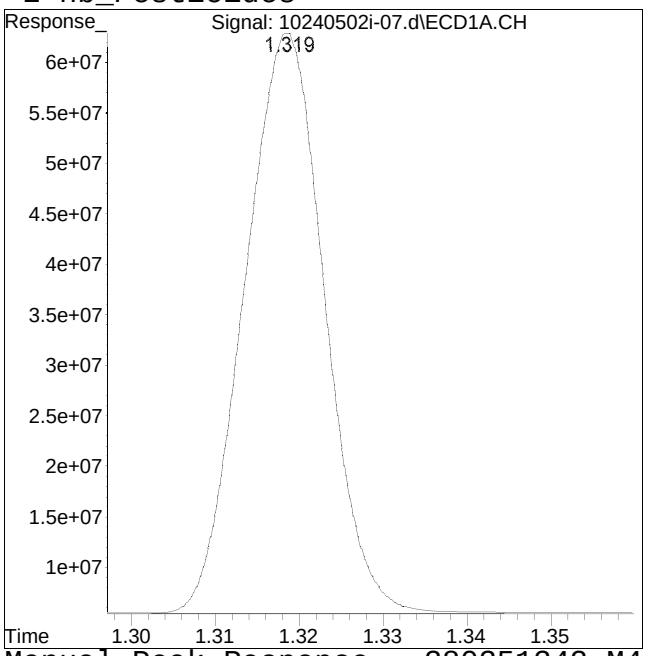
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 385212951



Manual Peak Response = 380351342 M4

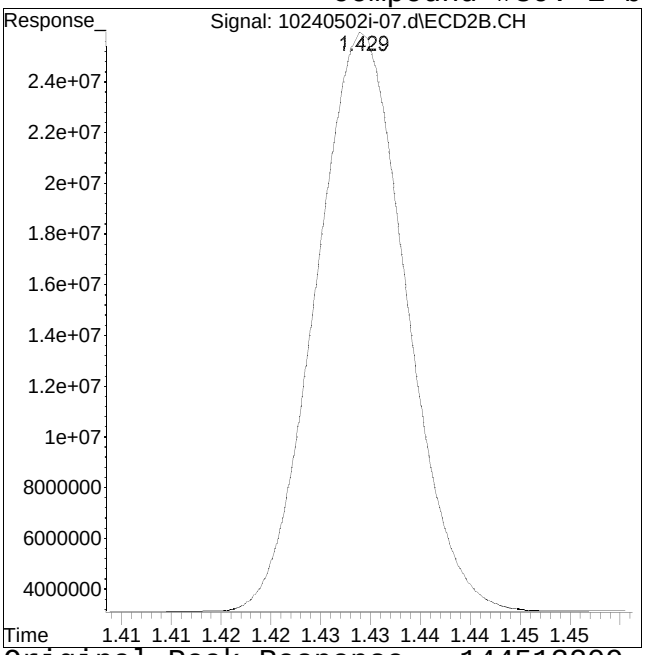
M4 = Poor automated baseline construction.

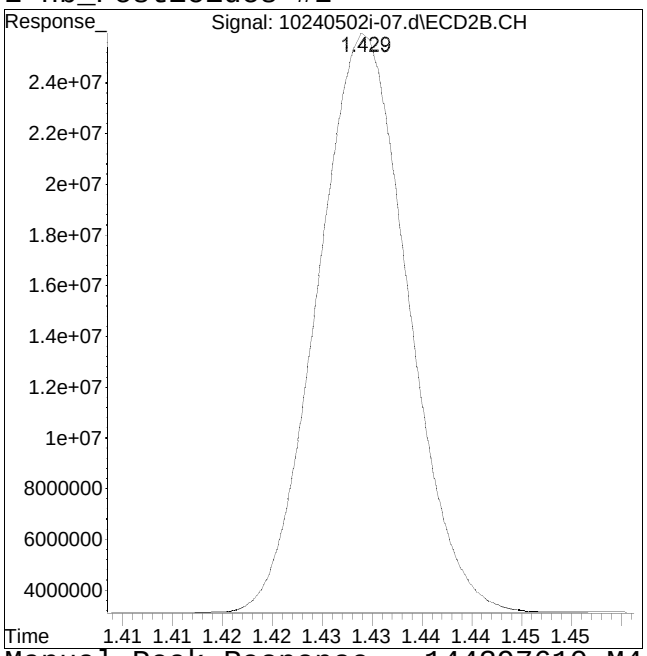
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



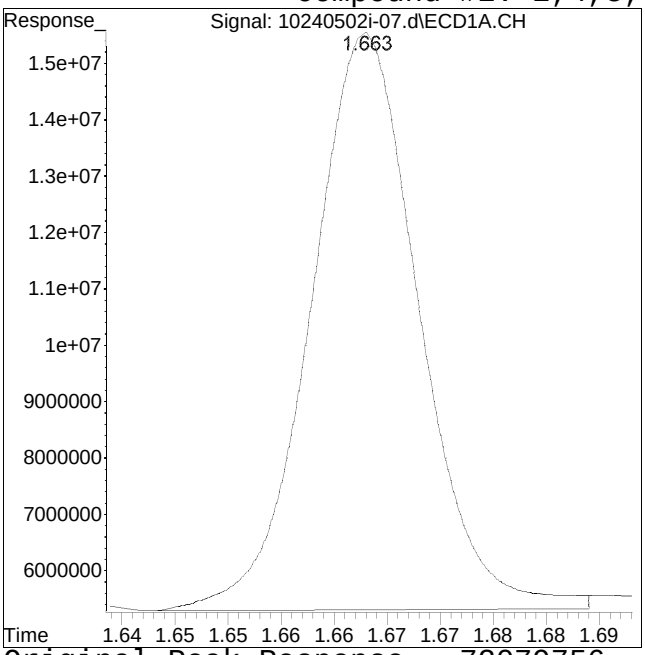


Original Peak Response = 144513209 Manual Peak Response = 144397610 M4
M4 = Poor automated baseline construction.

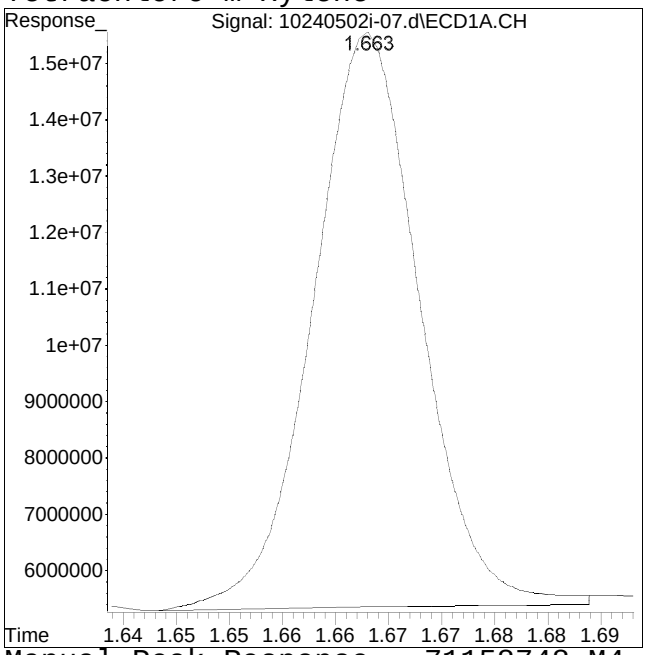
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 72079756



Manual Peak Response = 71158748 M4

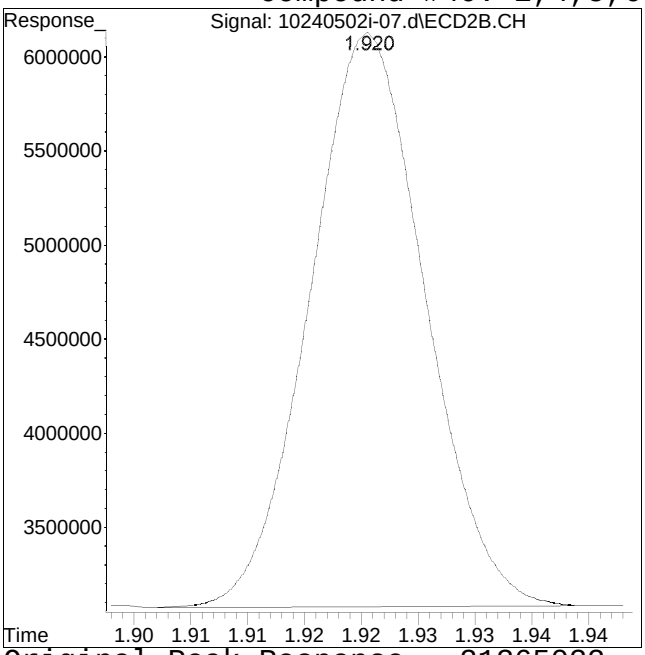
M4 = Poor automated baseline construction.

Manual Integration Report

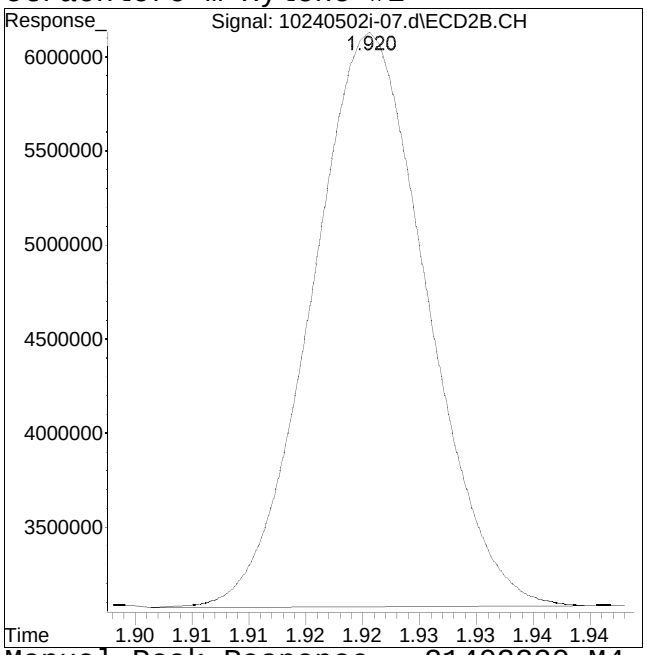
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 21365032



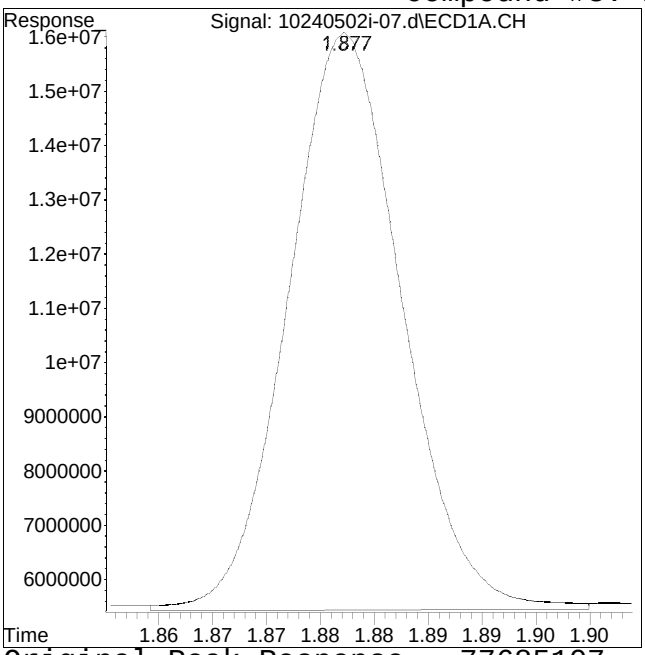
Manual Peak Response = 21403220 M4

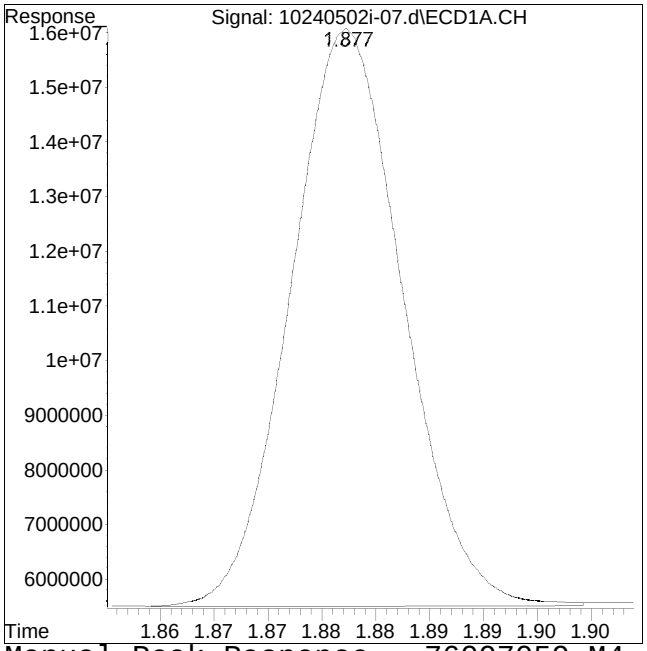
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #3: Hexachlorobenzene



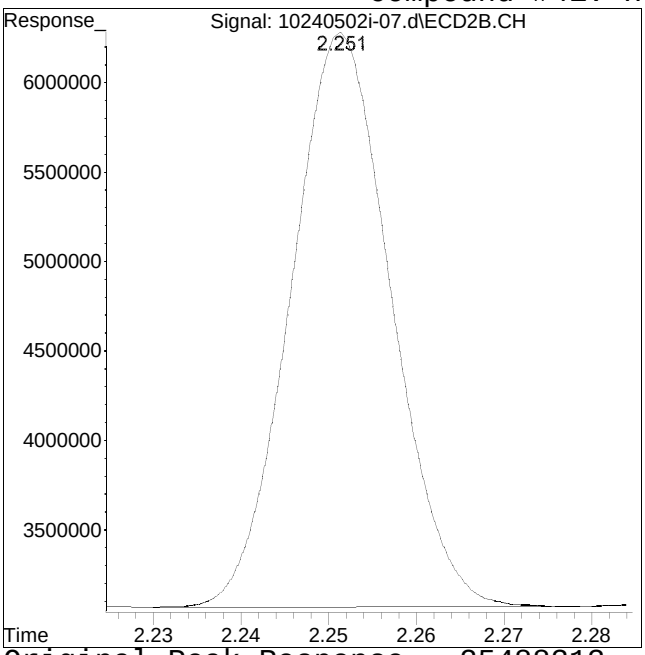


Original Peak Response = 77685107 Manual Peak Response = 76097059 M4
M4 = Poor automated baseline construction.

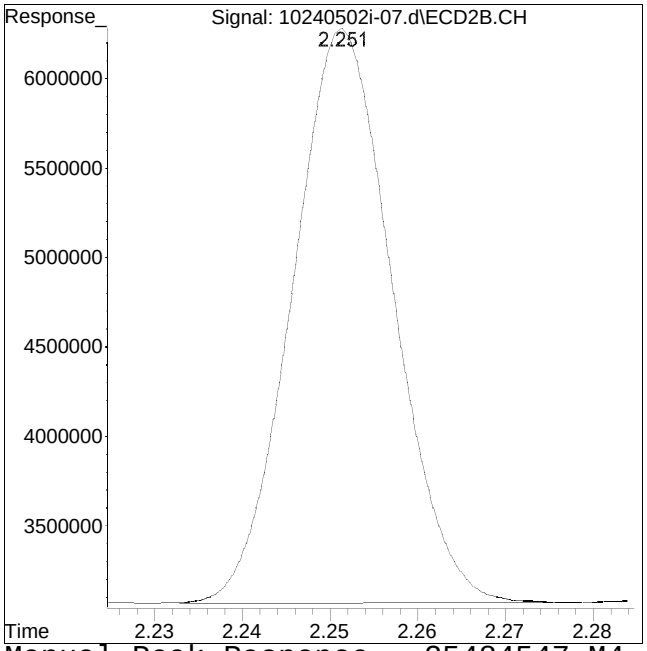
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 25488313



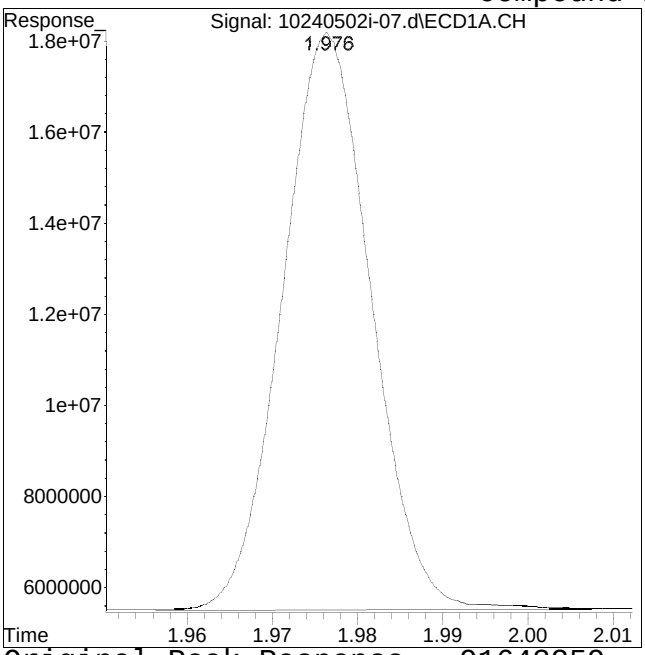
Manual Peak Response = 25484547 M4

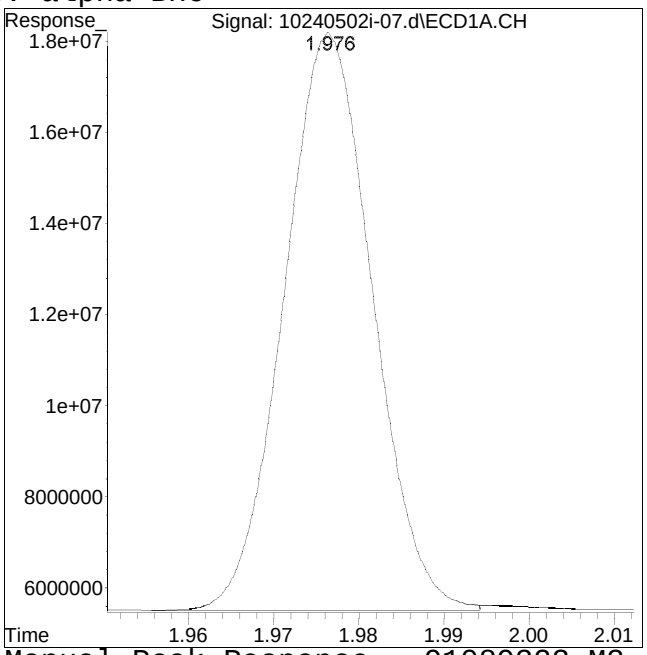
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #4: alpha-BHC



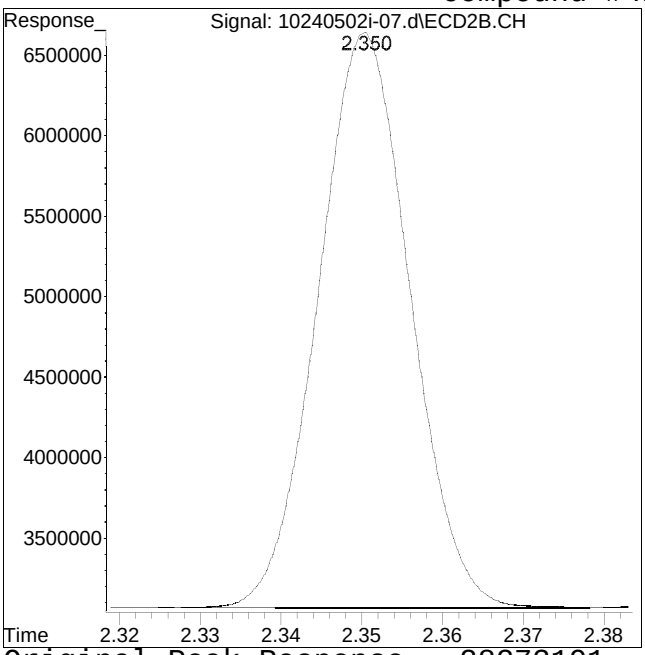


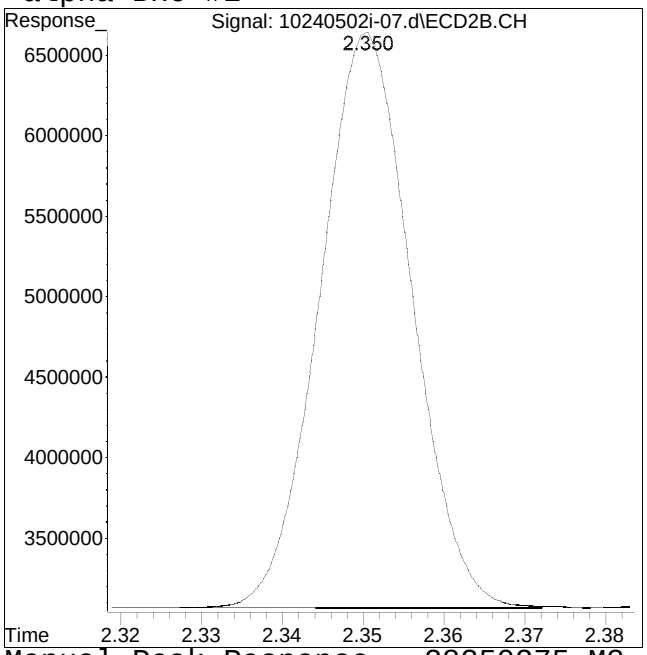
Original Peak Response = 91643259 Manual Peak Response = 91089323 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #42: alpha-BHC #2



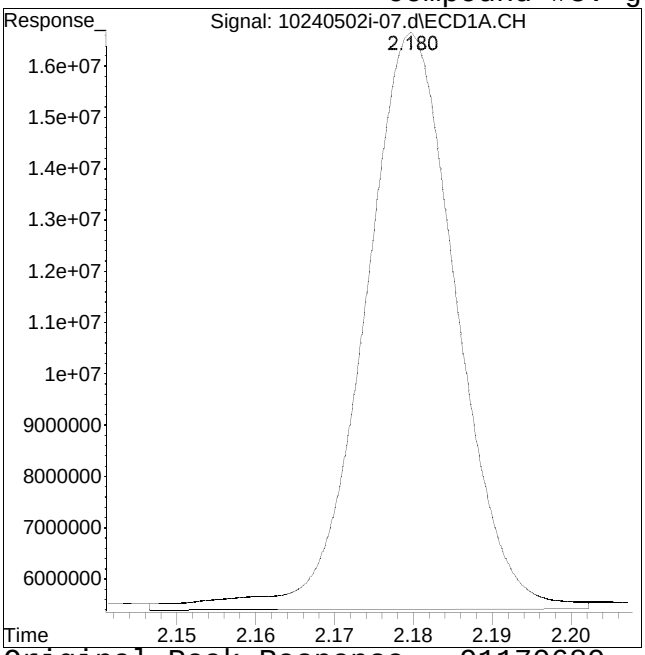


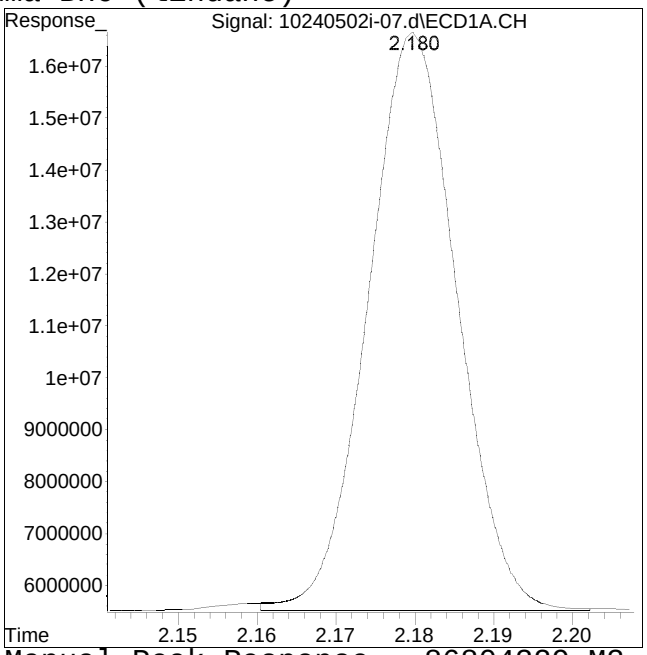
Original Peak Response = 28273191 Manual Peak Response = 28250275 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #5: gamma-BHC (lindane)



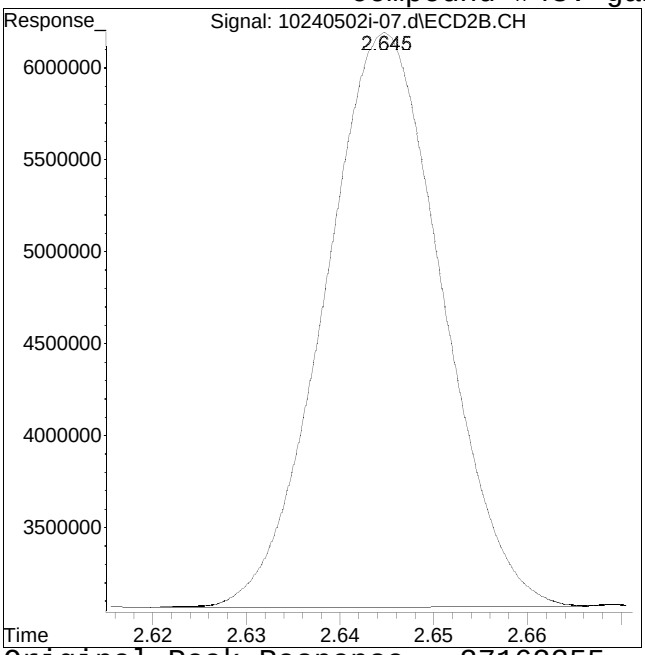


Original Peak Response = 91170680 Manual Peak Response = 86804329 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

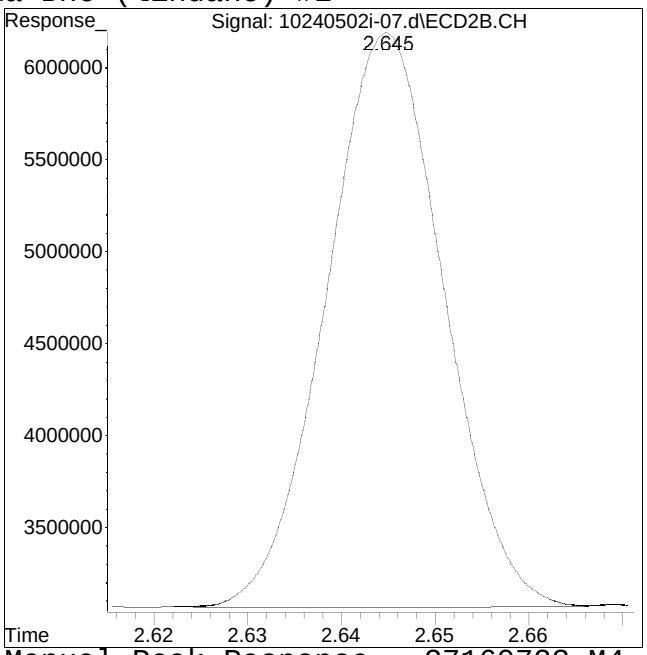
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 27162355



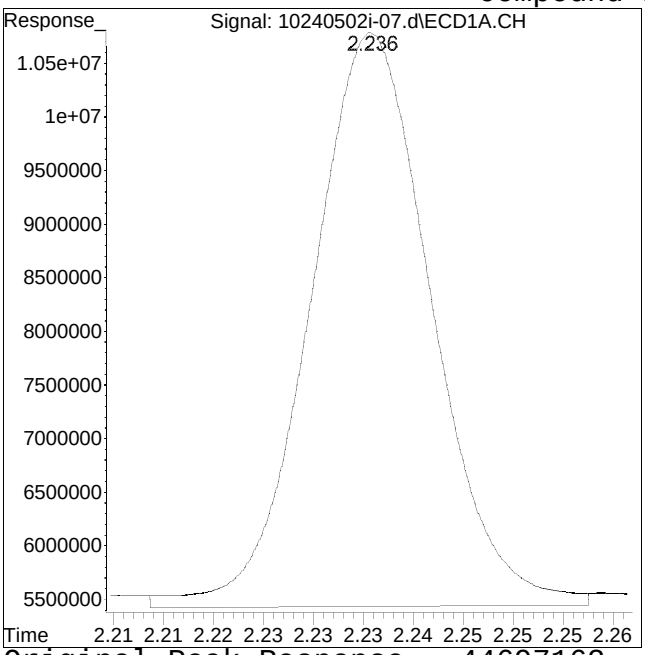
Manual Peak Response = 27160723 M4

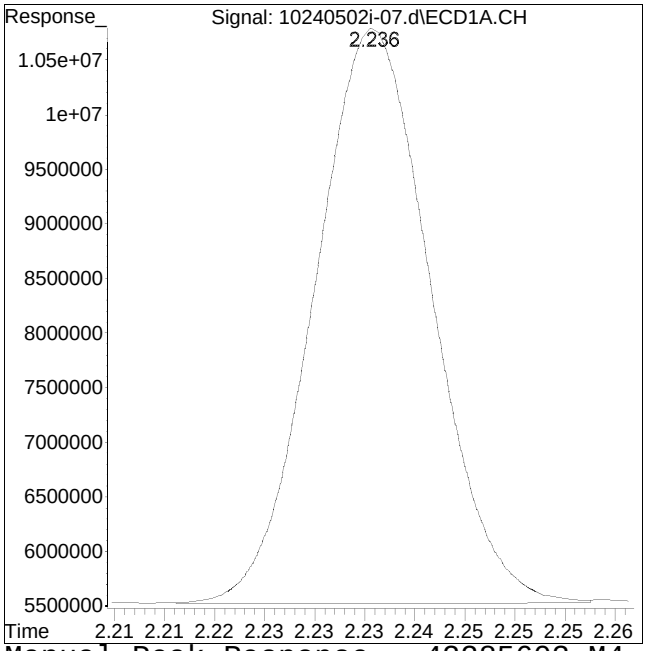
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #6: beta-BHC



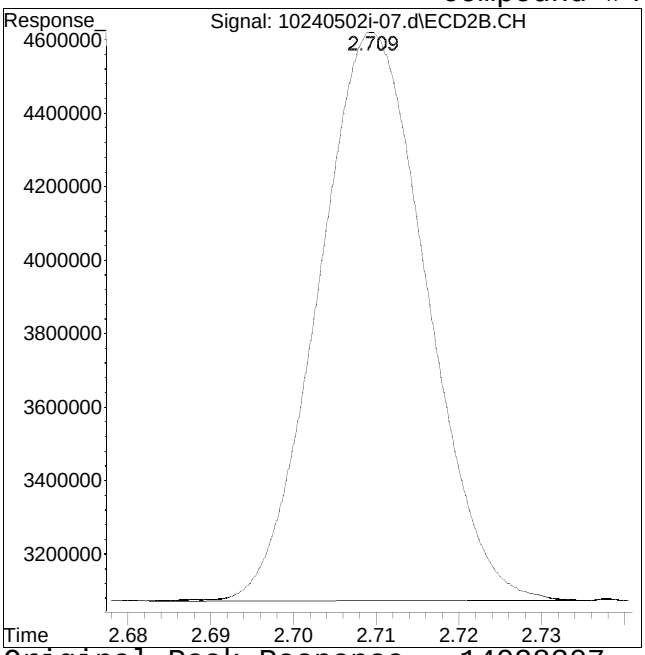


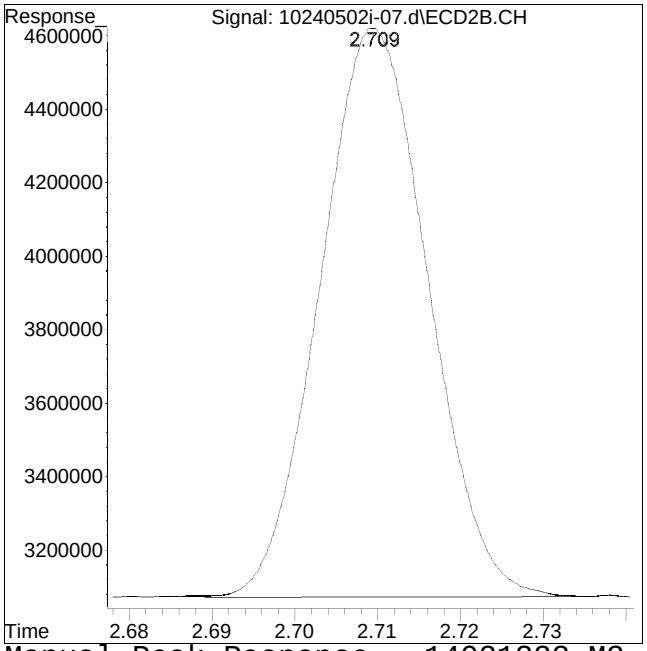
Original Peak Response = 44697162 Manual Peak Response = 42285603 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #44: beta-BHC #2



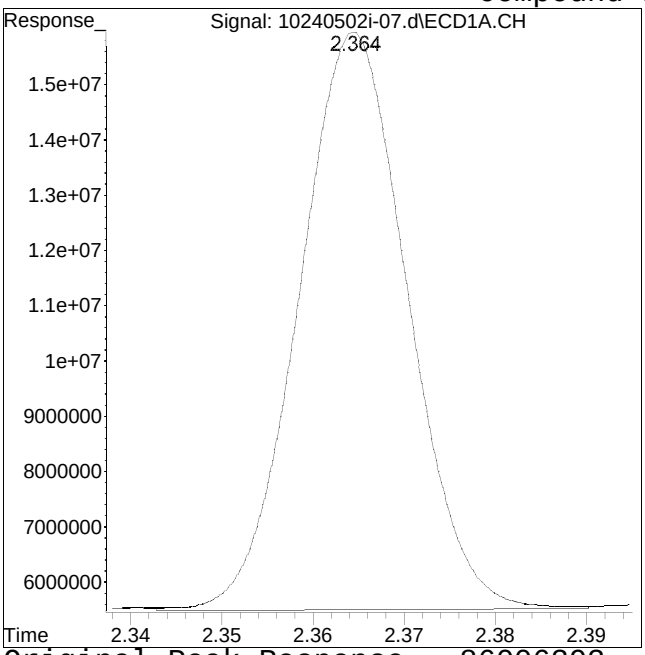


Original Peak Response = 14028307 Manual Peak Response = 14021322 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

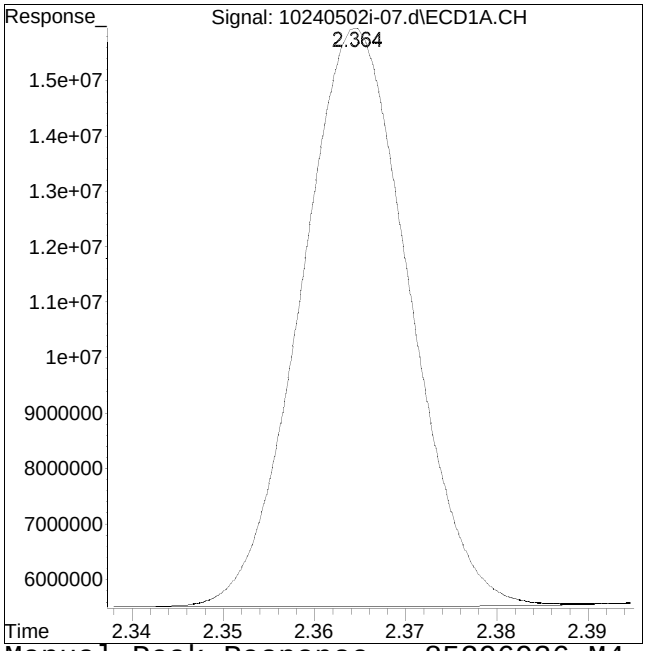
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #7: delta-BHC



Original Peak Response = 86006393

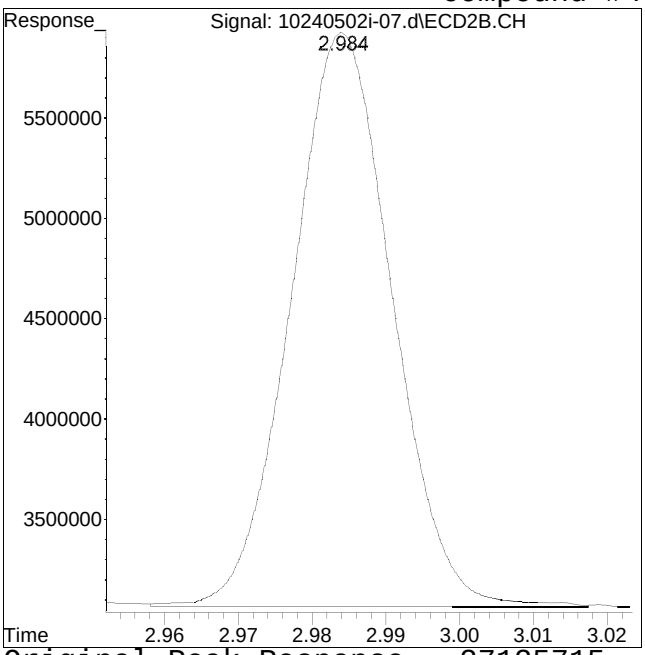


Manual Peak Response = 85296936 M4
M4 = Poor automated baseline construction.

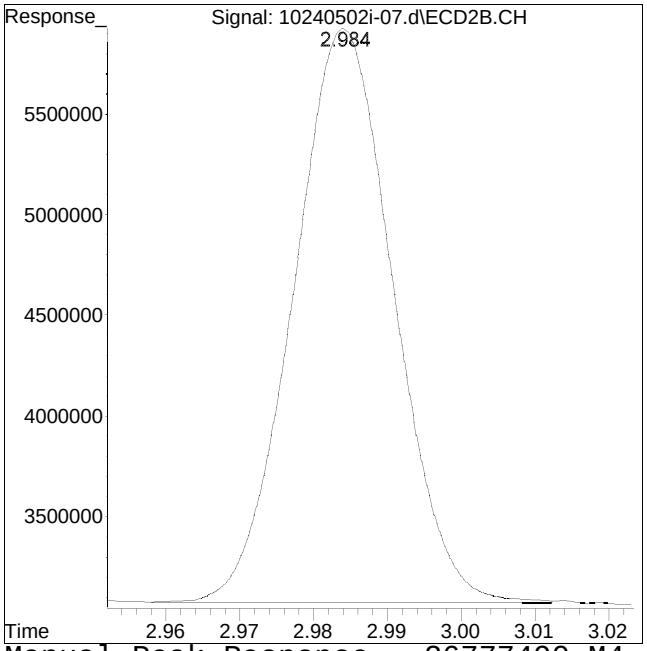
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #45: delta-BHC #2



Original Peak Response = 27125715



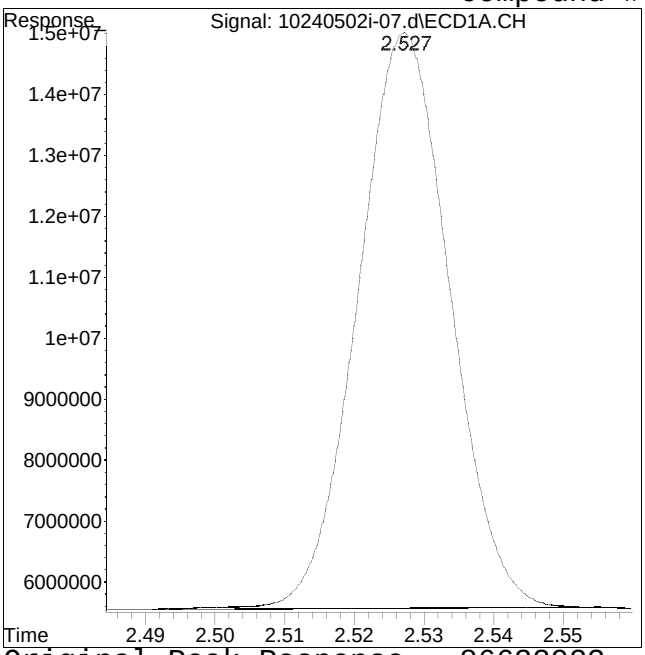
Manual Peak Response = 26777490 M4

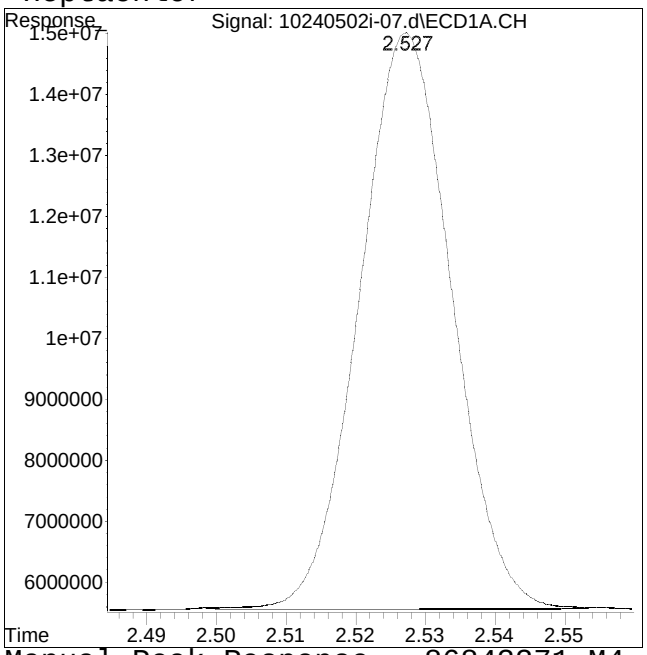
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #8: Heptachlor



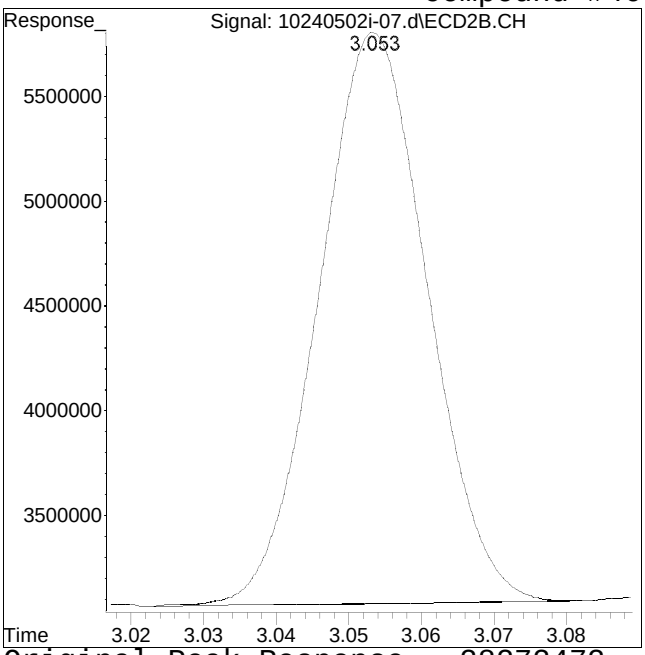


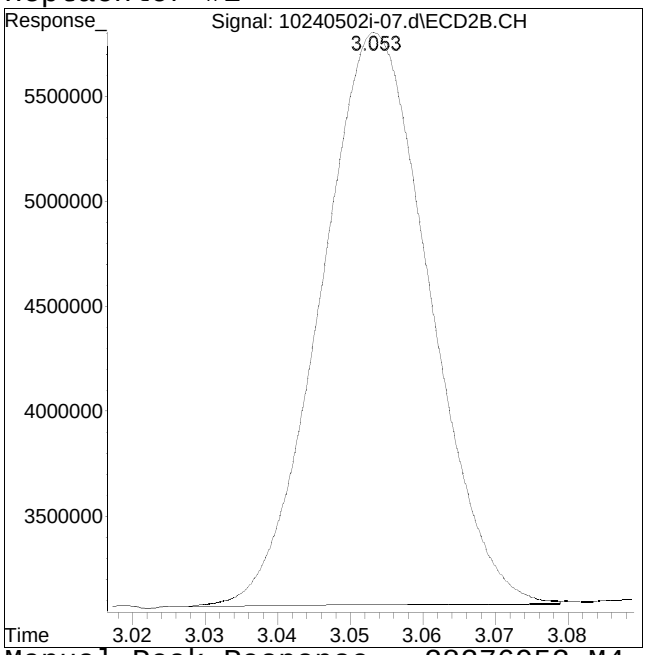
Original Peak Response = 86632923 Manual Peak Response = 86843371 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #46: Heptachlor #2



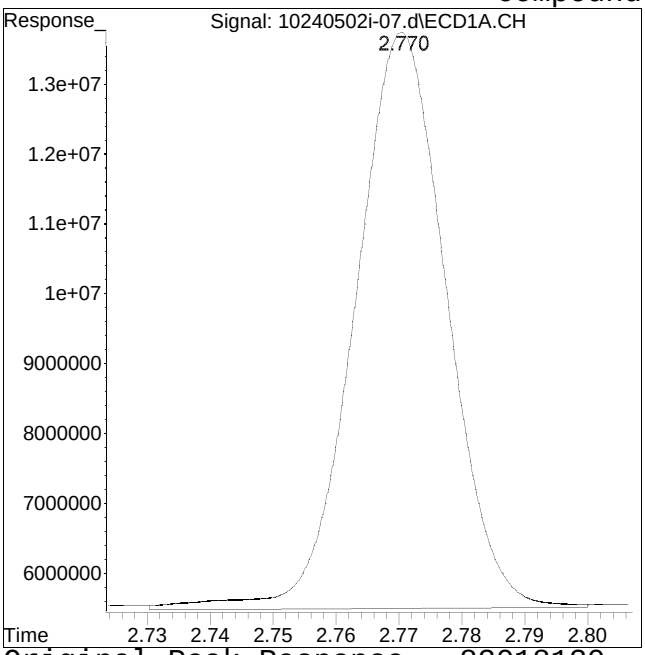


Original Peak Response = 28272472 Manual Peak Response = 28276952 M4
M4 = Poor automated baseline construction.

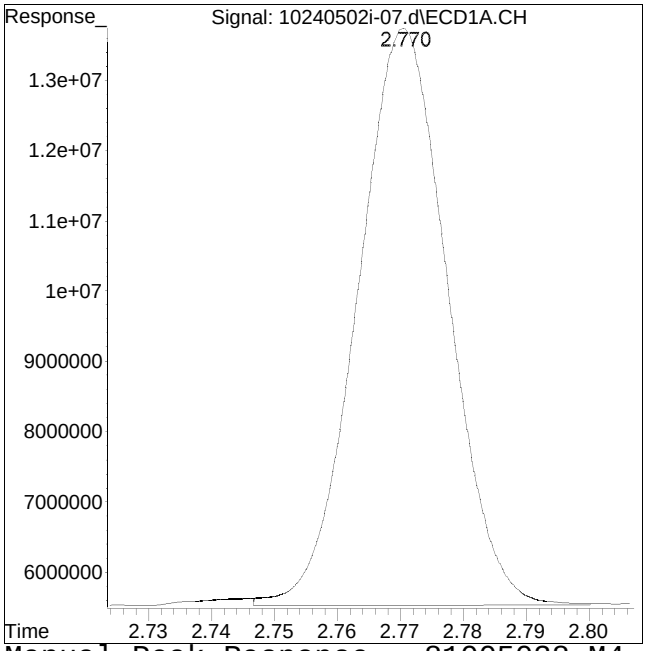
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #9: Aldrin



Original Peak Response = 83018130



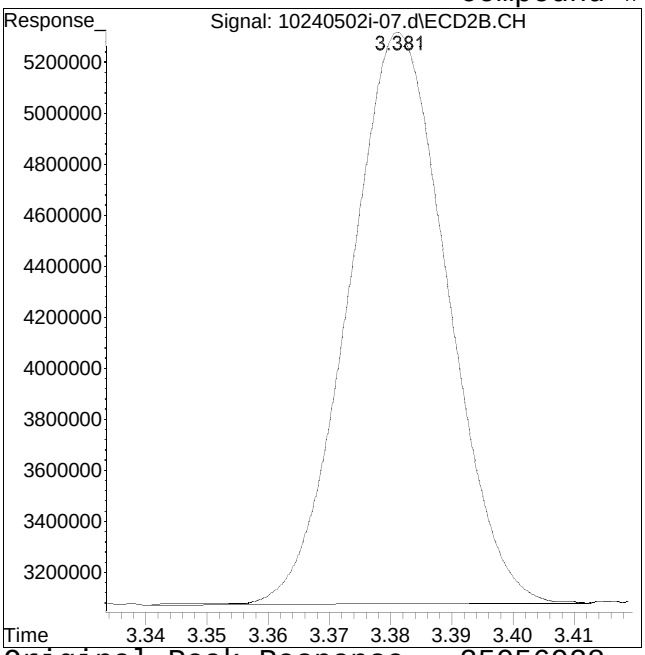
Manual Peak Response = 81005038 M4

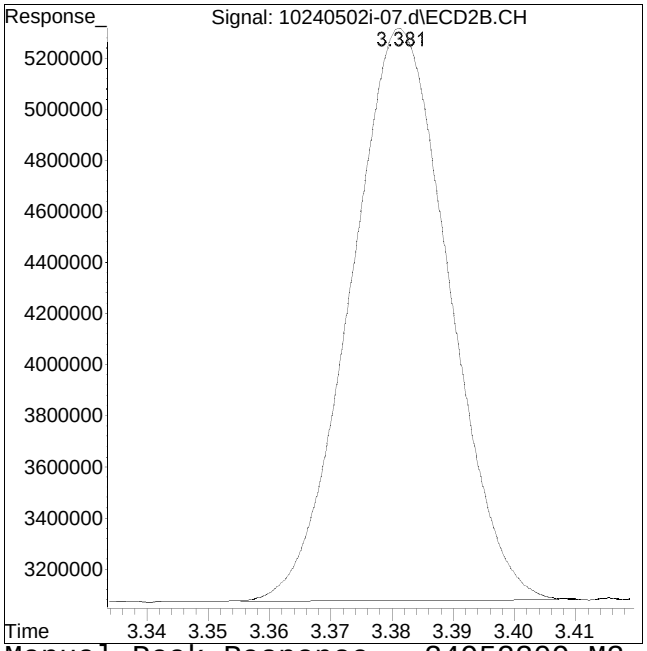
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #47: Aldrin #2



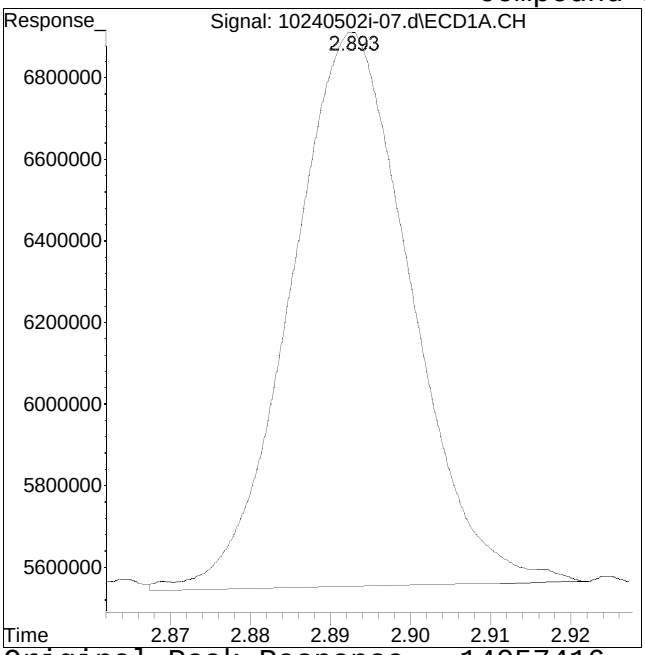


Original Peak Response = 25056928 Manual Peak Response = 24952309 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

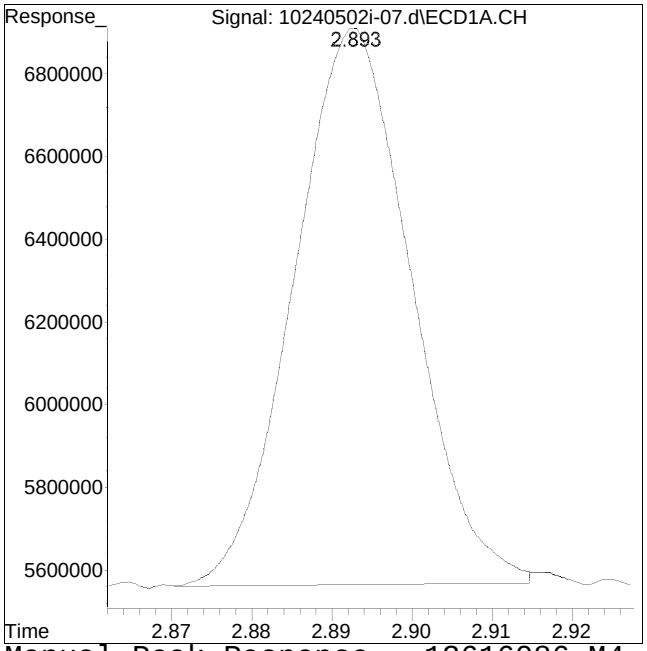
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #10: Alachlor



Original Peak Response = 14057416



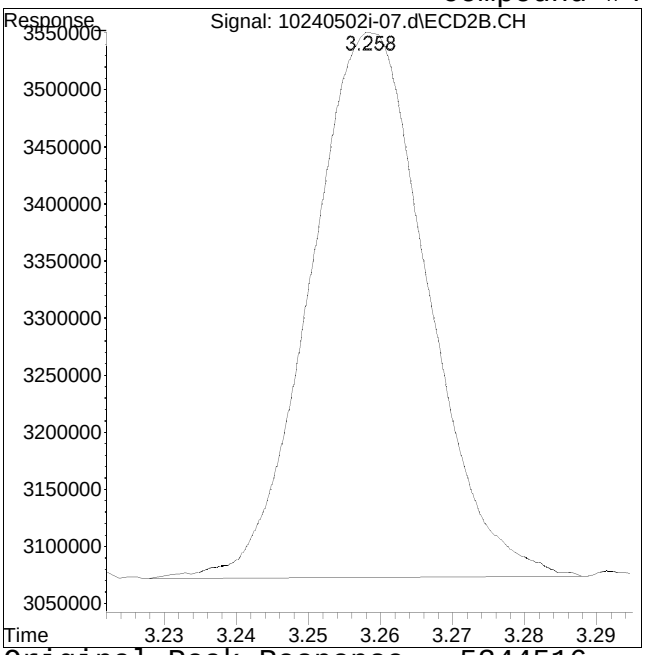
Manual Peak Response = 13616086 M4

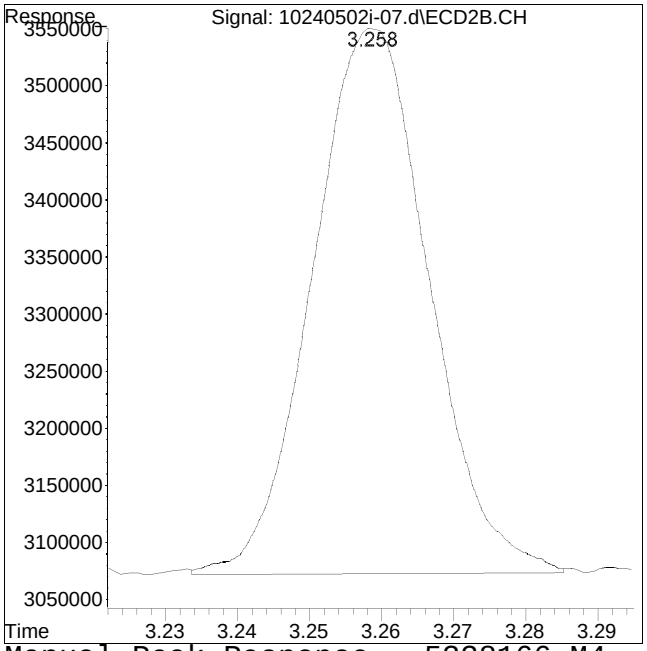
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #48: Alachlor #2



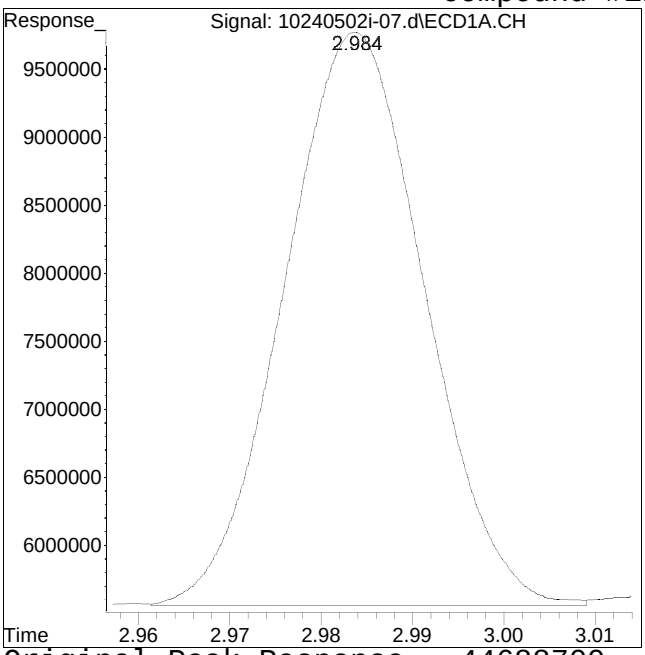


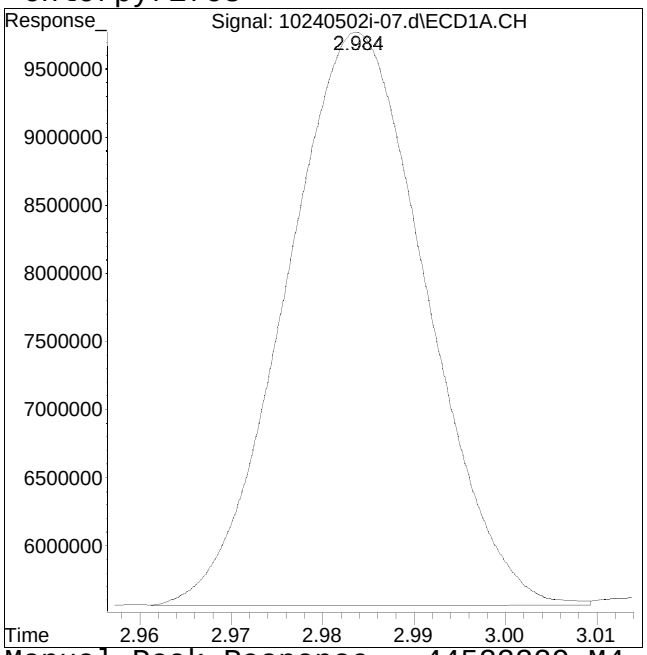
Original Peak Response = 5344516 Manual Peak Response = 5338166 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #11: Chlorpyrifos



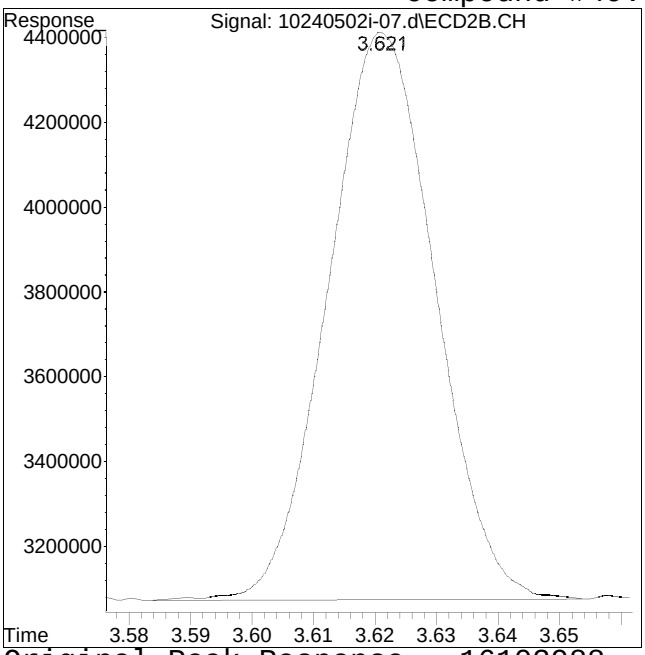


Original Peak Response = 44688700 Manual Peak Response = 44522329 M4
M4 = Poor automated baseline construction.

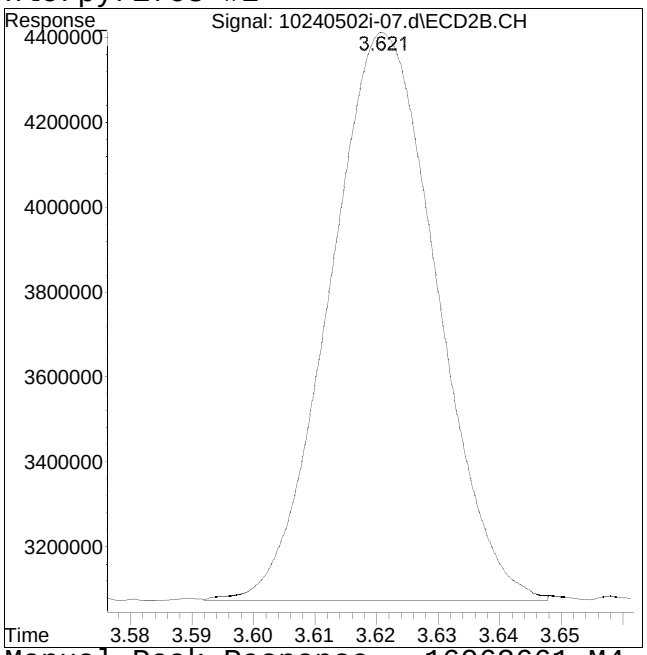
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 16103988



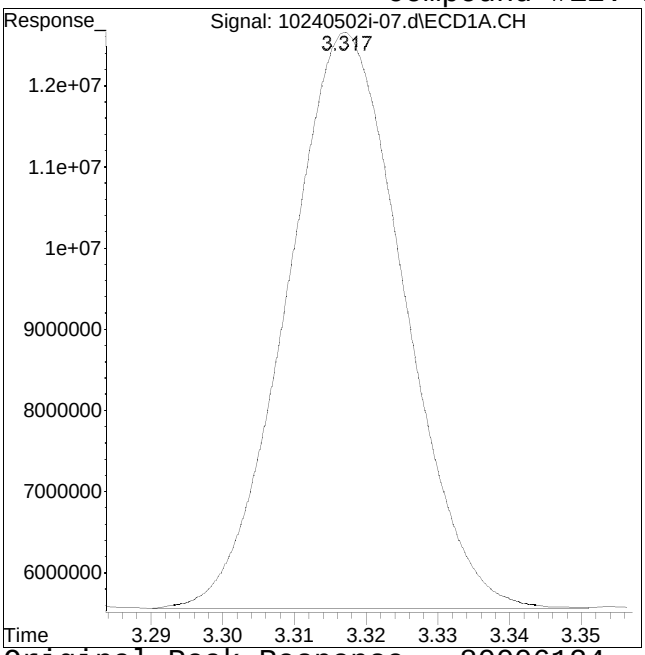
Manual Peak Response = 16062661 M4

M4 = Poor automated baseline construction.

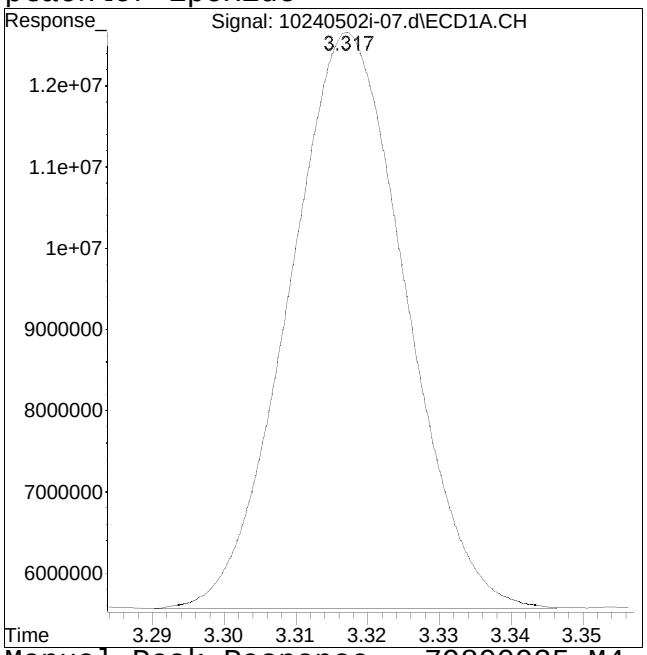
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 80006124



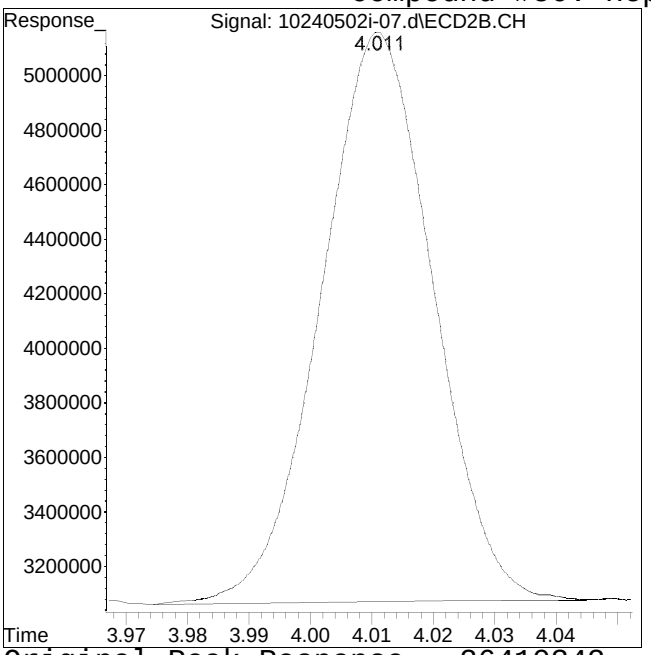
Manual Peak Response = 79890935 M4

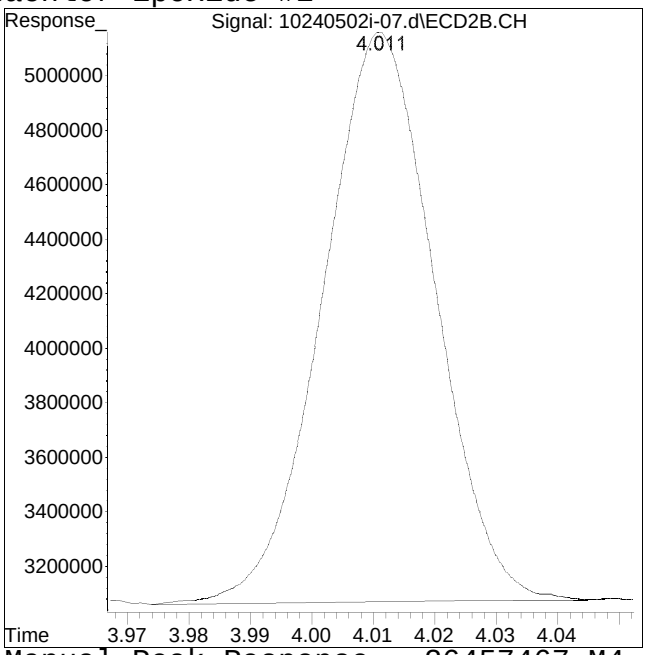
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #50: Heptachlor Epoxide #2



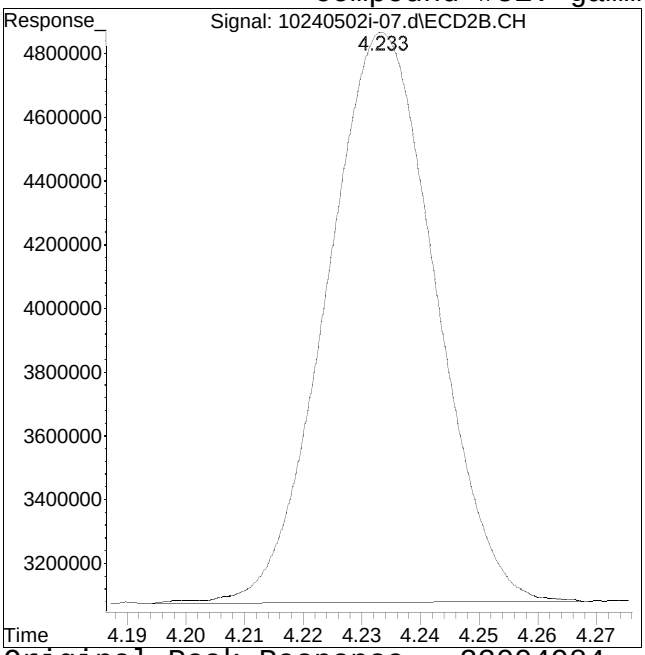


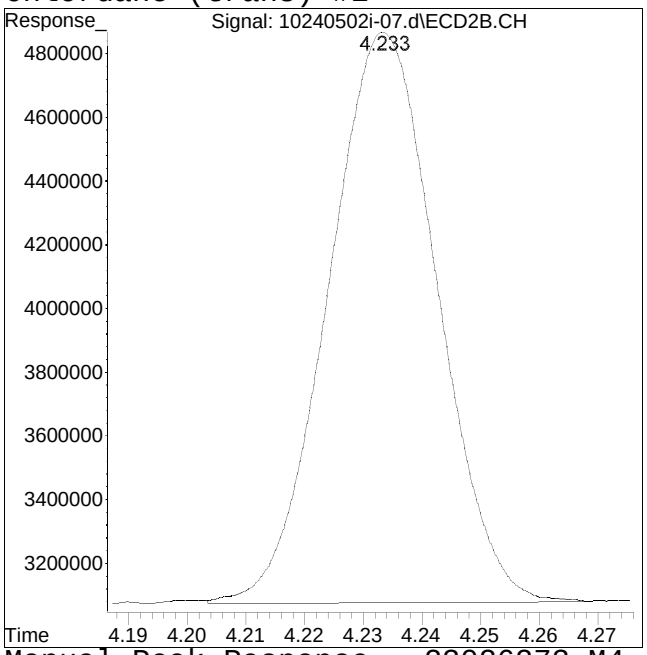
Original Peak Response = 26410342 Manual Peak Response = 26457467 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #51: gamma-Chlordane (trans) #2



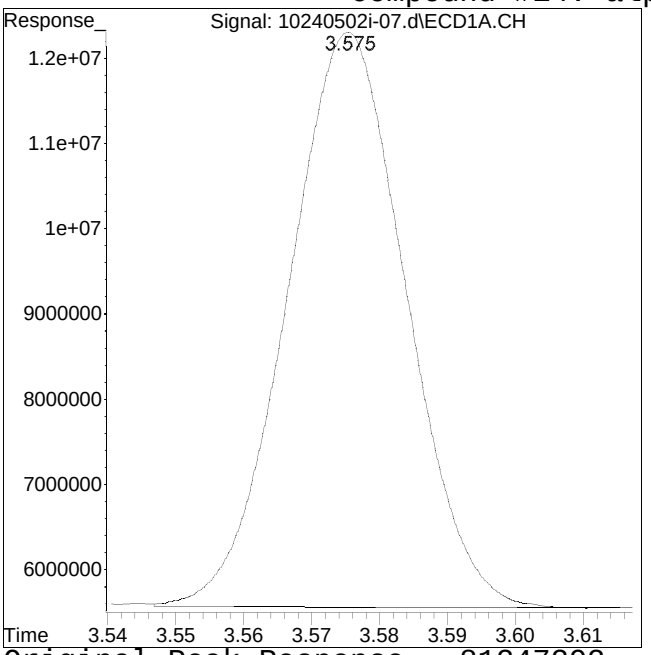


Original Peak Response = 23004984 Manual Peak Response = 23026273 M4
M4 = Poor automated baseline construction.

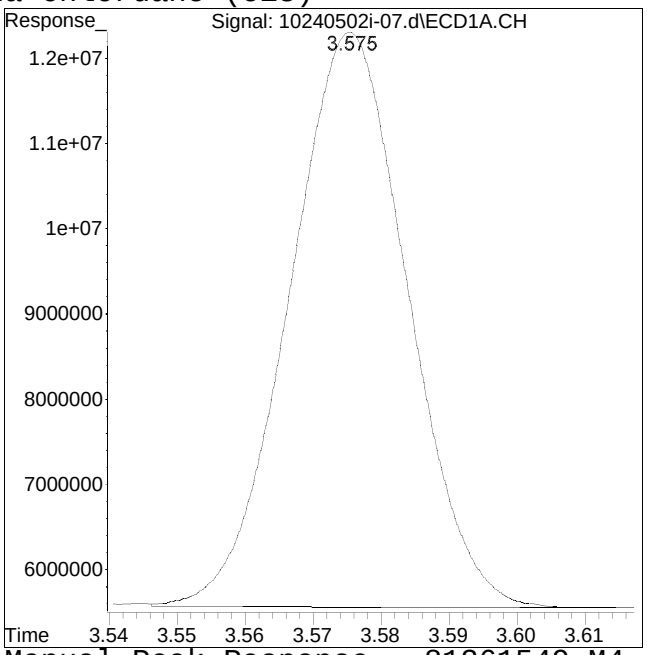
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 81247292



Manual Peak Response = 81261549 M4

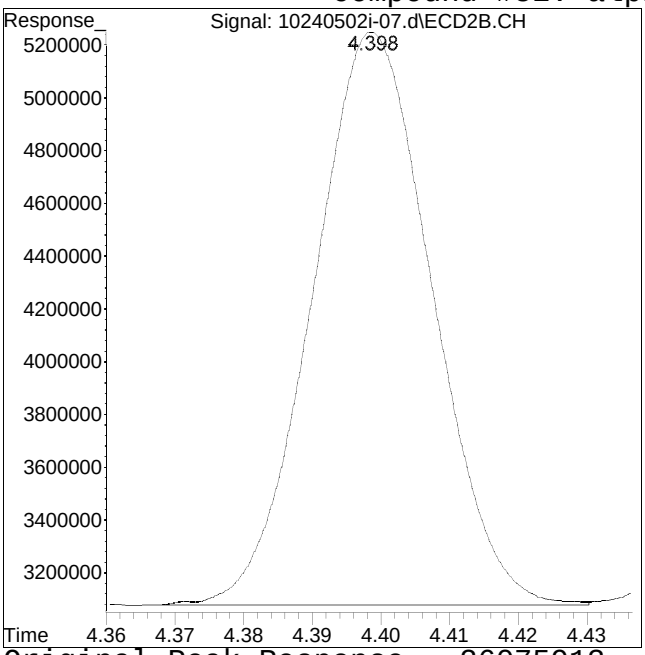
M4 = Poor automated baseline construction.

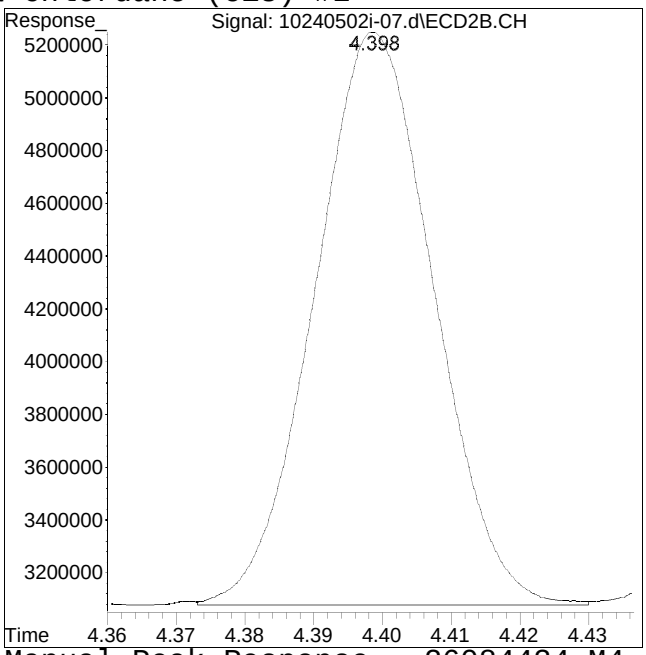
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #52: alpha-Chlordane (cis) #2



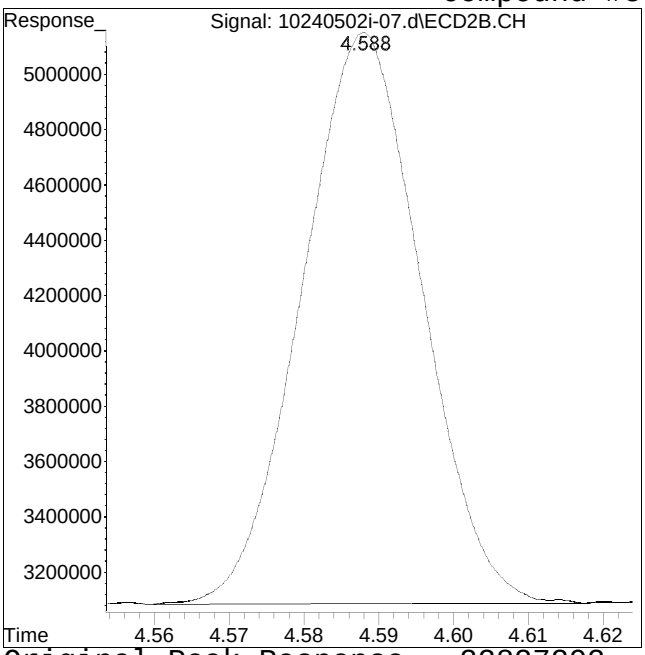


Original Peak Response = 26075913 Manual Peak Response = 26084434 M4
M4 = Poor automated baseline construction.

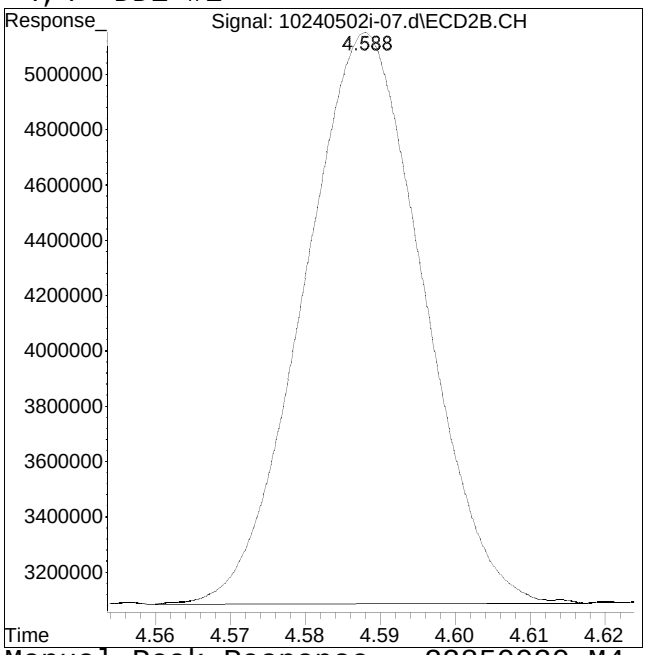
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 22827292

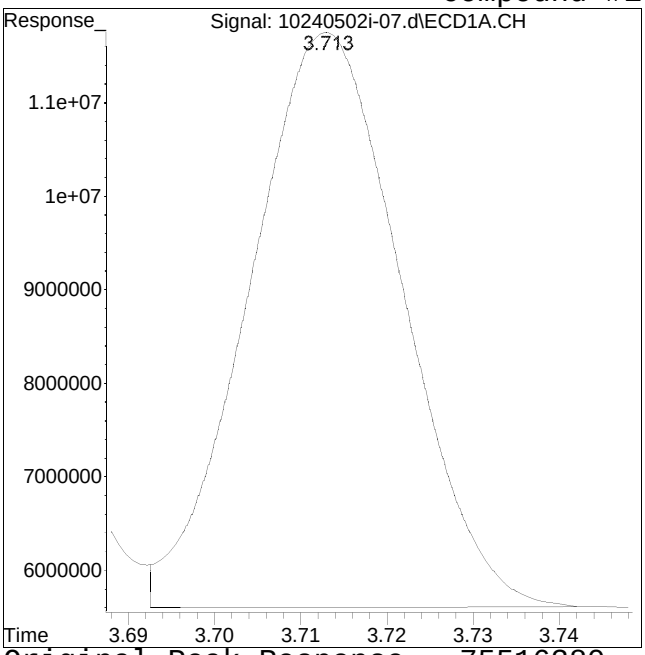


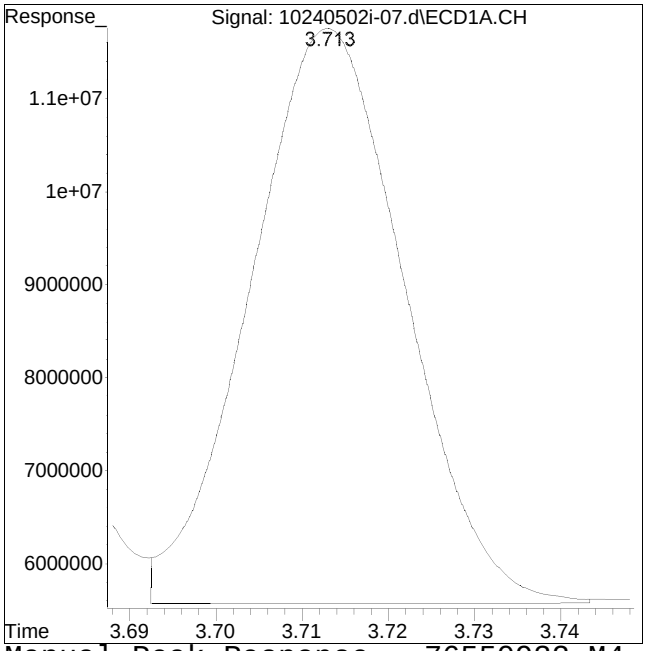
Manual Peak Response = 22850030 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #16: Endosulfan I



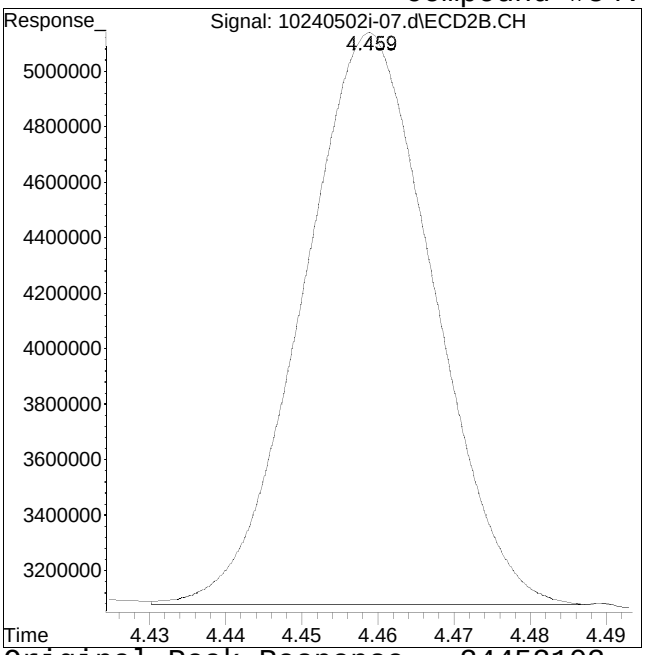


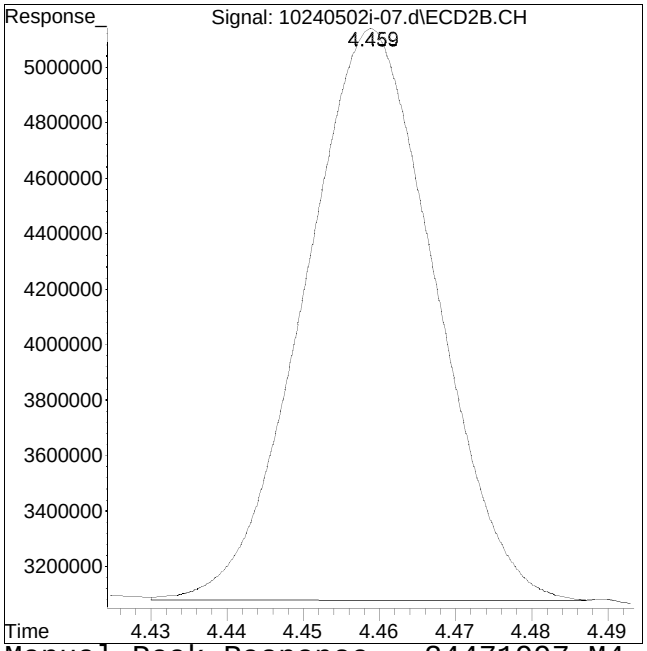
Original Peak Response = 75516380 Manual Peak Response = 76550932 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #54: Endosulfan I #2



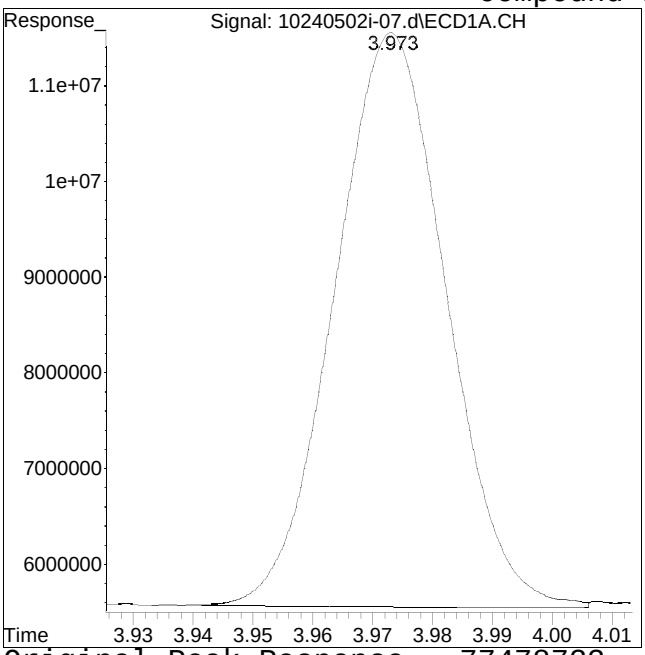


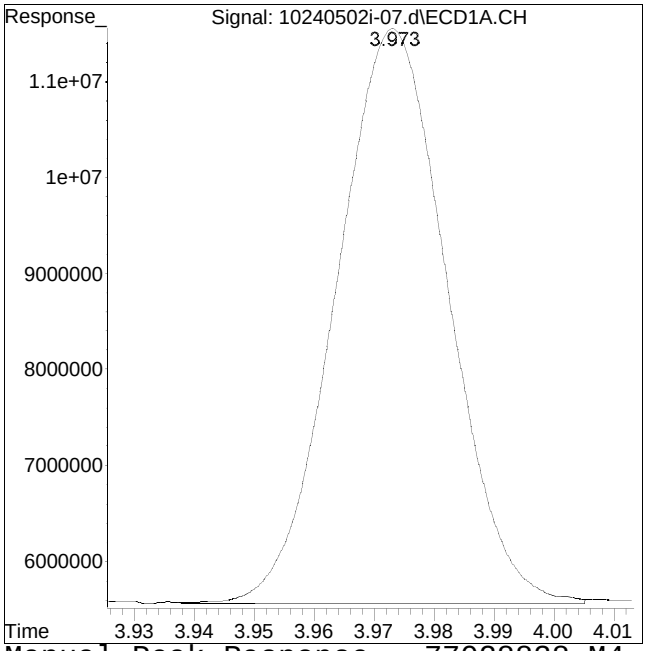
Original Peak Response = 24452103 Manual Peak Response = 24471997 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #17: Dieldrin





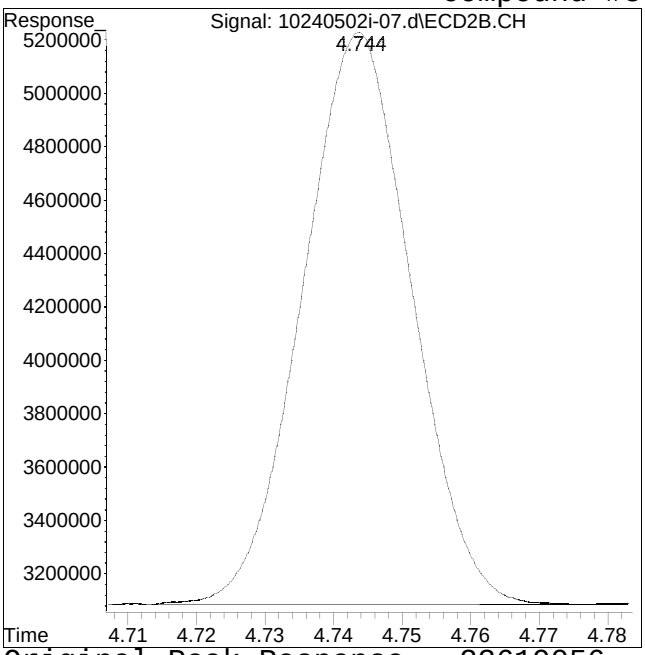
Original Peak Response = 77478733 Manual Peak Response = 77028838 M4
M4 = Poor automated baseline construction.

Manual Integration Report

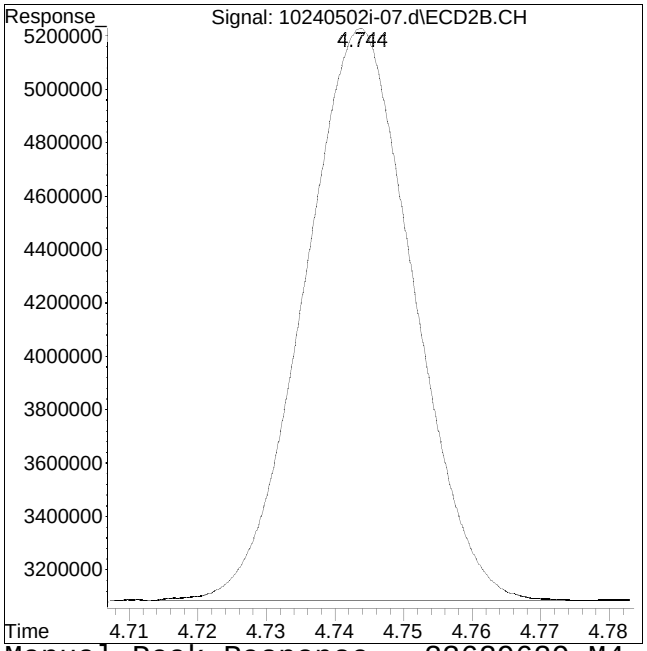
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #55: Dieldrin #2



Original Peak Response = 23619056



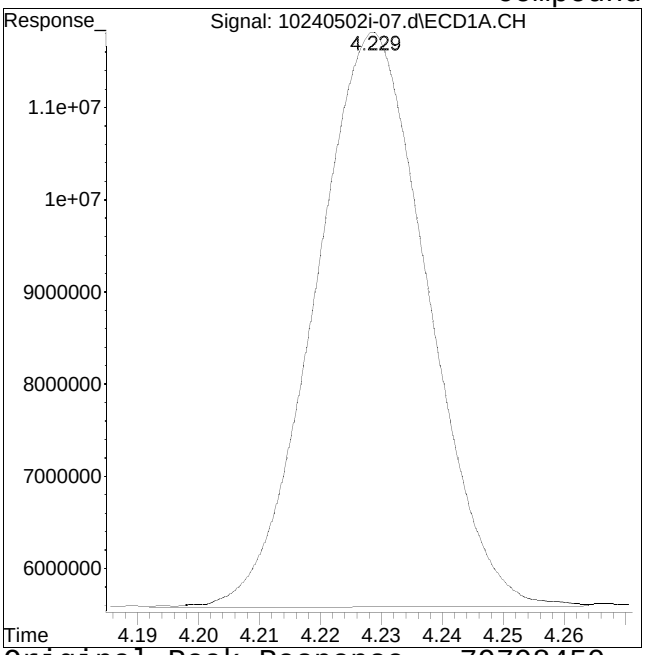
Manual Peak Response = 23629629 M4

M4 = Poor automated baseline construction.

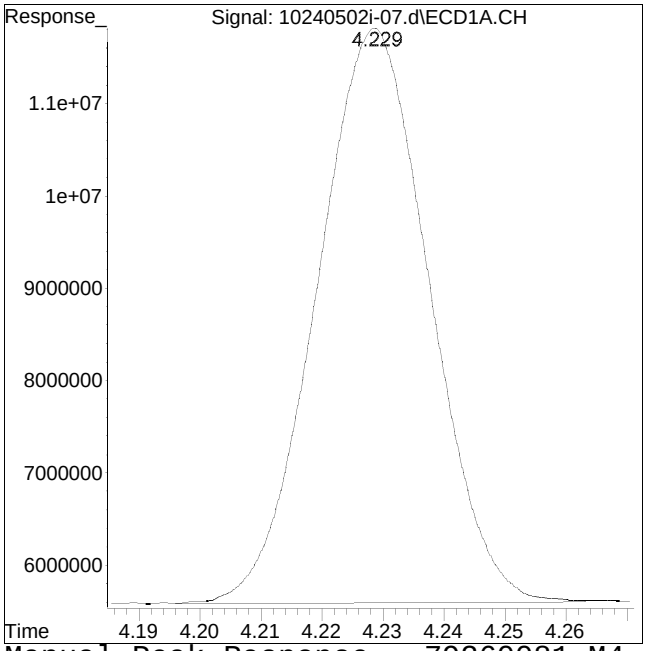
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #18: Endrin



Original Peak Response = 79798450



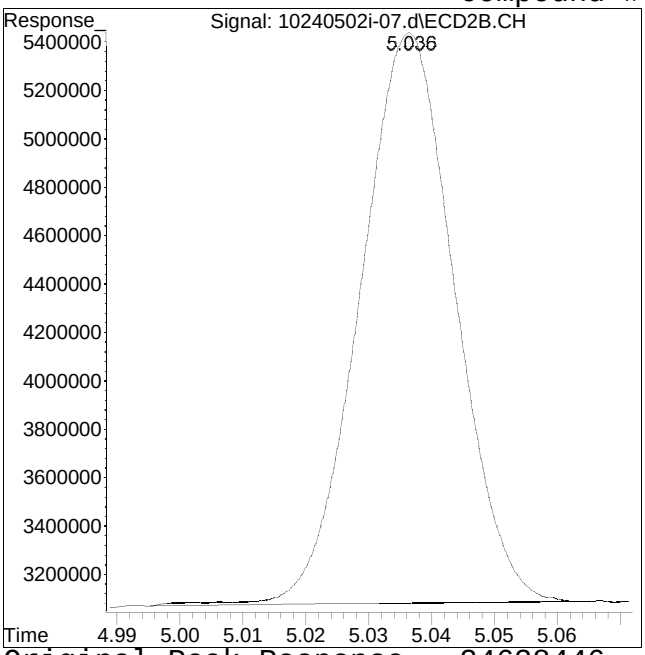
Manual Peak Response = 79260081 M4

M4 = Poor automated baseline construction.

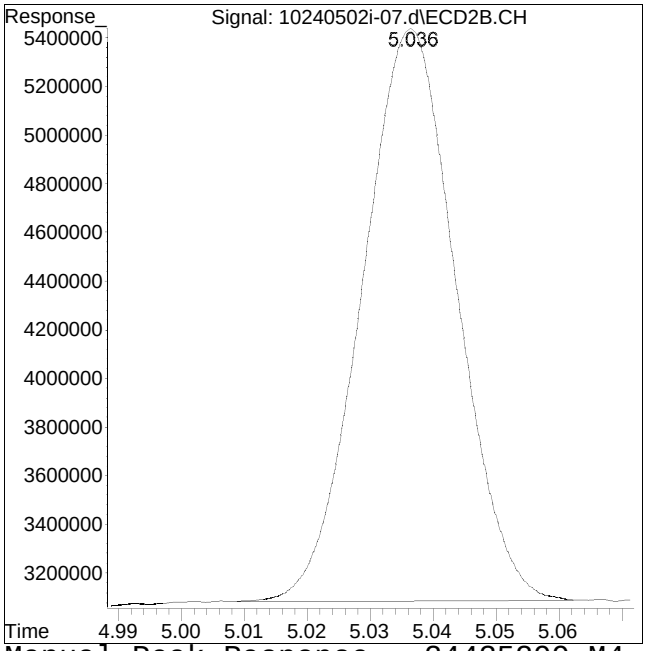
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #56: Endrin #2



Original Peak Response = 24638446



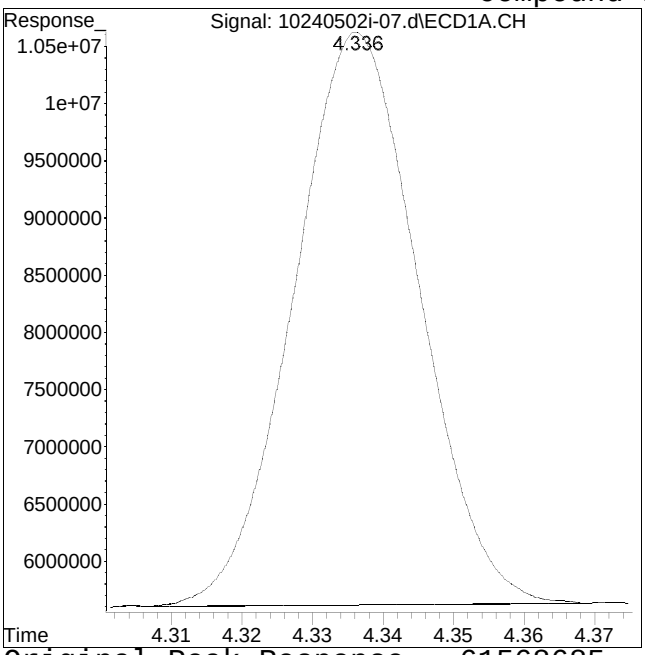
Manual Peak Response = 24435299 M4

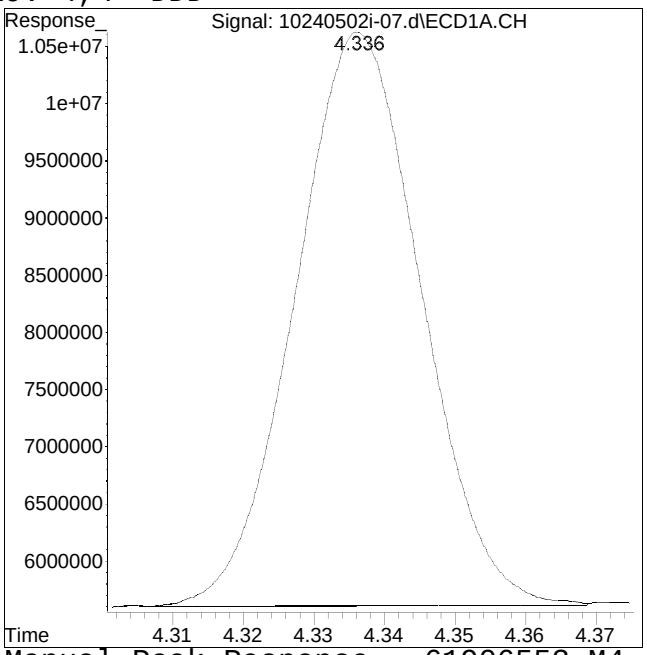
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #19: 4,4'-DDD



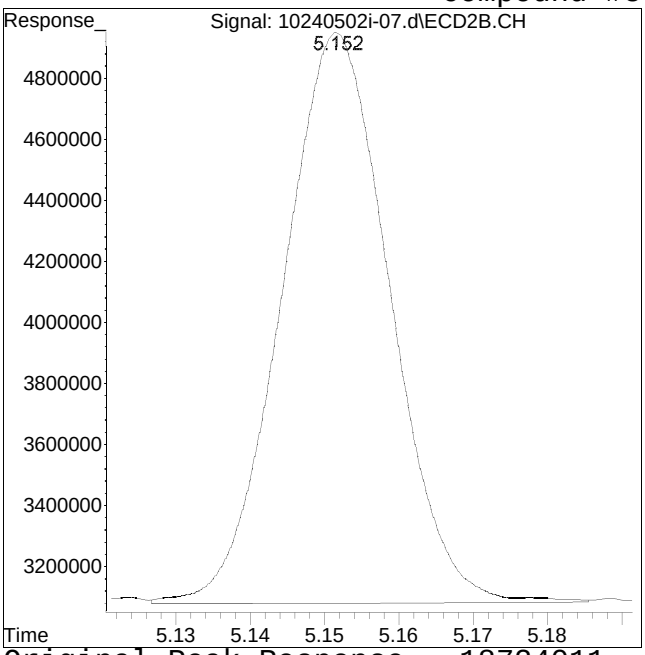


Original Peak Response = 61568685 Manual Peak Response = 61906553 M4
M4 = Poor automated baseline construction.

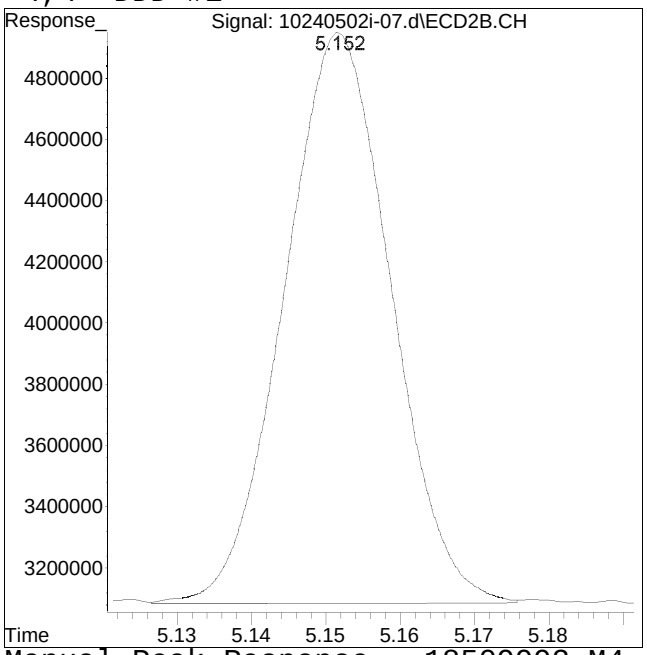
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 18724011

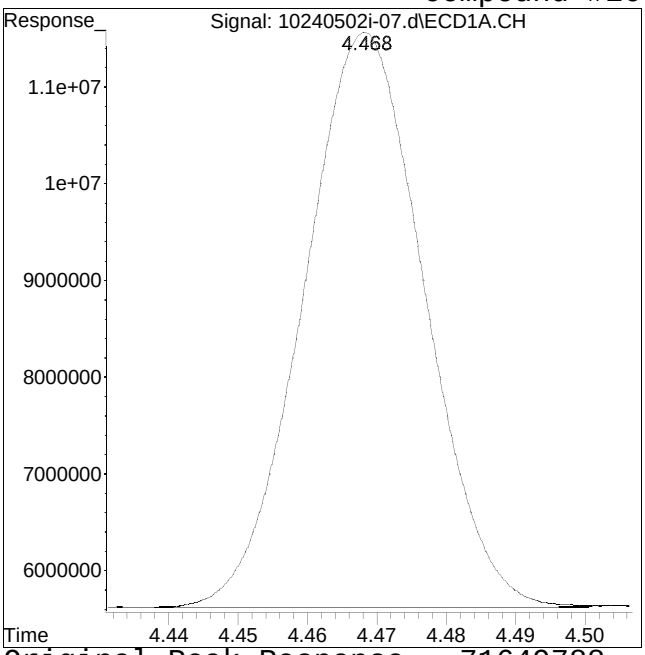


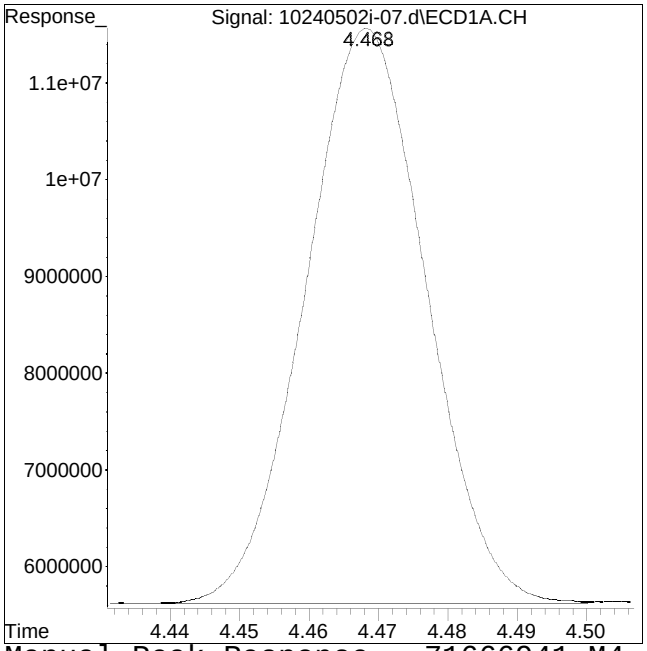
Manual Peak Response = 18509992 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #20: Endosulfan II



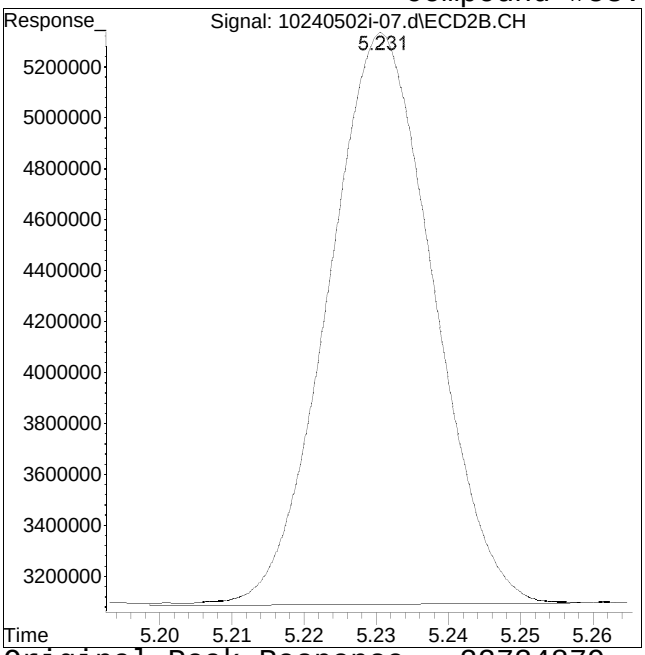


Original Peak Response = 71649788 Manual Peak Response = 71666941 M4
M4 = Poor automated baseline construction.

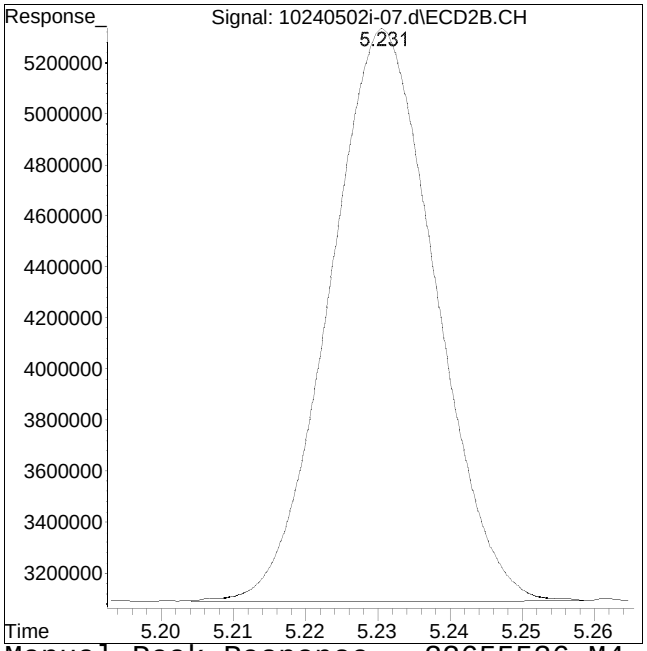
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #58: Endosulfan II #2



Original Peak Response = 22734879

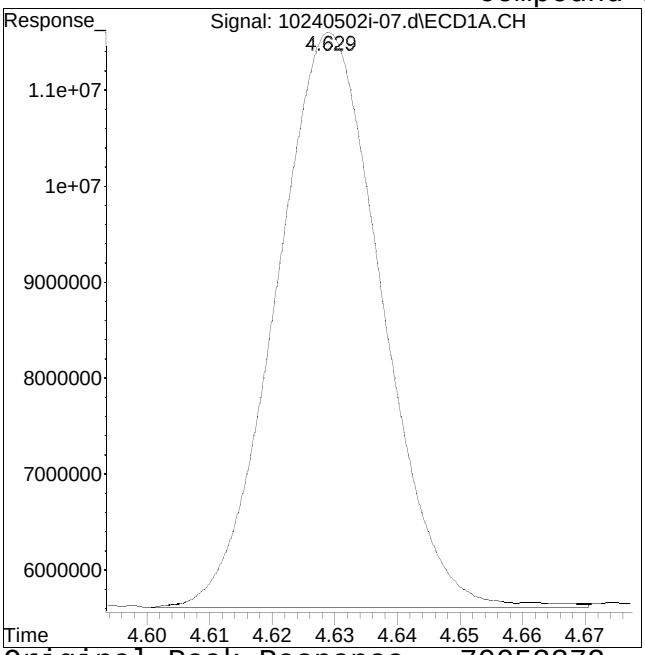


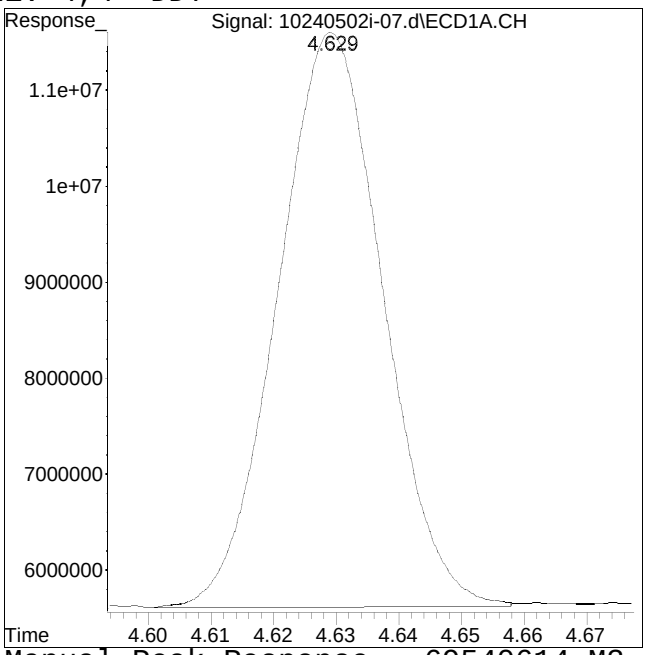
Manual Peak Response = 22655536 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #21: 4,4'-DDT



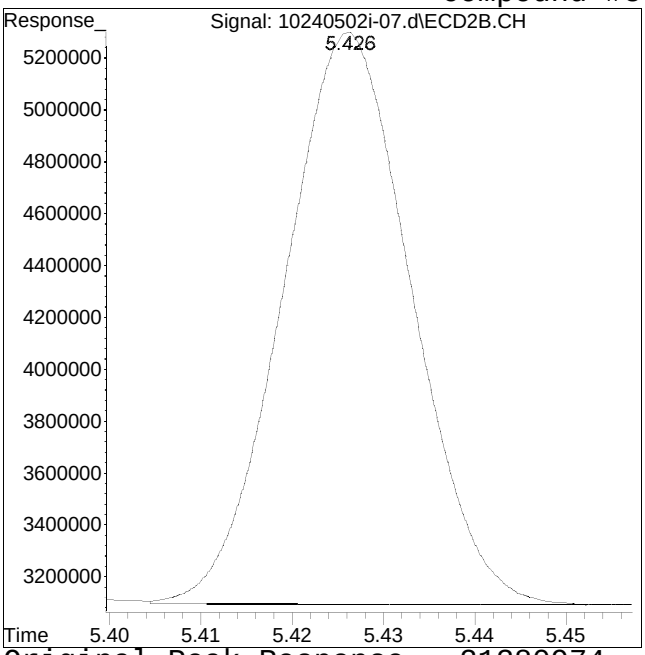


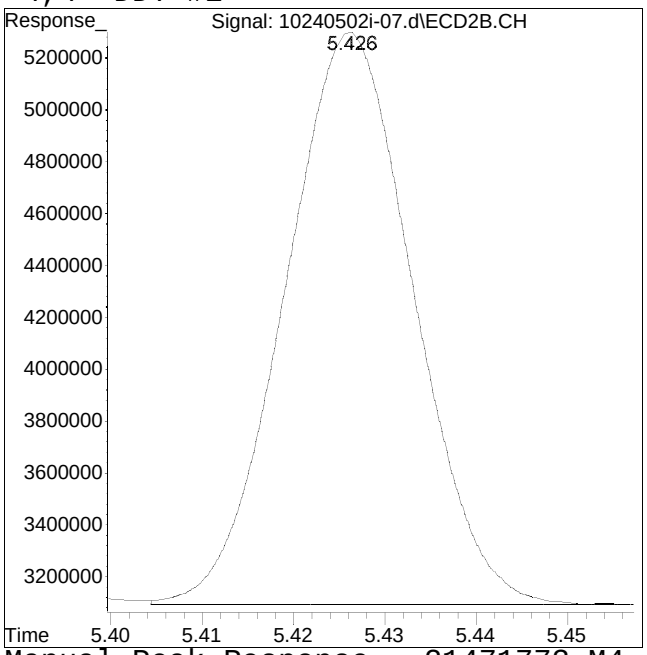
Original Peak Response = 70053372 Manual Peak Response = 69540614 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #59: 4,4'-DDT #2



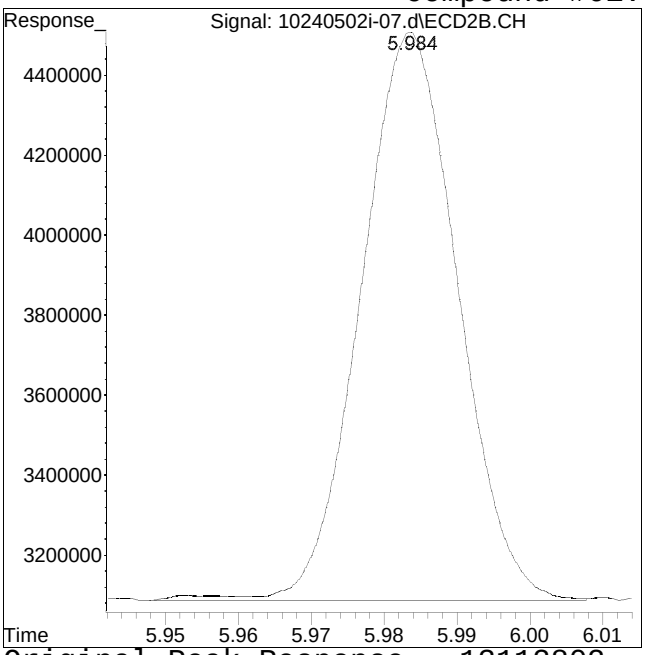


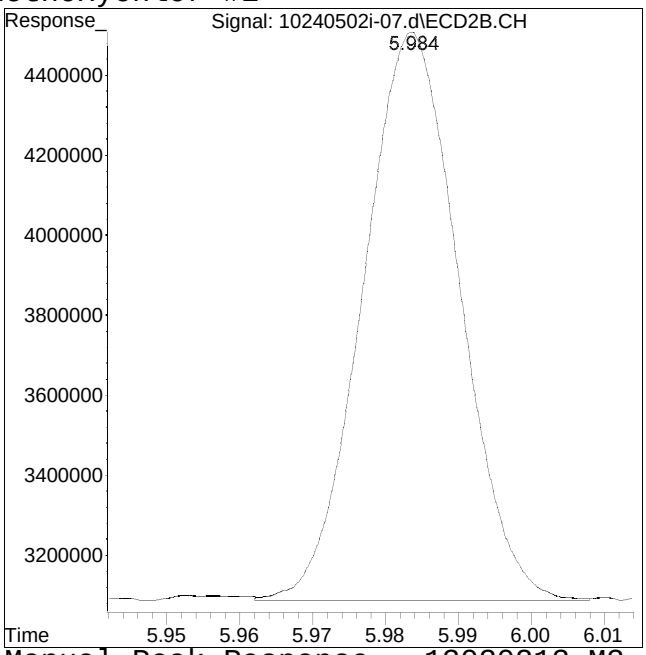
Original Peak Response = 21380974 Manual Peak Response = 21471773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #61: Methoxychlor #2



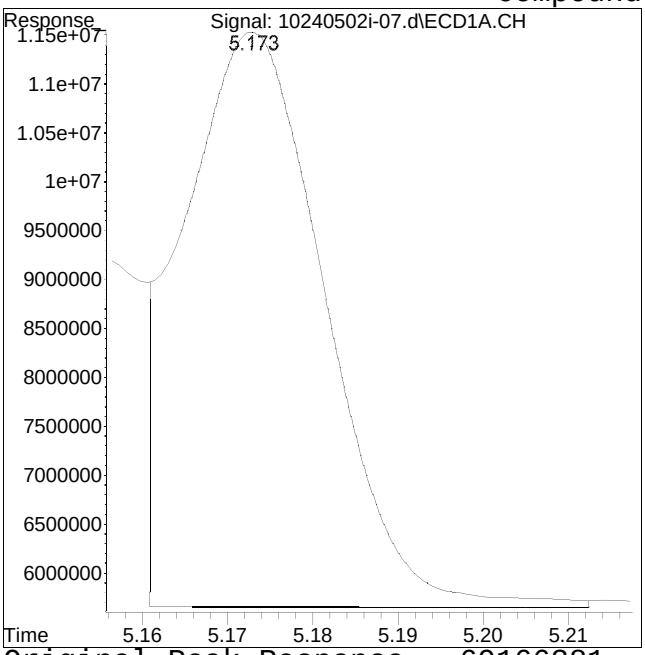


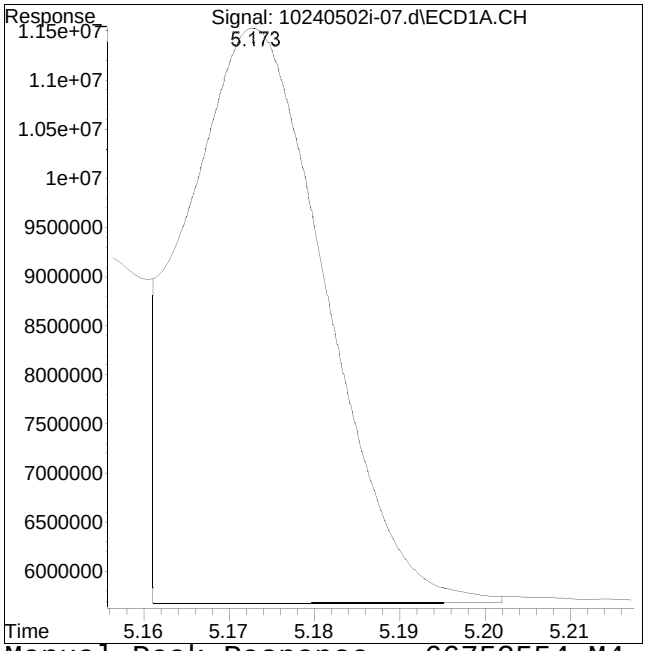
Original Peak Response = 13112802 Manual Peak Response = 13030213 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #24: Mirex



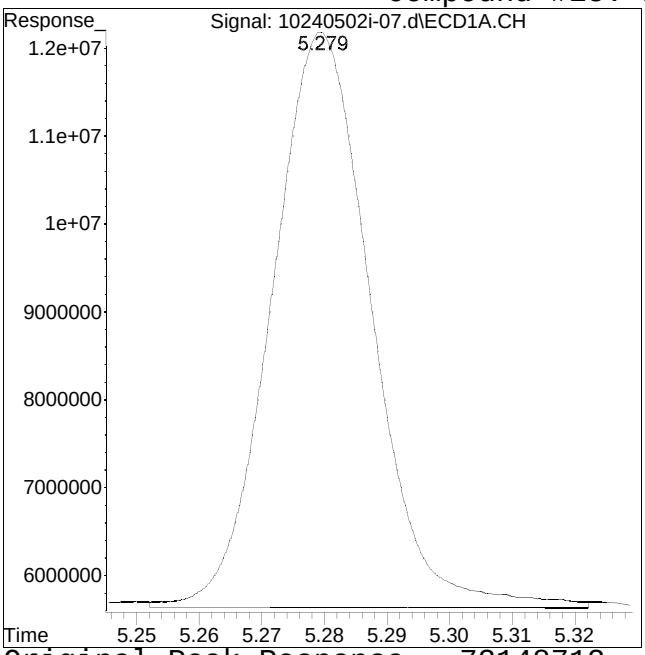


Original Peak Response = 69166381 Manual Peak Response = 66752554 M4
M4 = Poor automated baseline construction.

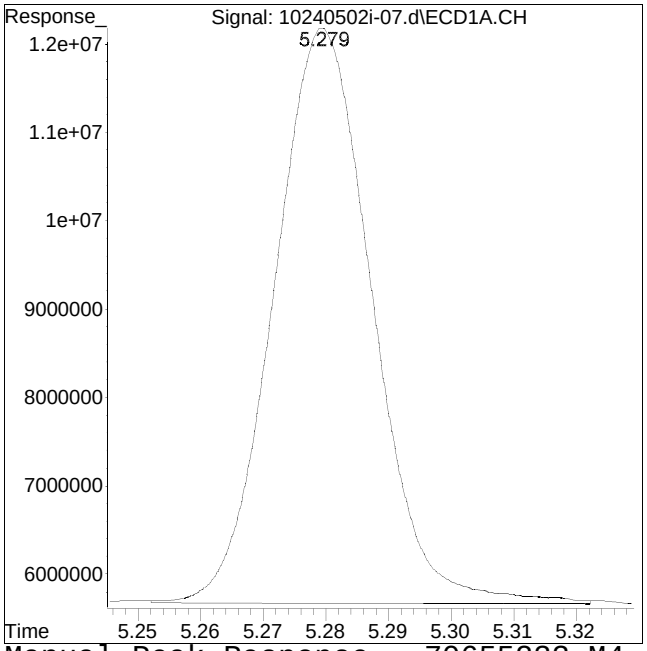
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 72148712



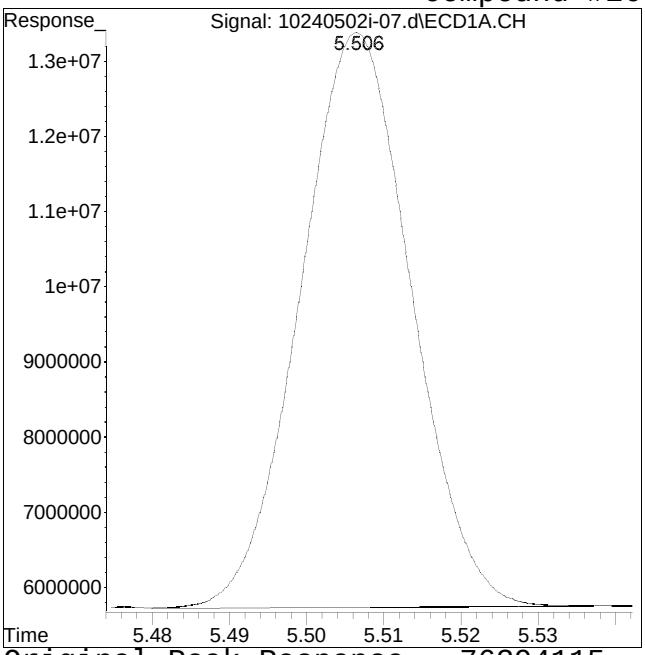
Manual Peak Response = 70655233 M4

M4 = Poor automated baseline construction.

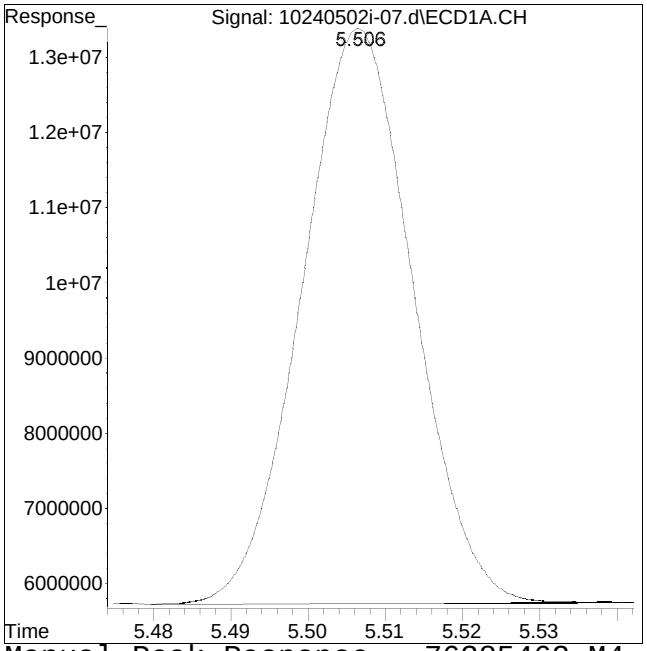
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #26: Endrin Ketone



Original Peak Response = 76394115



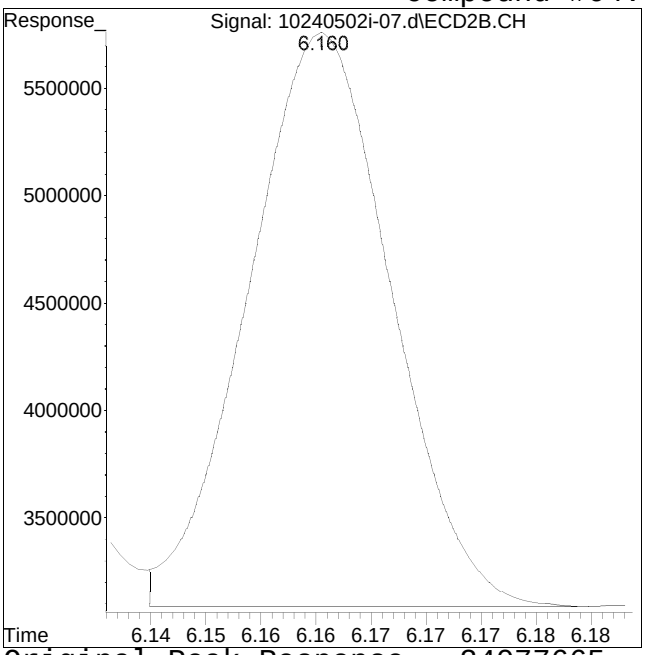
Manual Peak Response = 76385462 M4

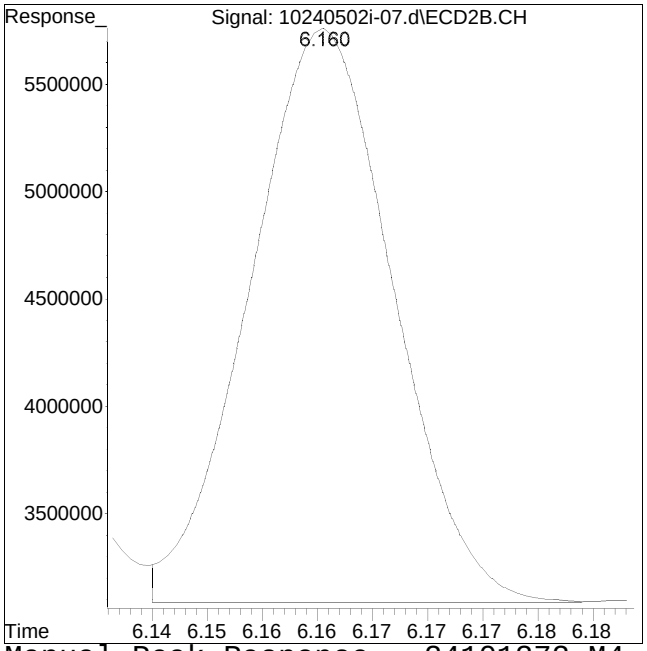
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #64: Endrin Ketone #2



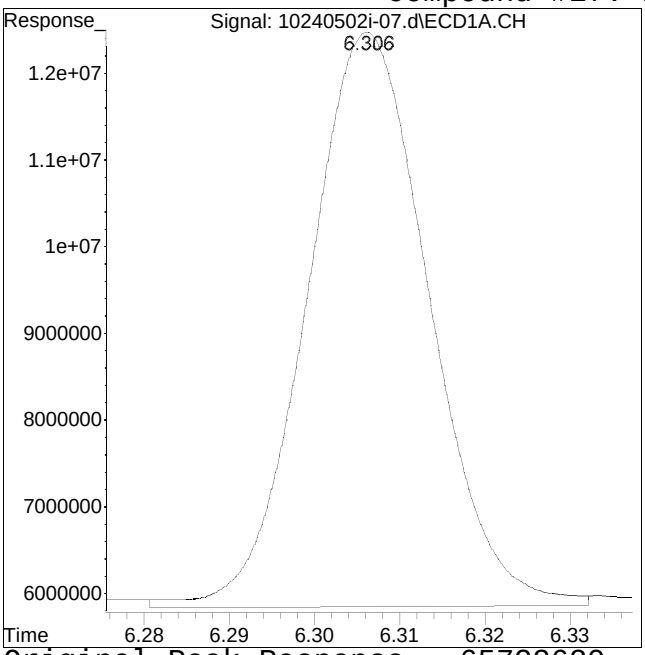


Original Peak Response = 24077665 Manual Peak Response = 24101372 M4
M4 = Poor automated baseline construction.

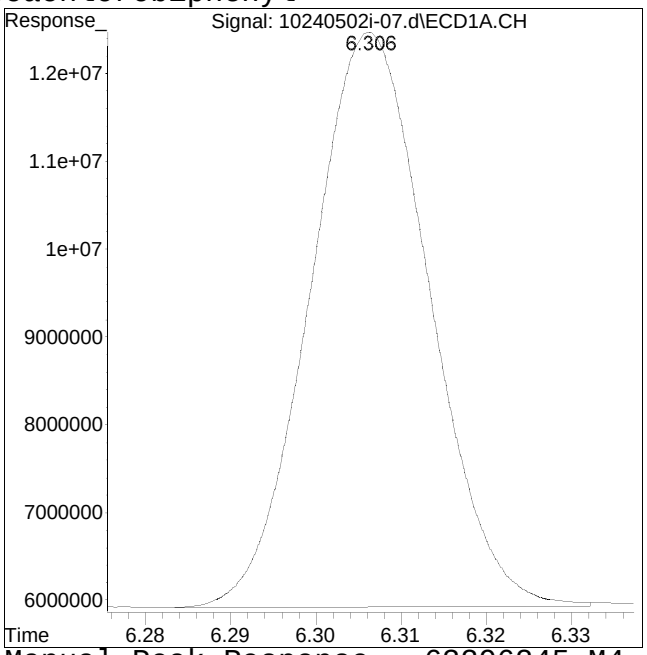
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 65722620



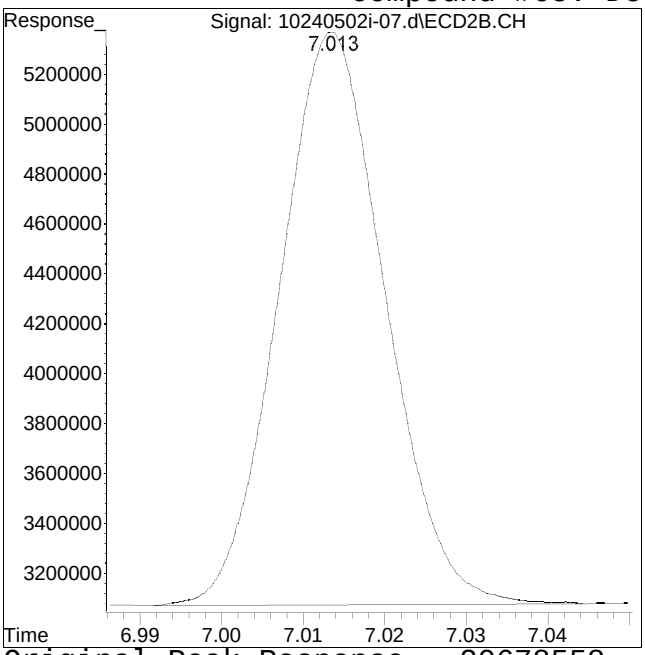
Manual Peak Response = 63296245 M4

M4 = Poor automated baseline construction.

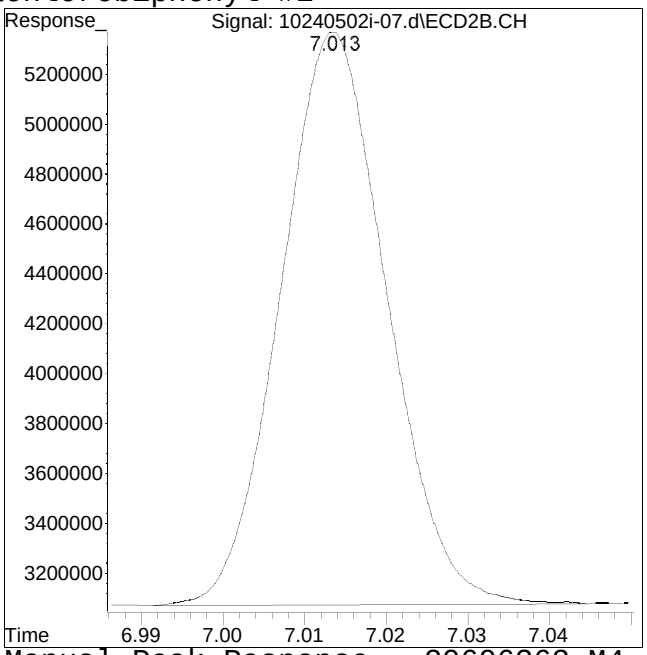
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 20678558



Manual Peak Response = 20696362 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	385.6E6	140.4E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	159.4E6	51363674	10.452M4	9.975M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.90%#	19.95%#
27) s	Decachlorobi	6.306	7.012	142.2E6	46699460	11.478	11.610M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.96%#	23.22%#
	Target Compounds						
3) t	Hexachlorobe	1.876	2.251	173.4E6	59098054	10.689M4	10.453M4
4) t	alpha-BHC	1.975	2.350	220.8E6	70164944	9.230M3	8.618M4
5) t	gamma-BHC (l	2.179	2.644	206.8E6	66291891	9.545M3	8.979M3
6) t	beta-BHC	2.235	2.709	95941761	32405359	11.033M4	10.526M4
7) t	delta-BHC	2.363	2.983	205.7E6	65421798	9.293M4	8.617M4
8) t	Heptachlor	2.526	3.053	204.9E6	67313432	10.447M4	9.749M4
9) t	Aldrin	2.769	3.381	191.2E6	60397060	10.064M3	9.221M4
10) t	Alachlor	2.892	3.258	31907443	11588481	13.189M4	12.825M4
11) t	Chlorpyrifos	2.982	3.620	101.1E6	36265370	13.155M4	12.174M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.316	4.011	184.8E6	61538088	10.750M4	10.108M4
13)	t	gamma-Chlord	3.440	4.233	165.1E6	53940119	10.285M4	9.717M4
14)	t	alpha-Chlord	3.574	4.398	187.9E6	61324507	10.480M4	9.918M4
15)	t	4,4'-DDE	3.671	4.587	179.1E6	55449072	9.916	9.002M4
16)	t	Endosulfan I	3.712	4.458	175.6E6	57518700	10.794M4	10.113M4
17)	t	Dieldrin	3.973	4.743	180.5E6	56499466	10.291	9.435M4
18)	t	Endrin	4.228	5.036	186.5E6	58543586	10.411M4	9.575
19)	t	4,4'-DDD	4.335	5.151	146.8E6	44692333	10.120M4	9.075M4
20)	t	Endosulfan I	4.467	5.230	166.6E6	53350699	11.636M4	10.825
21)	t	4,4'-DDT	4.628	5.426	161.4E6	51466582	10.104M4	9.442M4
22)	t	Endrin Aldeh	4.886	5.523	122.1E6	39526359	9.795	9.113M4
23)	t	Methoxychlor	5.115	5.983	95700295	30252401	12.211M4	11.107M4
24)	t	Mirex	5.172	6.128	146.3E6	48238176	11.760M4	11.731
25)	t	Endosulfan S	5.279	5.749	160.8E6	51725726	11.060M4	10.312M4
26)	t	Endrin Keton	5.506	6.160	177.2E6	56937699	10.953M4	10.293
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

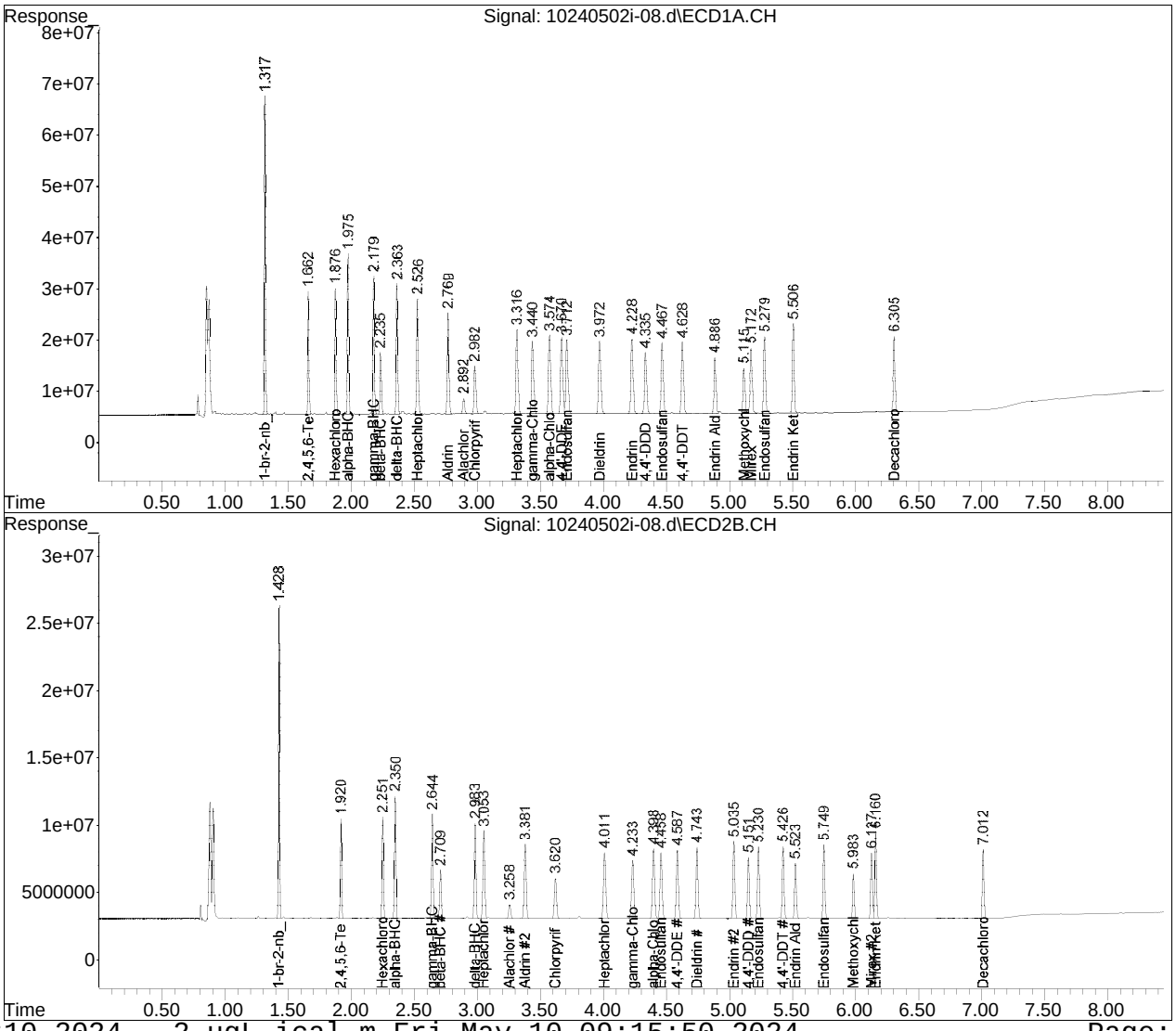
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

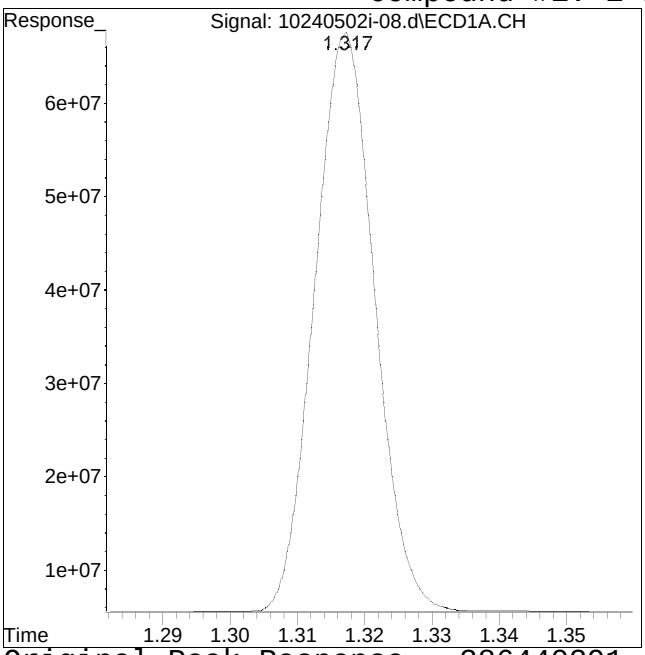
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

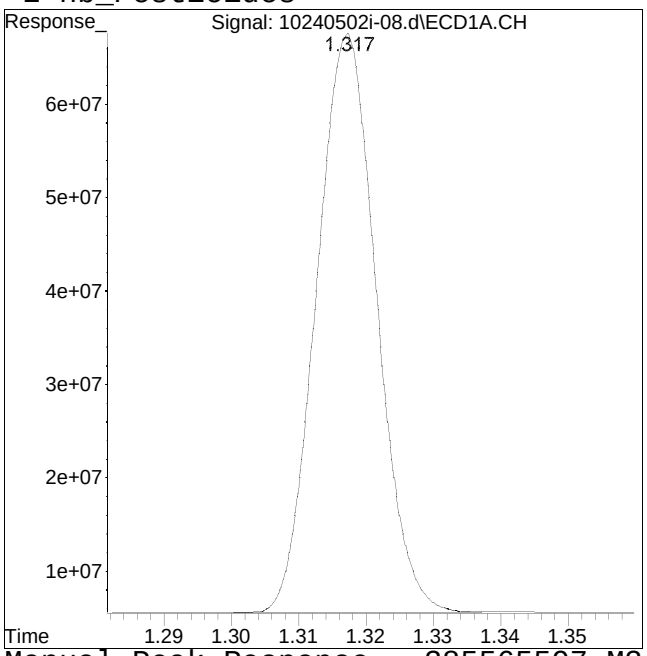


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #1: 1-br-2-nb_Pesticides





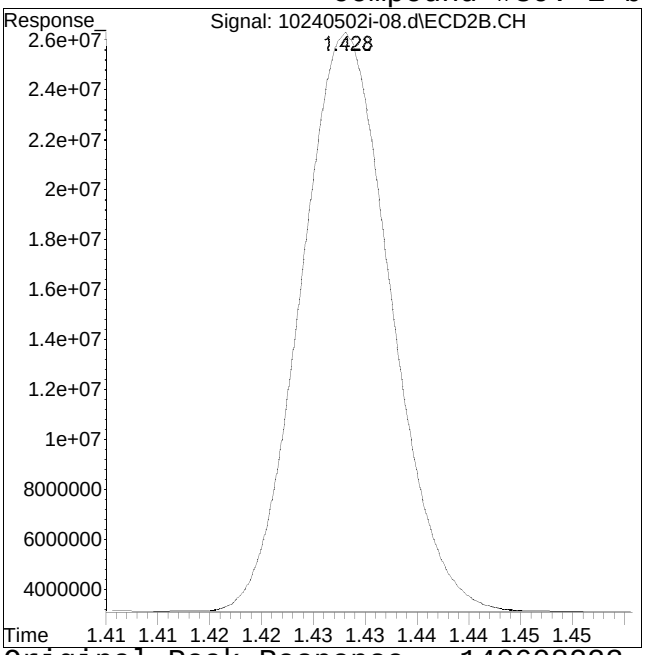
Original Peak Response = 386440391 Manual Peak Response = 385565597 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

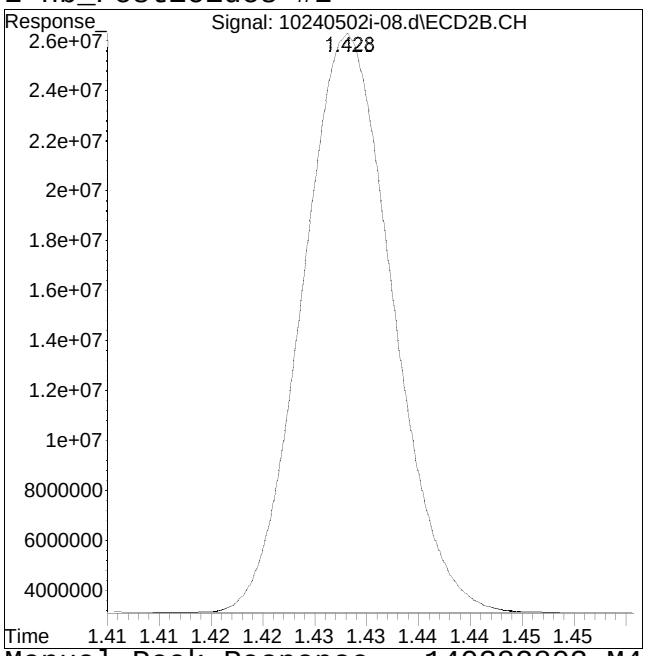
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 140608223



Manual Peak Response = 140382803 M4

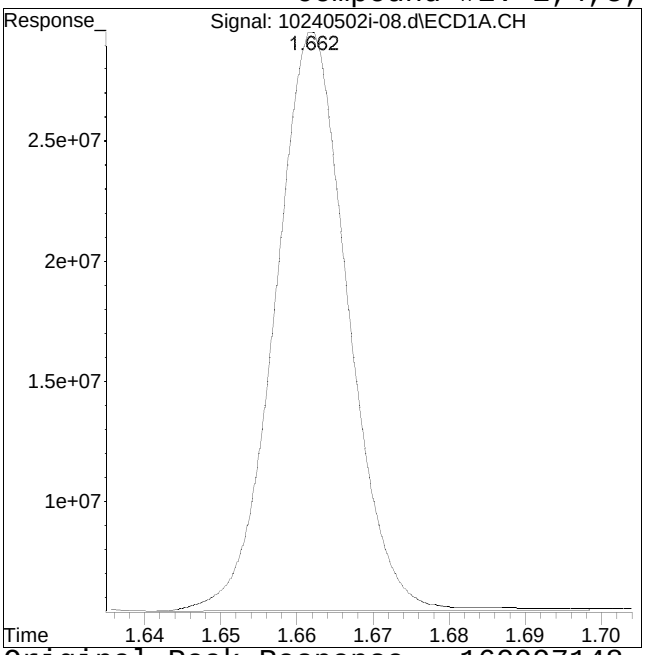
M4 = Poor automated baseline construction.

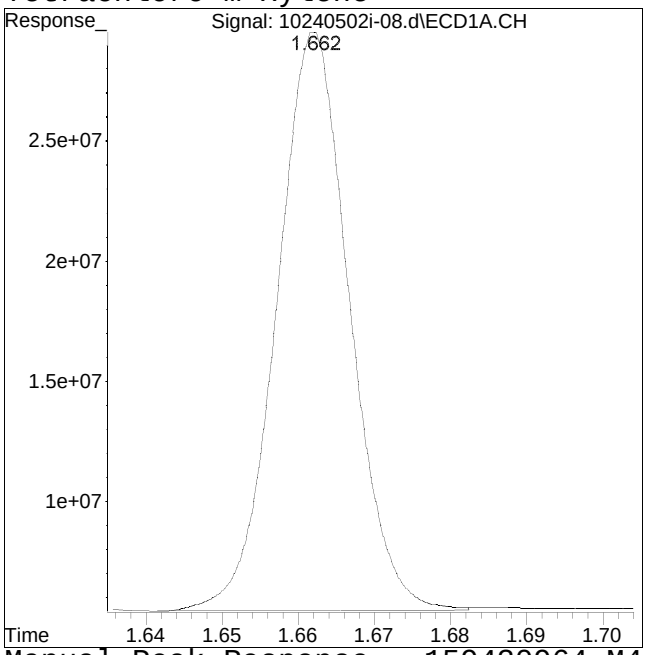
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



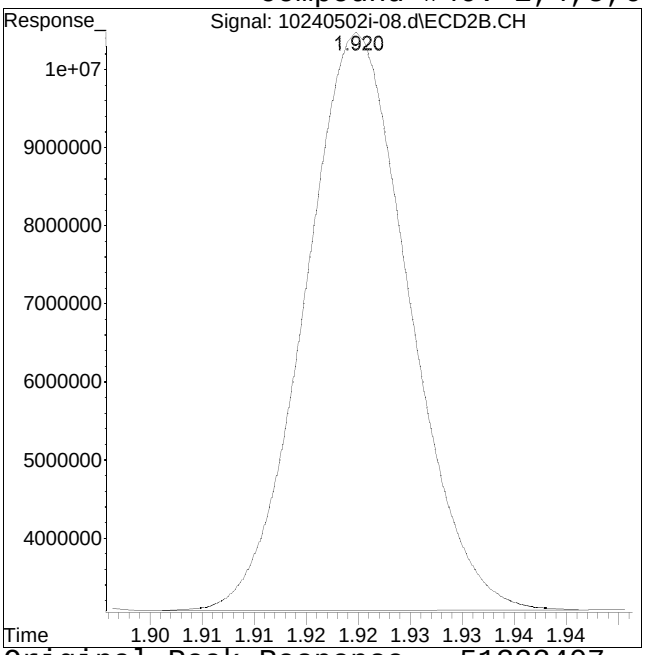


Original Peak Response = 160997148 Manual Peak Response = 159430964 M4
M4 = Poor automated baseline construction.

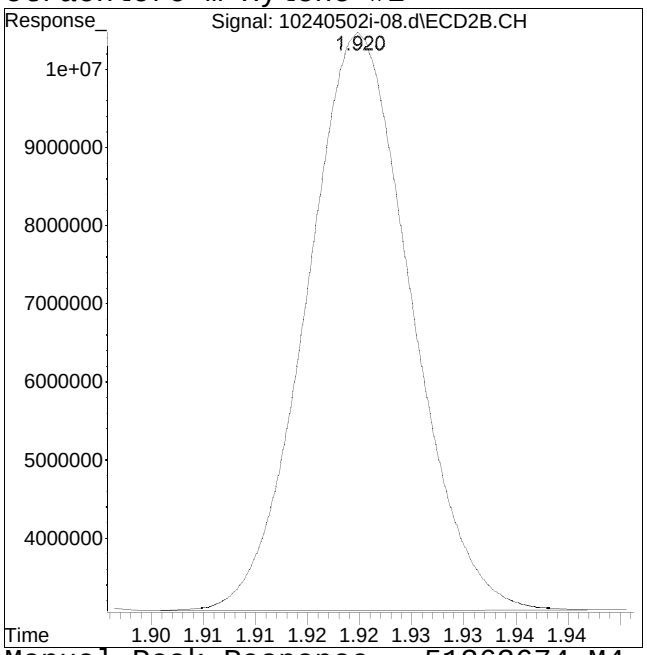
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 51322407



Manual Peak Response = 51363674 M4

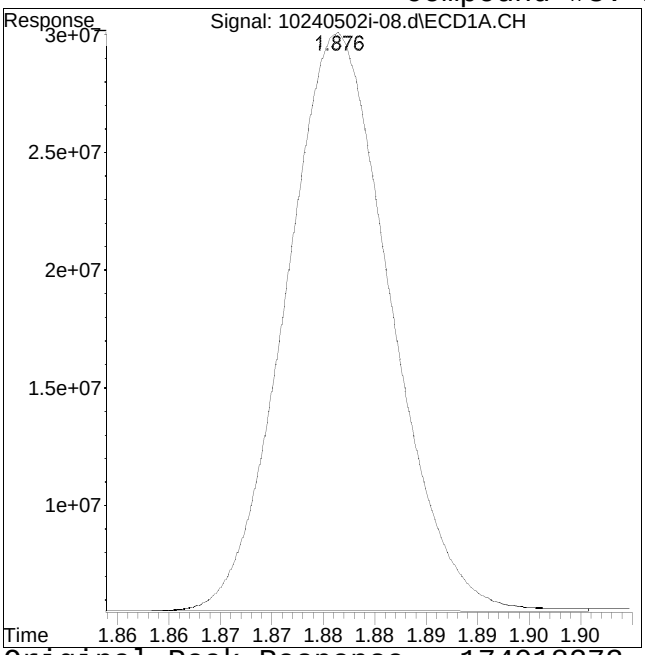
M4 = Poor automated baseline construction.

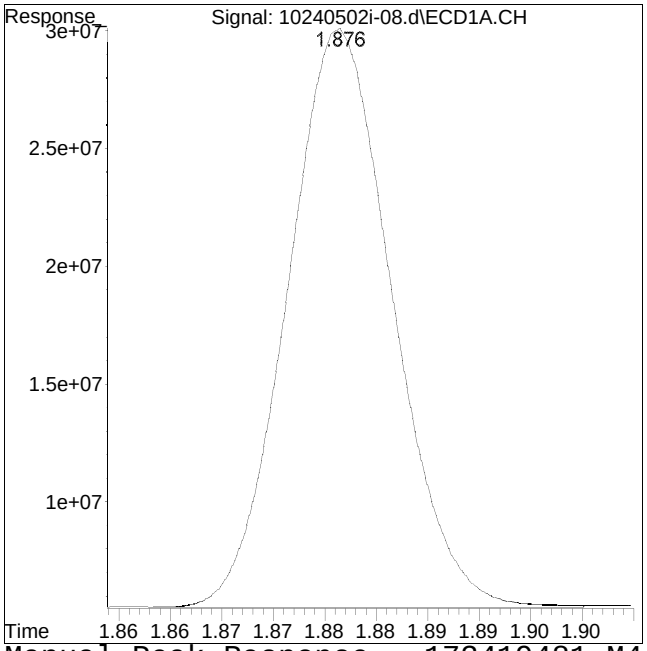
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #3: Hexachlorobenzene



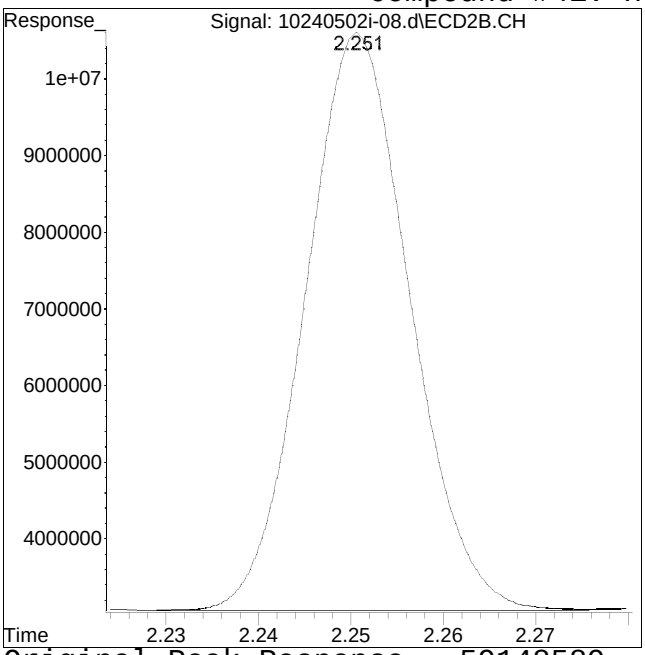


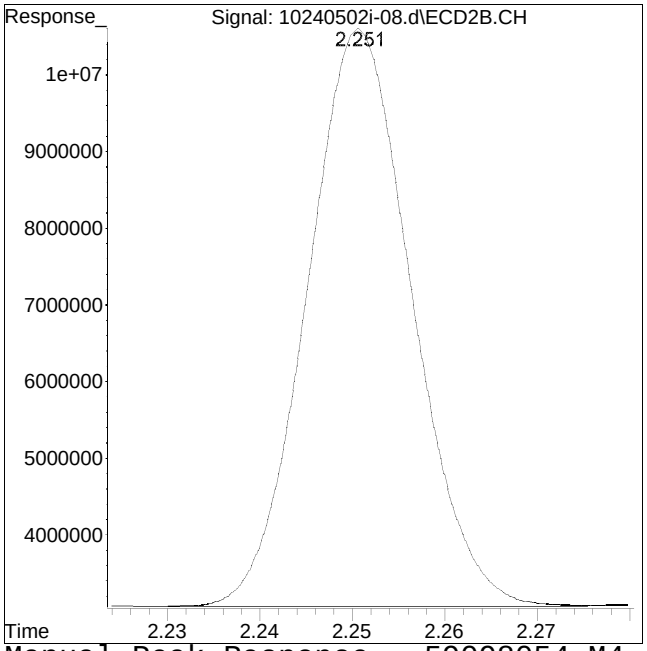
Original Peak Response = 174018373 Manual Peak Response = 173419481 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #41: Hexachlorobenzene #2



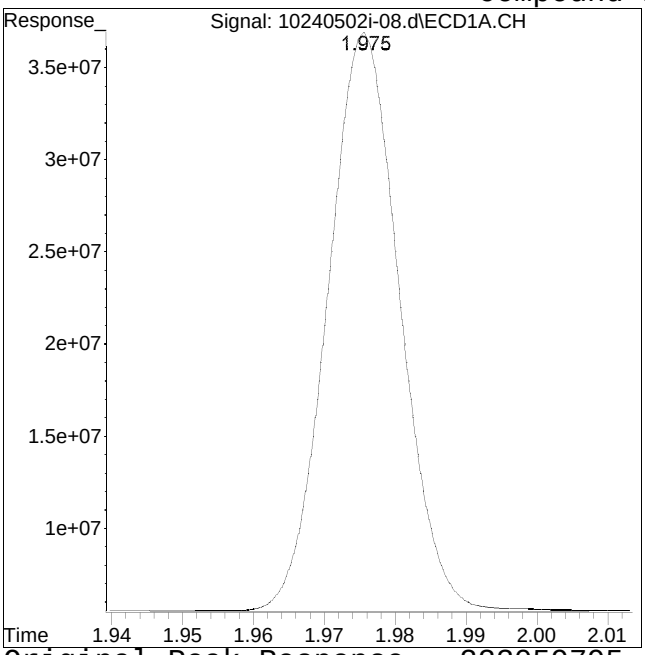


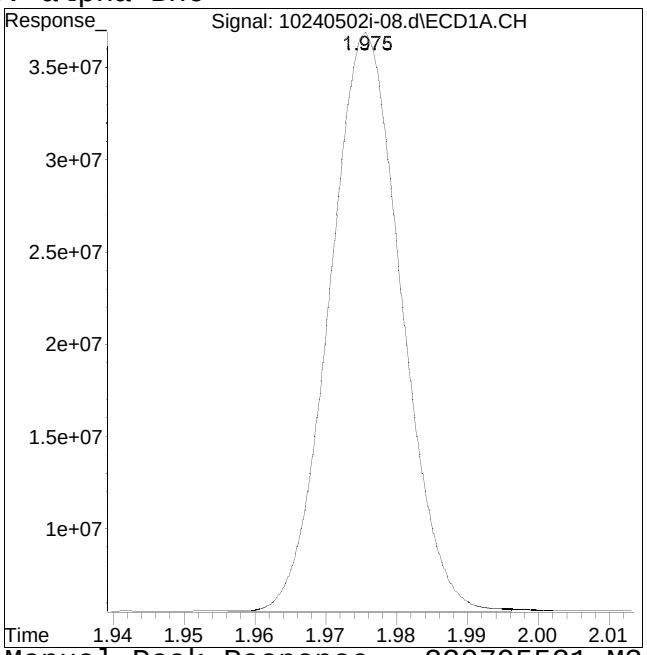
Original Peak Response = 59148589 Manual Peak Response = 59098054 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #4: alpha-BHC



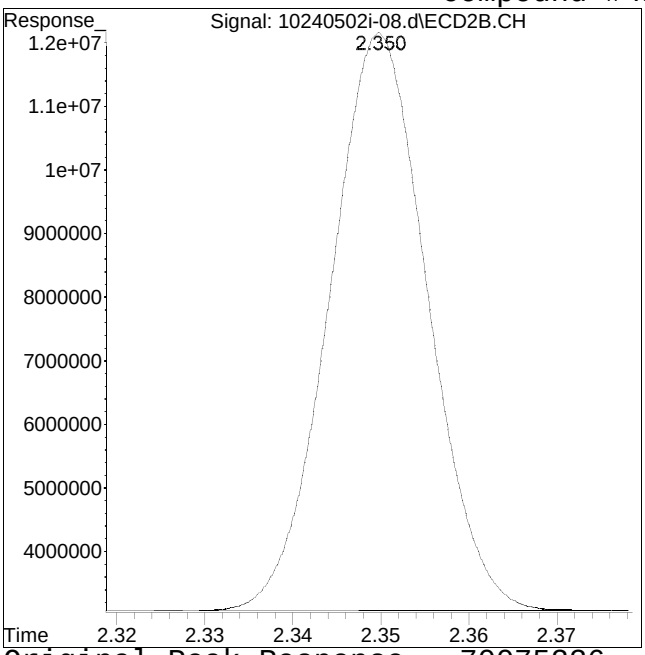


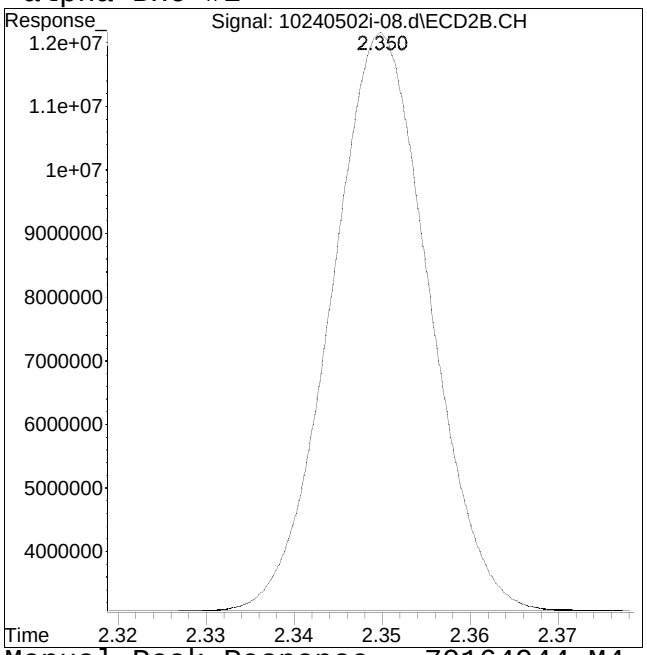
Original Peak Response = 223059795 Manual Peak Response = 220795521 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #42: alpha-BHC #2



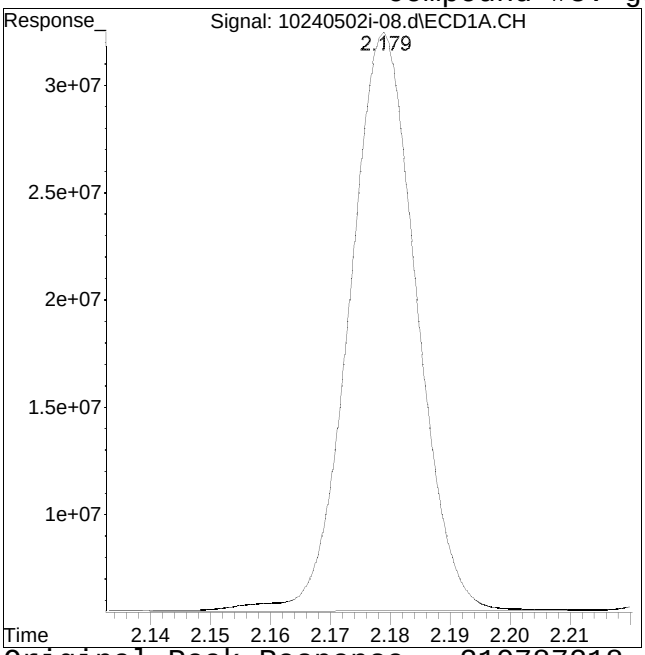


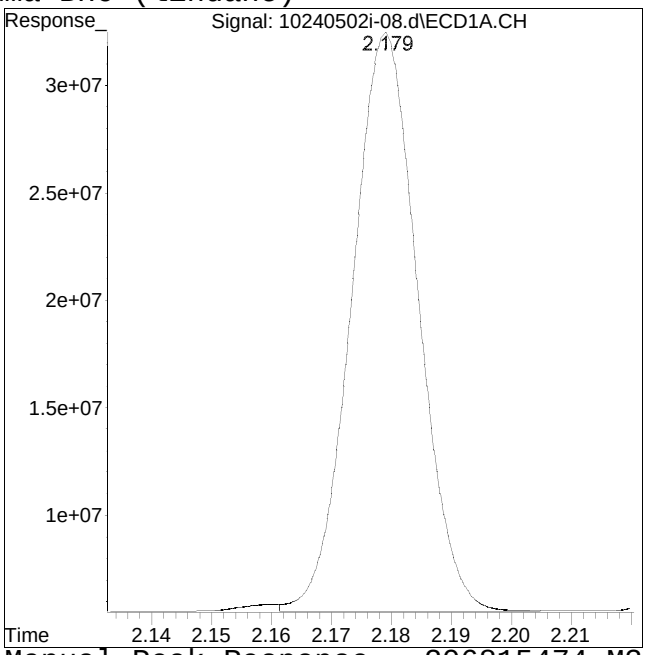
Original Peak Response = 70075236 Manual Peak Response = 70164944 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #5: gamma-BHC (lindane)



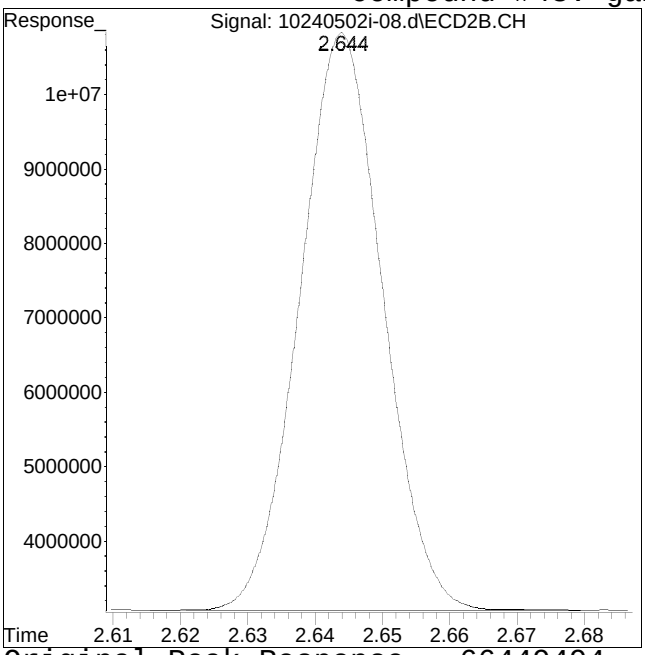


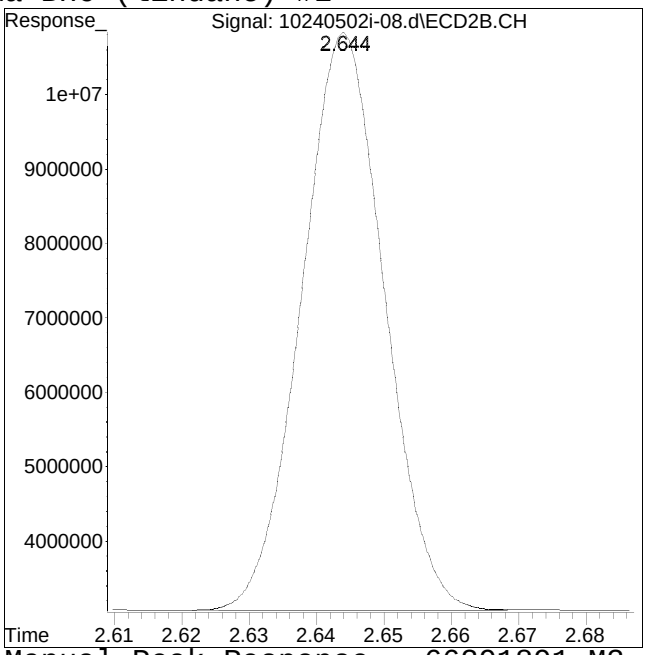
Original Peak Response = 210787218 Manual Peak Response = 206815474 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #43: gamma-BHC (lindane) #2



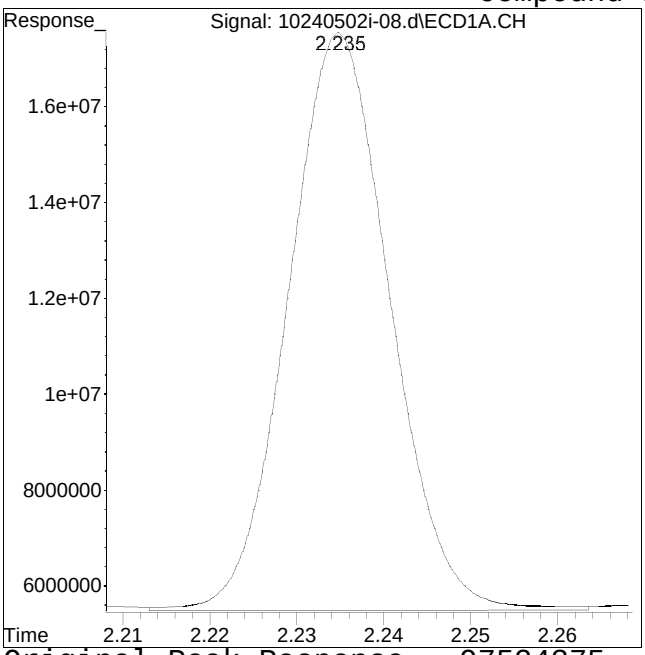


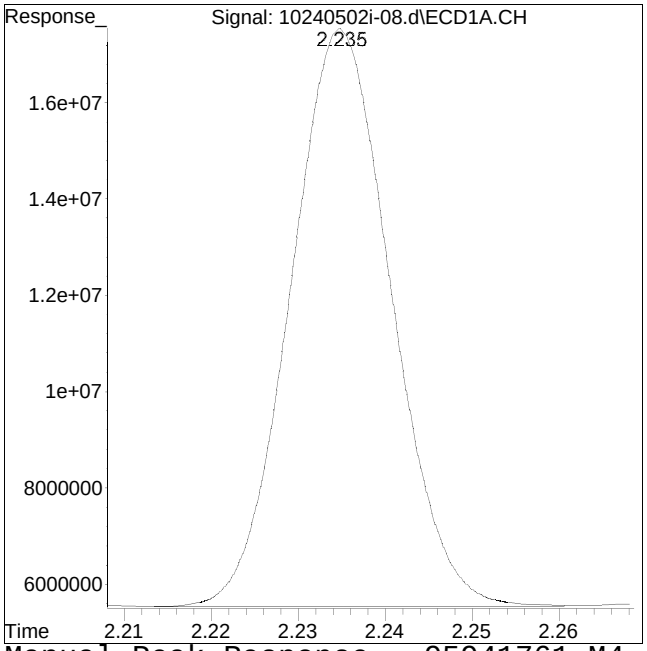
Original Peak Response = 66449494 Manual Peak Response = 66291891 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #6: beta-BHC



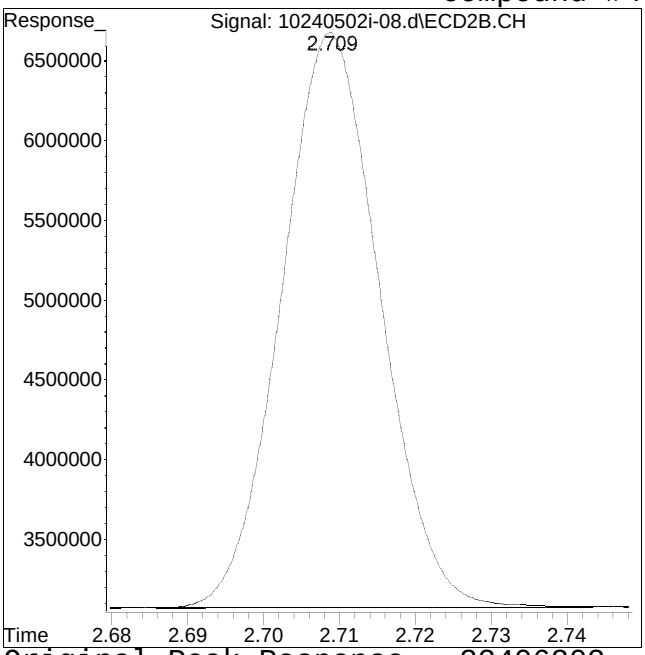


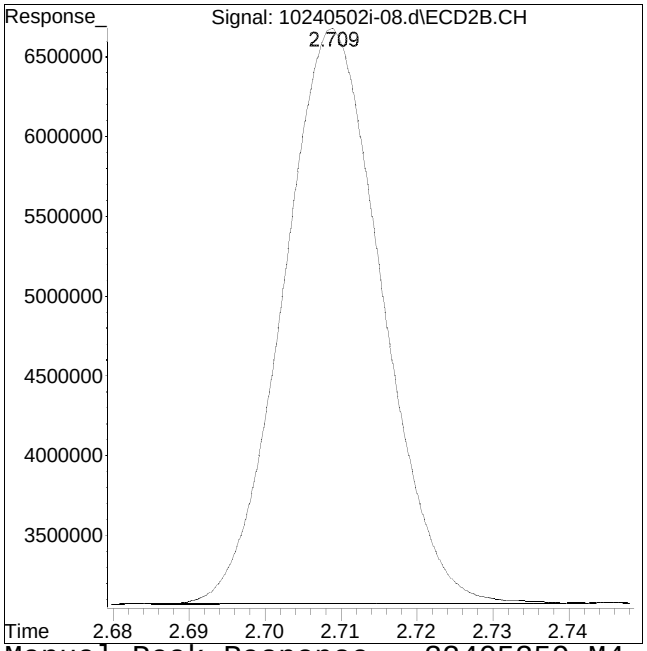
Original Peak Response = 97524375 Manual Peak Response = 95941761 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #44: beta-BHC #2



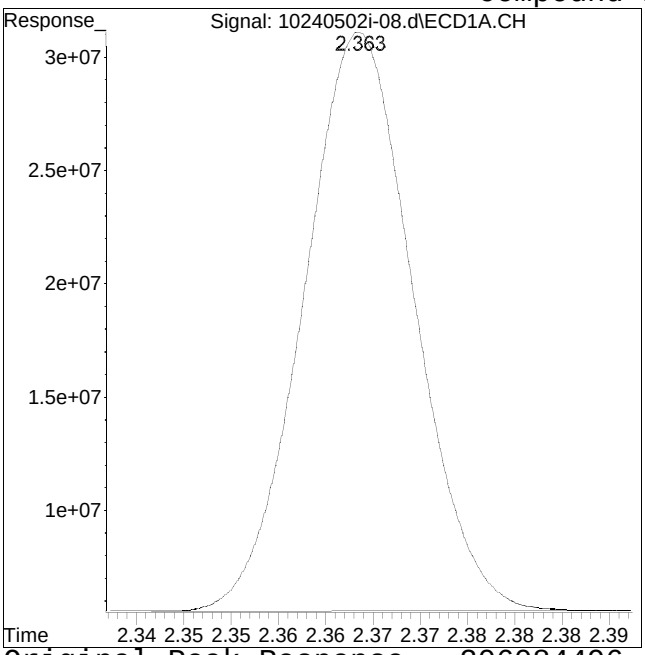


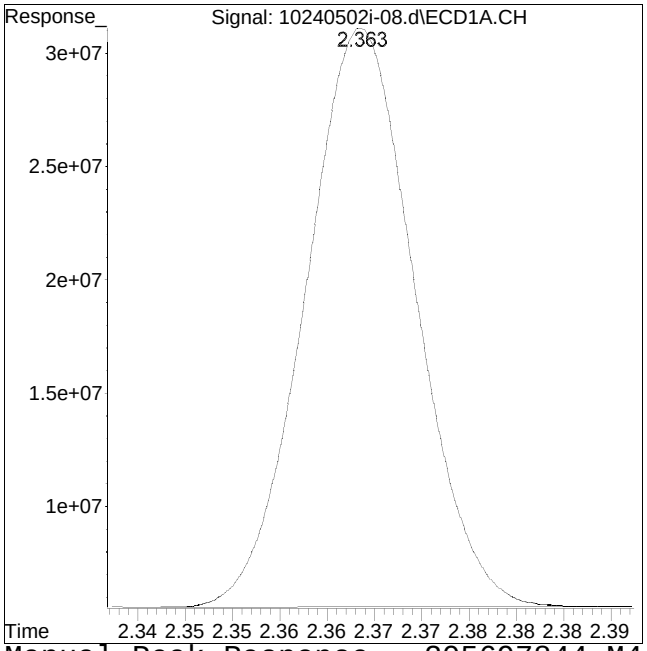
Original Peak Response = 32406202 Manual Peak Response = 32405359 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #7: delta-BHC



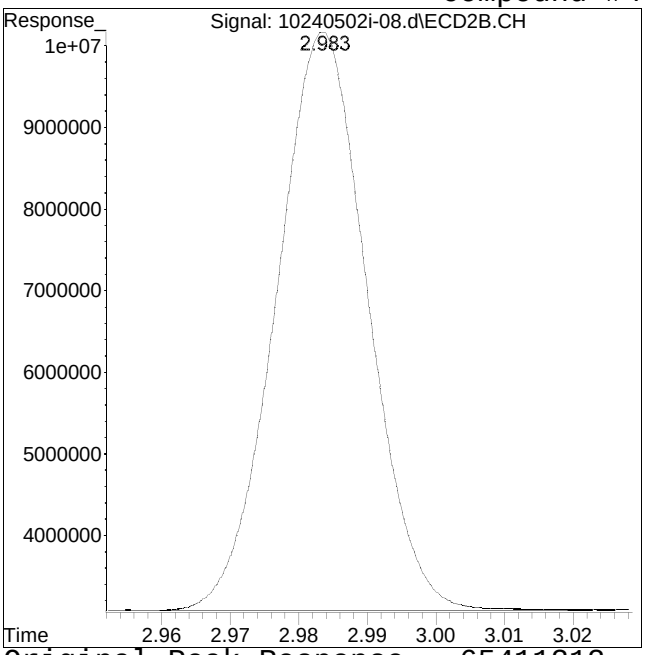


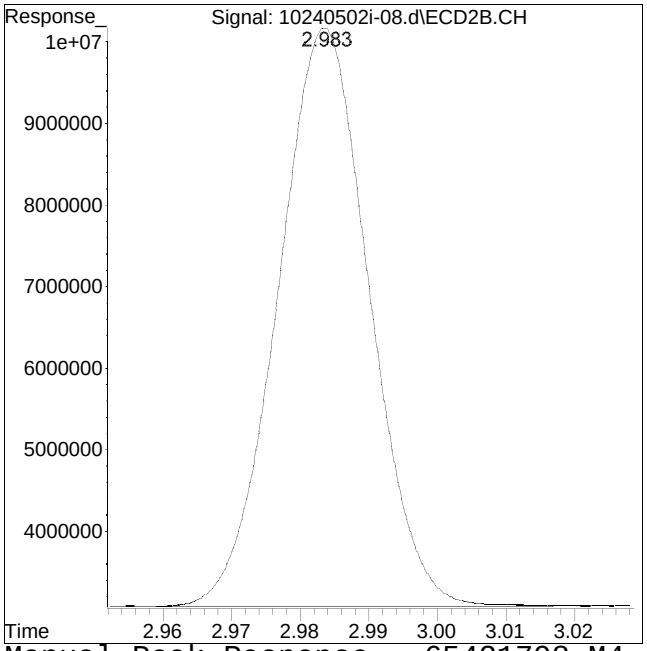
Original Peak Response = 206084496 Manual Peak Response = 205697844 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #45: delta-BHC #2



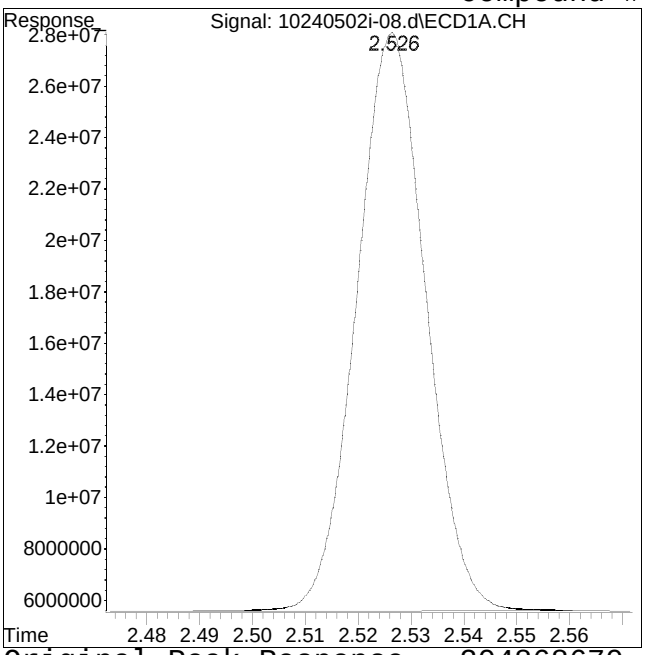


Original Peak Response = 65411212 Manual Peak Response = 65421798 M4
M4 = Poor automated baseline construction.

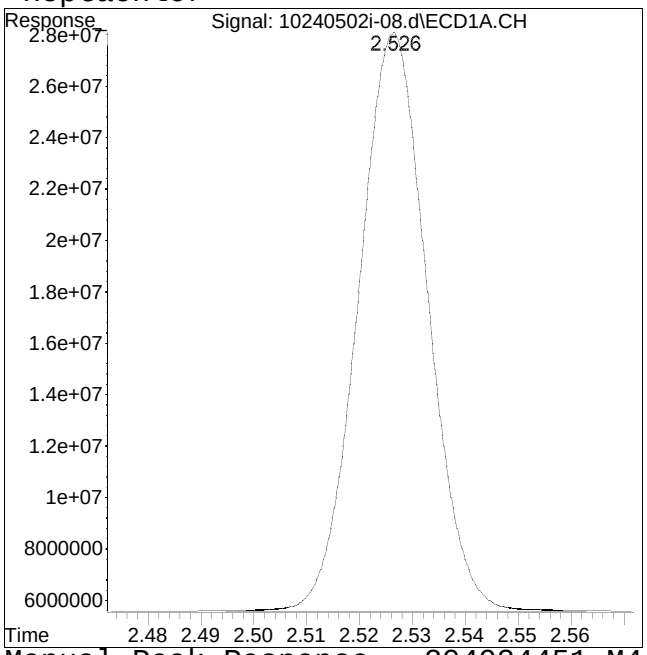
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #8: Heptachlor



Original Peak Response = 204868670



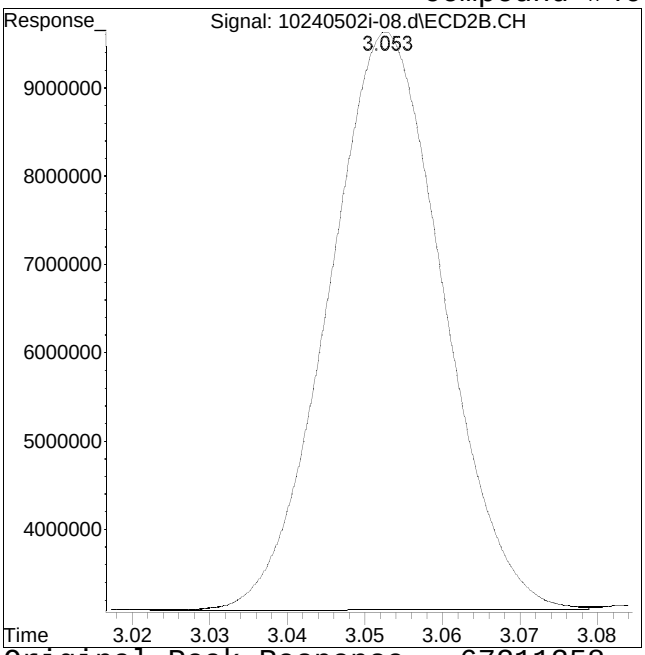
Manual Peak Response = 204924451 M4

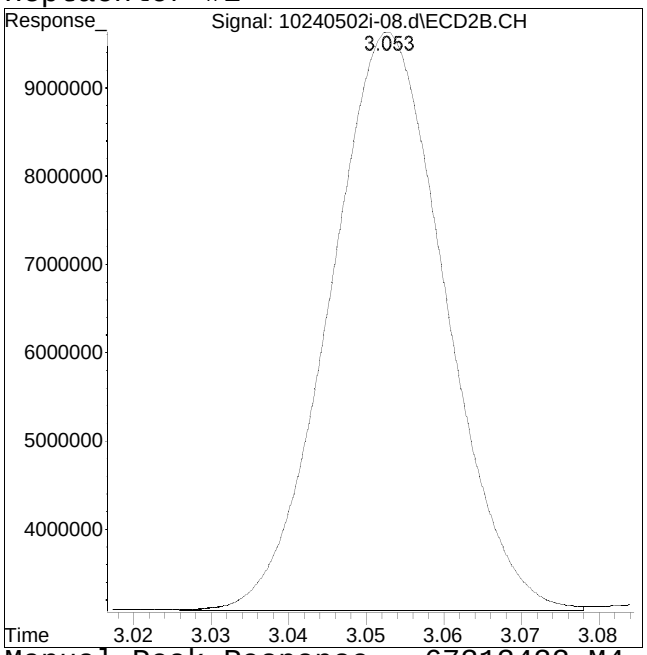
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #46: Heptachlor #2



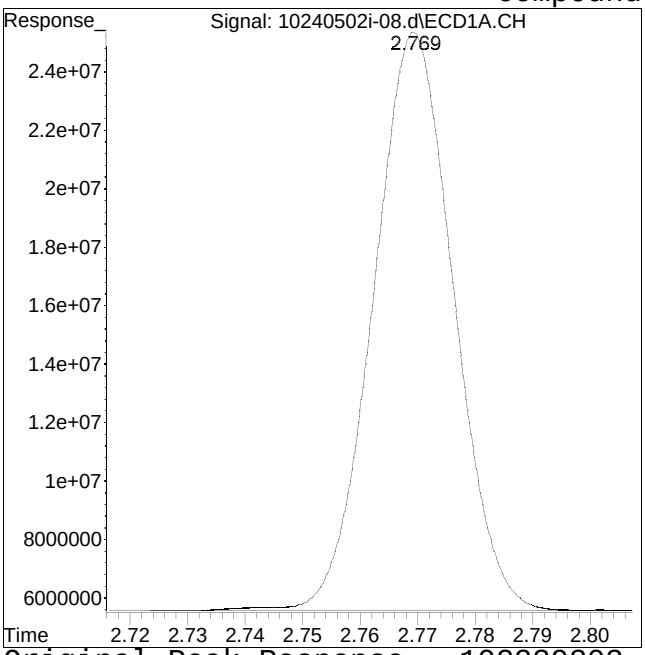


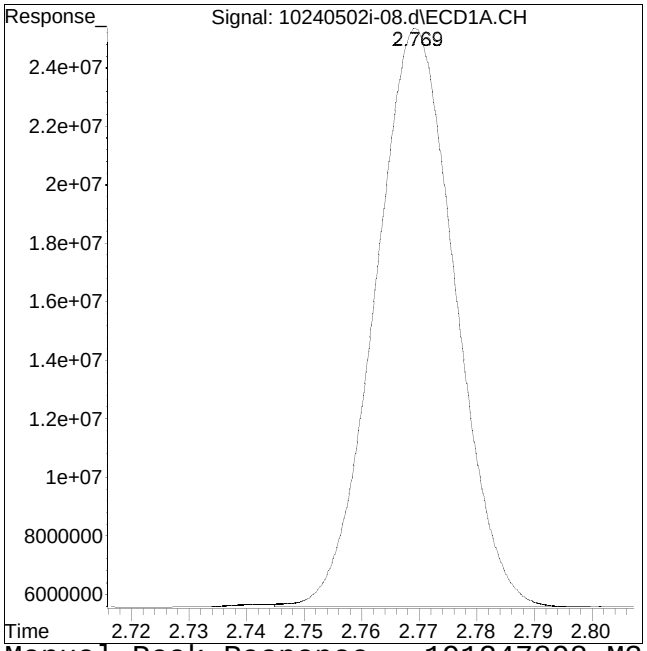
Original Peak Response = 67211258 Manual Peak Response = 67313432 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #9: Aldrin



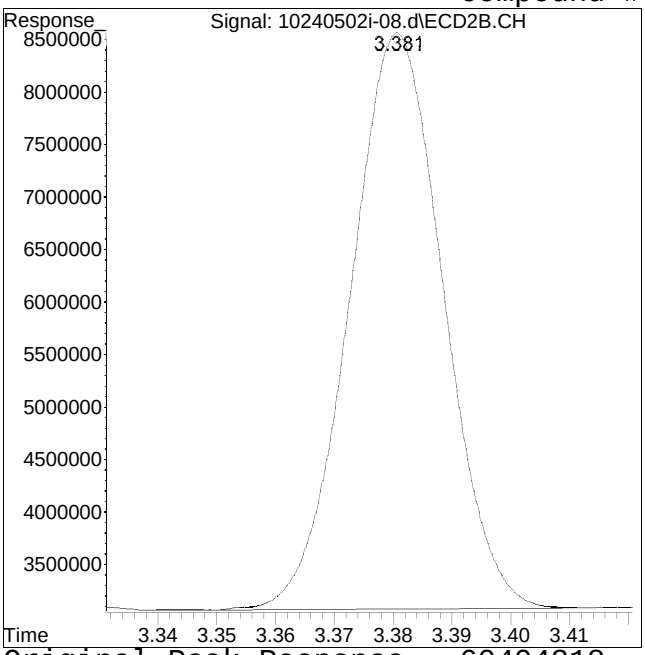


Original Peak Response = 192339303 Manual Peak Response = 191247898 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

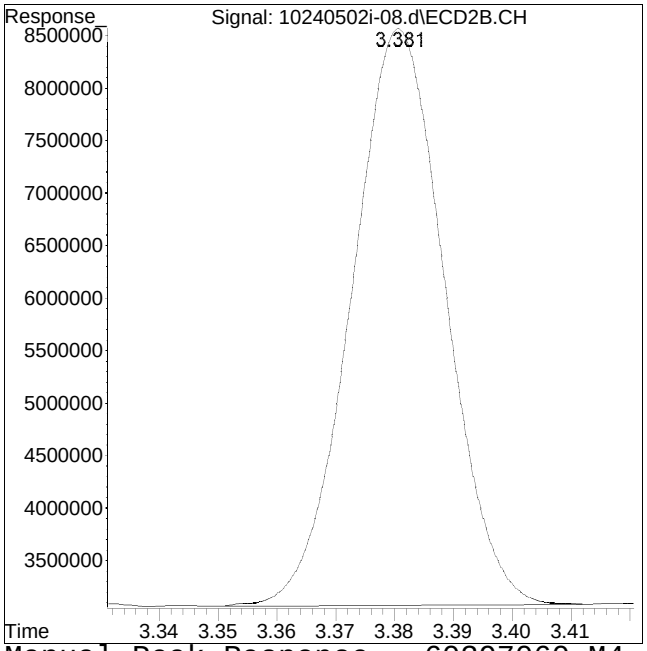
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #47: Aldrin #2



Original Peak Response = 60404218



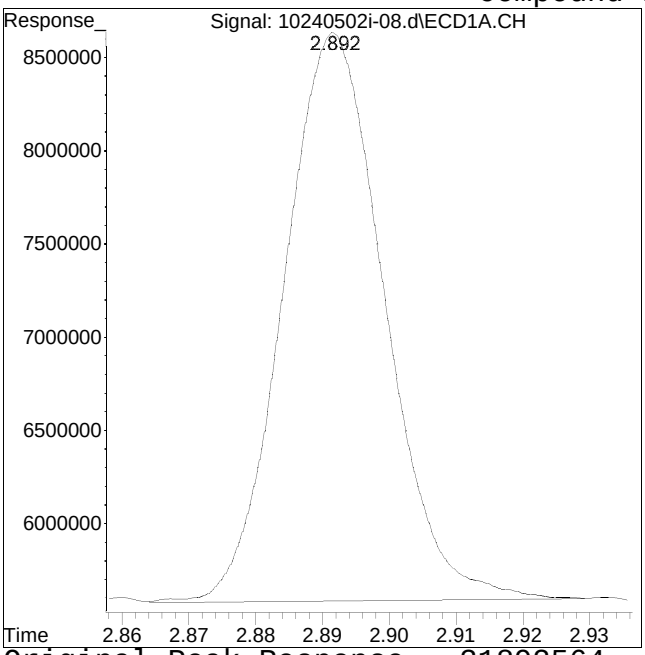
Manual Peak Response = 60397060 M4

M4 = Poor automated baseline construction.

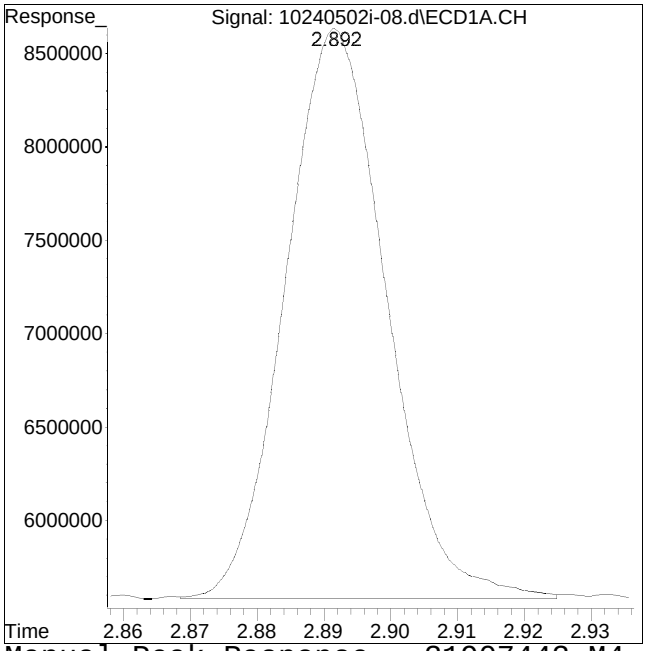
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #10: Alachlor



Original Peak Response = 31892564

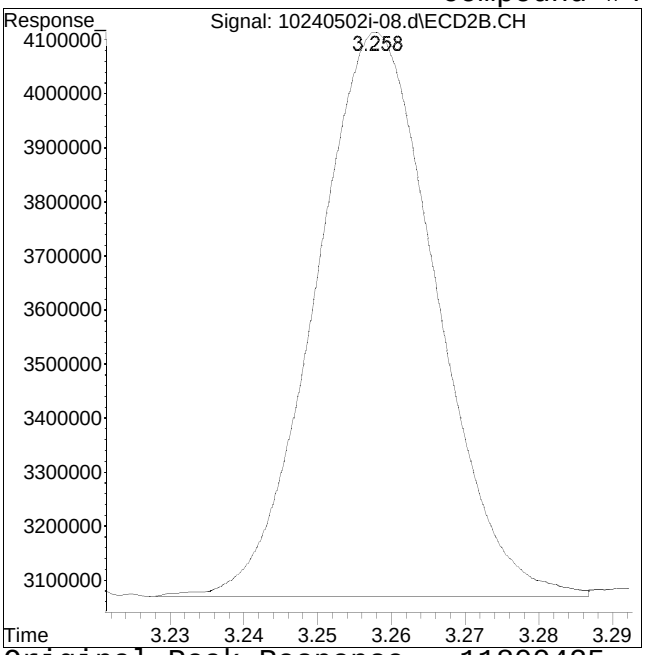


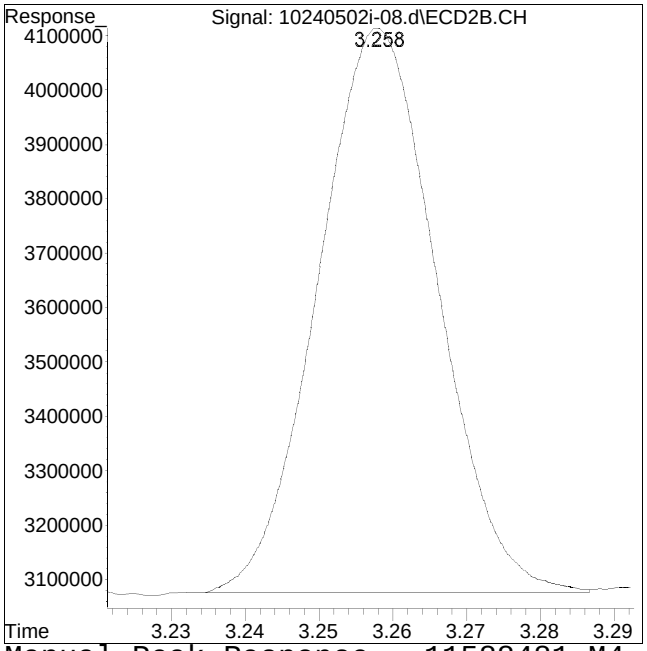
Manual Peak Response = 31907443 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #48: Alachlor #2



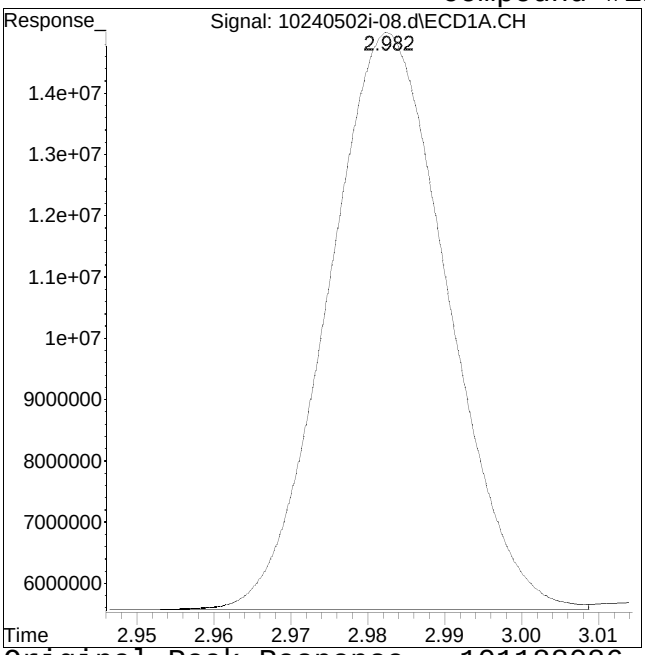


Original Peak Response = 11800425 Manual Peak Response = 11588481 M4
M4 = Poor automated baseline construction.

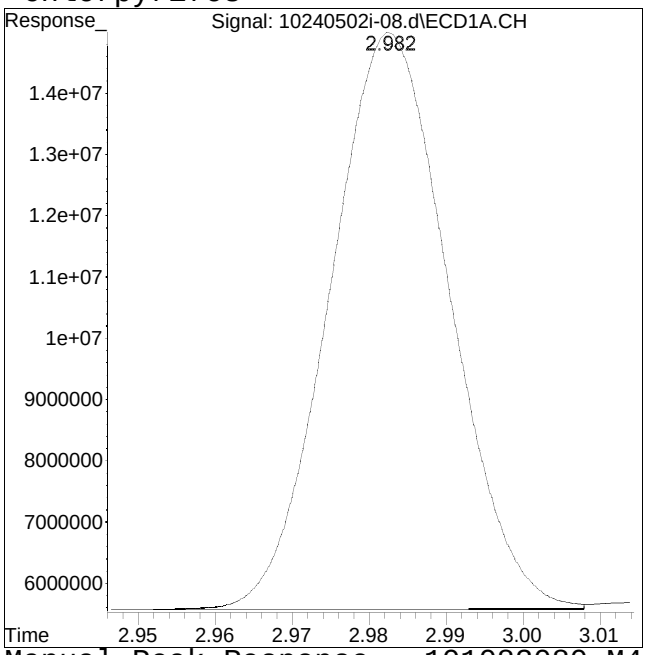
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #11: Chlorpyrifos



Original Peak Response = 101188086



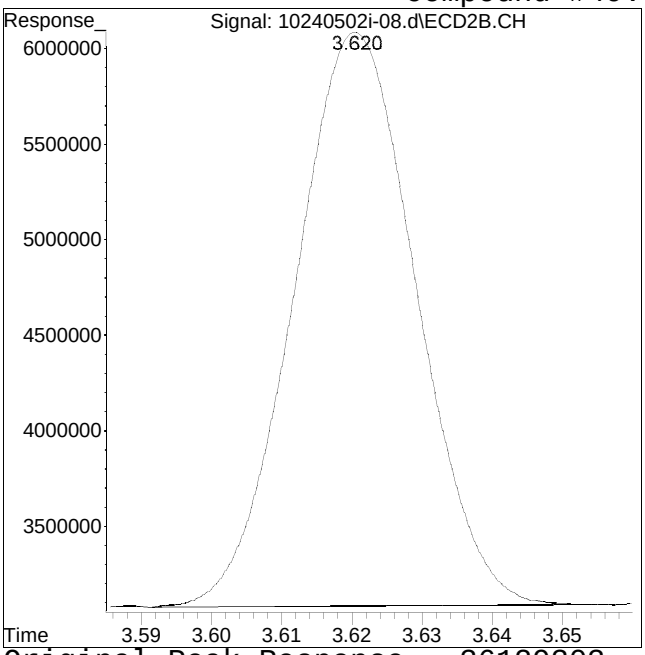
Manual Peak Response = 101083080 M4

M4 = Poor automated baseline construction.

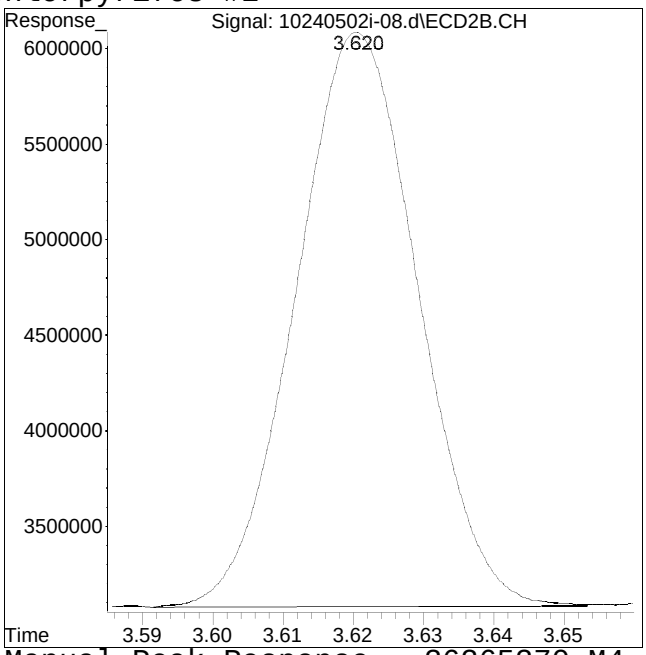
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 36129303



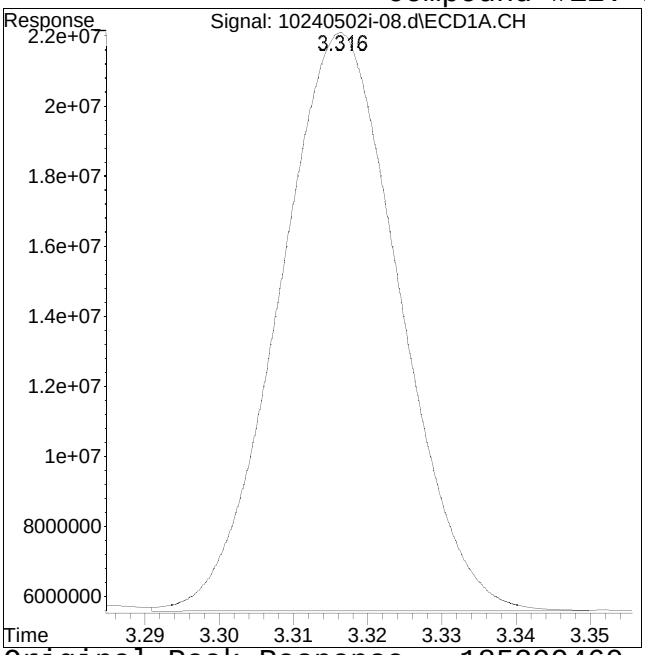
Manual Peak Response = 36265370 M4

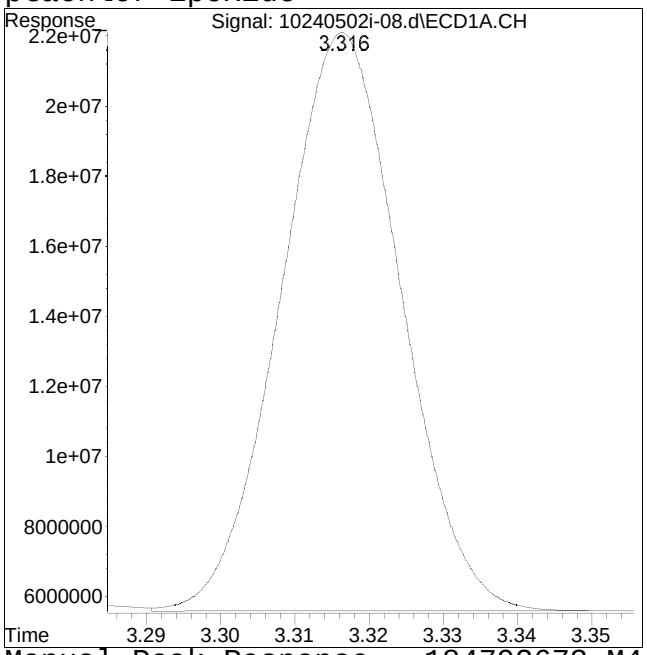
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #12: Heptachlor Epoxide



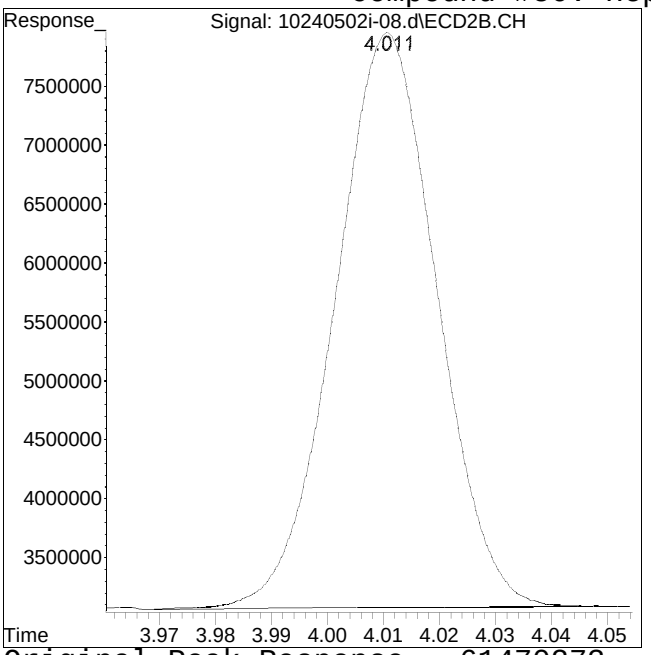


Original Peak Response = 185299460 Manual Peak Response = 184792673 M4
M4 = Poor automated baseline construction.

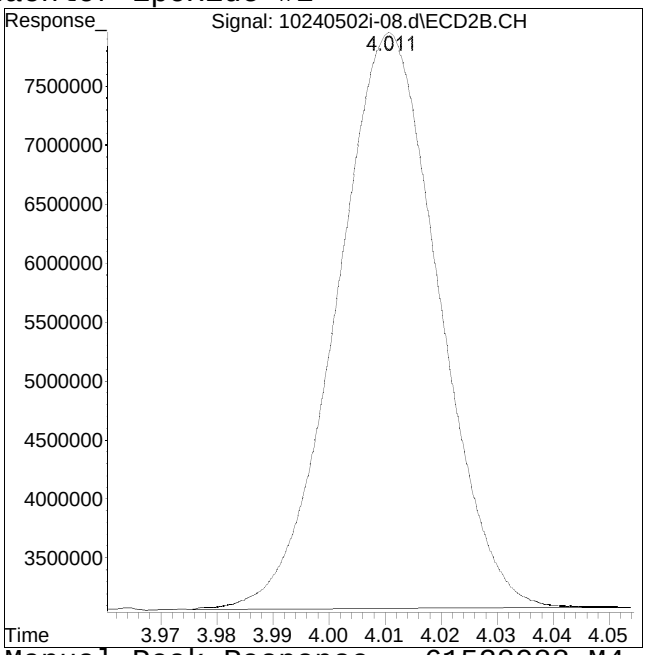
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 61470273



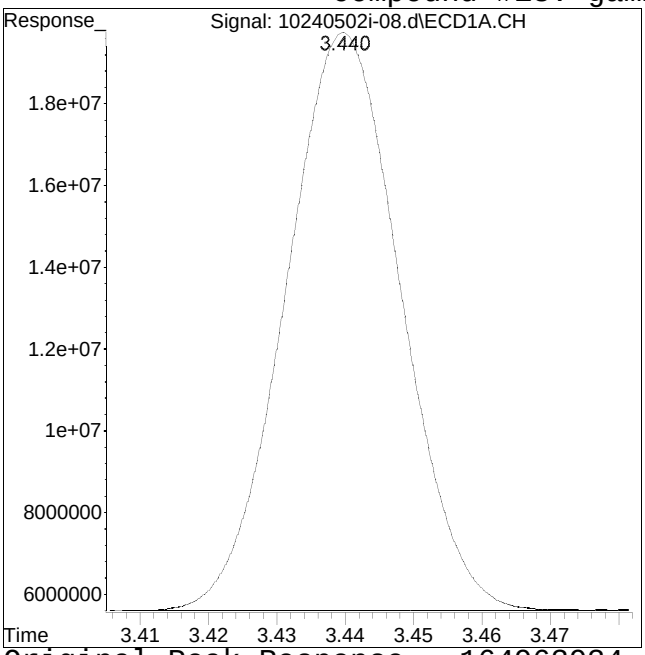
Manual Peak Response = 61538088 M4

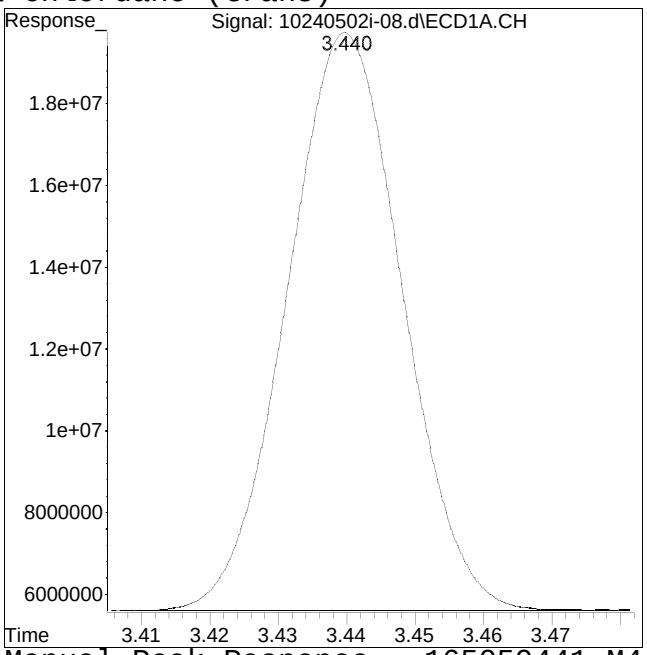
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #13: gamma-Chlordane (trans)



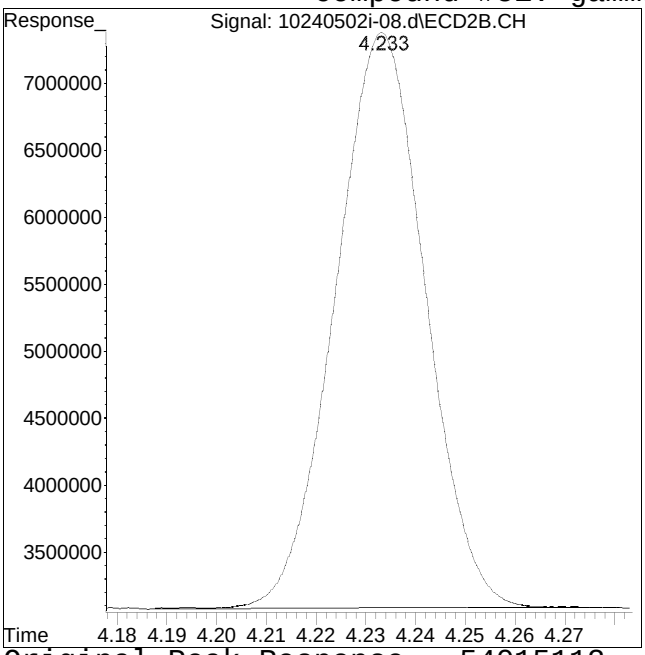


Original Peak Response = 164963934 Manual Peak Response = 165059441 M4
M4 = Poor automated baseline construction.

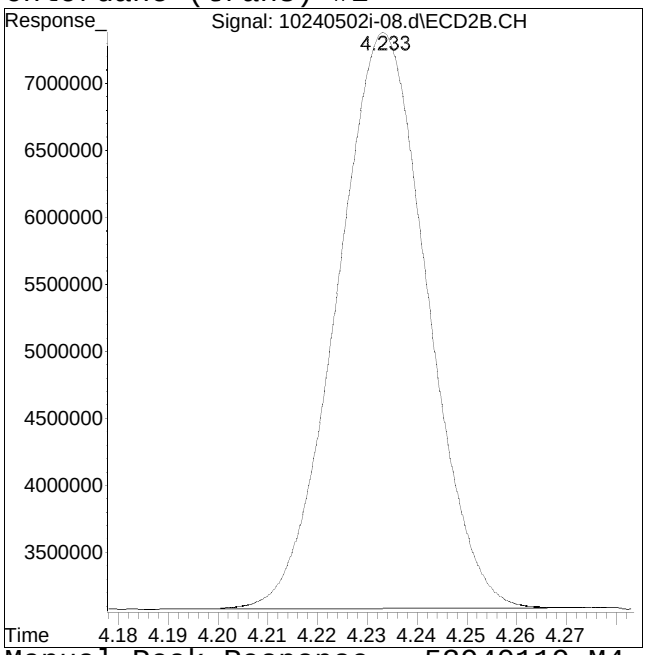
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 54015112



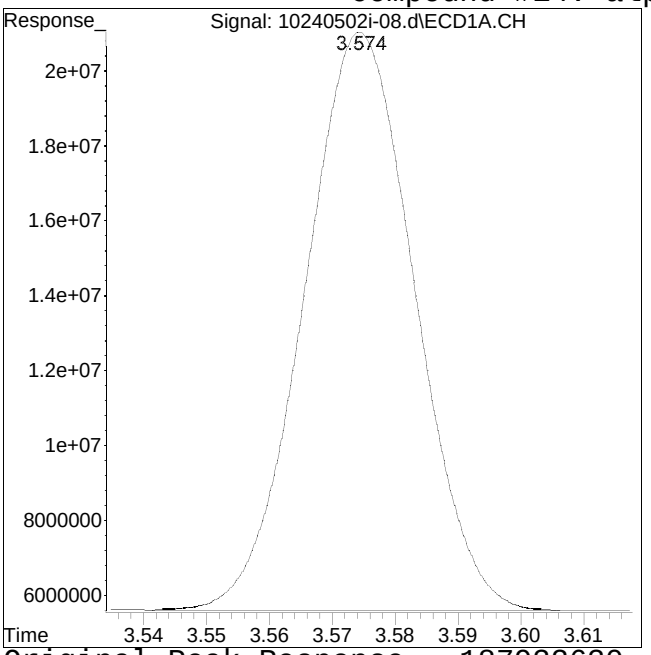
Manual Peak Response = 53940119 M4

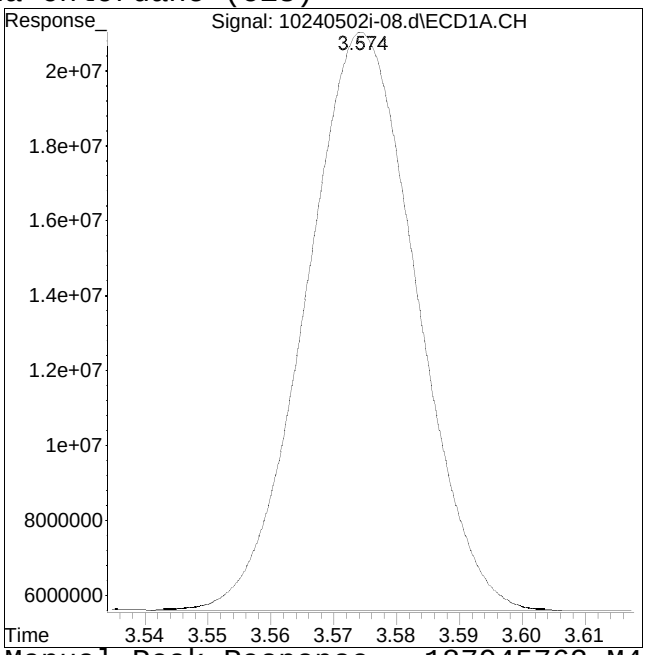
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #14: alpha-Chlordane (cis)



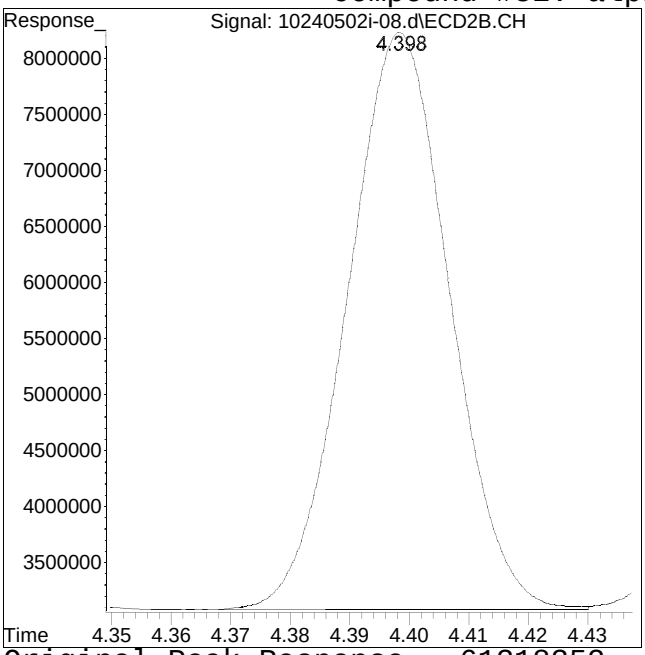


Original Peak Response = 187932630 Manual Peak Response = 187945762 M4
M4 = Poor automated baseline construction.

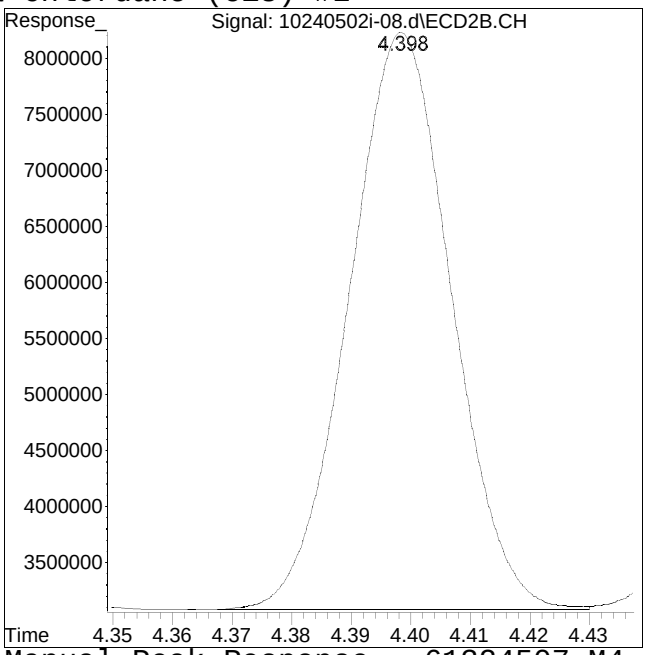
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 61318352



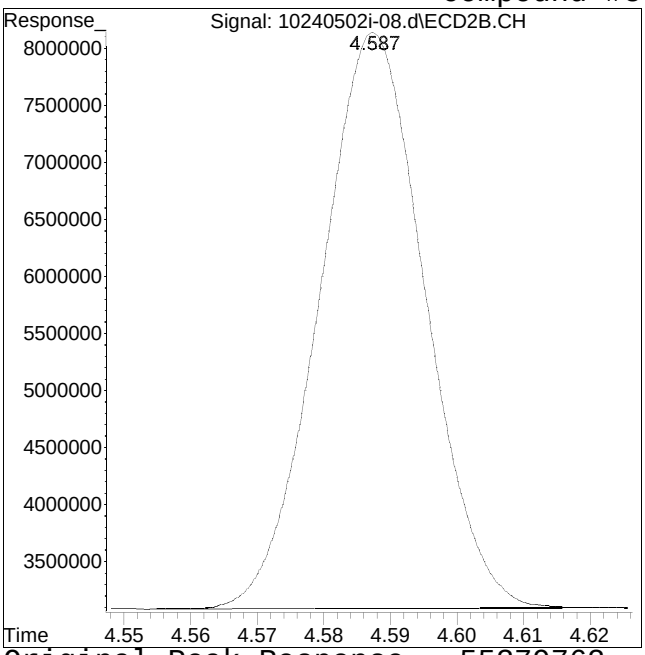
Manual Peak Response = 61324507 M4

M4 = Poor automated baseline construction.

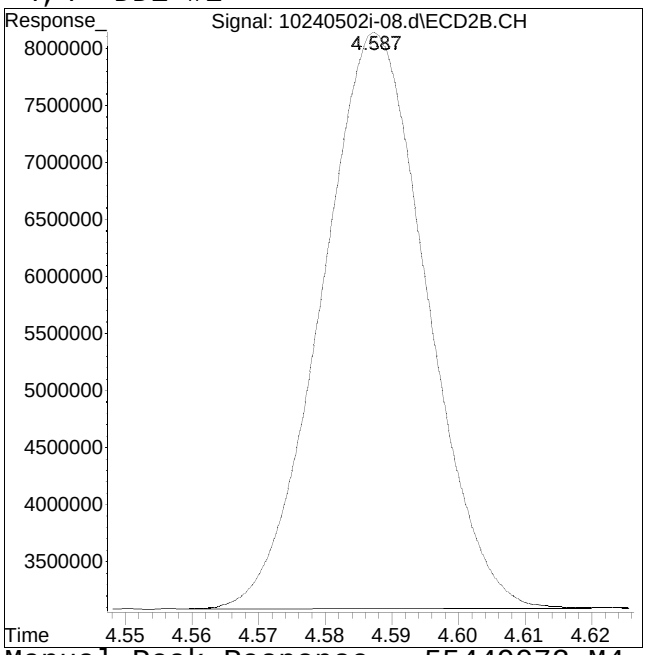
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 55379762



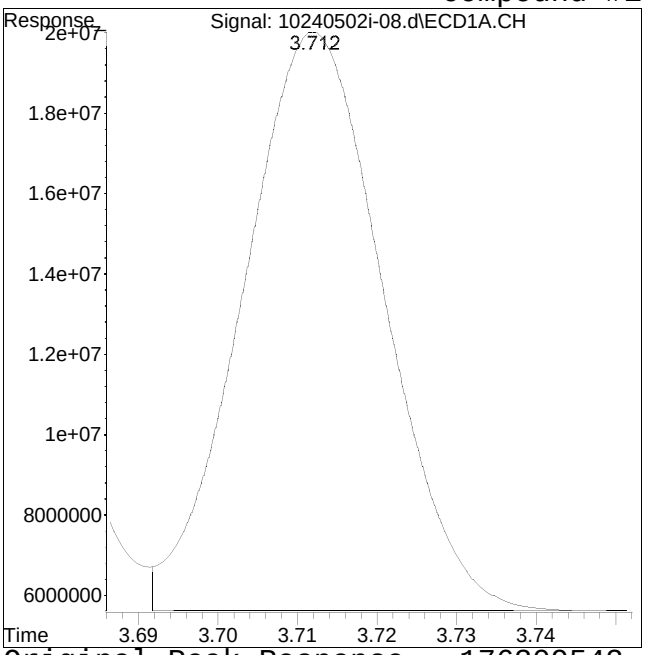
Manual Peak Response = 55449072 M4

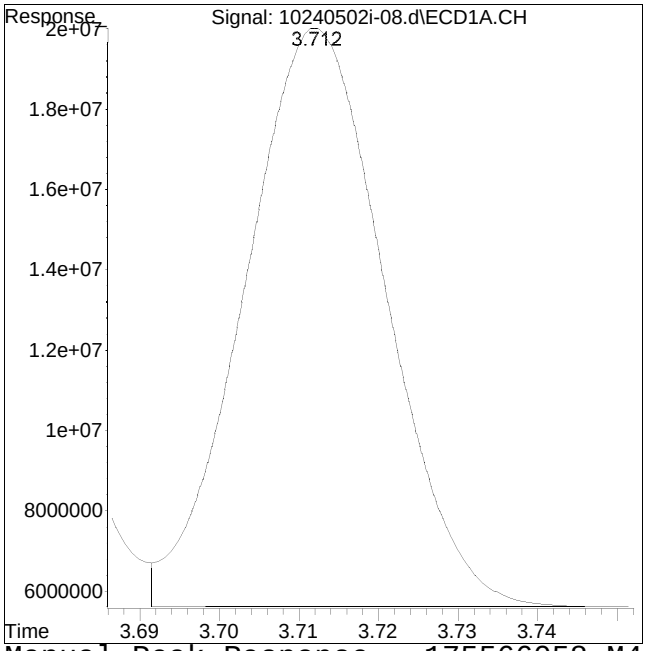
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #16: Endosulfan I



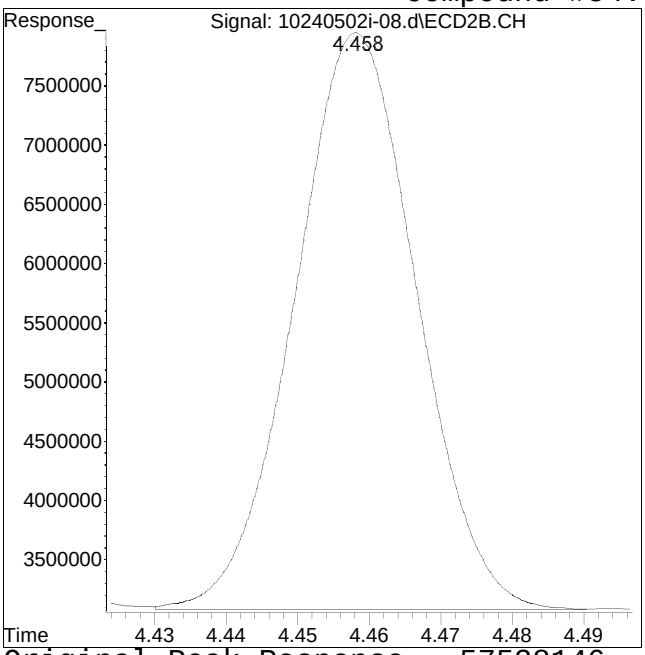


Original Peak Response = 176309542 Manual Peak Response = 175566058 M4
M4 = Poor automated baseline construction.

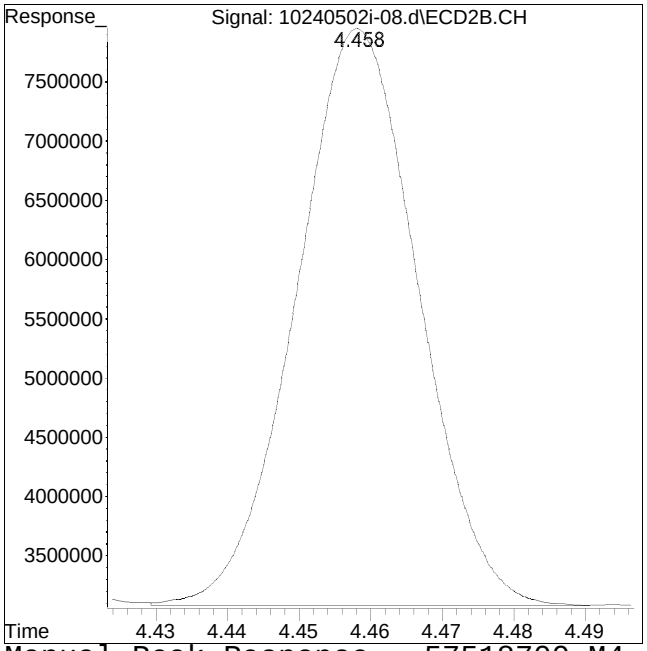
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #54: Endosulfan I #2



Original Peak Response = 57538146

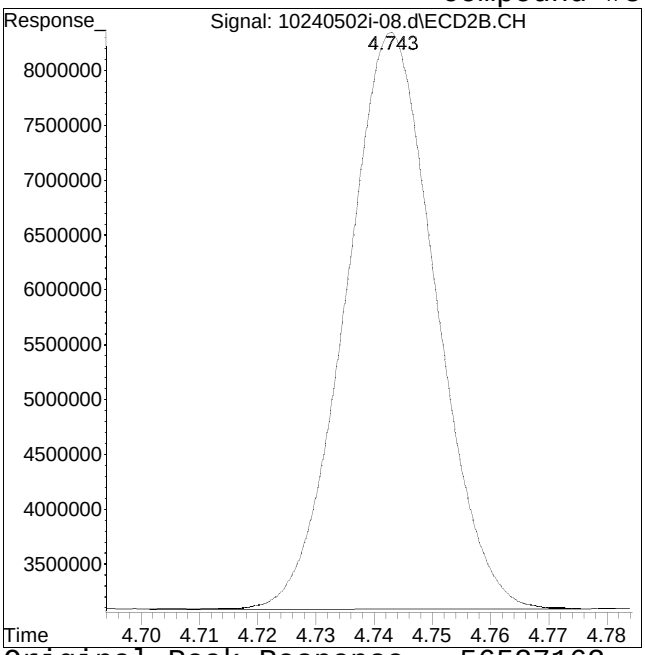


Manual Peak Response = 57518700 M4
M4 = Poor automated baseline construction.

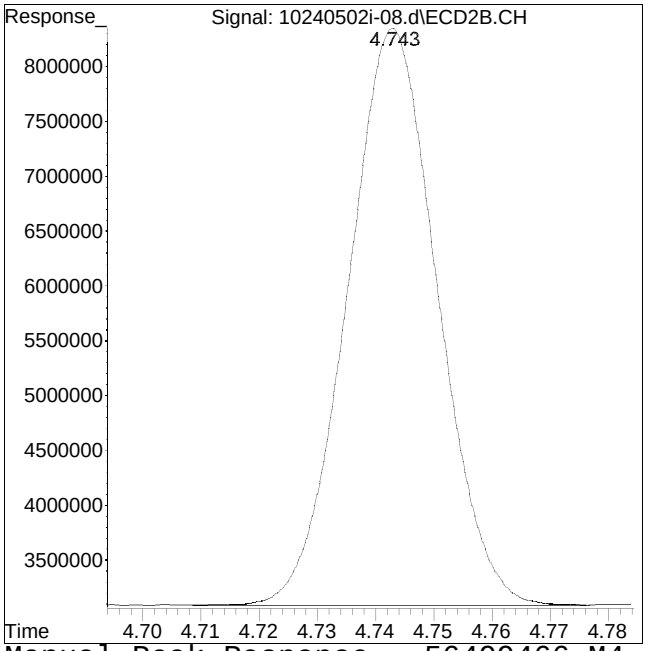
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #55: Dieldrin #2



Original Peak Response = 56527162



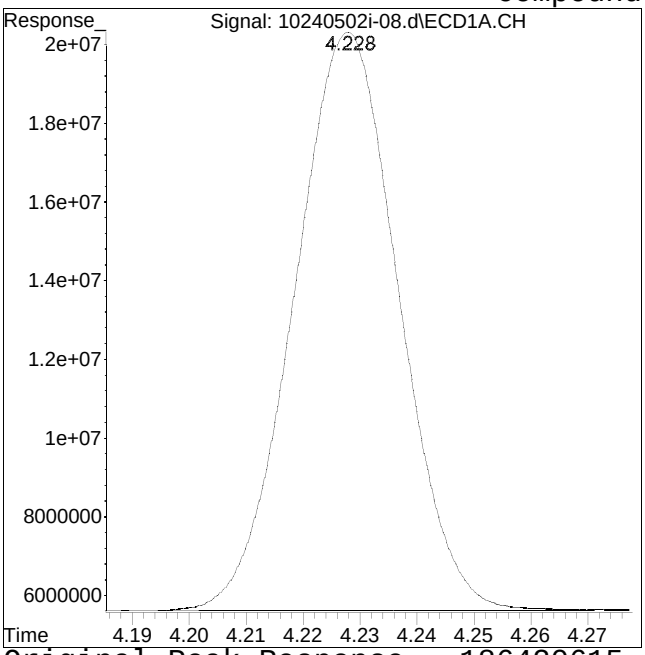
Manual Peak Response = 56499466 M4

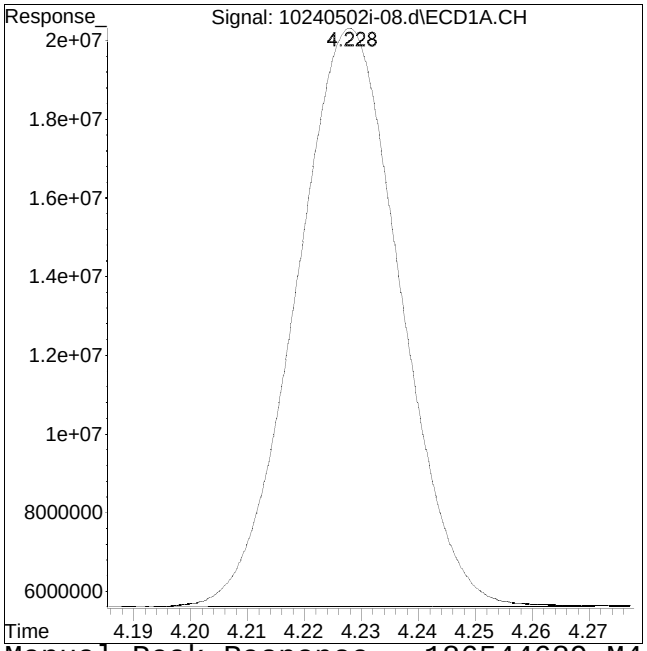
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #18: Endrin





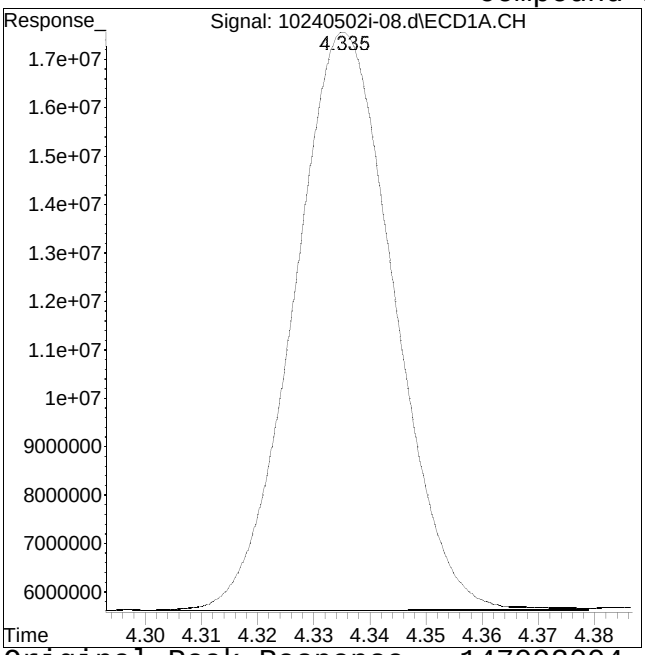
Original Peak Response = 186420615 Manual Peak Response = 186544689 M4
M4 = Poor automated baseline construction.

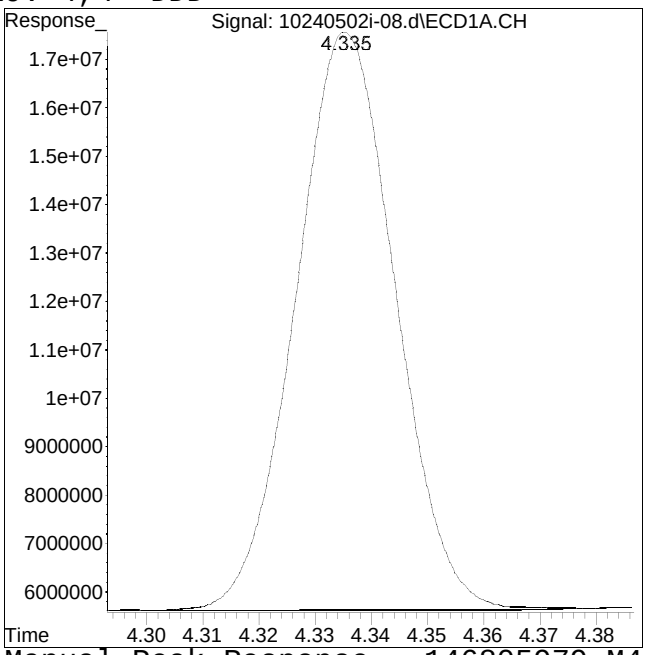
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #19: 4,4'-DDD



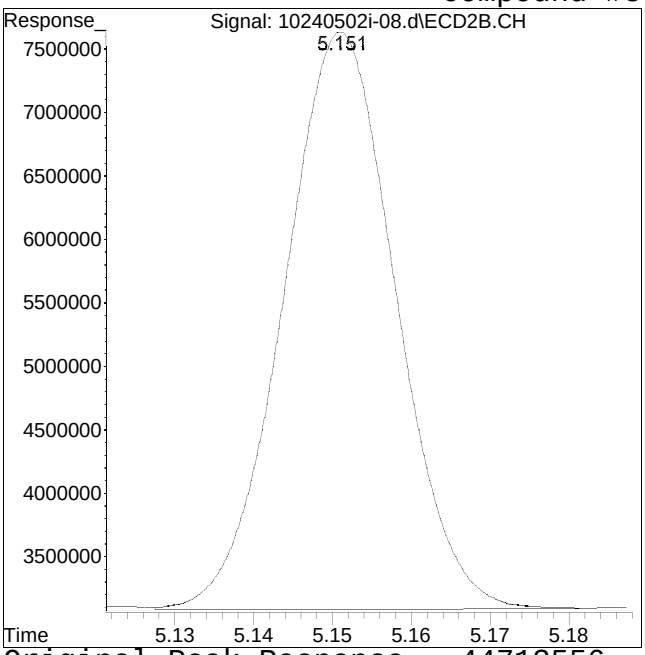


Original Peak Response = 147092004 Manual Peak Response = 146805979 M4
M4 = Poor automated baseline construction.

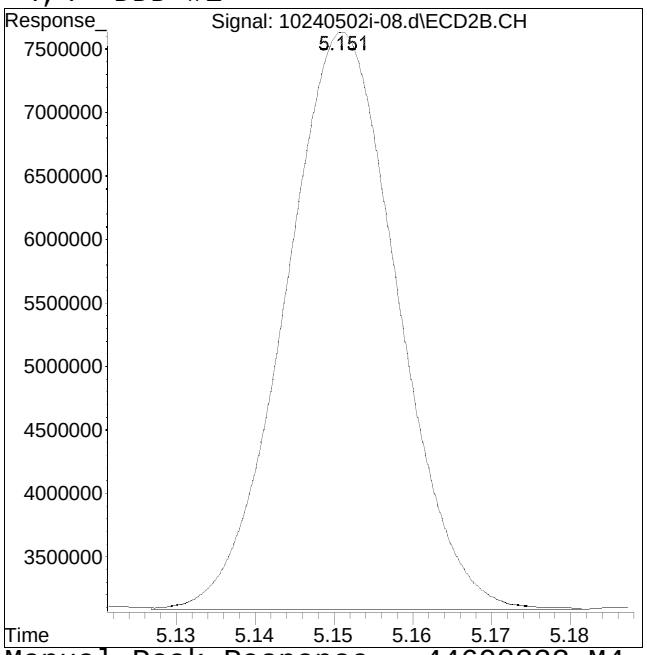
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 44713556



Manual Peak Response = 44692333 M4

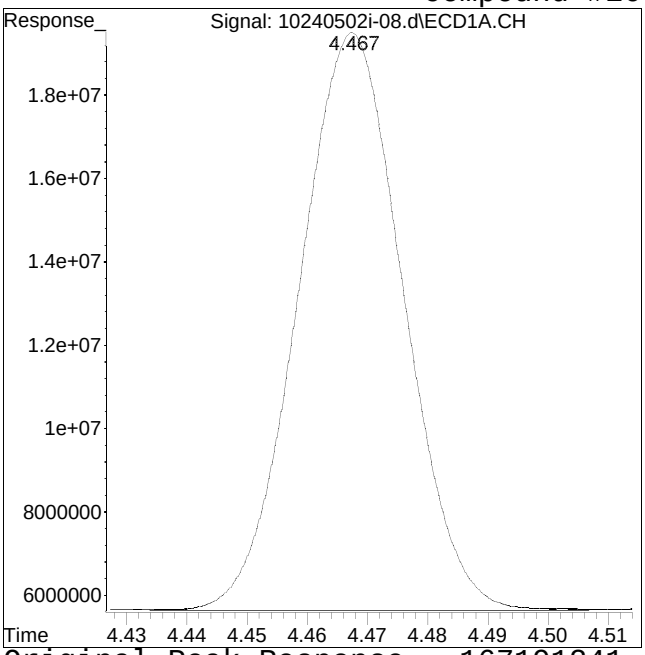
M4 = Poor automated baseline construction.

Manual Integration Report

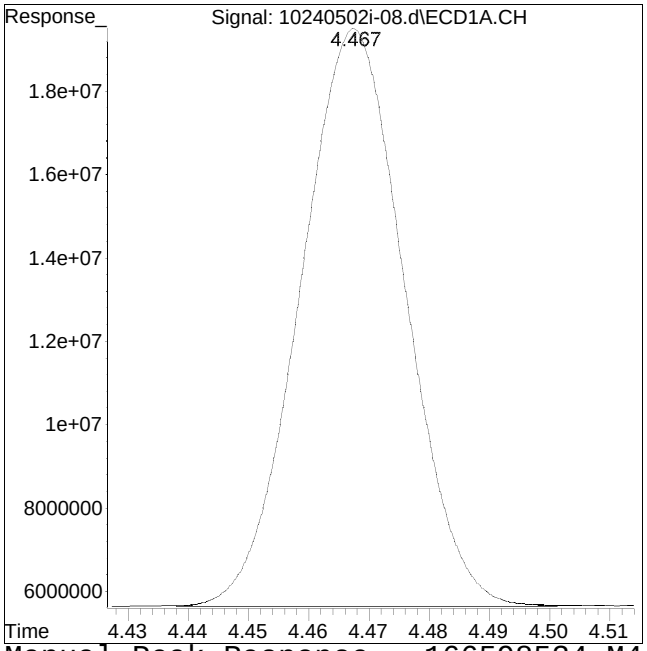
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #20: Endosulfan II



Original Peak Response = 167191241



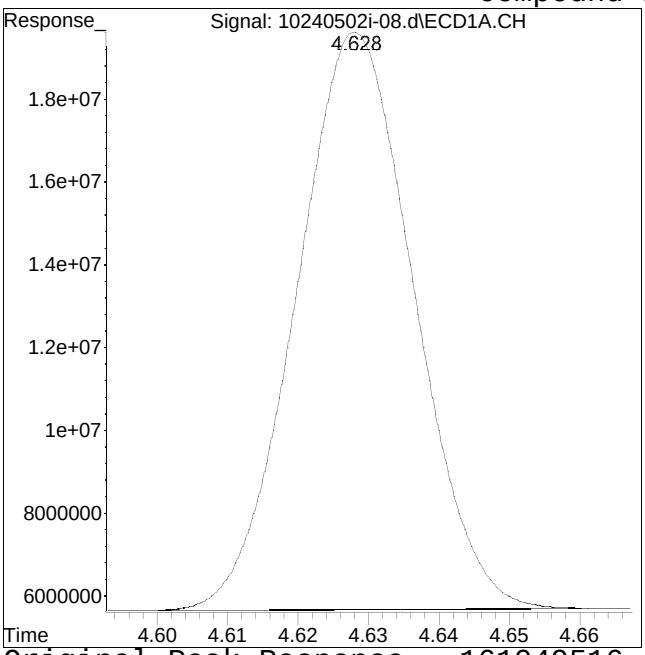
Manual Peak Response = 166598534 M4

M4 = Poor automated baseline construction.

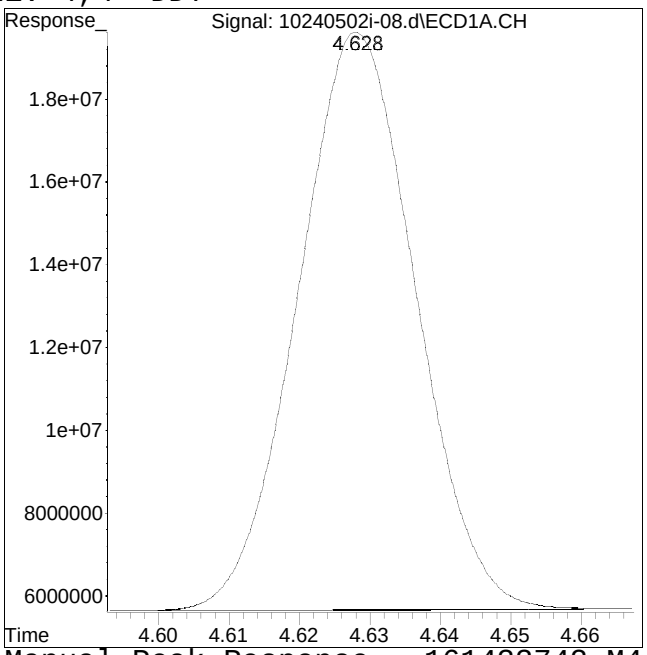
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #21: 4,4'-DDT



Original Peak Response = 161049516

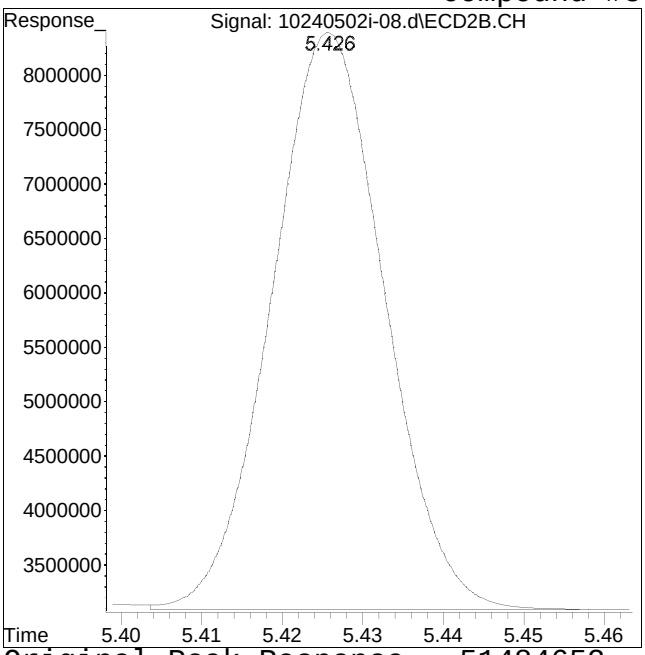


Manual Peak Response = 161433742 M4
M4 = Poor automated baseline construction.

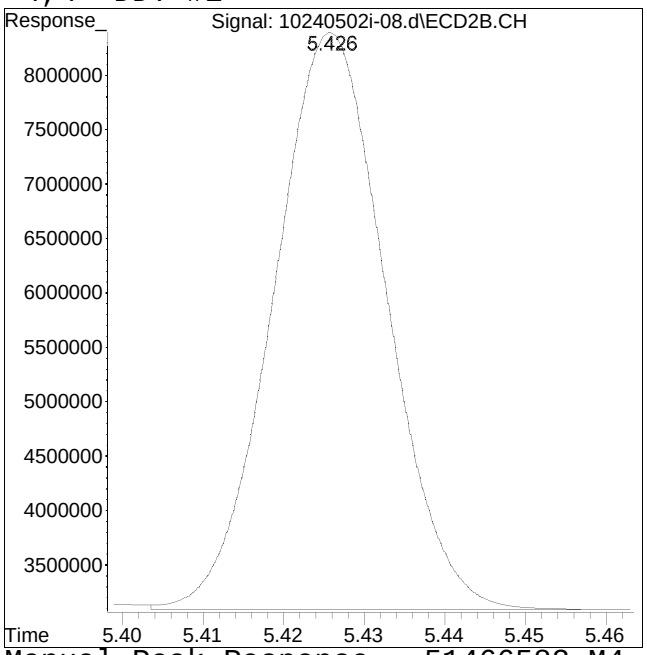
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 51484652



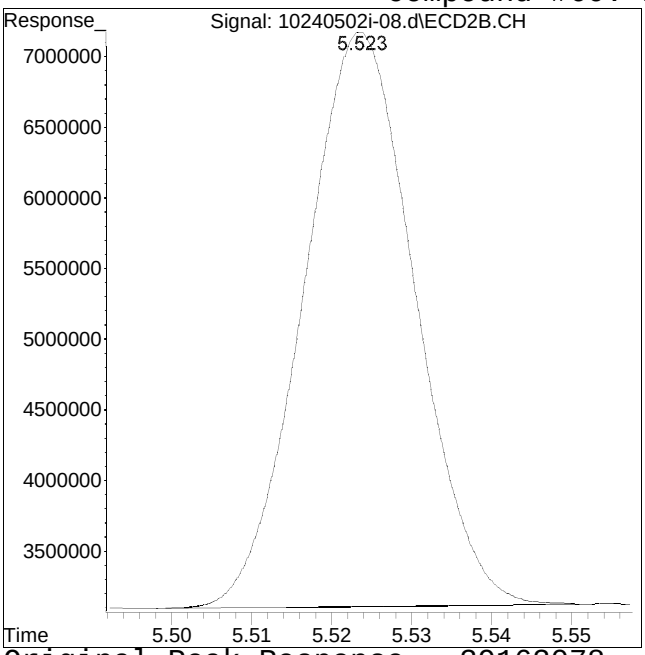
Manual Peak Response = 51466582 M4

M4 = Poor automated baseline construction.

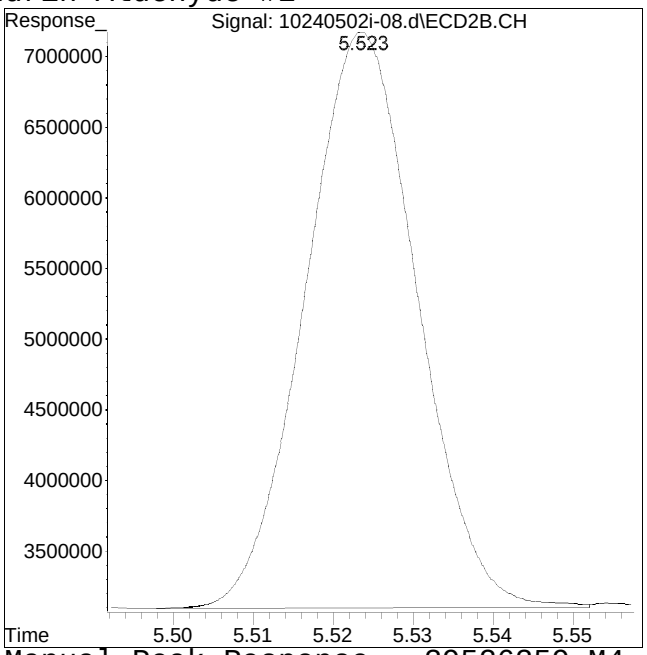
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 39163078



Manual Peak Response = 39526359 M4

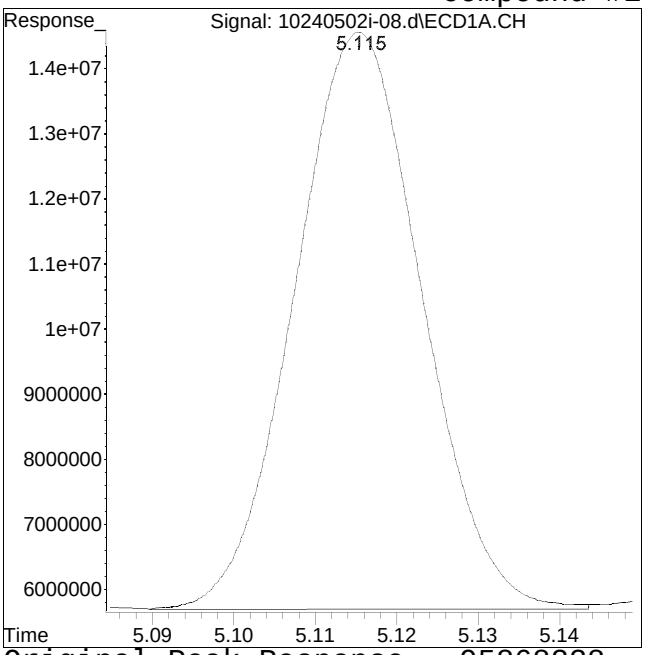
M4 = Poor automated baseline construction.

Manual Integration Report

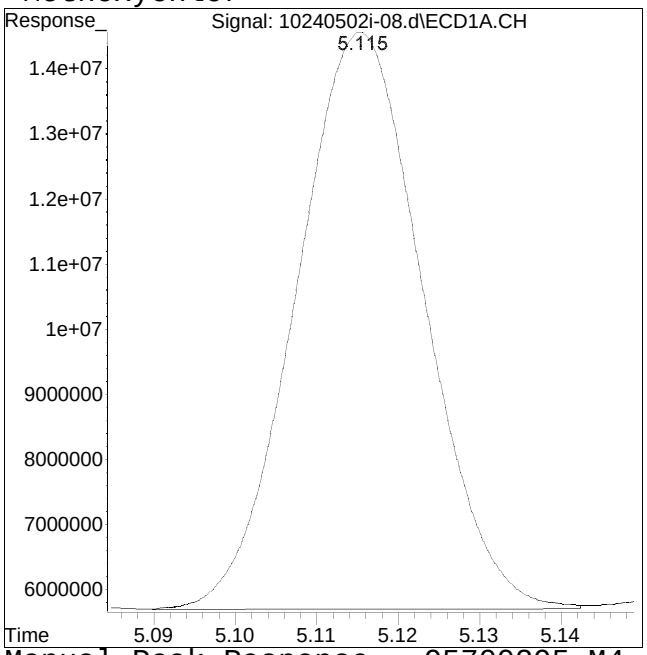
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #23: Methoxychlor



Original Peak Response = 95868238



Manual Peak Response = 95700295 M4

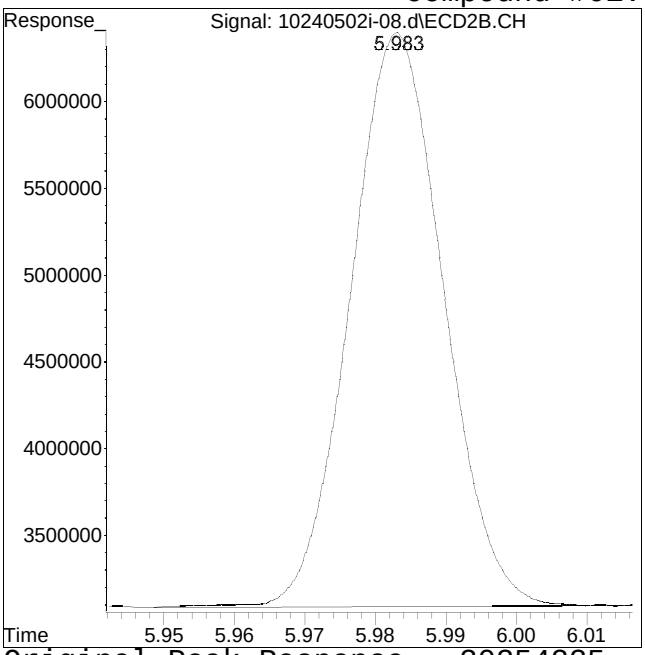
M4 = Poor automated baseline construction.

Manual Integration Report

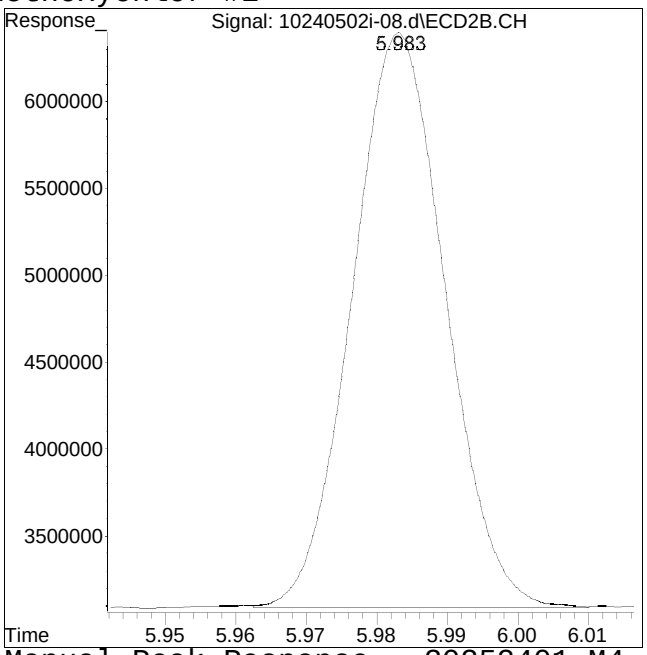
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #61: Methoxychlor #2



Original Peak Response = 30354235



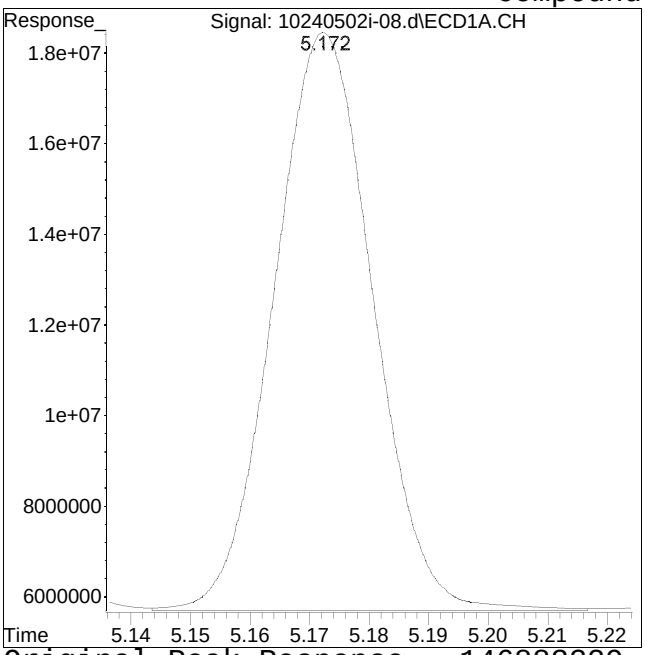
Manual Peak Response = 30252401 M4

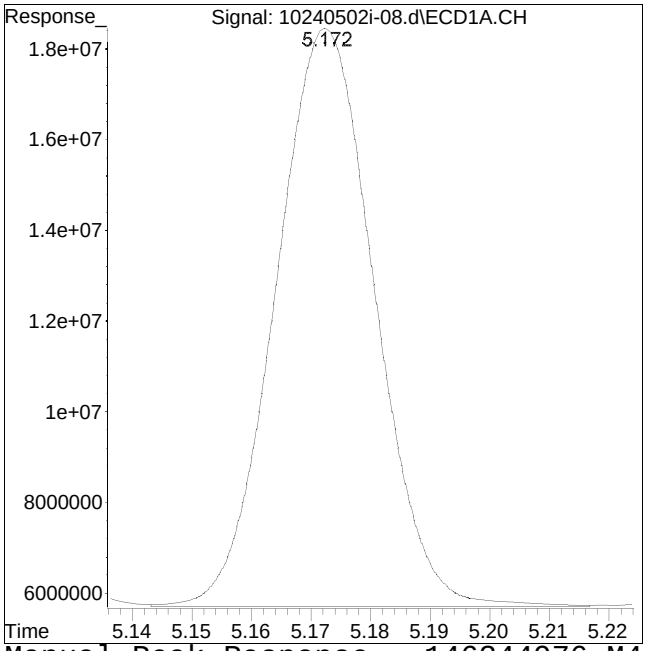
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #24: Mirex



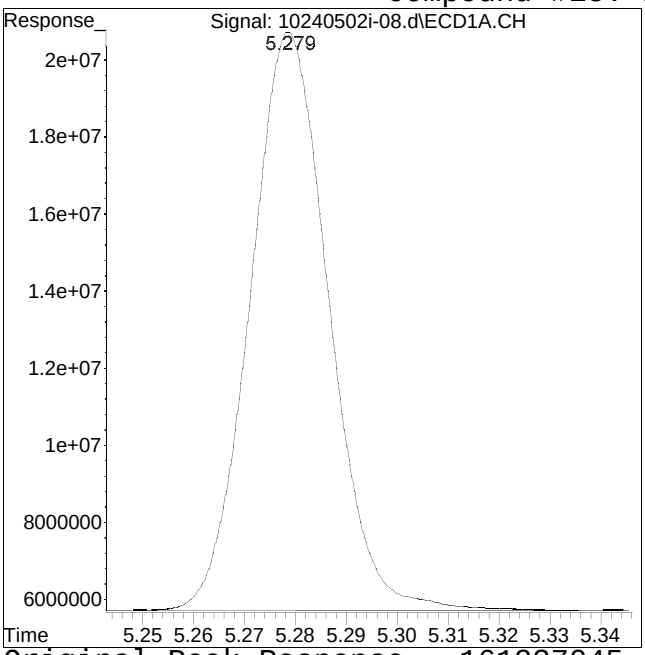


Original Peak Response = 146883329 Manual Peak Response = 146344976 M4
M4 = Poor automated baseline construction.

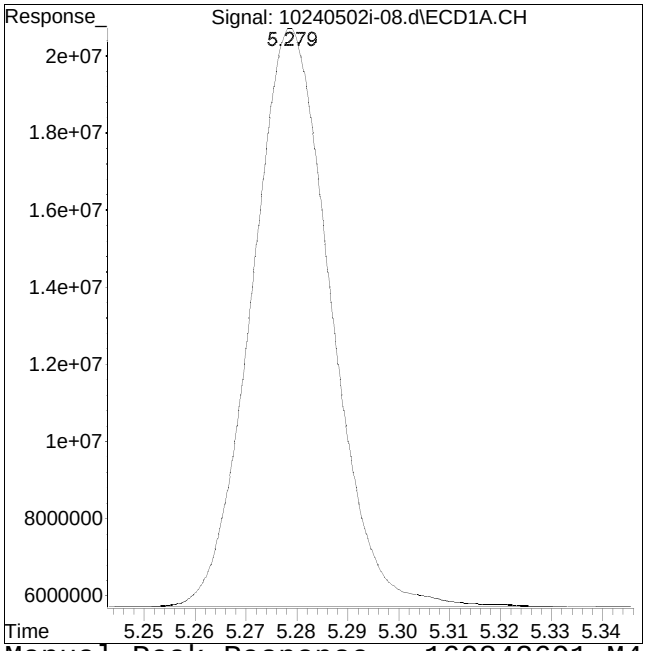
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 161237045



Manual Peak Response = 160842691 M4

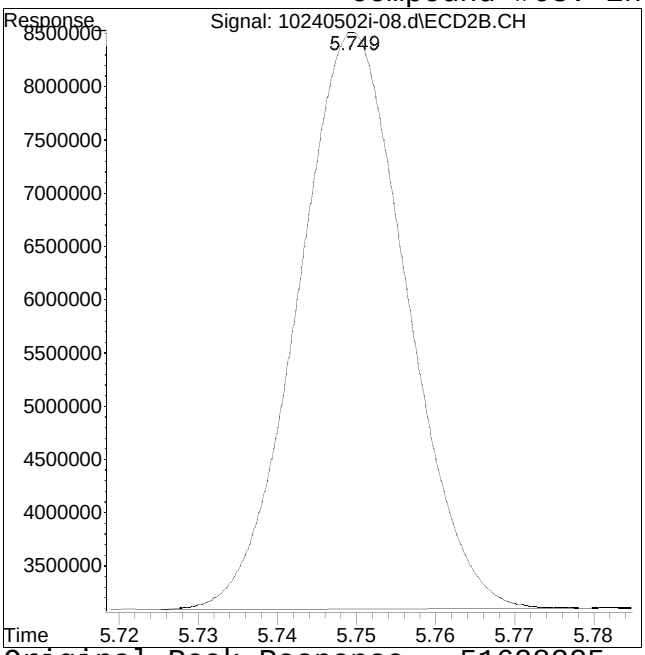
M4 = Poor automated baseline construction.

Manual Integration Report

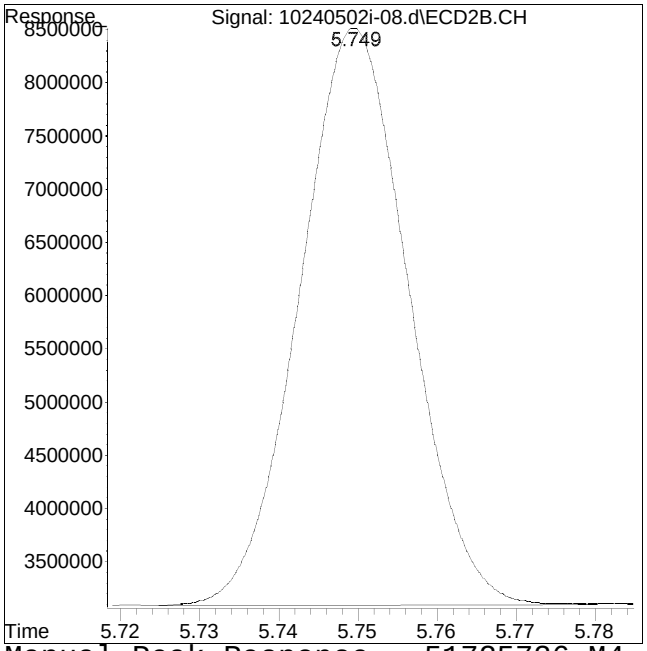
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 51628225



Manual Peak Response = 51725726 M4

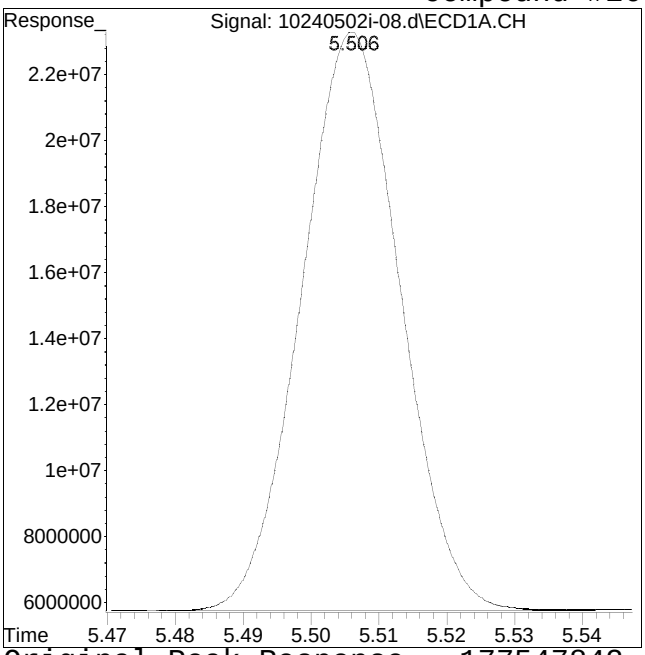
M4 = Poor automated baseline construction.

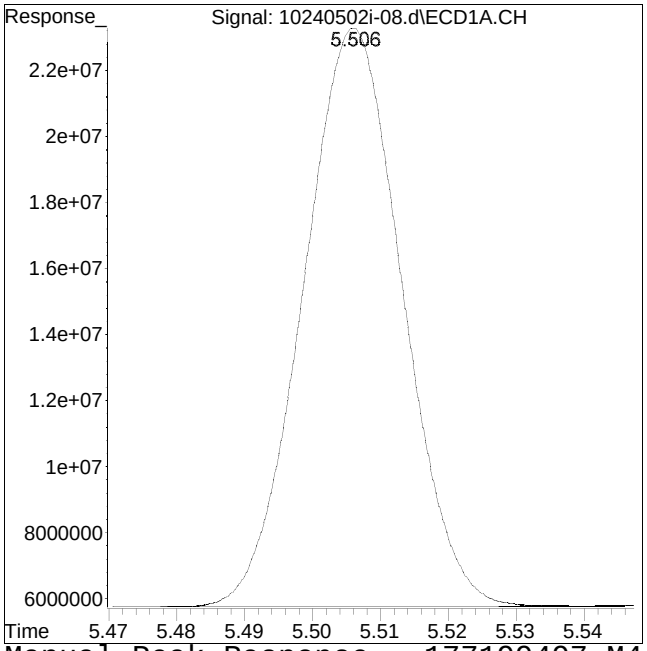
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #26: Endrin Ketone



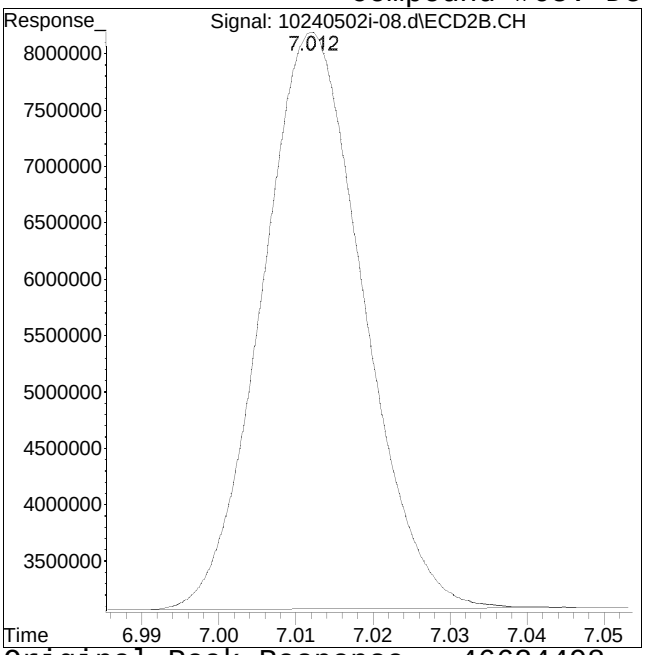


Original Peak Response = 177547842 Manual Peak Response = 177199497 M4
M4 = Poor automated baseline construction.

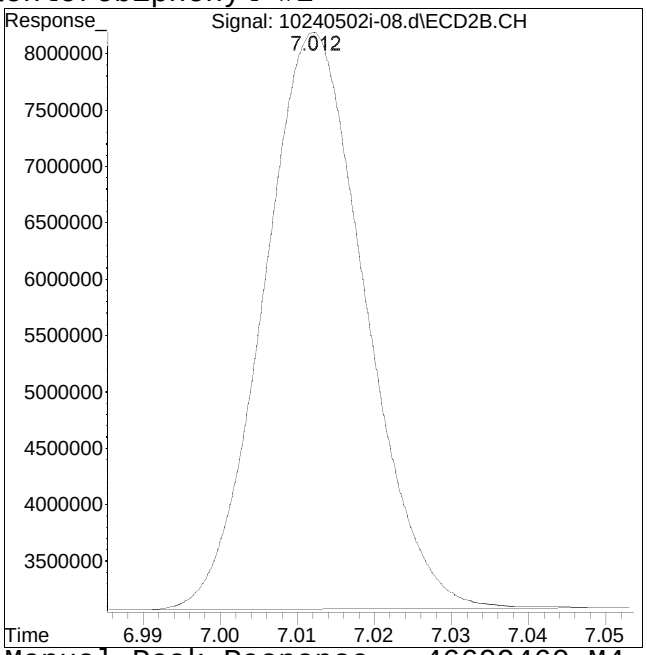
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 46624498



Manual Peak Response = 46699460 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.317	1.428	377.7E6	136.7E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.662	1.920	747.0E6	252.3E6	45.556M3	49.090
		Spiked Amount 50.000	Range 30 - 150		Recovery =		91.11%	98.18%
27)	s	Decachlorobi	6.306	7.012	625.9E6	205.2E6	44.559	45.124M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		89.12%	90.25%
		Target Compounds						
3)	t	Hexachlorobe	1.877	2.251	794.8E6	276.7E6	45.360	46.844
4)	t	alpha-BHC	1.976	2.350	1127.2E6	379.0E6	49.400M4	51.788M4
5)	t	gamma-BHC (l	2.179	2.644	1028.5E6	347.1E6	47.559M3	50.502M4
6)	t	beta-BHC	2.235	2.709	429.7E6	150.1E6	44.764	46.154M4
7)	t	delta-BHC	2.364	2.984	1040.6E6	352.0E6	48.770	50.994M4
8)	t	Heptachlor	2.526	3.053	977.0E6	335.7E6	47.572M4	49.179M4
9)	t	Aldrin	2.769	3.381	929.5E6	310.3E6	47.990M3	49.915M4
10)	t	Alachlor	2.891	3.258	136.1E6	48513413	56.327M4	44.654
11)	t	Chlorpyrifos	2.982	3.620	420.0E6	155.6E6	57.145M4	47.516M4
12)	t	Heptachlor E	3.316	4.011	861.9E6	298.1E6	46.714	47.963

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.440	4.234	776.0E6	263.9E6	45.972	47.733
14)	t	alpha-Chlord	3.574	4.399	874.4E6	297.5E6	45.604	47.843
15)	t	4,4'-DDE	3.671	4.587	875.9E6	290.0E6	48.237	50.440M4
16)	t	Endosulfan I	3.712	4.458	822.0E6	279.9E6	46.614	48.395M4
17)	t	Dieldrin	3.972	4.743	862.0E6	286.2E6	47.541	49.455
18)	t	Endrin	4.228	5.036	886.6E6	296.3E6	47.609M4	49.891M4
19)	t	4,4'-DDD	4.335	5.151	702.3E6	229.5E6	47.579M4	49.594M3
20)	t	Endosulfan I	4.467	5.230	770.5E6	259.8E6	47.937M4	49.953M4
21)	t	4,4'-DDT	4.628	5.426	767.6E6	259.3E6	46.992M3	49.426
22)	t	Endrin Aldeh	4.886	5.523	602.3E6	204.6E6	46.788	50.153M4
23)	t	Methoxychlor	5.115	5.984	414.1E6	137.2E6	54.892M4	47.565
24)	t	Mirex	5.172	6.127	628.1E6	208.7E6	50.918M4	45.610M4
25)	t	Endosulfan S	5.279	5.750	731.9E6	246.2E6	45.918M4	47.482M4
26)	t	Endrin Keton	5.505	6.160	820.7E6	275.0E6	46.943M4	48.681M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

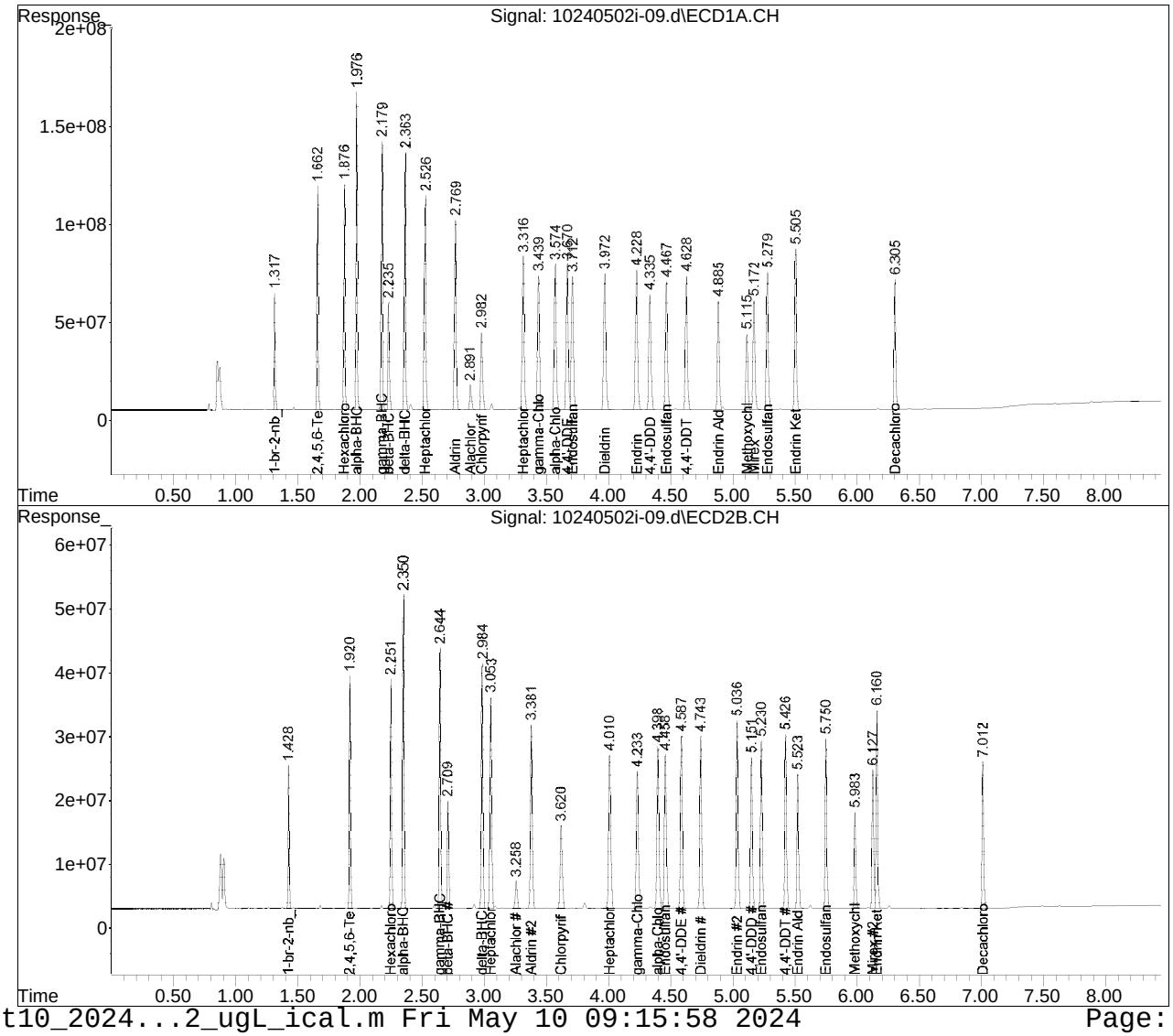
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

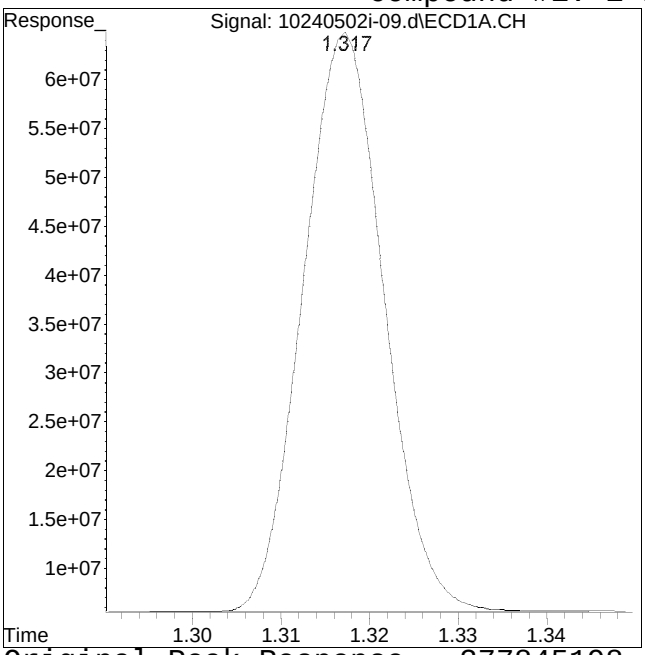
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

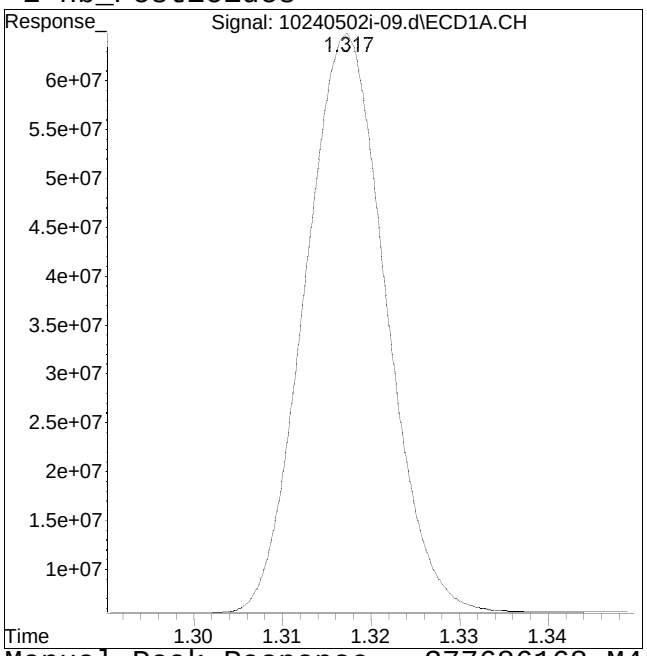


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #1: 1-br-2-nb_Pesticides





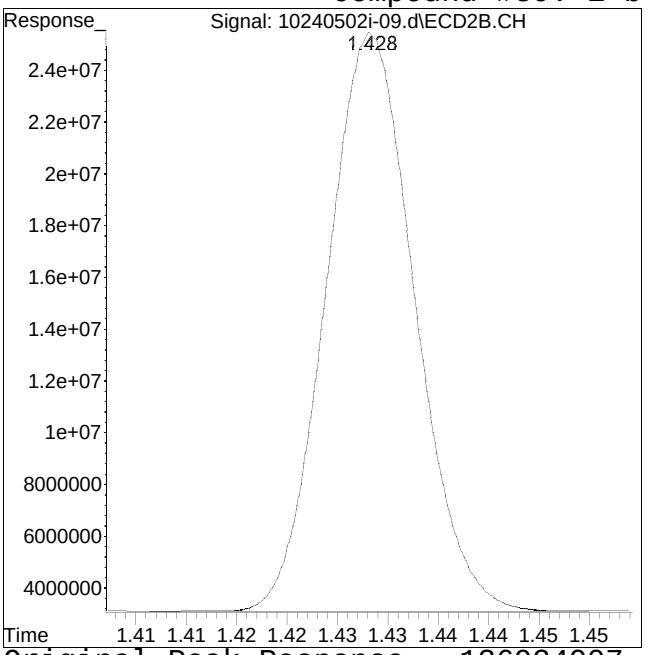
Original Peak Response = 377845198 Manual Peak Response = 377686168 M4
M4 = Poor automated baseline construction.

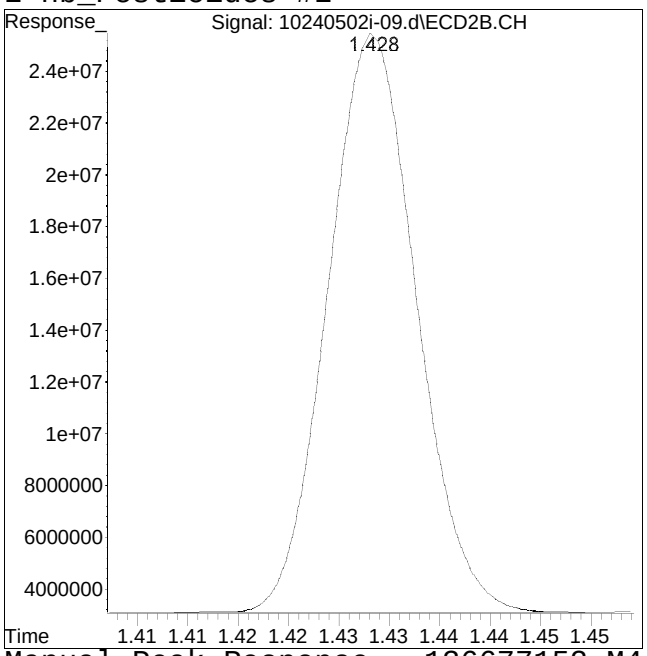
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



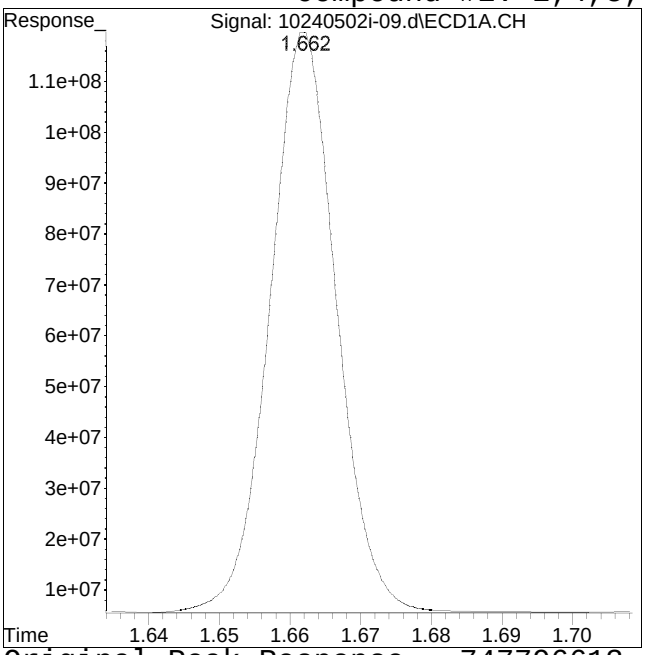


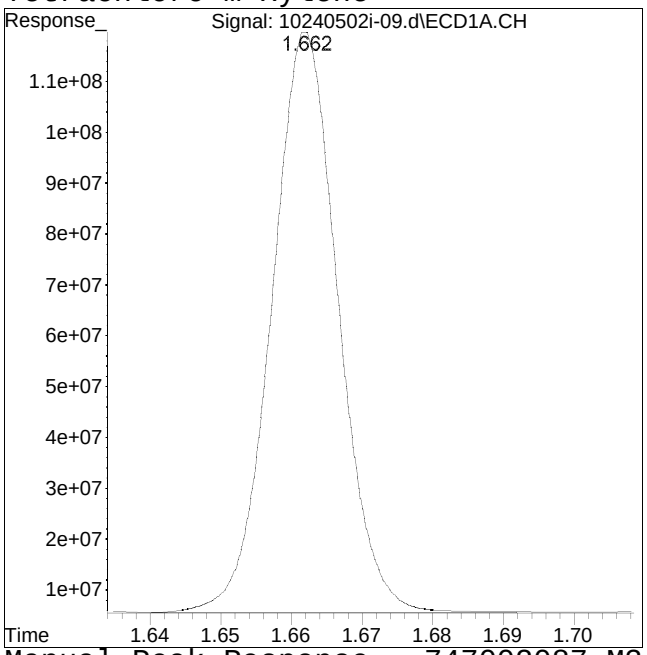
Original Peak Response = 136924907 Manual Peak Response = 136677152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



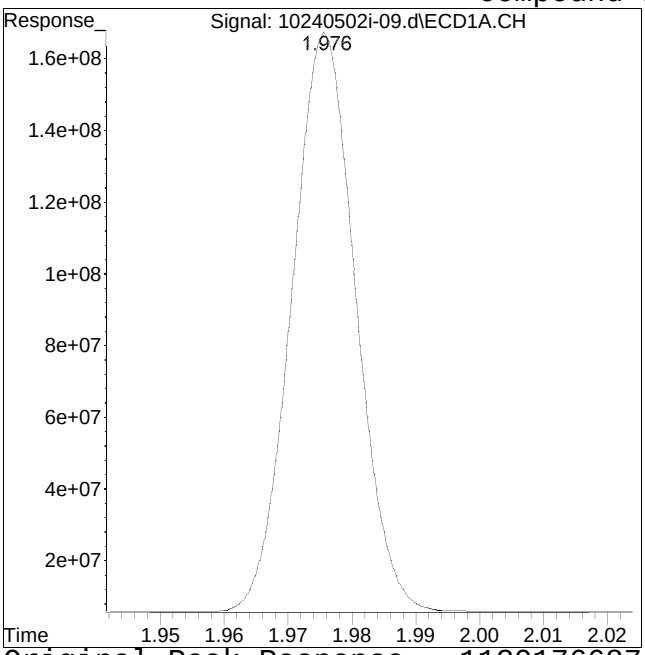


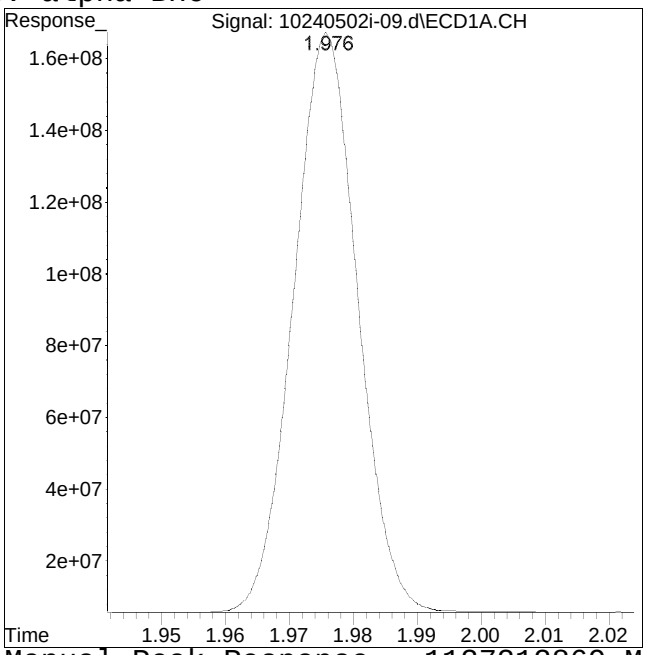
Original Peak Response = 747796613 Manual Peak Response = 747002087 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #4: alpha-BHC



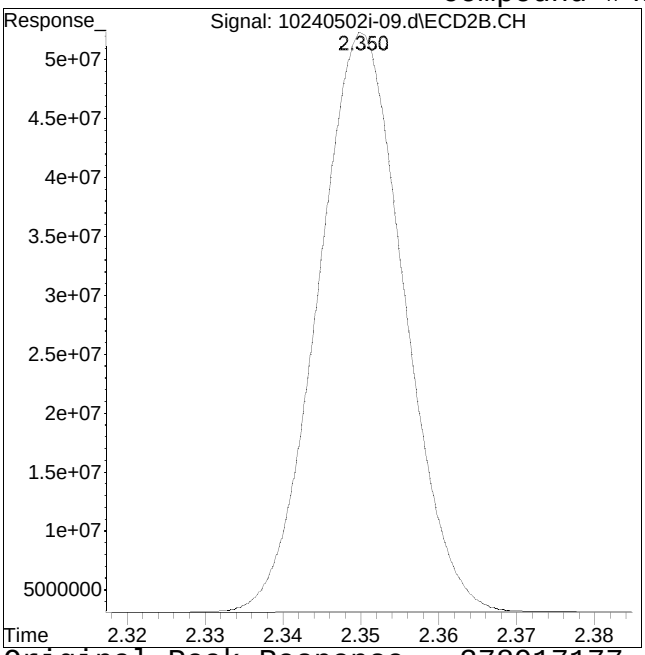


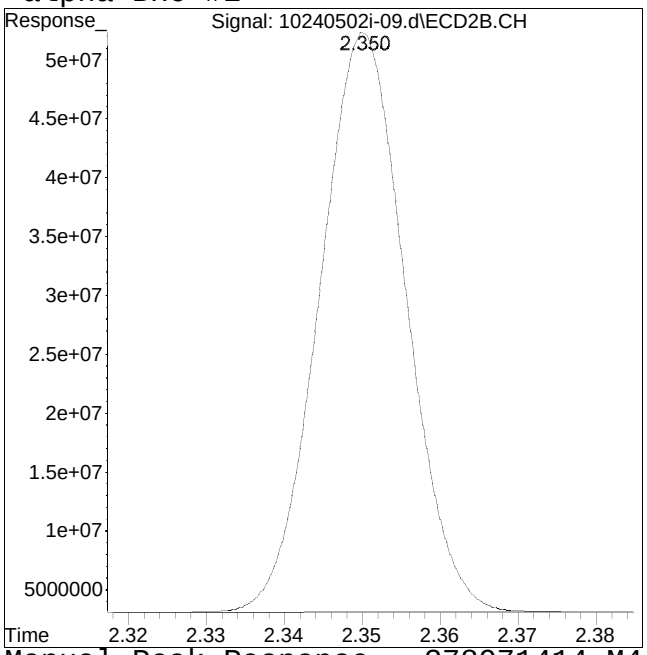
Original Peak Response = 1130176687 Manual Peak Response = 1127212869 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #42: alpha-BHC #2



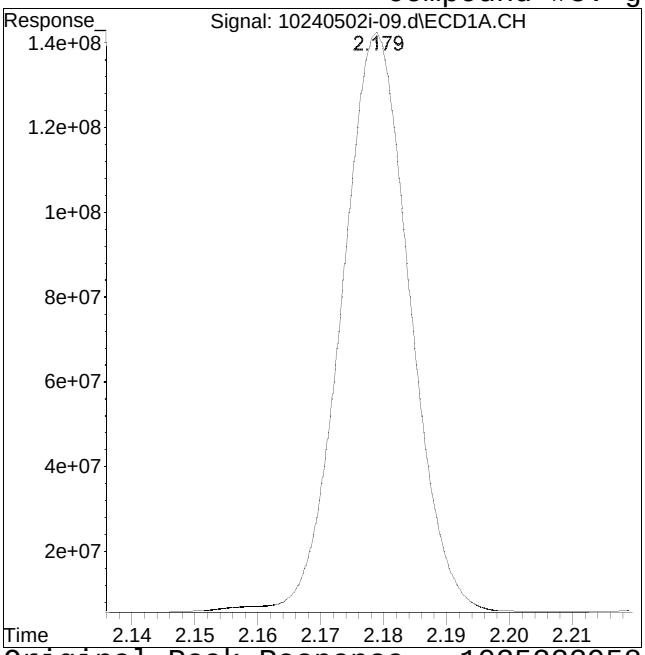


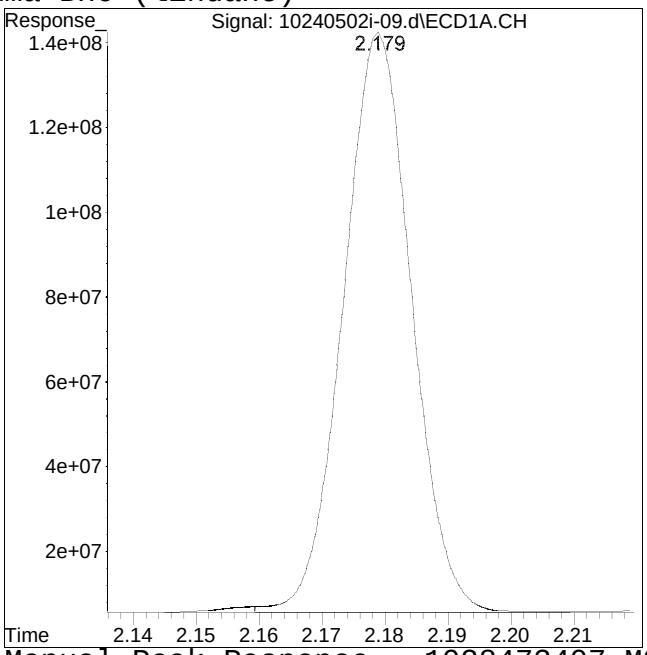
Original Peak Response = 378917177 Manual Peak Response = 378971414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #5: gamma-BHC (lindane)





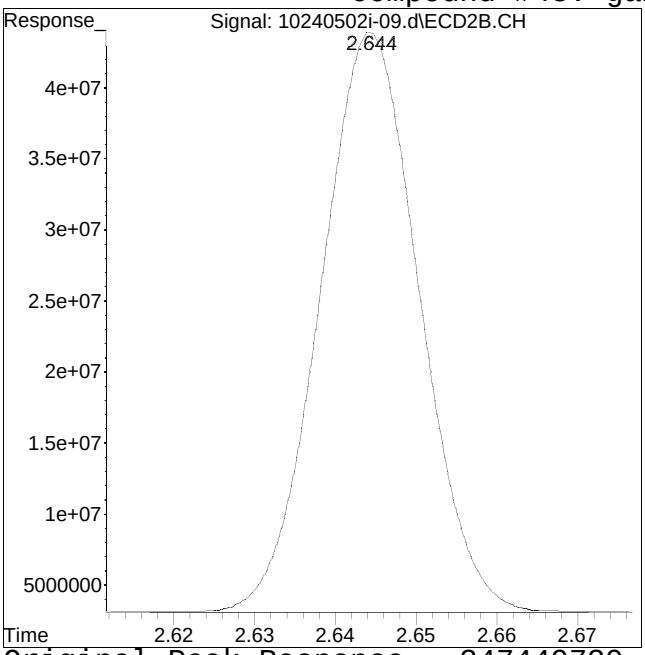
Original Peak Response = 1035223958 Manual Peak Response = 1028473407 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

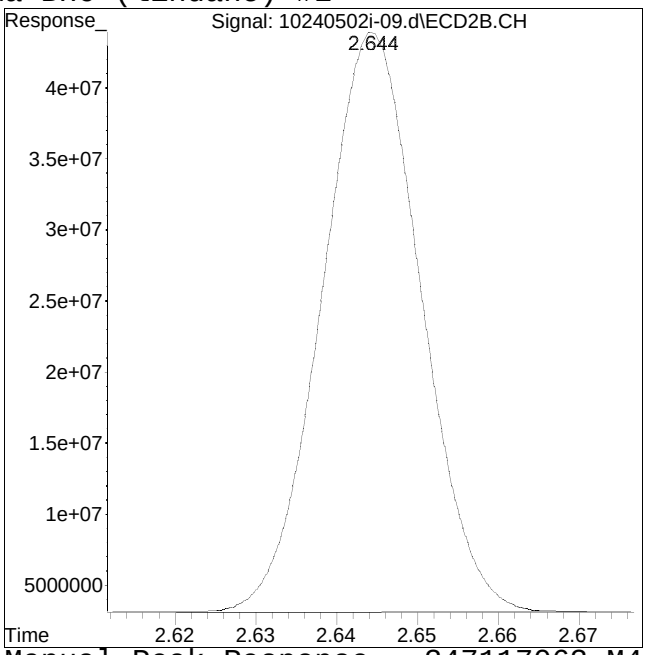
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 347449739



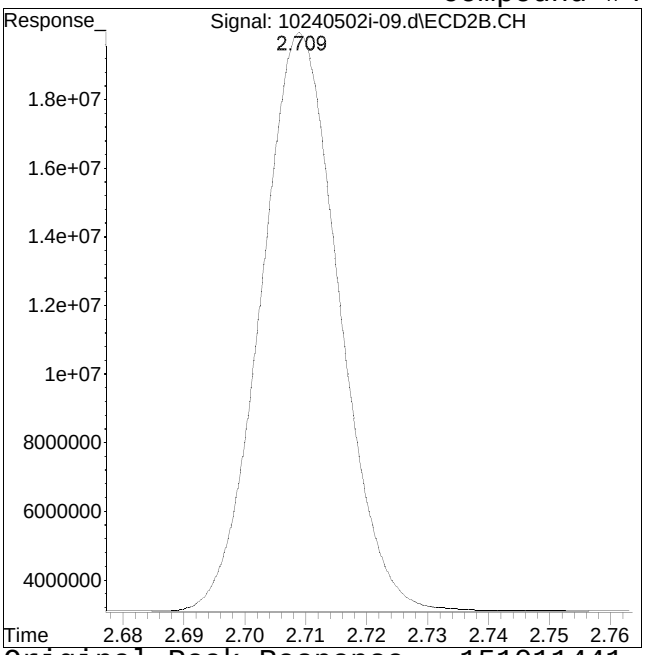
Manual Peak Response = 347117063 M4

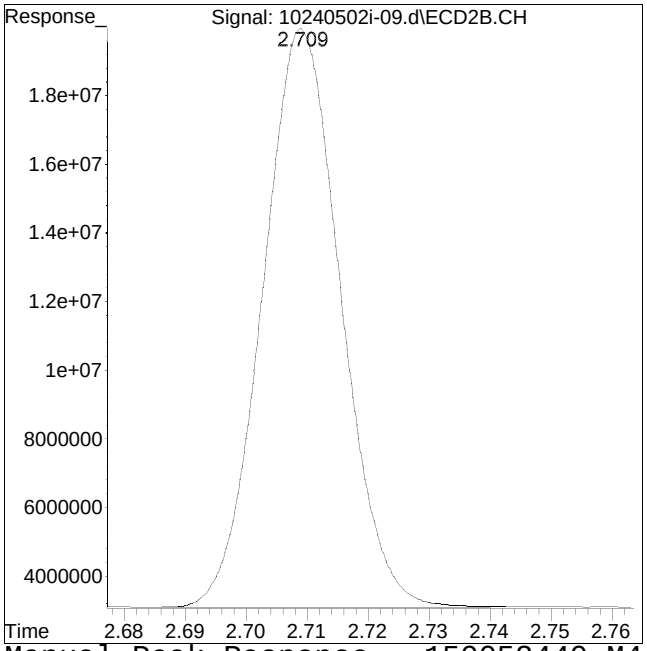
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #44: beta-BHC #2



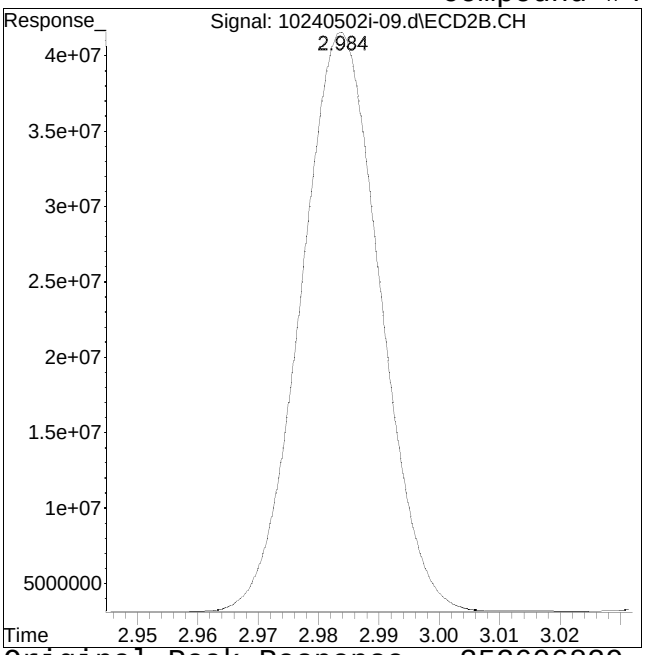


Original Peak Response = 151011441 Manual Peak Response = 150052440 M4
M4 = Poor automated baseline construction.

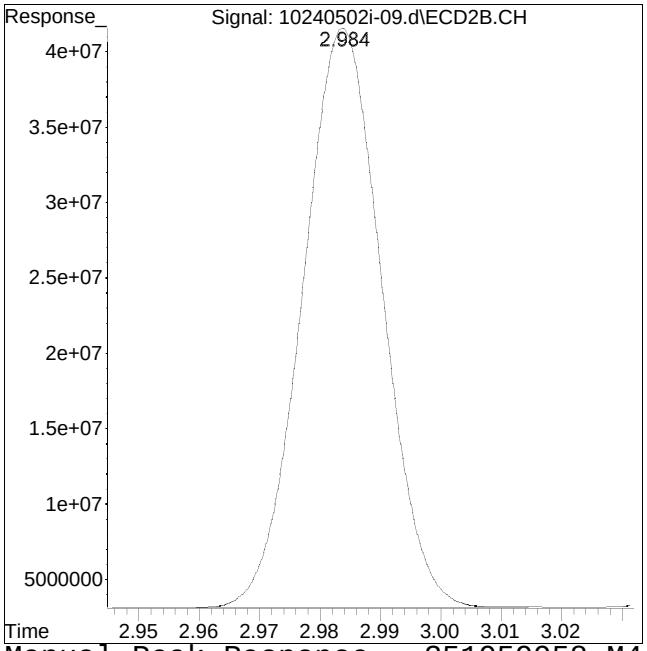
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #45: delta-BHC #2



Original Peak Response = 352606829

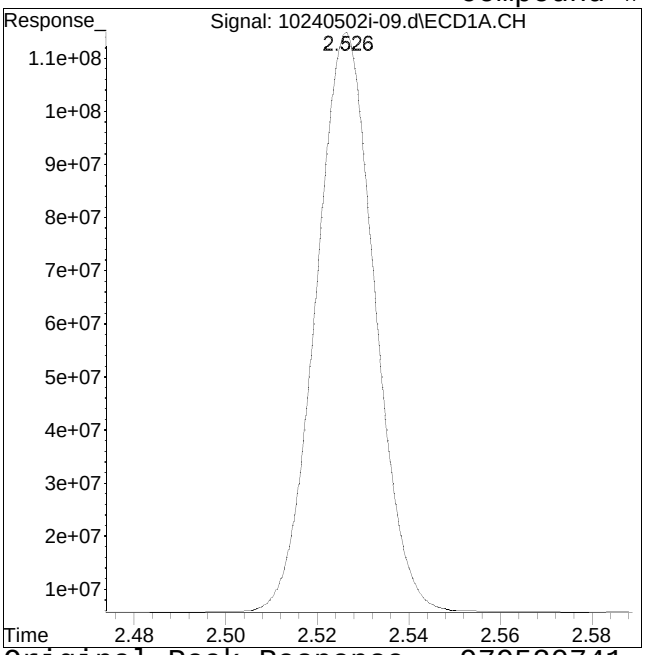


Manual Peak Response = 351959958 M4
M4 = Poor automated baseline construction.

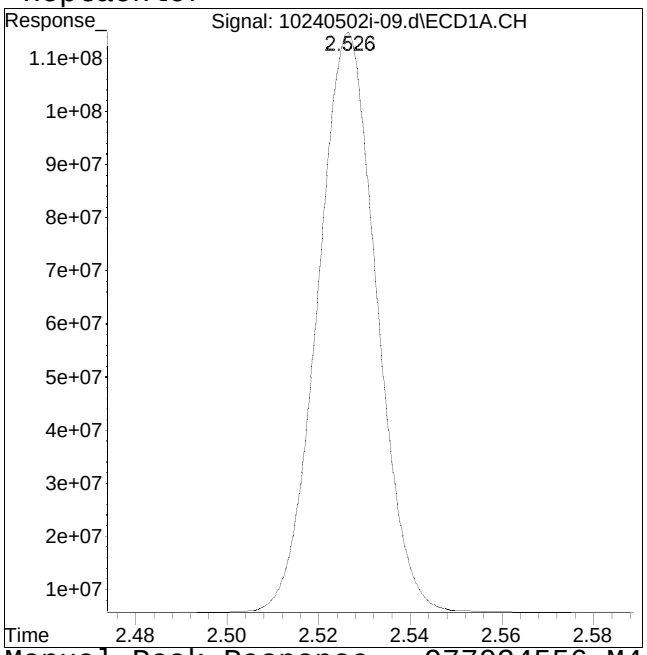
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #8: Heptachlor



Original Peak Response = 979520741

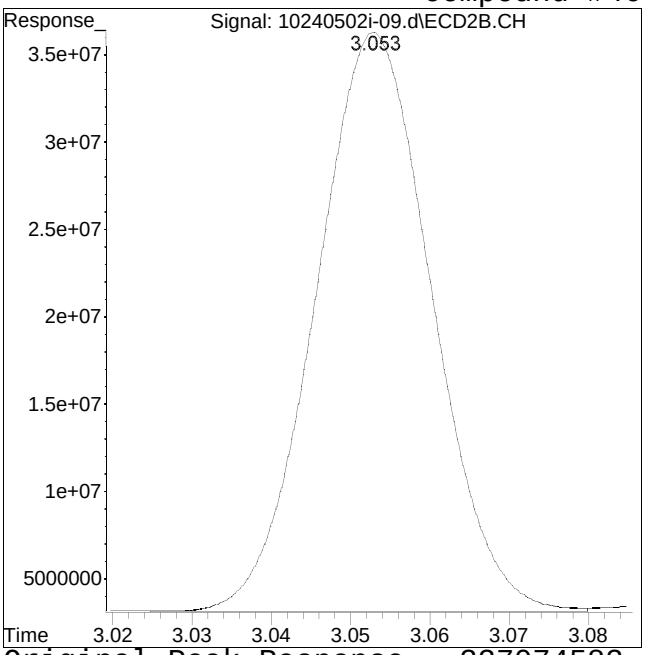


Manual Peak Response = 977024556 M4
M4 = Poor automated baseline construction.

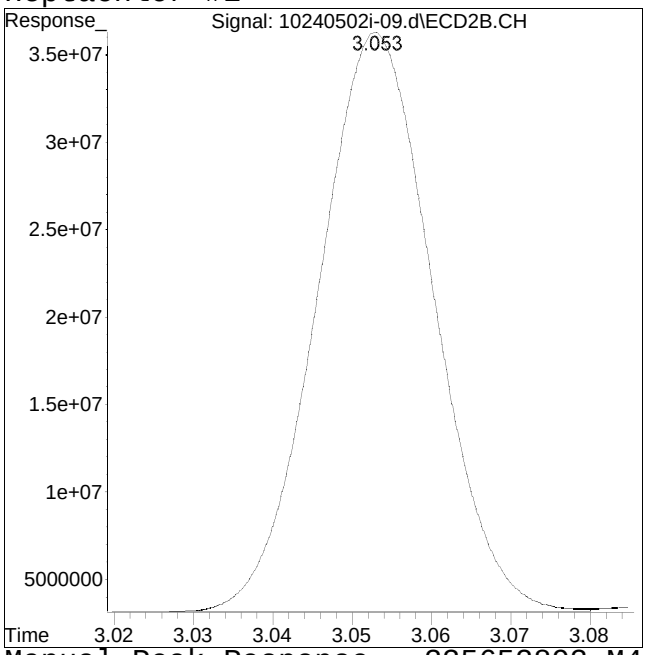
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #46: Heptachlor #2



Original Peak Response = 337074583



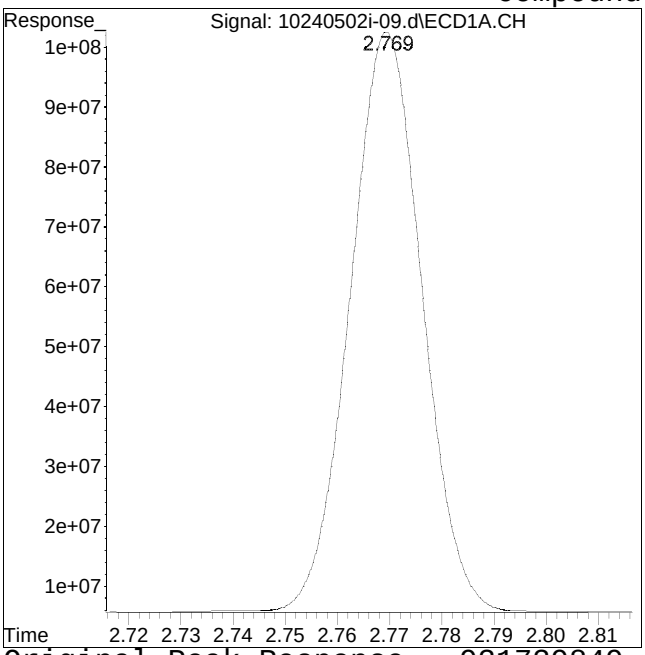
Manual Peak Response = 335652893 M4

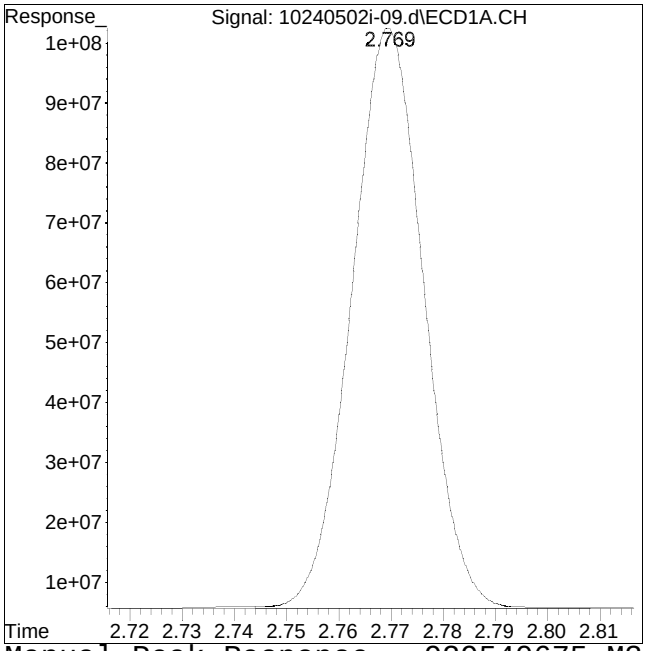
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #9: Aldrin



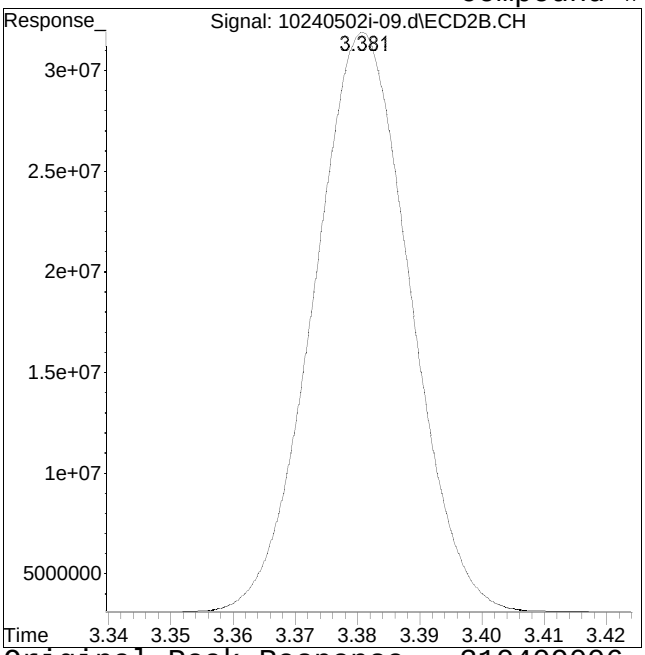


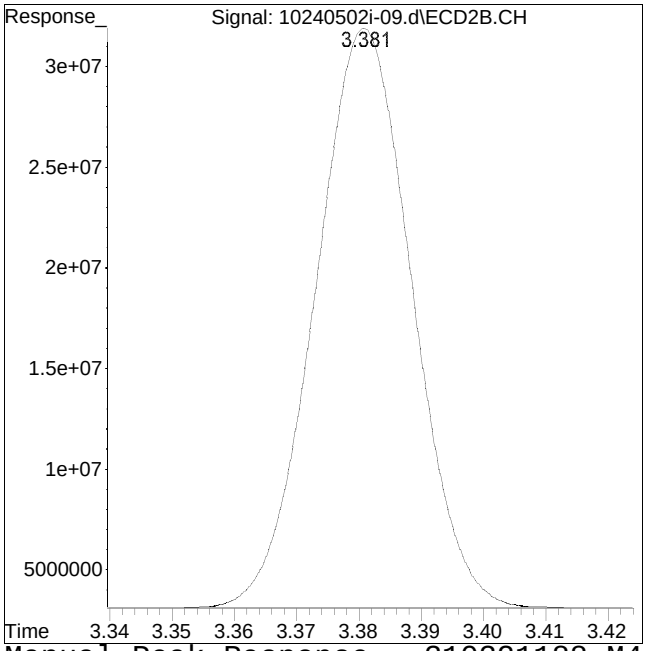
Original Peak Response = 931739849 Manual Peak Response = 929540675 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #47: Aldrin #2



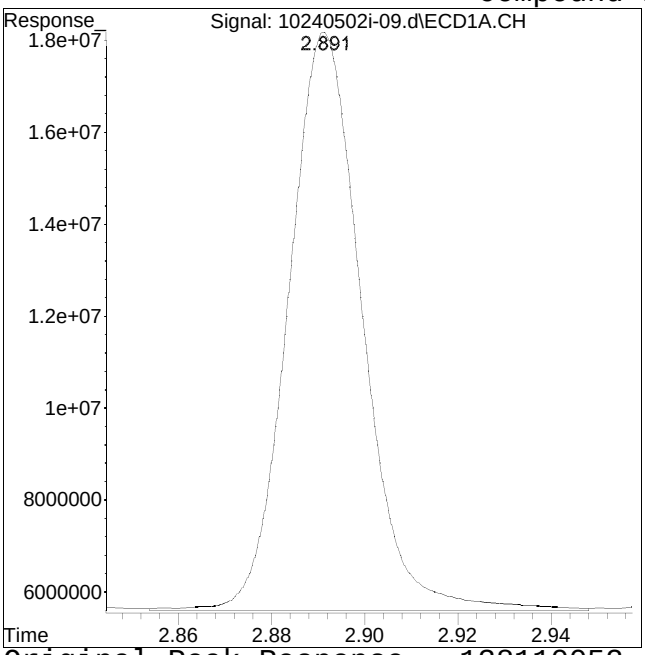


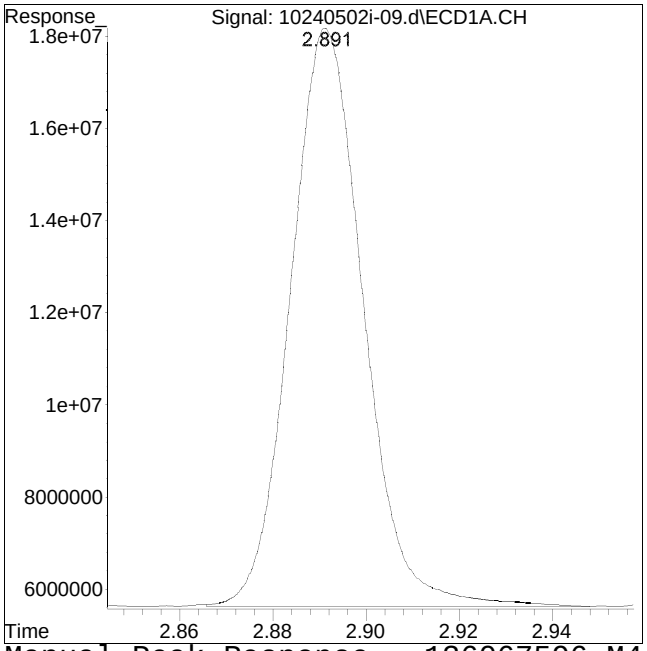
Original Peak Response = 310409006 Manual Peak Response = 310321188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #10: Alachlor



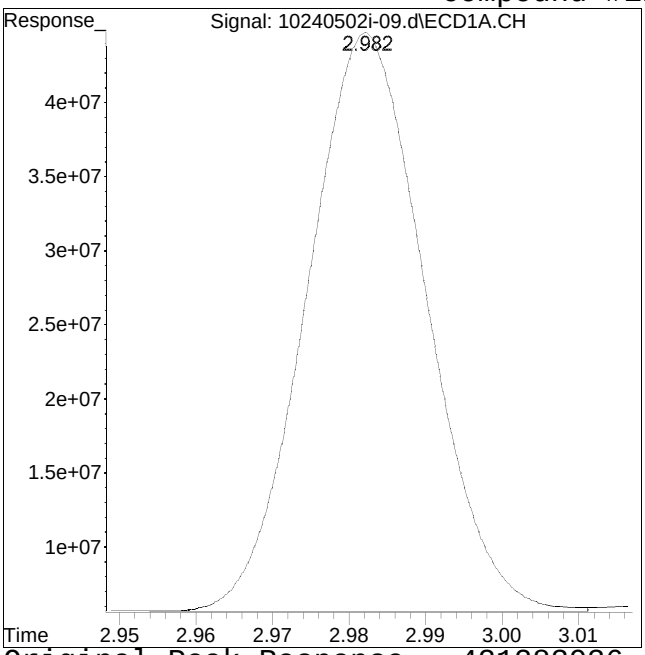


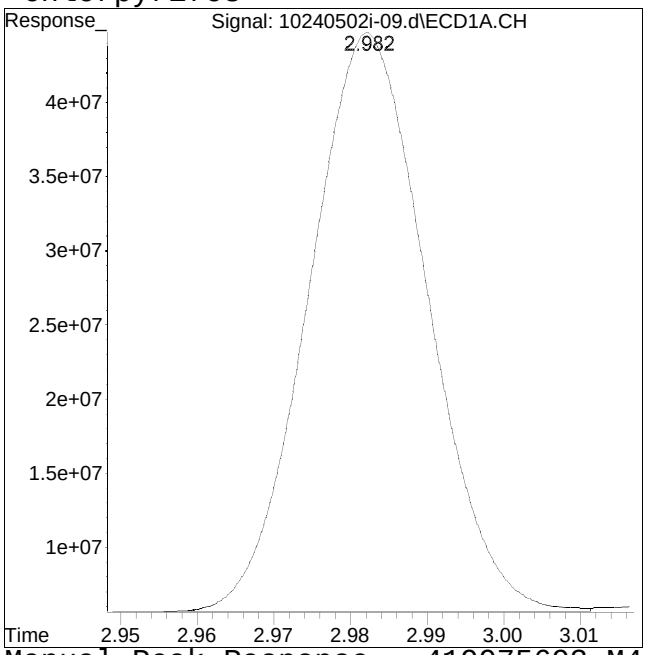
Original Peak Response = 138110052 Manual Peak Response = 136067596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #11: Chlorpyrifos





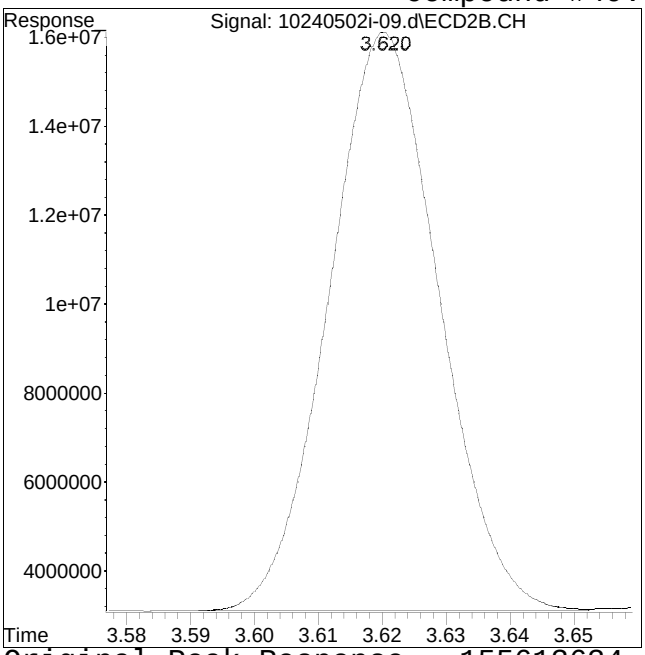
Original Peak Response = 421283936 Manual Peak Response = 419975693 M4
M4 = Poor automated baseline construction.

Manual Integration Report

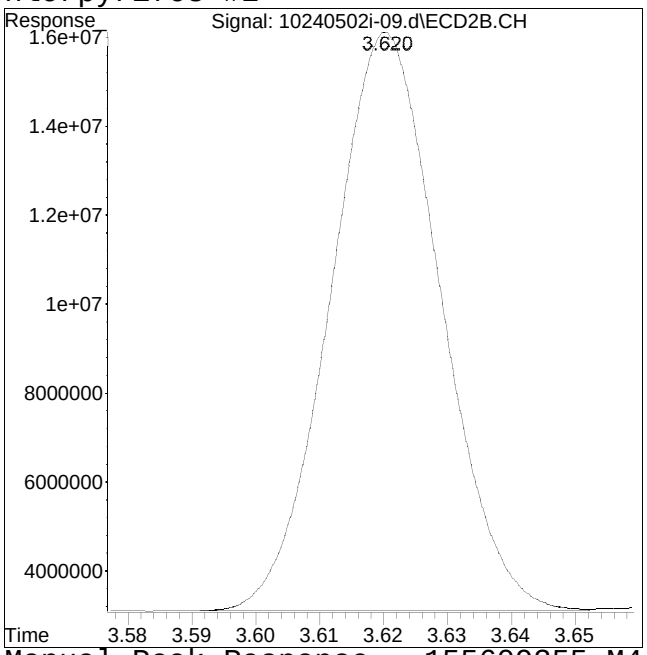
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 155613634



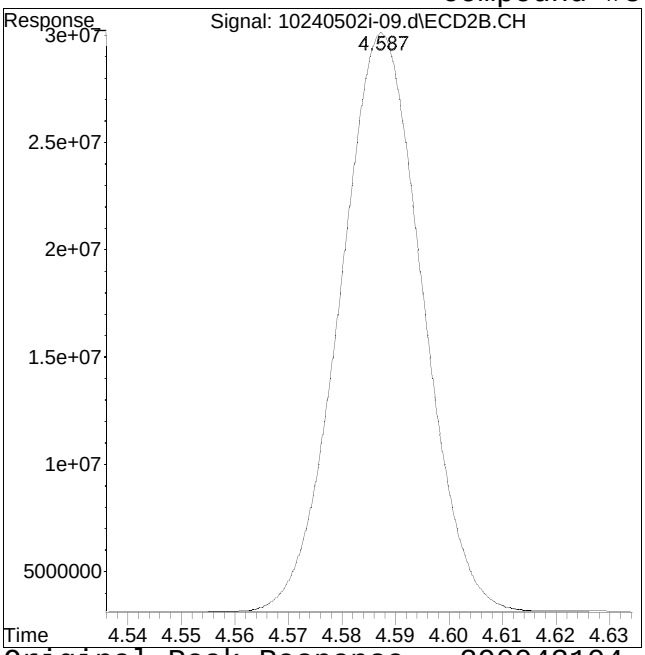
Manual Peak Response = 155609355 M4

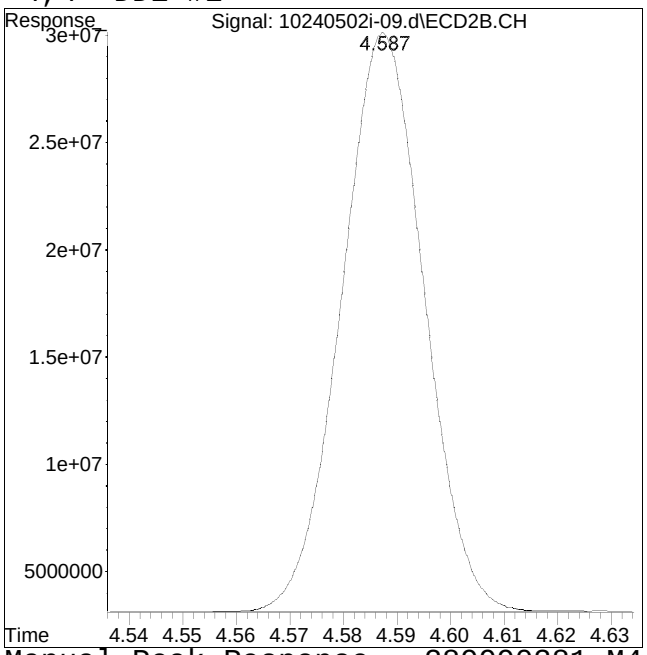
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #53: 4,4'-DDE #2





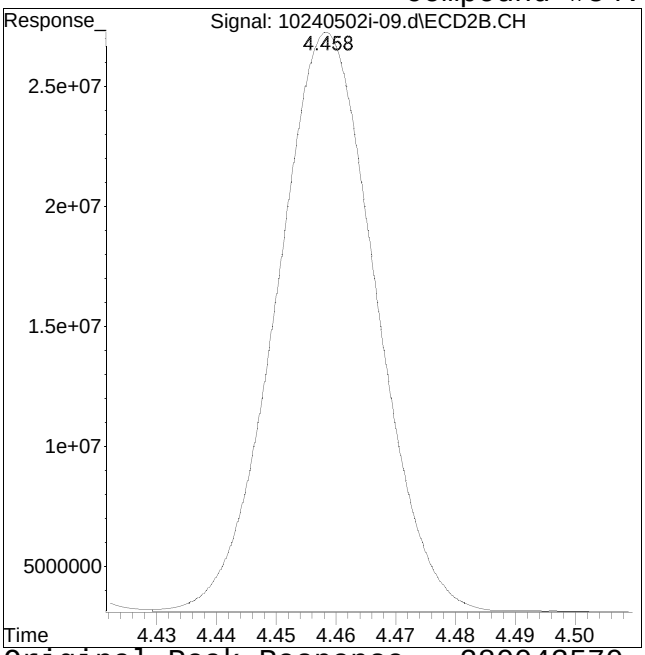
Original Peak Response = 290043104 Manual Peak Response = 289990381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

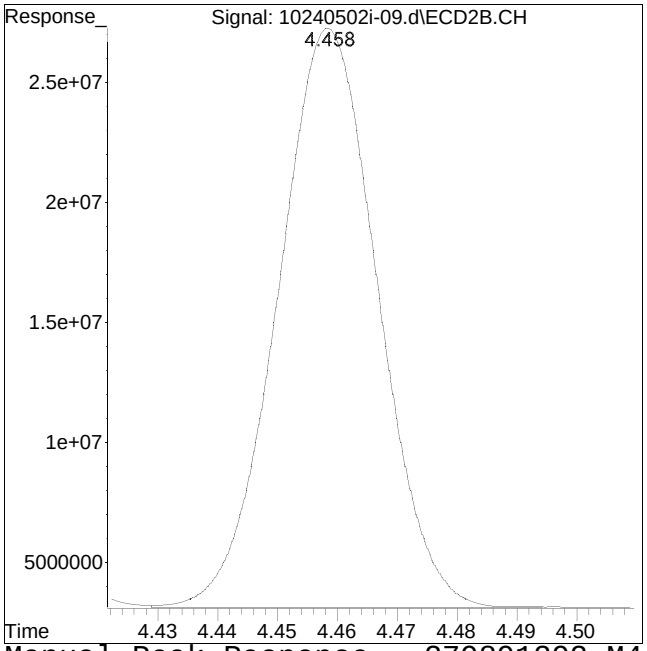
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #54: Endosulfan I #2



Original Peak Response = 280043570



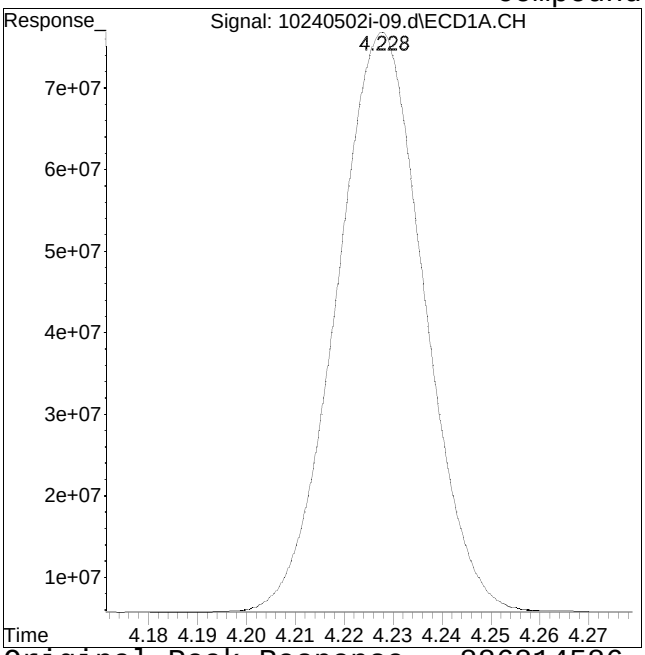
Manual Peak Response = 279891292 M4

M4 = Poor automated baseline construction.

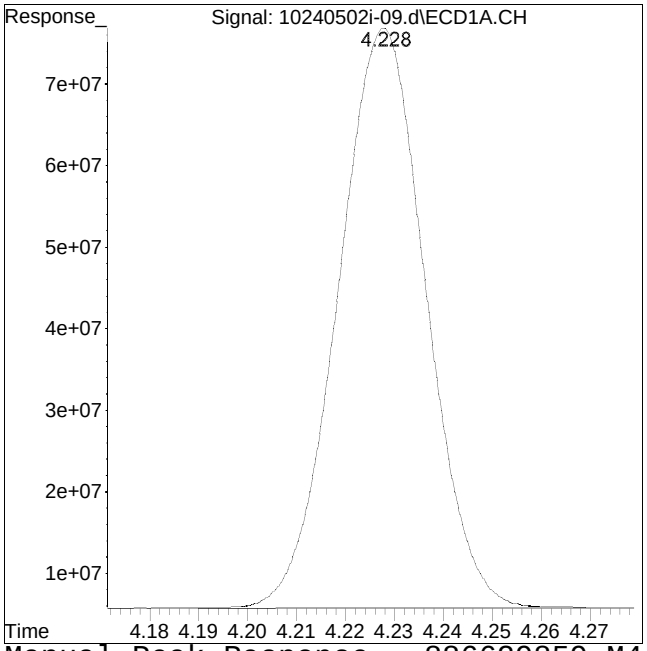
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #18: Endrin



Original Peak Response = 886814586



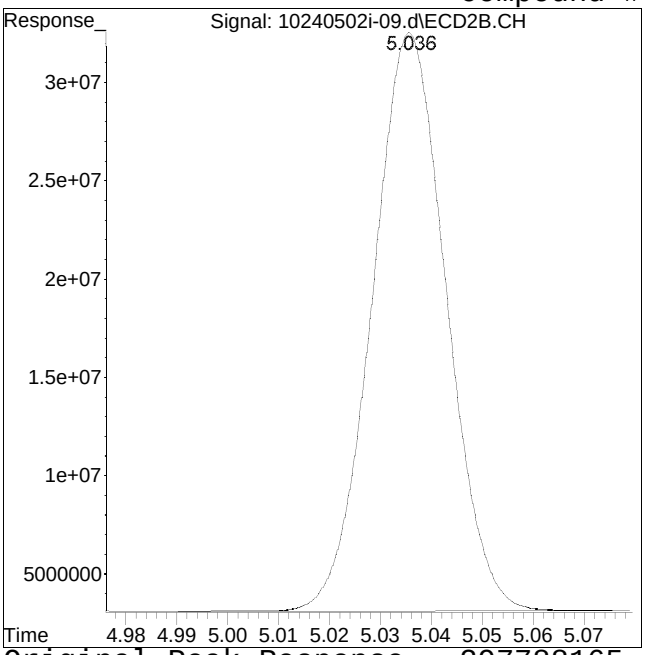
Manual Peak Response = 886629859 M4

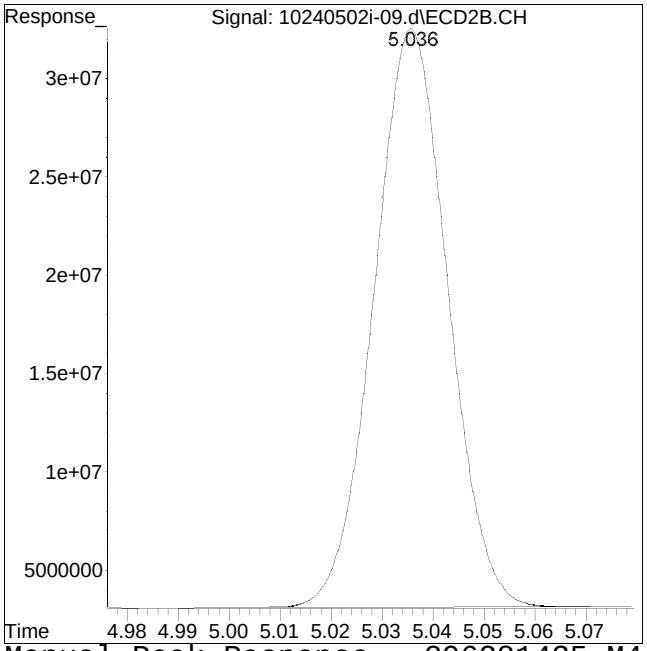
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #56: Endrin #2



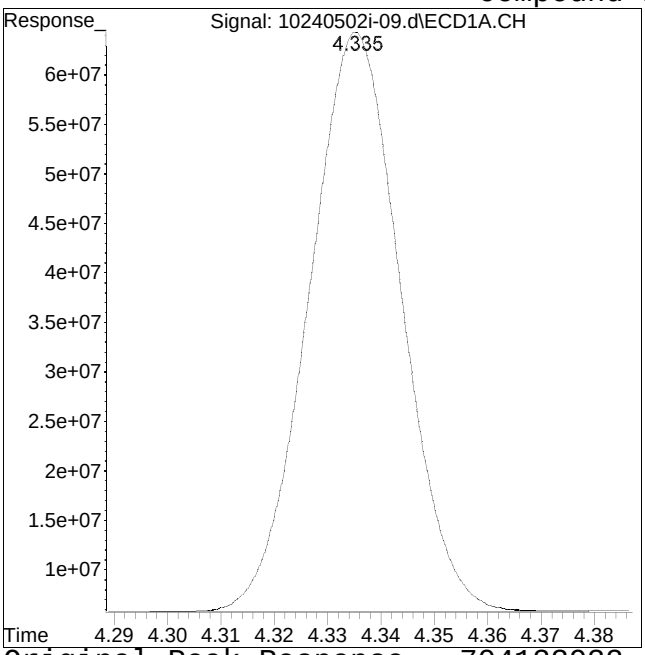


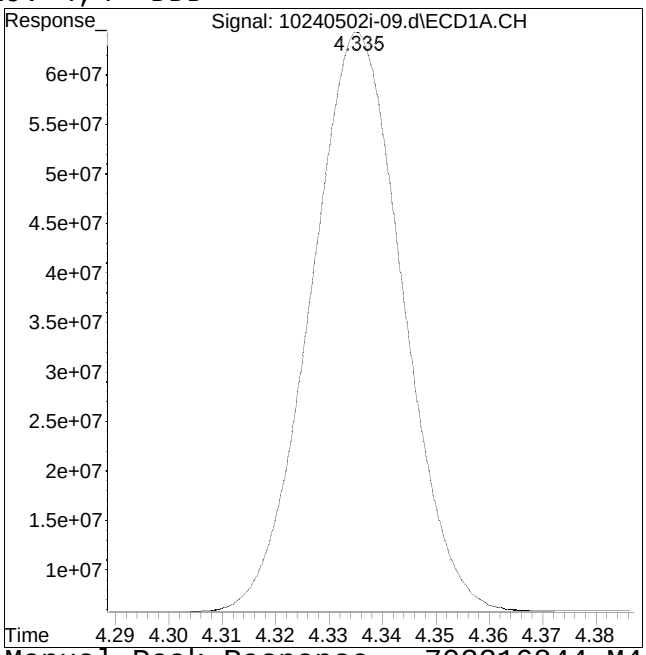
Original Peak Response = 297788165 Manual Peak Response = 296281435 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #19: 4,4'-DDD



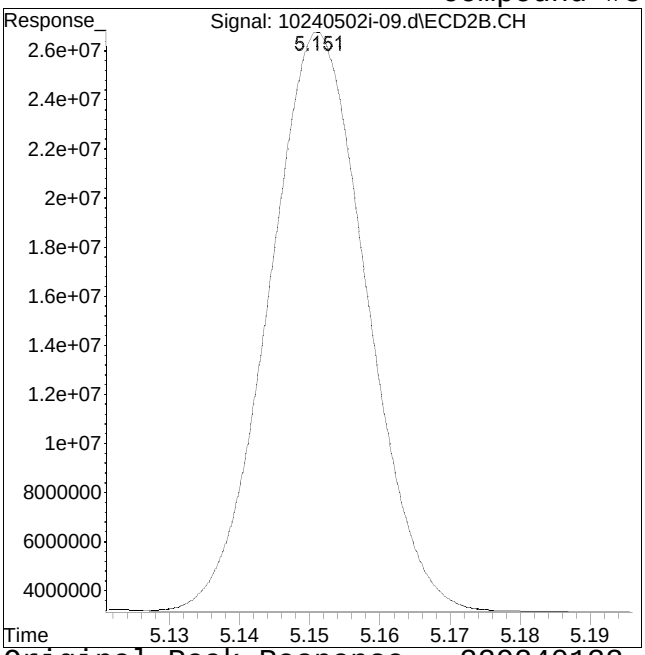


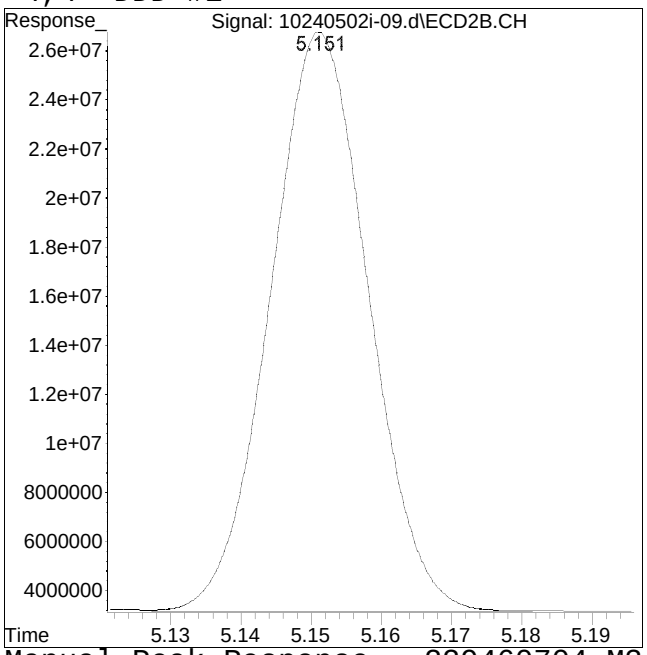
Original Peak Response = 704123932 Manual Peak Response = 702316844 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #57: 4,4'-DDD #2



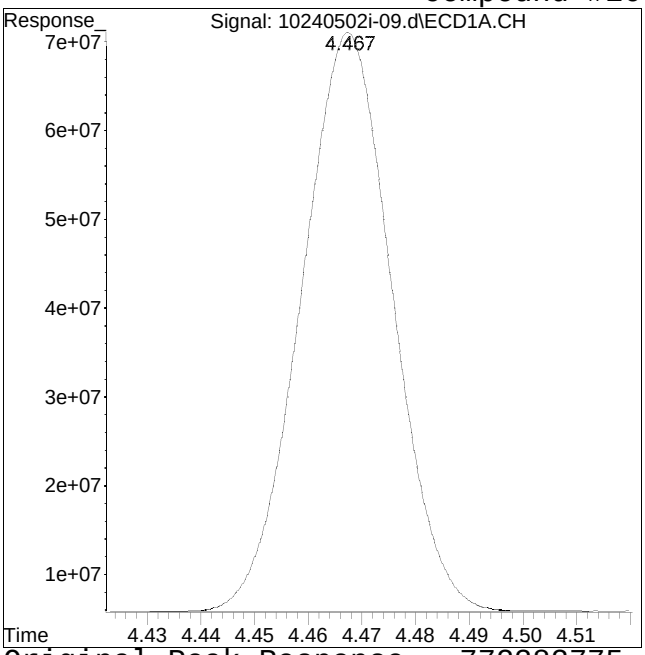


Original Peak Response = 229240133 Manual Peak Response = 229460704 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

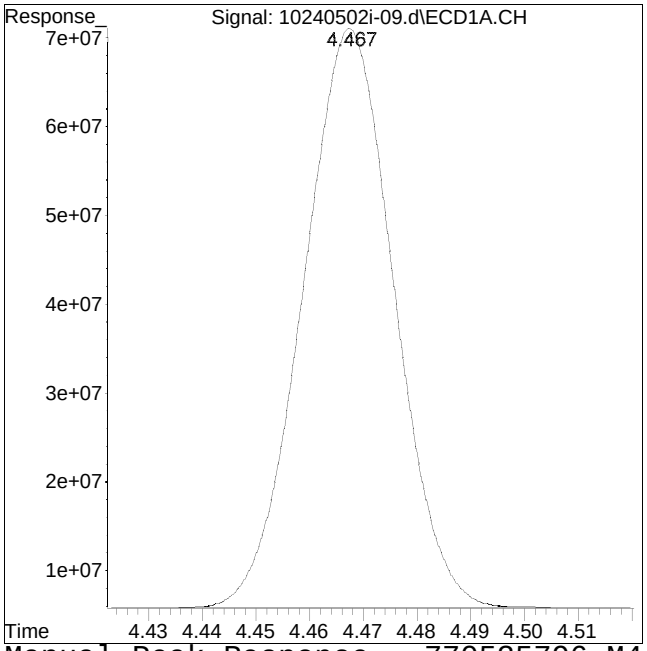
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #20: Endosulfan II



Original Peak Response = 772382775



Manual Peak Response = 770535796 M4

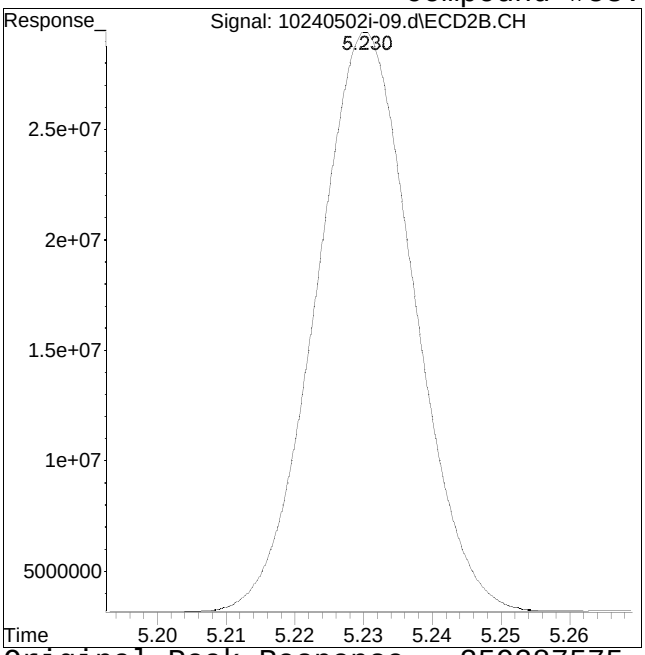
M4 = Poor automated baseline construction.

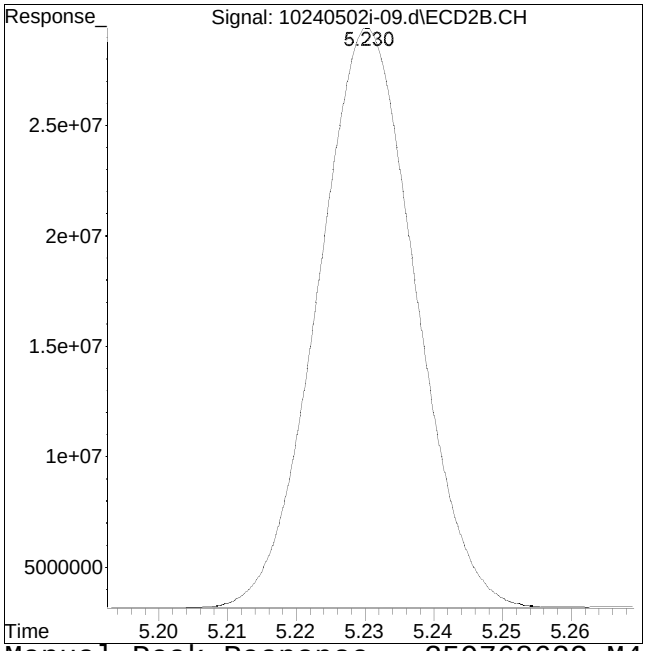
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #58: Endosulfan II #2



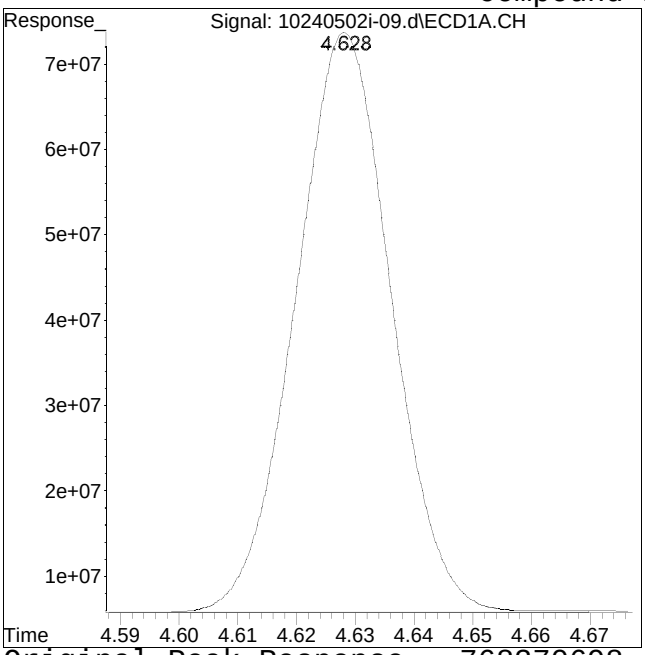


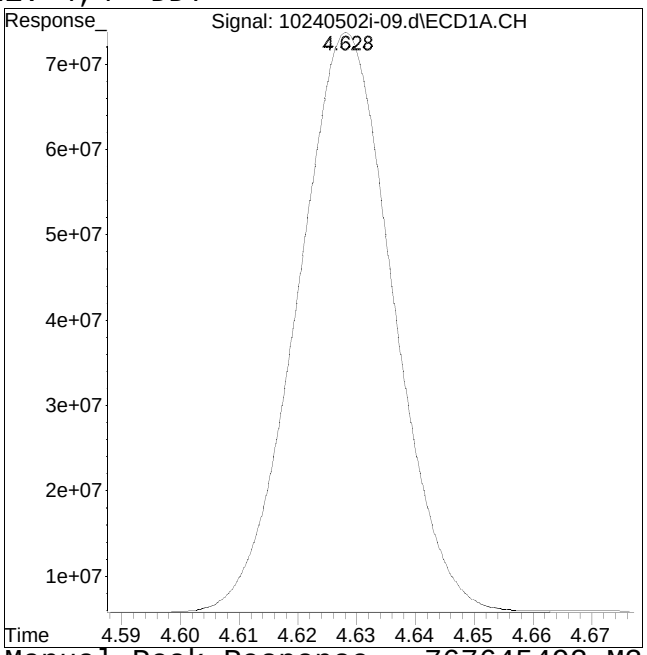
Original Peak Response = 259287575 Manual Peak Response = 259768622 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #21: 4,4'-DDT



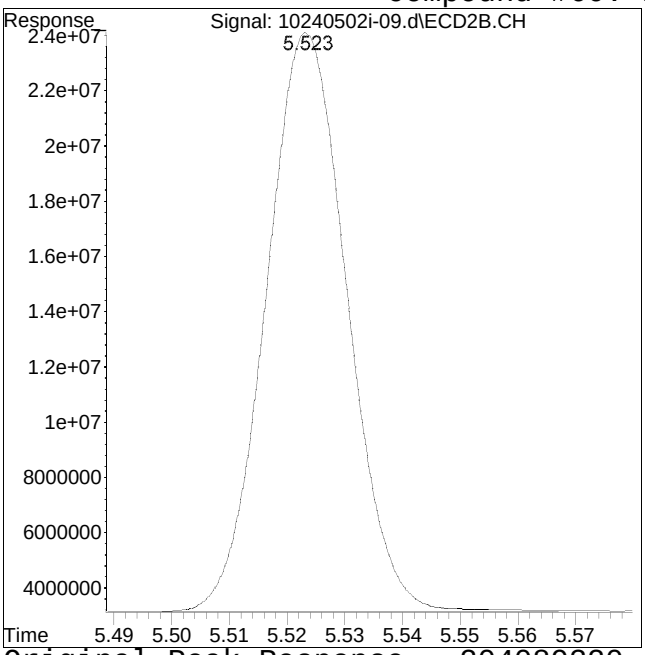


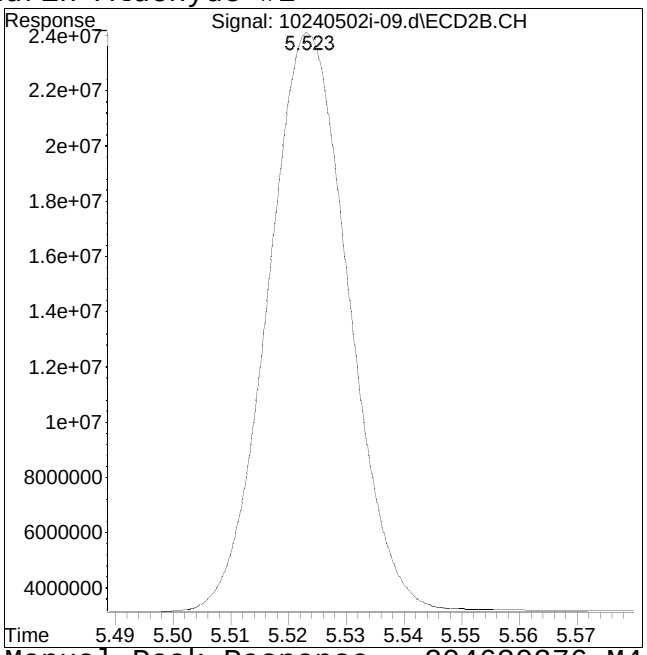
Original Peak Response = 768370698 Manual Peak Response = 767645492 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #60: Endrin Aldehyde #2



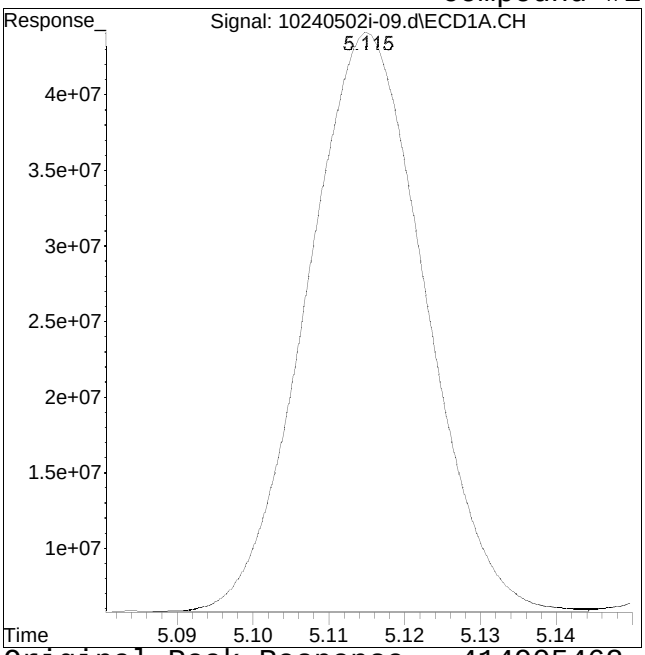


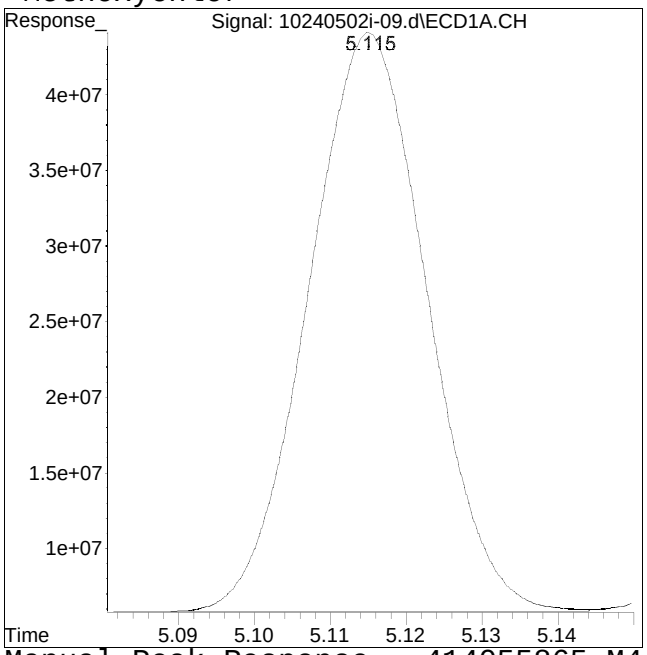
Original Peak Response = 204089320 Manual Peak Response = 204630376 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #23: Methoxychlor



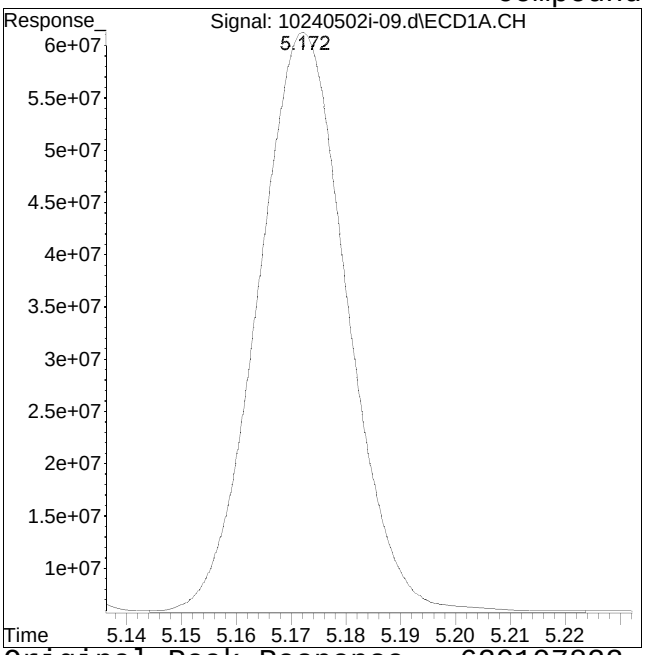


Original Peak Response = 414905462 Manual Peak Response = 414055865 M4
M4 = Poor automated baseline construction.

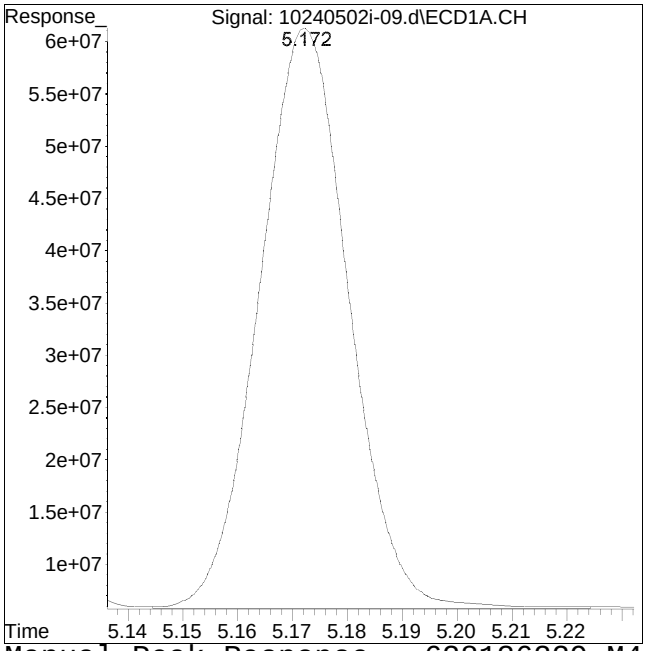
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #24: Mirex



Original Peak Response = 629107822



Manual Peak Response = 628136229 M4

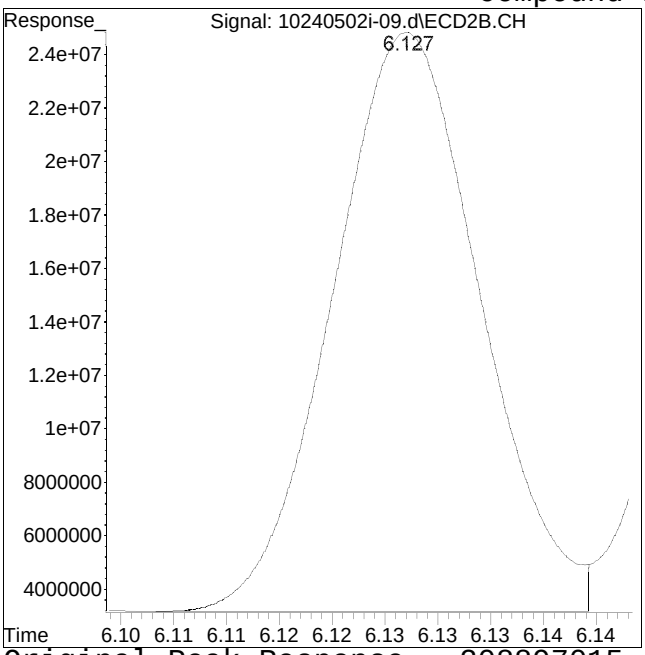
M4 = Poor automated baseline construction.

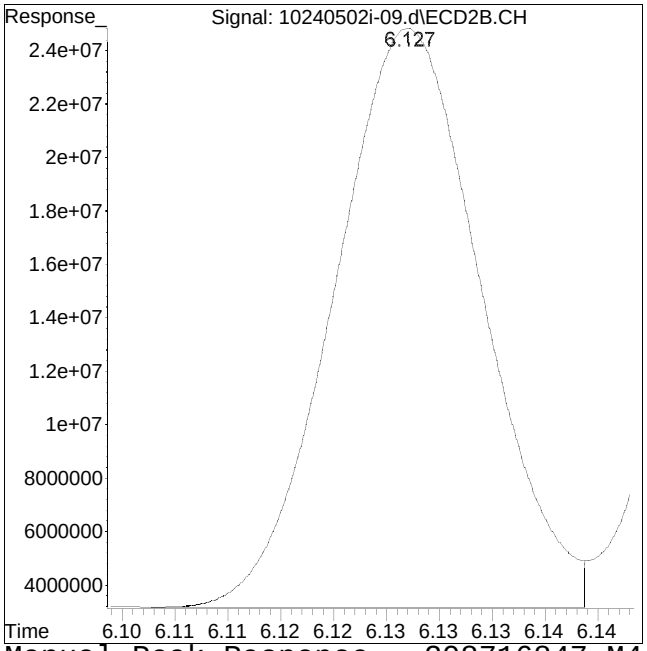
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #62: Mirex #2



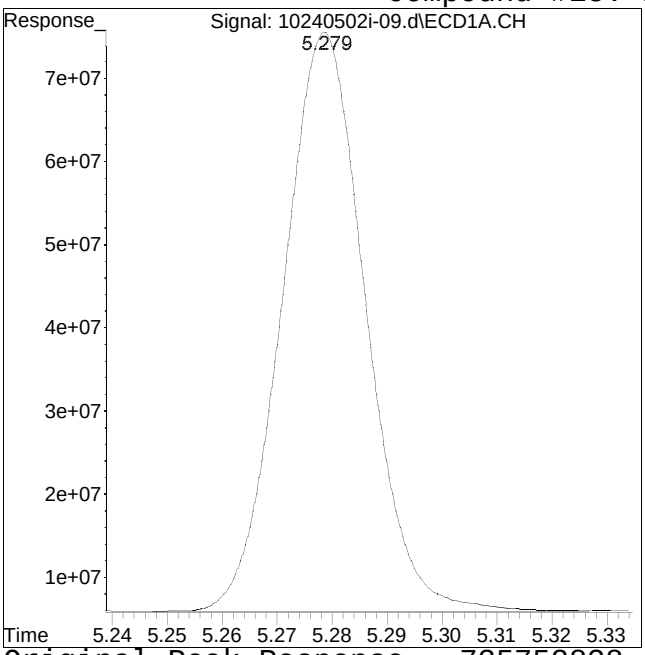


Original Peak Response = 208897015 Manual Peak Response = 208716847 M4
M4 = Poor automated baseline construction.

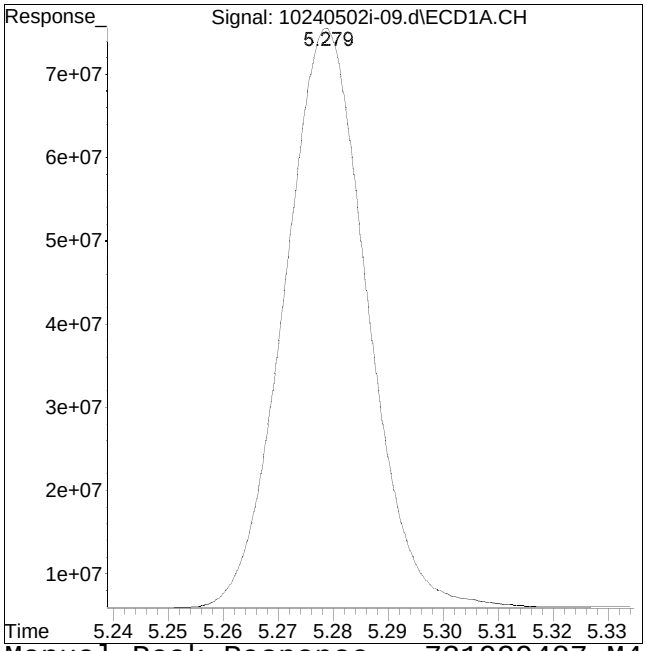
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 735752838



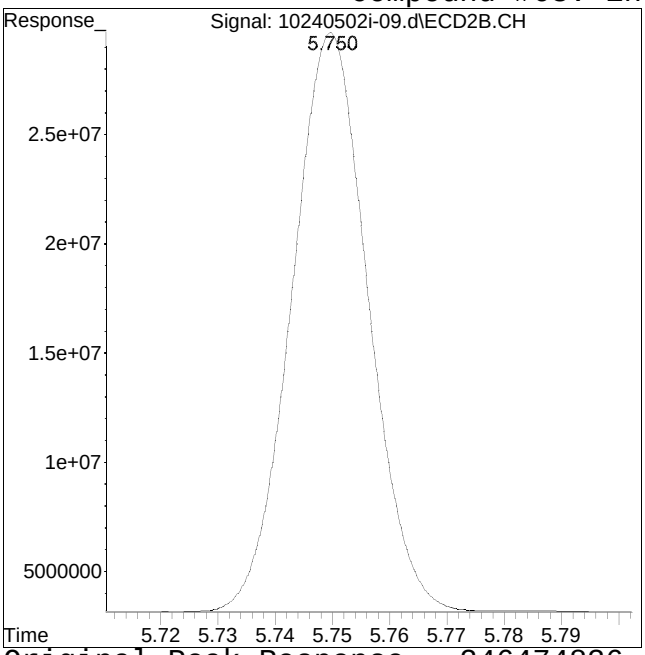
Manual Peak Response = 731929487 M4

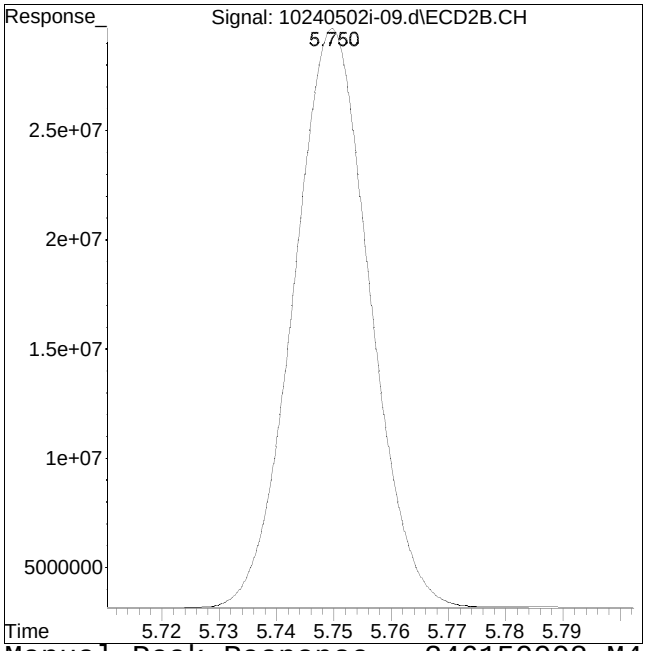
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #63: Endosulfan Sulfate #2



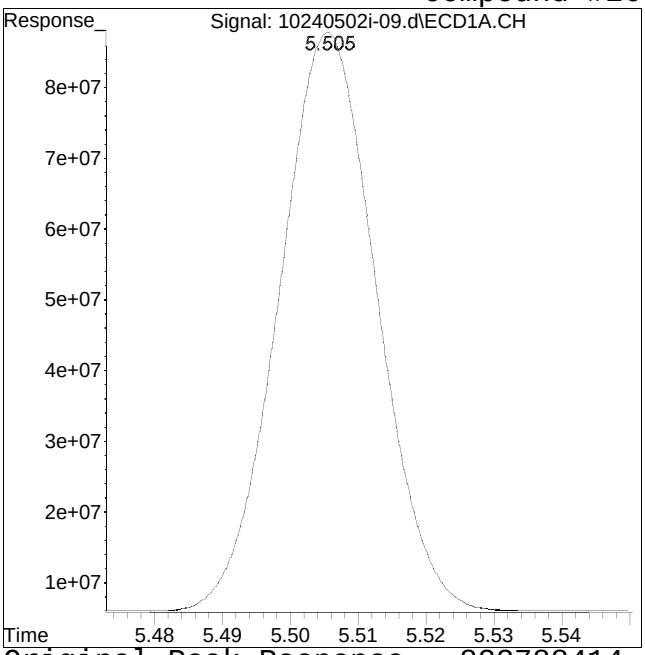


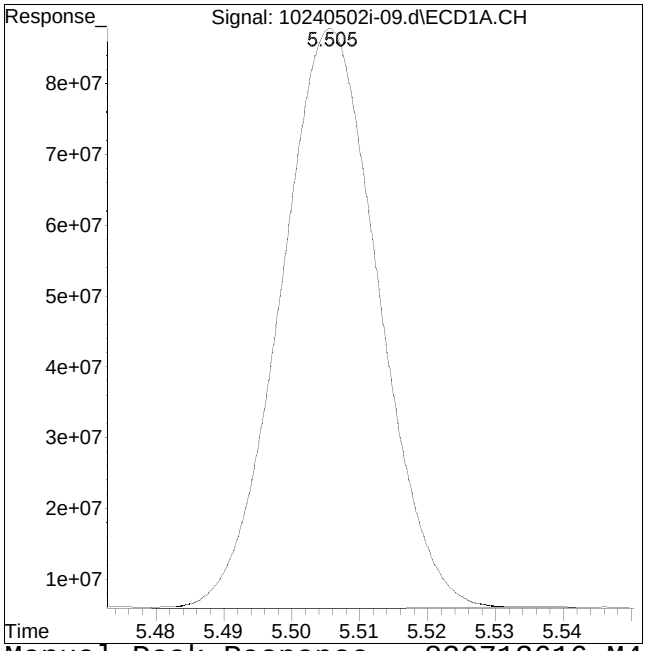
Original Peak Response = 246474836 Manual Peak Response = 246150008 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #26: Endrin Ketone



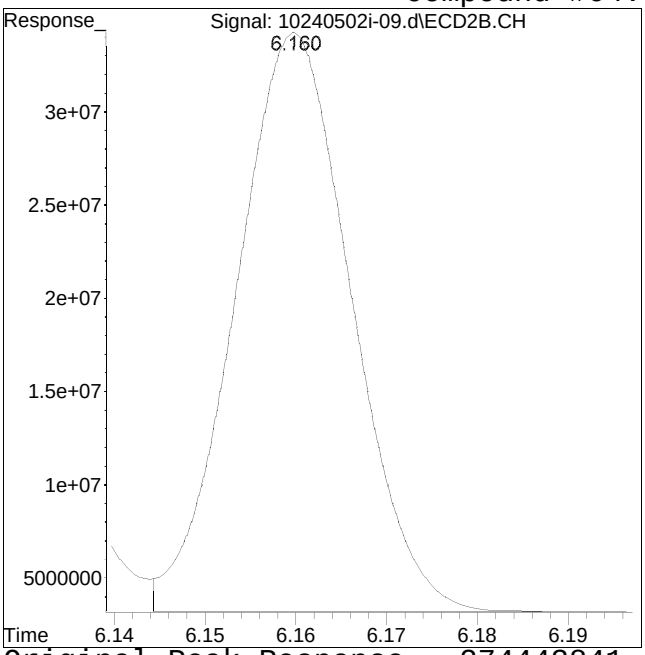


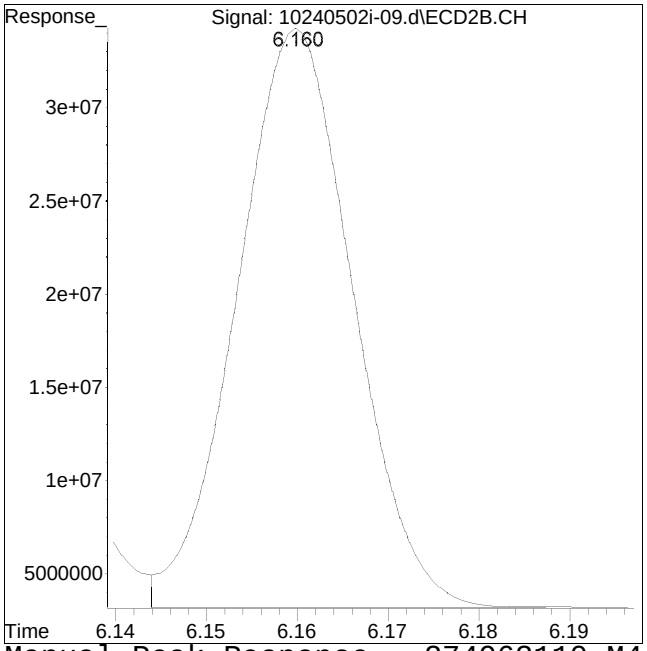
Original Peak Response = 823788414 Manual Peak Response = 820713616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #64: Endrin Ketone #2



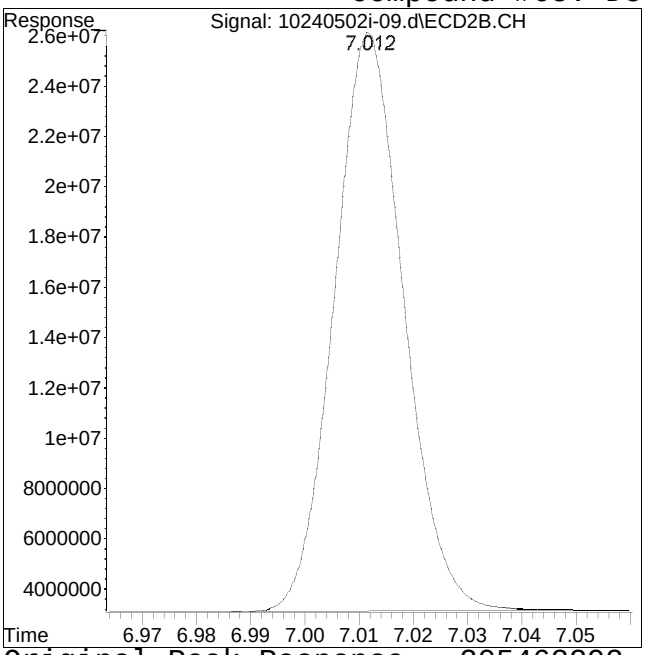


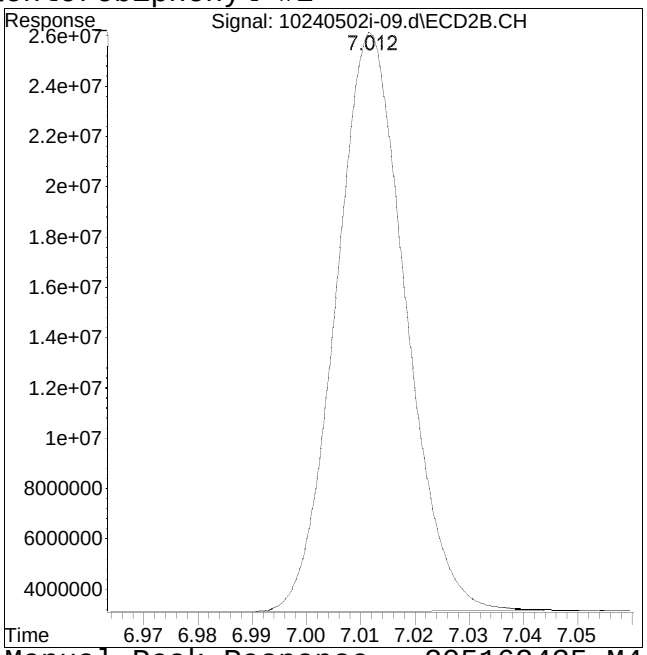
Original Peak Response = 274443841 Manual Peak Response = 274963110 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 205462292 Manual Peak Response = 205162435 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	381.7E6	136.0E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.663	1.920	1516.6E6	514.7E6	100.353	102.476
	Spiked Amount 50.000	Range 30 - 150		Recovery =		200.71%#	204.95%#
27) s	Decachlorobi	6.305	7.012	1227.5E6	399.2E6	97.034M3	97.735
	Spiked Amount 50.000	Range 30 - 150		Recovery =		194.07%#	195.47%#
	Target Compounds						
3) t	Hexachlorobe	1.876	2.251	1601.5E6	562.4E6	99.703M3	102.105M3
4) t	alpha-BHC	1.976	2.350	2339.1E6	795.0E6	102.677M4	105.381M4
5) t	gamma-BHC (l	2.179	2.644	2119.8E6	719.3E6	101.983M3	104.096M4
6) t	beta-BHC	2.235	2.709	849.8E6	300.4E6	97.856M4	100.579M4
7) t	delta-BHC	2.364	2.983	2158.6E6	733.5E6	102.639M4	104.692M3
8) t	Heptachlor	2.526	3.053	1968.2E6	683.3E6	99.678M4	102.259M4
9) t	Aldrin	2.769	3.381	1888.7E6	641.6E6	100.535M4	103.856
10) t	Alachlor	2.892	3.257	250.3E6	91322149	91.003M4	94.557M4
11) t	Chlorpyrifos	2.982	3.620	784.7E6	298.5E6	92.447M4	96.362M4
12) t	Heptachlor E	3.317	4.010	1719.8E6	600.6E6	98.725	101.202M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.439	4.232	1568.9E6	539.6E6	100.045M4	102.708M4
14)	t	alpha-Chlord	3.574	4.398	1764.7E6	604.3E6	99.859M3	102.041
15)	t	4,4'-DDE	3.671	4.587	1782.4E6	601.1E6	100.691	104.125M3
16)	t	Endosulfan I	3.712	4.458	1634.9E6	565.0E6	98.415	101.404M4
17)	t	Dieldrin	3.972	4.743	1739.1E6	588.5E6	99.828M3	103.265M4
18)	t	Endrin	4.228	5.035	1782.4E6	604.7E6	99.469M4	102.518
19)	t	4,4'-DDD	4.335	5.151	1422.3E6	477.3E6	100.208M4	104.584M4
20)	t	Endosulfan I	4.467	5.229	1523.0E6	520.8E6	97.796M4	100.712M4
21)	t	4,4'-DDT	4.628	5.425	1580.0E6	532.2E6	101.841M3	103.103M3
22)	t	Endrin Aldeh	4.885	5.522	1252.8E6	431.2E6	102.921M4	105.843M4
23)	t	Methoxychlor	5.115	5.983	793.4E6	269.5E6	94.811M4	98.657M3
24)	t	Mirex	5.172	6.127	1223.5E6	405.4E6	96.375M3	97.575M4
25)	t	Endosulfan S	5.278	5.749	1447.8E6	492.9E6	97.872M4	100.593
26)	t	Endrin Keton	5.505	6.159	1627.3E6	550.8E6	98.106M4	100.619M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

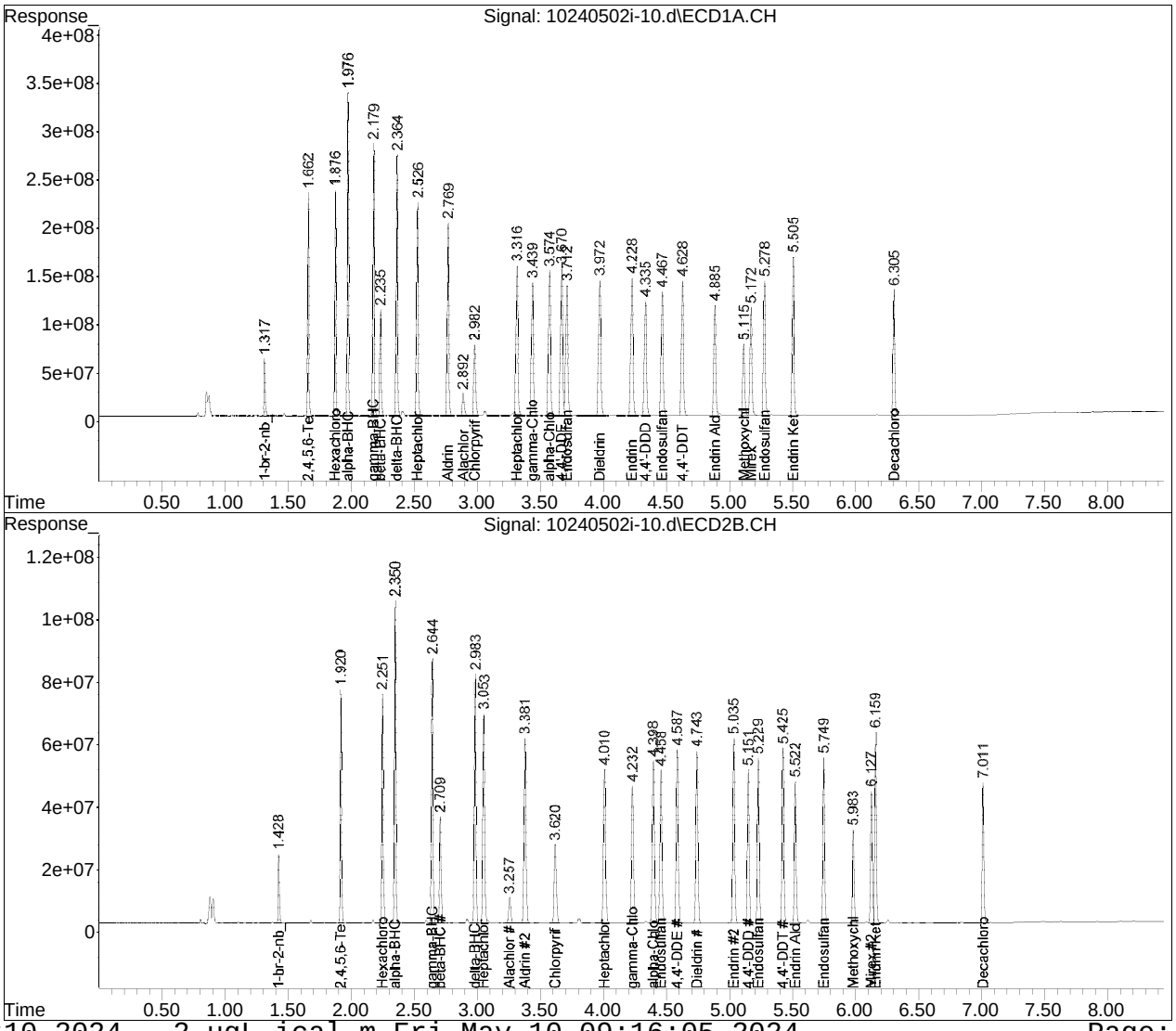
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

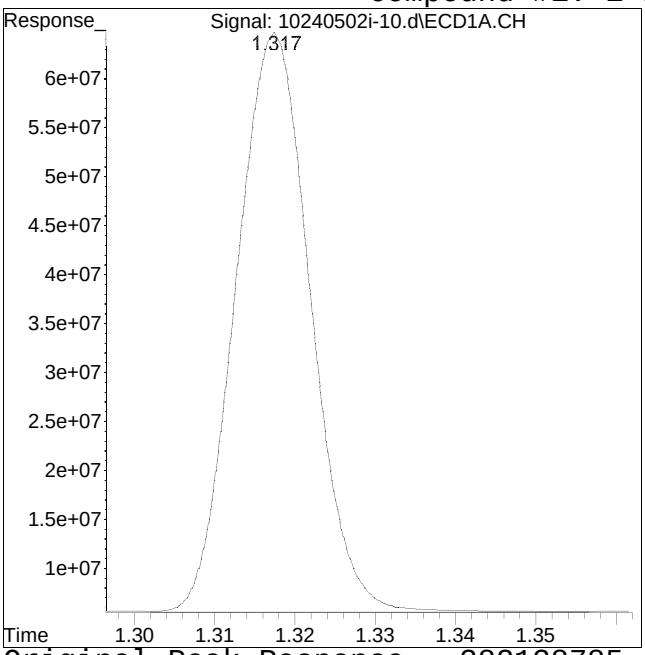
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

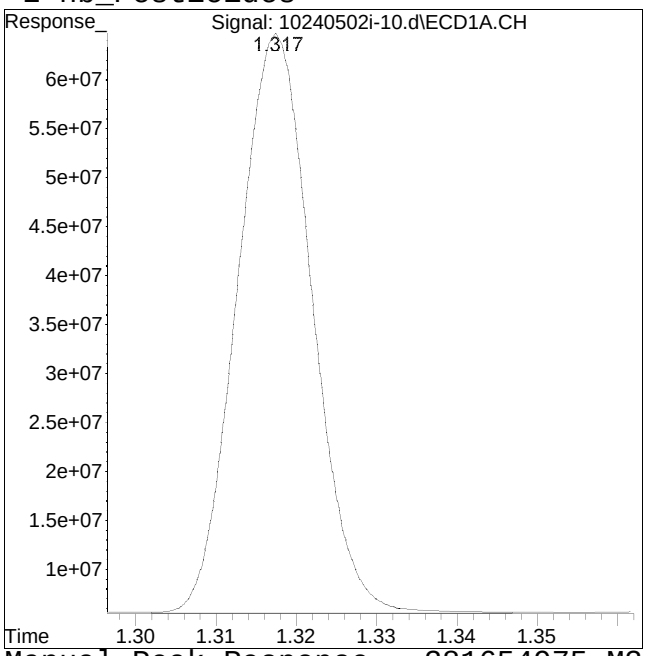


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #1: 1-br-2-nb_Pesticides





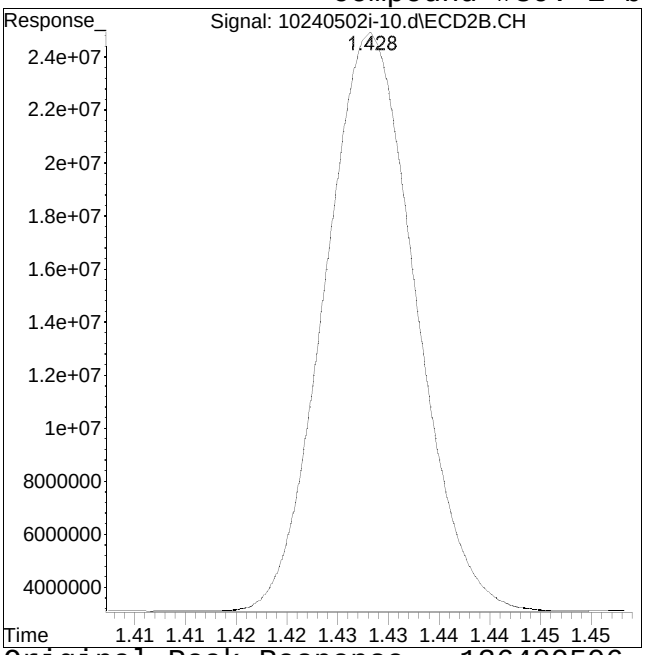
Original Peak Response = 382138785 Manual Peak Response = 381654975 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

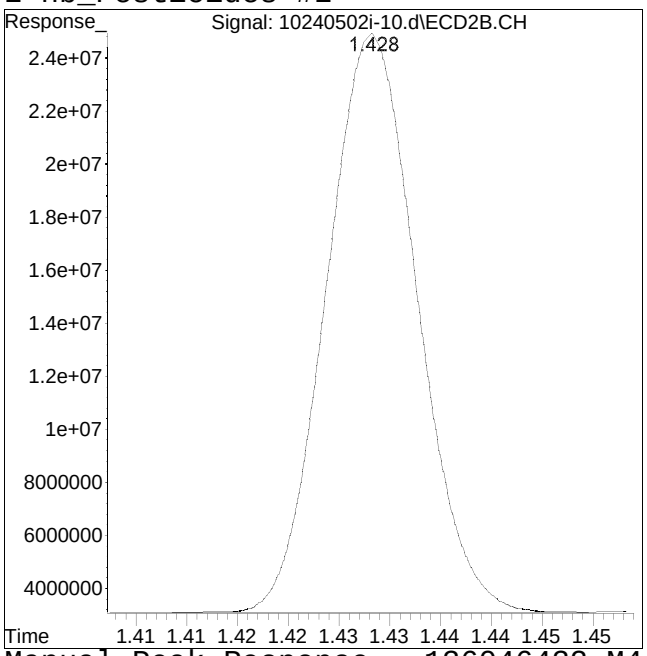
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #39: 1-br-2-nb_Pesticides #2





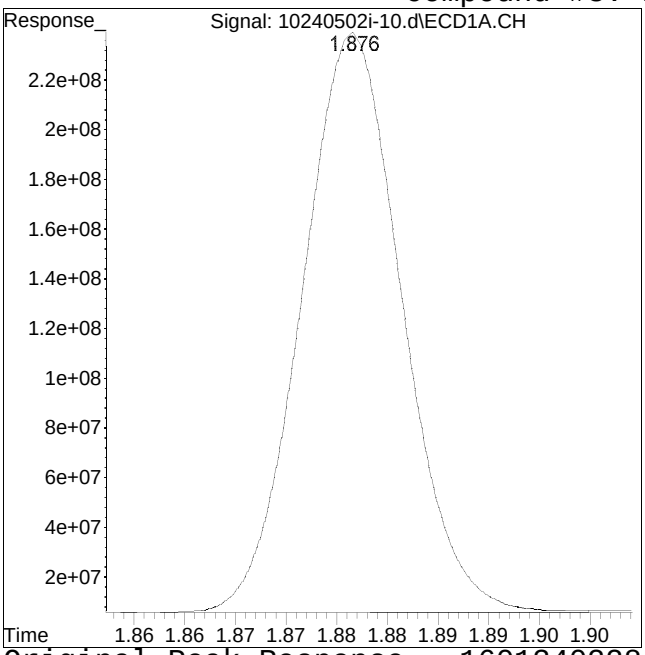
Original Peak Response = 136480506 Manual Peak Response = 136046432 M4
M4 = Poor automated baseline construction.

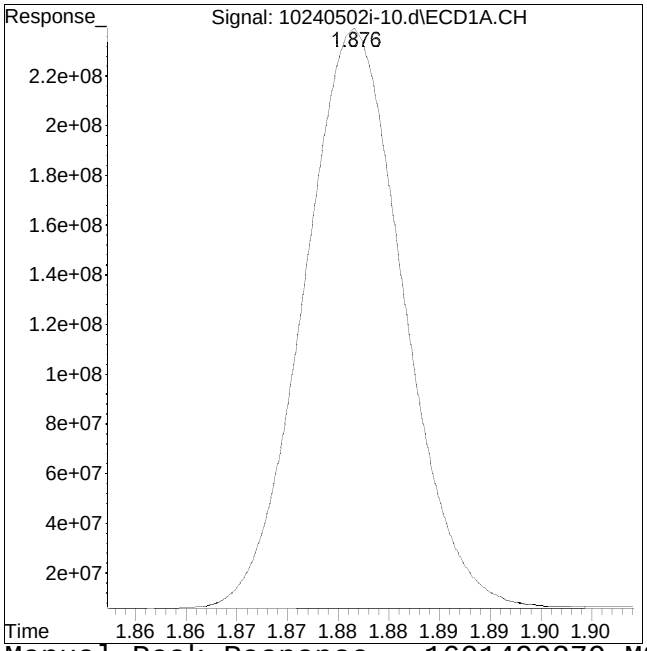
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #3: Hexachlorobenzene





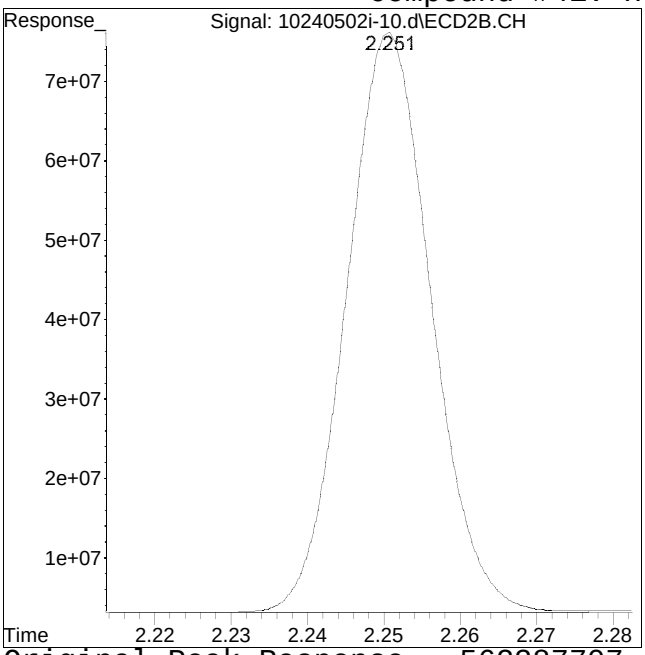
Original Peak Response = 1601340228 Manual Peak Response = 1601490279 M3

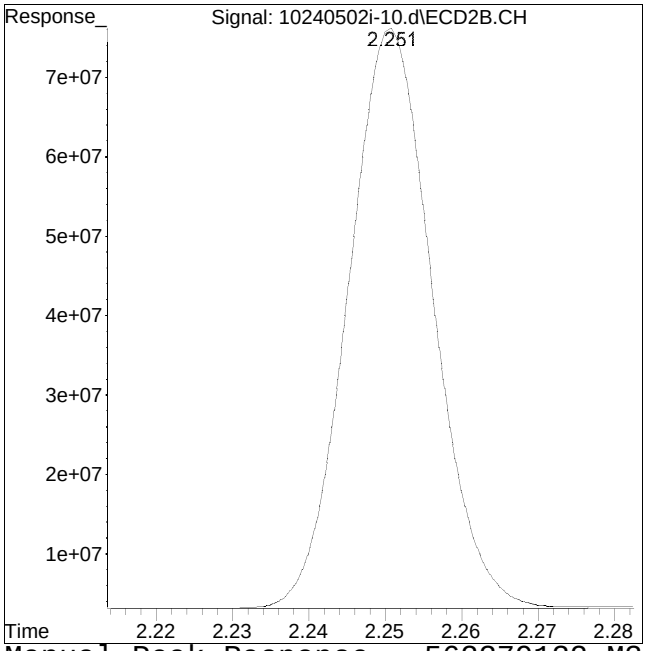
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #41: Hexachlorobenzene #2



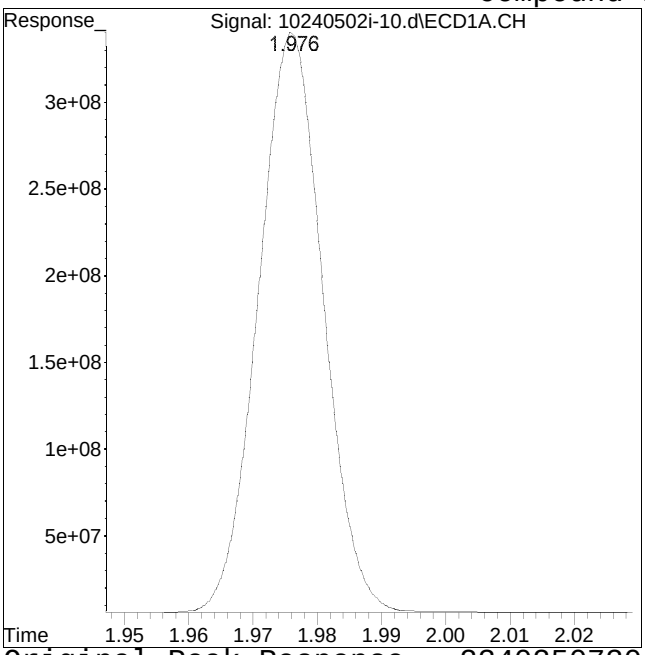


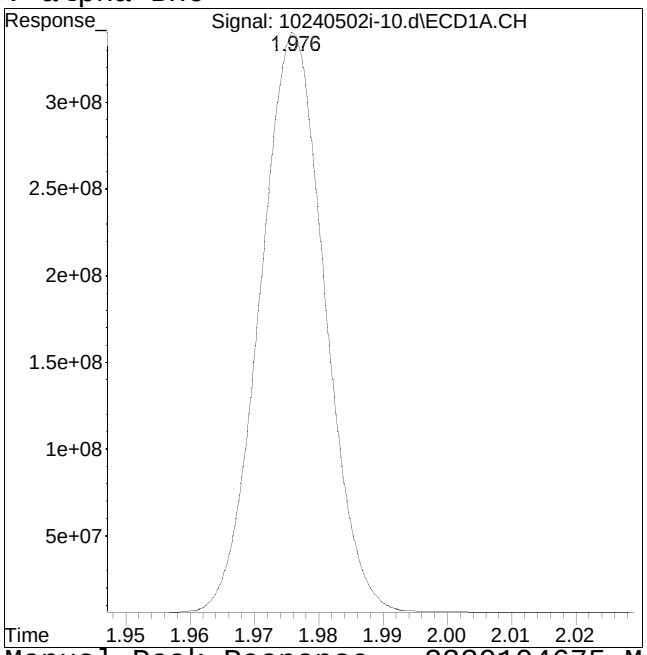
Original Peak Response = 562387707 Manual Peak Response = 562379132 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #4: alpha-BHC



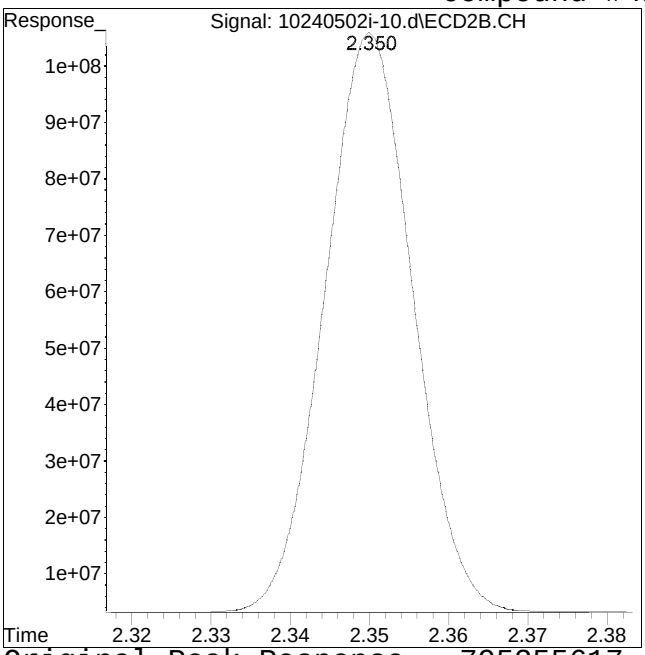


Original Peak Response = 2340250730 Manual Peak Response = 2339104675 M4
M4 = Poor automated baseline construction.

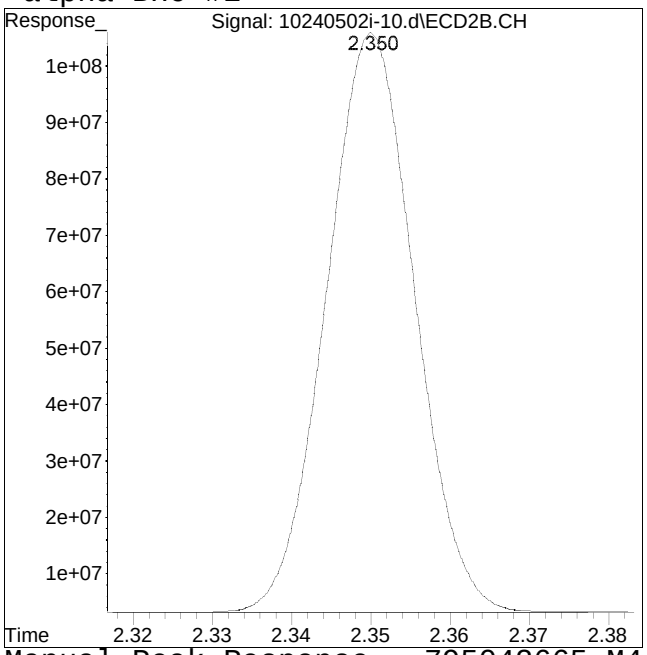
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #42: alpha-BHC #2



Original Peak Response = 795255617

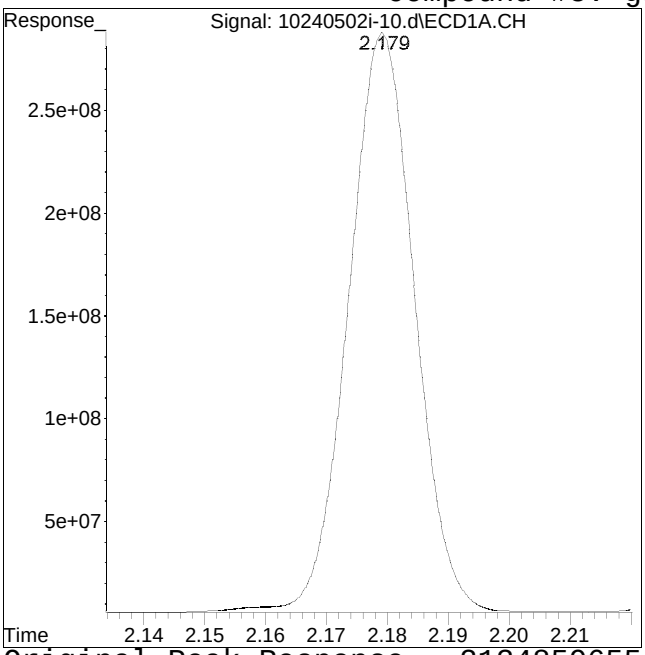


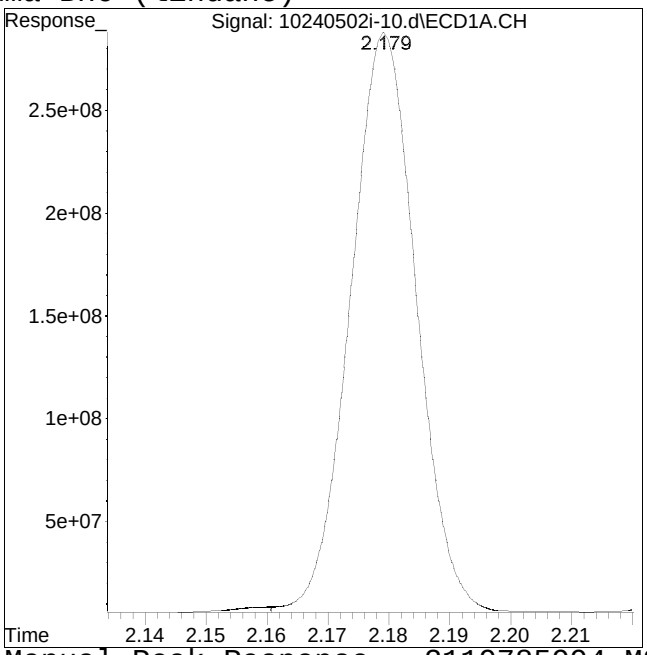
Manual Peak Response = 795042665 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #5: gamma-BHC (lindane)





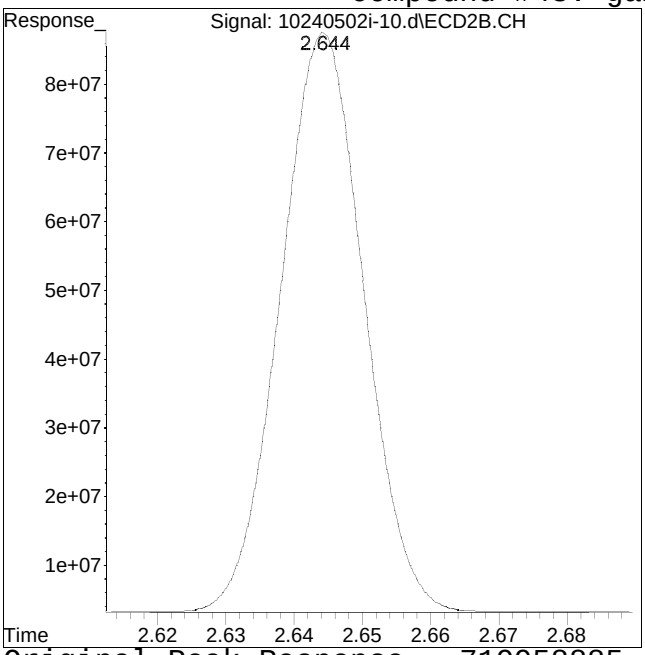
Original Peak Response = 2134859655 Manual Peak Response = 2119785994 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

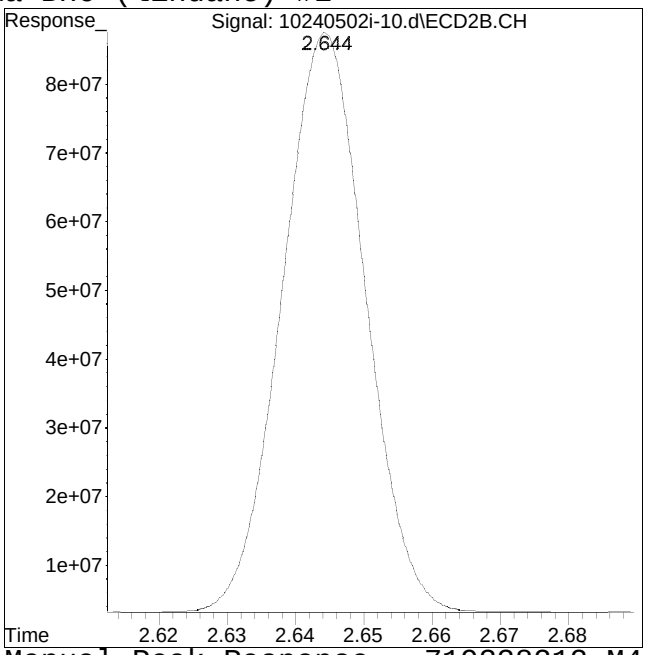
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #43: gamma-BHC (lindane) #2



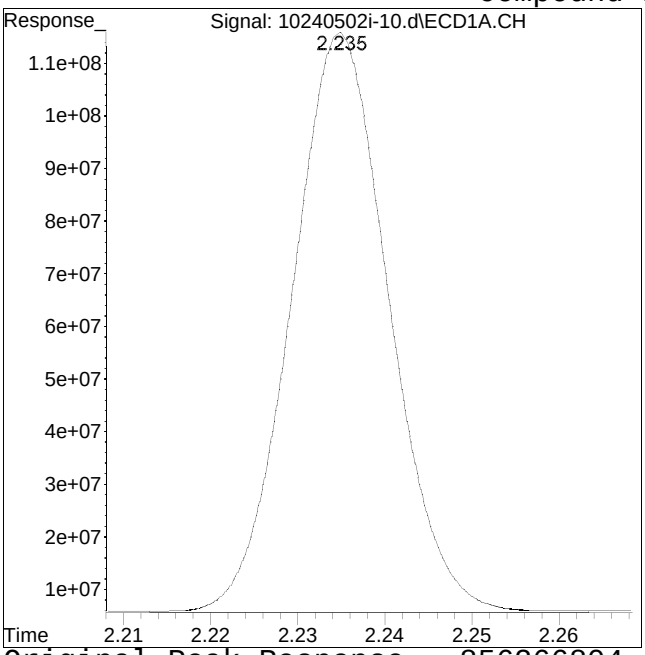


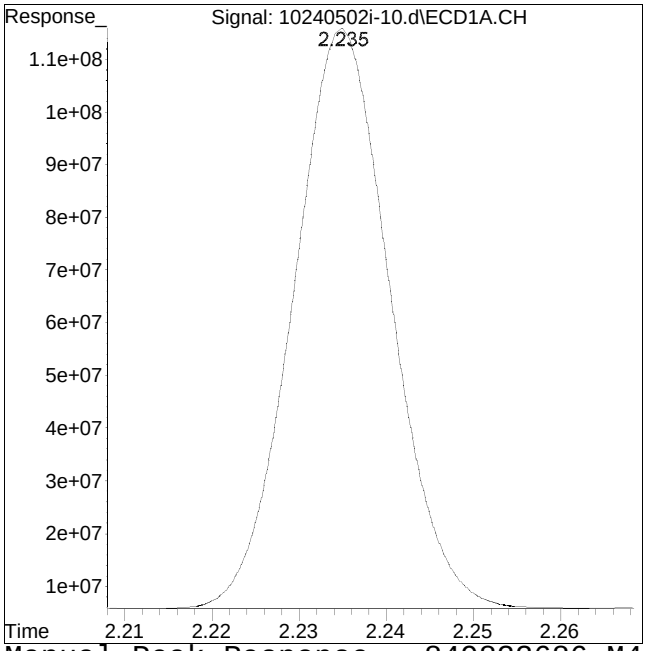
Original Peak Response = 719958885 Manual Peak Response = 719338212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #6: beta-BHC



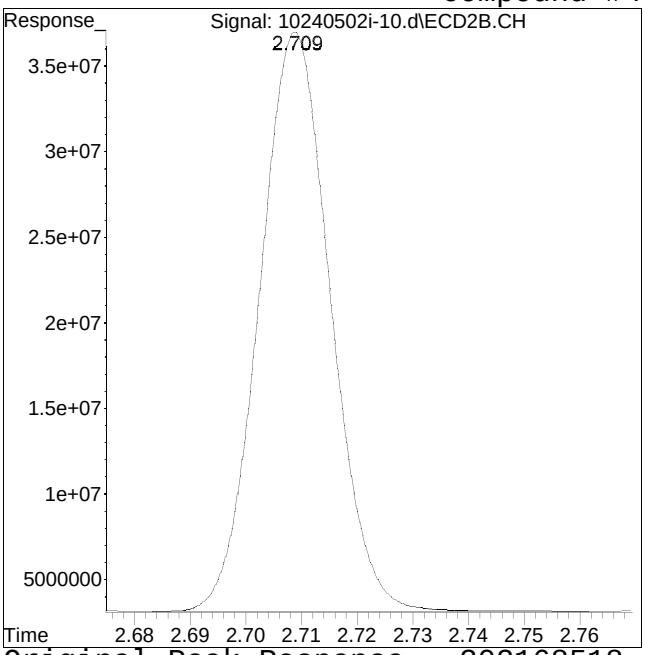


Original Peak Response = 856266804 Manual Peak Response = 849833686 M4
M4 = Poor automated baseline construction.

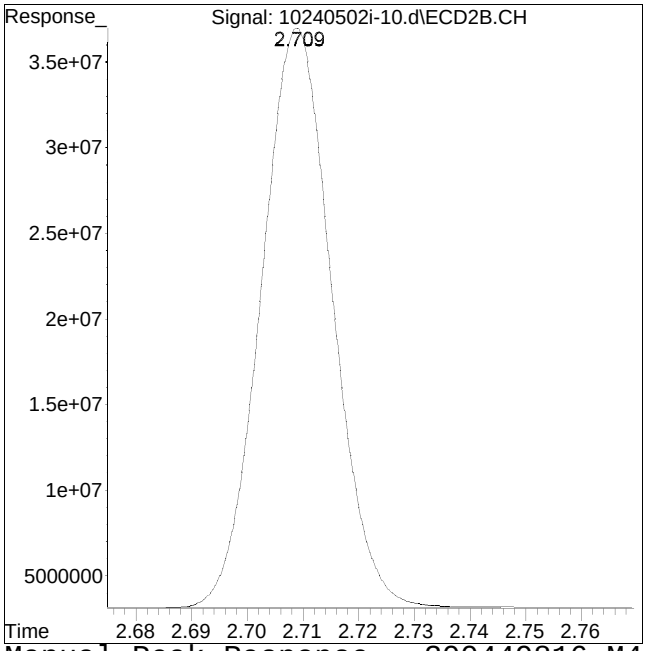
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #44: beta-BHC #2



Original Peak Response = 302168518



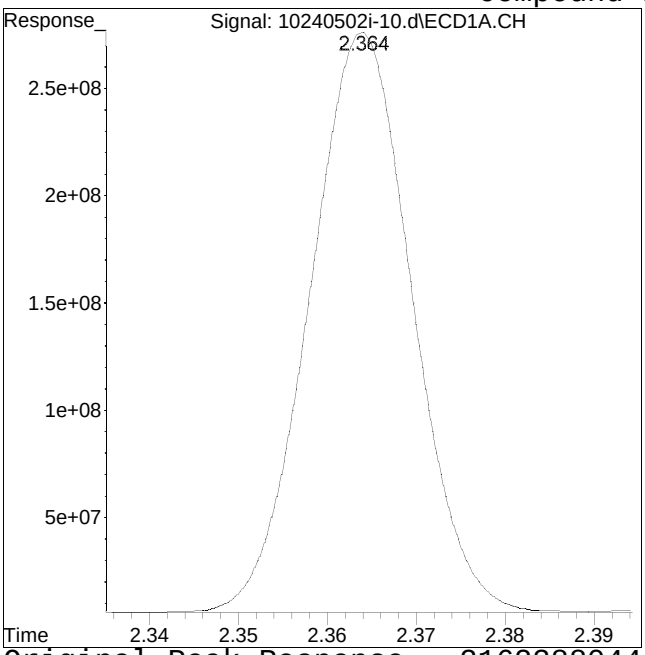
Manual Peak Response = 300449816 M4

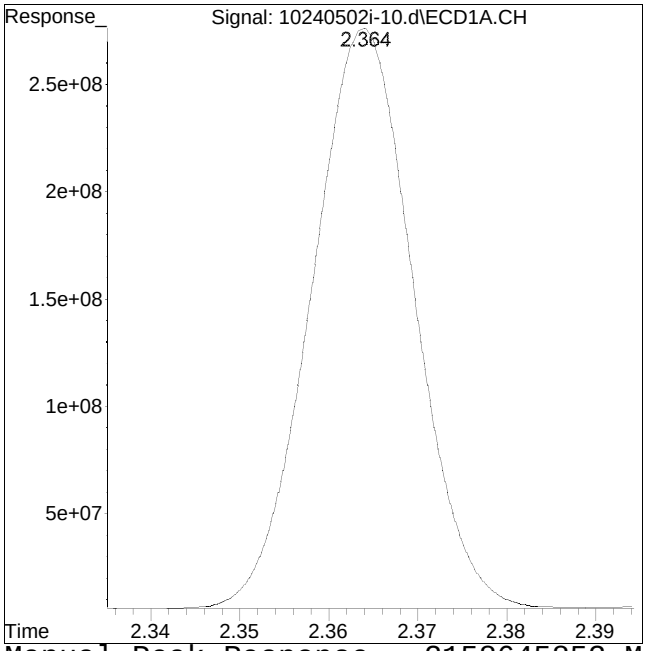
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #7: delta-BHC



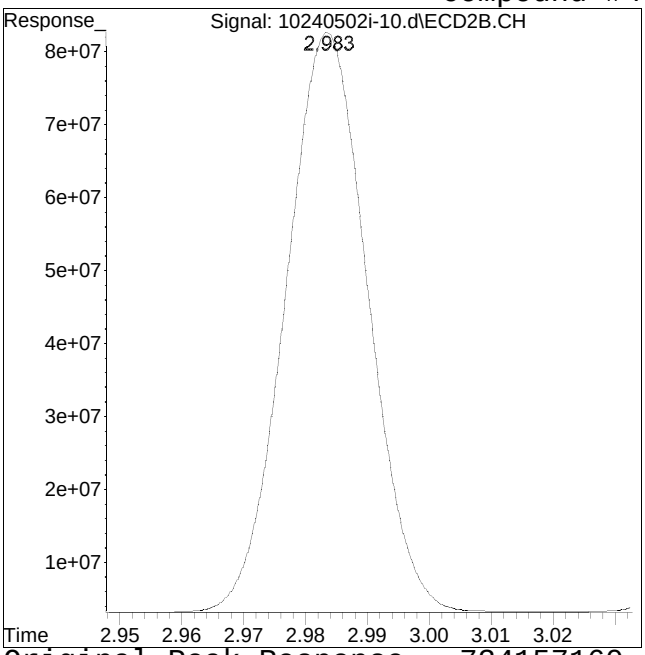


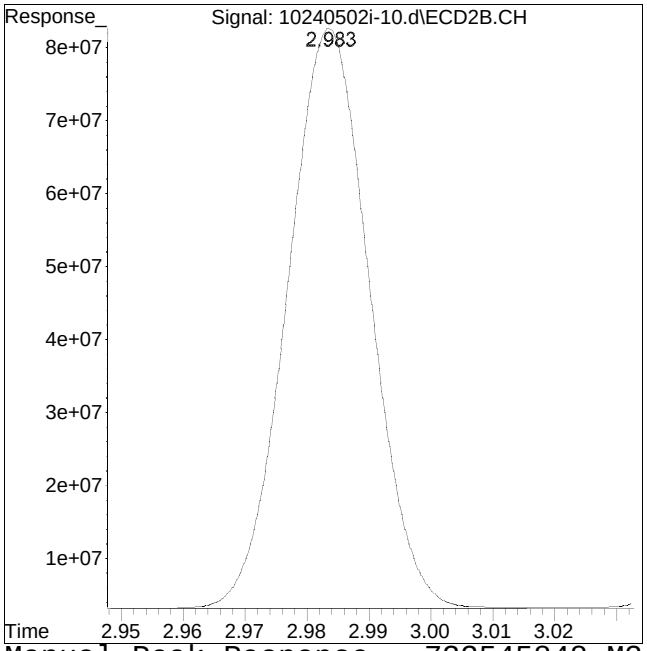
Original Peak Response = 2162388044 Manual Peak Response = 2158645853 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #45: delta-BHC #2



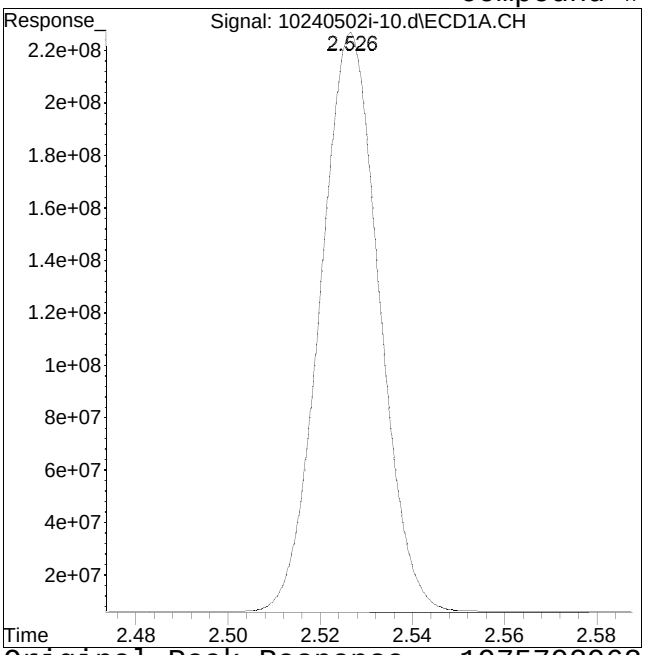


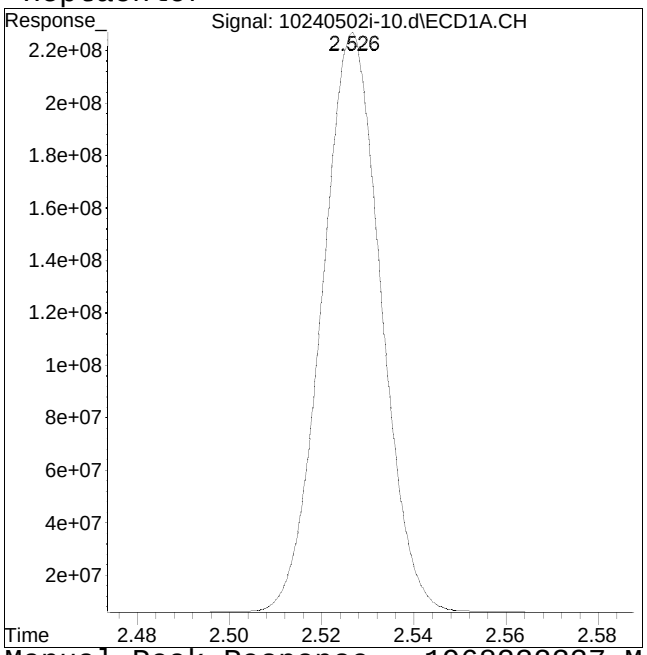
Original Peak Response = 734157160 Manual Peak Response = 733545848 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #8: Heptachlor



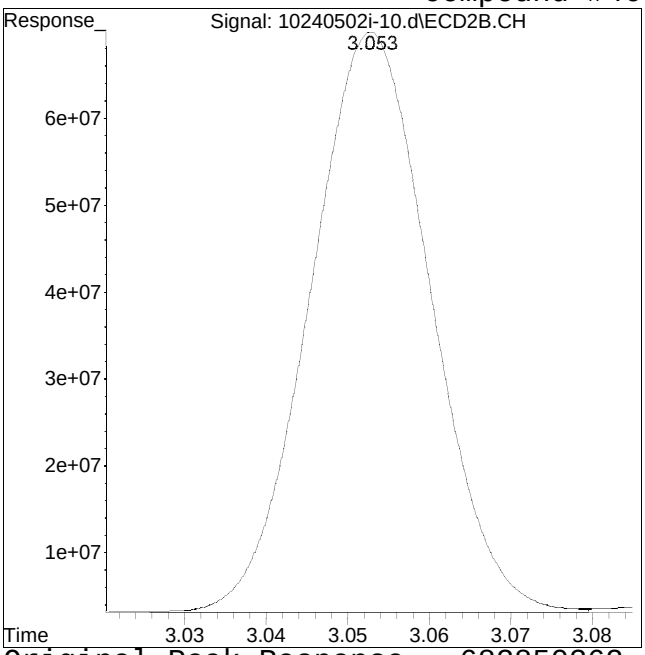


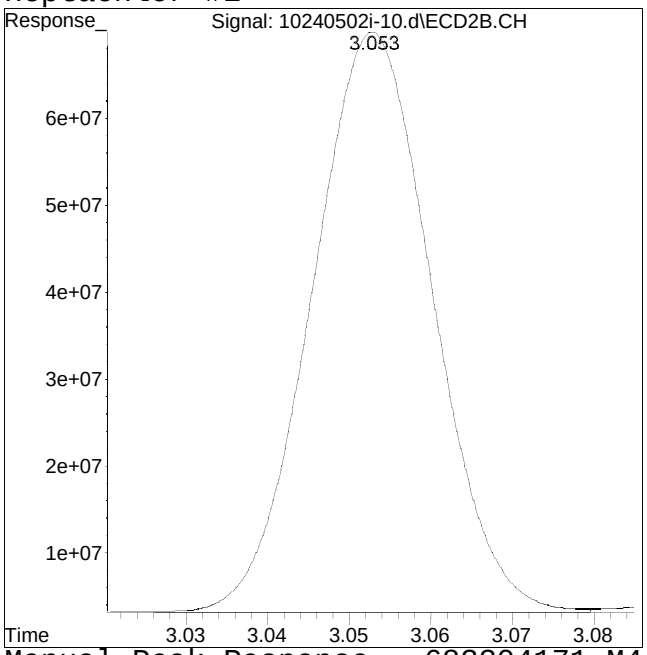
Original Peak Response = 1975792962 Manual Peak Response = 1968232337 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #46: Heptachlor #2



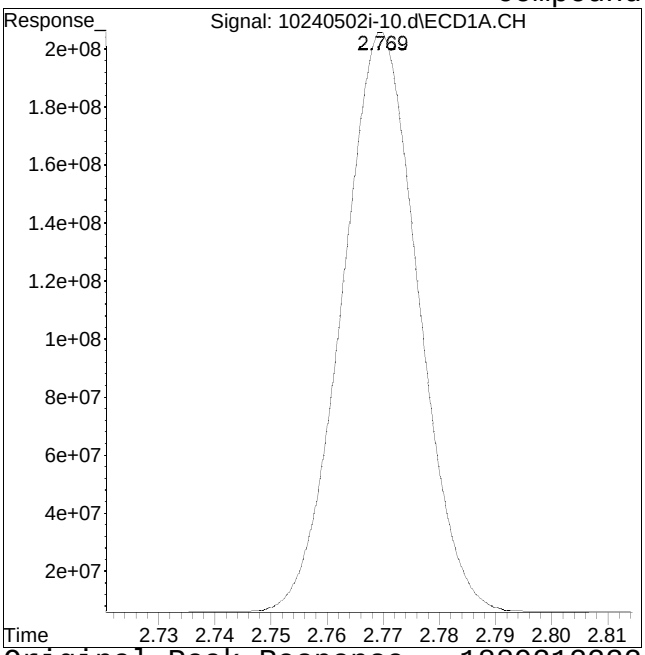


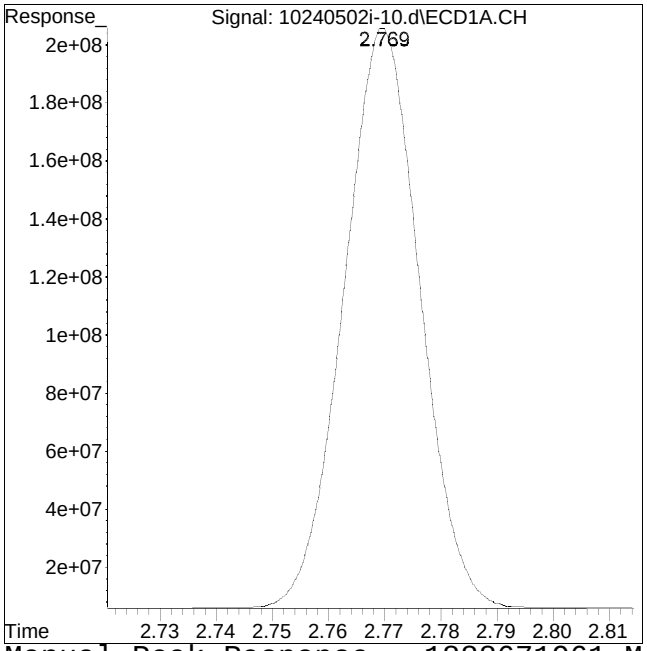
Original Peak Response = 683850362 Manual Peak Response = 683304171 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #9: Aldrin



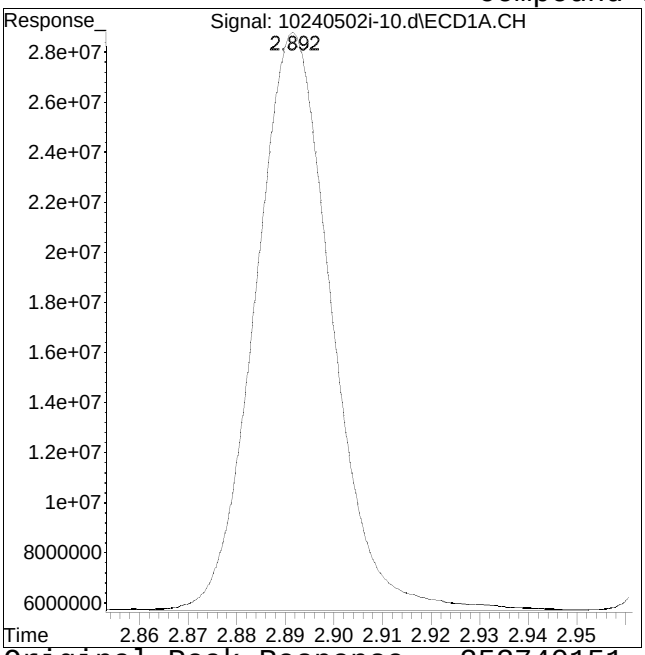


Original Peak Response = 1889212232 Manual Peak Response = 1888671961 M4
M4 = Poor automated baseline construction.

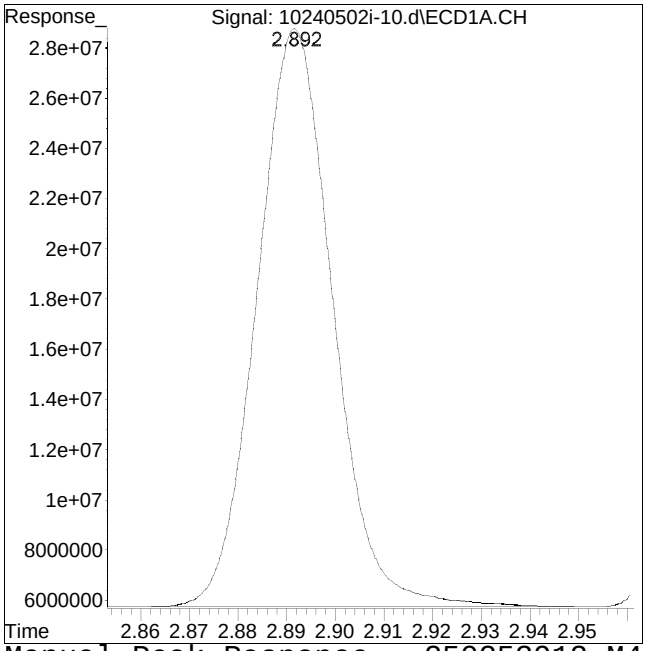
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #10: Alachlor



Original Peak Response = 253740151



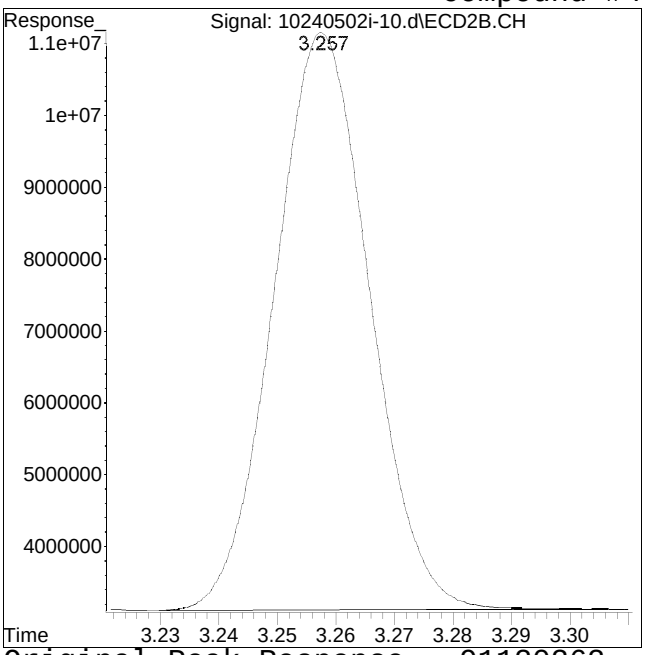
Manual Peak Response = 250253912 M4

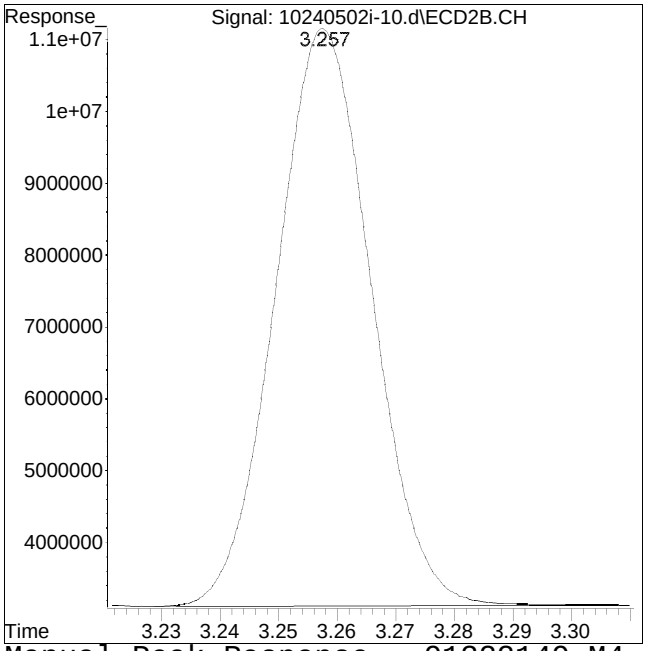
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #48: Alachlor #2





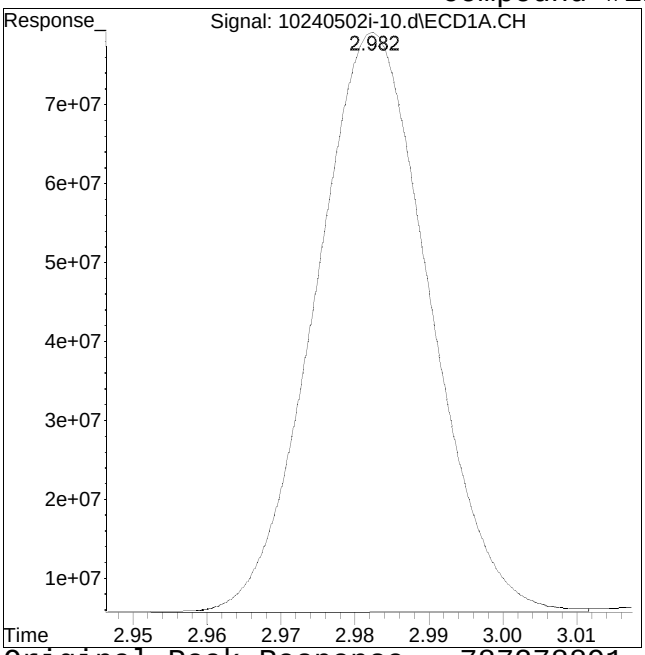
Original Peak Response = 91120262 Manual Peak Response = 91322149 M4
M4 = Poor automated baseline construction.

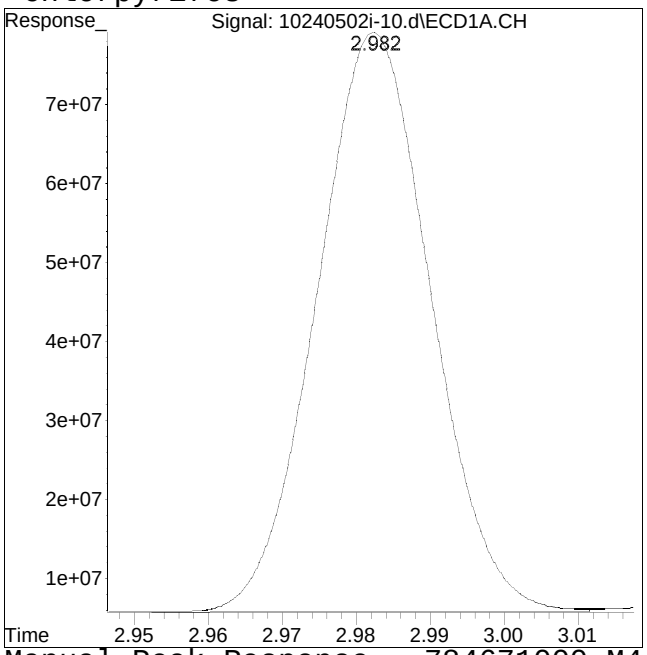
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #11: Chlorpyrifos



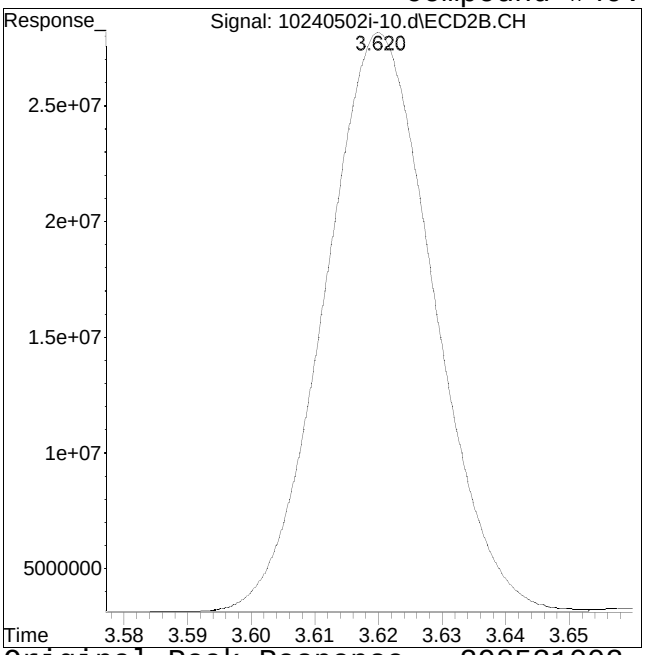


Original Peak Response = 787278891 Manual Peak Response = 784671000 M4
M4 = Poor automated baseline construction.

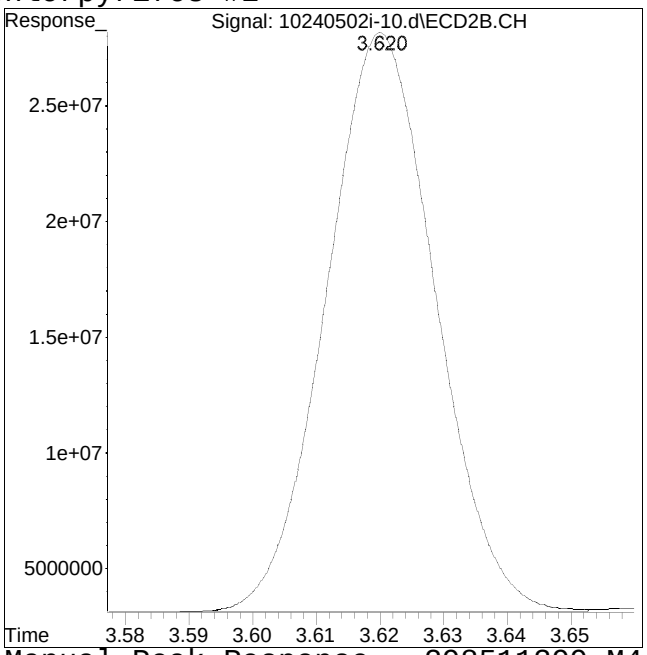
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 298531002



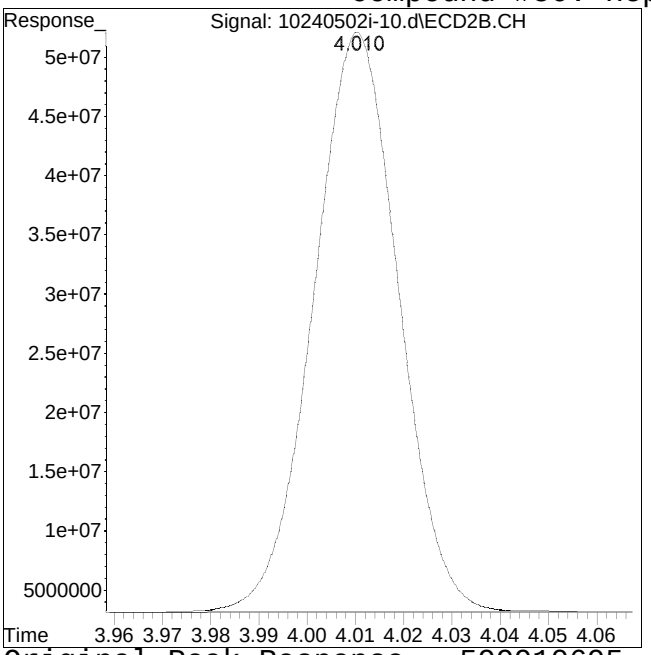
Manual Peak Response = 298511399 M4

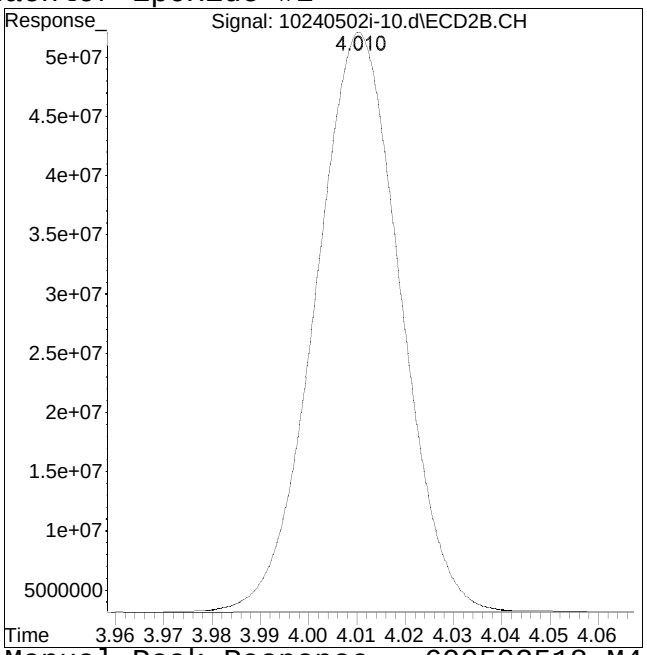
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #50: Heptachlor Epoxide #2





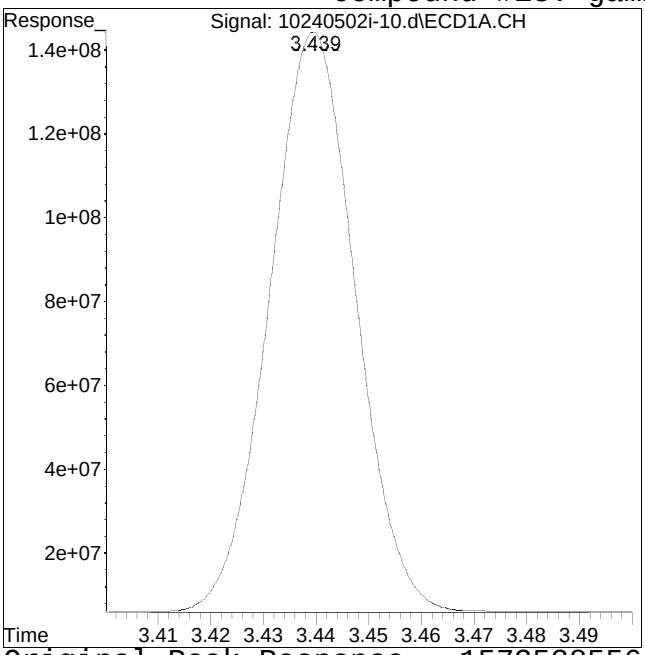
Original Peak Response = 599910695 Manual Peak Response = 600592518 M4
M4 = Poor automated baseline construction.

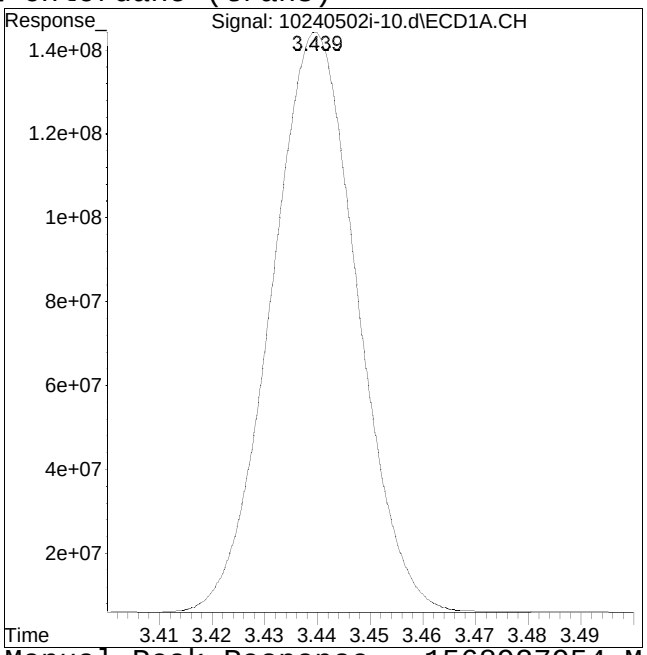
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #13: gamma-Chlordane (trans)



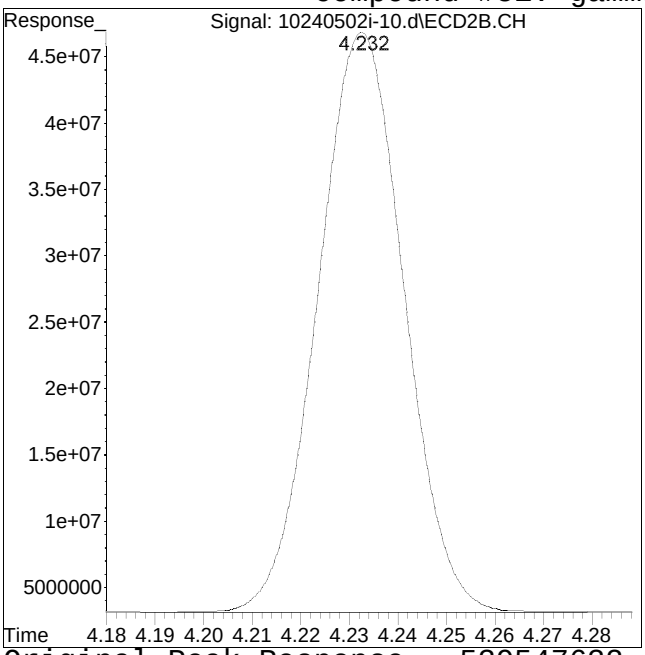


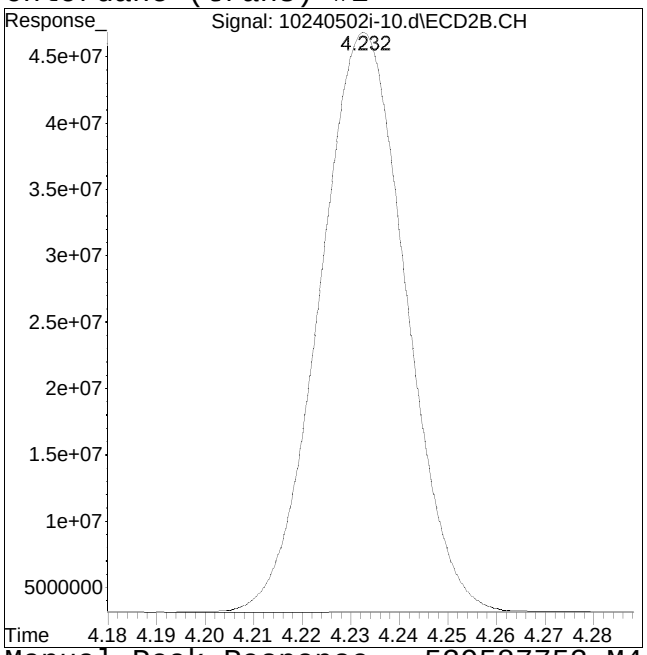
Original Peak Response = 1573538556 Manual Peak Response = 1568927954 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #51: gamma-Chlordane (trans) #2



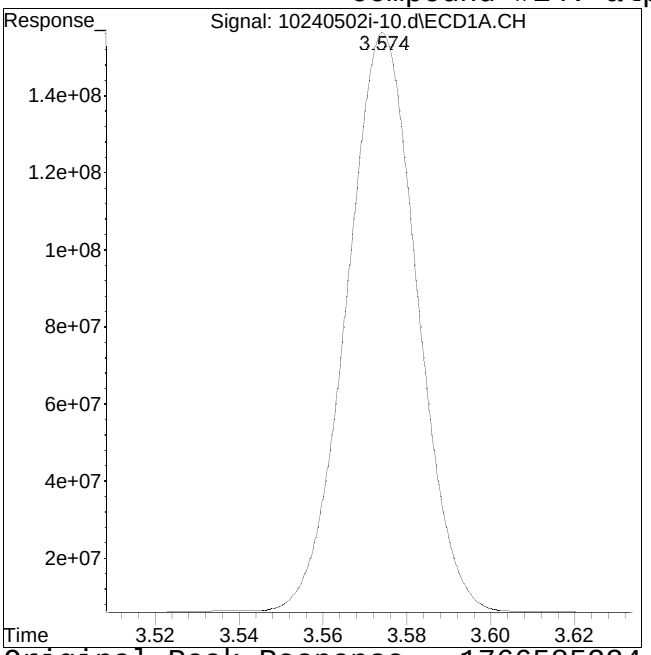


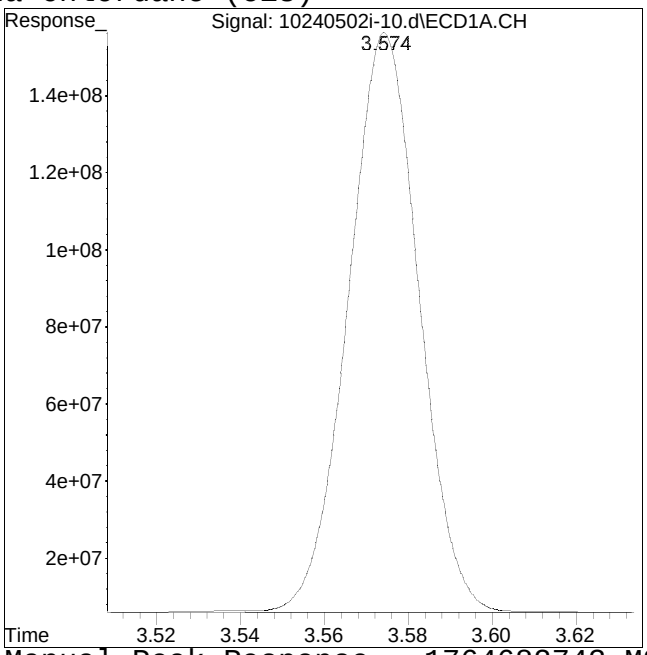
Original Peak Response = 539547632 Manual Peak Response = 539587753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #14: alpha-Chlordane (cis)



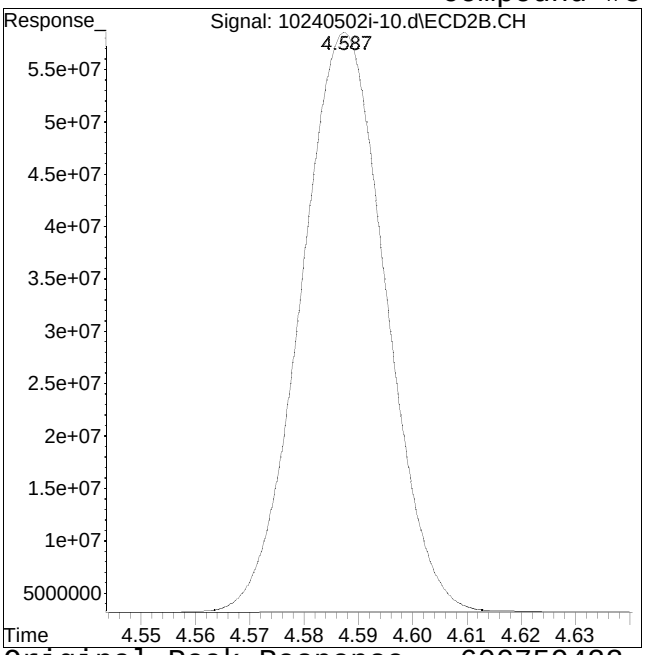


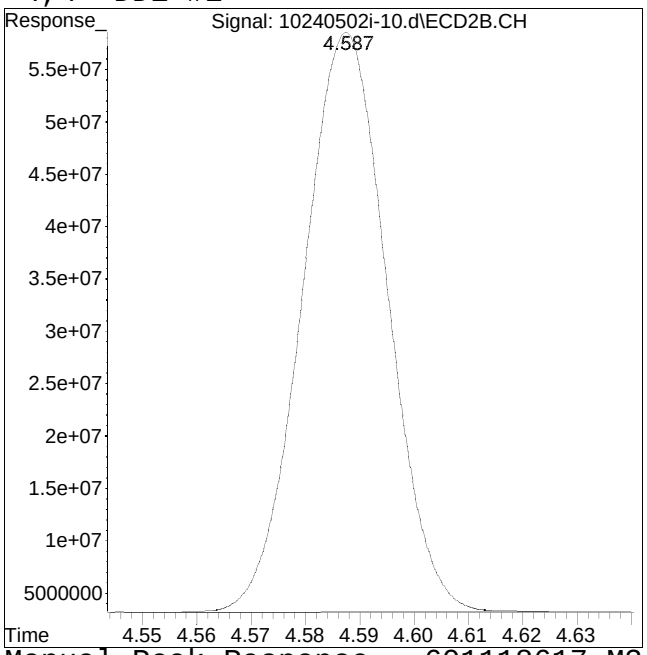
Original Peak Response = 1766585224 Manual Peak Response = 1764682743 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #53: 4,4'-DDE #2



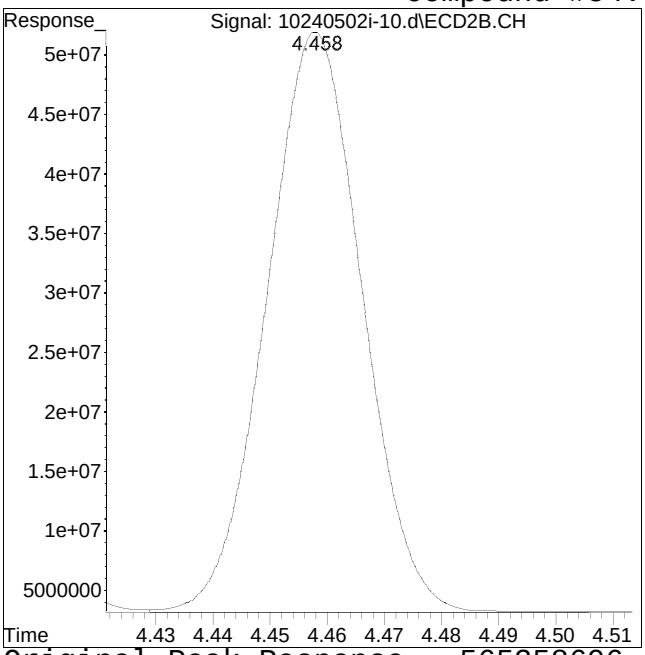


Original Peak Response = 600759422 Manual Peak Response = 601118617 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

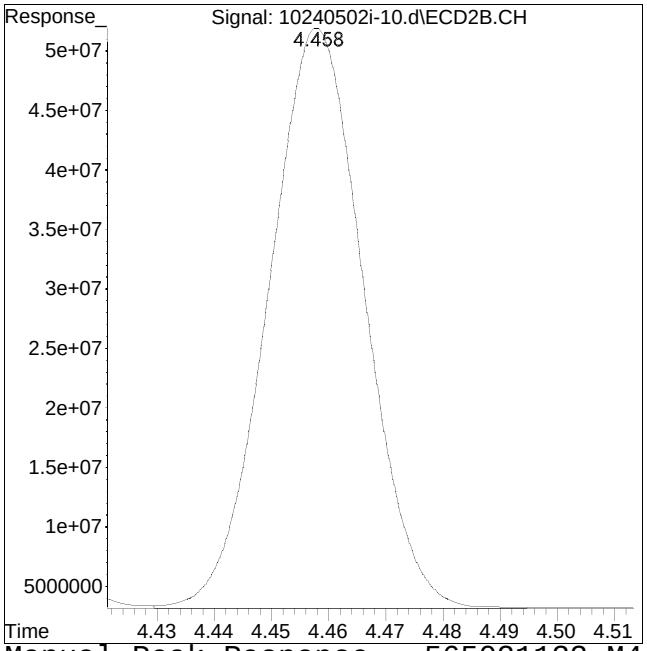
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #54: Endosulfan I #2



Original Peak Response = 565358696



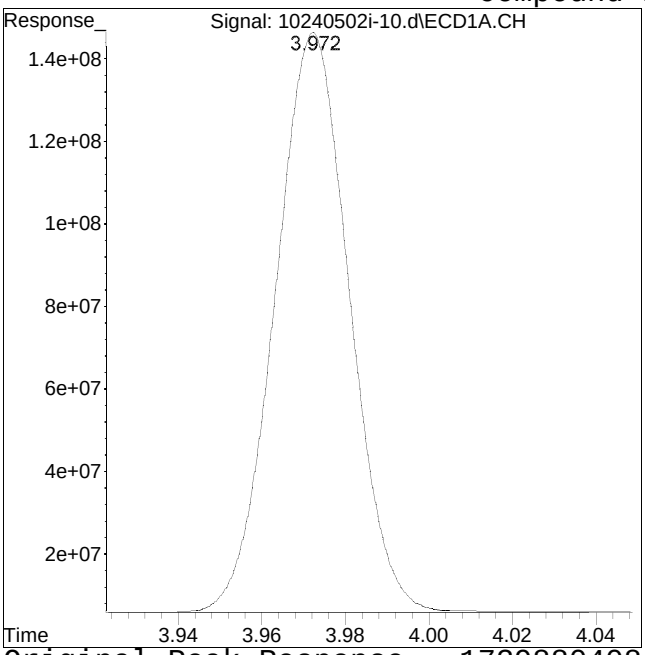
Manual Peak Response = 565021133 M4

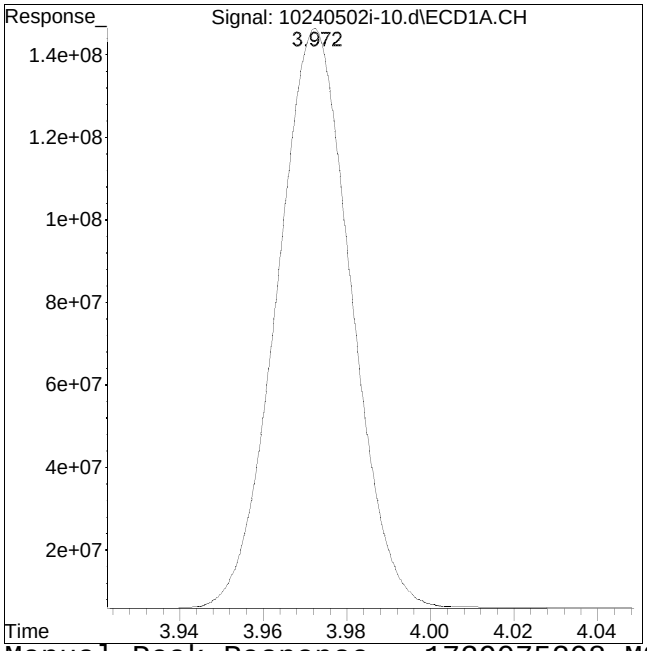
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #17: Dieldrin



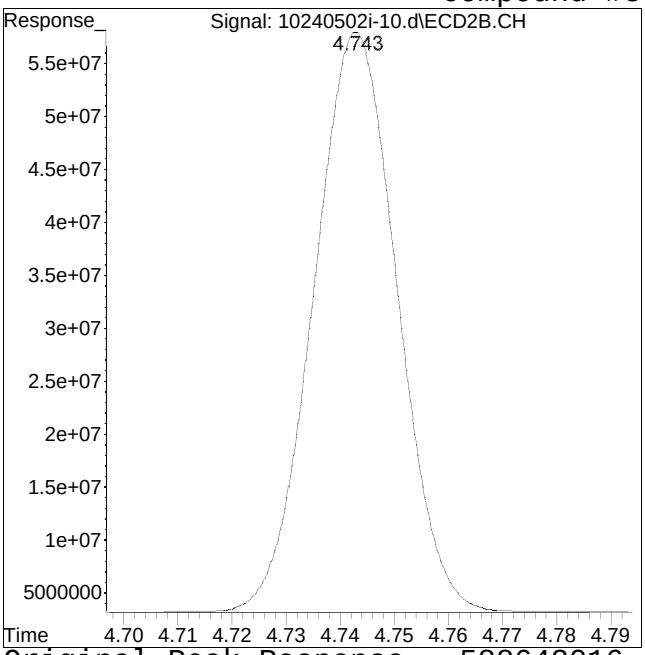


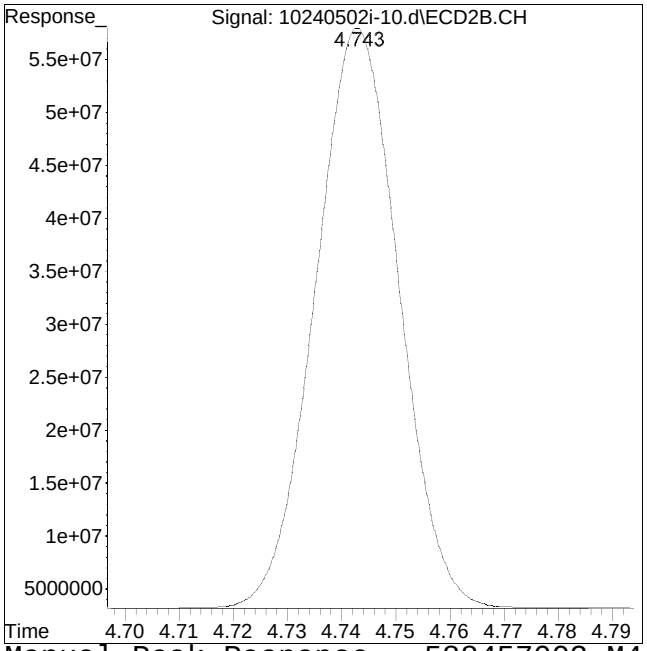
Original Peak Response = 1739880408 Manual Peak Response = 1739075208 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #55: Dieldrin #2



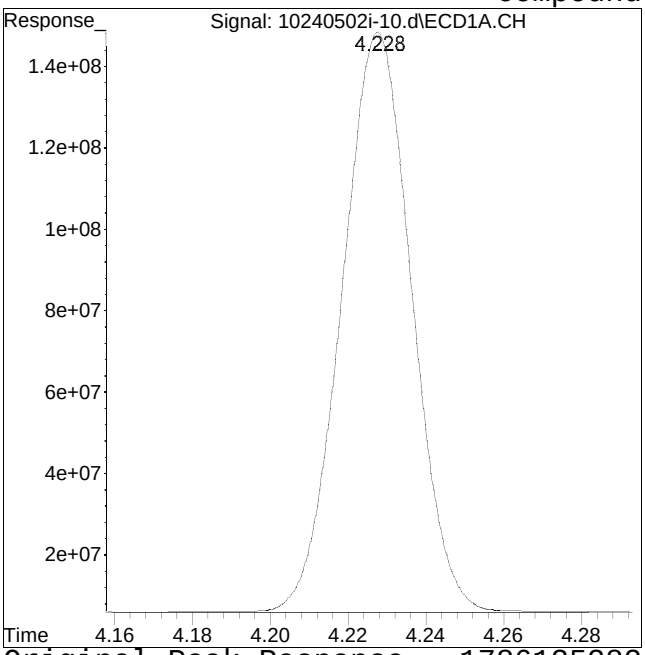


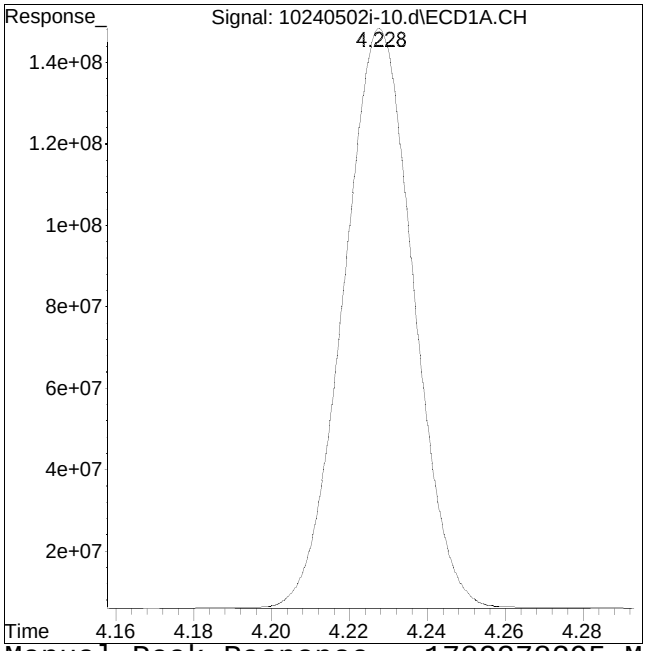
Original Peak Response = 588642016 Manual Peak Response = 588457003 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #18: Endrin



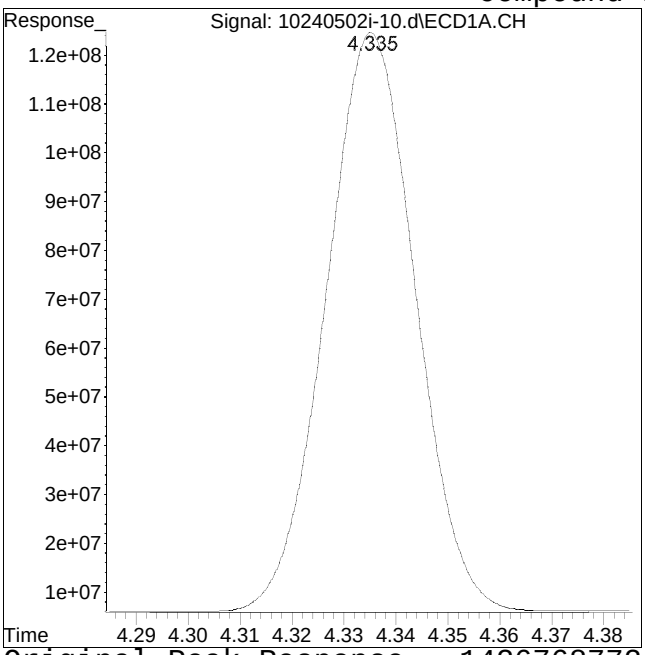


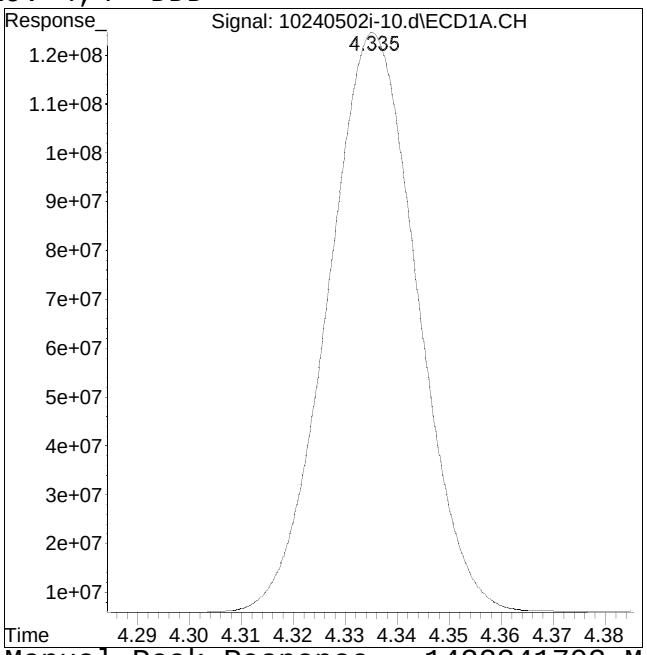
Original Peak Response = 1786125282 Manual Peak Response = 1782378295 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #19: 4,4'-DDD



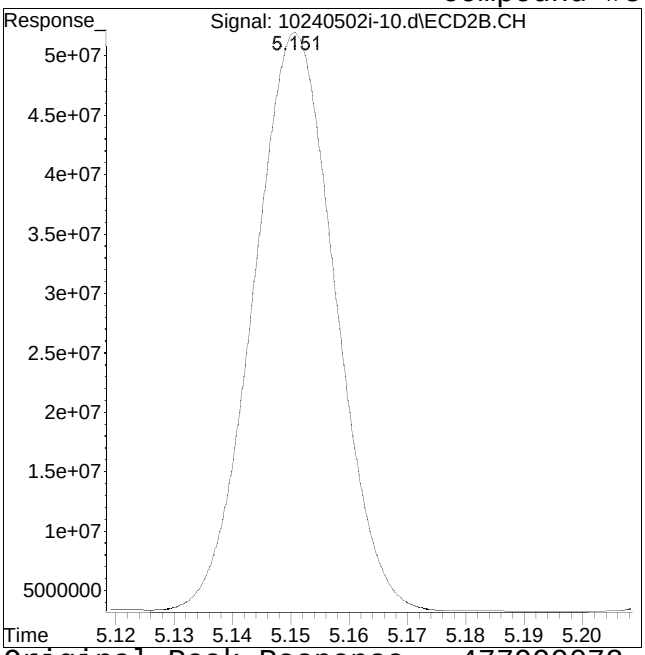


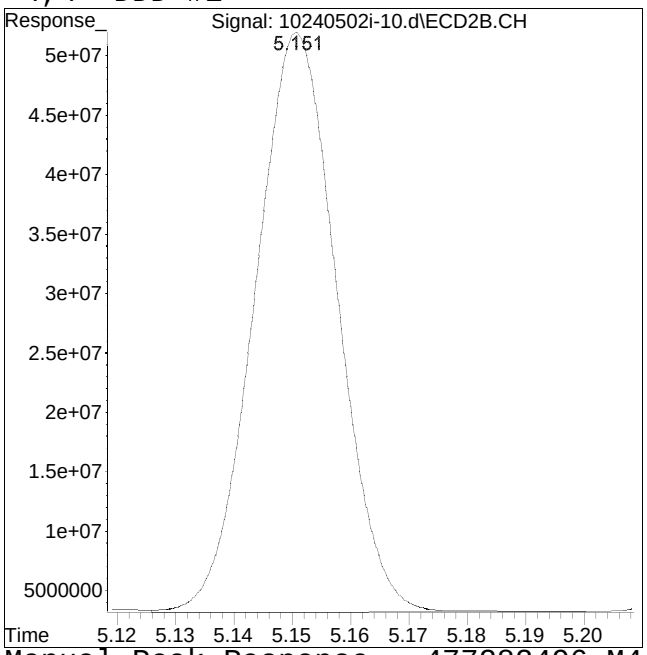
Original Peak Response = 1426768772 Manual Peak Response = 1422341703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #57: 4,4'-DDD #2



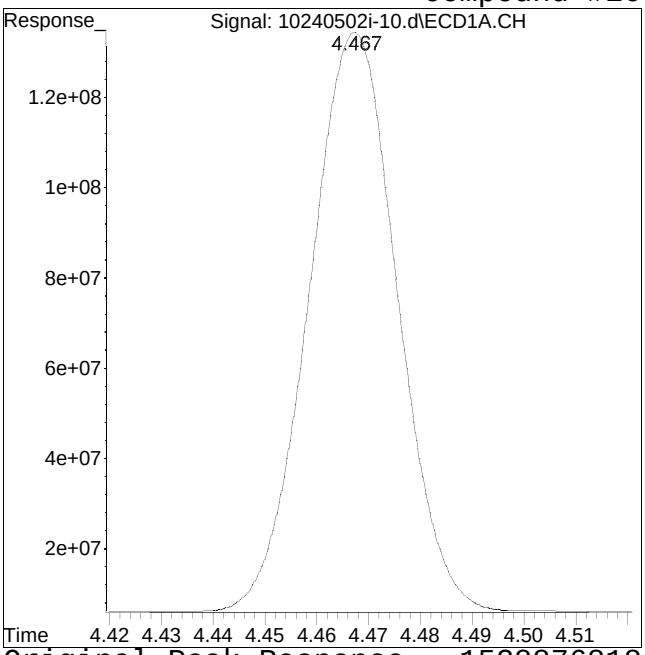


Original Peak Response = 477999072 Manual Peak Response = 477282496 M4
M4 = Poor automated baseline construction.

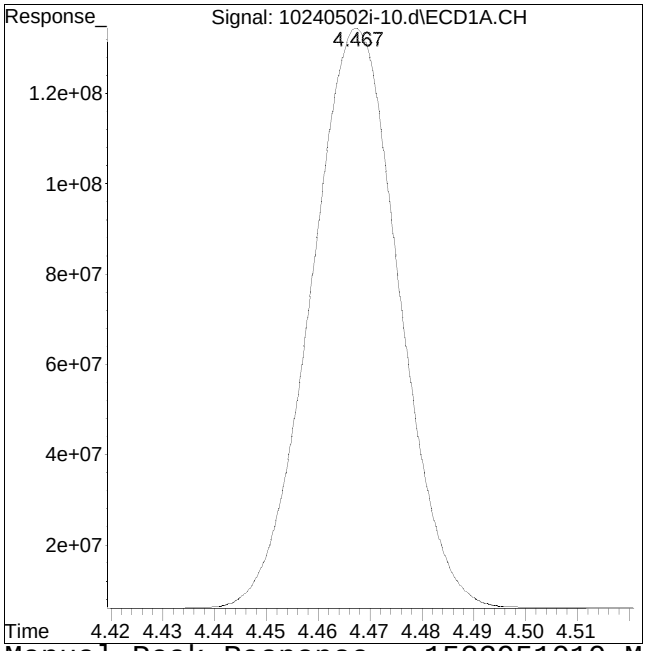
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #20: Endosulfan II



Original Peak Response = 1528876818



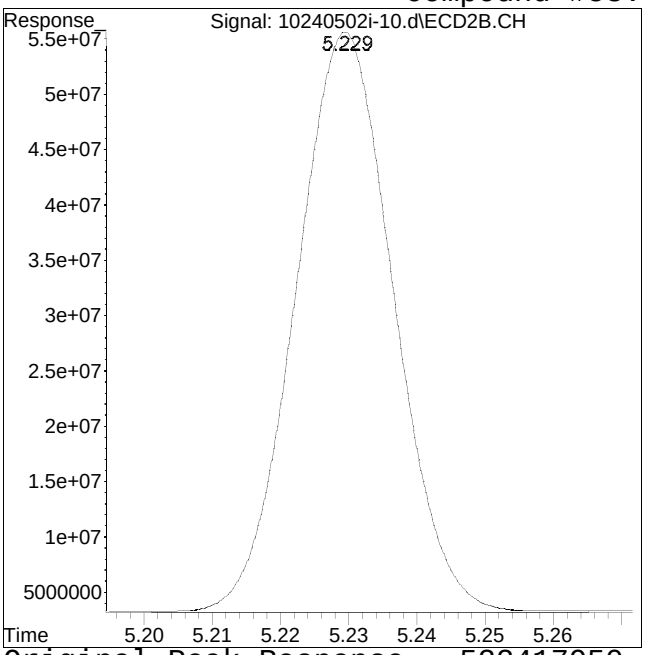
Manual Peak Response = 1522951010 M4
M4 = Poor automated baseline construction.

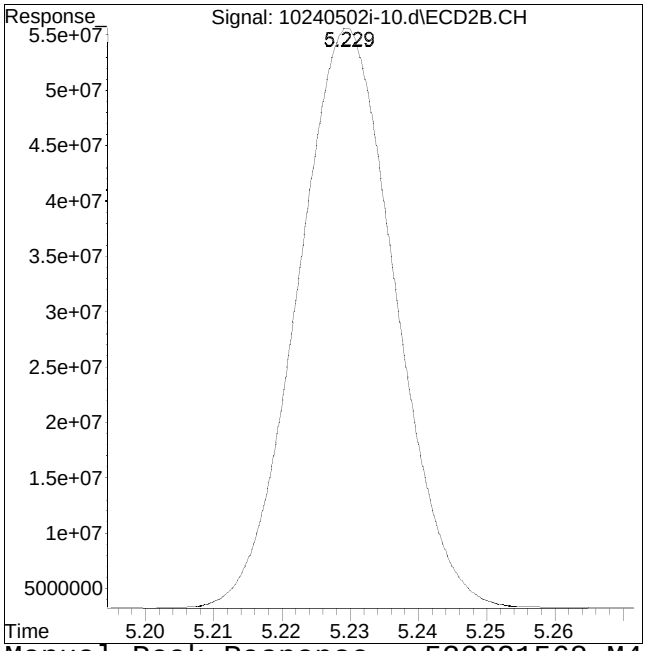
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #58: Endosulfan II #2



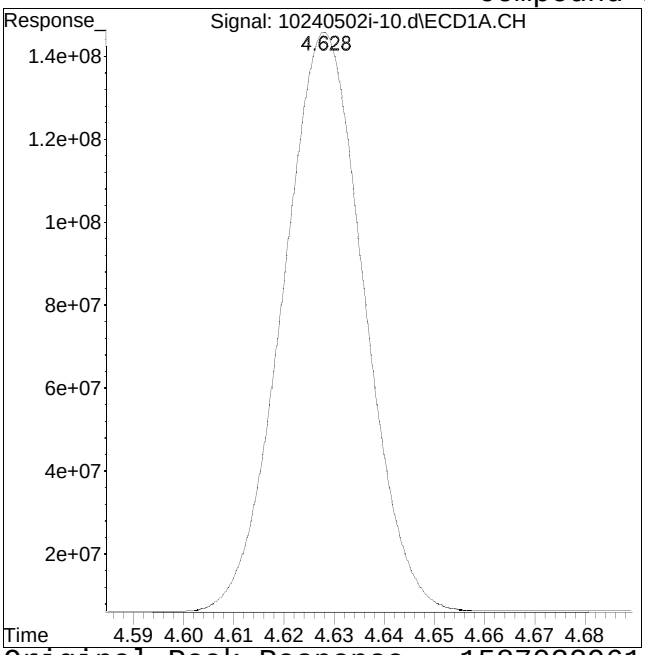


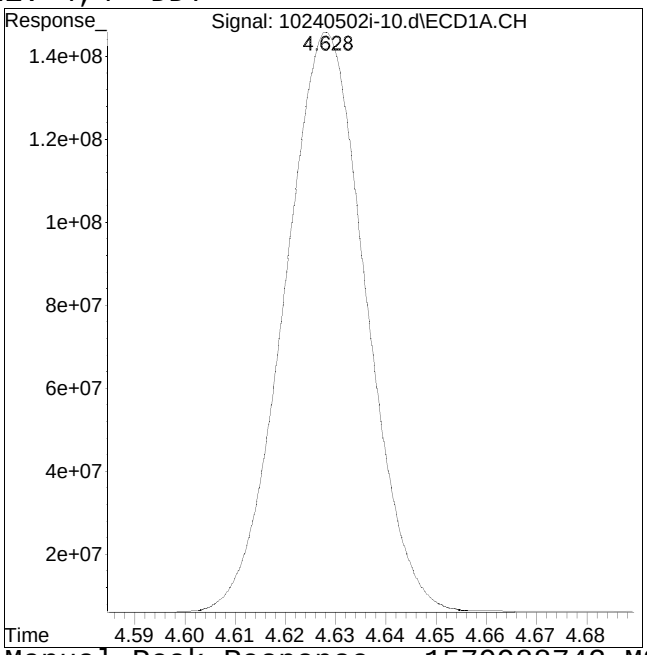
Original Peak Response = 522417950 Manual Peak Response = 520821568 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #21: 4,4'-DDT



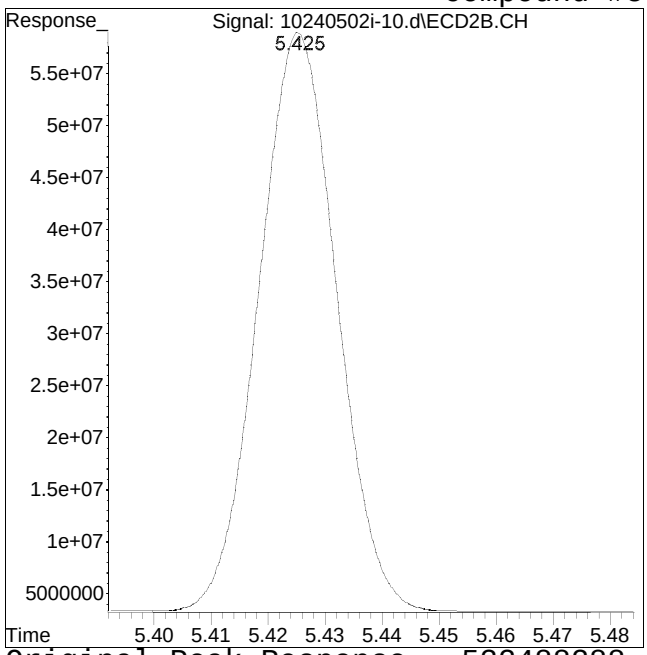


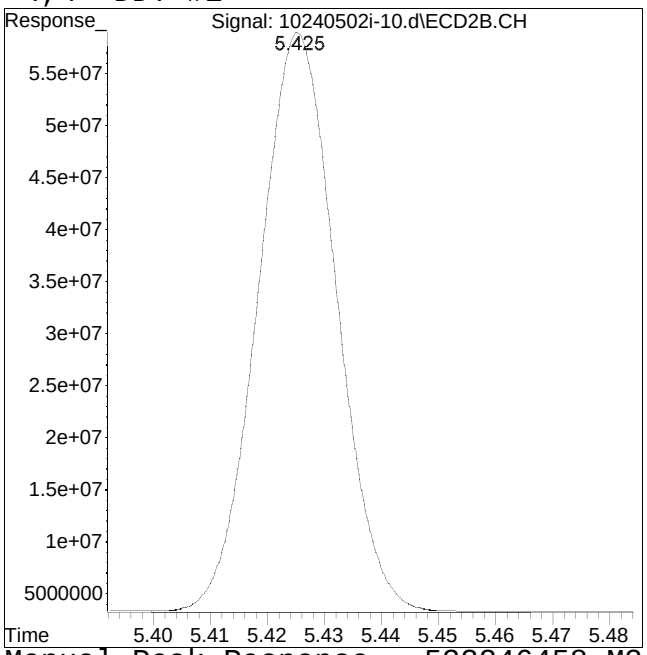
Original Peak Response = 1587032961 Manual Peak Response = 1579988742 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #59: 4,4'-DDT #2



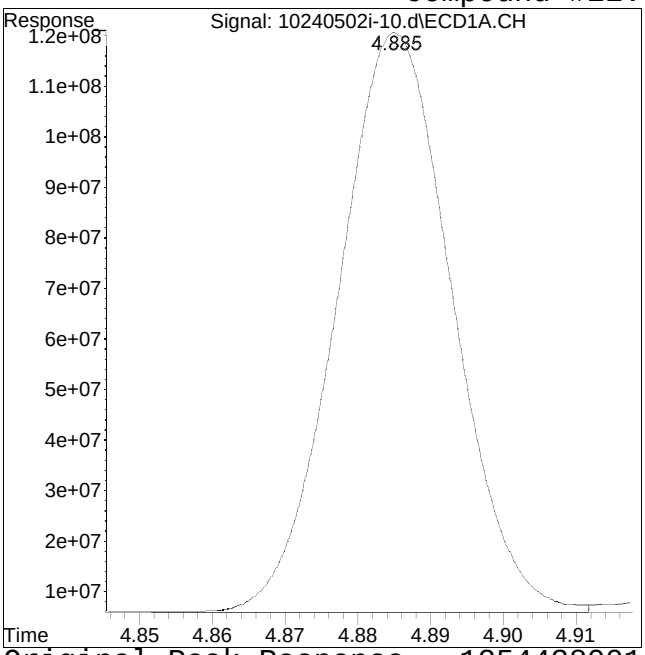


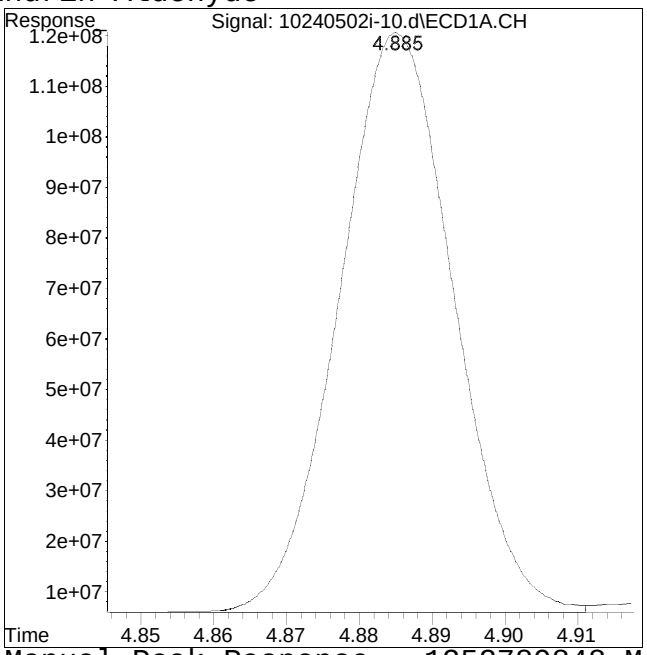
Original Peak Response = 532488288 Manual Peak Response = 532246458 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #22: Endrin Aldehyde



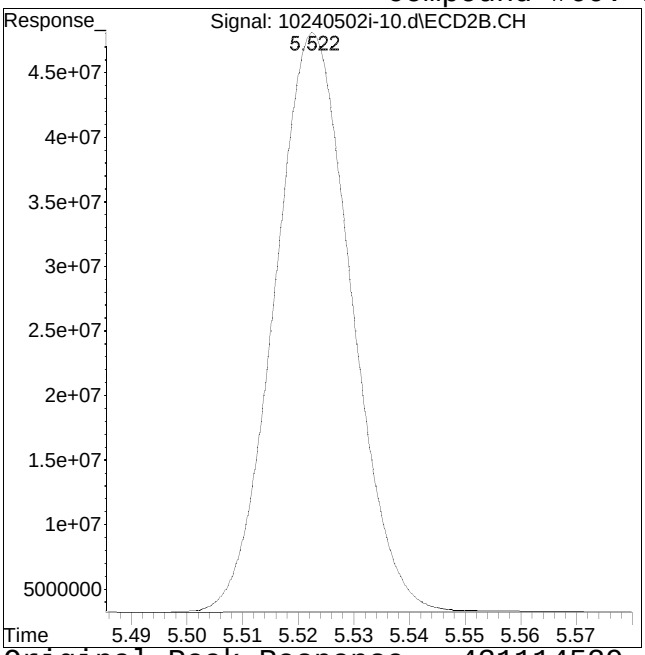


Original Peak Response = 1254438001 Manual Peak Response = 1252789848 M4
M4 = Poor automated baseline construction.

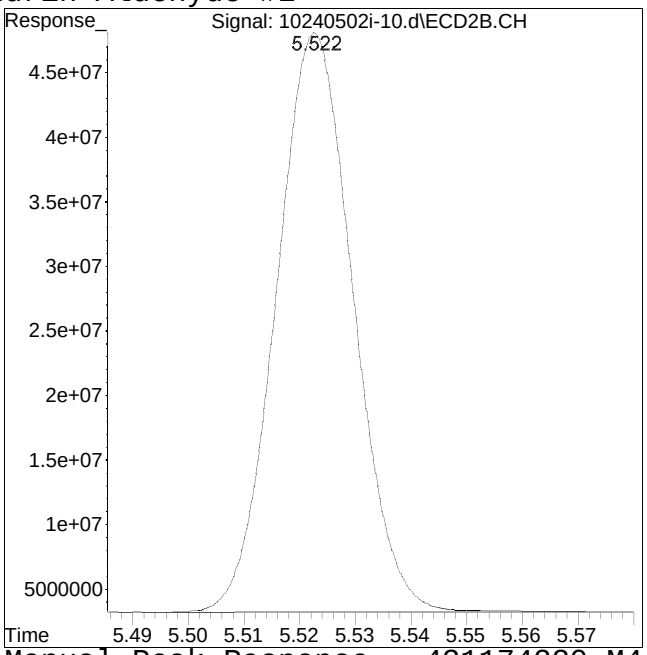
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 431114529



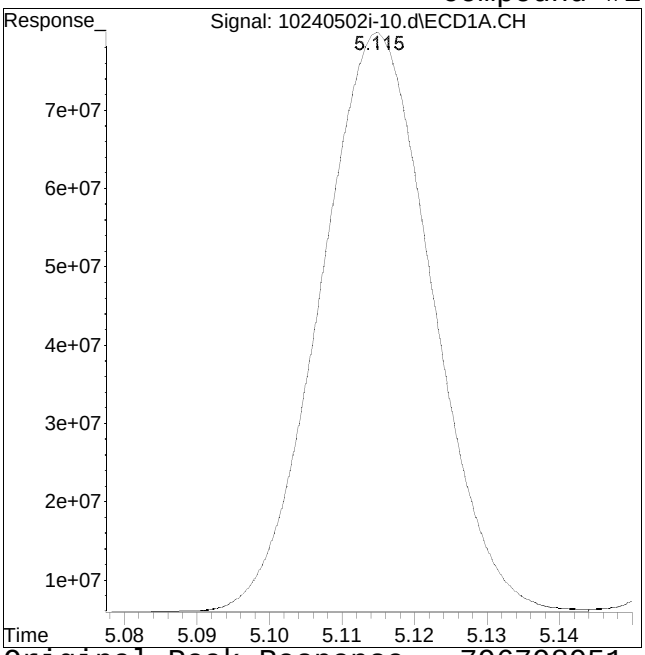
Manual Peak Response = 431174220 M4

M4 = Poor automated baseline construction.

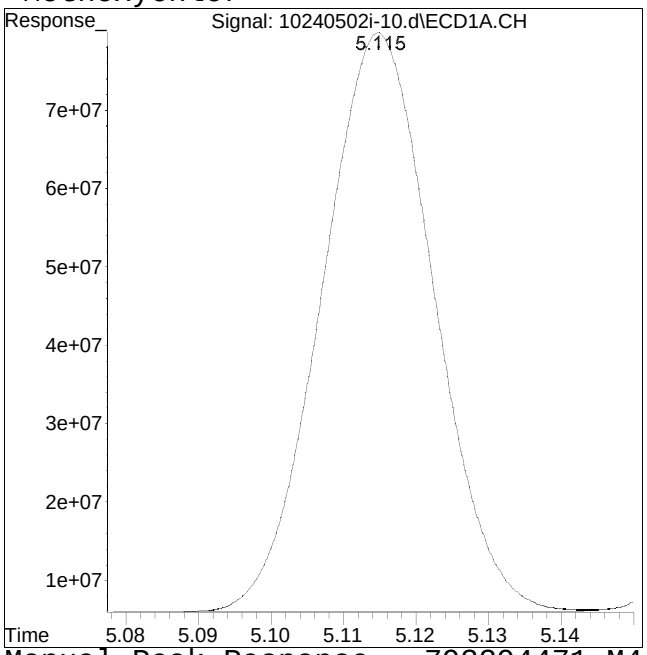
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #23: Methoxychlor



Original Peak Response = 796798951



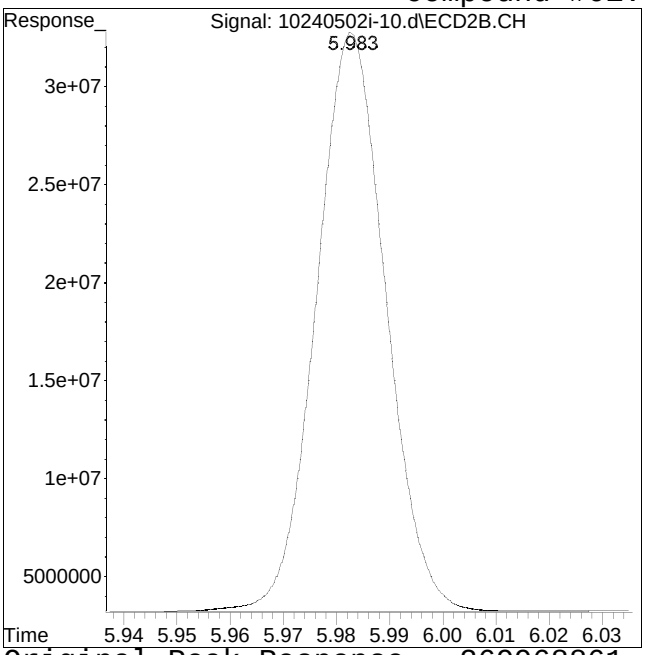
Manual Peak Response = 793394471 M4

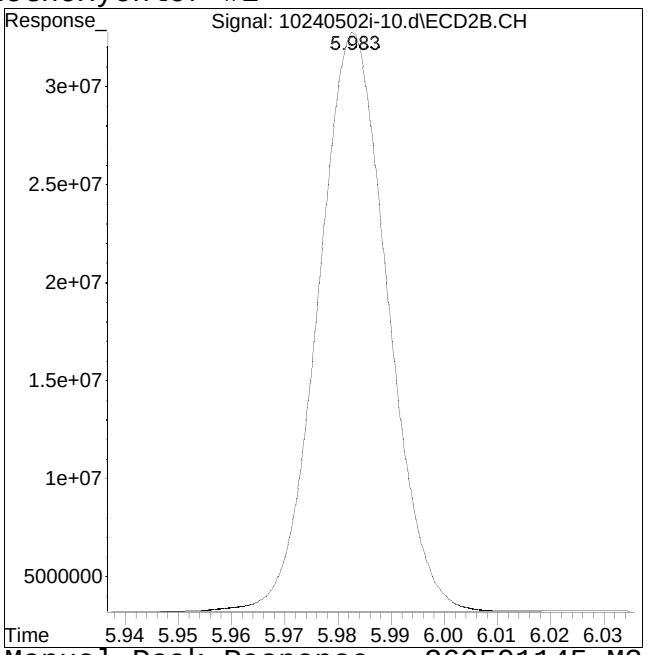
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #61: Methoxychlor #2



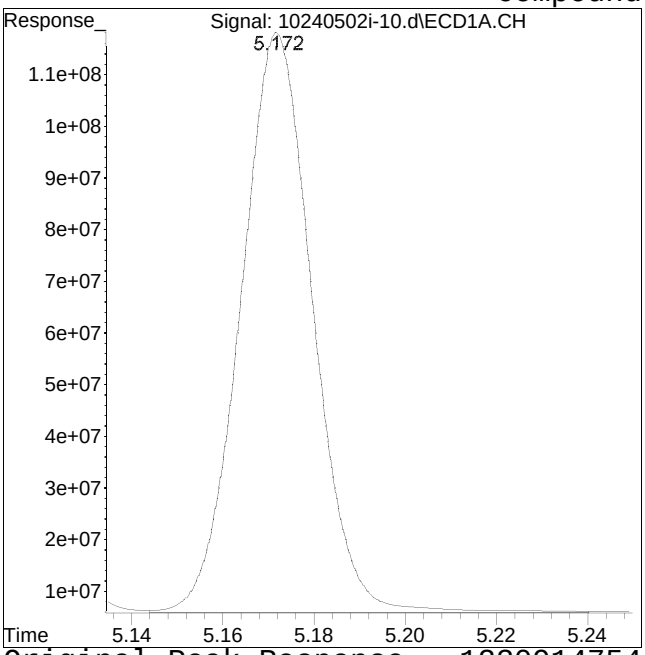


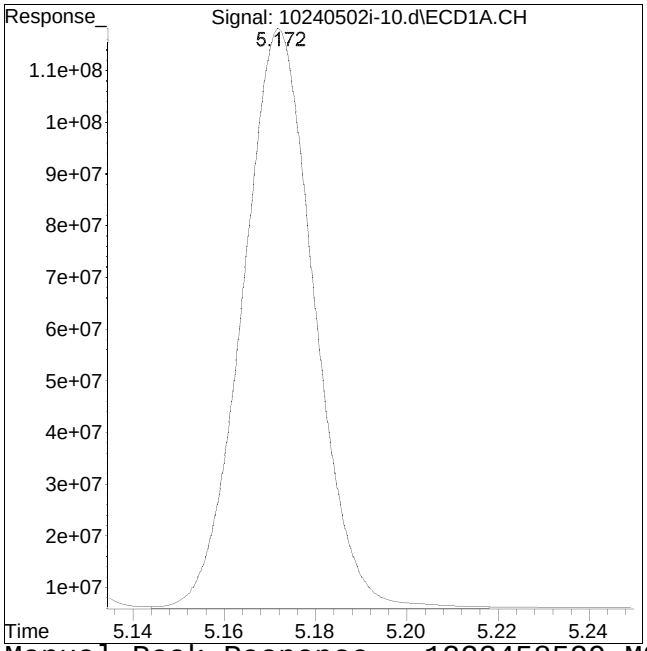
Original Peak Response = 269968861 Manual Peak Response = 269501145 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #24: Mirex



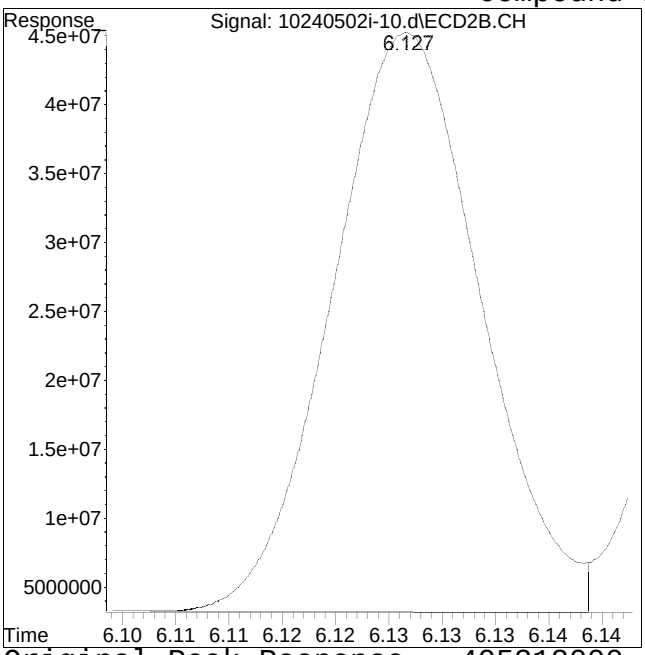


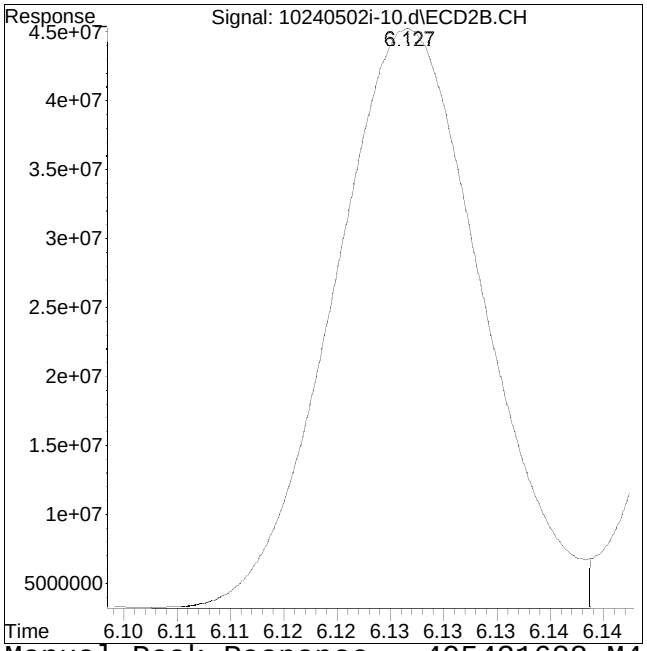
Original Peak Response = 1230914754 Manual Peak Response = 1223458529 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #62: Mirex #2





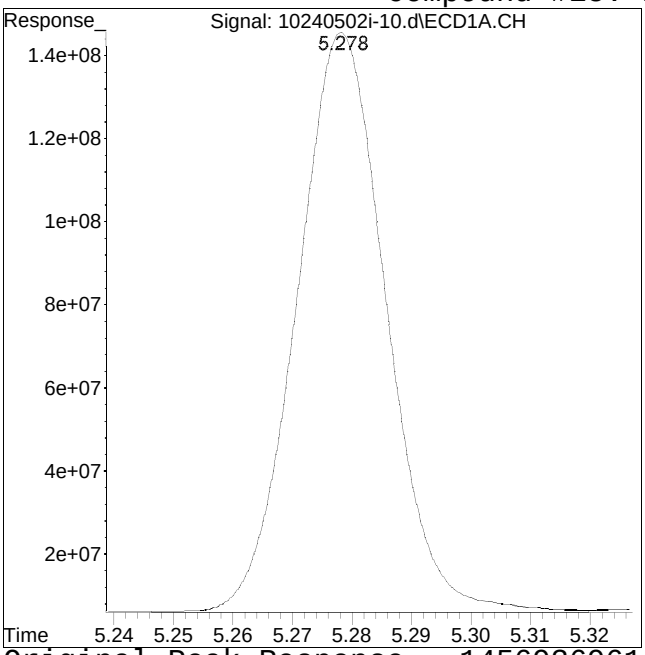
Original Peak Response = 405312000 Manual Peak Response = 405431688 M4
M4 = Poor automated baseline construction.

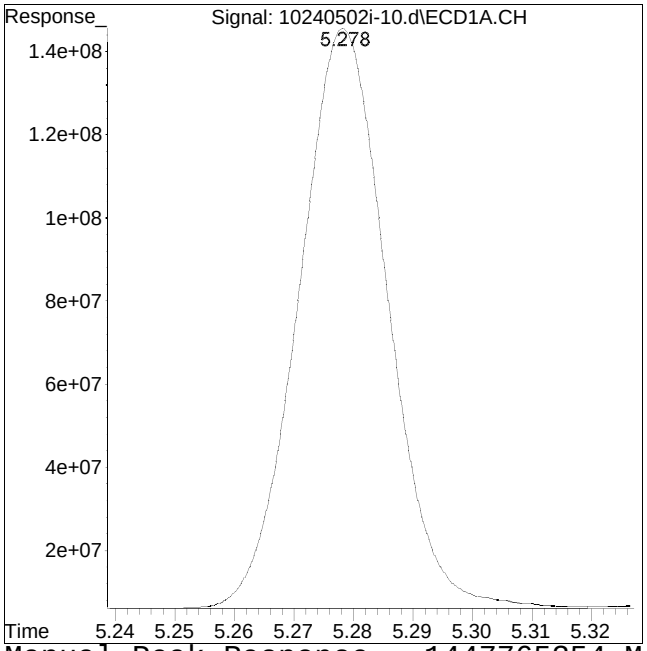
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #25: Endosulfan Sulfate



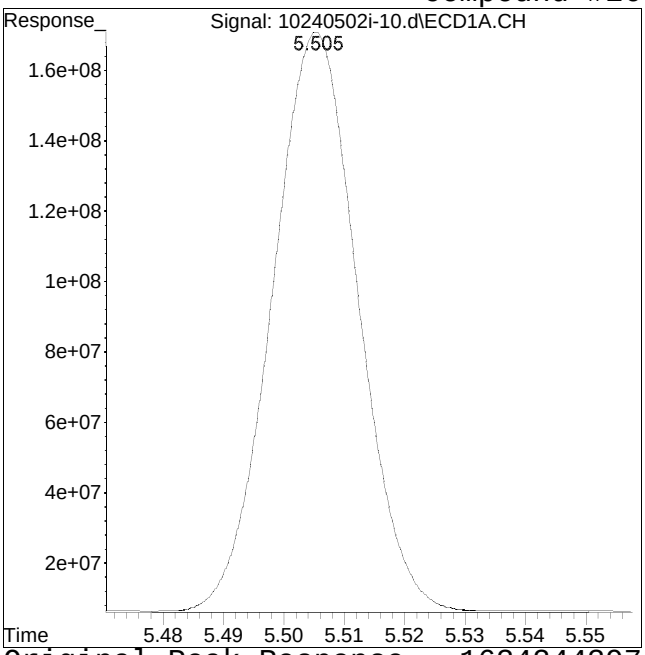


Original Peak Response = 1456936961 Manual Peak Response = 1447765354 M4
M4 = Poor automated baseline construction.

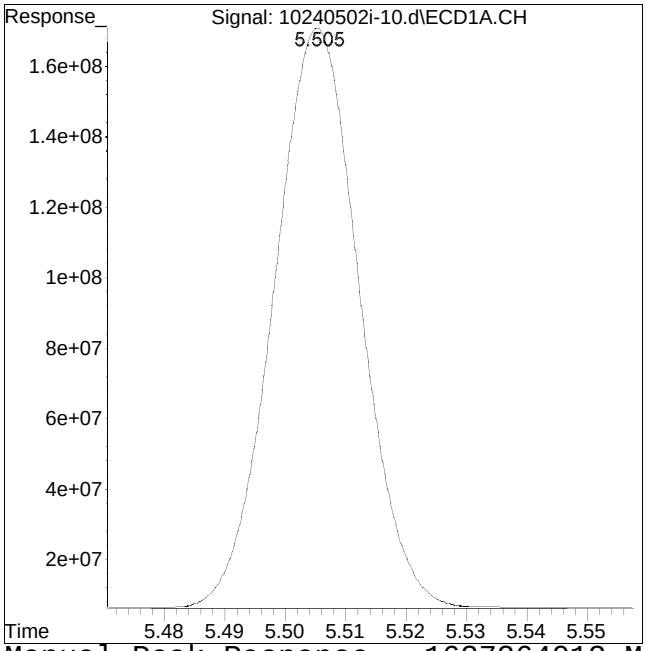
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #26: Endrin Ketone



Original Peak Response = 1634244397

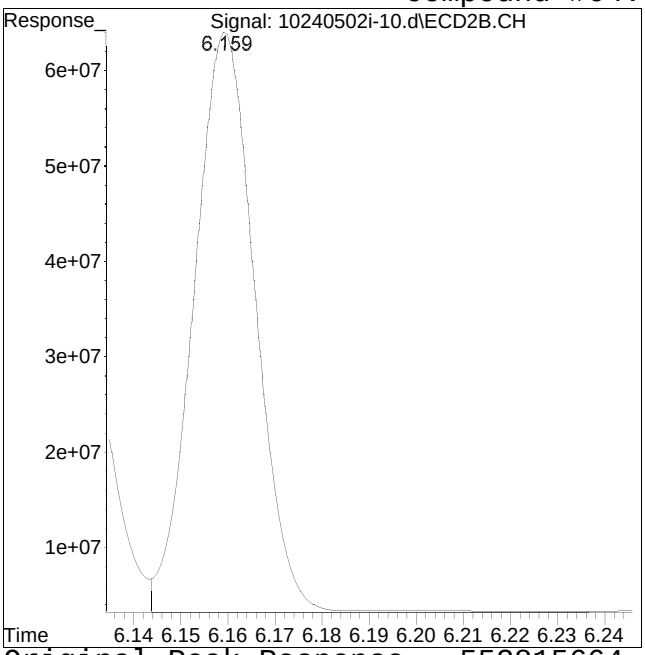


Manual Peak Response = 1627264013 M4
M4 = Poor automated baseline construction.

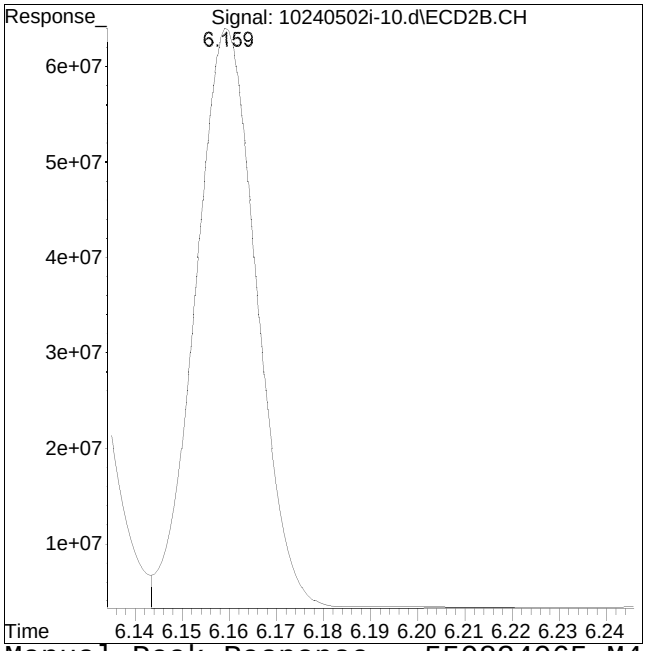
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 552815664



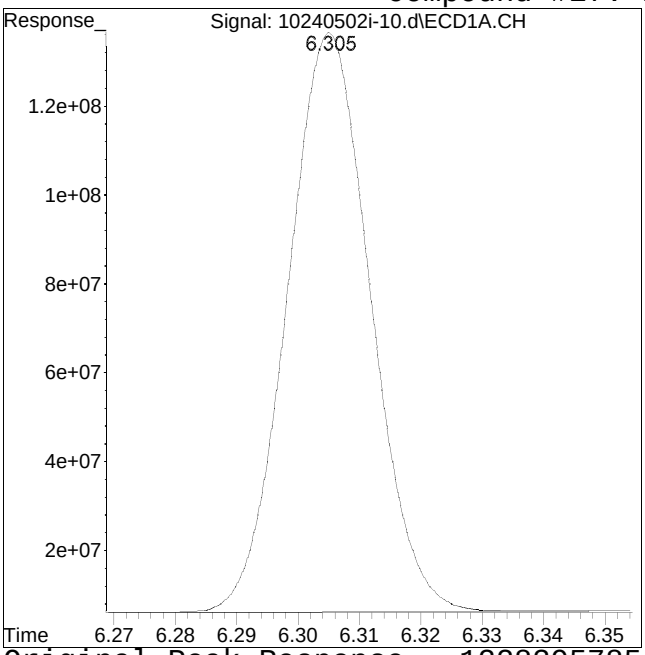
Manual Peak Response = 550834065 M4

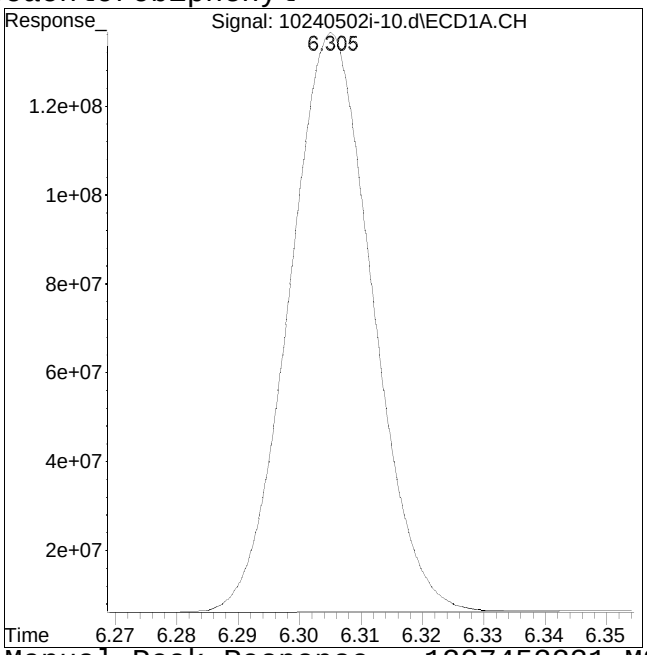
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 1228395785 Manual Peak Response = 1227453231 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.429	402.4E6	145.6E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.663	1.921	3176.7E6	1057.2E6	198.983	194.296
	Spiked Amount 50.000	Range 30 - 150		Recovery =		397.97%#	388.59%#
27) s	Decachlorobi	6.306	7.012	2533.7E6	808.3E6	192.804M3	187.051M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		385.61%#	374.10%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	3360.4E6	1159.0E6	198.692M4	194.586M4
4) t	alpha-BHC	1.977	2.350	5028.0E6	1710.4E6	206.541M4	206.312M4
5) t	gamma-BHC (l	2.180	2.644	4536.8E6	1547.6E6	204.958M3	205.088M4
6) t	beta-BHC	2.235	2.709	1788.9E6	632.4E6	197.455M4	197.258M4
7) t	delta-BHC	2.364	2.984	4663.1E6	1602.9E6	207.527M4	208.881M4
8) t	Heptachlor	2.527	3.053	4066.0E6	1436.7E6	195.593M4	198.683M4
9) t	Aldrin	2.770	3.381	3965.7E6	1373.4E6	199.656M4	203.819M4
10) t	Alachlor	2.892	3.258	474.5E6	179.5E6	171.339M4	178.538M4
11) t	Chlorpyrifos	2.983	3.621	1524.9E6	599.7E6	177.065M4	184.253
12) t	Heptachlor E	3.317	4.011	3544.5E6	1258.1E6	194.199M4	196.924M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.440	4.233	3341.5E6	1156.6E6	202.022M4	202.974M4
14)	t	alpha-Chlord	3.575	4.399	3727.5E6	1281.9E6	200.175M4	200.222
15)	t	4,4'-DDE	3.671	4.588	3780.6E6	1292.4E6	201.836	204.981M3
16)	t	Endosulfan I	3.712	4.459	3366.4E6	1181.1E6	193.717M3	196.695
17)	t	Dieldrin	3.973	4.743	3645.8E6	1251.8E6	198.638	201.985M4
18)	t	Endrin	4.228	5.036	3699.9E6	1273.3E6	196.334M4	199.218M4
19)	t	4,4'-DDD	4.336	5.151	3018.2E6	1025.6E6	201.443M4	205.310M3
20)	t	Endosulfan I	4.467	5.230	3099.0E6	1065.5E6	190.824M4	191.850M4
21)	t	4,4'-DDT	4.628	5.426	3322.6E6	1134.1E6	201.249M4	202.158M4
22)	t	Endrin Aldeh	4.885	5.523	2603.6E6	908.3E6	199.924M4	202.453M4
23)	t	Methoxychlor	5.115	5.983	1575.2E6	551.2E6	183.263M4	189.837M4
24)	t	Mirex	5.172	6.127	2533.9E6	828.1E6	192.785M3	188.537M4
25)	t	Endosulfan S	5.279	5.750	2985.7E6	1037.1E6	193.469M4	197.195M4
26)	t	Endrin Keton	5.506	6.160	3321.6E6	1133.3E6	191.723M3	192.857M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

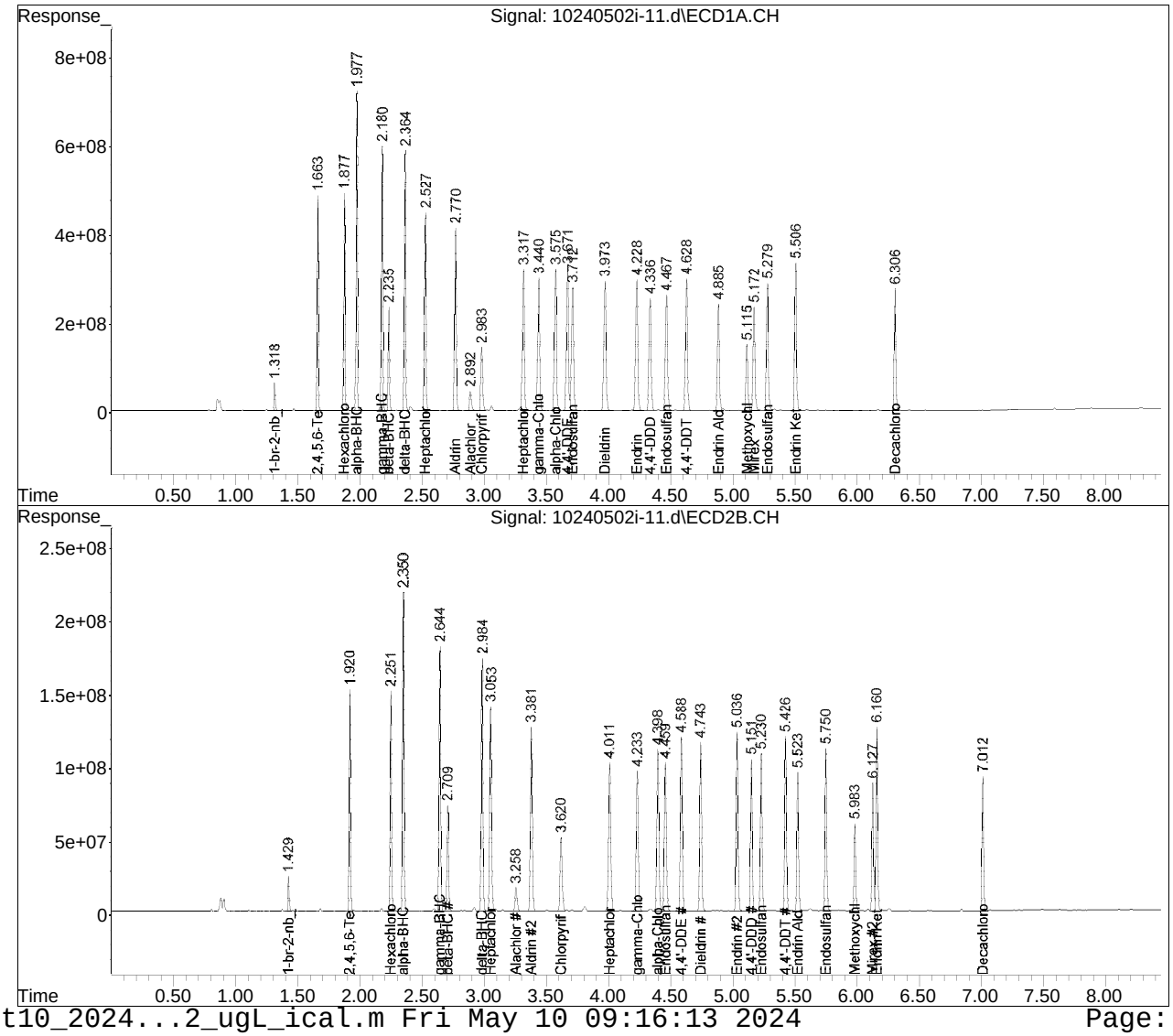
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

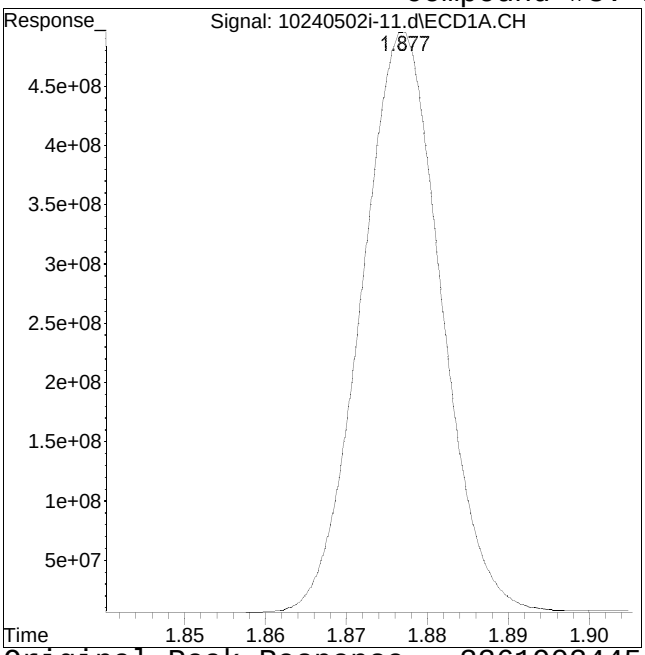
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

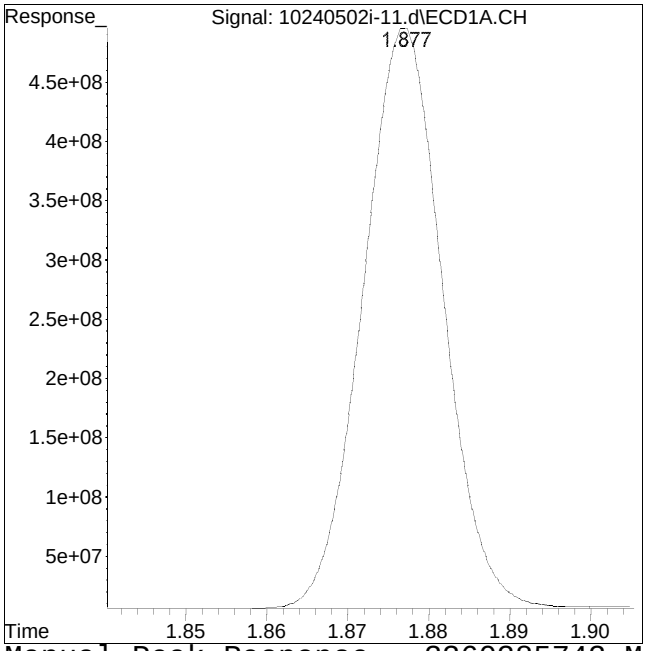


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #3: Hexachlorobenzene



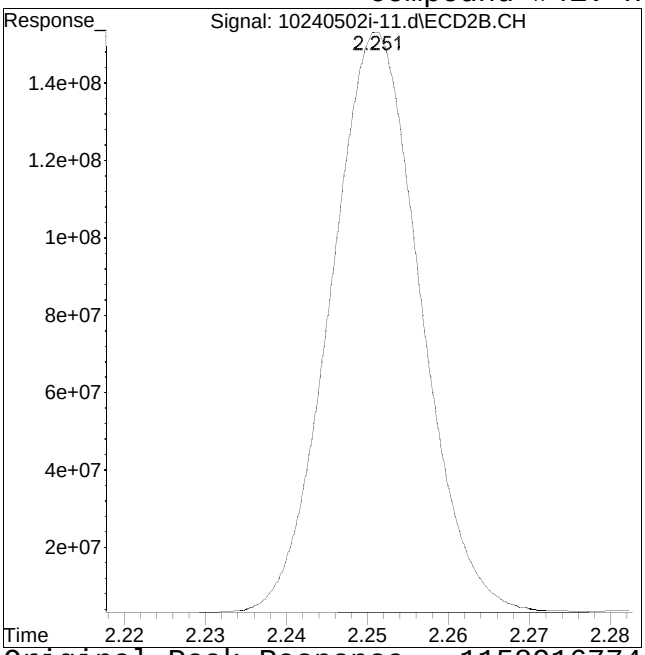


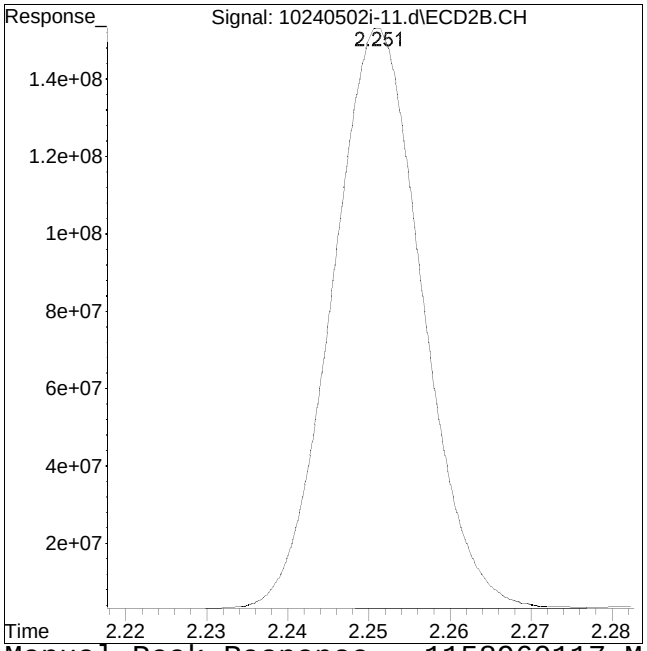
Original Peak Response = 3361903445 Manual Peak Response = 3360385743 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #41: Hexachlorobenzene #2



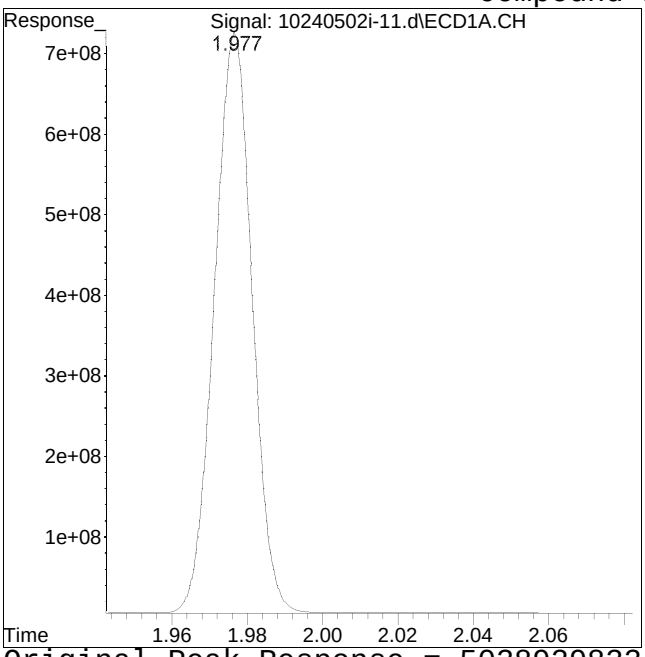


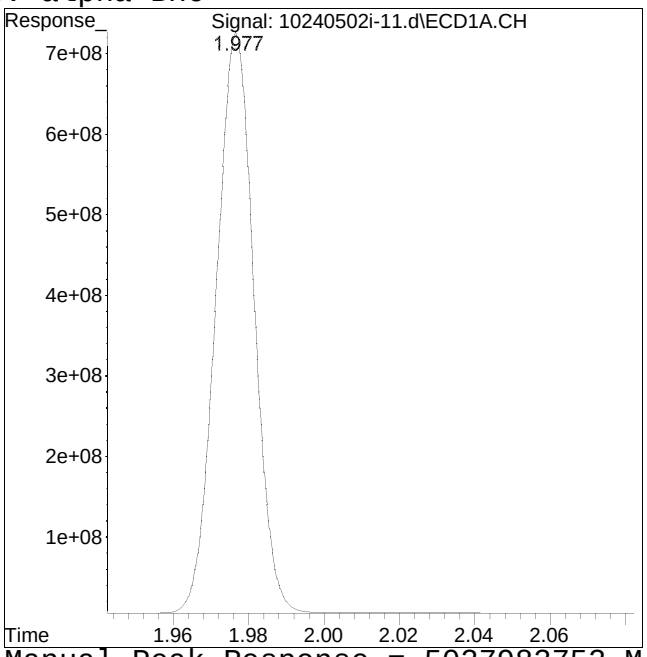
Original Peak Response = 1158916774 Manual Peak Response = 1158960117 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #4: alpha-BHC



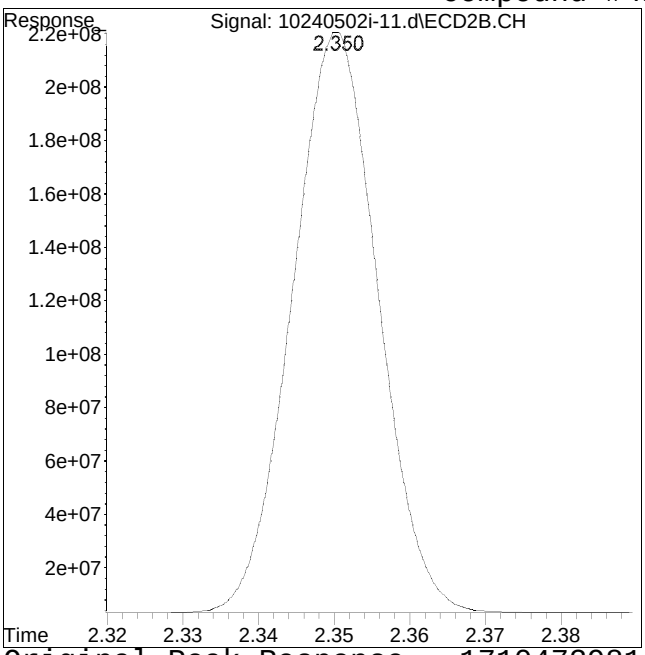


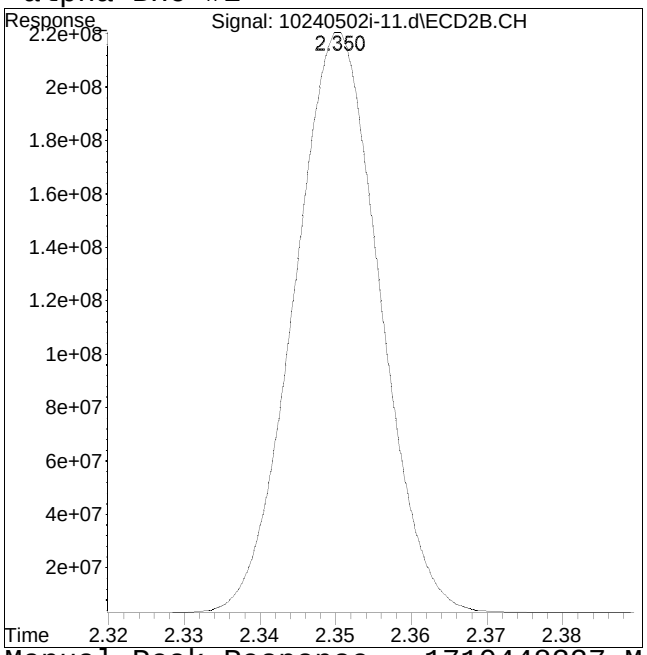
Original Peak Response = 5038929833 Manual Peak Response = 5027983752 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #42: alpha-BHC #2



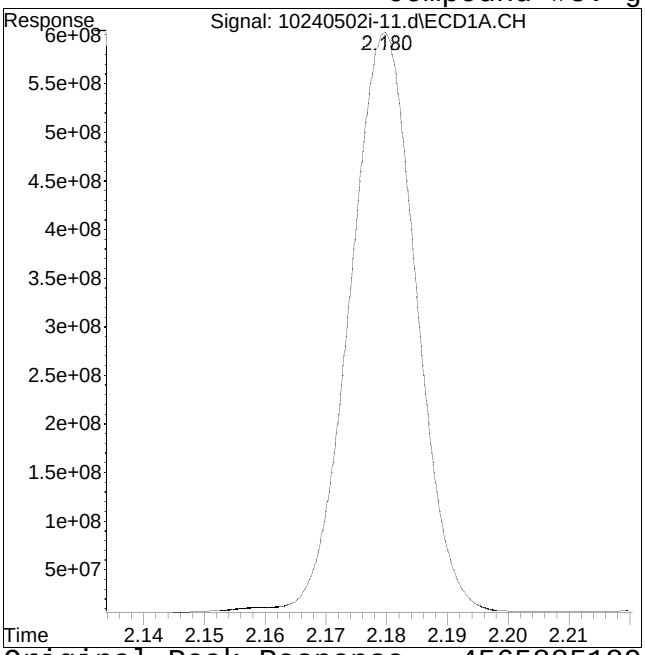


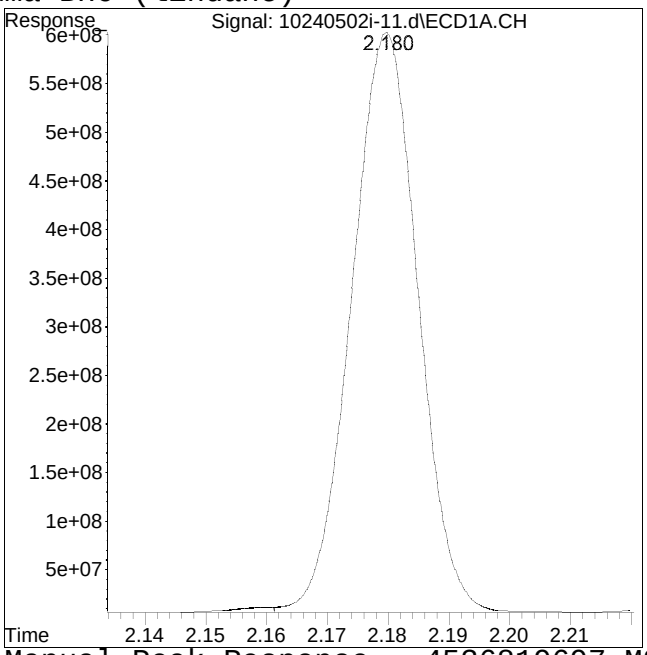
Original Peak Response = 1710473981 Manual Peak Response = 1710448327 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #5: gamma-BHC (lindane)



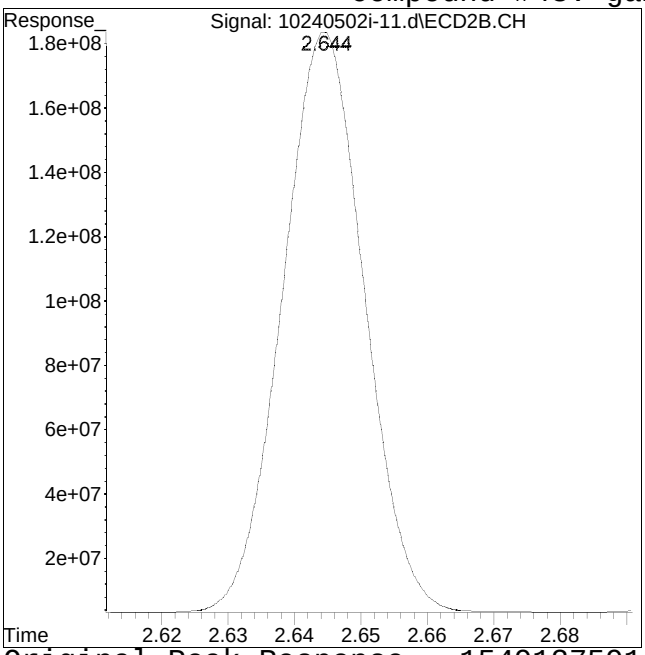


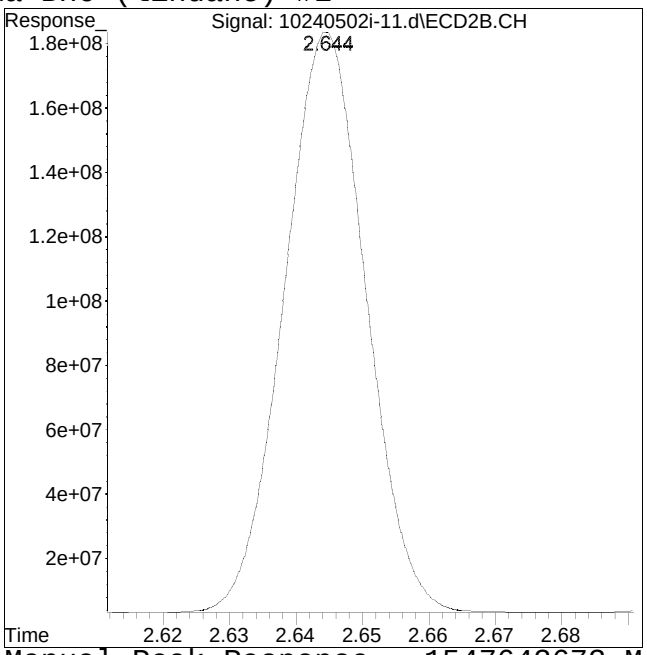
Original Peak Response = 4565885189 Manual Peak Response = 4536819697 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #43: gamma-BHC (lindane) #2



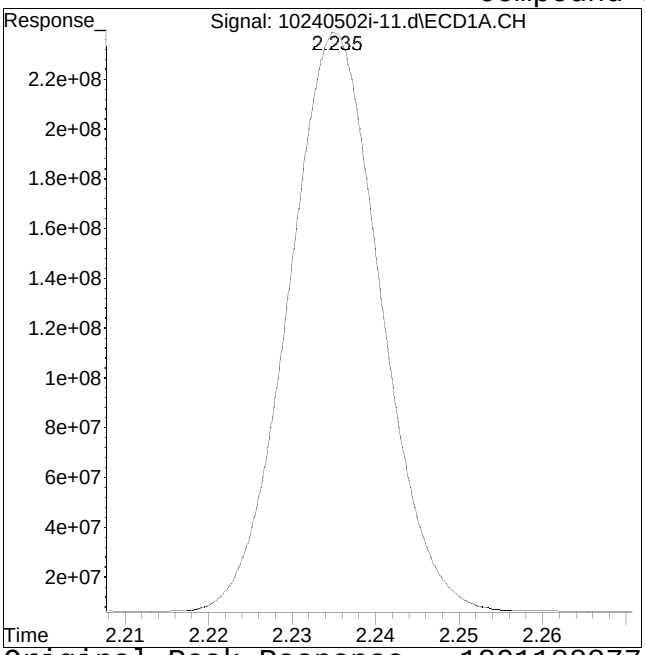


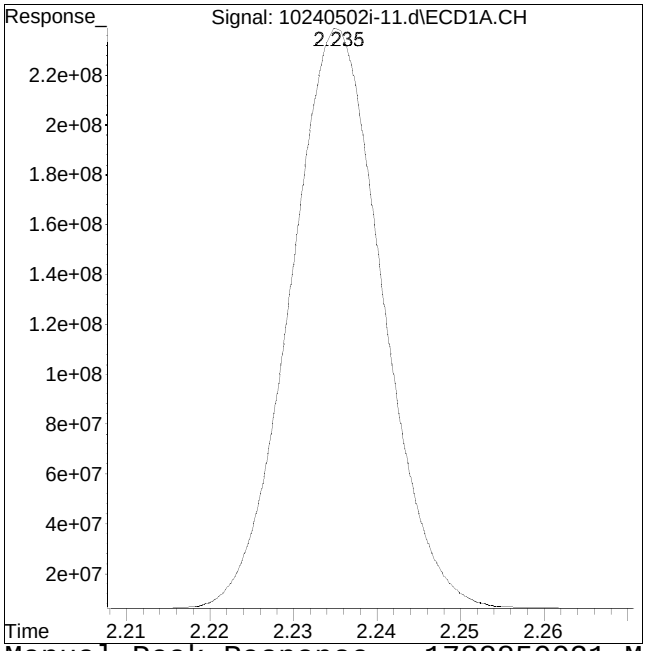
Original Peak Response = 1549127591 Manual Peak Response = 1547643673 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #6: beta-BHC



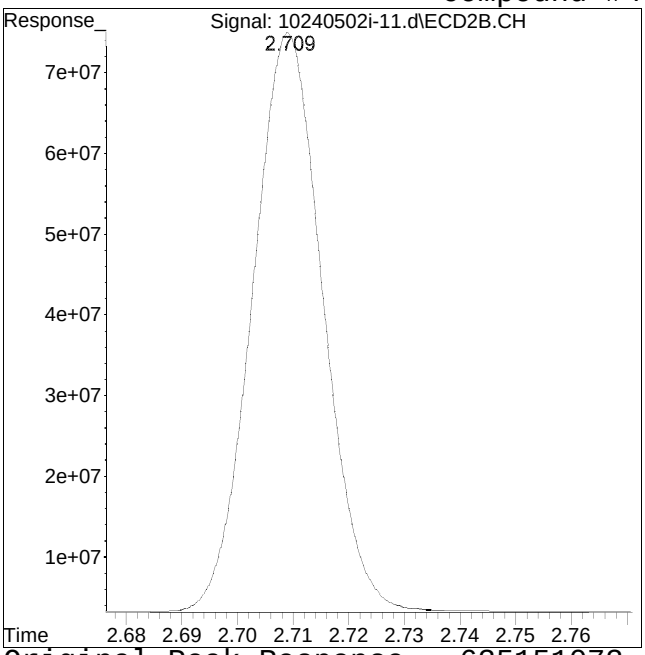


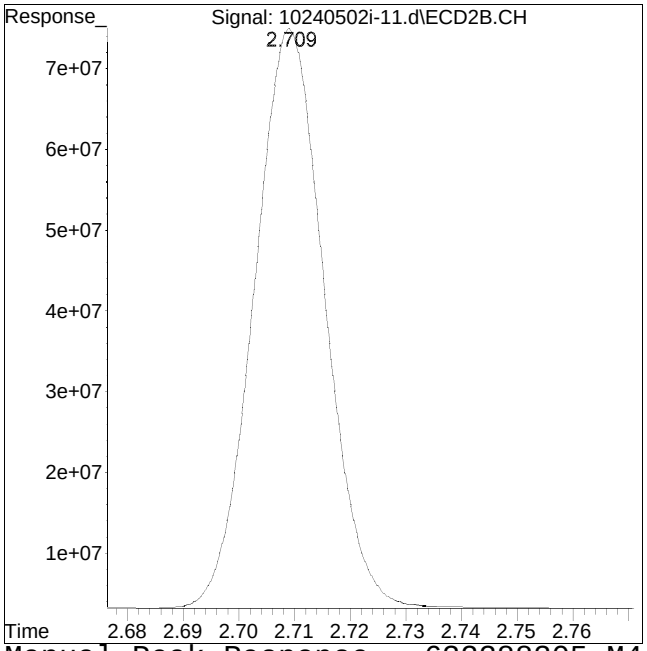
Original Peak Response = 1801188877 Manual Peak Response = 1788850031 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #44: beta-BHC #2



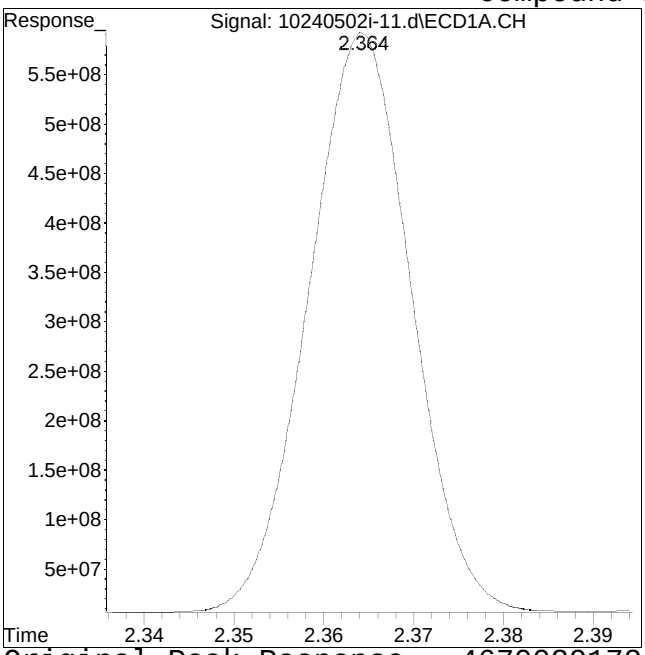


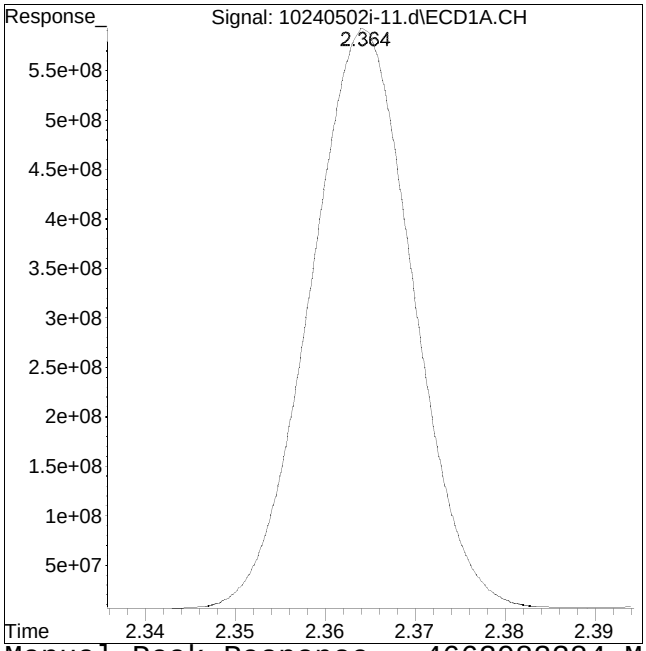
Original Peak Response = 635151073 Manual Peak Response = 632388305 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #7: delta-BHC



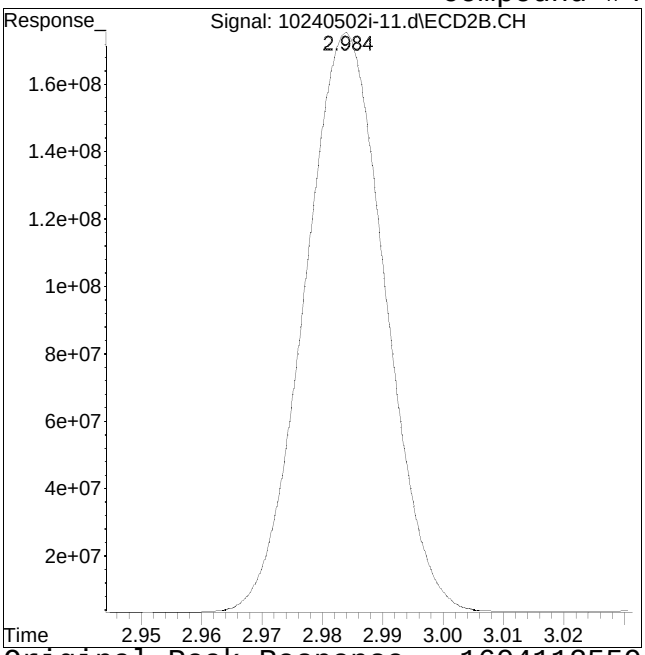


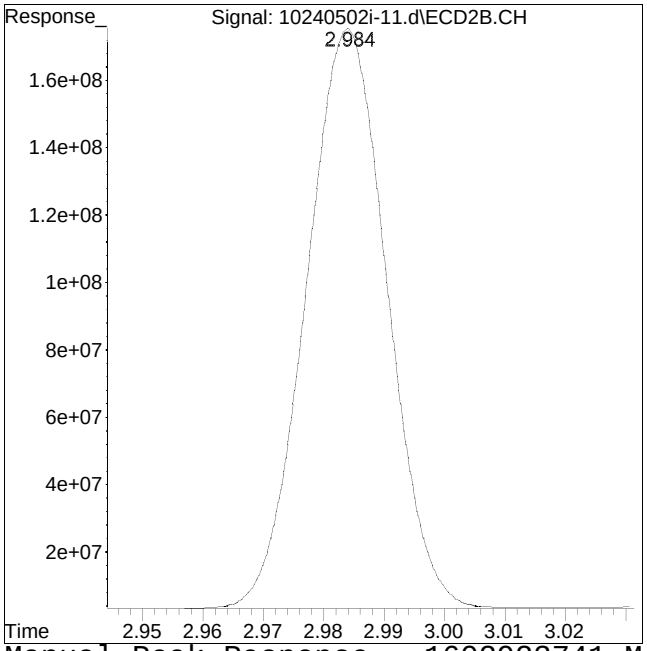
Original Peak Response = 4670029172 Manual Peak Response = 4663083384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #45: delta-BHC #2



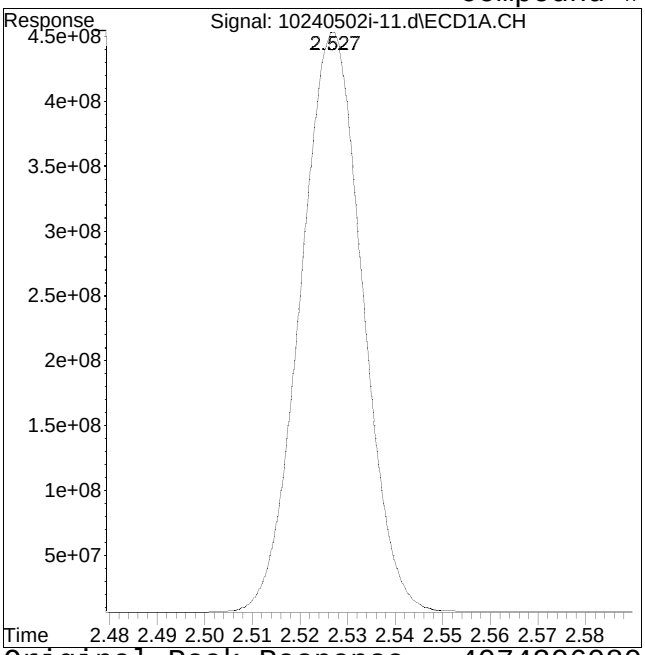


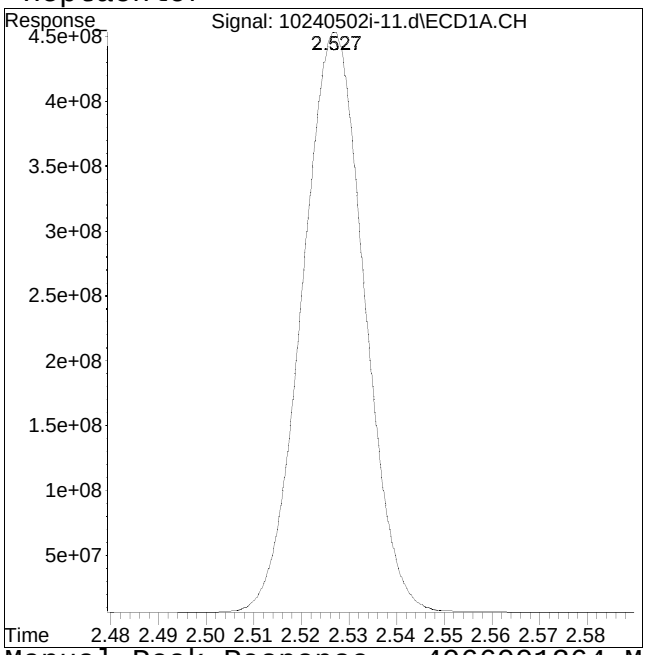
Original Peak Response = 1604112559 Manual Peak Response = 1602923741 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #8: Heptachlor



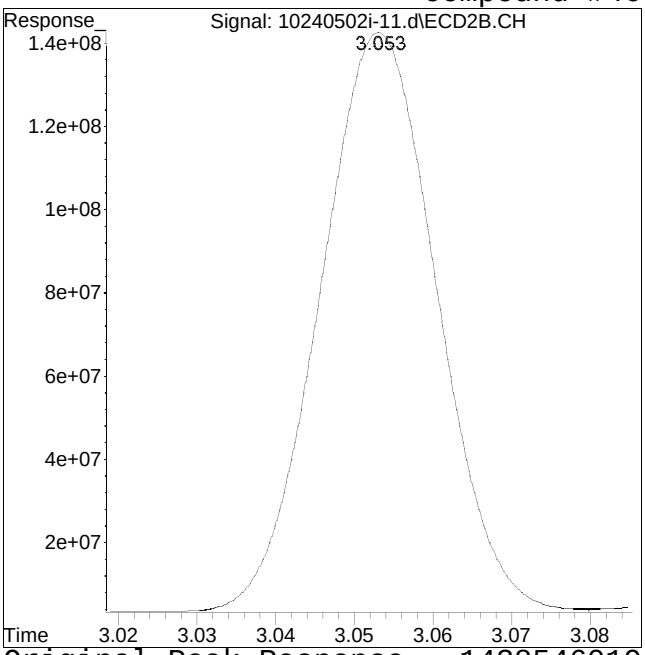


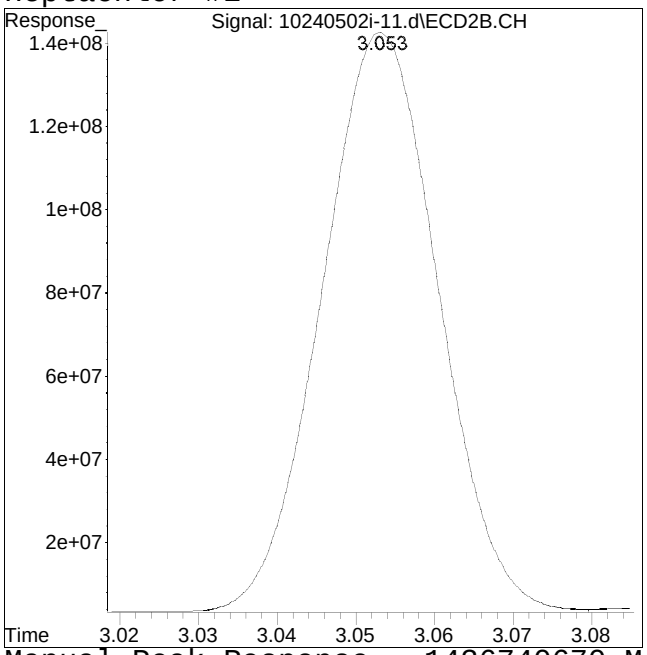
Original Peak Response = 4074306080 Manual Peak Response = 4066001264 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #46: Heptachlor #2



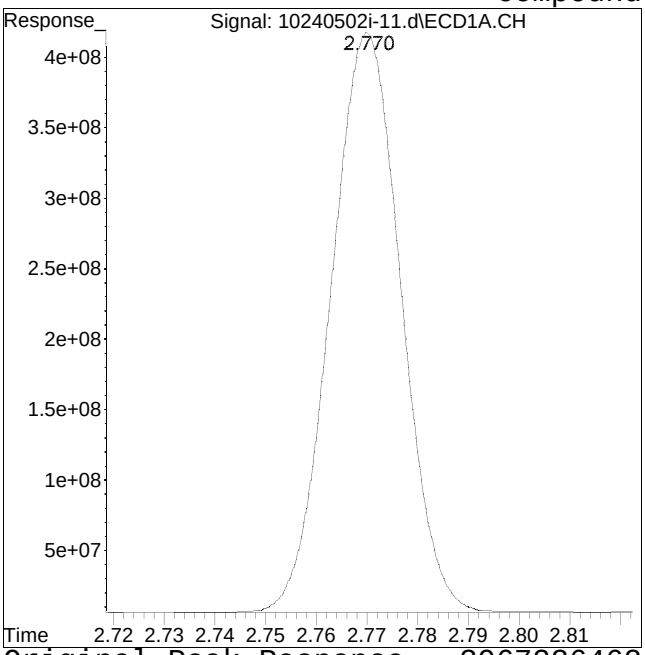


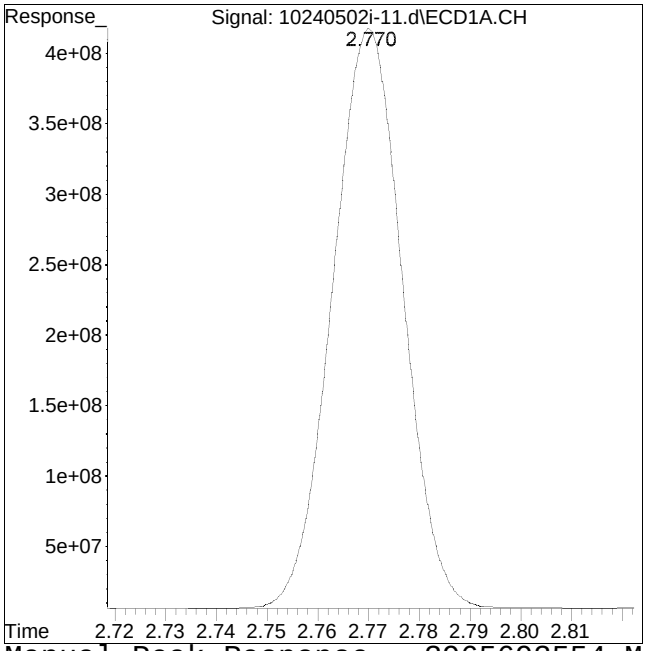
Original Peak Response = 1438546019 Manual Peak Response = 1436740670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #9: Aldrin



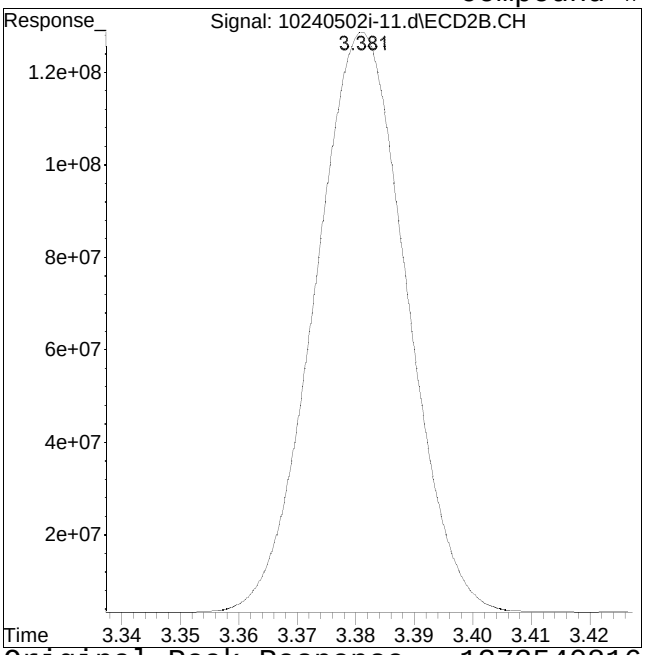


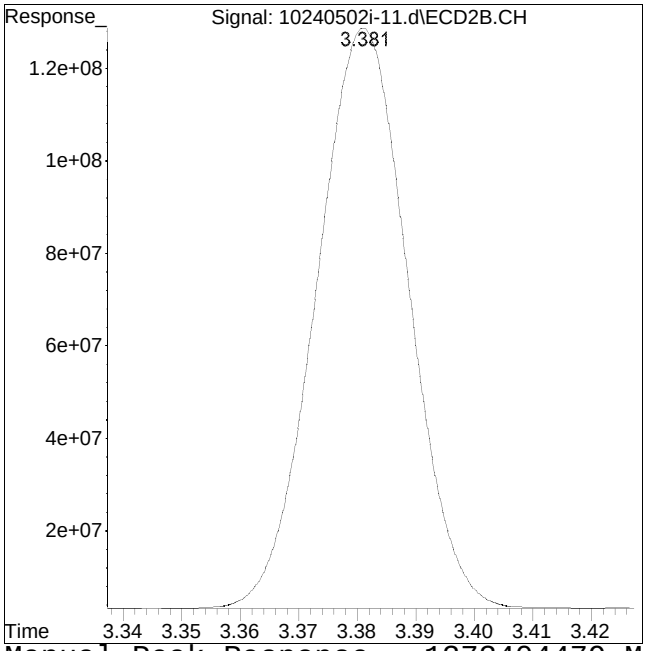
Original Peak Response = 3967226462 Manual Peak Response = 3965693554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #47: Aldrin #2



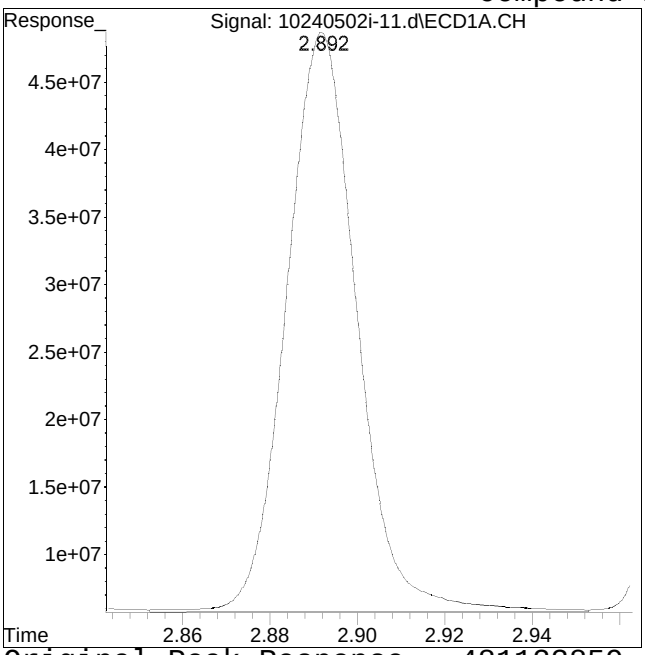


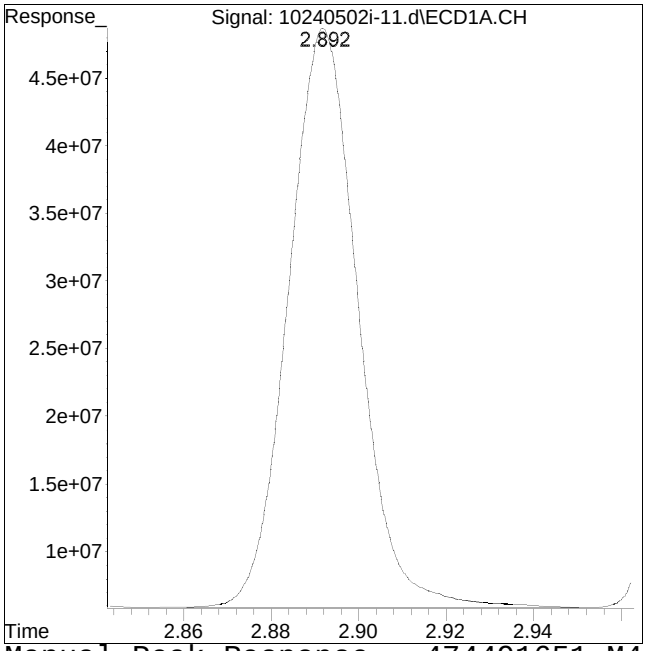
Original Peak Response = 1373540816 Manual Peak Response = 1373404479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #10: Alachlor



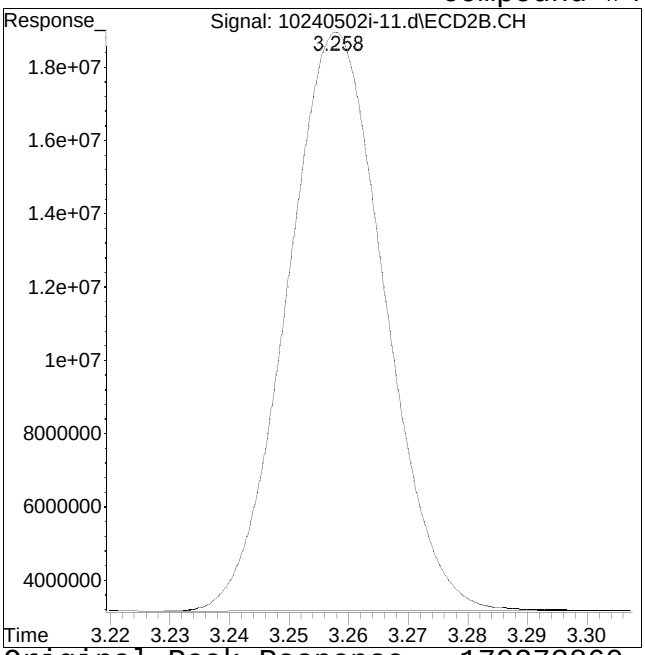


Original Peak Response = 481123859 Manual Peak Response = 474491651 M4
M4 = Poor automated baseline construction.

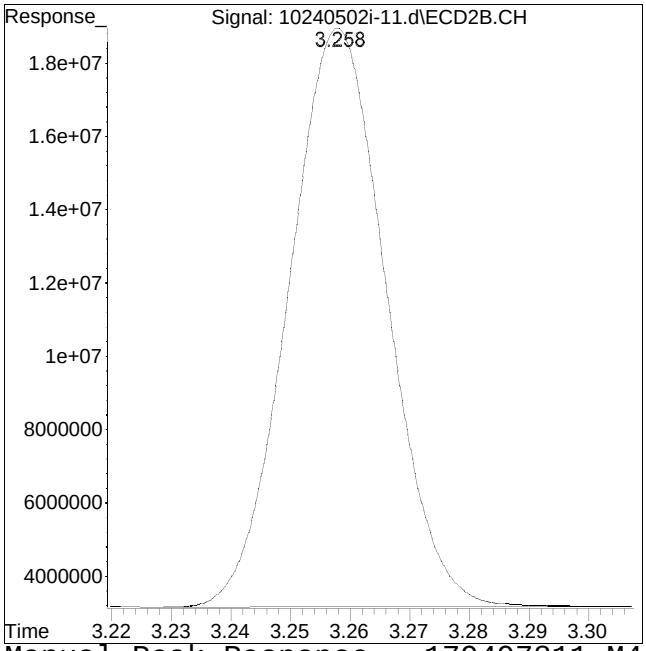
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #48: Alachlor #2



Original Peak Response = 179273860



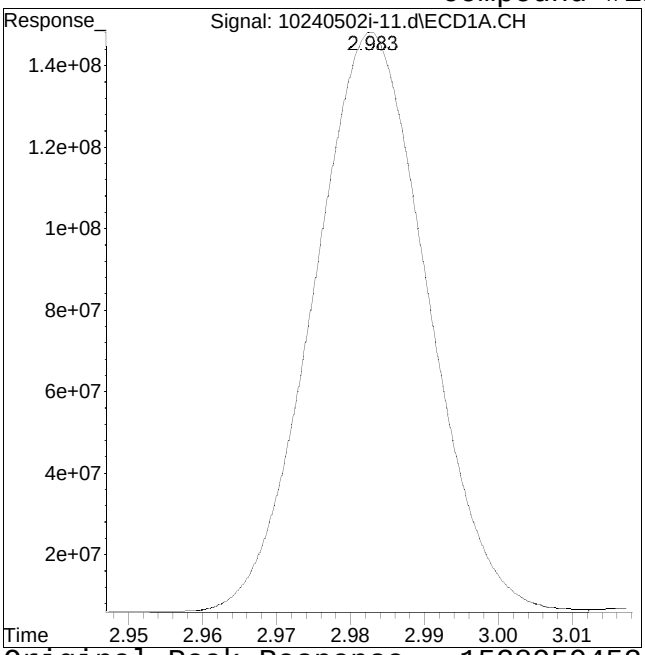
Manual Peak Response = 179497811 M4

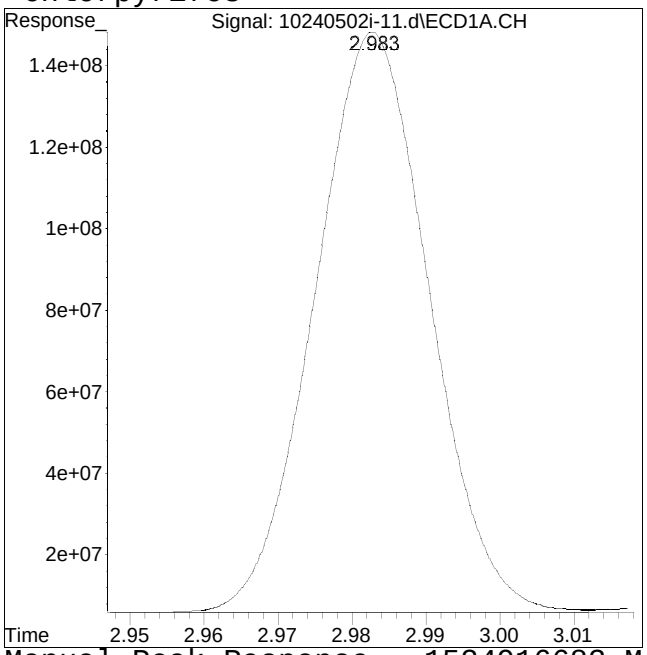
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #11: Chlorpyrifos



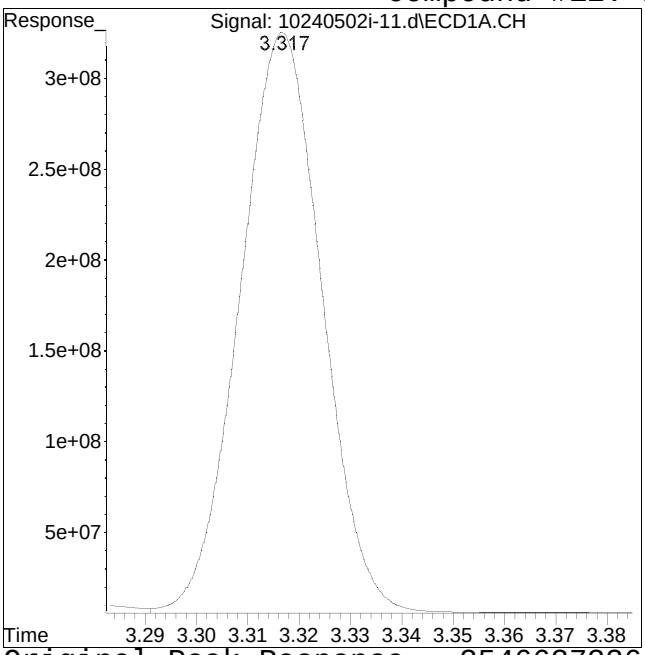


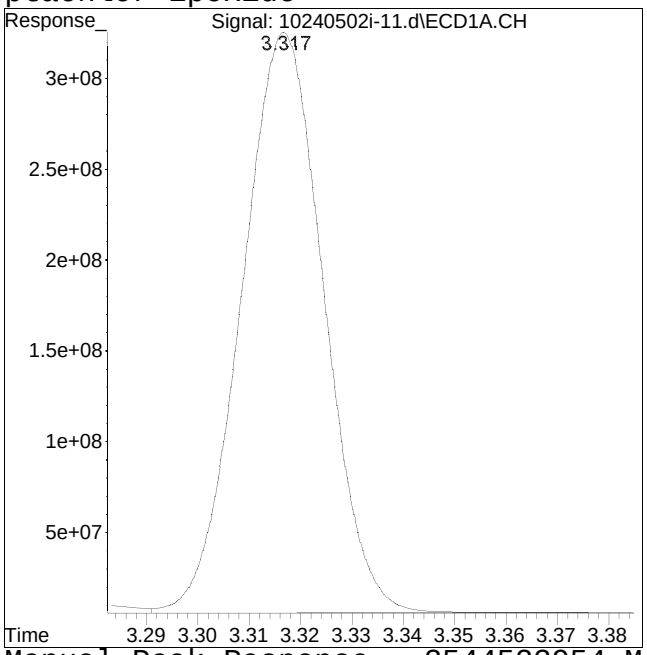
Original Peak Response = 1528959453 Manual Peak Response = 1524916683 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #12: Heptachlor Epoxide





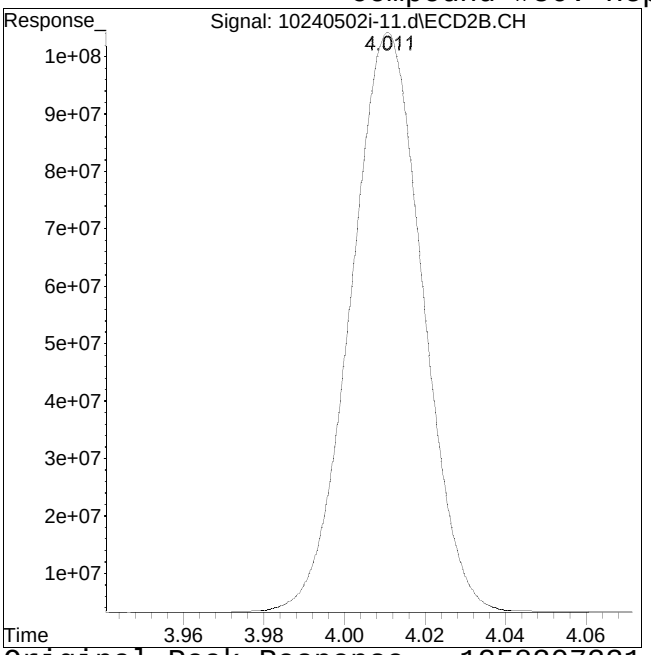
Original Peak Response = 3546637336 Manual Peak Response = 3544523954 M4
M4 = Poor automated baseline construction.

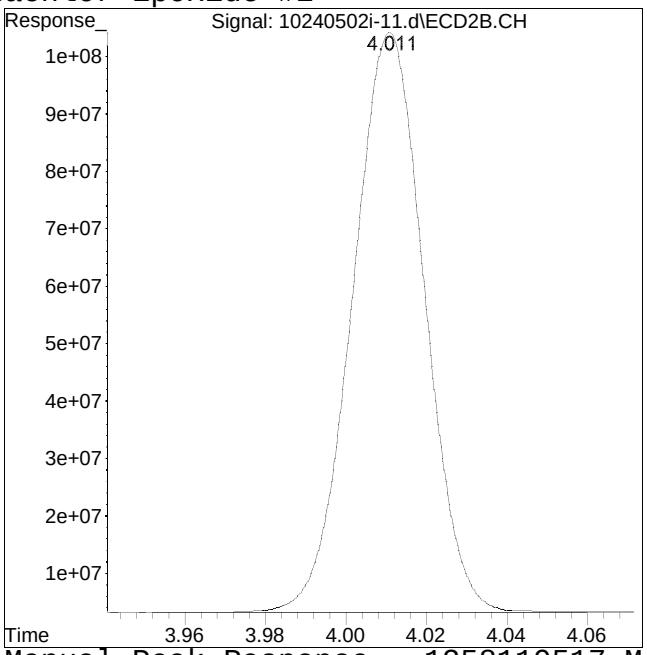
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #50: Heptachlor Epoxide #2



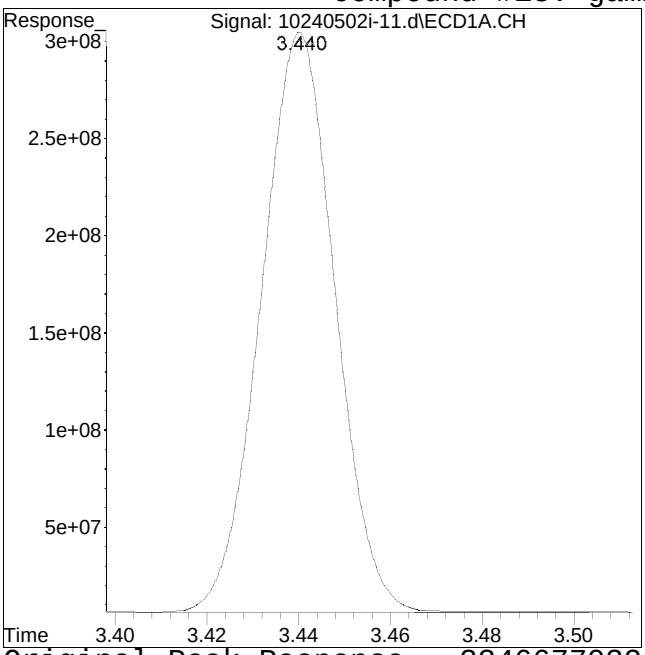


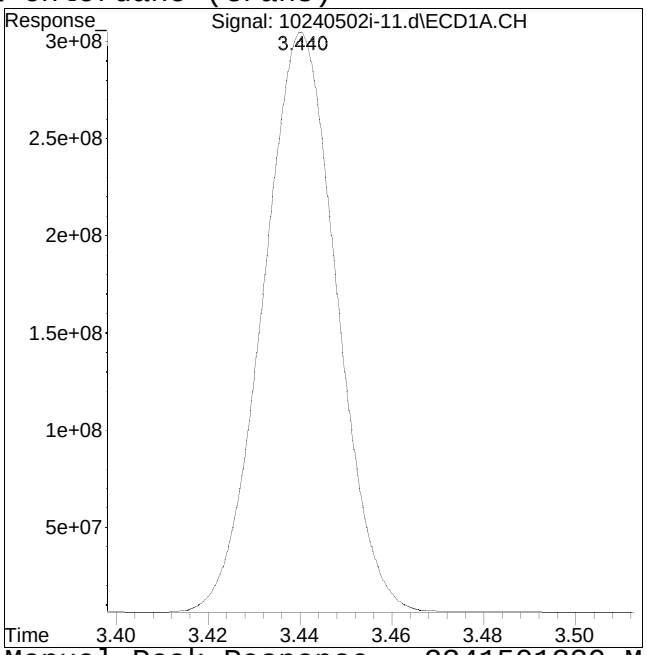
Original Peak Response = 1258307331 Manual Peak Response = 1258119517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #13: gamma-Chlordane (trans)





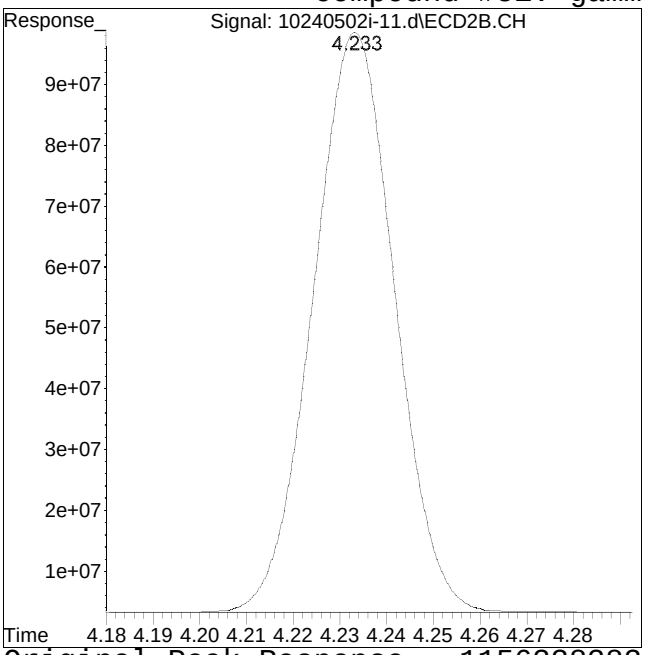
Original Peak Response = 3346677032 Manual Peak Response = 3341501339 M4
M4 = Poor automated baseline construction.

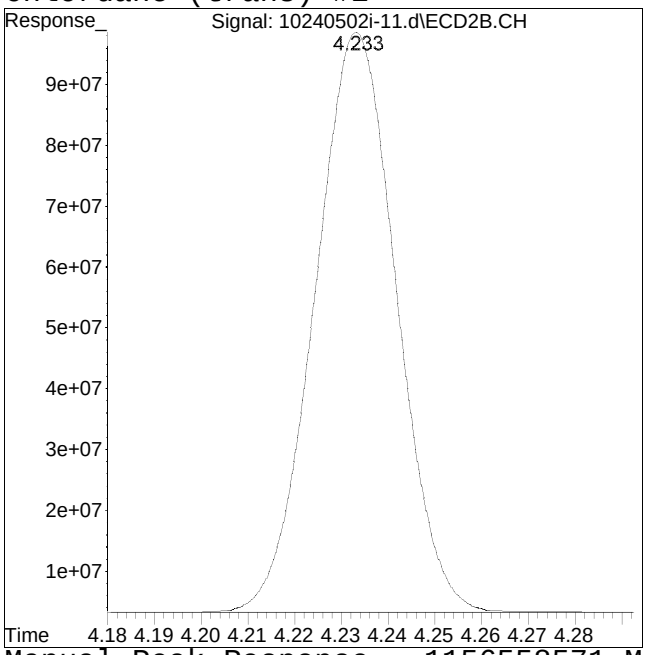
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #51: gamma-Chlordane (trans) #2



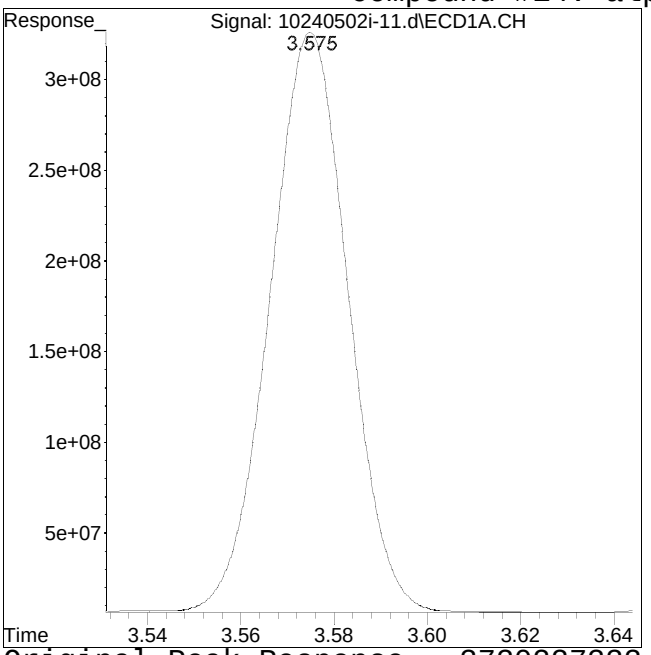


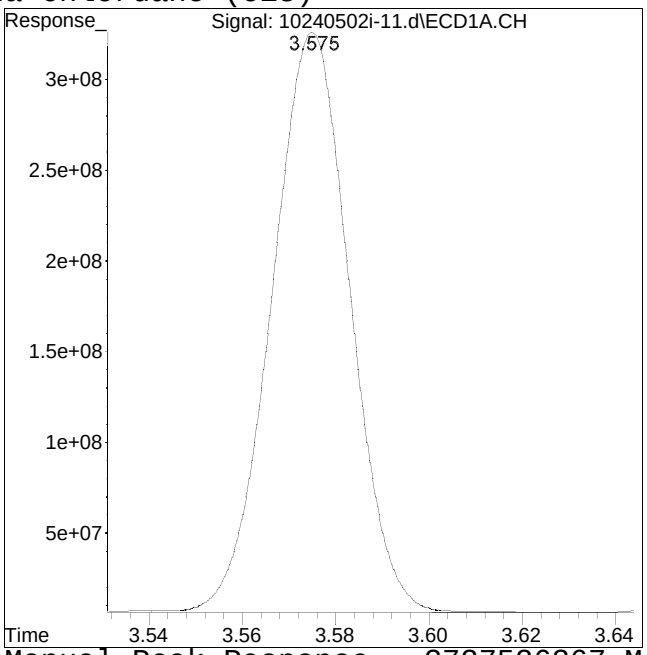
Original Peak Response = 1156338383 Manual Peak Response = 1156558571 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #14: alpha-Chlordane (cis)



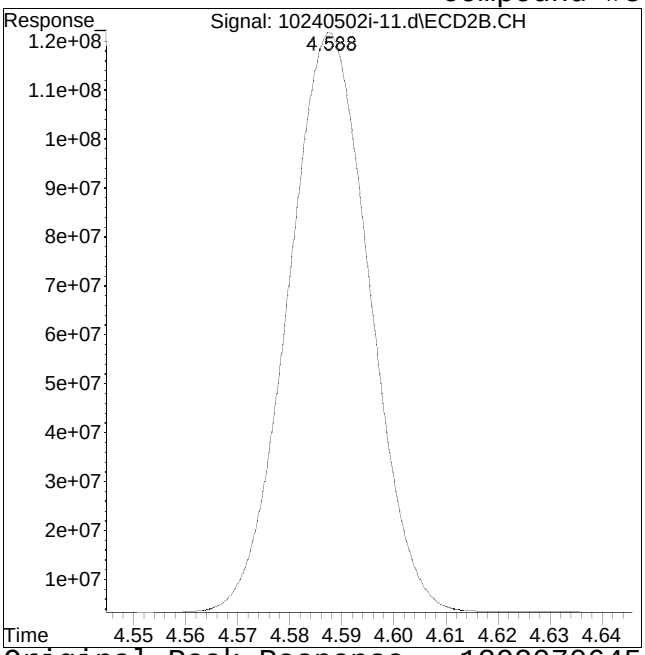


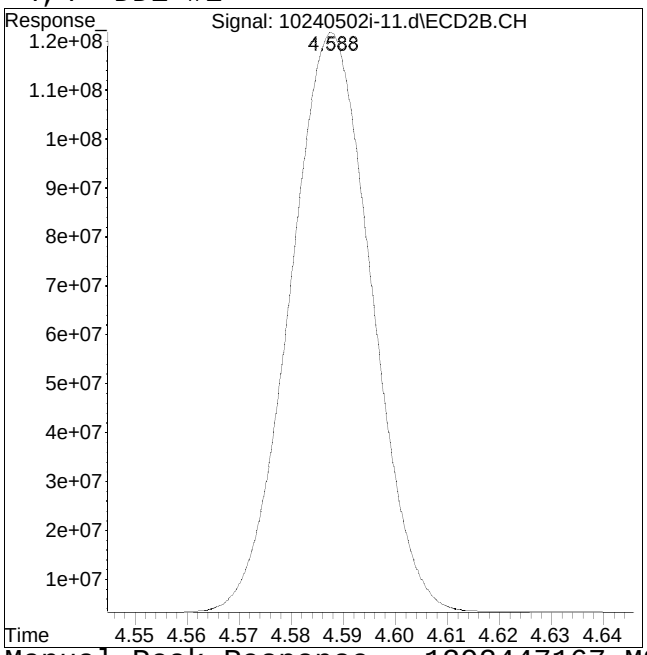
Original Peak Response = 3730227333 Manual Peak Response = 3727526367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #53: 4,4'-DDE #2



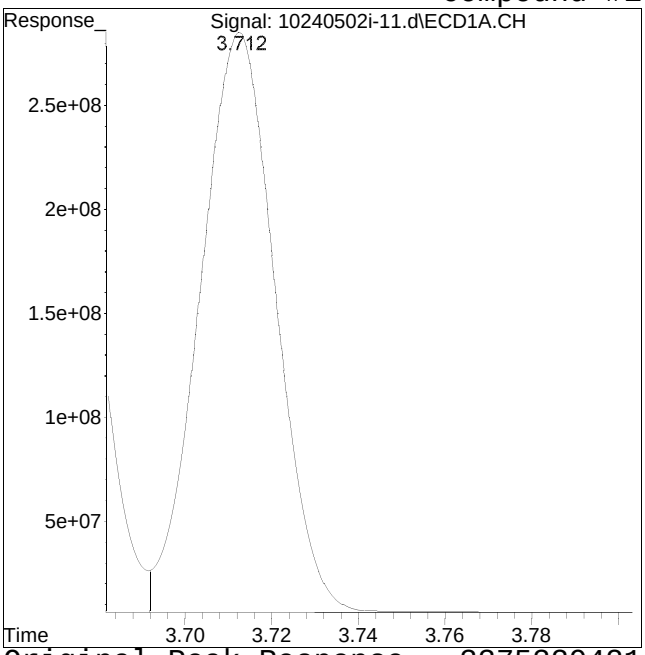


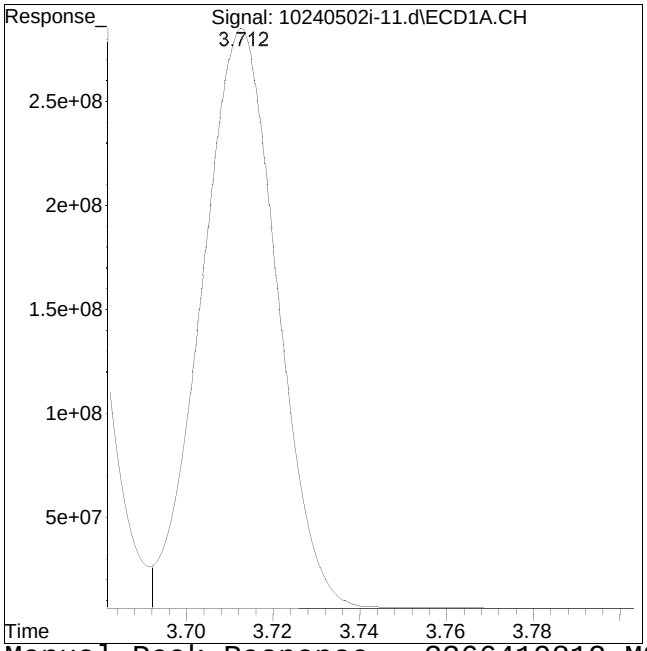
Original Peak Response = 1292070645 Manual Peak Response = 1292447167 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #16: Endosulfan I





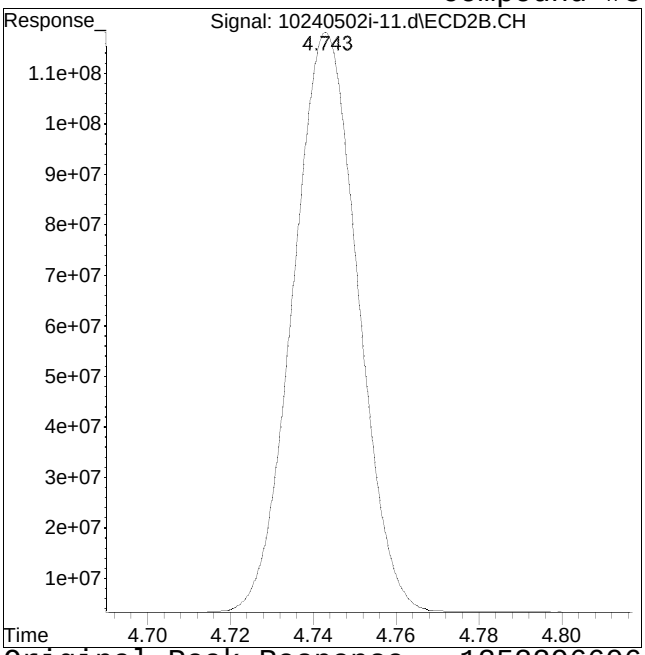
Original Peak Response = 3375329421 Manual Peak Response = 3366419812 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

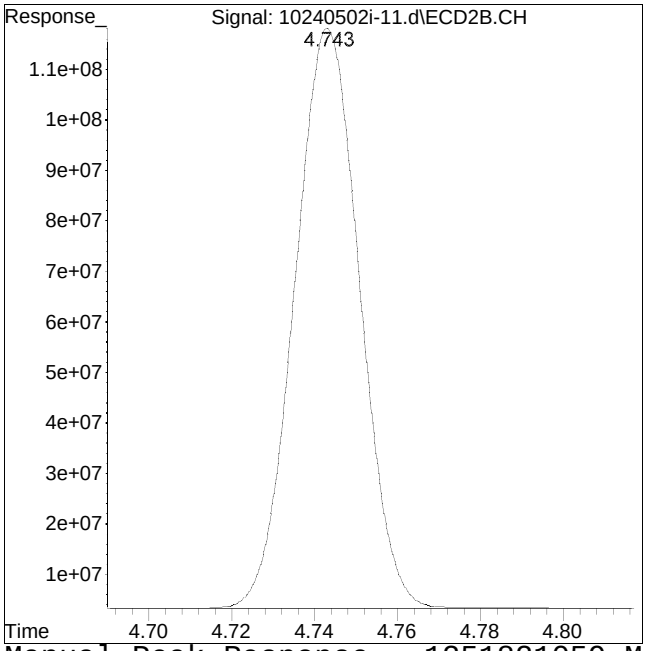
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #55: Dieldrin #2



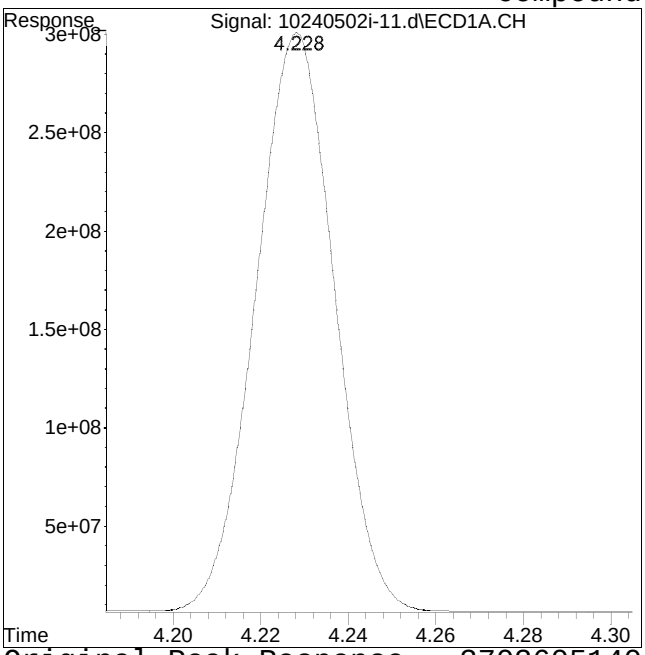


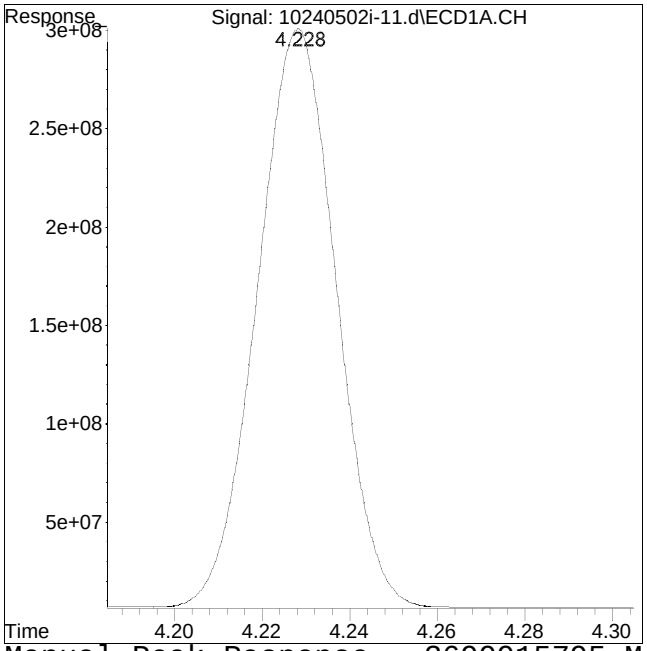
Original Peak Response = 1252296606 Manual Peak Response = 1251821059 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #18: Endrin



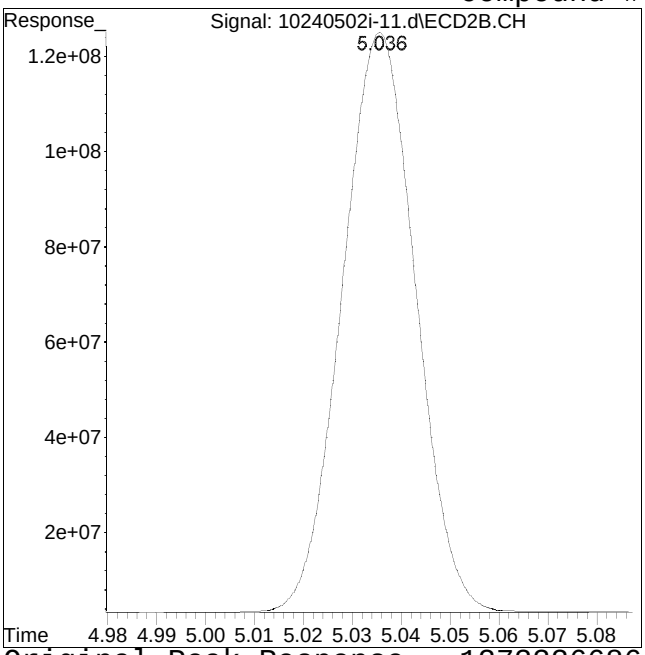


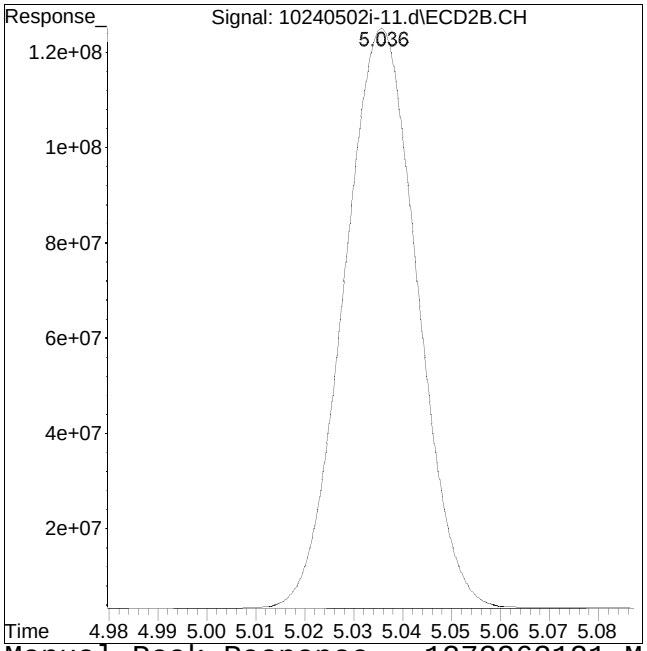
Original Peak Response = 3703605140 Manual Peak Response = 3699915795 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #56: Endrin #2





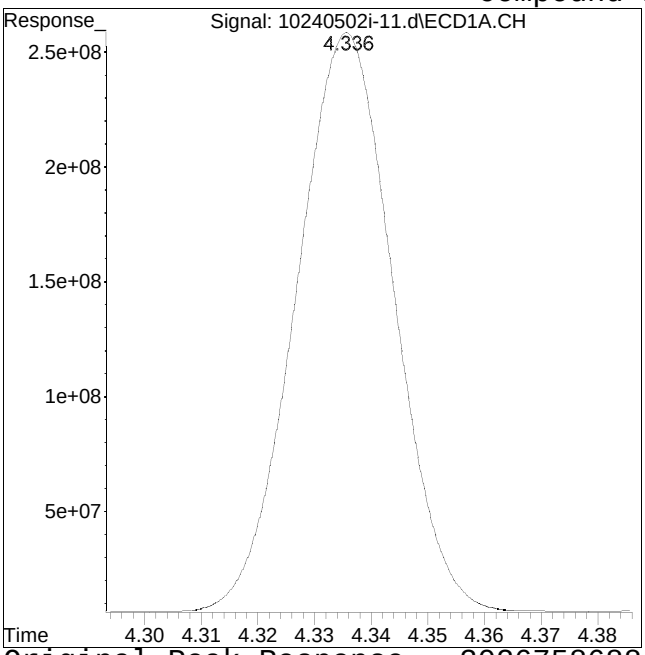
Original Peak Response = 1273326686 Manual Peak Response = 1273262121 M4
M4 = Poor automated baseline construction.

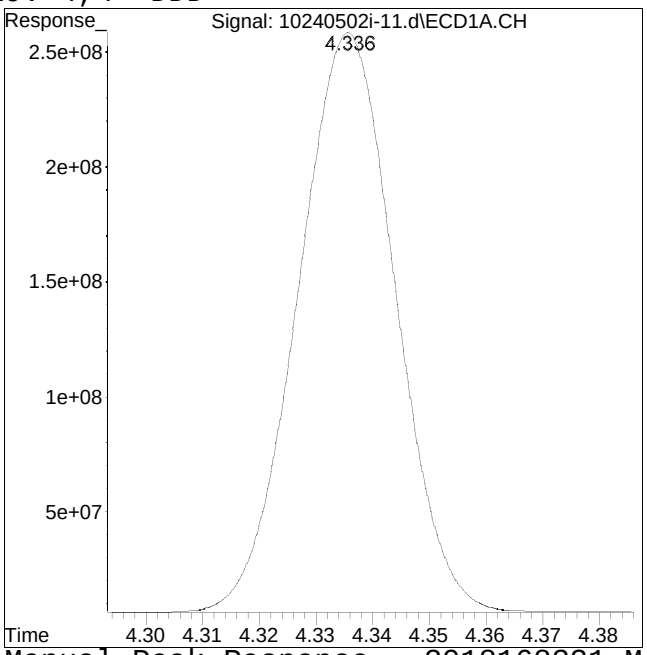
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #19: 4,4'-DDD



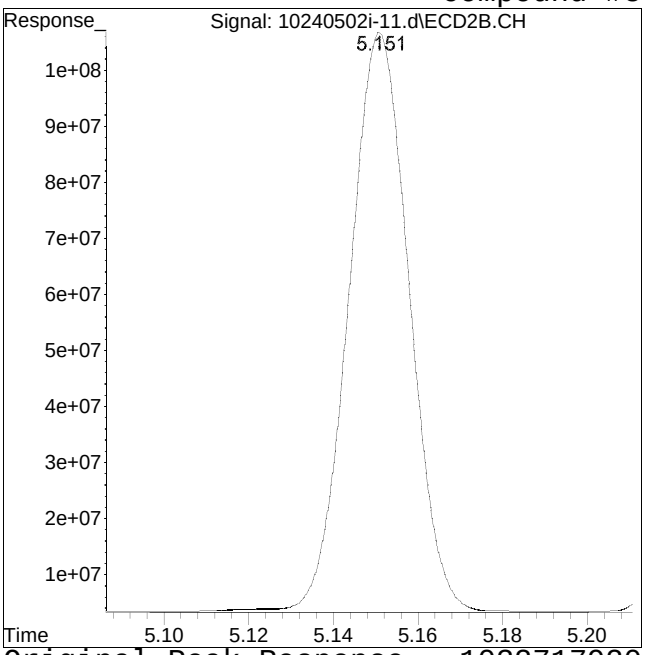


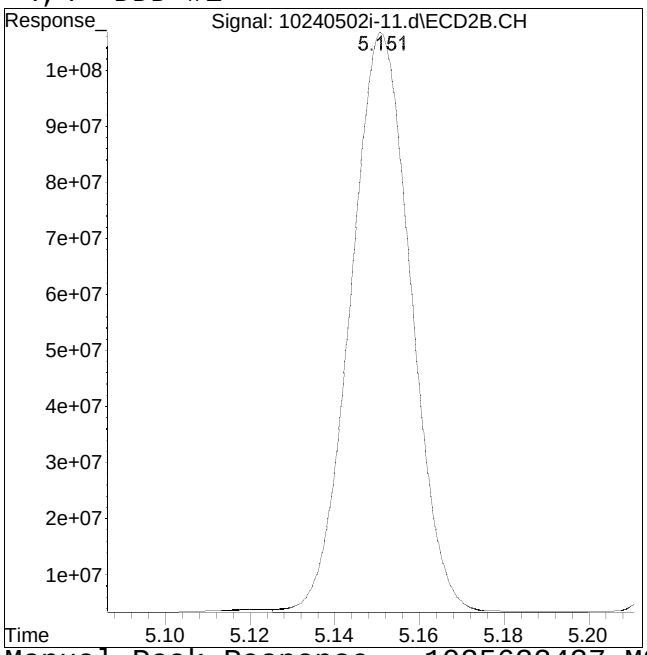
Original Peak Response = 3026758688 Manual Peak Response = 3018168331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #57: 4,4'-DDD #2





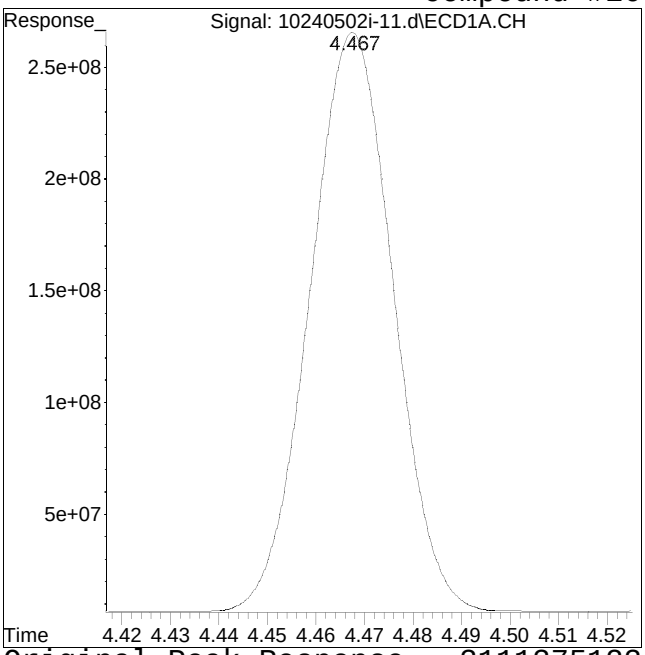
Original Peak Response = 1032717920 Manual Peak Response = 1025632437 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

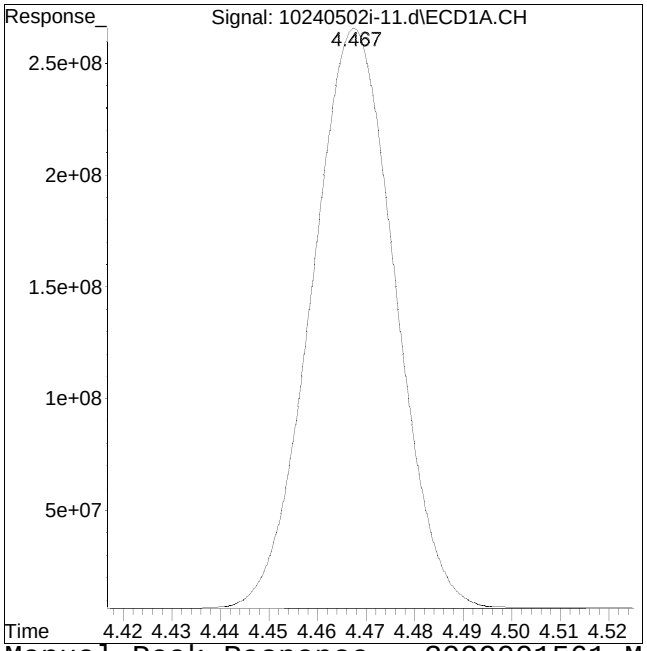
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #20: Endosulfan II



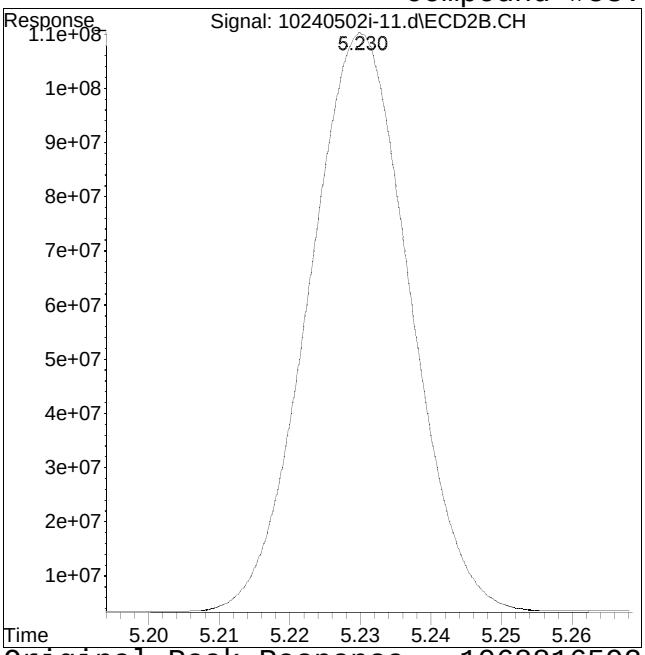


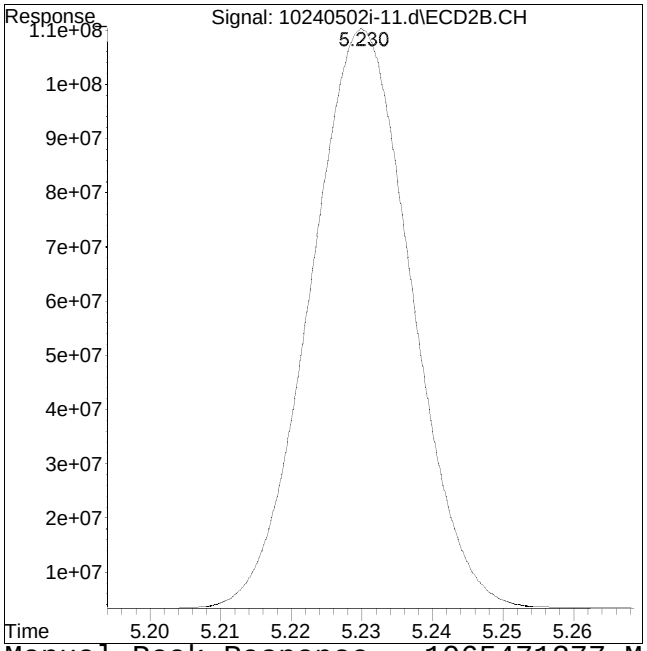
Original Peak Response = 3111375123 Manual Peak Response = 3099001561 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #58: Endosulfan II #2





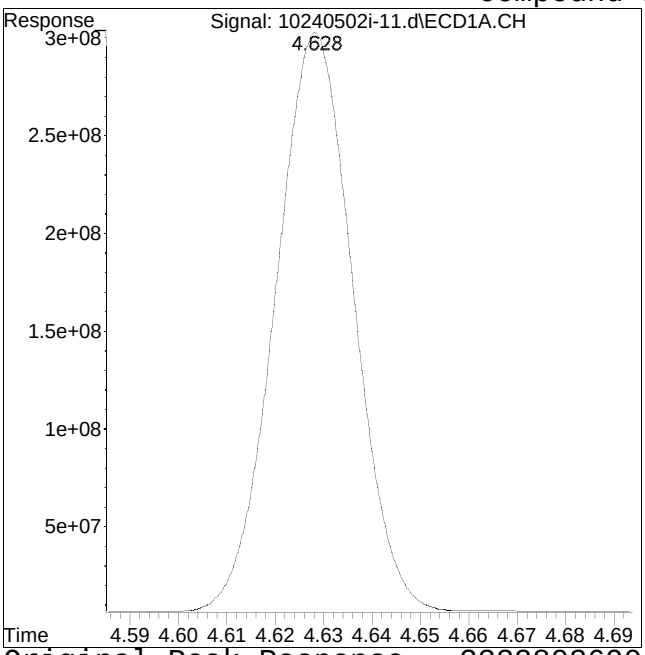
Original Peak Response = 1068816592 Manual Peak Response = 1065471277 M4
M4 = Poor automated baseline construction.

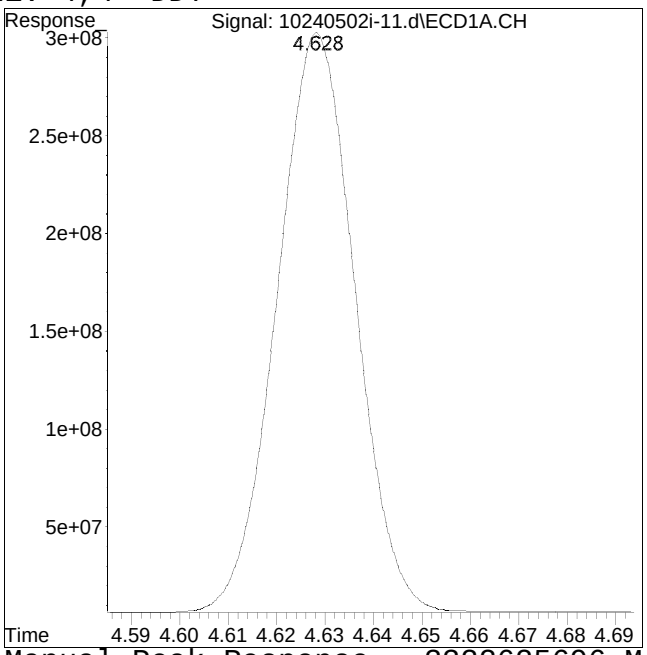
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #21: 4,4'-DDT



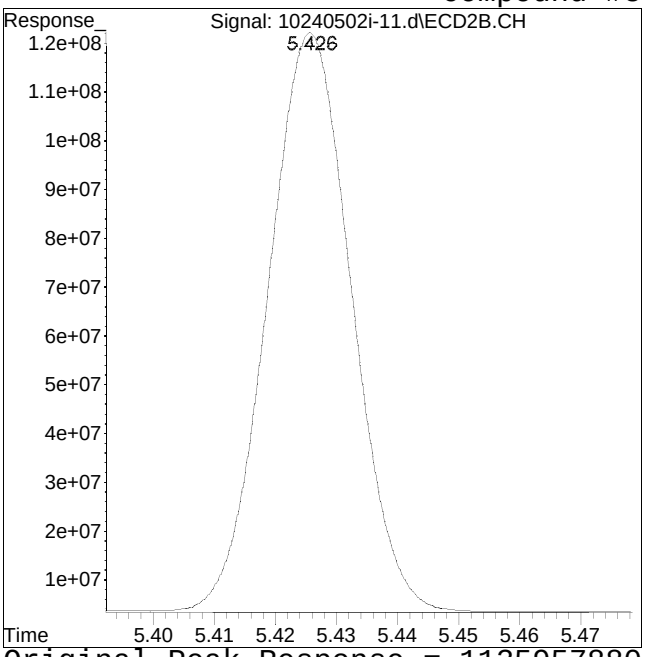


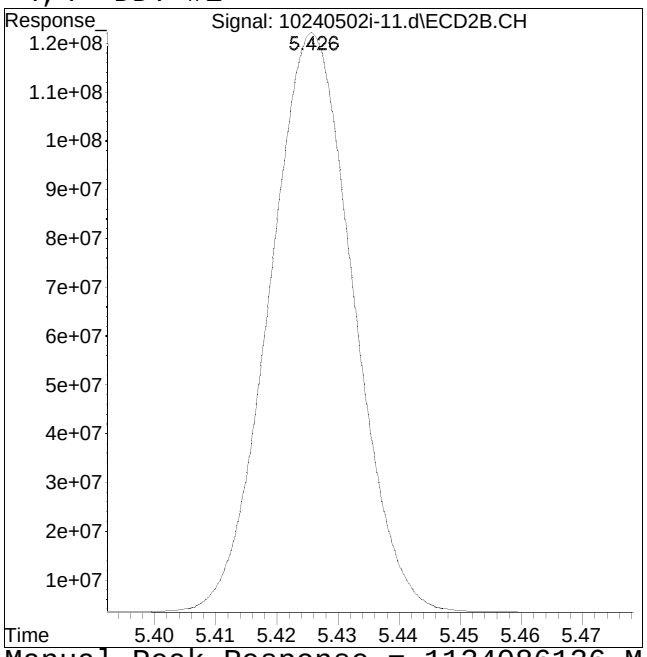
Original Peak Response = 3333803690 Manual Peak Response = 3322625696 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #59: 4,4'-DDT #2





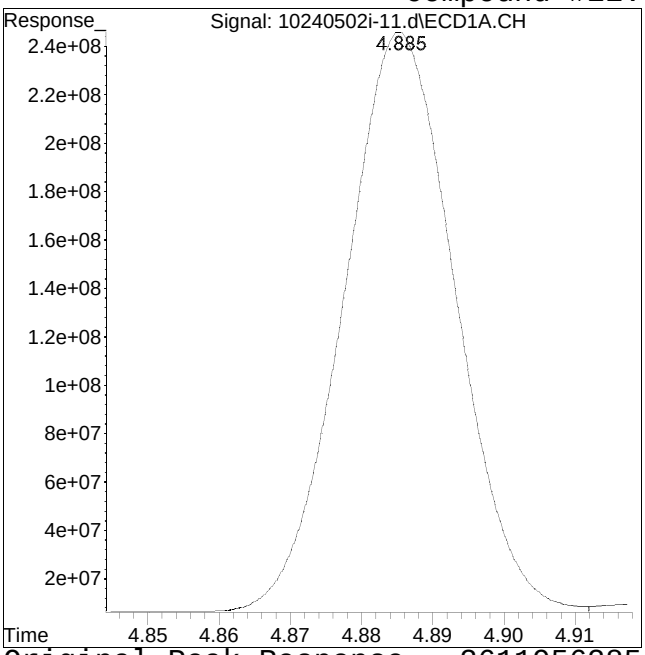
Original Peak Response = 1135957880 Manual Peak Response = 1134086136 M4
M4 = Poor automated baseline construction.

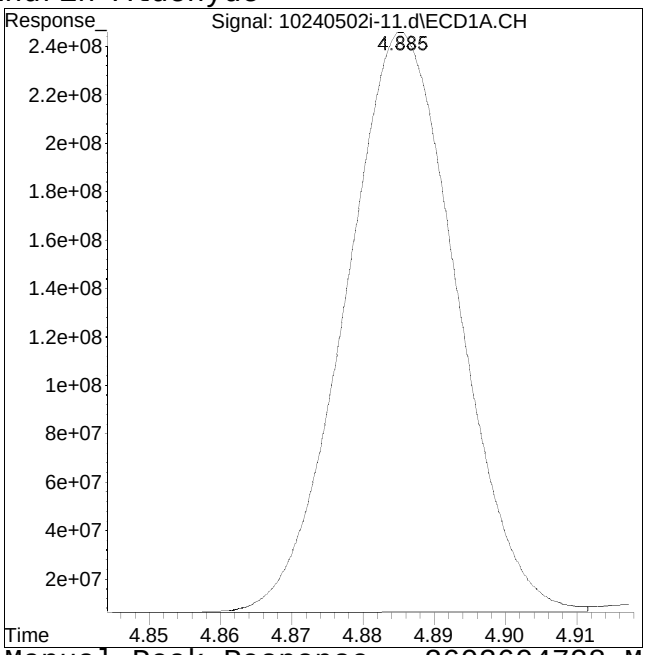
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #22: Endrin Aldehyde



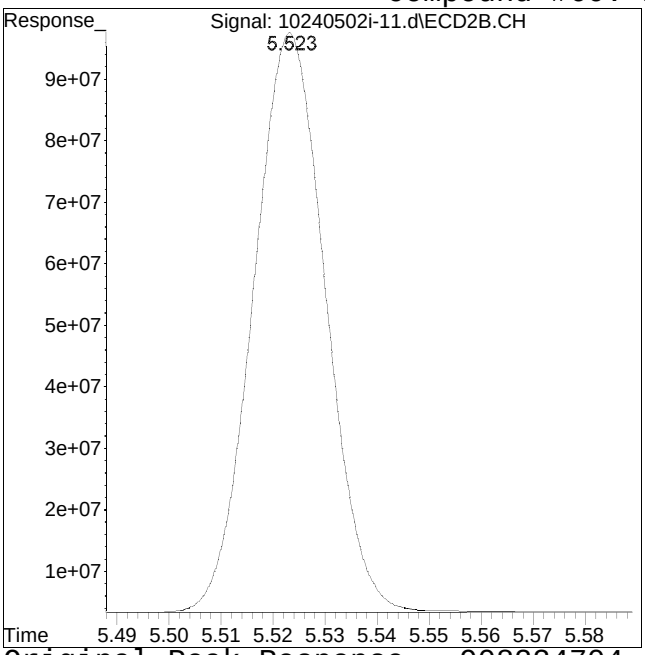


Original Peak Response = 2611956285 Manual Peak Response = 2603604728 M4
M4 = Poor automated baseline construction.

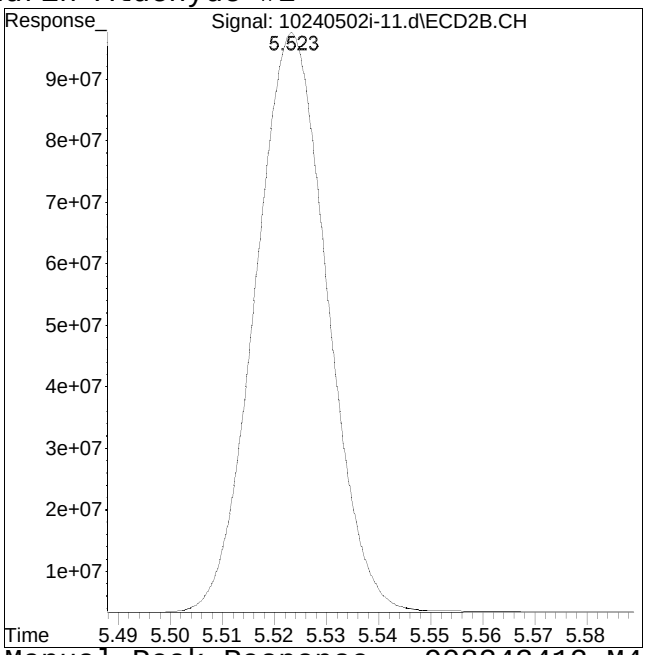
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 908224704



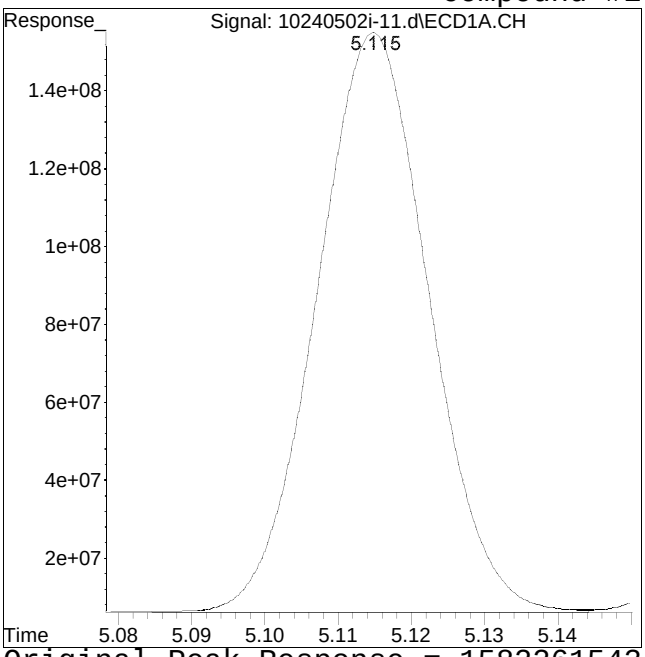
Manual Peak Response = 908343412 M4

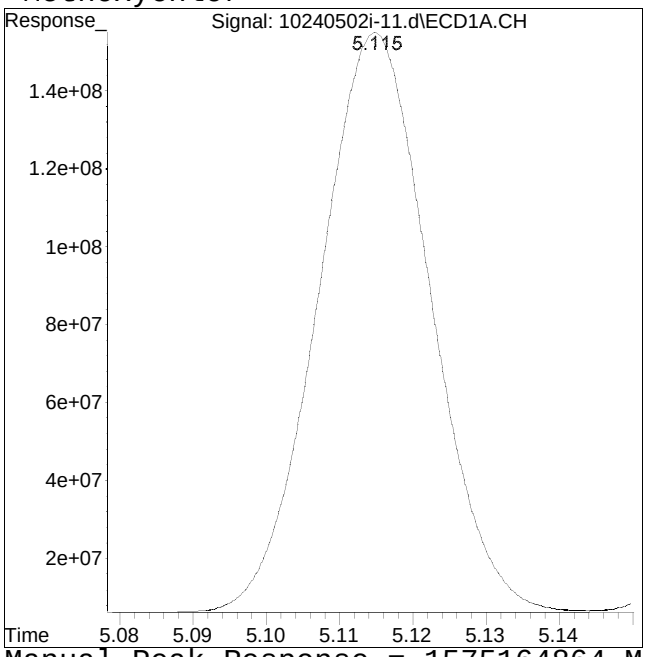
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #23: Methoxychlor



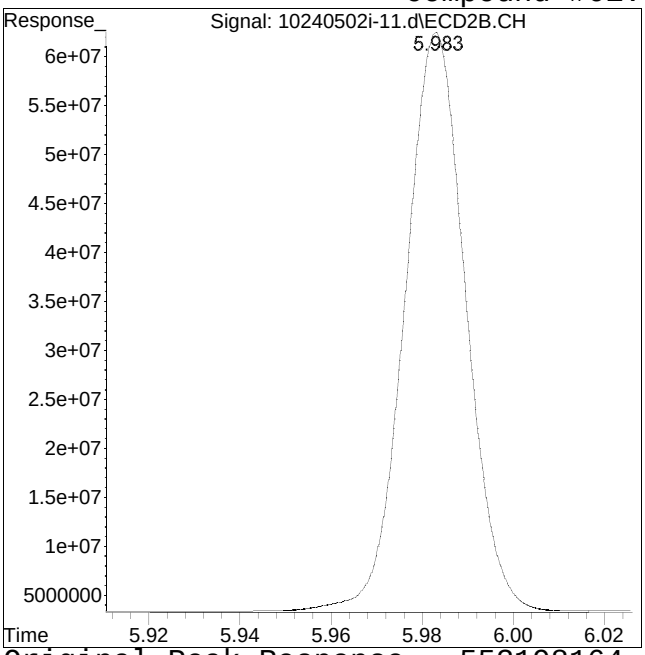


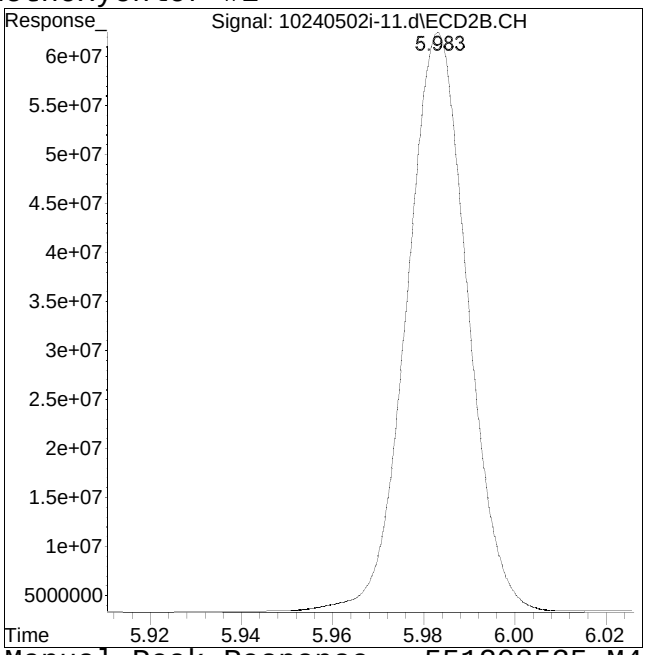
Original Peak Response = 1582261543 Manual Peak Response = 1575164864 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #61: Methoxychlor #2



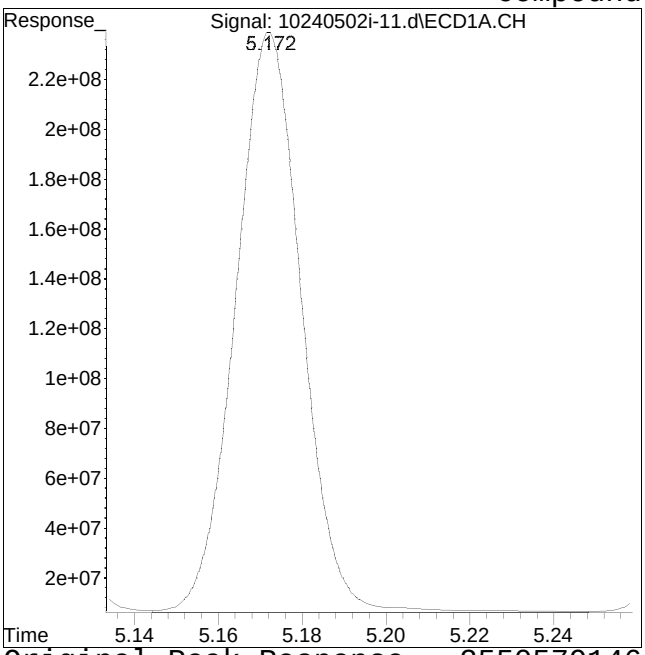


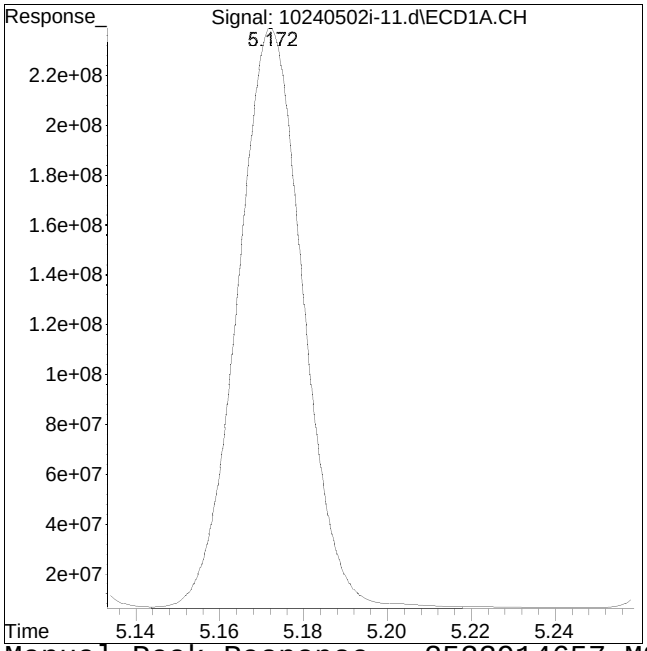
Original Peak Response = 553198164 Manual Peak Response = 551208535 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #24: Mirex





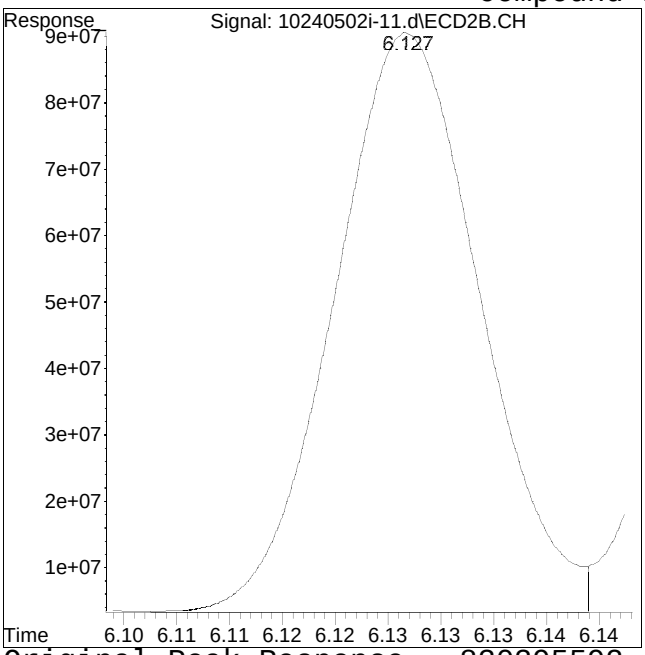
Original Peak Response = 2550579146 Manual Peak Response = 2533914657 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

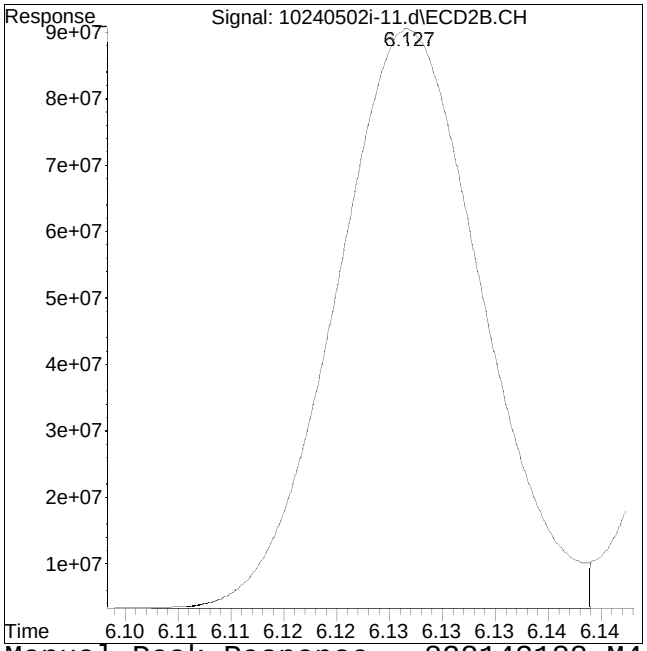
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #62: Mirex #2



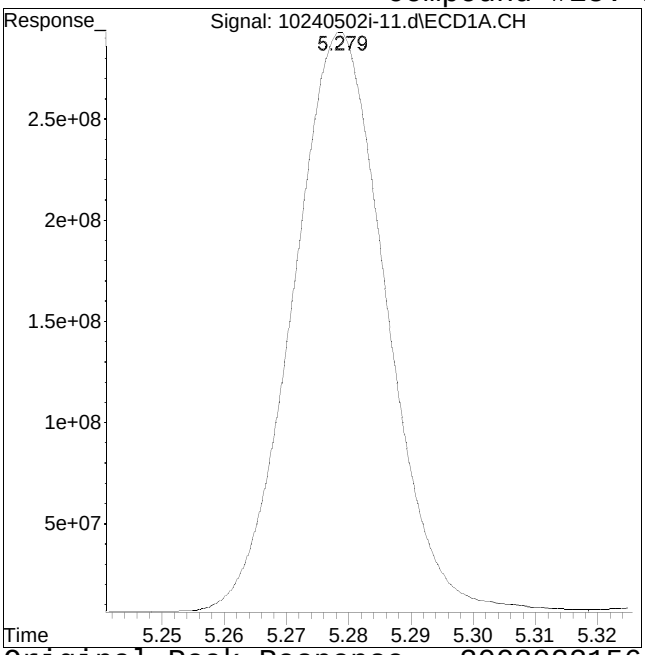


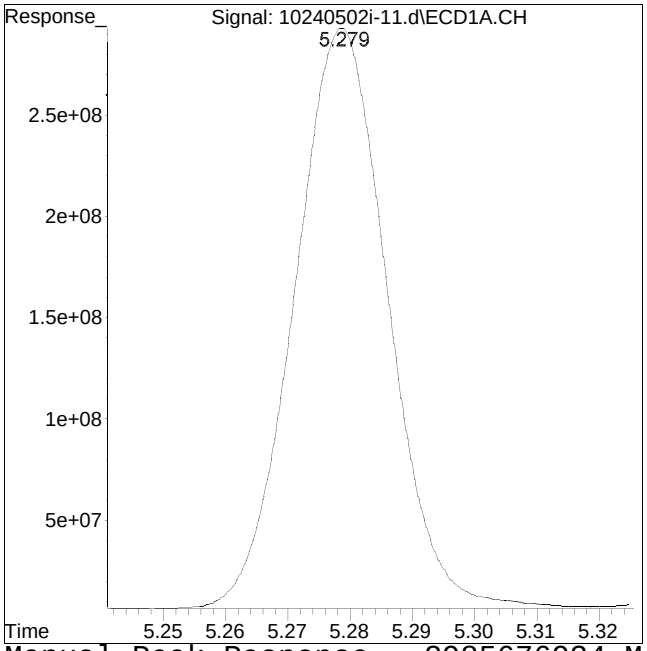
Original Peak Response = 830395592 Manual Peak Response = 828143188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #25: Endosulfan Sulfate



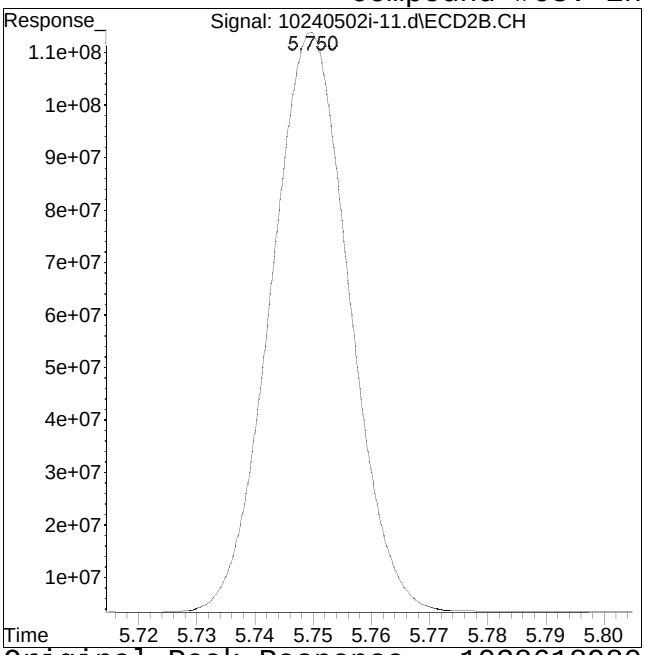


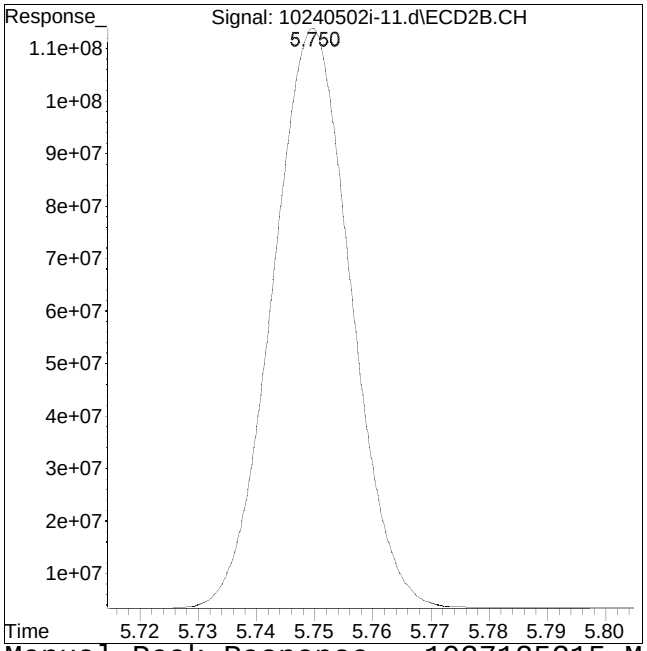
Original Peak Response = 3003023156 Manual Peak Response = 2985676934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #63: Endosulfan Sulfate #2



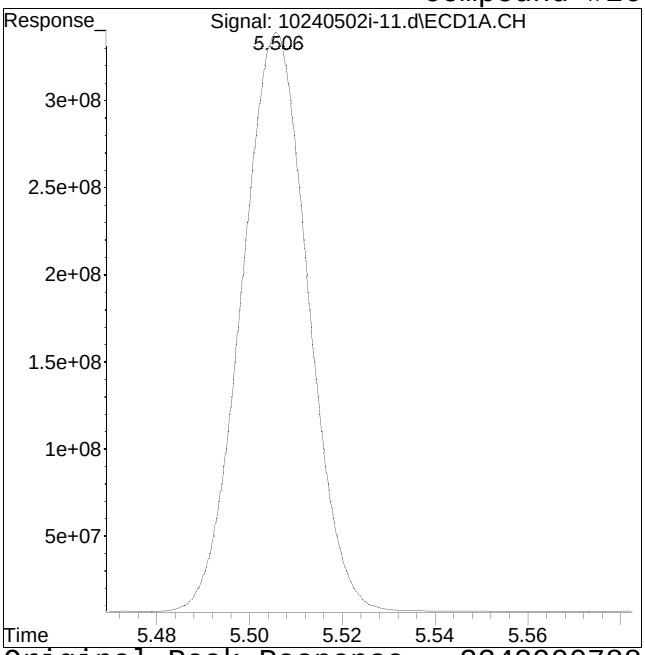


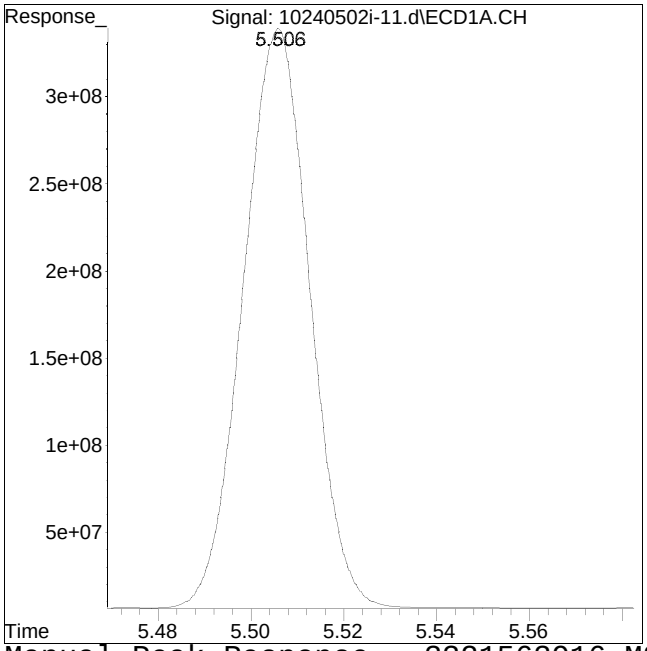
Original Peak Response = 1038618980 Manual Peak Response = 1037125215 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #26: Endrin Ketone



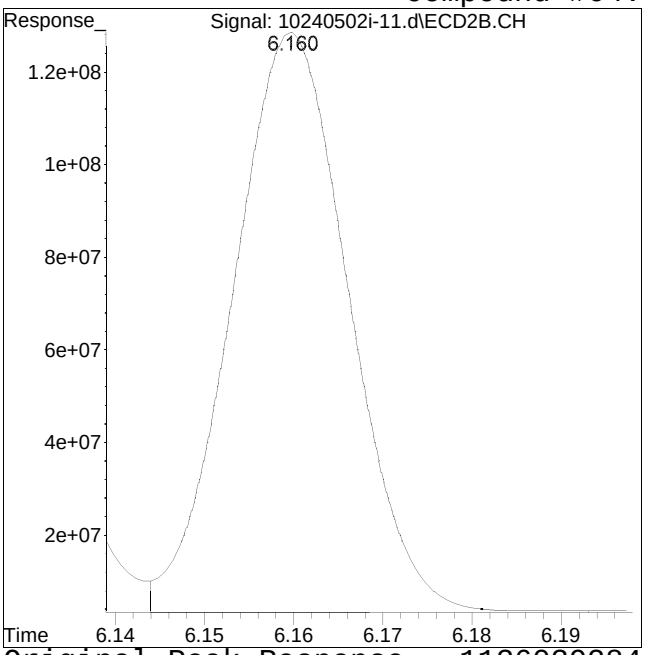


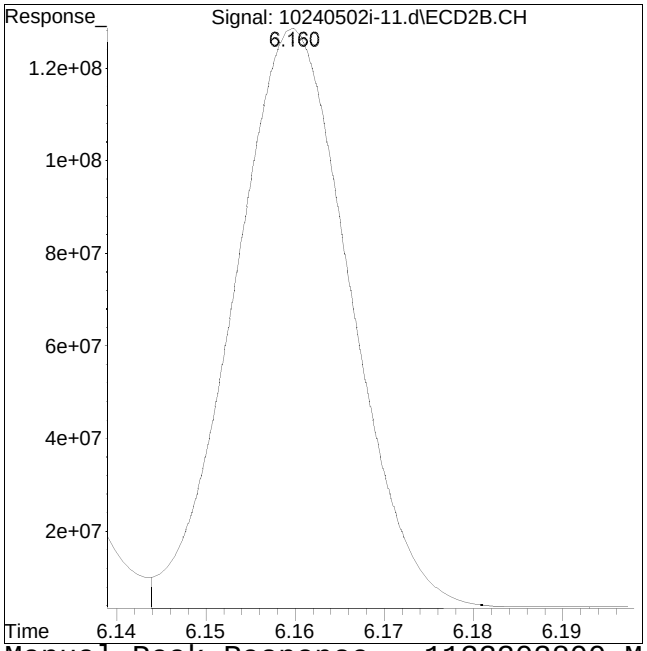
Original Peak Response = 3343900788 Manual Peak Response = 3321563916 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #64: Endrin Ketone #2



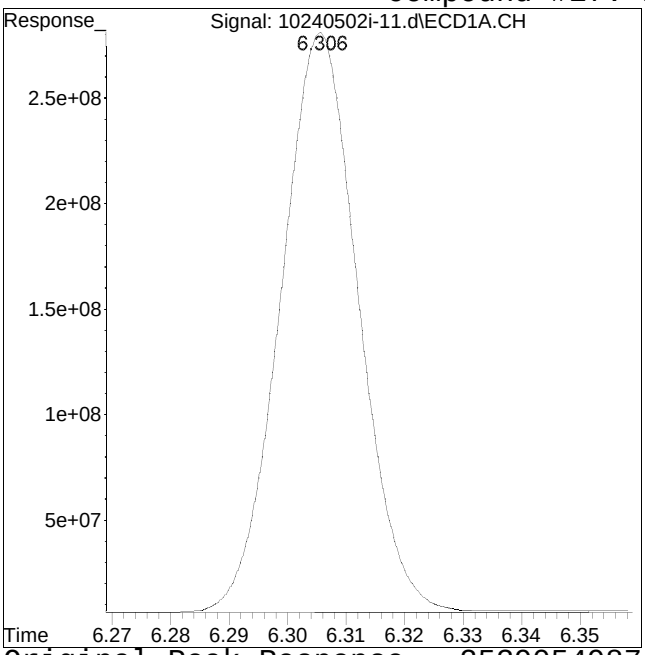


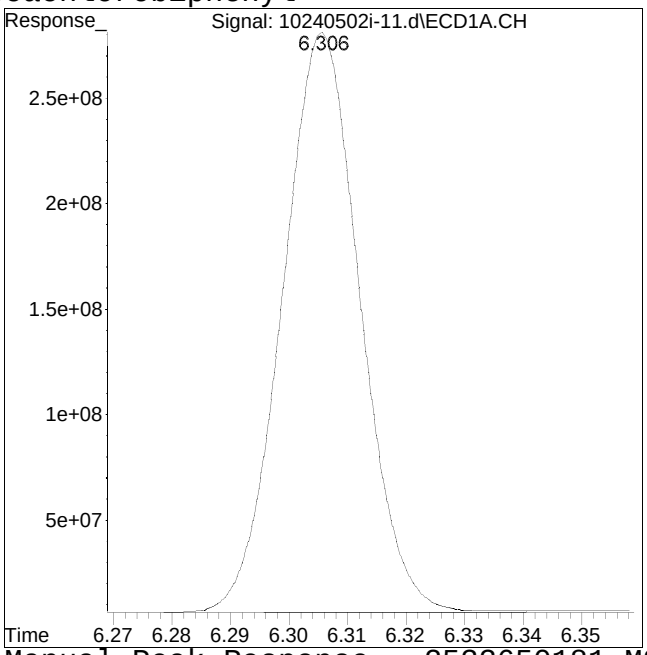
Original Peak Response = 1136039284 Manual Peak Response = 1133303800 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #27: Decachlorobiphenyl



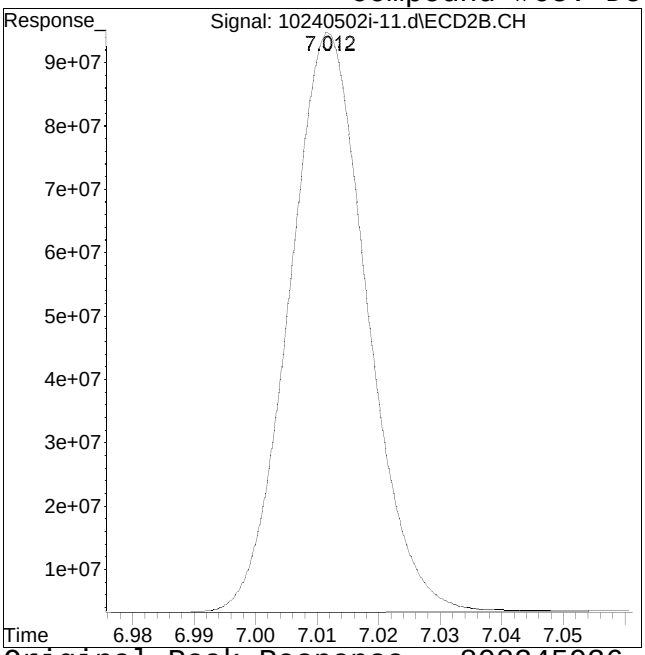


Original Peak Response = 2539054987 Manual Peak Response = 2533650181 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

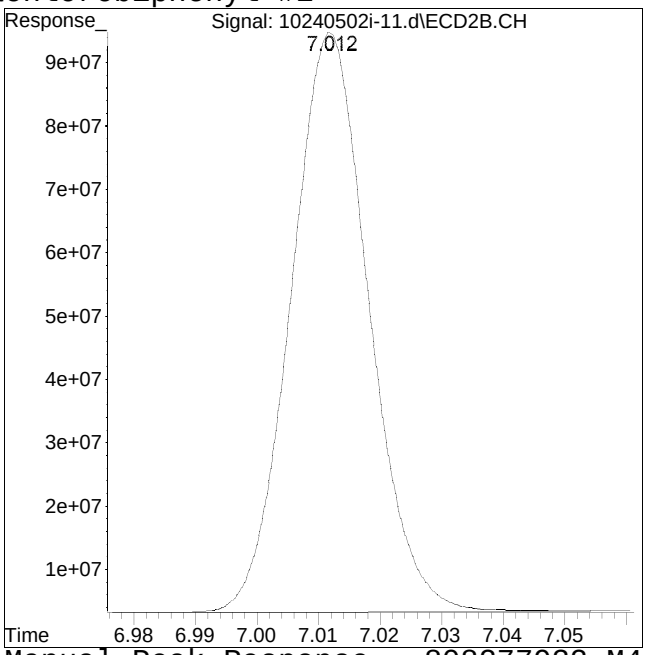
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 808345936



Manual Peak Response = 808277932 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.318	1.429	397.9E6	146.2E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.663	1.921	6278.9E6	2086.3E6	363.449M4	379.421
		Spiked Amount 50.000	Range 30 - 150		Recovery =		726.90%#	758.84%#
27)	s	Decachlorobi	6.305	7.010	5054.4E6	1607.9E6	341.537M3	330.531M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		683.07%#	661.06%#
		Target Compounds						
3)	t	Hexachlorobe	1.877	2.252	6766.6E6	2308.2E6	366.558M4	365.264
4)	t	alpha-BHC	1.977	2.351	10302.0E6	3471.2E6	428.533M4	443.345M3
5)	t	gamma-BHC (l	2.180	2.645	9296.1E6	3131.6E6	408.017M3	425.830M4
6)	t	beta-BHC	2.235	2.709	3656.2E6	1284.6E6	361.517M4	369.298M4
7)	t	delta-BHC	2.364	2.984	9554.5E6	3264.5E6	425.017M4	442.069M4
8)	t	Heptachlor	2.527	3.053	7906.3E6	2811.1E6	365.389M4	384.952M4
9)	t	Aldrin	2.770	3.381	7826.4E6	2742.5E6	383.517M4	412.283M4
10)	t	Alachlor	2.891	3.258	866.0E6	337.5E6	350.430M4	290.381M4
11)	t	Chlorpyrifos	2.982	3.620	2860.6E6	1144.9E6	383.618M4	326.748M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.316	4.010	6937.3E6	2485.4E6	356.867M4	373.748M4
13)	t	gamma-Chlord	3.439	4.233	6810.0E6	2349.6E6	382.950M4	397.206M4
14)	t	alpha-Chlord	3.574	4.398	7512.1E6	2586.2E6	371.873M4	388.735M4
15)	t	4,4'-DDE	3.670	4.588	7539.2E6	2601.5E6	394.088M4	422.913M3
16)	t	Endosulfan I	3.712	4.458	6453.9E6	2281.0E6	347.399M4	368.614M3
17)	t	Dieldrin	3.972	4.743	7229.7E6	2486.0E6	378.473M4	401.435M4
18)	t	Endrin	4.227	5.035	7363.0E6	2497.2E6	375.271M4	393.025M4
19)	t	4,4'-DDD	4.335	5.151	6133.9E6	2134.5E6	394.418M4	431.173M3
20)	t	Endosulfan I	4.467	5.230	4667.3E6	1611.3E6	275.607M4	289.589M4
21)	t	4,4'-DDT	4.627	5.425	6753.8E6	2298.6E6	392.422M4	409.493M4
22)	t	Endrin Aldeh	4.885	5.523	5140.7E6	1798.5E6	379.053M4	411.983M4
23)	t	Methoxychlor	5.114	5.983	3027.7E6	1098.9E6	389.273M4	356.004M4
24)	t	Mirex	5.171	6.127	5142.2E6	1660.0E6	403.184M4	339.036M4
25)	t	Endosulfan S	5.278	5.749	5902.4E6	2050.1E6	351.465M4	369.609M4
26)	t	Endrin Keton	5.505	6.159	6442.6E6	2221.3E6	349.765M4	367.554M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

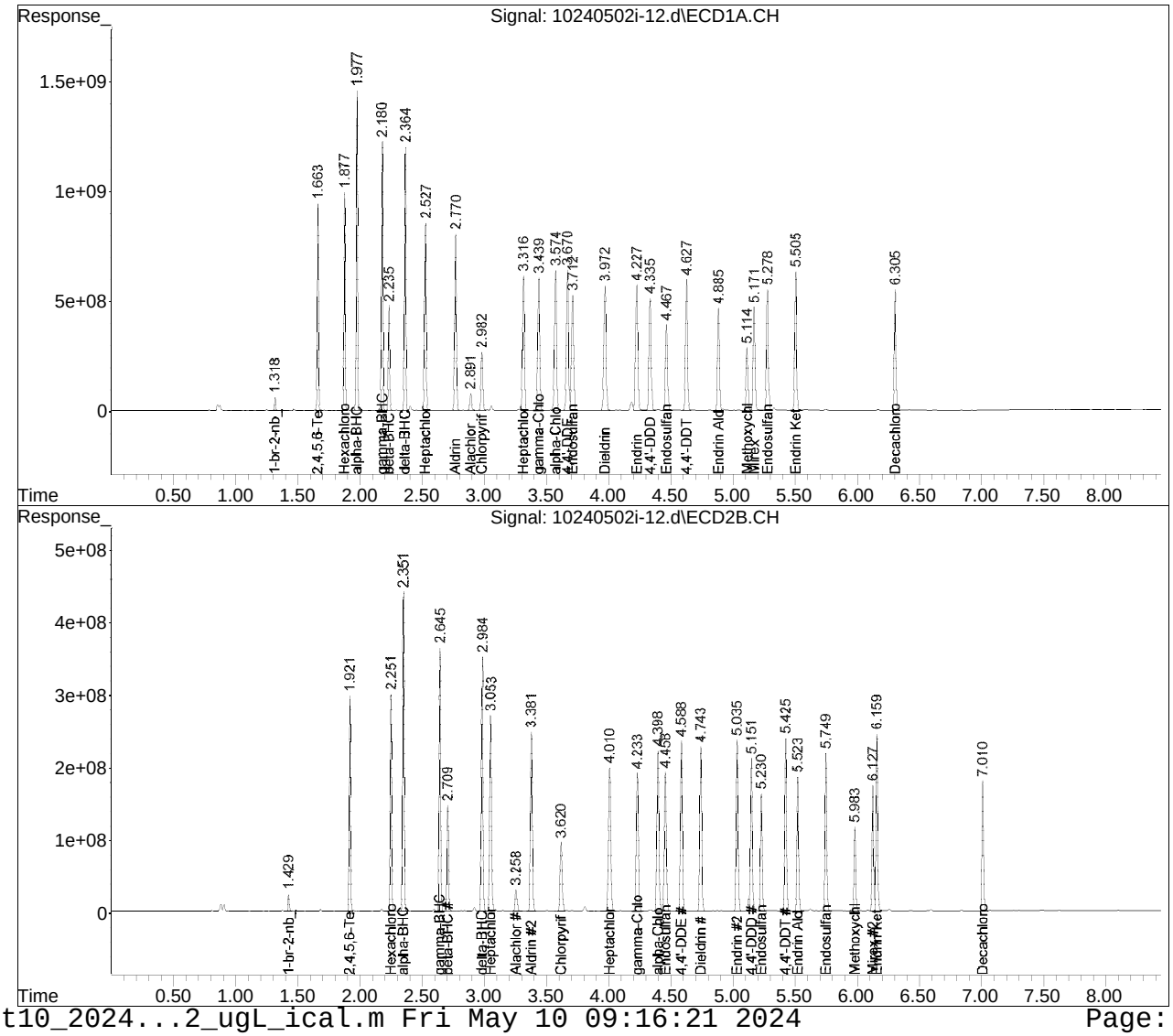
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

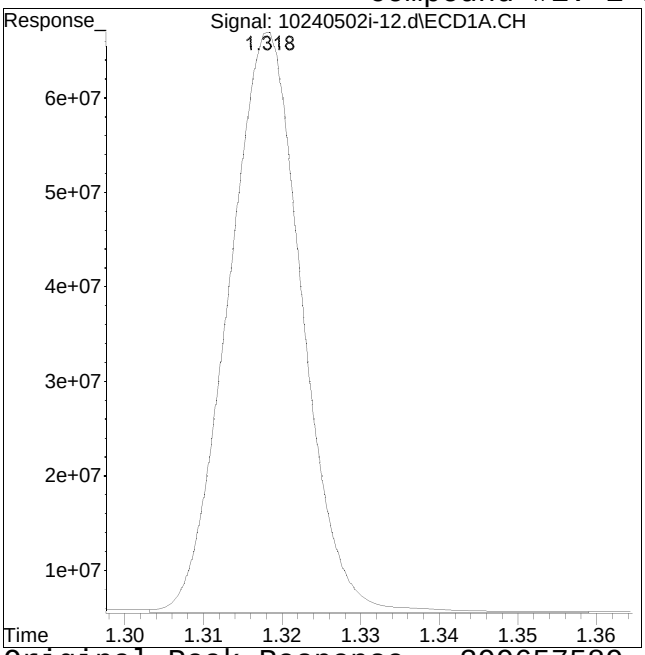


Manual Integration Report

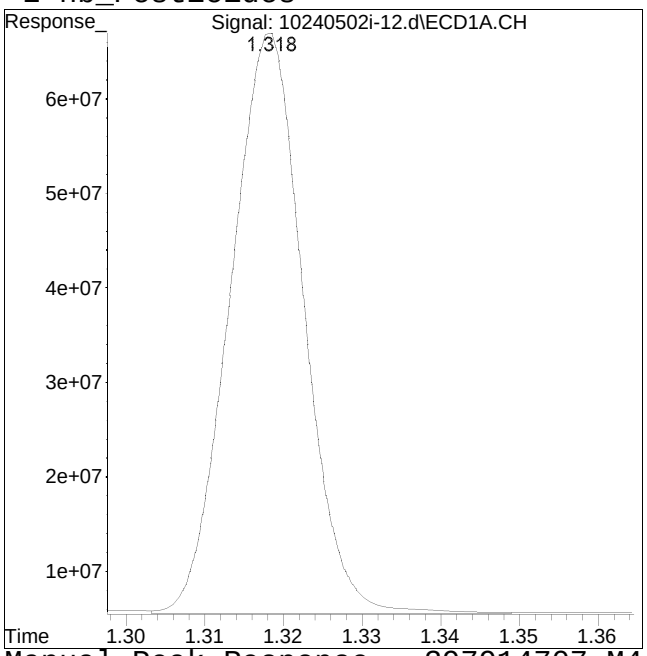
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 399657589



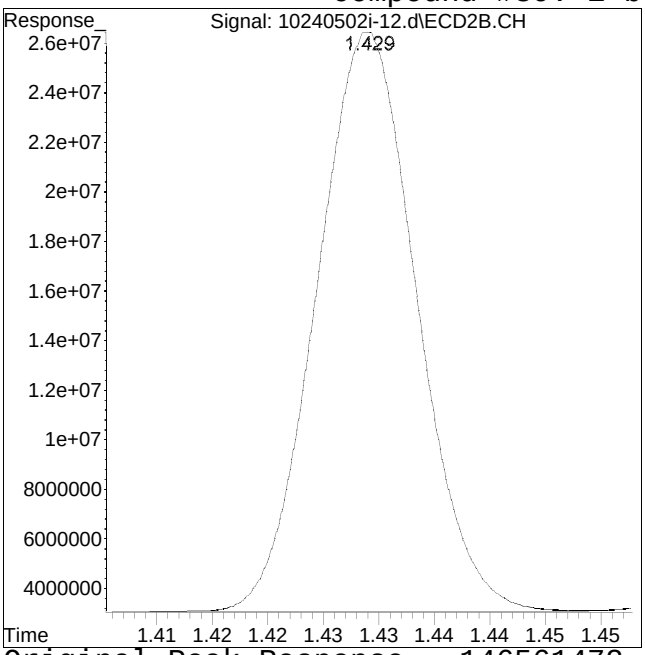
Manual Peak Response = 397914707 M4

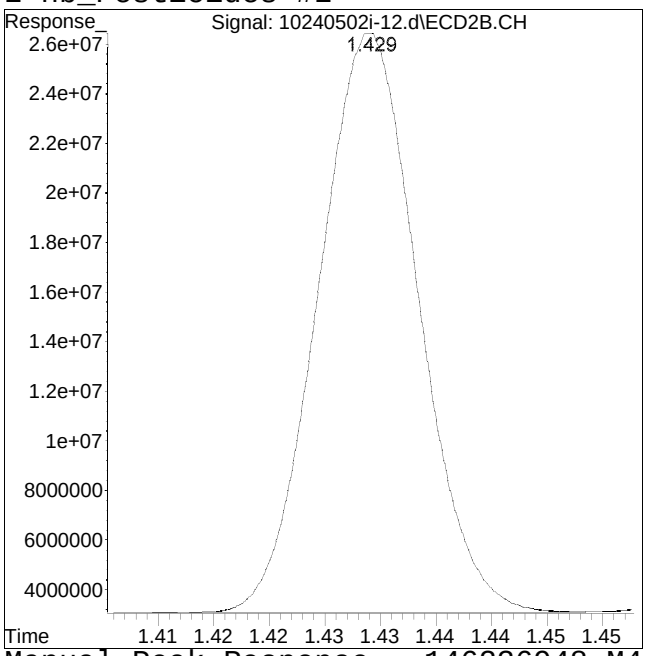
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



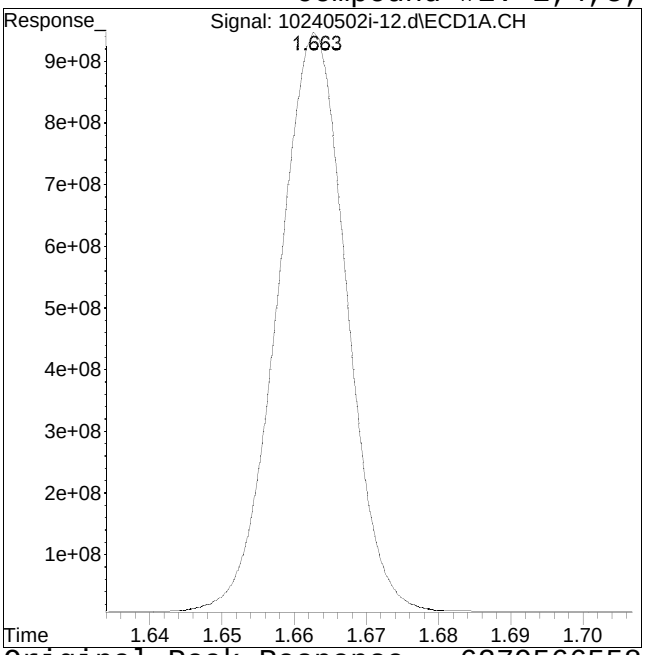


Original Peak Response = 146561472 Manual Peak Response = 146236948 M4
M4 = Poor automated baseline construction.

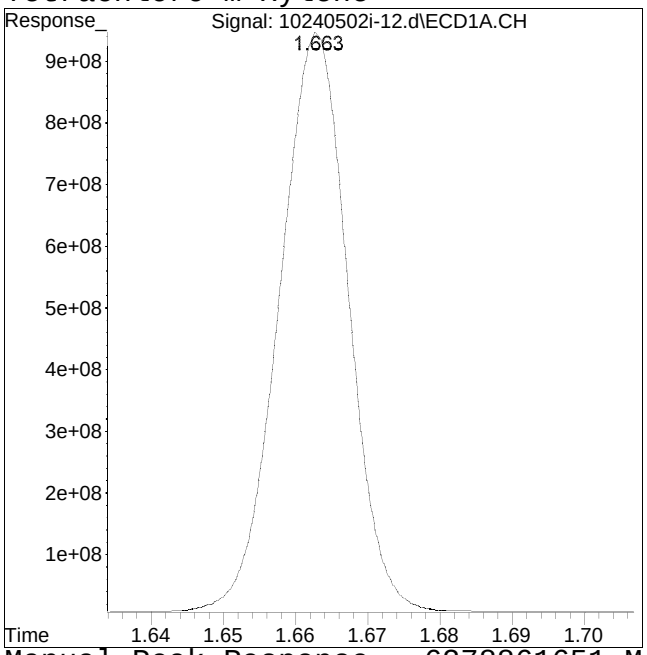
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 6279566558



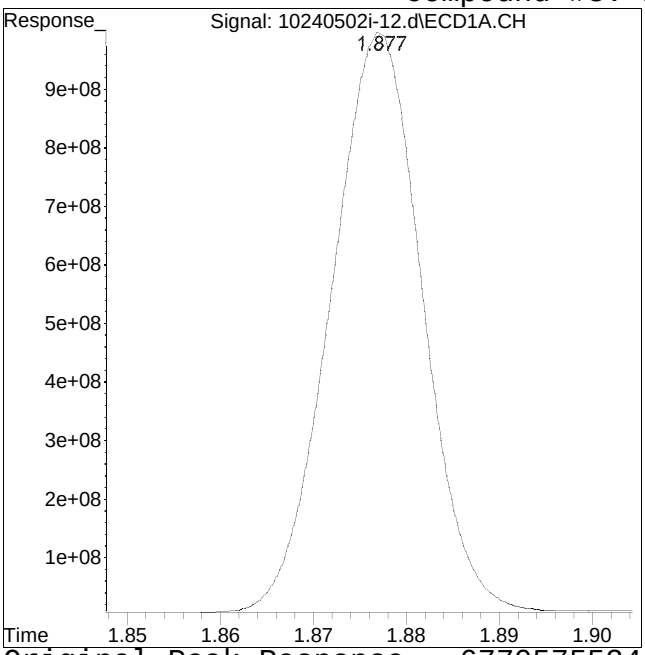
Manual Peak Response = 6278861651 M4
M4 = Poor automated baseline construction.

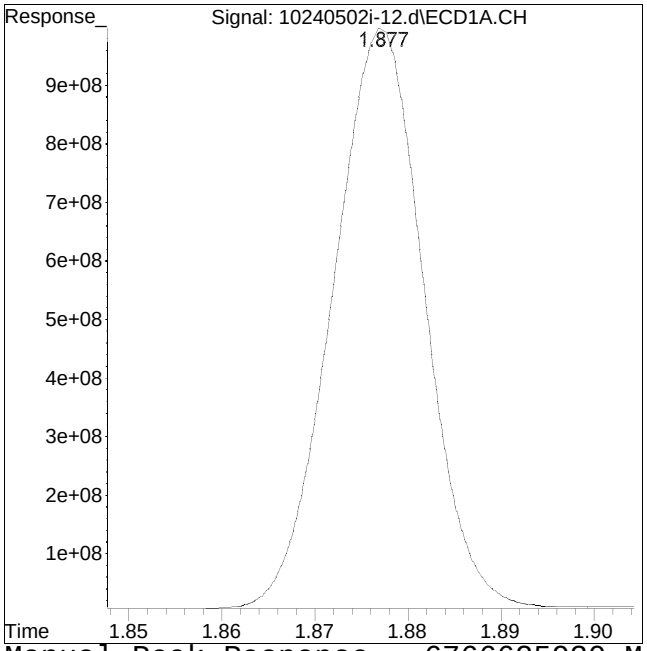
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #3: Hexachlorobenzene



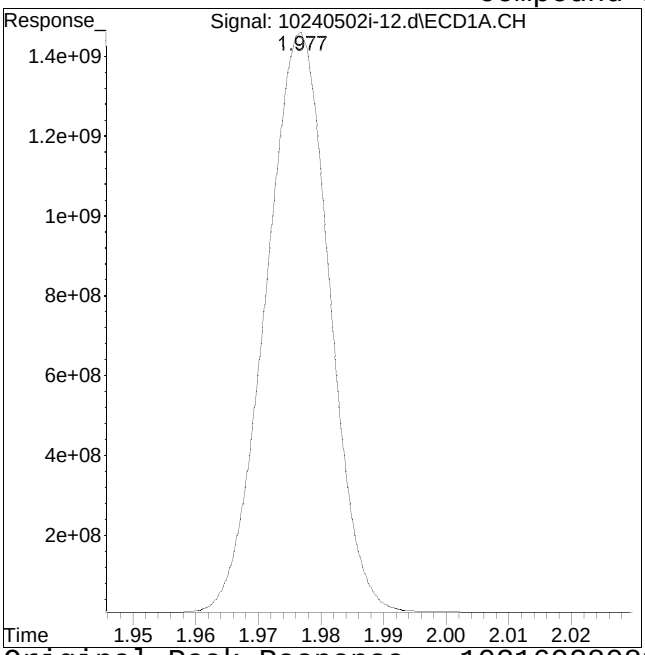


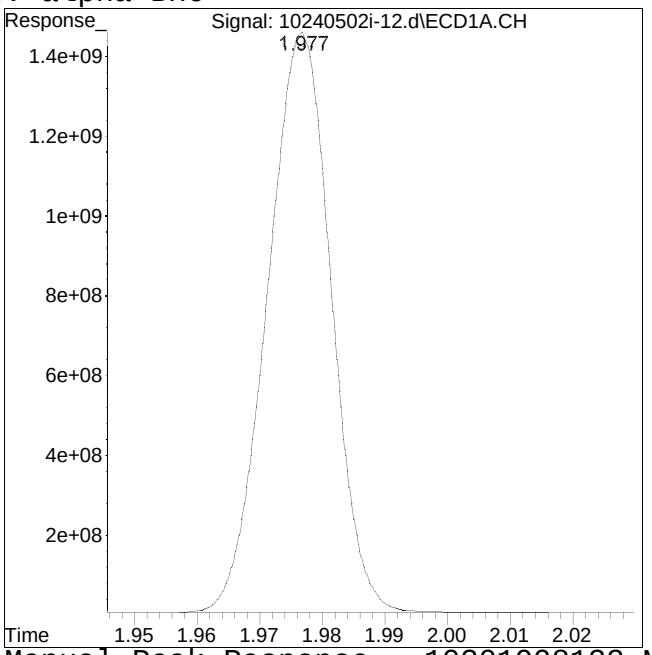
Original Peak Response = 6770575524 Manual Peak Response = 6766625930 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #4: alpha-BHC



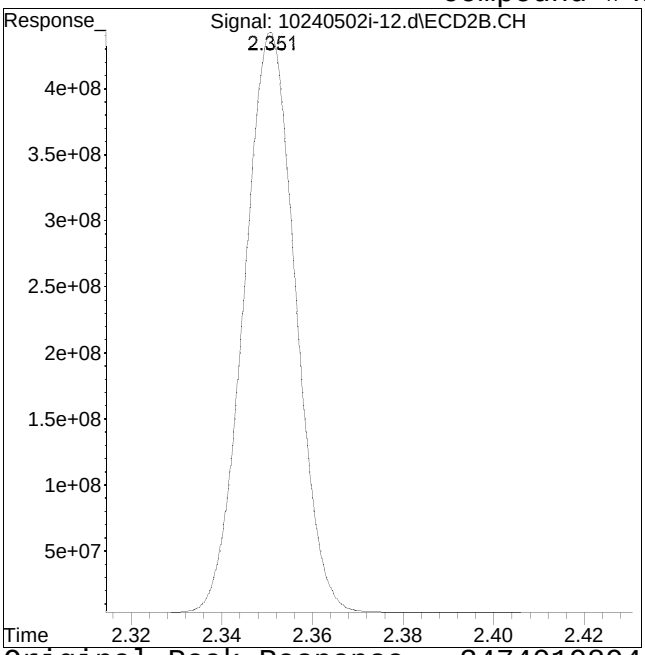


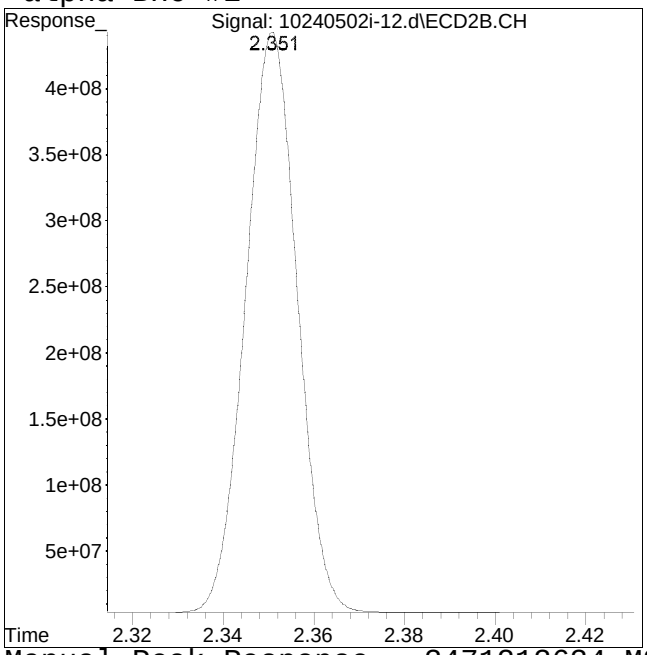
Original Peak Response = 10316928081 Manual Peak Response = 10301998133 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #42: alpha-BHC #2



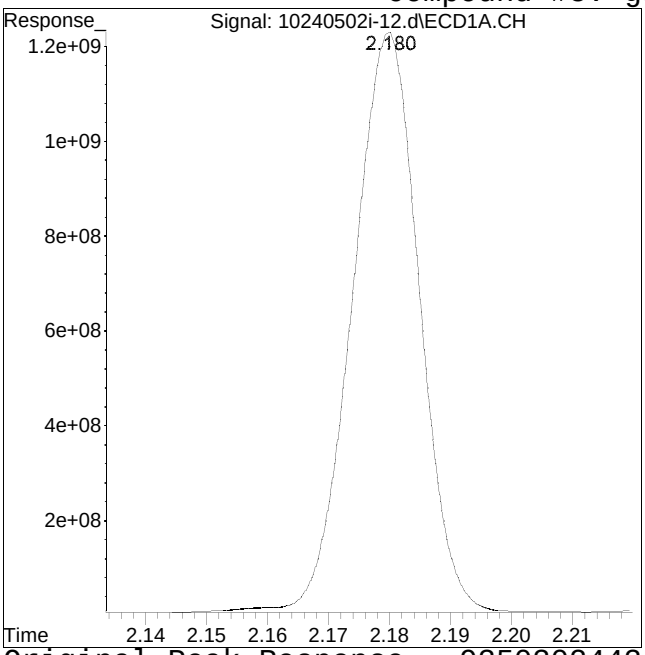


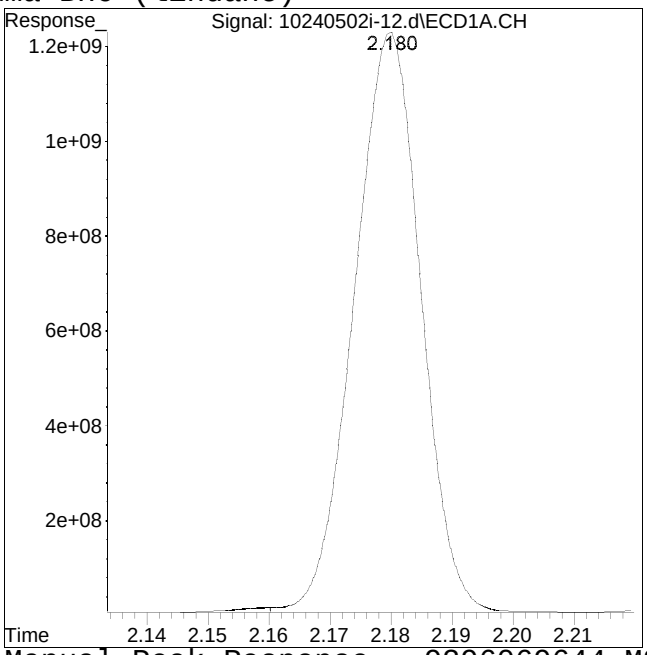
Original Peak Response = 3474019894 Manual Peak Response = 3471213634 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #5: gamma-BHC (lindane)



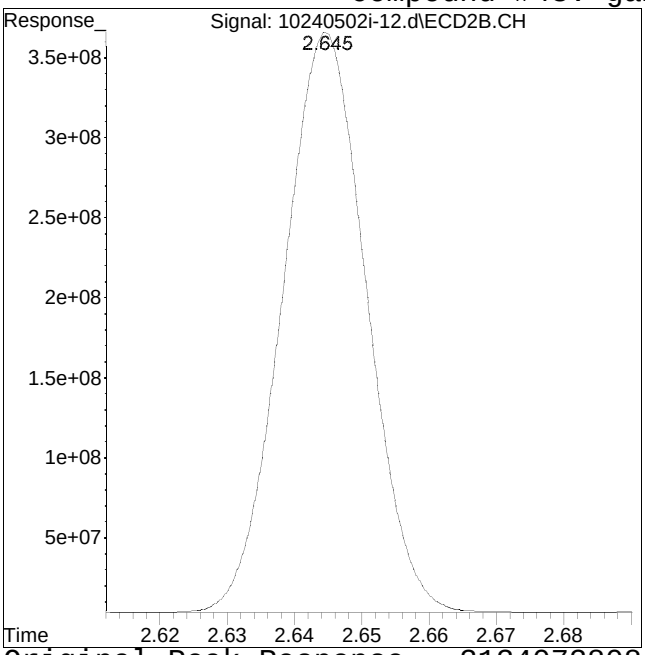


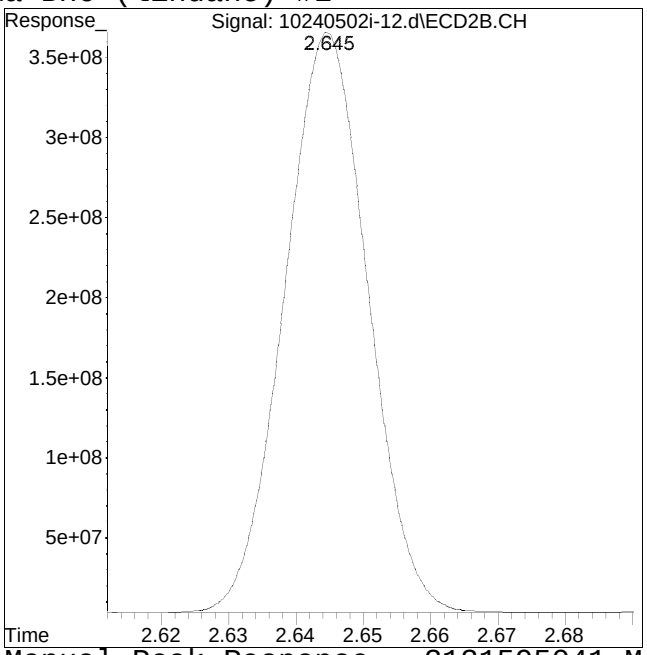
Original Peak Response = 9350302443 Manual Peak Response = 9296069644 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #43: gamma-BHC (lindane) #2



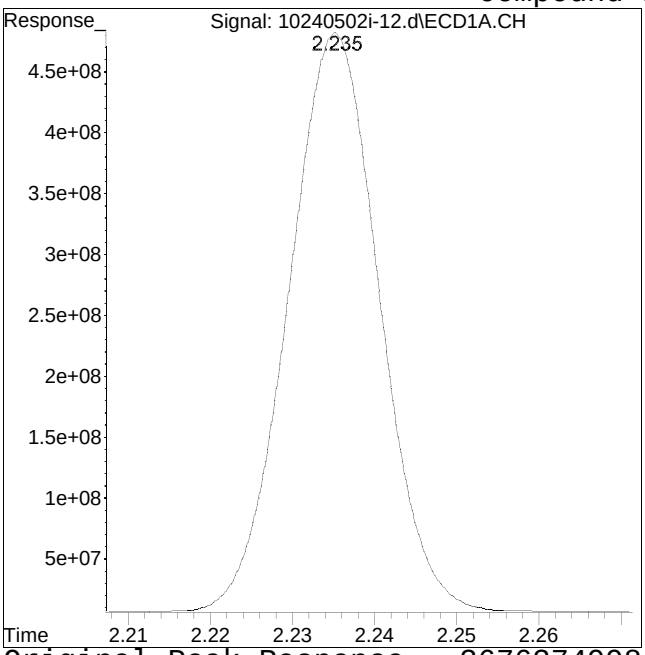


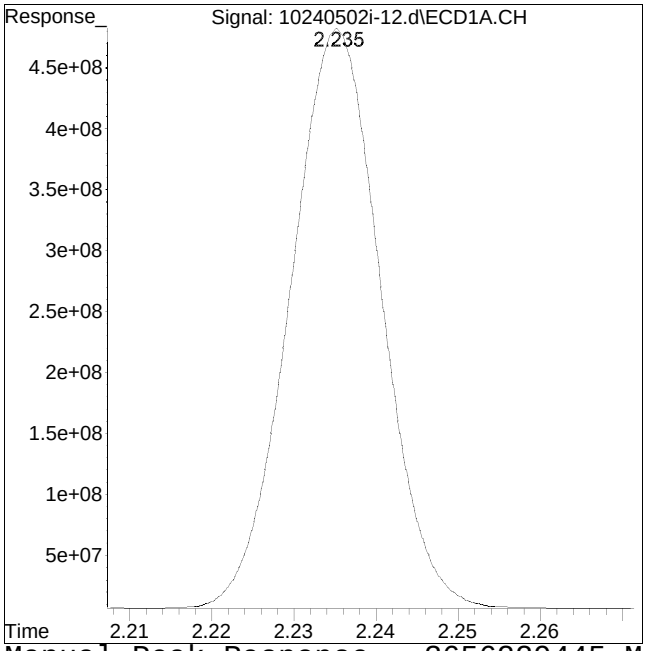
Original Peak Response = 3134073808 Manual Peak Response = 3131595041 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #6: beta-BHC





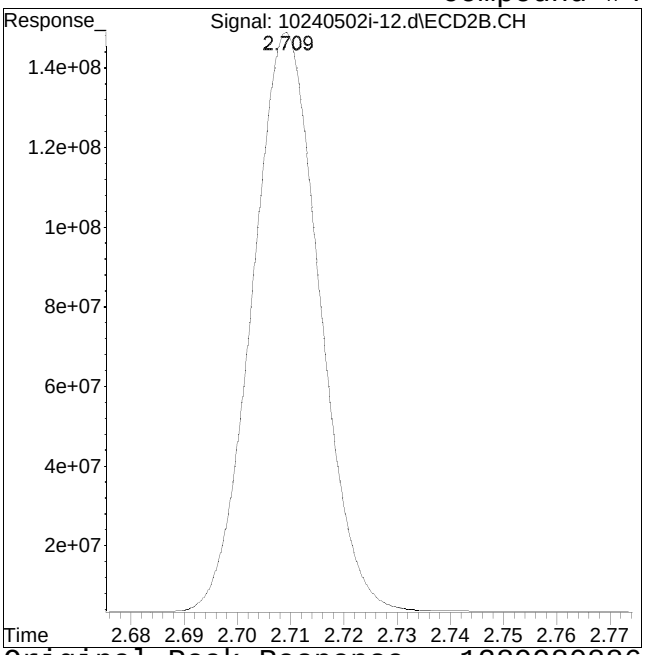
Original Peak Response = 3676374998 Manual Peak Response = 3656229445 M4
M4 = Poor automated baseline construction.

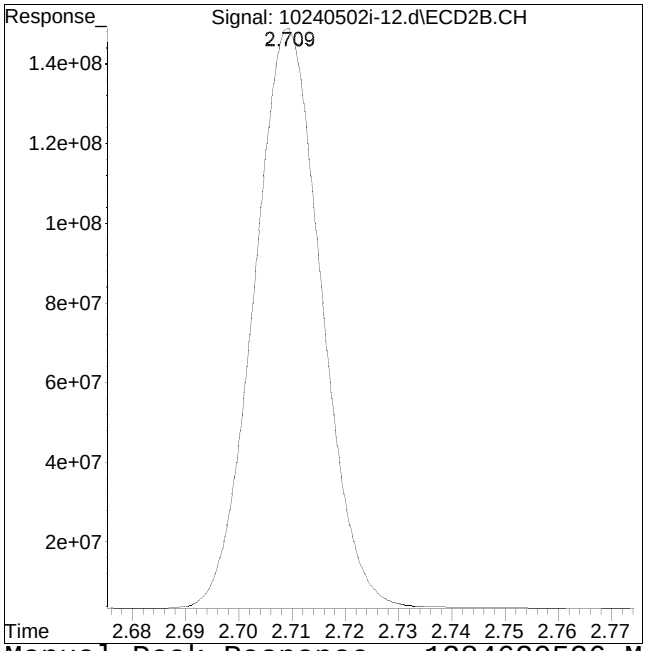
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #44: beta-BHC #2



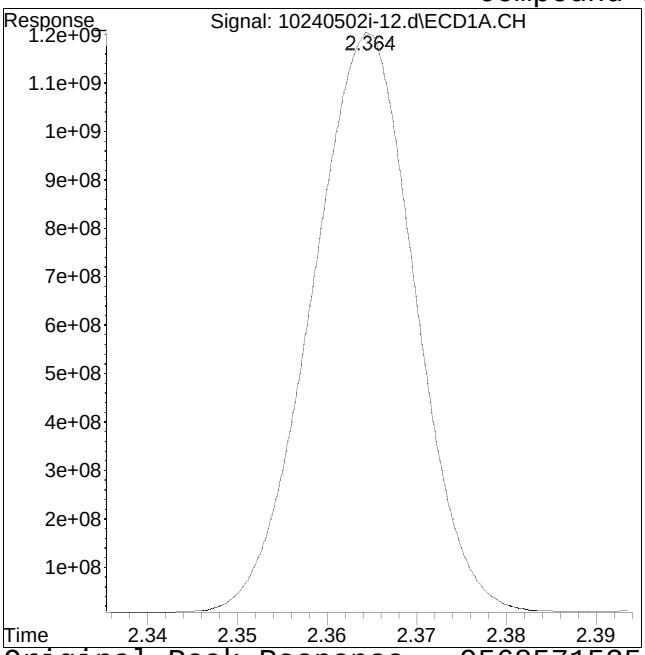


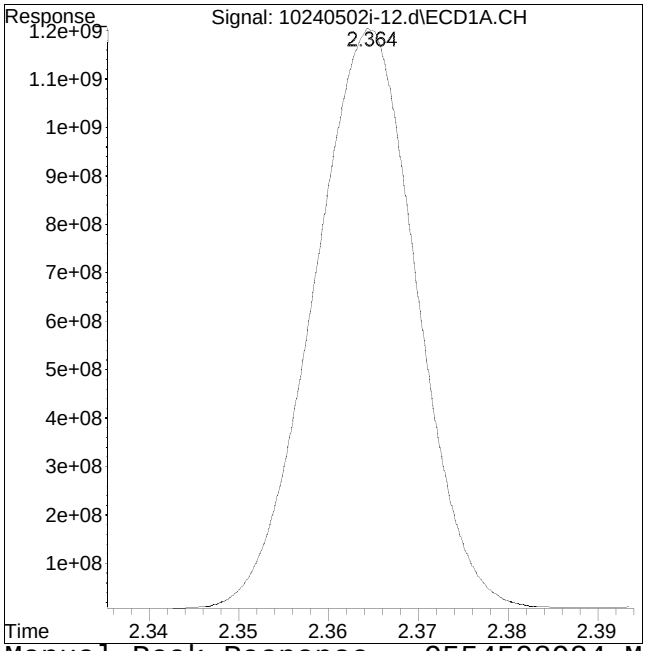
Original Peak Response = 1289980886 Manual Peak Response = 1284620526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #7: delta-BHC



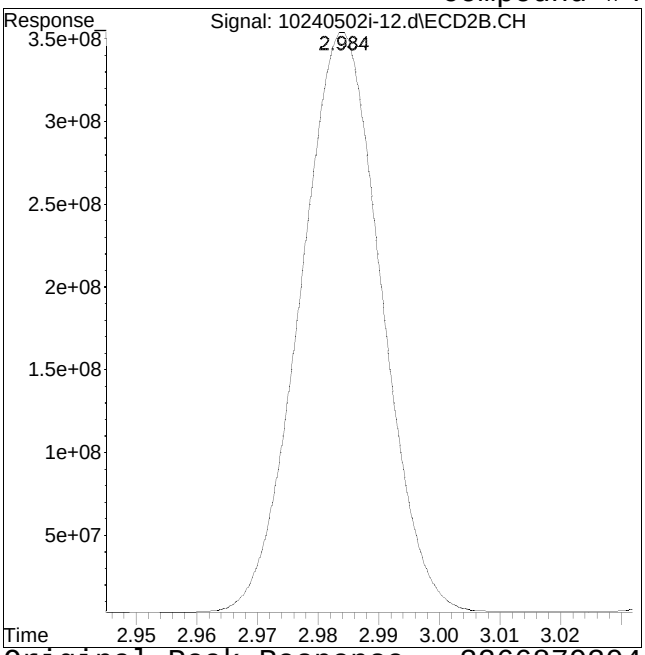


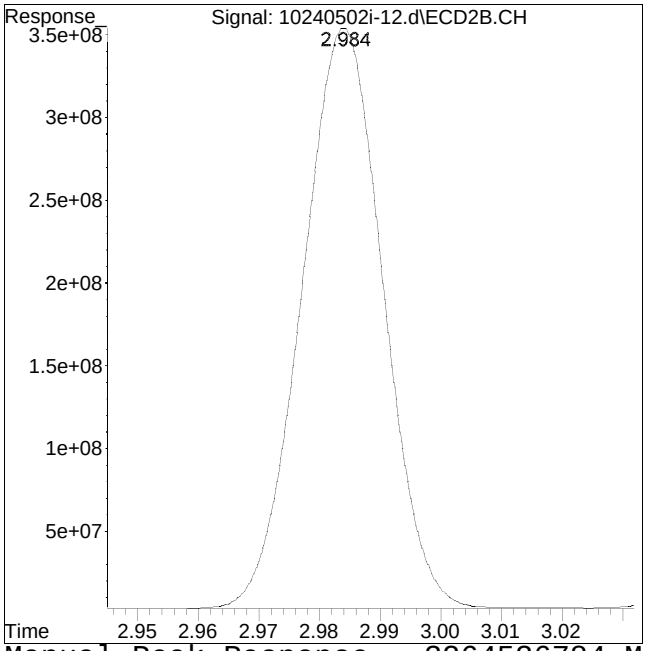
Original Peak Response = 9568571535 Manual Peak Response = 9554508984 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #45: delta-BHC #2



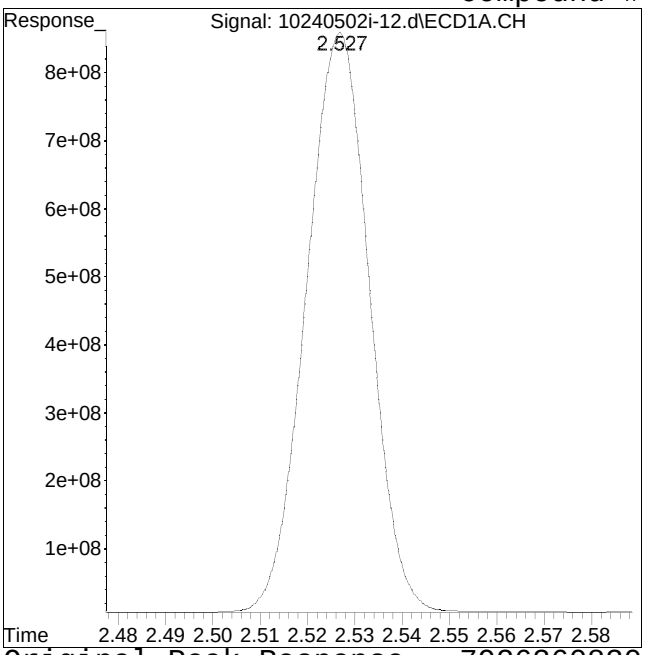


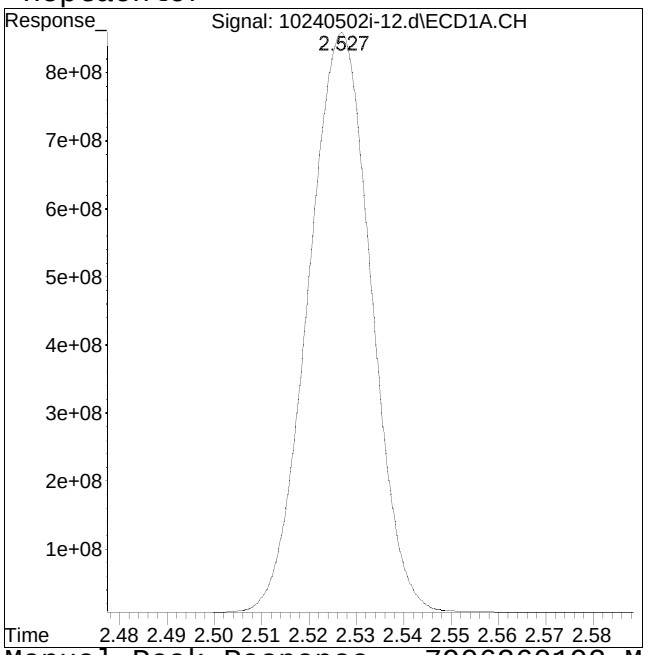
Original Peak Response = 3266879304 Manual Peak Response = 3264536784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #8: Heptachlor



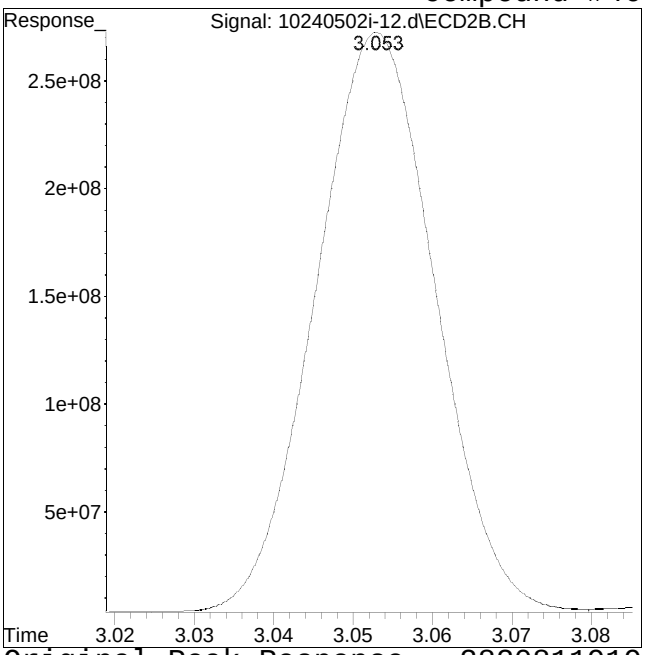


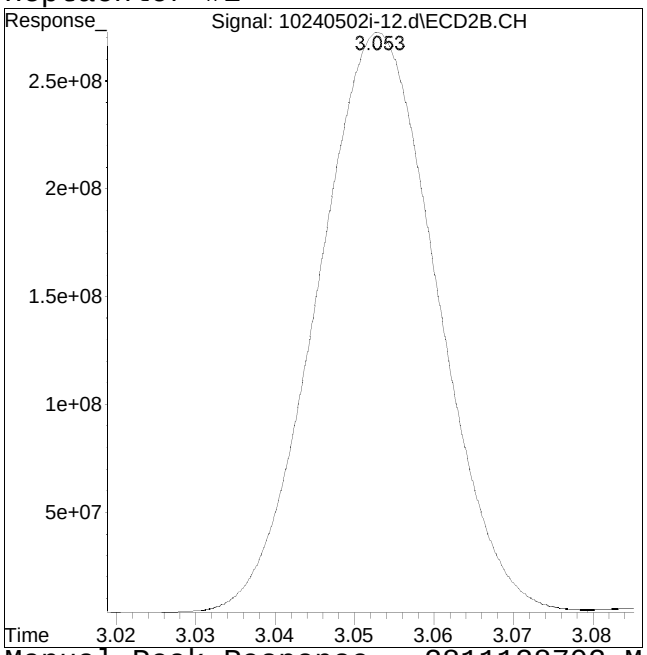
Original Peak Response = 7926360830 Manual Peak Response = 7906260192 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #46: Heptachlor #2





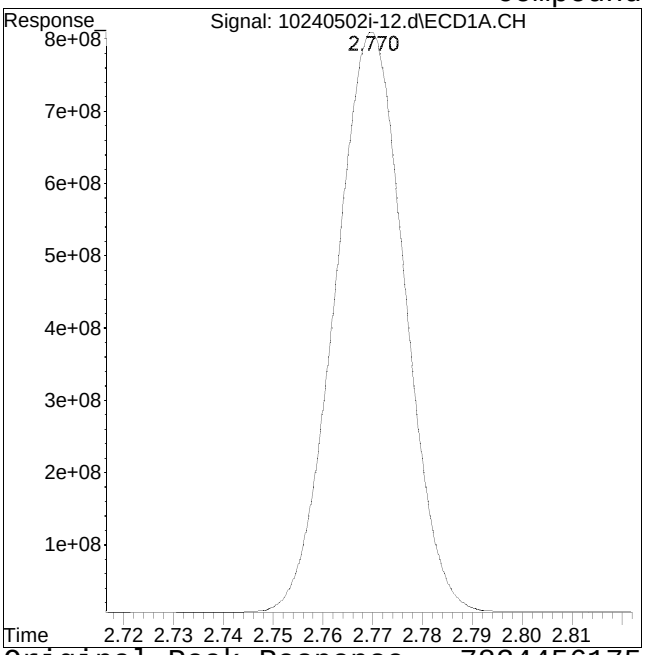
Original Peak Response = 2820811919 Manual Peak Response = 2811128702 M4
M4 = Poor automated baseline construction.

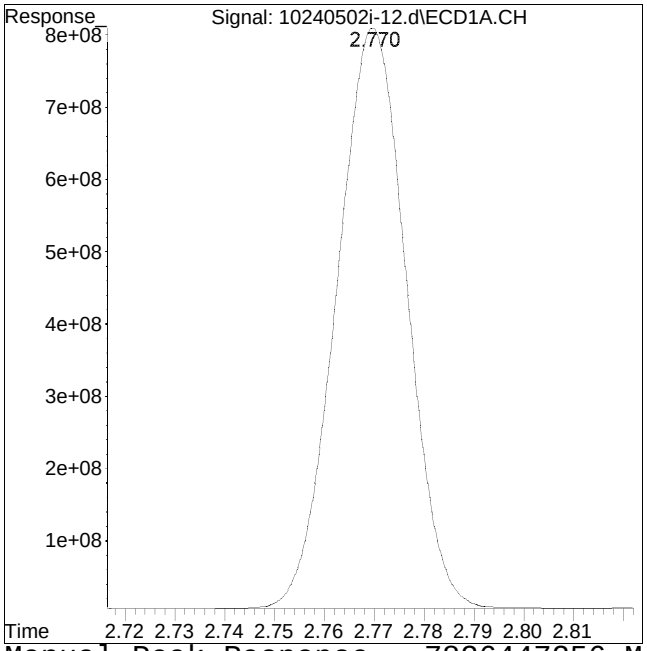
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #9: Aldrin





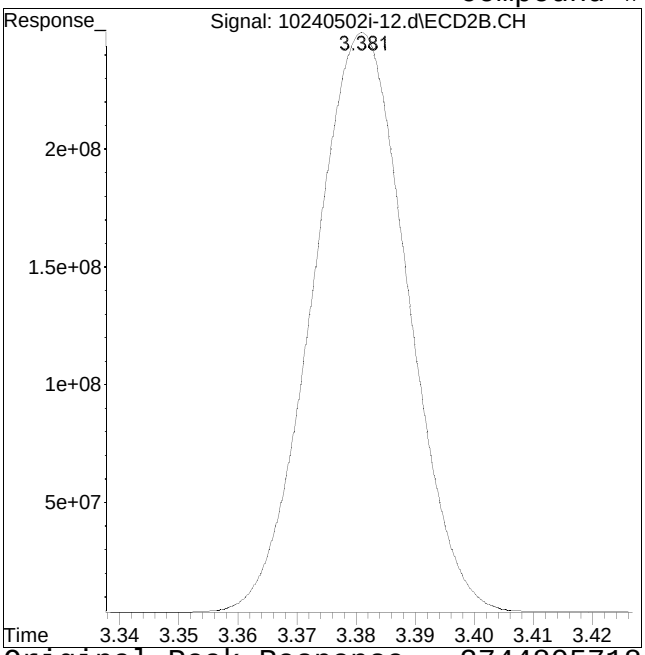
Original Peak Response = 7834456175 Manual Peak Response = 7826447256 M4
M4 = Poor automated baseline construction.

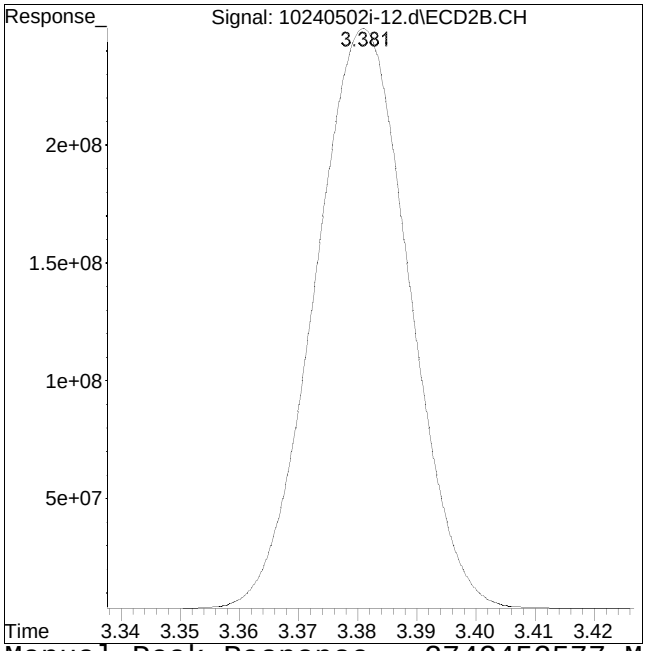
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #47: Aldrin #2



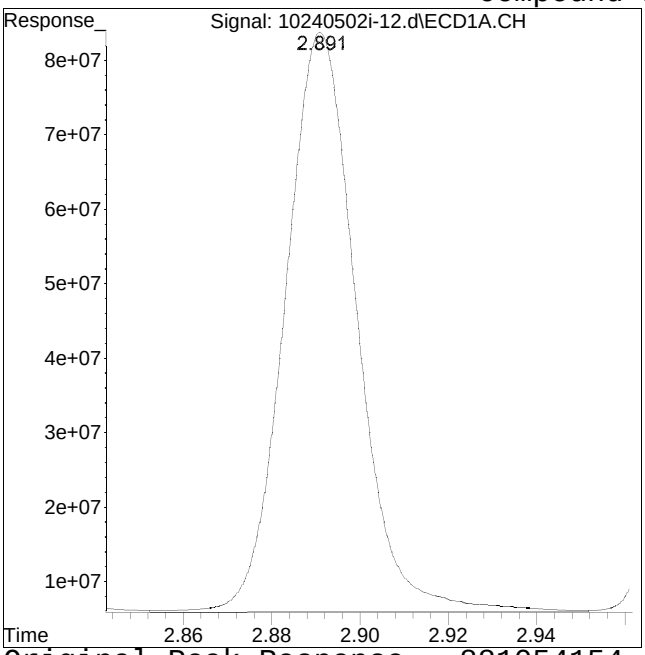


Original Peak Response = 2744805718 Manual Peak Response = 2742452577 M4
M4 = Poor automated baseline construction.

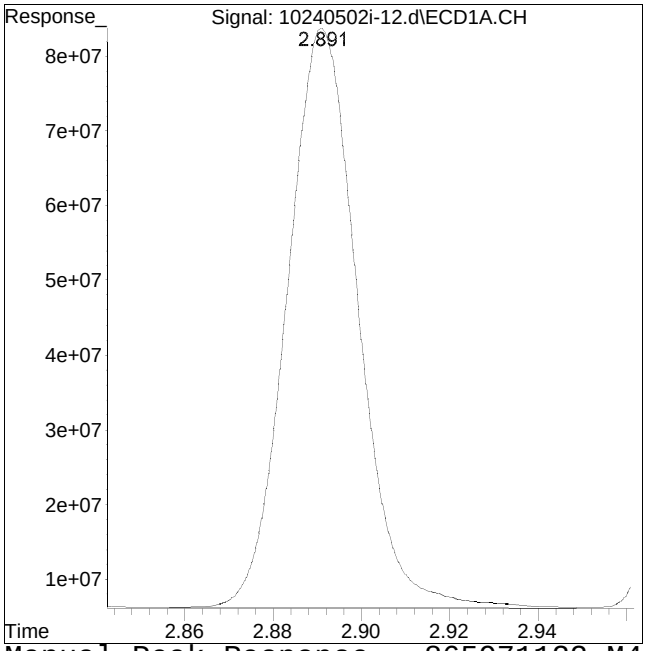
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #10: Alachlor



Original Peak Response = 881054154



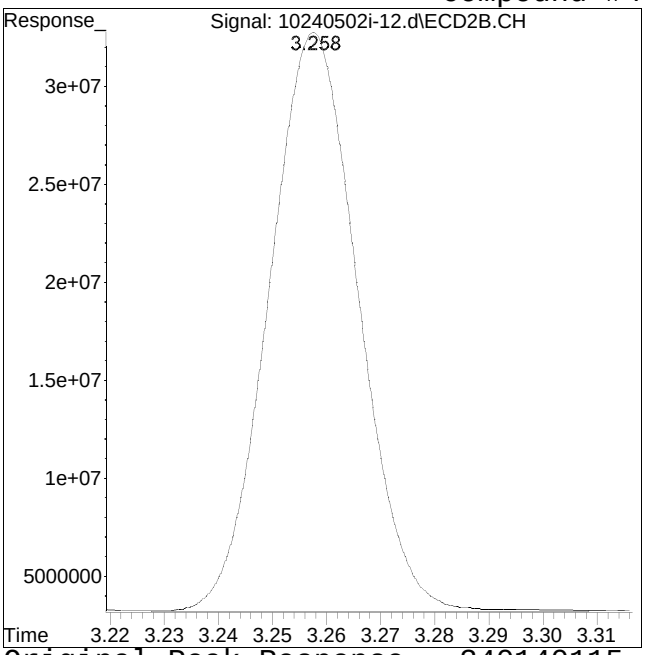
Manual Peak Response = 865971122 M4

M4 = Poor automated baseline construction.

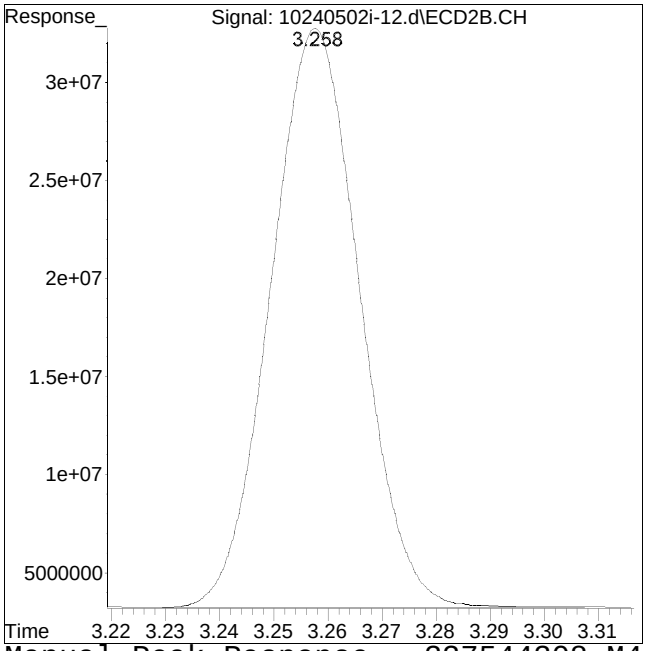
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #48: Alachlor #2



Original Peak Response = 340140115



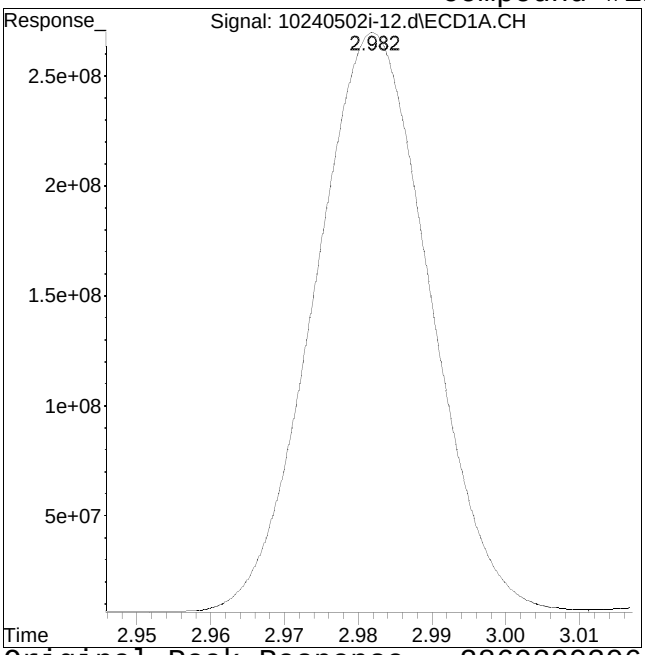
Manual Peak Response = 337544308 M4

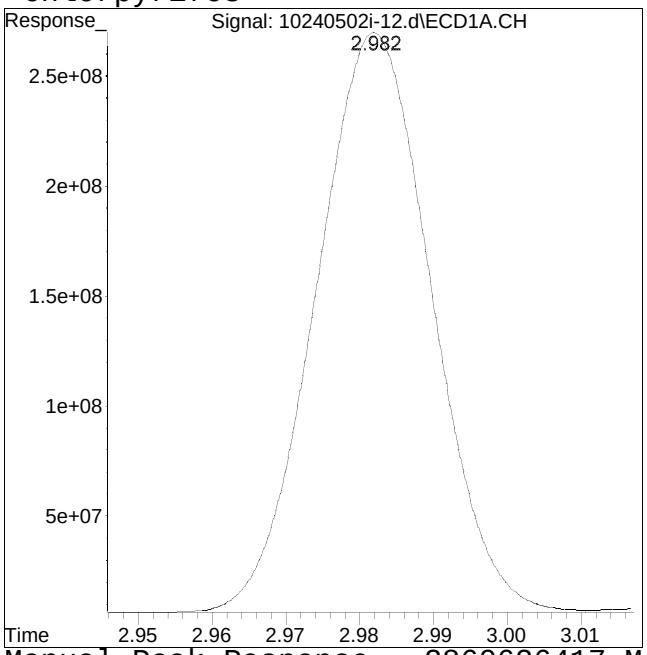
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #11: Chlorpyrifos



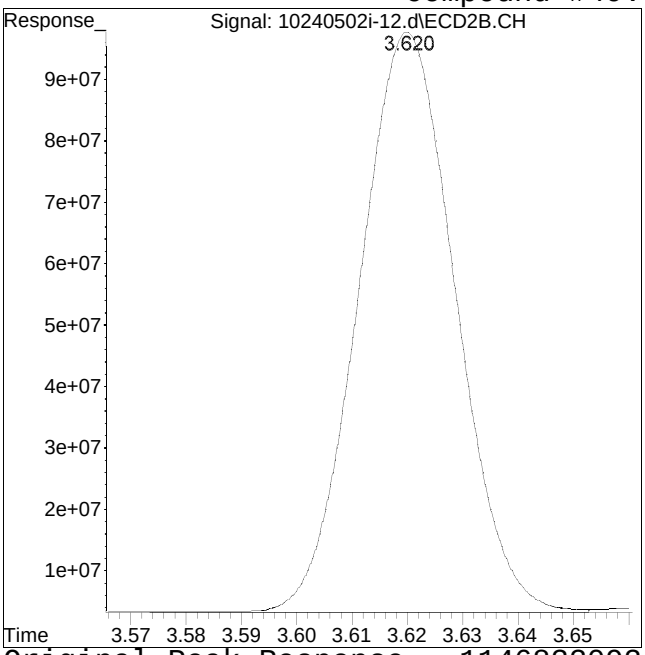


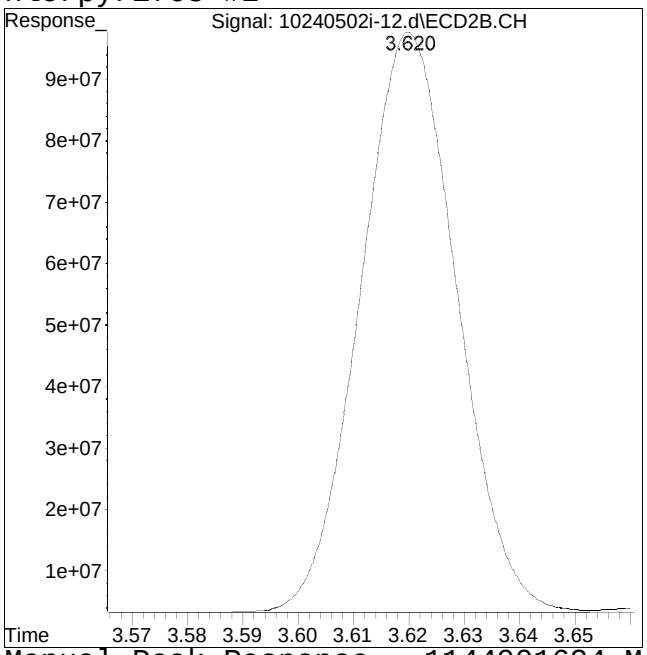
Original Peak Response = 2869299306 Manual Peak Response = 2860626417 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #49: Chlorpyrifos #2



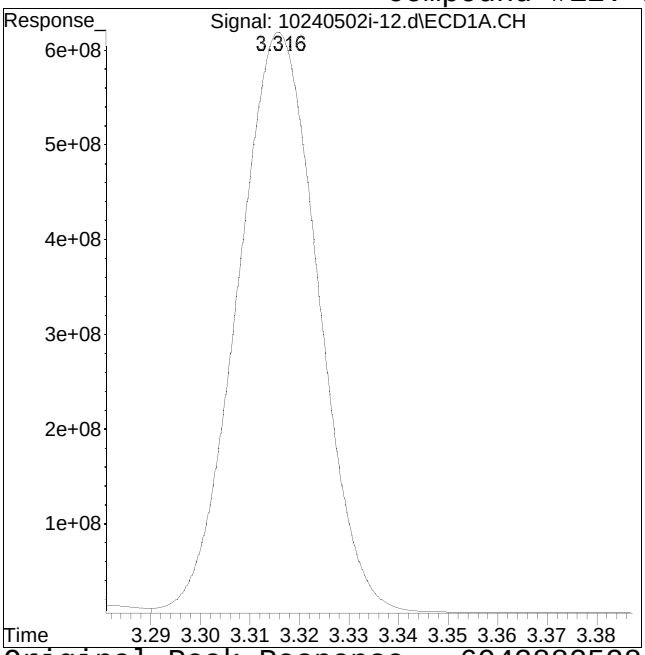


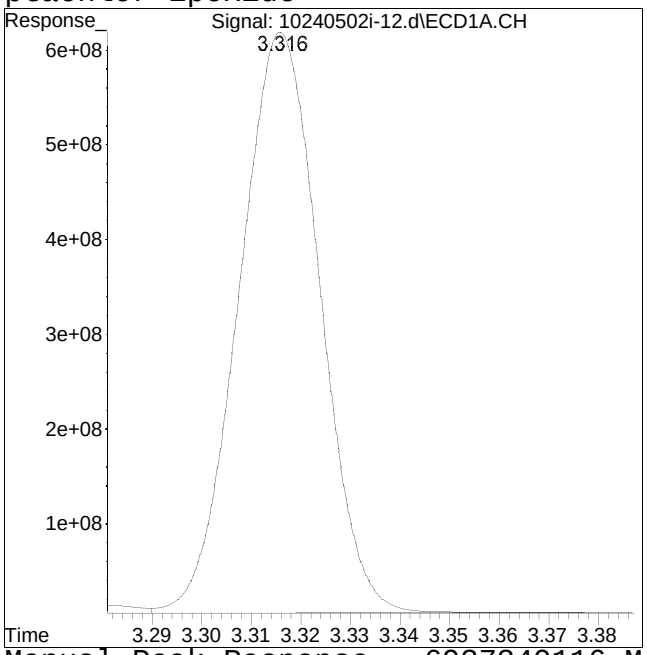
Original Peak Response = 1146833093 Manual Peak Response = 1144901624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #12: Heptachlor Epoxide





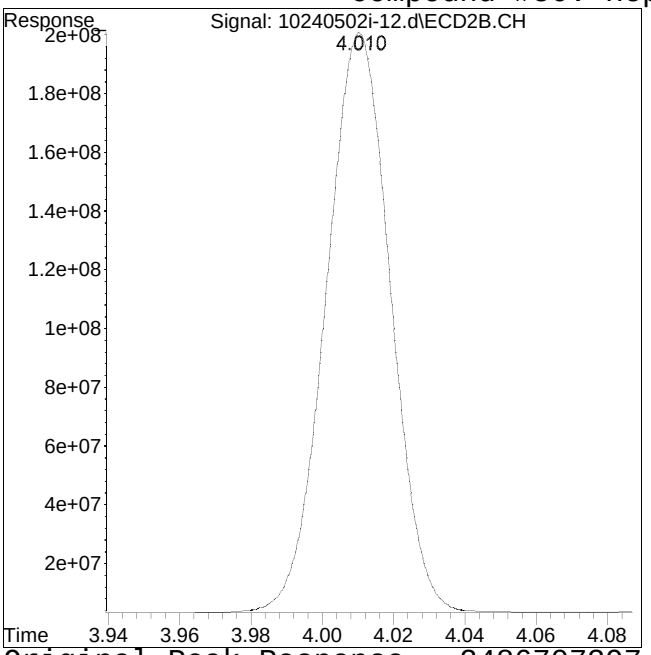
Original Peak Response = 6943882528 Manual Peak Response = 6937349116 M4
M4 = Poor automated baseline construction.

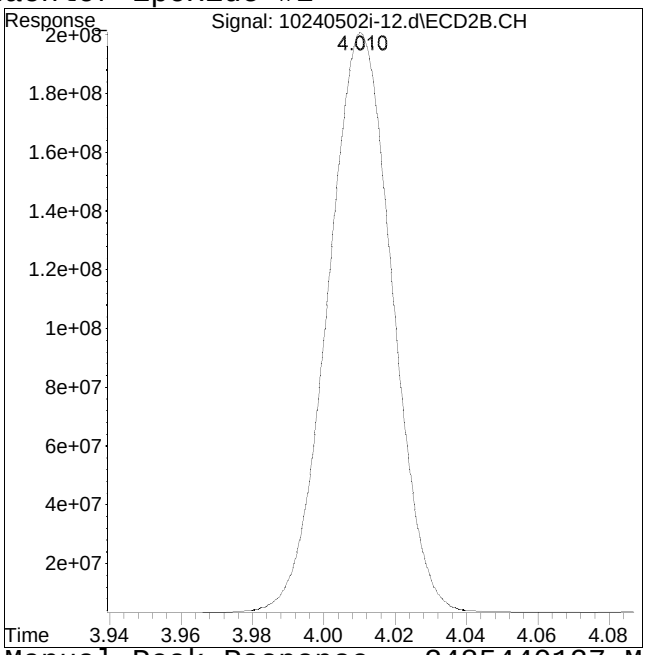
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #50: Heptachlor Epoxide #2



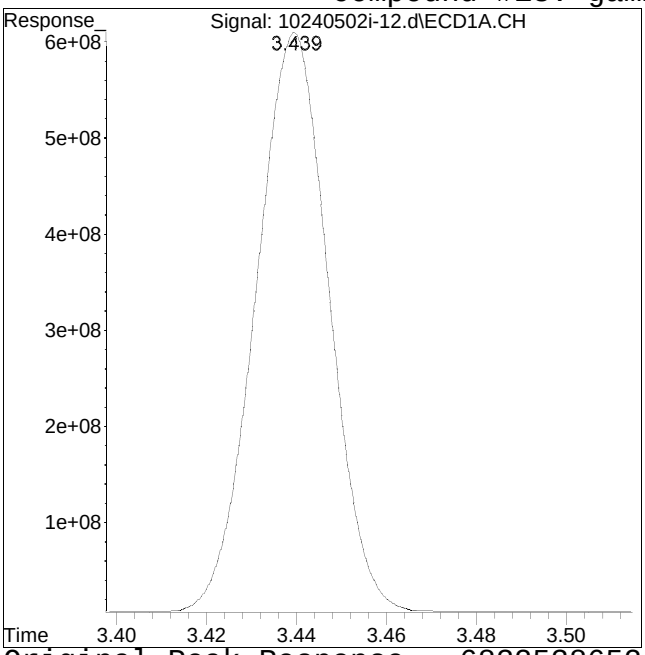


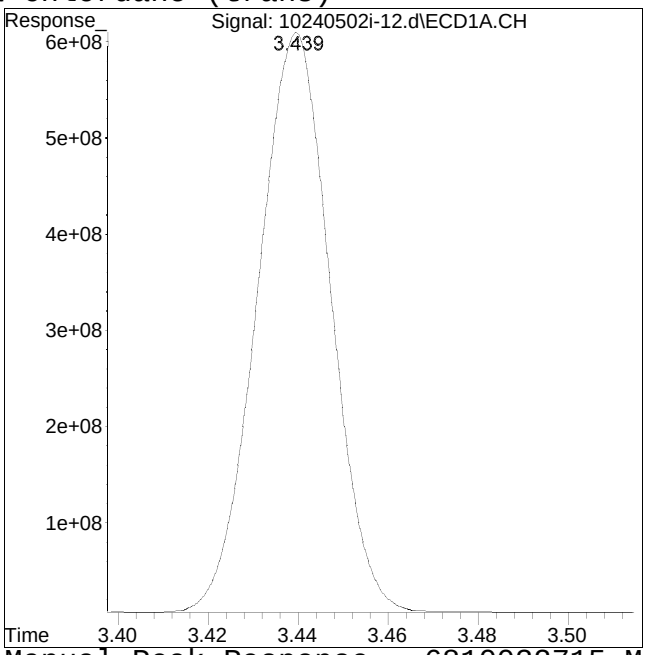
Original Peak Response = 2486707397 Manual Peak Response = 2485440127 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #13: gamma-Chlordane (trans)



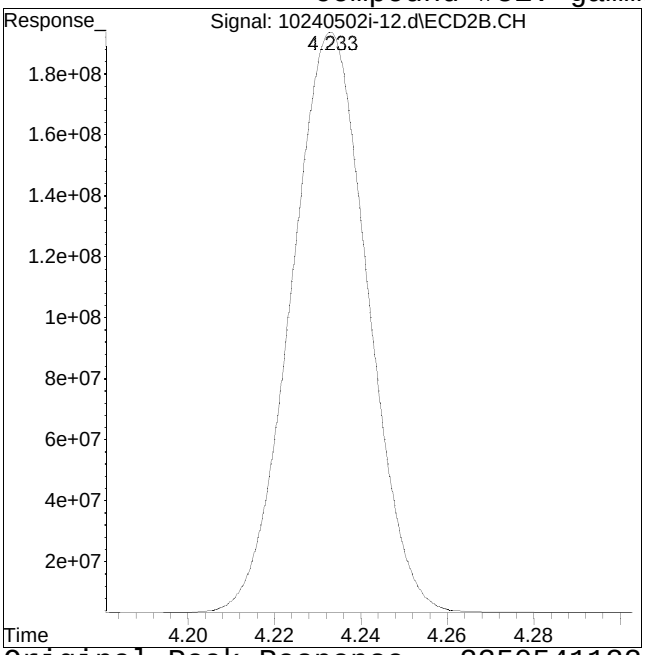


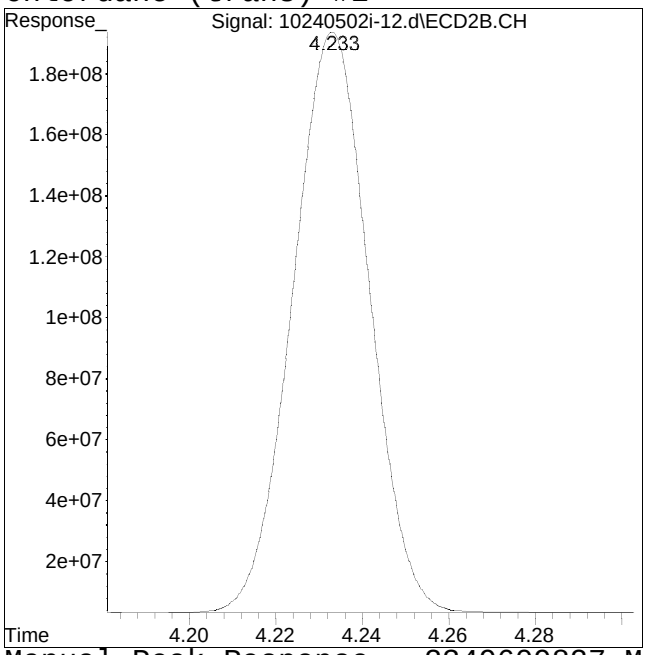
Original Peak Response = 6832538652 Manual Peak Response = 6810032715 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #51: gamma-Chlordane (trans) #2



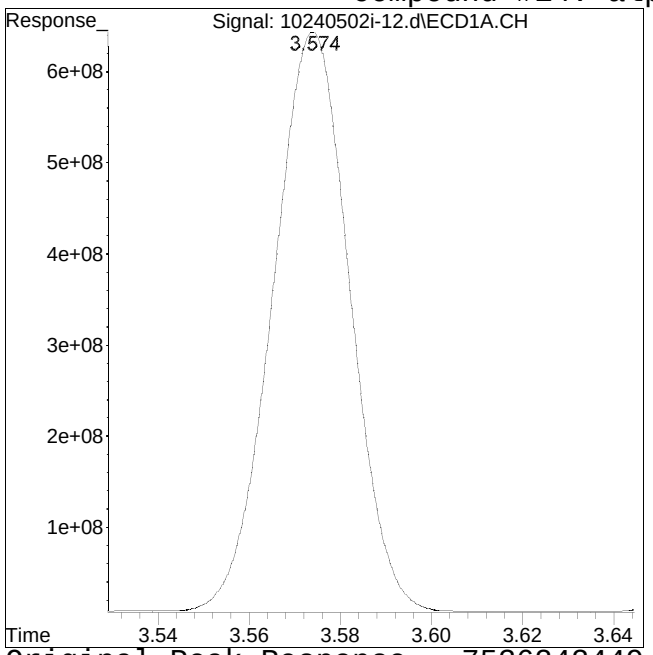


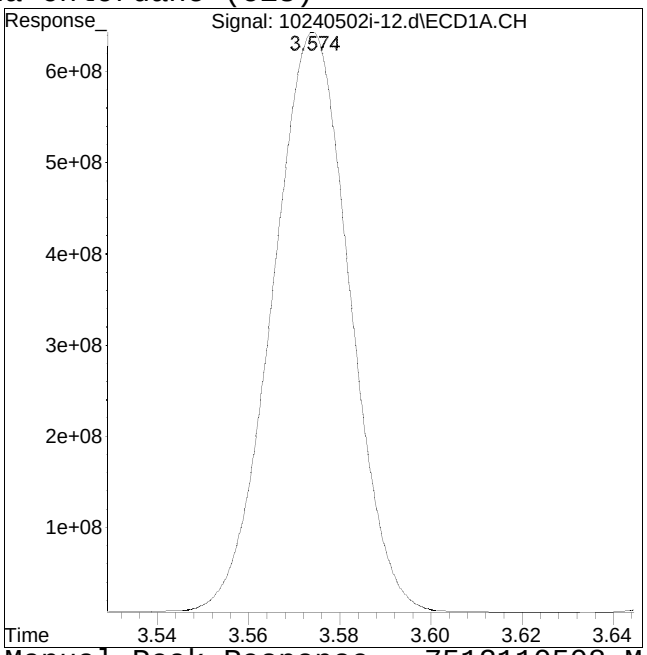
Original Peak Response = 2350541122 Manual Peak Response = 2349609827 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #14: alpha-Chlordane (cis)



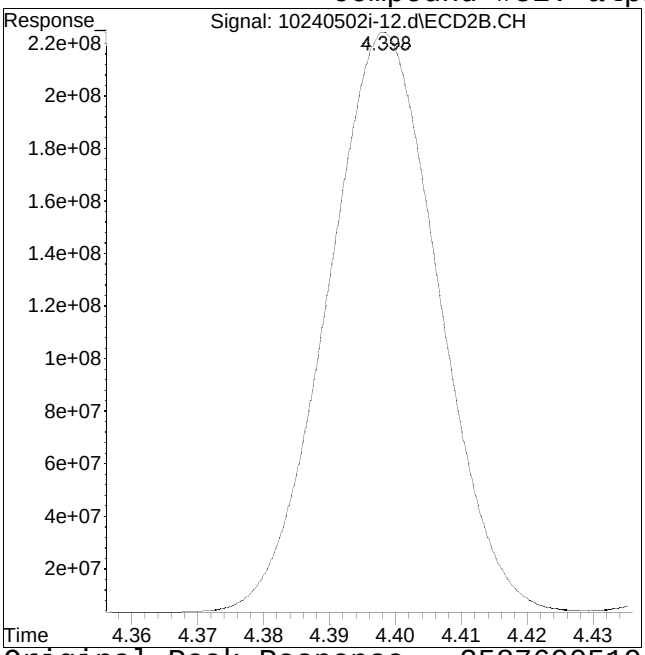


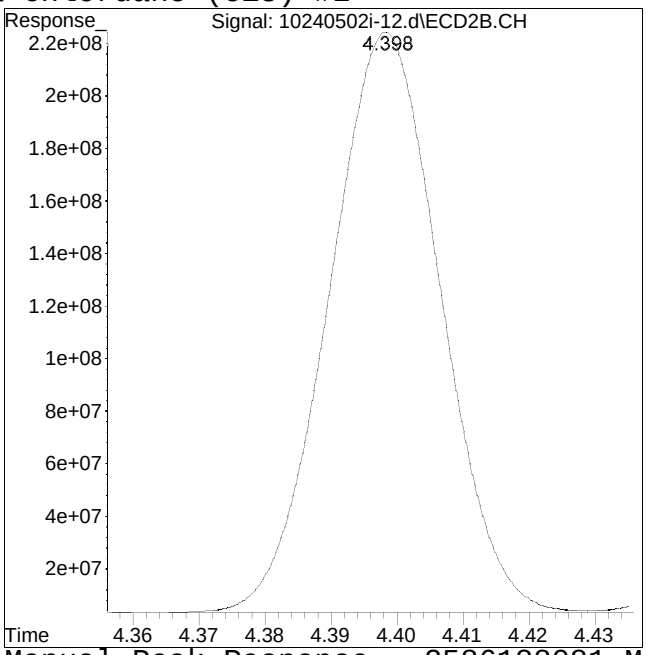
Original Peak Response = 7536242449 Manual Peak Response = 7512110508 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #52: alpha-Chlordane (cis) #2



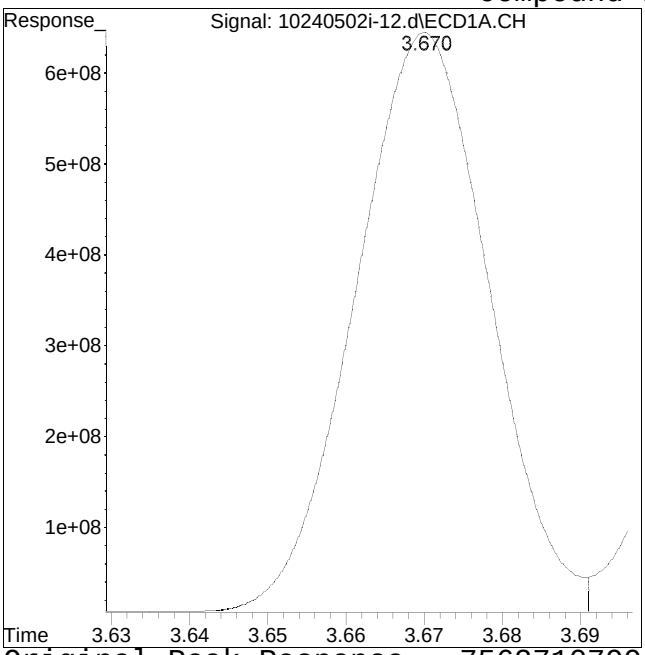


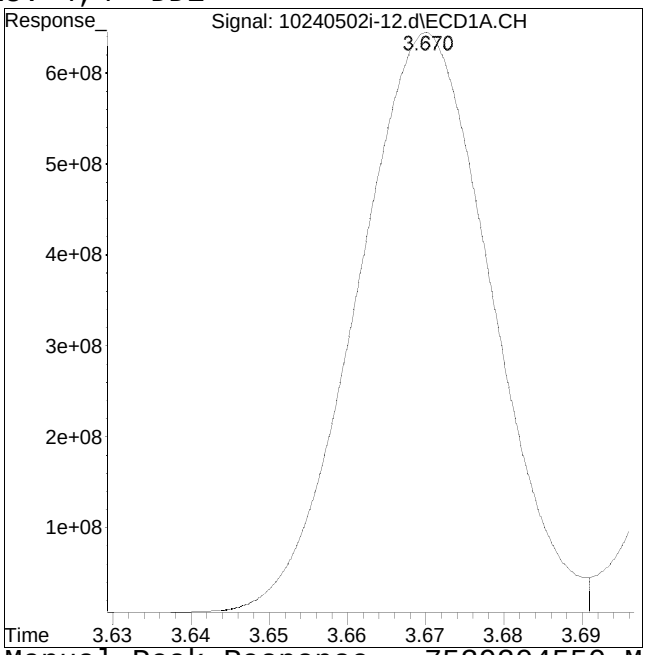
Original Peak Response = 2587690519 Manual Peak Response = 2586188081 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #15: 4,4'-DDE



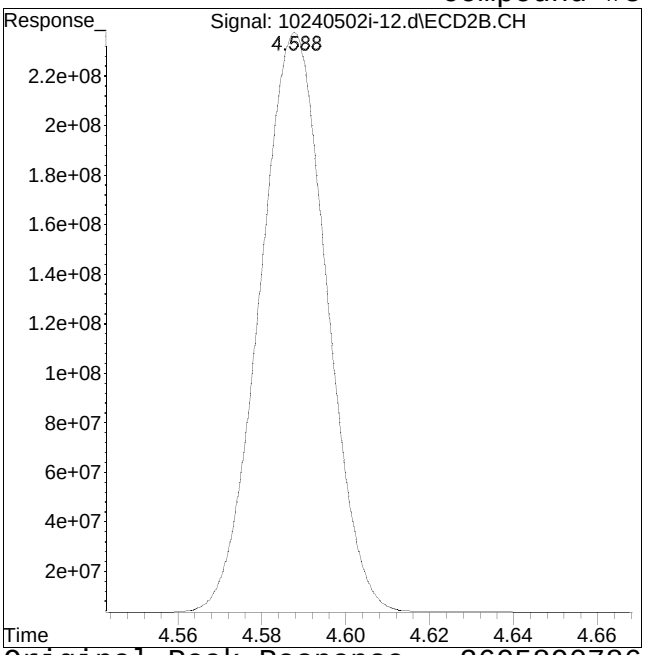


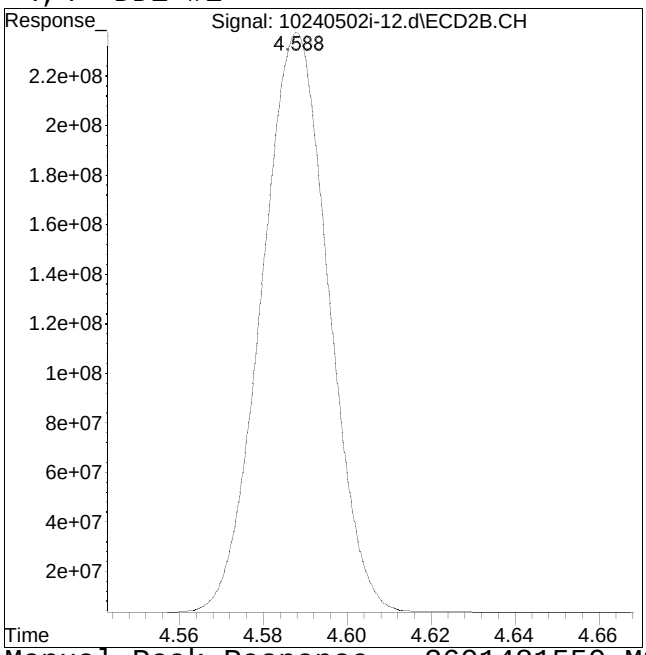
Original Peak Response = 7562710799 Manual Peak Response = 7539204550 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #53: 4,4'-DDE #2



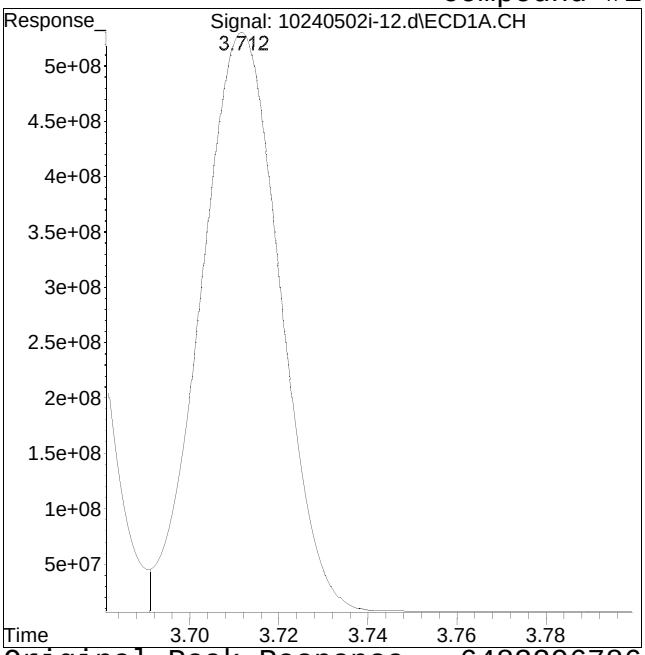


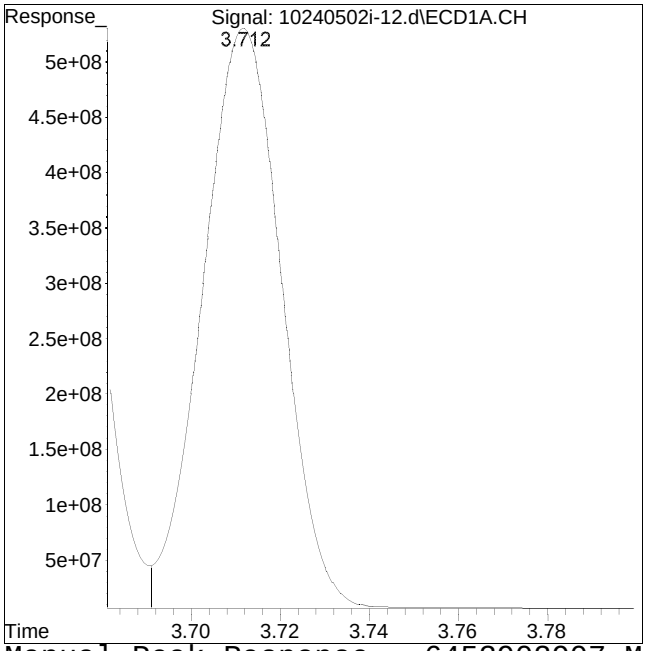
Original Peak Response = 2605890786 Manual Peak Response = 2601481550 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #16: Endosulfan I



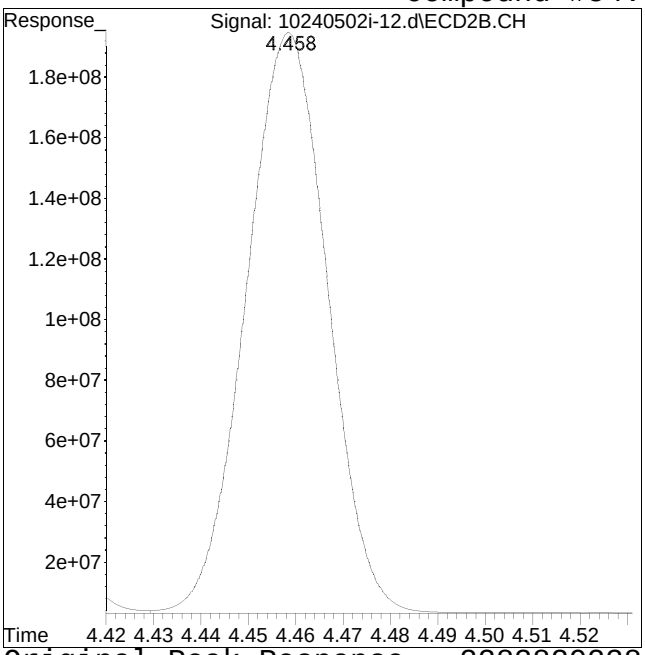


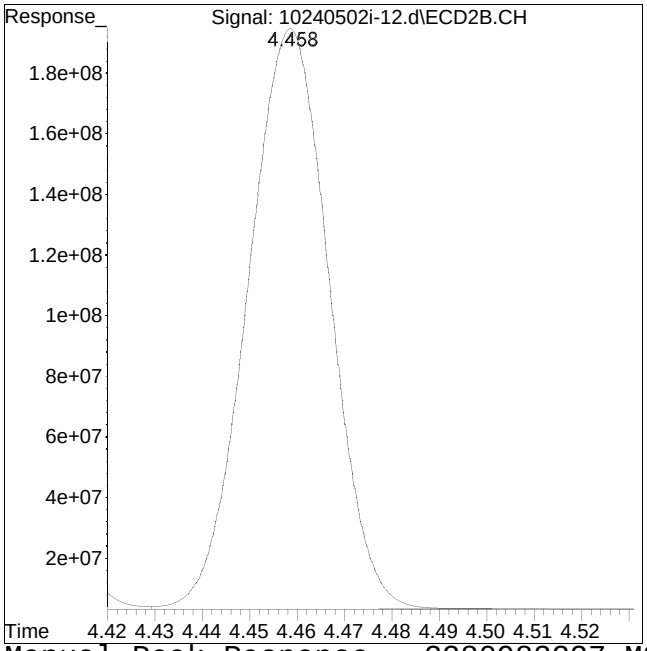
Original Peak Response = 6483296786 Manual Peak Response = 6453902907 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #54: Endosulfan I #2



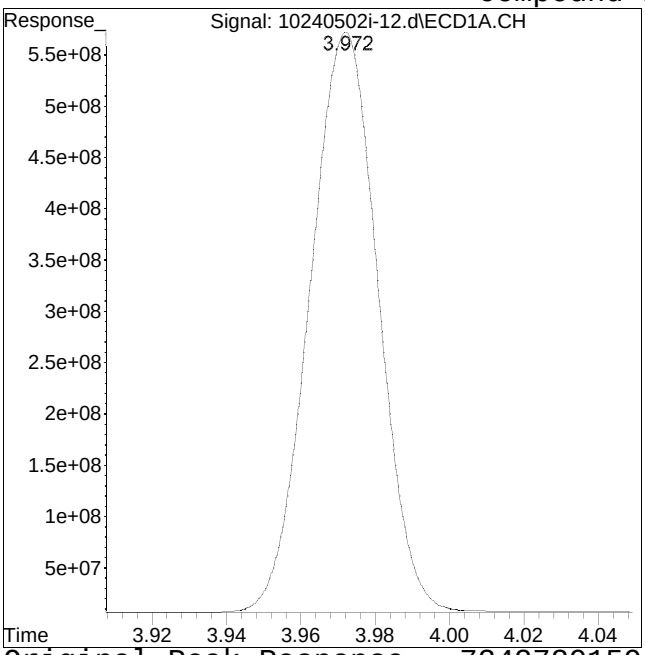


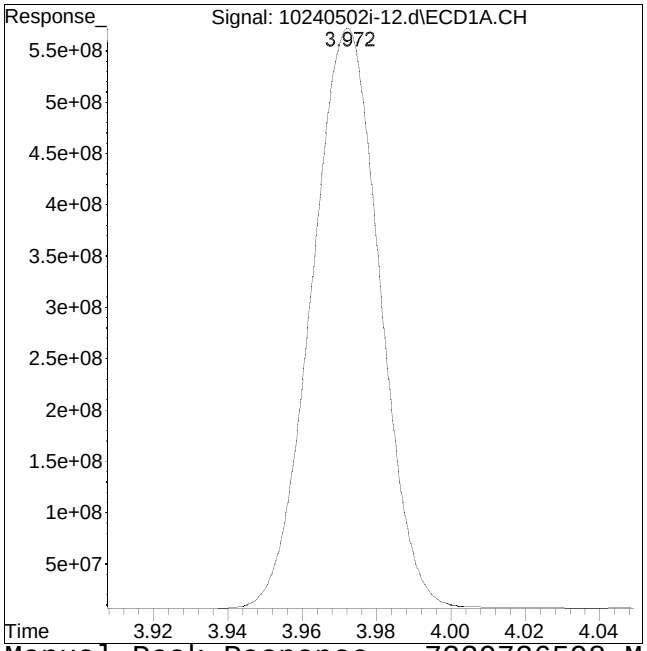
Original Peak Response = 2283829238 Manual Peak Response = 2280983227 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #17: Dieldrin



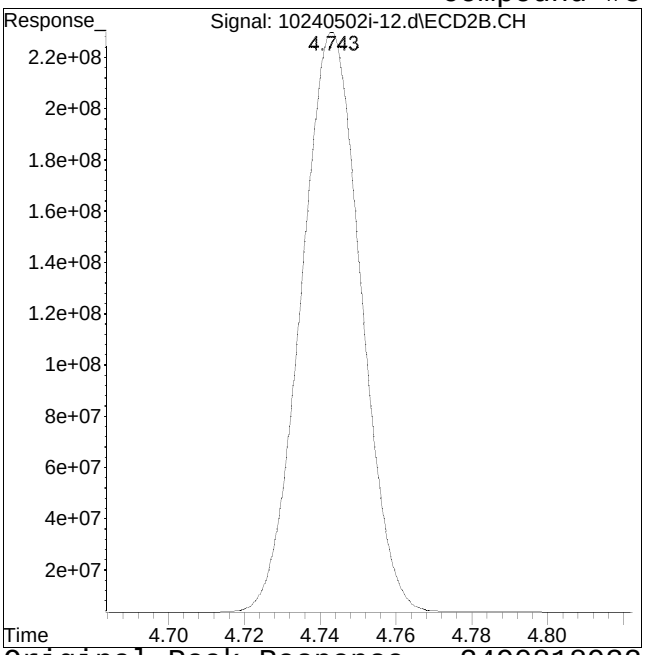


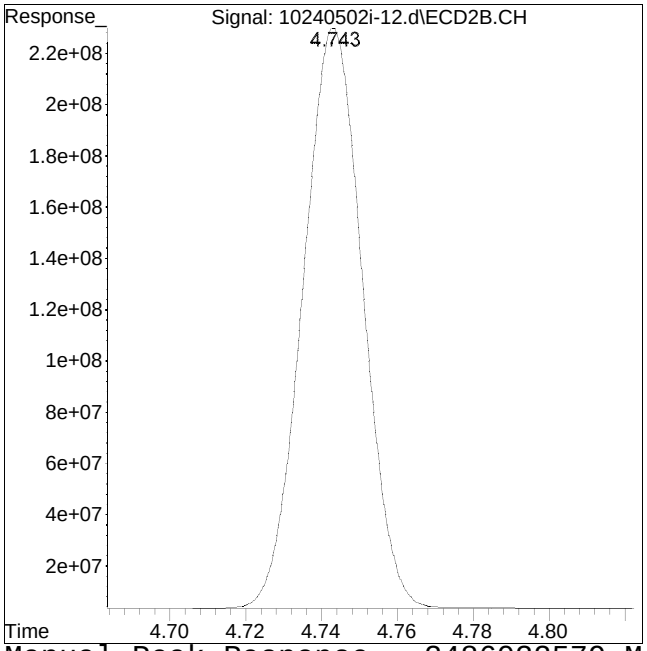
Original Peak Response = 7242729159 Manual Peak Response = 7229726598 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #55: Dieldrin #2



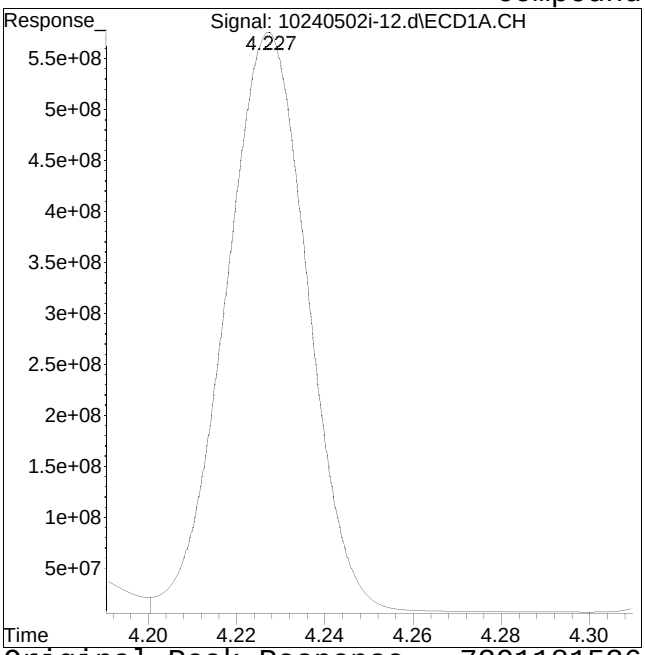


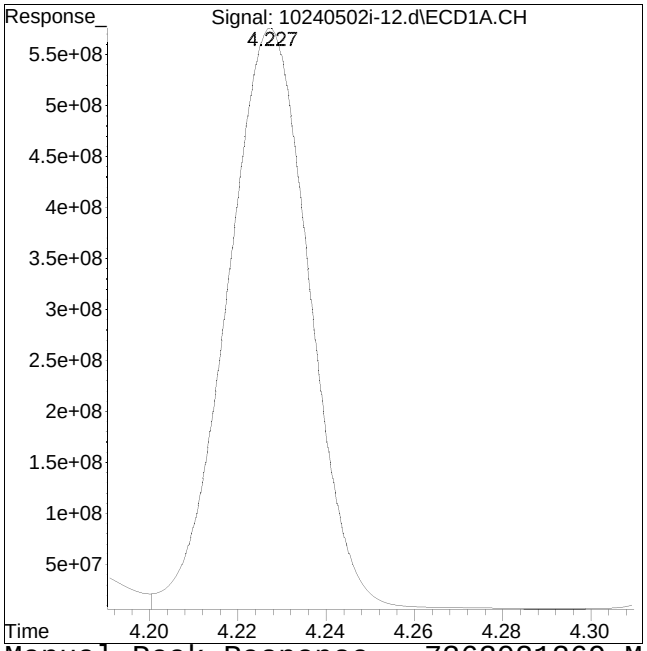
Original Peak Response = 2490818932 Manual Peak Response = 2486032579 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #18: Endrin



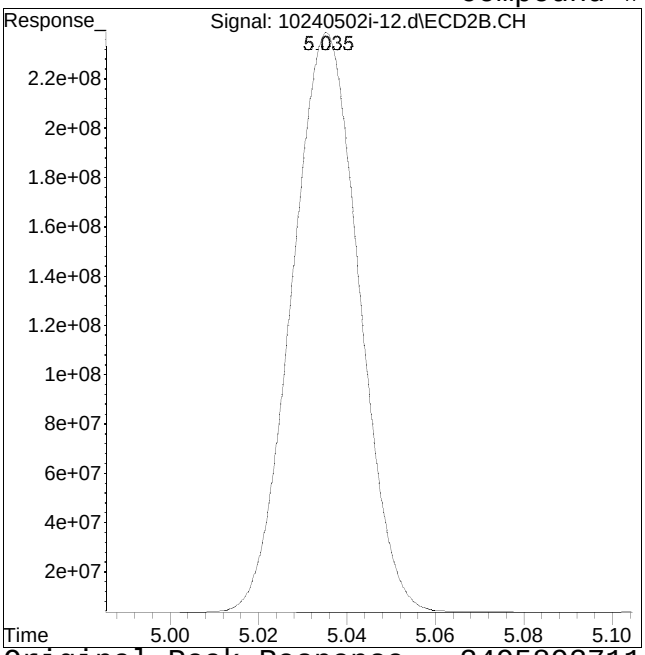


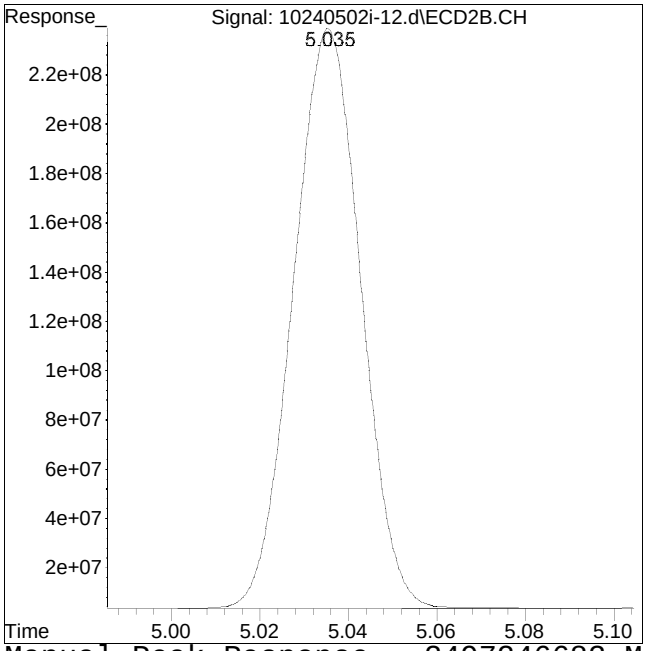
Original Peak Response = 7391181536 Manual Peak Response = 7363021269 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #56: Endrin #2





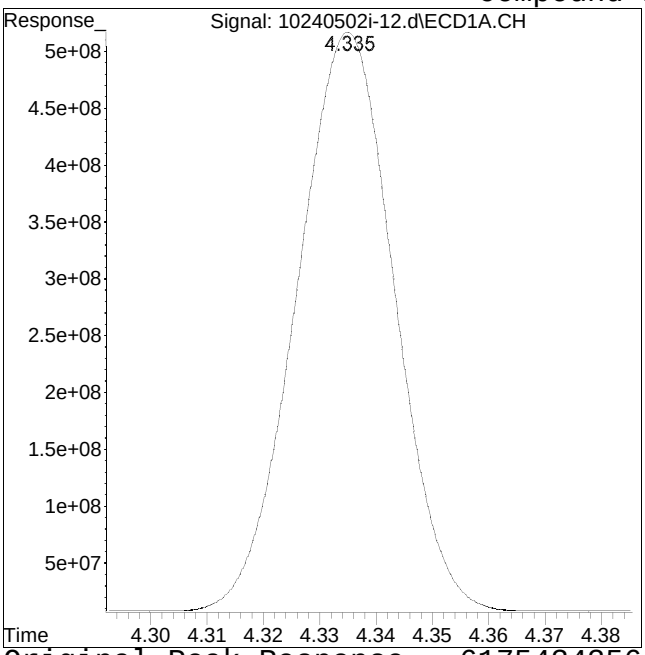
Original Peak Response = 2495893711 Manual Peak Response = 2497246683 M4
M4 = Poor automated baseline construction.

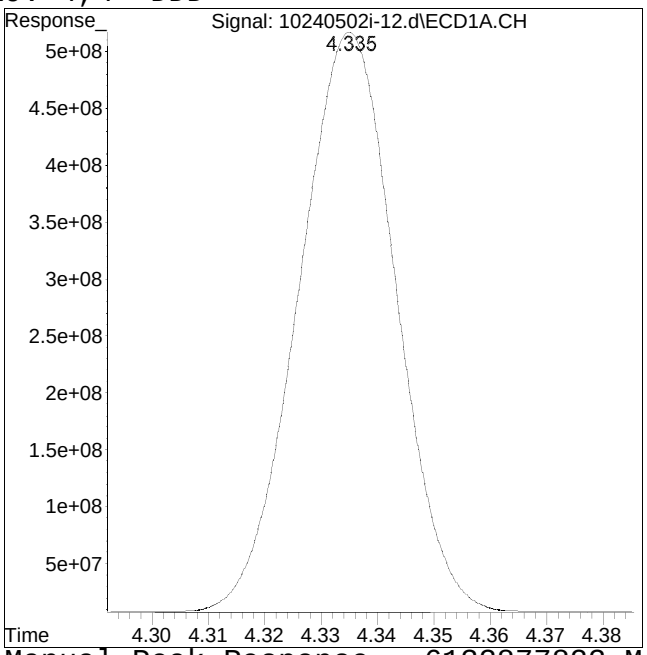
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #19: 4,4'-DDD



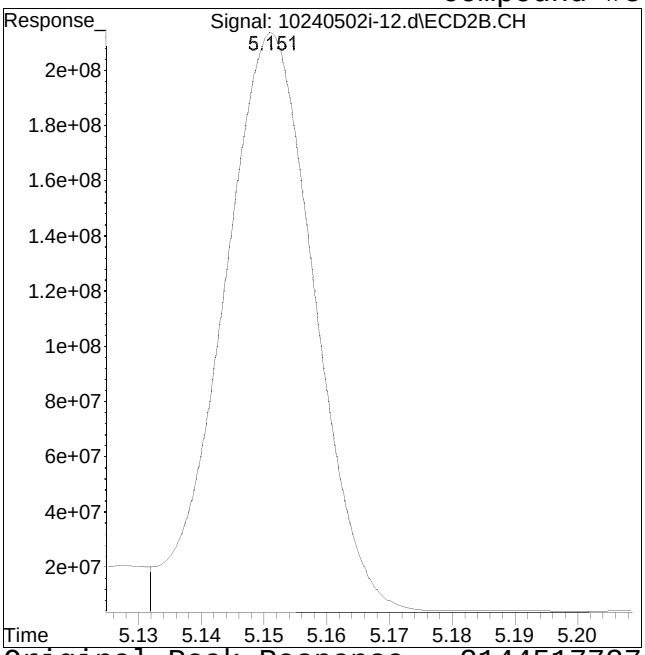


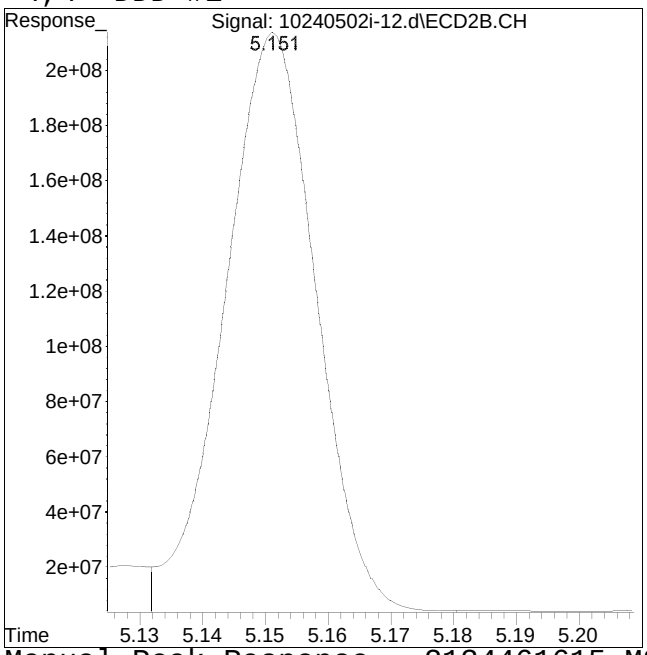
Original Peak Response = 6175434356 Manual Peak Response = 6133877823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #57: 4,4'-DDD #2





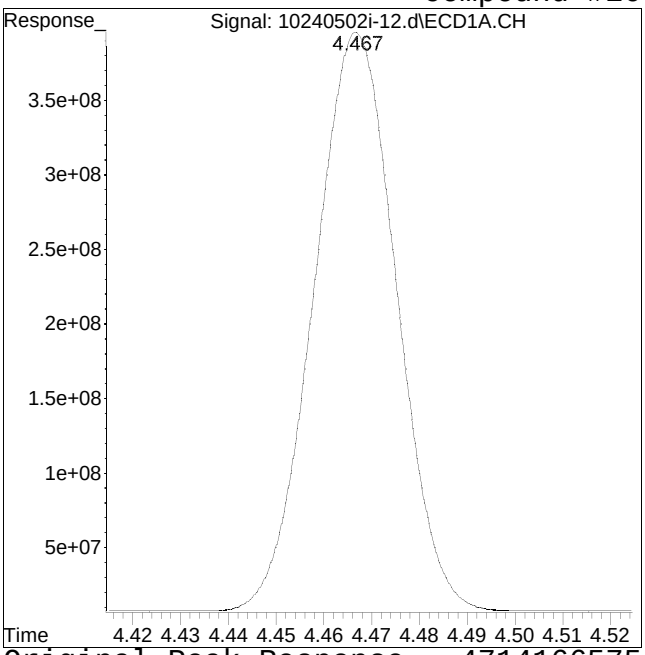
Original Peak Response = 2144517737 Manual Peak Response = 2134461615 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

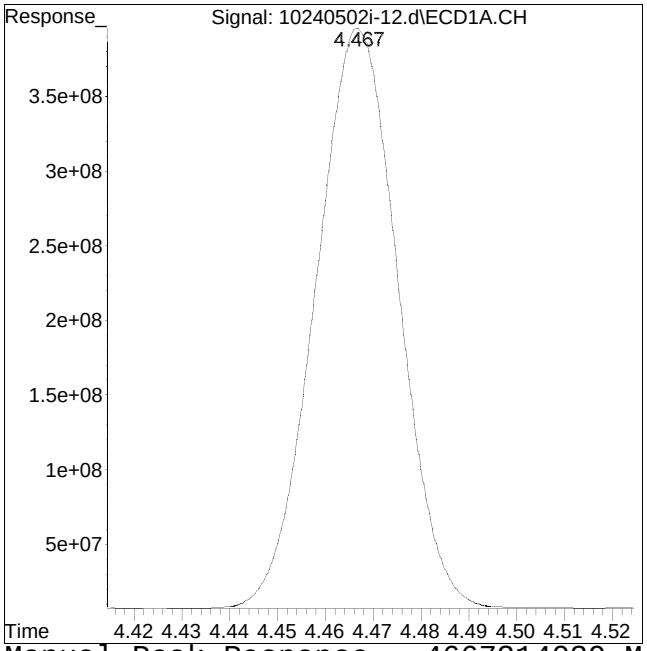
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #20: Endosulfan II



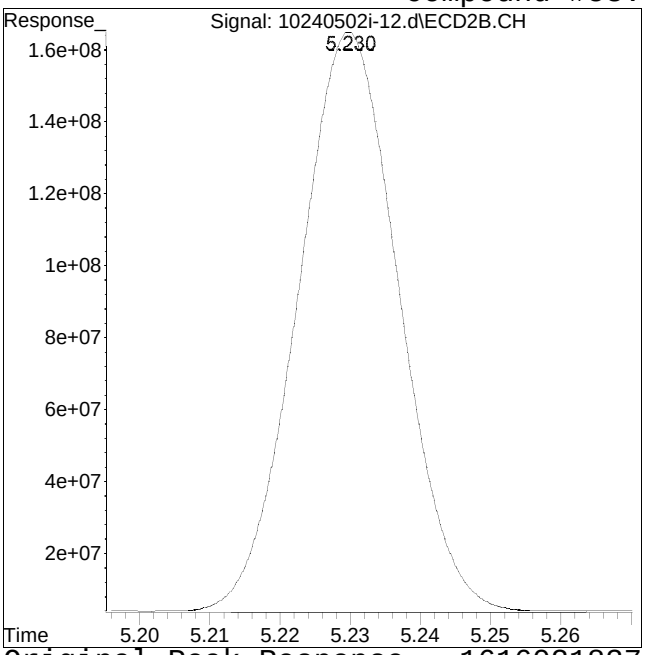


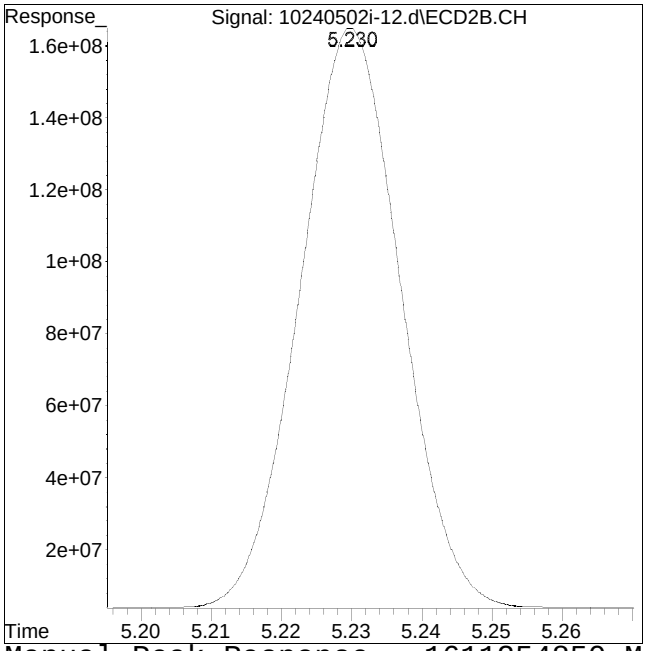
Original Peak Response = 4714166575 Manual Peak Response = 4667314039 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #58: Endosulfan II #2





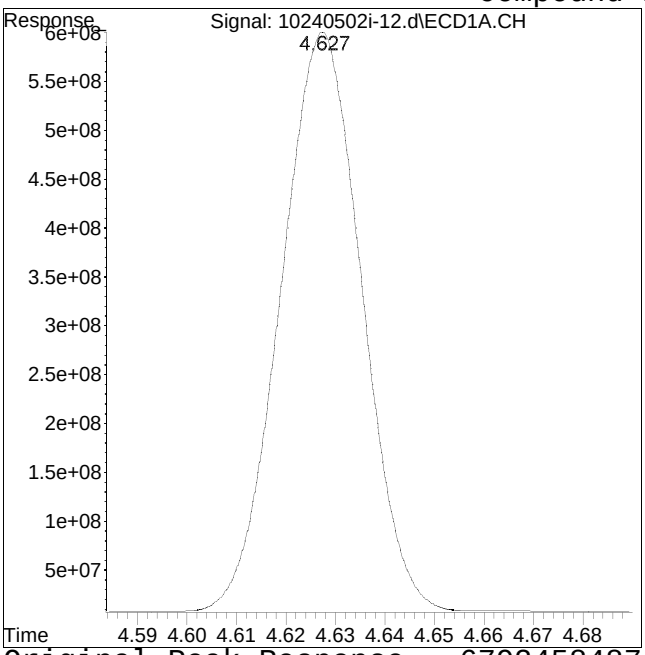
Original Peak Response = 1616021837 Manual Peak Response = 1611254850 M4
M4 = Poor automated baseline construction.

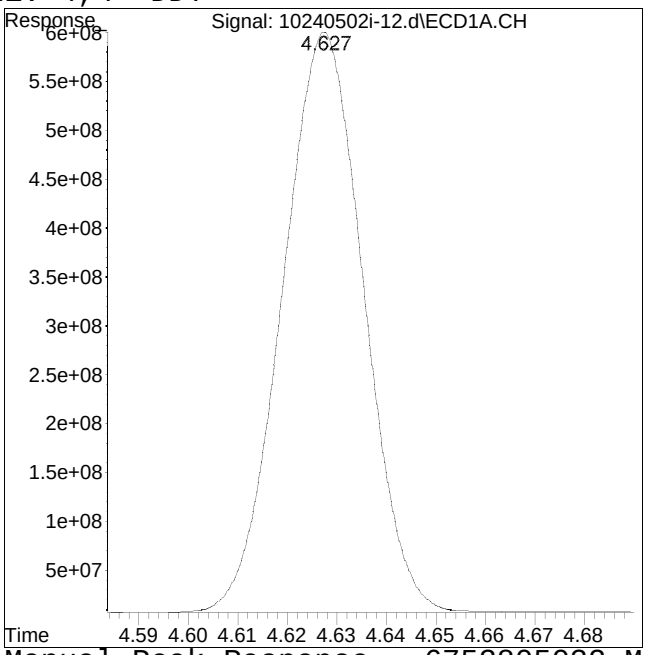
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #21: 4,4'-DDT



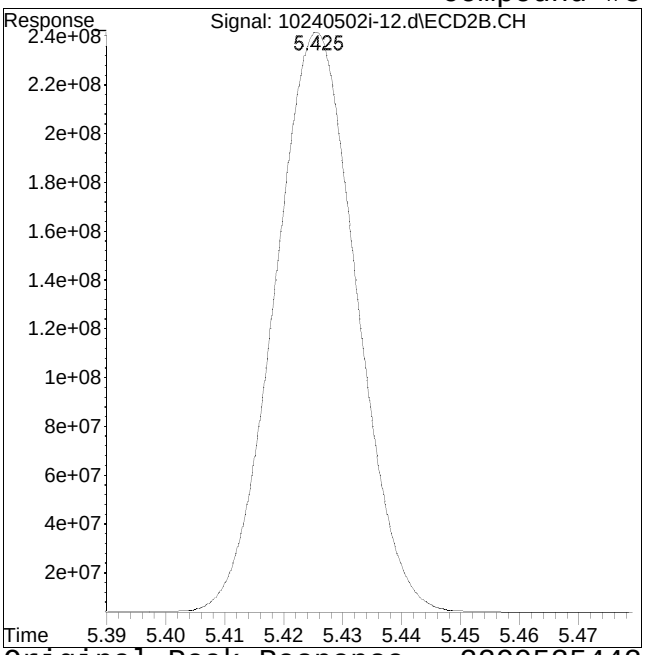


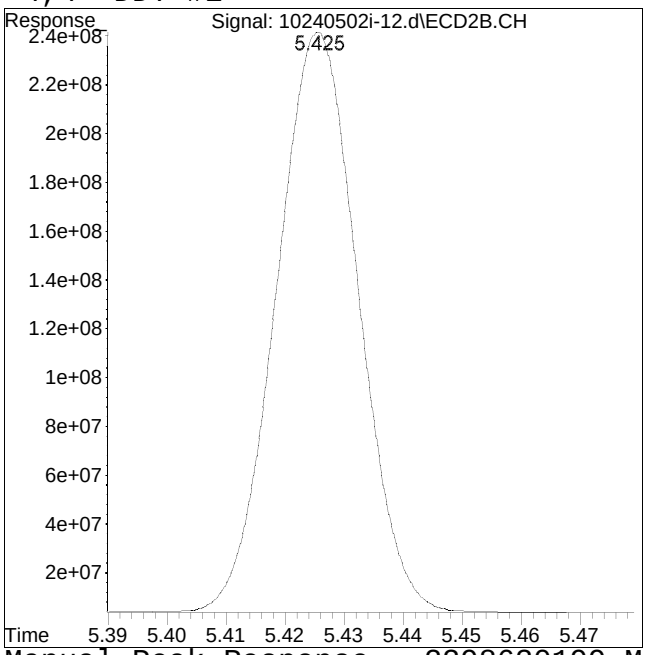
Original Peak Response = 6792458487 Manual Peak Response = 6753805032 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #59: 4,4'-DDT #2



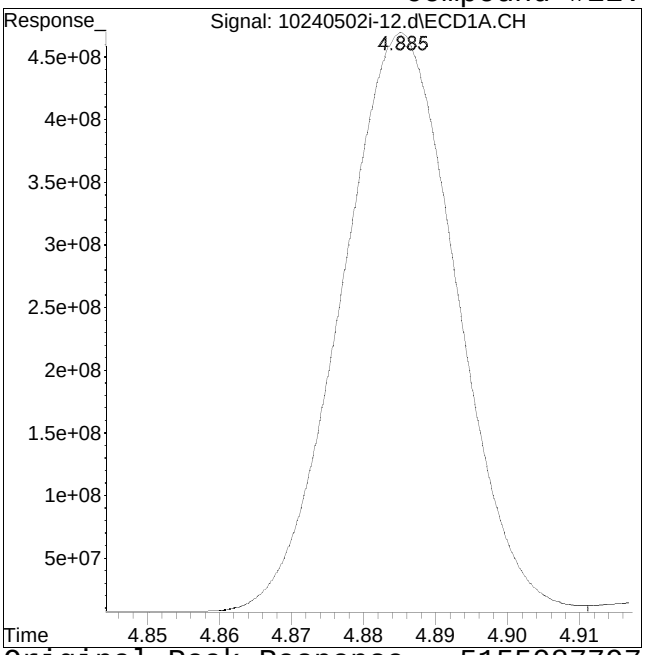


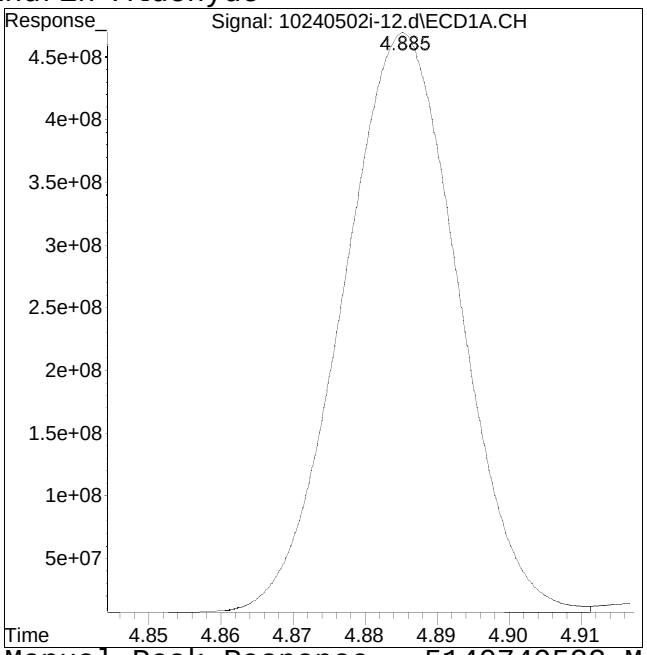
Original Peak Response = 2299535442 Manual Peak Response = 2298630199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #22: Endrin Aldehyde



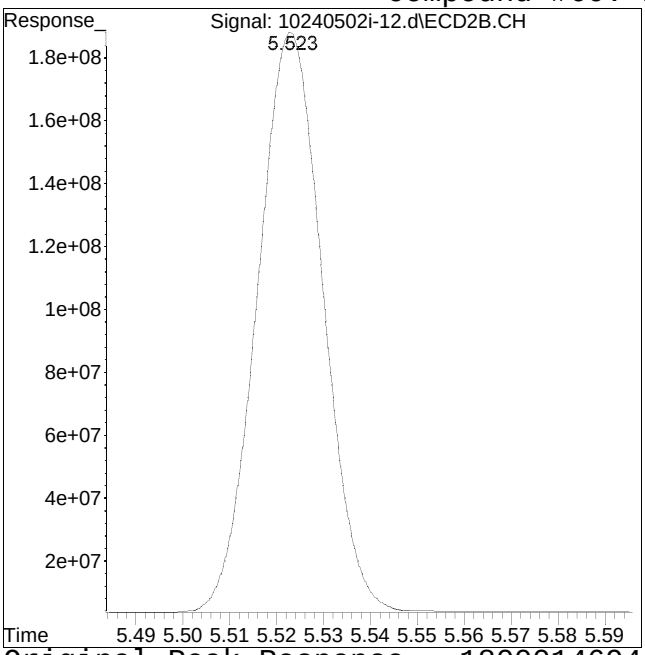


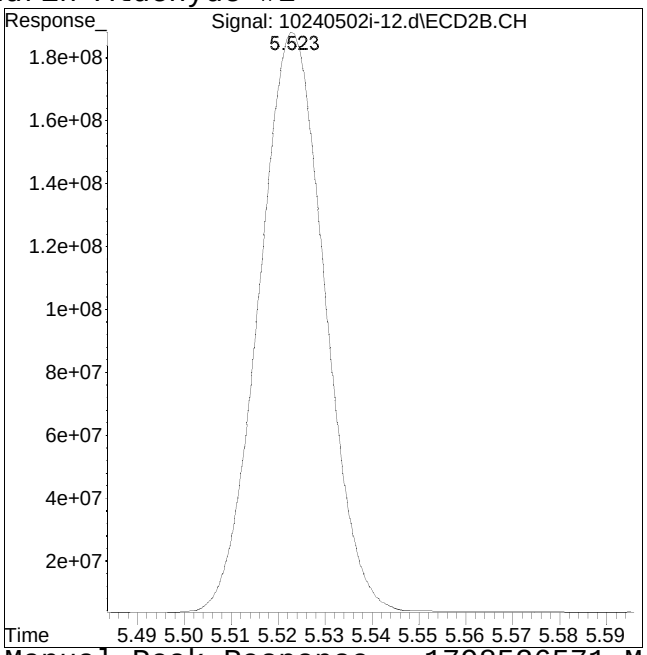
Original Peak Response = 5155087797 Manual Peak Response = 5140749522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #60: Endrin Aldehyde #2





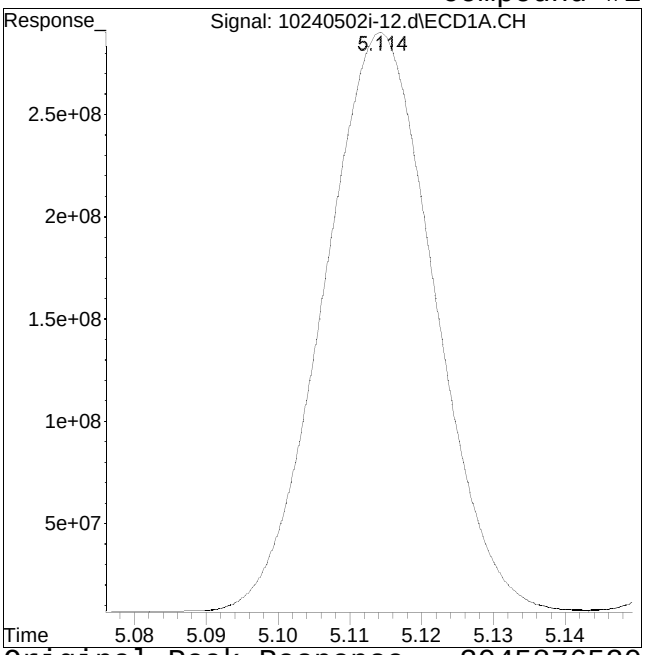
Original Peak Response = 1800014694 Manual Peak Response = 1798526571 M4
M4 = Poor automated baseline construction.

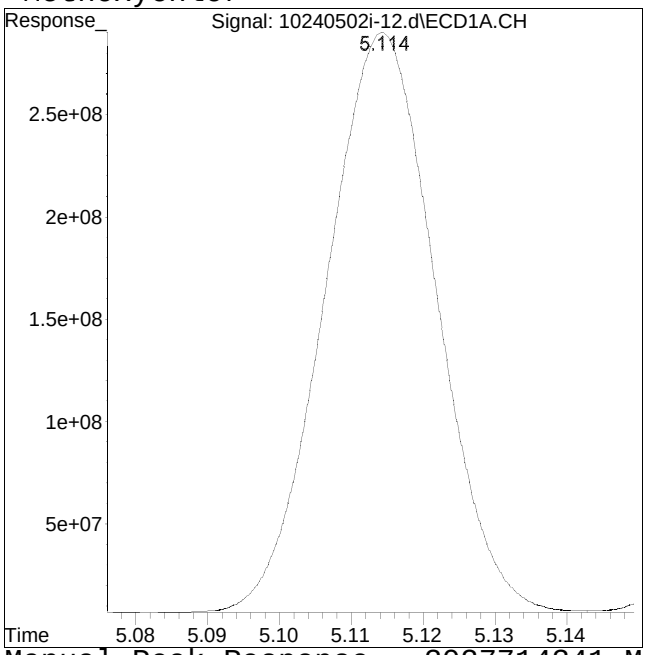
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #23: Methoxychlor



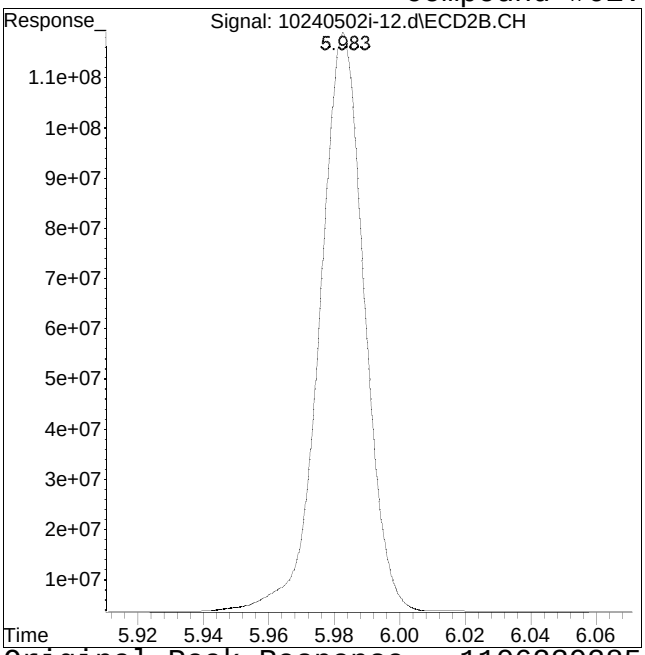


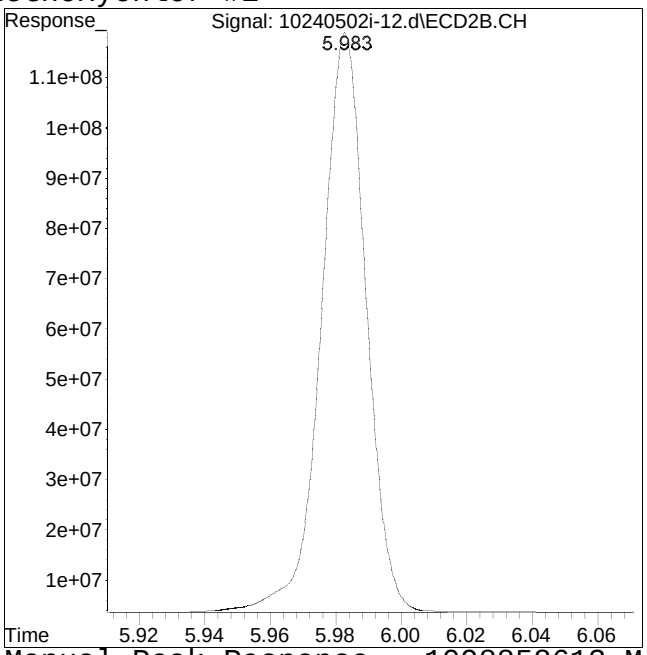
Original Peak Response = 3045876520 Manual Peak Response = 3027714341 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #61: Methoxychlor #2



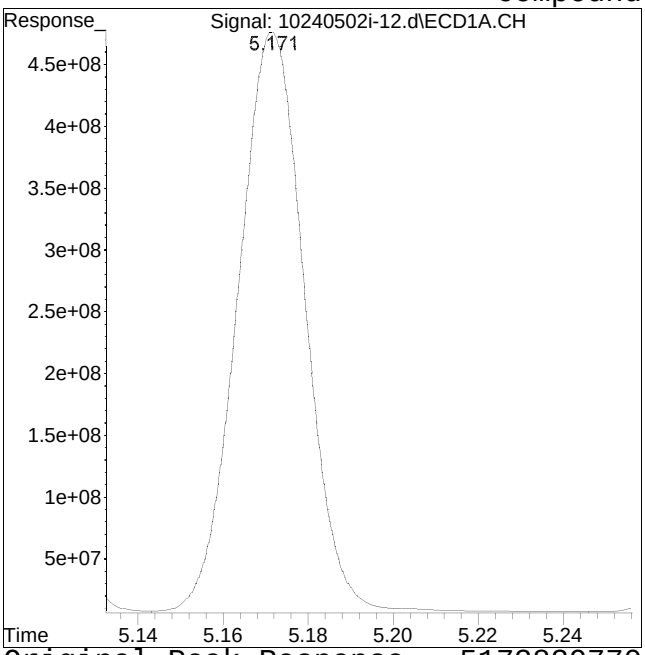


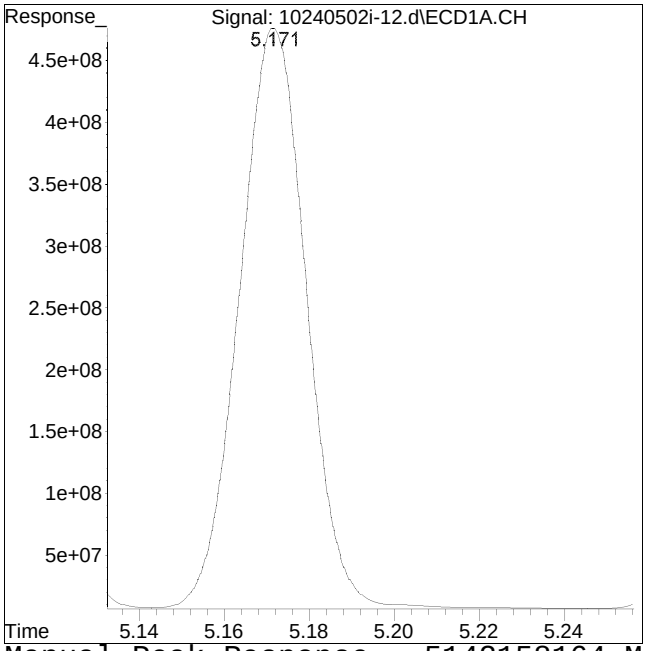
Original Peak Response = 1106239285 Manual Peak Response = 1098858613 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #24: Mirex





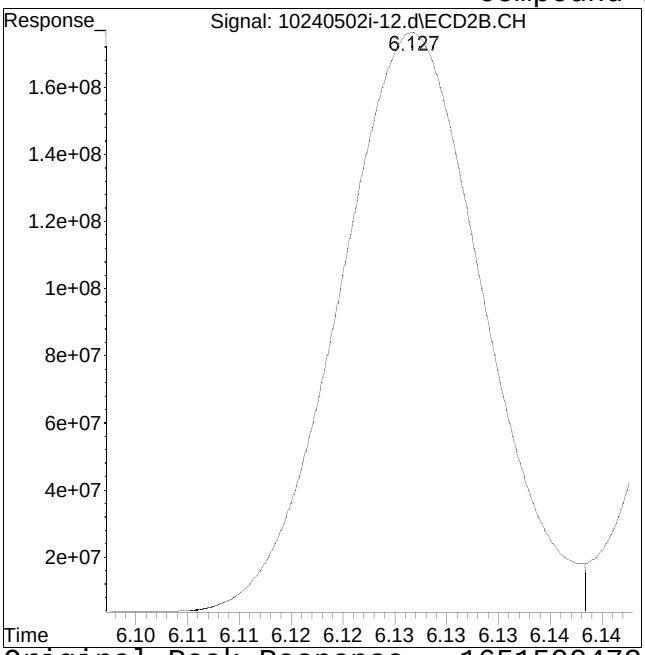
Original Peak Response = 5173839770 Manual Peak Response = 5142158164 M4
M4 = Poor automated baseline construction.

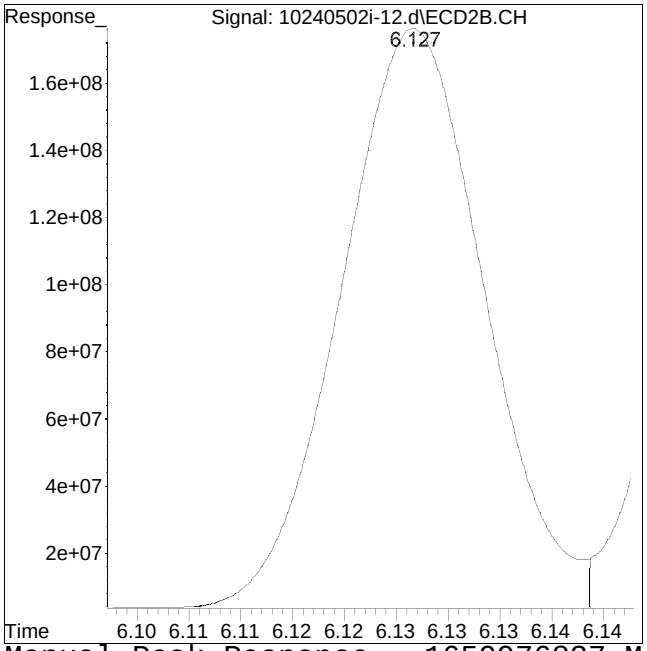
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #62: Mirex #2



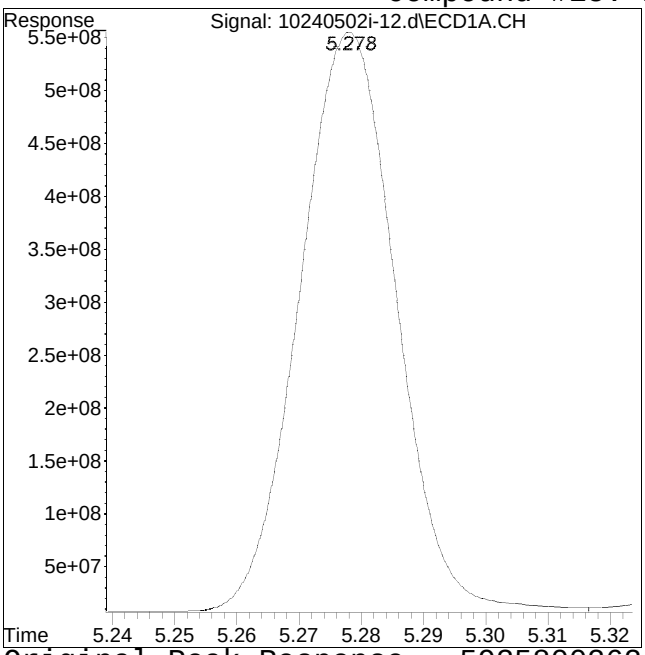


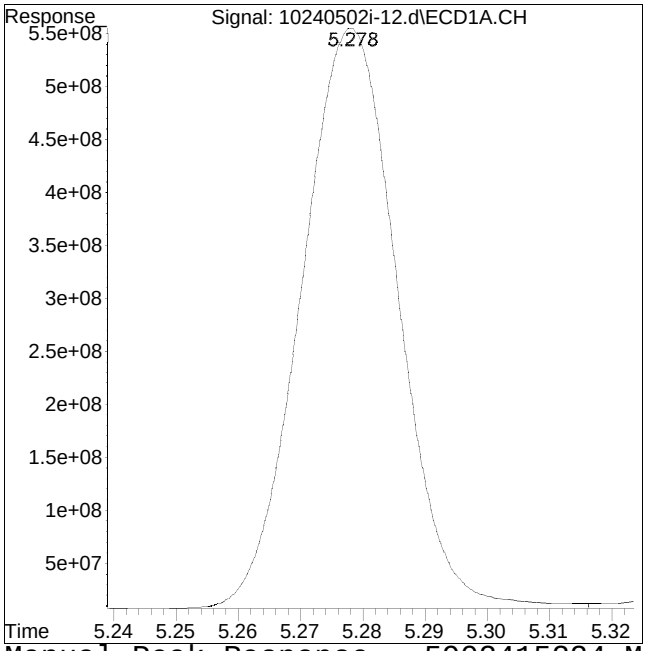
Original Peak Response = 1651590472 Manual Peak Response = 1659976837 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #25: Endosulfan Sulfate





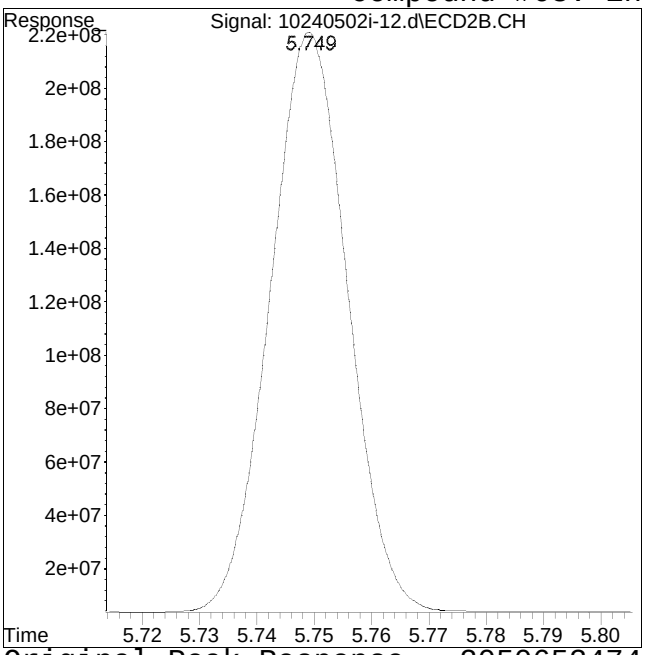
Original Peak Response = 5935800262 Manual Peak Response = 5902415224 M4
M4 = Poor automated baseline construction.

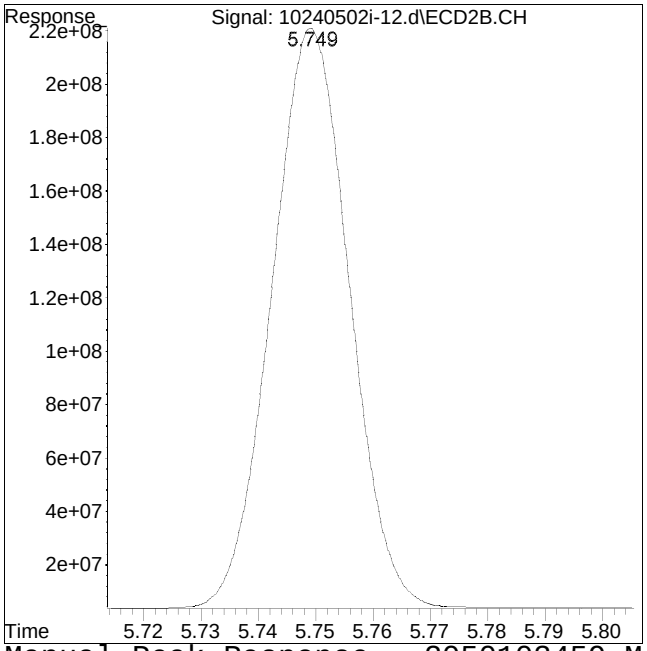
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #63: Endosulfan Sulfate #2



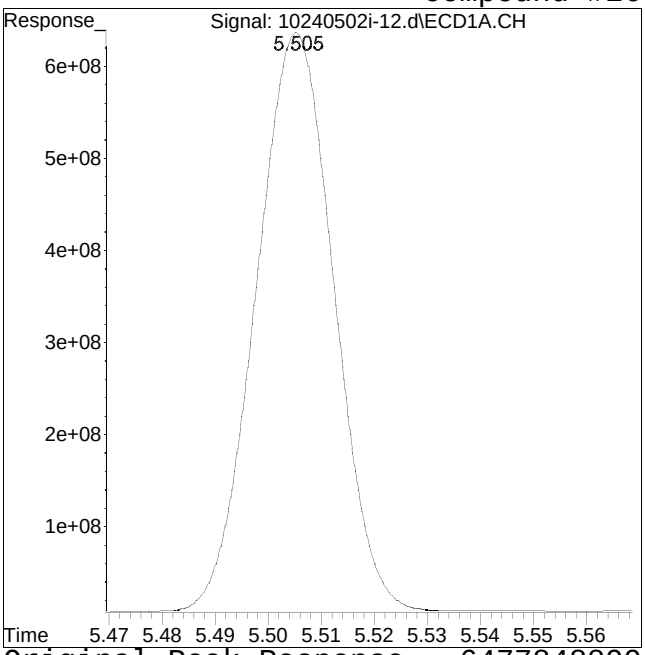


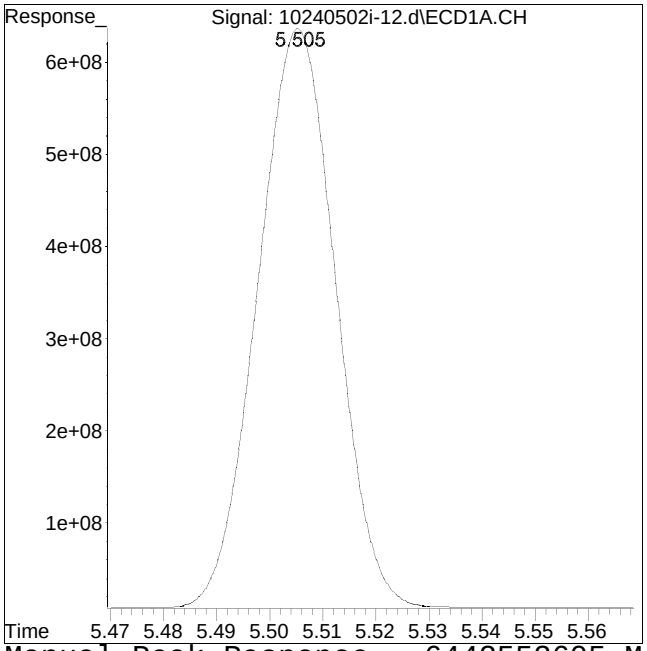
Original Peak Response = 2050653474 Manual Peak Response = 2050103459 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #26: Endrin Ketone



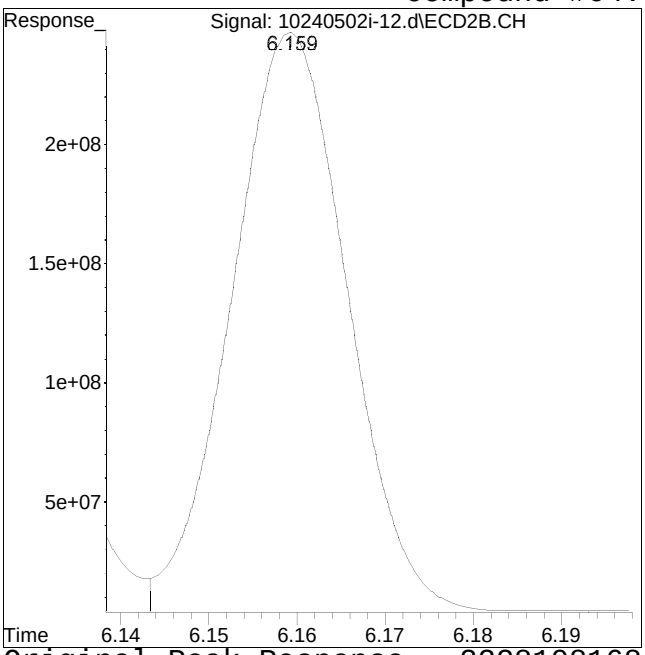


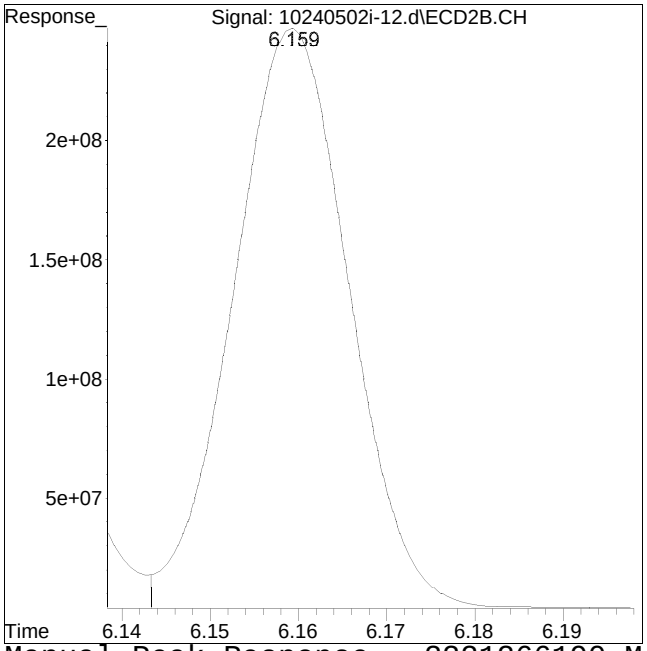
Original Peak Response = 6477848899 Manual Peak Response = 6442552605 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #64: Endrin Ketone #2



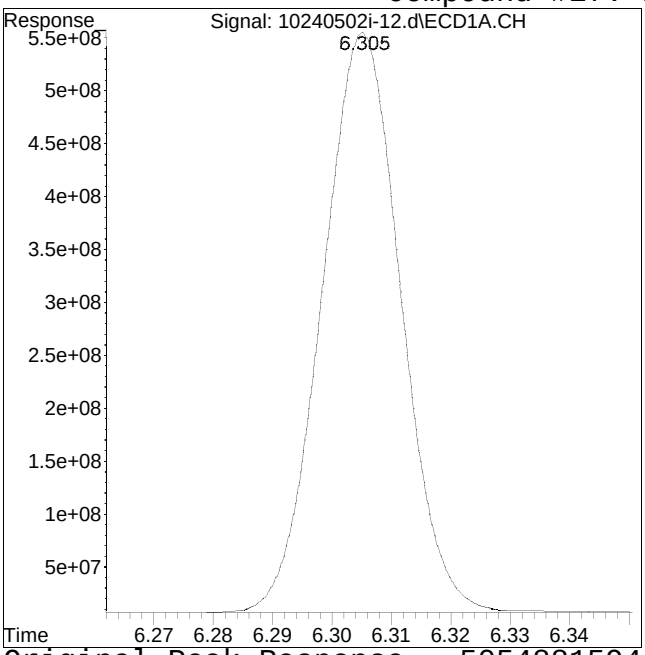


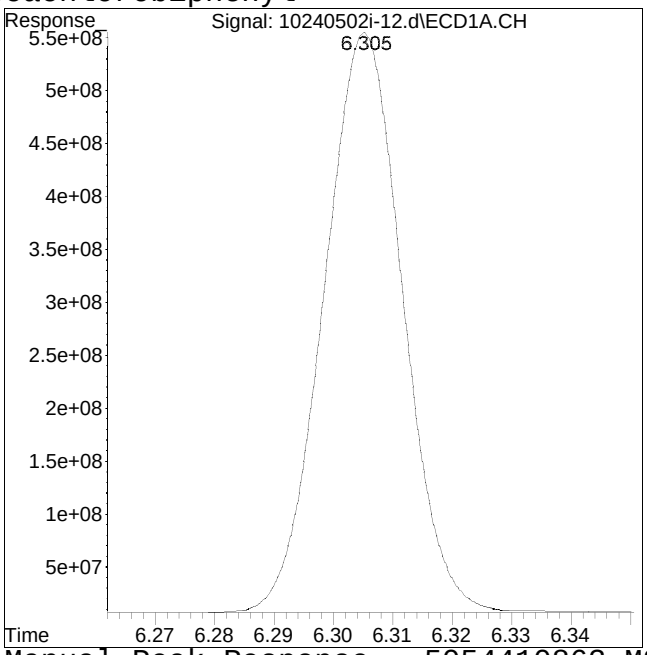
Original Peak Response = 2228108168 Manual Peak Response = 2221266190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #27: Decachlorobiphenyl



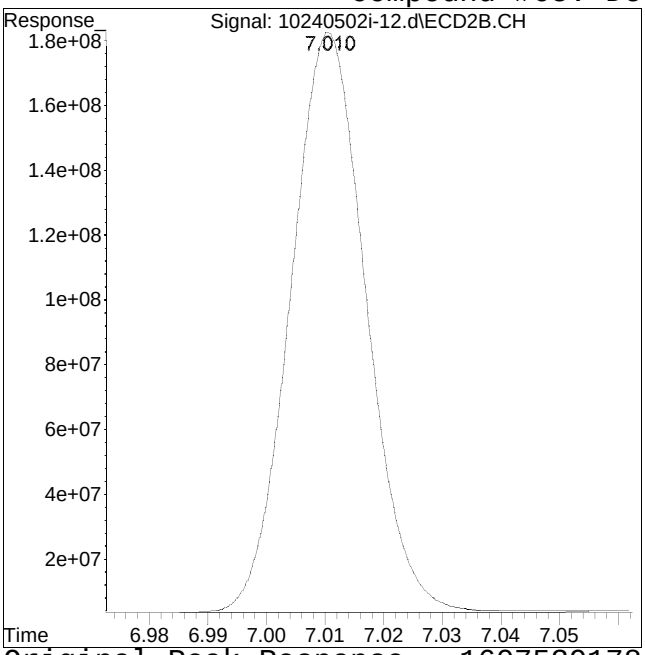


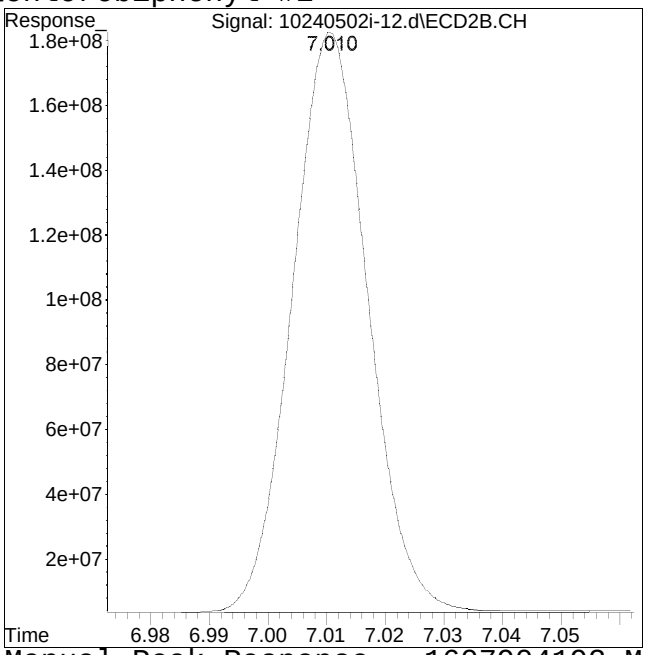
Original Peak Response = 5054881594 Manual Peak Response = 5054410863 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1607539178 Manual Peak Response = 1607904192 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   5:58 pm
Operator : PEST10:jag
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	1.018	6.2	117	0.00
3	t	Hexachlorobenzene		1.160	1.049	9.6	113	0.00
4	t	alpha-BHC		1.510	1.503	0.5	115	0.00
5	t	gamma-BHC (lindane)		1.431	1.341	6.3	112	0.00
6	t	beta-BHC	*	50.000	49.141	1.7	112	0.00
7	t	delta-BHC		1.412	1.304	7.6	108	0.00
8	t	Heptachlor		1.359	1.287	5.3	113	0.00
9	t	Aldrin		1.282	1.235	3.7	114	0.00
10	t	Alachlor	*	50.000	55.196	-10.4	112	0.00
11	t	Chlorpyrifos	*	50.000	56.630	-13.3	113	0.00
12	t	Heptachlor Epoxide		1.221	1.124	7.9	112	0.00
13	t	gamma-Chlordane (trans)		1.117	1.156	-3.5	128	0.00
14	t	alpha-Chlordane (cis)		1.269	1.133	10.7	111	0.00
15	t	4,4'-DDE		1.202	1.133	5.7	111	0.00
16	t	Endosulfan I		1.163	1.059	8.9	111	0.00
17	t	Dieldrin		1.200	1.210	-0.8	121	0.00
18	t	Endrin		1.233	1.147	7.0	111	0.00
19	t	4,4'-DDD		0.977	0.965	1.2	118	0.00
20	t	Endosulfan II		1.064	1.023	3.9	114	0.00
21	t	4,4'-DDT		1.081	1.017	5.9	114	0.00
22	t	Endrin Aldehyde	*	50.000	45.888	8.2	106	0.00
23	t	Methoxychlor	*	50.000	55.134	-10.3	114	0.00
24	t	Mirex	*	50.000	50.650	-1.3	113	0.00
25	t	Endosulfan Sulfate		1.055	0.968	8.2	114	0.00
26	t	Endrin Ketone		1.157	1.129	2.4	118	0.00
27	s	Decachlorobiphenyl	*	50.000	40.862	18.3	91	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   5:58 pm
Operator : PEST10:jag
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	111	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.945	-0.5	117	0.00
3	t	Hexachlorobenzene		1.080	1.021	5.5	115	0.00
4	t	alpha-BHC		1.339	1.405	-4.9	115	0.00
5	t	gamma-BHC (lindane)		1.257	1.262	-0.4	113	0.00
6	t	beta-BHC	*	50.000	49.218	1.6	113	0.00
7	t	delta-BHC		1.262	1.224	3.0	108	0.00
8	t	Heptachlor		1.248	1.225	1.8	114	0.00
9	t	Aldrin		1.137	1.145	-0.7	115	0.00
10	t	Alachlor	*	50.000	52.953	-5.9	112	0.00
11	t	Chlorpyrifos	*	50.000	54.361	-8.7	113	0.00
12	t	Heptachlor Epoxide		1.137	1.067	6.2	111	0.00
13	t	gamma-Chlordane (trans)		1.011	1.087	-7.5	128	0.00
14	t	alpha-Chlordane (cis)		1.137	1.074	5.5	112	0.00
15	t	4,4'-DDE		1.052	1.043	0.9	112	0.00
16	t	Endosulfan I		1.058	1.002	5.3	111	0.00
17	t	Dieldrin		1.059	1.125	-6.2	122	0.00
18	t	Endrin		1.086	1.063	2.1	112	0.00
19	t	4,4'-DDD		0.846	0.885	-4.6	120	0.00
20	t	Endosulfan II		0.951	0.959	-0.8	115	0.00
21	t	4,4'-DDT		0.960	0.936	2.5	112	0.00
22	t	Endrin Aldehyde	*	50.000	45.538	8.9	107	0.00
23	t	Methoxychlor	*	50.000	51.571	-3.1	113	0.00
24	t	Mirex	*	50.000	51.889	-3.8	113	0.00
25	t	Endosulfan Sulfate		0.948	0.913	3.7	116	0.00
26	t	Endrin Ketone		1.033	1.052	-1.8	119	0.00
27	s	Decachlorobiphenyl	*	50.000	41.238	17.5	91	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   5:58 pm
Operator : PEST10:jag
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.32#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.53#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.88#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.44#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.32#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.46#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.58#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.00#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.18#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.92#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.54#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.23#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.40#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.19#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.22#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.53#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.94#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.429	429.7E6	155.6E6	25.000M3	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	875.0E6	294.0E6	46.908M4	50.242M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.82%	100.48%
27) s	Decachlorobi	6.306	7.011	569.9E6	186.2E6	40.862	41.238
	Spiked Amount 50.000	Range 30 - 150		Recovery =		81.72%	82.48%
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	901.5E6	317.9E6	45.224M3	47.272M4
4) t	alpha-BHC	1.977	2.351	1291.3E6	437.2E6	49.742	52.469
5) t	gamma-BHC (l	2.180	2.644	1152.3E6	392.9E6	46.834	50.206M4
6) t	beta-BHC	2.235	2.710	482.7E6	168.8E6	49.141M4	49.218
7) t	delta-BHC	2.365	2.984	1120.5E6	380.8E6	46.156	48.463
8) t	Heptachlor	2.527	3.053	1105.7E6	381.4E6	47.322M4	49.074M4
9) t	Aldrin	2.770	3.382	1061.2E6	356.3E6	48.158M4	50.331
10) t	Alachlor	2.892	3.258	151.8E6	54382920	55.196M4	52.953M4
11) t	Chlorpyrifos	2.983	3.620	473.7E6	176.5E6	56.630M3	54.361M4
12) t	Heptachlor E	3.316	4.011	966.0E6	332.1E6	46.019M4	46.923M4
13) t	gamma-Chlord	3.440	4.233	993.9E6	338.3E6	51.755	53.741M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14) t	alpha-Chlord	3.575	4.399	973.5E6	334.4E6	44.626	47.228
15) t	4,4'-DDE	3.671	4.588	974.1E6	324.8E6	47.152	49.610M4
16) t	Endosulfan I	3.713	4.459	910.4E6	311.9E6	45.547	47.360
17) t	Dieldrin	3.973	4.743	1039.5E6	350.1E6	50.390	53.125M3
18) t	Endrin	4.228	5.035	986.0E6	330.9E6	46.536	48.928M4
19) t	4,4'-DDD	4.336	5.151	829.5E6	275.6E6	49.394M3	52.333M4
20) t	Endosulfan I	4.467	5.230	879.3E6	298.4E6	48.082M3	50.391M4
21) t	4,4'-DDT	4.628	5.426	873.9E6	291.2E6	47.022	48.746M4
22) t	Endrin Aldeh	4.886	5.523	639.8E6	218.5E6	45.888	45.538M4
23) t	Methoxychlor	5.115	5.983	473.1E6	154.5E6	55.134	51.571M4
24) t	Mirex	5.173	6.127	710.7E6	235.8E6	50.650	51.889M4
25) t	Endosulfan S	5.279	5.749	832.1E6	284.3E6	45.885M4	48.167M3
26) t	Endrin Keton	5.506	6.160	970.1E6	327.6E6	48.773M4	50.933M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

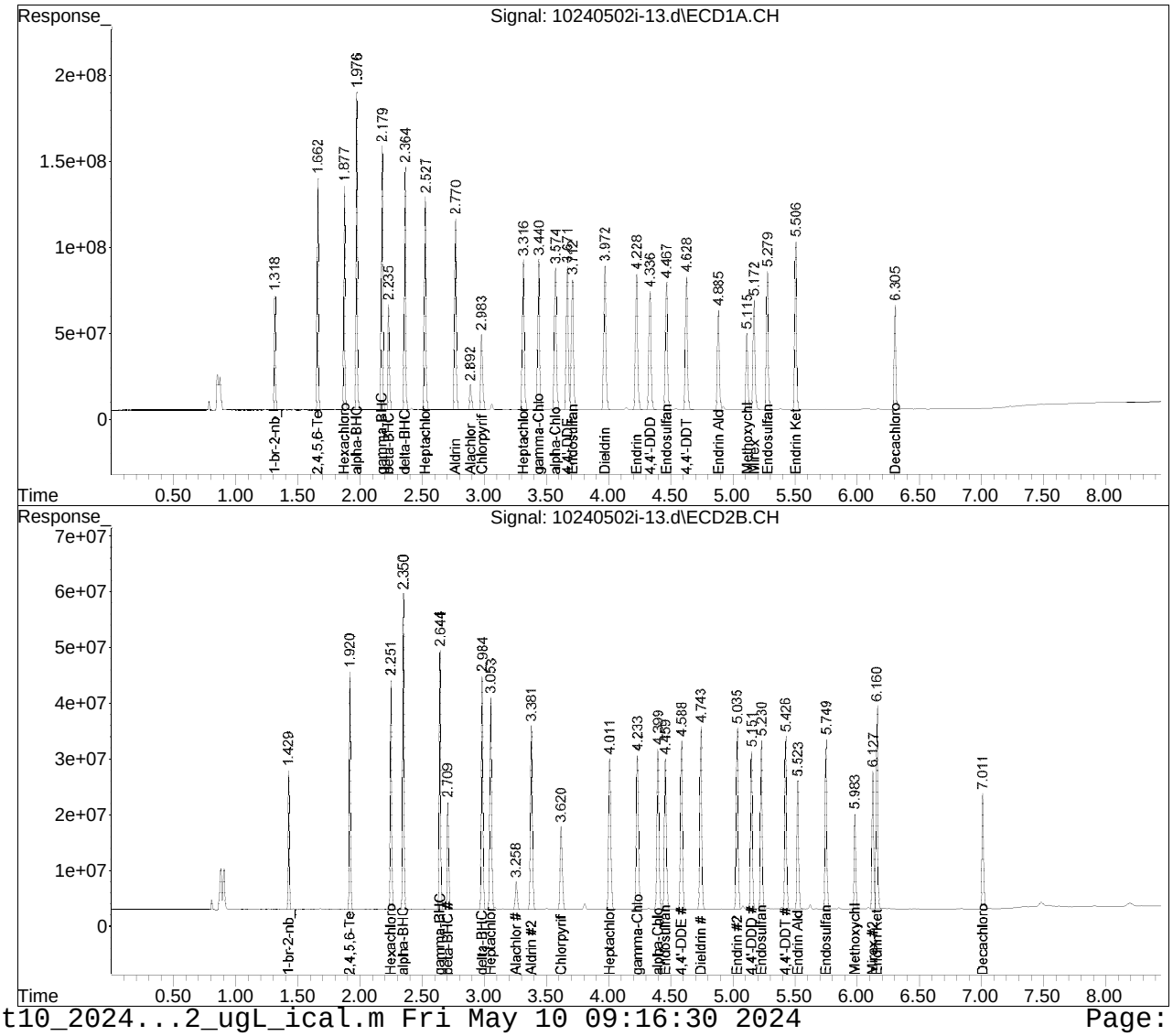
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

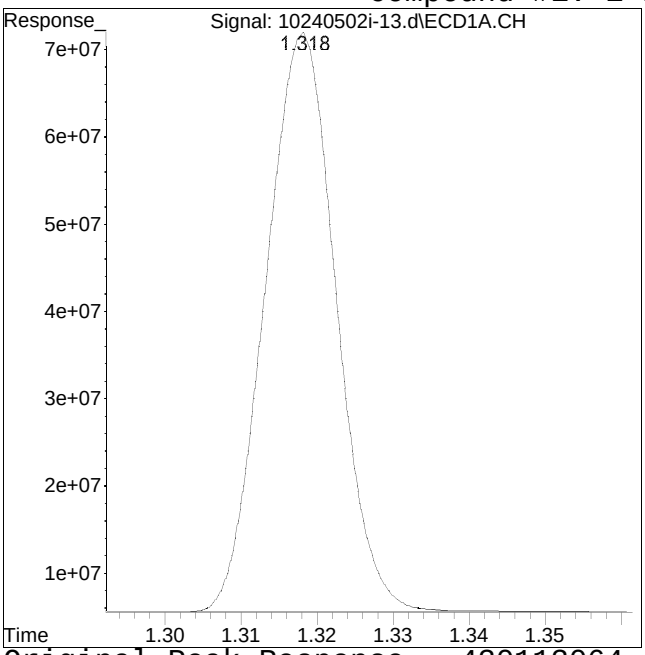


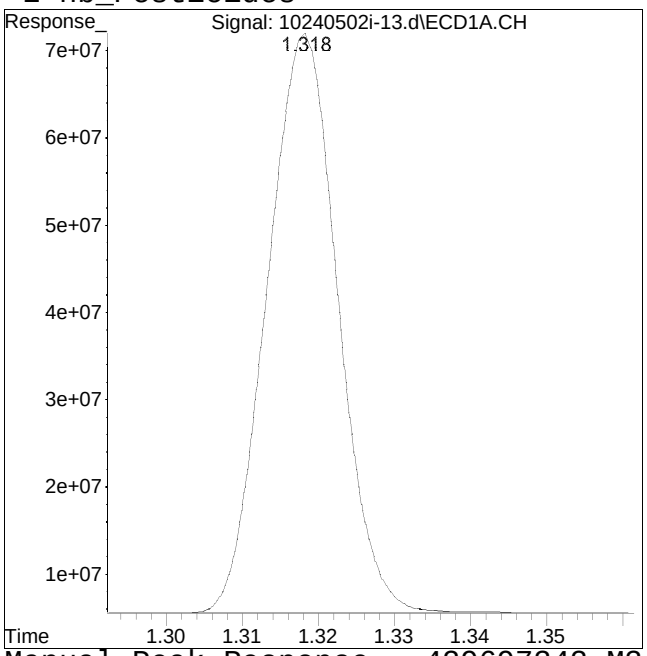
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-13.d
Date Inj'd : 5/2/2024 5:58 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/9/2024 3:44 pm

Compound #1: 1-br-2-nb_Pesticides





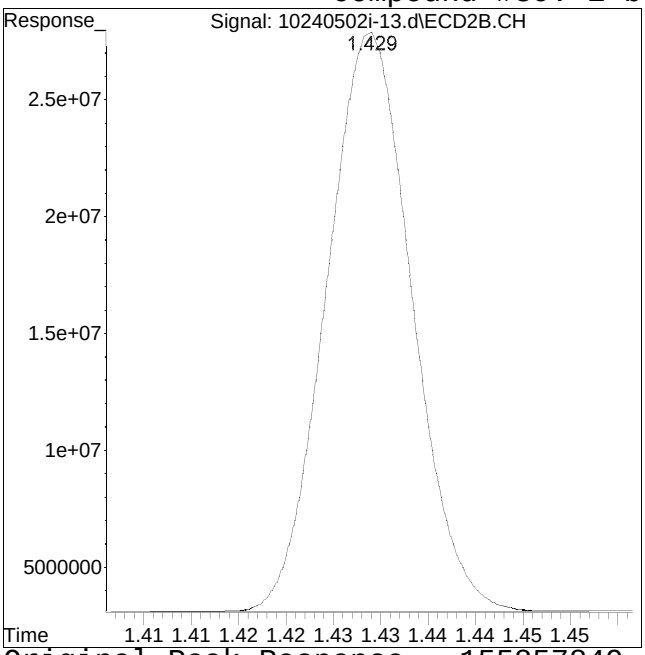
Original Peak Response = 430113064 Manual Peak Response = 429697342 M3

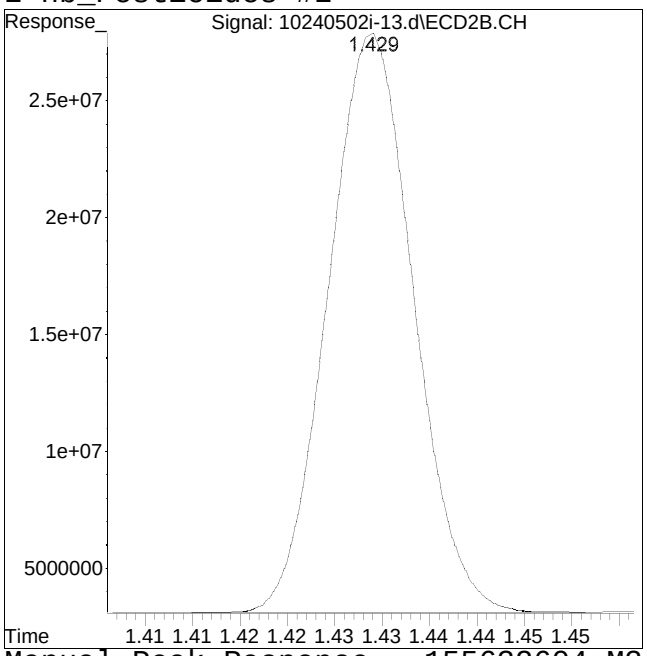
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #39: 1-br-2-nb_Pesticides #2



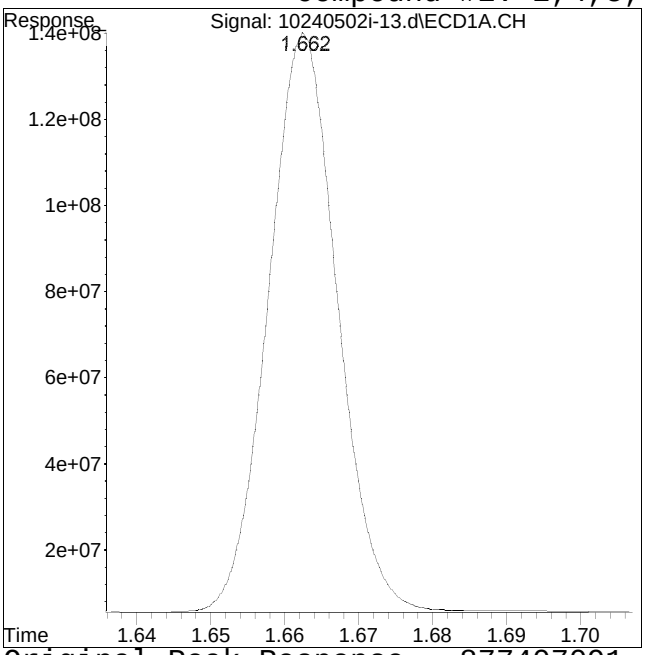


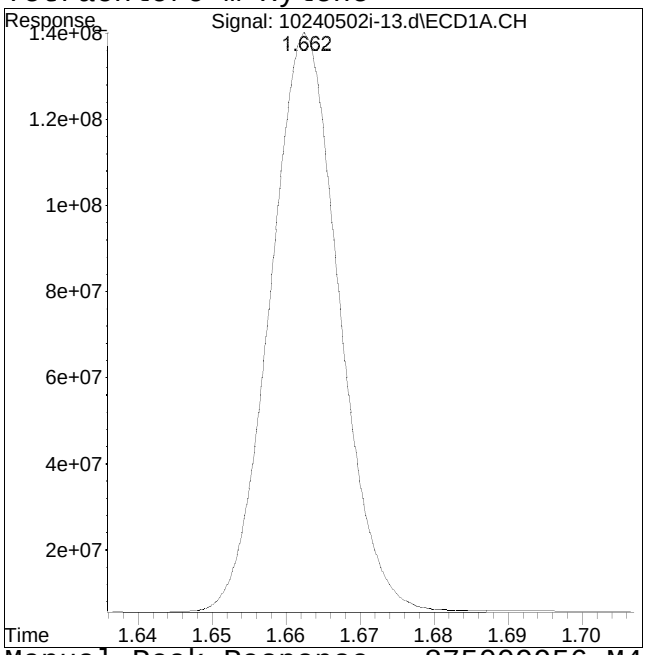
Original Peak Response = 155857849 Manual Peak Response = 155632604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



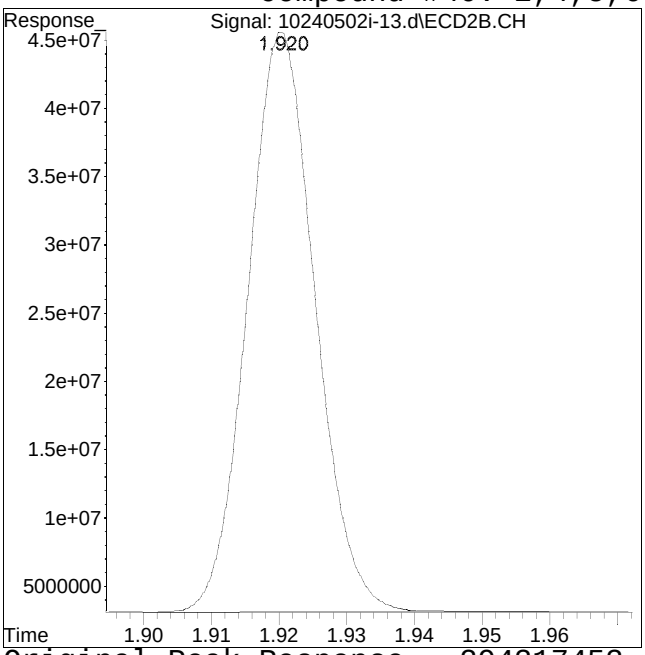


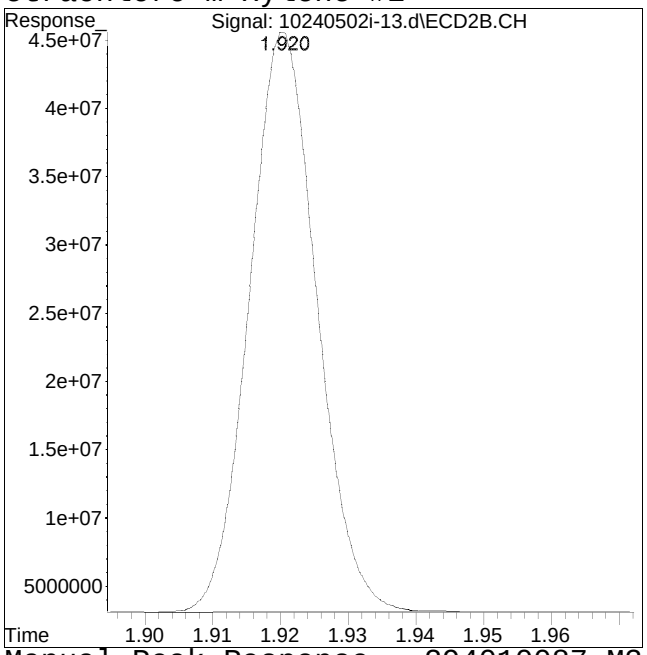
Original Peak Response = 877407091 Manual Peak Response = 875009956 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



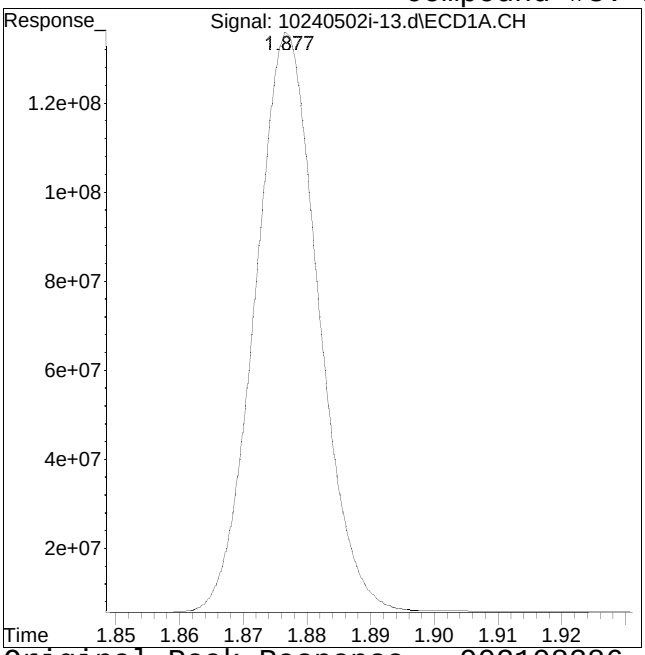


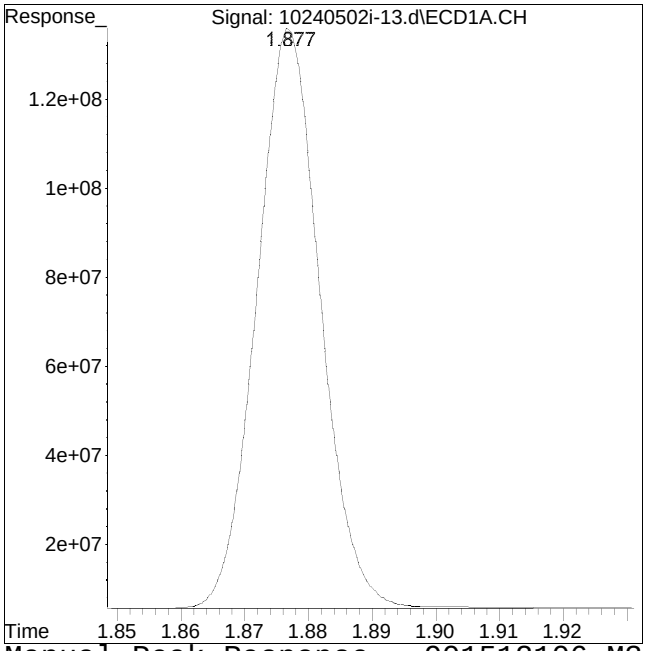
Original Peak Response = 294317453 Manual Peak Response = 294010087 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #3: Hexachlorobenzene



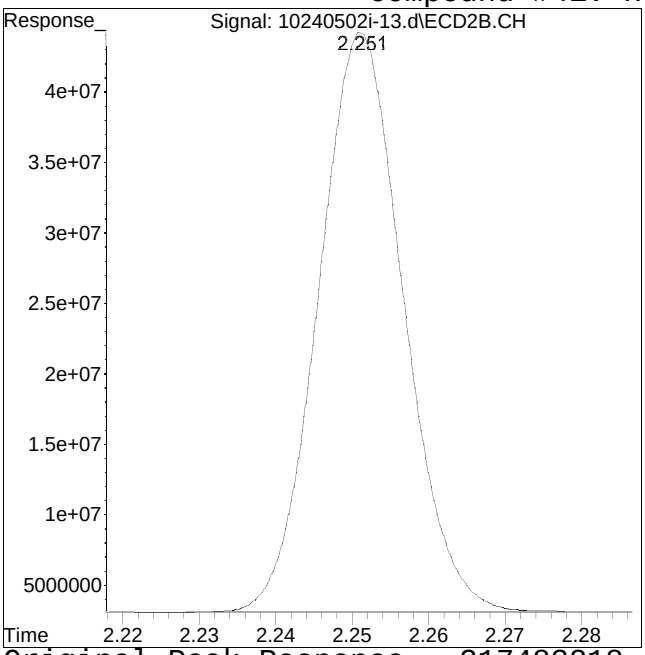


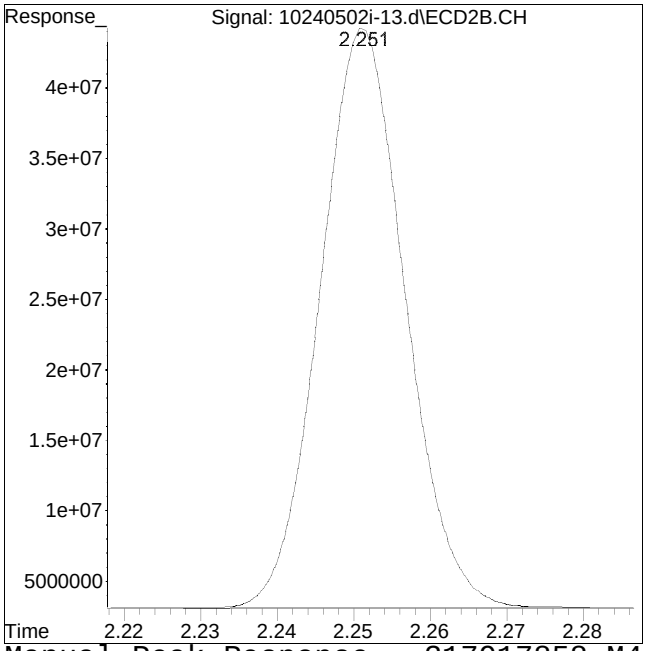
Original Peak Response = 902108386 Manual Peak Response = 901512106 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #41: Hexachlorobenzene #2



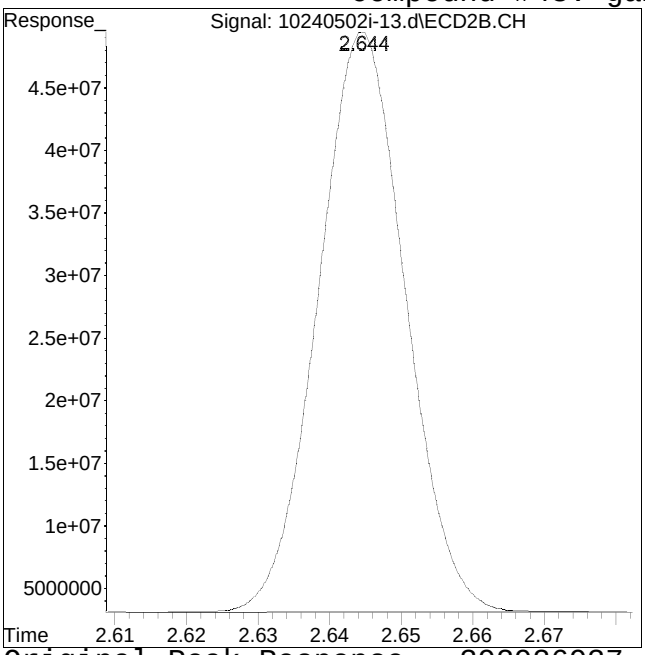


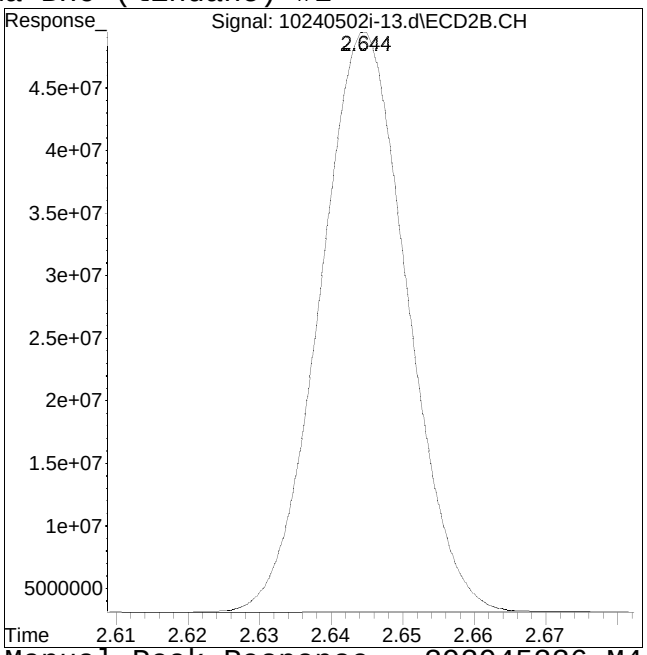
Original Peak Response = 317483218 Manual Peak Response = 317917858 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #43: gamma-BHC (lindane) #2



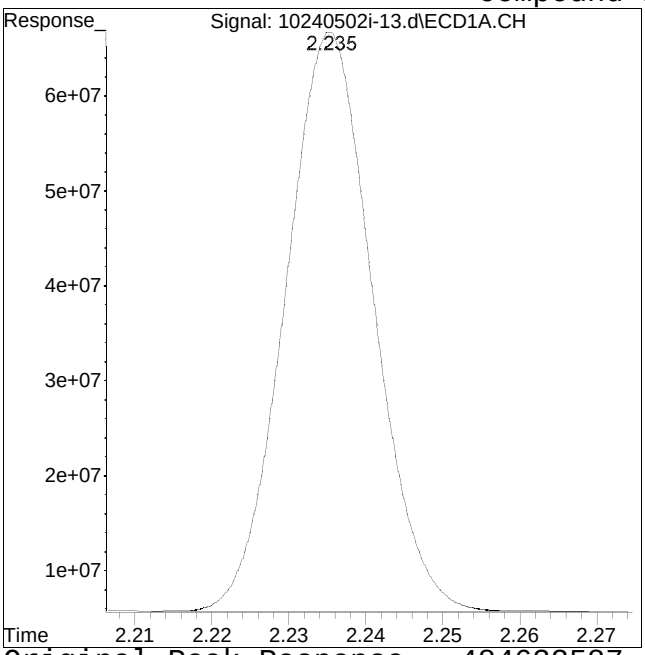


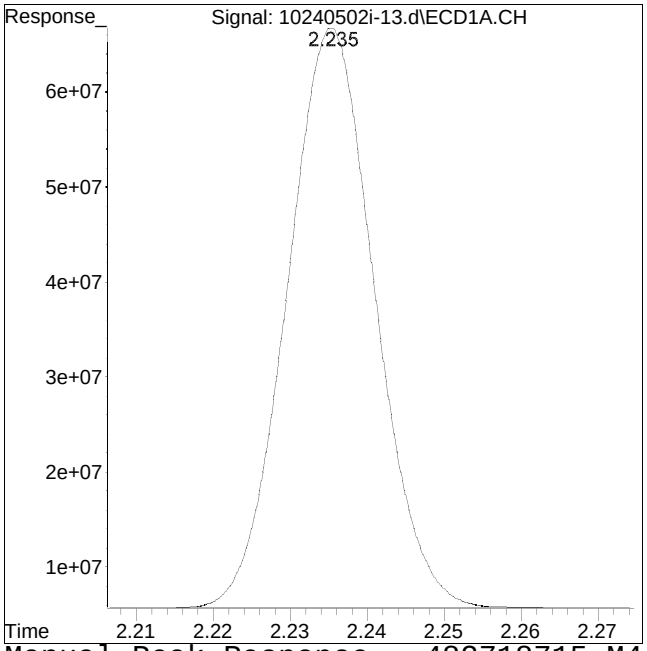
Original Peak Response = 392926937 Manual Peak Response = 392945336 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #6: beta-BHC



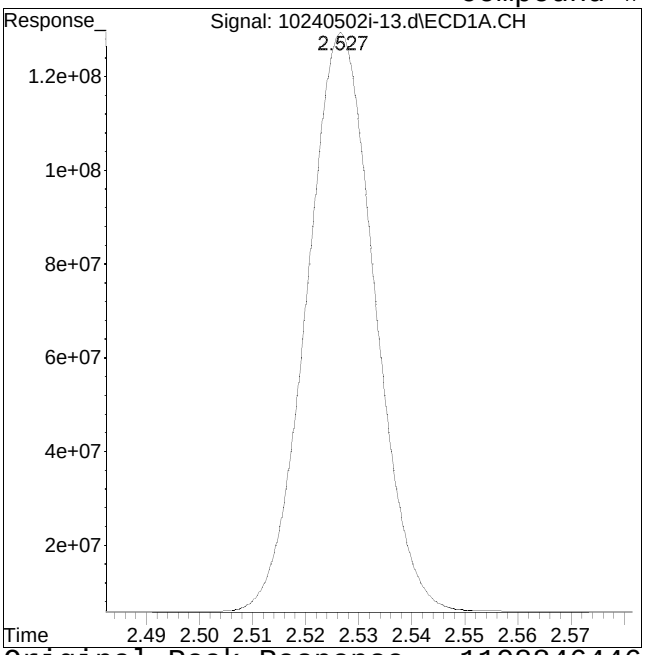


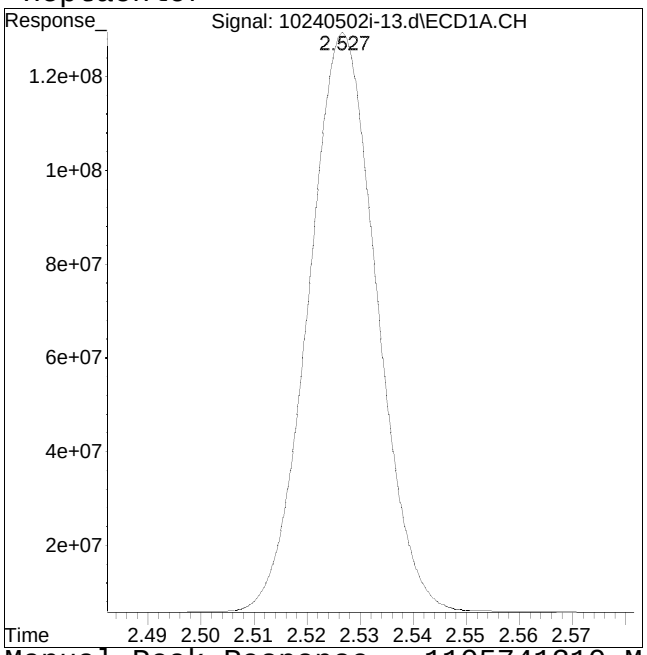
Original Peak Response = 484632587 Manual Peak Response = 482718715 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #8: Heptachlor



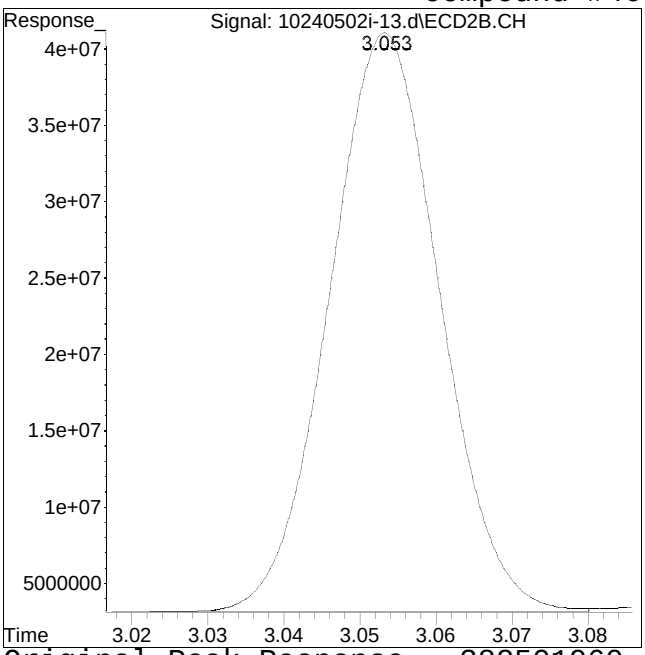


Original Peak Response = 1108846446 Manual Peak Response = 1105741310 M4
M4 = Poor automated baseline construction.

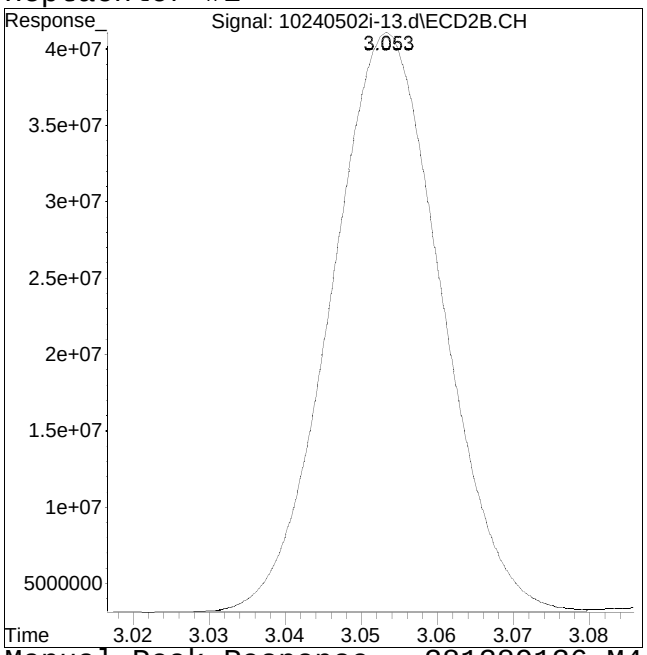
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #46: Heptachlor #2



Original Peak Response = 382501960



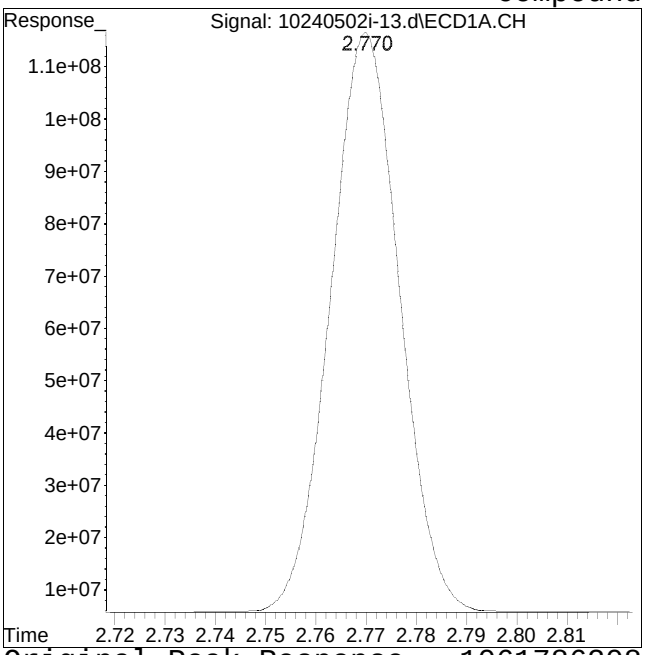
Manual Peak Response = 381389136 M4

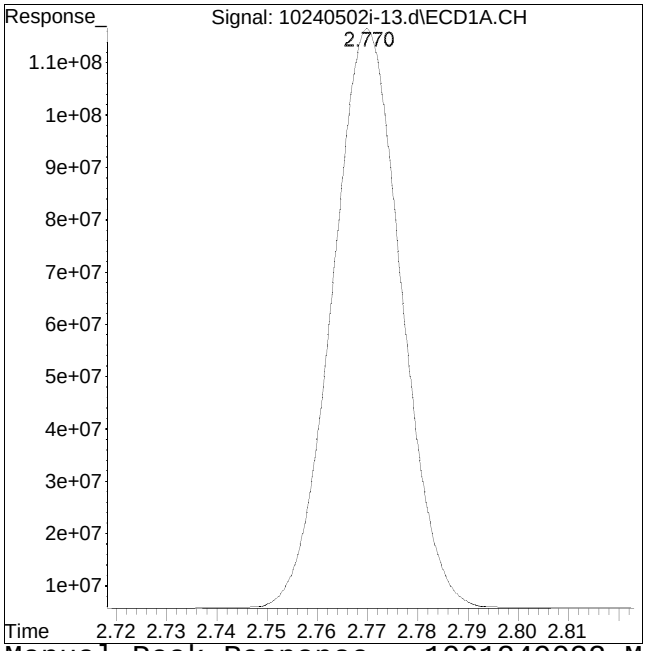
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #9: Aldrin



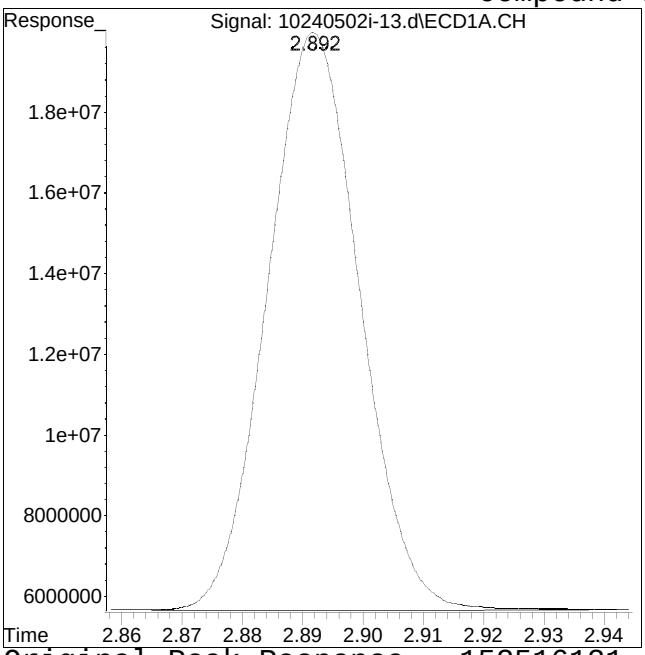


Original Peak Response = 1061786208 Manual Peak Response = 1061249032 M4
M4 = Poor automated baseline construction.

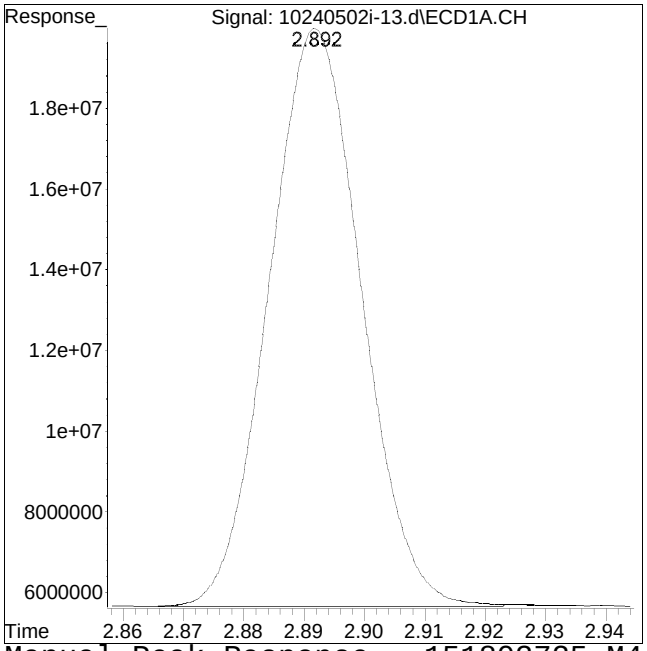
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #10: Alachlor



Original Peak Response = 152516121



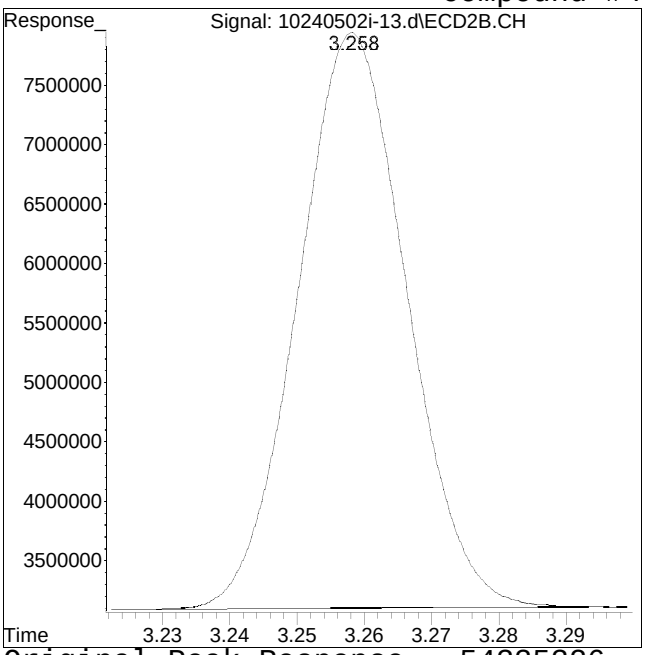
Manual Peak Response = 151803725 M4

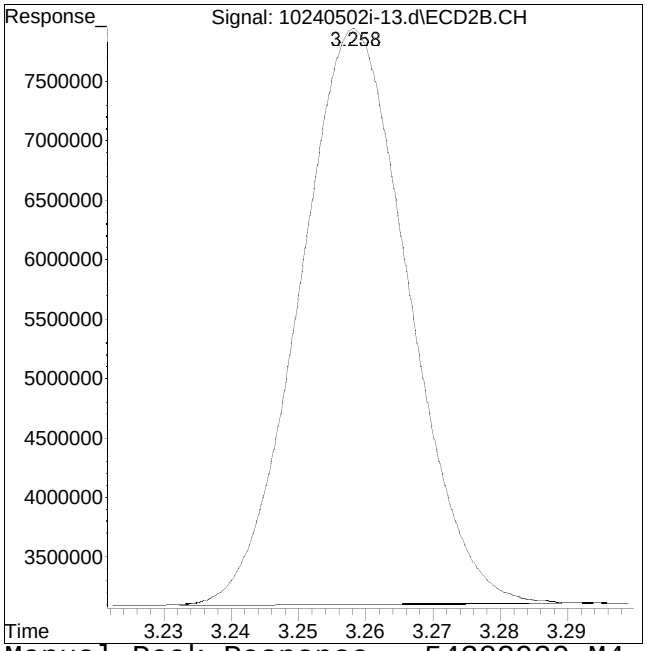
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #48: Alachlor #2



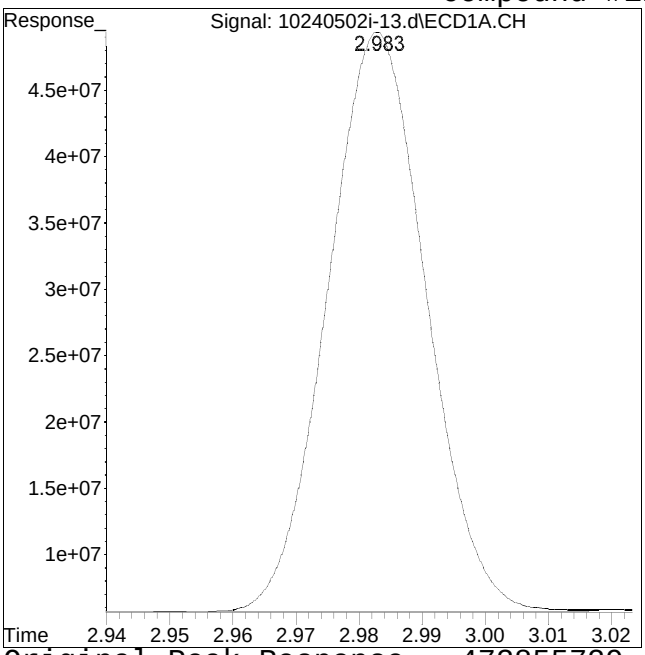


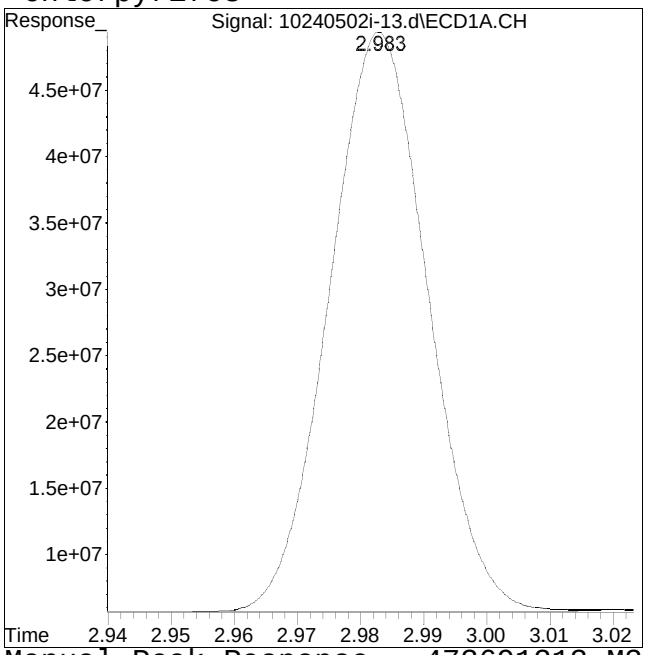
Original Peak Response = 54335326 Manual Peak Response = 54382920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #11: Chlorpyrifos



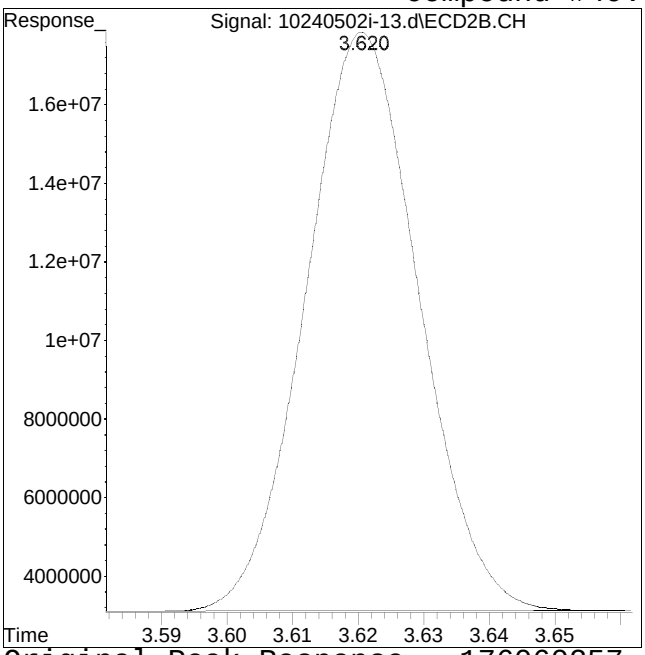


Original Peak Response = 473855729 Manual Peak Response = 473691213 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

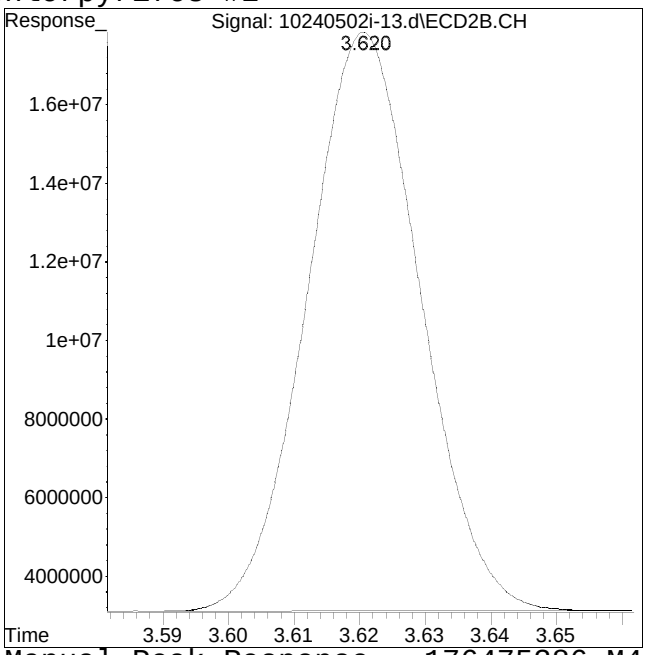
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 176060257



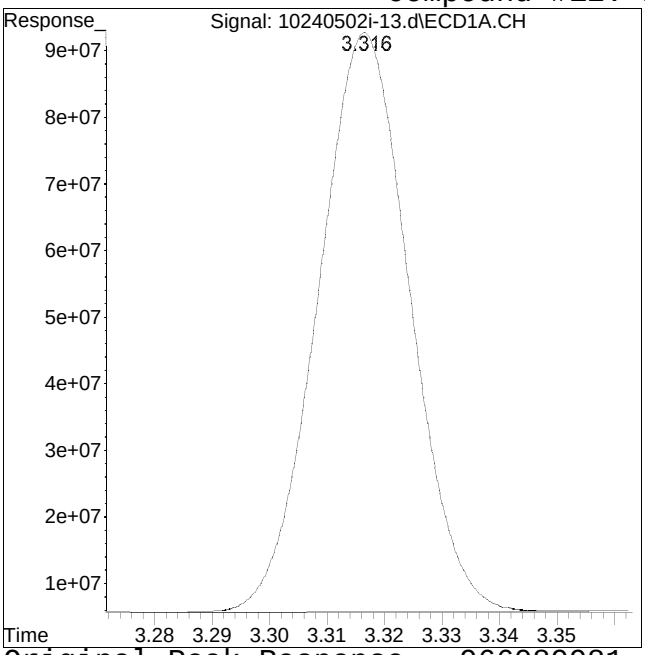
Manual Peak Response = 176475386 M4

M4 = Poor automated baseline construction.

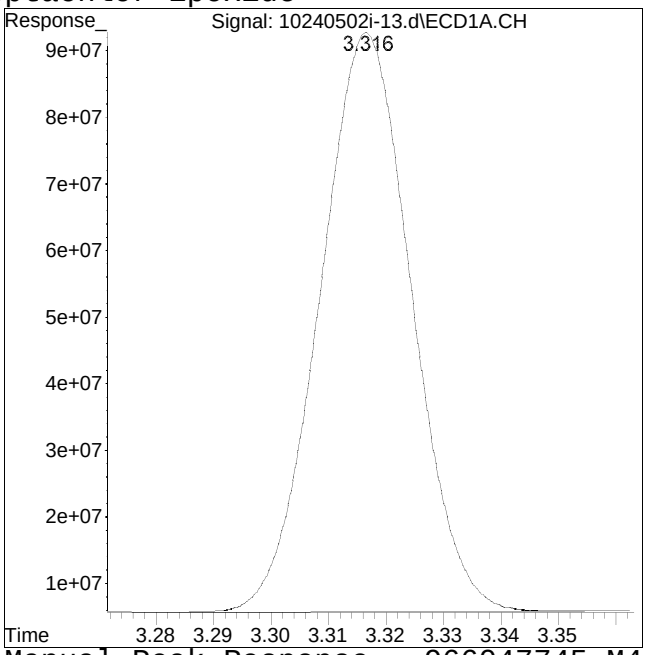
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 966089981



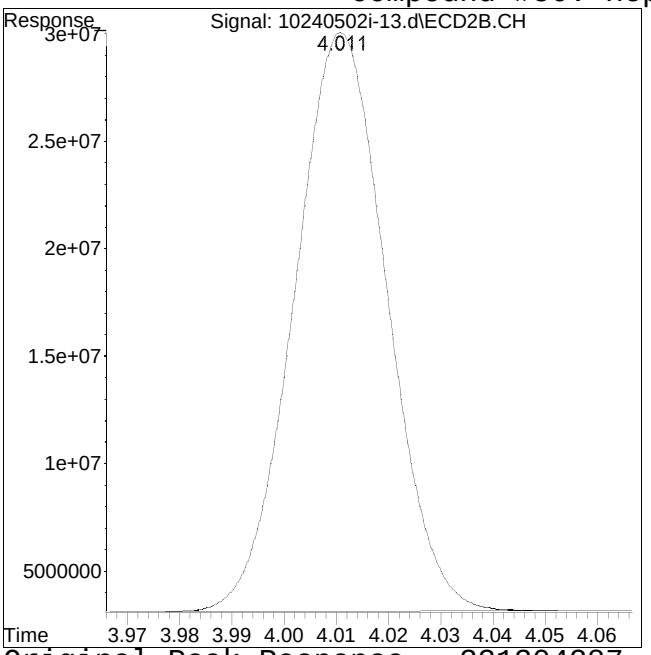
Manual Peak Response = 966047745 M4

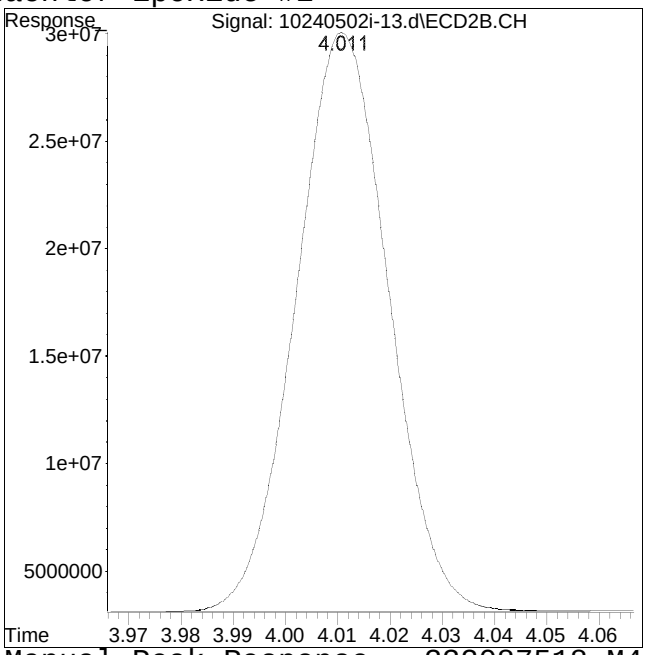
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #50: Heptachlor Epoxide #2



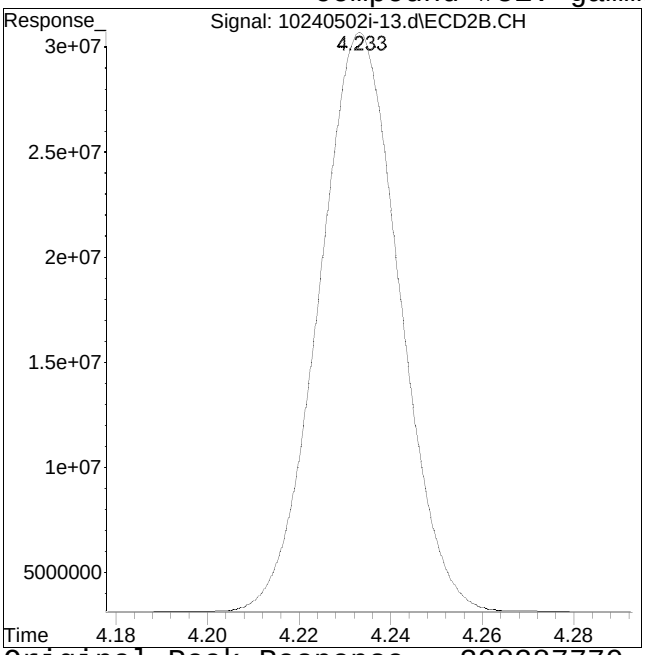


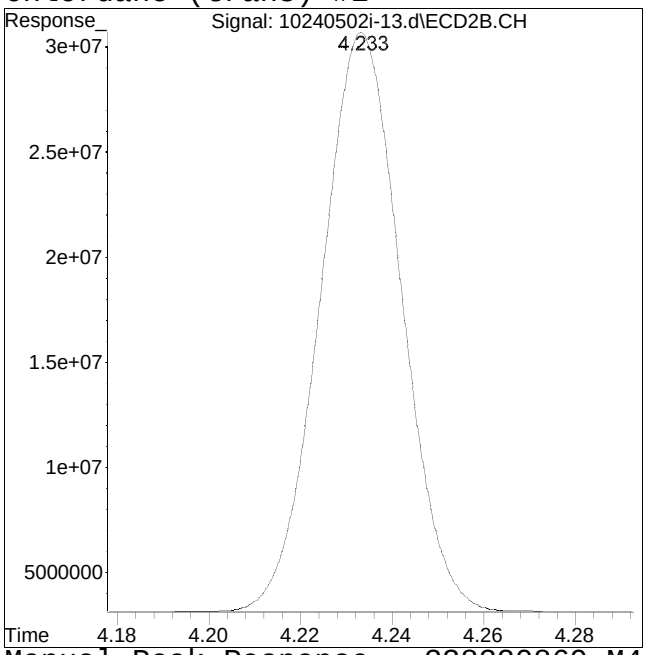
Original Peak Response = 331304287 Manual Peak Response = 332087518 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #51: gamma-Chlordane (trans) #2



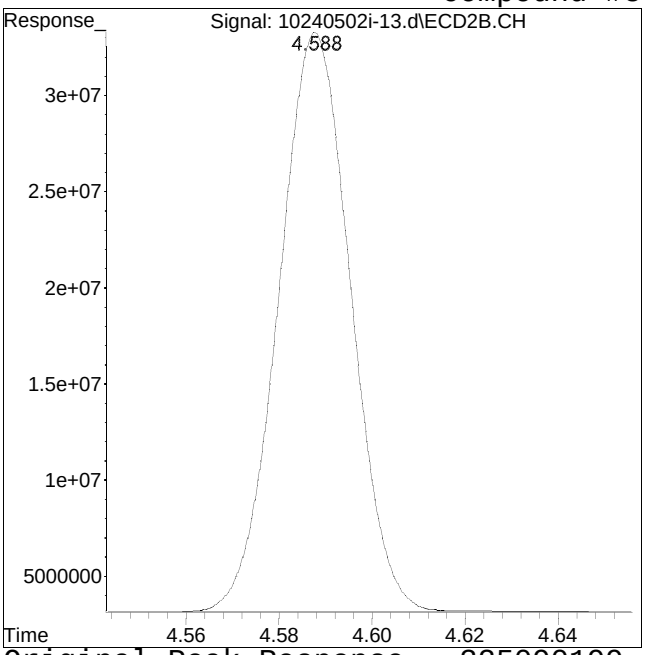


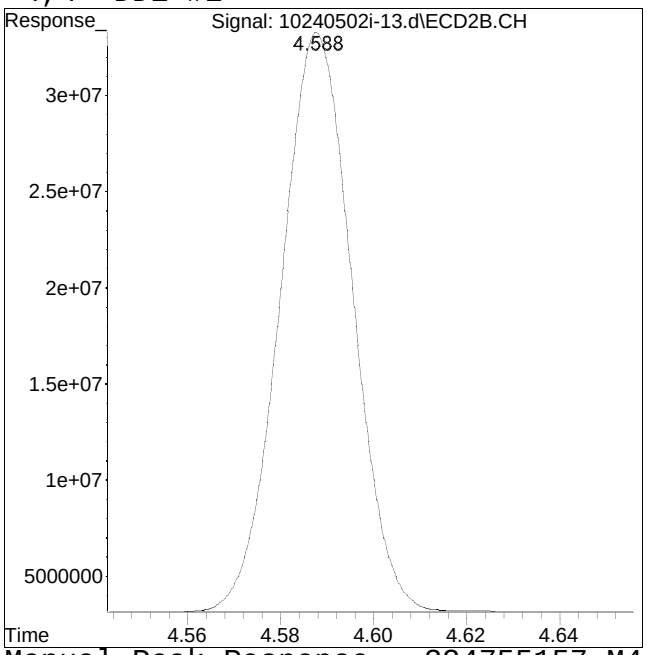
Original Peak Response = 338387770 Manual Peak Response = 338320869 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #53: 4,4'-DDE #2



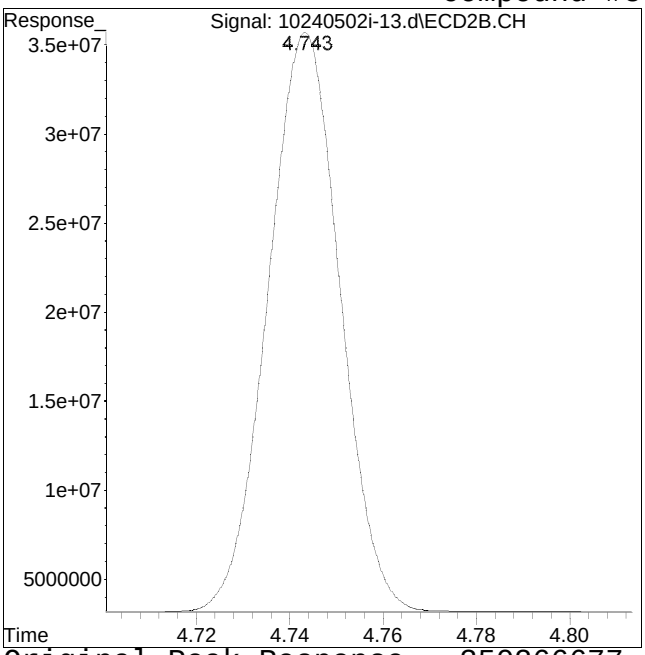


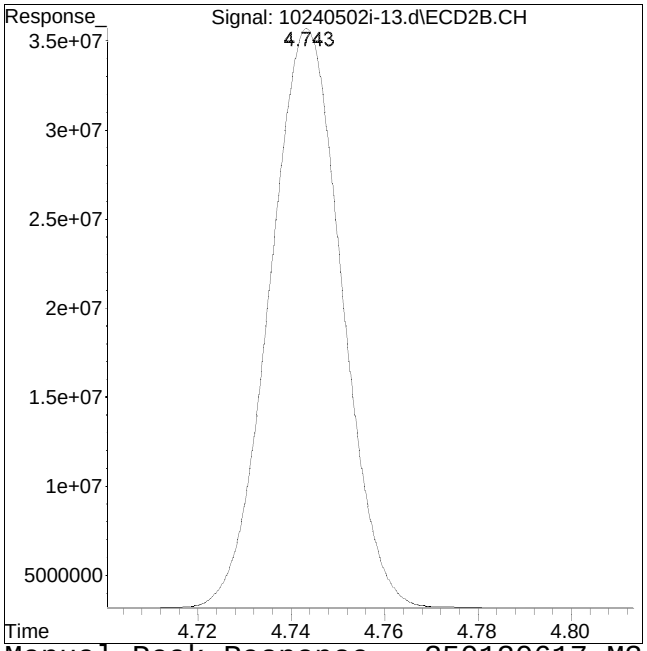
Original Peak Response = 325090199 Manual Peak Response = 324755157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #55: Dieldrin #2



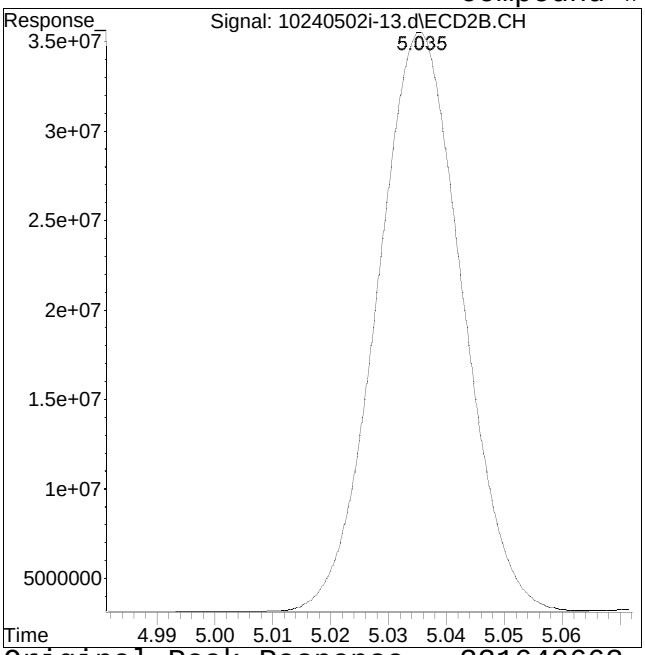


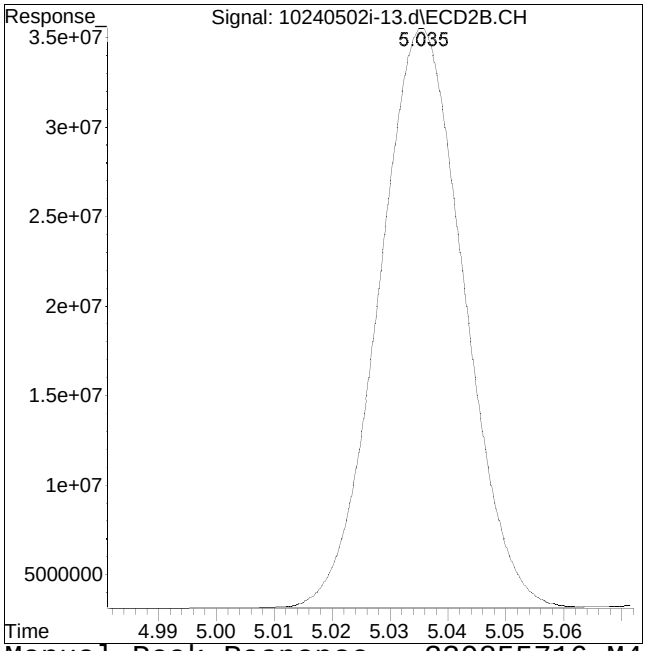
Original Peak Response = 350266677 Manual Peak Response = 350130617 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #56: Endrin #2



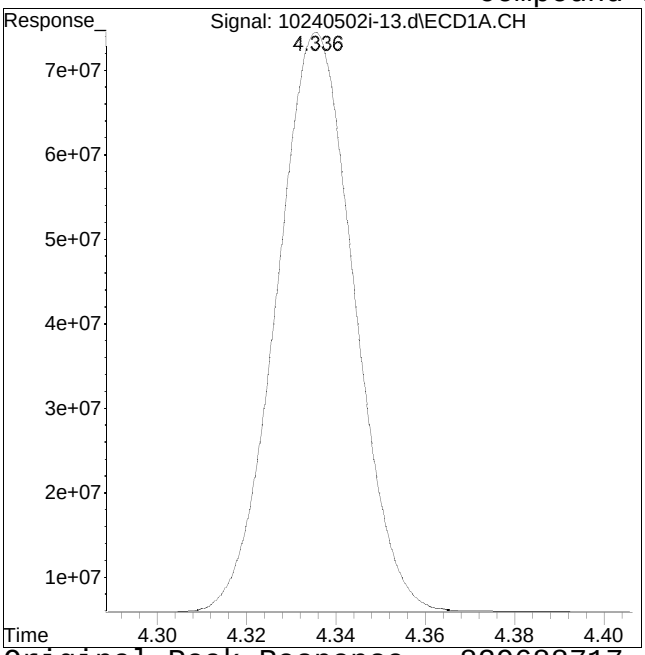


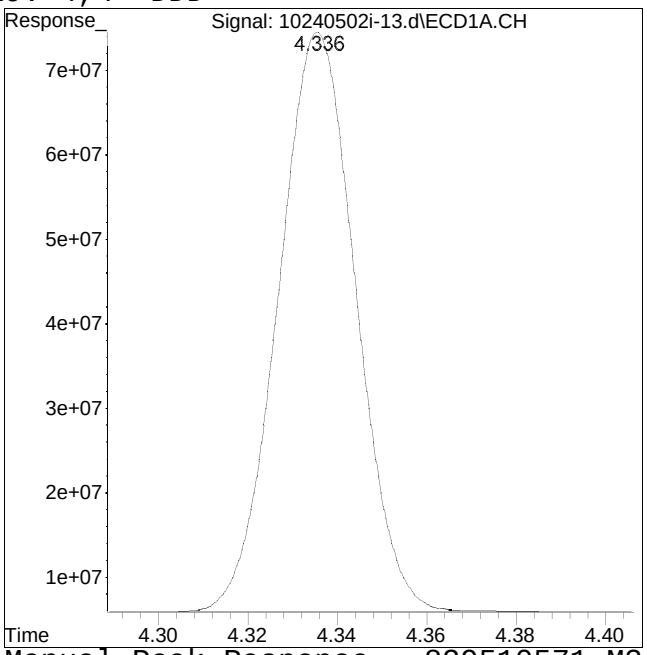
Original Peak Response = 331640663 Manual Peak Response = 330855716 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #19: 4,4'-DDD



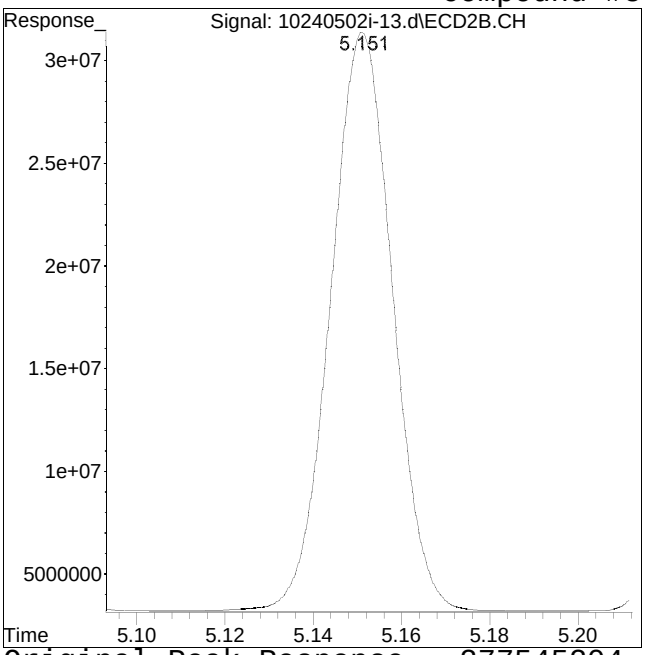


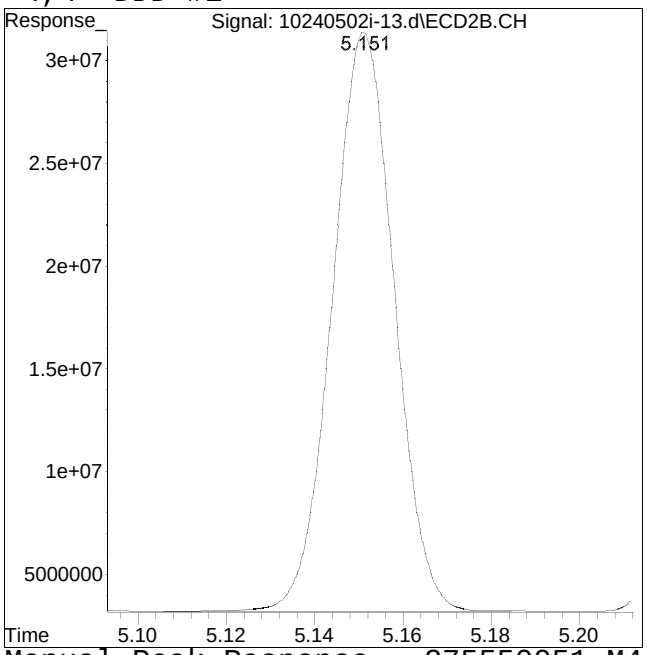
Original Peak Response = 829688717 Manual Peak Response = 829510571 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #57: 4,4'-DDD #2



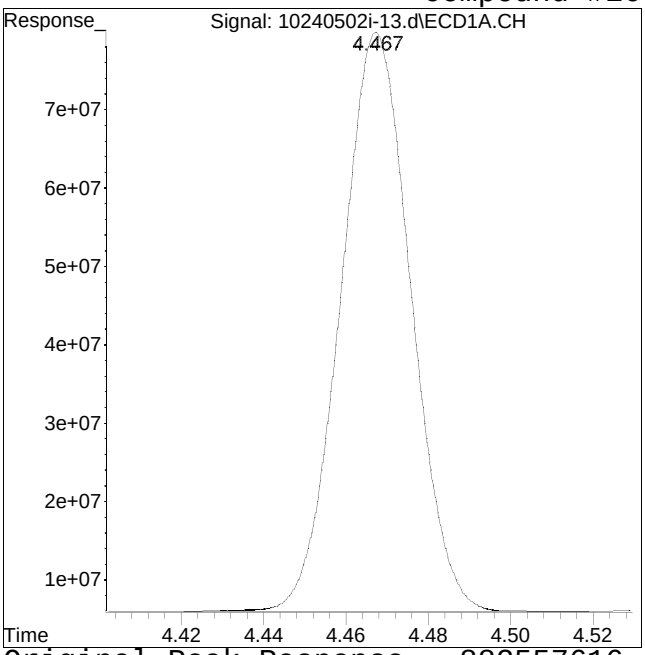


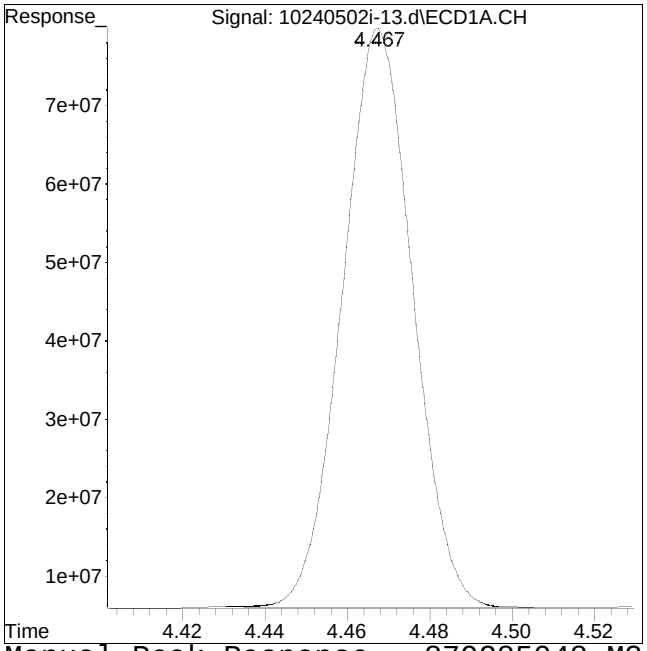
Original Peak Response = 277545204 Manual Peak Response = 275550051 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #20: Endosulfan II



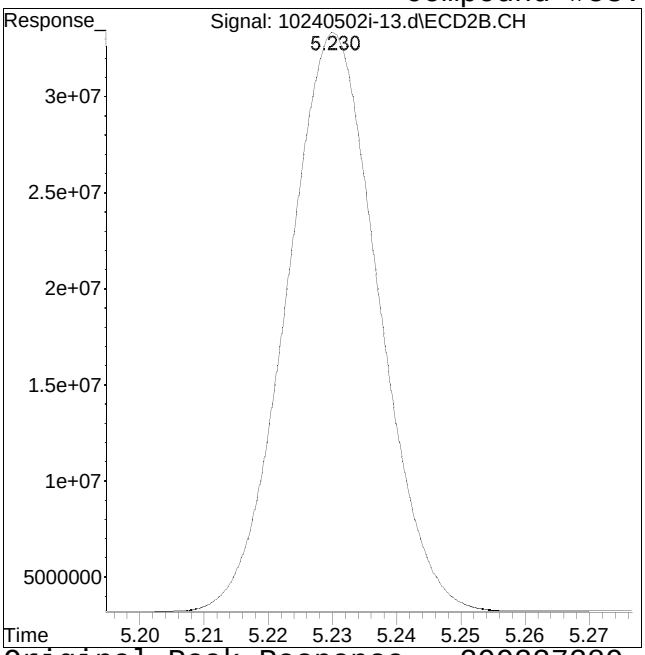


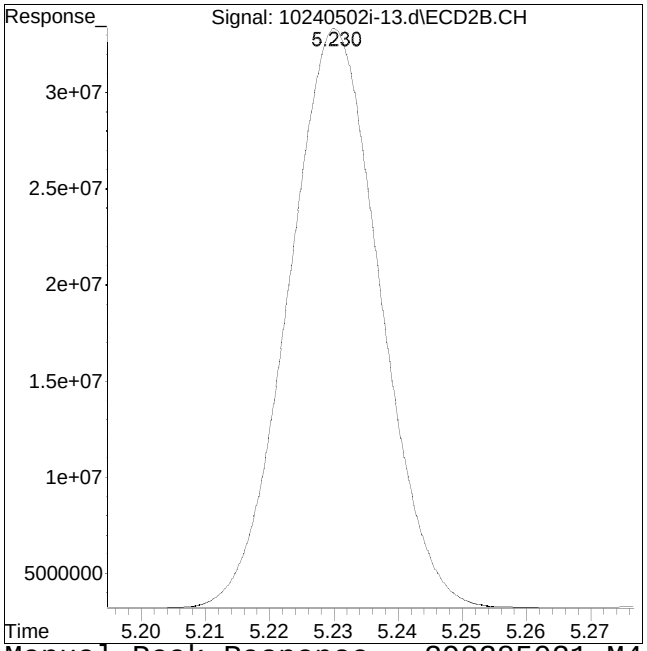
Original Peak Response = 882557616 Manual Peak Response = 879285048 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #58: Endosulfan II #2



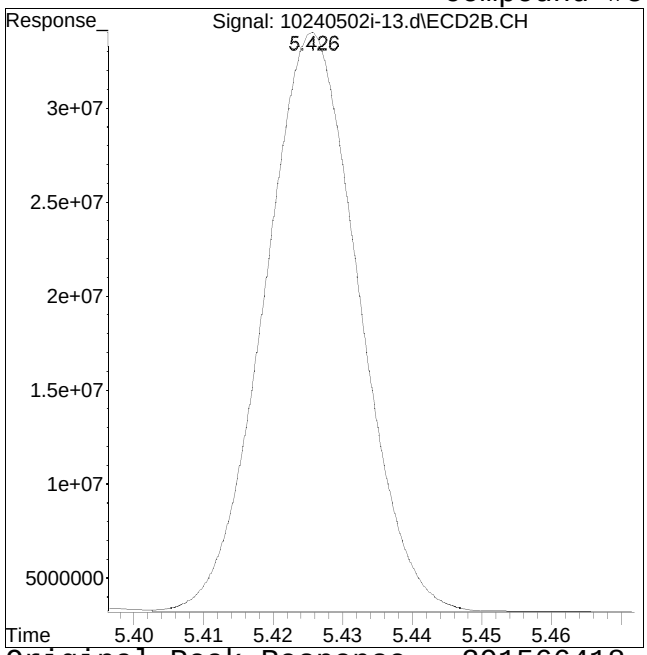


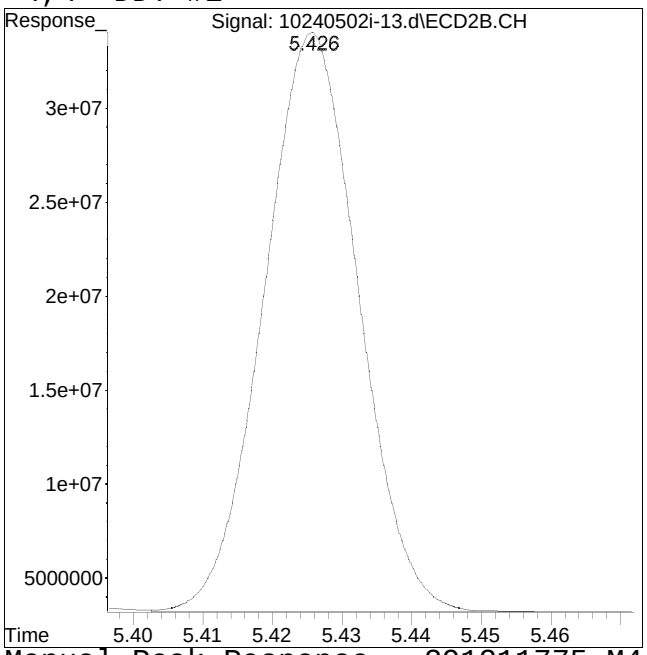
Original Peak Response = 299337389 Manual Peak Response = 298385021 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #59: 4,4'-DDT #2



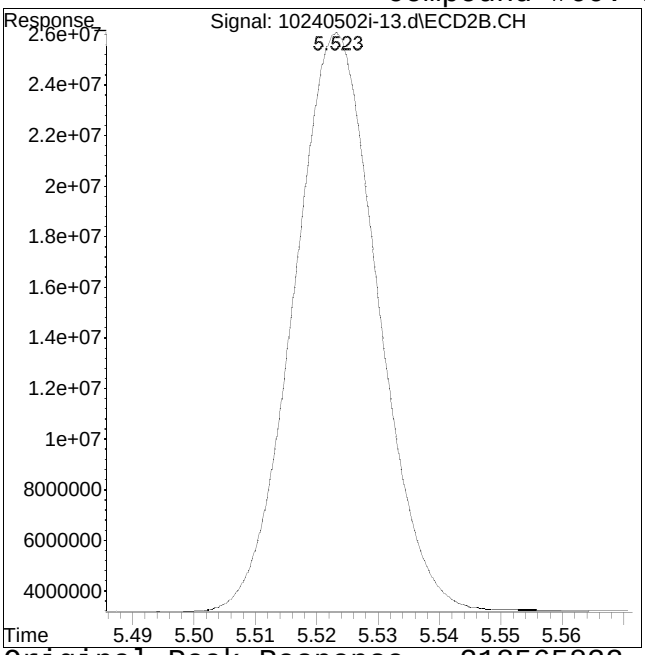


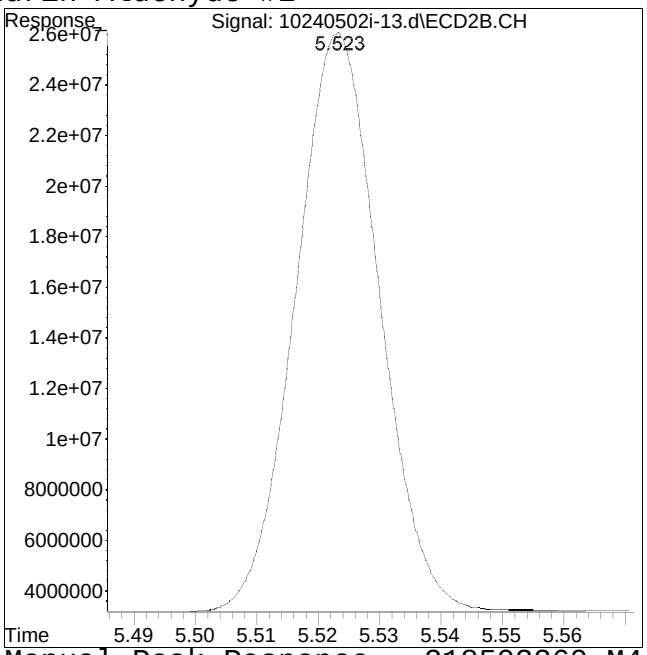
Original Peak Response = 291566418 Manual Peak Response = 291211775 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #60: Endrin Aldehyde #2



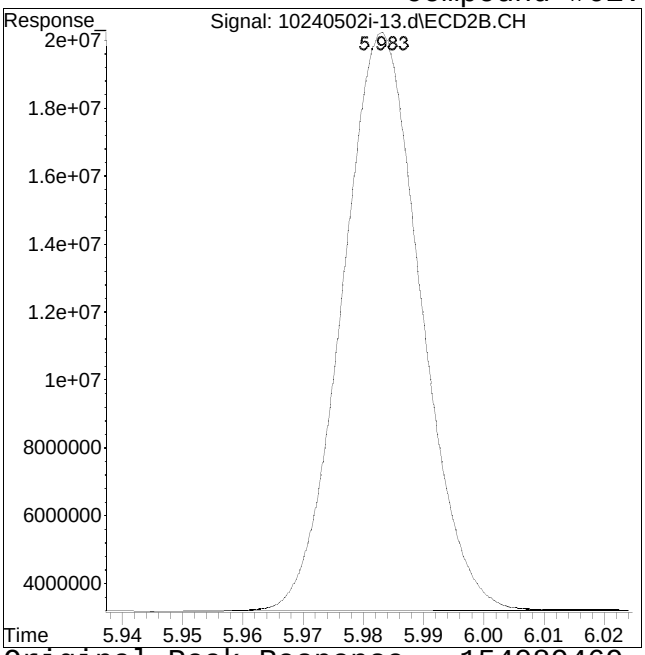


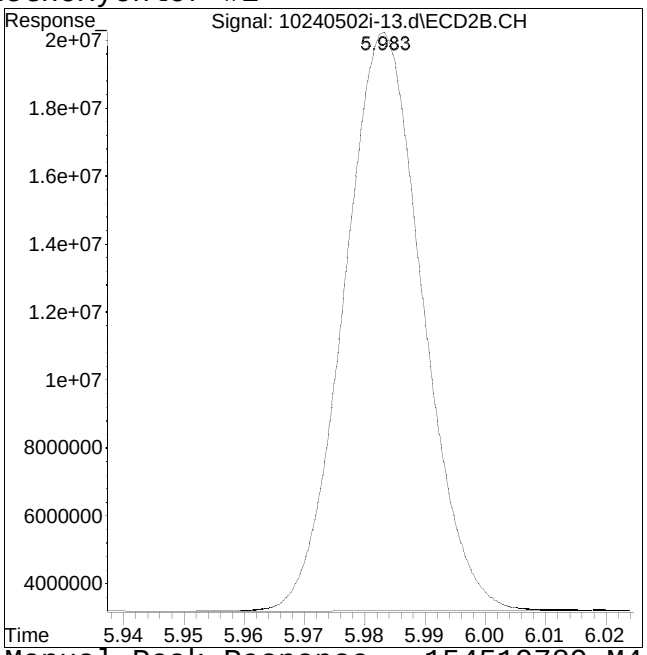
Original Peak Response = 218565832 Manual Peak Response = 218503260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #61: Methoxychlor #2



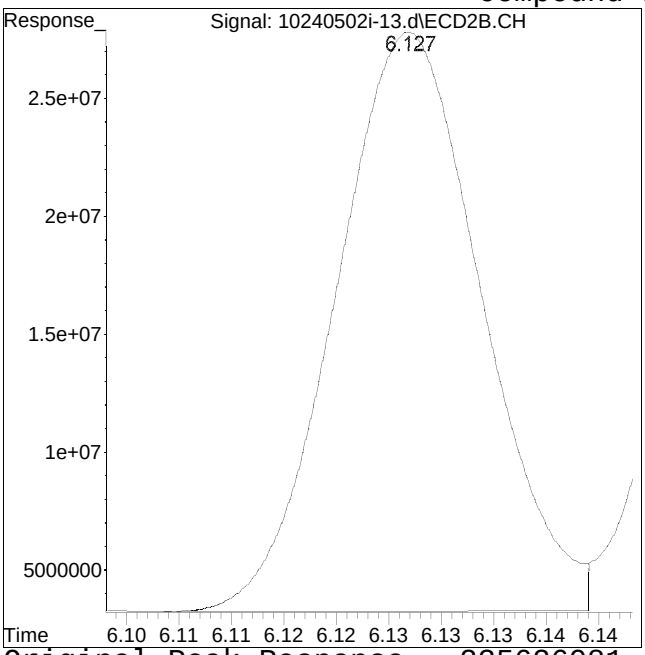


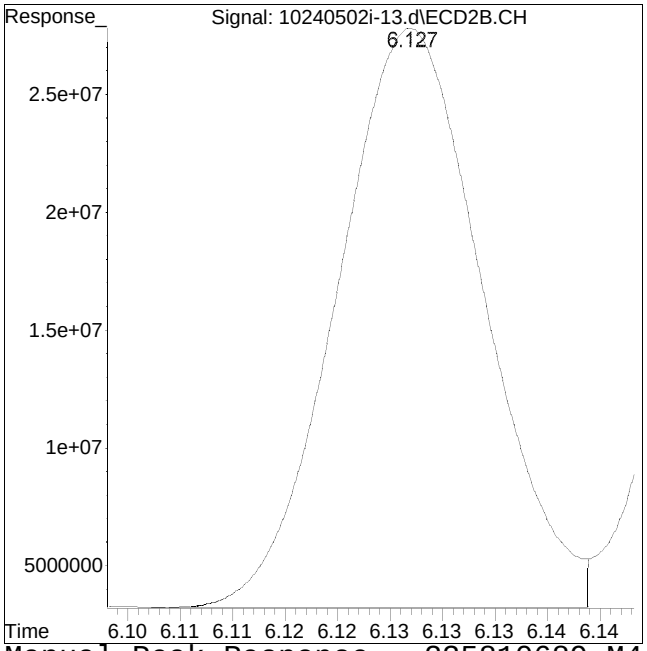
Original Peak Response = 154089469 Manual Peak Response = 154519789 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-13.d
Date Inj'd : 5/2/2024 5:58 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/9/2024 3:44 pm

Compound #62: Mirex #2



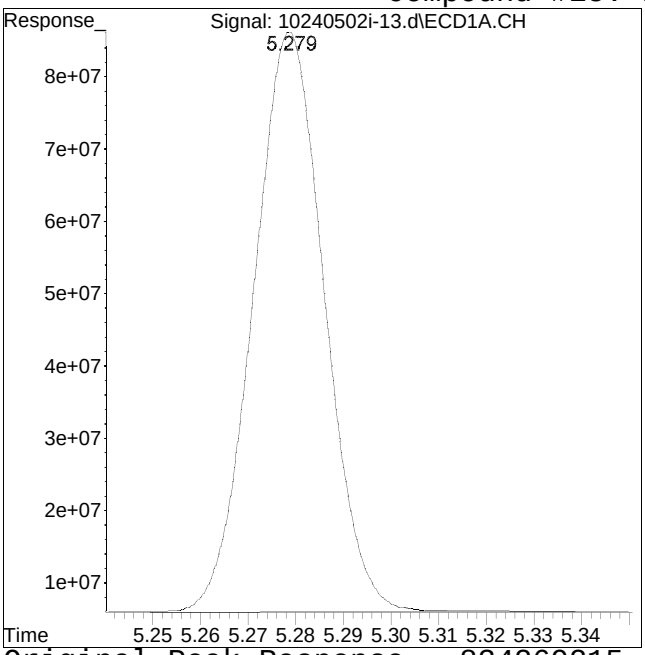


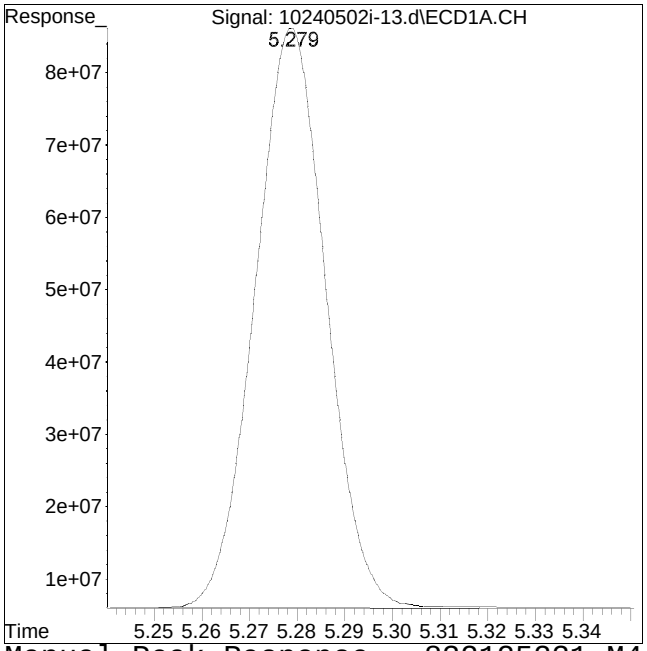
Original Peak Response = 235626981 Manual Peak Response = 235810689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #25: Endosulfan Sulfate



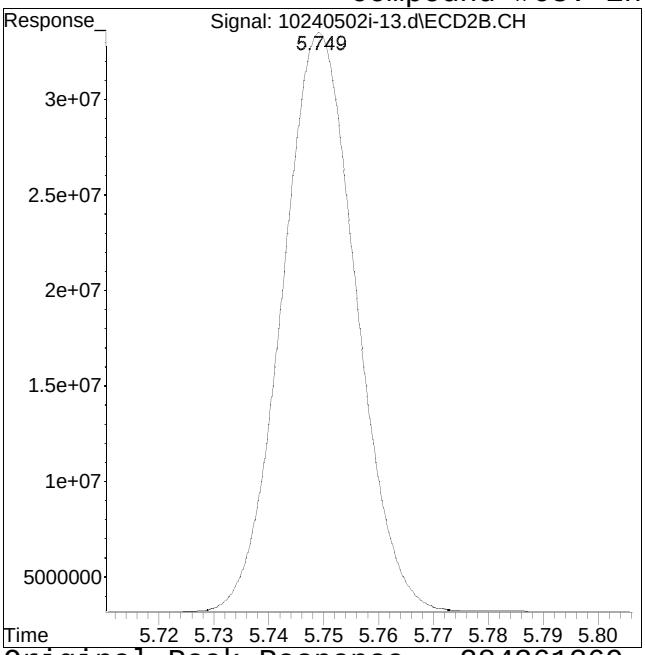


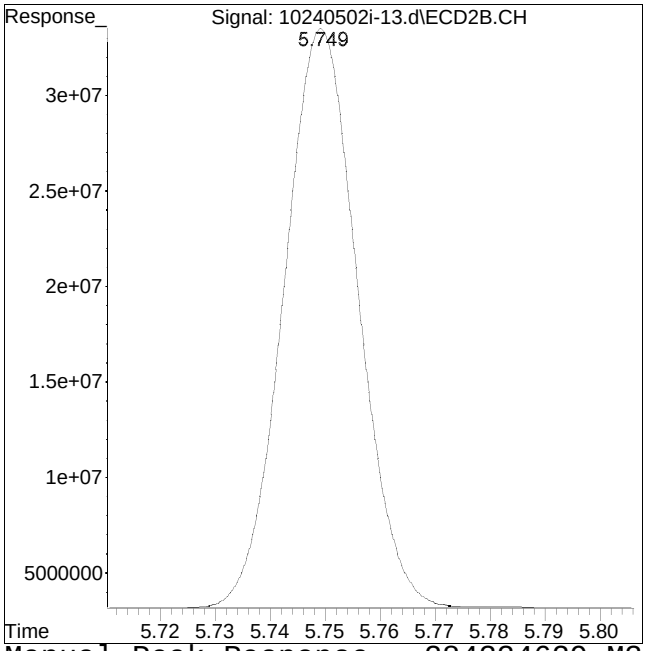
Original Peak Response = 834269215 Manual Peak Response = 832125231 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #63: Endosulfan Sulfate #2



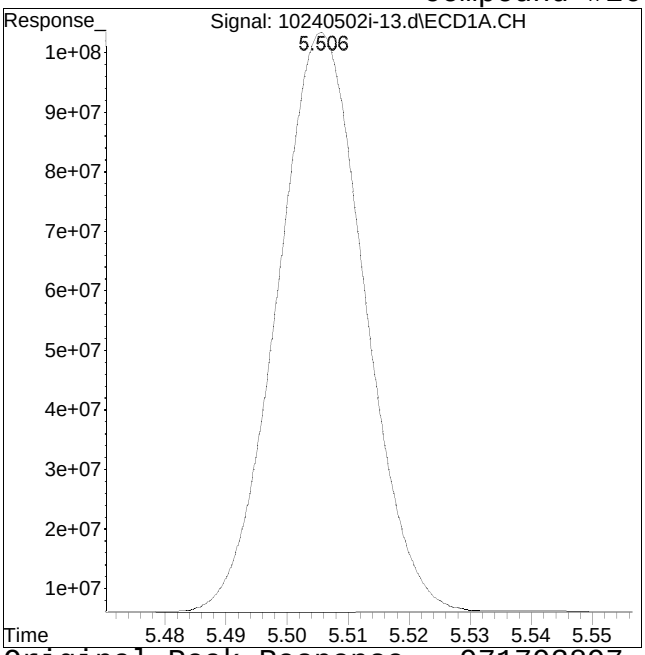


Original Peak Response = 284361369 Manual Peak Response = 284334629 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

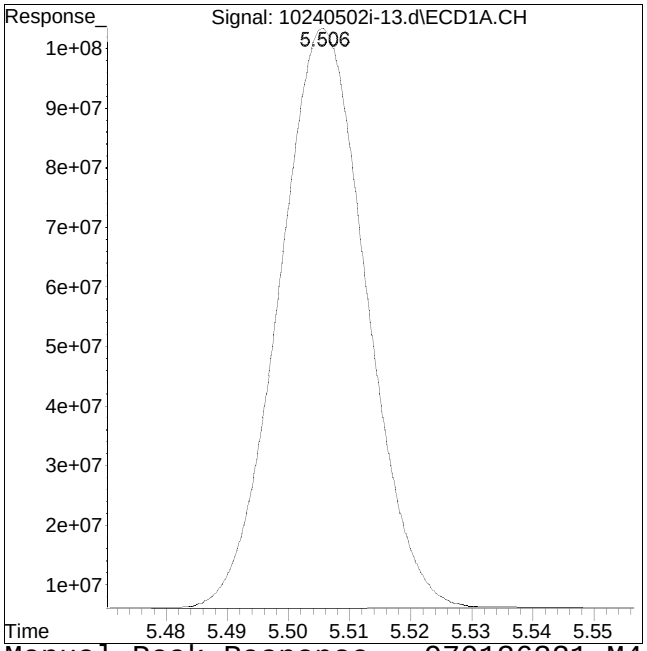
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #26: Endrin Ketone



Original Peak Response = 971793897



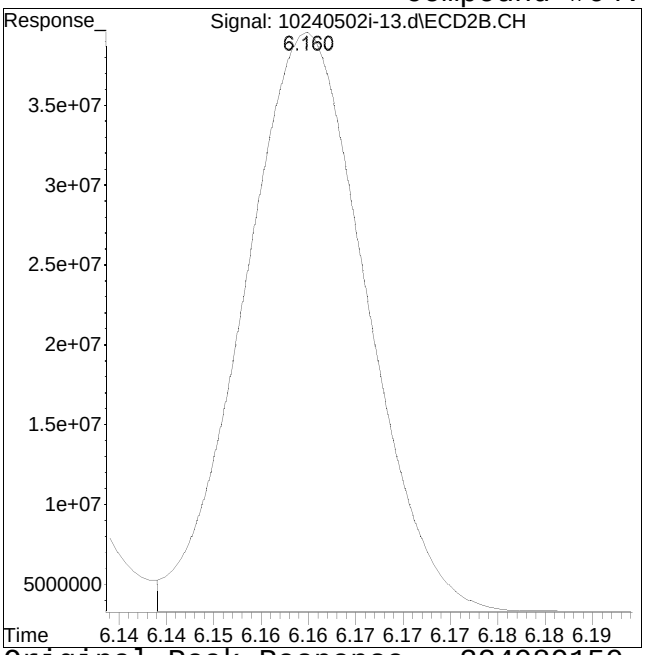
Manual Peak Response = 970136321 M4

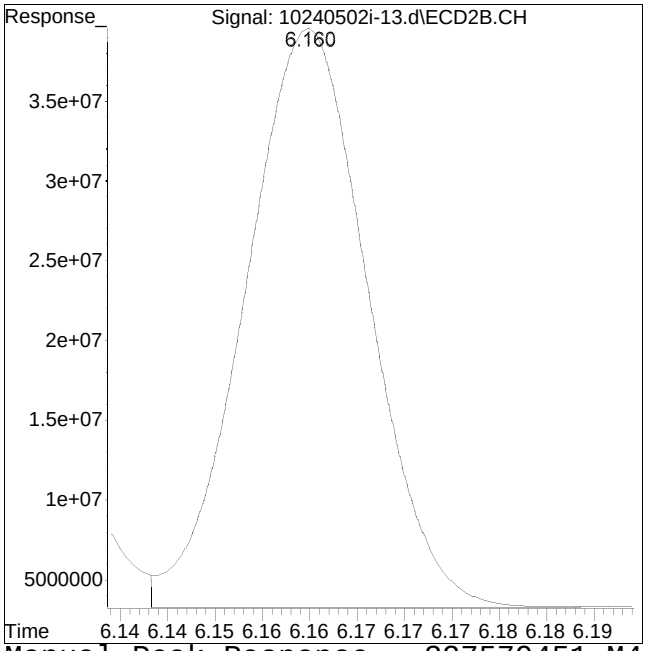
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #64: Endrin Ketone #2





Original Peak Response = 324989150 Manual Peak Response = 327579451 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:09 pm
Operator : PEST10:jag
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:59:07 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:58:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.317	1.428	360.3E6	128.9E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:09 pm
Operator : PEST10:jag
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:59:07 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:58:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.914	6940641	2272648	12.721	13.228
30) l1	chlordane-3	2.527	3.536	13432546	2897436	12.425	13.830M4
31) l1	chlordane-4	2.883	4.233	9013626	8325121	13.779	12.299
32) l1	chlordane-5	3.440	4.399	29670520	6857312	12.763	12.728
Sum	chlordane-1			59057334	20352517	NoCal	NoCal D
Average	chlordane-1					12.922	13.021
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

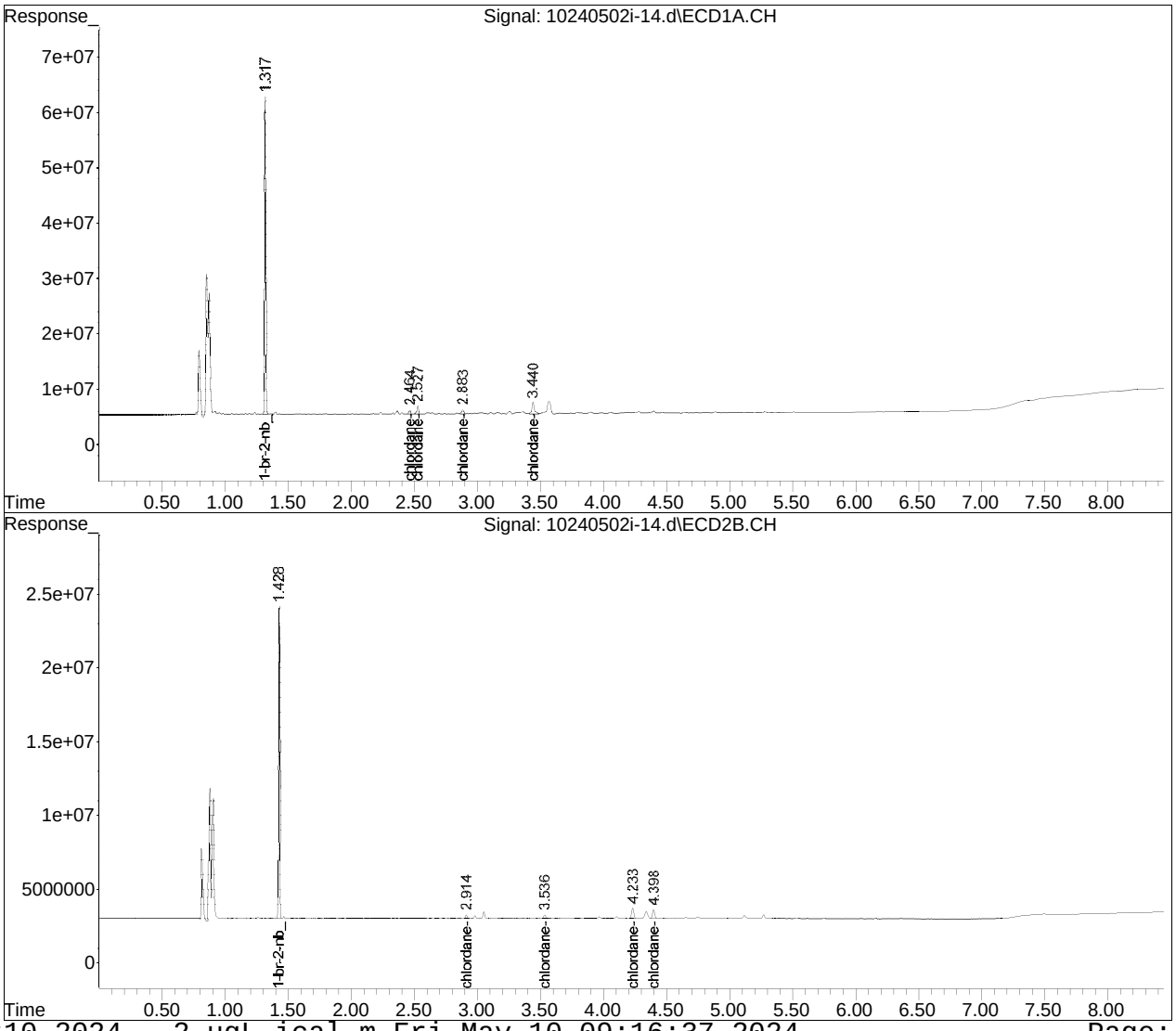
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:09 pm
Operator : PEST10:jag
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:59:07 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:58:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

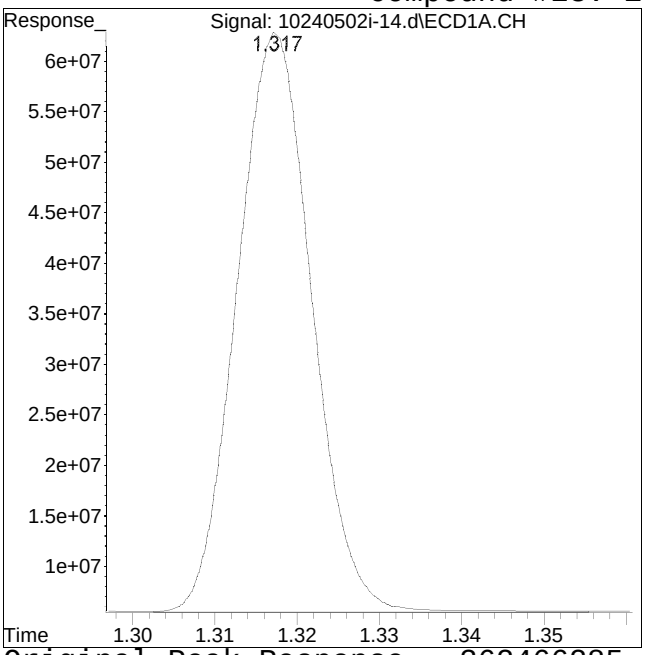
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

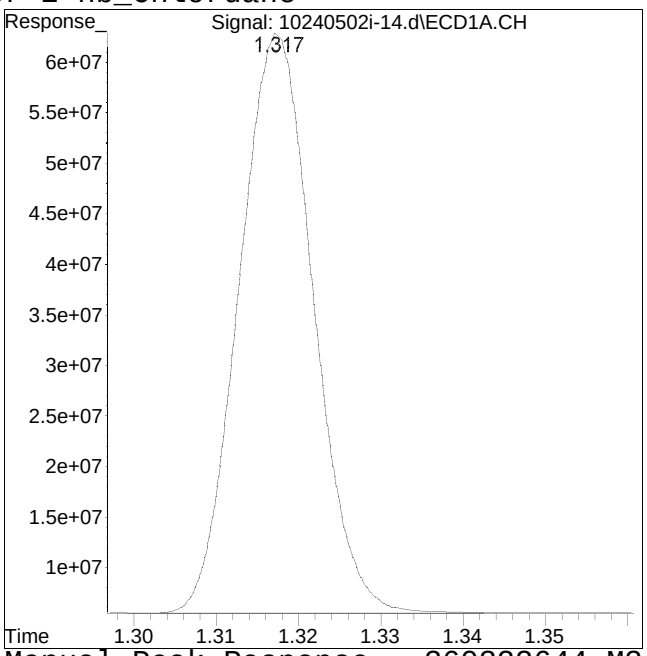


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-14.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:09 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/7/2024 5:59 pm

Compound #28: 1-br-2-nb_Chlordane



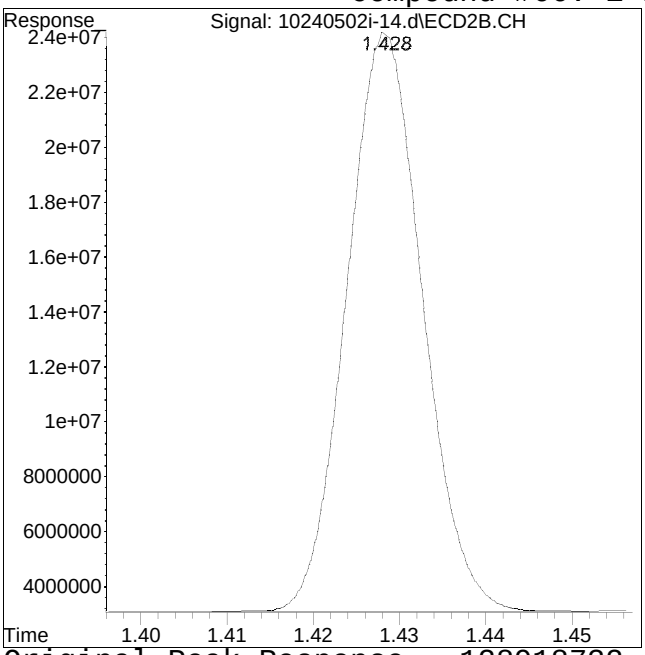


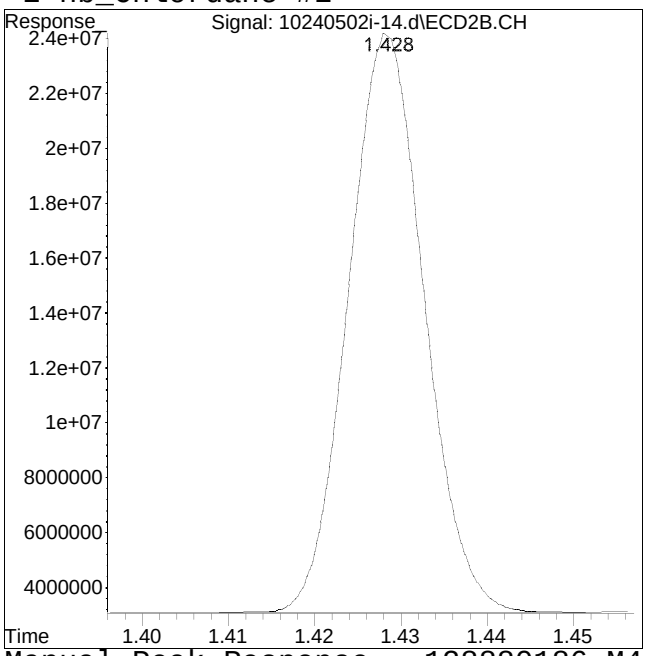
Original Peak Response = 362466285 Manual Peak Response = 360323644 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-14.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:09 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/7/2024 5:59 pm

Compound #66: 1-br-2-nb_Chlordane #2





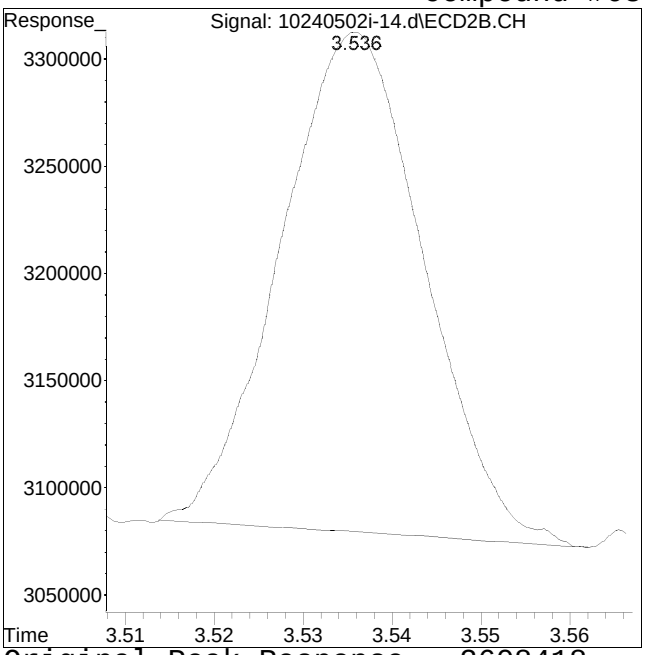
Original Peak Response = 128918732 Manual Peak Response = 128880186 M4
M4 = Poor automated baseline construction.

Manual Integration Report

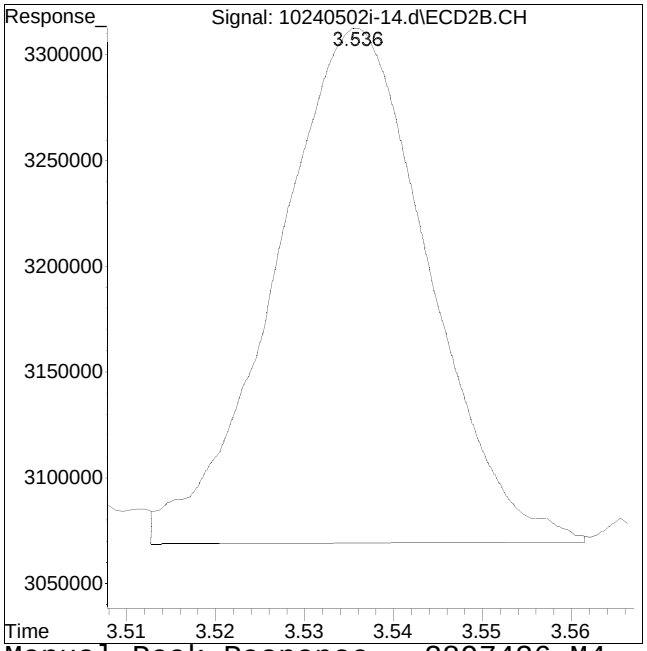
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-14.d
Date Inj'd : 5/2/2024 6:09 pm
Sample : il3chlor,42e,,pp 11509 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:59 pm

Compound #68: chlordane-3 #2



Original Peak Response = 2608418



Manual Peak Response = 2897436 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:20 pm
Operator : PEST10:jag
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:57:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.318	1.428	357.4E6	125.8E6	25.000M3	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:20 pm
Operator : PEST10:jag
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:57:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.465	2.915	13161108	4184874	25.419	26.253
30) l1	chlordane-3	2.527	3.536	25778382	5544856	25.054	29.190M4
31) l1	chlordane-4	2.884	4.233	16576241	15278597	27.051	23.867
32) l1	chlordane-5	3.440	4.399	55263336	12620038	24.959	24.995
Sum	chlordane-1			110.8E6	37628365	NoCal	NoCal D
Average	chlordane-1					25.621	26.076
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

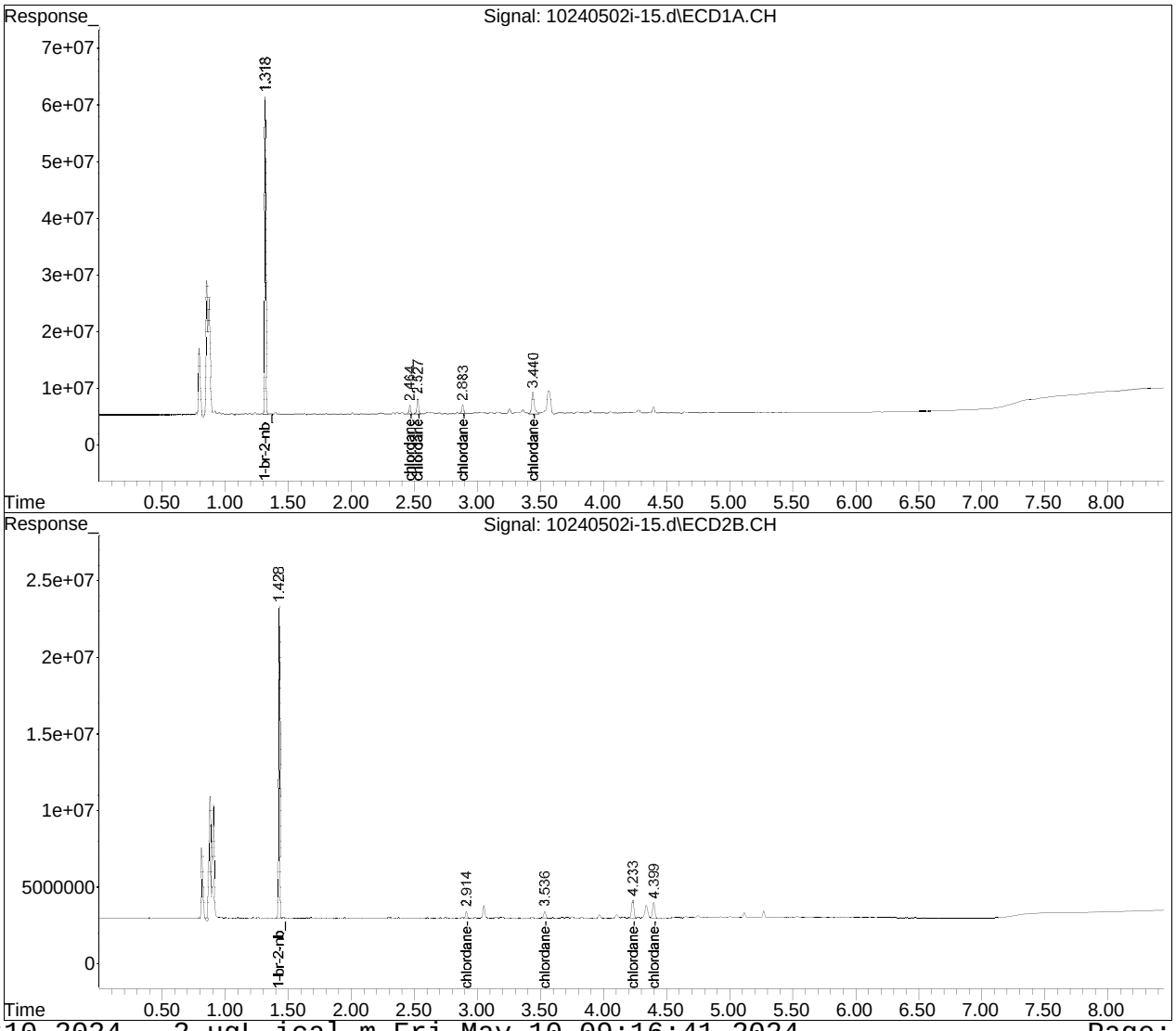
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:20 pm
Operator : PEST10:jag
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:57:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

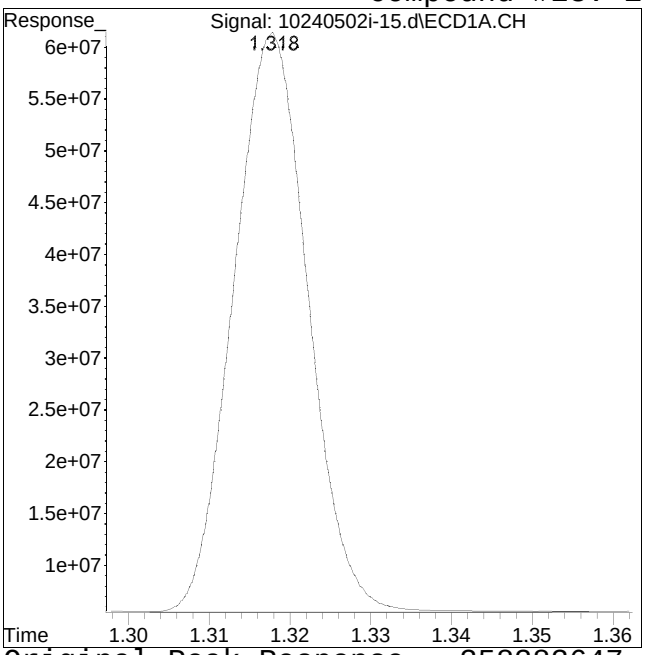
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

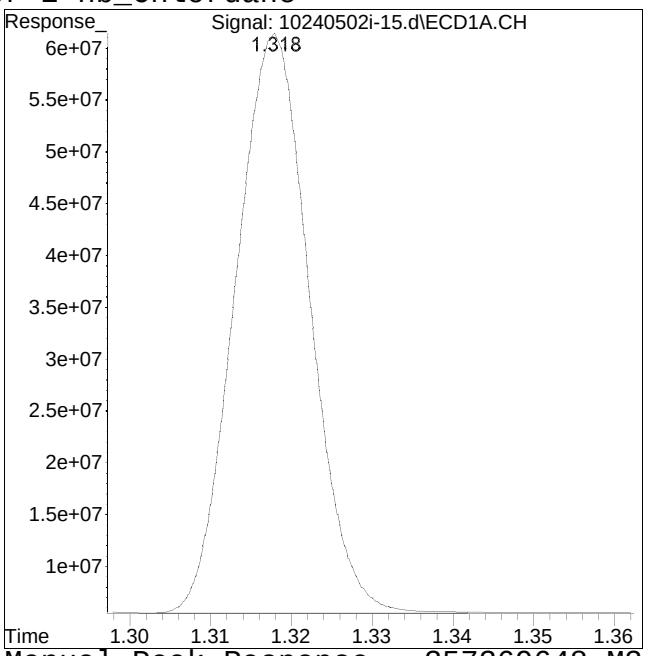


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-15.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:20 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/7/2024 5:57 pm

Compound #28: 1-br-2-nb_Chlordane



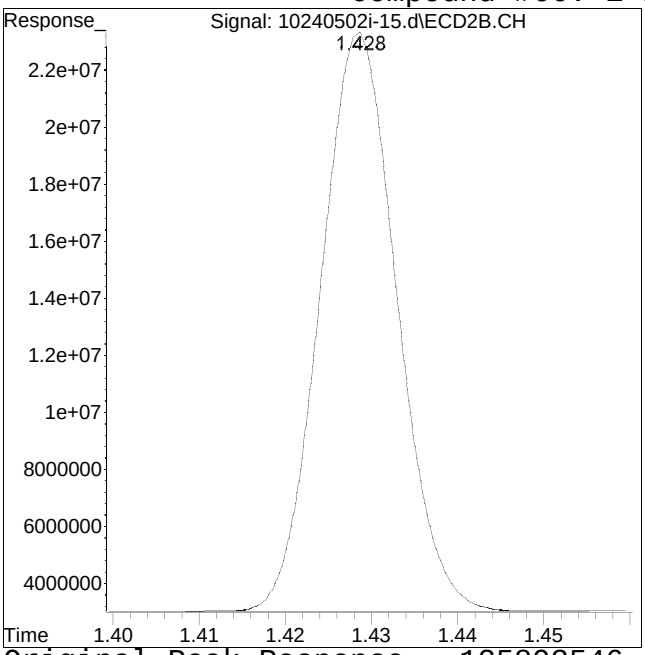


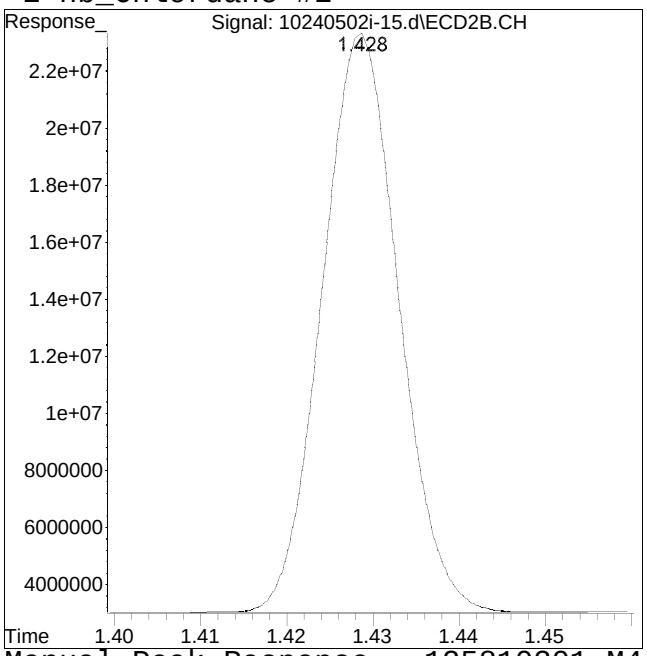
Original Peak Response = 358383647 Manual Peak Response = 357369648 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-15.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:20 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/7/2024 5:57 pm

Compound #66: 1-br-2-nb_Chlordane #2



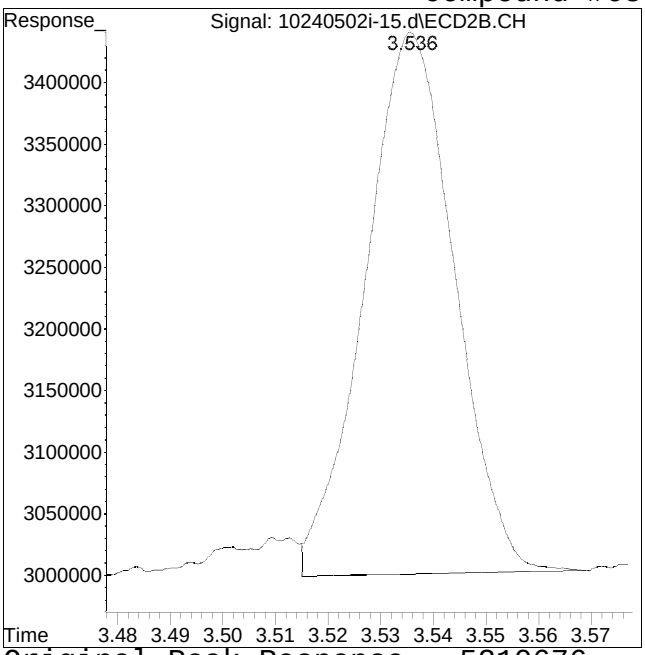


Original Peak Response = 125893546 Manual Peak Response = 125810201 M4
M4 = Poor automated baseline construction.

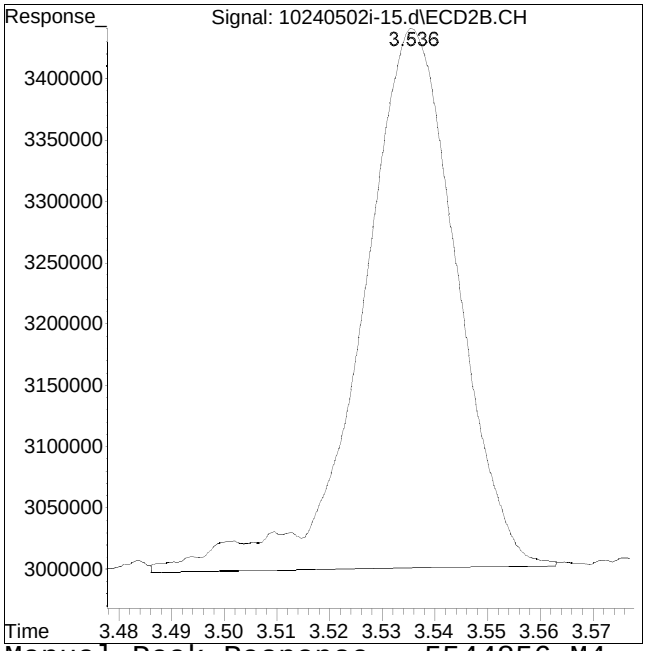
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-15.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:20 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/7/2024 5:57 pm

Compound #68: chlordane-3 #2



Original Peak Response = 5210676



Manual Peak Response = 5544856 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:31 pm
Operator : PEST10:jag
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:56:22 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:56:09 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.318	1.429	364.5E6	132.9E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:31 pm
Operator : PEST10:jag
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:56:22 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:56:09 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	57132274	18660656	110.459	113.898
30) l1	chlordane-3	2.526	3.536	111.4E6	24293128	107.827	127.791M4
31) l1	chlordane-4	2.883	4.233	72780381	70399905	121.457	105.185
32) l1	chlordane-5	3.439	4.399	229.0E6	56797658	101.770	108.248
Sum	chlordane-1			470.3E6	170.2E6	NoCal	NoCal D
Average	chlordane-1					110.378	113.780
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

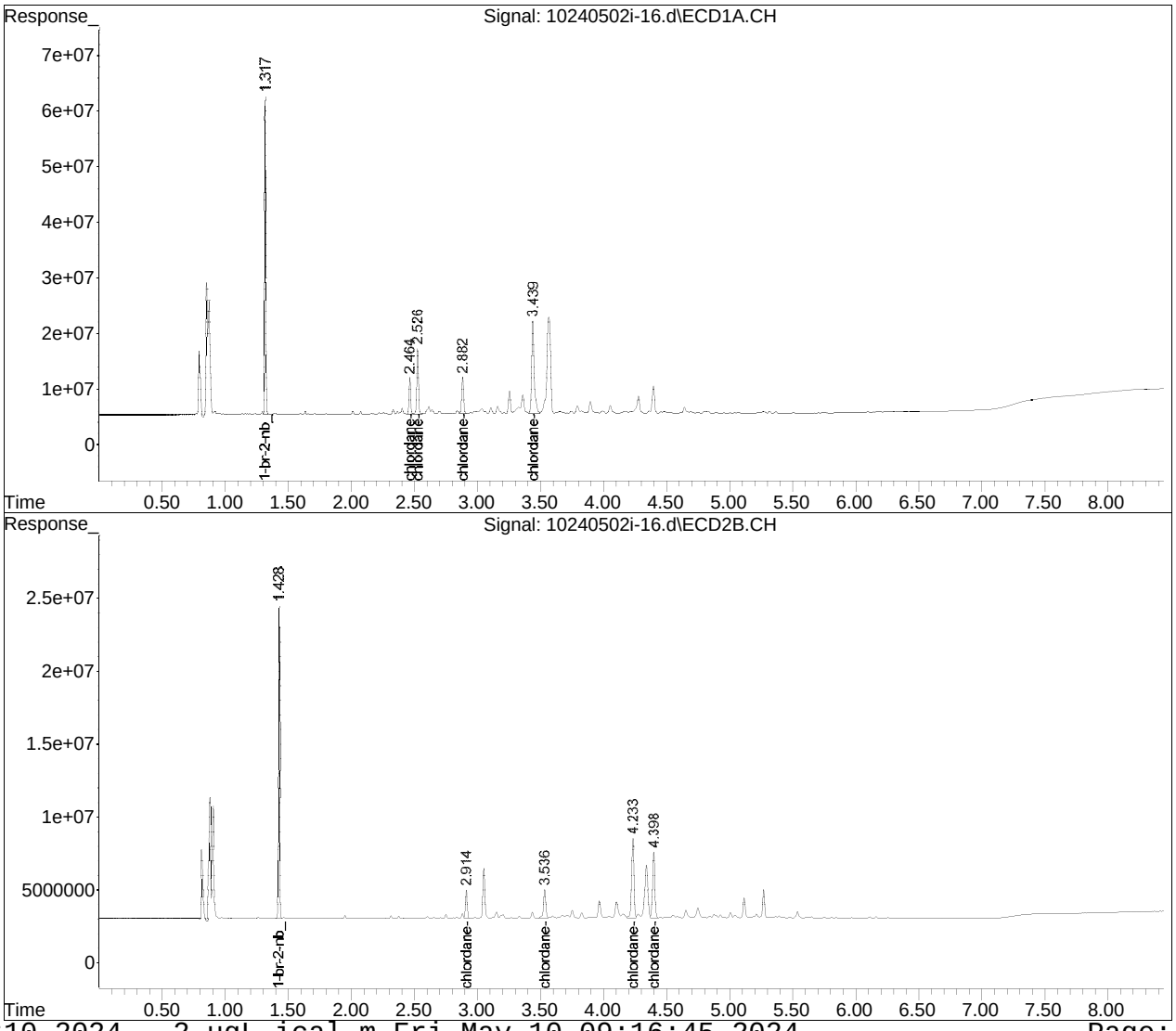
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:31 pm
Operator : PEST10:jag
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:56:22 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:56:09 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

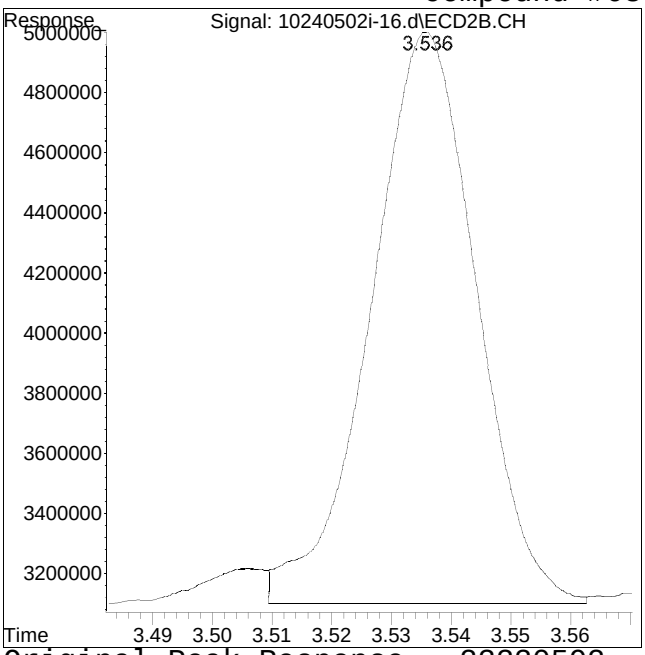
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

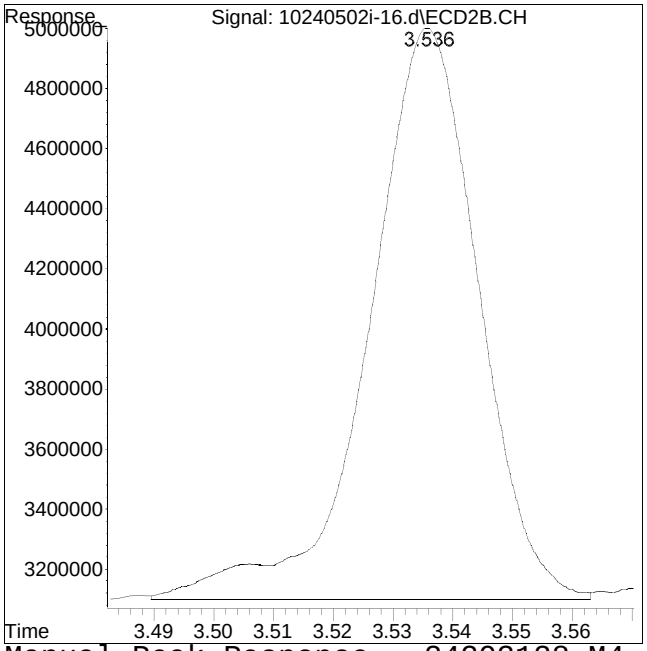


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-16.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:31 pm Instrument : Pest 10
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 5/7/2024 5:56 pm

Compound #68: chlordane-3 #2





Original Peak Response = 23330592 Manual Peak Response = 24293128 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:42 pm
Operator : PEST10:jag
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:55:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:55:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.318	1.428	372.1E6	137.0E6	25.000	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:42 pm
Operator : PEST10:jag
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:55:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:55:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.914	273.9E6	90403123	525.252	548.056
30) l1	chlordane-3	2.527	3.536	548.3E6	112.0E6	526.719	599.942
31) l1	chlordane-4	2.883	4.232	334.8E6	371.7E6	565.083	552.909
32) l1	chlordane-5	3.440	4.398	1172.7E6	294.1E6	514.020	560.012
Sum	chlordane-1			2329.8E6	868.2E6	NoCal	NoCal D
Average	chlordane-1					532.768	565.230
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

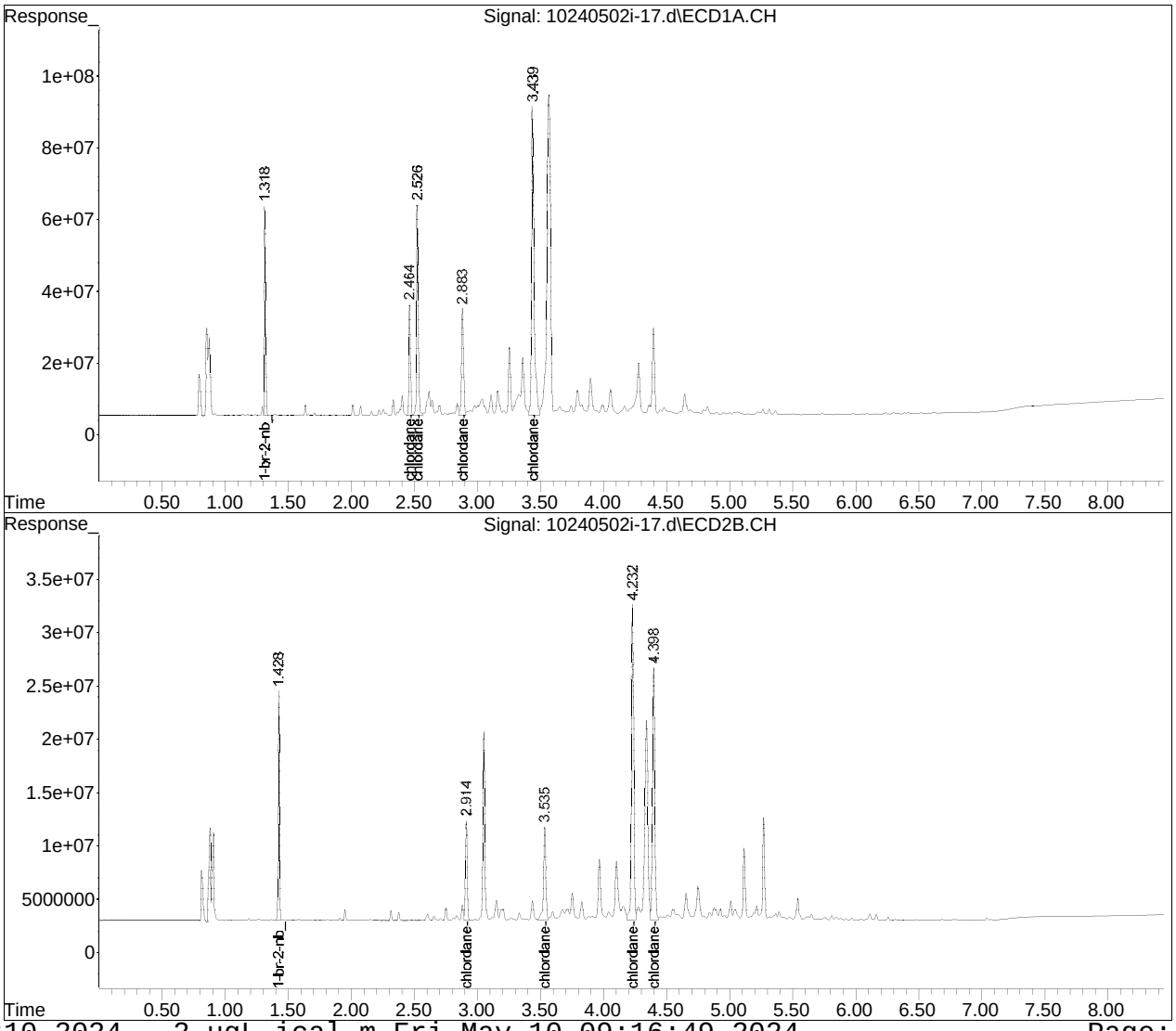
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:42 pm
Operator : PEST10:jag
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:55:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:55:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

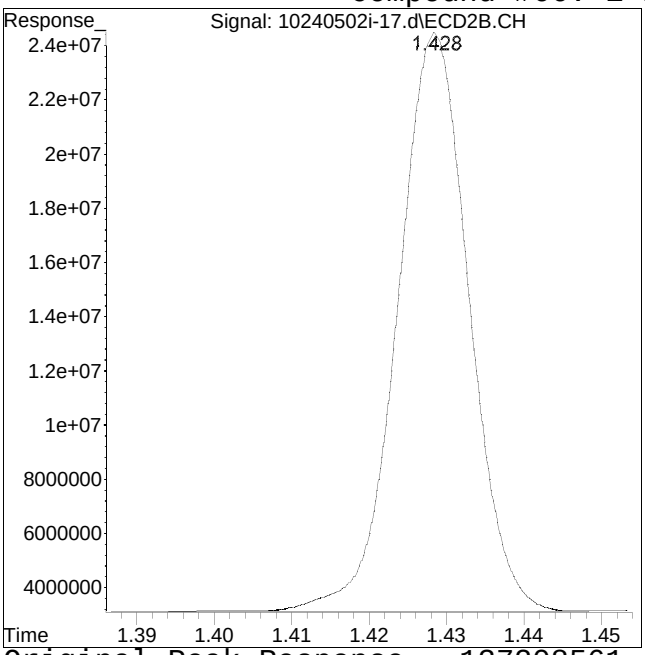
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

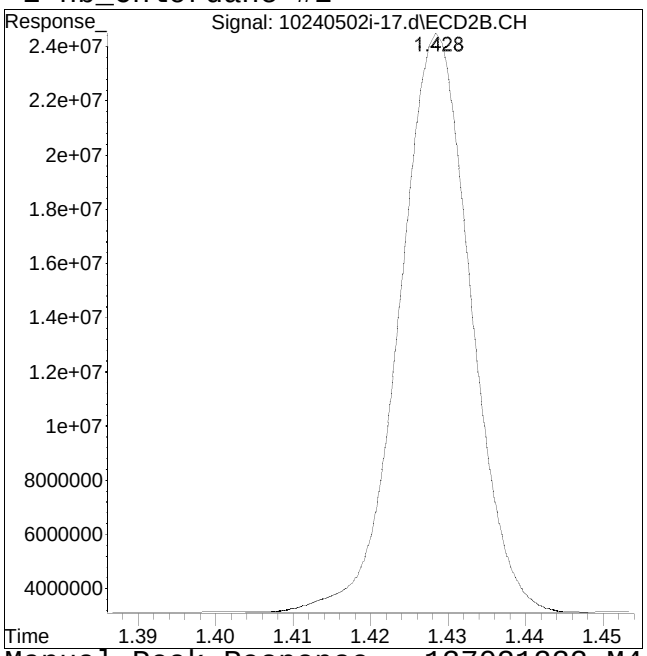


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-17.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:42 pm Instrument : Pest 10
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 5/7/2024 5:55 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 137208561 Manual Peak Response = 137021232 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:53 pm
Operator : PEST10:jag
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:49:49 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:43:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.318	1.429	377.1E6	144.7E6	25.000M4	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:53 pm
Operator : PEST10:jag
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:49:49 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:43:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	552.5E6	192.1E6	NoCal	NoCal
30) l1	chlordane-3	2.527	3.535	1116.4E6	223.2E6	NoCal	NoCal M3
31) l1	chlordane-4	2.883	4.233	657.9E6	778.8E6	NoCal	NoCal
32) l1	chlordane-5	3.439	4.399	2418.1E6	609.6E6	NoCal	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

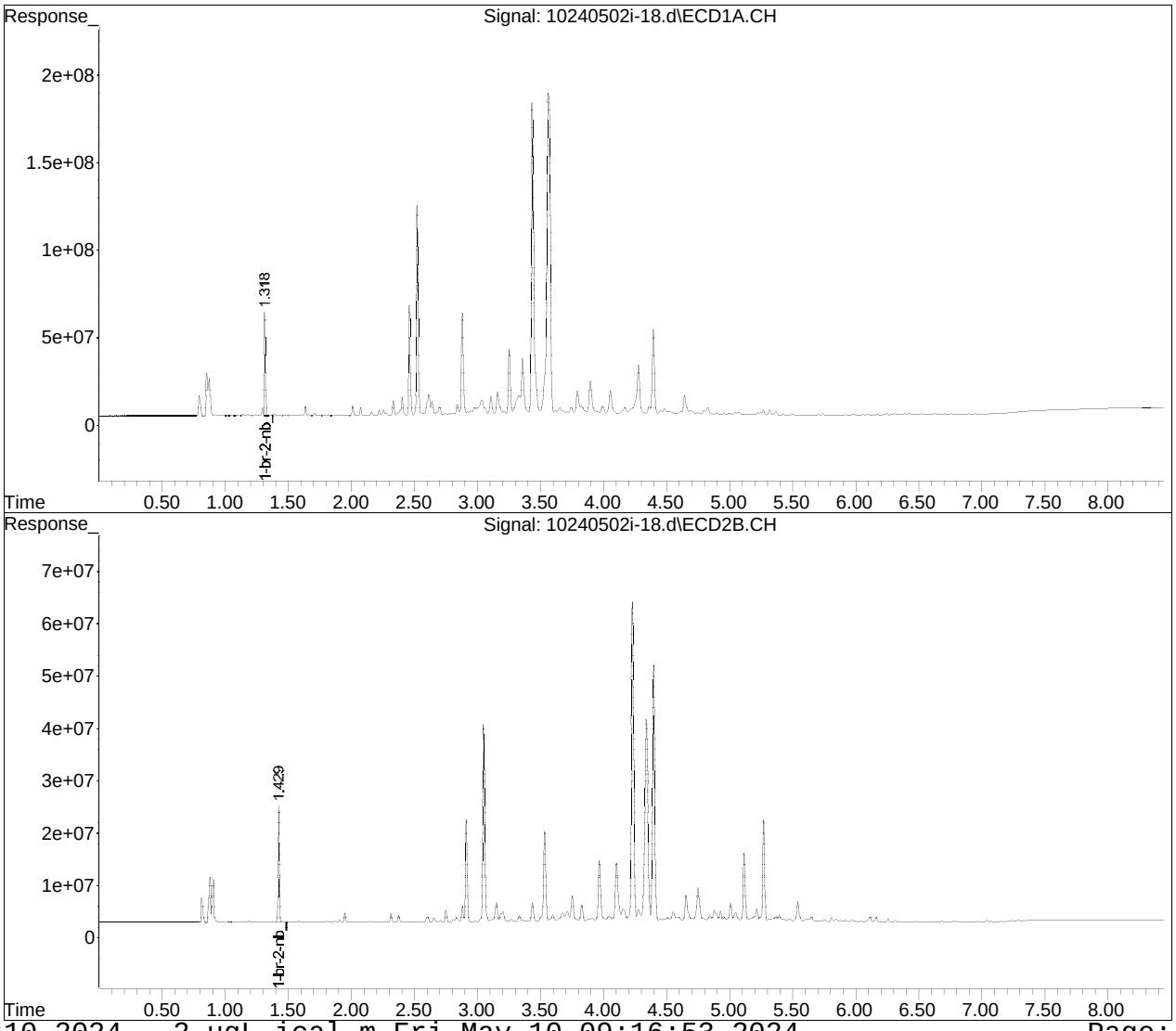
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:53 pm
Operator : PEST10:jag
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:49:49 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:43:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

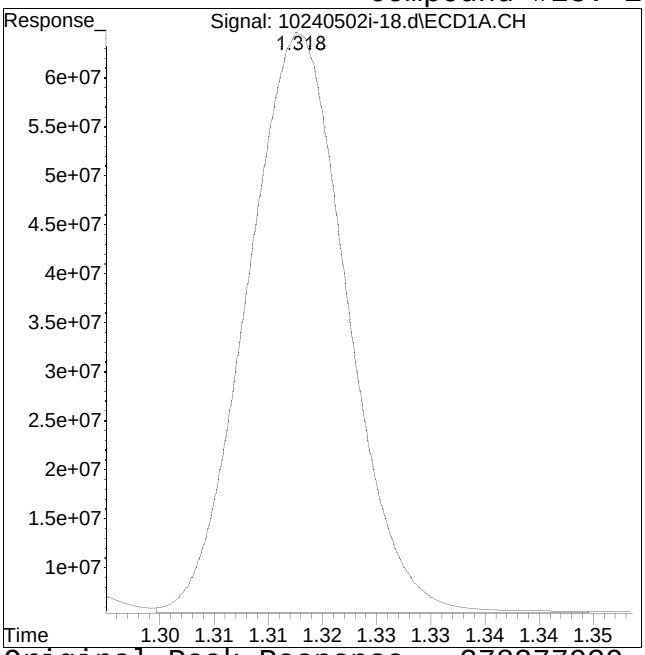
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



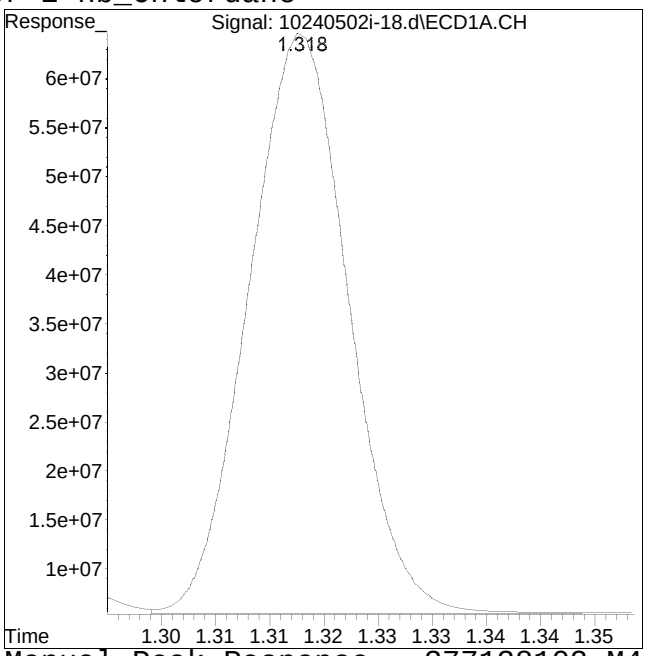
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-18.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:53 pm Instrument : Pest 10
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/7/2024 5:49 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 378377939



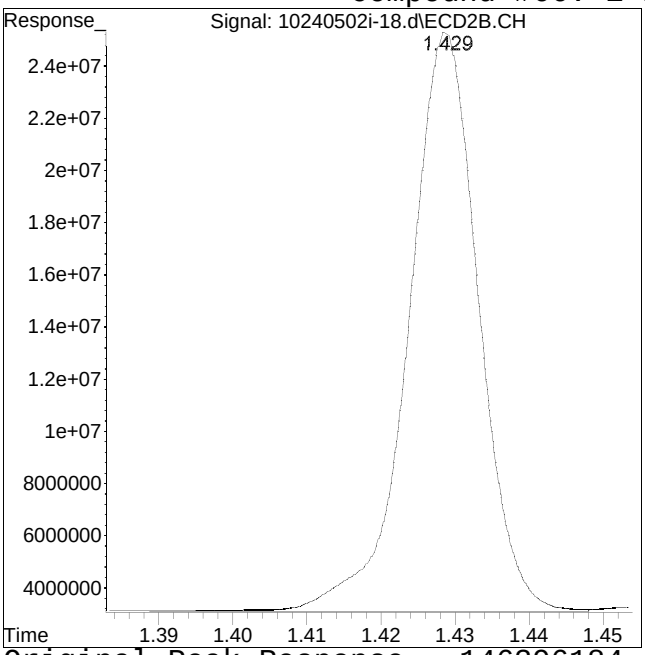
Manual Peak Response = 377138102 M4

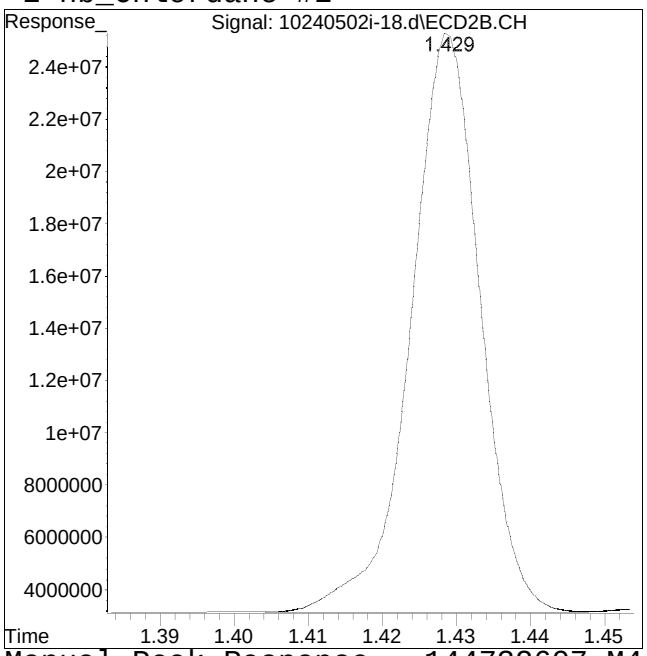
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-18.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:53 pm Instrument : Pest 10
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/7/2024 5:49 pm

Compound #66: 1-br-2-nb_Chlordane #2



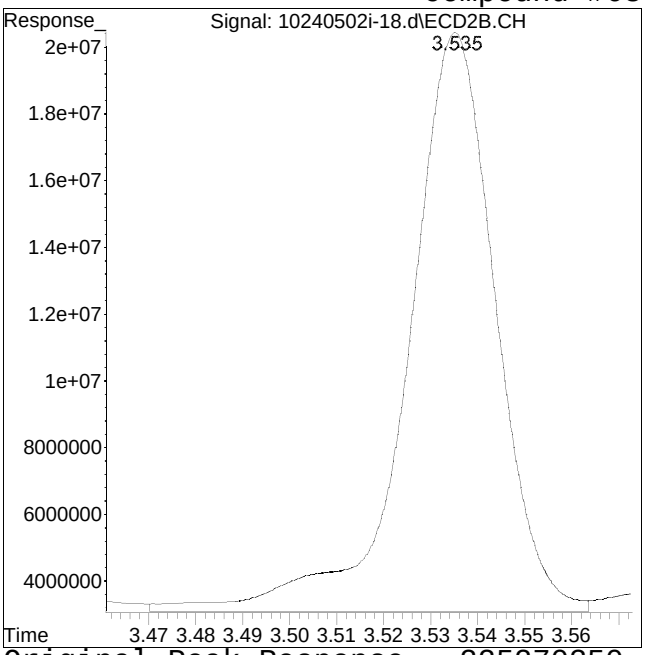


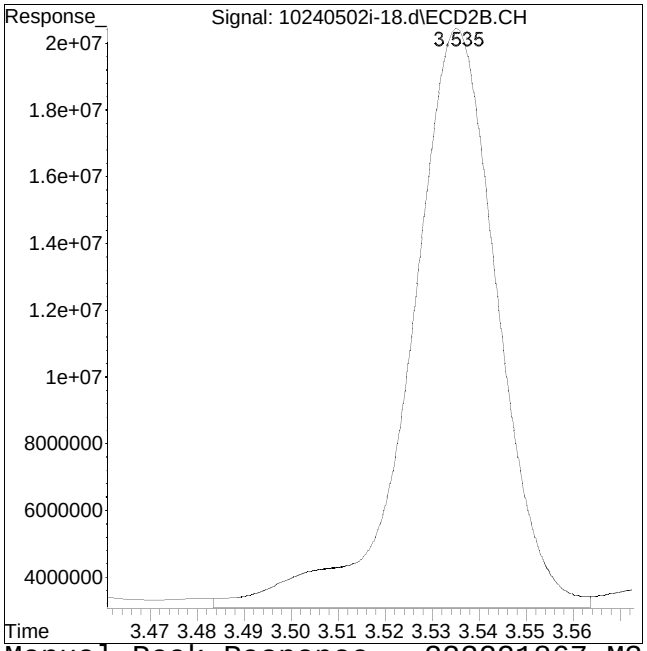
Original Peak Response = 146396184 Manual Peak Response = 144732607 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-18.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:53 pm Instrument : Pest 10
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/7/2024 5:49 pm

Compound #68: chlordane-3 #2





Original Peak Response = 225270350 Manual Peak Response = 223221867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:04 pm
Operator : PEST10:jag
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:51:40 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:51:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.317	1.428	383.4E6	148.0E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:04 pm
Operator : PEST10:jag
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:51:40 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:51:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	1081.2E6	370.5E6	1924.941	1885.865
30) l1	chlordane-3	2.527	3.536	2181.4E6	422.1E6	1922.046	1849.424
31) l1	chlordane-4	2.883	4.233	1183.1E6	1526.8E6	1768.932	1917.240
32) l1	chlordane-5	3.439	4.399	4756.3E6	1193.7E6	1934.796	1915.278
Sum	chlordane-1			9202.0E6	3513.1E6	NoCal	NoCal D
Average	chlordane-1					1887.679	1891.952
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

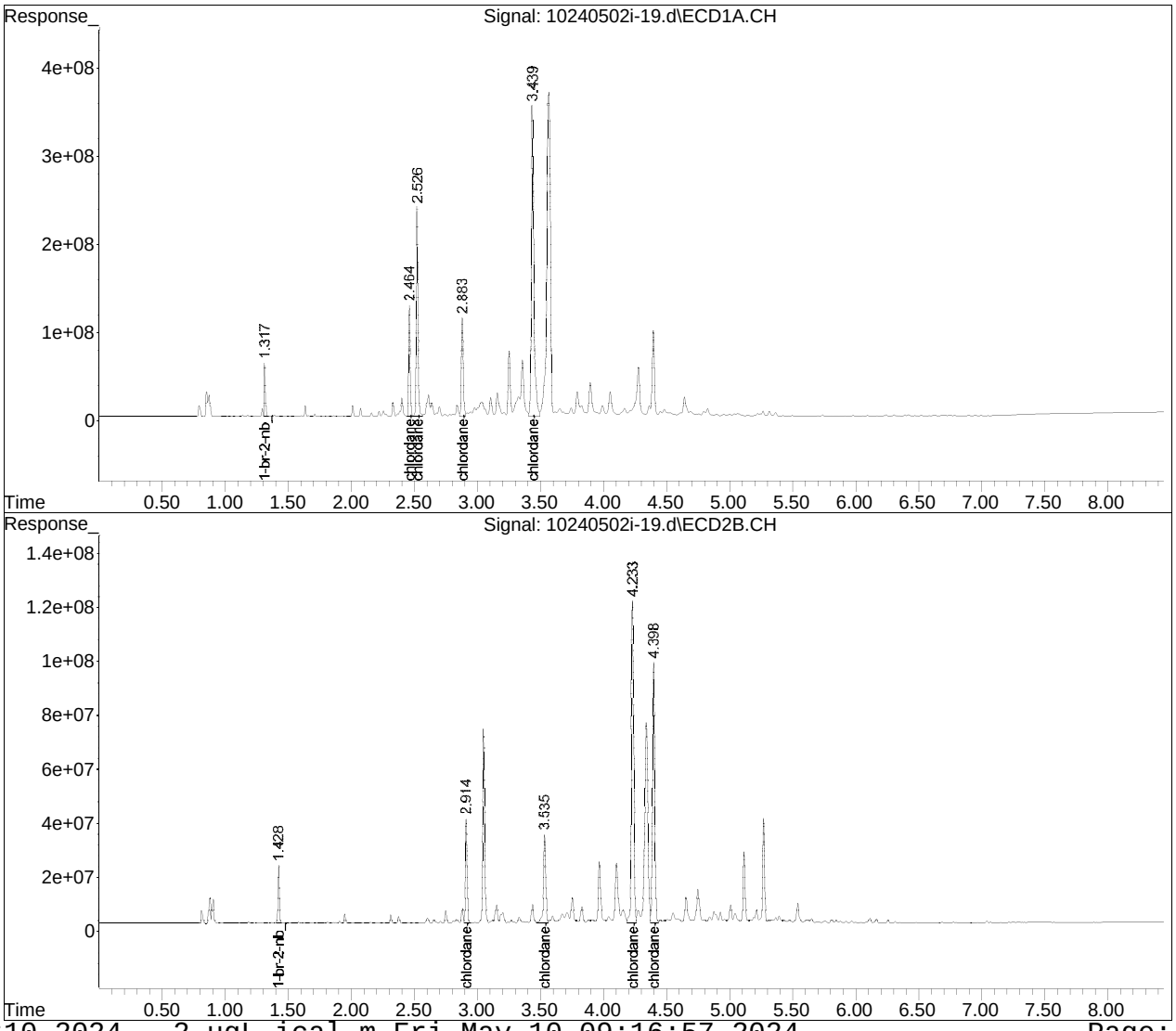
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:04 pm
Operator : PEST10:jag
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:51:40 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:51:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

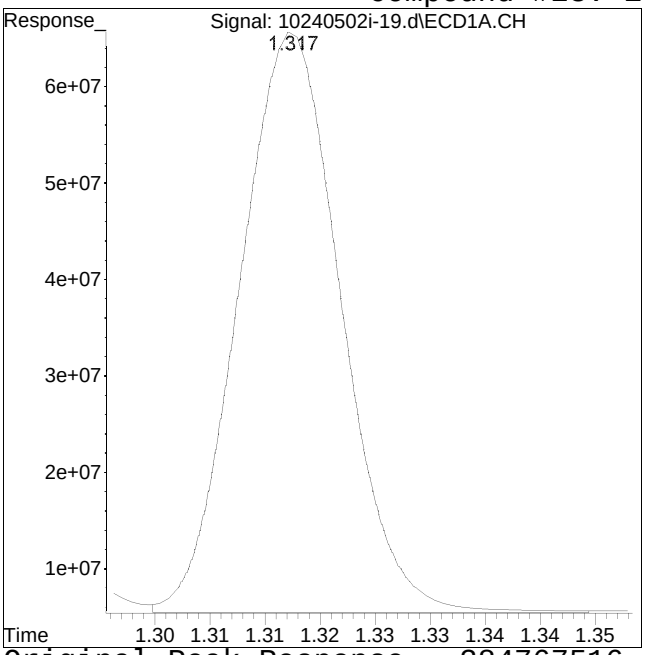
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



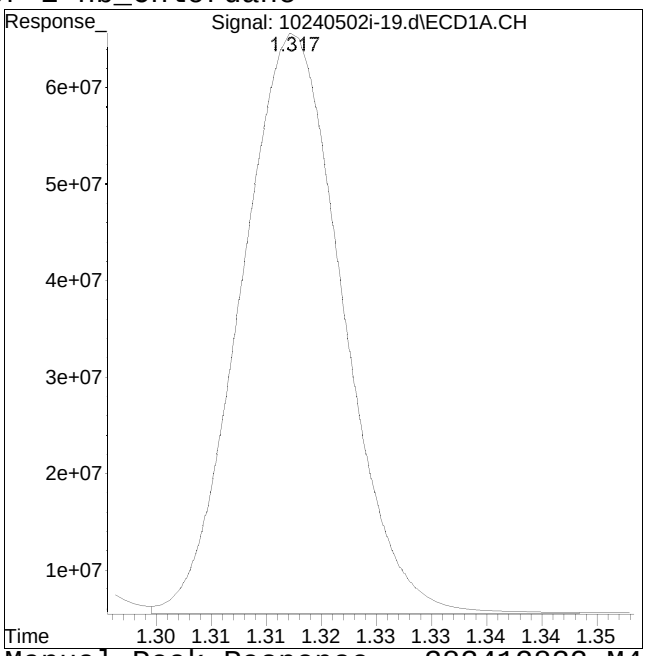
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-19.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:04 pm Instrument : Pest 10
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 5/7/2024 5:51 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 384767516



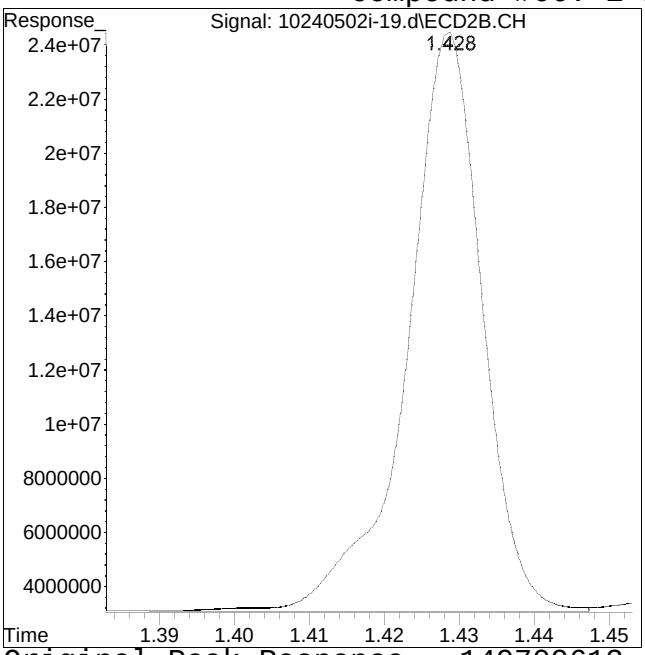
Manual Peak Response = 383412832 M4

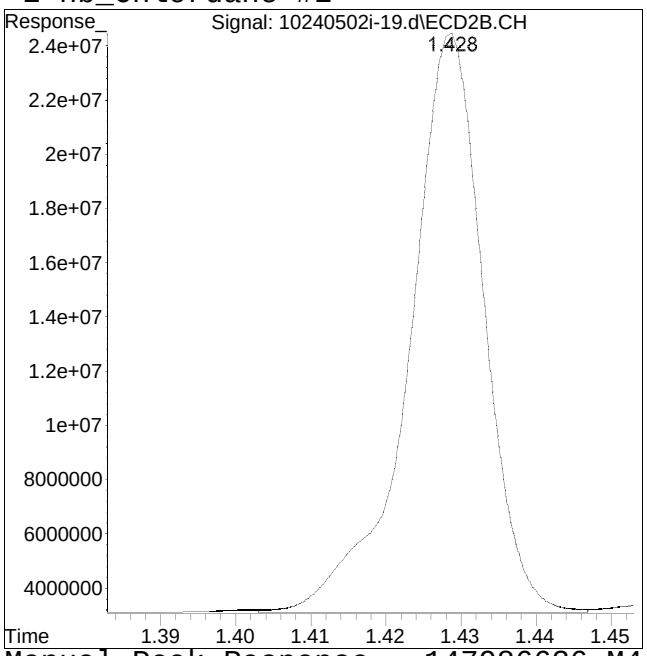
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-19.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:04 pm Instrument : Pest 10
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 5/7/2024 5:51 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 149709612 Manual Peak Response = 147986636 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:15 pm
Operator : PEST10:jag
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:54:18 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:54:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.318	1.429	414.4E6	183.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:15 pm
Operator : PEST10:jag
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:54:18 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:54:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.465	2.916	2754.7E6	945.2E6	4623.853	4002.745
30) l1	chlordane-3	2.528	3.537	5361.4E6	1024.0E6	4457.140	3767.688
31) l1	chlordane-4	2.884	4.235	3087.1E6	3826.1E6	4532.064	3964.710
32) l1	chlordane-5	3.441	4.400	11973.5E6	2979.6E6	4580.586	3947.097
Sum	chlordane-1			23176.7E6	8775.1E6	NoCal	NoCal D
Average	chlordane-1					4548.411	3920.560
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

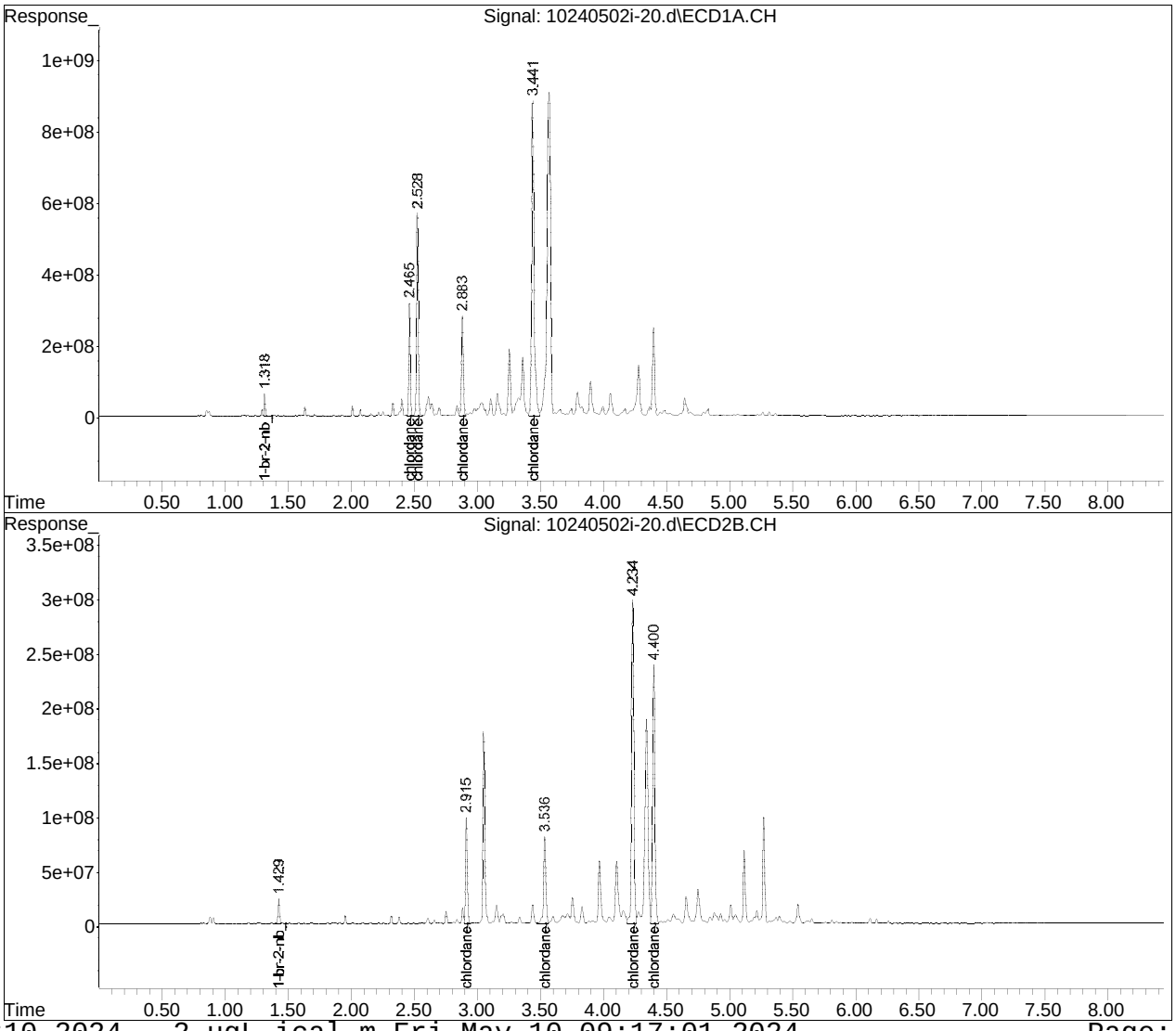
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:15 pm
Operator : PEST10:jag
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:54:18 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:54:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

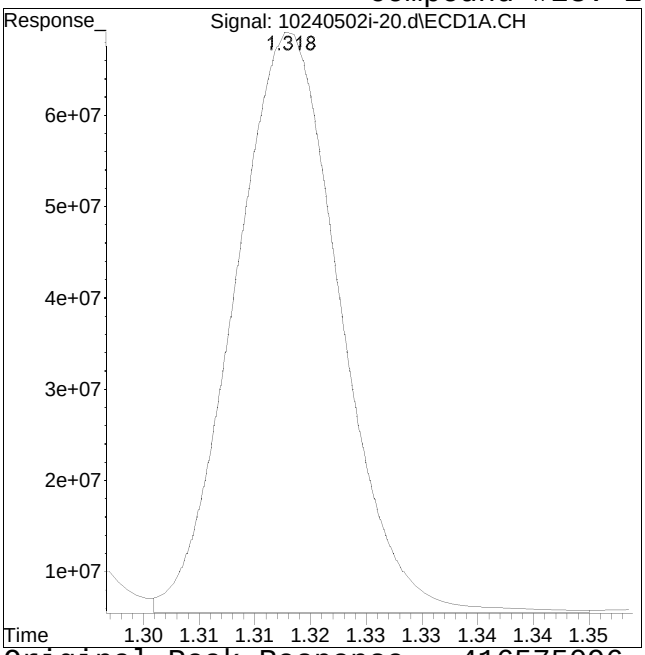
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

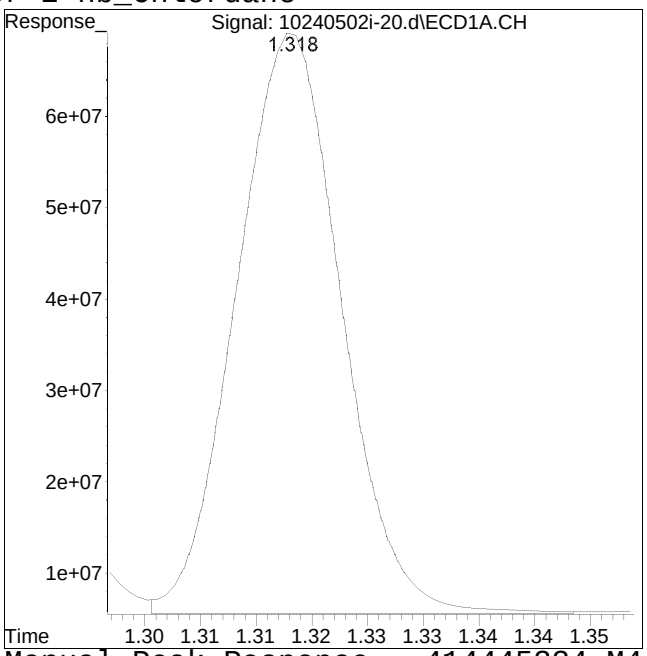


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-20.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:15 pm Instrument : Pest 10
Sample : il10chlor,42e,,pp 11549 L5Quant Date : 5/7/2024 5:54 pm

Compound #28: 1-br-2-nb_Chlordane



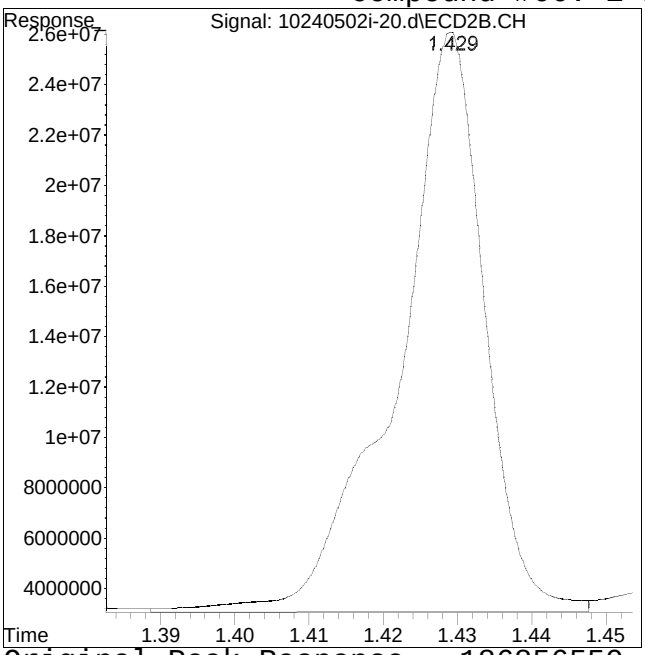


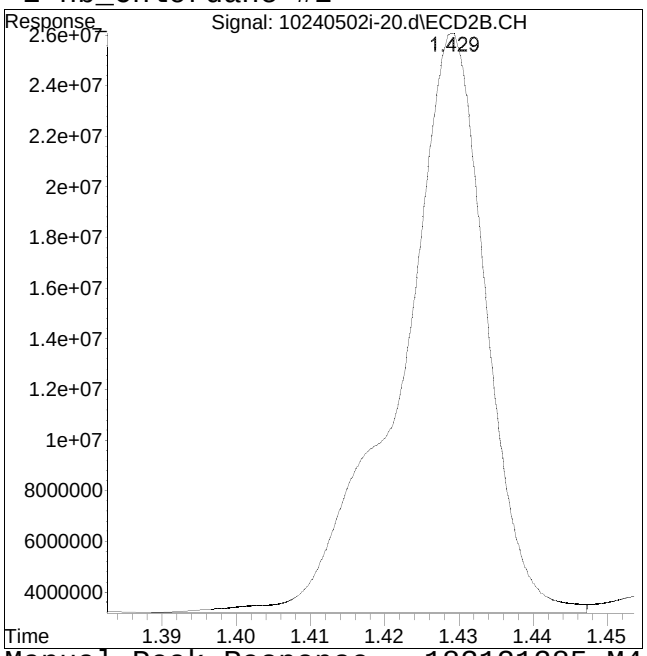
Original Peak Response = 416575096 Manual Peak Response = 414445334 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-20.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:15 pm Instrument : Pest 10
Sample : il10chlor,42e,,pp 11549 L5Quant Date : 5/7/2024 5:54 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 186856550 Manual Peak Response = 183121285 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   7:26 pm
Operator : PEST10:jag
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	105	0.00
29	l1	chlordane-1		*1000.000	918.124	8.2	94	0.00
30	l1	chlordane-3		*1000.000	697.488	30.3#	71	0.00
31	l1	chlordane-4		*1000.000	945.251	5.5	93	0.00
32	l1	chlordane-5		*1000.000	892.521	10.7	91	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	98	0.00
29	l1	chlordane-1		*1000.000	972.342	2.8	91	0.00
30	l1	chlordane-3		*1000.000	975.775	2.4	92	0.00
31	l1	chlordane-4		*1000.000	926.696	7.3	88	0.00
32	l1	chlordane-5		*1000.000	924.346	7.6	88	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.32#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.88#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.98#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.18#
6	t	beta-BHC	*	0.635	0.000	100.0#	0#	-2.23#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.53#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.77#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.89#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-2.98#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.32#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   7:26 pm
Operator : PEST10:jag
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.71#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.97#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.34#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde	*	0.852	0.000	100.0#	0#	-4.89#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.12#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.17#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.50#
27	s	Decachlorobiphenyl	*	0.926	0.000	100.0#	0#	-6.31#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.32#
34	l2	toxaphene-1	*	0.048	0.000	100.0#	0#	-4.46#
35	l2	toxaphene-2	*	0.038	0.000	100.0#	0#	-4.58#
36	l2	toxaphene-4	*	0.038	0.000	100.0#	0#	-5.00#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.18#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.92#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.25#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.35#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.64#
6	t	beta-BHC	*	0.595	0.000	100.0#	0#	-2.71#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.98#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   7:26 pm
Operator : PEST10:jag
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-3.05#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.38#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.26#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.62#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-4.01#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.23#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.40#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.59#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.46#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.74#
18	t	Endrin		1.086	0.000	100.0#	0#	-5.04#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.15#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.23#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.43#
22	t	Endrin Aldehyde	*	0.746	0.000	100.0#	0#	-5.52#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.98#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.13#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.75#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.16#
27	s	Decachlorobiphenyl	*	0.827	0.000	100.0#	0#	-7.01#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-1	*	0.022	0.000	100.0#	0#	-5.19#
35	l2	toxaphene-2	*	0.033	0.000	100.0#	0#	-5.22#
36	l2	toxaphene-4	*	0.038	0.000	100.0#	0#	-5.53#
37	l2	toxaphene-5	*	0.036	0.000	100.0#	0#	-5.94#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:26 pm
Operator : PEST10:jag
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.317	1.428	392.9E6	140.4E6	25.000M4	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:26 pm
Operator : PEST10:jag
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	518.7E6	175.6E6	918.124	972.342
30) l1	chlordane-3	2.527	3.536	794.8E6	205.1E6	697.488	975.775
31) l1	chlordane-4	2.883	4.233	611.1E6	684.6E6	945.251M4	926.696
32) l1	chlordane-5	3.440	4.399	2201.6E6	535.4E6	892.521	924.346
Sum	chlordane-1			4126.2E6	1600.7E6	NoCal	NoCal D
Average	chlordane-1					863.346	949.790
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

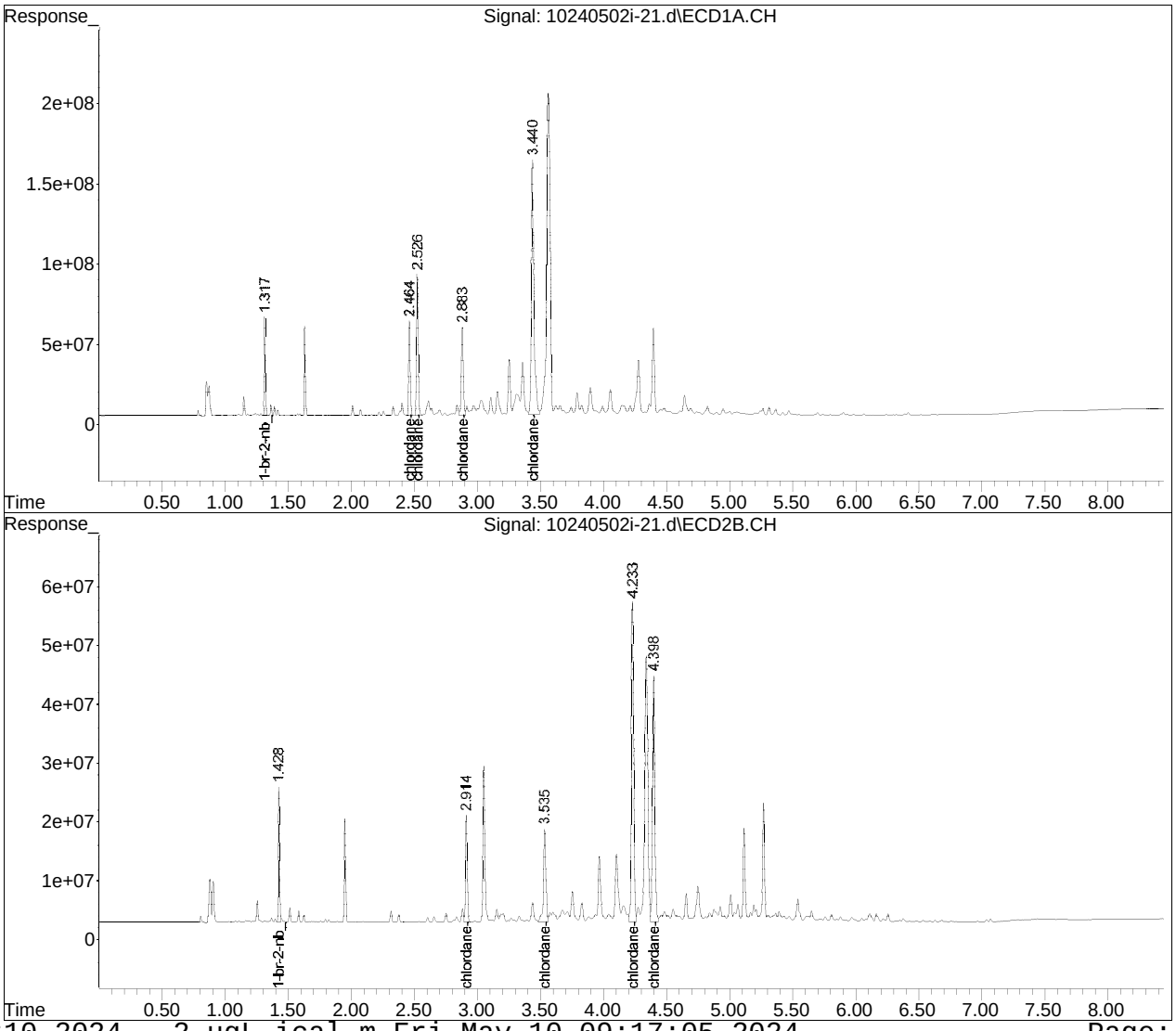
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:26 pm
Operator : PEST10:jag
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

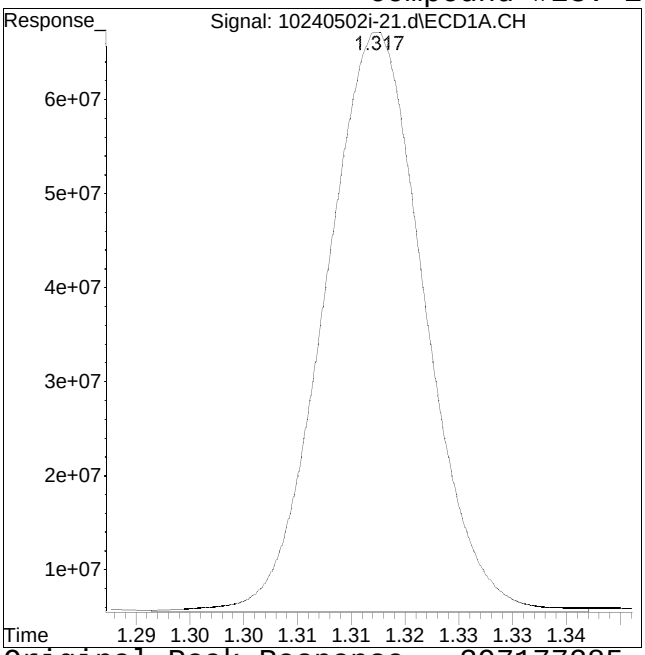
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

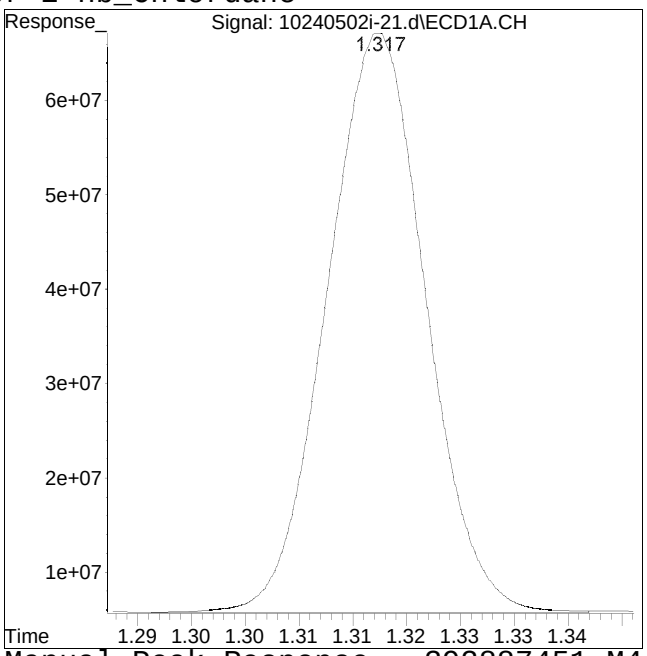


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-21.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:26 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/7/2024 6:08 pm

Compound #28: 1-br-2-nb_Chlordane



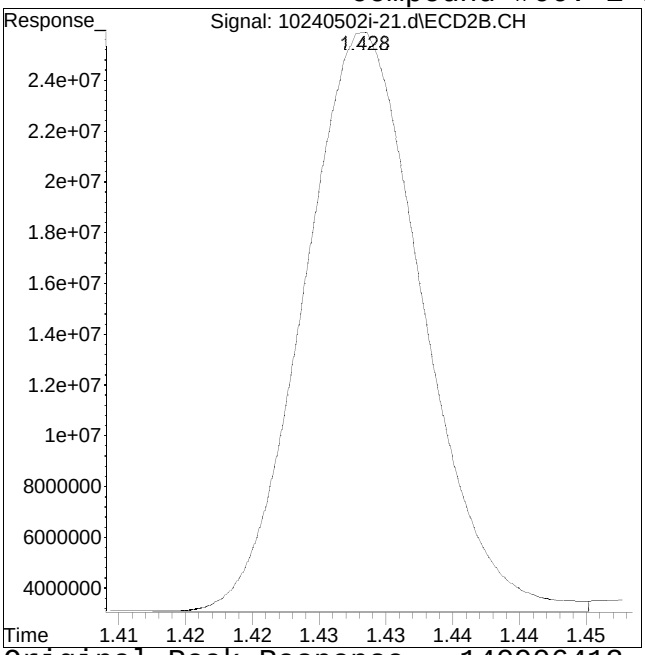


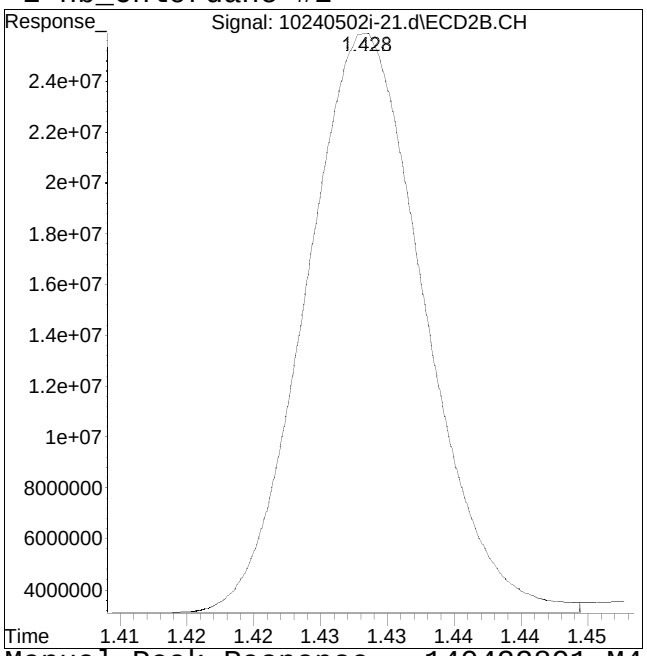
Original Peak Response = 397177285 Manual Peak Response = 392887451 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-21.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:26 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/7/2024 6:08 pm

Compound #66: 1-br-2-nb_Chlordane #2



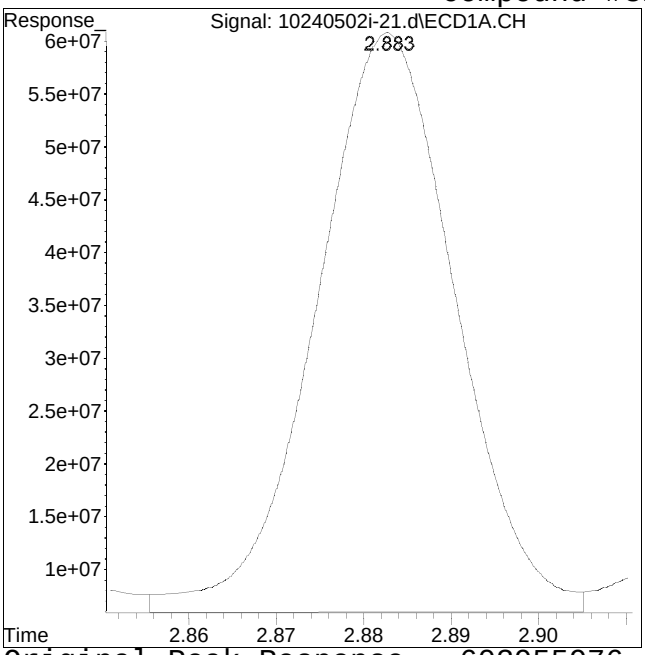


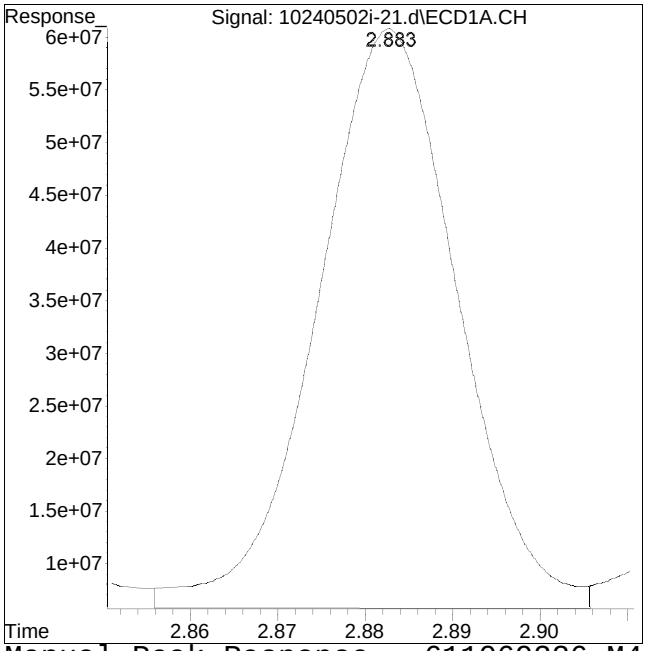
Original Peak Response = 140906412 Manual Peak Response = 140422891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-21.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:26 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/7/2024 6:08 pm

Compound #31: chlordane-4





Original Peak Response = 603955976 Manual Peak Response = 611069226 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:37 pm
Operator : PEST10:jag
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:17:08 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:16:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.318	1.428	360.5E6	128.5E6	25.000	25.000M3
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:37 pm
Operator : PEST10:jag
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:17:08 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:16:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.459	5.191	22031557	2809067	36.543M3	25.863M3
35) l2	toxaphene-2	4.583	5.218	12202607	4372138	21.821M3	27.502M3
36) l2	toxaphene-4	5.001	5.531	16904756	4720911	34.292M4	24.947M3
37) l2	toxaphene-5	5.185	5.937	18852382	4684651	33.158M4	26.800M3
Sum	toxaphene-1			69991301	16586767	125.814	105.112
Average	toxaphene-1					31.454	26.278

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			69991301	16586767	125.814	105.112
Average	toxaphene-1					31.454	26.278

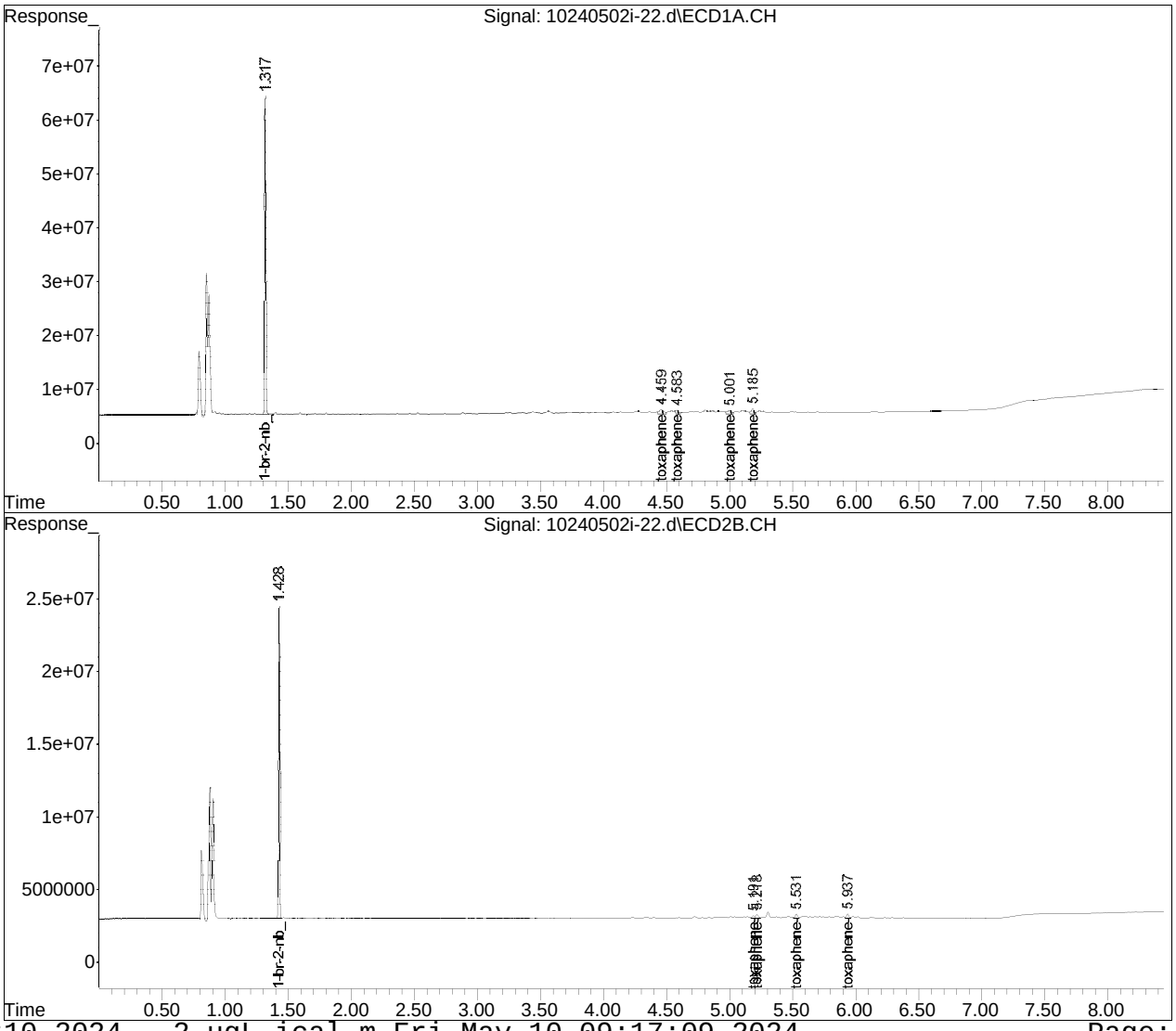
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:37 pm
Operator : PEST10:jag
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:17:08 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:16:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

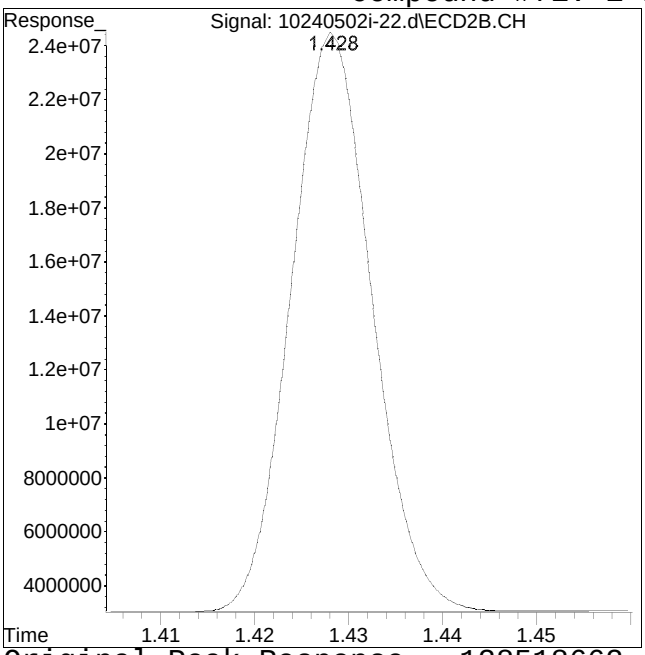
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

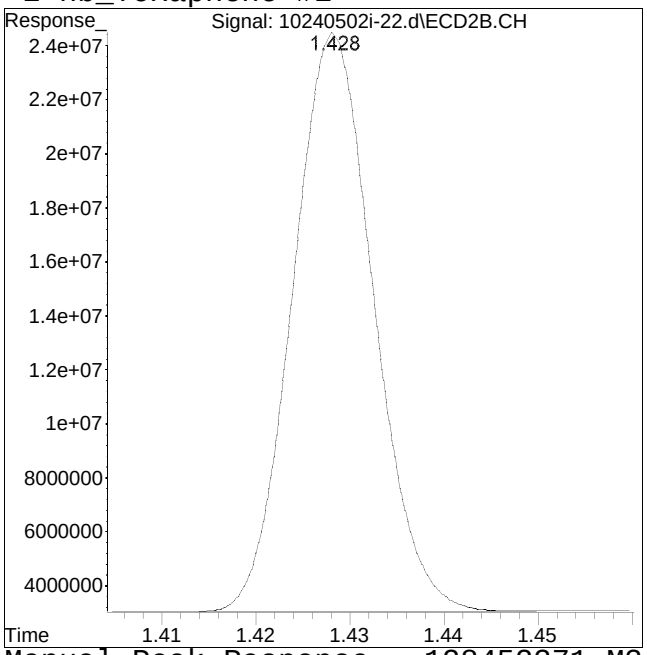


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #71: 1-br-2-nb_Toxaphene #2



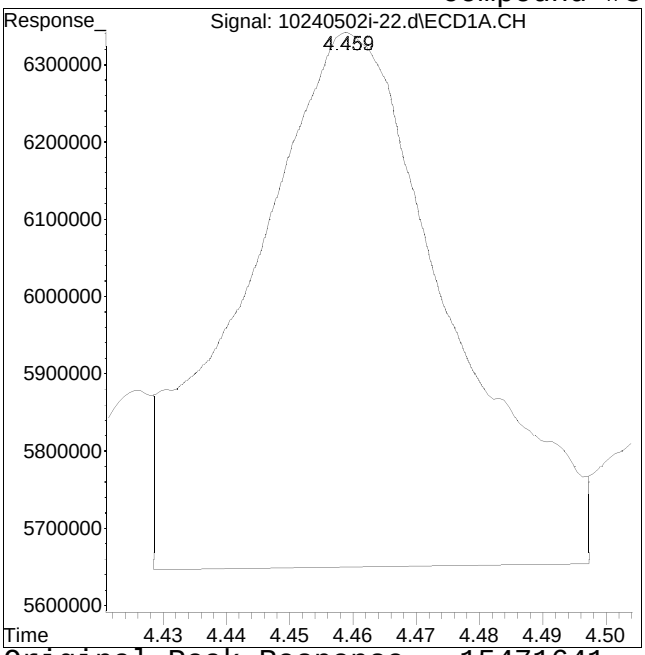


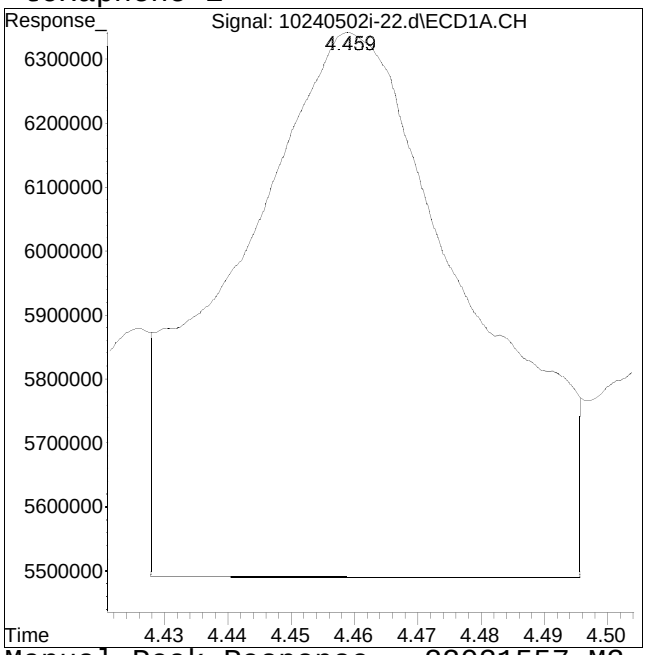
Original Peak Response = 128518662 Manual Peak Response = 128452371 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #34: toxaphene-1



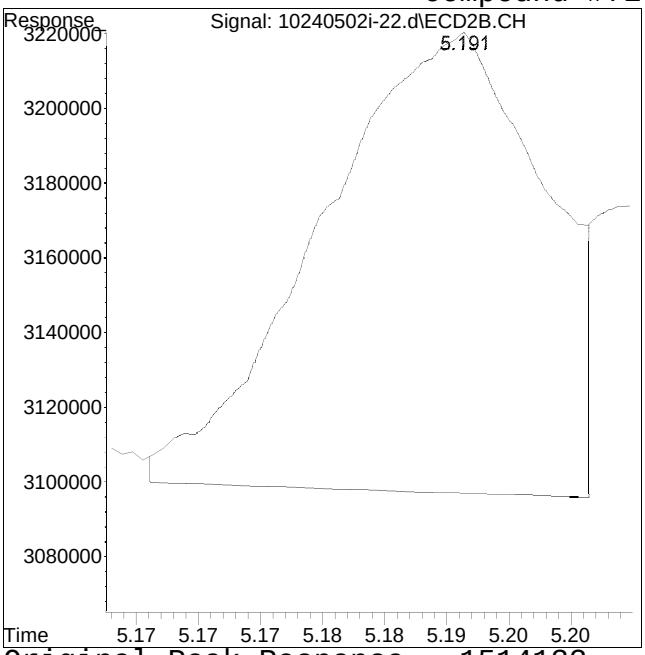


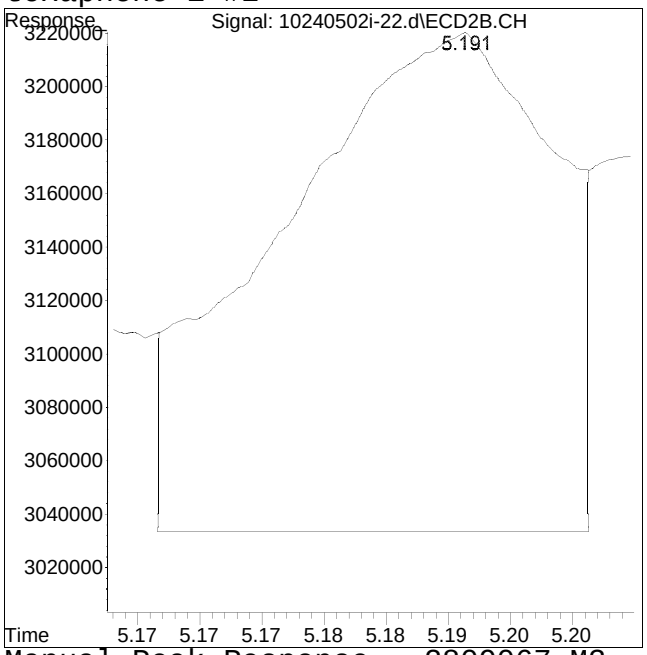
Original Peak Response = 15471641 Manual Peak Response = 22031557 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #72: toxaphene-1 #2





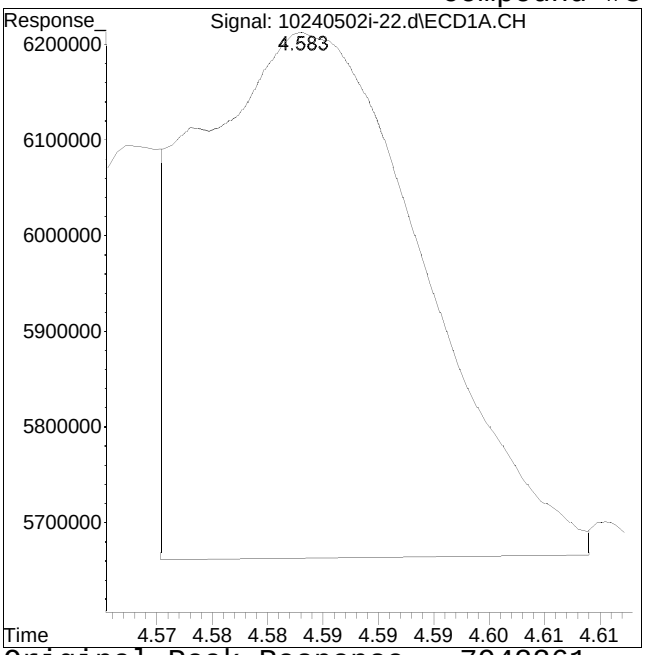
Original Peak Response = 1514133 Manual Peak Response = 2809067 M3

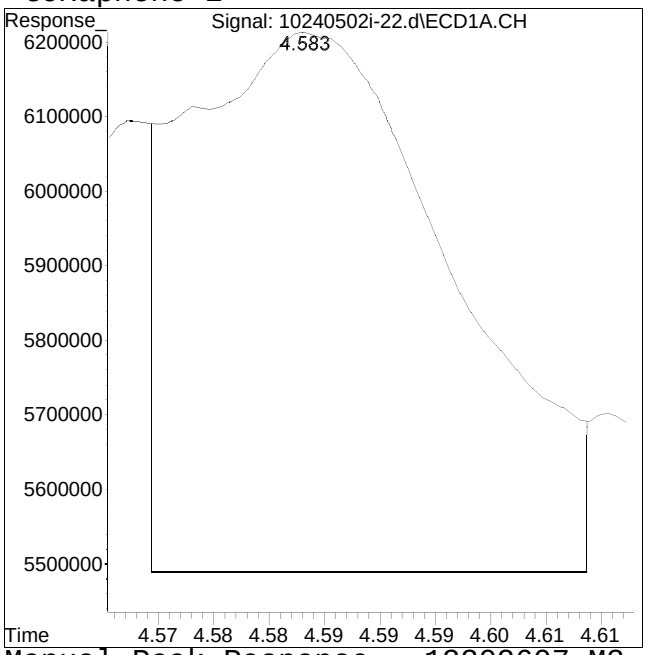
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #35: toxaphene-2



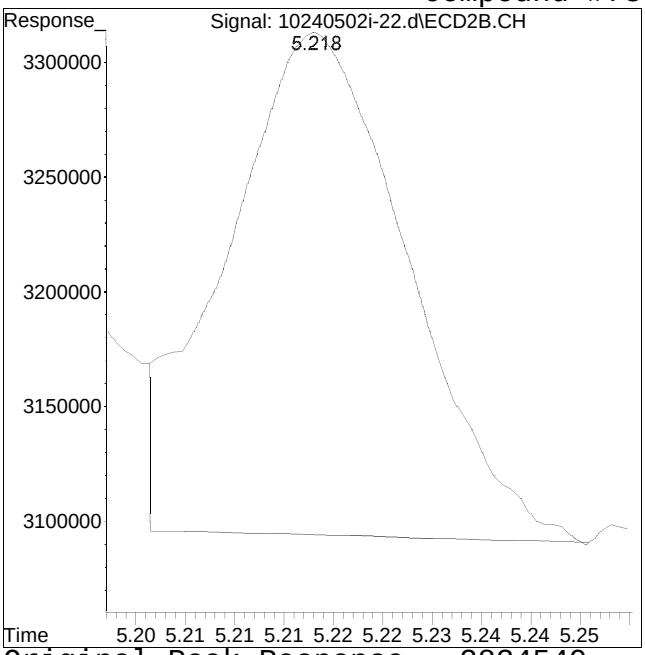


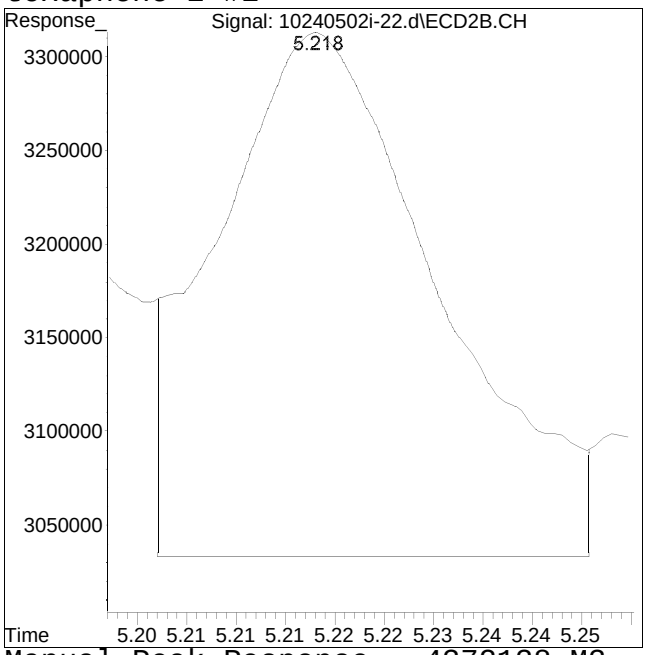
Original Peak Response = 7942261 Manual Peak Response = 12202607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #73: toxaphene-2 #2



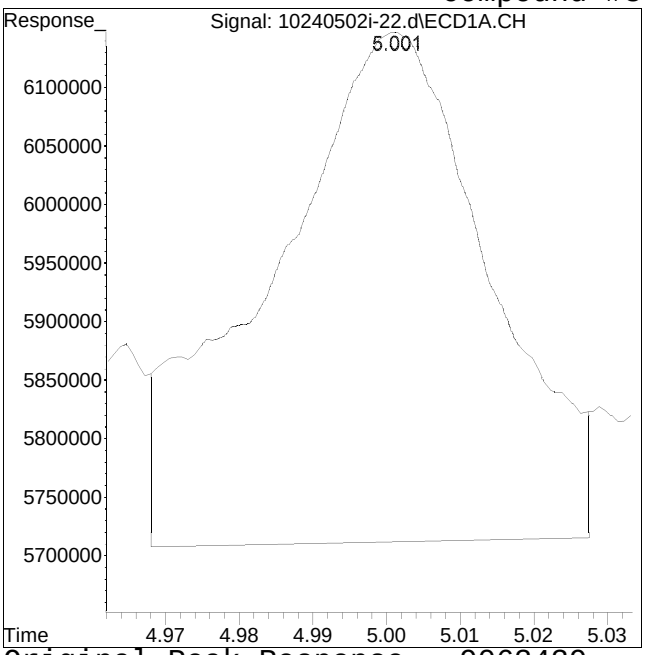


Original Peak Response = 2834549 Manual Peak Response = 4372138 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

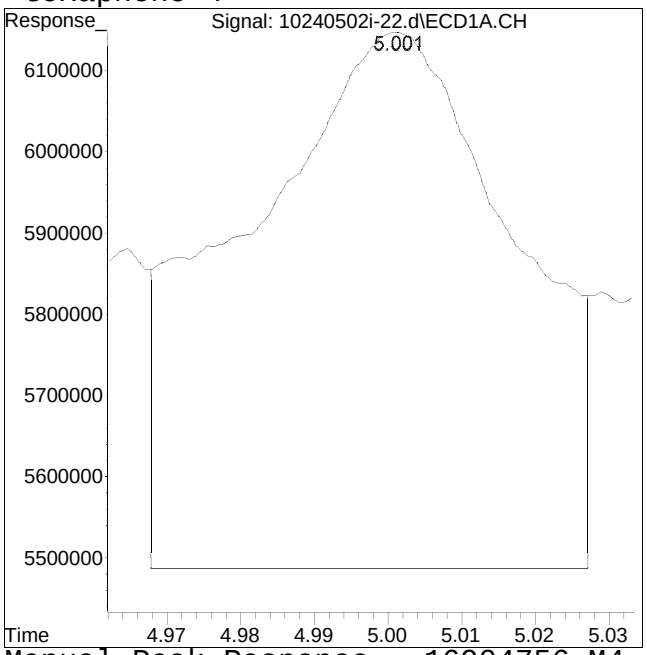
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #36: toxaphene-4



Original Peak Response = 9063439



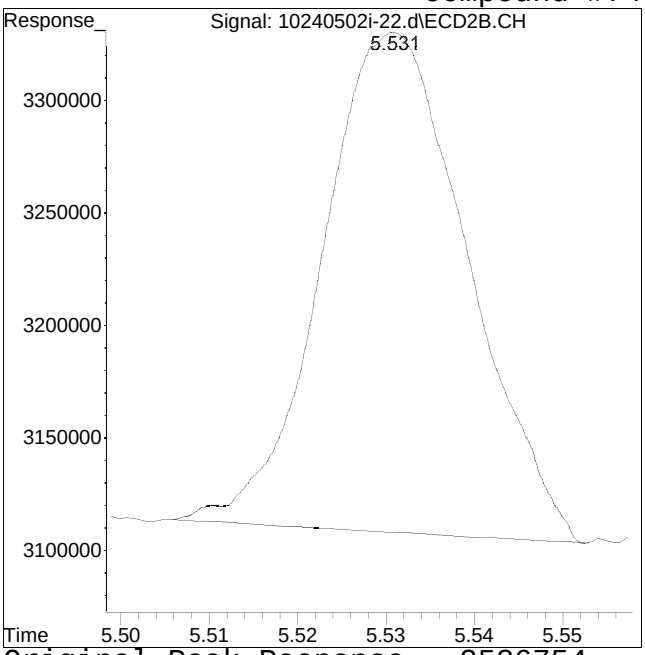
Manual Peak Response = 16904756 M4

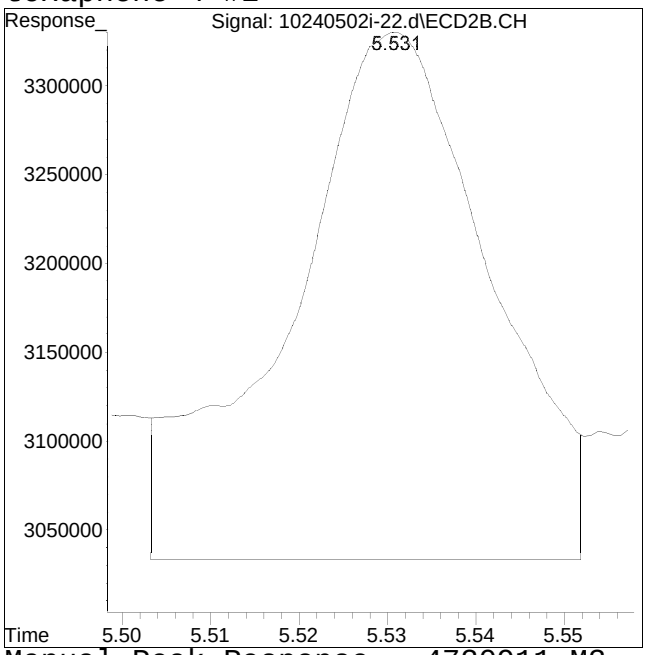
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #74: toxaphene-4 #2



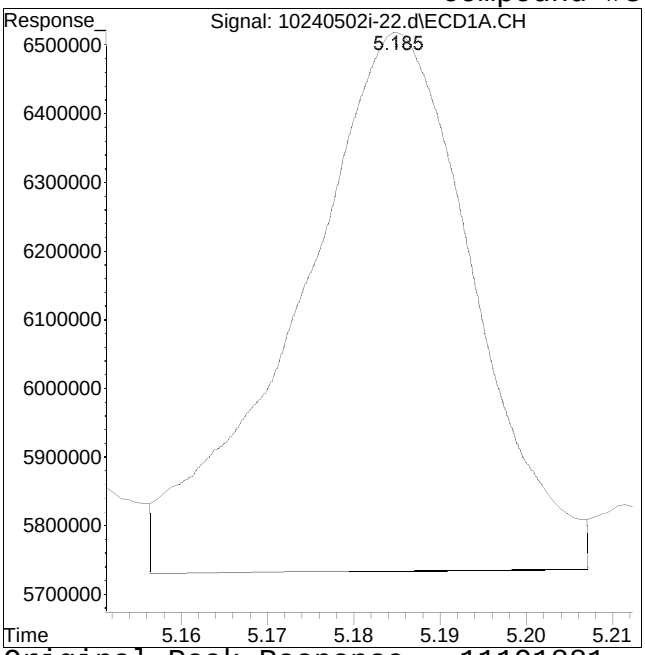


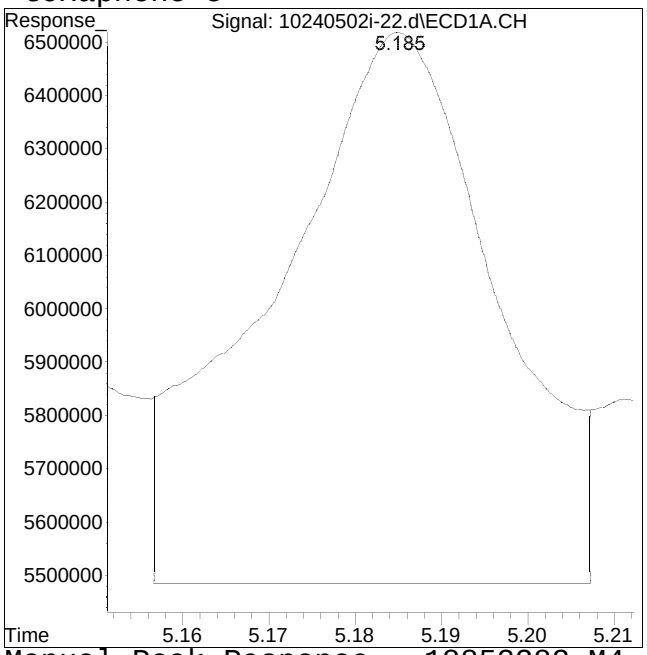
Original Peak Response = 2536754 Manual Peak Response = 4720911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #37: toxaphene-5



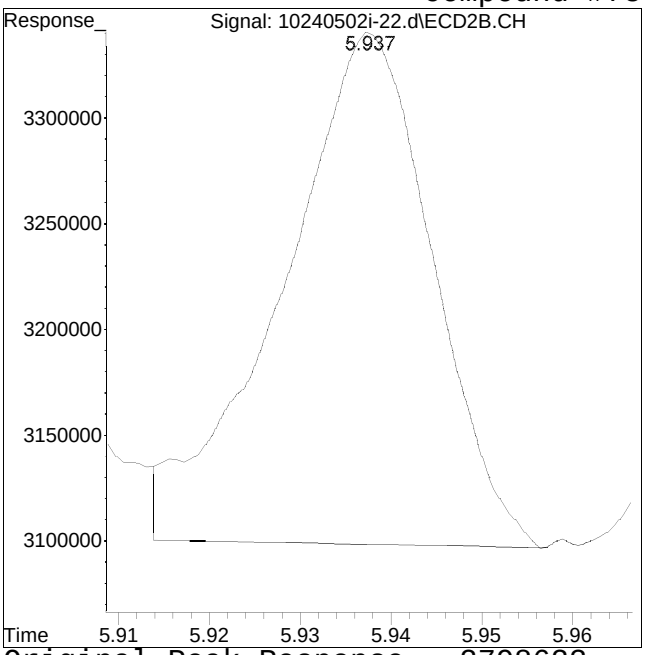


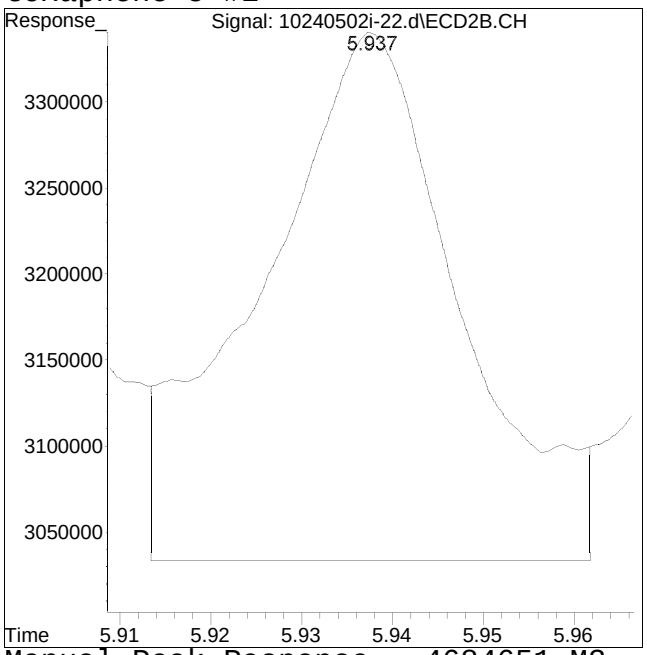
Original Peak Response = 11191881 Manual Peak Response = 18852382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #75: toxaphene-5 #2





Original Peak Response = 2798623 Manual Peak Response = 4684651 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:48 pm
Operator : PEST10:jag
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:37:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.318	1.429	378.8E6	133.0E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:48 pm
Operator : PEST10:jag
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:37:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.189	65859633	12311955	91.266	105.923M4
35) l2	toxaphene-2	4.584	5.219	58014480	17029091	98.058	97.830M4
36) l2	toxaphene-4	5.001	5.531	50443334	20484244	86.146	100.919M4
37) l2	toxaphene-5	5.185	5.937	59464470	18458698	89.306	96.935M4
Sum	toxaphene-1			233.8E6	68283988	364.776	401.608
Average	toxaphene-1					91.194	100.402

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			233.8E6	68283988	364.776	401.608
Average	toxaphene-1					91.194	100.402

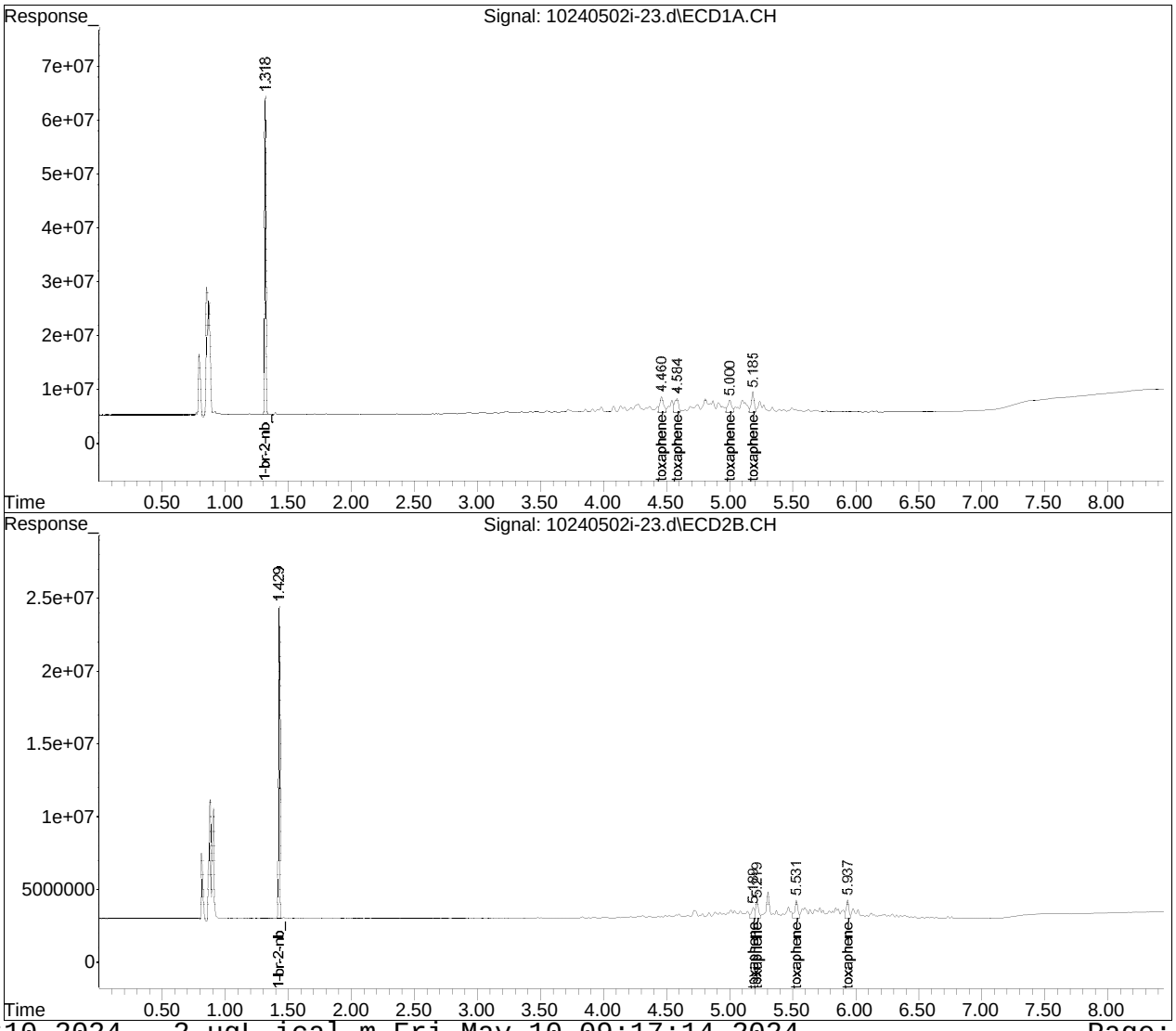
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:48 pm
Operator : PEST10:jag
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:37:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

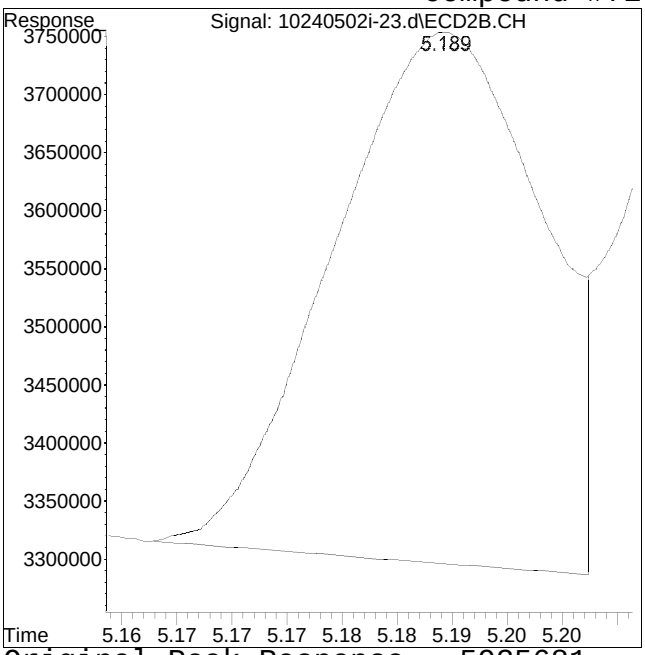
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

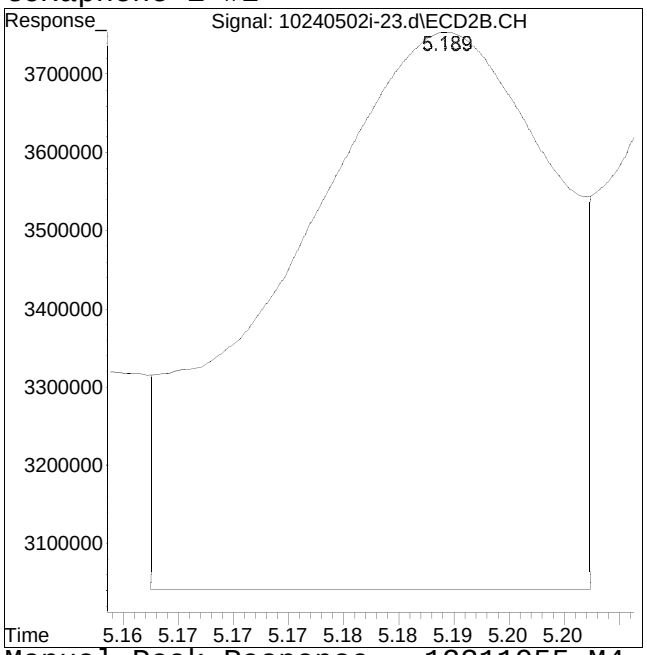


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #72: toxaphene-1 #2



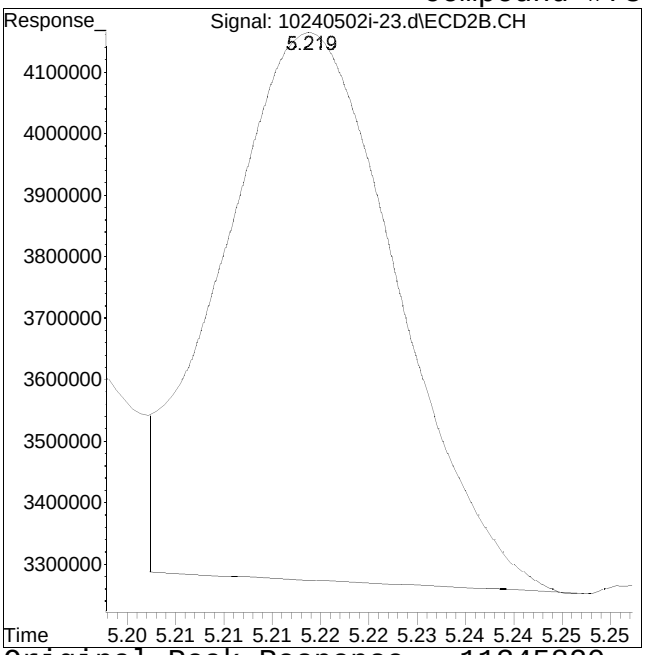


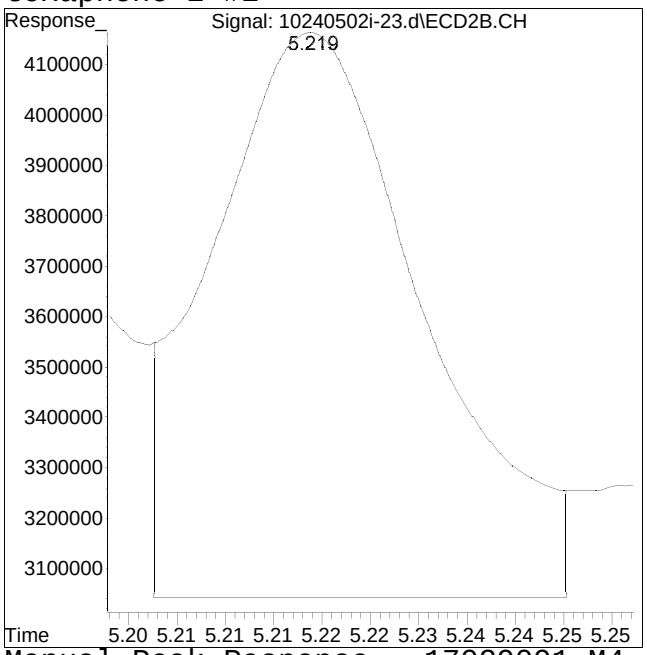
Original Peak Response = 5935681 Manual Peak Response = 12311955 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #73: toxaphene-2 #2



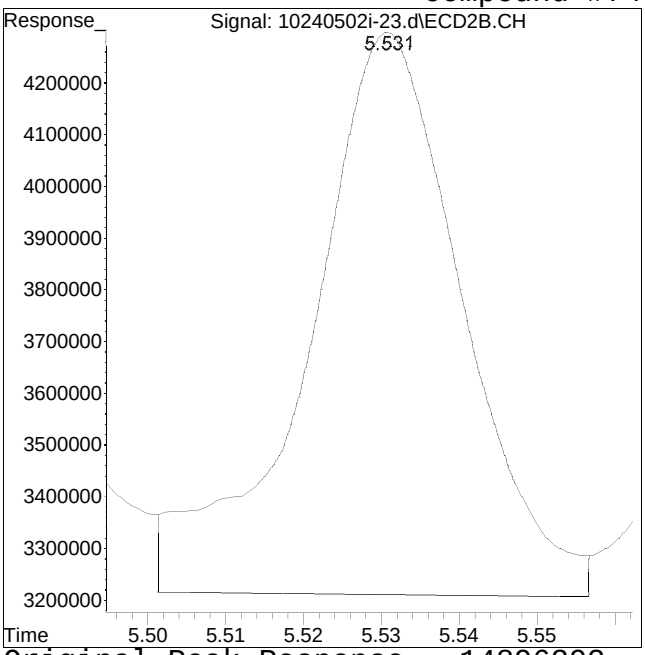


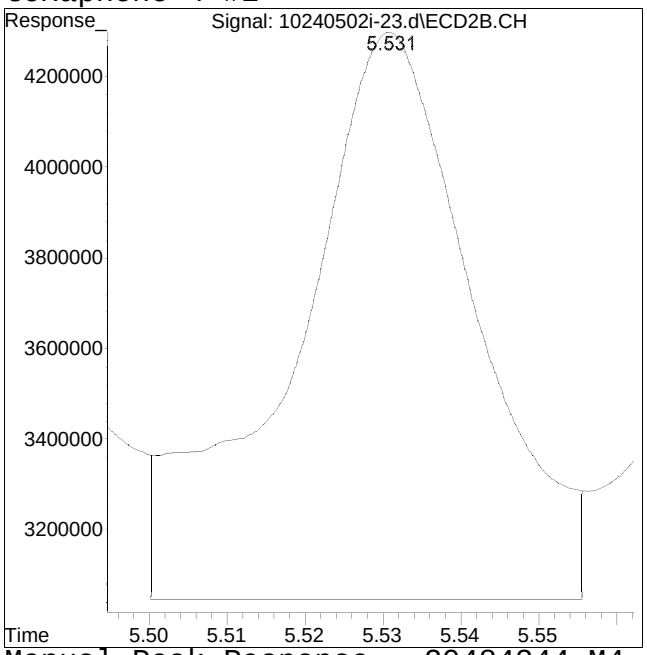
Original Peak Response = 11345820 Manual Peak Response = 17029091 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #74: toxaphene-4 #2



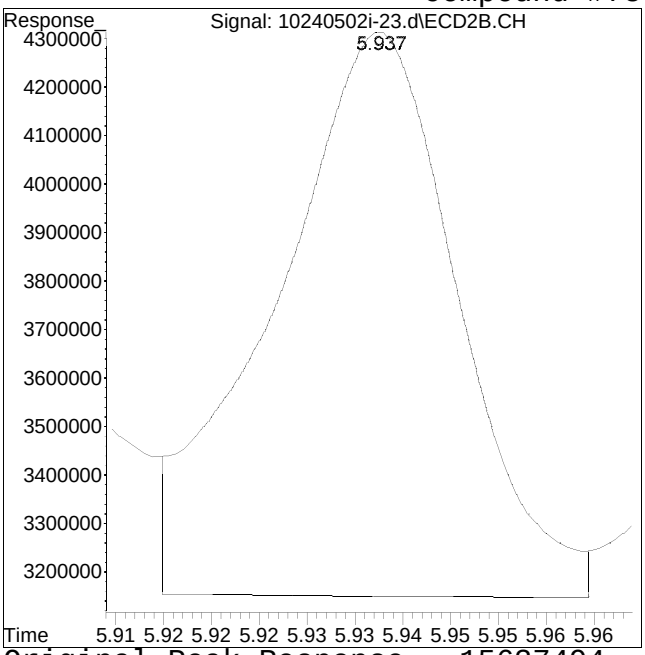


Original Peak Response = 14896292 Manual Peak Response = 20484244 M4
M4 = Poor automated baseline construction.

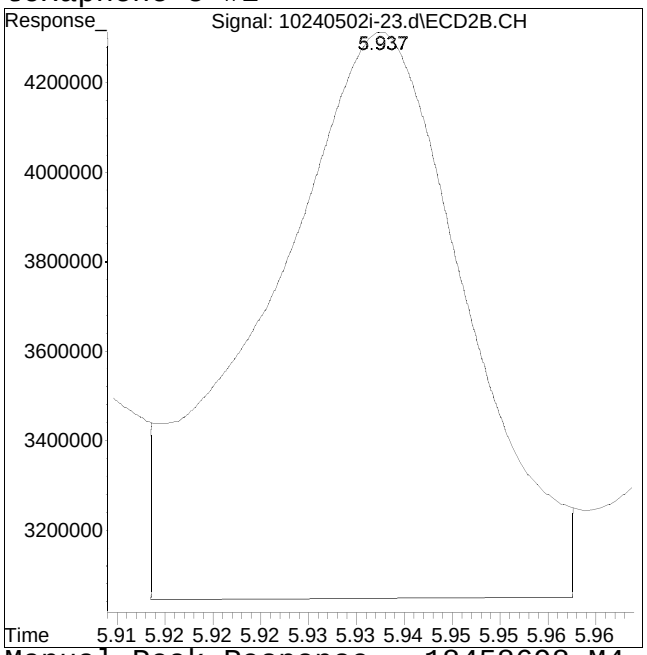
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #75: toxaphene-5 #2



Original Peak Response = 15637494



Manual Peak Response = 18458698 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:00 pm
Operator : PEST10:jag
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:12:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:12:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.318	1.429	387.3E6	135.8E6	25.000M4	25.000
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:00 pm
Operator : PEST10:jag
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:12:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:12:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.190	623.3E6	107.5E6	1030.632	979.972
35) l2	toxaphene-2	4.584	5.219	584.7E6	162.2E6	1024.928	991.822
36) l2	toxaphene-4	5.001	5.531	500.9E6	191.1E6	1008.991	974.782
37) l2	toxaphene-5	5.185	5.938	587.1E6	176.4E6	1011.844	982.712
Sum	toxaphene-1			2296.0E6	637.3E6	4076.395	3929.288
Average	toxaphene-1					1019.099	982.322

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			2296.0E6	637.3E6	4076.395	3929.288
Average	toxaphene-1					1019.099	982.322

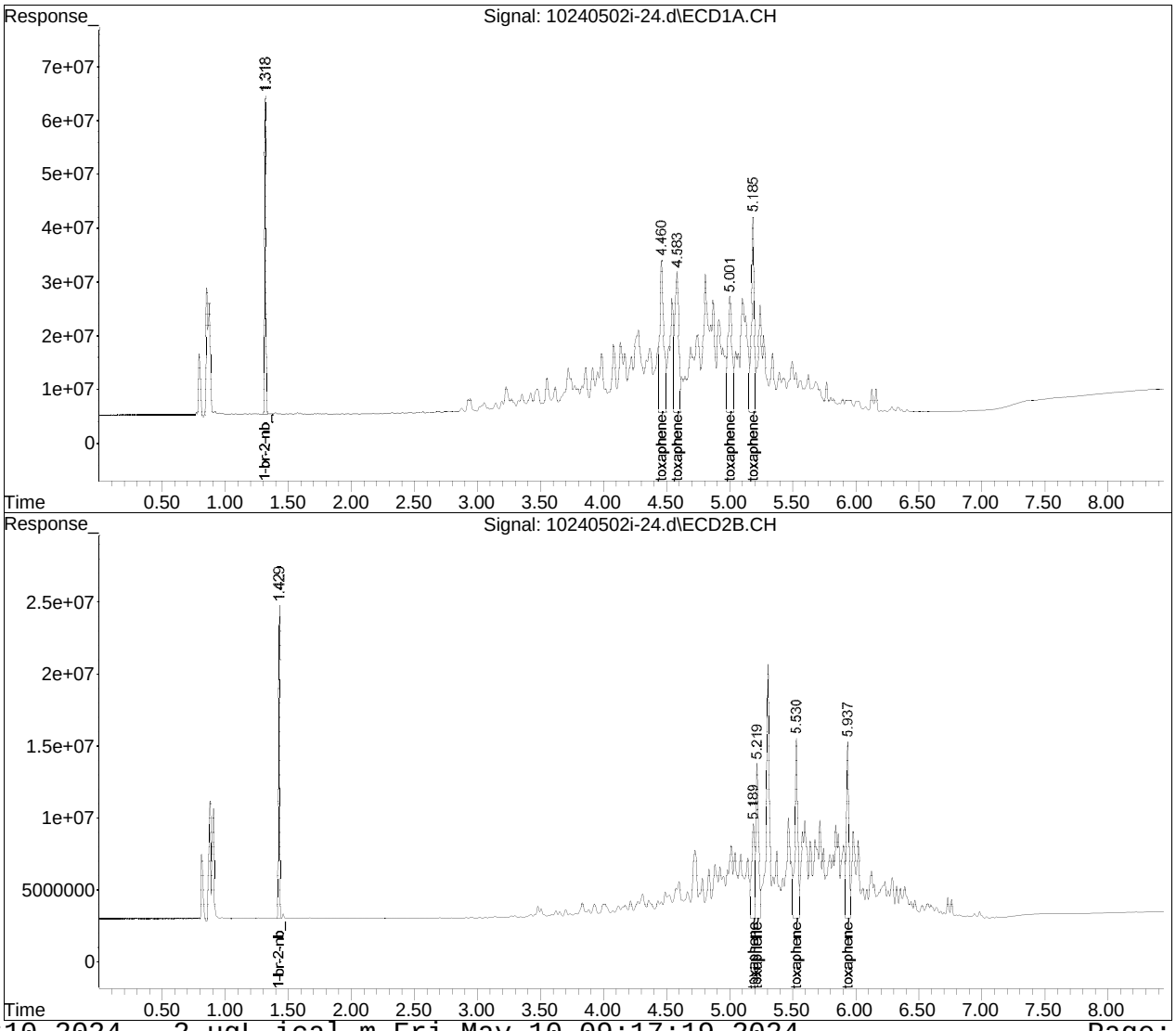
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:00 pm
Operator : PEST10:jag
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:12:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:12:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

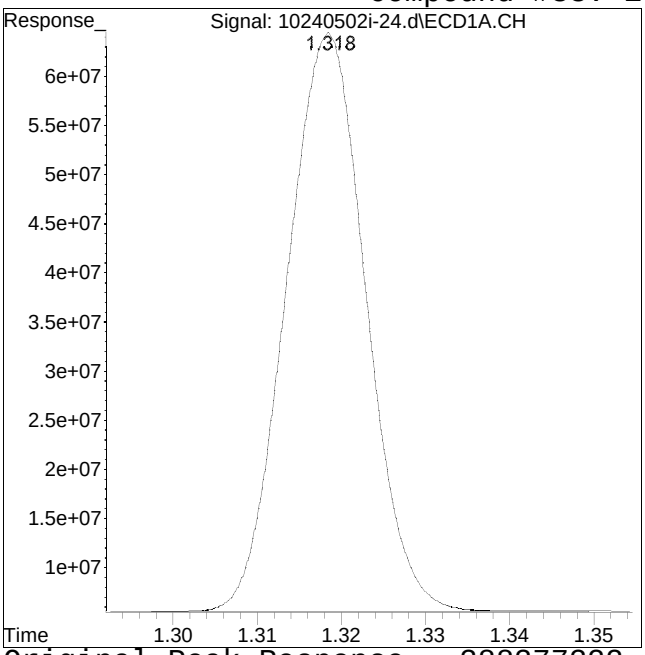
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

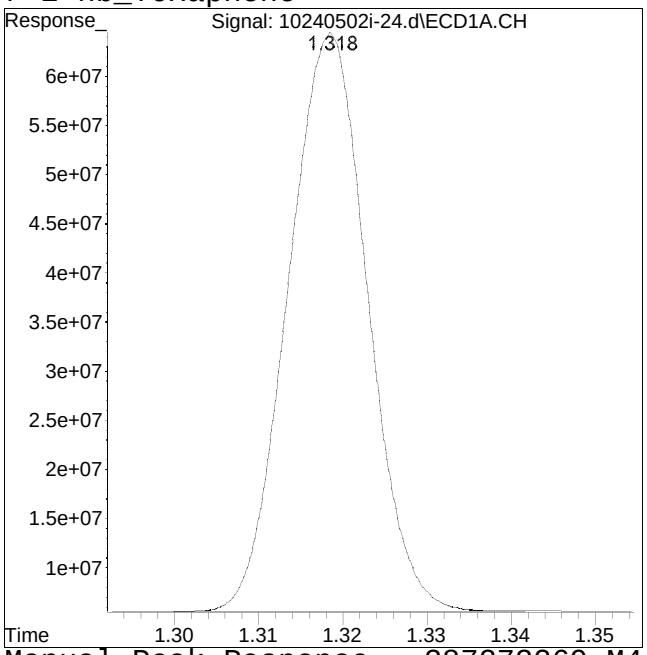


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-24.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:00 pm Instrument : Pest 10
Sample : il7tox,42e,,pp 11517 L1.0 Quant Date : 5/7/2024 6:12 pm

Compound #33: 1-br-2-nb_Toxaphene





Original Peak Response = 388377322 Manual Peak Response = 387273269 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:11 pm
Operator : PEST10:jag
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:09:48 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.317	1.428	383.2E6	131.9E6	25.000M3	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:11 pm
Operator : PEST10:jag
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:09:48 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.189	1191.6E6	212.3E6	NoCal	NoCal
35) l2	toxaphene-2	4.584	5.219	1122.6E6	314.1E6	NoCal	NoCal
36) l2	toxaphene-4	5.001	5.531	975.5E6	374.6E6	NoCal	NoCal
37) l2	toxaphene-5	5.185	5.937	1138.3E6	344.0E6	NoCal	NoCal
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

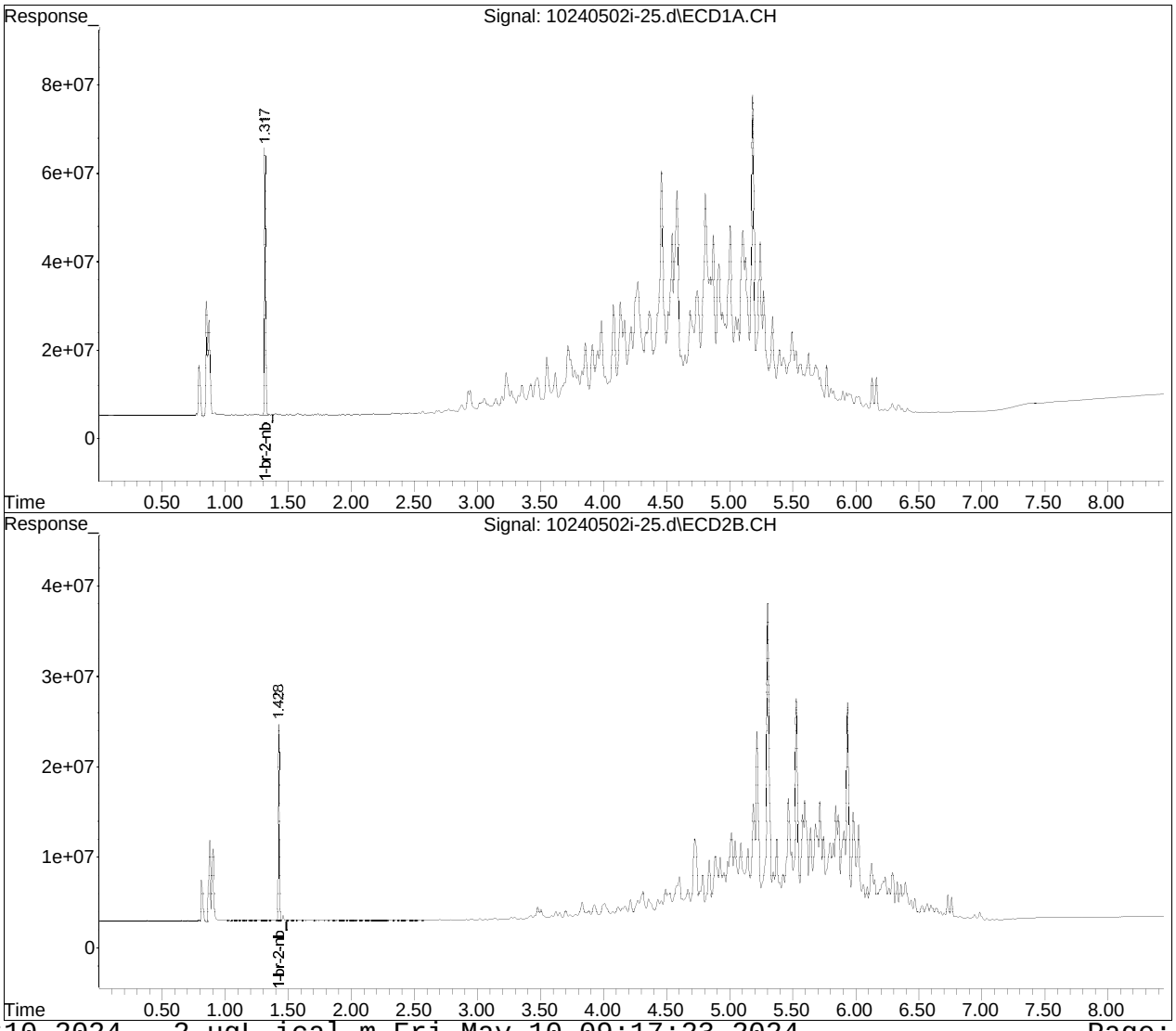
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:11 pm
Operator : PEST10:jag
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:09:48 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

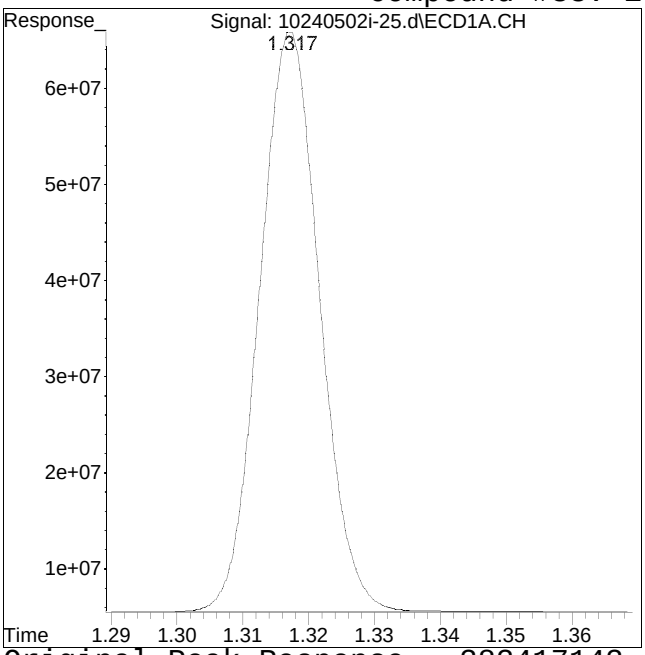
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

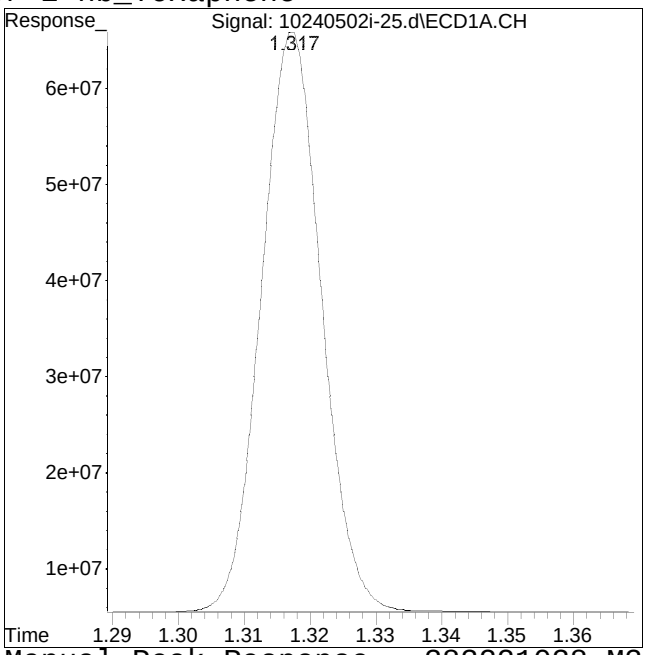


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-25.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:11 pm Instrument : Pest 10
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 5/7/2024 6:09 pm

Compound #33: 1-br-2-nb_Toxaphene



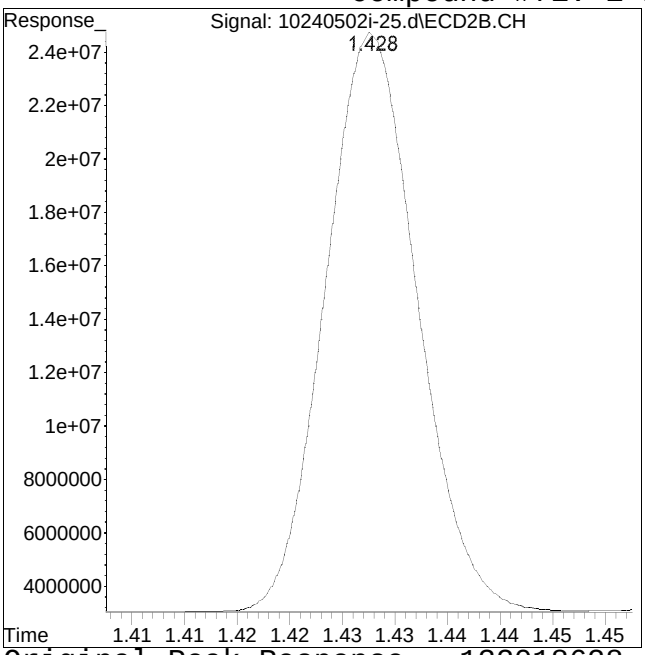


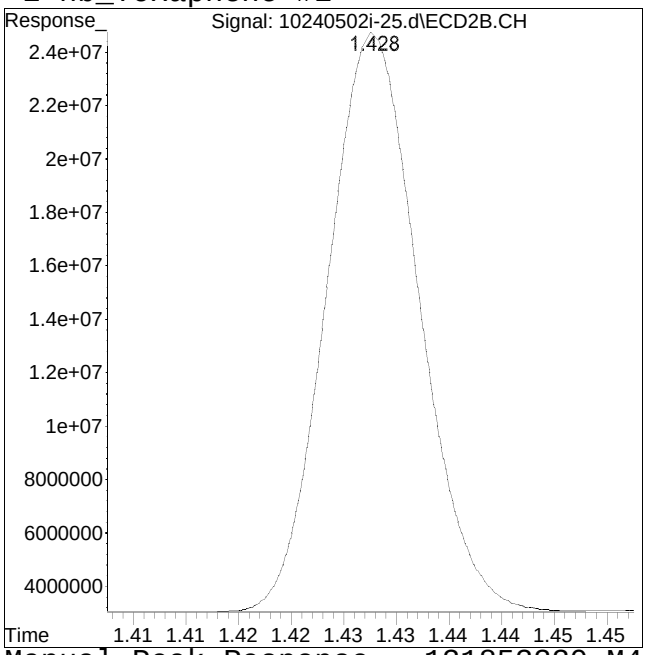
Original Peak Response = 383417143 Manual Peak Response = 383221038 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-25.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:11 pm Instrument : Pest 10
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 5/7/2024 6:09 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 132018628 Manual Peak Response = 131853330 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:22 pm
Operator : PEST10:jag
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:11:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:11:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.317	1.428	397.2E6	133.7E6	25.000M4	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:22 pm
Operator : PEST10:jag
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:11:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:11:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.459	5.188	3114.9E6	542.1E6	5043.544	5035.455
35) l2	toxaphene-2	4.583	5.218	2942.3E6	814.2E6	5057.013	5111.940
36) l2	toxaphene-4	4.999	5.530	2564.5E6	980.5E6	5072.519	5161.139
37) l2	toxaphene-5	5.184	5.936	3002.3E6	895.4E6	5089.132	5133.246
Sum	toxaphene-1			11624.0E6	3232.2E6	20262.209	20441.781
Average	toxaphene-1					5065.552	5110.445

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			11624.0E6	3232.2E6	20262.209	20441.781
Average	toxaphene-1					5065.552	5110.445

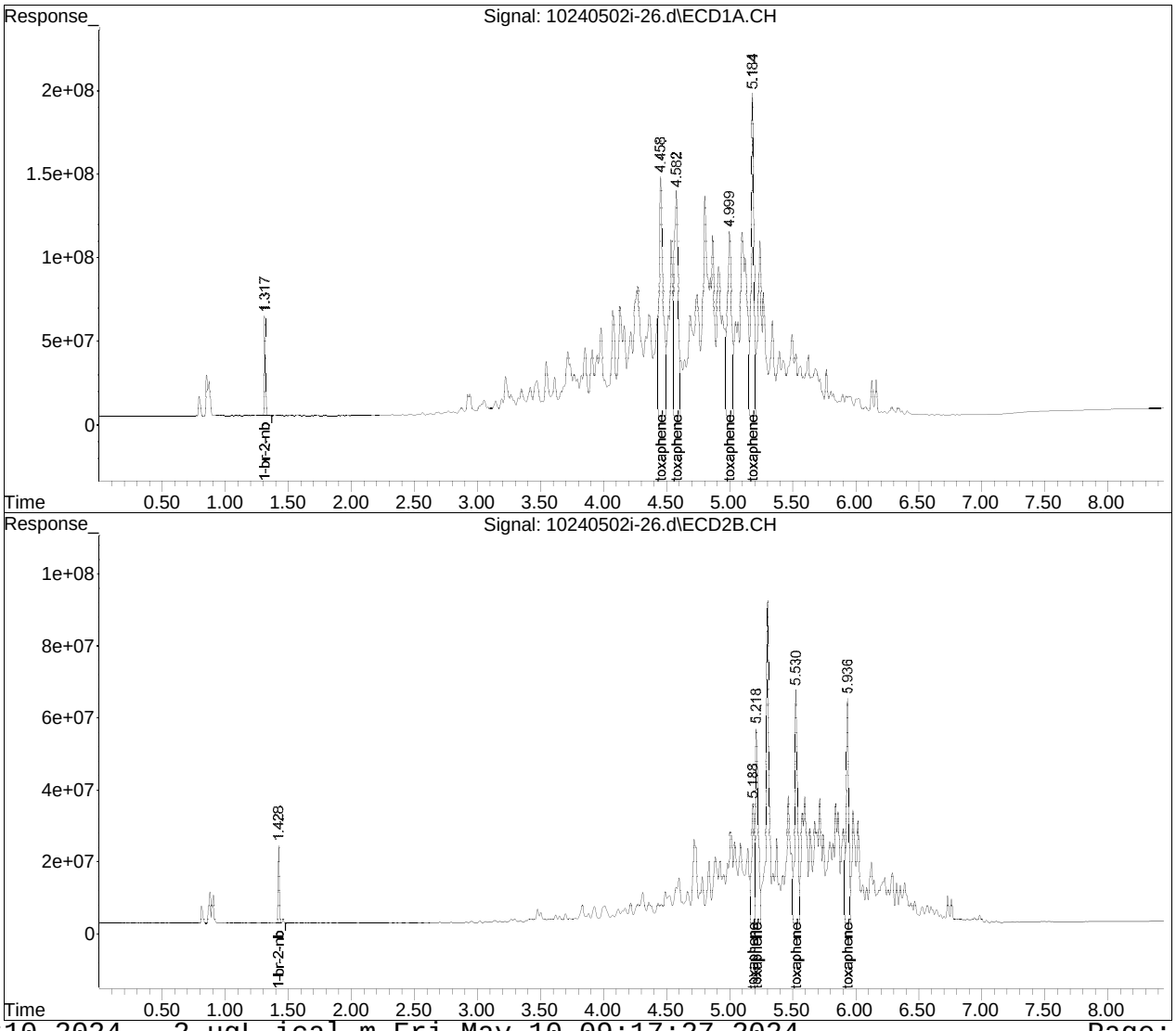
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:22 pm
Operator : PEST10:jag
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:11:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:11:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

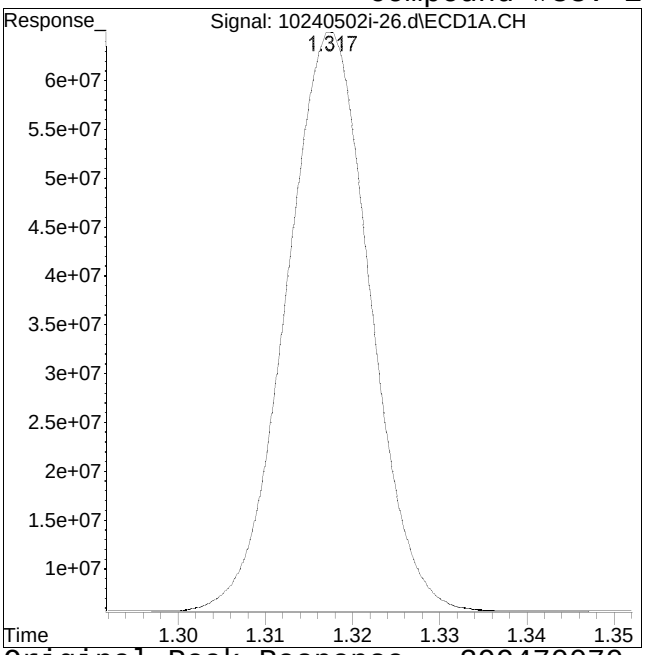
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

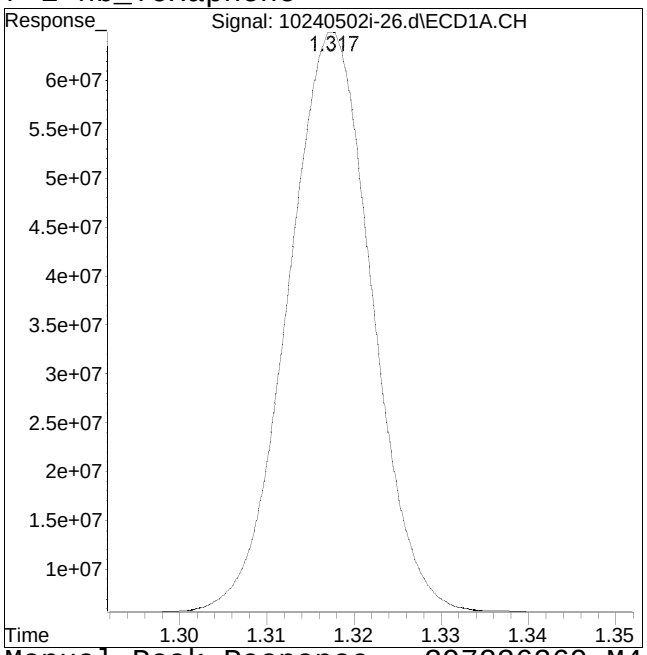


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-26.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:22 pm Instrument : Pest 10
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 5/7/2024 6:11 pm

Compound #33: 1-br-2-nb_Toxaphene



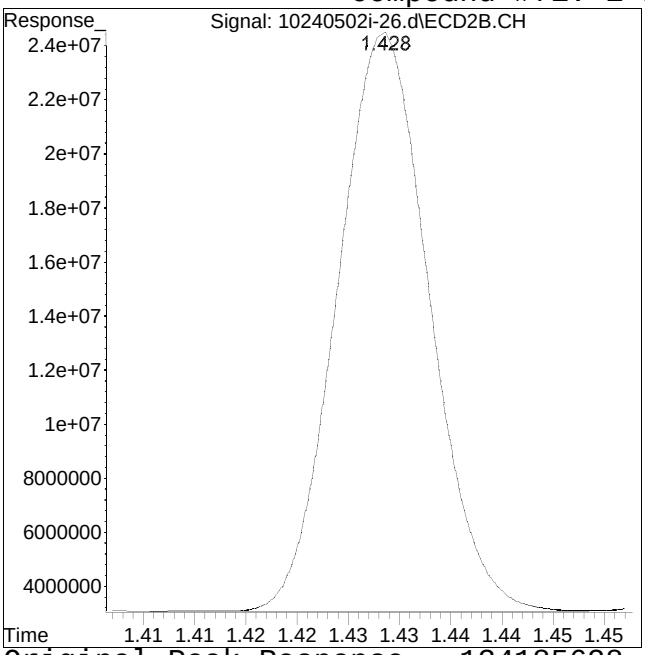


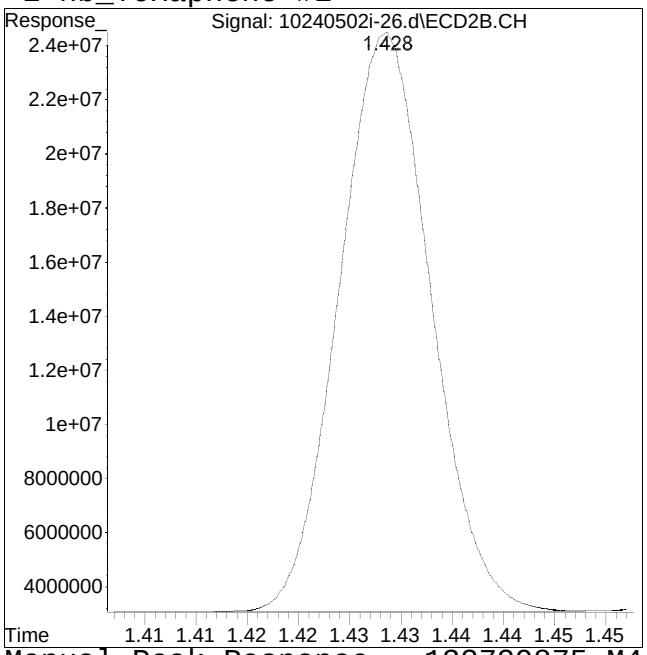
Original Peak Response = 399470070 Manual Peak Response = 397236369 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-26.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:22 pm Instrument : Pest 10
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 5/7/2024 6:11 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 134185628 Manual Peak Response = 133729875 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   8:33 pm
Operator : PEST10:jag
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	96	0.00
34	l2	toxaphene-1		*2000.000	2071.171	-3.6	100	0.00
35	l2	toxaphene-2		*2000.000	2055.228	-2.8	99	0.00
36	l2	toxaphene-4		*2000.000	2219.436	-11.0	107	0.00
37	l2	toxaphene-5		*2000.000	2088.577	-4.4	101	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	100	0.00
34	l2	toxaphene-1		*2000.000	2084.977	-4.2	105	0.00
35	l2	toxaphene-2		*2000.000	2051.890	-2.6	104	0.00
36	l2	toxaphene-4		*2000.000	1915.790	4.2	98	0.00
37	l2	toxaphene-5		*2000.000	2037.630	-1.9	104	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.32#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.88#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.98#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.18#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.23#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.53#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.77#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.89#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.98#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.32#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   8:33 pm
Operator : PEST10:jag
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.71#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.97#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.34#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.89#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.12#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.17#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.50#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.31#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.32#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.53#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-2.88#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.44#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.92#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.25#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.35#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.64#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.71#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.98#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   8:33 pm
Operator : PEST10:jag
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-3.05#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.38#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.26#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.62#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-4.01#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.23#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.40#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.59#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.46#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.74#
18	t	Endrin		1.086	0.000	100.0#	0#	-5.04#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.15#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.23#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.43#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.52#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.98#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.13#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.75#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.16#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.01#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.92#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.54#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.23#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.40#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:33 pm
Operator : PEST10:jag
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.317	1.428	364.7E6	132.2E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:33 pm
Operator : PEST10:jag
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.458	5.189	1187.4E6	222.8E6	2071.171	2084.977
35) l2	toxaphene-2	4.583	5.218	1110.3E6	328.1E6	2055.228	2051.890
36) l2	toxaphene-4	4.999	5.531	1041.7E6	367.1E6	2219.436	1915.790
37) l2	toxaphene-5	5.183	5.937	1147.4E6	357.4E6	2088.577	2037.630
Sum	toxaphene-1			4486.9E6	1275.4E6	8434.411	8090.287
Average	toxaphene-1					2108.603	2022.572

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			4486.9E6	1275.4E6	8434.411	8090.287
Average	toxaphene-1					2108.603	2022.572

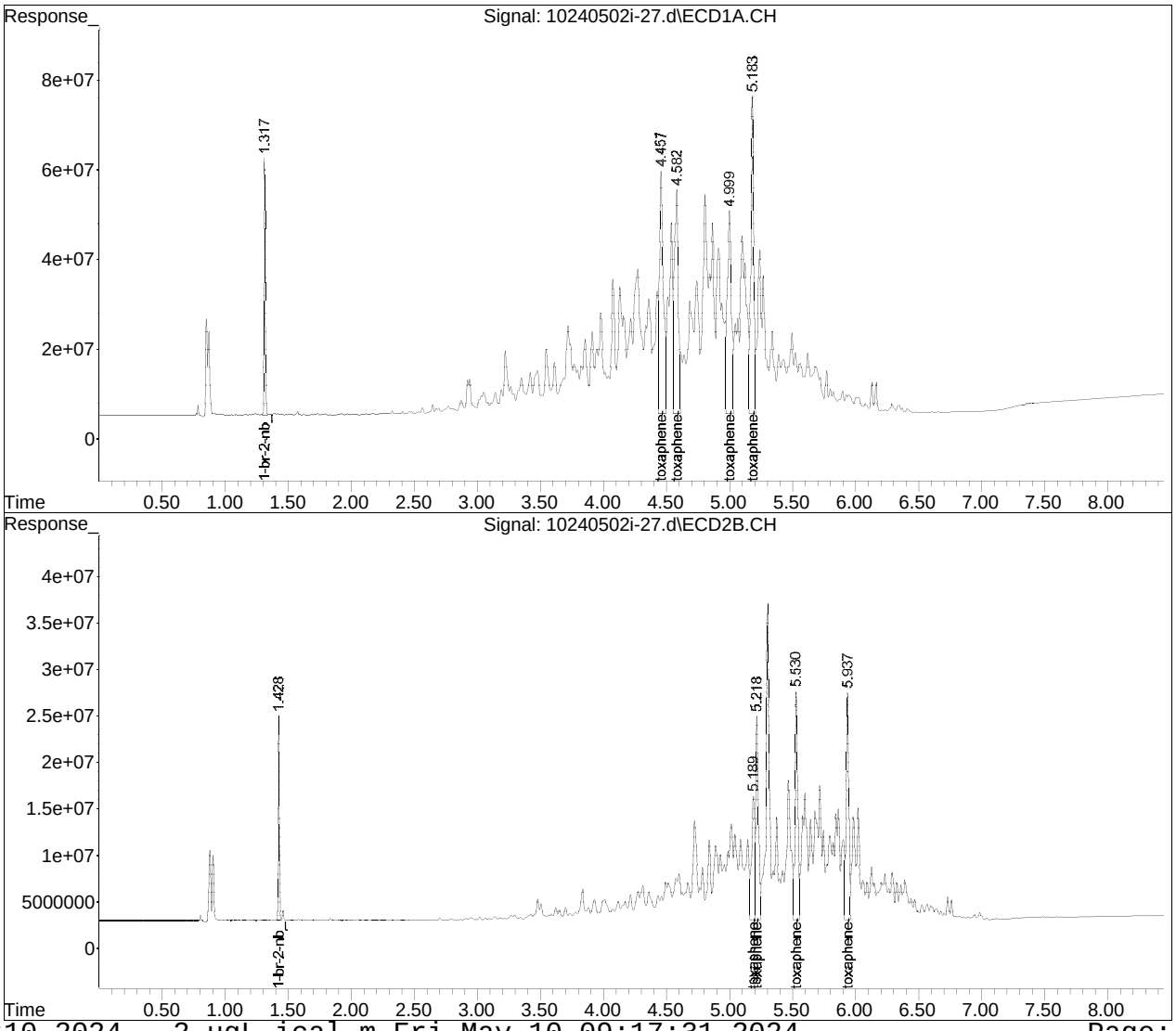
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:33 pm
Operator : PEST10:jag
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

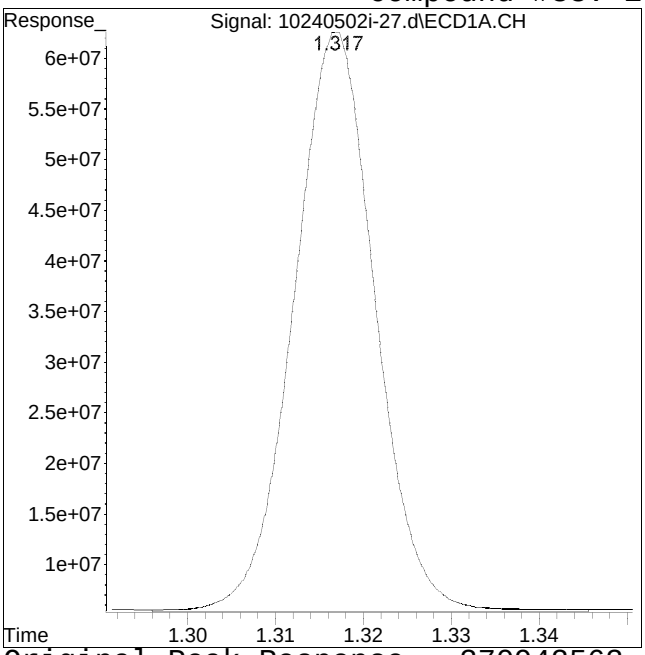
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

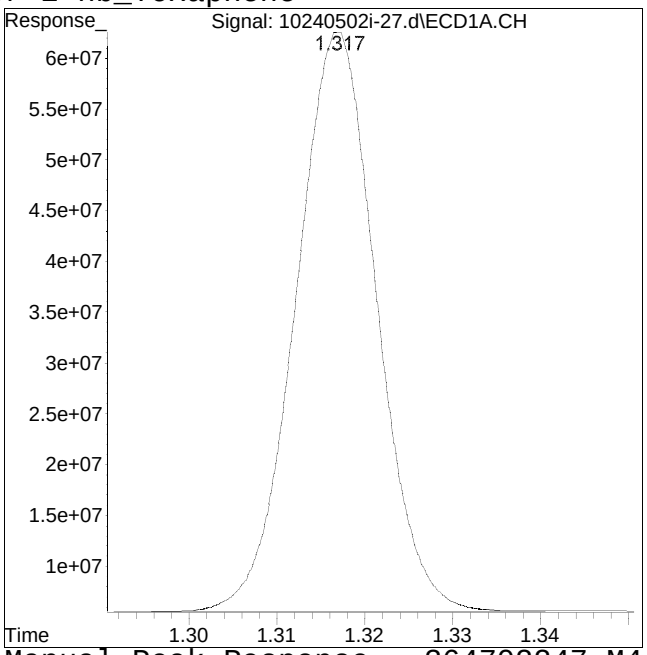


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-27.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:33 pm Instrument : Pest 10
Sample : cicvtox,42e,,pp 11541 L2.0Quant Date : 5/10/2024 8:39 am

Compound #33: 1-br-2-nb_Toxaphene



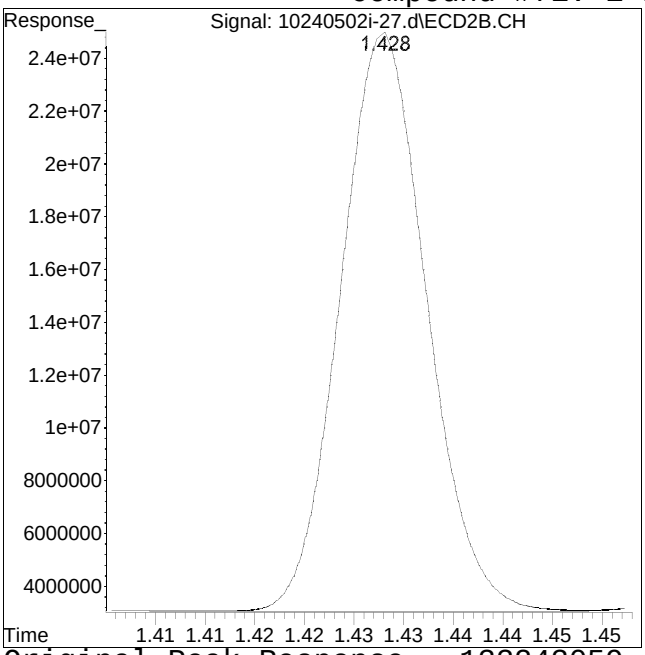


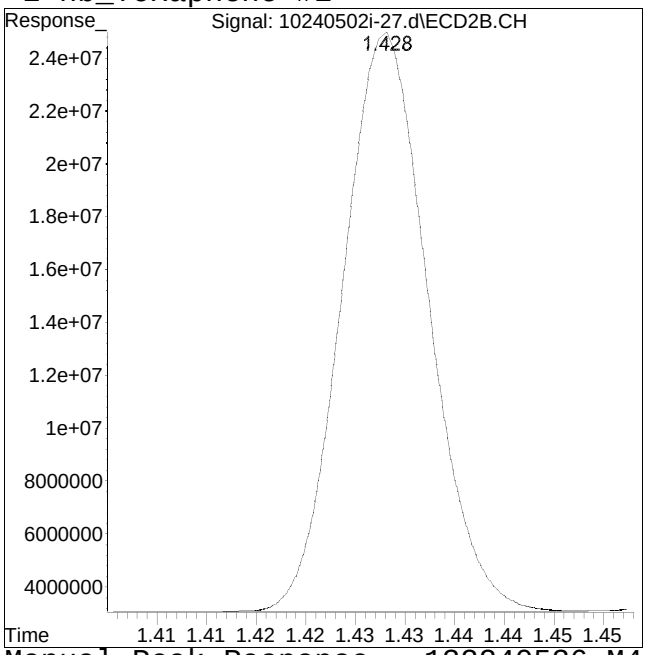
Original Peak Response = 370942563 Manual Peak Response = 364702247 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-27.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:33 pm Instrument : Pest 10
Sample : cicvtox,42e,,pp 11541 L2.0Quant Date : 5/10/2024 8:39 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 133243059 Manual Peak Response = 132240536 M4
M4 = Poor automated baseline construction.

Evaluate Relative Error Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
6	T beta-BHC	L	ug/l	50.0	49.775	-0.5	1.00	0.822	-17.8
10	T Alachlor	L	ug/l	50.0	56.327	12.7	3.00	2.412	-19.6
11	T Chlorpyrifos	L	ug/l	50.0	57.145	14.3	3.00	2.225	-25.8
22	T Endrin Aldehyde	L	ug/l	50.0	49.162	-1.7	1.00	1.150	15.0
23	T Methoxychlor	L	ug/l	50.0	54.892	9.8	2.00	1.421	-28.9
24	T Mirex	L	ug/l	50.0	50.935	1.9	2.00	1.639	-18.1
27	S Decachlorobiphenyl	L	ug/l	50.0	51.302	2.6	2.00	1.711	-14.4
29	L1 chlordane-1	L	ug/l	1000.0	1019.226	1.9	10.00	8.770	-12.3
30	L1 chlordane-3	L	ug/l	1000.0	1022.322	2.2	10.00	9.031	-9.7
31	L1 chlordane-4	L	ug/l	1000.0	1061.075	6.1	10.00	7.407	-25.9
32	L1 chlordane-5	L	ug/l	1000.0	1021.746	2.2	10.00	9.602	-4.0
34	L2 toxaphene-1	L	ug/l	2000.0	1977.195	-1.1	20.00	21.175	5.9
35	L2 toxaphene-2	L	ug/l	2000.0	1977.437	-1.1	20.00	19.766	-1.2
36	L2 toxaphene-4	L	ug/l	2000.0	1976.303	-1.2	20.00	22.215	11.1
37	L2 toxaphene-5	L	ug/l	2000.0	1971.049	-1.4	20.00	21.804	9.0
44	T beta-BHC #2	L	ug/l	50.0	49.819	-0.4	1.00	0.897	-10.3
48	T Alachlor #2	L	ug/l	50.0	53.823	7.6	3.00	2.722	-9.3
49	T Chlorpyrifos #2	L	ug/l	50.0	54.589	9.2	3.00	2.523	-15.9
60	T Endrin Aldehyde #2	L	ug/l	50.0	48.552	-2.9	1.00	1.108	10.8
61	T Methoxychlor #2	L	ug/l	50.0	52.156	4.3	2.00	1.776	-11.2
62	T Mirex #2	L	ug/l	50.0	52.305	4.6	2.00	1.703	-14.8
65	S Decachlorobiphenyl #2	L	ug/l	50.0	51.990	4.0	2.00	1.739	-13.0
67	L1 chlordane-1 #2	L	ug/l	1000.0	1032.739	3.3	10.00	8.743	-12.6
68	L1 chlordane-3 #2	L	ug/l	1000.0	1030.781	3.1	10.00	7.004	-30.0
69	L1 chlordane-4 #2	L	ug/l	1000.0	1023.146	2.3	10.00	9.609	-3.9
70	L1 chlordane-5 #2	L	ug/l	1000.0	1021.382	2.1	10.00	9.233	-7.7
72	L2 toxaphene-1 #2	L	ug/l	2000.0	1991.755	-0.4	20.00	19.086	-4.6
73	L2 toxaphene-2 #2	L	ug/l	2000.0	1969.860	-1.5	20.00	20.687	3.4
74	L2 toxaphene-4 #2	L	ug/l	2000.0	1960.985	-2.0	20.00	20.428	2.1
75	L2 toxaphene-5 #2	L	ug/l	2000.0	1966.690	-1.7	20.00	20.919	4.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
6	T beta-BHC	Linear	0.999568	0.000000	0.565778	0.0112877
10	T Alachlor	Linear	0.994017	0.000000	0.154368	0.0124621
11	T Chlorpyrifos	Linear	0.996067	0.000000	0.465357	0.0482604
22	T Endrin Aldehyde	Linear	0.999859	0.000000	0.807238	0.00726759
23	T Methoxychlor	Linear	0.998014	0.000000	0.486918	0.0271904
24	T Mirex	Linear	0.999581	0.000000	0.799161	0.0349066
27	S Decachlorobiphenyl	Linear	0.999480	0.000000	0.792624	0.0306797
29	L1 chlordane-1	Linear	0.999539	0.000000	0.0357685	0.00671473
30	L1 chlordane-3	Linear	0.999622	0.000000	0.0721112	0.0112298
31	L1 chlordane-4	Linear	0.995003	0.000000	0.0407934	0.0129288
32	L1 chlordane-5	Linear	0.999751	0.000000	0.156335	0.0223003
34	L2 toxaphene-1	Linear	0.999871	0.000000	0.0389611	0.0281078
35	L2 toxaphene-2	Linear	0.999926	0.000000	0.0369763	0.0046102
36	L2 toxaphene-4	Linear	0.999762	0.000000	0.0319657	0.0184827
37	L2 toxaphene-5	Linear	0.999803	0.000000	0.037424	0.0196503
44	T beta-BHC #2	Linear	0.999935	0.000000	0.547051	0.00772002
48	T Alachlor #2	Linear	0.997295	0.000000	0.158651	0.0133878
49	T Chlorpyrifos #2	Linear	0.997712	0.000000	0.504611	0.0366705
60	T Endrin Aldehyde #2	Linear	0.999661	0.000000	0.773149	-0.00435029
61	T Methoxychlor #2	Linear	0.999503	0.000000	0.474554	0.0139249
62	T Mirex #2	Linear	0.999451	0.000000	0.714545	0.0321042
65	S Decachlorobiphenyl #2	Linear	0.998873	0.000000	0.708697	0.0272536
67	L1 chlordane-1 #2	Linear	0.999156	0.000000	0.0319783	0.00644996
68	L1 chlordane-3 #2	Linear	0.996618	0.000000	0.0371132	0.0120836

69	L1 chlordane-4 #2	Linear	0.999516	0.000000	0.131142	0.0141895
70	L1 chlordane-5 #2	Linear	0.999396	0.000000	0.102712	0.0152716
72	L2 toxaphene-1 #2	Linear	0.999830	0.000000	0.0201269	0.00650294
73	L2 toxaphene-2 #2	Linear	0.999846	0.000000	0.0301138	0.00911802
74	L2 toxaphene-4 #2	Linear	0.999648	0.000000	0.0361286	0.00723072
75	L2 toxaphene-5 #2	Linear	0.999756	0.000000	0.0330505	0.0088149

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST10	**Calibration Date**	: 06/20/24 06:42		
Lab File ID	: 10240620a-03	**Init. Calib. Date(s)**	: 05/02/24	05/02/24	
Sample No	: WG1936891-1	**Init. Calib. Times**	: 16:08	20:22	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	121	0
2,4,5,6-Tetrachloro-m-xylen	1.085	1.29	-	-18.9	20	161	0
Hexachlorobenzene	1.16	1.343	-	-15.8	20	157	0
alpha-BHC	1.51	1.997	-	-32.3*	20	165	0
gamma-BHC (lindane)	1.431	1.785	-	-24.7*	20	161	0
beta-BHC	50	63.219	-	-26.4*	20	156	0
delta-BHC	1.412	1.704	-	-20.7*	20	152	0
Heptachlor	1.359	1.806	-	-32.9*	20	172	0
Aldrin	1.282	1.701	-	-32.7*	20	170	0
Alachlor	50	73.622	-	-47.2*	20	160	0
Chlorpyrifos	50	79.05	-	-58.1*	20	168	0
Heptachlor Epoxide	1.221	1.552	-	-27.1*	20	167	0
gamma-Chlordane (trans)	1.117	1.623	-	-45.3*	20	194	0
alpha-Chlordane (cis)	1.269	1.59	-	-25.3*	20	169	0
4,4'-DDE	1.202	1.572	-	-30.8*	20	167	0
Endosulfan I	1.163	1.451	-	-24.8*	20	164	0
Dieldrin	1.2	1.68	-	-40*	20	181	0
Endrin	1.233	1.611	-	-30.7*	20	169	0
4,4'-DDD	0.977	1.355	-	-38.7*	20	179	0
Endosulfan II	1.064	1.427	-	-34.1*	20	172	0
4,4'-DDT	1.081	1.316	-	-21.7*	20	159	0
Endrin Aldehyde	50	59.657	-	-19.3	20	149	0
Methoxychlor	50	79.692	-	-59.4*	20	177	0
Mirex	50	113.615	-	-127.2*	20	271	0
Endosulfan Sulfate	1.055	1.365	-	-29.4*	20	173	0
Endrin Ketone	1.157	1.614	-	-39.5*	20	183	0
Decachlorobiphenyl	50	41.679	-	16.6	20	100	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST10	**Calibration Date**	: 06/20/24 06:42		
Lab File ID	: 10240620a-03	**Init. Calib. Date(s)**	: 05/02/24	05/02/24	
Sample No	: WG1936891-1	**Init. Calib. Times**	: 16:08	20:22	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	98	0
2,4,5,6-Tetrachloro-m-xyl	0.94	1.122	-	-19.4	20	123	0
Hexachlorobenzene	1.08	1.216	-	-12.6	20	121	0
alpha-BHC	1.339	1.682	-	-25.6*	20	122	0
gamma-BHC (lindane)	1.257	1.52	-	-20.9*	20	121	0
beta-BHC	50	59.068	-	-18.1	20	120	0
delta-BHC	1.262	1.482	-	-17.4	20	116	0
Heptachlor	1.248	1.494	-	-19.7	20	123	0
Aldrin	1.137	1.404	-	-23.5*	20	125	0
Alachlor	50	67.164	-	-34.3*	20	125	0
Chlorpyrifos	50	66.172	-	-32.3*	20	122	0
Heptachlor Epoxide	1.137	1.319	-	-16	20	122	0
gamma-Chlordane (trans)	1.011	1.343	-	-32.8*	20	140	0
alpha-Chlordane (cis)	1.137	1.325	-	-16.5	20	123	0
4,4'-DDE	1.052	1.29	-	-22.6*	20	123	0
Endosulfan I	1.058	1.233	-	-16.5	20	122	0
Dieldrin	1.059	1.385	-	-30.8*	20	133	0
Endrin	1.086	1.328	-	-22.3*	20	124	0
4,4'-DDD	0.846	1.094	-	-29.3*	20	132	0
Endosulfan II	0.951	1.179	-	-24*	20	125	0
4,4'-DDT	0.96	1.164	-	-21.2*	20	124	0
Endrin Aldehyde	50	51.931	-	-3.9	20	108	0
Methoxychlor	50	65.048	-	-30.1*	20	126	0
Mirex	50	64.845	-	-29.7*	20	125	0
Endosulfan Sulfate	0.948	1.105	-	-16.6	20	124	0
Endrin Ketone	1.033	1.293	-	-25.2*	20	130	0
Decachlorobiphenyl	50	37.584	-	24.8*	20	73	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST10	**Calibration Date**	: 06/20/24 06:53		
Lab File ID	: 10240620a-04	**Init. Calib. Date(s)**	: 05/02/24	05/02/24	
Sample No	: WG1936891-2	**Init. Calib. Times**	: 16:08	20:22	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	129	0
chlordane-1	1000	1067.318	-	-6.7	20	135	0
chlordane-3	1000	839.819	-	16	20	106	0
chlordane-4	1000	1090.003	-	-9	20	132	0
chlordane-5	1000	1080.132	-	-8	20	136	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST10	**Calibration Date**	: 06/20/24 06:53		
Lab File ID	: 10240620a-04	**Init. Calib. Date(s)**	: 05/02/24	05/02/24	
Sample No	: WG1936891-2	**Init. Calib. Times**	: 16:08	20:22	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	95	0
chlordane-1	1000	1077.221	-	-7.7	20	98	0
chlordane-3	1000	1060.947	-	-6.1	20	97	0
chlordane-4	1000	1033.549	-	-3.4	20	95	0
chlordane-5	1000	1003.374	-	-0.3	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST10	**Calibration Date**	: 06/20/24 07:04		
Lab File ID	: 10240620a-05	**Init. Calib. Date(s)**	: 05/02/24	05/02/24	
Sample No	: WG1936891-3	**Init. Calib. Times**	: 16:08	20:22	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	143	0
toxaphene-1	2000	2079.818	-	-4	20	150	0
toxaphene-2	2000	2025.53	-	-1.3	20	146	0
toxaphene-4	2000	2253.103	-	-12.7	20	162	0
toxaphene-5	2000	2105.662	-	-5.3	20	152	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST10	**Calibration Date**	: 06/20/24 07:04		
Lab File ID	: 10240620a-05	**Init. Calib. Date(s)**	: 05/02/24	05/02/24	
Sample No	: WG1936891-3	**Init. Calib. Times**	: 16:08	20:22	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	108	0
toxaphene-1	2000	2142.475	-	-7.1	20	117	0
toxaphene-2	2000	2120.482	-	-6	20	117	0
toxaphene-4	2000	1977.11	-	1.1	20	110	0
toxaphene-5	2000	2093.891	-	-4.7	20	116	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:42
Operator : PEST10:peg
Sample   : wg1936891-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:03:42 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	121	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	1.290	-18.9	161#	0.00
3	t	Hexachlorobenzene		1.160	1.343	-15.8	157#	0.00
4	t	alpha-BHC		1.510	1.997	-32.3#	165#	0.00
5	t	gamma-BHC (lindane)		1.431	1.785	-24.7#	161#	0.00
6	t	beta-BHC	*	50.000	63.219	-26.4#	156	0.00
7	t	delta-BHC		1.412	1.704	-20.7#	152#	0.00
8	t	Heptachlor		1.359	1.806	-32.9#	172#	0.00
9	t	Aldrin		1.282	1.701	-32.7#	170#	0.00
10	t	Alachlor	*	50.000	73.622	-47.2#	160	0.00
11	t	Chlorpyrifos	*	50.000	79.050	-58.1#	168	0.00
12	t	Heptachlor Epoxide		1.221	1.552	-27.1#	167#	0.00
13	t	gamma-Chlordane (trans)		1.117	1.623	-45.3#	194#	0.00
14	t	alpha-Chlordane (cis)		1.269	1.590	-25.3#	169#	0.00
15	t	4,4'-DDE		1.202	1.572	-30.8#	167#	0.00
16	t	Endosulfan I		1.163	1.451	-24.8#	164#	0.00
17	t	Dieldrin		1.200	1.680	-40.0#	181#	0.00
18	t	Endrin		1.233	1.611	-30.7#	169#	0.00
19	t	4,4'-DDD		0.977	1.355	-38.7#	179#	0.00
20	t	Endosulfan II		1.064	1.427	-34.1#	172#	0.00
21	t	4,4'-DDT		1.081	1.316	-21.7#	159#	0.00
22	t	Endrin Aldehyde	*	50.000	59.657	-19.3	149	0.00
23	t	Methoxychlor	*	50.000	79.692	-59.4#	177	0.00
24	t	Mirex	*	50.000	113.615	-127.2#	271	0.00
25	t	Endosulfan Sulfate		1.055	1.365	-29.4#	173#	0.00
26	t	Endrin Ketone		1.157	1.614	-39.5#	183#	0.00
27	s	Decachlorobiphenyl	*	50.000	41.679	16.6	100	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:42
Operator : PEST10:peg
Sample   : wg1936891-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:03:42 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	1.122	-19.4	123	0.00
3	t	Hexachlorobenzene		1.080	1.216	-12.6	121	0.00
4	t	alpha-BHC		1.339	1.682	-25.6#	122	0.00
5	t	gamma-BHC (lindane)		1.257	1.520	-20.9#	121	0.00
6	t	beta-BHC	*	50.000	59.068	-18.1	120	0.00
7	t	delta-BHC		1.262	1.482	-17.4	116	0.00
8	t	Heptachlor		1.248	1.494	-19.7	123	0.00
9	t	Aldrin		1.137	1.404	-23.5#	125	0.00
10	t	Alachlor	*	50.000	67.164	-34.3#	125	0.00
11	t	Chlorpyrifos	*	50.000	66.172	-32.3#	122	0.00
12	t	Heptachlor Epoxide		1.137	1.319	-16.0	122	0.00
13	t	gamma-Chlordane (trans)		1.011	1.343	-32.8#	140	0.00
14	t	alpha-Chlordane (cis)		1.137	1.325	-16.5	123	0.00
15	t	4,4'-DDE		1.052	1.290	-22.6#	123	0.00
16	t	Endosulfan I		1.058	1.233	-16.5	122	0.00
17	t	Dieldrin		1.059	1.385	-30.8#	133	0.00
18	t	Endrin		1.086	1.328	-22.3#	124	0.00
19	t	4,4'-DDD		0.846	1.094	-29.3#	132	0.00
20	t	Endosulfan II		0.951	1.179	-24.0#	125	0.00
21	t	4,4'-DDT		0.960	1.164	-21.2#	124	0.00
22	t	Endrin Aldehyde	*	50.000	51.931	-3.9	108	0.00
23	t	Methoxychlor	*	50.000	65.048	-30.1#	126	0.00
24	t	Mirex	*	50.000	64.845	-29.7#	125	0.00
25	t	Endosulfan Sulfate		0.948	1.105	-16.6	124	0.00
26	t	Endrin Ketone		1.033	1.293	-25.2#	130	0.00
27	s	Decachlorobiphenyl	*	50.000	37.584	24.8#	73	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:42
Operator : PEST10:peg
Sample   : wg1936891-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:03:42 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.38#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.44#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.79#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.34#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.35#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.48#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.90#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.09#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.38#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.83#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.44#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.13#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.30#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.38#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.10#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.13#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.45#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.86#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:42
Operator : PEST10:peg
Sample : wg1936891-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:03:42 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.262	1.377	465.0E6	137.9E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.599	1.858	1200.0E6	309.6E6	59.451M4	59.689M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		118.90%	119.38%
27) s	Decachlorobi	6.229	6.944	628.7E6	150.7E6	41.679M4	37.584M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		83.36%	75.17%
	Target Compounds						
3) t	Hexachlorobe	1.807	2.181	1249.3E6	335.3E6	57.918M4	56.257M3
4) t	alpha-BHC	1.904	2.279	1856.7E6	463.9E6	66.098M4	62.816
5) t	gamma-BHC (l	2.102	2.566	1659.8E6	419.3E6	62.349M4	60.453
6) t	beta-BHC	2.157	2.631	670.5E6	179.3E6	63.219M4	59.068
7) t	delta-BHC	2.282	2.899	1584.5E6	408.9E6	60.320	58.714
8) t	Heptachlor	2.440	2.965	1679.6E6	412.2E6	66.431M4	59.841
9) t	Aldrin	2.678	3.286	1582.1E6	387.3E6	66.350	61.733
10) t	Alachlor	2.799	3.168	217.2E6	60636544	73.622	67.164
11) t	Chlorpyrifos	2.888	3.524	706.6E6	189.3E6	79.050	66.172
12) t	Heptachlor E	3.212	3.904	1442.9E6	363.9E6	63.523M4	58.012M4
13) t	gamma-Chlord	3.333	4.126	1509.0E6	370.5E6	72.623M4	66.398

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:42
Operator : PEST10:peg
Sample : wg1936891-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:03:42 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14)	t	alpha-Chlord	3.466	4.297	1478.9E6	365.6E6	62.654	58.267
15)	t	4,4'-DDE	3.562	4.494	1462.0E6	355.9E6	65.401M4	61.351
16)	t	Endosulfan I	3.600	4.358	1349.3E6	340.3E6	62.390M4	58.302
17)	t	Dieldrin	3.857	4.650	1562.0E6	382.0E6	69.981M4	65.405
18)	t	Endrin	4.110	4.947	1498.2E6	366.4E6	65.350	61.139
19)	t	4,4'-DDD	4.226	5.068	1260.3E6	301.7E6	69.355	64.662M4
20)	t	Endosulfan I	4.358	5.145	1327.2E6	325.3E6	67.073	61.977M4
21)	t	4,4'-DDT	4.528	5.346	1223.5E6	321.0E6	60.841	60.626M4
22)	t	Endrin Aldeh	4.787	5.442	899.0E6	220.9E6	59.657	51.931M4
23)	t	Methoxychlor	5.028	5.911	734.3E6	172.2E6	79.692M4	65.048
24)	t	Mirex	5.077	6.048	1704.9E6	260.1E6	113.615M4	64.845
D								
25)	t	Endosulfan S	5.187	5.671	1269.1E6	304.9E6	64.672	58.285
26)	t	Endrin Keton	5.417	6.083	1501.2E6	356.7E6	69.748	62.569
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:42
Operator : PEST10:peg
Sample : wg1936891-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:03:42 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

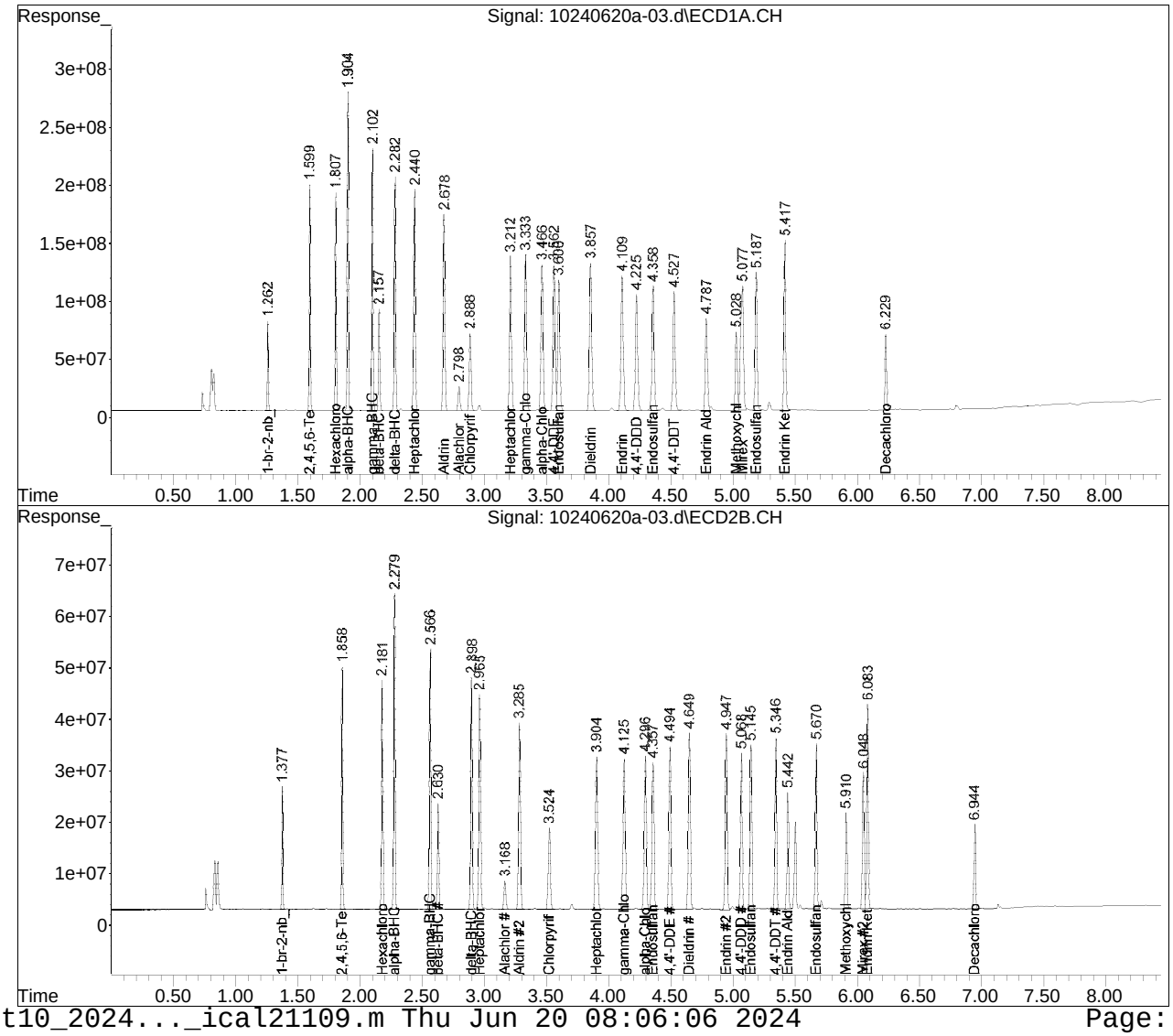
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:42
Operator : PEST10:peg
Sample : wg1936891-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:03:42 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:03:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

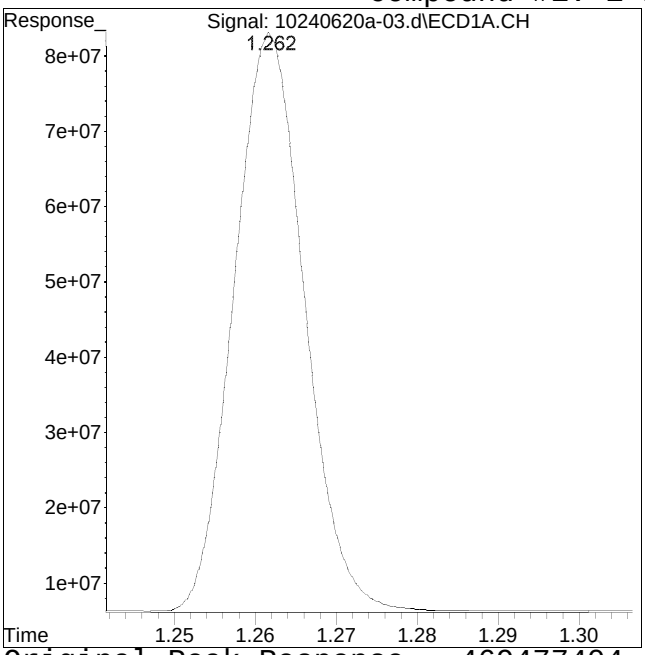


Manual Integration Report

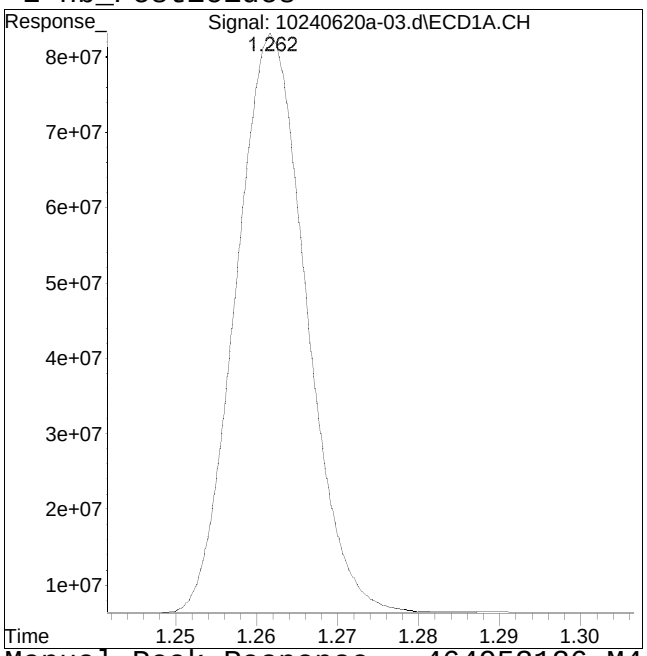
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 469477404



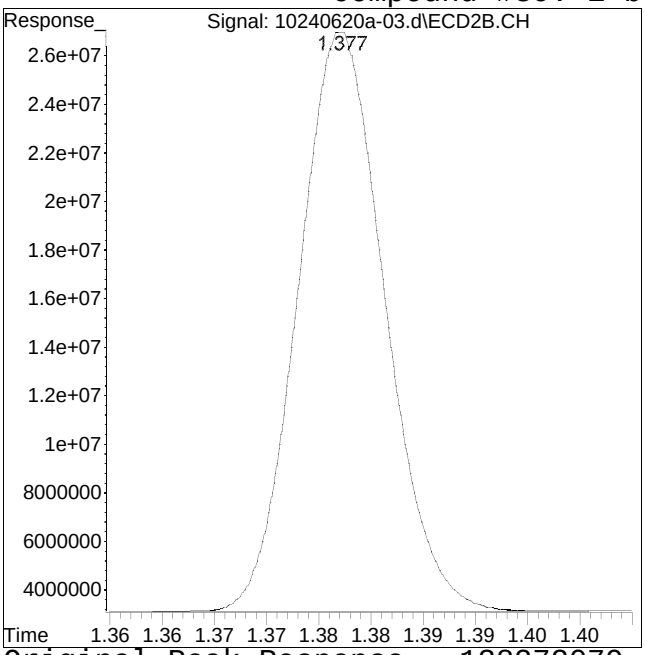
Manual Peak Response = 464953126 M4

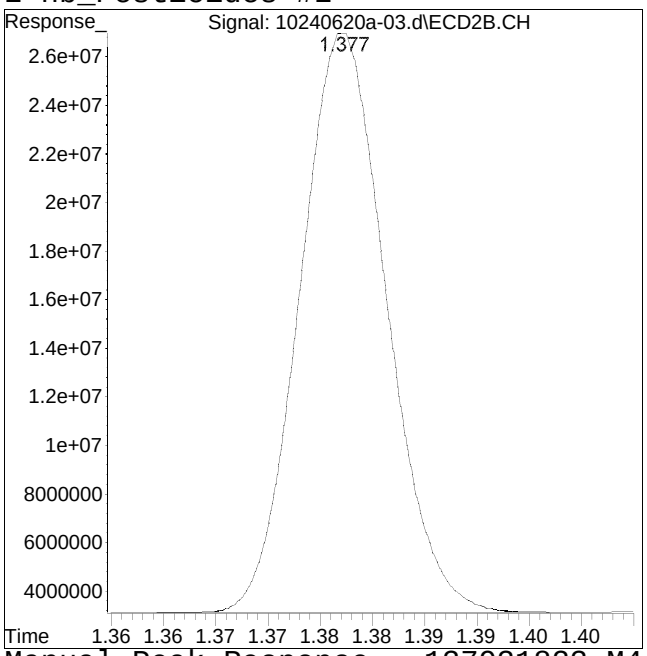
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #39: 1-br-2-nb_Pesticides #2





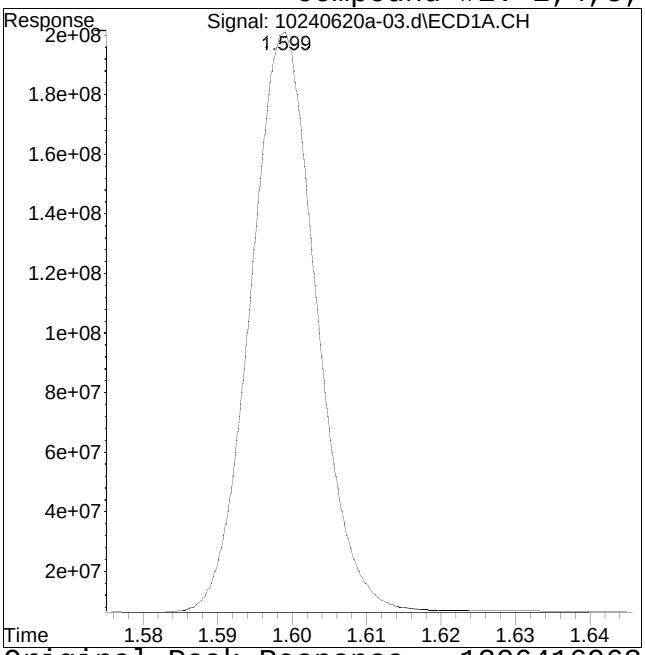
Original Peak Response = 138272079 Manual Peak Response = 137931823 M4
M4 = Poor automated baseline construction.

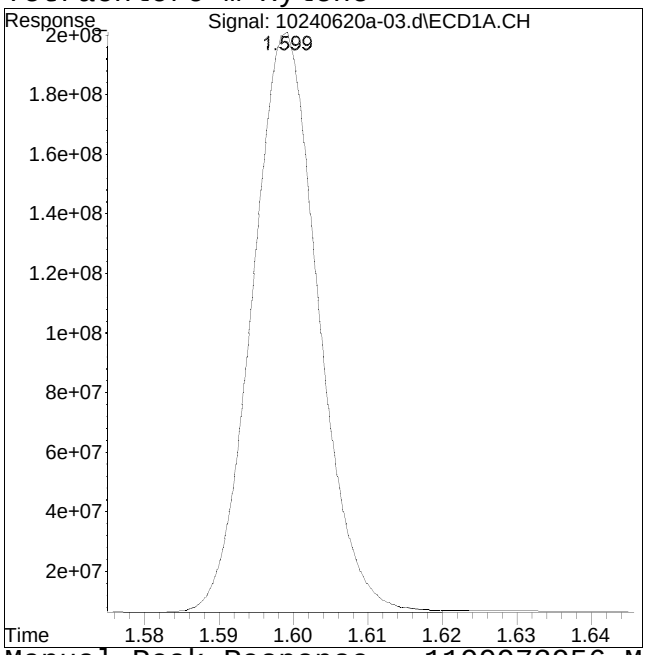
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





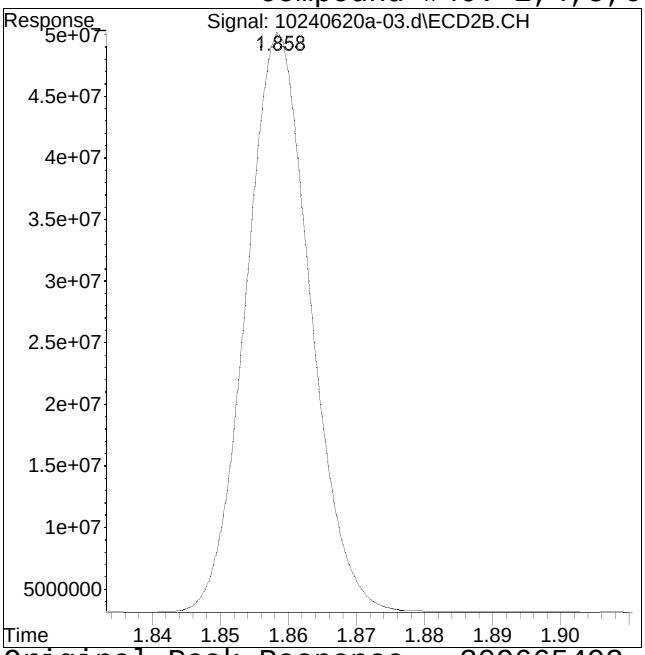
Original Peak Response = 1206416963 Manual Peak Response = 1199973956 M4
M4 = Poor automated baseline construction.

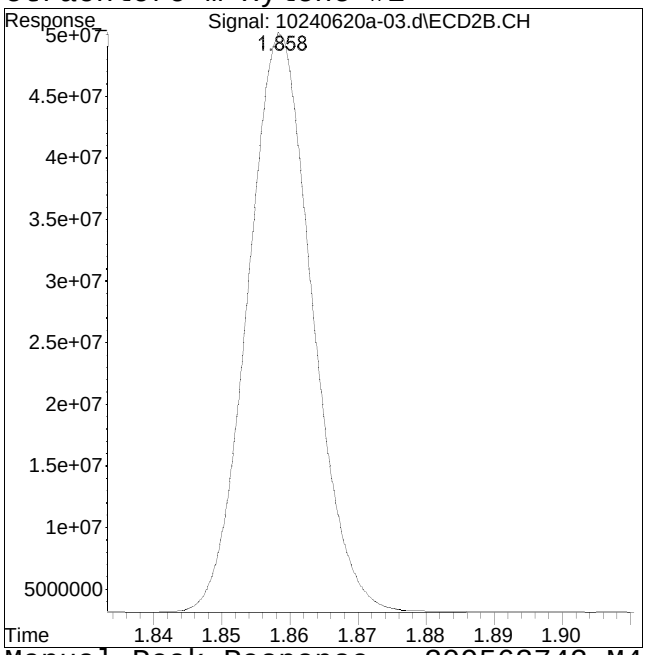
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





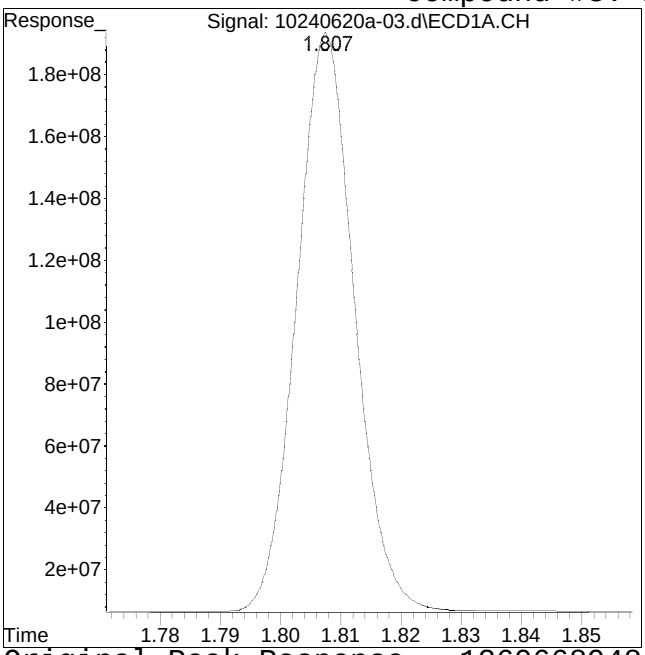
Original Peak Response = 309665493 Manual Peak Response = 309563742 M4
M4 = Poor automated baseline construction.

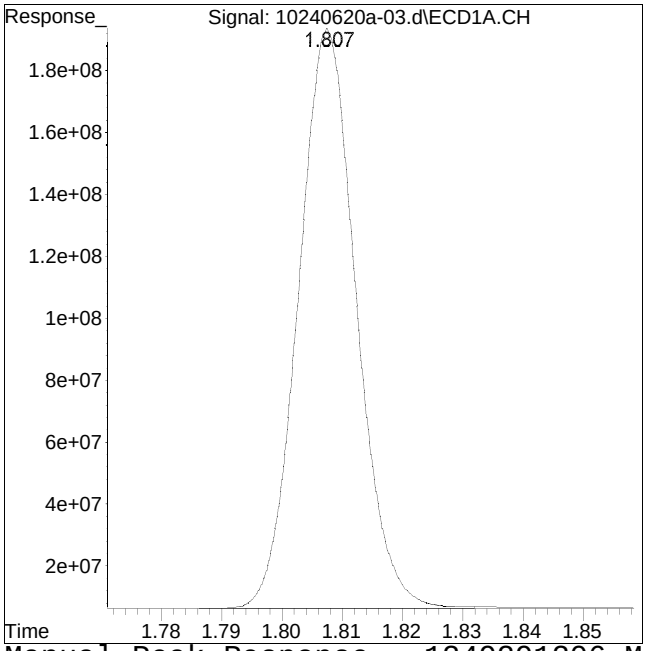
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #3: Hexachlorobenzene





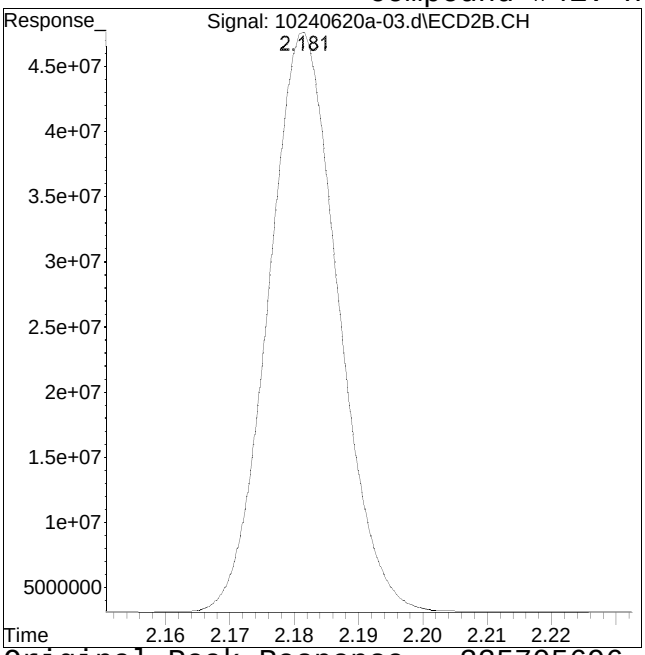
Original Peak Response = 1260668948 Manual Peak Response = 1249291206 M4
M4 = Poor automated baseline construction.

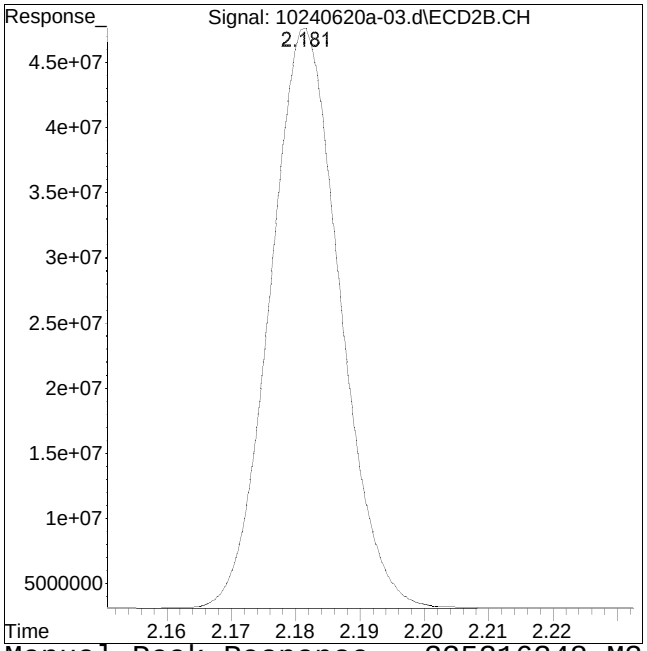
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #41: Hexachlorobenzene #2





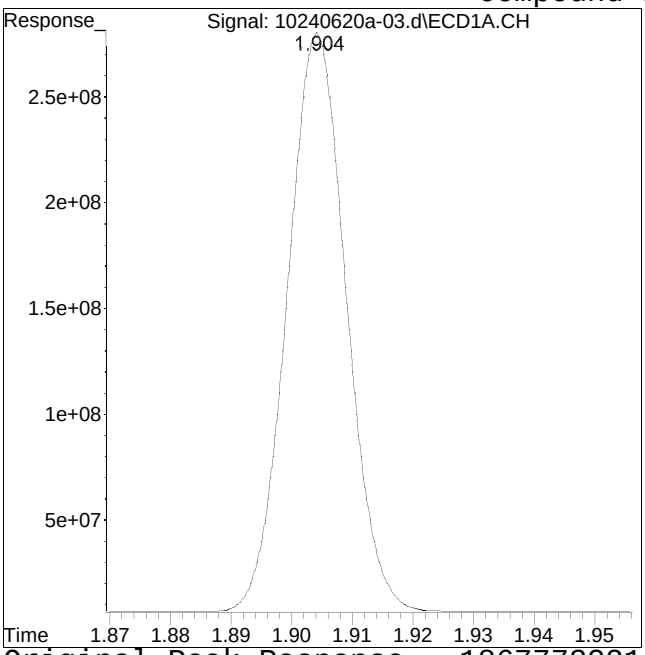
Original Peak Response = 335705696 Manual Peak Response = 335316348 M3

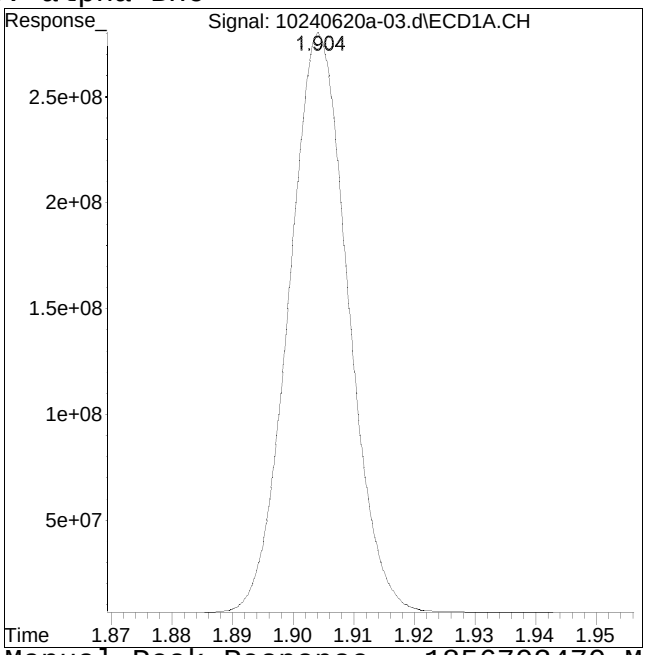
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #4: alpha-BHC



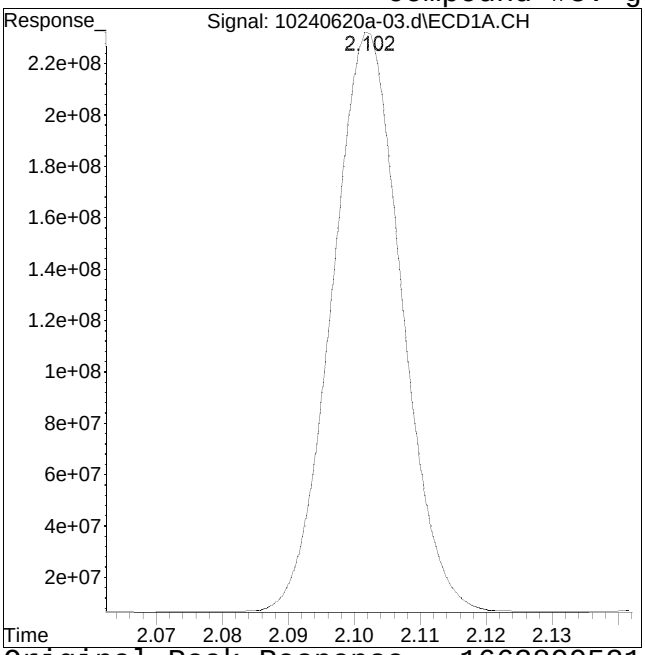


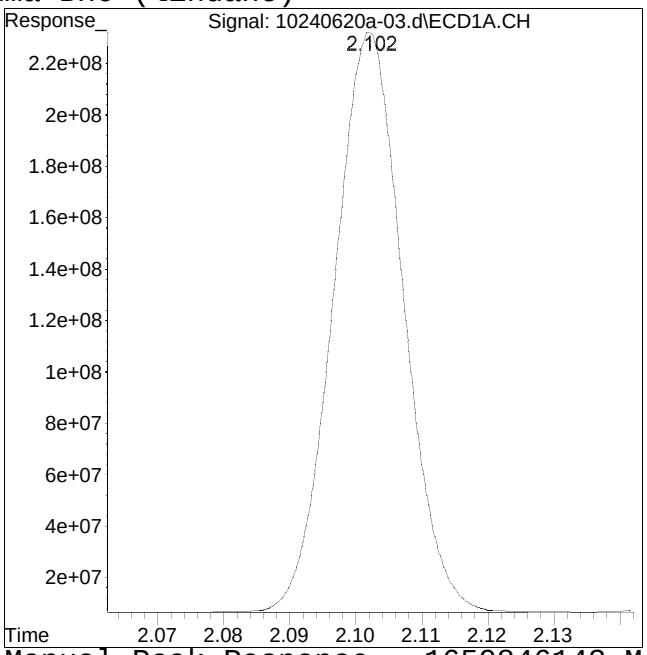
Original Peak Response = 1867773221 Manual Peak Response = 1856703470 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #5: gamma-BHC (lindane)





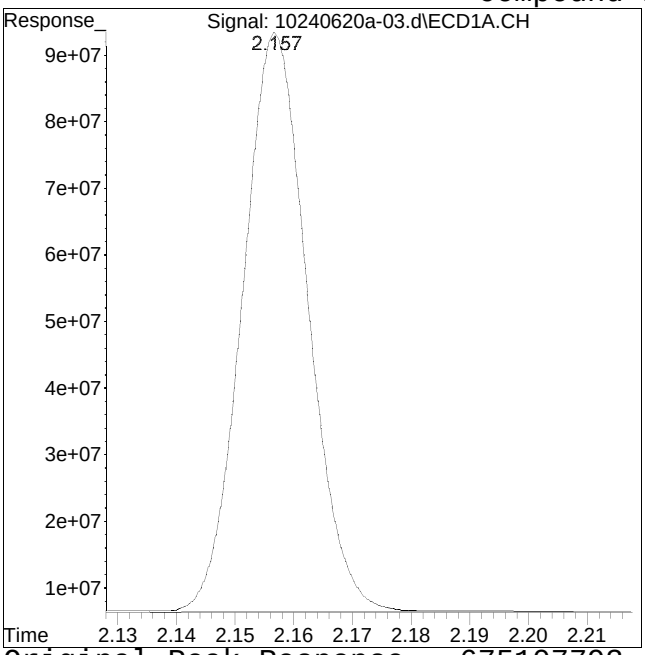
Original Peak Response = 1663899521 Manual Peak Response = 1659846143 M4
M4 = Poor automated baseline construction.

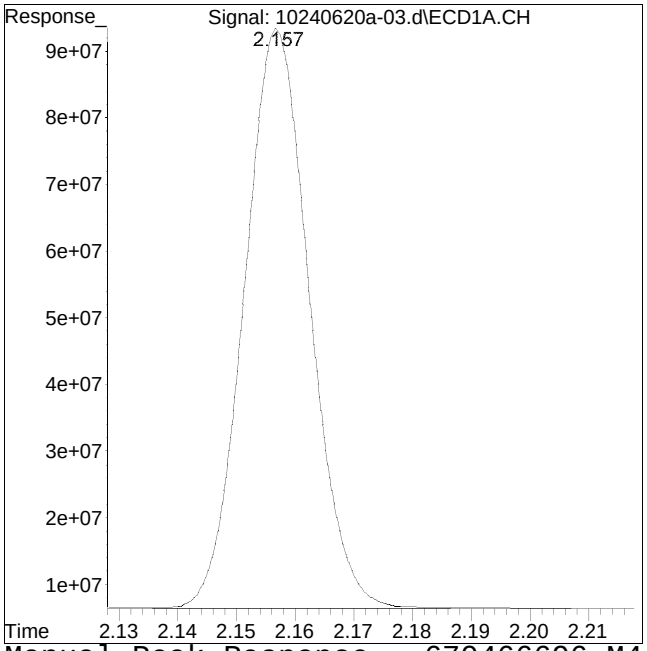
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #6: beta-BHC



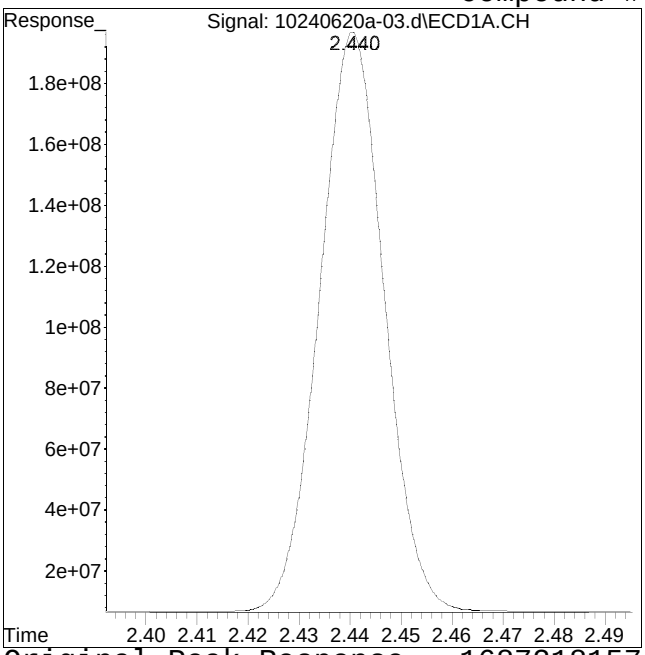


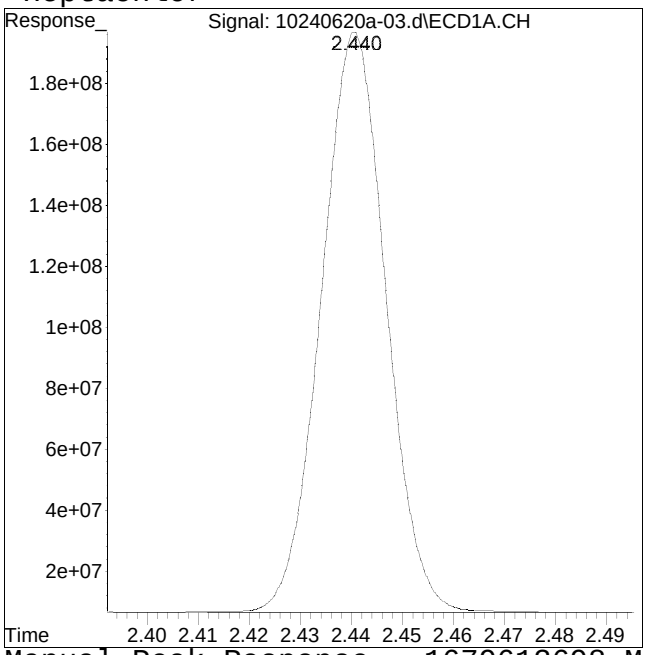
Original Peak Response = 675107793 Manual Peak Response = 670466696 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #8: Heptachlor



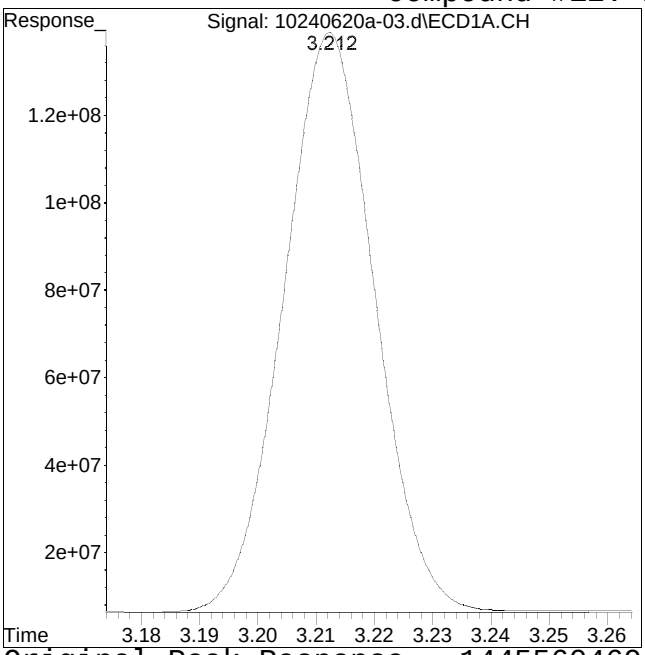


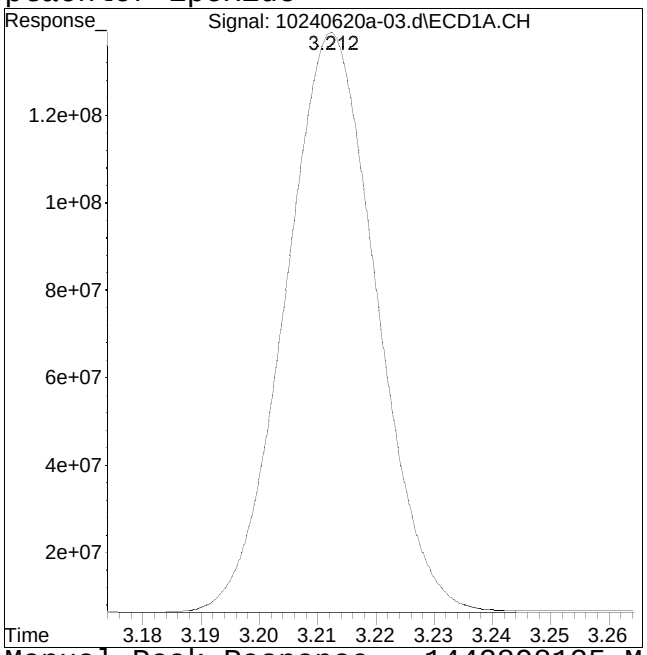
Original Peak Response = 1687218157 Manual Peak Response = 1679613698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #12: Heptachlor Epoxide





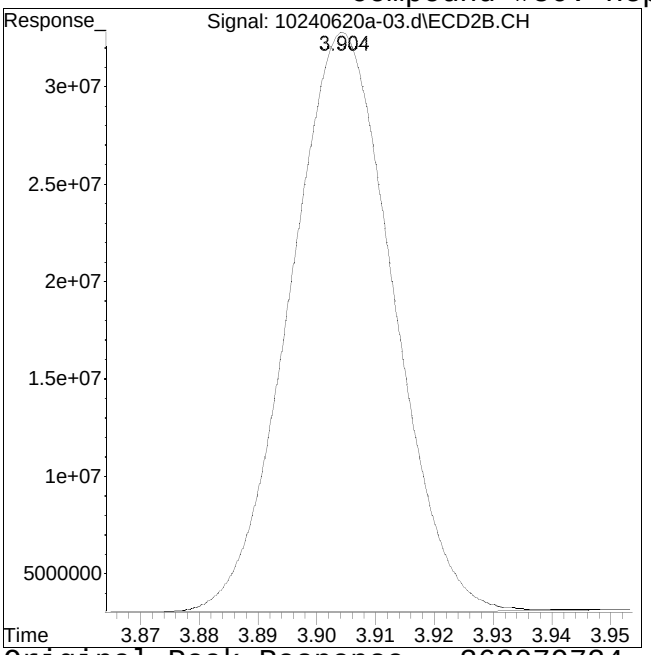
Original Peak Response = 1445560469 Manual Peak Response = 1442898125 M4
M4 = Poor automated baseline construction.

Manual Integration Report

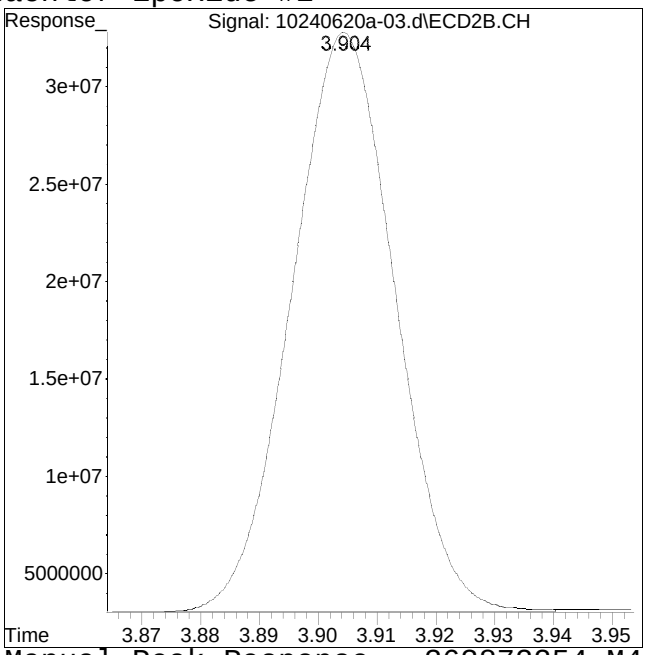
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 363079724



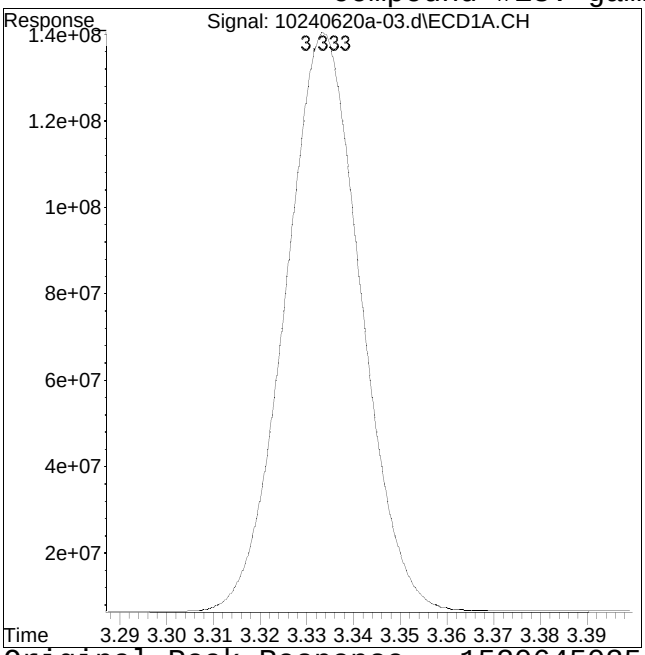
Manual Peak Response = 363872254 M4

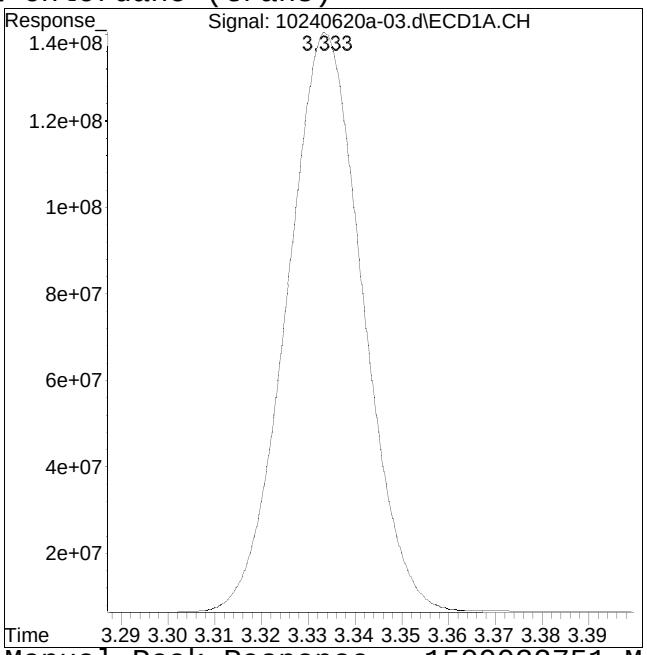
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #13: gamma-Chlordane (trans)



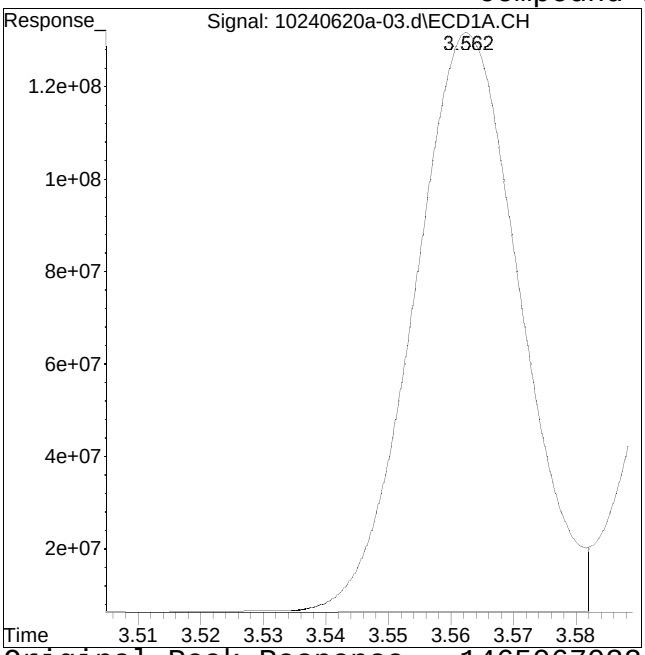


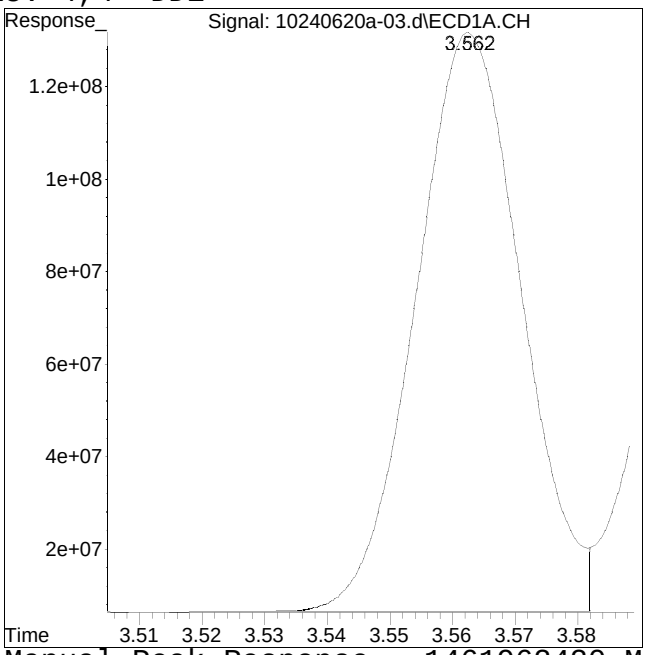
Original Peak Response = 1520645035 Manual Peak Response = 1509032751 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #15: 4,4'-DDE



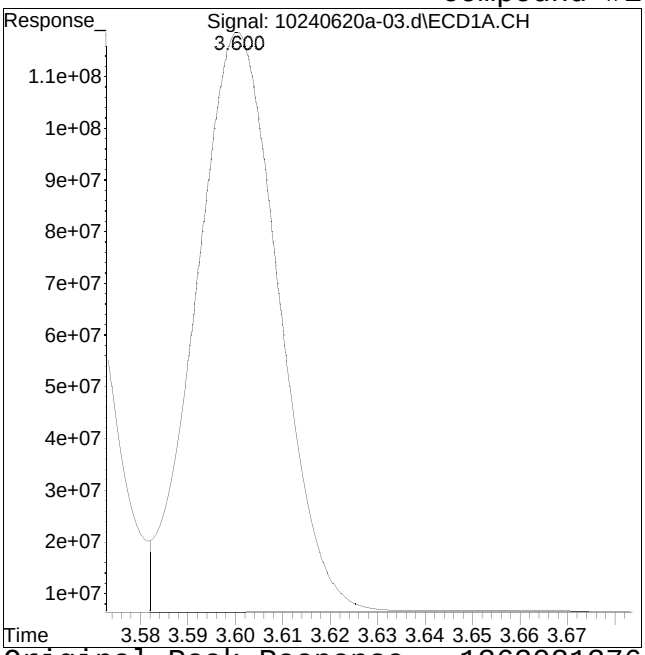


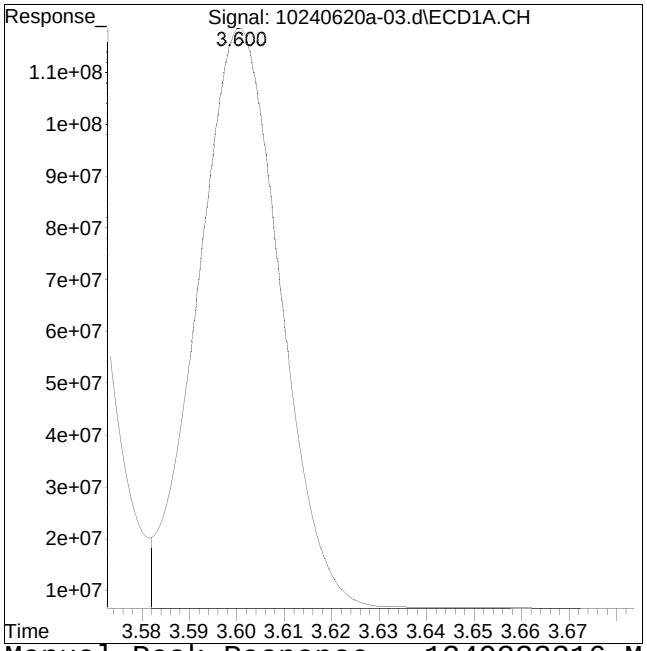
Original Peak Response = 1465067032 Manual Peak Response = 1461962420 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #16: Endosulfan I





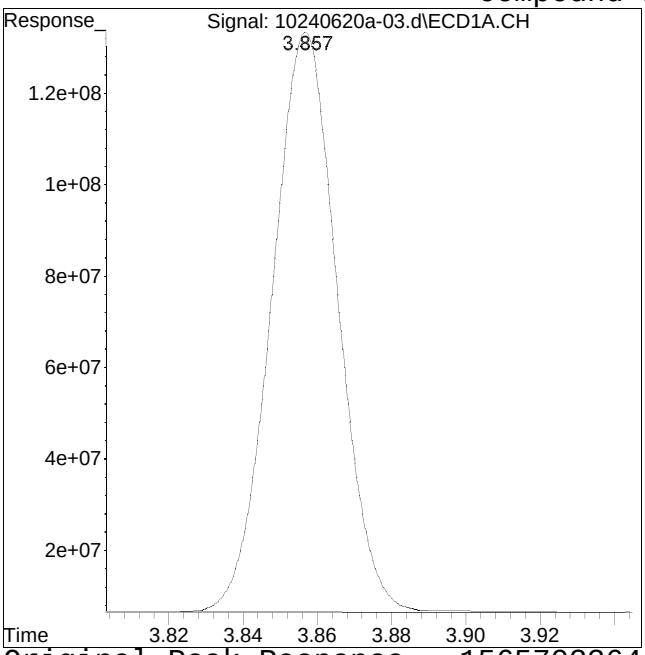
Original Peak Response = 1363021376 Manual Peak Response = 1349333316 M4
M4 = Poor automated baseline construction.

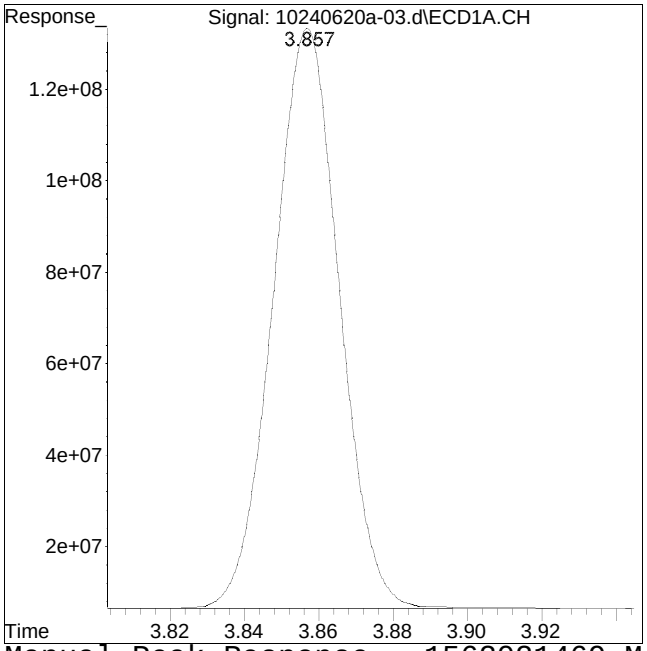
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #17: Dieldrin





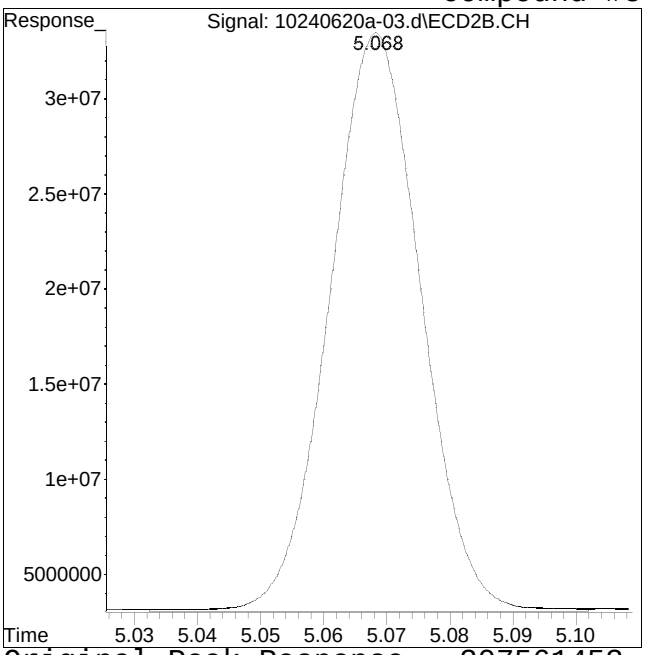
Original Peak Response = 1565703364 Manual Peak Response = 1562021469 M4
M4 = Poor automated baseline construction.

Manual Integration Report

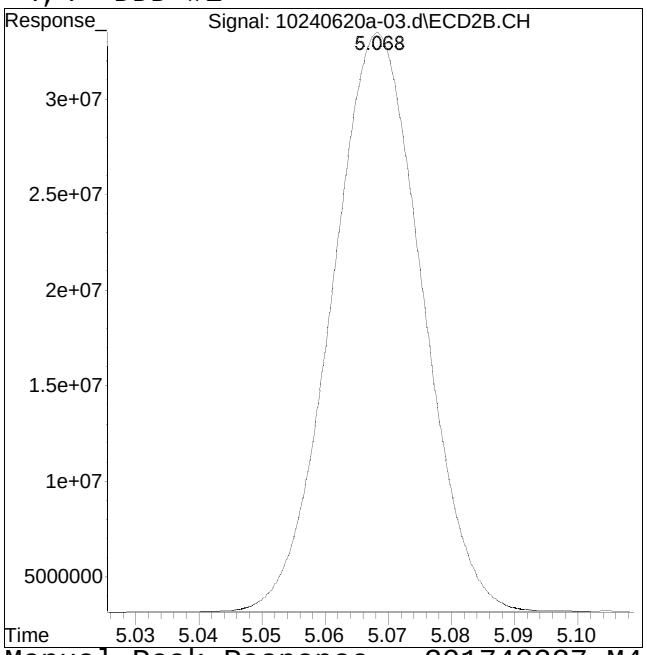
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 307561453



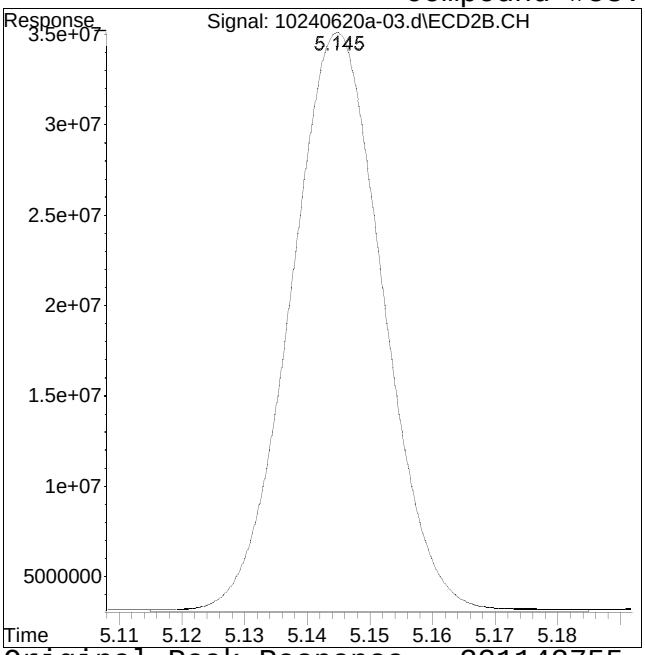
Manual Peak Response = 301742227 M4

M4 = Poor automated baseline construction.

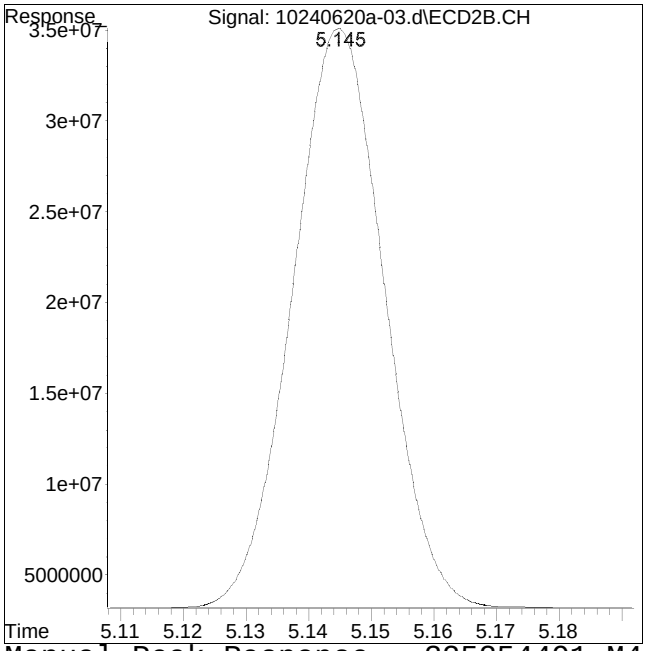
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #58: Endosulfan II #2



Original Peak Response = 331142755



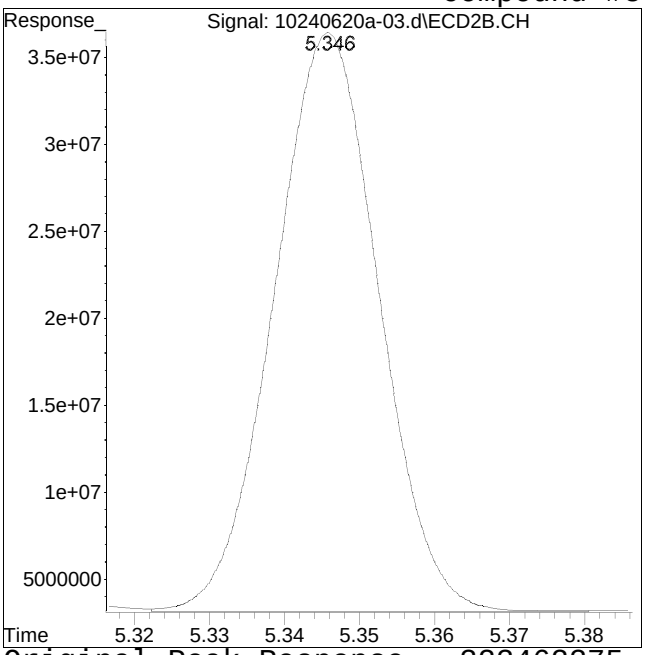
Manual Peak Response = 325254491 M4

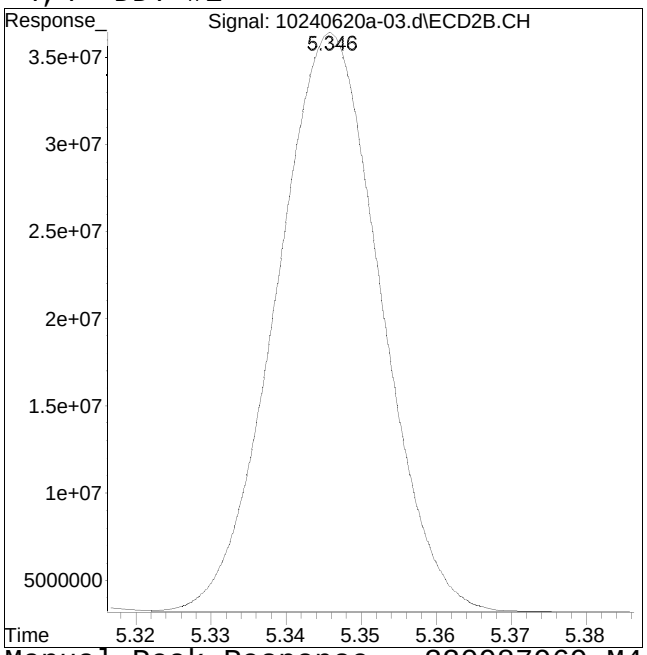
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #59: 4,4'-DDT #2



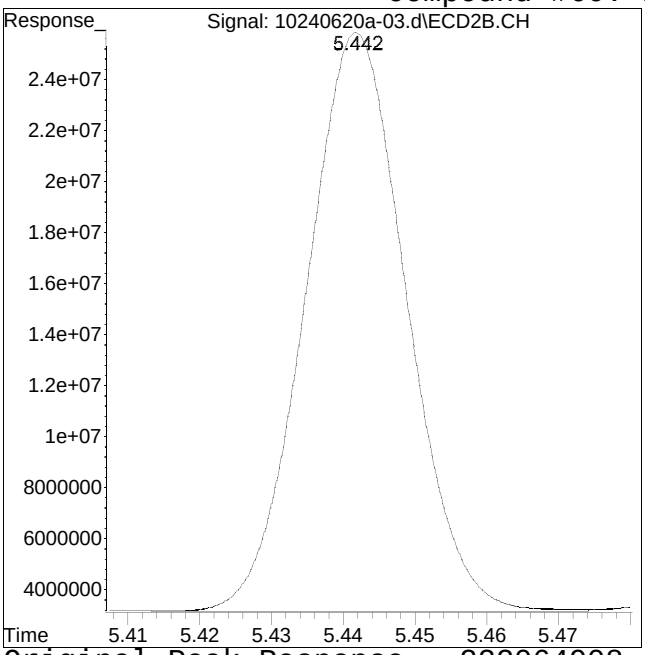


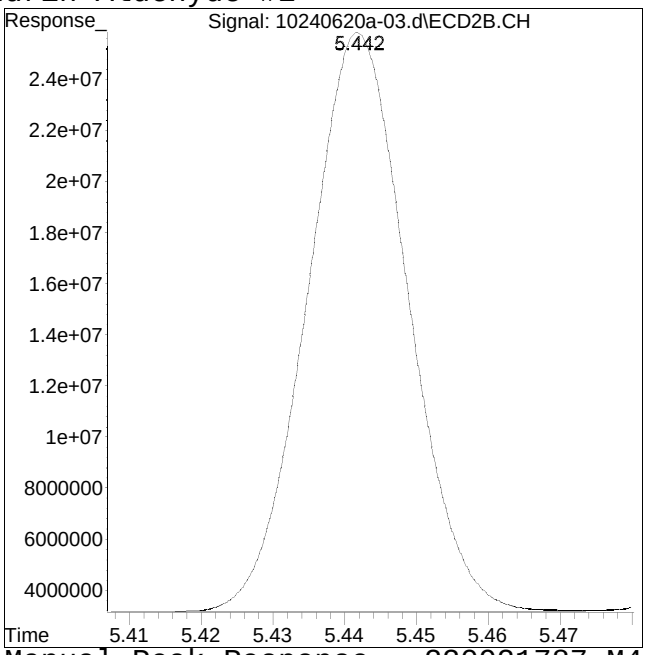
Original Peak Response = 323462375 Manual Peak Response = 320987969 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #60: Endrin Aldehyde #2



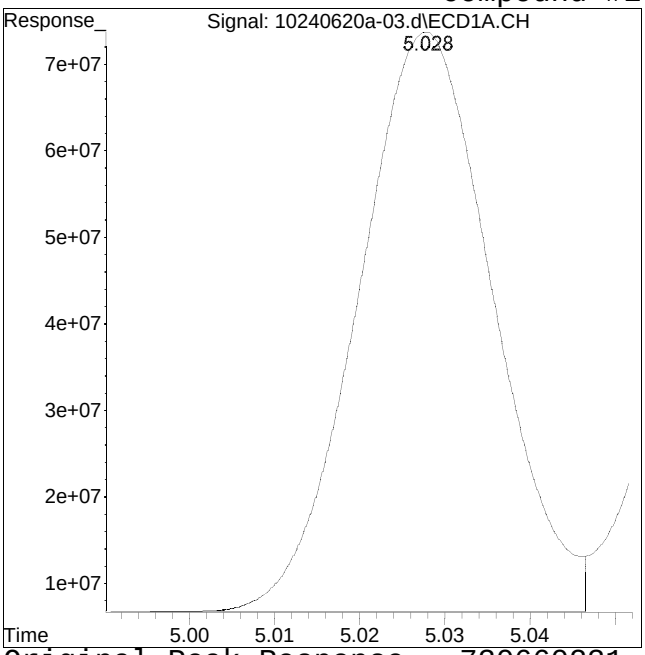


Original Peak Response = 222064908 Manual Peak Response = 220921787 M4
M4 = Poor automated baseline construction.

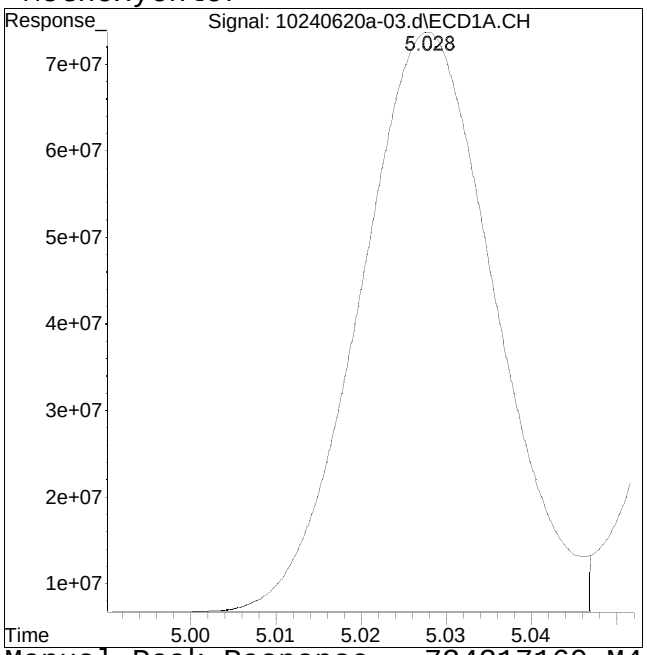
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #23: Methoxychlor



Original Peak Response = 730660231



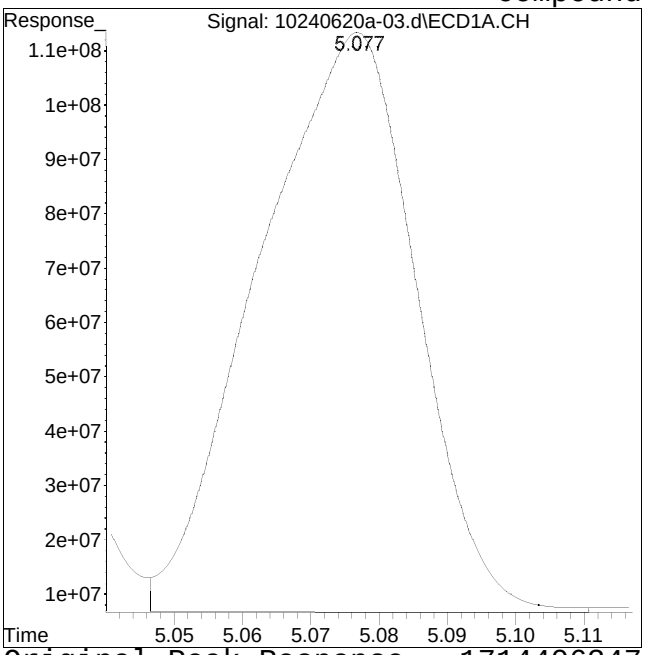
Manual Peak Response = 734317160 M4

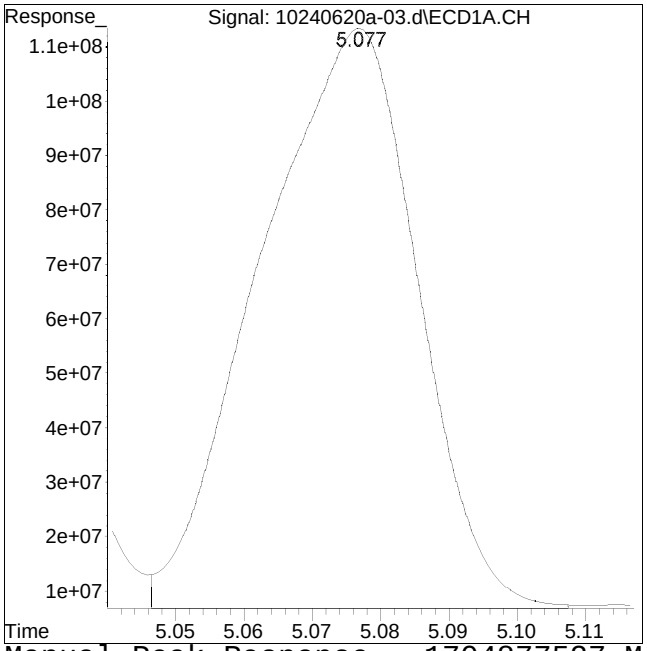
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #24: Mirex





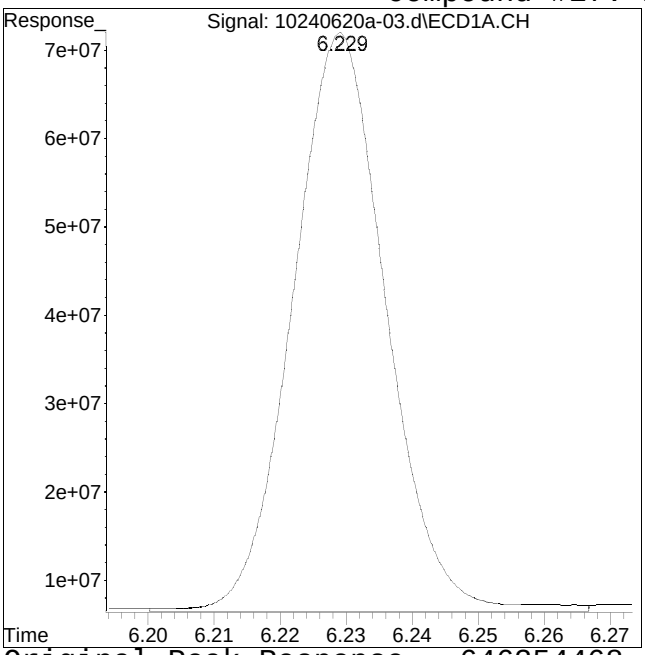
Original Peak Response = 1714406347 Manual Peak Response = 1704877527 M4
M4 = Poor automated baseline construction.

Manual Integration Report

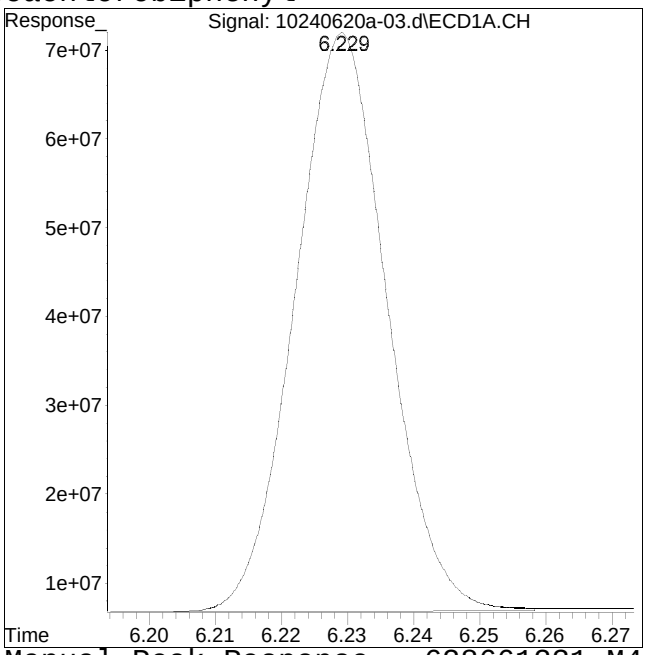
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-03.d
Date Inj'd : 6/20/2024 6:42
Sample : wg1936891-1,42,,pest11595

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:03 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 646354468



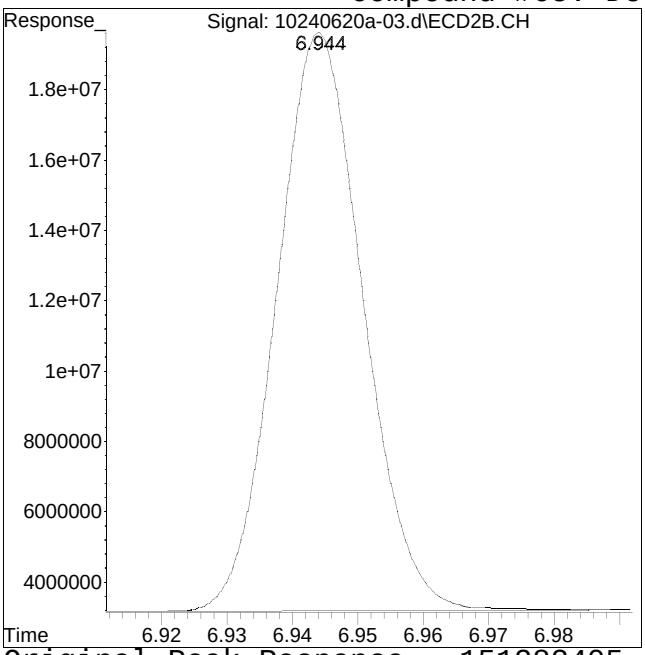
Manual Peak Response = 628661231 M4

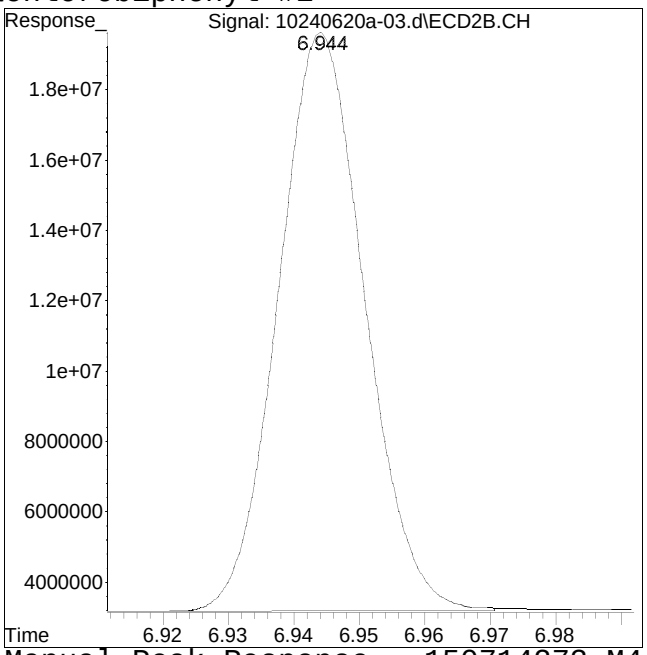
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-03.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:42 Instrument : Pest 10
Sample : wg1936891-1,42,,pest11595 Quant Date : 6/20/2024 7:03 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 151282405 Manual Peak Response = 150714273 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:53
Operator : PEST10:peg
Sample   : wg1936891-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:21:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:21:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	129	0.00
29	l1	chlordane-1		*1000.000	1067.318	-6.7	135	0.00
30	l1	chlordane-3		*1000.000	839.819	16.0	106	0.00
31	l1	chlordane-4		*1000.000	1090.003	-9.0	132	0.00
32	l1	chlordane-5		*1000.000	1080.132	-8.0	136	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	95	0.00
29	l1	chlordane-1		*1000.000	1077.221	-7.7	98	0.00
30	l1	chlordane-3		*1000.000	1060.947	-6.1	97	0.00
31	l1	chlordane-4		*1000.000	1033.549	-3.4	95	0.00
32	l1	chlordane-5		*1000.000	1003.374	-0.3	93	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.60#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.81#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.90#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.10#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.16#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.28#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.44#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.68#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.80#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.89#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.21#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.33#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:53
Operator : PEST10:peg
Sample   : wg1936891-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:21:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:21:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.47#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.56#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.60#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.86#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.11#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.23#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.36#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.53#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.79#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.03#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.08#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.19#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.42#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.23#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-4.35#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.48#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-4.90#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.09#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.38#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.28#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.57#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.63#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.90#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   6:53
Operator : PEST10:peg
Sample   : wg1936891-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:21:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:21:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-2.97#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.29#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.17#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.52#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-3.90#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.13#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.30#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.49#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.36#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.65#
18	t	Endrin		1.086	0.000	100.0#	0#	-4.95#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.07#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.14#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.35#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.44#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.91#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.05#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.67#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.08#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.94#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.38#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.10#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.13#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.45#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.86#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:53
Operator : PEST10:peg
Sample : wg1936891-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:21:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:21:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.262	1.377	485.7E6	136.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:53
Operator : PEST10:peg
Sample : wg1936891-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:21:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:21:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.380	2.830	744.9E6	188.9E6	1067.318	1077.221	
30) l1	chlordane-3	2.441	3.439	1182.0E6	216.5E6	839.819	1060.947	
31) l1	chlordane-4	2.790	4.126	870.1E6	741.6E6	1090.003	1033.549	
32) l1	chlordane-5	3.335	4.297	3291.5E6	564.5E6	1080.132	1003.374	
Sum	chlordane-1			6088.6E6	1711.5E6	N.D.	N.D.	D
Average	chlordane-1					1019.318	1043.772	
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

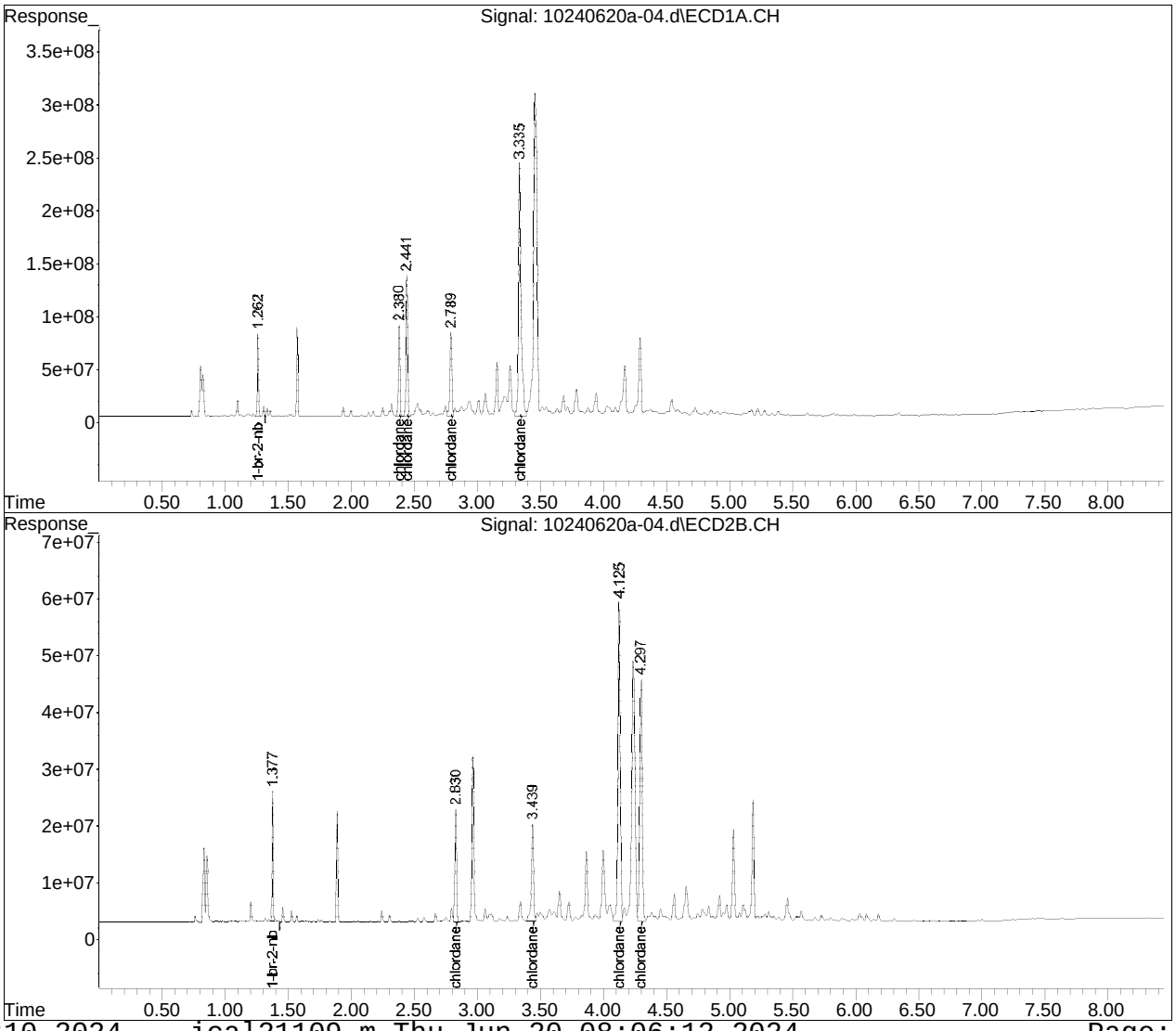
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:53
Operator : PEST10:peg
Sample : wg1936891-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:21:58 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:21:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

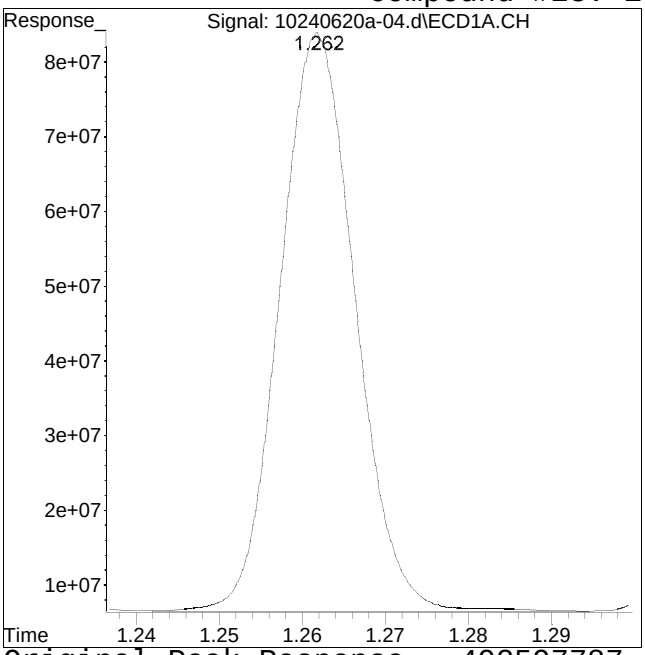
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

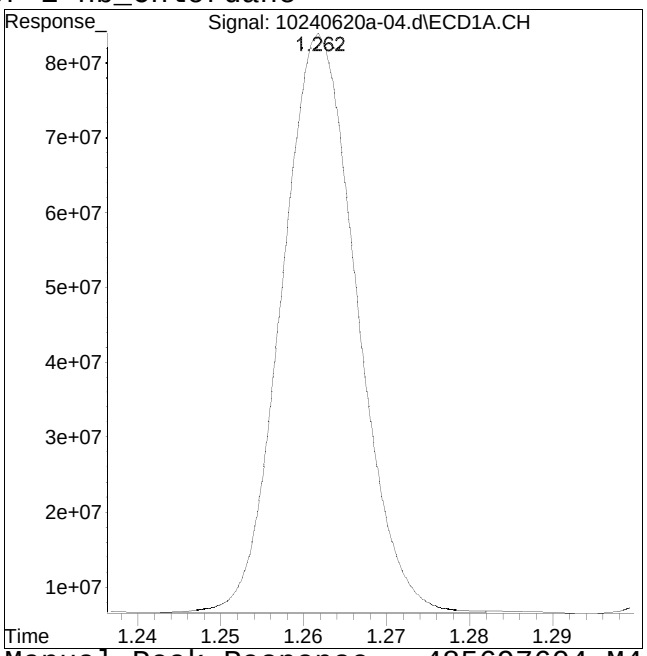


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-04.d
Date Inj'd : 6/20/2024 6:53
Sample : wg1936891-2,42,,chlor11612
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:21 am

Compound #28: 1-br-2-nb_Chlordane



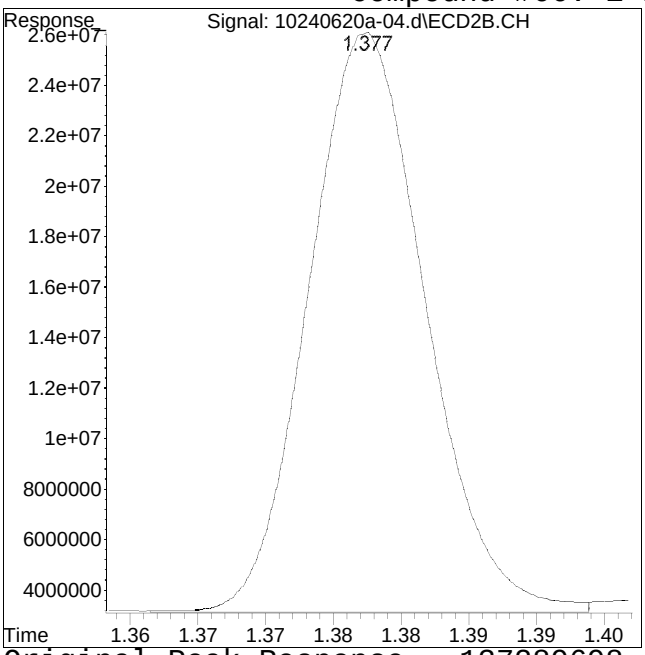


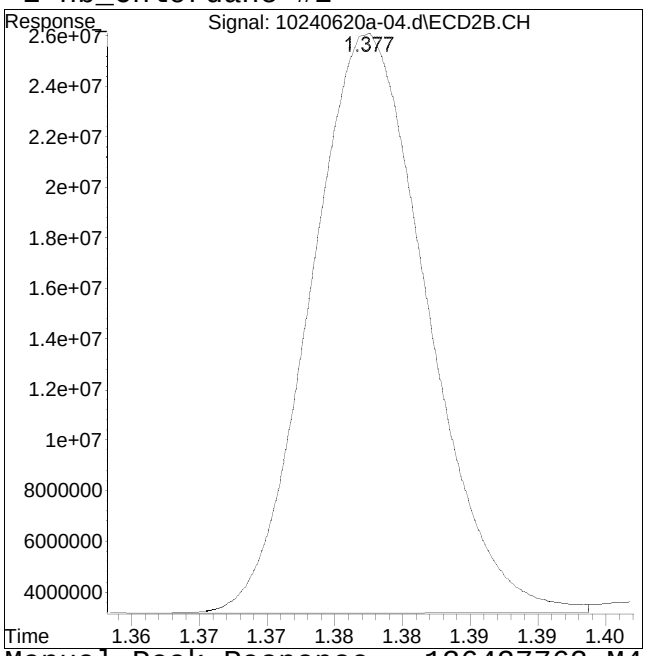
Original Peak Response = 492597787 Manual Peak Response = 485697604 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-04.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:53 Instrument : Pest 10
Sample : wg1936891-2,42,,chlor11612Quant Date : 6/20/2024 7:21 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 137289698 Manual Peak Response = 136427762 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   7:04
Operator : PEST10:peg
Sample   : wg1936891-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:23:36 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:29 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	143	0.00
34	l2	toxaphene-1		*2000.000	2079.818	-4.0	150	0.00
35	l2	toxaphene-2		*2000.000	2025.530	-1.3	146	0.00
36	l2	toxaphene-4		*2000.000	2253.103	-12.7	162	0.00
37	l2	toxaphene-5		*2000.000	2105.662	-5.3	152	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	108	0.00
34	l2	toxaphene-1		*2000.000	2142.475	-7.1	117	0.00
35	l2	toxaphene-2		*2000.000	2120.482	-6.0	117	0.00
36	l2	toxaphene-4		*2000.000	1977.110	1.1	110	0.00
37	l2	toxaphene-5		*2000.000	2093.891	-4.7	116	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.60#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.81#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.90#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.10#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.16#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.28#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.44#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.68#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.80#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.89#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.21#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.33#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   7:04
Operator : PEST10:peg
Sample   : wg1936891-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:23:36 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:29 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.47#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.56#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.60#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.86#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.11#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.23#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.36#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.53#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.79#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.03#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.08#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.19#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.42#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.23#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.38#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.44#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-2.79#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.34#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.38#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.28#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.57#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.63#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.90#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 20 Jun 2024   7:04
Operator : PEST10:peg
Sample   : wg1936891-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1936891,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:23:36 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:29 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-2.97#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.29#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.17#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.52#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-3.90#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.13#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.30#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.49#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.36#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.65#
18	t	Endrin		1.086	0.000	100.0#	0#	-4.95#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.07#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.14#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.35#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.44#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.91#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.05#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.67#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.08#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.94#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.38#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.83#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.44#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.13#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.30#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 7:04
Operator : PEST10:peg
Sample : wg1936891-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:23:36 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.262	1.378	546.7E6	143.7E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 7:04
Operator : PEST10:peg
Sample : wg1936891-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:23:36 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.351	5.105	1787.2E6	248.9E6	2079.818	2142.475
35) l2	toxaphene-2	4.478	5.134	1640.2E6	368.4E6	2025.530	2120.482
36) l2	toxaphene-4	4.904	5.450	1585.0E6	411.7E6	2253.103	1977.110
37) l2	toxaphene-5	5.092	5.859	1733.9E6	399.1E6	2105.662	2093.891
Sum	toxaphene-1			6746.3E6	1428.1E6	8464.114	8333.958
Average	toxaphene-1					2116.028	2083.490

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			6746.3E6	1428.1E6	8464.114	8333.958
Average	toxaphene-1					2116.028	2083.490

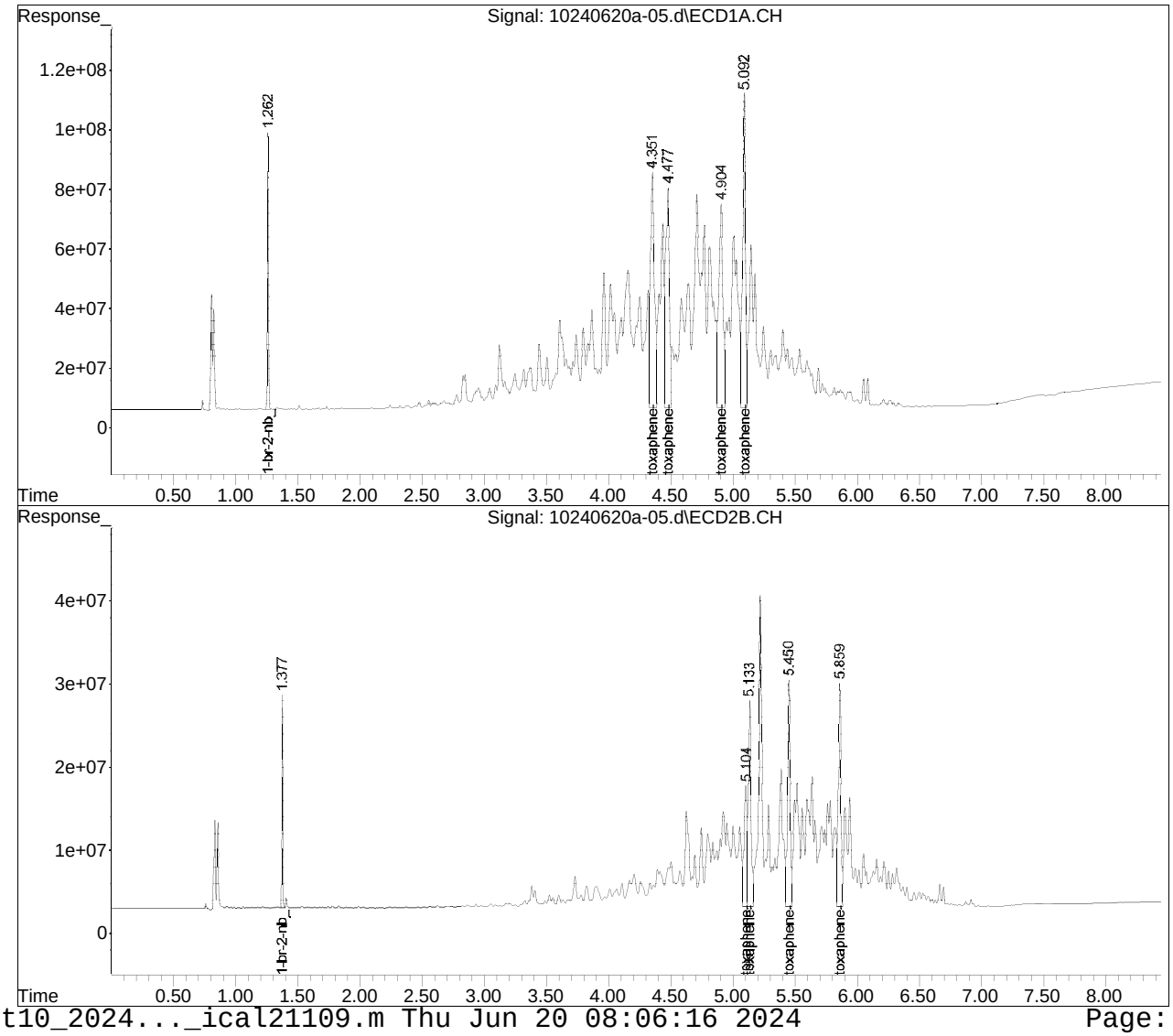
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 7:04
Operator : PEST10:peg
Sample : wg1936891-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:23:36 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

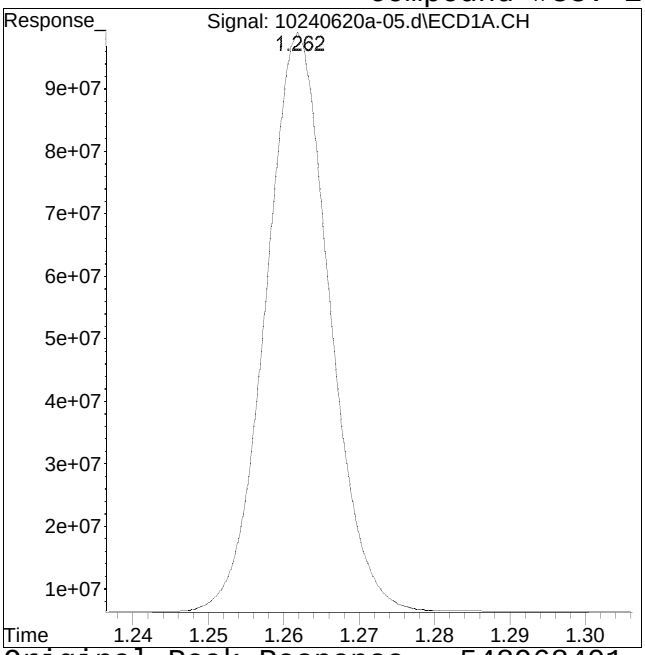
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



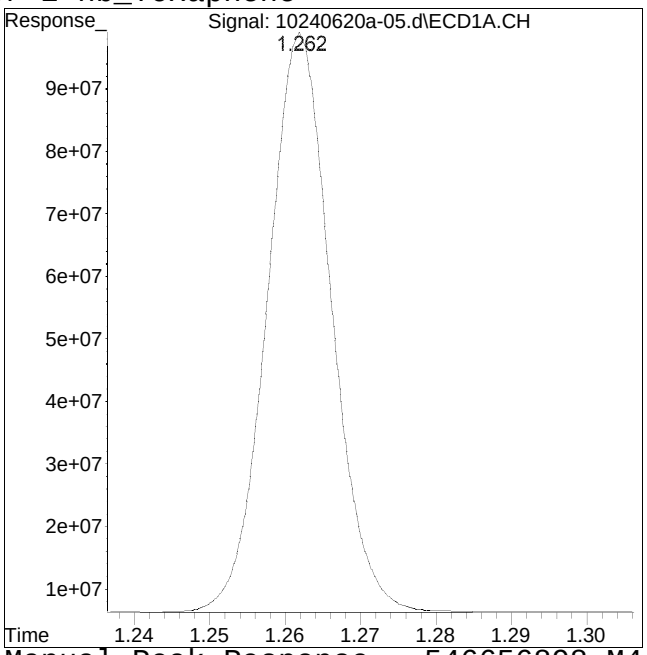
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-05.d
Date Inj'd : 6/20/2024 7:04
Sample : wg1936891-3,42,,tox11615
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:23 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 548968401



Manual Peak Response = 546656898 M4

M4 = Poor automated baseline construction.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST10	**Analysis Date**	: 06/20/24 06:31
PEM Standard	: R1843371-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	3324510.44797	676562.00399
Endrin	1668538996.8368	390241248.86162
4,4'-DDD	3404666.82191	1125963.93037
4,4'-DDT	2972247348.9418	721048281.01518
Endrin Aldehyde	0	251940.39452
Endrin Ketone	3377630.1376	935171.89079

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.202	0.303
DDT	0.226	0.249

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:31
Operator : PEST10:peg
Sample : pem10240620a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:25:27 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.262	1.377	490.3E6	141.5E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.565	4.494	3324510	676562	0.141M4	0.114
18) t	Endrin	4.109	4.947	1668.5E6	390.2E6	69.023M4	63.458
19) t	4,4'-DDD	4.226	5.068	3404667	1125964	0.178M4	0.235M4
21) t	4,4'-DDT	4.527	5.346	2972.2E6	721.0E6	140.171M4	132.719
22) t	Endrin Aldeh	0.000	5.443	0	251940	N.D. d	0.198M4
26) t	Endrin Keton	5.416	6.083	3377630	935172	0.149M4	0.160M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:31
Operator : PEST10:peg
Sample : pem10240620a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:25:27 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

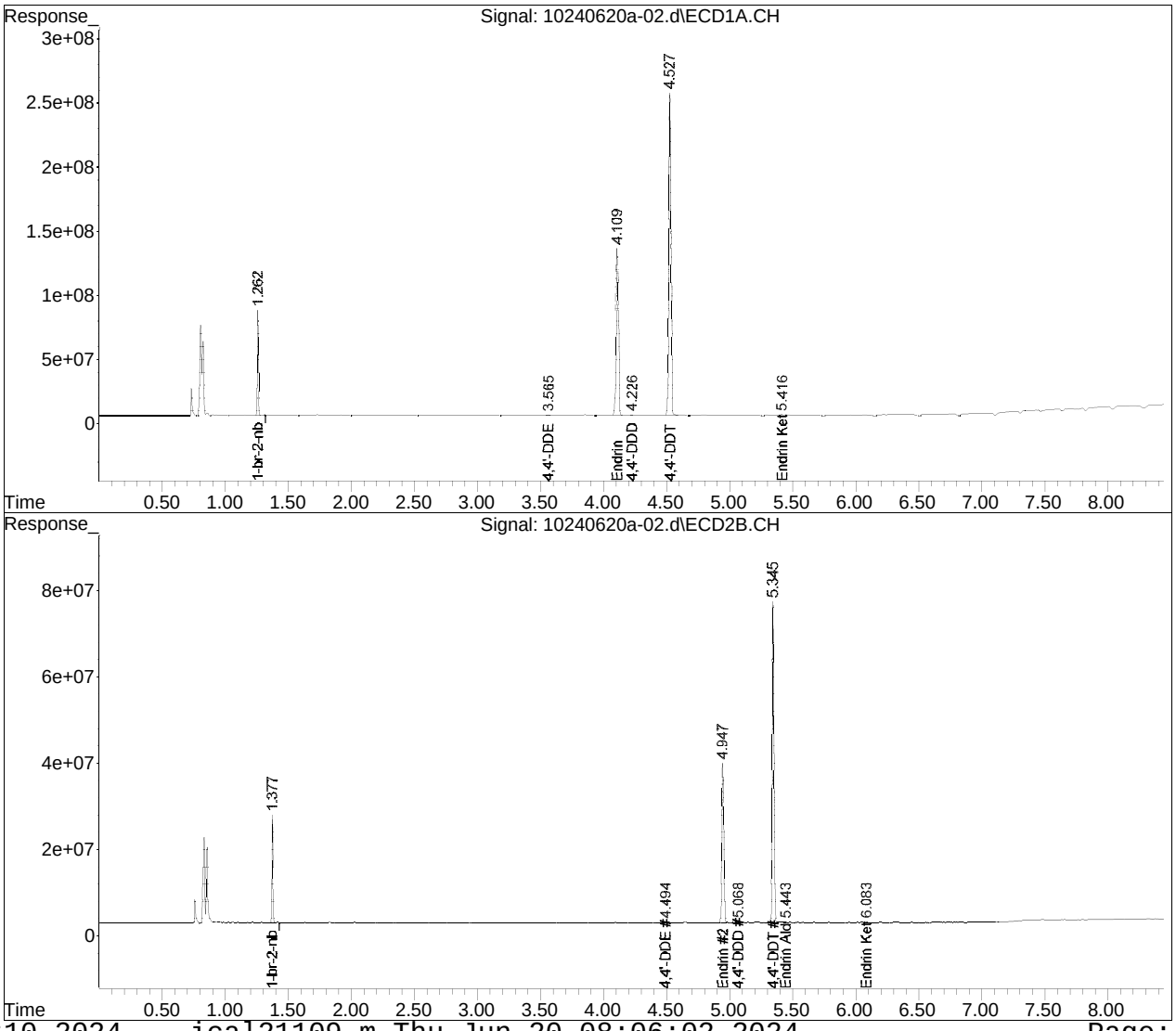
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 6:31
Operator : PEST10:peg
Sample : pem10240620a-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1936891,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 07:25:27 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

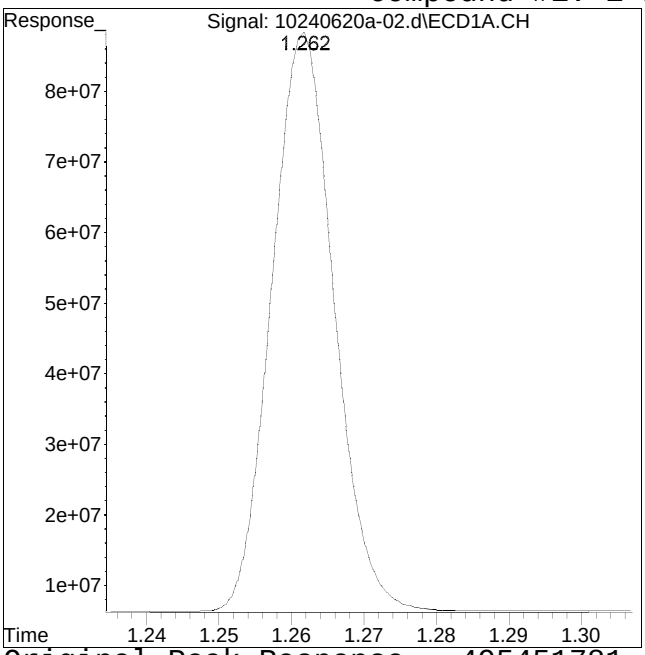


Manual Integration Report

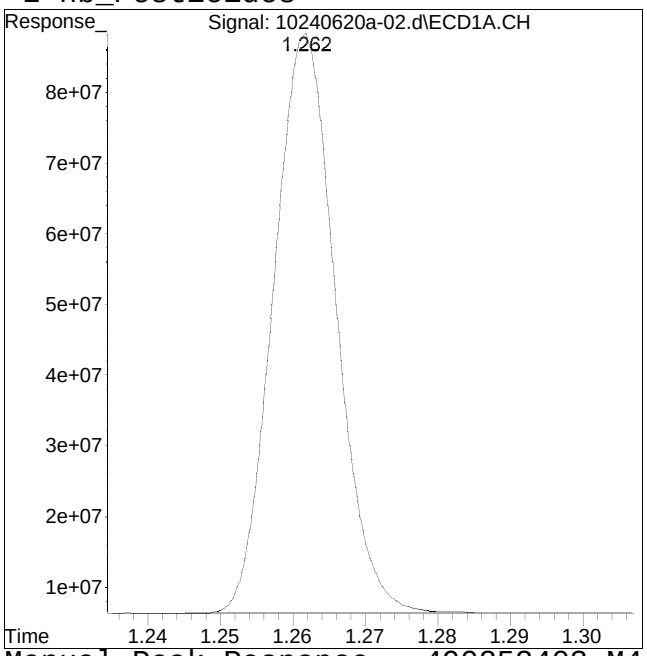
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-02.d
Date Inj'd : 6/20/2024 6:31
Sample : pem10240620a-01,42,,deg115

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:25 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 495451781



Manual Peak Response = 490253403 M4

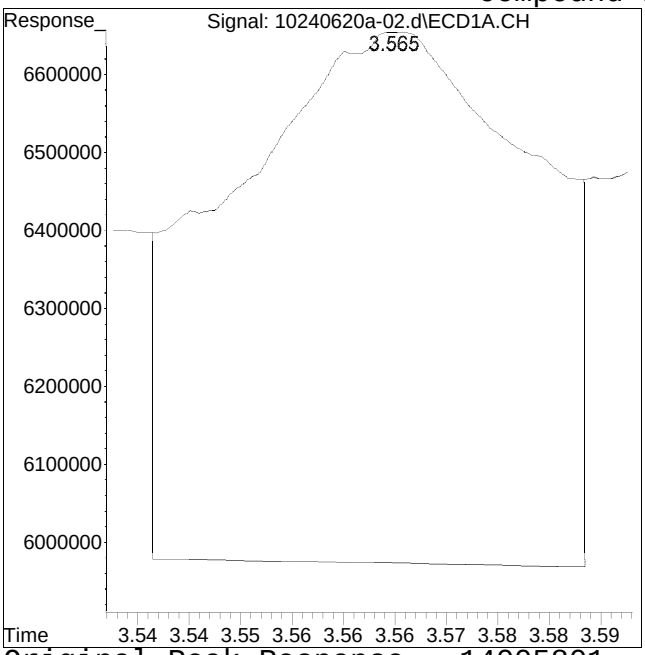
M4 = Poor automated baseline construction.

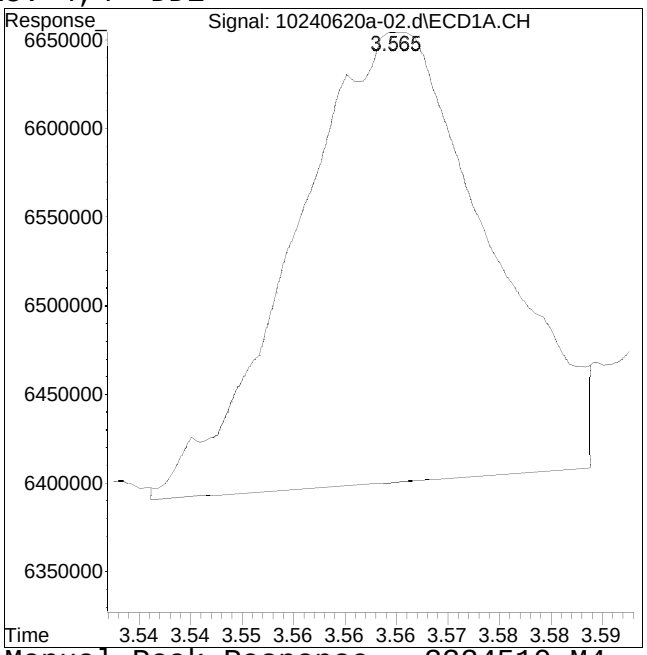
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-02.d
Date Inj'd : 6/20/2024 6:31
Sample : pem10240620a-01,42,,deg115

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:25 am

Compound #15: 4,4'-DDE



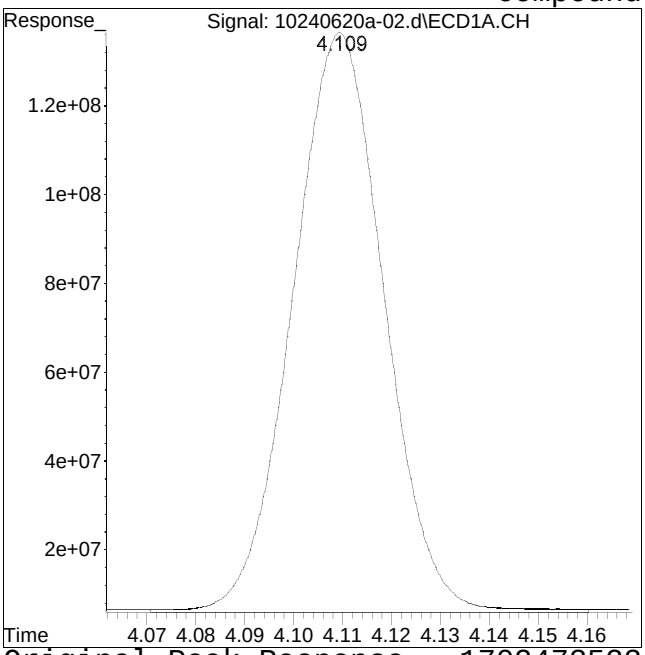


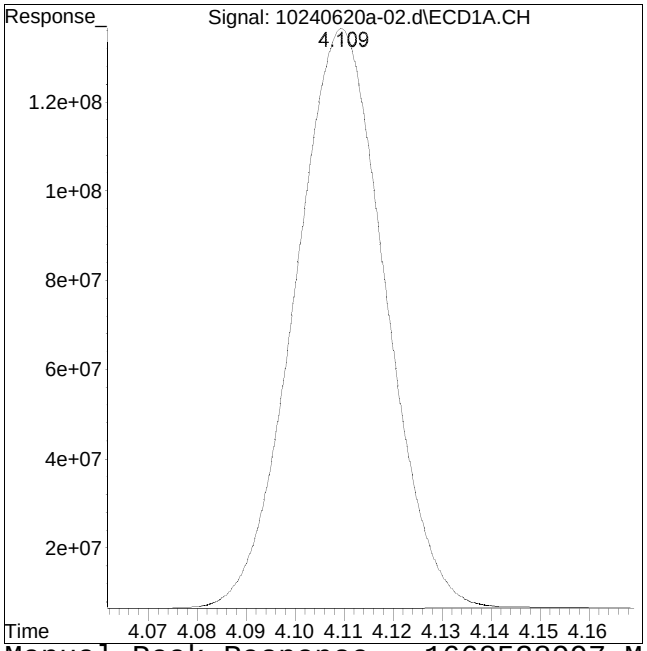
Original Peak Response = 14005801 Manual Peak Response = 3324510 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-02.d
Date Inj'd : 6/20/2024 6:31
Sample : pem10240620a-01,42,,deg115
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:25 am

Compound #18: Endrin





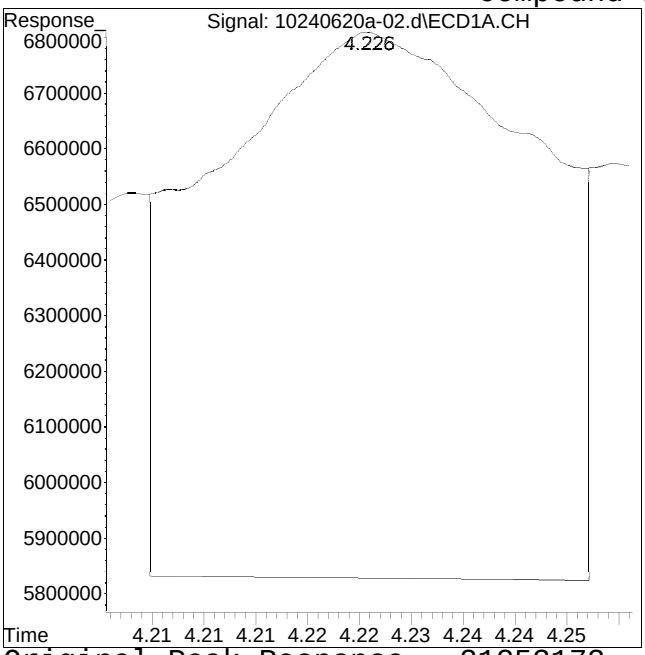
Original Peak Response = 1702473523 Manual Peak Response = 1668538997 M4
M4 = Poor automated baseline construction.

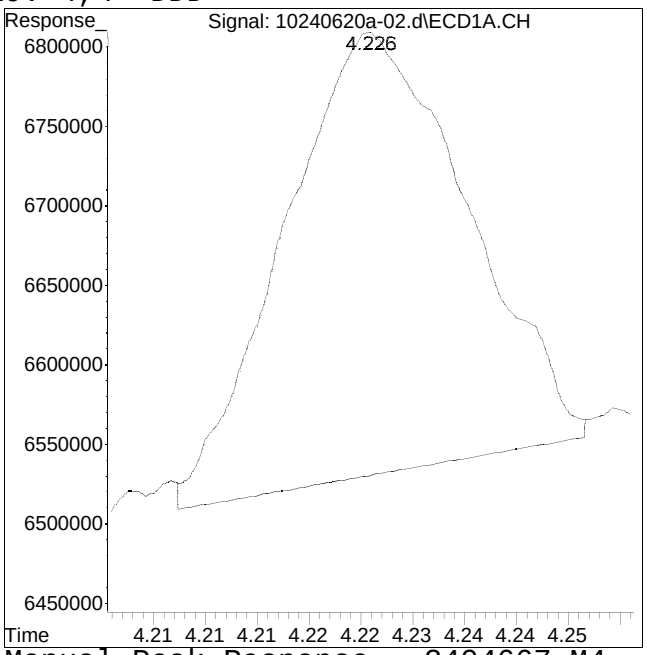
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-02.d
Date Inj'd : 6/20/2024 6:31
Sample : pem10240620a-01,42,,deg115

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:25 am

Compound #19: 4,4'-DDD





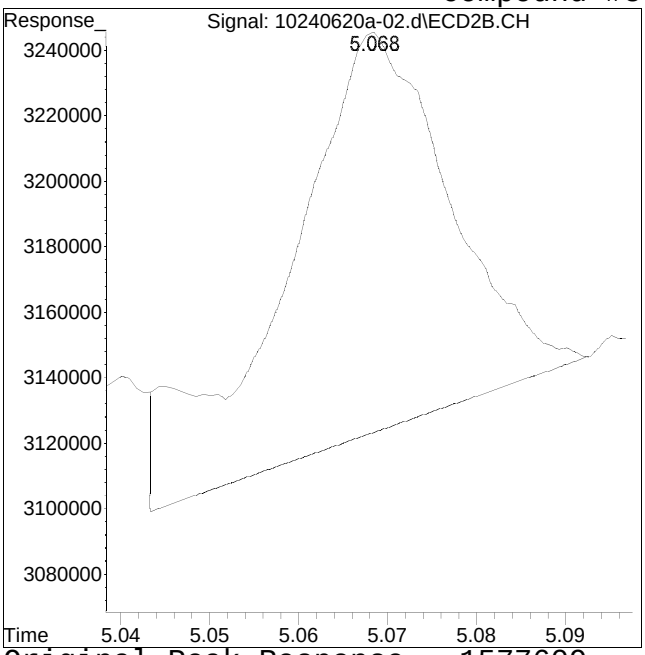
Original Peak Response = 21253172 Manual Peak Response = 3404667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

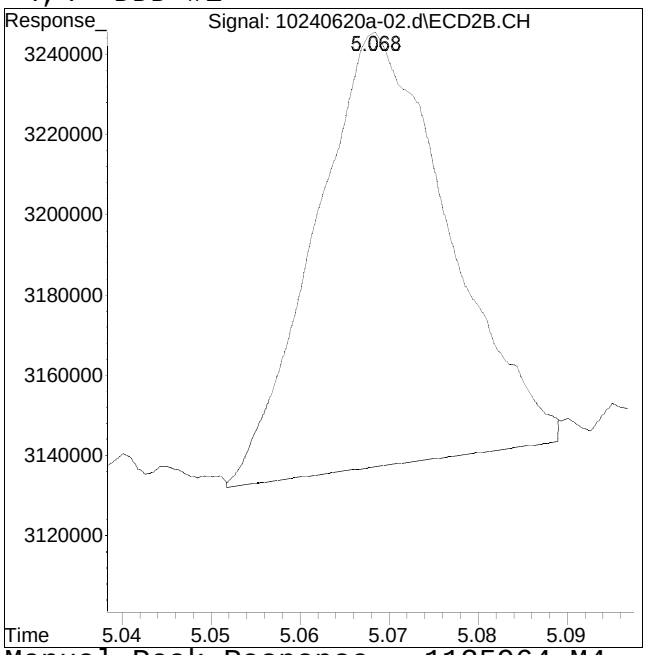
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-02.d
Date Inj'd : 6/20/2024 6:31
Sample : pem10240620a-01,42,,deg115

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:25 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 1577609



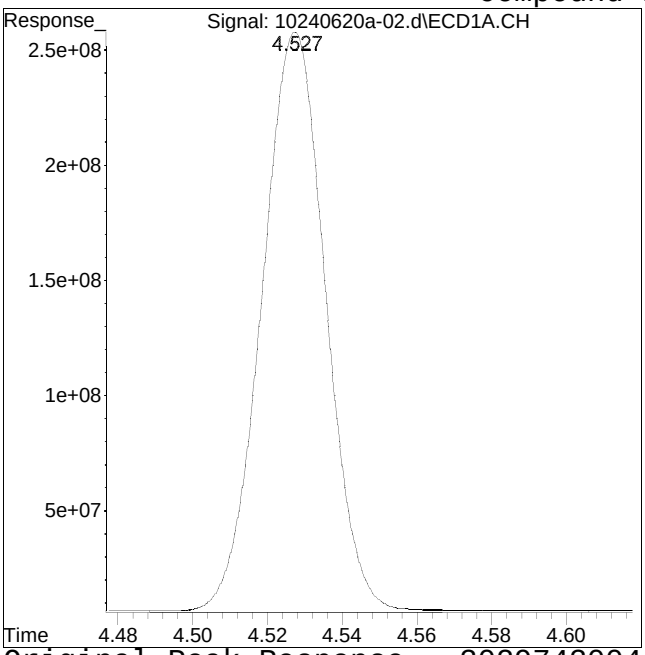
Manual Peak Response = 1125964 M4

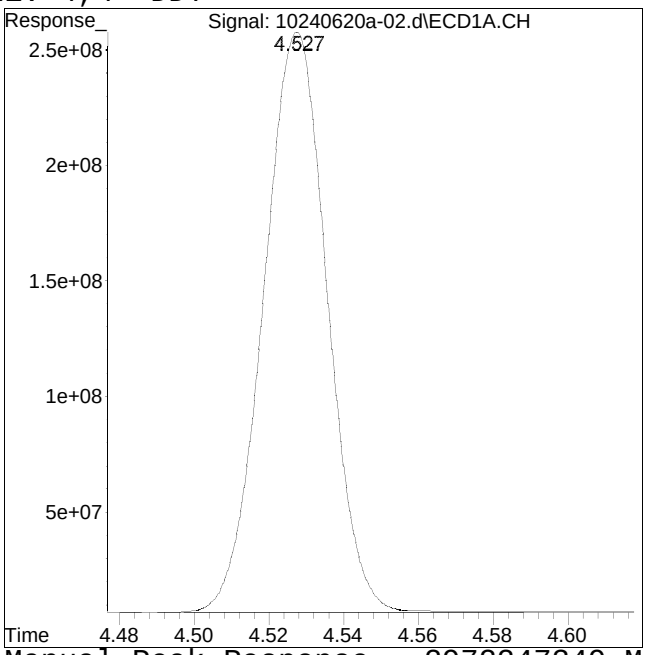
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-02.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:31 Instrument : Pest 10
Sample : pem10240620a-01,42,,deg115Quant Date : 6/20/2024 7:25 am

Compound #21: 4,4'-DDT





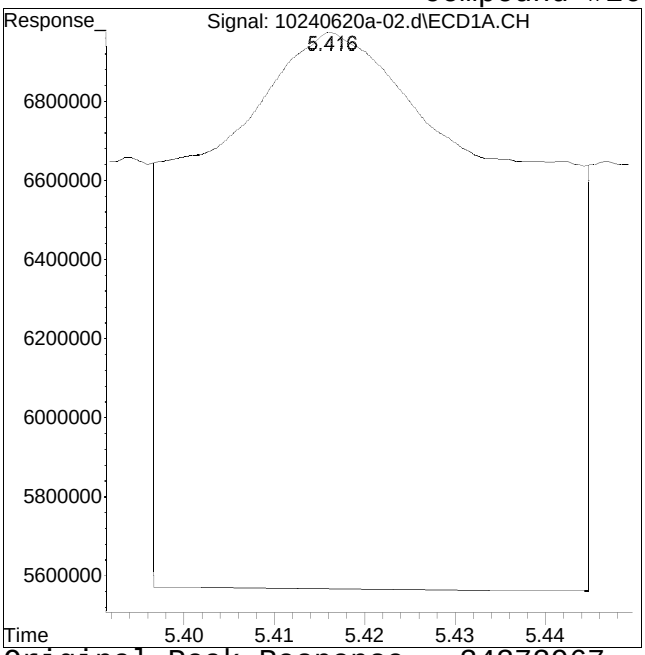
Original Peak Response = 3029743004 Manual Peak Response = 2972247349 M4
M4 = Poor automated baseline construction.

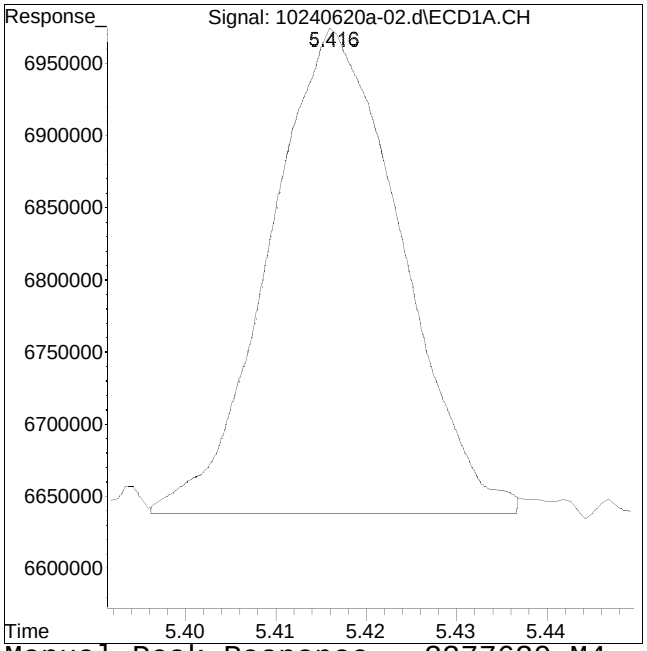
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-02.d
Date Inj'd : 6/20/2024 6:31
Sample : pem10240620a-01,42,,deg115

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/20/2024 7:25 am

Compound #26: Endrin Ketone



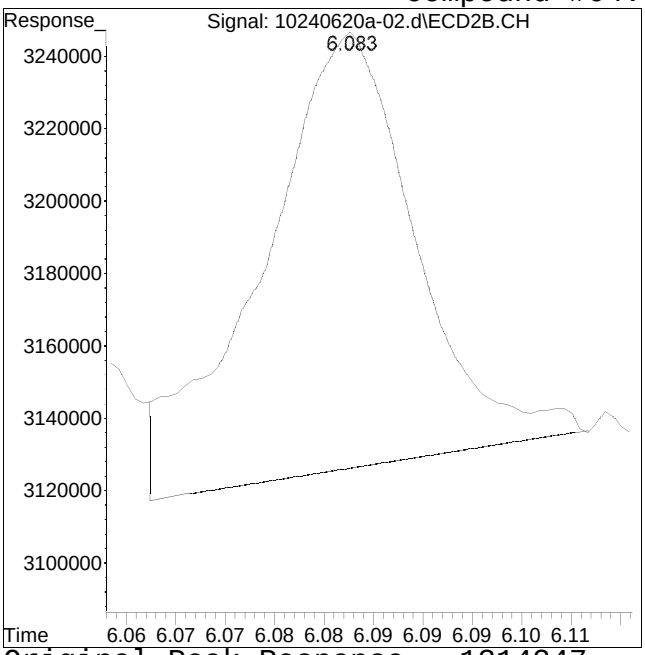


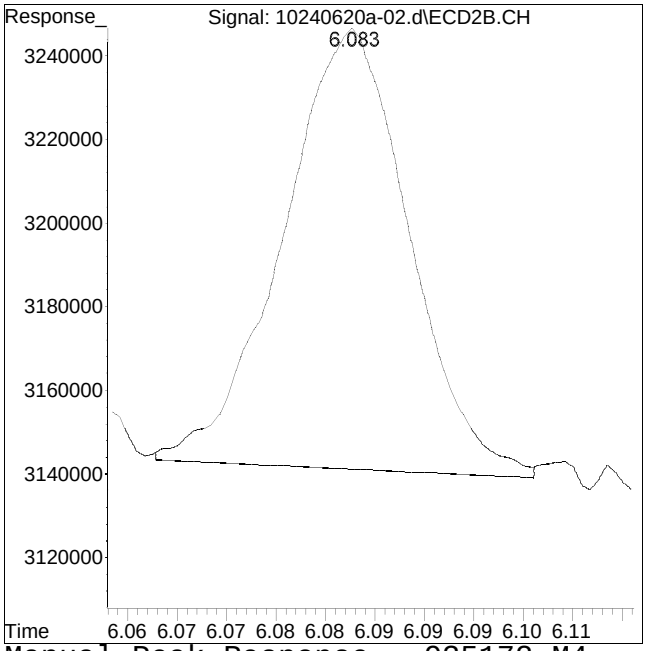
Original Peak Response = 34373967 Manual Peak Response = 3377630 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-02.d Operator : PEST10:peg
Date Inj'd : 6/20/2024 6:31 Instrument : Pest 10
Sample : pem10240620a-01,42,,deg115Quant Date : 6/20/2024 7:25 am

Compound #64: Endrin Ketone #2





Original Peak Response = 1314247 Manual Peak Response = 935172 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433375**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 7:56
Operator : PEST10:mmg
Sample : WG1936774-1,42,, 6774 (Sig #1); WG1936776-1,42,, 6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109 (Sig #1); WG1936891,WG1936776,ical21109 (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 08:06:50 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.377	525.4E6	141.8E6	25.000	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery =	113.01%	
	Standard Area 1 : #2 = 137931823				Recovery =	102.80%	
28) i	1-br-2-nb_Ch	1.262	1.377	525.4E6	141.8E6	25.000	25.000M3
33) i	1-br-2-nb_To	1.262	1.377	525.4E6	141.8E6	25.000	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.600	1.859	878.7E6	240.0E6	38.522M4	45.021M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	77.04%	90.04%
27) s	Decachlorobi	6.232	6.951	828.6E6	197.0E6	48.775M4	48.040M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	97.55%	96.08%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 7:56
Operator : PEST10:mmg
Sample : WG1936774-1,42,, 6774 (Sig #1); WG1936776-1,42,, 6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109 (Sig #1); WG1936891,WG1936776,ical21109 (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 08:06:50 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

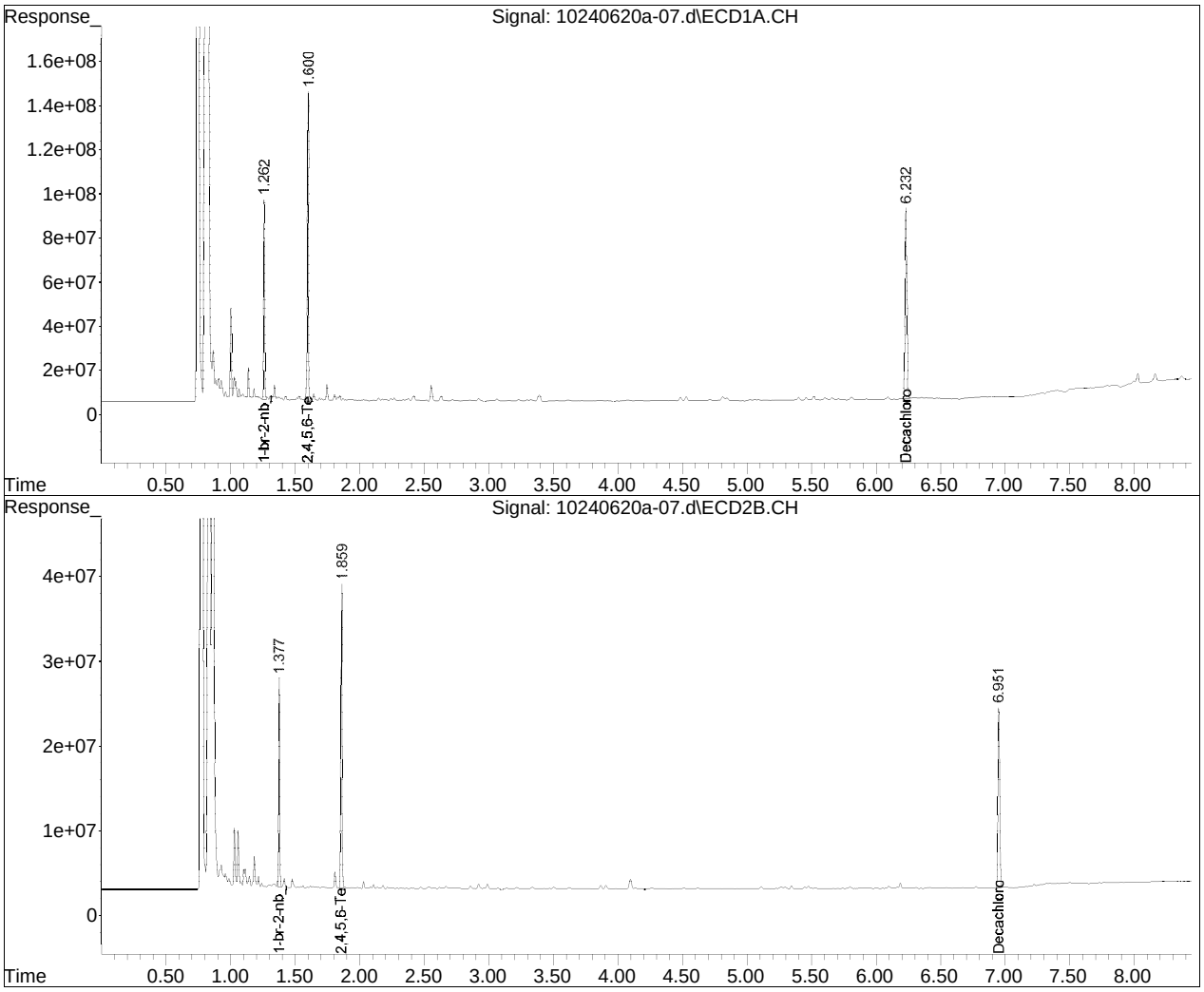
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 7:56
Operator : PEST10:mmg
Sample : WG1936774-1,42,, 6774 (Sig #1); WG1936776-1,42,, 6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109 (Sig #1); WG1936891,WG1936776,ical21
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 08:06:50 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

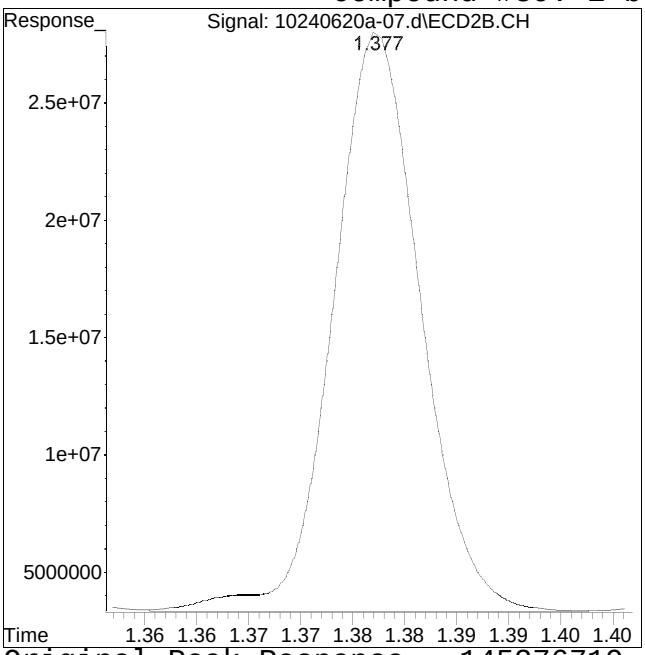
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

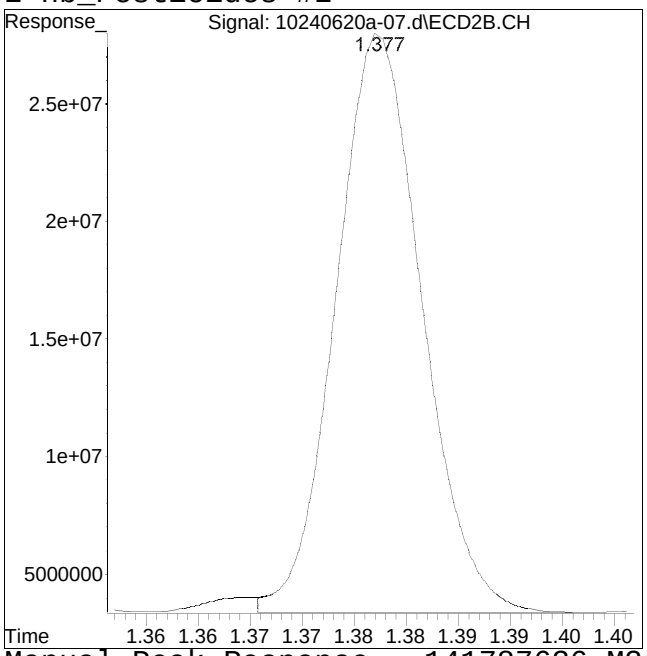


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-07.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 7:56 Instrument : Pest 10
Sample : WG1936774-1,42,, 6774 Quant Date : 6/20/2024 8:06 am

Compound #39: 1-br-2-nb_Pesticides #2



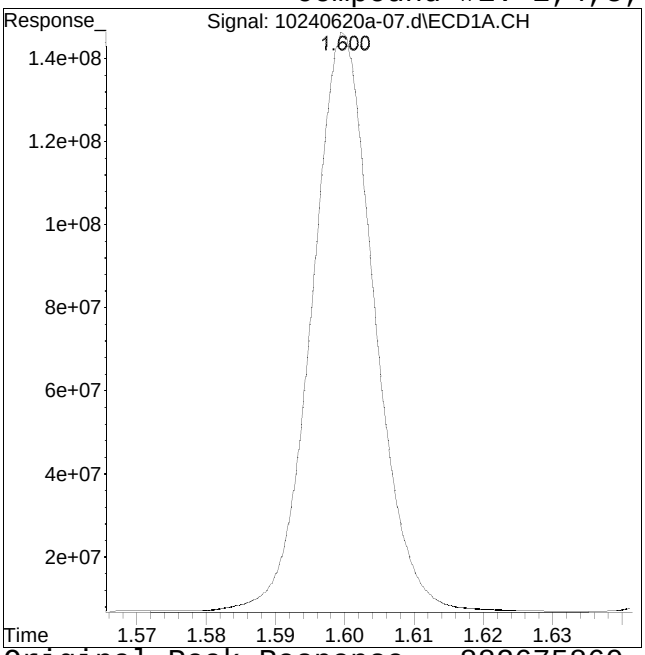


Original Peak Response = 145276719 Manual Peak Response = 141787636 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

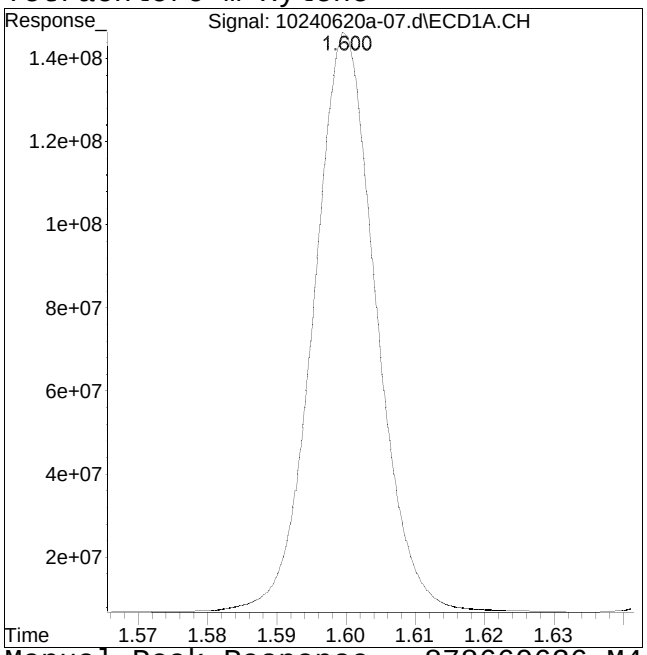
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-07.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 7:56 Instrument : Pest 10
Sample : WG1936774-1,42,, 6774 Quant Date : 6/20/2024 8:06 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 882675860



Manual Peak Response = 878660636 M4

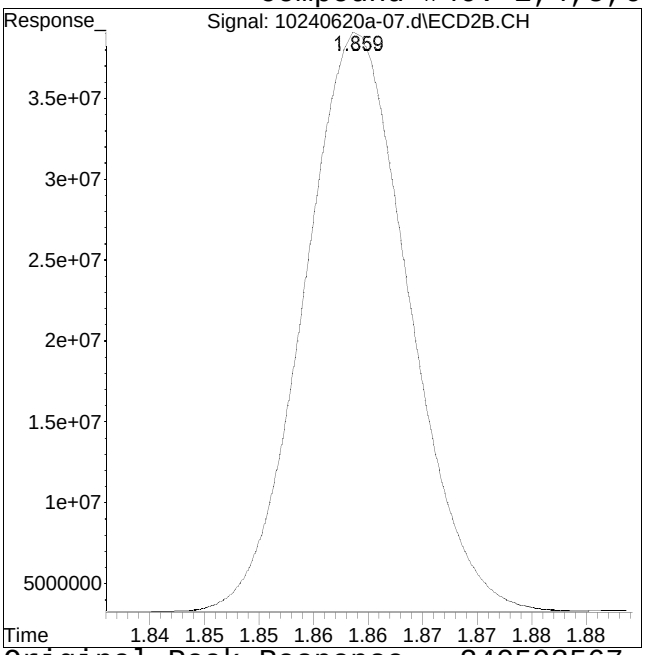
M4 = Poor automated baseline construction.

Manual Integration Report

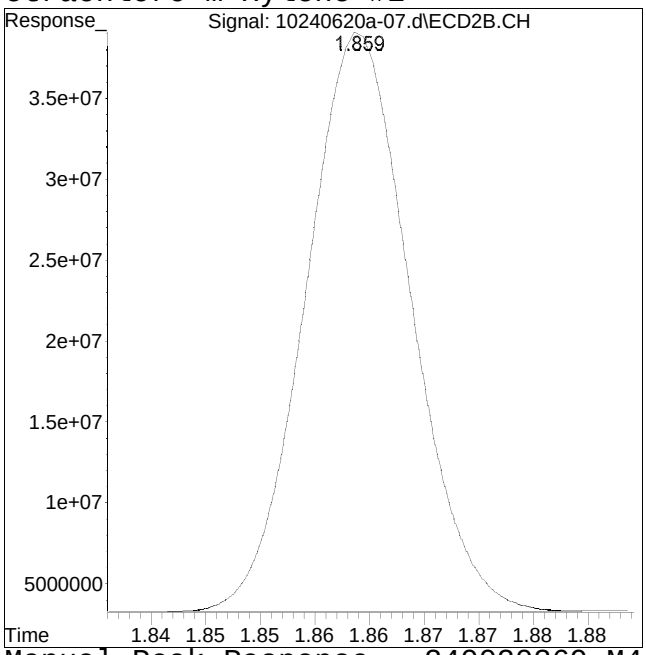
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-07.d
Date Inj'd : 6/20/2024 7:56
Sample : WG1936774-1,42,, 6774

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 8:06 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 240593567



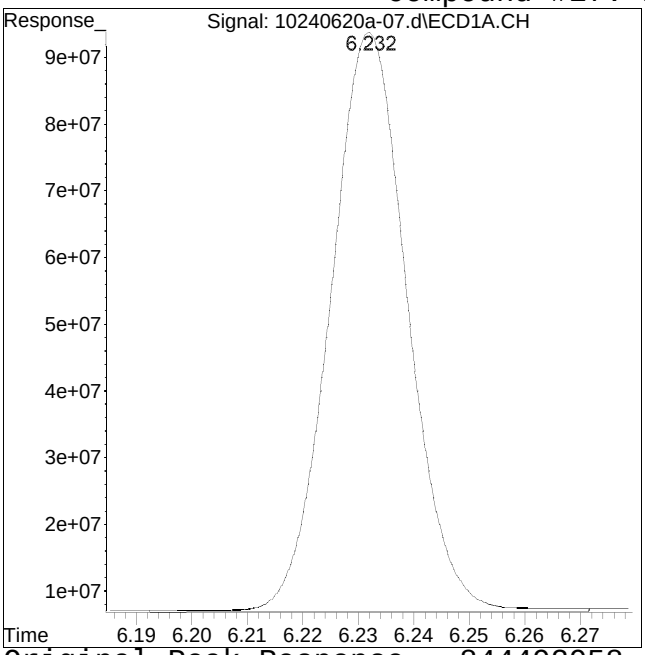
Manual Peak Response = 240020369 M4

M4 = Poor automated baseline construction.

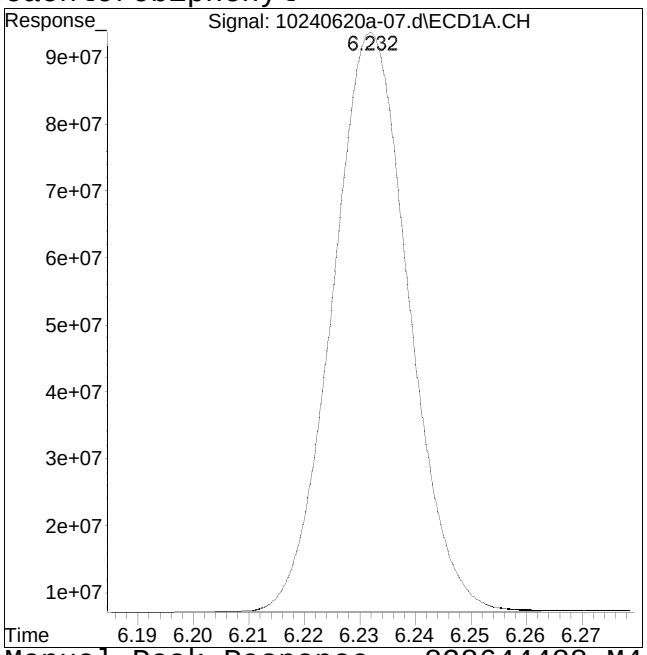
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-07.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 7:56 Instrument : Pest 10
Sample : WG1936774-1,42,, 6774 Quant Date : 6/20/2024 8:06 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 844492958



Manual Peak Response = 828644488 M4

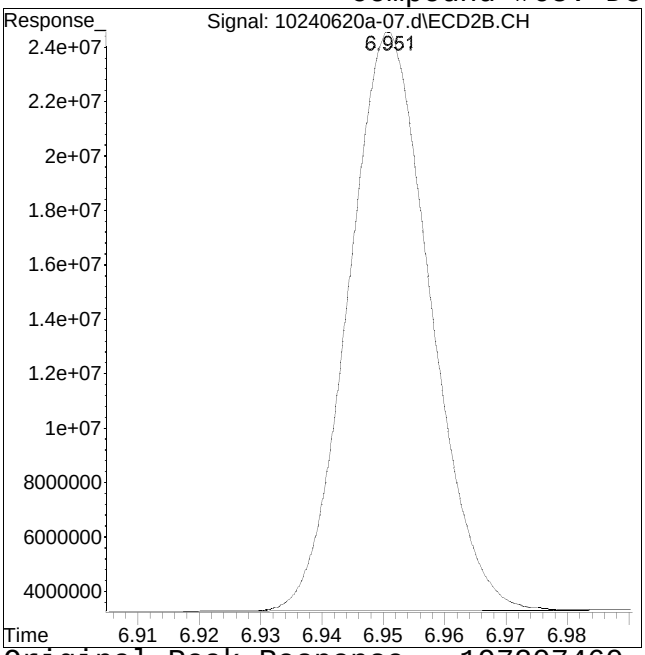
M4 = Poor automated baseline construction.

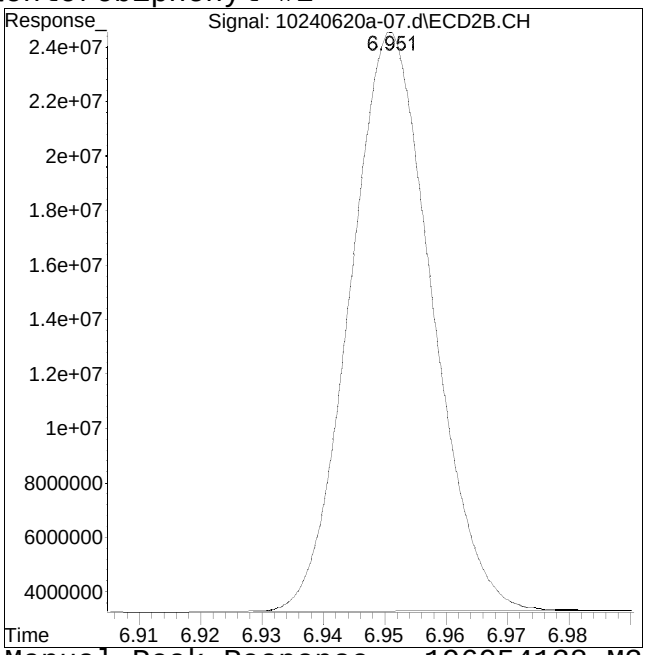
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-07.d
Date Inj'd : 6/20/2024 7:56
Sample : WG1936774-1,42,, 6774

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 8:06 am

Compound #65: Decachlorobiphenyl #2





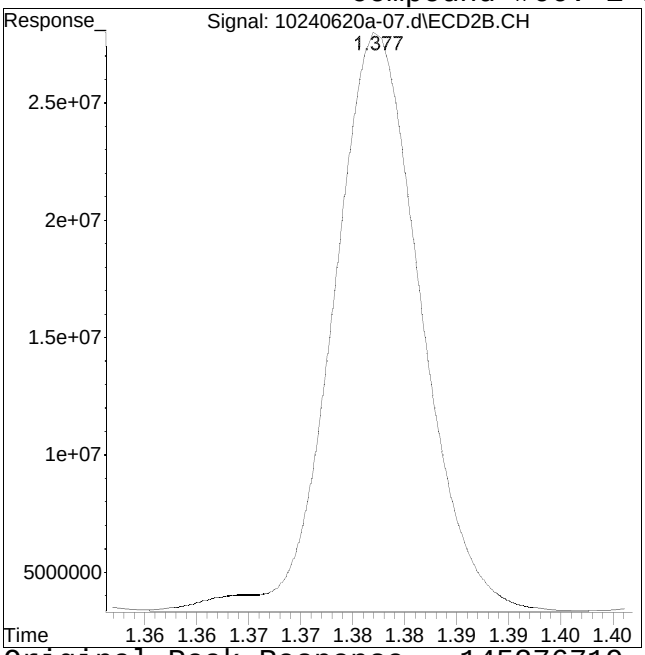
Original Peak Response = 197207460 Manual Peak Response = 196954138 M3

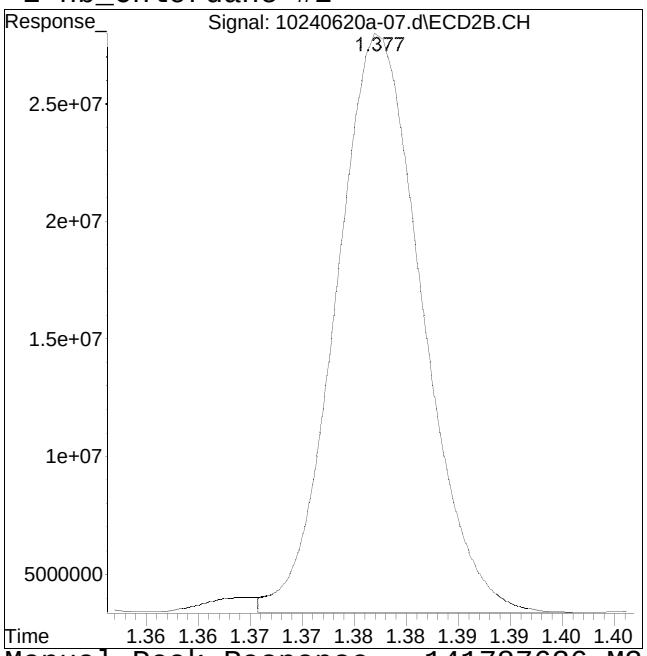
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-07.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 7:56 Instrument : Pest 10
Sample : WG1936774-1,42,, 6774 Quant Date : 6/20/2024 8:06 am

Compound #66: 1-br-2-nb_Chlordane #2



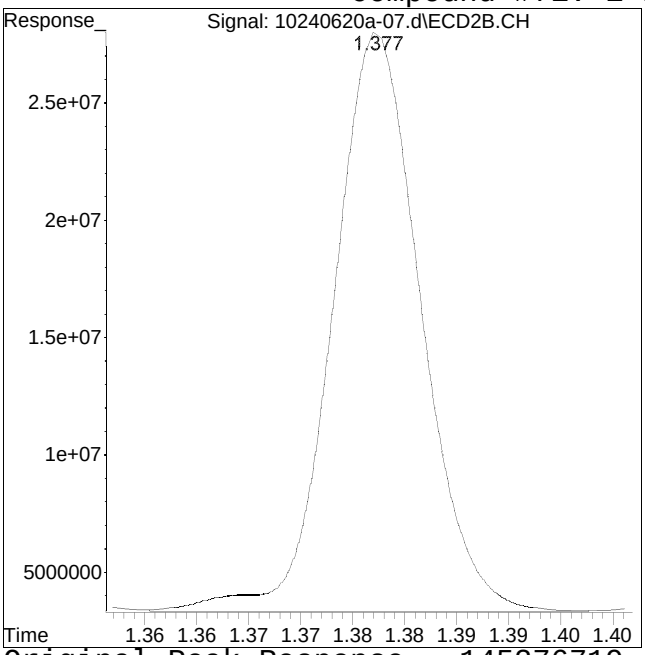


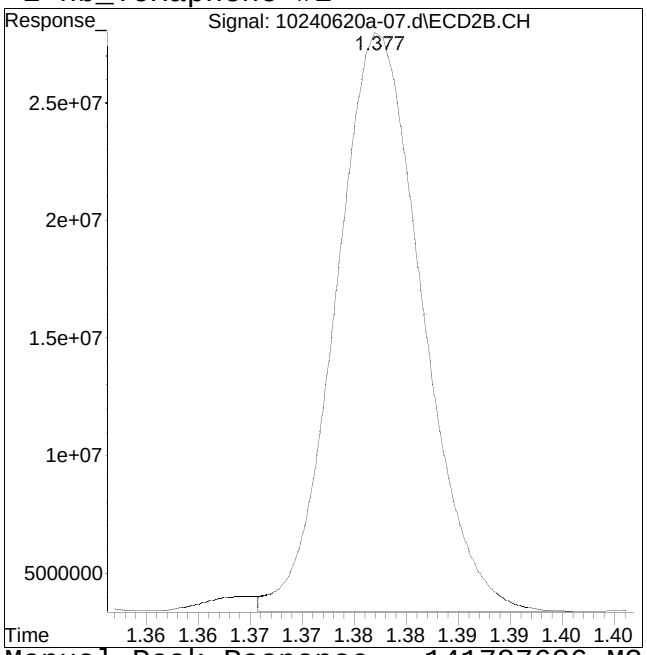
Original Peak Response = 145276719 Manual Peak Response = 141787636 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-07.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 7:56 Instrument : Pest 10
Sample : WG1936774-1,42,, 6774 Quant Date : 6/20/2024 8:06 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 145276719 Manual Peak Response = 141787636 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:07
Operator : PEST10:mmg
Sample : WG1936774-2,42,,6774 (Sig #1); WG1936776-2,42,,6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:52 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.377	532.6E6	142.6E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 114.55%		
	Standard Area 1 : #2 = 137931823				Recovery = 103.37%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.600	1.858	850.8E6	233.1E6	36.796M4	43.476M3
	Spiked Amount 50.000	Range 30 - 150		Recovery = 73.59%		86.95%	
27) s	Decachlorobi	6.231	6.951	813.5E6	195.0E6	47.208M4	47.288M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 94.42%		94.58%	
Target Compounds							
4) t	alpha-BHC	1.906	2.279	1362.2E6	354.6E6	42.331M4	46.458M4
5) t	gamma-BHC (l	2.104	2.566	1248.8E6	325.7E6	40.950M4	45.424M4
6) t	beta-BHC	2.159	2.630	530.8E6	144.7E6	43.536M4	46.024M4
7) t	delta-BHC	2.285	2.899	1180.3E6	308.5E6	39.224M4	42.846M3
8) t	Heptachlor	2.443	2.965	1245.5E6	311.9E6	43.003M4	43.806M4
9) t	Aldrin	2.681	3.286	1128.7E6	284.9E6	41.322	43.937M4
12) t	Heptachlor E	3.217	3.905	1102.7E6	280.2E6	42.379	43.211
13) t	gamma-Chlord	3.338	4.126	1115.5E6	287.2E6	46.861M4	49.793M3
14) t	alpha-Chlord	3.470	4.297	1083.7E6	281.3E6	40.079	43.374M4
15) t	4,4'-DDE	3.567	4.494	1076.4E6	270.1E6	42.034	45.044
16) t	Endosulfan I	3.604	4.358	1024.1E6	265.5E6	41.335M3	44.007
17) t	Dieldrin	3.861	4.650	1184.9E6	296.6E6	46.341M4	49.124M4
18) t	Endrin	4.114	4.948	1126.1E6	280.4E6	42.877M4	45.262
19) t	4,4'-DDD	4.229	5.068	952.4E6	234.6E6	45.754M4	48.641M4
20) t	Endosulfan I	4.362	5.146	1018.4E6	256.2E6	44.926M4	47.234
21) t	4,4'-DDT	4.531	5.347	1050.8E6	250.0E6	45.612	45.671

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:07
Operator : PEST10:mmg
Sample : WG1936774-2,42,,6774 (Sig #1); WG1936776-2,42,,6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:52 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.790	5.442	694.1E6	174.9E6	40.133M4	39.796M4
23) t Methoxychlor	5.031	5.911	584.1E6	139.4E6	54.909	50.759
25) t Endosulfan S	5.190	5.670	959.9E6	237.7E6	42.700M4	43.959M3
26) t Endrin Keton	5.420	6.083	1154.6E6	284.2E6	46.831M3	48.241M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

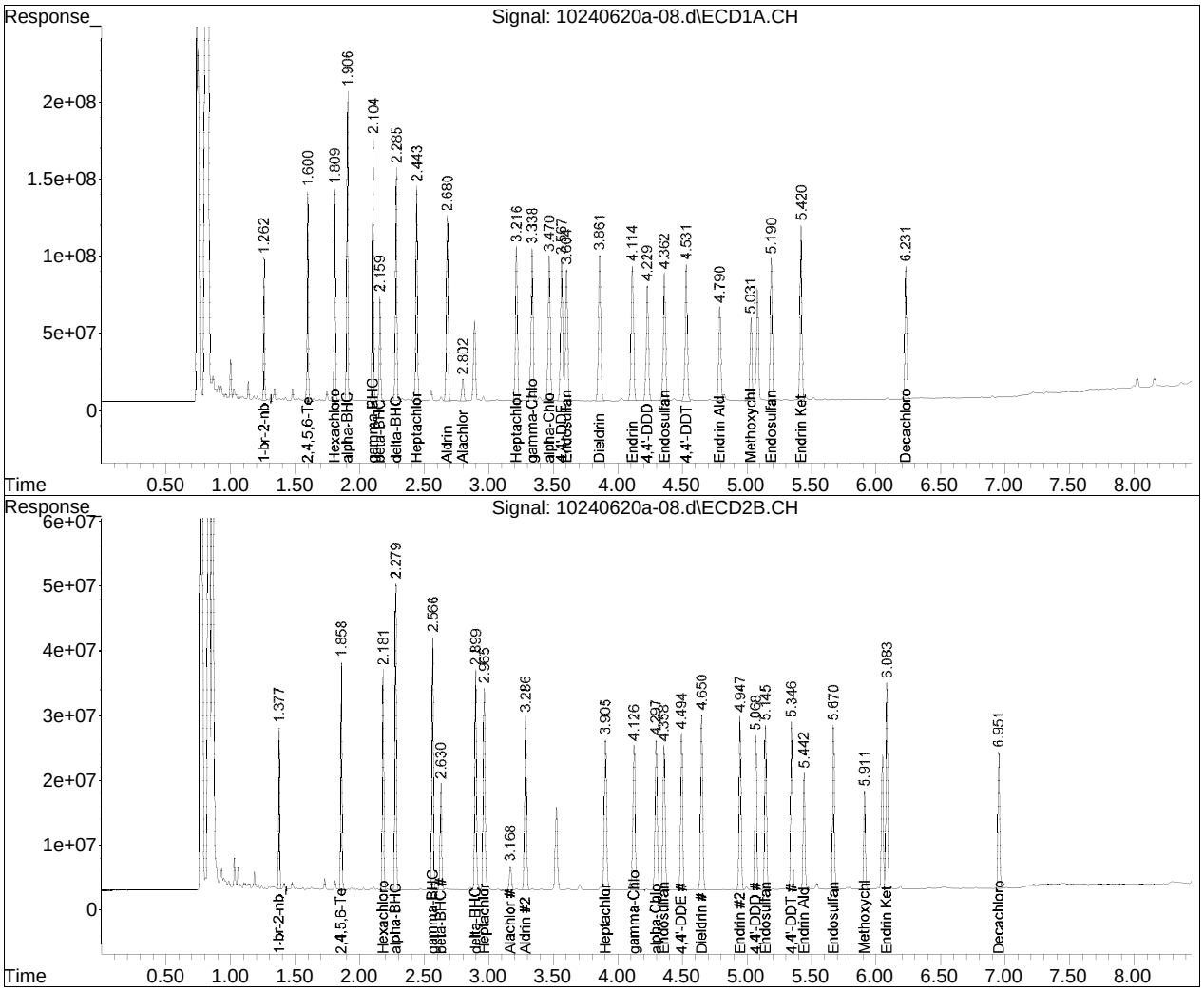
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240620A\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:07
Operator : PEST10:mmg
Sample : WG1936774-2,42,,6774 (Sig #1); WG1936776-2,42,,6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:52 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

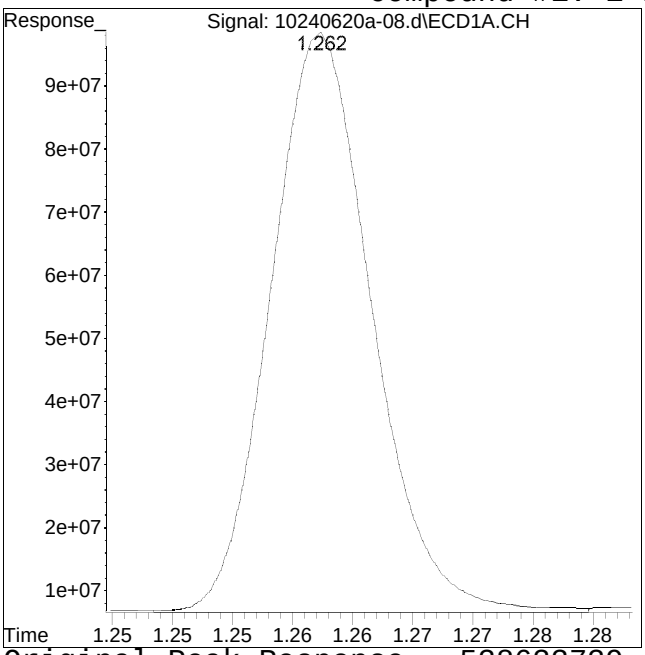
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

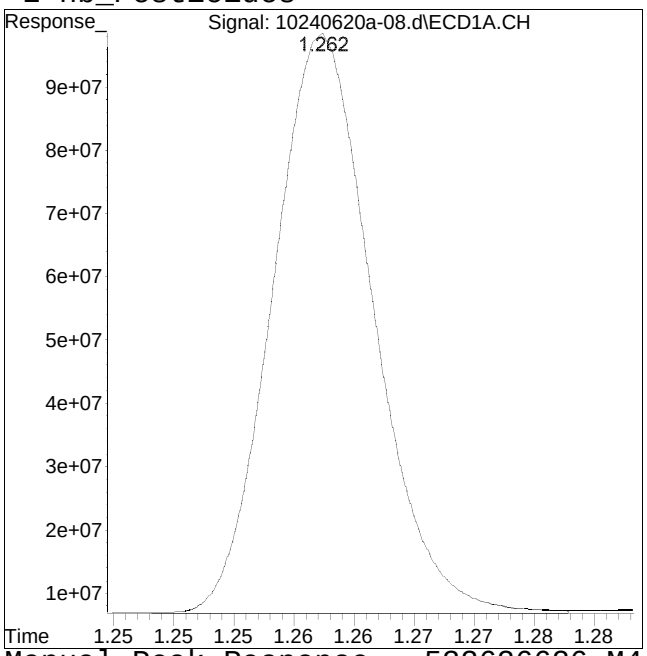


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #1: 1-br-2-nb_Pesticides



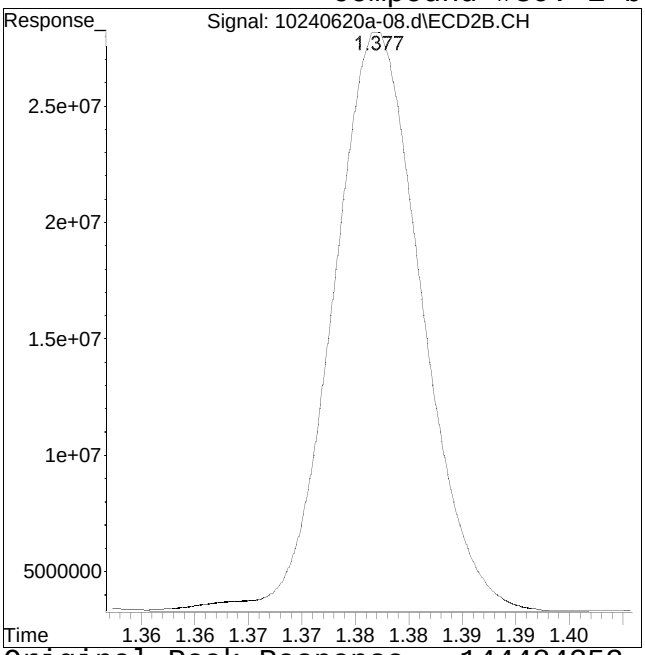


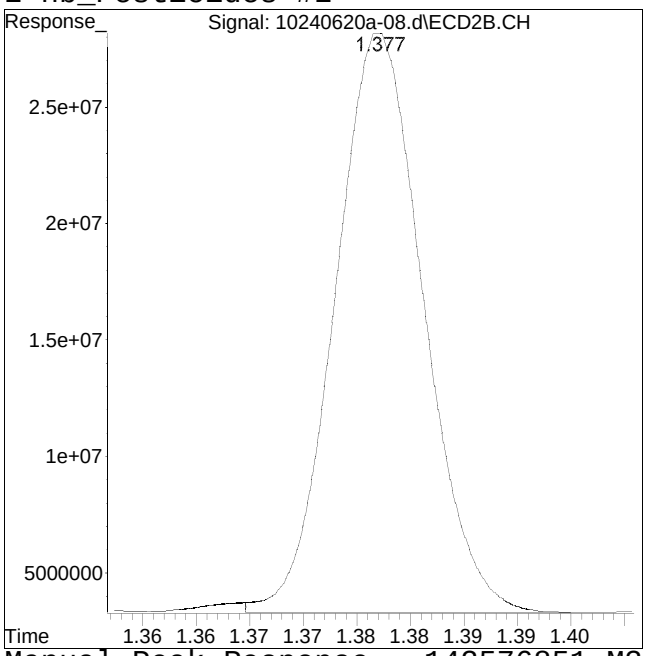
Original Peak Response = 538633739 Manual Peak Response = 532626626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #39: 1-br-2-nb_Pesticides #2



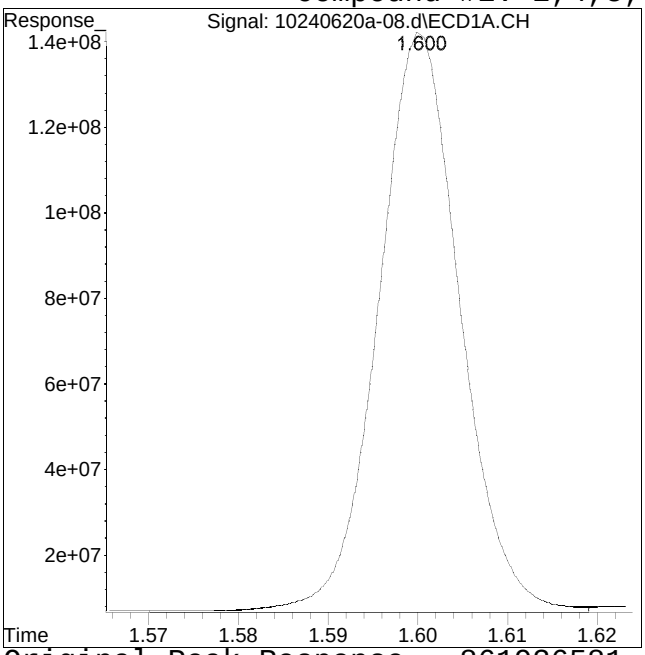


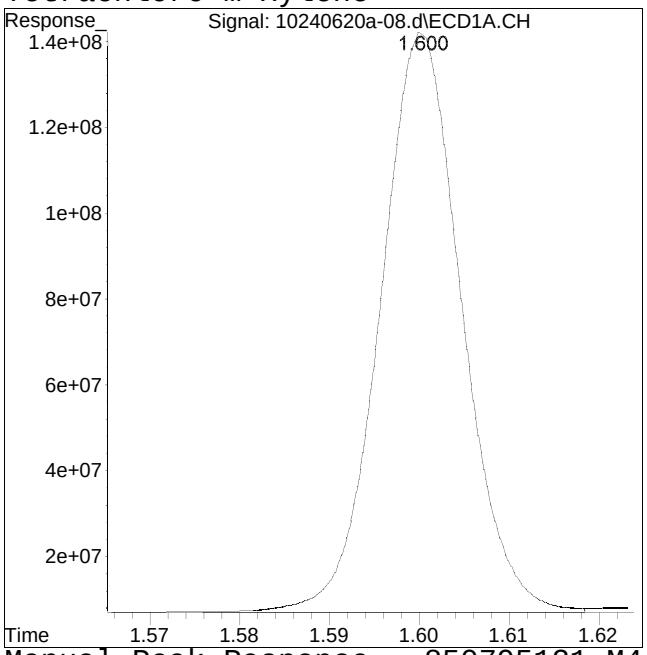
Original Peak Response = 144484353 Manual Peak Response = 142576851 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



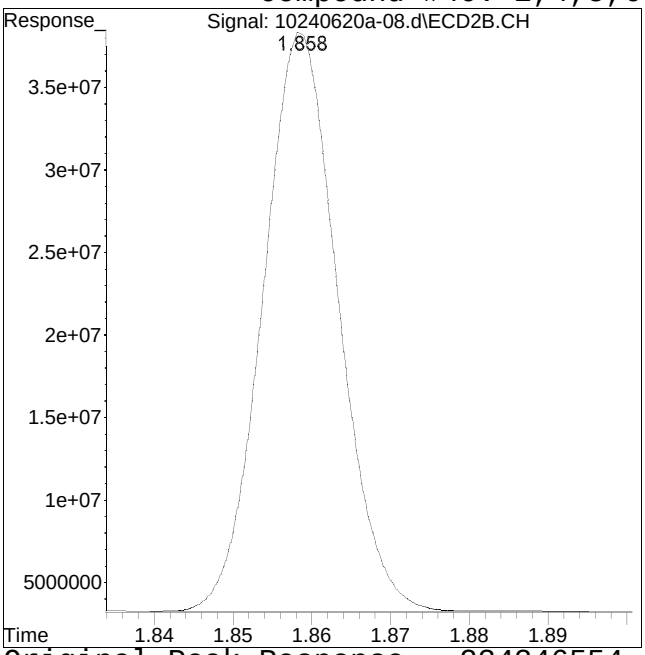


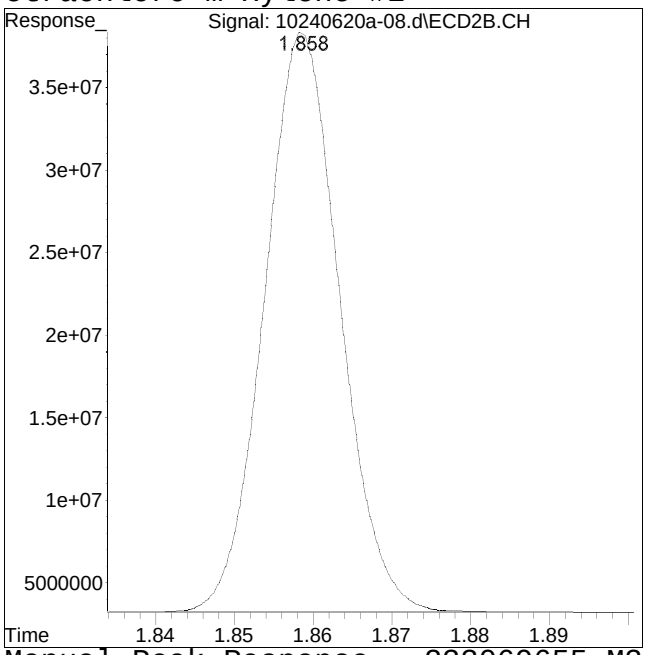
Original Peak Response = 861936581 Manual Peak Response = 850795121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



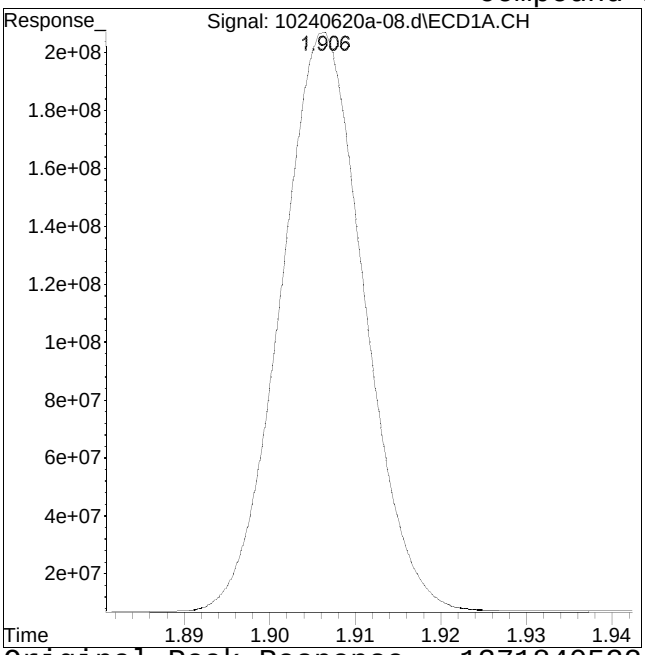


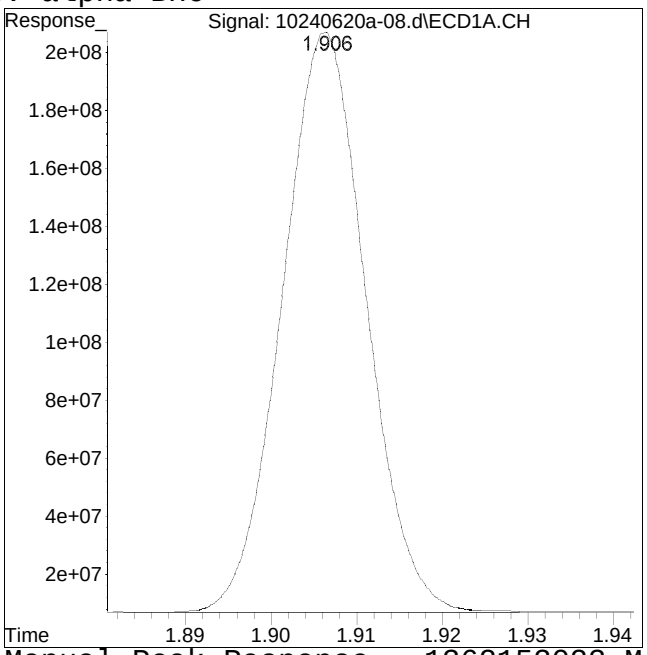
Original Peak Response = 234346554 Manual Peak Response = 233069655 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #4: alpha-BHC



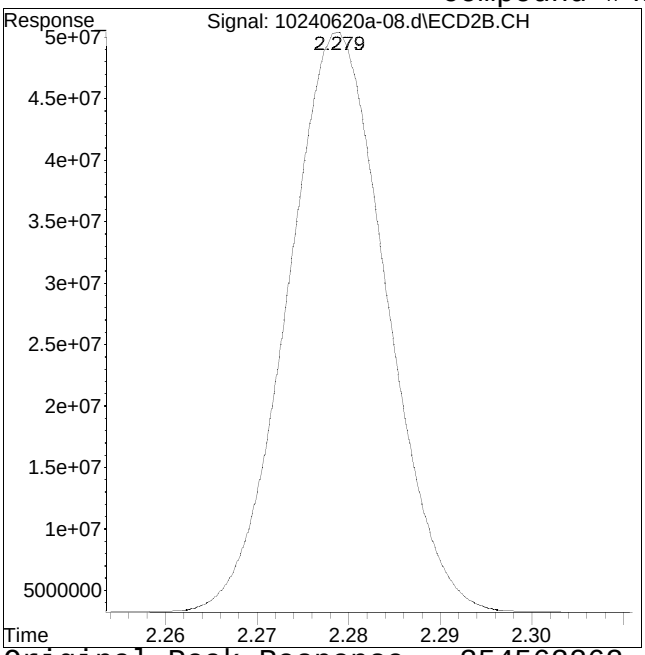


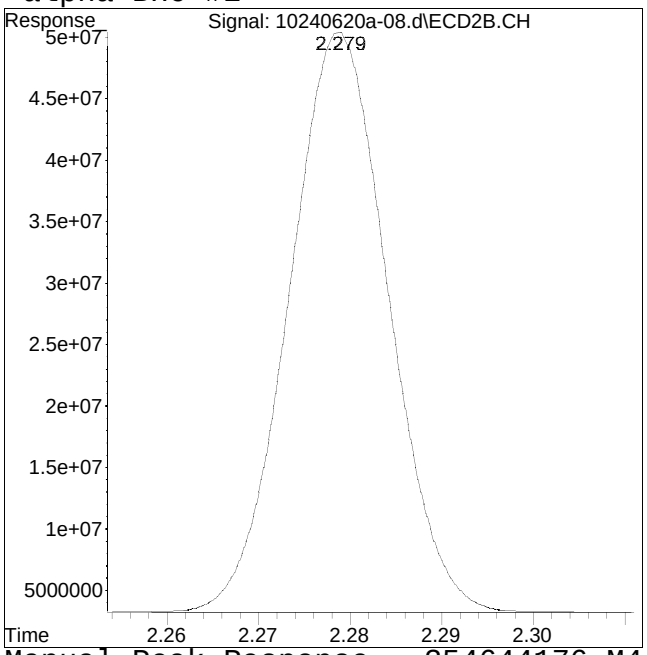
Original Peak Response = 1371840522 Manual Peak Response = 1362153023 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #42: alpha-BHC #2



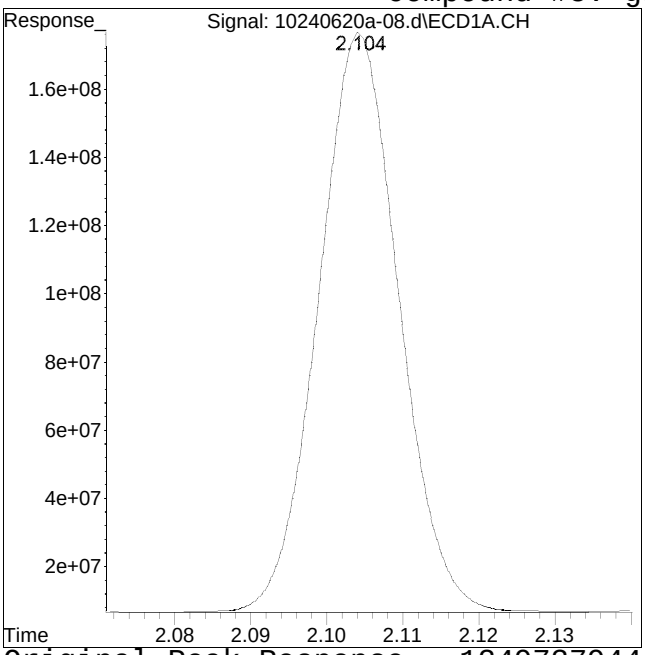


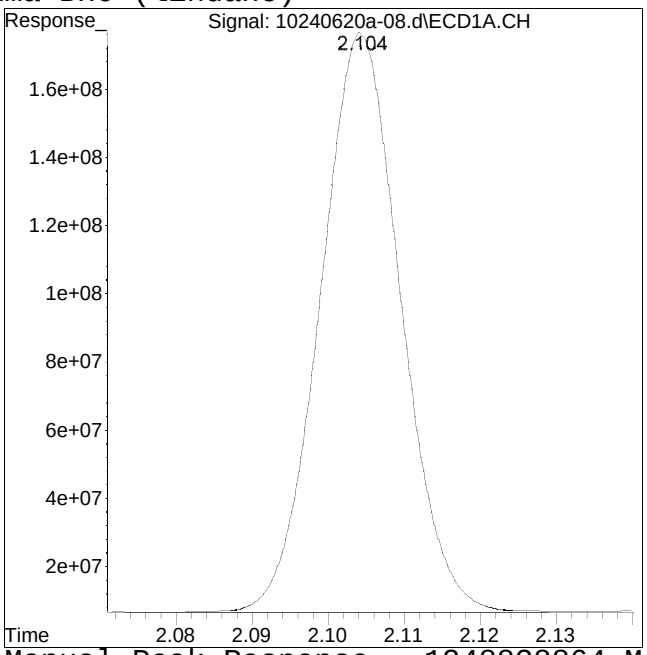
Original Peak Response = 354562262 Manual Peak Response = 354644176 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #5: gamma-BHC (lindane)



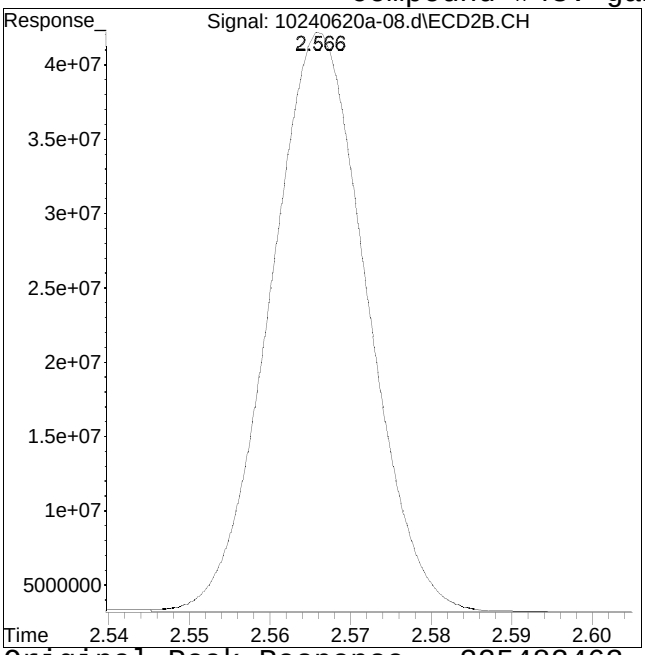


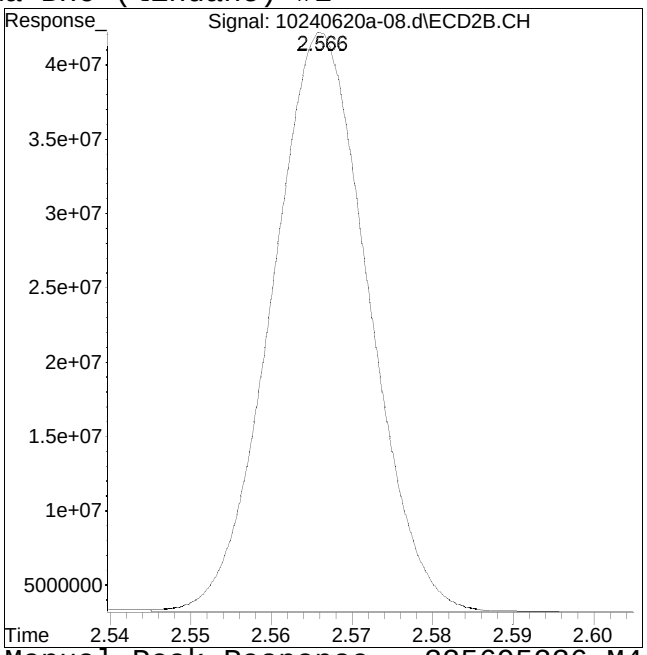
Original Peak Response = 1249737944 Manual Peak Response = 1248838864 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #43: gamma-BHC (lindane) #2



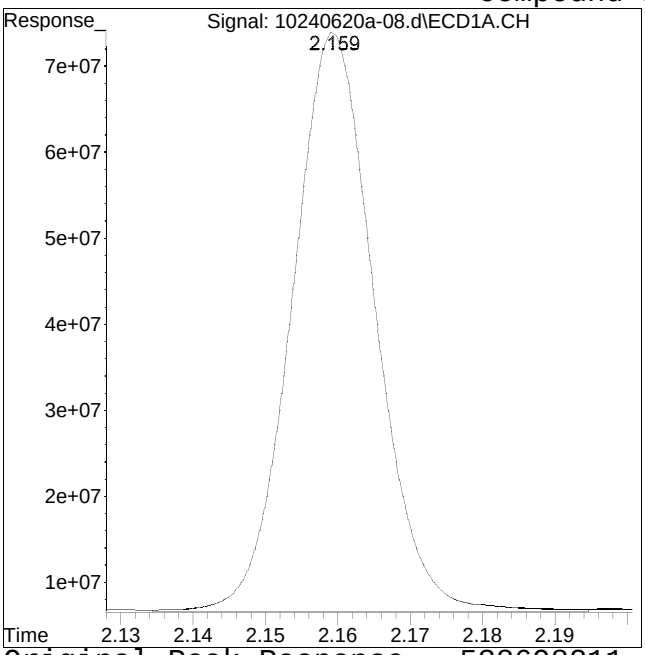


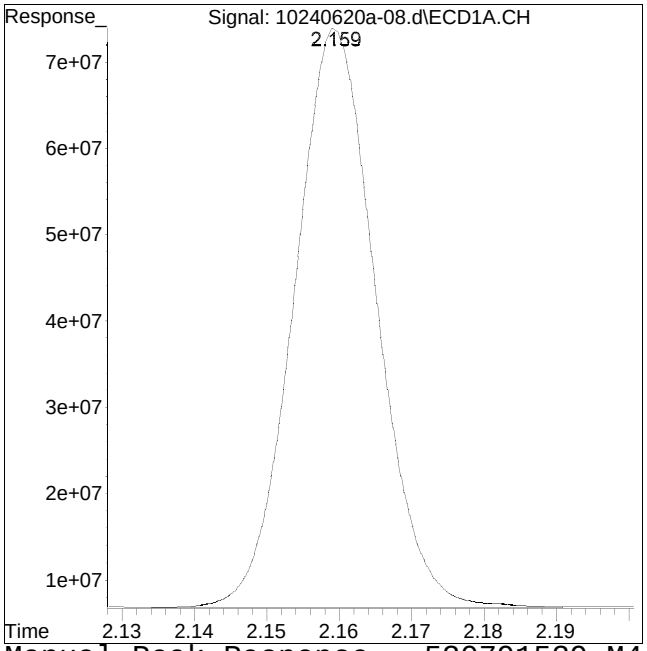
Original Peak Response = 325482463 Manual Peak Response = 325695236 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #6: beta-BHC



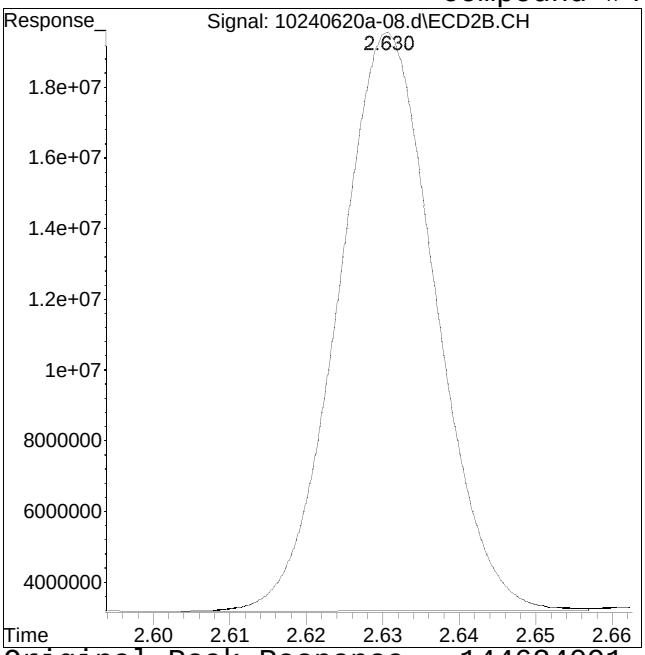


Original Peak Response = 538698211 Manual Peak Response = 530791539 M4
M4 = Poor automated baseline construction.

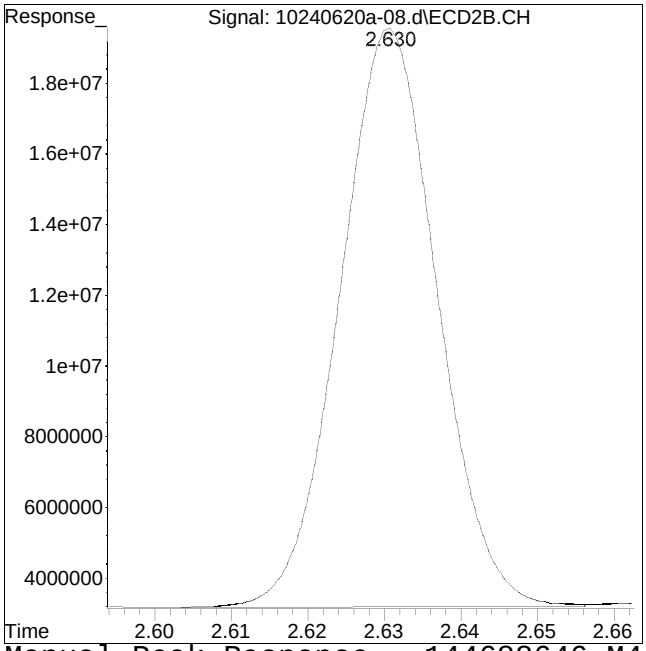
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #44: beta-BHC #2



Original Peak Response = 144624091

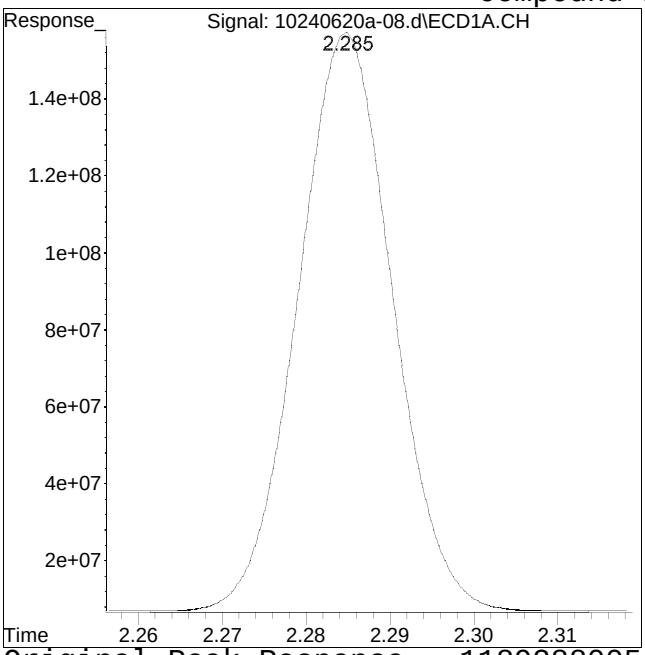


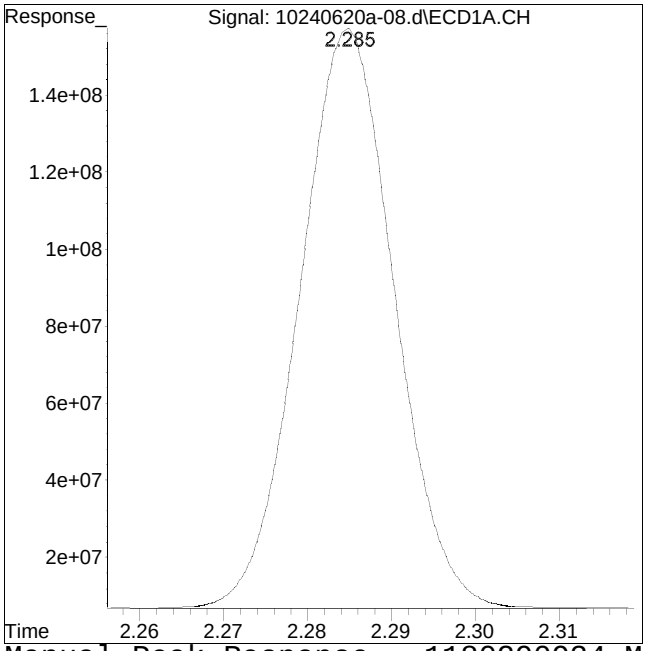
Manual Peak Response = 144688646 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #7: delta-BHC



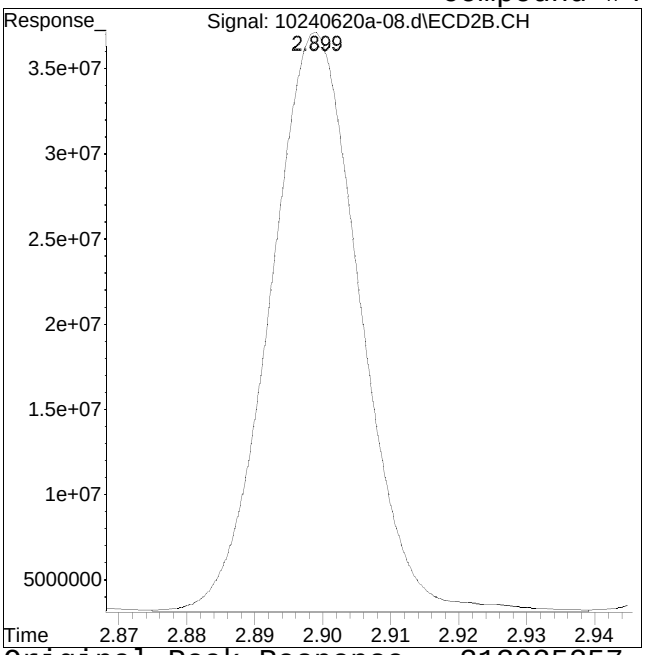


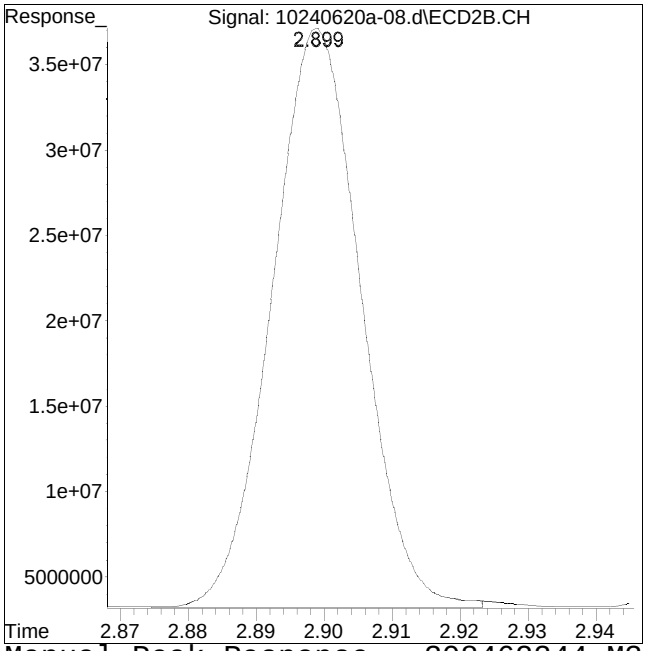
Original Peak Response = 1189288005 Manual Peak Response = 1180290934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #45: delta-BHC #2



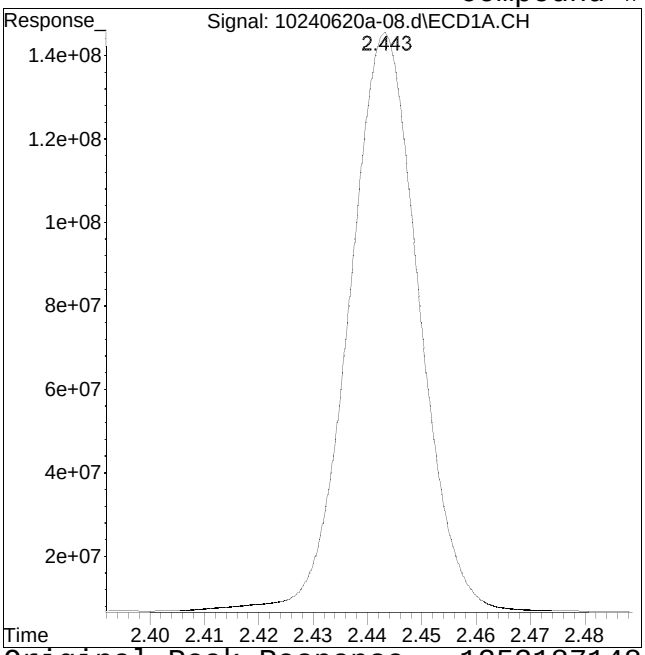


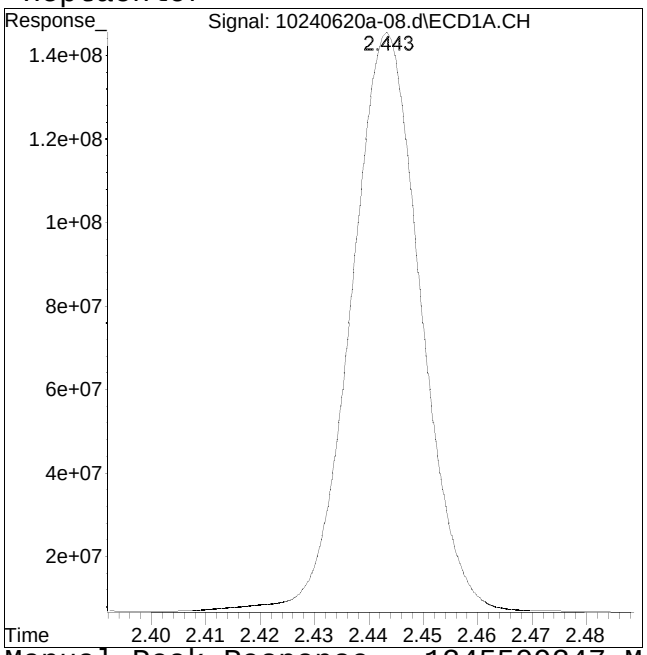
Original Peak Response = 313025357 Manual Peak Response = 308462244 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #8: Heptachlor



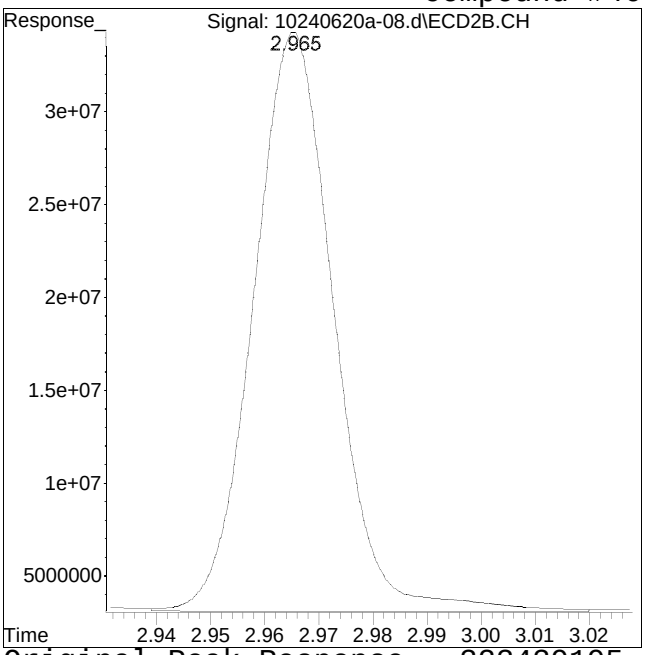


Original Peak Response = 1253187148 Manual Peak Response = 1245509247 M4
M4 = Poor automated baseline construction.

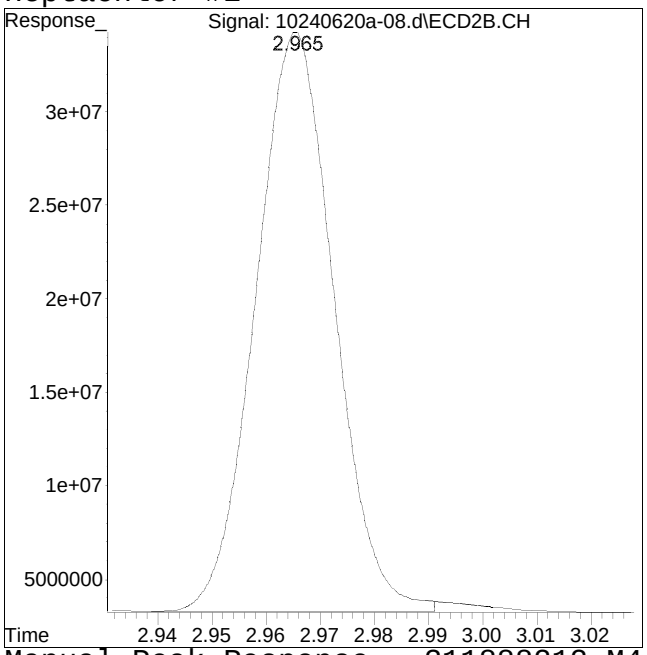
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #46: Heptachlor #2



Original Peak Response = 323439195



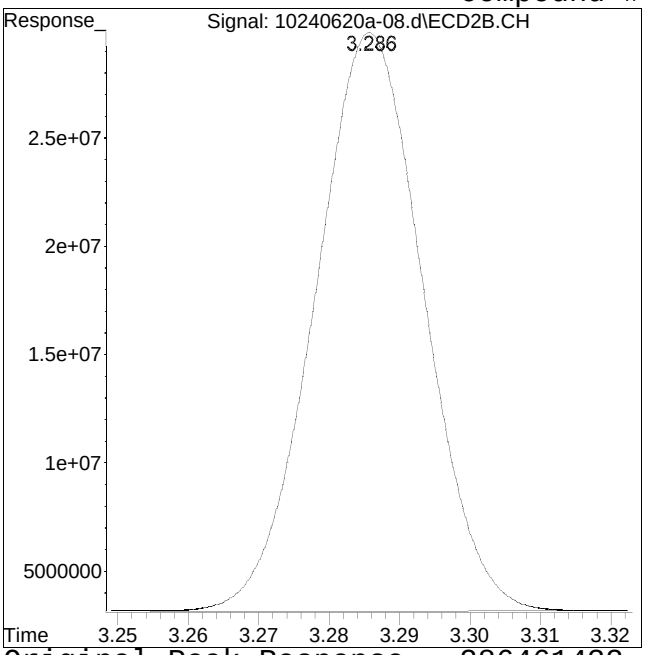
Manual Peak Response = 311888212 M4

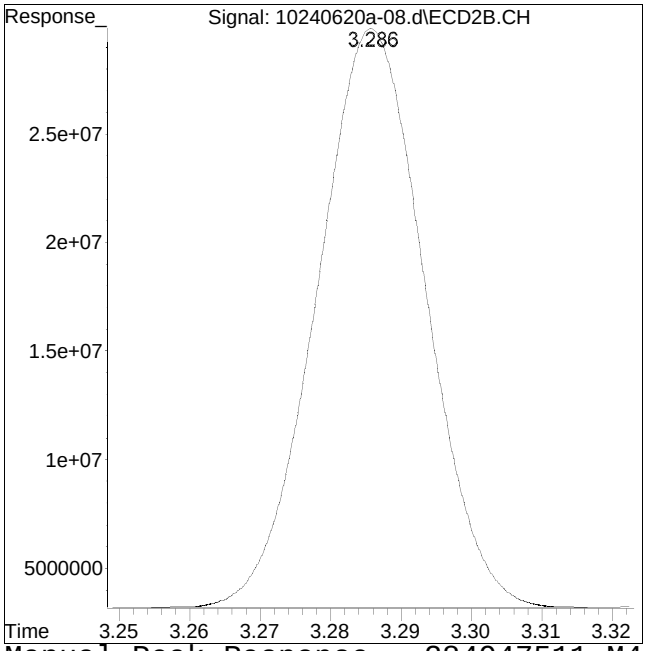
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #47: Aldrin #2



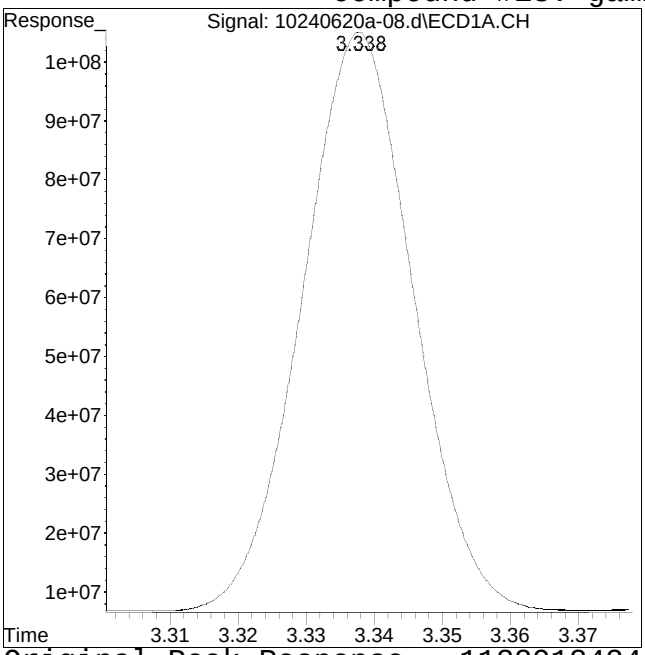


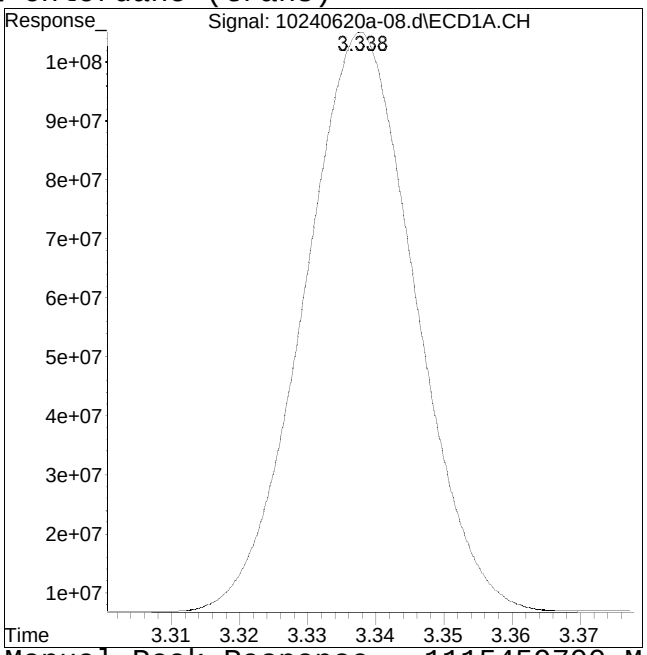
Original Peak Response = 286461432 Manual Peak Response = 284947511 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #13: gamma-Chlordane (trans)



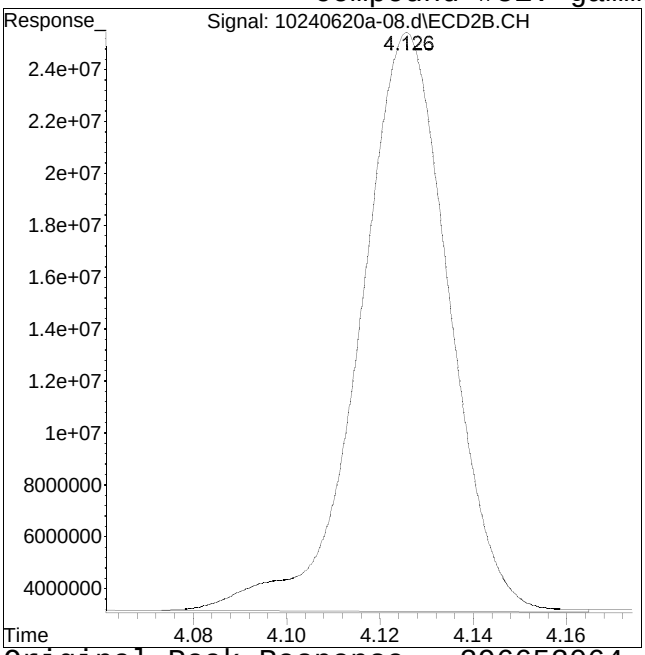


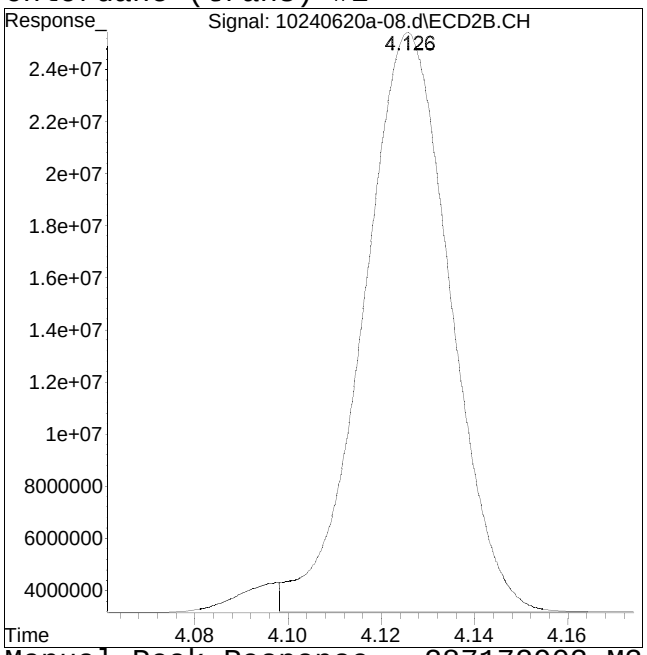
Original Peak Response = 1122912424 Manual Peak Response = 1115459700 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #51: gamma-Chlordane (trans) #2



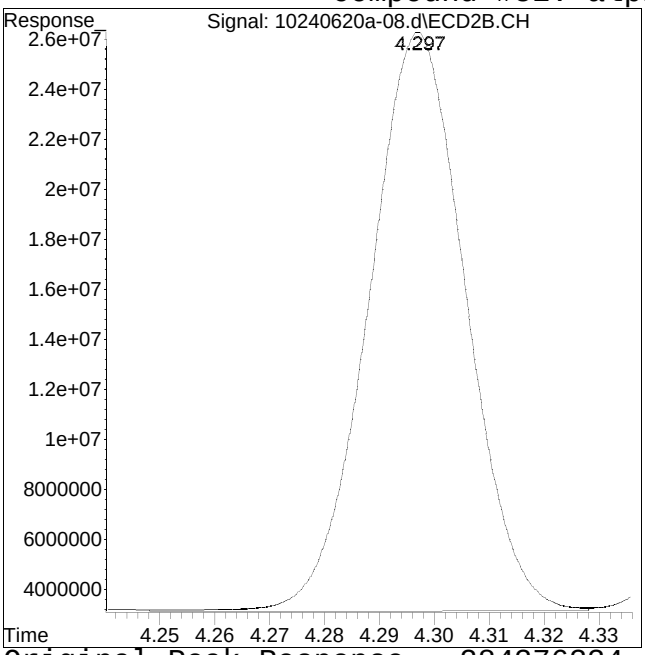


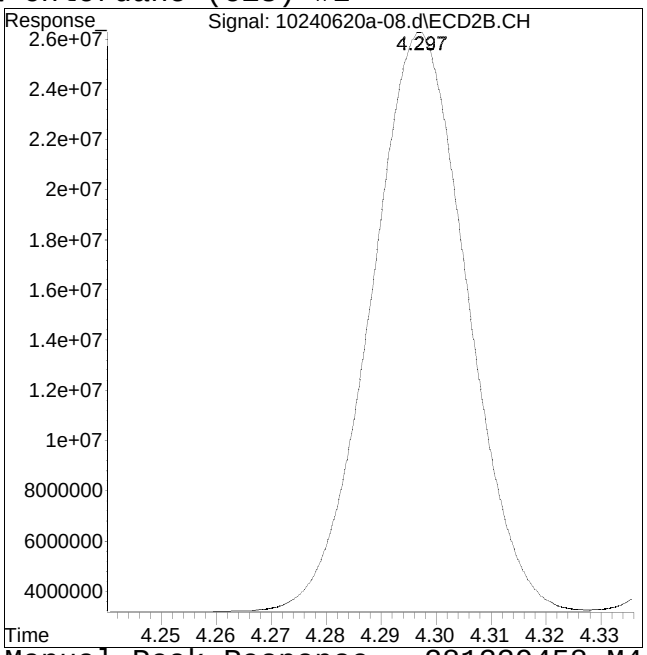
Original Peak Response = 296652064 Manual Peak Response = 287172902 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #52: alpha-Chlordane (cis) #2



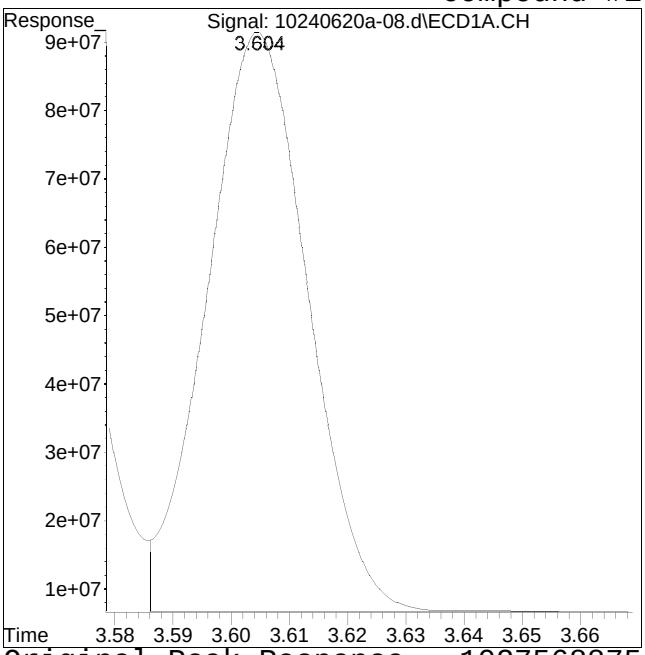


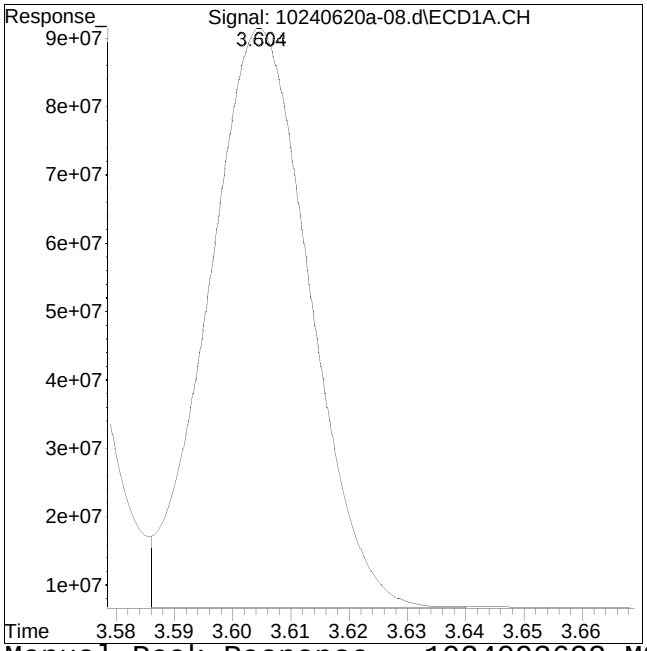
Original Peak Response = 284376334 Manual Peak Response = 281339458 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #16: Endosulfan I



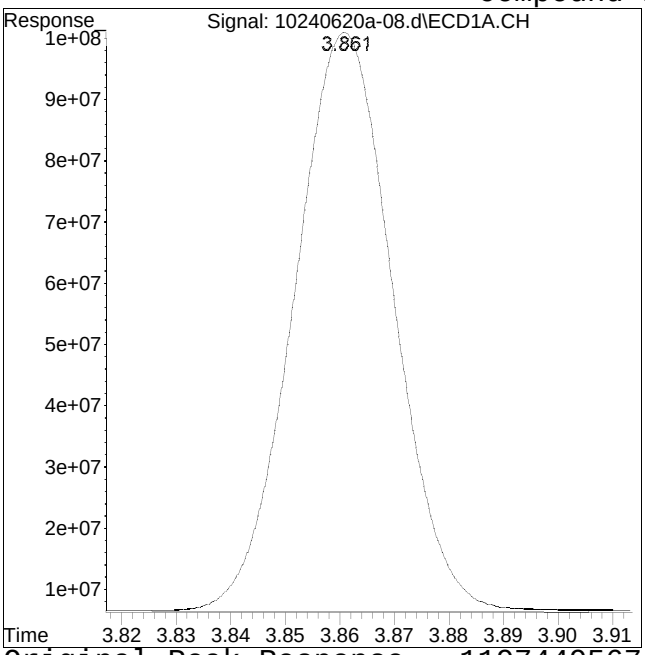


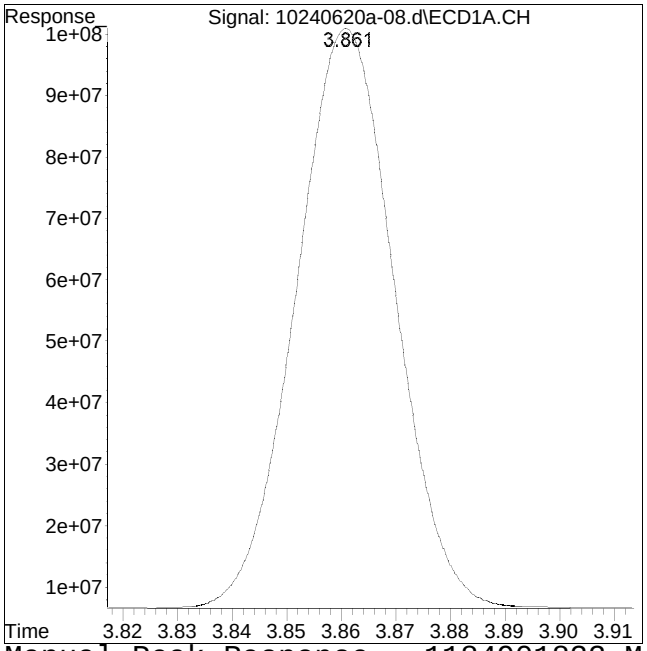
Original Peak Response = 1027568875 Manual Peak Response = 1024093623 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #17: Dieldrin



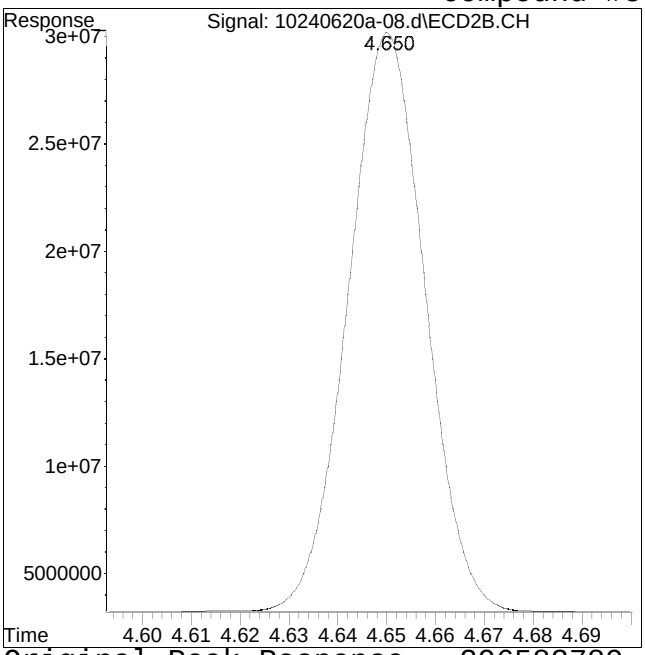


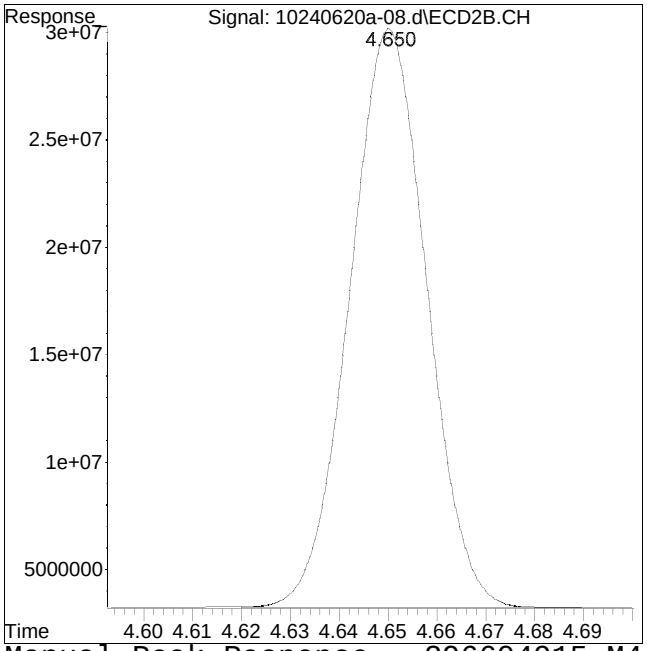
Original Peak Response = 1197449567 Manual Peak Response = 1184901833 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #55: Dieldrin #2



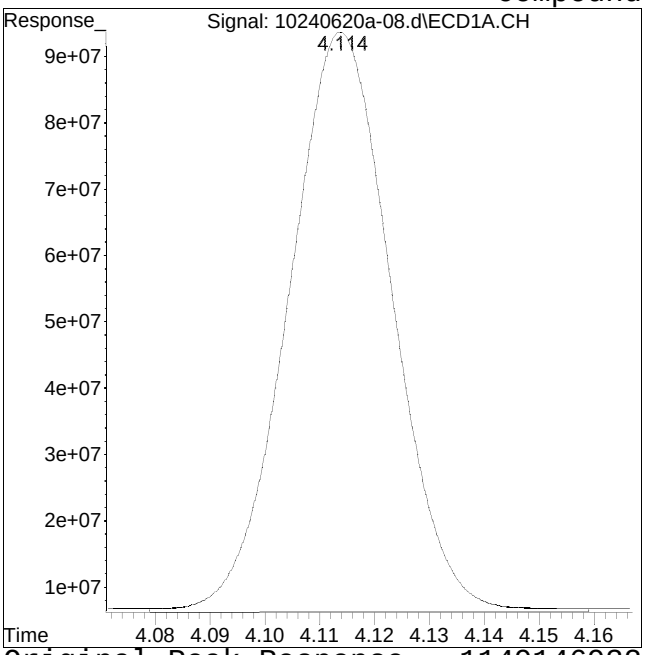


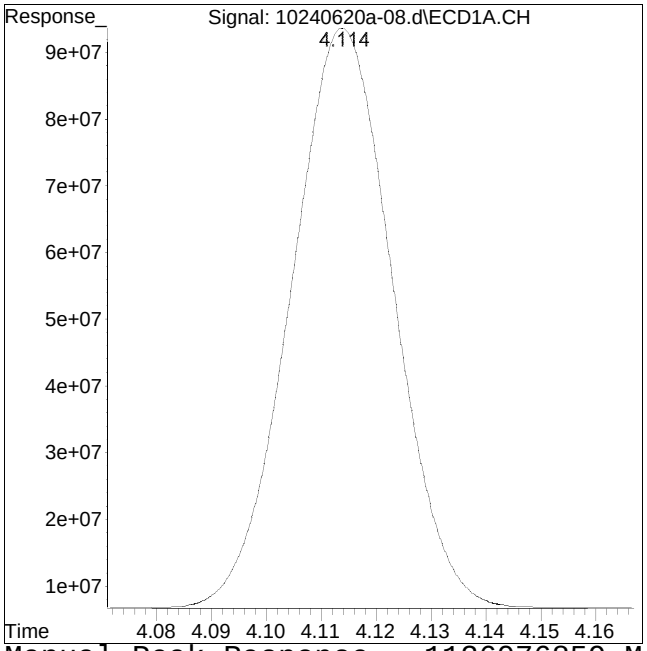
Original Peak Response = 296583789 Manual Peak Response = 296604915 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #18: Endrin



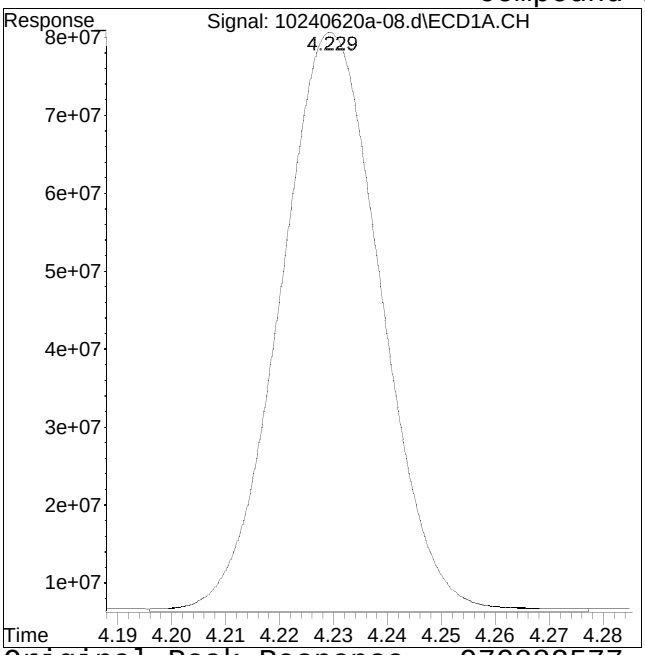


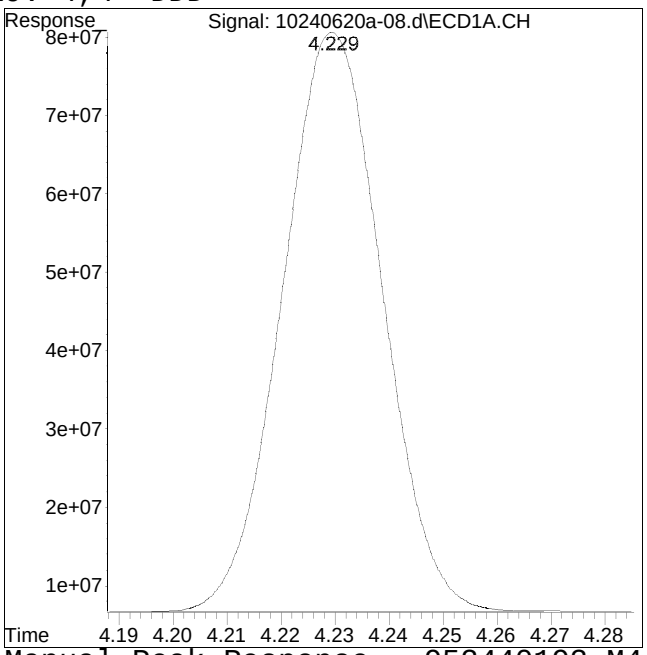
Original Peak Response = 1149146932 Manual Peak Response = 1126076859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #19: 4,4'-DDD



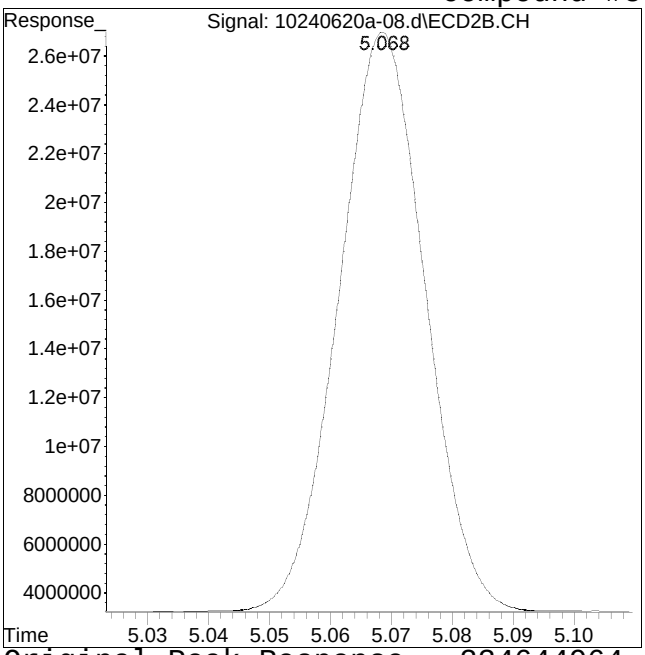


Original Peak Response = 970882577 Manual Peak Response = 952440193 M4
M4 = Poor automated baseline construction.

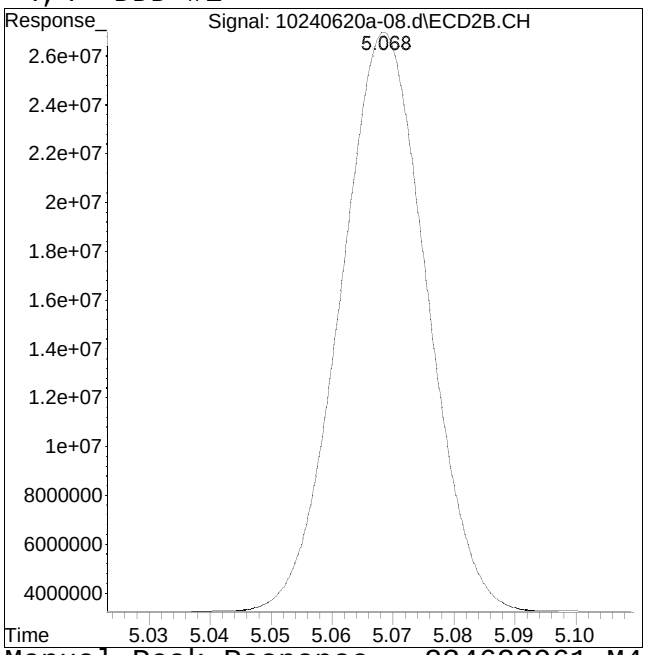
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 234644964



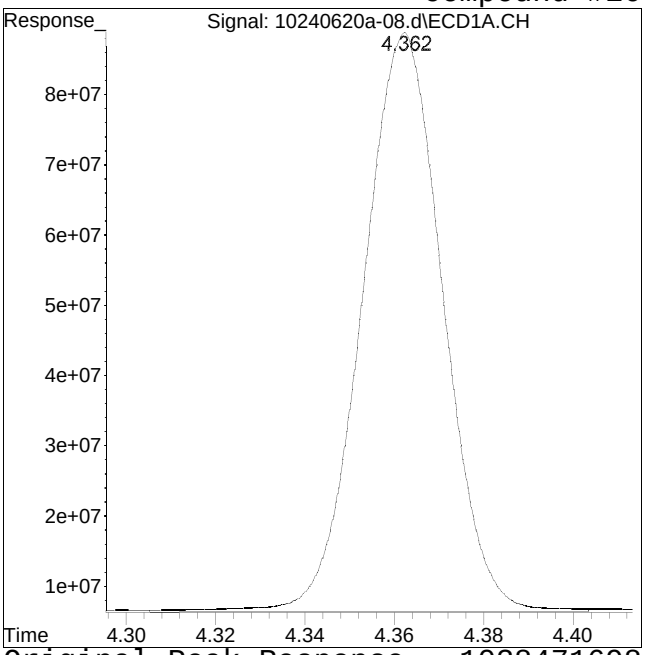
Manual Peak Response = 234623961 M4

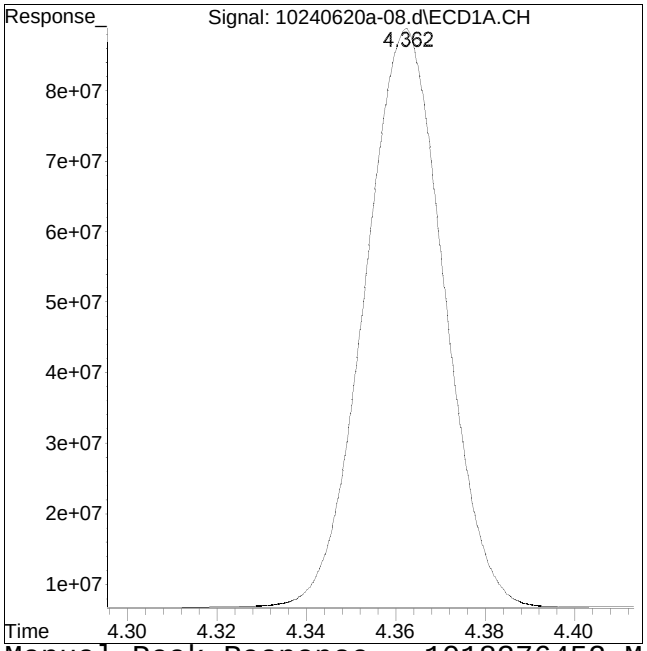
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #20: Endosulfan II



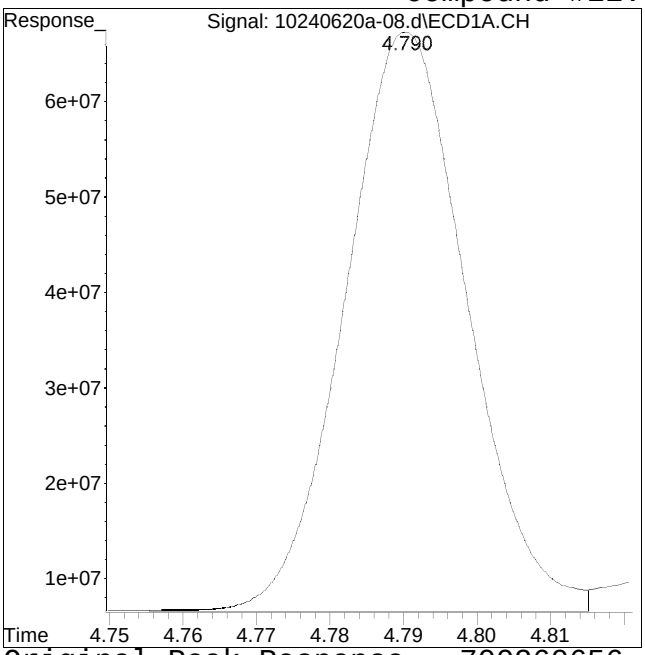


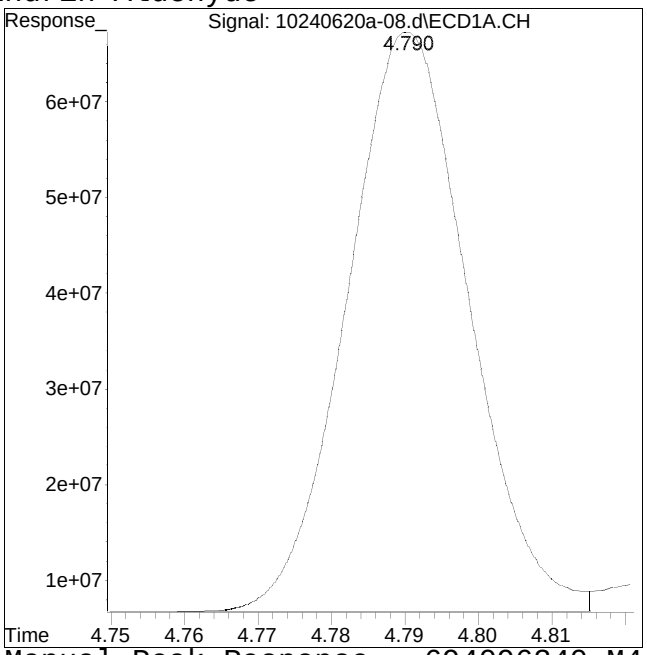
Original Peak Response = 1038471698 Manual Peak Response = 1018376452 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #22: Endrin Aldehyde



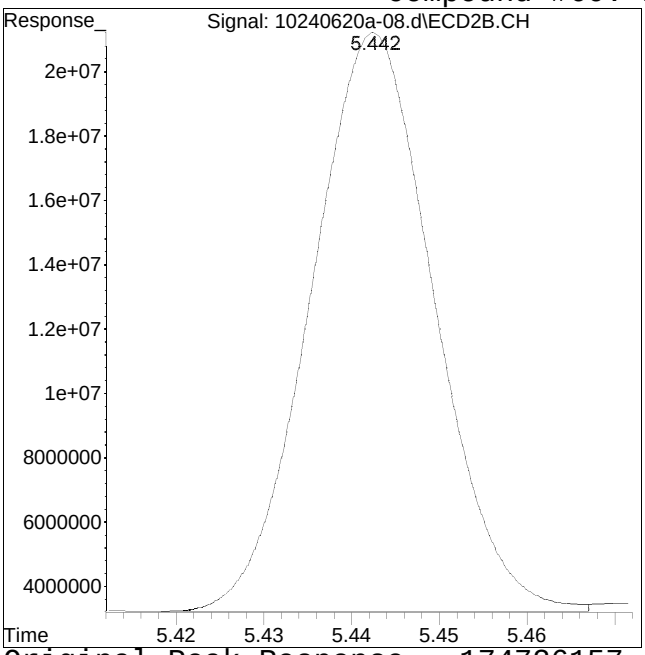


Original Peak Response = 700260656 Manual Peak Response = 694096340 M4
M4 = Poor automated baseline construction.

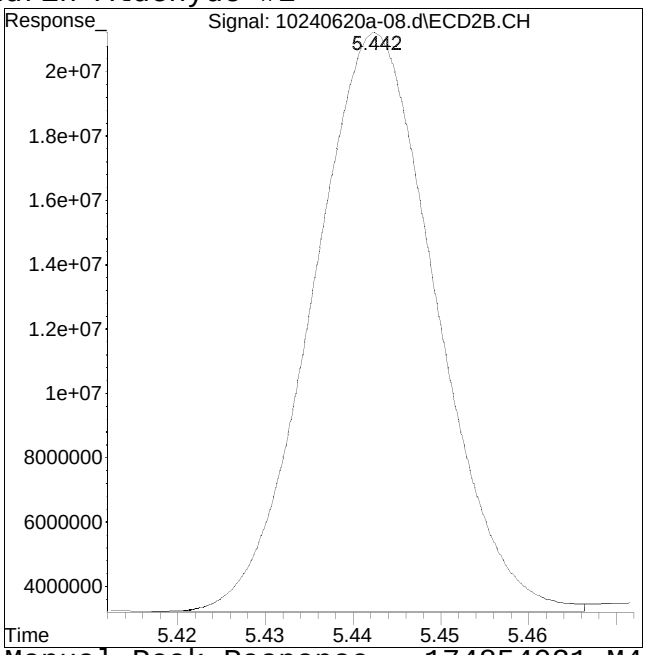
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 174726157



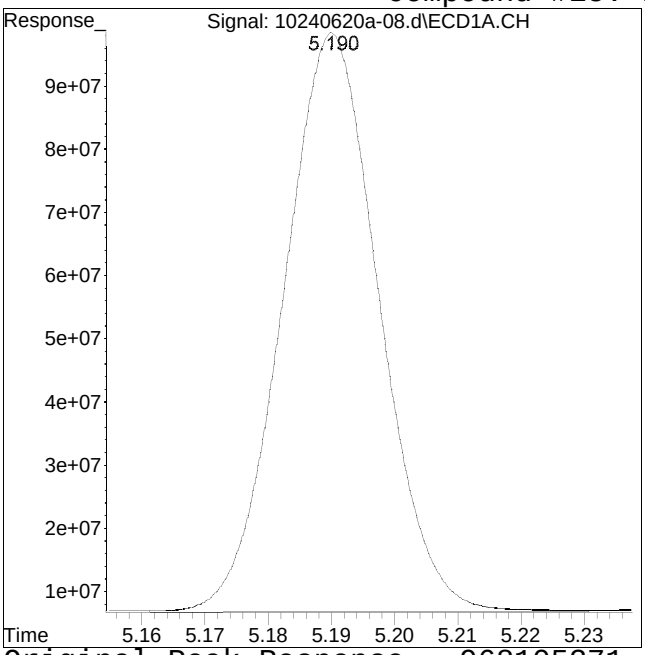
Manual Peak Response = 174854021 M4

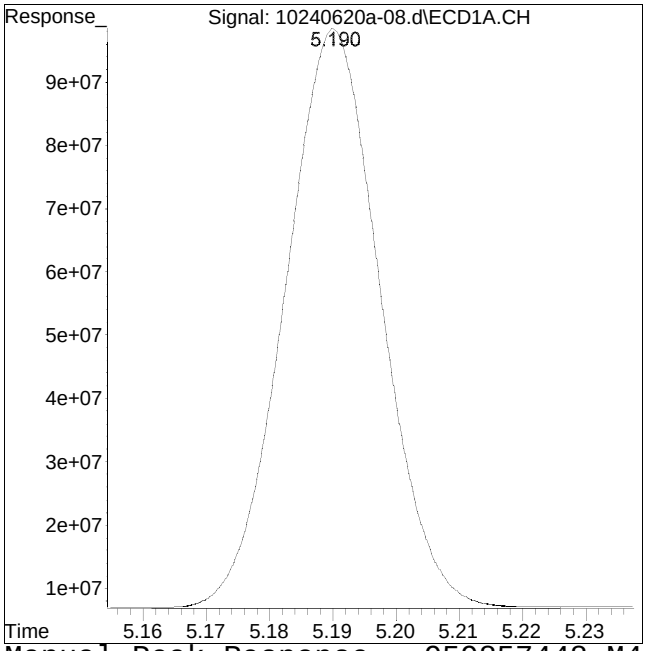
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #25: Endosulfan Sulfate



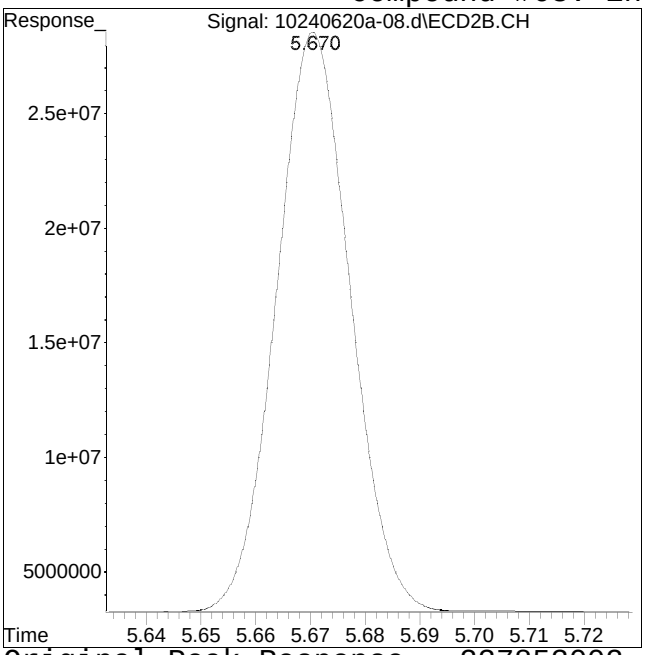


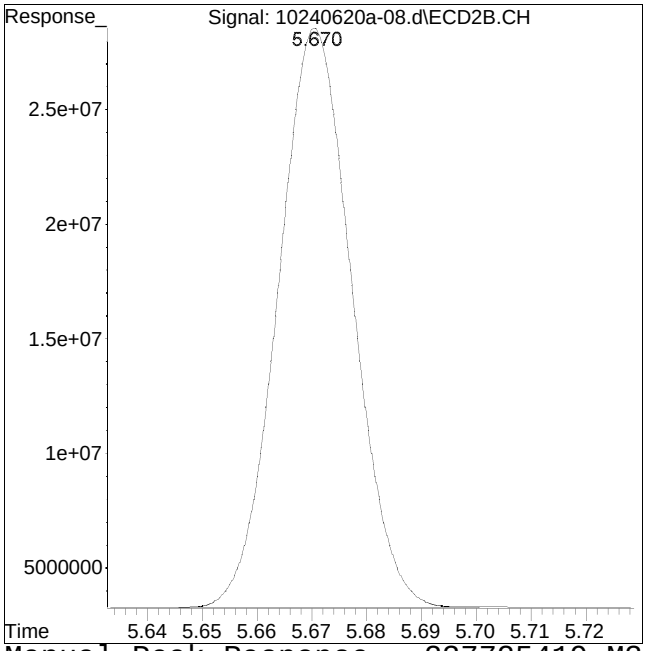
Original Peak Response = 968105371 Manual Peak Response = 959857448 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #63: Endosulfan Sulfate #2



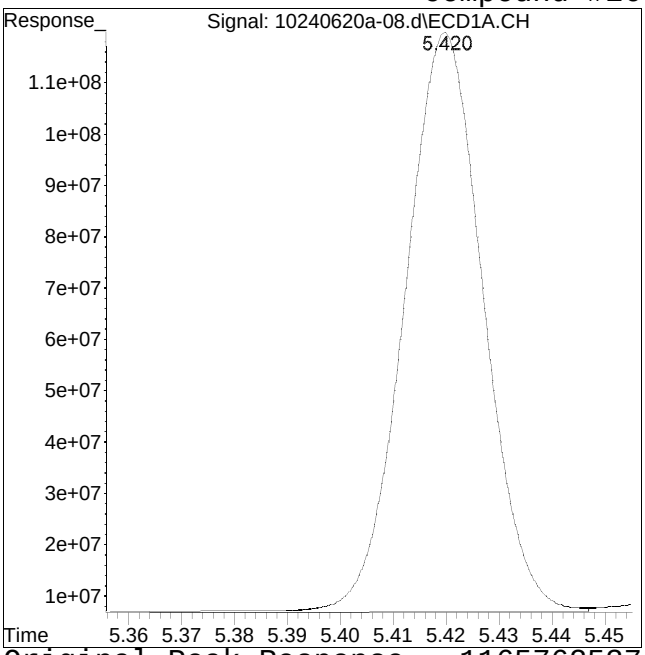


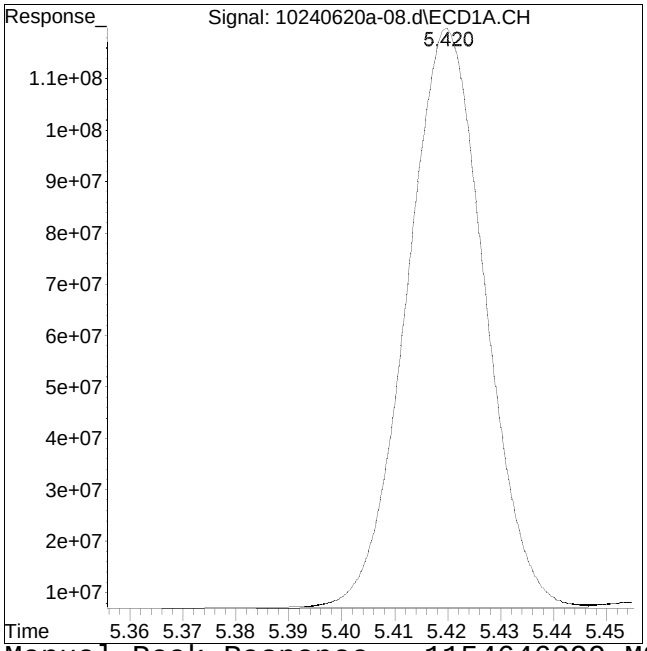
Original Peak Response = 237853002 Manual Peak Response = 237725419 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #26: Endrin Ketone





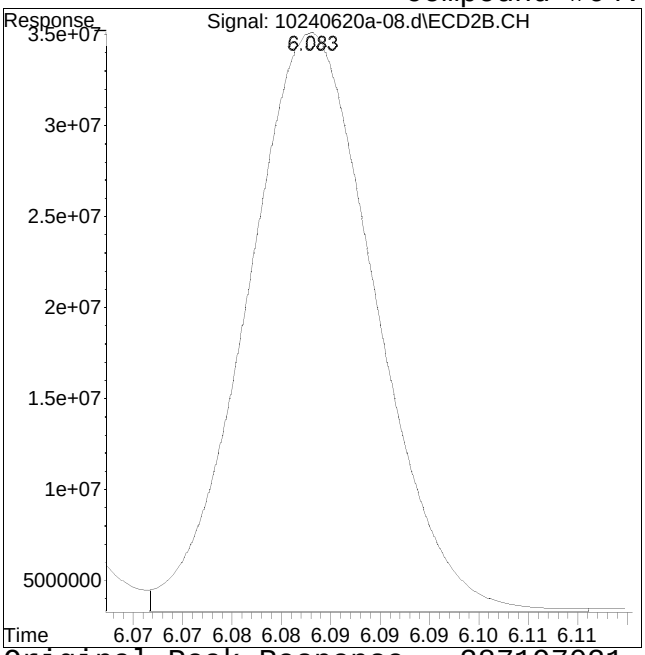
Original Peak Response = 1165762537 Manual Peak Response = 1154646099 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

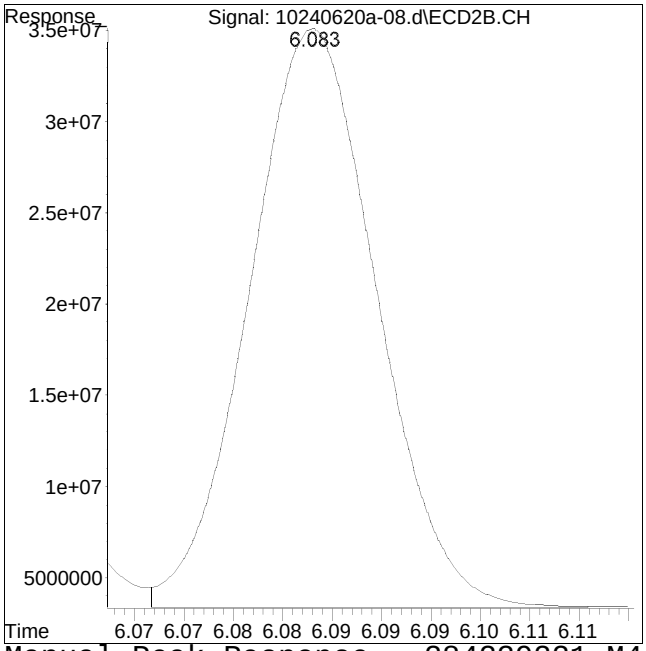
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-08.d
Date Inj'd : 6/20/2024 8:07
Sample : WG1936774-2,42,,6774

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:23 am

Compound #64: Endrin Ketone #2



Original Peak Response = 287197021



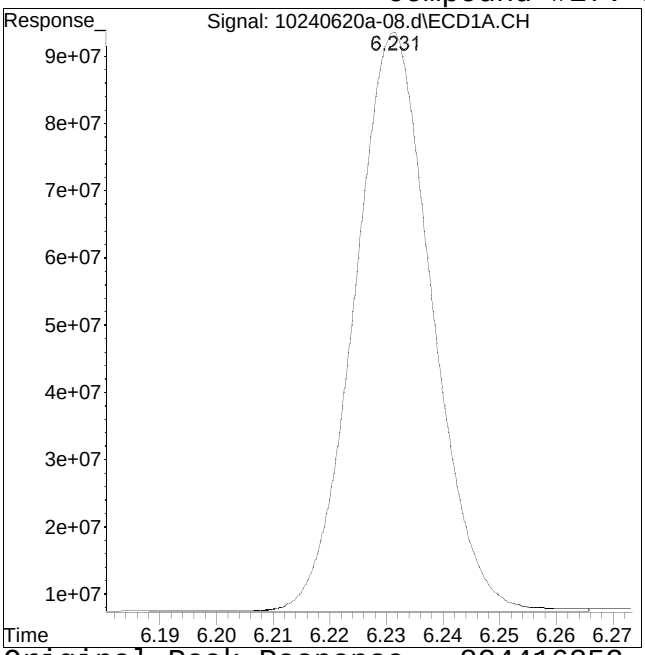
Manual Peak Response = 284239221 M4

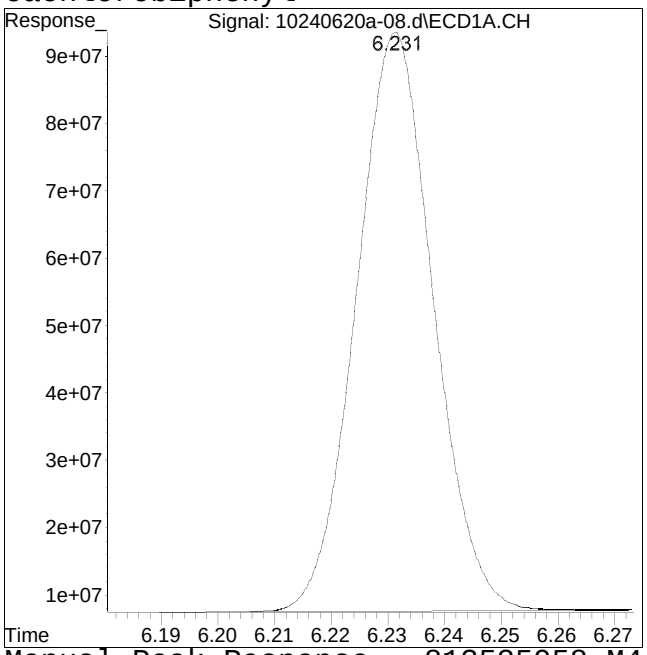
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #27: Decachlorobiphenyl



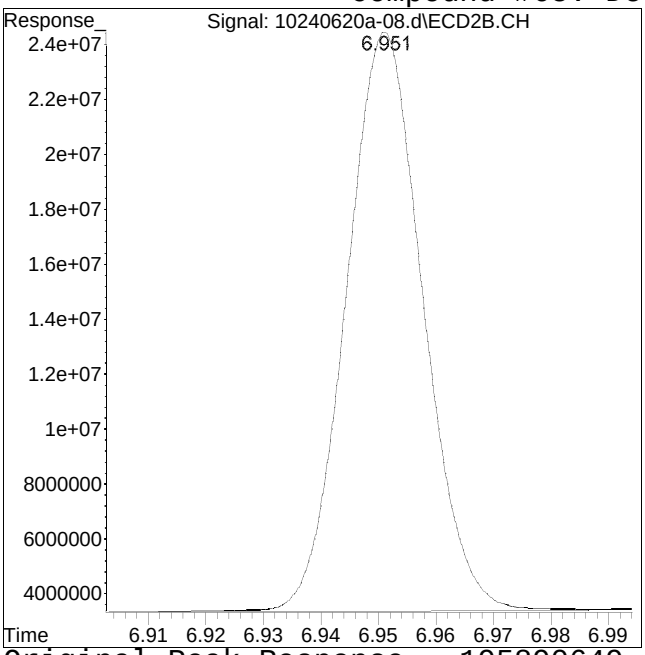


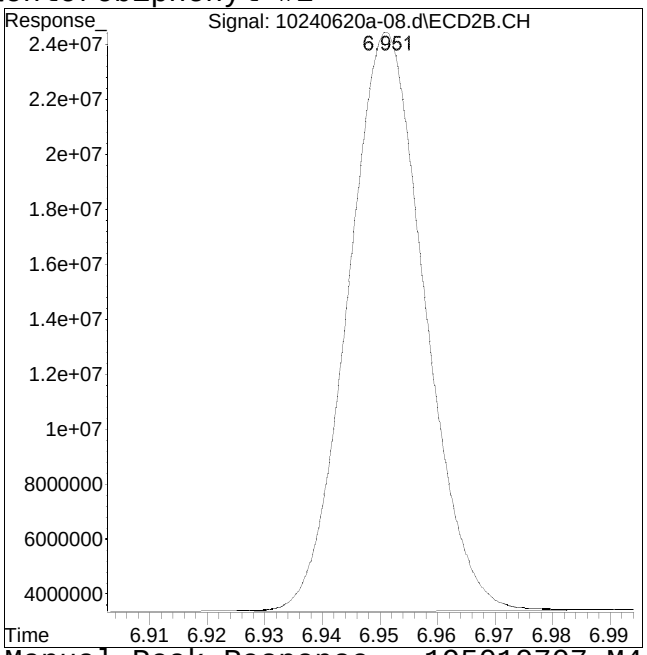
Original Peak Response = 824416352 Manual Peak Response = 813535958 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-08.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:07 Instrument : Pest 10
Sample : WG1936774-2,42,,6774 Quant Date : 6/20/2024 9:23 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 195890649 Manual Peak Response = 195010707 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:18
Operator : PEST10:mmg
Sample : WG1936774-3,42,, 6774 (Sig #1); WG1936776-3,42,, 6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:55 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.377	525.8E6	145.0E6	25.000	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 113.08%		
	Standard Area 1 : #2 = 137931823				Recovery = 105.10%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.599	1.859	795.1E6	217.2E6	34.837M4	39.844M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 69.67%		79.69%	
27) s	Decachlorobi	6.230	6.948	824.7E6	195.3E6	48.505M4	46.560M3
	Spiked Amount 50.000	Range 30 - 150		Recovery = 97.01%		93.12%	
Target Compounds							
4) t	alpha-BHC	1.905	2.279	1371.3E6	357.8E6	43.172M3	46.094M4
5) t	gamma-BHC (l	2.103	2.566	1265.9E6	330.6E6	42.053	45.342
6) t	beta-BHC	2.157	2.631	531.3E6	146.2E6	44.153M4	45.726
7) t	delta-BHC	2.283	2.899	1161.9E6	305.3E6	39.118M4	41.703M3
8) t	Heptachlor	2.441	2.965	1259.6E6	316.3E6	44.056M4	43.691M3
9) t	Aldrin	2.678	3.286	1134.3E6	289.8E6	42.066M4	43.941M4
12) t	Heptachlor E	3.213	3.905	1133.2E6	286.0E6	44.119M4	43.390
13) t	gamma-Chlord	3.335	4.126	1150.2E6	295.2E6	48.951M4	50.339
14) t	alpha-Chlord	3.467	4.297	1113.6E6	289.7E6	41.722M4	43.920M4
15) t	4,4'-DDE	3.564	4.494	1117.1E6	280.5E6	44.194M3	45.998M4
16) t	Endosulfan I	3.602	4.357	1050.8E6	273.5E6	42.966M3	44.581M4
17) t	Dieldrin	3.858	4.649	1228.6E6	308.2E6	48.676M4	50.199M3
18) t	Endrin	4.111	4.948	1170.2E6	292.4E6	45.139M4	46.417
19) t	4,4'-DDD	4.226	5.069	995.2E6	245.7E6	48.434M4	50.097M4
20) t	Endosulfan I	4.359	5.145	1020.1E6	257.9E6	45.589M4	46.752M4
21) t	4,4'-DDT	4.528	5.346	1048.4E6	262.4E6	46.101M4	47.148M3
22) t	Endrin Aldeh	4.788	5.442	649.7E6	164.2E6	38.046M4	36.764M4

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:18
Operator : PEST10:mmg
Sample : WG1936774-3,42,, 6774 (Sig #1); WG1936776-3,42,, 6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:55 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.029	5.911	614.6E6	147.5E6	58.621M4	52.863
25) t Endosulfan S	5.188	5.671	967.2E6	239.8E6	43.588M4	43.613
26) t Endrin Keton	5.418	6.083	1193.0E6	294.9E6	49.020M4	49.223M3
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

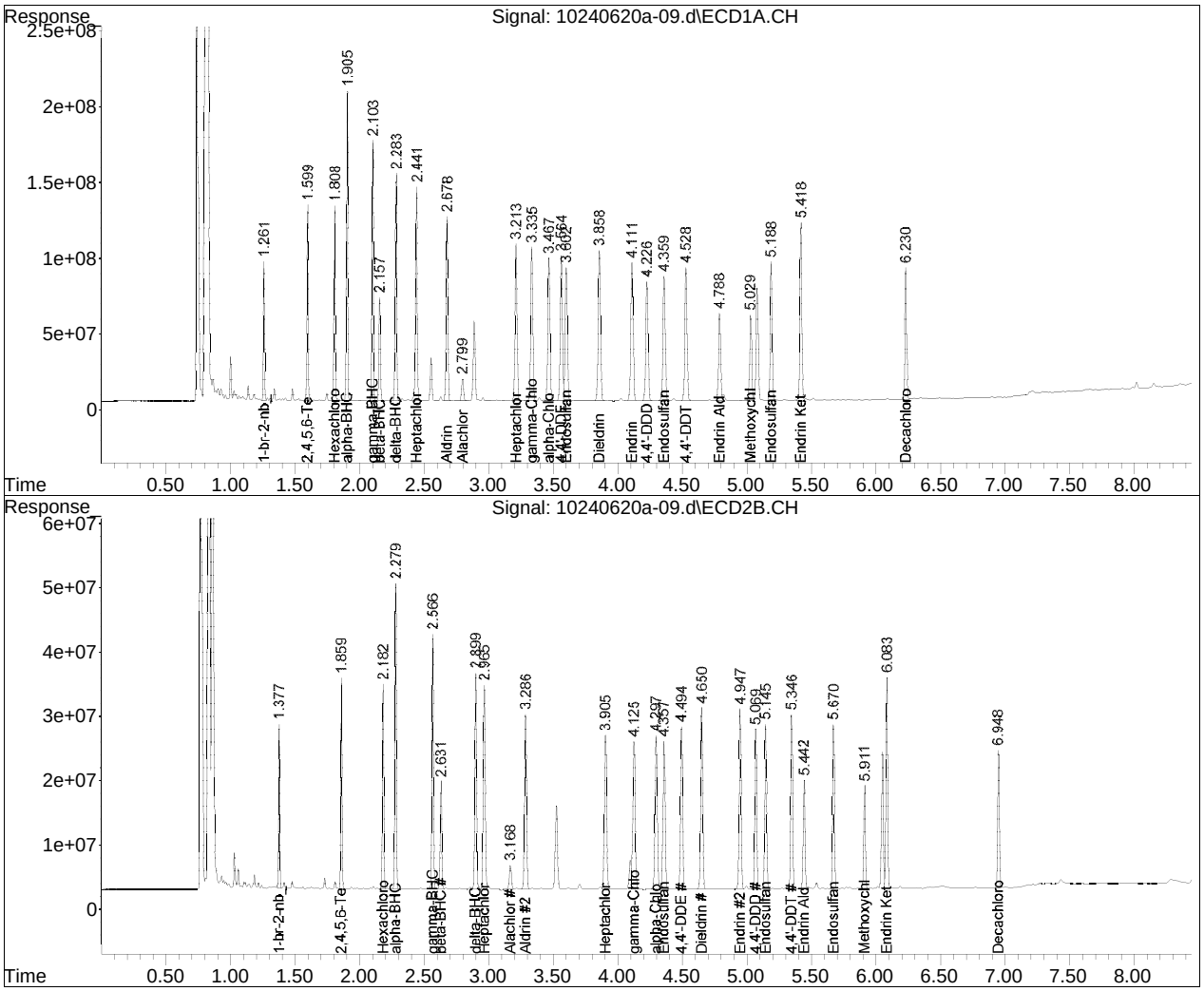
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240620A\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 8:18
Operator : PEST10:mmg
Sample : WG1936774-3,42,, 6774 (Sig #1); WG1936776-3,42,, 6774 (Sig #2)
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:23:55 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

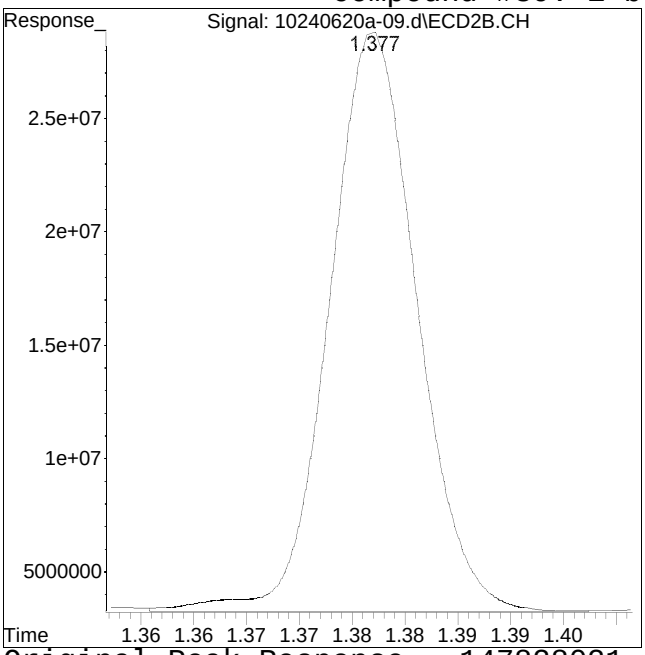
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

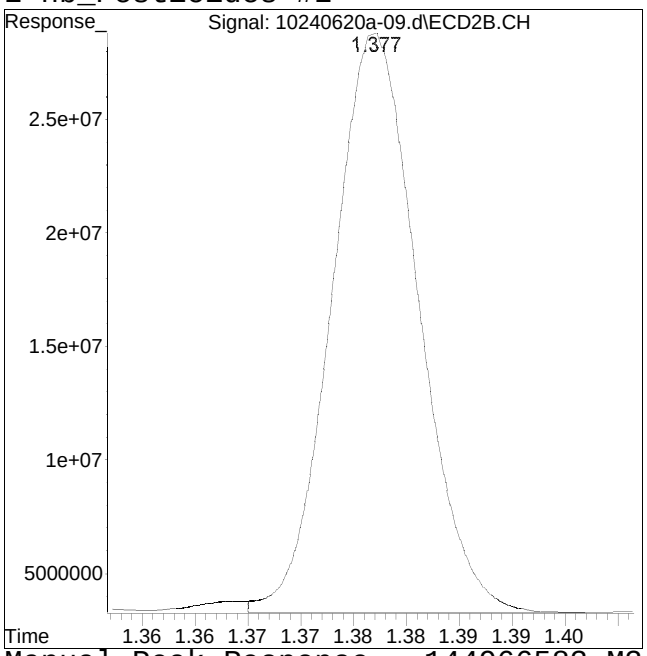


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #39: 1-br-2-nb_Pesticides #2



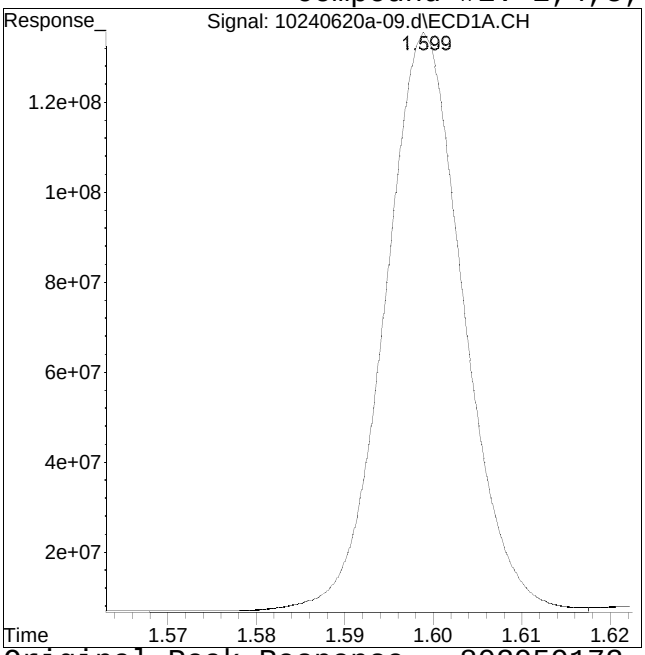


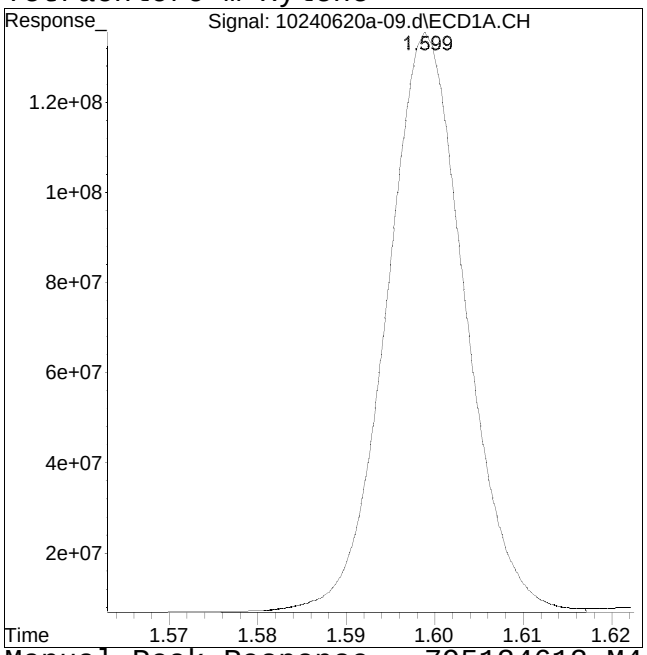
Original Peak Response = 147828021 Manual Peak Response = 144966583 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



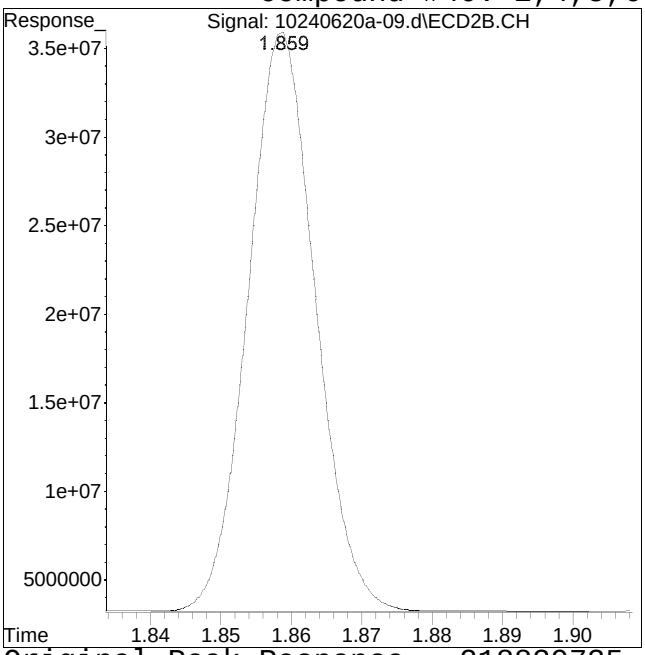


Original Peak Response = 802959173 Manual Peak Response = 795124612 M4
M4 = Poor automated baseline construction.

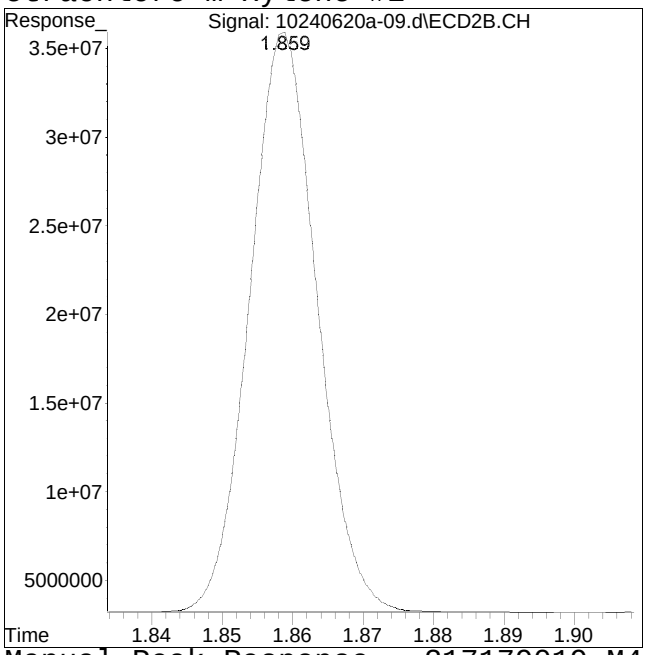
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 218839735



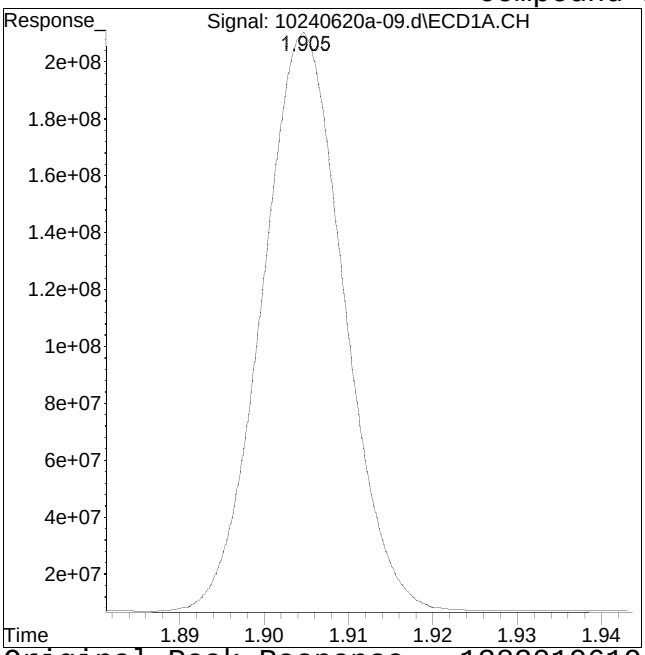
Manual Peak Response = 217179019 M4

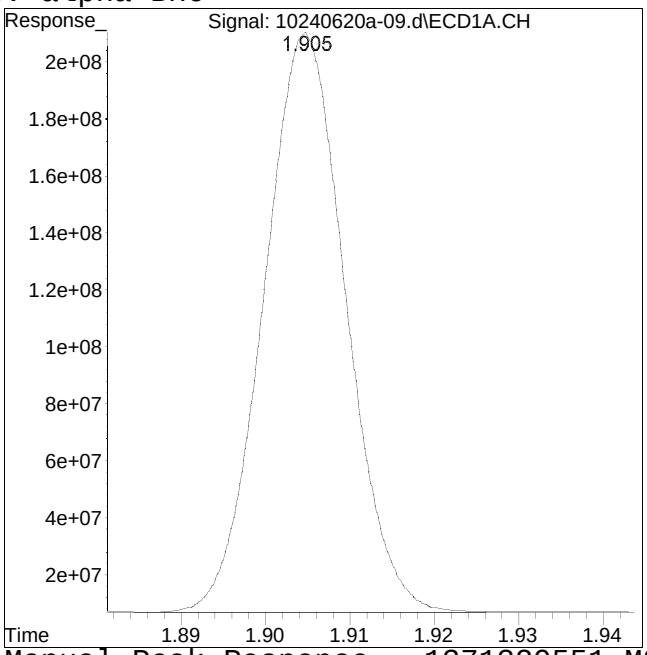
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #4: alpha-BHC



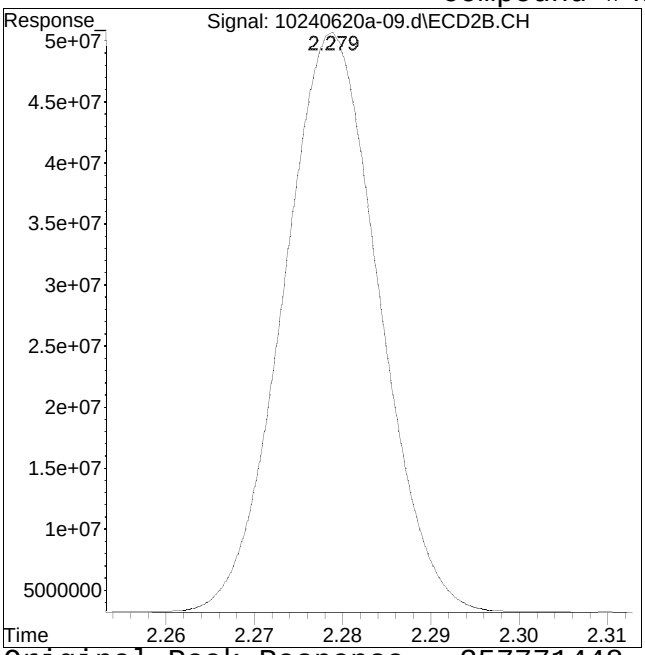


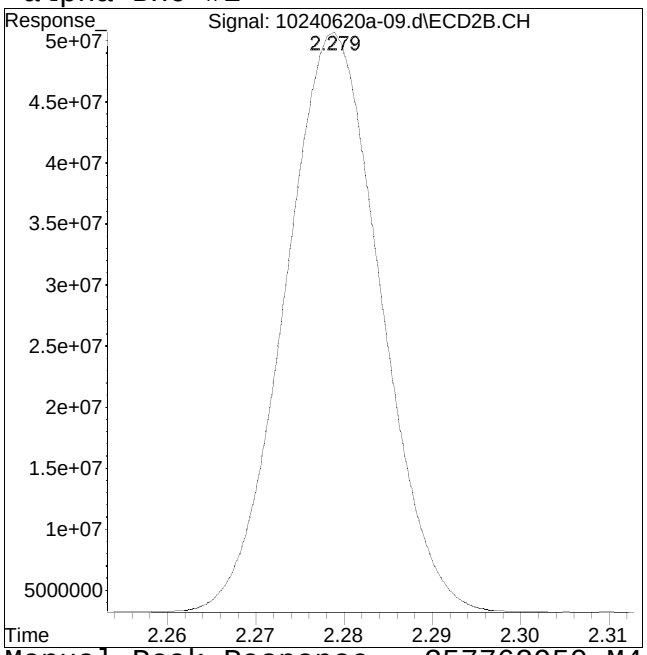
Original Peak Response = 1383019619 Manual Peak Response = 1371329551 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #42: alpha-BHC #2



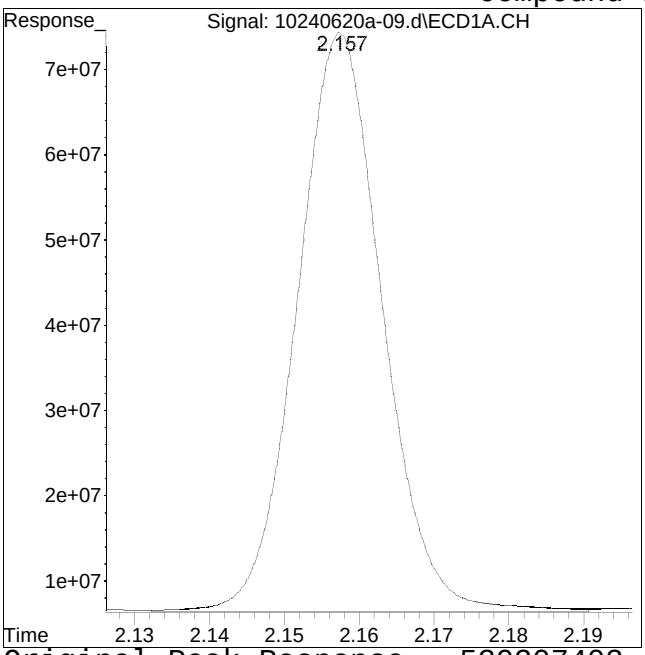


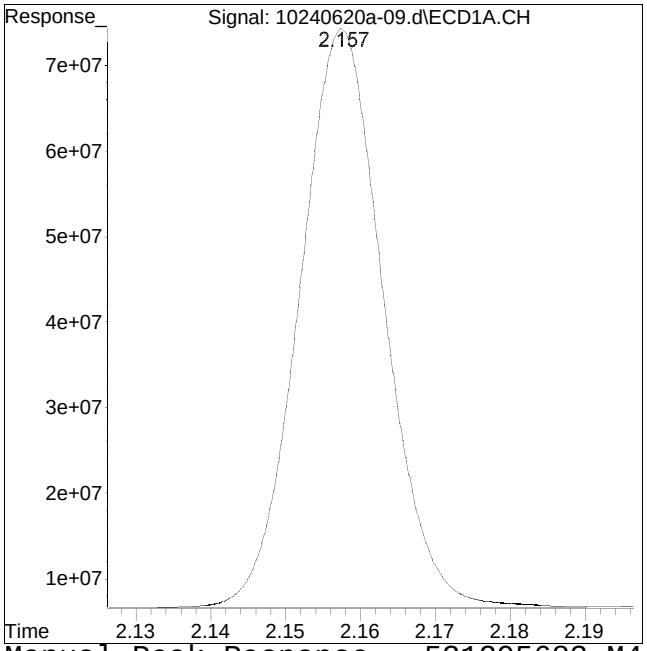
Original Peak Response = 357771448 Manual Peak Response = 357762950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #6: beta-BHC



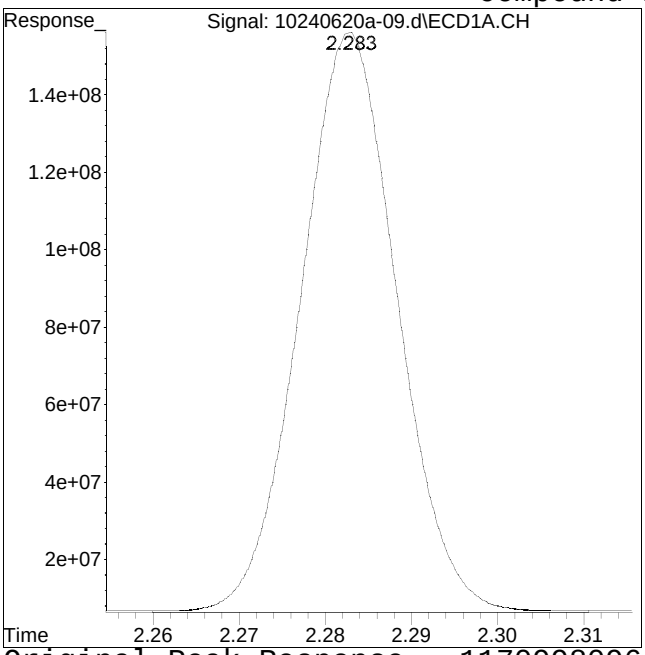


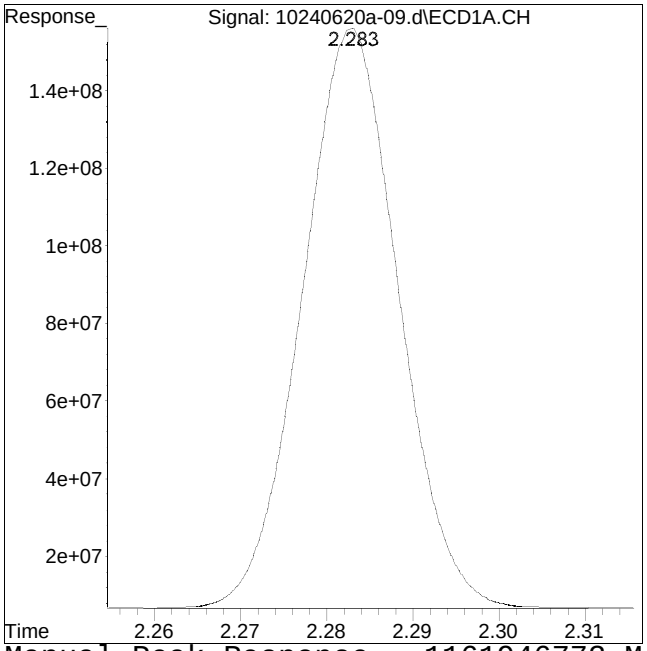
Original Peak Response = 539307403 Manual Peak Response = 531295683 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #7: delta-BHC



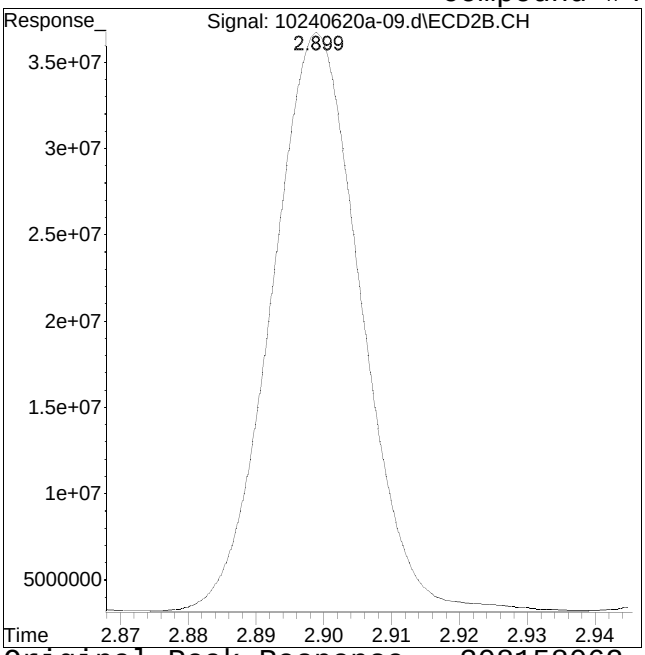


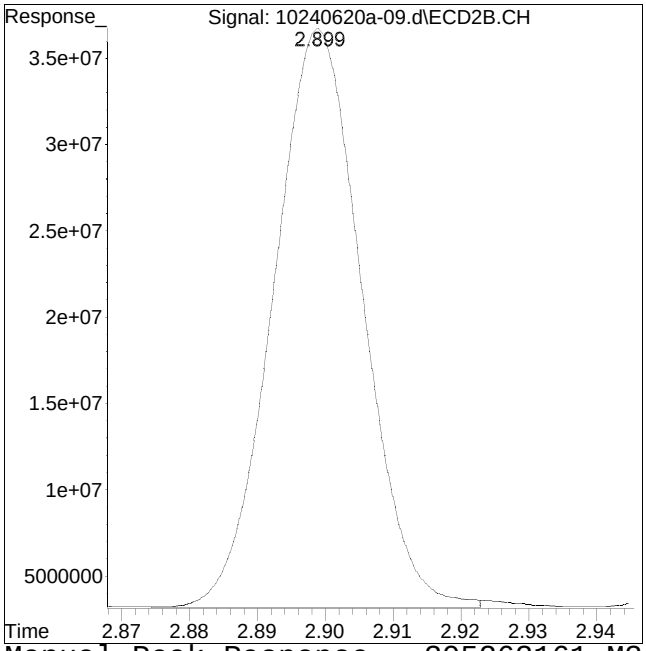
Original Peak Response = 1170998096 Manual Peak Response = 1161946773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #45: delta-BHC #2



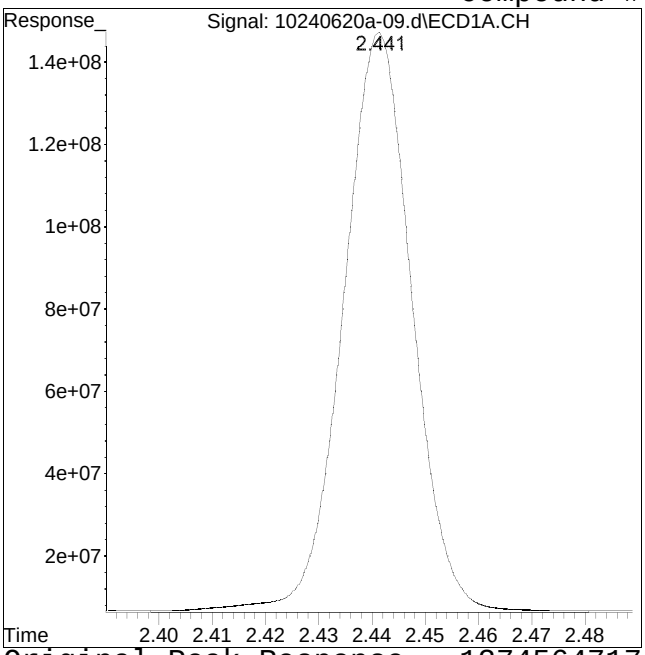


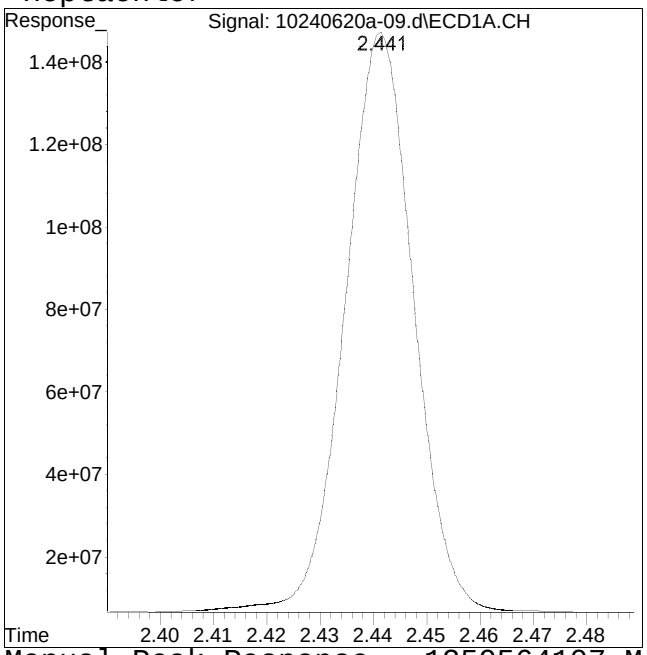
Original Peak Response = 308158062 Manual Peak Response = 305263161 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #8: Heptachlor



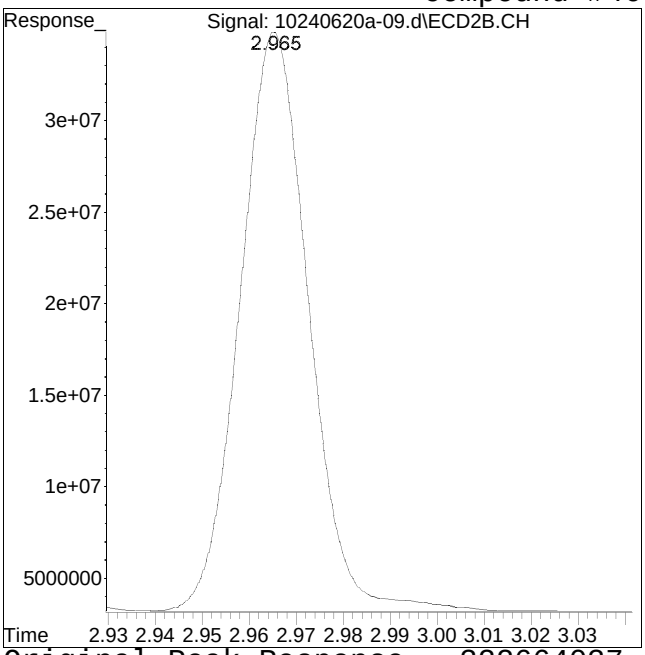


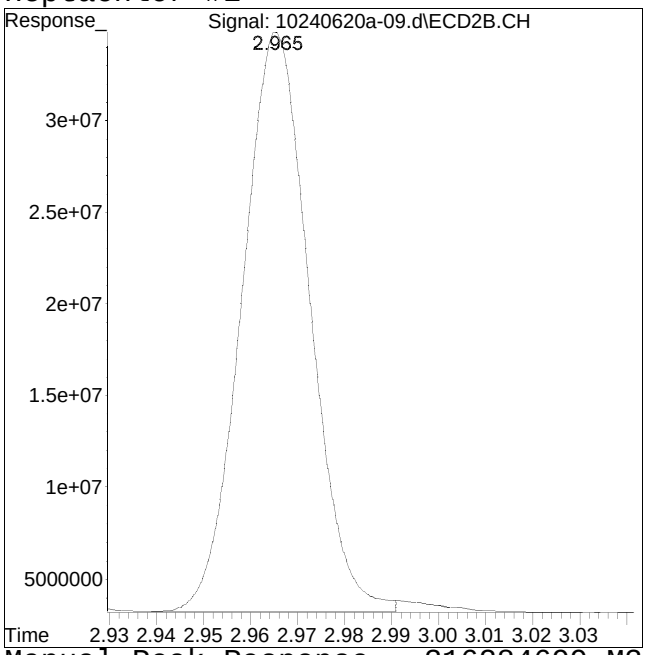
Original Peak Response = 1274564717 Manual Peak Response = 1259564107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #46: Heptachlor #2



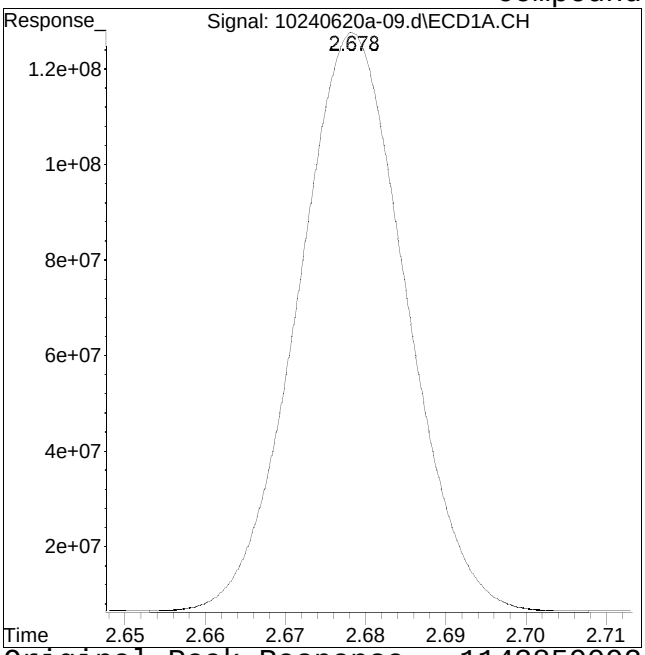


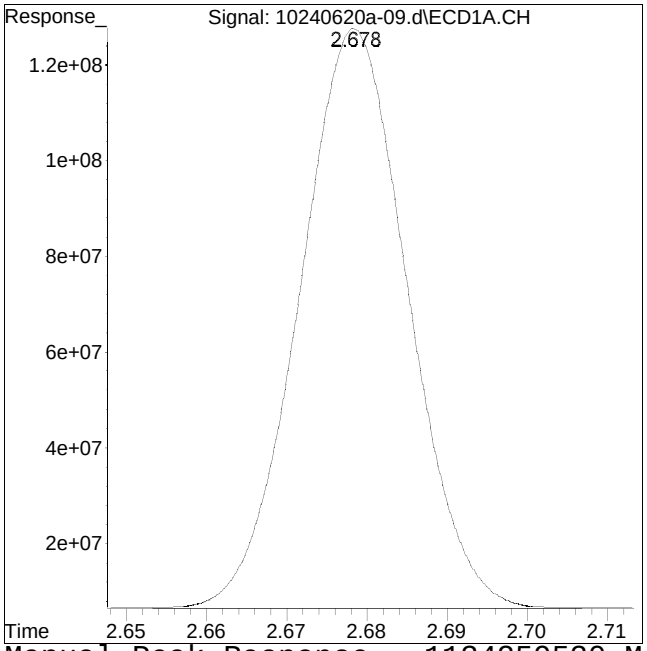
Original Peak Response = 322664037 Manual Peak Response = 316284699 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #9: Aldrin



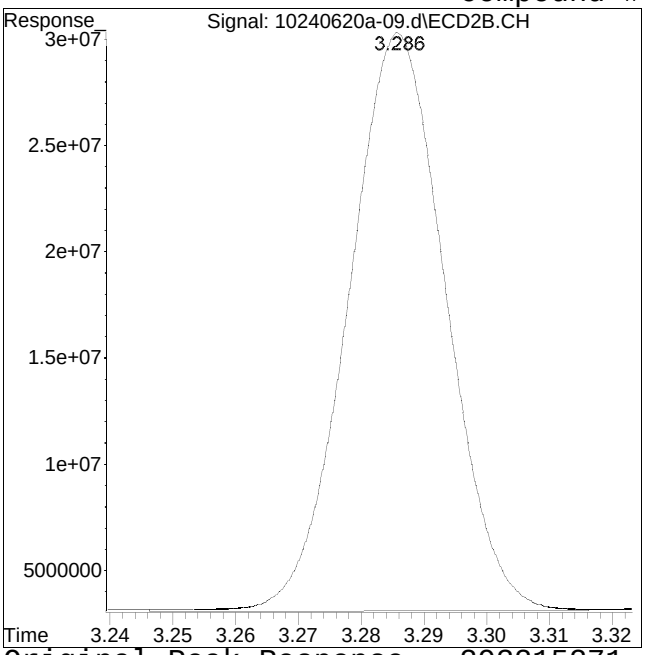


Original Peak Response = 1143859092 Manual Peak Response = 1134259530 M4
M4 = Poor automated baseline construction.

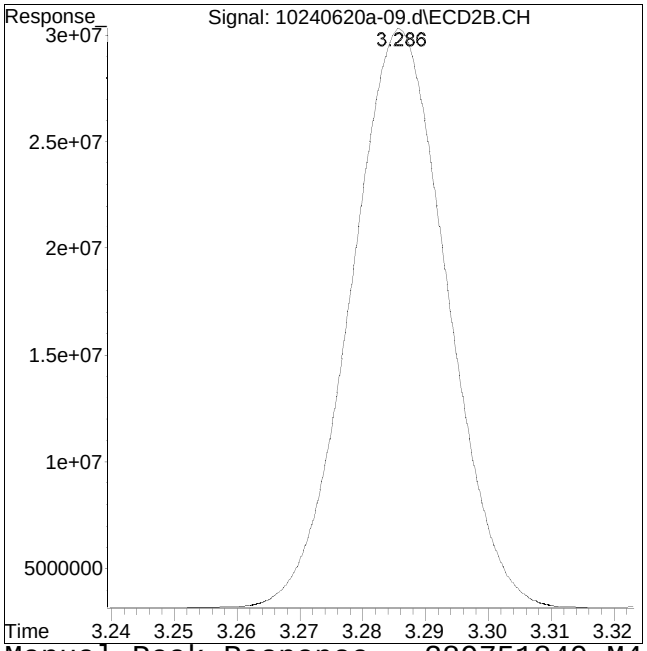
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #47: Aldrin #2



Original Peak Response = 293215271



Manual Peak Response = 289751840 M4

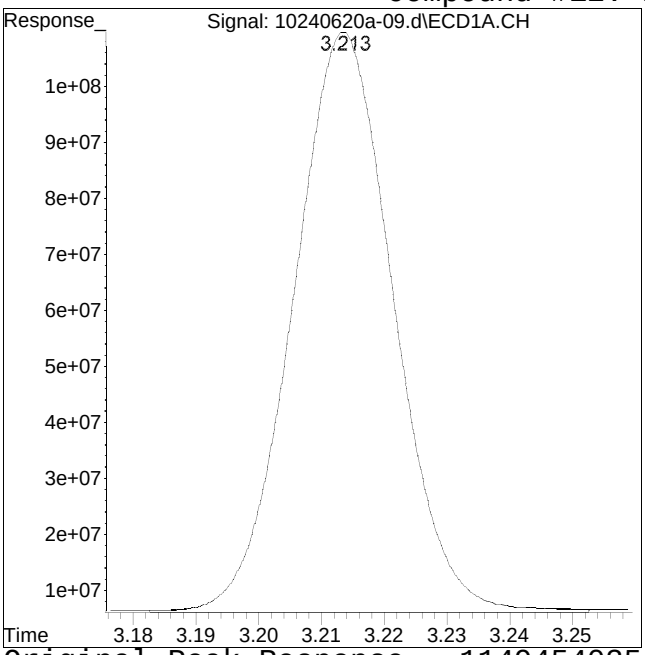
M4 = Poor automated baseline construction.

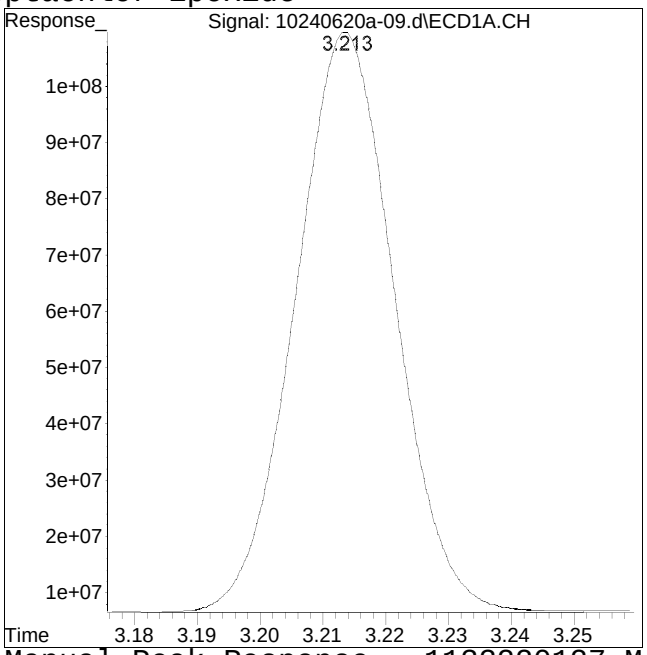
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-09.d
Date Inj'd : 6/20/2024 8:18
Sample : WG1936774-3,42,, 6774

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:23 am

Compound #12: Heptachlor Epoxide



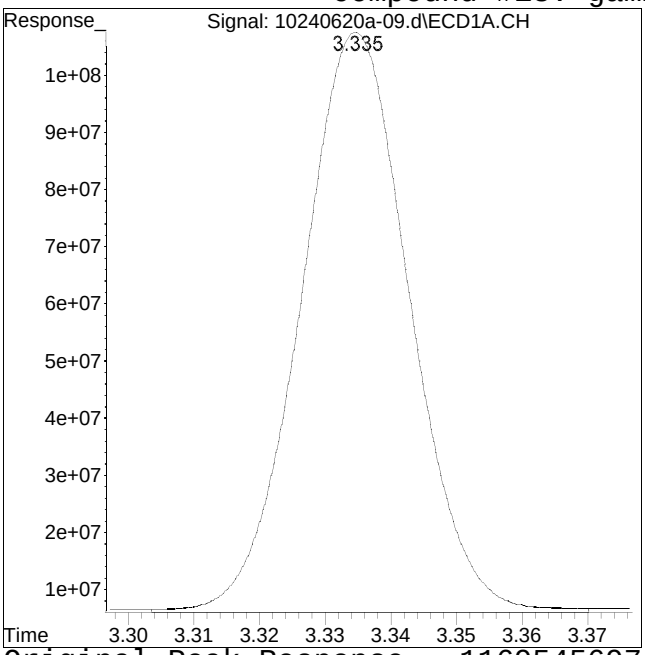


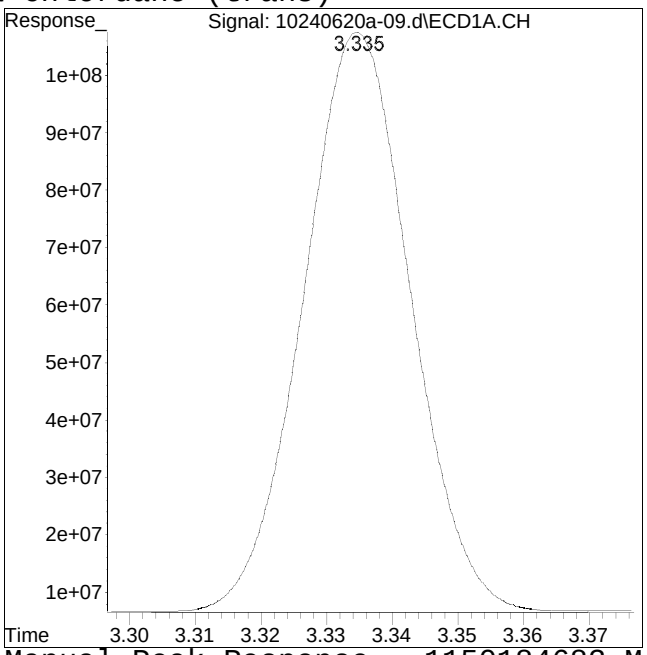
Original Peak Response = 1149454035 Manual Peak Response = 1133220127 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #13: gamma-Chlordane (trans)



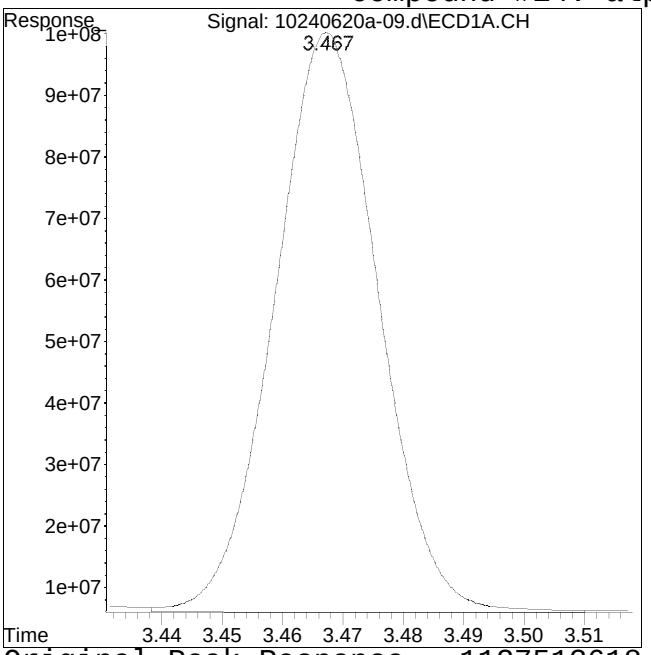


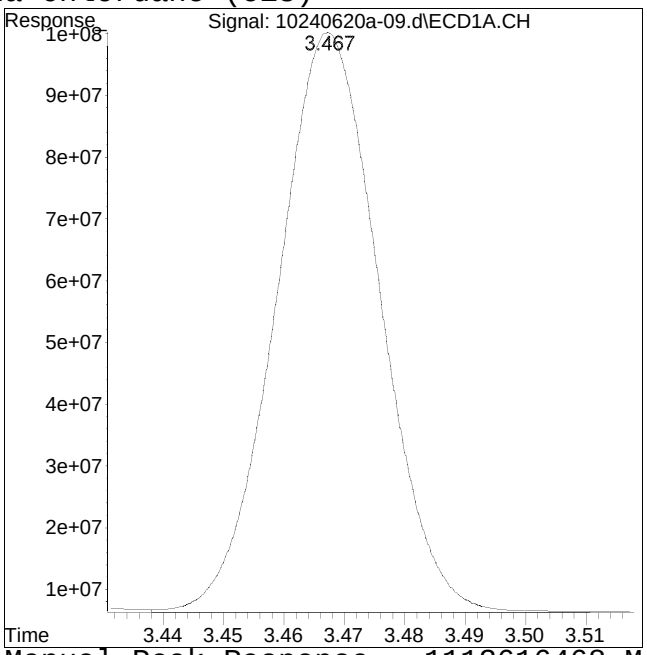
Original Peak Response = 1169545697 Manual Peak Response = 1150184683 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #14: alpha-Chlordane (cis)



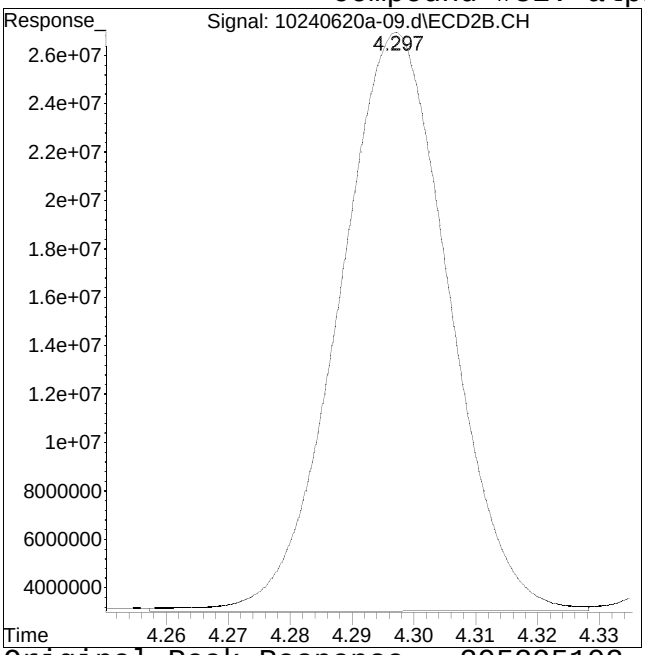


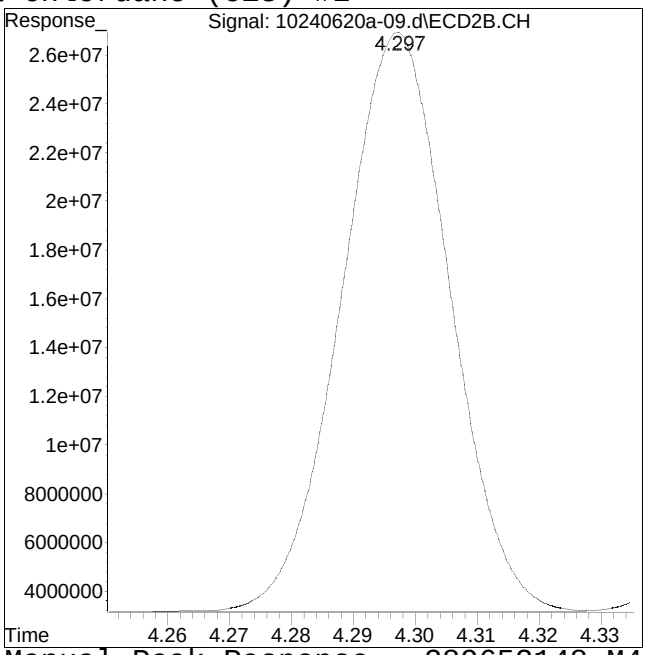
Original Peak Response = 1127513618 Manual Peak Response = 1113616468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #52: alpha-Chlordane (cis) #2



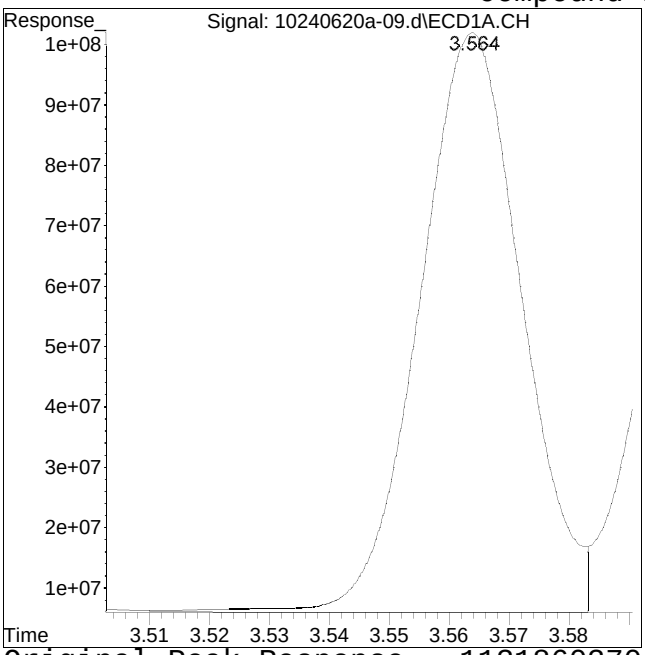


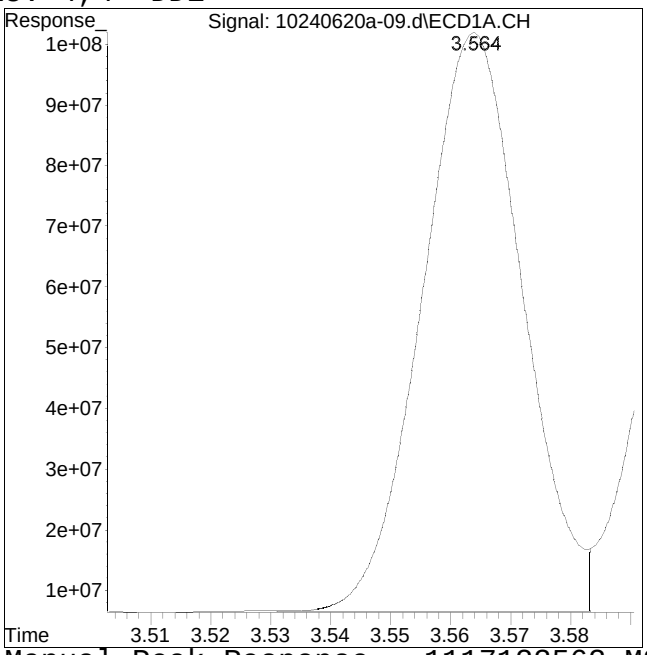
Original Peak Response = 295295102 Manual Peak Response = 289652148 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #15: 4,4'-DDE



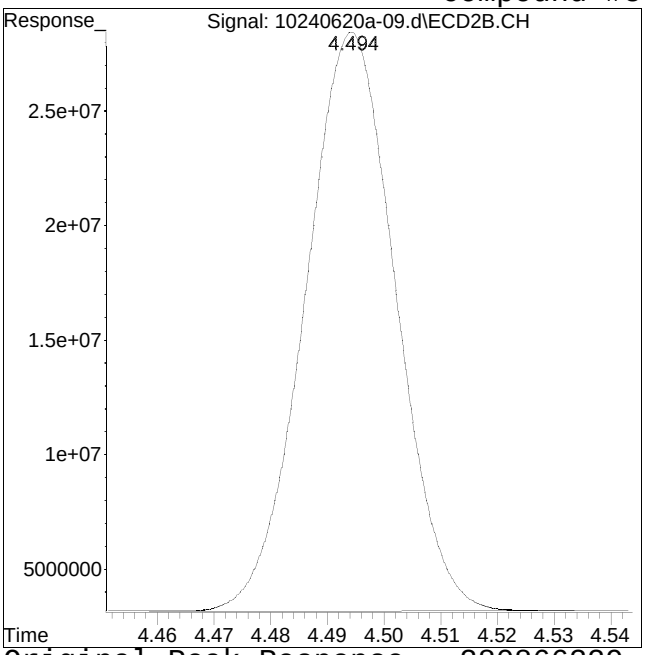


Original Peak Response = 1131860370 Manual Peak Response = 1117123562 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

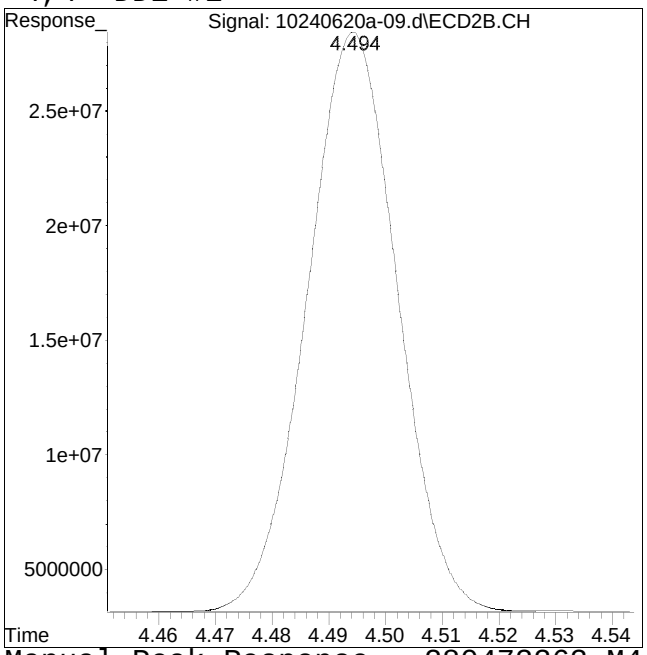
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 280866329



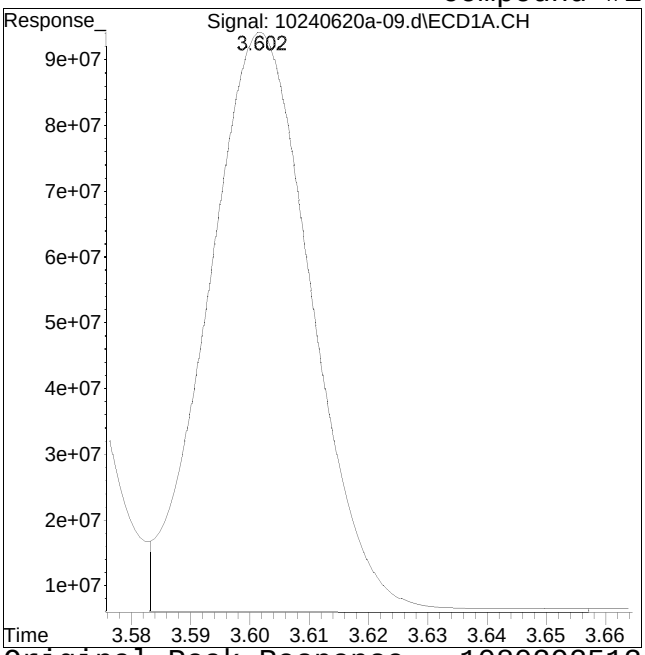
Manual Peak Response = 280473363 M4

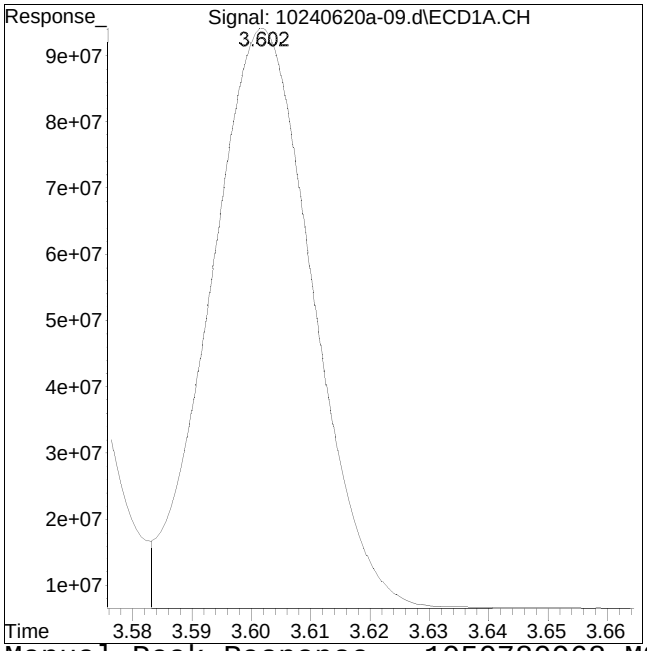
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #16: Endosulfan I



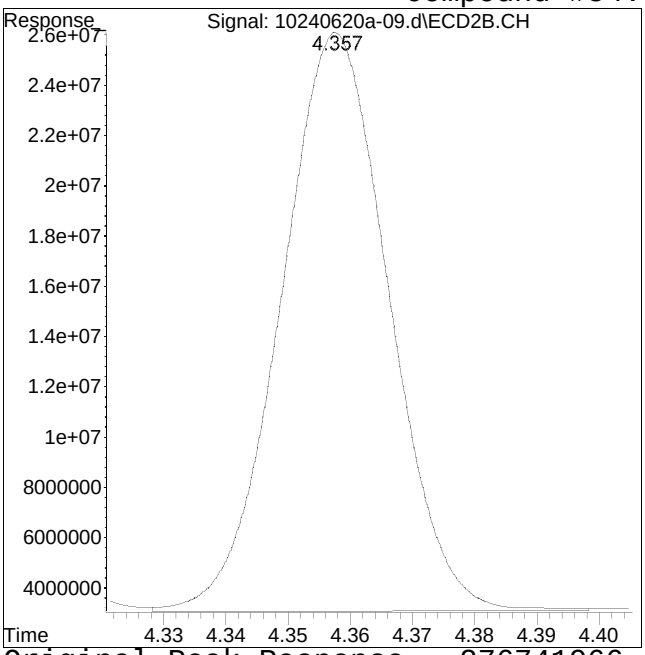


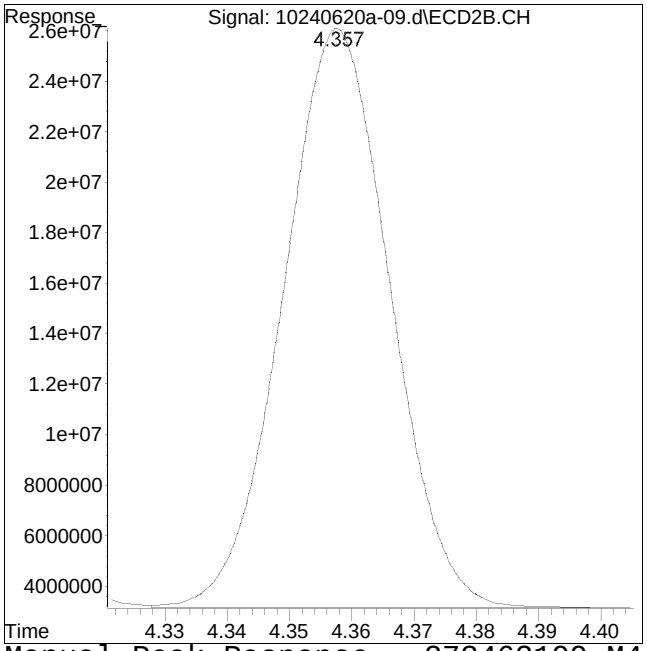
Original Peak Response = 1080292513 Manual Peak Response = 1050780968 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #54: Endosulfan I #2



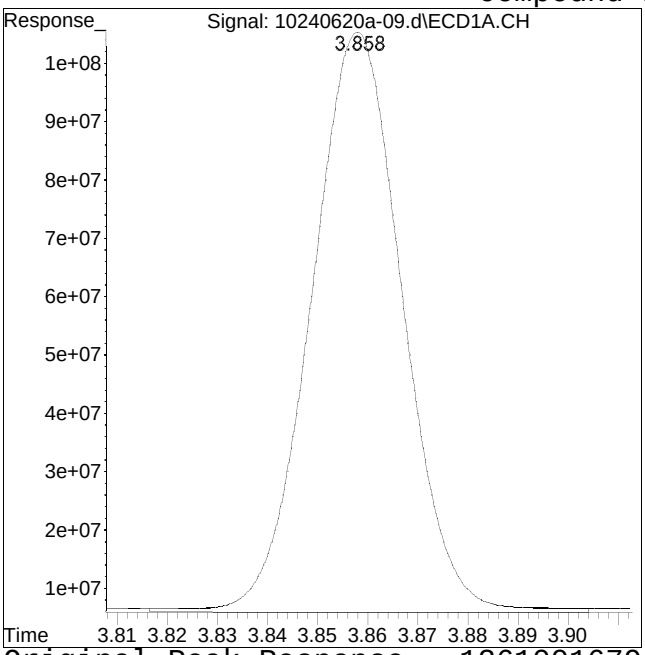


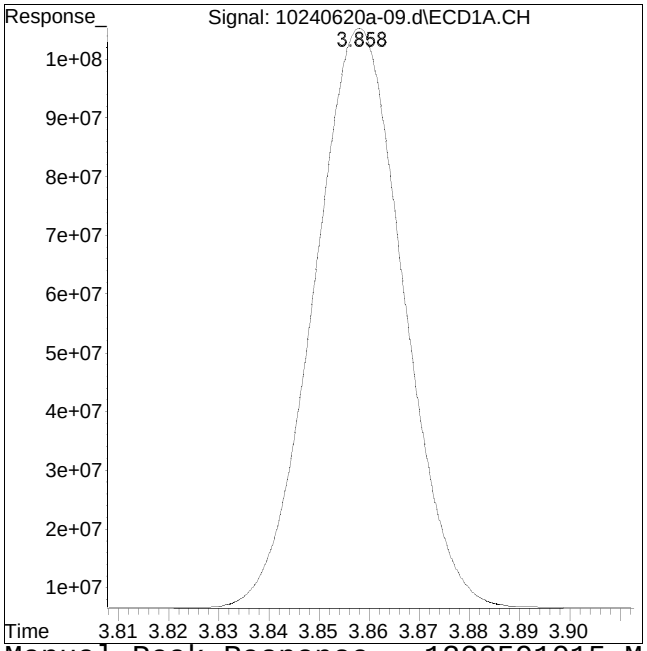
Original Peak Response = 276741966 Manual Peak Response = 273463199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #17: Dieldrin



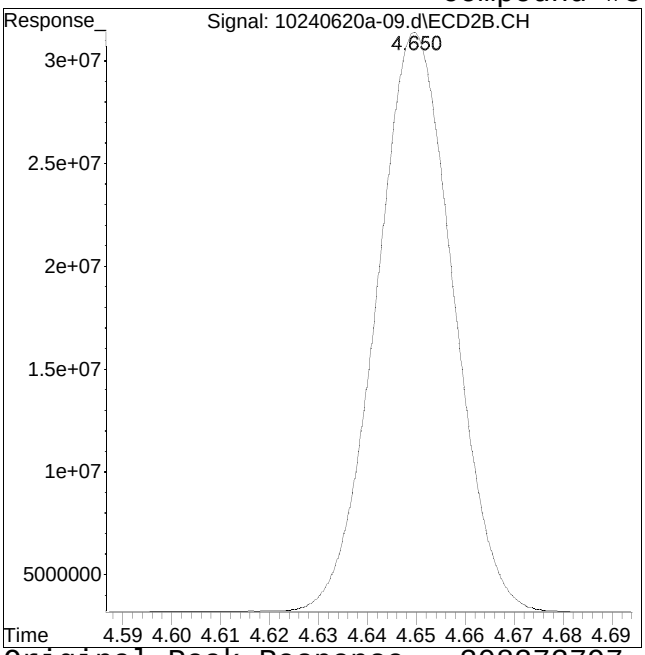


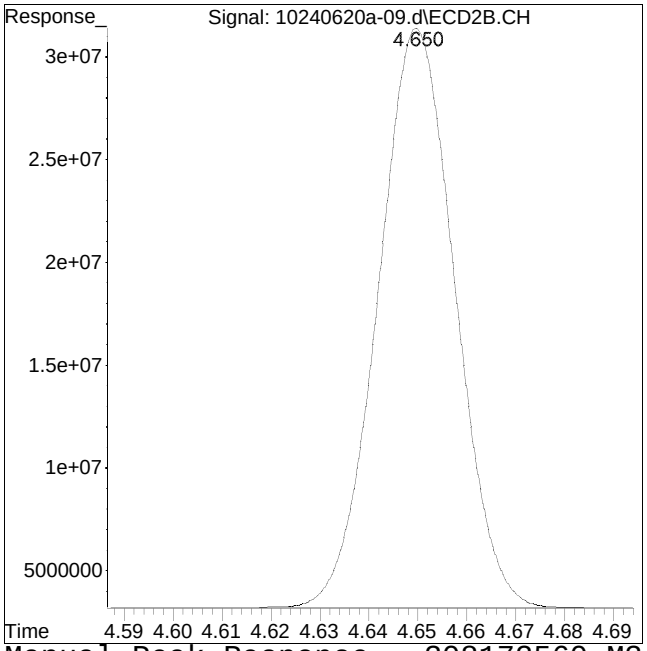
Original Peak Response = 1261001679 Manual Peak Response = 1228591015 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #55: Dieldrin #2



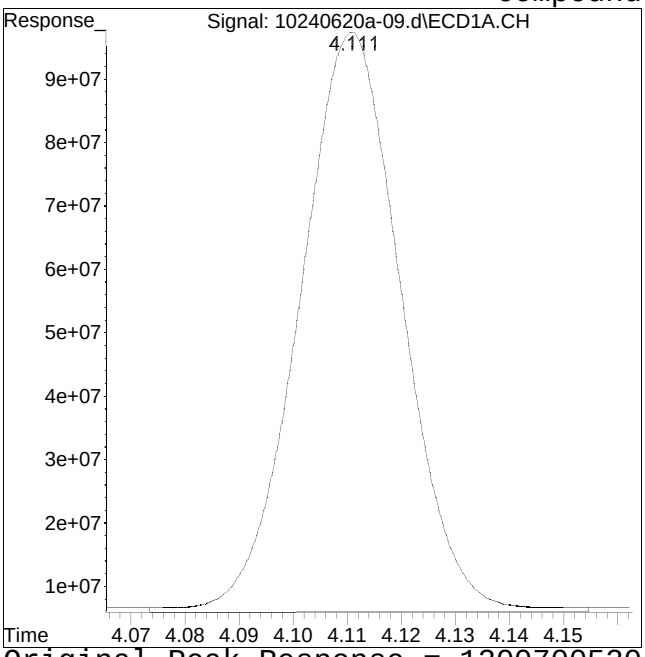


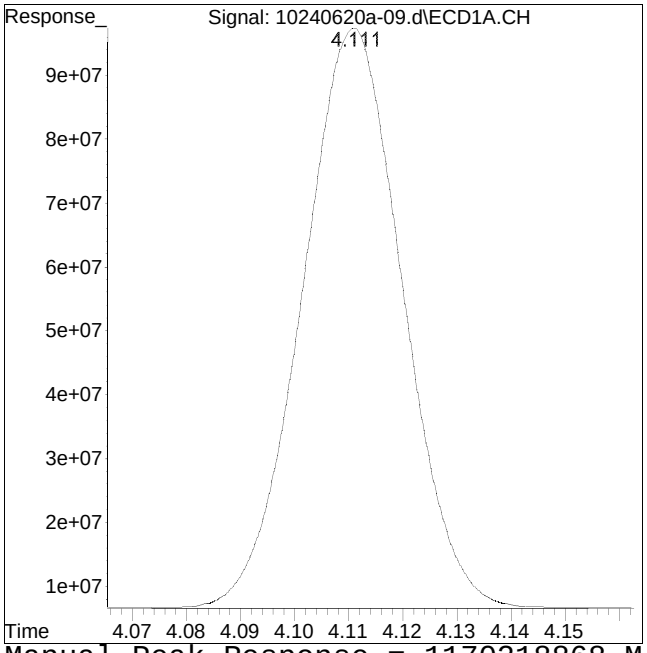
Original Peak Response = 308373797 Manual Peak Response = 308173560 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #18: Endrin



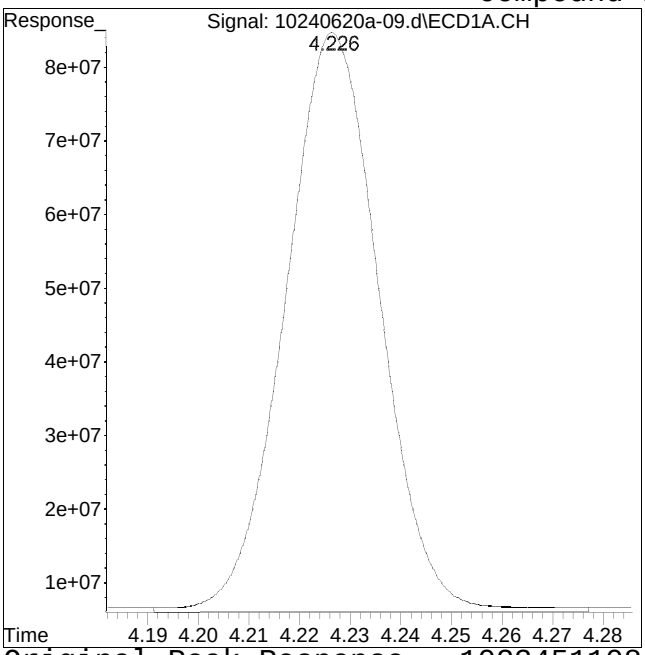


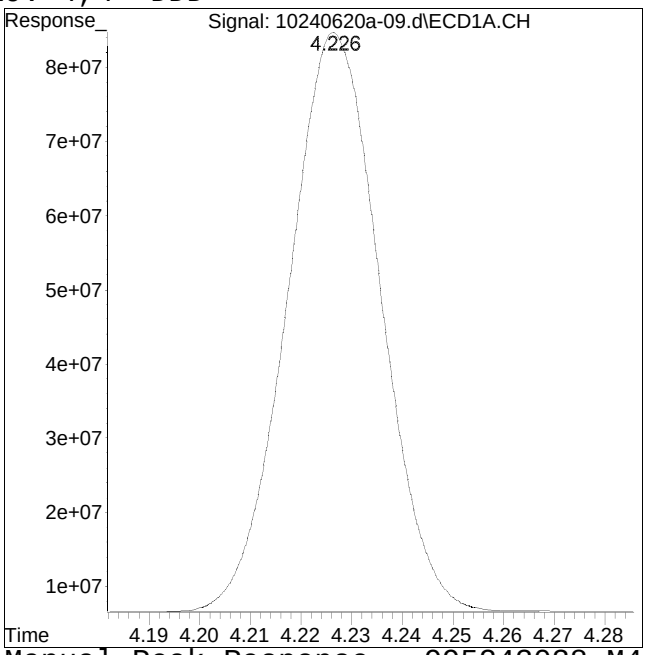
Original Peak Response = 1200700520 Manual Peak Response = 1170218868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #19: 4,4'-DDD



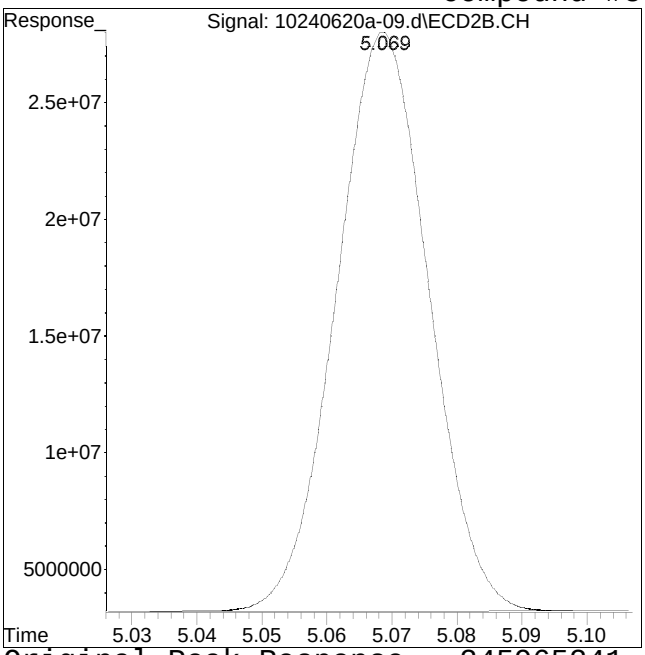


Original Peak Response = 1023451108 Manual Peak Response = 995243038 M4
M4 = Poor automated baseline construction.

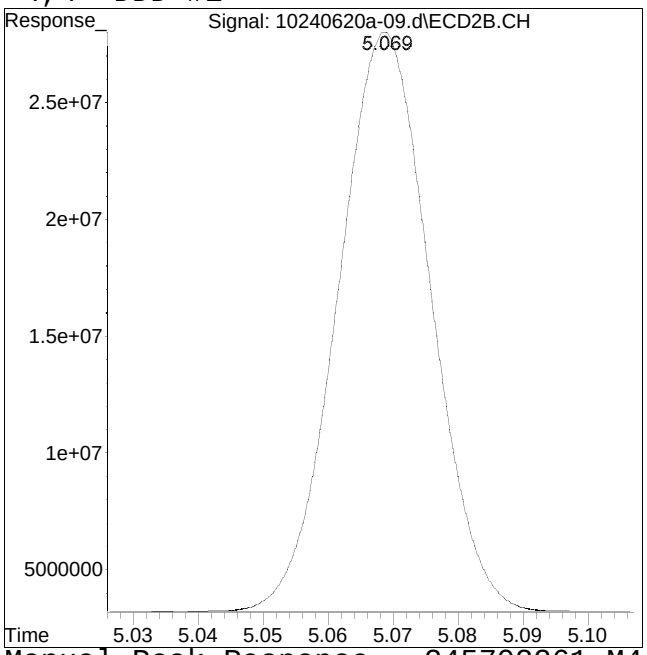
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 245965241



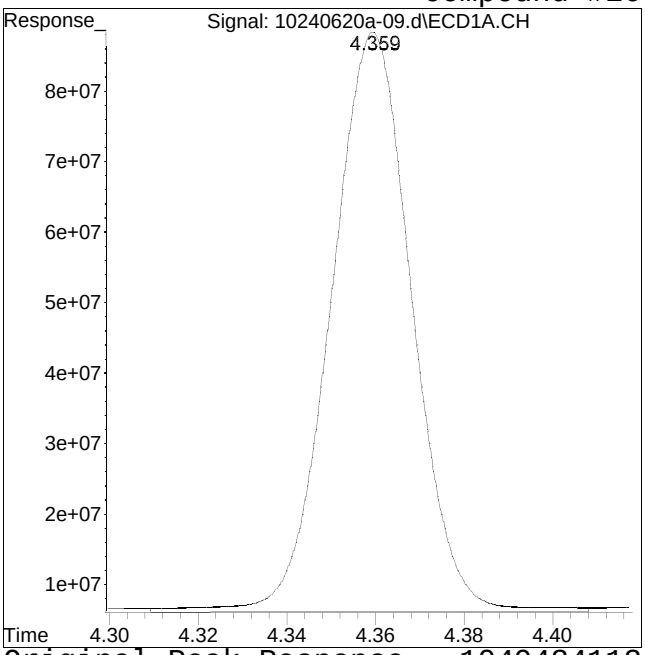
Manual Peak Response = 245702261 M4

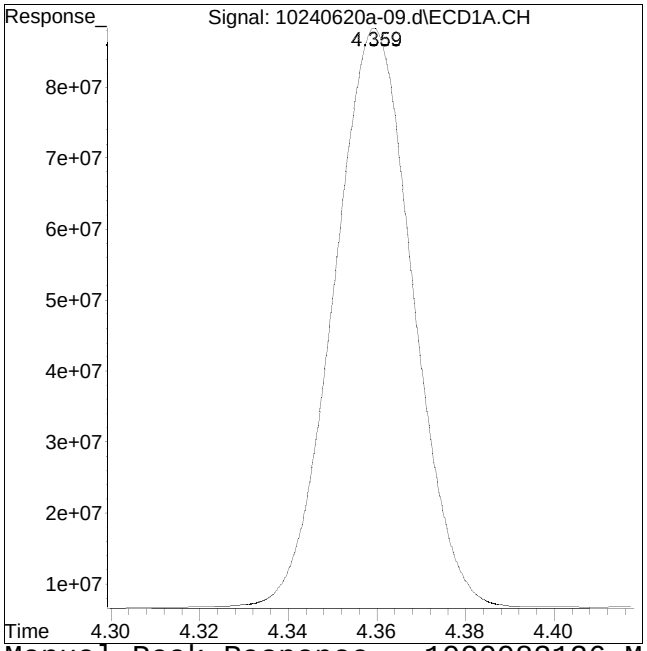
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #20: Endosulfan II



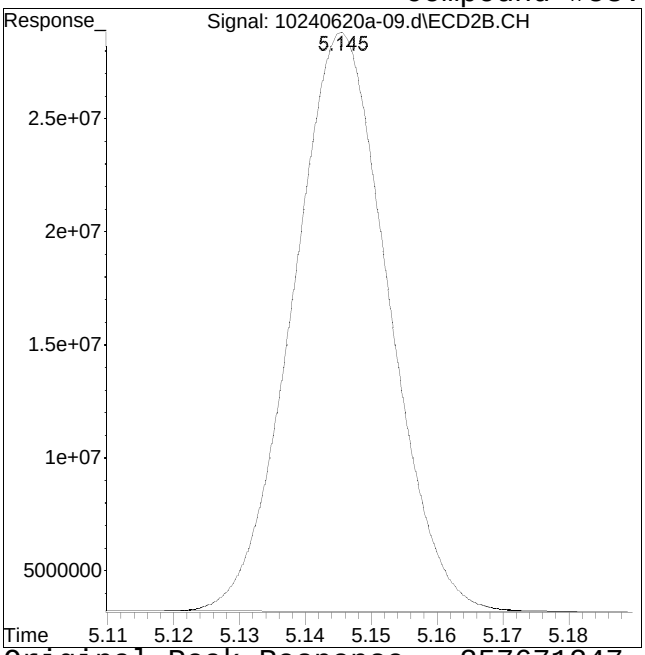


Original Peak Response = 1049434113 Manual Peak Response = 1020083126 M4
M4 = Poor automated baseline construction.

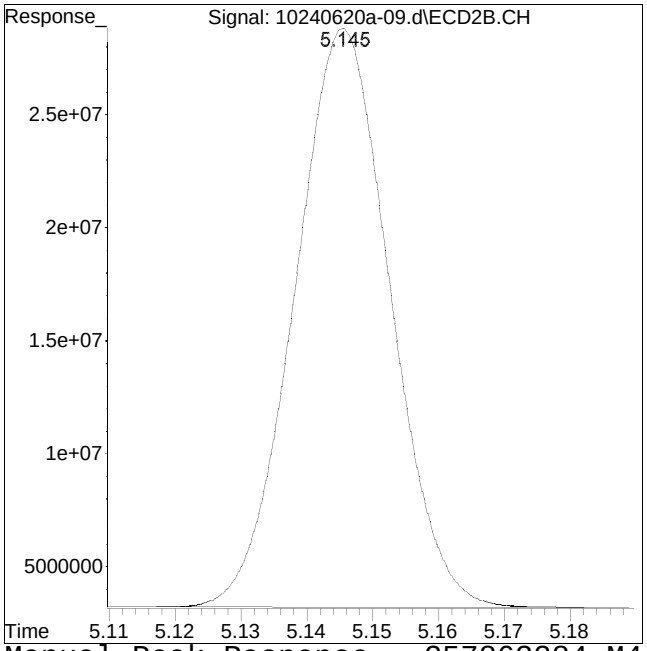
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #58: Endosulfan II #2



Original Peak Response = 257671247



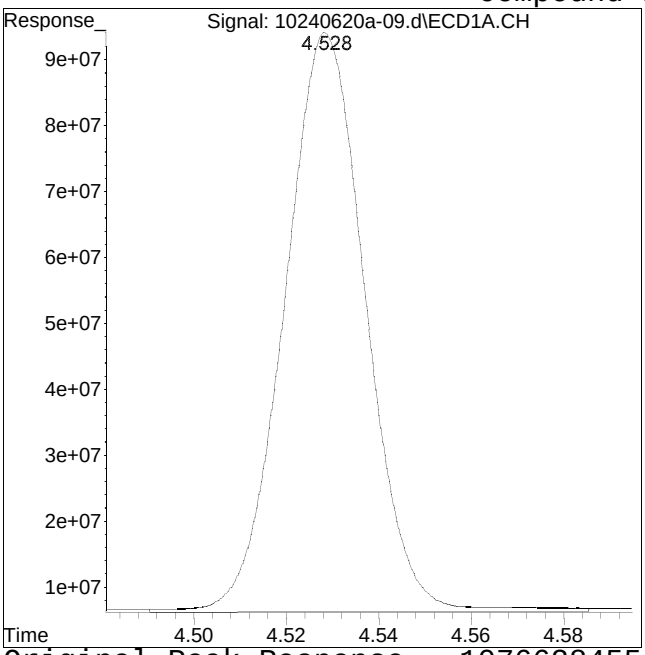
Manual Peak Response = 257863284 M4

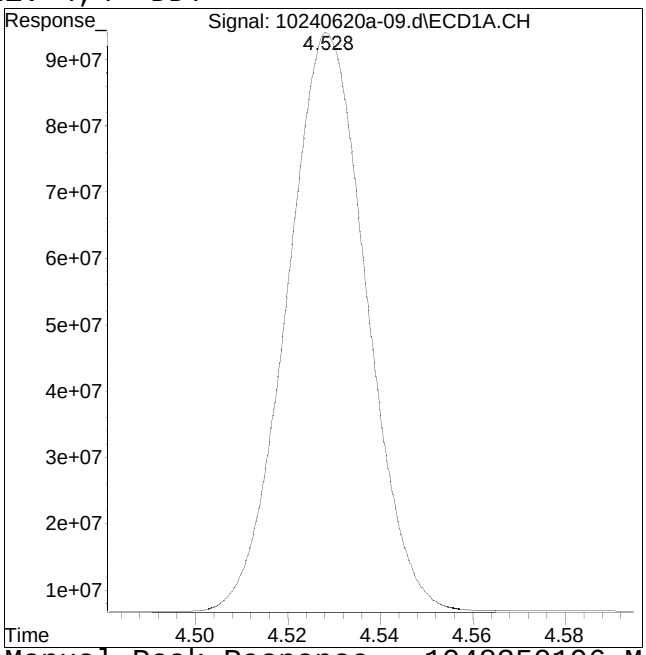
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #21: 4,4'-DDT



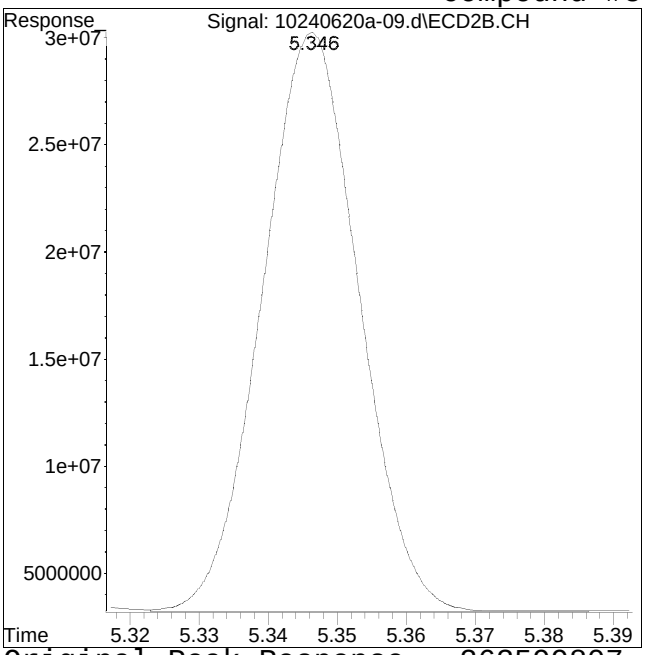


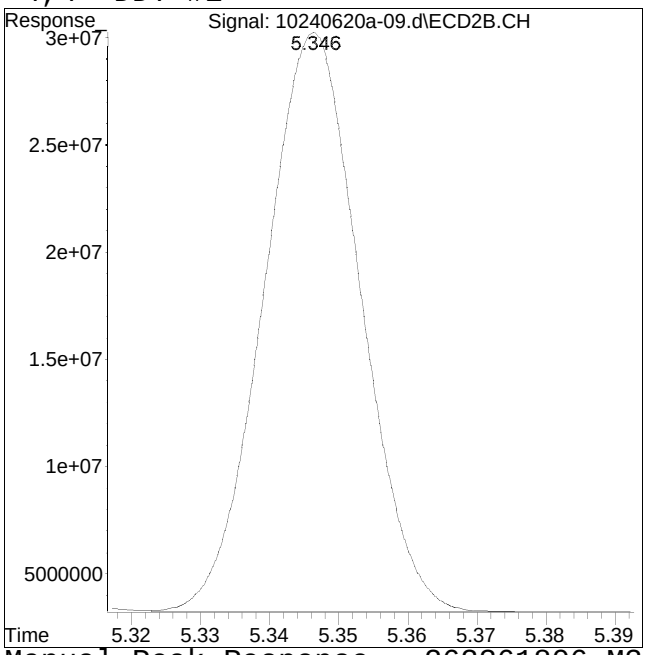
Original Peak Response = 1076628455 Manual Peak Response = 1048350196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #59: 4,4'-DDT #2



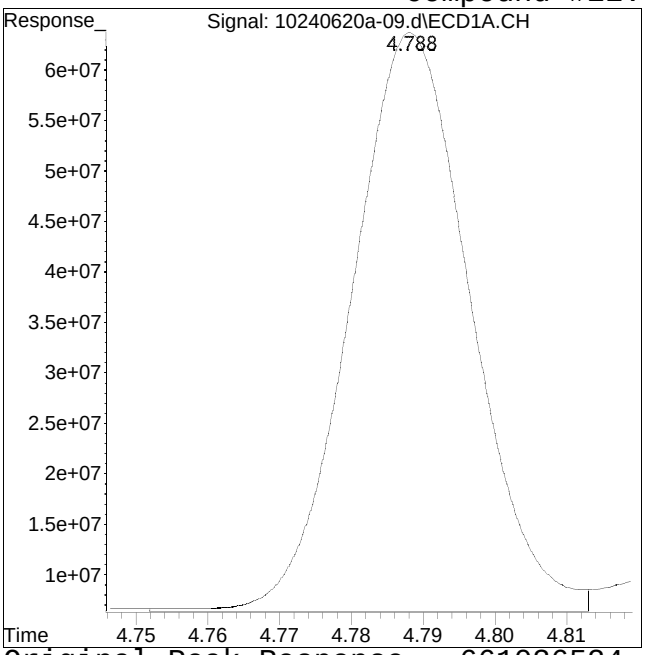


Original Peak Response = 263599807 Manual Peak Response = 262361806 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

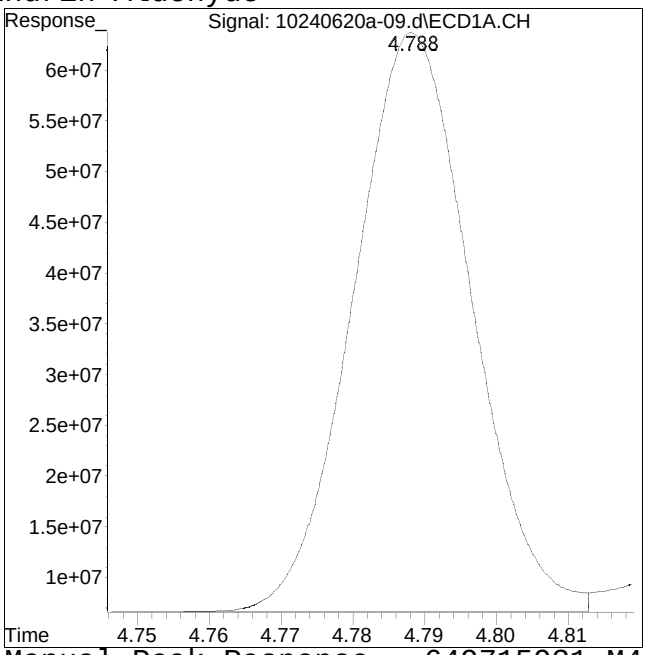
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #22: Endrin Aldehyde



Original Peak Response = 661036524



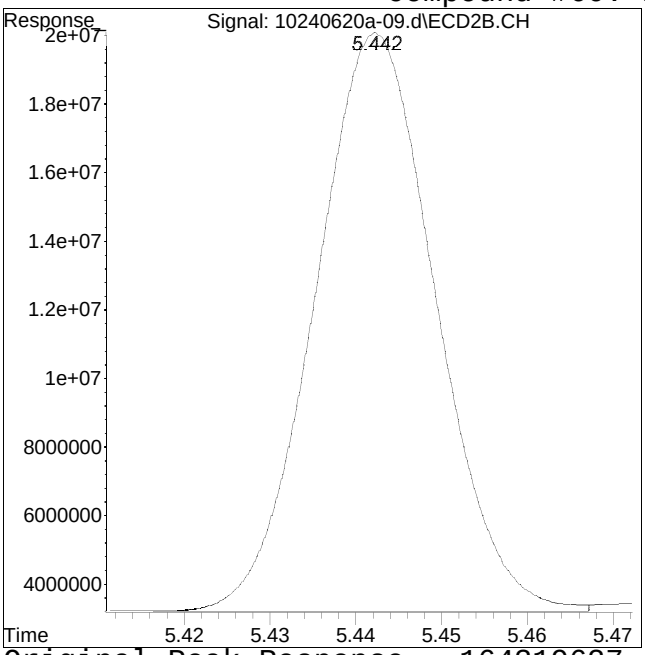
Manual Peak Response = 649715931 M4

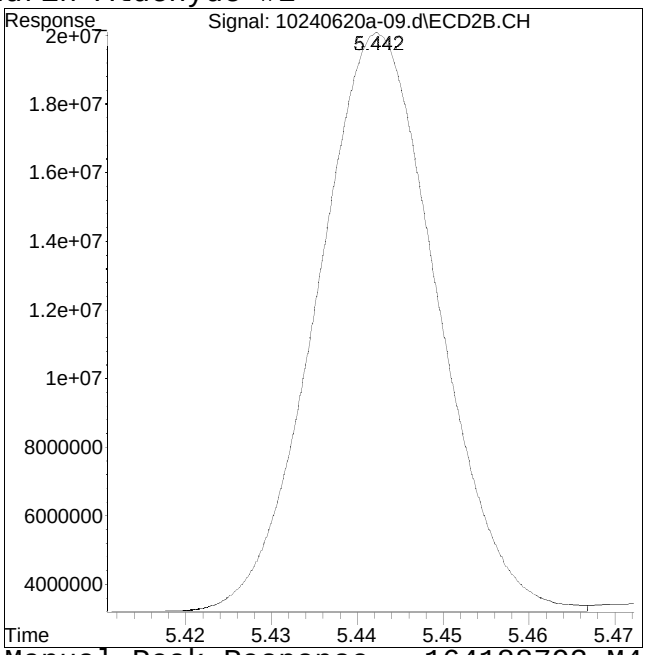
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #60: Endrin Aldehyde #2



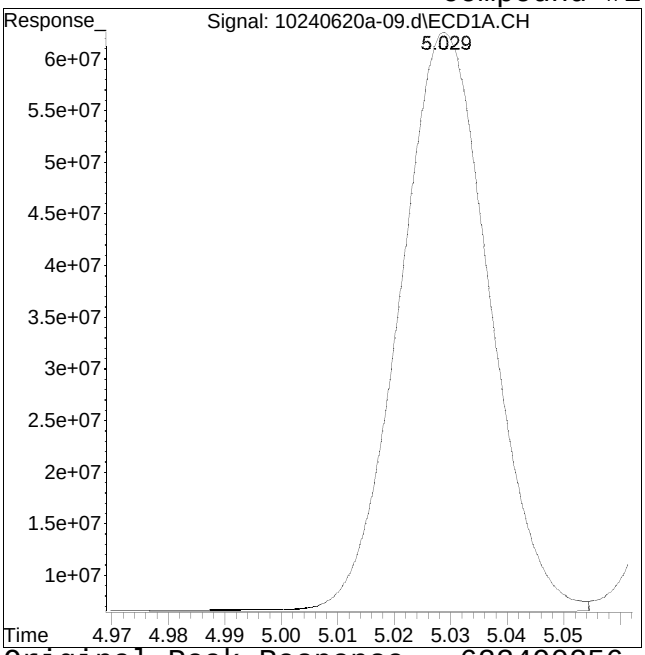


Original Peak Response = 164319627 Manual Peak Response = 164188793 M4
M4 = Poor automated baseline construction.

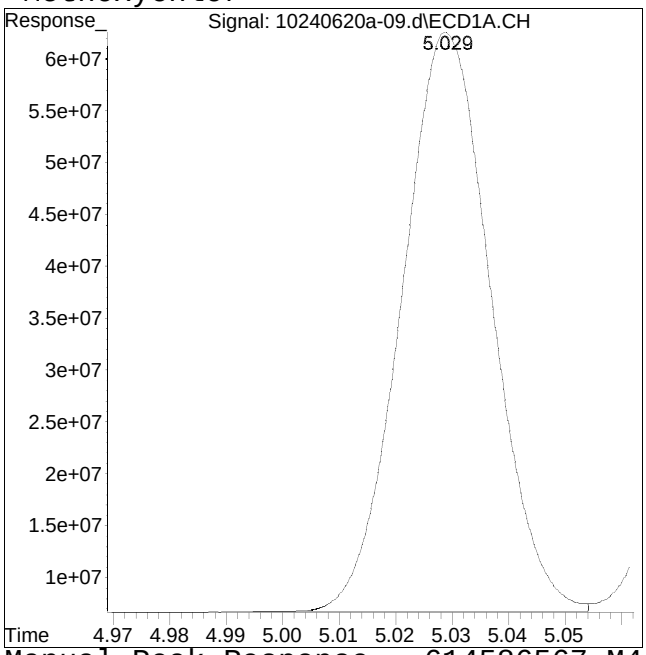
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #23: Methoxychlor



Original Peak Response = 623490256



Manual Peak Response = 614586567 M4

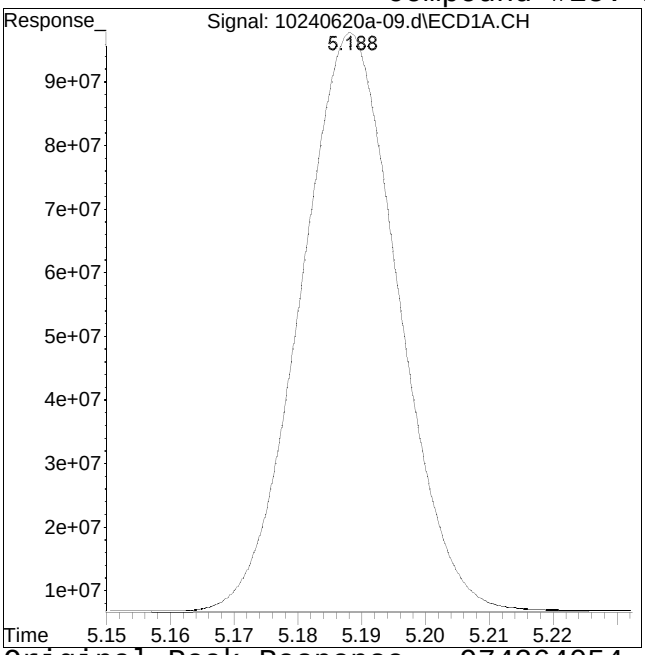
M4 = Poor automated baseline construction.

Manual Integration Report

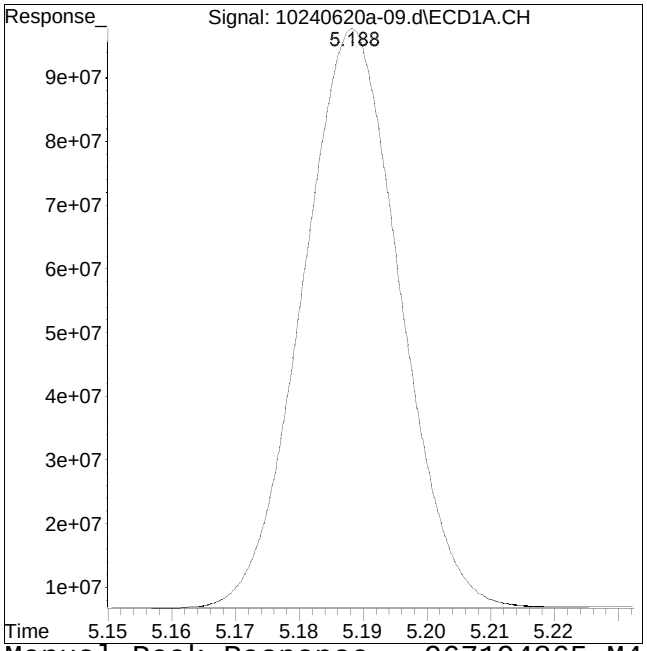
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-09.d
Date Inj'd : 6/20/2024 8:18
Sample : WG1936774-3,42,, 6774

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:23 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 974264054



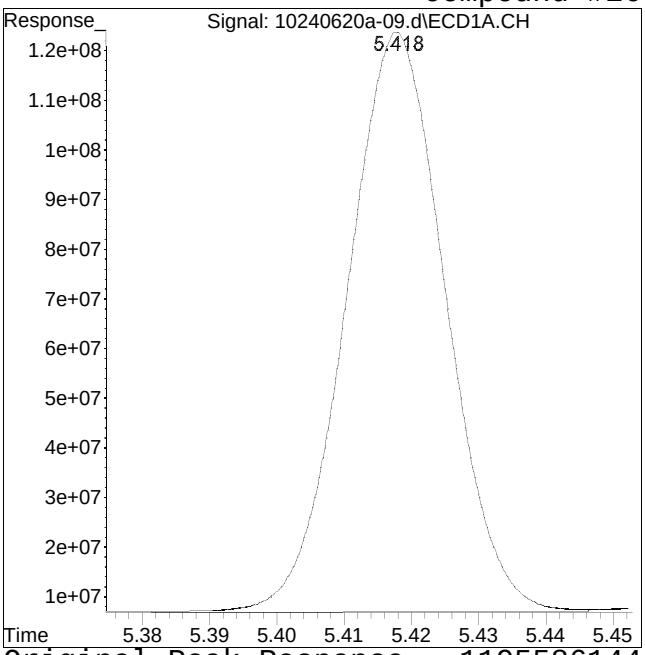
Manual Peak Response = 967194865 M4

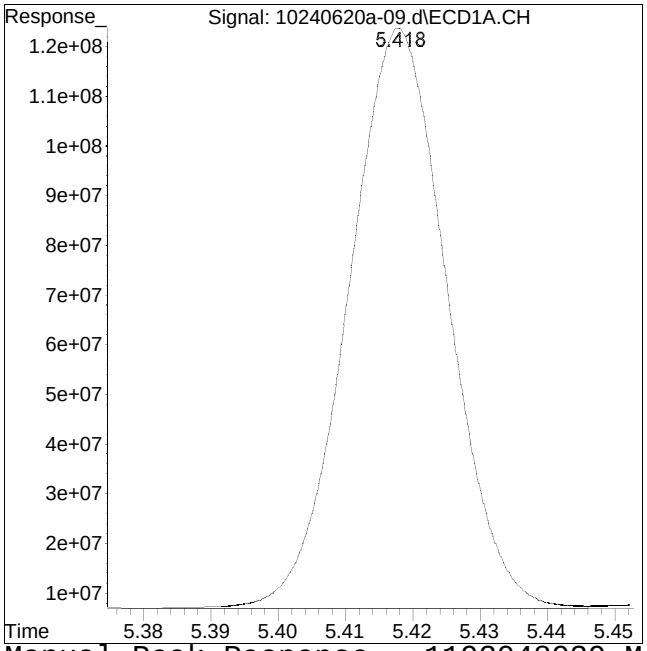
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #26: Endrin Ketone



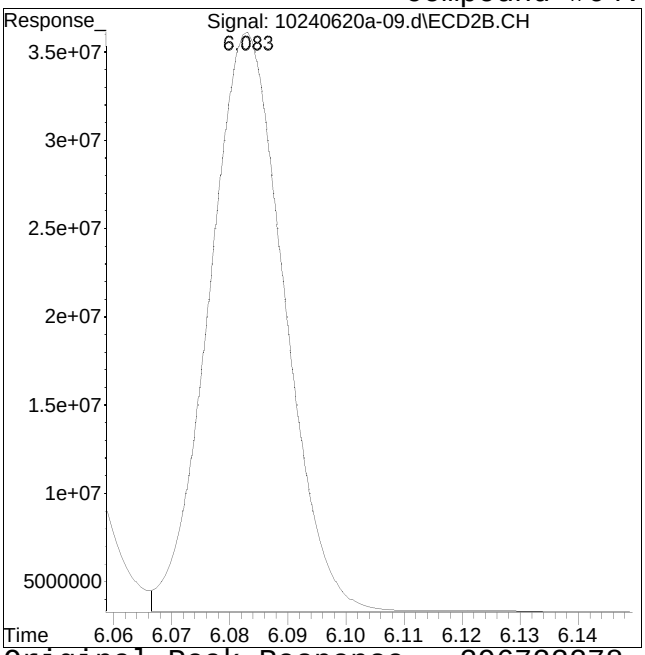


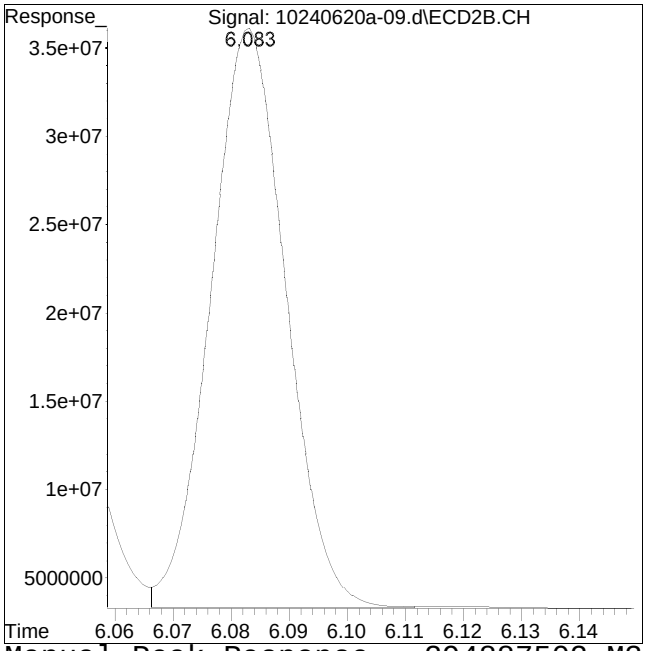
Original Peak Response = 1195586144 Manual Peak Response = 1193048939 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #64: Endrin Ketone #2



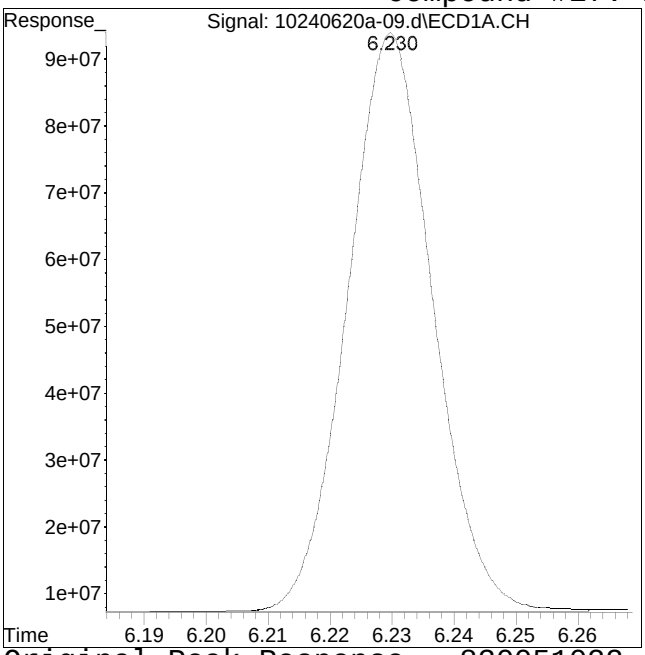


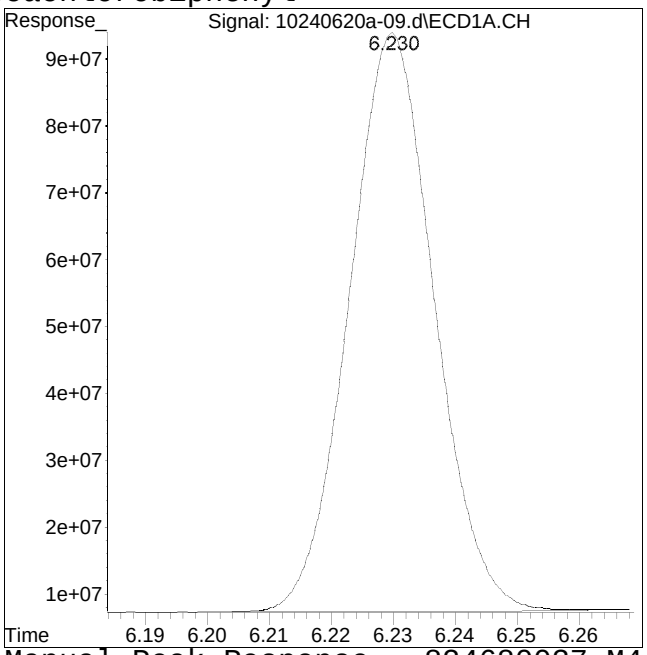
Original Peak Response = 296722278 Manual Peak Response = 294887502 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #27: Decachlorobiphenyl



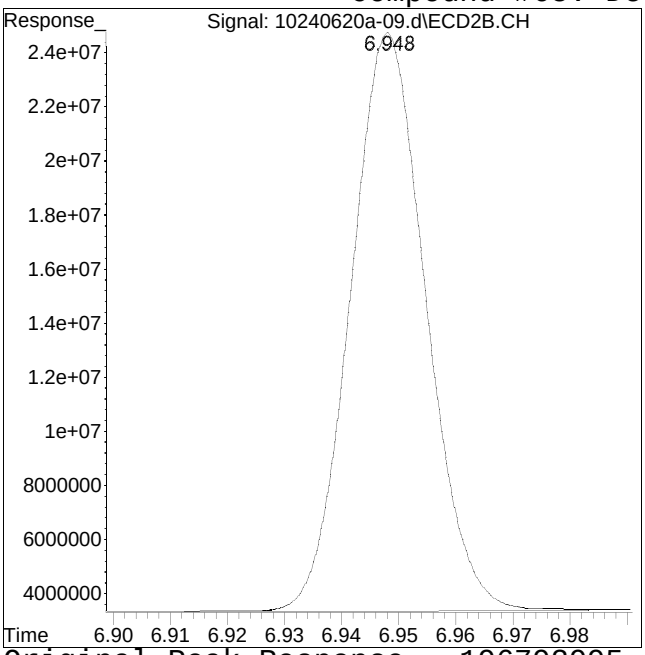


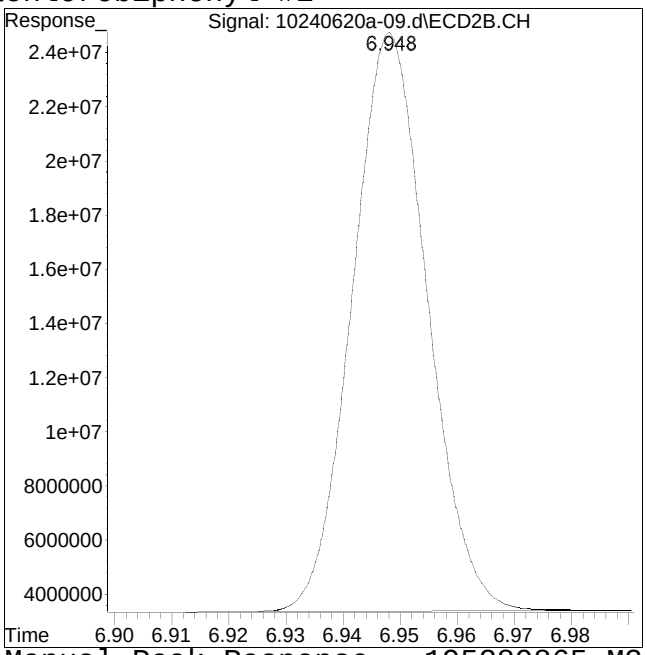
Original Peak Response = 830051022 Manual Peak Response = 824680037 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-09.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 8:18 Instrument : Pest 10
Sample : WG1936774-3,42,, 6774 Quant Date : 6/20/2024 9:23 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 196792995 Manual Peak Response = 195289865 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:13
Operator : PEST10:mmg
Sample : WG1936774-4,42,, ms
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:40:24 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.377	553.6E6	149.4E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 119.07%		
	Standard Area 1 : #2 = 137931823				Recovery = 108.31%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.600	1.859	796.7E6	224.3E6	33.148M4	39.937M3
	Spiked Amount 50.000	Range 30 - 150		Recovery = 66.30%		79.87%	
27) s	Decachlorobi	6.229	6.950	693.9E6	181.1E6	38.564M3	41.792M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 77.13%		83.58%	
Target Compounds							
4) t	alpha-BHC	1.905	2.280	1335.3E6	343.0E6	39.922M3	42.877
5) t	gamma-BHC (l	2.104	2.567	1227.6E6	317.4E6	38.726	42.250
6) t	beta-BHC	2.158	2.631	523.3E6	147.1E6	41.267M4	44.656M4
7) t	delta-BHC	2.283	2.899	1173.0E6	297.4E6	37.503M4	39.426M3
8) t	Heptachlor	2.442	2.966	1230.0E6	302.4E6	40.854M4	40.529M3
9) t	Aldrin	2.679	3.286	1091.2E6	276.7E6	38.430M4	40.716M4
12) t	Heptachlor E	3.215	3.905	1063.1E6	262.8E6	39.305M4	38.688M4
13) t	gamma-Chlord	3.336	4.126	1078.3E6	273.5E6	43.579M4	45.262M3
14) t	alpha-Chlord	3.468	4.297	1000.5E6	267.8E6	35.596M4	39.403M4
15) t	4,4'-DDE	3.565	4.494	1020.4E6	258.4E6	38.334M4	41.117M4
16) t	Endosulfan I	3.602	4.358	977.1E6	252.3E6	37.943M4	39.917M4
17) t	Dieldrin	3.859	4.650	1143.8E6	283.1E6	43.034M4	44.749M3
18) t	Endrin	4.111	4.948	1095.1E6	267.8E6	40.116M4	41.255M4
19) t	4,4'-DDD	4.228	5.069	911.0E6	223.5E6	42.101M3	44.229M4
20) t	Endosulfan I	4.360	5.146	981.8E6	243.5E6	41.669M4	42.832
21) t	4,4'-DDT	4.529	5.346	1000.6E6	237.2E6	41.786M3	41.354M4
22) t	Endrin Aldeh	4.789	5.443	661.5E6	165.3E6	36.777M4	35.919M4

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:13
Operator : PEST10:mmg
Sample : WG1936774-4,42,, ms
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:40:24 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.029	5.911	564.2E6	132.8E6	50.923M4	46.100M4
25) t Endosulfan S	5.188	5.671	937.3E6	229.1E6	40.113M4	40.427M3
26) t Endrin Keton	5.418	6.083	1117.5E6	271.8E6	43.603M3	44.016M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

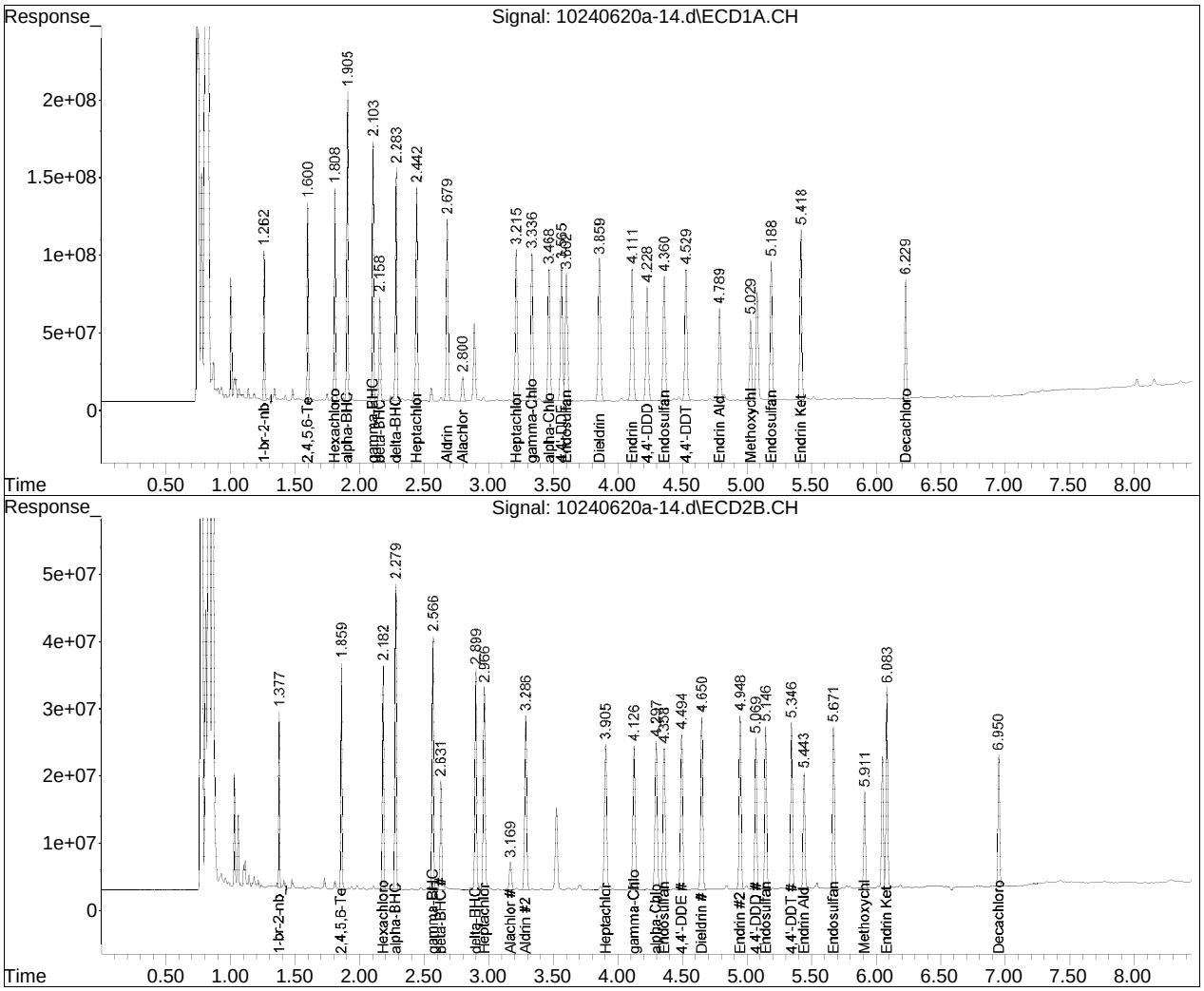
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240620A\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:13
Operator : PEST10:mmg
Sample : WG1936774-4,42,, ms
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:40:24 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

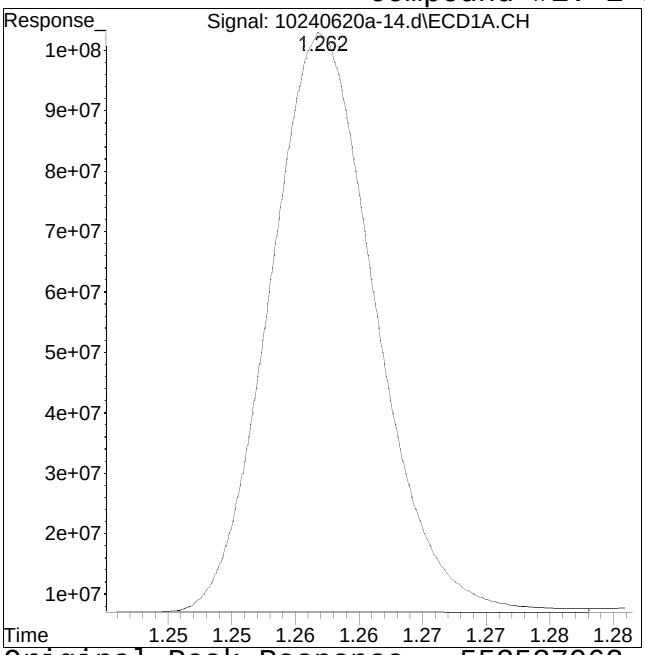
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

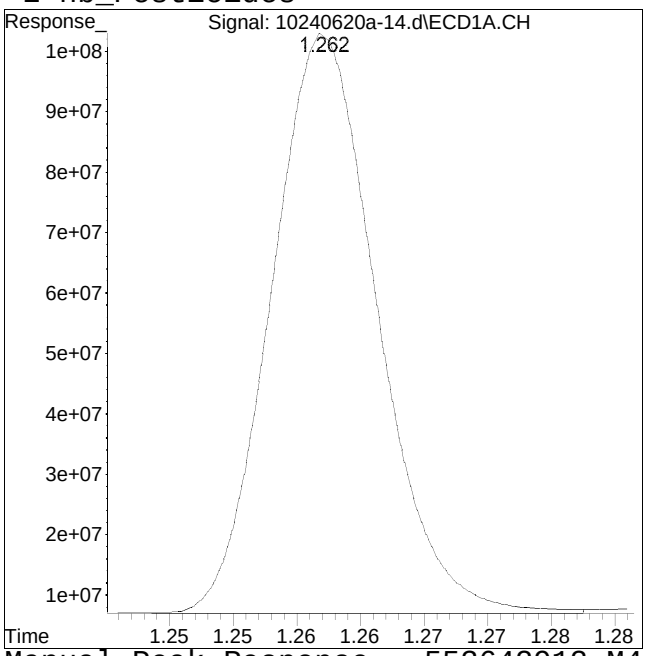


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #1: 1-br-2-nb_Pesticides



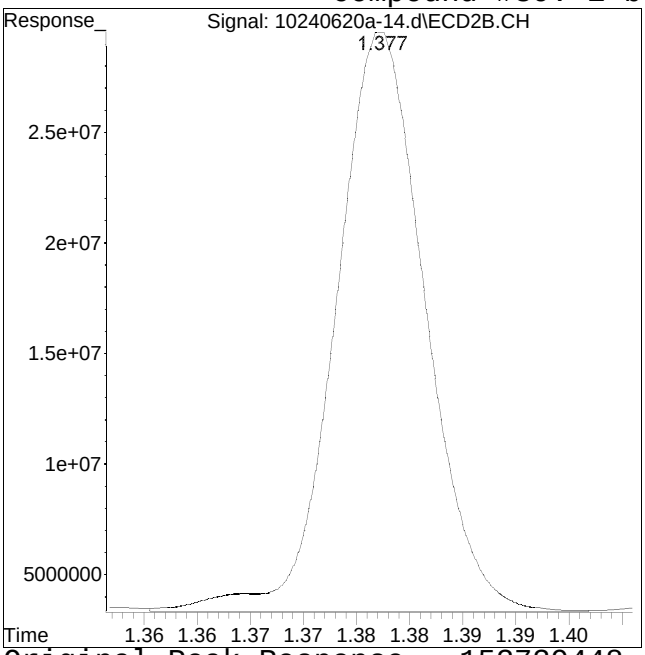


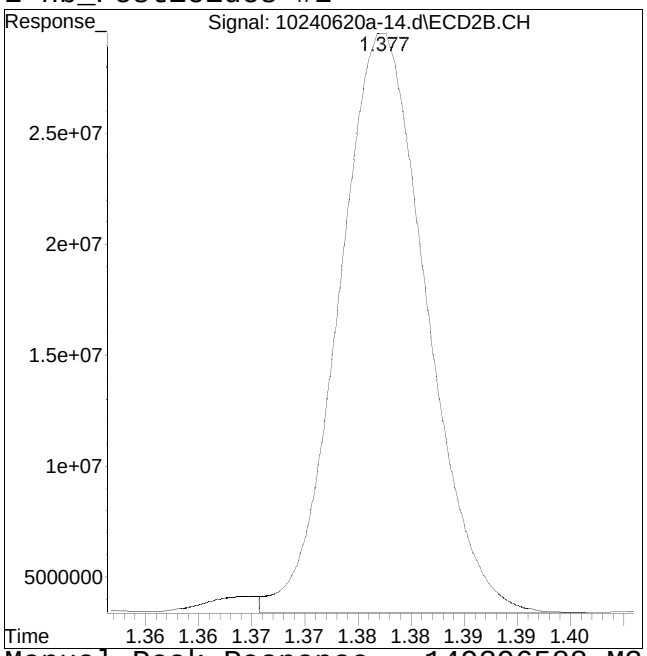
Original Peak Response = 553537962 Manual Peak Response = 553642912 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #39: 1-br-2-nb_Pesticides #2



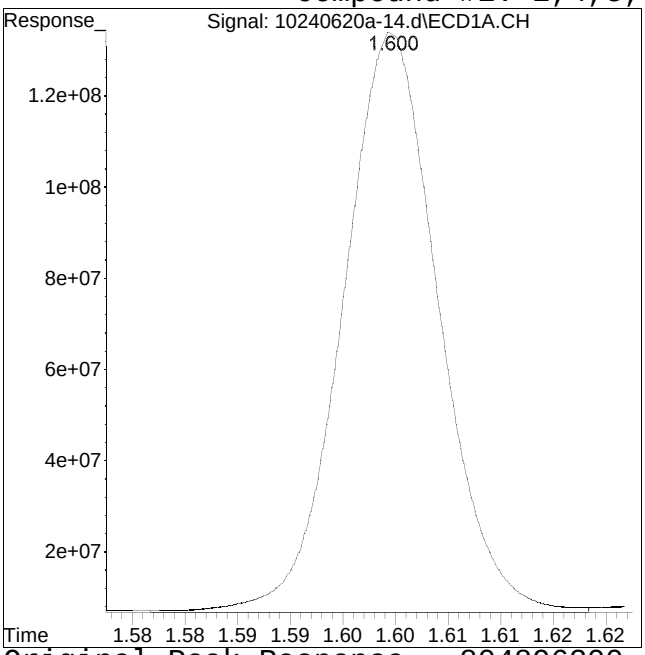


Original Peak Response = 153739448 Manual Peak Response = 149396588 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

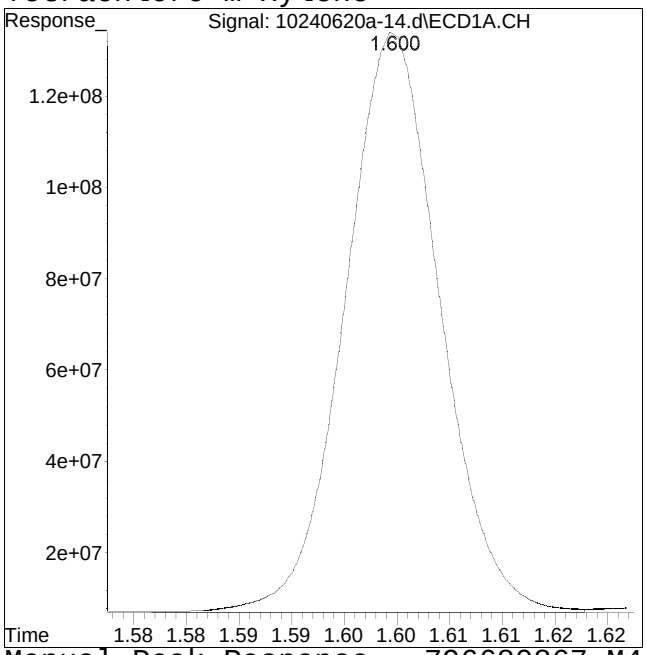
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 804896300



Manual Peak Response = 796680867 M4

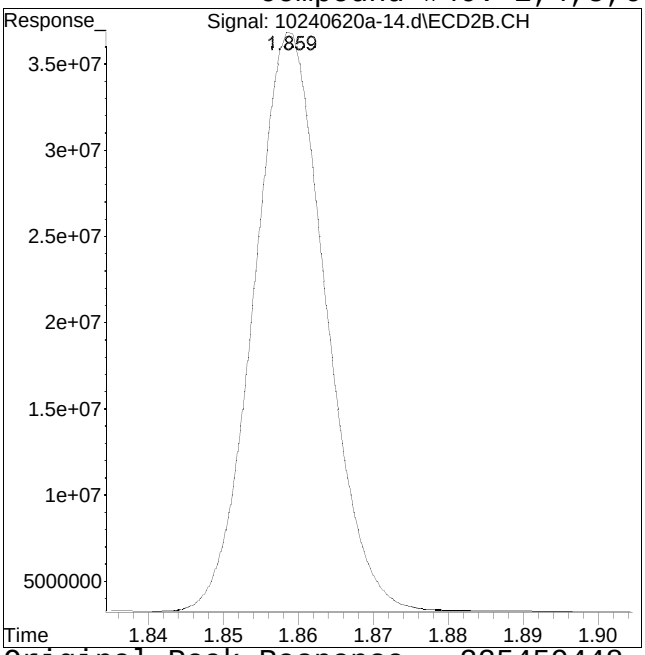
M4 = Poor automated baseline construction.

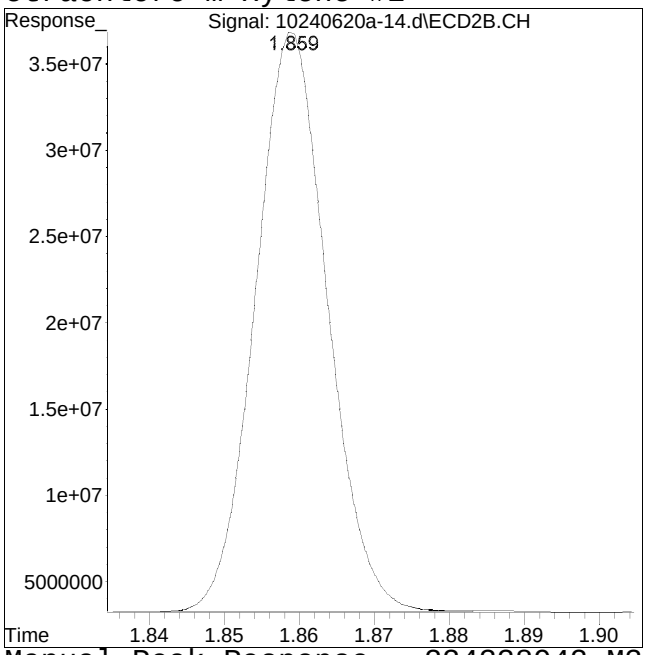
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-14.d
Date Inj'd : 6/20/2024 9:13
Sample : WG1936774-4,42,, ms

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:40 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



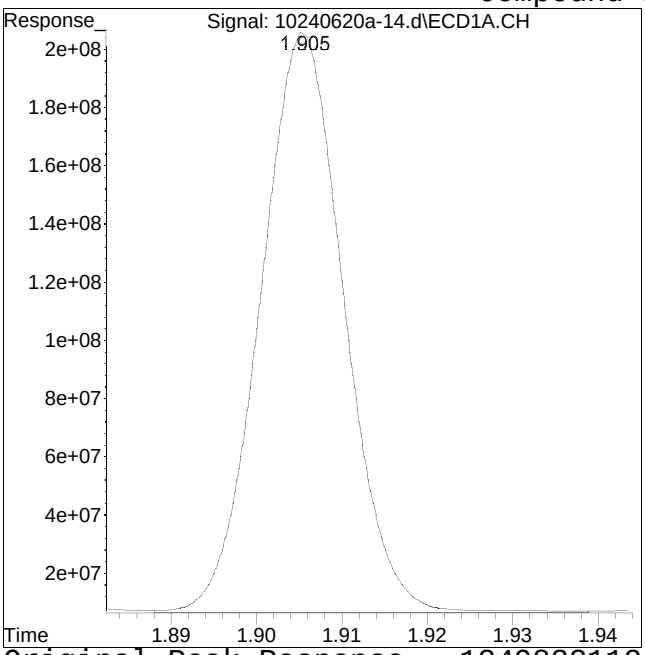


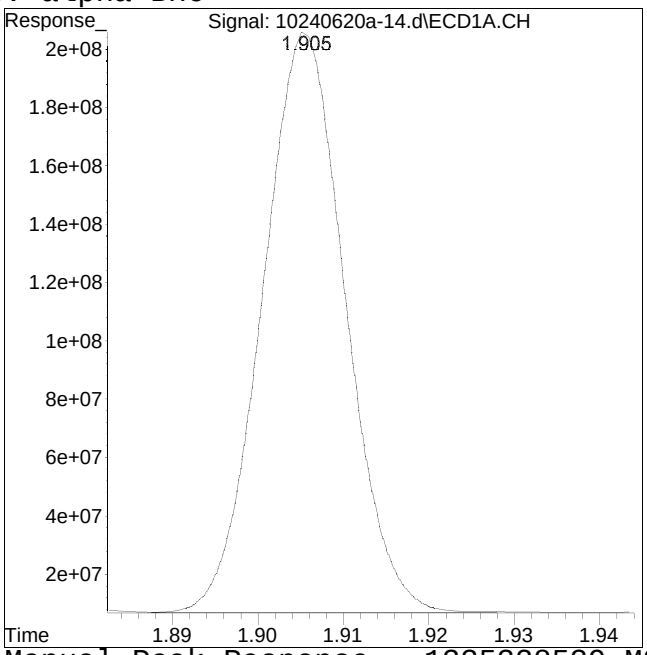
Original Peak Response = 225459448 Manual Peak Response = 224338942 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #4: alpha-BHC



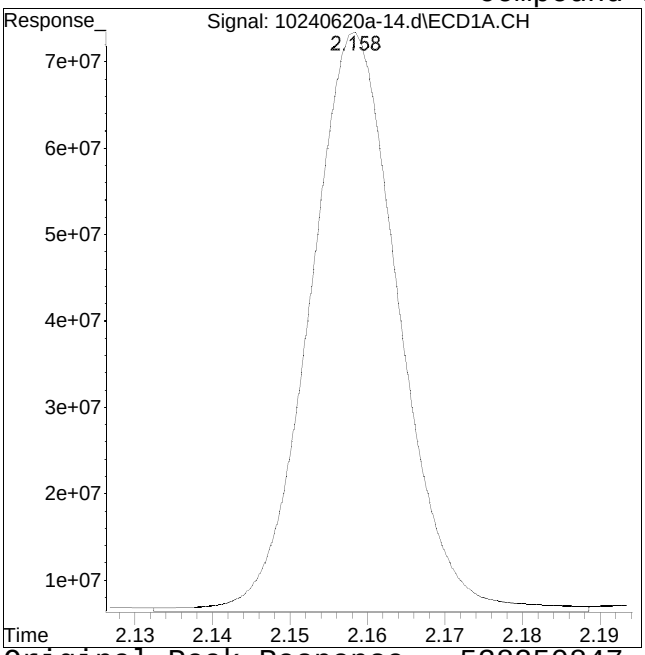


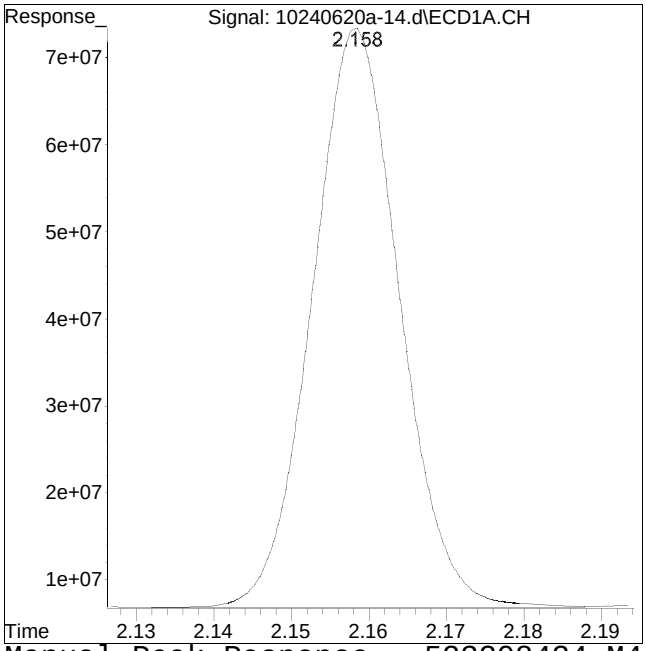
Original Peak Response = 1349833112 Manual Peak Response = 1335328539 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #6: beta-BHC



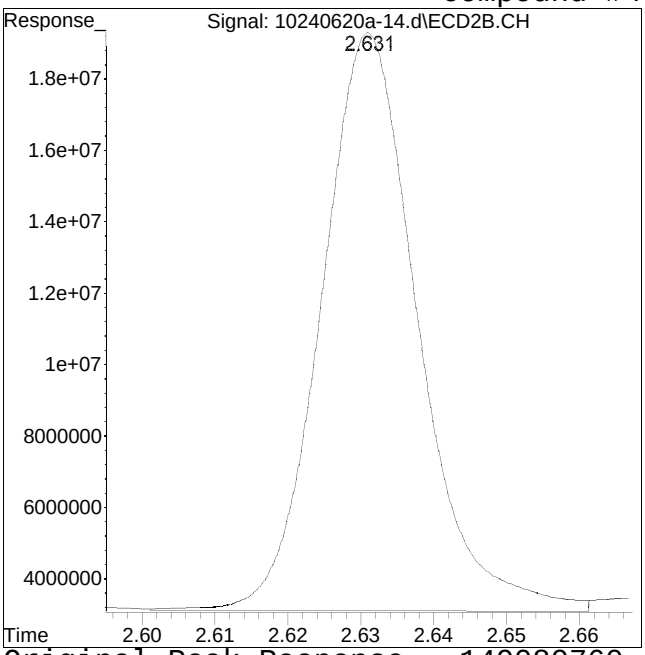


Original Peak Response = 538250847 Manual Peak Response = 523308434 M4
M4 = Poor automated baseline construction.

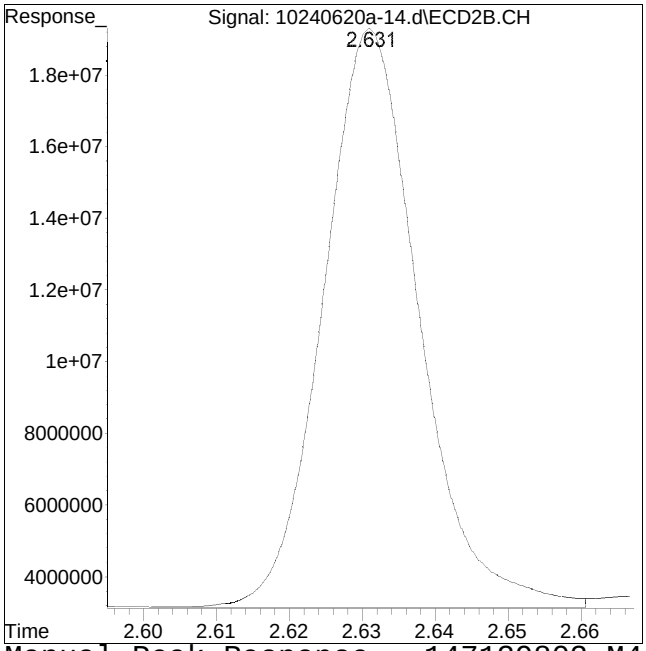
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #44: beta-BHC #2



Original Peak Response = 149080760

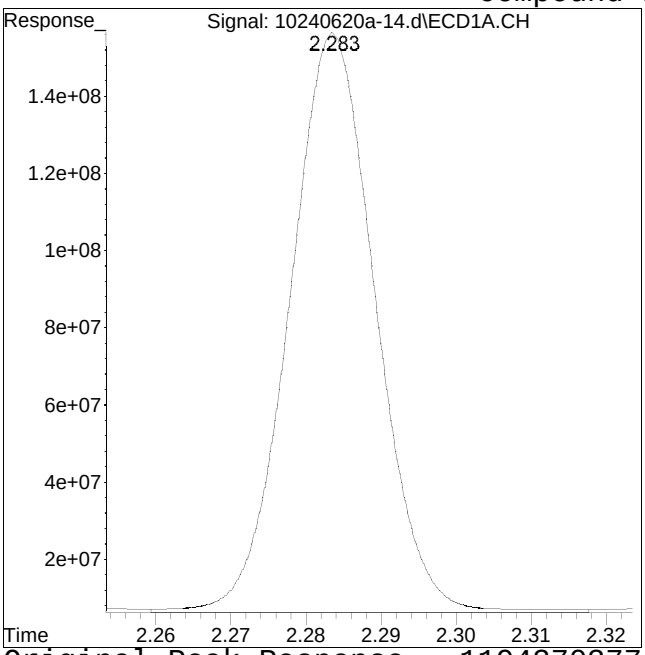


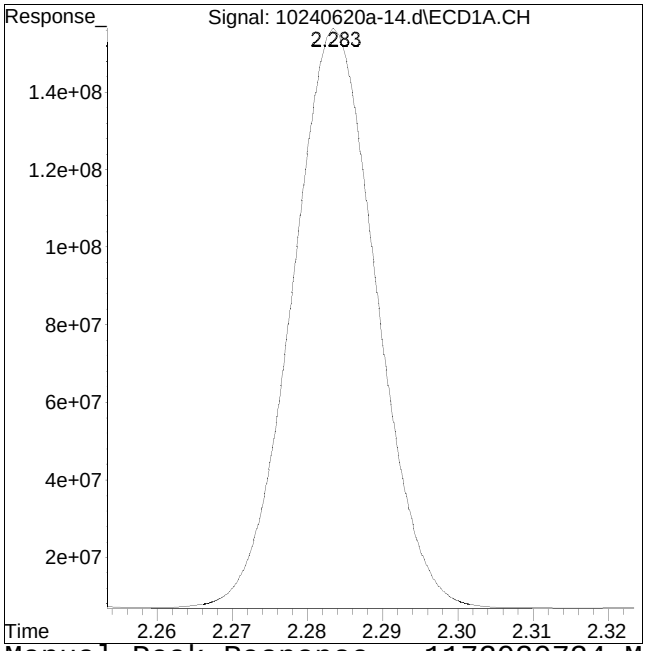
Manual Peak Response = 147139803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #7: delta-BHC



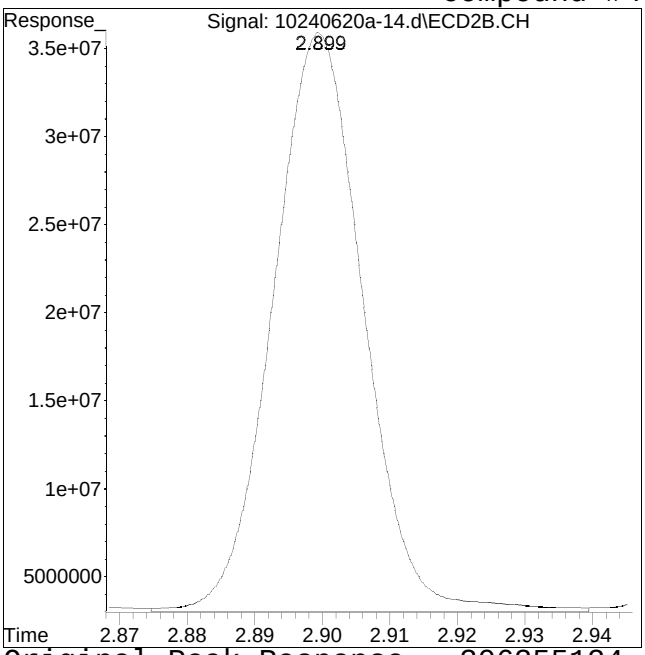


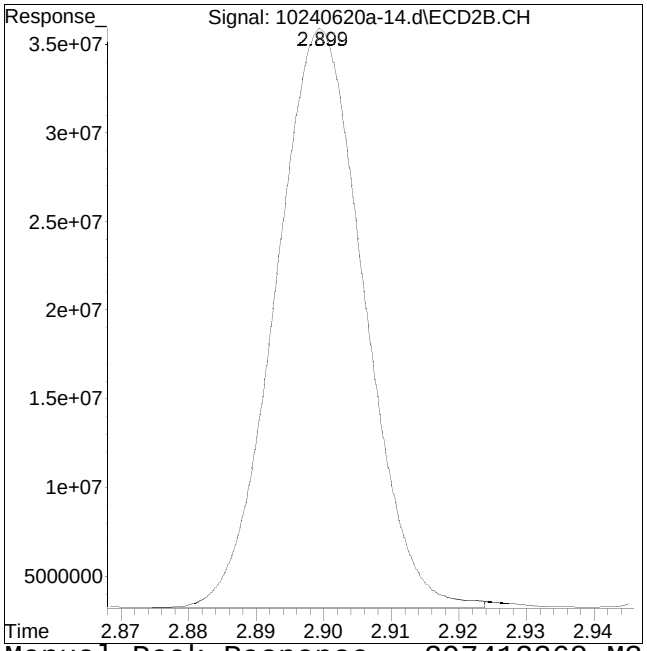
Original Peak Response = 1194370377 Manual Peak Response = 1173030734 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #45: delta-BHC #2



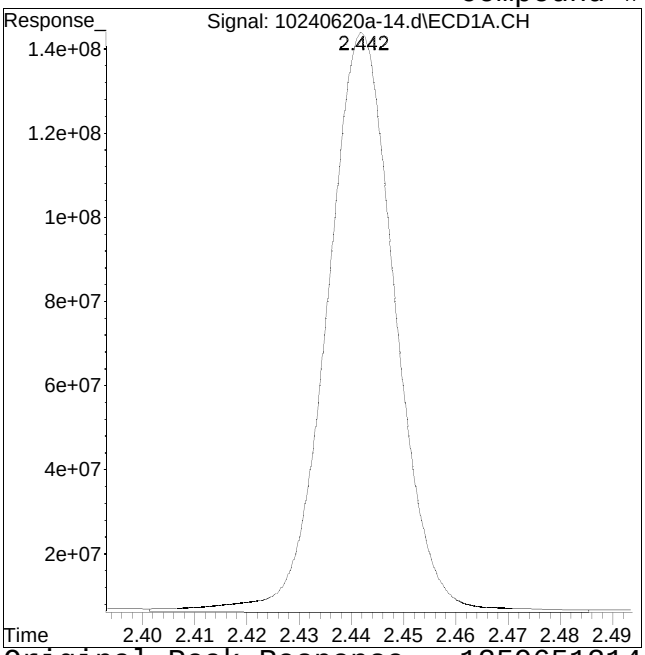


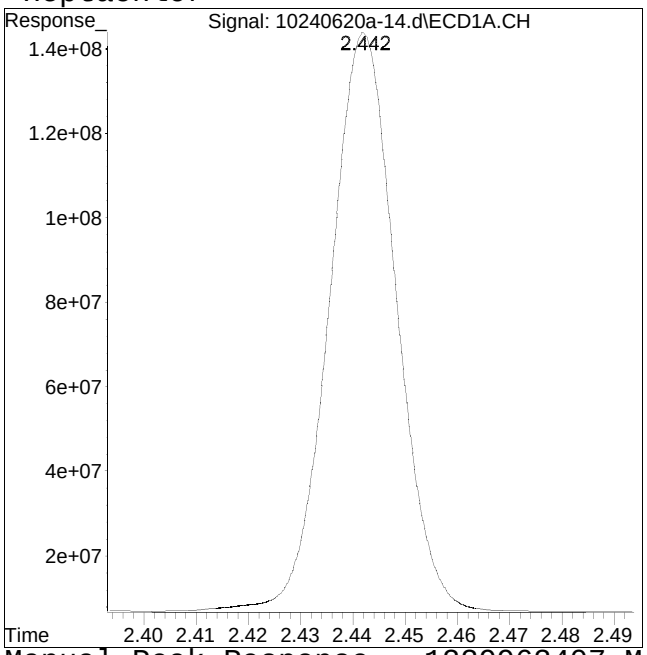
Original Peak Response = 306355124 Manual Peak Response = 297412268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #8: Heptachlor



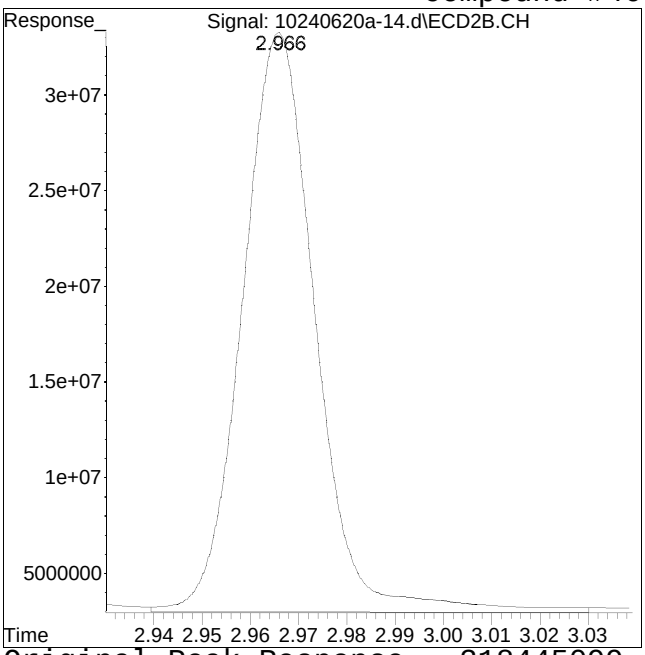


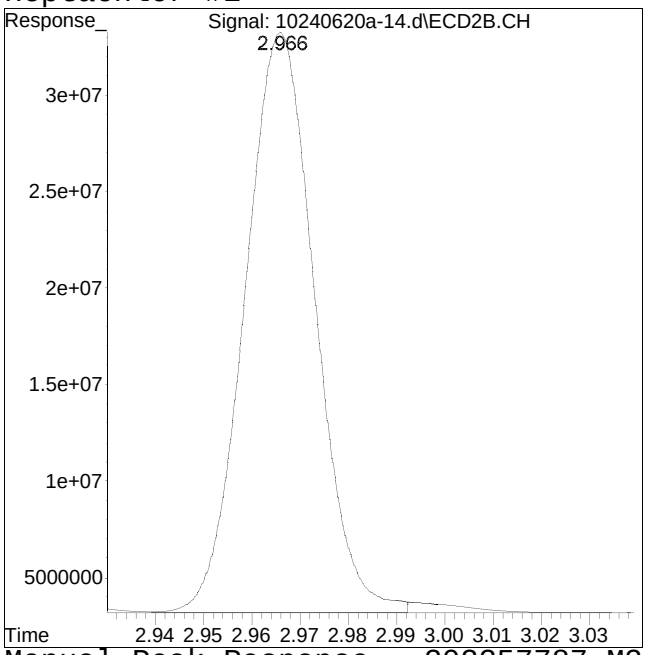
Original Peak Response = 1259651214 Manual Peak Response = 1229963407 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #46: Heptachlor #2



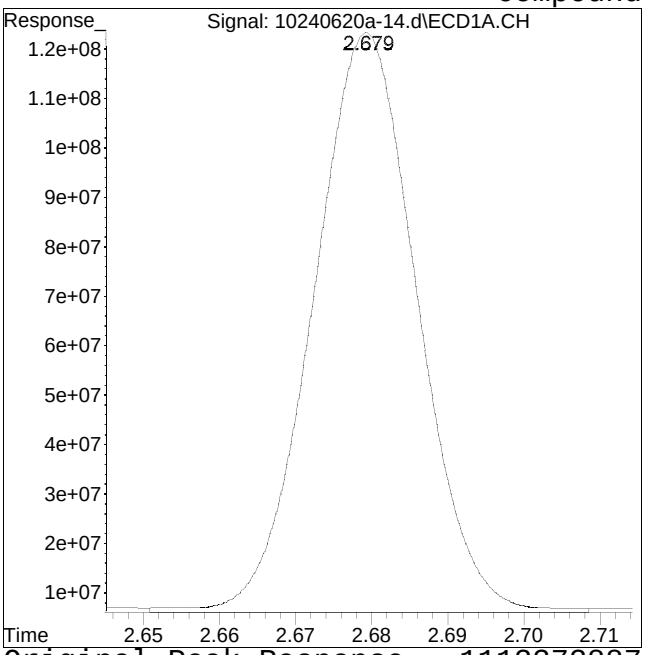


Original Peak Response = 318445099 Manual Peak Response = 302357787 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

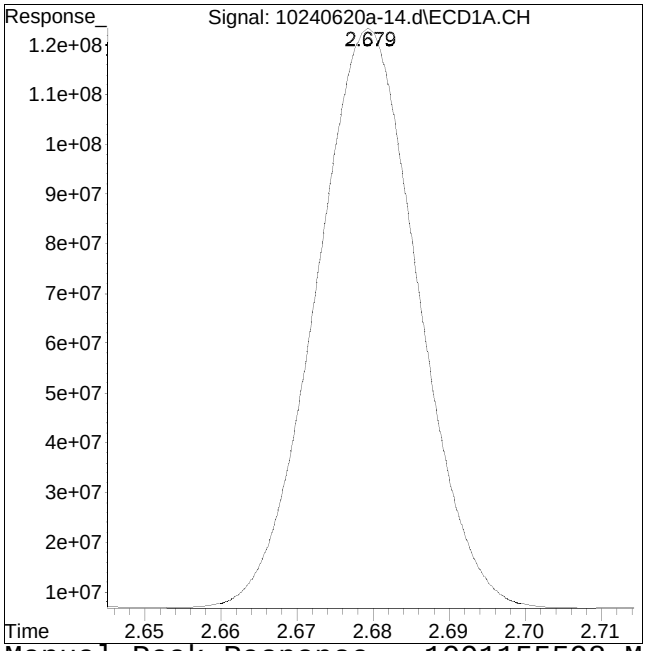
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #9: Aldrin



Original Peak Response = 1113373887

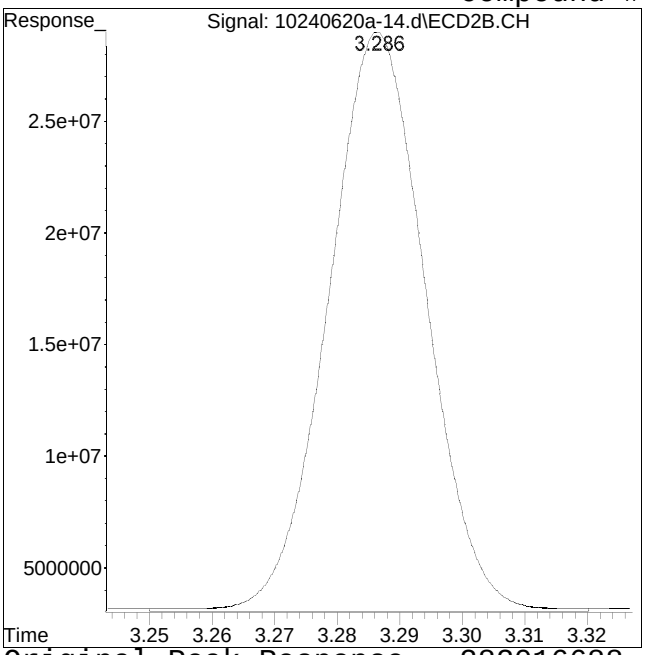


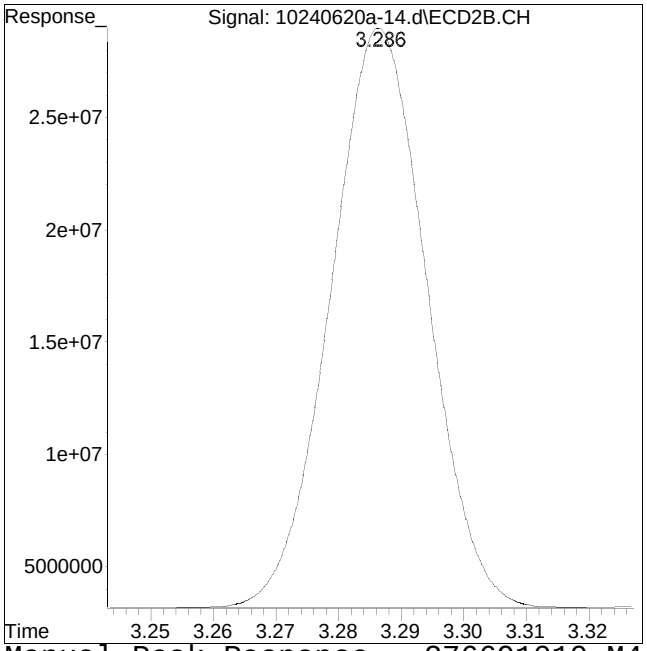
Manual Peak Response = 1091155598 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #47: Aldrin #2



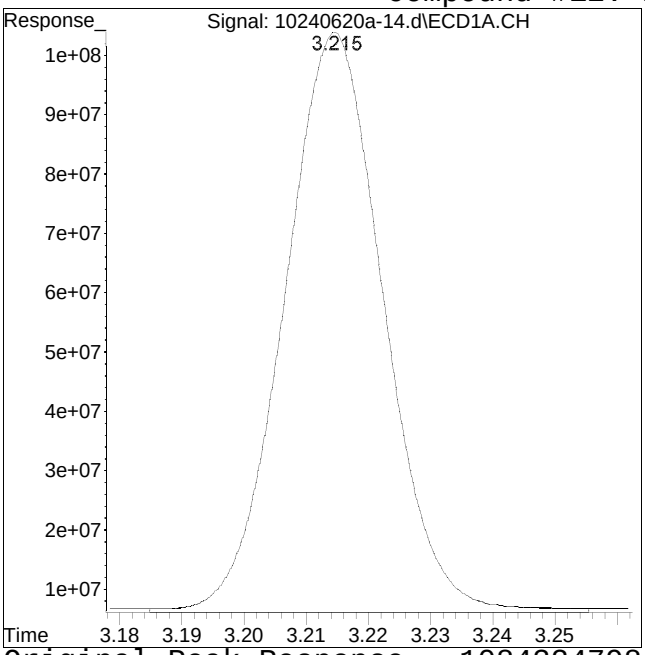


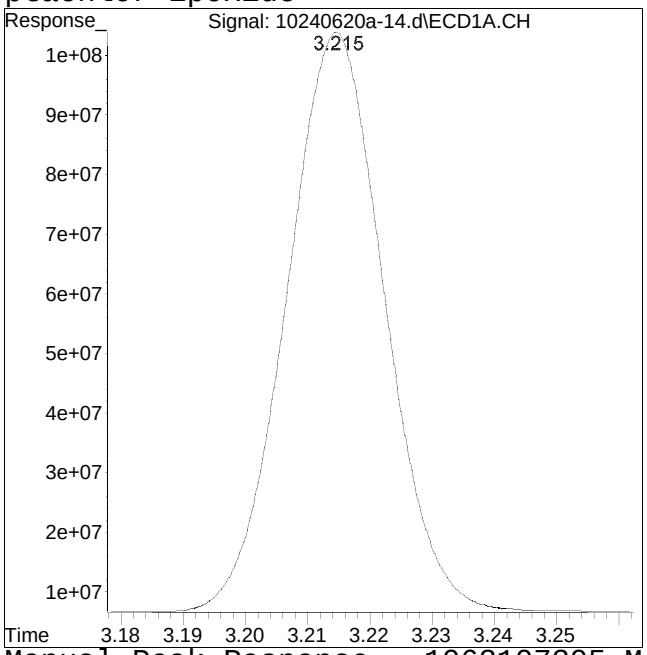
Original Peak Response = 282016688 Manual Peak Response = 276691010 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #12: Heptachlor Epoxide



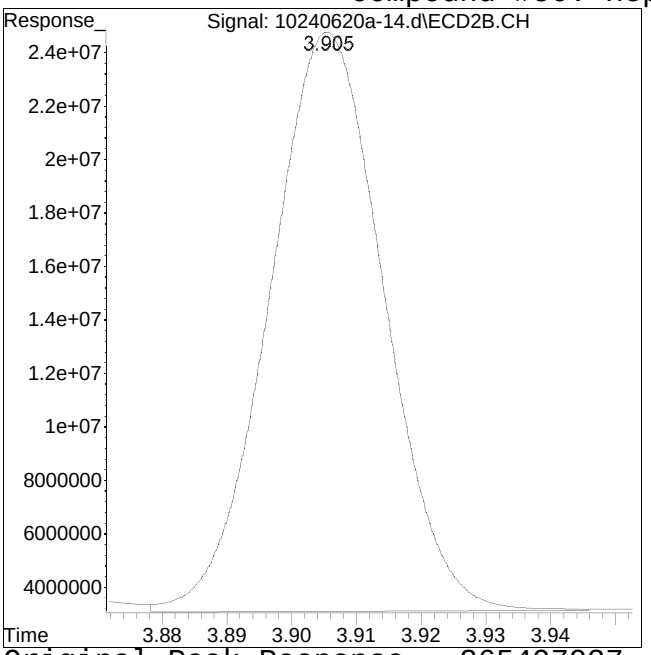


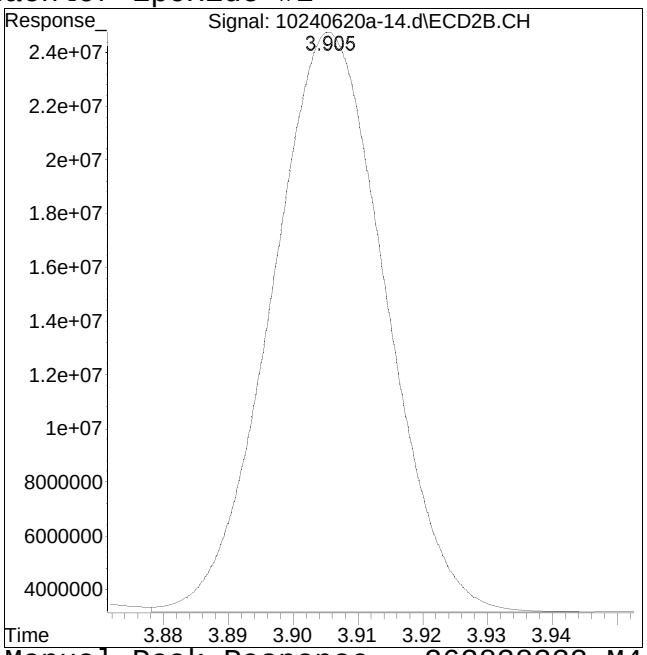
Original Peak Response = 1084324798 Manual Peak Response = 1063107305 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #50: Heptachlor Epoxide #2



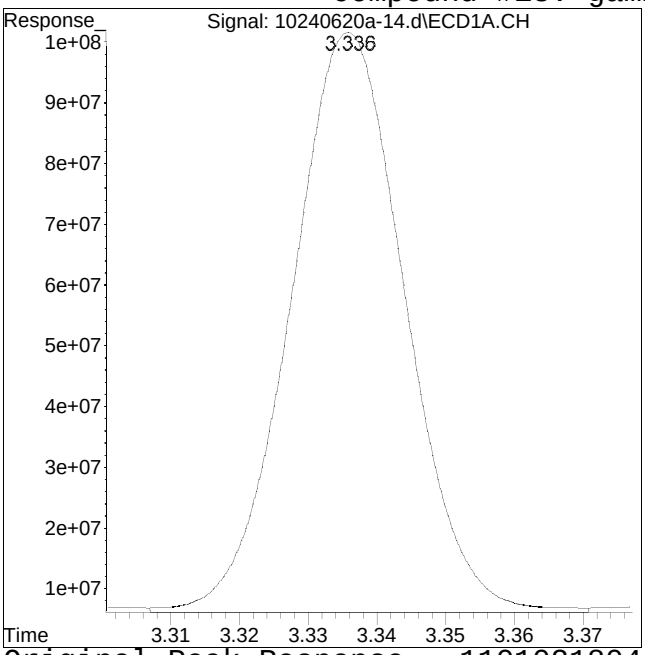


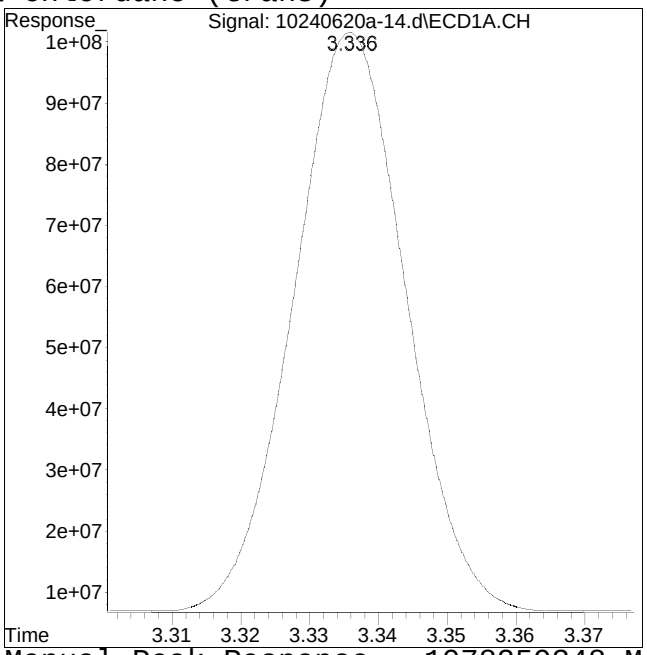
Original Peak Response = 265497927 Manual Peak Response = 262838332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #13: gamma-Chlordane (trans)



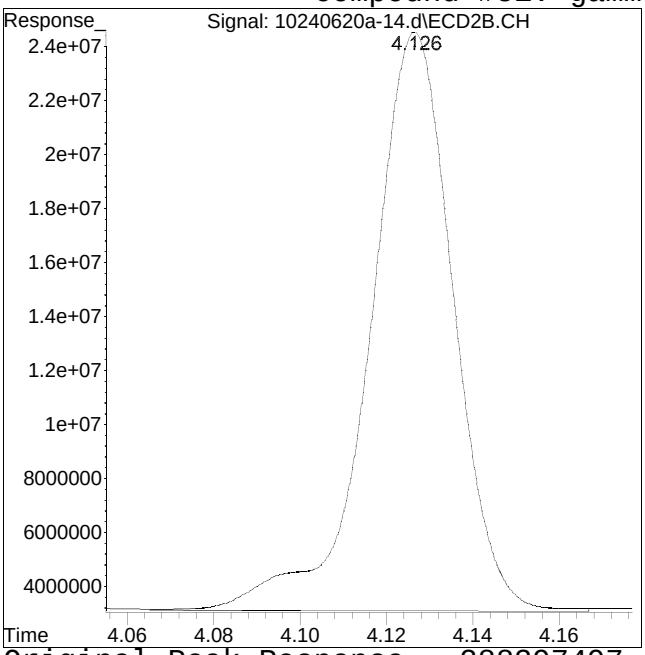


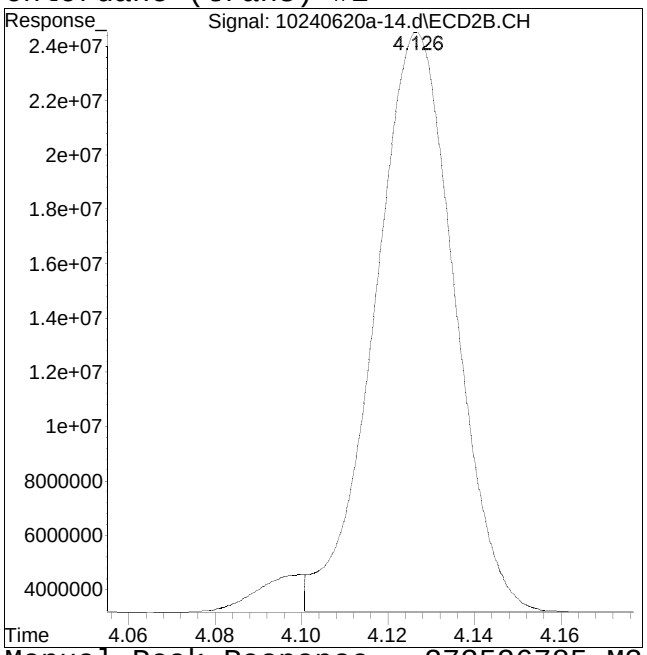
Original Peak Response = 1101021804 Manual Peak Response = 1078259348 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #51: gamma-Chlordane (trans) #2





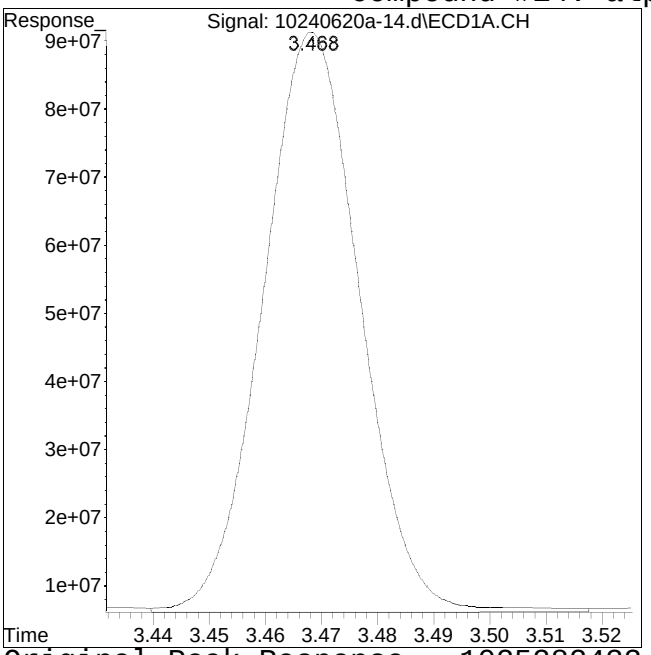
Original Peak Response = 288397497 Manual Peak Response = 273526785 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

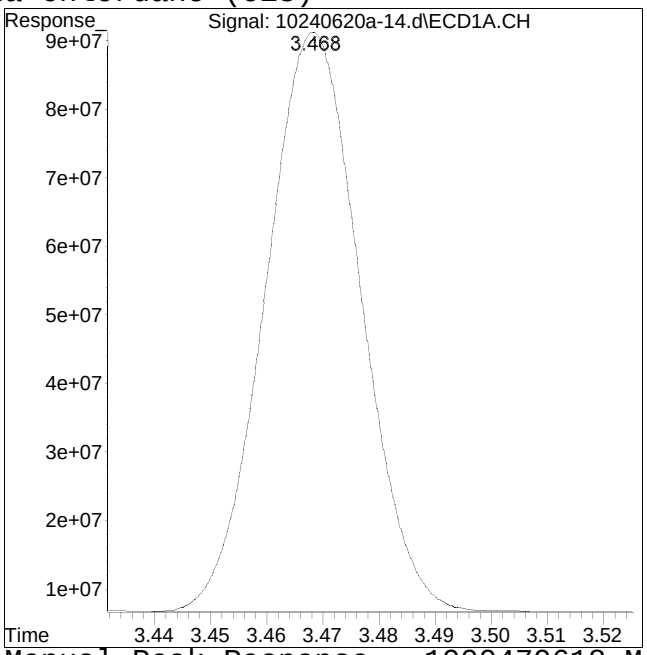
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-14.d
Date Inj'd : 6/20/2024 9:13
Sample : WG1936774-4,42,, ms

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:40 am

Compound #14: alpha-Chlordane (cis)



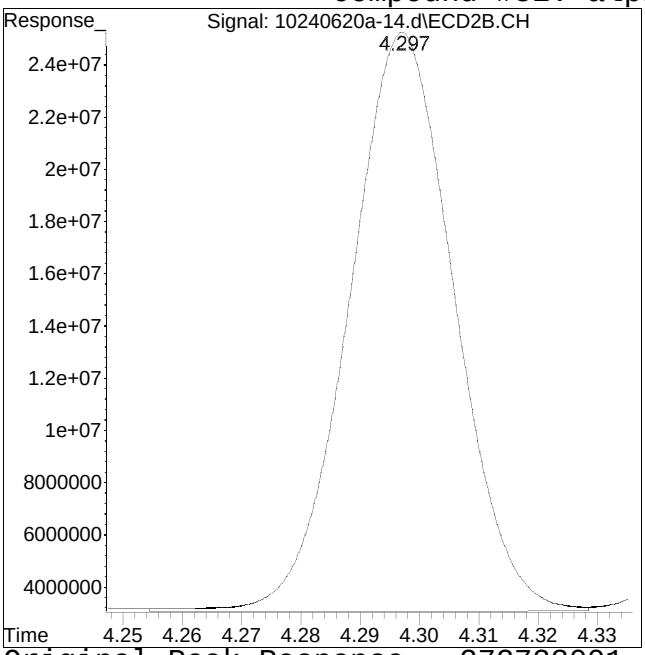


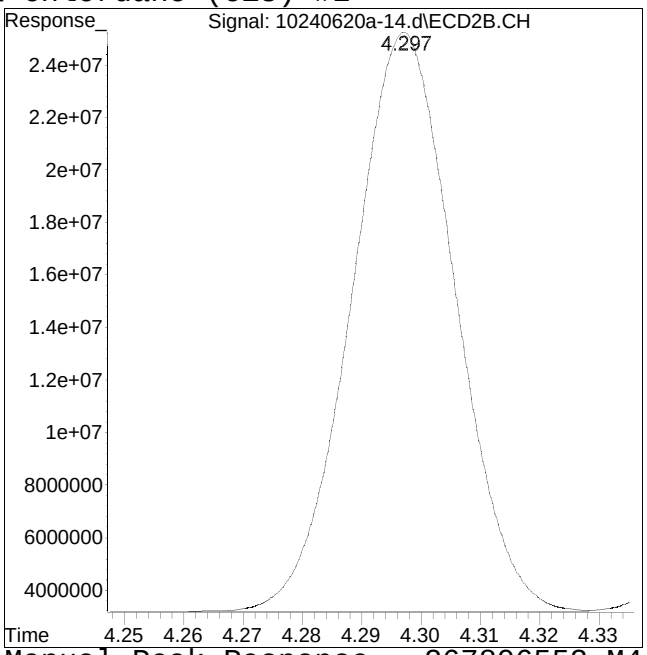
Original Peak Response = 1025282433 Manual Peak Response = 1000479618 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #52: alpha-Chlordane (cis) #2



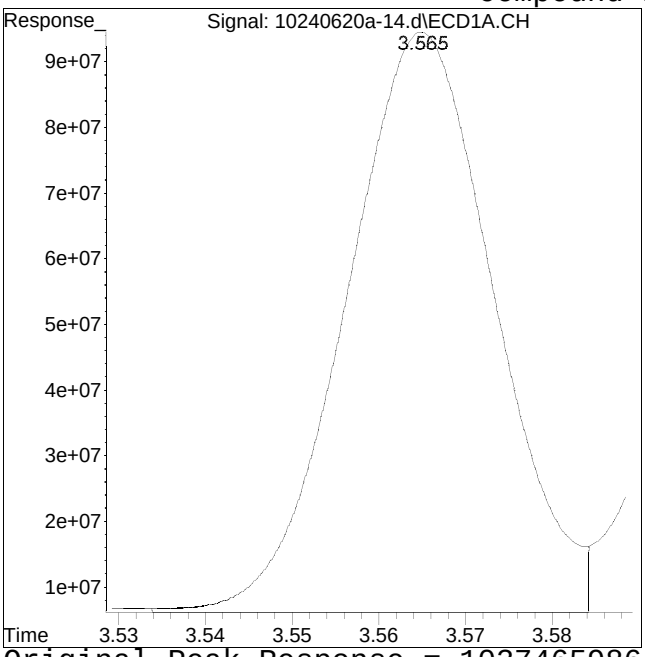


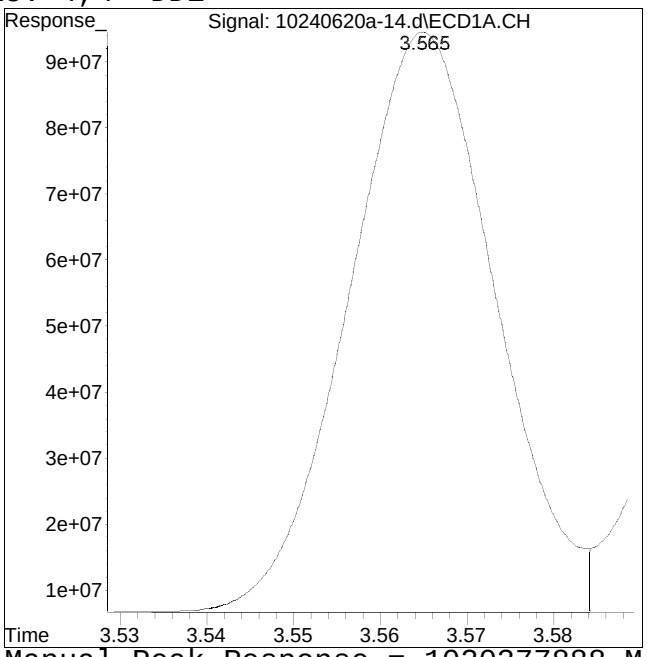
Original Peak Response = 272723001 Manual Peak Response = 267806552 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #15: 4,4'-DDE



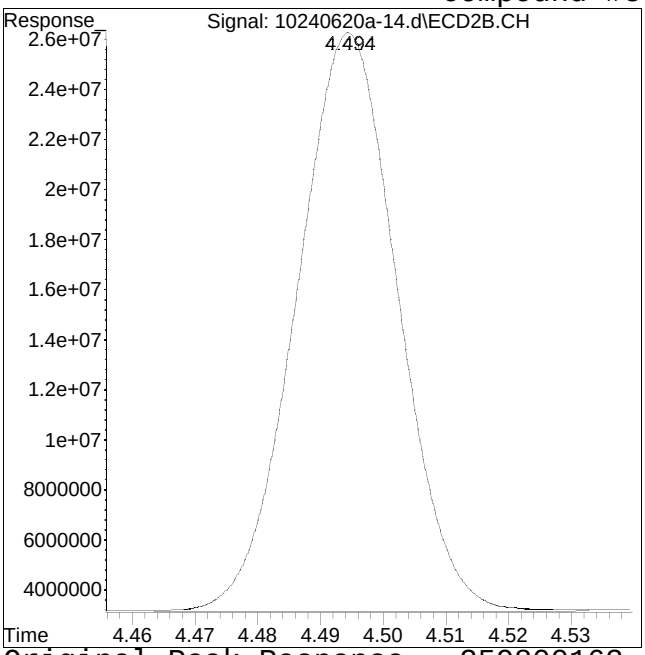


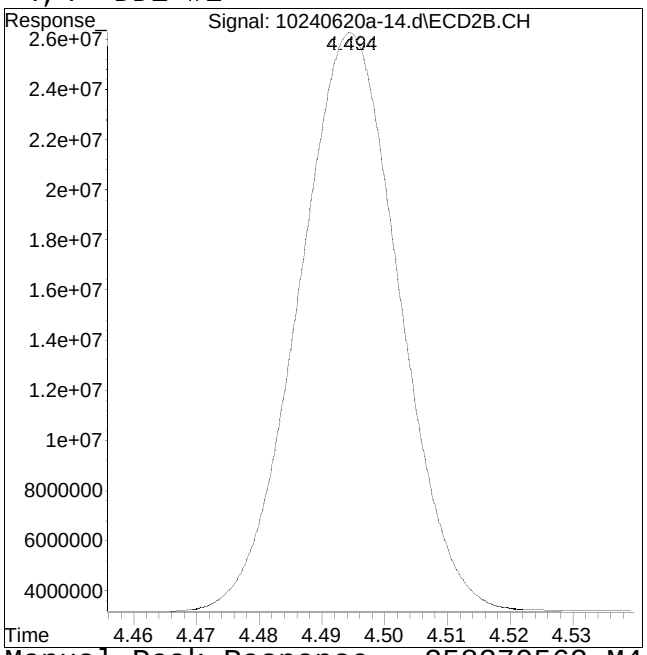
Original Peak Response = 1037465986 Manual Peak Response = 1020377888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #53: 4,4'-DDE #2



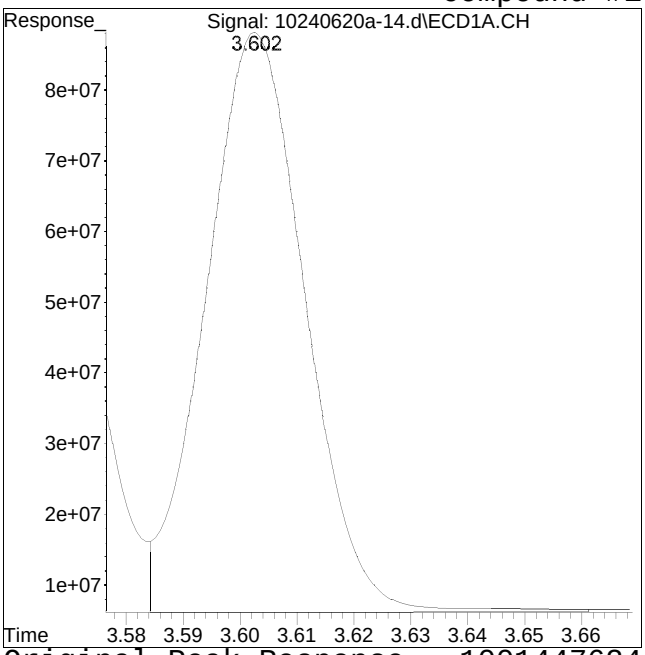


Original Peak Response = 259800163 Manual Peak Response = 258370562 M4
M4 = Poor automated baseline construction.

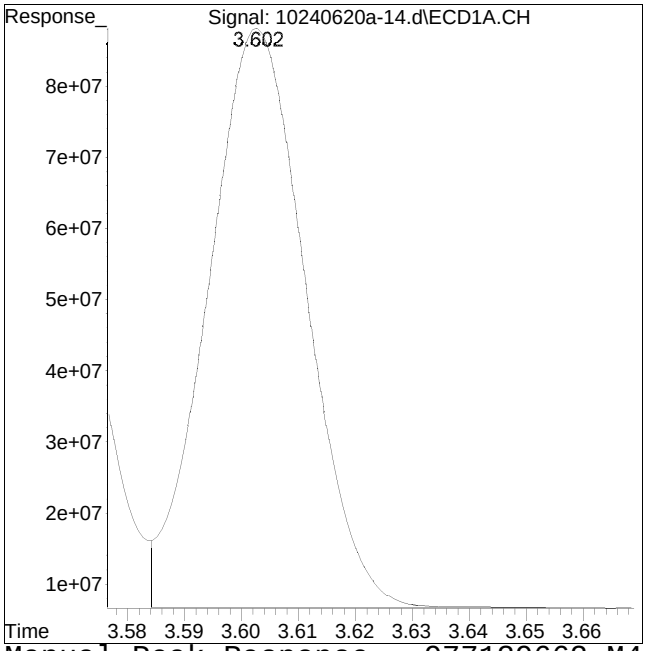
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #16: Endosulfan I



Original Peak Response = 1001447624



Manual Peak Response = 977139662 M4

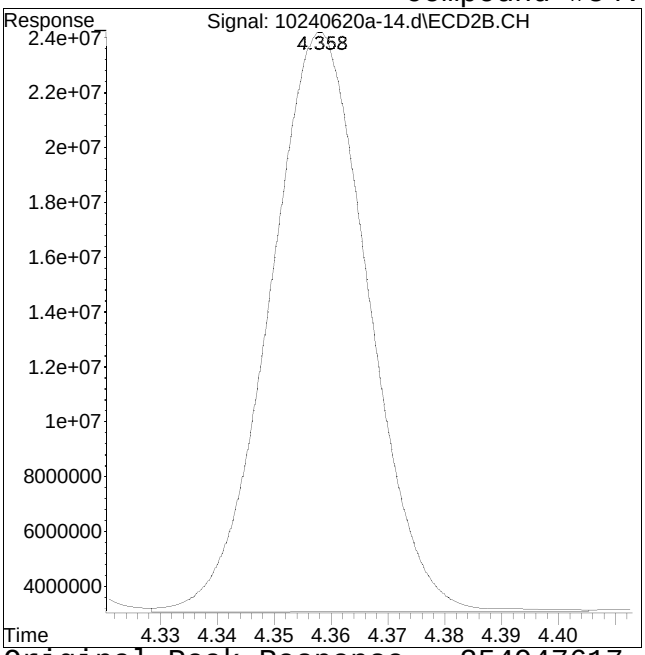
M4 = Poor automated baseline construction.

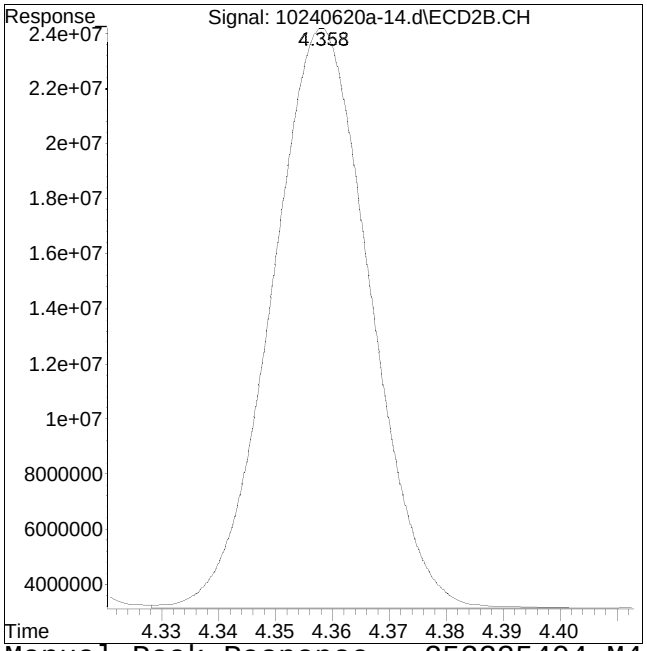
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-14.d
Date Inj'd : 6/20/2024 9:13
Sample : WG1936774-4,42,, ms

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:40 am

Compound #54: Endosulfan I #2



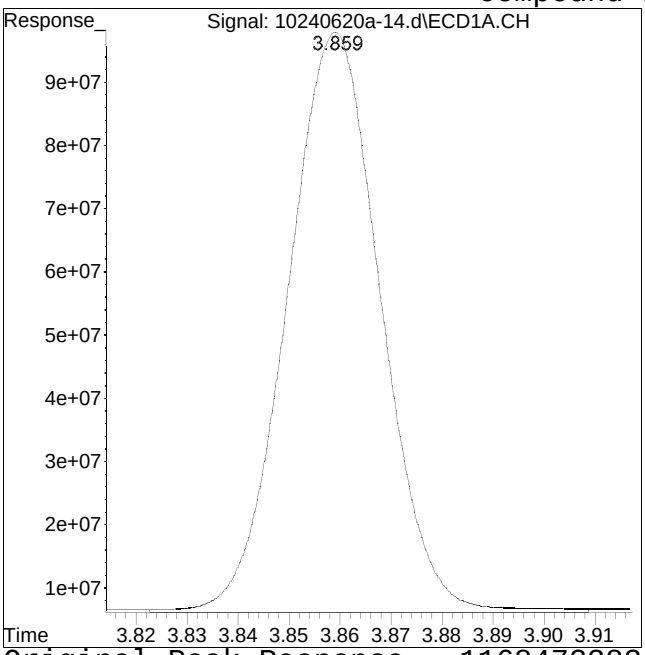


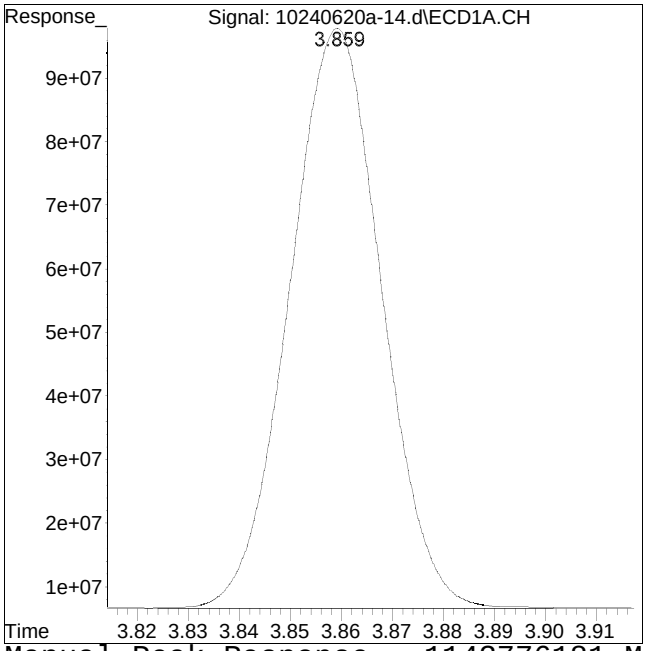
Original Peak Response = 254947617 Manual Peak Response = 252335404 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #17: Dieldrin



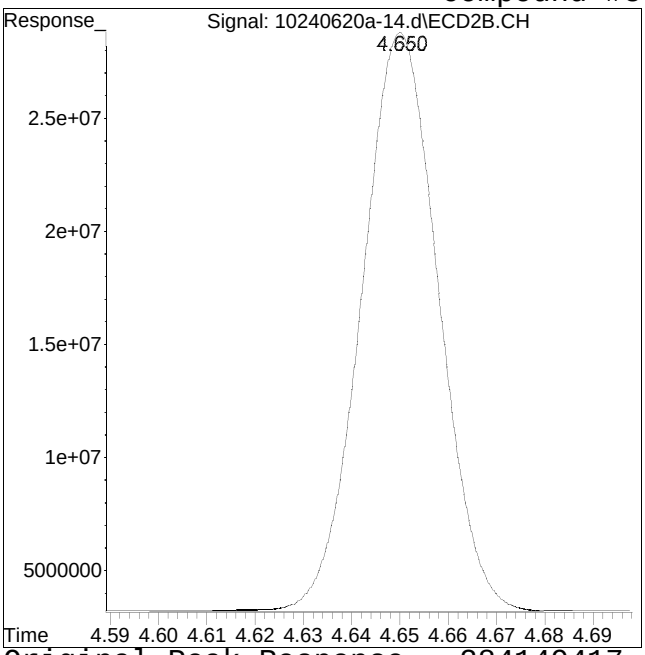


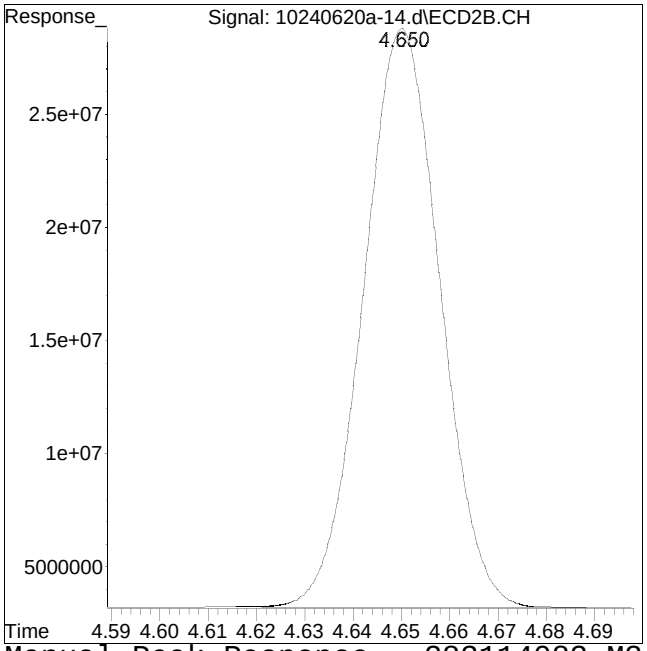
Original Peak Response = 1168472383 Manual Peak Response = 1143776181 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #55: Dieldrin #2



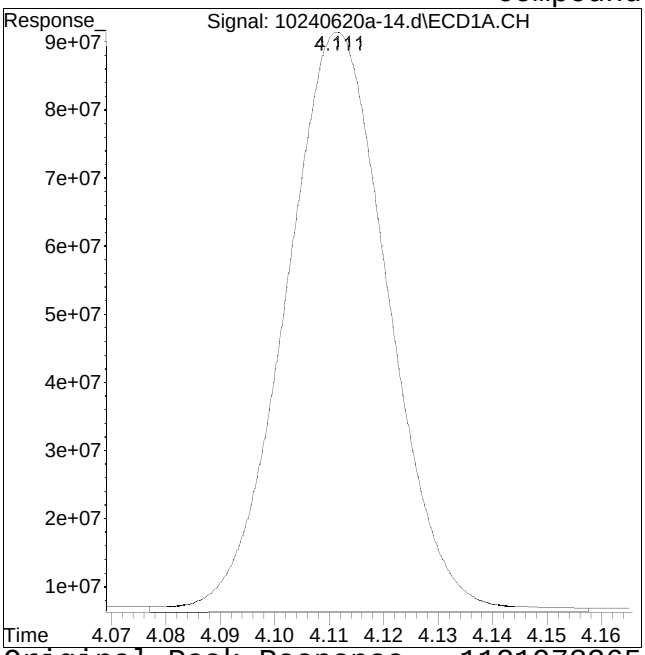


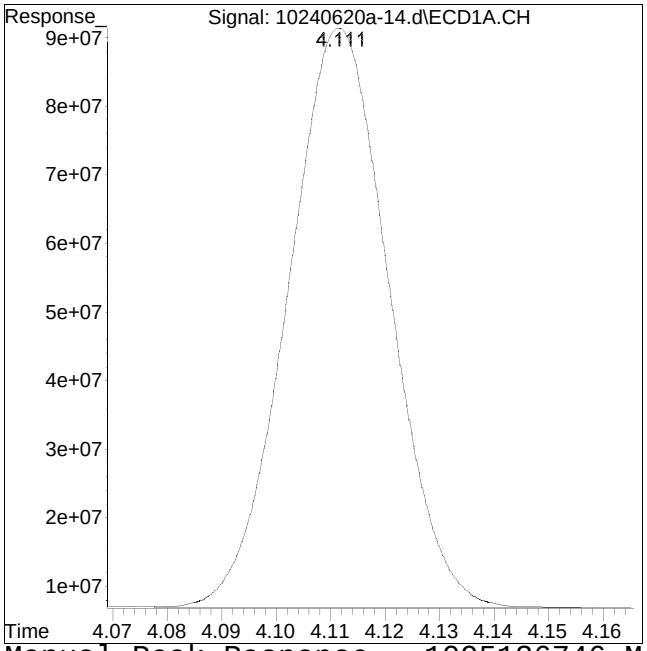
Original Peak Response = 284149417 Manual Peak Response = 283114083 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #18: Endrin



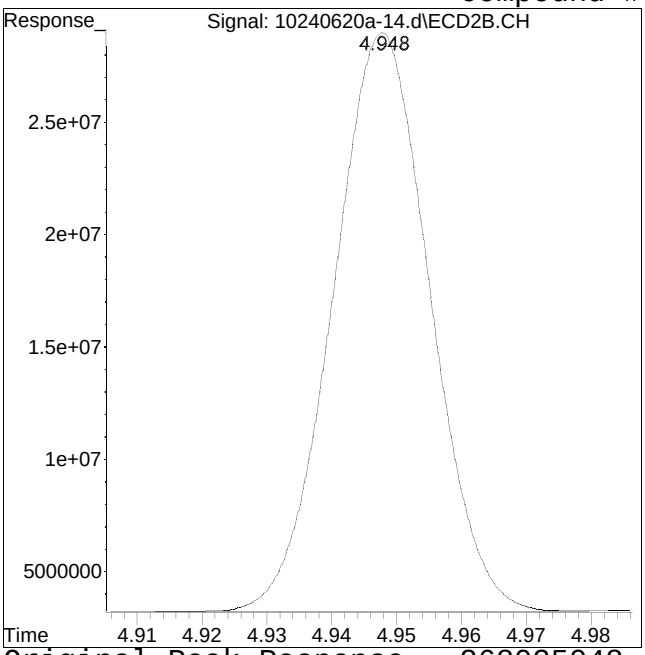


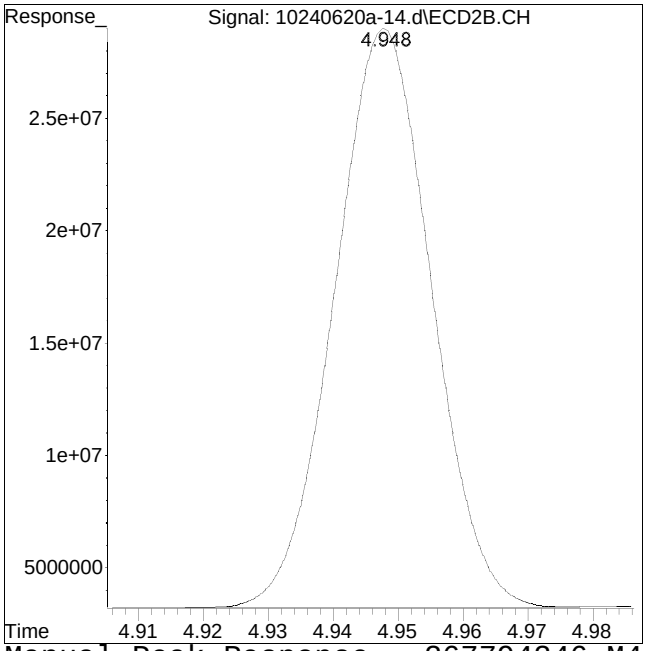
Original Peak Response = 1121973365 Manual Peak Response = 1095136746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #56: Endrin #2



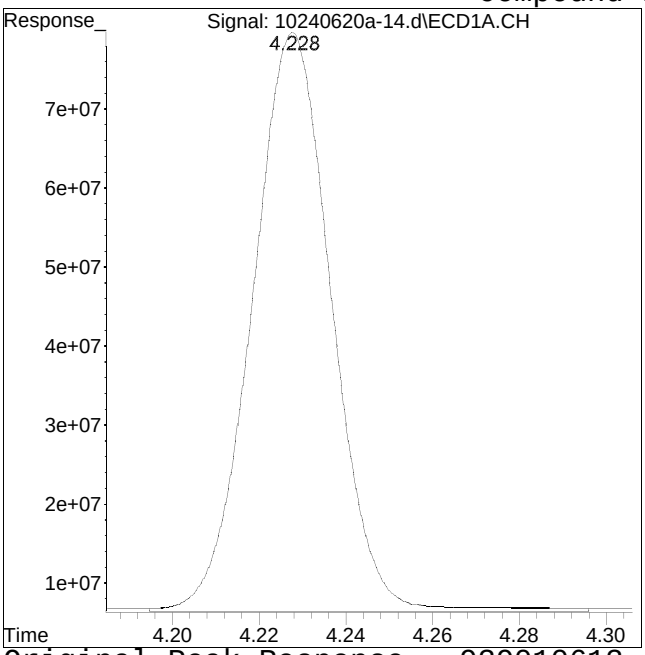


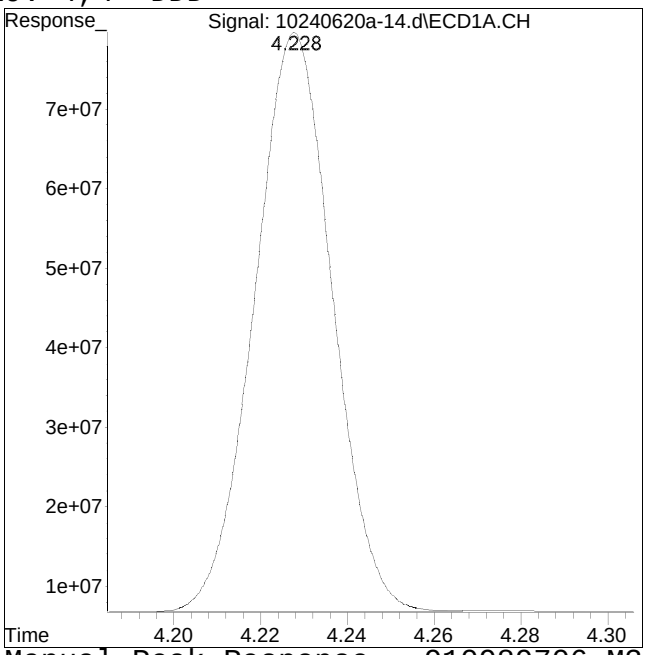
Original Peak Response = 268025048 Manual Peak Response = 267794246 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #19: 4,4'-DDD



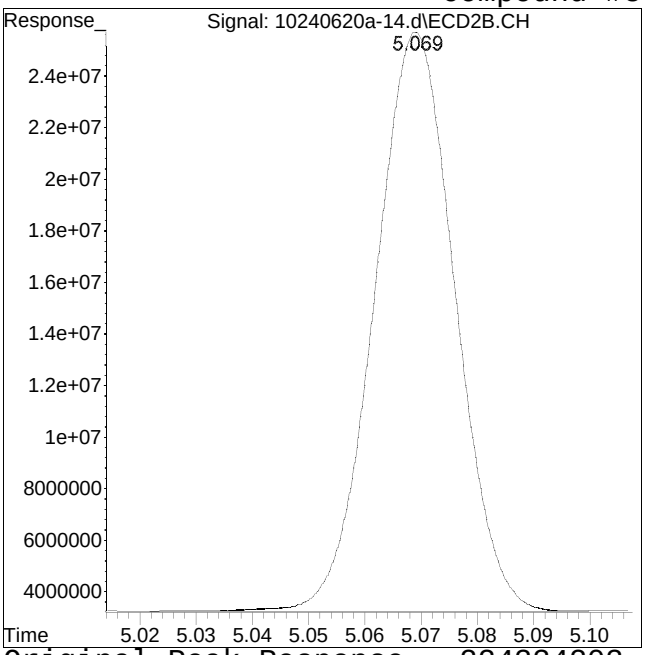


Original Peak Response = 939010613 Manual Peak Response = 910989706 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

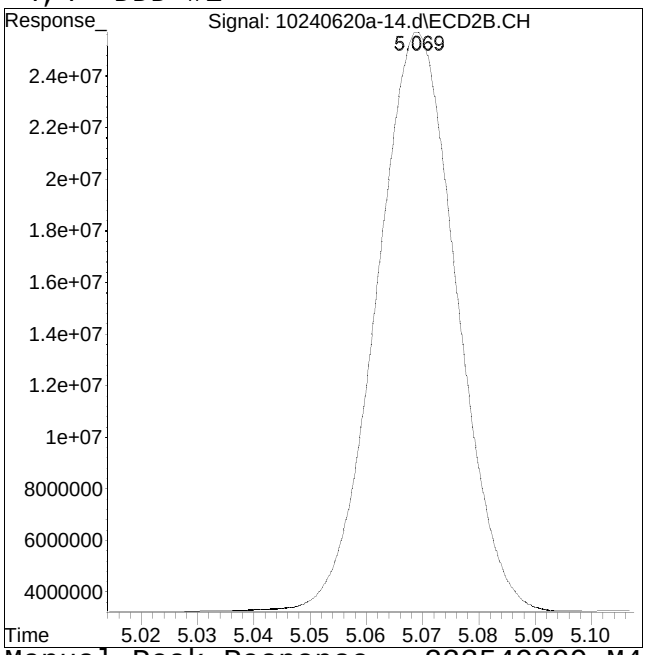
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 224334203



Manual Peak Response = 223549899 M4

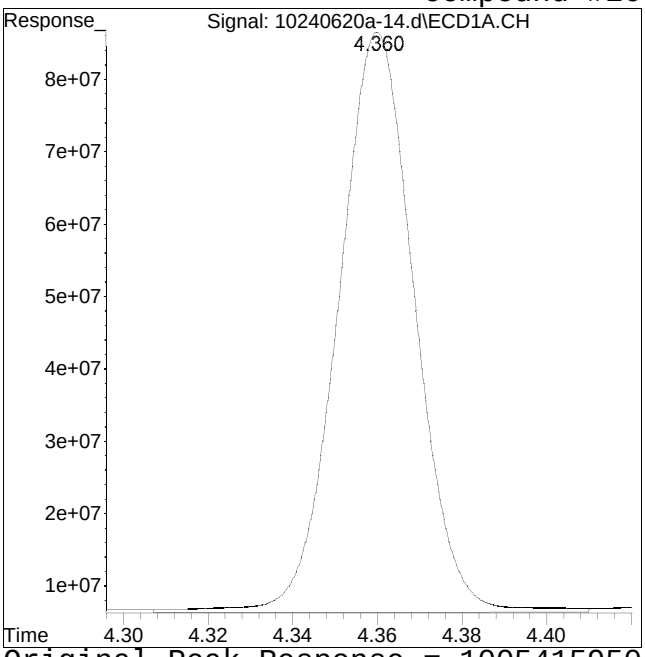
M4 = Poor automated baseline construction.

Manual Integration Report

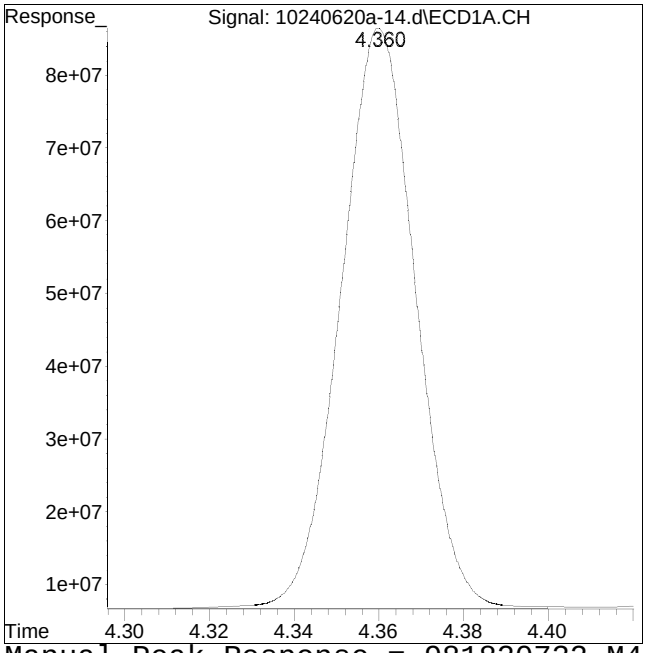
Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-14.d
Date Inj'd : 6/20/2024 9:13
Sample : WG1936774-4,42,, ms

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:40 am

Compound #20: Endosulfan II



Original Peak Response = 1005415950



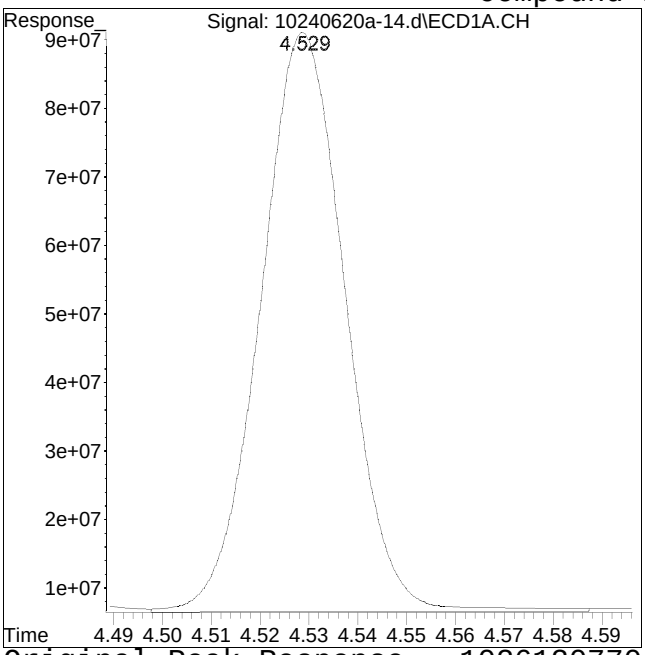
Manual Peak Response = 981820732 M4

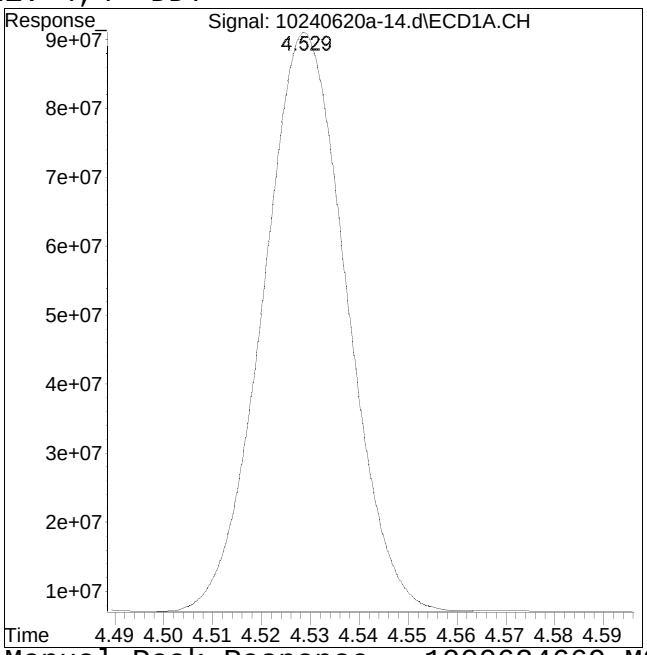
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #21: 4,4'-DDT



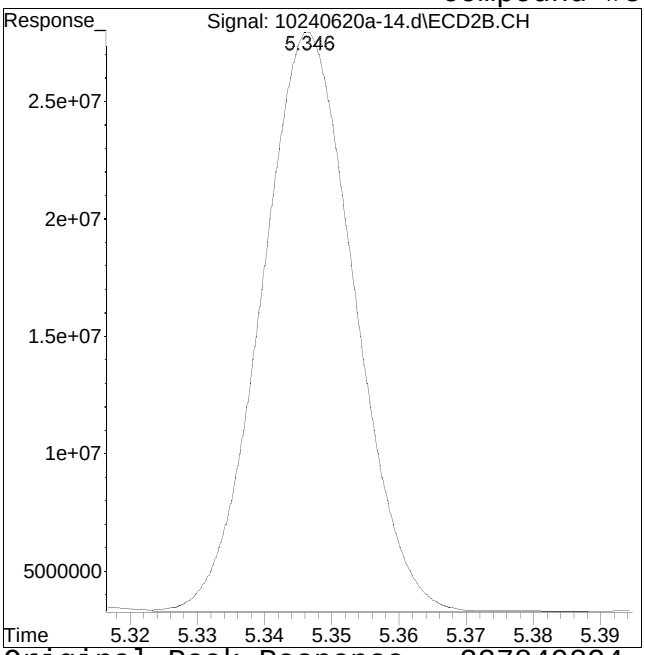


Original Peak Response = 1026120770 Manual Peak Response = 1000624669 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

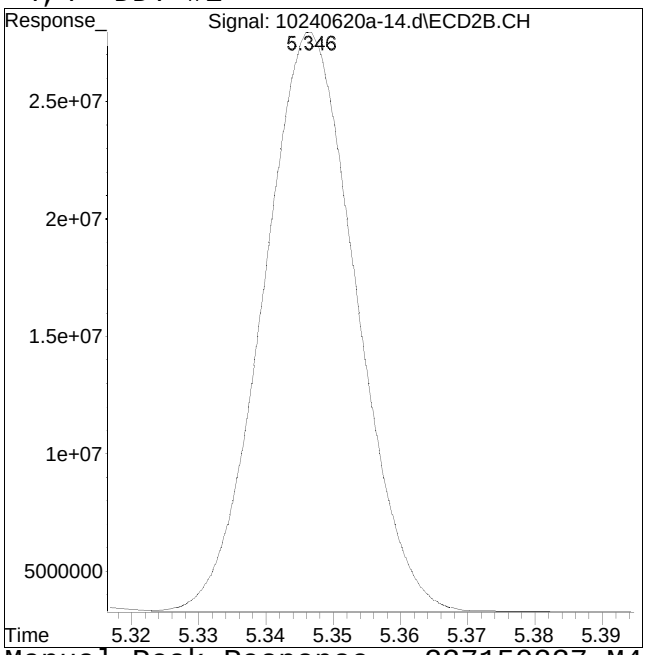
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 237849224



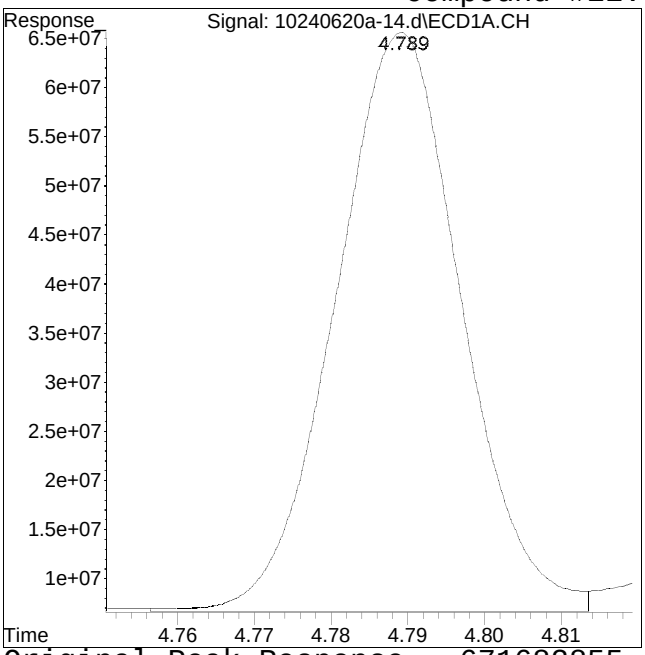
Manual Peak Response = 237150237 M4

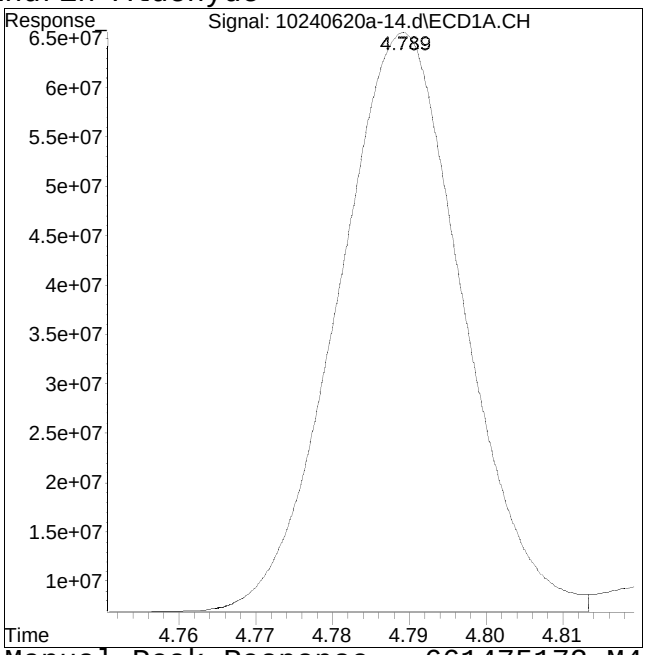
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #22: Endrin Aldehyde



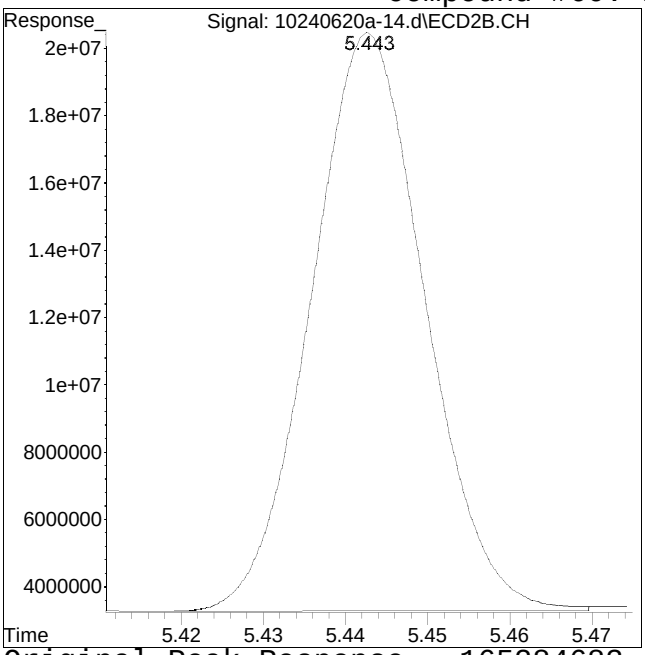


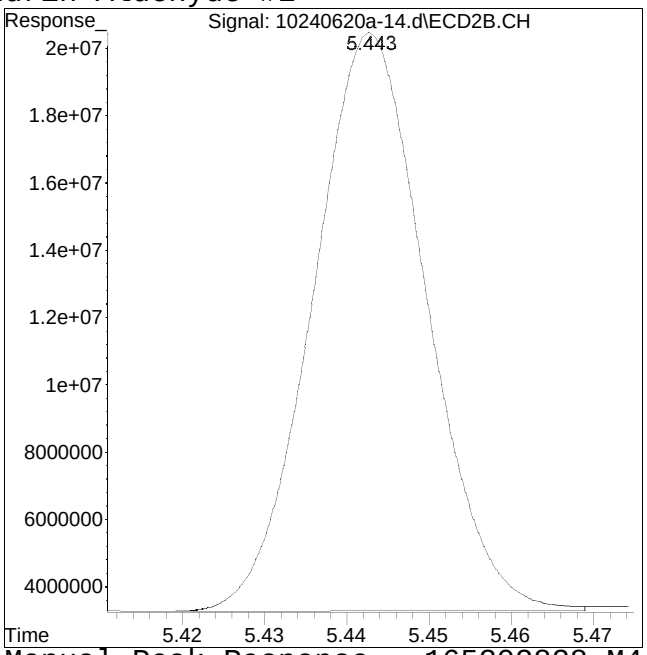
Original Peak Response = 671682855 Manual Peak Response = 661475172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #60: Endrin Aldehyde #2



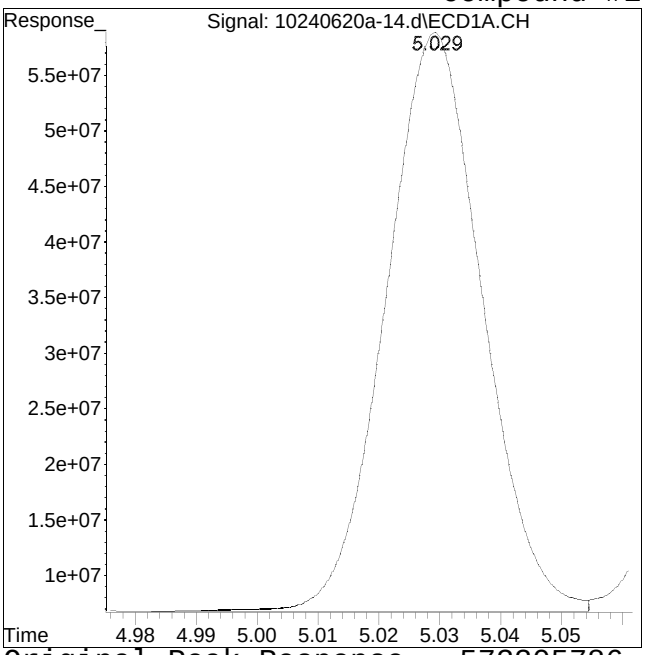


Original Peak Response = 165284683 Manual Peak Response = 165302828 M4
M4 = Poor automated baseline construction.

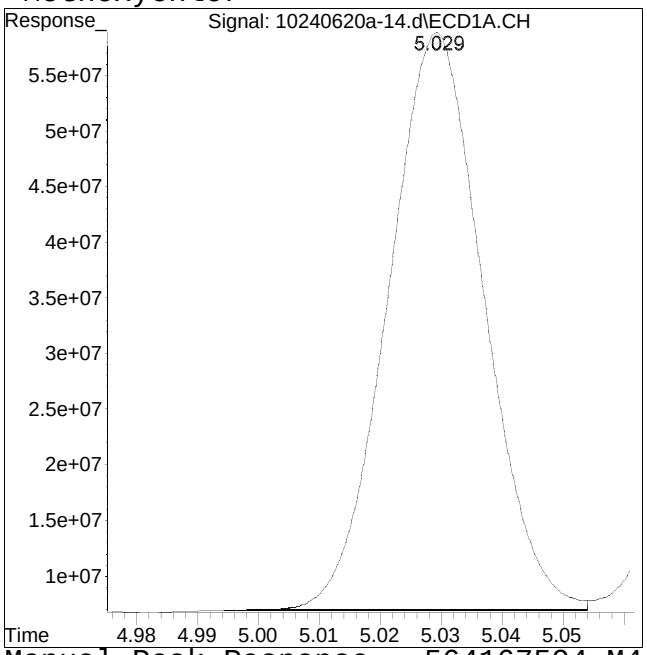
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #23: Methoxychlor



Original Peak Response = 573305786



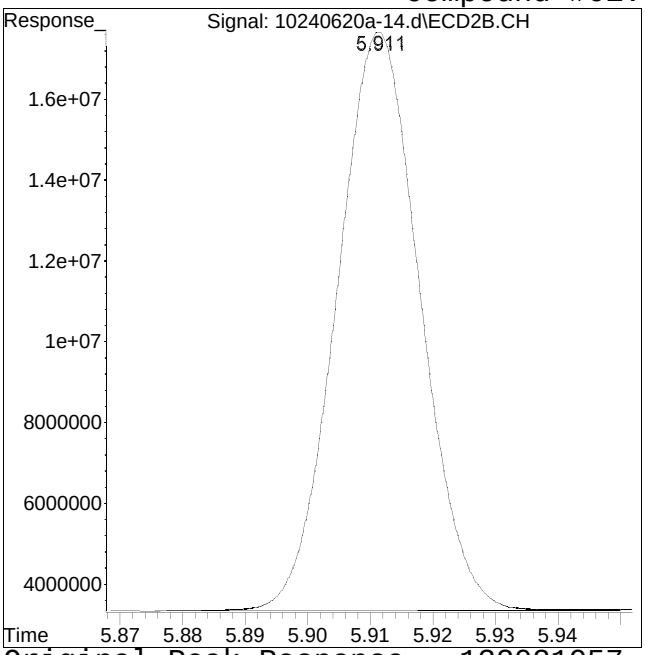
Manual Peak Response = 564167594 M4

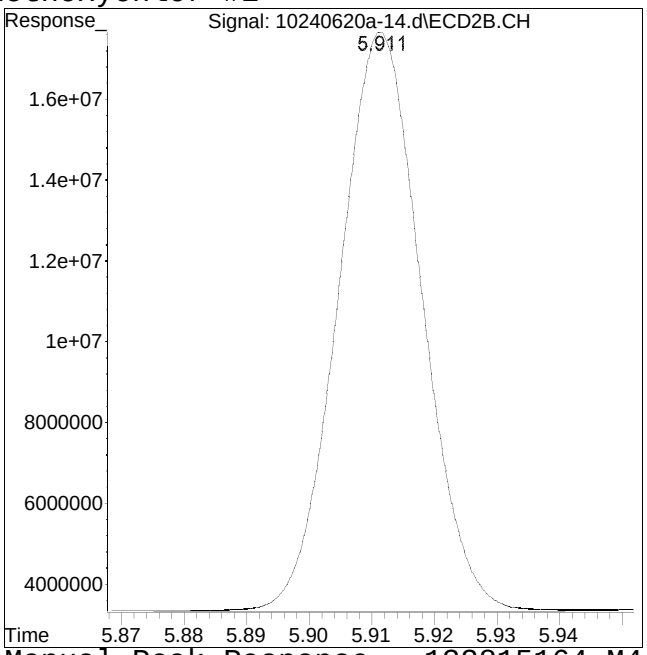
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #61: Methoxychlor #2



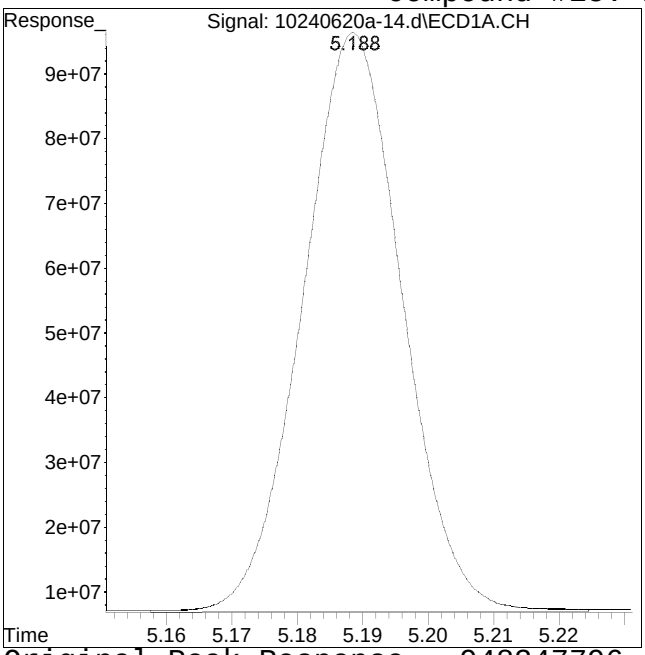


Original Peak Response = 132021957 Manual Peak Response = 132815164 M4
M4 = Poor automated baseline construction.

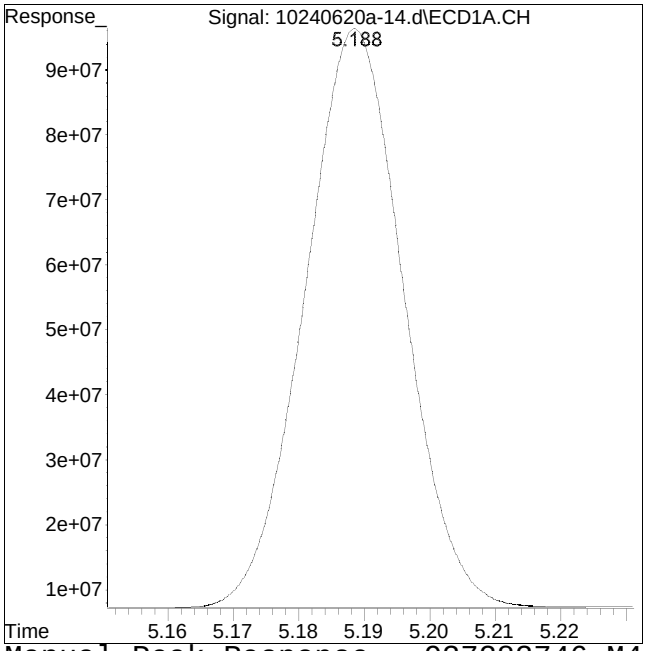
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 948347796



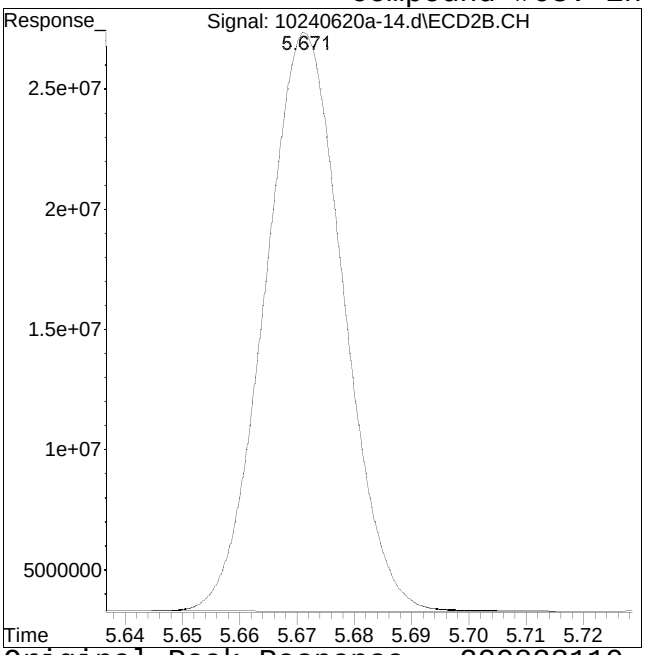
Manual Peak Response = 937283746 M4

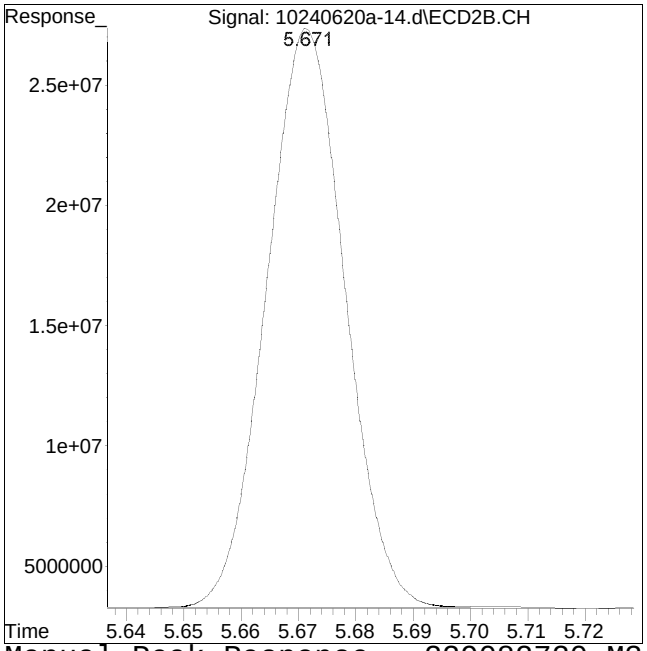
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #63: Endosulfan Sulfate #2



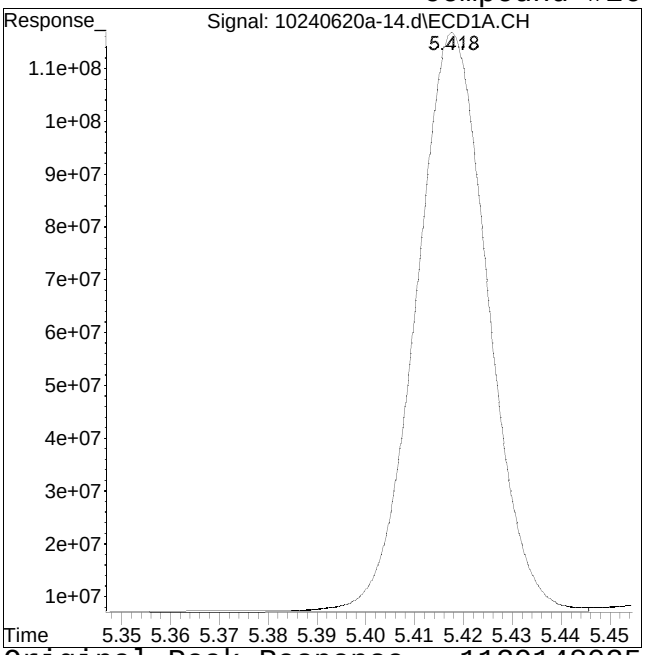


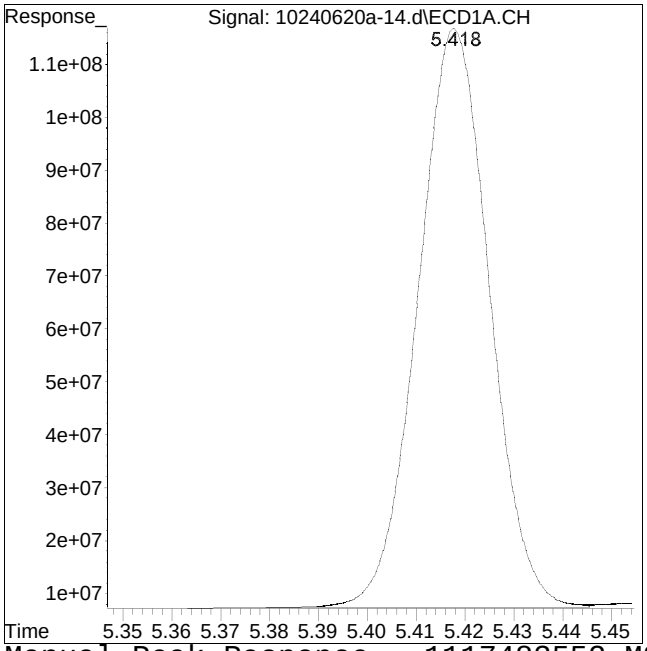
Original Peak Response = 229823110 Manual Peak Response = 229082720 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #26: Endrin Ketone



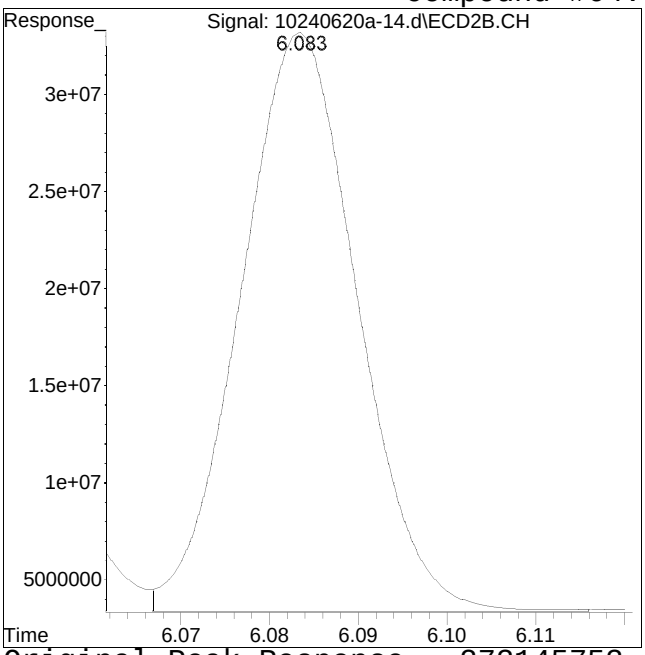


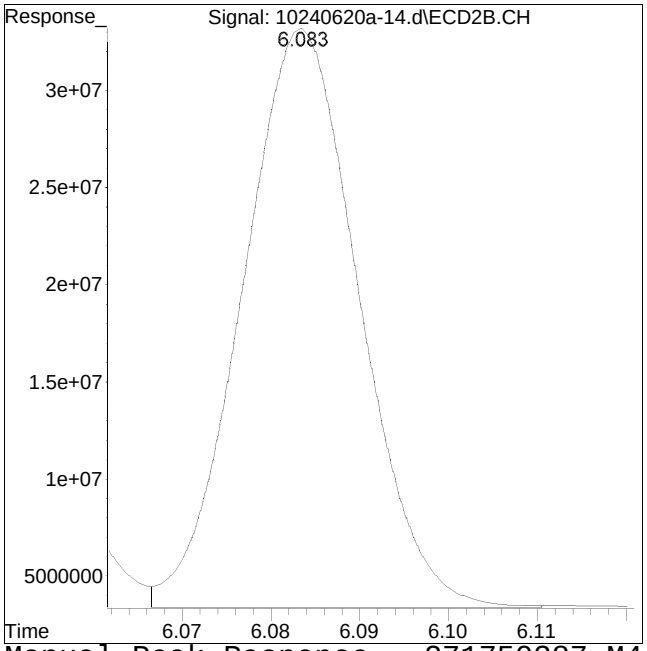
Original Peak Response = 1129148025 Manual Peak Response = 1117483552 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #64: Endrin Ketone #2



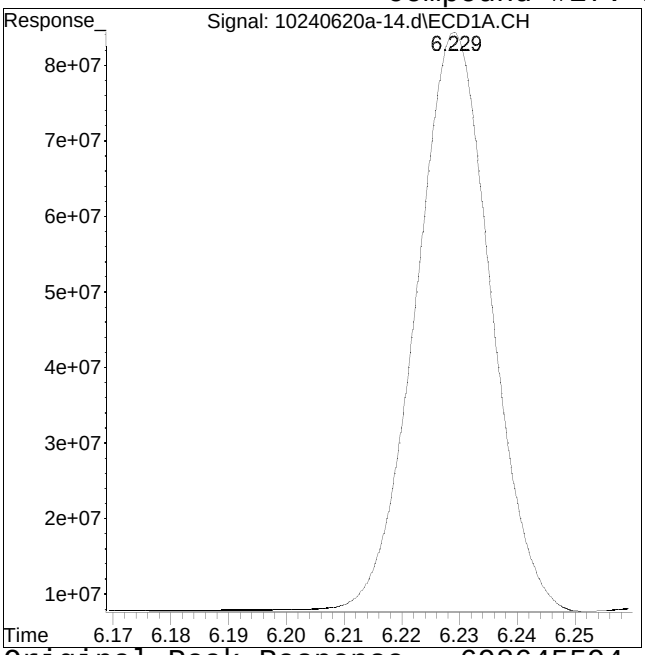


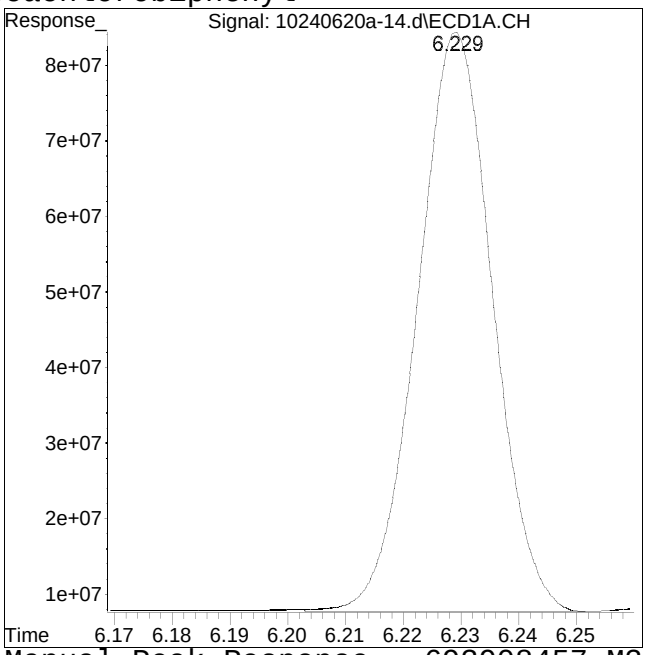
Original Peak Response = 273145753 Manual Peak Response = 271750387 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #27: Decachlorobiphenyl



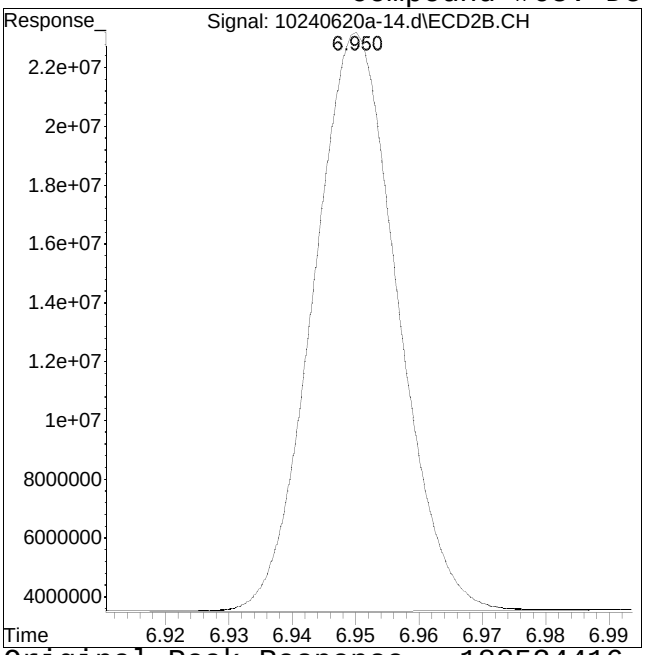


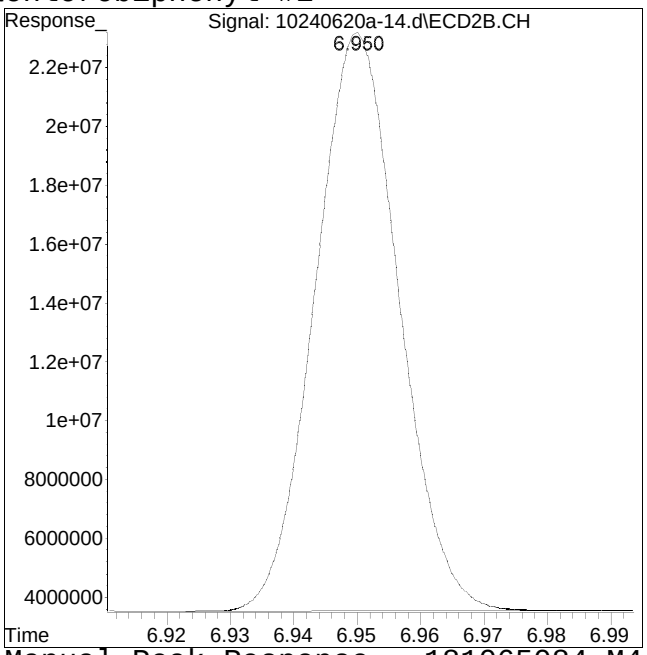
Original Peak Response = 698645594 Manual Peak Response = 693908457 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-14.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:13 Instrument : Pest 10
Sample : WG1936774-4,42,, ms Quant Date : 6/20/2024 9:40 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 182524416 Manual Peak Response = 181065084 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:24
Operator : PEST10:mmg
Sample : WG1936774-5,42,, msd
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.262	1.378	516.8E6	137.6E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 464953126				Recovery = 111.15%		
	Standard Area 1 : #2 = 137931823				Recovery = 99.75%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.599	1.859	811.2E6	218.6E6	36.157M4	42.256M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =	72.31%	84.51%	
27) s	Decachlorobi	6.230	6.951	744.1E6	177.8E6	44.443M4	44.635M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	88.89%	89.27%	
Target Compounds							
4) t	alpha-BHC	1.905	2.280	1312.0E6	335.2E6	42.022M3	45.507
5) t	gamma-BHC (l	2.103	2.567	1194.4E6	306.9E6	40.366	44.350
6) t	beta-BHC	2.158	2.632	505.9E6	140.6E6	42.757M4	46.342
7) t	delta-BHC	2.283	2.900	1149.4E6	293.2E6	39.366M4	42.197M3
8) t	Heptachlor	2.441	2.966	1206.1E6	298.0E6	42.916M4	43.366M3
9) t	Aldrin	2.678	3.287	1084.7E6	271.2E6	40.927M4	43.338M4
12) t	Heptachlor E	3.213	3.906	1048.3E6	260.6E6	41.519M3	41.657M4
13) t	gamma-Chlord	3.335	4.127	1077.6E6	272.1E6	46.657	48.885M3
14) t	alpha-Chlord	3.468	4.298	1030.2E6	265.6E6	39.268	42.433
15) t	4,4'-DDE	3.564	4.495	1028.1E6	254.7E6	41.379	44.010
16) t	Endosulfan I	3.602	4.359	970.9E6	248.5E6	40.389M4	42.683
17) t	Dieldrin	3.858	4.650	1138.9E6	279.9E6	45.906M4	48.032M3
18) t	Endrin	4.111	4.948	1081.9E6	264.2E6	42.456M4	44.193
19) t	4,4'-DDD	4.226	5.069	910.3E6	220.8E6	45.068M3	47.431
20) t	Endosulfan I	4.359	5.146	979.6E6	241.2E6	44.537M4	46.076
21) t	4,4'-DDT	4.528	5.347	994.9E6	235.8E6	44.508M4	44.650
22) t	Endrin Aldeh	4.788	5.443	647.1E6	160.2E6	38.552	37.793M4

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:24
Operator : PEST10:mmg
Sample : WG1936774-5,42,, msd
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240620A\10240620a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.028	5.911	563.7E6	131.7E6	54.609M4	49.684
25) t Endosulfan S	5.188	5.671	938.6E6	227.5E6	43.034M4	43.601M4
26) t Endrin Keton	5.417	6.083	1120.1E6	271.1E6	46.820M4	47.676M3
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

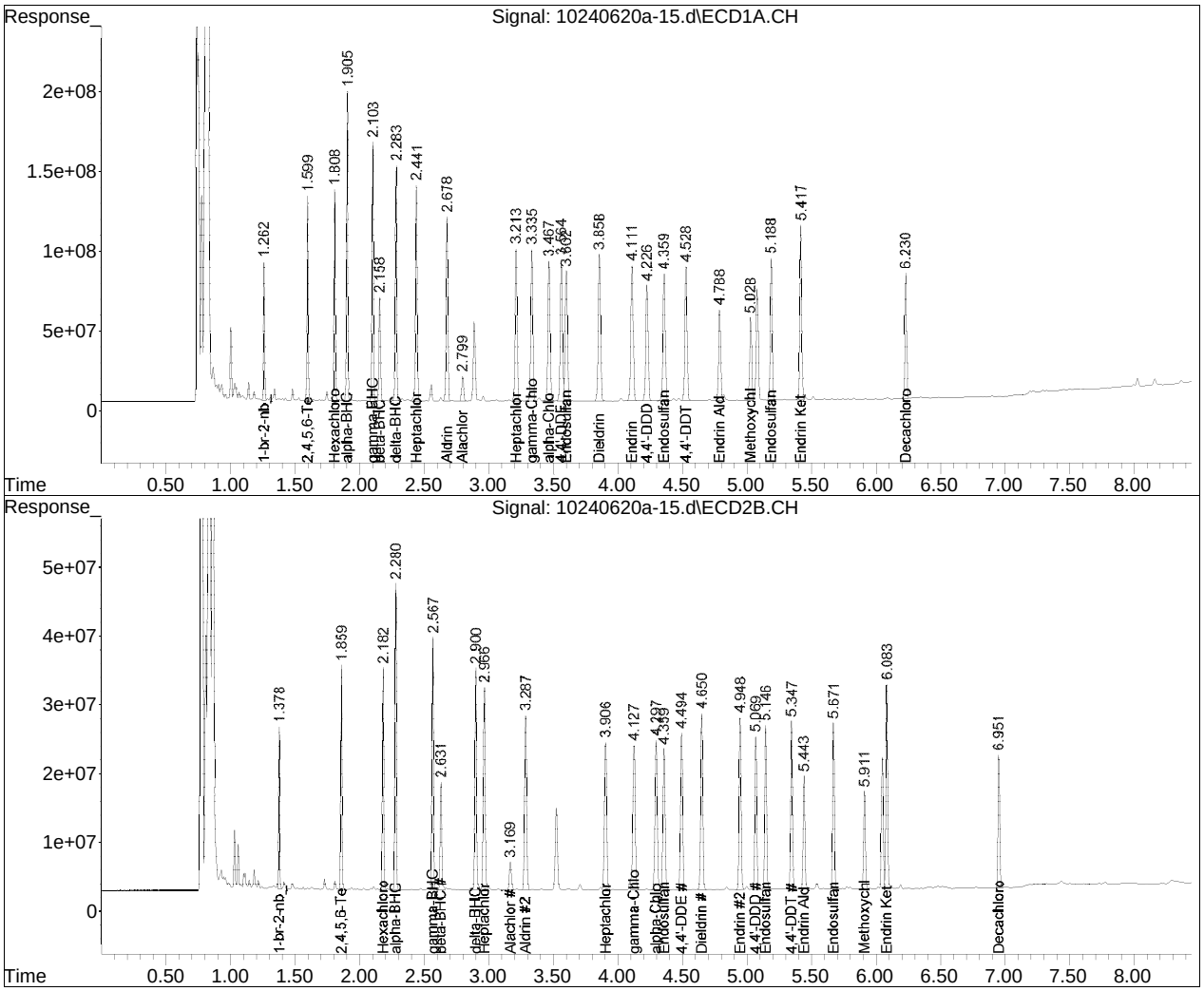
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240620A\10240620a-03.d•

Data Path : I:\PEST\Pest10\2024\240620A\
Data File : 10240620a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Jun 2024 9:24
Operator : PEST10:mmg
Sample : WG1936774-5,42,, msd
Misc : WG1936891,WG1936774,ical21109
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 09:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240620A\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 20 07:23:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

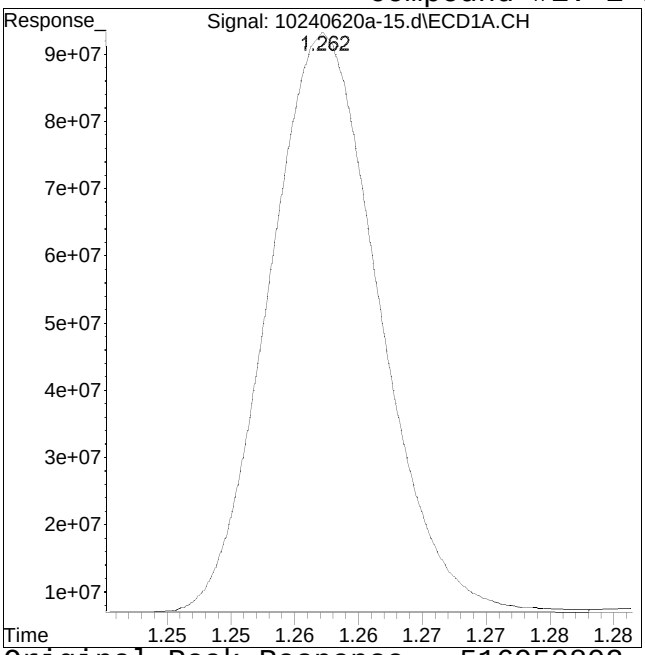


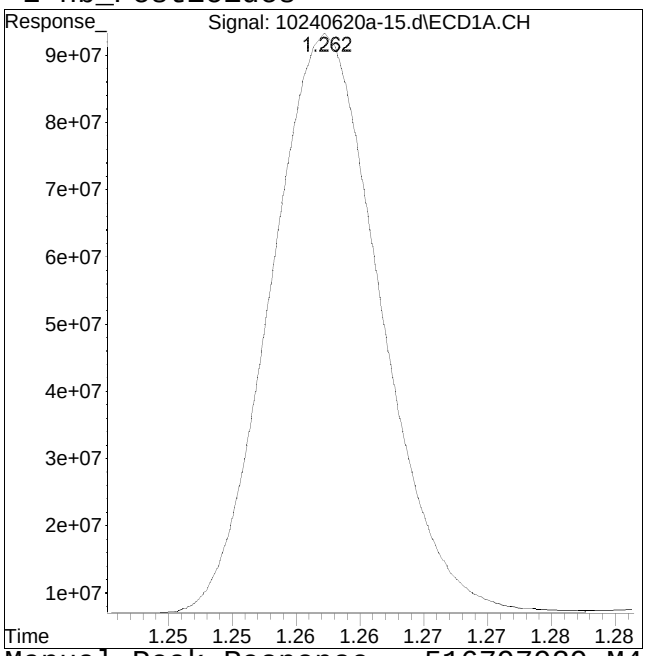
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620Q
Data File : 10240620a-15.d
Date Inj'd : 6/20/2024 9:24
Sample : WG1936774-5,42,, msd

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:mmg
Instrument : Pest 10
Quant Date : 6/20/2024 9:40 am

Compound #1: 1-br-2-nb_Pesticides



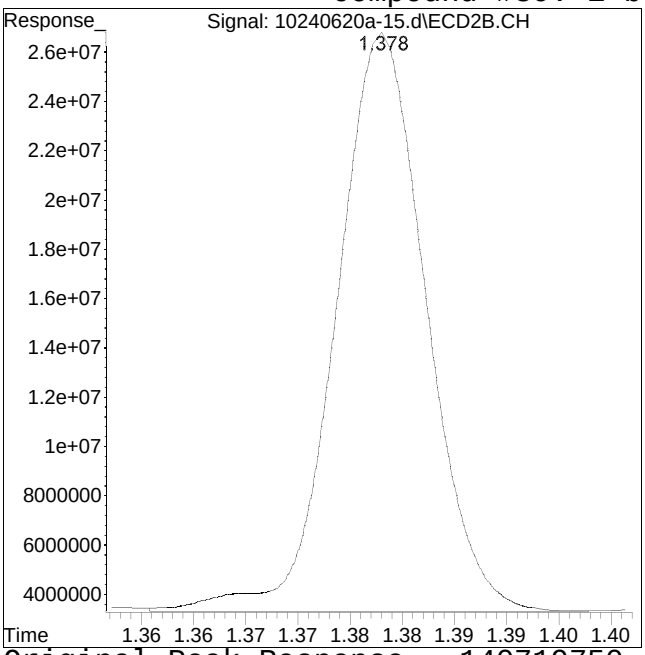


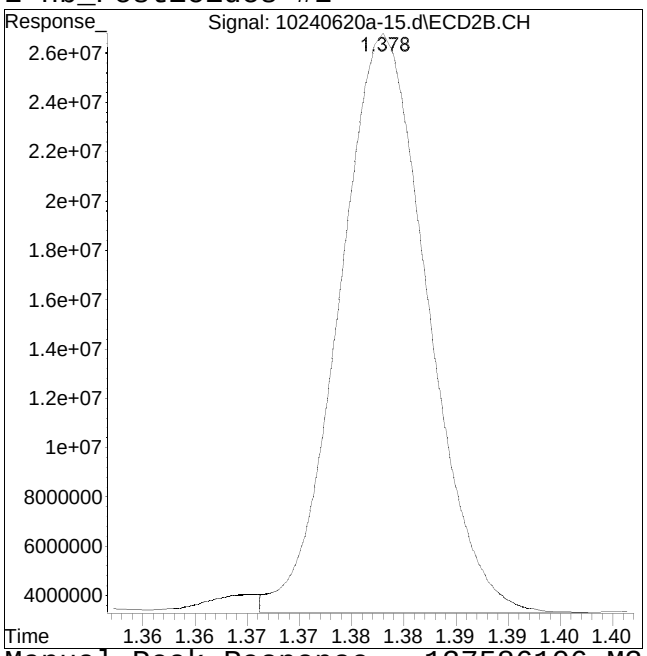
Original Peak Response = 516950802 Manual Peak Response = 516797929 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #39: 1-br-2-nb_Pesticides #2



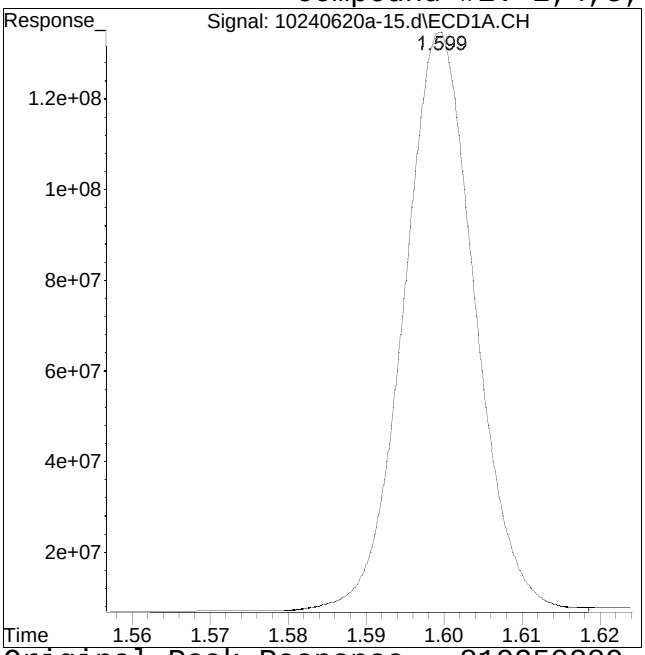


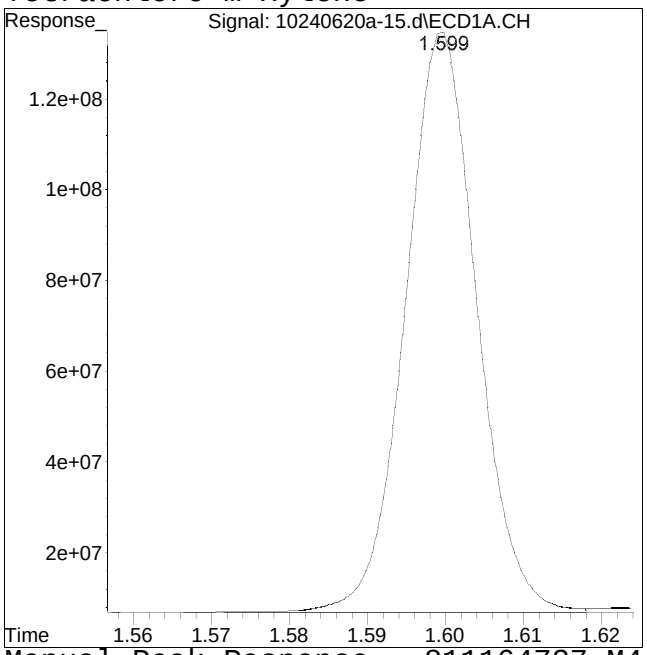
Original Peak Response = 140719750 Manual Peak Response = 137586106 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



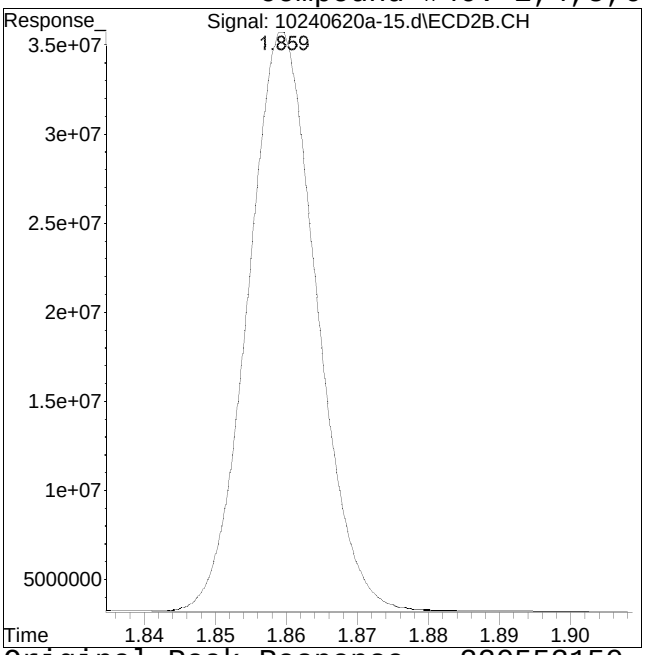


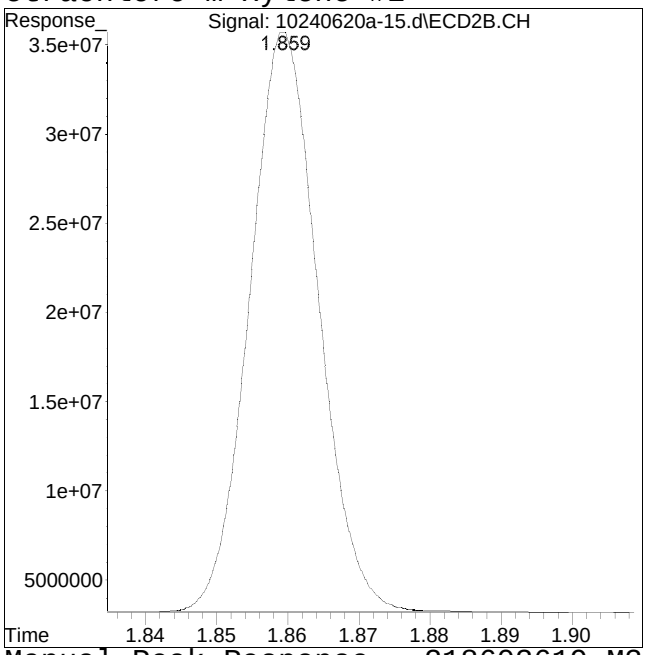
Original Peak Response = 819259289 Manual Peak Response = 811164727 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



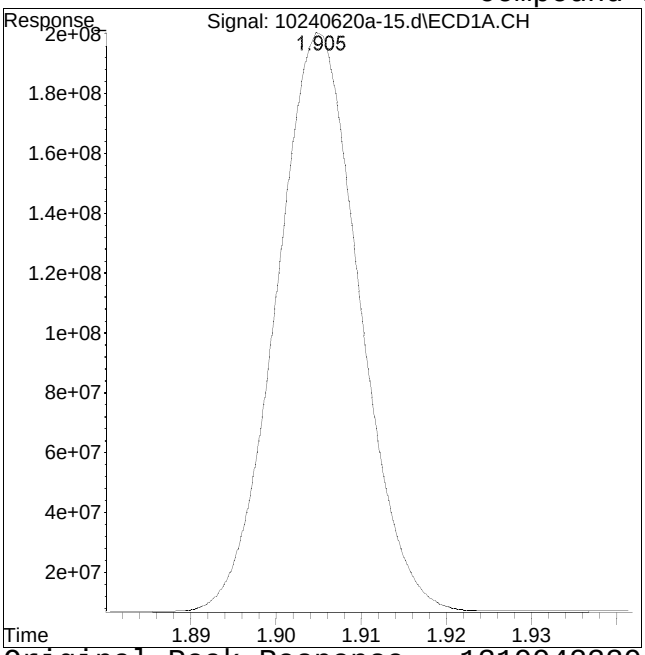


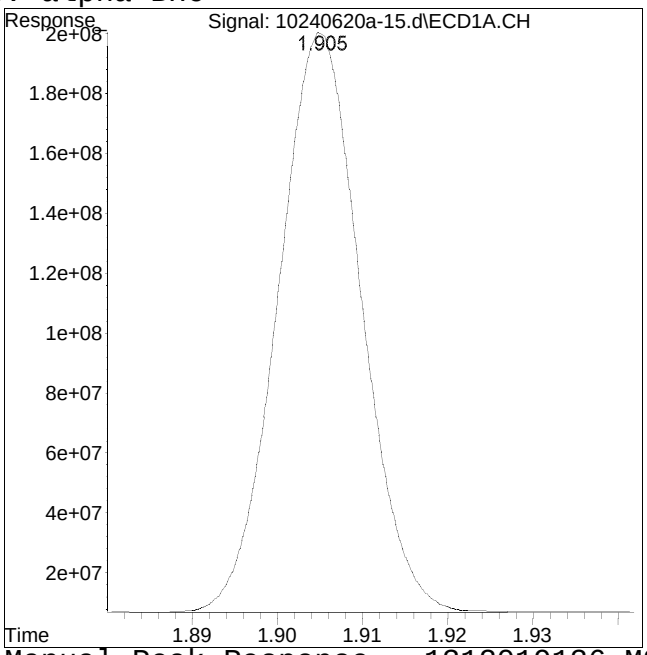
Original Peak Response = 220553150 Manual Peak Response = 218603619 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #4: alpha-BHC



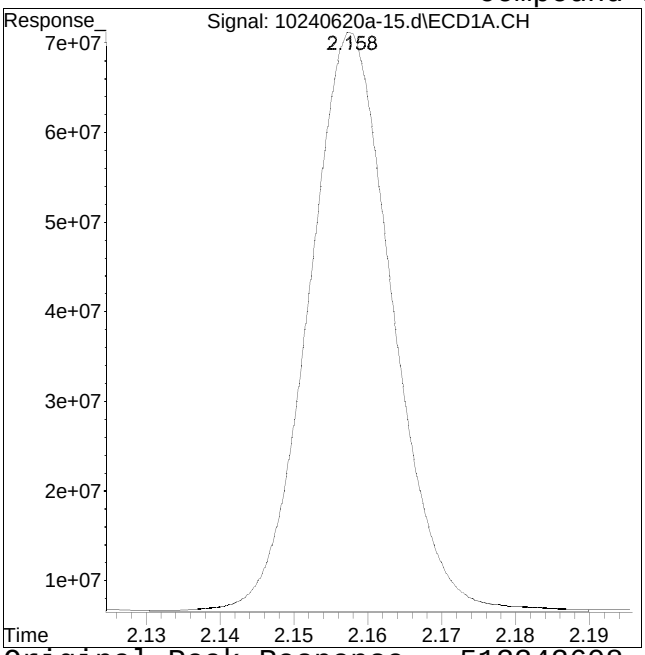


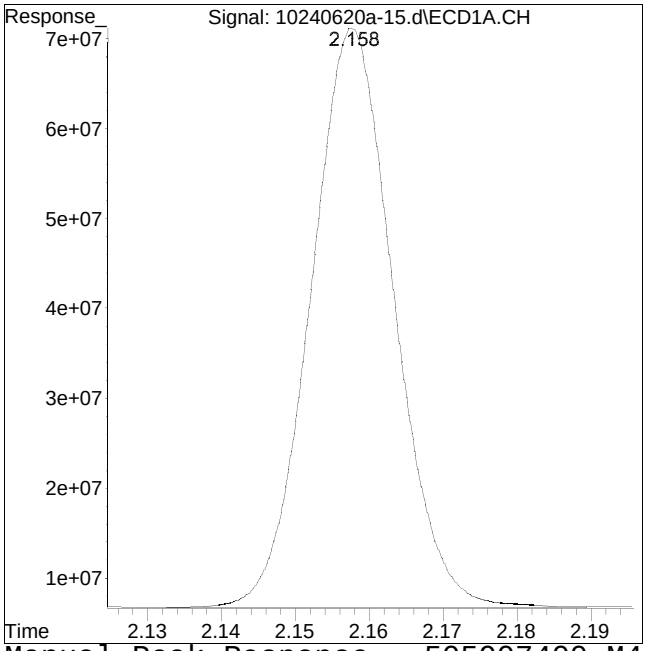
Original Peak Response = 1319942339 Manual Peak Response = 1312019136 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #6: beta-BHC



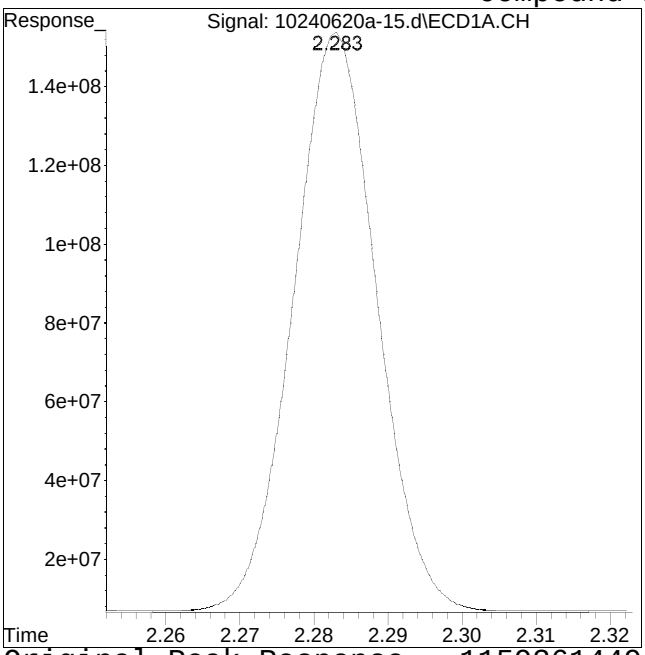


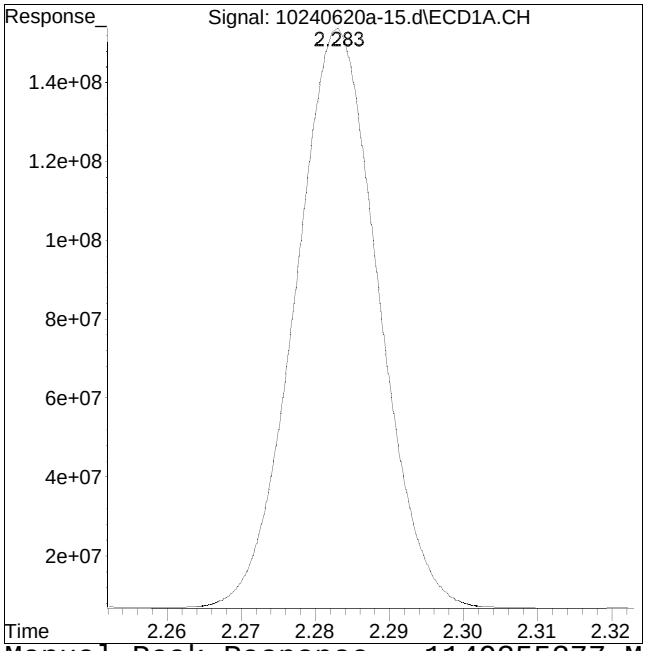
Original Peak Response = 513342608 Manual Peak Response = 505907400 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #7: delta-BHC



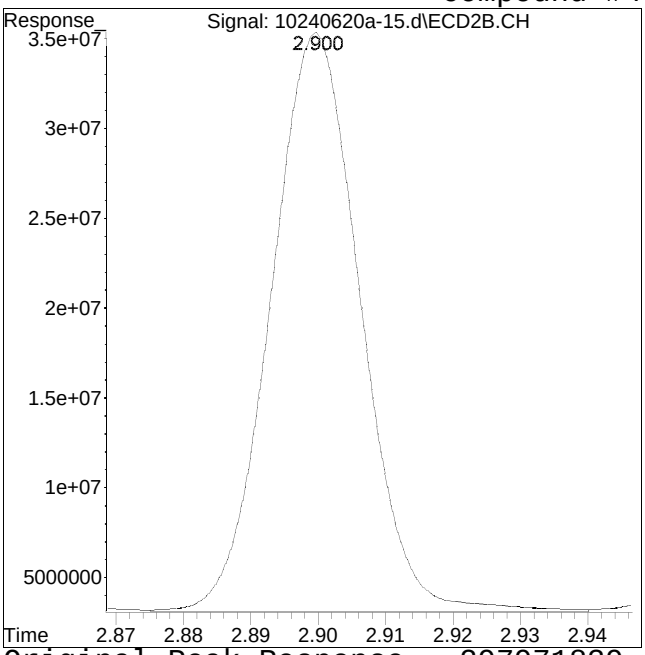


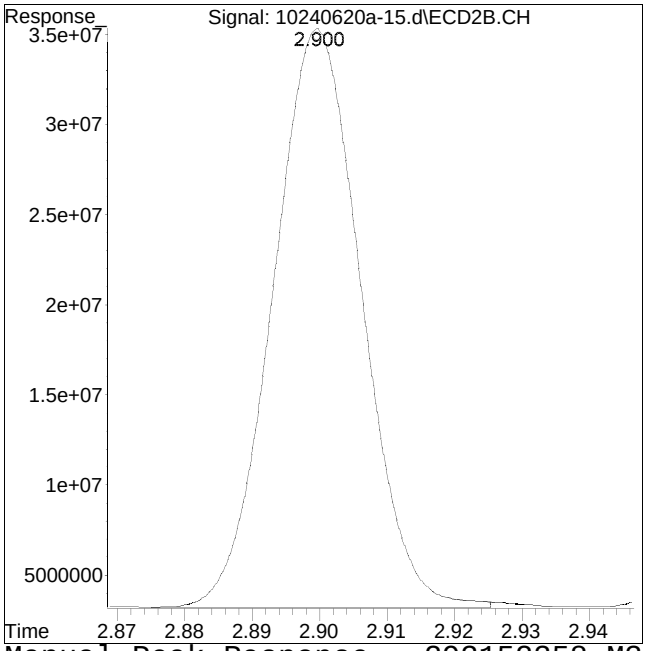
Original Peak Response = 1159361449 Manual Peak Response = 1149355377 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #45: delta-BHC #2



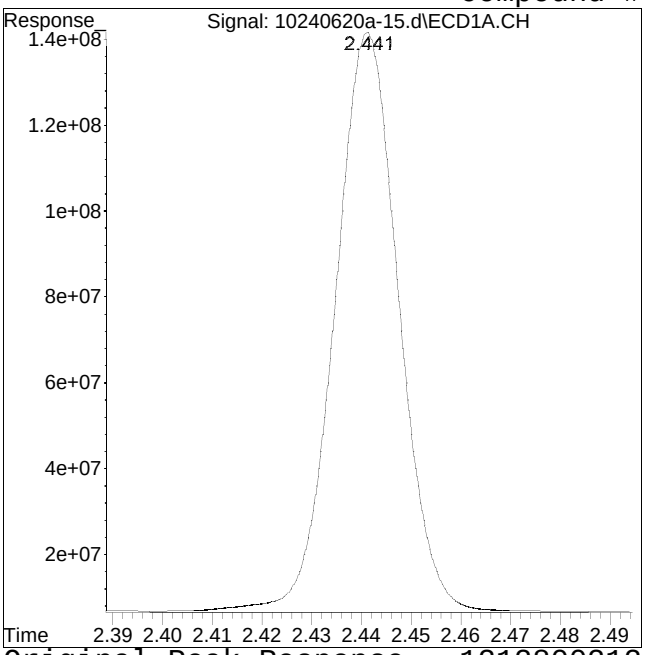


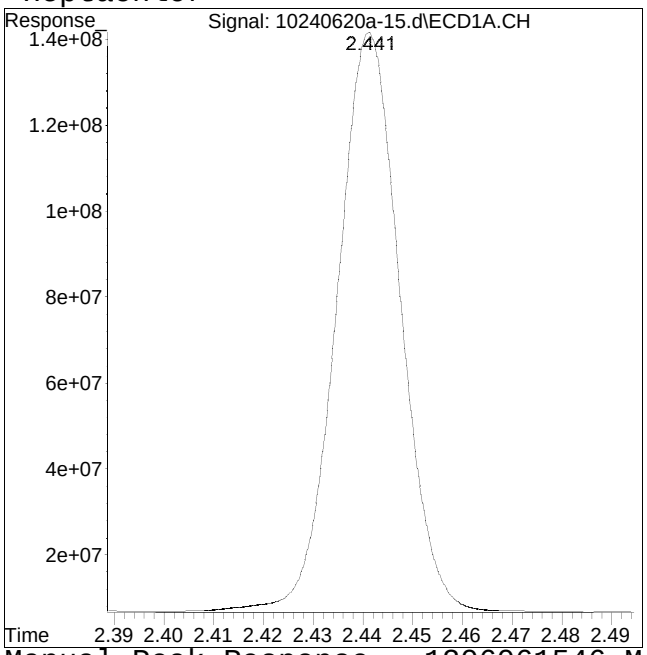
Original Peak Response = 297971839 Manual Peak Response = 293152358 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #8: Heptachlor



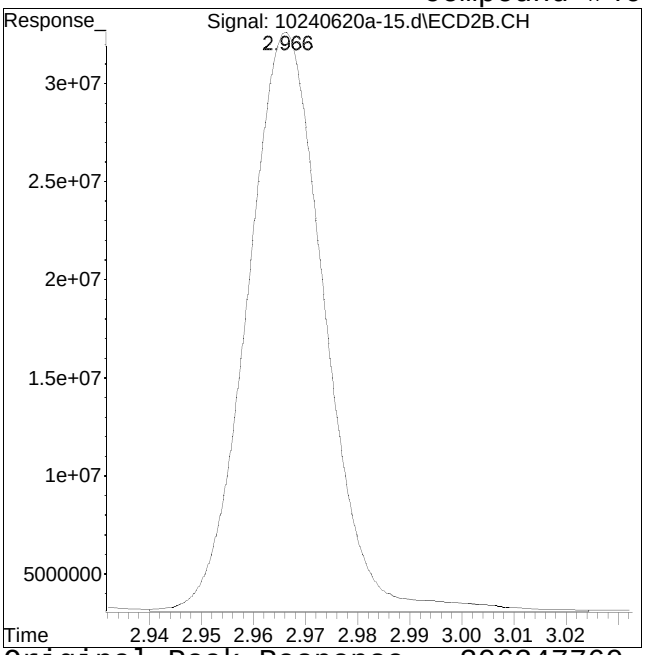


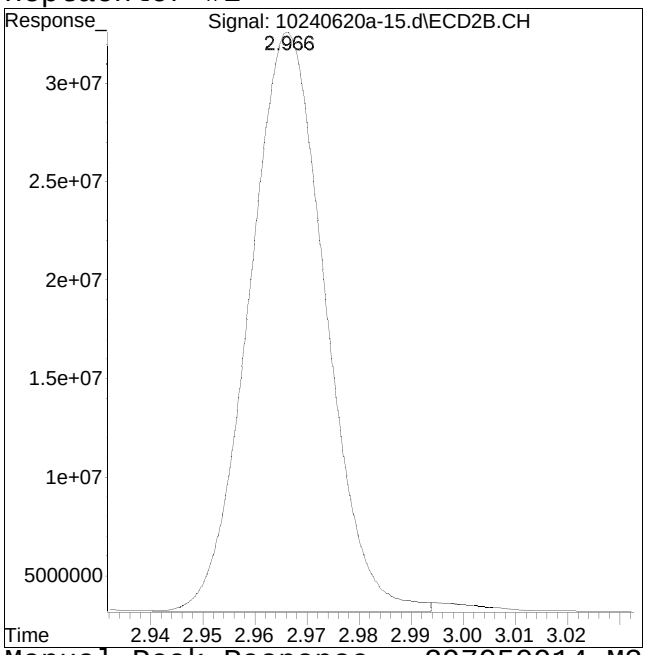
Original Peak Response = 1212800212 Manual Peak Response = 1206061546 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #46: Heptachlor #2



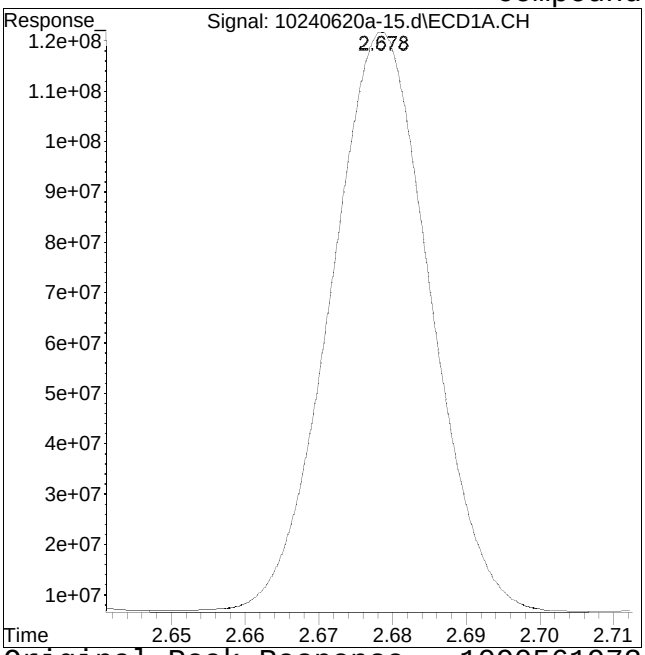


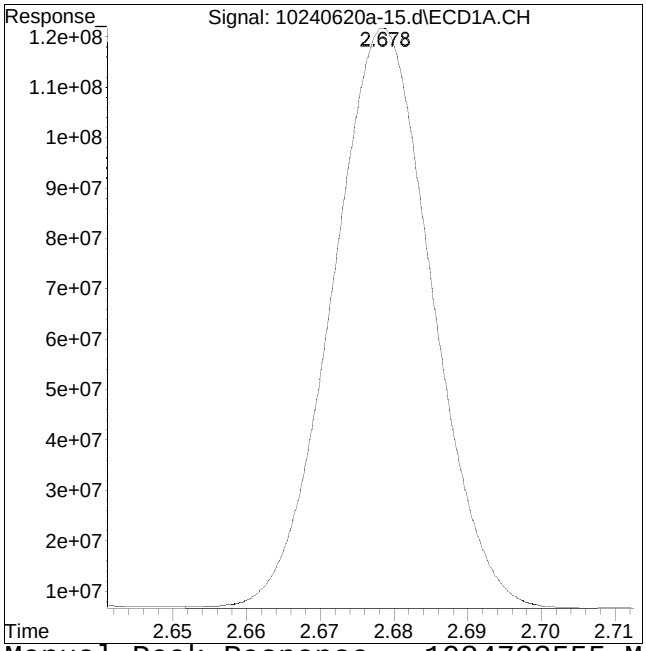
Original Peak Response = 306347760 Manual Peak Response = 297950914 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #9: Aldrin



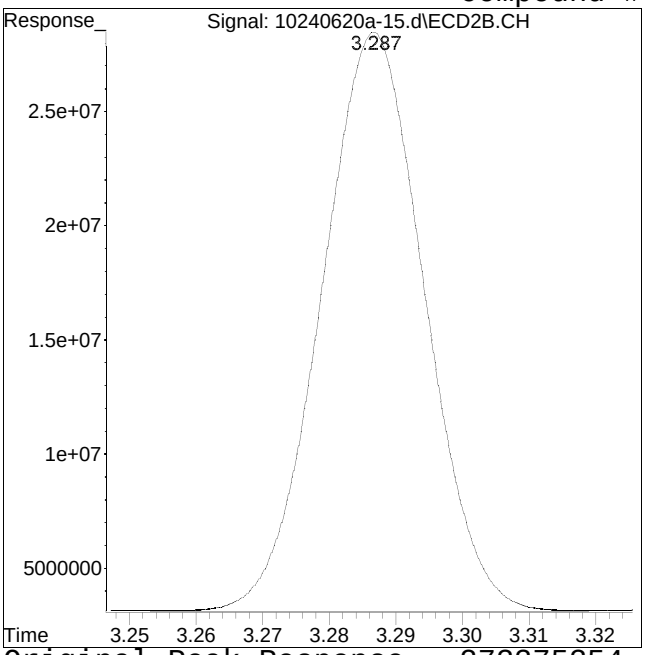


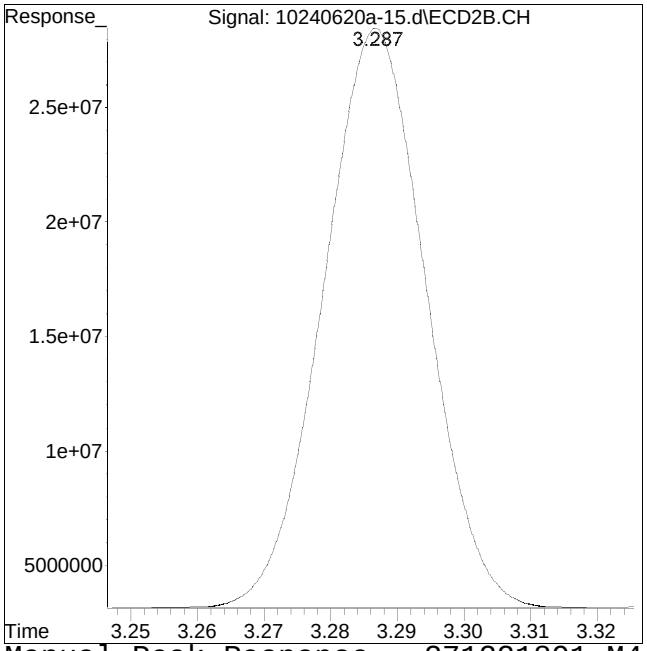
Original Peak Response = 1090561973 Manual Peak Response = 1084733555 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #47: Aldrin #2



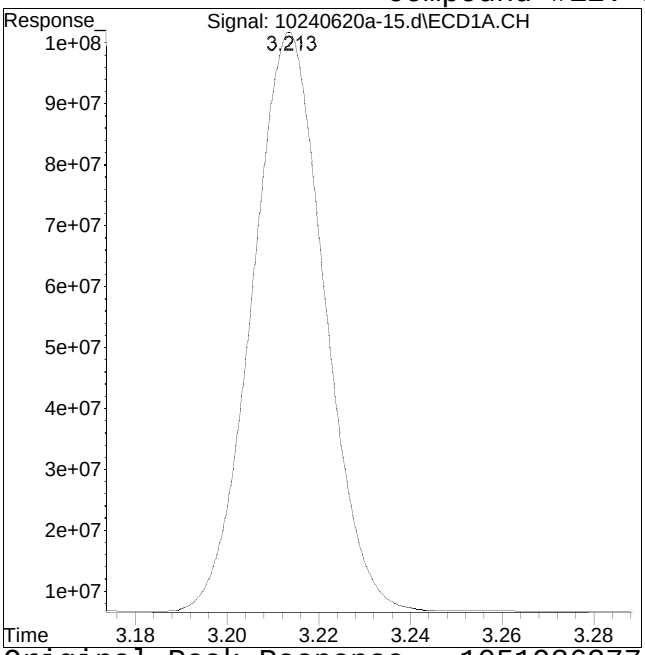


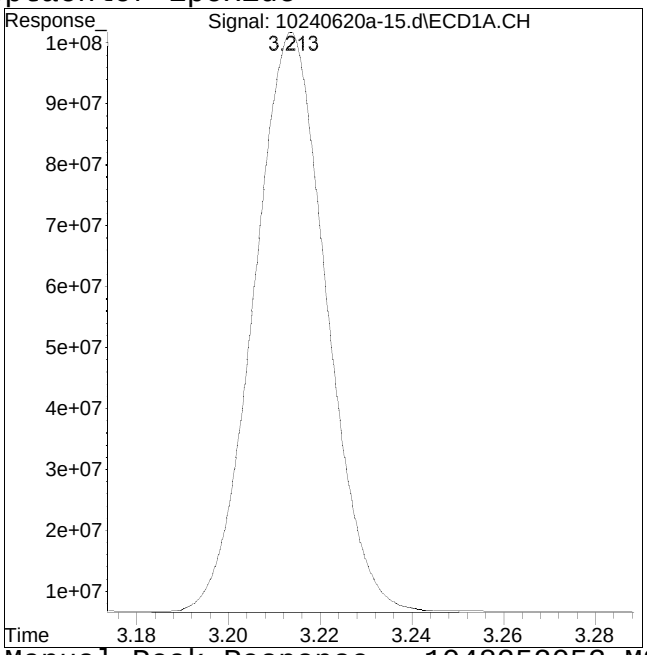
Original Peak Response = 273375354 Manual Peak Response = 271221891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #12: Heptachlor Epoxide



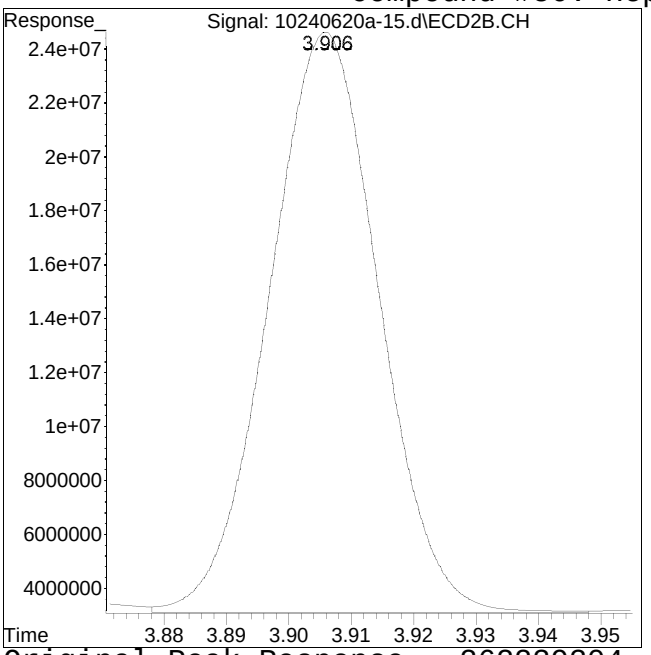


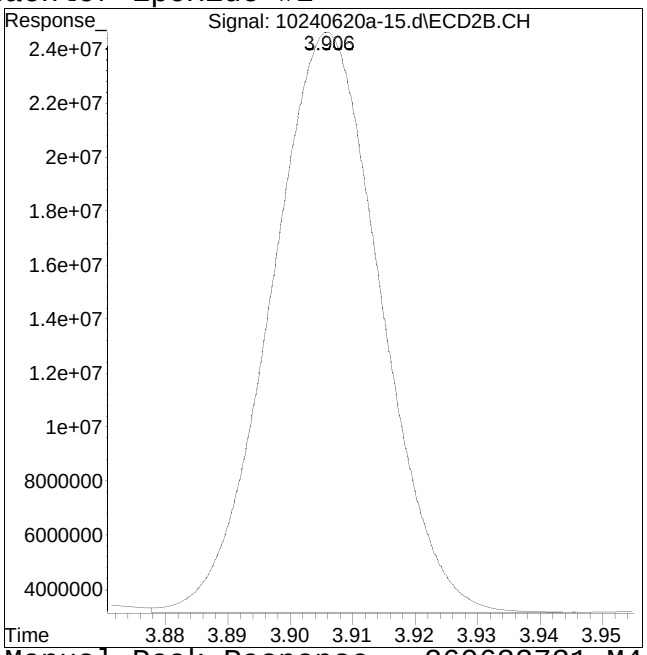
Original Peak Response = 1051936377 Manual Peak Response = 1048252053 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #50: Heptachlor Epoxide #2



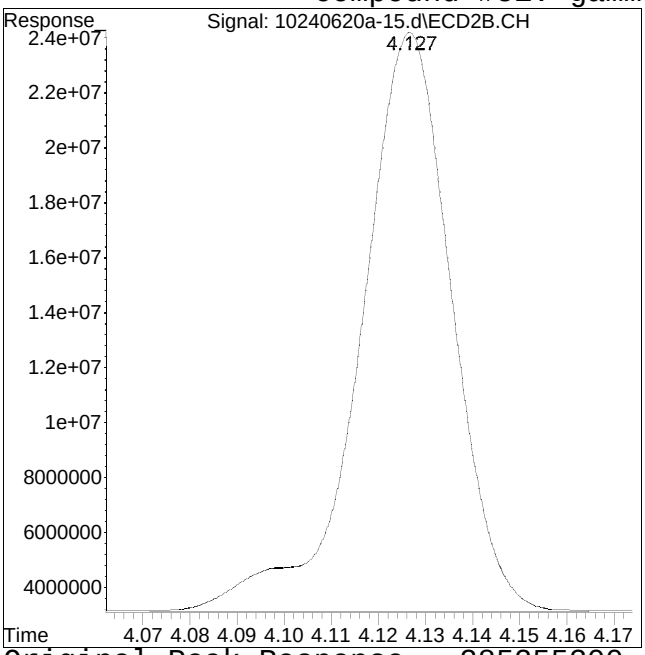


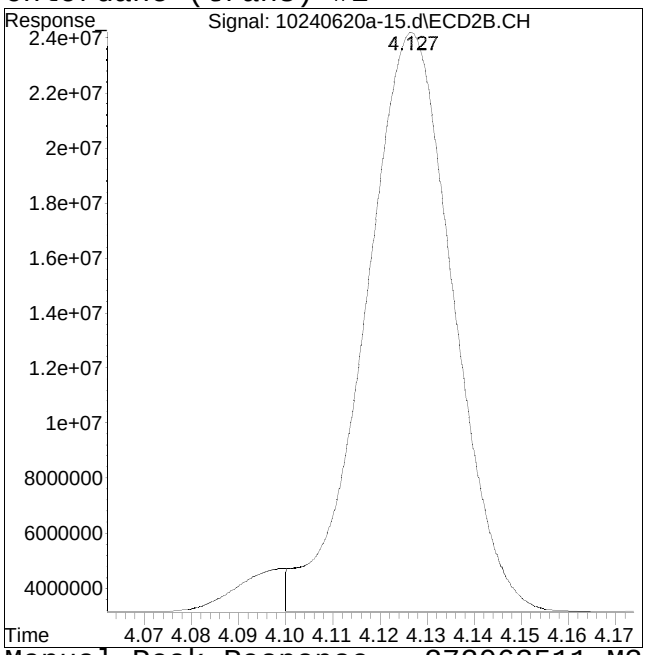
Original Peak Response = 262239304 Manual Peak Response = 260633731 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #51: gamma-Chlordane (trans) #2



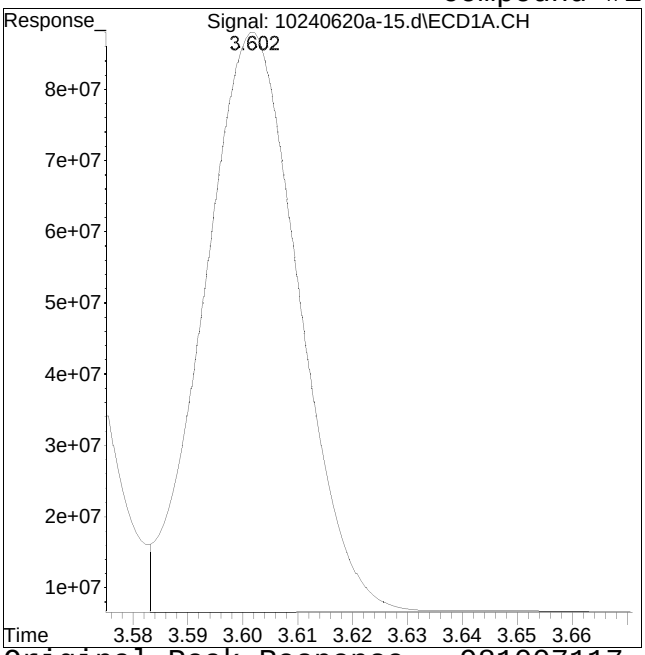


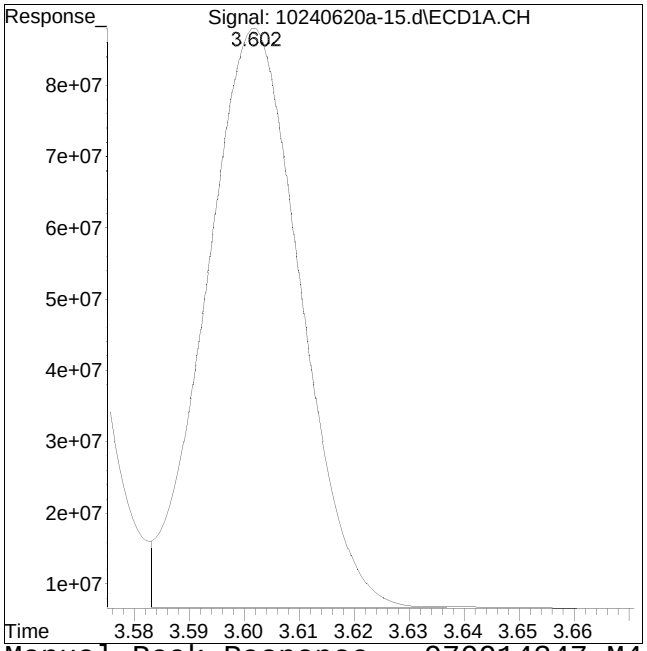
Original Peak Response = 285255300 Manual Peak Response = 272063511 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #16: Endosulfan I



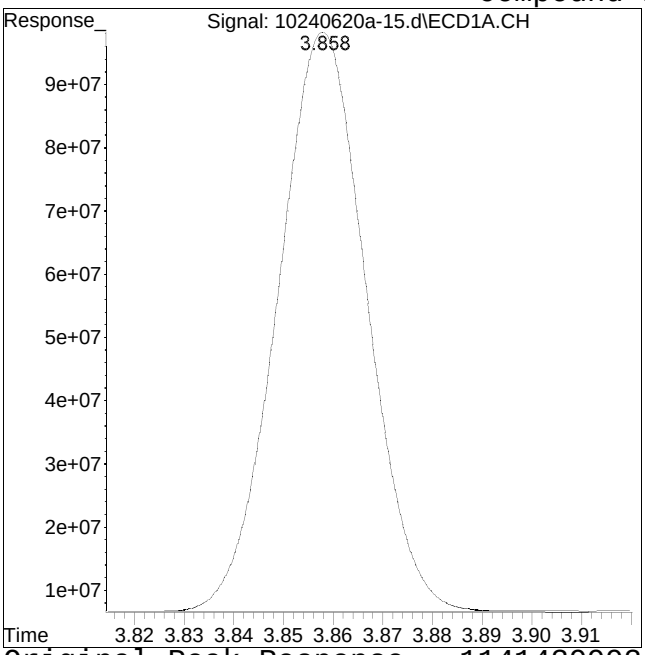


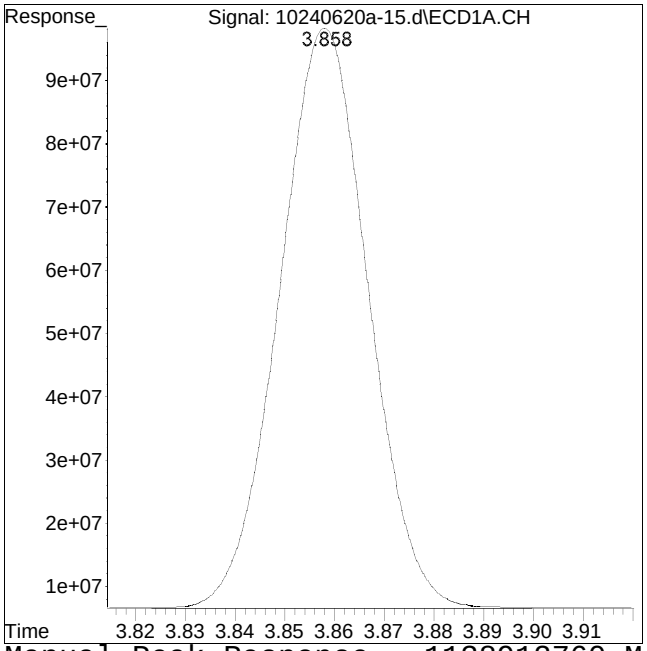
Original Peak Response = 981007117 Manual Peak Response = 970914347 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #17: Dieldrin



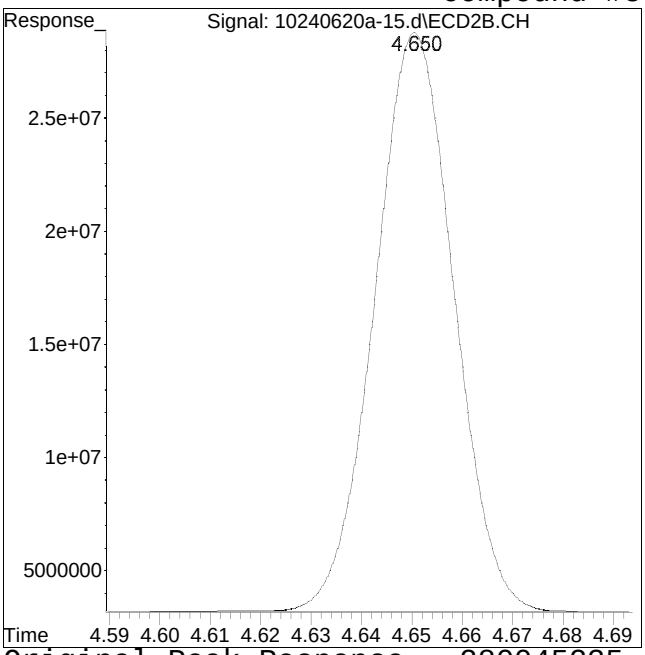


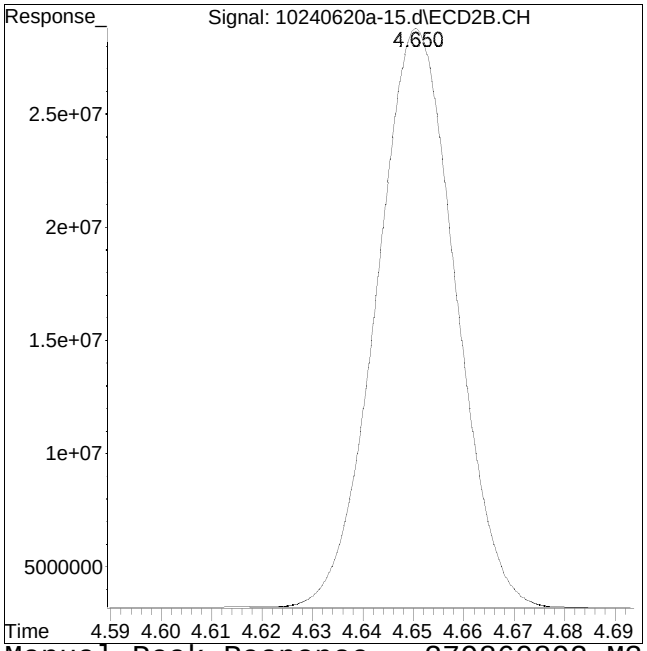
Original Peak Response = 1141439993 Manual Peak Response = 1138912760 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #55: Dieldrin #2



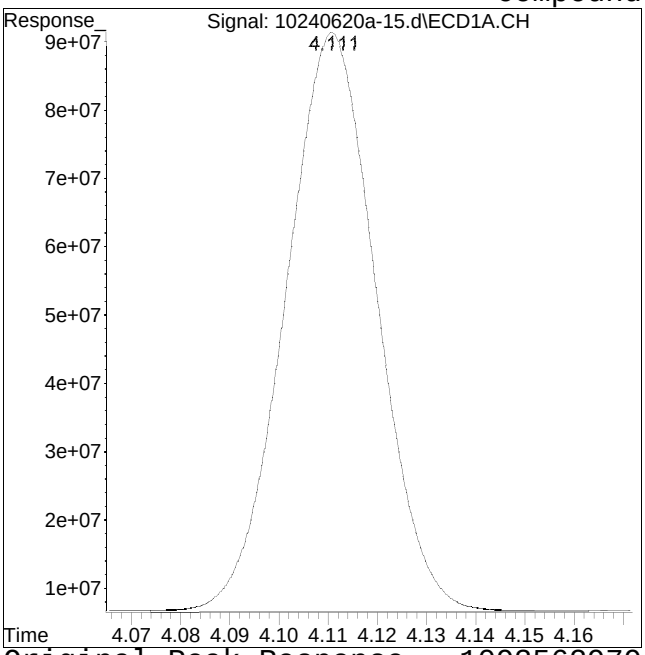


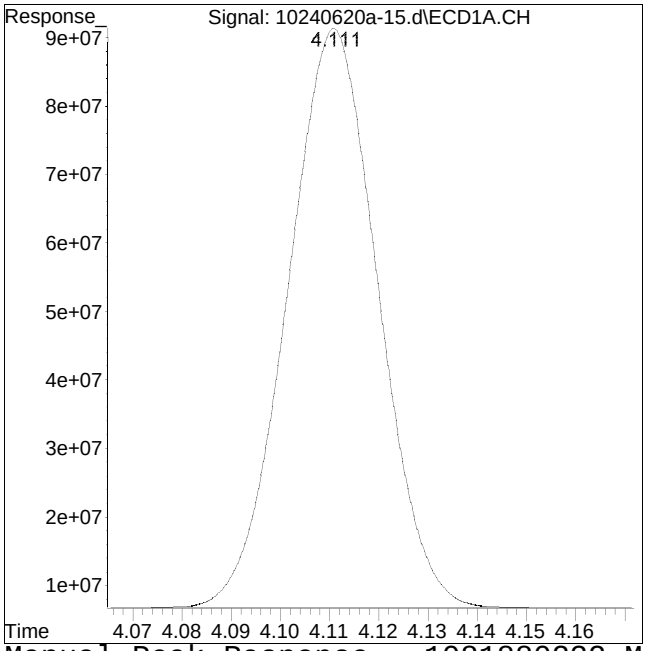
Original Peak Response = 280045235 Manual Peak Response = 279860892 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #18: Endrin



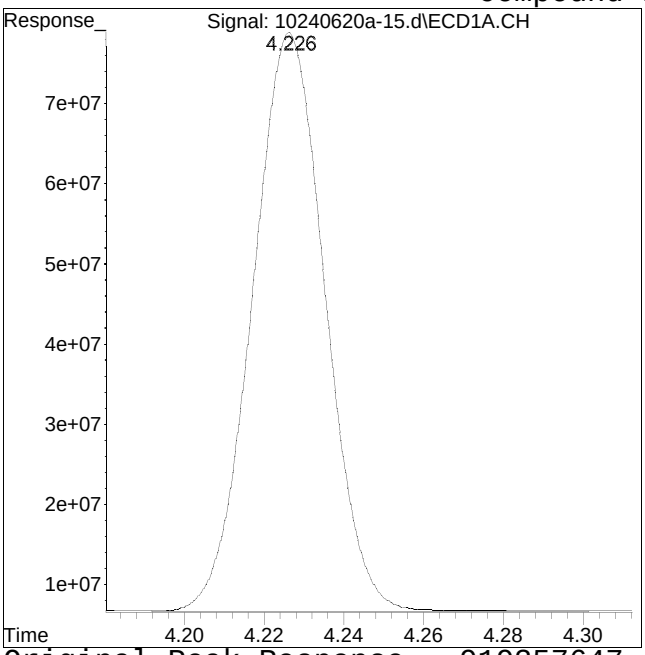


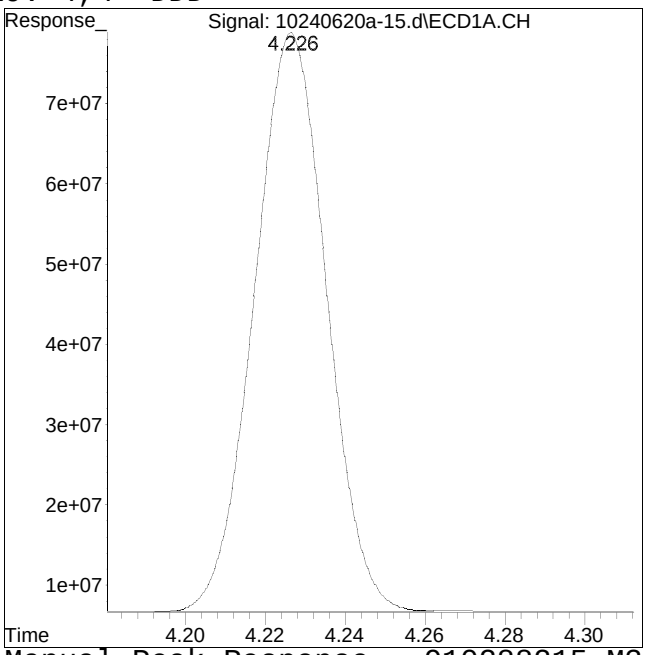
Original Peak Response = 1093562979 Manual Peak Response = 1081880232 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #19: 4,4'-DDD



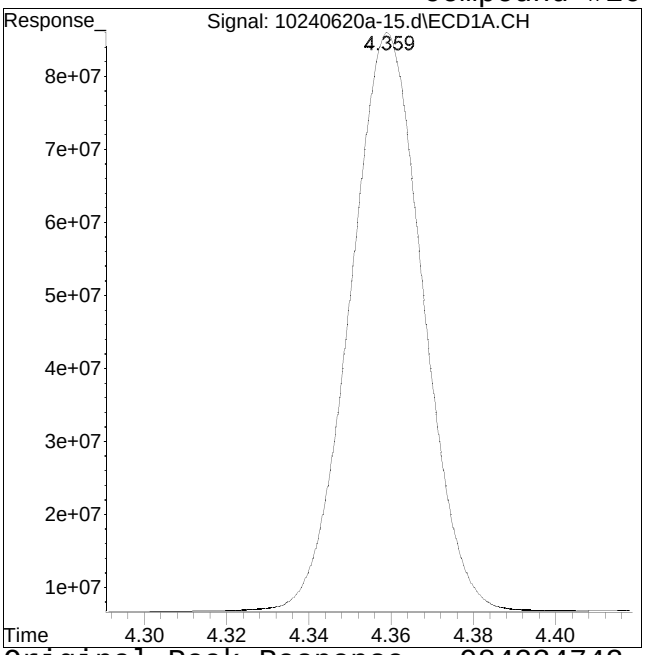


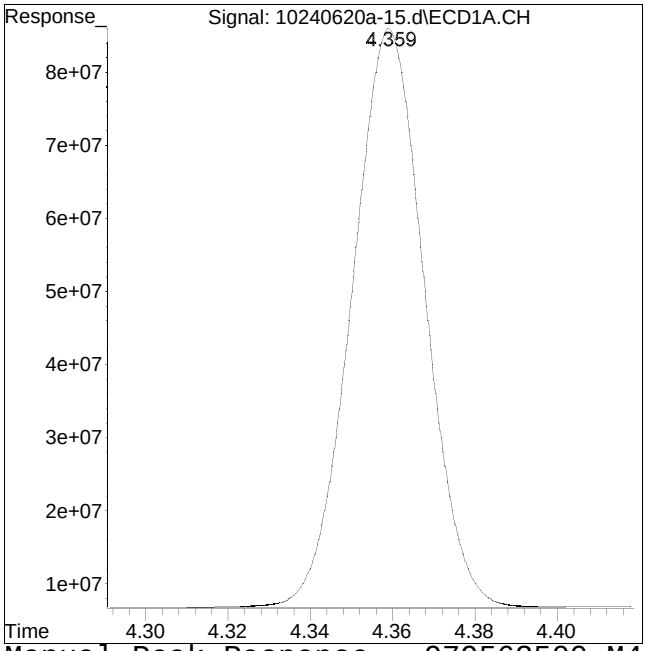
Original Peak Response = 919357647 Manual Peak Response = 910288215 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #20: Endosulfan II



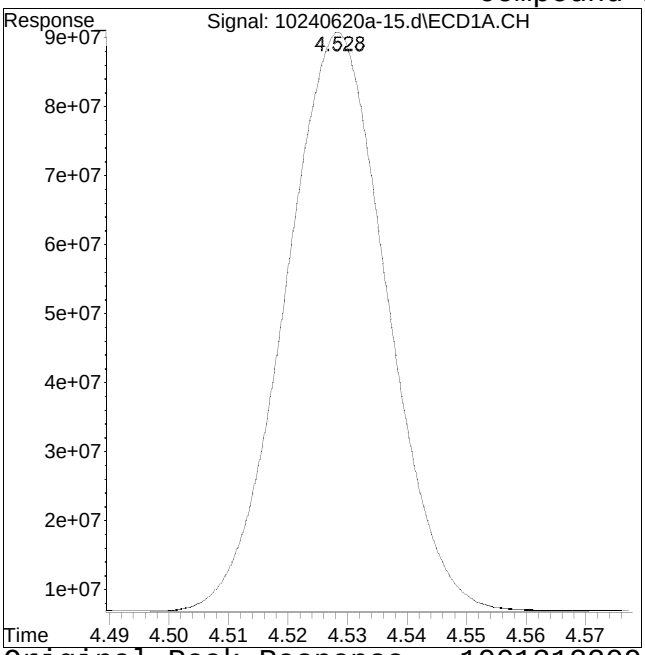


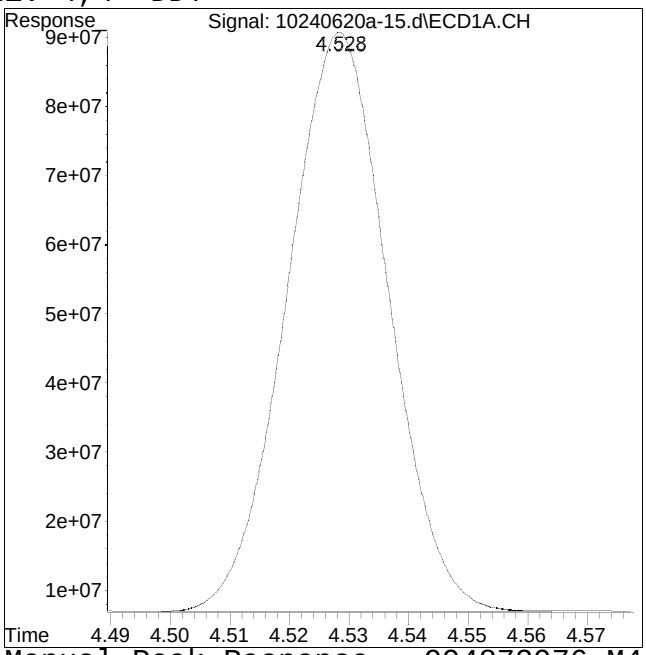
Original Peak Response = 984234742 Manual Peak Response = 979563500 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #21: 4,4'-DDT



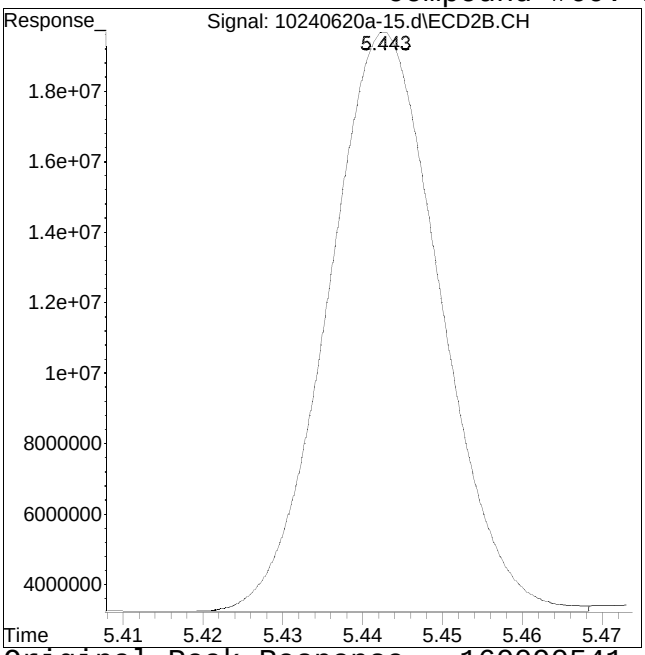


Original Peak Response = 1001312209 Manual Peak Response = 994872976 M4
M4 = Poor automated baseline construction.

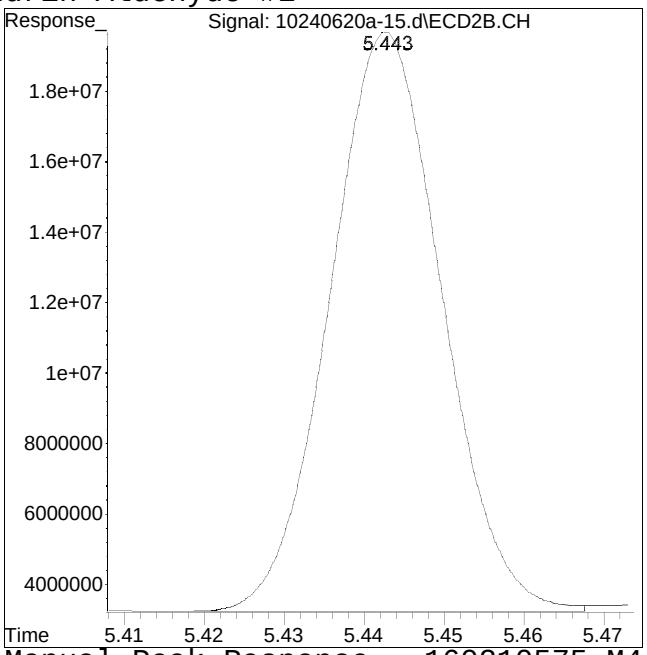
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 160090541



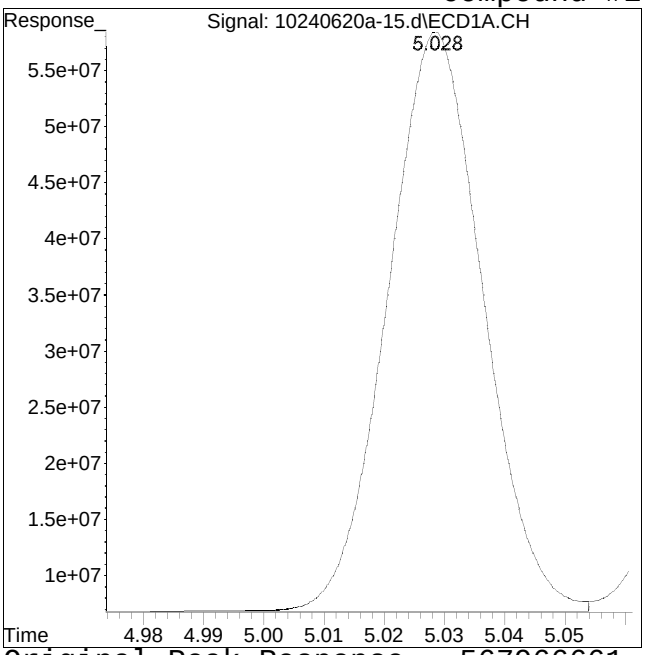
Manual Peak Response = 160210575 M4

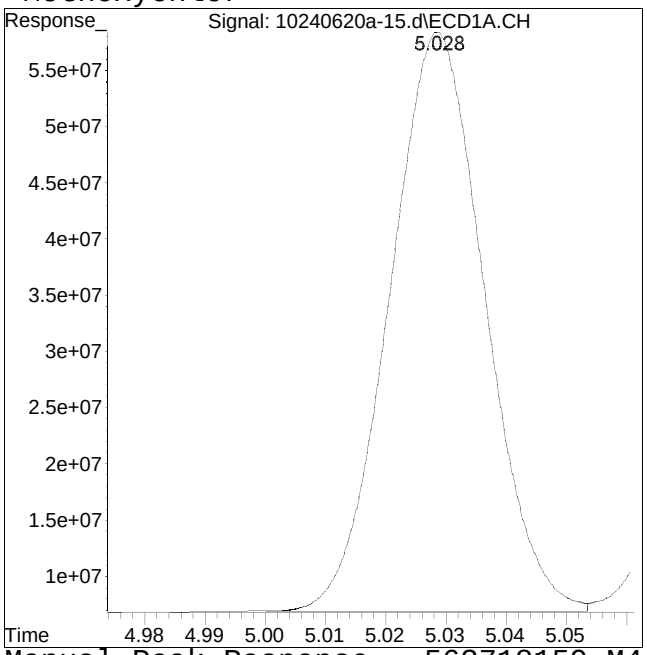
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #23: Methoxychlor



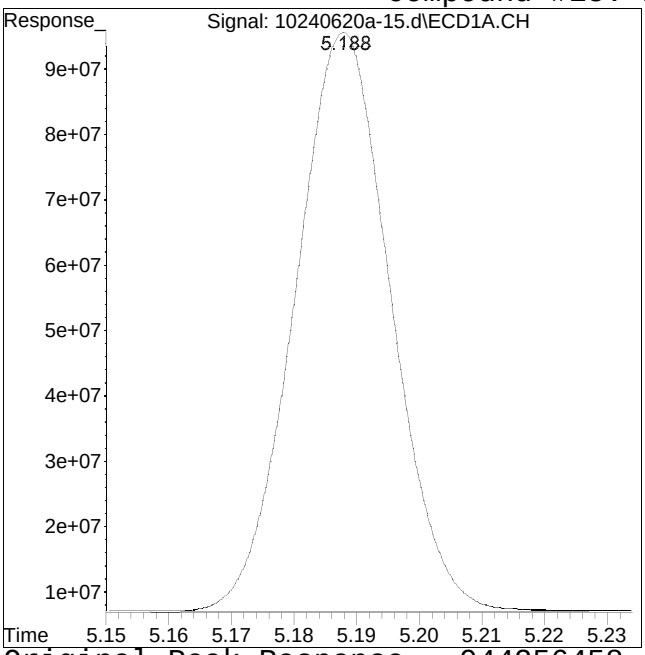


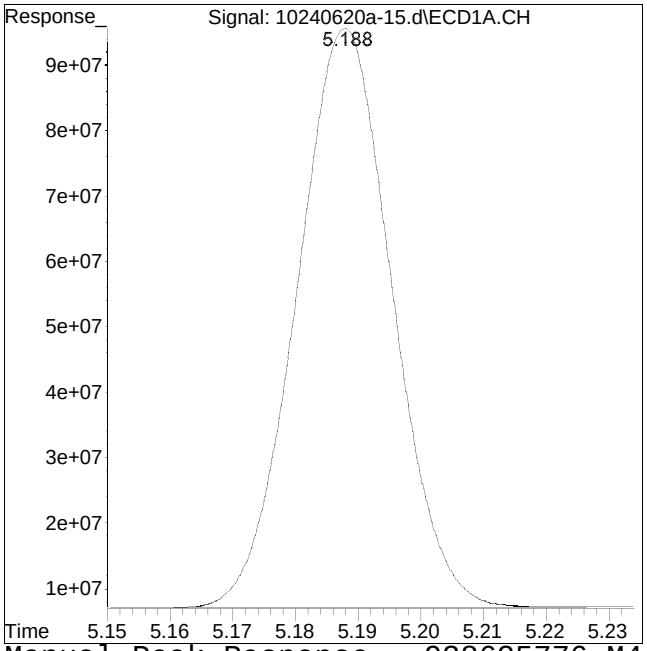
Original Peak Response = 567966661 Manual Peak Response = 563718159 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #25: Endosulfan Sulfate



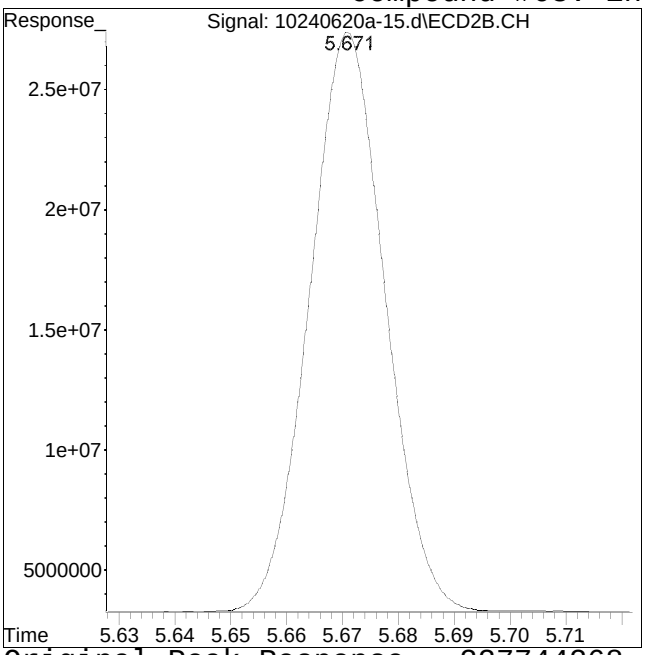


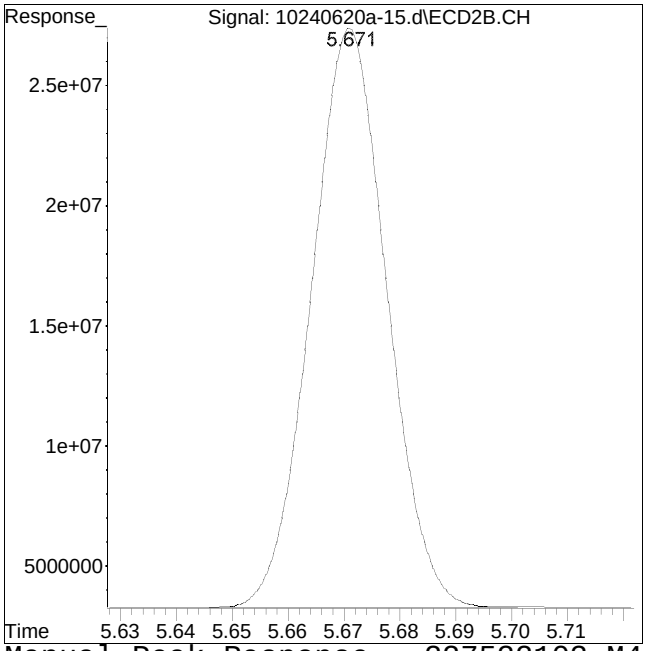
Original Peak Response = 944256458 Manual Peak Response = 938625776 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #63: Endosulfan Sulfate #2



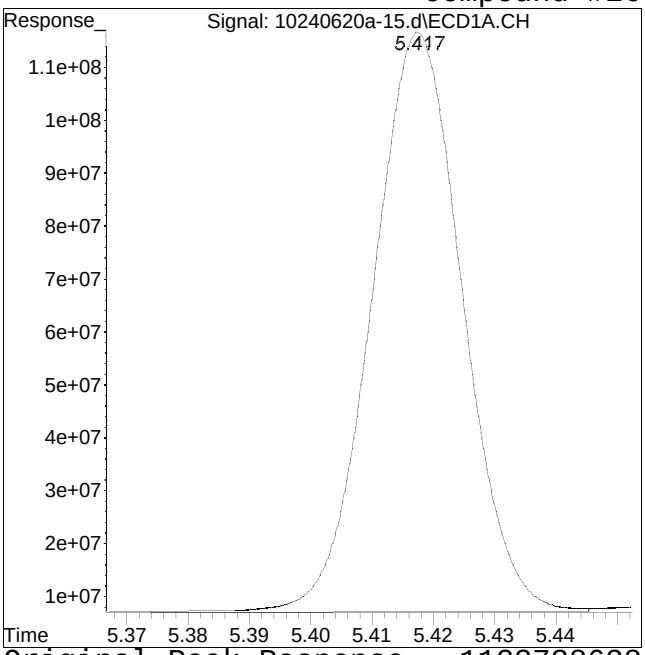


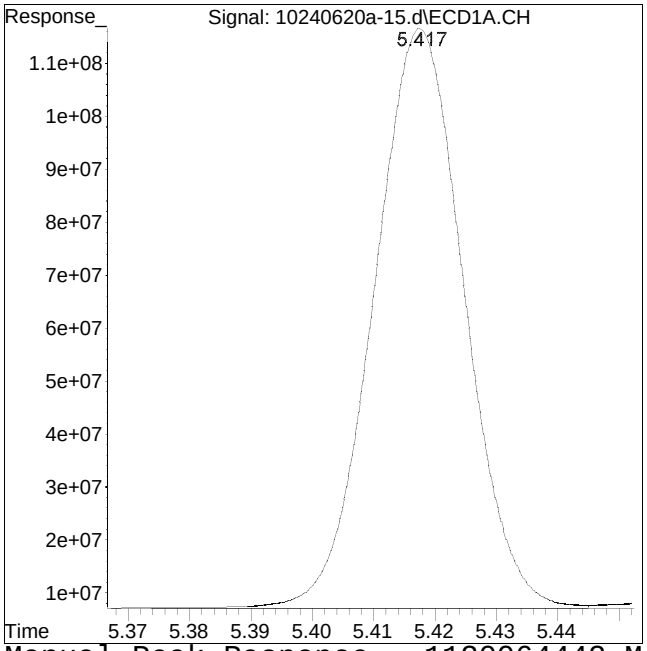
Original Peak Response = 227744268 Manual Peak Response = 227532103 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #26: Endrin Ketone



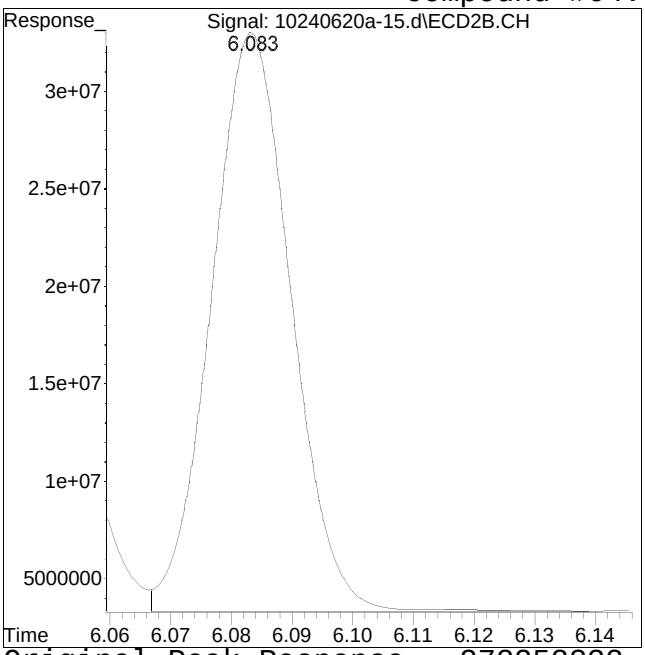


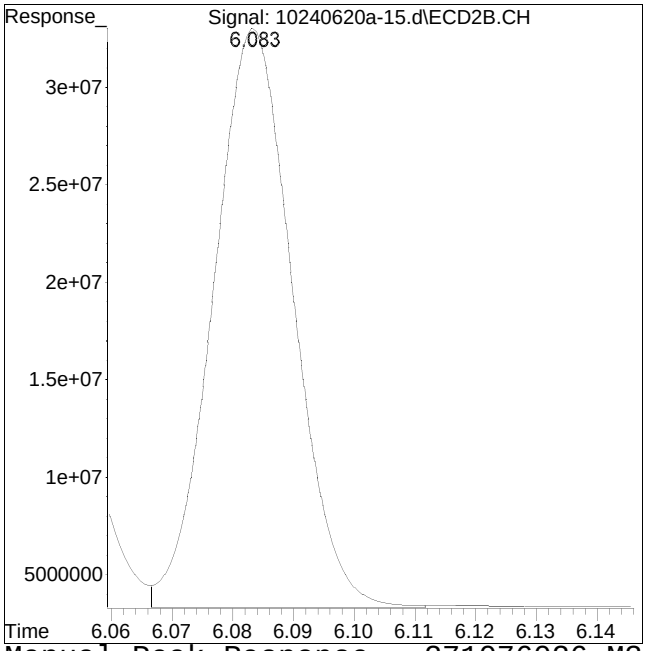
Original Peak Response = 1123738628 Manual Peak Response = 1120064442 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #64: Endrin Ketone #2



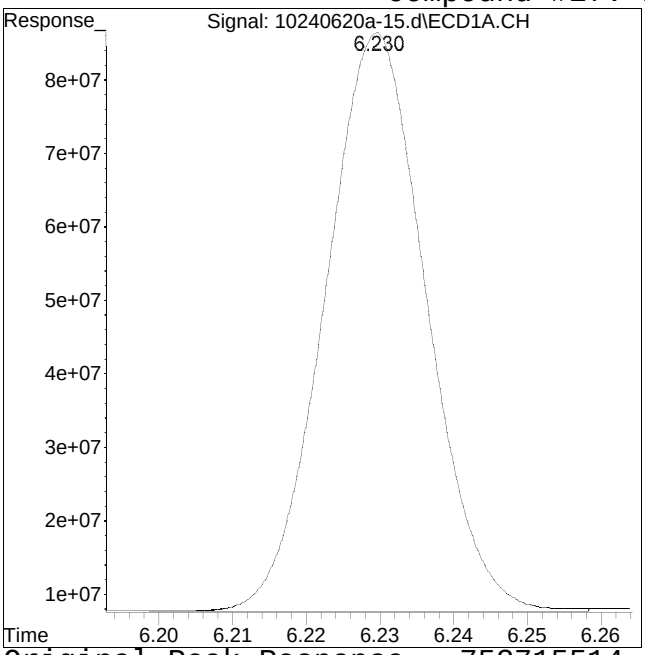


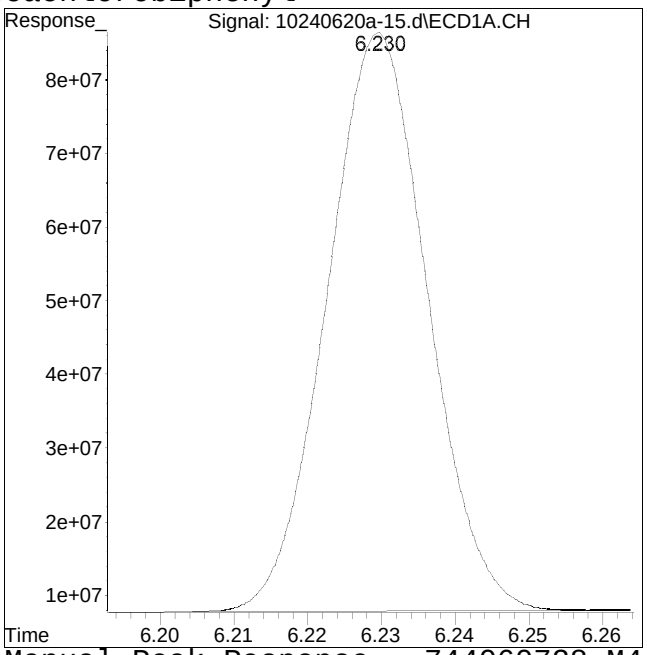
Original Peak Response = 272252332 Manual Peak Response = 271076026 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #27: Decachlorobiphenyl



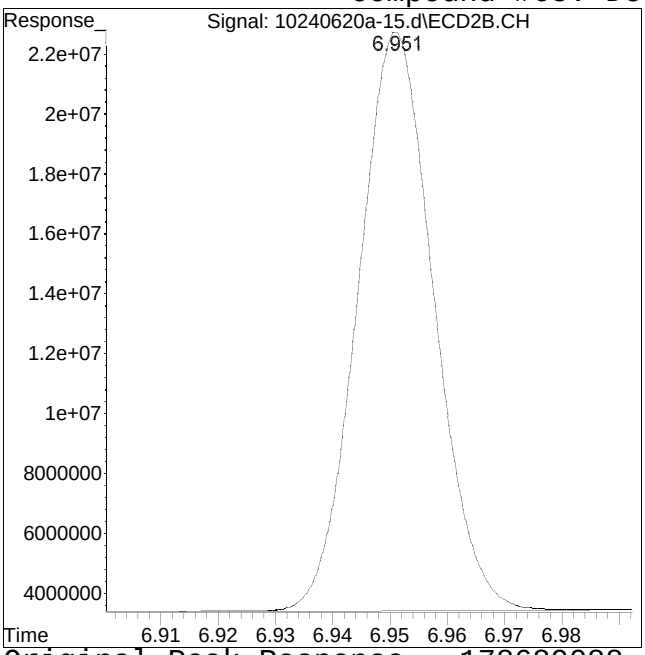


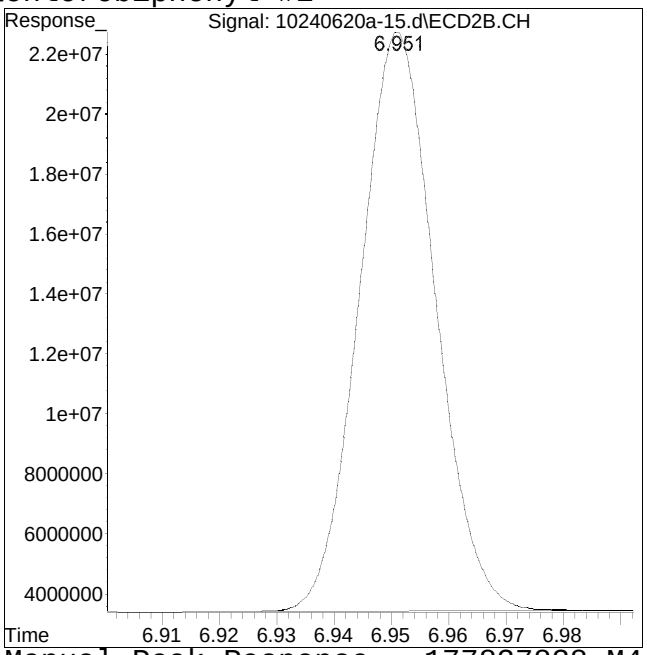
Original Peak Response = 752715514 Manual Peak Response = 744060728 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240620QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240620a-15.d Operator : PEST10:mmg
Date Inj'd : 6/20/2024 9:24 Instrument : Pest 10
Sample : WG1936774-5,42,, msd Quant Date : 6/20/2024 9:40 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 178689088 Manual Peak Response = 177837838 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: Pest
Inst: Pest_10
Date: **05/02/24**
Run: **ical**

Method
GC: PEST

Seq: WG1919460
IS: pp11530

Vial	Data File	Sample	CCAL	notes	initials
1	10240502i-01	Blank,42e,,pp 11530 --			
2	10240502i-02	pem-01,42e,,pp 11529 --			JAG 5/7
3	10240502i-03	il1pest,42e,,pp 11406 L0.0005			JAG 5/7
4	10240502i-04	il2pest,42e,,pp 11405 L0.001			JAG 5/7
5	10240502i-05	il3pest,42e,,pp 11404 L0.002			JAG 5/7
6	10240502i-06	il4pest,42e,,pp 11403 L0.003			JAG 5/7
7	10240502i-07	il5pest,42e,,pp 11402 L0.004			JAG 5/7
8	10240502i-08	il7pest,42e,,pp 11401 L0.01			JAG 5/7
9	10240502i-09	il8pest,42e,,pp 11400 L0.05			JAG 5/7
10	10240502i-10	il9pest,42e,,pp 11399 L0.1			JAG 5/7
11	10240502i-11	il10pest,42e,,pp 11398 L0.2			JAG 5/7
12	10240502i-12	il11pest,42e,,pp 11397 L0.4			JAG 5/7
13	10240502i-13	cicvpest,42e,,pp 11536 L0.05ICV			JAG 5/7
14	10240502i-14	il3chlor,42e,,pp 11509 L0.01			JAG 5/7
15	10240502i-15	il4chlor,42e,,pp 11508 L0.02			JAG 5/7
16	10240502i-16	il5chlor,42e,,pp 11507 L0.1			JAG 5/7
17	10240502i-17	il7chlor,42e,,pp 11506 L0.5			JAG 5/7
18	10240502i-18	il8chlor,42e,,pp 11505 L1.0			JAG 5/7
19	10240502i-19	il9chlor,42e,,pp 11504 L2.0			JAG 5/7
20	10240502i-20	il10chlor,42e,,pp 11549 L5.0		Not used	JAG 5/7
21	10240502i-21	cicvchlor,42e,,pp 11540 L1.0ICV			JAG 5/7
22	10240502i-22	il3tox,42e,,pp 11519 L0.02			JAG 5/7
23	10240502i-23	il4tox,42e,,pp 11518 L0.1			JAG 5/7
24	10240502i-24	il7tox,42e,,pp 11517 L1.0			JAG 5/7
25	10240502i-25	il8tox,42e,,pp 11516 L2.0			JAG 5/7
26	10240502i-26	il9tox,42e,,pp 11510 L5.0			JAG 5/7
27	10240502i-27	cicvtox,42e,,pp 11541 L2.0ICV			JAG 5/7

Dep.: PEST
Inst: Pest_10
Date: **06/20/24**
Run: a

Method
GC: pest

Seq: WG1936891
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials
1	10240620a-01	blank				
2	10240620a-02	deg11573	6:31			AKM 6/20
3	10240620a-03	pest11595	high			PEG 6/20
4	10240620a-04	chlor11612	15%			AKM 6/20
5	10240620a-05	tox11615	15%			AKM 6/20
6	10240620a-06	blank				
7	10240620a-07	WG1936776-1,42,, 774				MMG 6/20
8	10240620a-08	WG1936776-2,42,, 774				MMG 6/20
9	10240620a-09	WG1936776-3,42,, 774				MMG 6/20
10	10240620a-10	L2433375-01,42,,				MMG 6/20
11	10240620a-11	L2433375-02,42,,				MMG 6/20
12	10240620a-12	L2433375-03,42,,				MMG 6/20
13	10240620a-13	L2433375-04,42,, p				MMG 6/20
14	10240620a-14	WG1936774-4,42,, ms				MMG 6/20
15	10240620a-15	WG1936774-5,42,, msd				MMG 6/20
16	10240620a-16	L2433375-05,42,,				MMG 6/20
17	10240620a-17	L2433375-06,42,,				MMG 6/20
18	10240620a-18	L2433375-07,42,,				MMG 6/20
19	10240620a-19	L2433375-08,42,,				MMG 6/20
20	10240620a-20	L2433247-02,42,,				MMG 6/20
21	10240620a-21	L2433232-01,42,, 608				MMG 6/20
22	10240620a-22	WG1936359-1,42,,				MMG 6/20
23	10240620a-23	WG1936359-2,42,,		rv		
24	10240620a-24	WG1936359-3,42,,		no alachlor or endrin, end ket high, rv		
25	10240620a-25	L2422662-06,42,, p				
26	10240620a-26	WG1936359-4,42,, ms				
27	10240620a-27	WG1936359-5,42,, dup				
28	10240620a-28	L2433525-01,42,,				
29	10240620a-29	L2433525-02,42,,				
30	10240620a-30	L2433525-06,42,,				
31	10240620a-31	L2433525-09,42,,				
32	10240620a-32	L2433525-13,42,,				
33	10240620a-33	L2433525-14,42,,				
34	10240620a-34	pest11595				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 12:36 pm

Work Group: WG1936774 for Department: 2 Organic Preparation

Created: 20-JUN-24 Due: Operator: HEO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433375-01	EB_06132024	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
L2433375-02	DUP_06132024	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
L2433375-03	PZ-5	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
L2433375-04	MW-5D	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
L2433375-05	MW-12S	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
L2433375-06	MW-12D	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
L2433375-07	MW-4S	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
L2433375-08	MW-4D2	S	NYTCL-8081	WATER	DONE	U	0620	0620	S0	Amber-A.120
WG1936774-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1936774-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1936774-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1936774-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1936774-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1936774-3	WG1936774-2
WG1936774-4	L2433375-04
WG1936774-5	L2433375-04

ORGANIC ELN REPORT

Workgroup: WG1936774

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: Pesticide/PCB **Lot #:** PP11616ae,11/22/2024,2c,5,1
Spike Type: Pesticide **Lot #:** PP11566-AG910-9-24)
Spike Verify by: HEO
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI504

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2433375-01 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
L2433375-02 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
L2433375-03 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
L2433375-04 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
L2433375-05 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
L2433375-06 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1

Reported: 20-JUN-24 12:36 PM

ORGANIC ELN REPORT

Workgroup: WG1936774

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433375-07 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
L2433375-08 SAMP	06/20/24 00:27	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
WG1936774-1 BLANK	06/20/24 00:27 **WG1936776**	Henry Otoo	140	>5,<9	.25		06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
WG1936774-2 LCS	06/20/24 00:27 **WG1936776**	Henry Otoo	140	>5,<9	.25	.25	06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
WG1936774-3 LCSD	06/20/24 00:27 **WG1936776**	Henry Otoo	140	>5,<9	.25	.25	06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
WG1936774-4 MS	06/20/24 00:27	Henry Otoo	140	>5,<9	.25	.25	06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1
WG1936774-5 MSD	06/20/24 00:27	Henry Otoo	140	>5,<9	.25	.25	06/20/24 05:11	Rabbi Kyei-Baffour	1	D / A / #1

Reported: 20-JUN-24 12:36 PM

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936234.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0470	0.0100	0.0021	
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.84	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935943-1	**Date Collected**	: NA
Client ID	: WG1935943-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 15:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936234.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935943-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/19/24 15:40
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936234.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-95-4	Magnesium, Dissolved	6.85	0.500	0.077	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:32
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	0.0411	0.100	0.0350	J
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0131	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0187	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	27.7	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0023	0.0100	0.0022	J
7439-89-6	Iron, Total	0.0172	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	7.20	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.720	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	3.86	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0028	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0189	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	27.5	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0026	0.0100	0.0022	J
7439-89-6	Iron, Total	0.0096	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	7.11	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.755	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	3.97	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0026	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0520	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	14.4	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0171	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.98	0.100	0.0153	
7439-96-5	Manganese, Total	0.0242	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.20	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	27.6	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0362	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	13.6	0.100	0.0350	
7440-47-3	Chromium, Total	0.0037	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0285	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.59	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	0.0041	0.0250	0.0024	J
7440-09-7	Potassium, Total	1.12	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	14.3	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0108	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0179	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	8.99	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	1.37	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.33	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.54	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0139	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	11.2	0.100	0.0350	
7440-47-3	Chromium, Total	0.0031	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0097	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.54	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.940	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	9.02	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935889-8	**Date Collected**	: 06/13/24 09:00
Client ID	: WG1935889-8 DUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/19/24 18:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-62-2	Vanadium, Total	ND	0.0100	0.002	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 09:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1936225.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0548	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0558	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	15.7	0.100	0.0350	
7440-47-3	Chromium, Total	0.0021	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0911	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	7.07	0.100	0.0153	
7439-96-5	Manganese, Total	0.0022	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.42	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	20.3	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935889-1	**Date Collected**	: NA
Client ID	: WG1935889-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 09:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1936225.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935889-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/19/24 10:07
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1936225.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	15.2	0.500	0.175	
7439-95-4	Magnesium, Total	7.13	0.500	0.077	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 08:25
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	0.0130	0.0500	0.0071	J
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	0.0389	0.100	0.0350	J
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0130	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 08:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0210	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	27.7	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0024	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.83	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.789	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	3.72	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 08:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	0.0020	0.0050	0.0019	J
7440-39-3	Barium, Dissolved	0.0207	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	28.2	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.96	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.766	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	3.74	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 08:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-70-2	Calcium, Dissolved	16.6	0.100	0.0350	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7440-09-7	Potassium, Dissolved	1.37	2.50	0.237	J
7440-23-5	Sodium, Dissolved	20.4	2.00	0.120	

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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0566	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	14.9	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.91	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0228	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.20	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	27.0	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0387	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	13.9	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0033	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.52	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	0.0037	0.0250	0.0024	J
7440-09-7	Potassium, Dissolved	1.11	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	13.8	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0098	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0197	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	9.21	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	1.33	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.33	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	8.28	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 09:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0155	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	11.7	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0023	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.46	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.986	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	8.80	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935943-1	**Date Collected**	: NA
Client ID	: WG1935943-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 08:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1936852.csv	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842837-1									
Date Analyzed	:	06/19/24 05:37									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.5140	103							
Antimony		0.500	0.5170	103							
Arsenic		0.500	0.5020	100							
Barium		0.500	0.5160	103							
Cadmium		0.500	0.5090	102							
Chromium		0.500	0.5230	105							
Cobalt		0.500	0.5190	104							
Copper		0.500	0.5140	103							
Lead		0.500	0.5180	104							
Magnesium		0.500	0.5240	105							
Manganese		0.500	0.5160	103							
Nickel		0.500	0.5200	104							
Selenium		0.500	0.5090	102							
Silver		0.500	0.5250	105							
Thallium		0.500	0.5150	103							
Vanadium		0.500	0.5150	103							
Zinc		0.500	0.5170	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842837-3			R1842837-6			R1842837-8		R1842837-10	
Date Analyzed:	06/19/24 05:50			06/19/24 07:45			06/19/24 09:15		06/19/24 10:38	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5280	106	0.5000	0.504	101	0.506	101	0.496	99
Antimony	0.500	0.5150	103	0.5000	0.502	100	0.494	99	0.496	99
Arsenic	0.500	0.5030	101	0.5000	0.495	99	0.487	97	0.486	97
Barium	0.500	0.5300	106	0.5000	0.502	100	0.498	100	0.494	99
Cadmium	0.500	0.5050	101	0.5000	0.491	98	0.491	98	0.490	98
Chromium	0.500	0.5190	104	0.5000	0.497	99	0.501	100	0.502	100
Cobalt	0.500	0.5160	103	0.5000	0.500	100	0.499	100	0.497	99
Copper	0.500	0.5120	102	0.5000	0.492	98	0.494	99	0.496	99
Lead	0.500	0.5190	104	0.5000	0.510	102	0.501	100	0.500	100
Magnesium	0.500	0.5250	105	0.5000	0.513	103	0.505	101	0.495	99
Manganese	0.500	0.5270	105	0.5000	0.496	99	0.493	99	0.486	97
Nickel	0.500	0.5200	104	0.5000	0.512	102	0.503	101	0.500	100
Selenium	0.500	0.5090	102	0.5000	0.508	102	0.497	99	0.495	99
Silver	0.500	0.5260	105	0.5000	0.507	101	0.506	101	0.504	101
Thallium	0.500	0.5120	102	0.5000	0.494	99	0.494	99	0.492	98
Vanadium	0.500	0.5140	103	0.5000	0.498	100	0.497	99	0.498	100
Zinc	0.500	0.5150	103	0.5000	0.502	100	0.499	100	0.500	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842837-12			R1842837-14		R1842837-16	
Date Analyzed :				06/19/24 11:55			06/19/24 13:14		06/19/24 14:27	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.512	102	0.509	102	0.500	100
Antimony				0.5000	0.500	100	0.503	101	0.503	101
Arsenic				0.5000	0.490	98	0.489	98	0.487	97
Barium				0.5000	0.503	101	0.502	100	0.491	98
Cadmium				0.5000	0.492	98	0.493	99	0.491	98
Chromium				0.5000	0.503	101	0.508	102	0.506	101
Cobalt				0.5000	0.498	100	0.500	100	0.500	100
Copper				0.5000	0.498	100	0.503	101	0.504	101
Lead				0.5000	0.504	101	0.502	100	0.497	99
Magnesium				0.5000	0.497	99	0.491	98	0.473	95
Manganese				0.5000	0.492	98	0.483	97	0.462	92
Nickel				0.5000	0.505	101	0.504	101	0.499	100
Selenium				0.5000	0.507	101	0.506	101	0.502	100
Silver				0.5000	0.504	101	0.504	101	0.498	100
Thallium				0.5000	0.496	99	0.501	100	0.499	100
Vanadium				0.5000	0.502	100	0.504	101	0.502	100
Zinc				0.5000	0.505	101	0.507	101	0.506	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842837-18						
Date Analyzed :				06/19/24 15:52						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.509	102				
Antimony				0.5000	0.499	100				
Arsenic				0.5000	0.480	96				
Barium				0.5000	0.487	97				
Cadmium				0.5000	0.484	97				
Chromium				0.5000	0.499	100				
Cobalt				0.5000	0.493	99				
Copper				0.5000	0.495	99				
Lead				0.5000	0.488	98				
Magnesium				0.5000	0.490	98				
Manganese				0.5000	0.456	91				
Nickel				0.5000	0.490	98				
Selenium				0.5000	0.489	98				
Silver				0.5000	0.490	98				
Thallium				0.5000	0.493	99				
Vanadium				0.5000	0.492	98				
Zinc				0.5000	0.498	100				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842862-1			R1842862-4			R1842862-6		R1842862-8	
Date Analyzed:	06/19/24 06:20			06/19/24 08:06			06/19/24 09:16		06/19/24 10:07	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4990	100	0.5000	0.503	101	0.493	99	0.493	99
Antimony	0.500	0.5000	100	0.5000	0.493	99	0.497	99	0.491	98
Arsenic	0.500	0.4850	97	0.5000	0.483	97	0.481	96	0.485	97
Barium	0.500	0.5020	100	0.5000	0.504	101	0.506	101	0.503	101
Beryllium	0.500	0.5090	102	0.5000	0.508	102	0.510	102	0.509	102
Cadmium	0.500	0.5100	102	0.5000	0.505	101	0.506	101	0.504	101
Calcium	0.500	0.4880	98	0.5000	0.489	98	0.492	98	0.495	99
Chromium	0.500	0.4990	100	0.5000	0.492	98	0.497	99	0.496	99
Cobalt	0.500	0.5130	103	0.5000	0.507	101	0.510	102	0.510	102
Copper	0.500	0.4940	99	0.5000	0.489	98	0.492	98	0.489	98
Iron	0.500	0.5050	101	0.5000	0.504	101	0.515	103	0.512	102
Lead	0.500	0.4980	100	0.5000	0.494	99	0.494	99	0.492	98
Magnesium	0.500	0.4960	99	0.5000	0.492	98	0.494	99	0.493	99
Manganese	0.500	0.4960	99	0.5000	0.497	99	0.498	100	0.500	100
Nickel	0.500	0.5120	102	0.5000	0.505	101	0.511	102	0.511	102
Potassium	5.00	5.2600	105	5.0000	5.36	107	5.33	107	5.41	108
Selenium	0.500	0.4950	99	0.5000	0.488	98	0.487	97	0.489	98
Silver	0.500	0.5070	101	0.5000	0.500	100	0.503	101	0.503	101
Sodium	10.0	10.2000	102	10.0000	10.2	102	10.4	104	10.5	105
Thallium	0.500	0.4950	99	0.5000	0.488	98	0.486	97	0.484	97
Vanadium	0.500	0.4990	100	0.5000	0.493	99	0.498	100	0.497	99
Zinc	0.500	0.5130	103	0.5000	0.505	101	0.512	102	0.512	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842862-10			R1842862-12		R1842862-14	
Date Analyzed :				06/19/24 11:15			06/19/24 12:14		06/19/24 13:22	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.485	97	0.481	96	0.484	97
Antimony				0.5000	0.490	98	0.477	95	0.486	97
Arsenic				0.5000	0.487	97	0.479	96	0.484	97
Barium				0.5000	0.497	99	0.493	99	0.492	98
Beryllium				0.5000	0.506	101	0.508	102	0.507	101
Cadmium				0.5000	0.504	101	0.491	98	0.498	100
Calcium				0.5000	0.498	100	0.495	99	0.499	100
Chromium				0.5000	0.496	99	0.484	97	0.490	98
Cobalt				0.5000	0.507	101	0.498	100	0.501	100
Copper				0.5000	0.490	98	0.474	95	0.484	97
Iron				0.5000	0.527	105	0.530	106	0.518	104
Lead				0.5000	0.493	99	0.485	97	0.488	98
Magnesium				0.5000	0.490	98	0.483	97	0.489	98
Manganese				0.5000	0.504	101	0.499	100	0.503	101
Nickel				0.5000	0.509	102	0.500	100	0.506	101
Potassium				5.0000	5.26	105	5.26	105	5.25	105
Selenium				0.5000	0.491	98	0.483	97	0.484	97
Silver				0.5000	0.502	100	0.488	98	0.495	99
Sodium				10.0000	10.6	106	10.6	106	10.6	106
Thallium				0.5000	0.494	99	0.478	96	0.487	97
Vanadium				0.5000	0.496	99	0.485	97	0.492	98
Zinc				0.5000	0.508	102	0.503	101	0.506	101

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842862-16			R1842862-18		R1842862-20	
Date Analyzed :				06/19/24 14:12			06/19/24 15:03		06/19/24 15:48	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.479	96	0.483	97	0.479	96
Antimony				0.5000	0.485	97	0.480	96	0.477	95
Arsenic				0.5000	0.482	96	0.479	96	0.478	96
Barium				0.5000	0.487	97	0.489	98	0.485	97
Beryllium				0.5000	0.505	101	0.504	101	0.502	100
Cadmium				0.5000	0.498	100	0.495	99	0.493	99
Calcium				0.5000	0.501	100	0.500	100	0.496	99
Chromium				0.5000	0.490	98	0.486	97	0.485	97
Cobalt				0.5000	0.500	100	0.496	99	0.493	99
Copper				0.5000	0.483	97	0.481	96	0.482	96
Iron				0.5000	0.527	105	0.524	105	0.514	103
Lead				0.5000	0.490	98	0.486	97	0.484	97
Magnesium				0.5000	0.487	97	0.483	97	0.480	96
Manganese				0.5000	0.503	101	0.502	100	0.499	100
Nickel				0.5000	0.504	101	0.500	100	0.497	99
Potassium				5.0000	5.17	103	5.22	104	5.30	106
Selenium				0.5000	0.482	96	0.484	97	0.479	96
Silver				0.5000	0.496	99	0.492	98	0.490	98
Sodium				10.0000	10.5	105	10.7	107	10.6	106
Thallium				0.5000	0.489	98	0.488	98	0.484	97
Vanadium				0.5000	0.491	98	0.488	98	0.487	97
Zinc				0.5000	0.503	101	0.498	100	0.497	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842862-22			R1842862-24		R1842862-26	
Date Analyzed:				06/19/24 16:42			06/19/24 17:31		06/19/24 18:14	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.475	95	0.468	94	0.475	95
Antimony				0.5000	0.477	95	0.474	95	0.478	96
Arsenic				0.5000	0.471	94	0.471	94	0.469	94
Barium				0.5000	0.483	97	0.482	96	0.482	96
Beryllium				0.5000	0.498	100	0.499	100	0.498	100
Cadmium				0.5000	0.491	98	0.490	98	0.486	97
Calcium				0.5000	0.494	99	0.500	100	0.496	99
Chromium				0.5000	0.481	96	0.481	96	0.480	96
Cobalt				0.5000	0.494	99	0.495	99	0.492	98
Copper				0.5000	0.476	95	0.474	95	0.472	94
Iron				0.5000	0.517	103	0.514	103	0.513	103
Lead				0.5000	0.479	96	0.479	96	0.476	95
Magnesium				0.5000	0.481	96	0.480	96	0.479	96
Manganese				0.5000	0.496	99	0.496	99	0.496	99
Nickel				0.5000	0.497	99	0.499	100	0.496	99
Potassium				5.0000	5.30	106	5.32	106	5.24	105
Selenium				0.5000	0.473	95	0.474	95	0.469	94
Silver				0.5000	0.485	97	0.487	97	0.482	96
Sodium				10.0000	10.5	105	10.5	105	10.6	106
Thallium				0.5000	0.476	95	0.475	95	0.473	95
Vanadium				0.5000	0.483	97	0.482	96	0.482	96
Zinc				0.5000	0.498	100	0.500	100	0.496	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842862-28			R1842862-30			
Date Analyzed :				06/19/24 19:08			06/19/24 19:40			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.472	94	0.471	94		
Antimony				0.5000	0.486	97	0.470	94		
Arsenic				0.5000	0.470	94	0.468	94		
Barium				0.5000	0.484	97	0.483	97		
Beryllium				0.5000	0.505	101	0.500	100		
Cadmium				0.5000	0.492	98	0.486	97		
Calcium				0.5000	0.497	99	0.487	97		
Chromium				0.5000	0.483	97	0.480	96		
Cobalt				0.5000	0.497	99	0.493	99		
Copper				0.5000	0.476	95	0.471	94		
Iron				0.5000	0.525	105	0.515	103		
Lead				0.5000	0.478	96	0.475	95		
Magnesium				0.5000	0.482	96	0.480	96		
Manganese				0.5000	0.500	100	0.495	99		
Nickel				0.5000	0.503	101	0.497	99		
Potassium				5.0000	5.38	108	5.36	107		
Selenium				0.5000	0.474	95	0.468	94		
Silver				0.5000	0.488	98	0.485	97		
Sodium				10.0000	10.7	107	10.6	106		
Thallium				0.5000	0.472	94	0.469	94		
Vanadium				0.5000	0.484	97	0.481	96		
Zinc				0.5000	0.503	101	0.499	100		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842960-1									
Date Analyzed :	06/19/24 05:22									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4860	97							
Antimony	0.500	0.4800	96							
Arsenic	0.500	0.4870	97							
Barium	0.500	0.5000	100							
Beryllium	0.500	0.5110	102							
Cadmium	0.500	0.4760	95							
Calcium	0.500	0.5040	101							
Chromium	0.500	0.4920	98							
Cobalt	0.500	0.4850	97							
Copper	0.500	0.4840	97							
Iron	0.500	0.5180	104							
Lead	0.500	0.4920	98							
Magnesium	0.500	0.5010	100							
Manganese	0.500	0.5020	100							
Nickel	0.500	0.4880	98							
Potassium	5.00	5.2600	105							
Selenium	0.500	0.4740	95							
Silver	0.500	0.4930	99							
Sodium	10.0	10.1000	101							
Thallium	0.500	0.5000	100							
Vanadium	0.500	0.4850	97							
Zinc	0.500	0.4810	96							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842960-3			R1842960-6			R1842960-8			
Date Analyzed:	06/19/24 05:35			06/19/24 08:51			06/19/24 10:14			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4830	97	0.5000	0.500	100	0.515	103		
Antimony	0.500	0.4800	96	0.5000	0.469	94	0.463	93		
Arsenic	0.500	0.4840	97	0.5000	0.495	99	0.519	104		
Barium	0.500	0.4920	98	0.5000	0.512	102	0.528	106		
Beryllium	0.500	0.5000	100	0.5000	0.505	101	0.509	102		
Cadmium	0.500	0.4740	95	0.5000	0.457	91	0.451	90		
Calcium	0.500	0.5000	100	0.5000	0.485	97	0.465	93		
Chromium	0.500	0.4890	98	0.5000	0.496	99	0.512	102		
Cobalt	0.500	0.4830	97	0.5000	0.477	95	0.483	97		
Copper	0.500	0.4800	96	0.5000	0.489	98	0.497	99		
Iron	0.500	0.5040	101	0.5000	0.502	100	0.498	100		
Lead	0.500	0.4910	98	0.5000	0.476	95	0.466	93		
Magnesium	0.500	0.4980	100	0.5000	0.502	100	0.503	101		
Manganese	0.500	0.4930	99	0.5000	0.478	96	0.459	92		
Nickel	0.500	0.4860	97	0.5000	0.474	95	0.470	94		
Potassium	5.00	5.1900	104	5.0000	5.13	103	4.96	99		
Selenium	0.500	0.4720	94	0.5000	0.460	92	0.449	90		
Silver	0.500	0.4930	99	0.5000	0.478	96	0.469	94		
Sodium	10.0	9.9600	100	10.0000	9.97	100	9.84	98		
Thallium	0.500	0.4970	99	0.5000	0.491	98	0.487	97		
Vanadium	0.500	0.4830	97	0.5000	0.472	94	0.472	94		
Zinc	0.500	0.4780	96	0.5000	0.466	93	0.470	94		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1843454-1									
Date Analyzed :	06/20/24 06:09									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5020	100							
Antimony	0.500	0.5040	101							
Arsenic	0.500	0.4810	96							
Barium	0.500	0.5170	103							
Beryllium	0.500	0.5290	106							
Cadmium	0.500	0.4970	99							
Calcium	0.500	0.4970	99							
Chromium	0.500	0.4930	99							
Cobalt	0.500	0.5080	102							
Copper	0.500	0.5010	100							
Iron	0.500	0.5270	105							
Lead	0.500	0.4990	100							
Magnesium	0.500	0.4890	98							
Manganese	0.500	0.5010	100							
Nickel	0.500	0.5090	102							
Potassium	5.00	5.3200	106							
Selenium	0.500	0.4910	98							
Silver	0.500	0.5070	101							
Sodium	10.0	10.2000	102							
Thallium	0.500	0.5060	101							
Vanadium	0.500	0.4890	98							
Zinc	0.500	0.5040	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1843454-3			R1843454-6			R1843454-8		R1843454-10	
Date Analyzed:	06/20/24 06:16			06/20/24 07:56			06/20/24 08:53		06/20/24 09:37	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4920	98	0.5000	0.504	101	0.503	101	0.490	98
Antimony	0.500	0.5080	102	0.5000	0.513	103	0.516	103	0.500	100
Arsenic	0.500	0.4820	96	0.5000	0.492	98	0.484	97	0.479	96
Barium	0.500	0.5030	101	0.5000	0.516	103	0.511	102	0.490	98
Beryllium	0.500	0.5170	103	0.5000	0.528	106	0.526	105	0.506	101
Cadmium	0.500	0.5010	100	0.5000	0.496	99	0.490	98	0.497	99
Calcium	0.500	0.4900	98	0.5000	0.499	100	0.491	98	0.482	96
Chromium	0.500	0.4950	99	0.5000	0.493	99	0.486	97	0.479	96
Cobalt	0.500	0.5110	102	0.5000	0.511	102	0.501	100	0.502	100
Copper	0.500	0.5030	101	0.5000	0.504	101	0.494	99	0.492	98
Iron	0.500	0.5120	102	0.5000	0.525	105	0.518	104	0.501	100
Lead	0.500	0.5000	100	0.5000	0.502	100	0.498	100	0.494	99
Magnesium	0.500	0.4900	98	0.5000	0.489	98	0.477	95	0.475	95
Manganese	0.500	0.4910	98	0.5000	0.501	100	0.496	99	0.478	96
Nickel	0.500	0.5110	102	0.5000	0.508	102	0.500	100	0.489	98
Potassium	5.00	5.1300	103	5.0000	5.31	106	5.23	105	5.09	102
Selenium	0.500	0.4970	99	0.5000	0.503	101	0.492	98	0.490	98
Silver	0.500	0.5110	102	0.5000	0.509	102	0.500	100	0.498	100
Sodium	10.0	10.1000	101	10.0000	10.4	104	10.2	102	9.95	100
Thallium	0.500	0.5060	101	0.5000	0.509	102	0.505	101	0.502	100
Vanadium	0.500	0.4940	99	0.5000	0.491	98	0.486	97	0.482	96
Zinc	0.500	0.5080	102	0.5000	0.503	101	0.494	99	0.486	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842837-2		R1842837-7		R1842837-9		R1842837-11		WG1935943-1	
Date Analyzed :	06/19/24 05:43		06/19/24 07:51		06/19/24 09:22		06/19/24 10:44		06/19/24 15:03	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842837-4		R1842837-13		R1842837-15		R1842837-17			
Date Analyzed:	06/19/24 05:56		06/19/24 12:01		06/19/24 13:20		06/19/24 14:33			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842837-19							
Date Analyzed :			06/19/24 15:58							
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			**0.0318**	**U**						
Antimony			**0.00710**	**U**						
Arsenic			**0.00190**	**U**						
Barium			**0.00210**	**U**						
Cadmium			**0.00100**	**U**						
Chromium			**0.00210**	**U**						
Cobalt			**0.00170**	**U**						
Copper			**0.00220**	**U**						
Lead			**0.00270**	**U**						
Magnesium			**0.0153**	**U**						
Manganese			**0.00160**	**U**						
Nickel			**0.00240**	**U**						
Selenium			**0.00350**	**U**						
Silver			**0.00280**	**U**						
Thallium			**0.00250**	**U**						
Vanadium			**0.00200**	**U**						
Zinc			**0.00210**	**U**						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842862-2		R1842862-5		R1842862-7		R1842862-9			
Date Analyzed :	06/19/24 06:24		06/19/24 08:10		06/19/24 09:20		06/19/24 10:11			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.0101	J	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842862-11		R1842862-13		R1842862-15			
Date Analyzed :			06/19/24 11:19		06/19/24 12:18		06/19/24 13:26			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842862-17		R1842862-19		R1842862-21			
Date Analyzed :			06/19/24 14:16		06/19/24 15:07		06/19/24 15:52			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.283	J	0.172	J		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842862-23		R1842862-25		R1842862-27			
Date Analyzed :			06/19/24 16:46		06/19/24 17:35		06/19/24 18:18			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.139	J		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842862-29		R1842862-31					
Date Analyzed :			06/19/24 19:12		06/19/24 19:44					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00190	U				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00900	U	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Potassium			0.237	U	0.237	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842960-2		R1842960-7		R1842960-9				WG1935889-1	
Date Analyzed :	06/19/24 05:29		06/19/24 08:58		06/19/24 10:20				06/19/24 09:09	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U			0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U			0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U			0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U			0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U			0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U			0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U			0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U			0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U			0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U			0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U			0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U			0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U			0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U			0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U			0.0024	U
Potassium	0.237	U	0.237	U	0.237	U			0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U			0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U			0.0028	U
Sodium	0.120	U	0.120	U	0.120	U			0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U			0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U			0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U			0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1842960-4				
Date Analyzed :	06/19/24 05:42				

Parameter	mg/l	Q	Q	Q	Q	Q
Aluminum	0.0318	U				
Antimony	0.00710	U				
Arsenic	0.00190	U				
Barium	0.00210	U				
Beryllium	0.000900	U				
Cadmium	0.00100	U				
Calcium	0.0350	U				
Chromium	0.00210	U				
Cobalt	0.00170	U				
Copper	0.00220	U				
Iron	0.00900	U				
Lead	0.00270	U				
Magnesium	0.0153	U				
Manganese	0.00160	U				
Nickel	0.00240	U				
Potassium	0.237	U				
Selenium	0.00350	U				
Silver	0.00280	U				
Sodium	0.120	U				
Thallium	0.00250	U				
Vanadium	0.00200	U				
Zinc	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1843454-2		R1843454-7		R1843454-9		R1843454-11		WG1935943-1	
Date Analyzed :	06/20/24 06:13		06/20/24 08:00		06/20/24 08:56		06/20/24 09:41		06/20/24 08:18	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00722	J	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:		

		Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID	:	R1843454-4				
Date Analyzed	:	06/20/24 06:20				

Parameter	mg/l	Q	Q	Q	Q	Q
Aluminum	0.0318	U				
Antimony	0.00710	U				
Arsenic	0.00190	U				
Barium	0.00210	U				
Beryllium	0.000900	U				
Cadmium	0.00100	U				
Calcium	0.0350	U				
Chromium	0.00210	U				
Cobalt	0.00170	U				
Copper	0.00220	U				
Iron	0.00900	U				
Lead	0.00270	U				
Magnesium	0.0153	U				
Manganese	0.00160	U				
Nickel	0.00240	U				
Potassium	0.237	U				
Selenium	0.00350	U				
Silver	0.00280	U				
Sodium	0.120	U				
Thallium	0.00250	U				
Vanadium	0.00200	U				
Zinc	0.00210	U				

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842837-5							
Analysis Date :			06/19/24 06:09							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		529.	106						
Antimony			0.0116							
Arsenic			-0.00360							
Barium			0.00208							
Cadmium			0.00252							
Chromium			0.000202							
Cobalt			0.000287							
Copper			-0.0124							
Lead			0.00312							
Magnesium	500		505.	101						
Manganese			-0.0000225							
Nickel			-0.00922							
Selenium			0.00840							
Silver			0.00133							
Thallium			0.00000515							
Vanadium			-0.000375							
Zinc			0.0000672							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842862-3							
Analysis Date :			06/19/24 06:33							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		498.	100						
Antimony			0.000818							
Arsenic			-0.00132							
Barium			0.00181							
Beryllium			0.0000765							
Cadmium			-0.0000221							
Calcium	500		472.	94						
Chromium			-0.00114							
Cobalt			-0.000878							
Copper			-0.00305							
Iron	200		190.	95						
Lead			-0.00196							
Magnesium	500		479.	96						
Manganese			0.00208							
Nickel			-0.000712							
Potassium			0.0449							
Selenium			-0.00229							
Silver			-0.000626							
Sodium			0.0181							
Thallium			0.00305							
Vanadium			0.000709							
Zinc			0.000450							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842960-5							
Analysis Date :			06/19/24 05:55							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		511.	102						
Antimony			0.00871							
Arsenic			-0.00930							
Barium			0.00222							
Beryllium			-0.0000939							
Cadmium			-0.00331							
Calcium	500		468.	94						
Chromium			-0.000447							
Cobalt			0.000261							
Copper			0.00168							
Iron	200		183.	92						
Lead			-0.00848							
Magnesium	500		474.	95						
Manganese			0.00218							
Nickel			-0.000959							
Potassium			0.0778							
Selenium			0.00172							
Silver			0.000134							
Sodium			0.0443							
Thallium			-0.00642							
Vanadium			-0.000853							
Zinc			0.000958							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1843454-5							
Analysis Date :			06/20/24 06:56							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		531.	106						
Antimony			-0.0113							
Arsenic			-0.00375							
Barium			0.00239							
Beryllium			0.0000632							
Cadmium			-0.000637							
Calcium	500		481.	96						
Chromium			0.000294							
Cobalt			-0.000621							
Copper			-0.00902							
Iron	200		194.	97						
Lead			0.00286							
Magnesium	500		480.	96						
Manganese			-0.000755							
Nickel			-0.000753							
Potassium			-0.0443							
Selenium			0.00740							
Silver			-0.00469							
Sodium			0.00850							
Thallium			0.00377							
Vanadium			0.00149							
Zinc			-0.000798							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1935943-3	**MS Analysis Date**	: 06/19/24 15:21
Matrix Spike Dup	: WG1935943-4	**MSD Analysis Date**	: 06/19/24 15:27

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	1.85	92	2	1.95	98	5	75-125	20
Antimony, Dissolved	ND	0.5	0.487	97	0.5	0.508	102	4	75-125	20
Arsenic, Dissolved	ND	0.12	0.118	98	0.12	0.123	102	4	75-125	20
Barium, Dissolved	0.0470	2	1.88	92	2	1.99	97	6	75-125	20
Cadmium, Dissolved	ND	0.053	0.0518	98	0.053	0.0535	101	3	75-125	20
Chromium, Dissolved	ND	0.2	0.200	100	0.2	0.206	103	3	75-125	20
Cobalt, Dissolved	ND	0.5	0.468	94	0.5	0.485	97	4	75-125	20
Copper, Dissolved	ND	0.25	0.253	101	0.25	0.261	104	3	75-125	20
Lead, Dissolved	ND	0.53	0.513	97	0.53	0.530	100	3	75-125	20
Magnesium, Dissolved	6.84	10	15.4	86	10	16.3	95	6	75-125	20
Manganese, Dissolved	ND	0.5	0.434	87	0.5	0.458	92	5	75-125	20
Nickel, Dissolved	ND	0.5	0.466	93	0.5	0.482	96	3	75-125	20
Selenium, Dissolved	ND	0.12	0.118	98	0.12	0.124	103	5	75-125	20
Silver, Dissolved	ND	0.05	0.0496	99	0.05	0.0508	102	2	75-125	20
Thallium, Dissolved	ND	0.12	0.117	98	0.12	0.121	101	3	75-125	20
Vanadium, Dissolved	ND	0.5	0.495	99	0.5	0.510	102	3	75-125	20
Zinc, Dissolved	ND	0.5	0.488	98	0.5	0.505	101	3	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: LIQUID
Lab Sample ID	: L2433492-01		
Matrix Spike	: WG1935889-7	**MS Analysis Date**	: 06/19/24 18:52
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	1.89	94					75-125	20
Antimony, Total	ND	0.5	0.428	86					75-125	20
Arsenic, Total	ND	0.12	0.121	101					75-125	20
Barium, Total	0.012	2	1.89	94					75-125	20
Beryllium, Total	ND	0.05	0.0494	99					75-125	20
Cadmium, Total	0.179	0.053	0.226	89					75-125	20
Calcium, Total	46.8	10	55.5	87					75-125	20
Chromium, Total	0.003J	0.2	0.195	98					75-125	20
Cobalt, Total	ND	0.5	0.481	96					75-125	20
Copper, Total	0.004J	0.25	0.247	99					75-125	20
Iron, Total	0.082	1	1.07	99					75-125	20
Lead, Total	ND	0.53	0.522	98					75-125	20
Magnesium, Total	5.93	10	15.5	96					75-125	20
Manganese, Total	0.113	0.5	0.606	99					75-125	20
Nickel, Total	ND	0.5	0.489	98					75-125	20
Potassium, Total	5.45	10	16.2	108					75-125	20
Selenium, Total	ND	0.12	0.116	97					75-125	20
Silver, Total	ND	0.05	0.0488	98					75-125	20
Sodium, Total	16.4	10	26.5	101					75-125	20
Thallium, Total	ND	0.12	0.118	98					75-125	20
Vanadium, Total	ND	0.5	0.494	99					75-125	20
Zinc, Total	0.006	0.5	0.505	100					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: LIQUID
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1935889-3	**MS Analysis Date**	: 06/19/24 09:48
Matrix Spike Dup	: WG1935889-4	**MSD Analysis Date**	: 06/19/24 09:55

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.0548J	2	2.25	112	2	2.26	113	0	75-125	20
Antimony, Total	ND	0.5	0.456	91	0.5	0.456	91	0	75-125	20
Arsenic, Total	ND	0.12	0.127	106	0.12	0.128	107	1	75-125	20
Barium, Total	0.0558	2	2.27	111	2	2.28	111	0	75-125	20
Beryllium, Total	ND	0.05	0.0540	108	0.05	0.0538	108	0	75-125	20
Cadmium, Total	ND	0.053	0.0484	91	0.053	0.0484	91	0	75-125	20
Calcium, Total	15.7	10	24.9	92	10	25.4	97	2	75-125	20
Chromium, Total	0.0021J	0.2	0.201	100	0.2	0.199	100	1	75-125	20
Cobalt, Total	ND	0.5	0.463	93	0.5	0.460	92	1	75-125	20
Copper, Total	ND	0.25	0.252	101	0.25	0.249	100	1	75-125	20
Iron, Total	0.0911	1	1.11	102	1	1.11	102	0	75-125	20
Lead, Total	ND	0.53	0.482	91	0.53	0.490	92	2	75-125	20
Magnesium, Total	7.07	10	16.6	95	10	16.8	97	1	75-125	20
Manganese, Total	0.0022J	0.5	0.494	99	0.5	0.492	98	0	75-125	20
Nickel, Total	ND	0.5	0.453	91	0.5	0.451	90	0	75-125	20
Potassium, Total	1.42J	10	11.7	117	10	12.0	120	3	75-125	20
Selenium, Total	ND	0.12	0.108	90	0.12	0.109	91	1	75-125	20
Silver, Total	ND	0.05	0.0469	94	0.05	0.0464	93	1	75-125	20
Sodium, Total	20.3	10	30.2	99	10	31.0	107	3	75-125	20
Thallium, Total	ND	0.12	0.111	92	0.12	0.113	94	2	75-125	20
Vanadium, Total	ND	0.5	0.464	93	0.5	0.461	92	1	75-125	20
Zinc, Total	ND	0.5	0.464	93	0.5	0.464	93	0	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1935943-3	**MS Analysis Date**	: 06/20/24 08:39
Matrix Spike Dup	: WG1935943-4	**MSD Analysis Date**	: 06/20/24 08:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Beryllium, Dissolved	ND	0.05	0.0534	107	0.05	0.0524	105	2	75-125	20
Calcium, Dissolved	16.6	10	26.1	95	10	26.3	97	1	75-125	20
Iron, Dissolved	ND	1	1.05	105	1	1.03	103	2	75-125	20
Potassium, Dissolved	1.37J	10	12.4	124	10	12.2	122	2	75-125	20
Sodium, Dissolved	20.4	10	30.2	98	10	30.6	102	1	75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/19/24 18:48
Dup Sample ID	: WG1935889-8	**DUP Analysis Date**	: 06/19/24 18:56

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Vanadium, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935943-2	**LCS Analysis Date**	: 06/19/24 15:09
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	1.95	98.					85-115	20
Antimony, Dissolved	0.500	0.486	97.					85-115	20
Arsenic, Dissolved	0.120	0.116	97.					85-115	20
Barium, Dissolved	2.00	1.94	97.					85-115	20
Cadmium, Dissolved	0.0530	0.0521	98.					85-115	20
Chromium, Dissolved	0.200	0.198	99.					85-115	20
Cobalt, Dissolved	0.500	0.474	95.					85-115	20
Copper, Dissolved	0.250	0.251	100.					85-115	20
Lead, Dissolved	0.530	0.518	98.					85-115	20
Magnesium, Dissolved	10.0	9.21	92.					85-115	20
Manganese, Dissolved	0.500	0.457	91.					85-115	20
Nickel, Dissolved	0.500	0.476	95.					85-115	20
Selenium, Dissolved	0.120	0.115	96.					85-115	20
Silver, Dissolved	0.0500	0.0499	100.					85-115	20
Thallium, Dissolved	0.120	0.117	98.					85-115	20
Vanadium, Dissolved	0.500	0.495	99.					85-115	20
Zinc, Dissolved	0.500	0.489	98.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: LIQUID
Lab Sample ID	: WG1935889-2	**LCS Analysis Date**	: 06/19/24 09:16
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aluminum, Total	2.00	2.13	106.					85-115	20
Antimony, Total	0.500	0.450	90.					85-115	20
Arsenic, Total	0.120	0.123	102.					85-115	20
Barium, Total	2.00	2.17	108.					85-115	20
Beryllium, Total	0.0500	0.0528	106.					85-115	20
Cadmium, Total	0.0530	0.0483	91.					85-115	20
Calcium, Total	10.0	10.1	101.					85-115	20
Chromium, Total	0.200	0.195	98.					85-115	20
Cobalt, Total	0.500	0.458	92.					85-115	20
Copper, Total	0.250	0.248	99.					85-115	20
Iron, Total	1.00	1.05	105.					85-115	20
Lead, Total	0.530	0.499	94.					85-115	20
Magnesium, Total	10.0	9.78	98.					85-115	20
Manganese, Total	0.500	0.502	100.					85-115	20
Nickel, Total	0.500	0.454	91.					85-115	20
Potassium, Total	10.0	10.7	107.					85-115	20
Selenium, Total	0.120	0.108	90.					85-115	20
Silver, Total	0.0500	0.0473	95.					85-115	20
Sodium, Total	10.0	10.8	108.					85-115	20
Thallium, Total	0.120	0.114	95.					85-115	20
Vanadium, Total	0.500	0.462	92.					85-115	20
Zinc, Total	0.500	0.455	91.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935943-2	**LCS Analysis Date**	: 06/20/24 08:21
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Beryllium, Dissolved	0.0500	0.0534	107.					85-115	20
Calcium, Dissolved	10.0	10.6	106.					85-115	20
Iron, Dissolved	1.00	1.07	107.					85-115	20
Potassium, Dissolved	10.0	11.0	110.					85-115	20
Sodium, Dissolved	10.0	11.0	110.					85-115	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 15:15
Serial Dilution ID	: WG1935943-6	**Analysis Date**	: 06/19/24 15:40

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Magnesium, Dissolved	6.84	6.85	0	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 09:42
Serial Dilution ID	: WG1935889-6	**Analysis Date**	: 06/19/24 10:07

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	15.7	15.2	3	20
Magnesium, Total	7.07	7.13	1	20

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10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

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10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433375-04	06/18/24 15:53	-	50
WG1935943-1	06/18/24 15:53	-	50
WG1935943-2	06/18/24 15:53	-	50
WG1935943-3	06/18/24 15:53	-	50
WG1935943-4	06/18/24 15:53	-	50
WG1935943-5	06/18/24 15:53	-	50
WG1935943-6	06/18/24 15:53	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433375-01	06/18/24 15:23	-	50
L2433375-02	06/18/24 15:23	-	50
L2433375-03	06/18/24 15:23	-	50
L2433375-05	06/18/24 15:23	-	50
L2433375-06	06/18/24 15:23	-	50
L2433375-07	06/18/24 15:23	-	50
L2433375-08	06/18/24 15:23	-	50
WG1935889-7	06/18/24 15:23	-	50
WG1935889-8	06/18/24 15:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433375-04	06/18/24 15:23	-	50
WG1935889-1	06/18/24 15:23	-	50
WG1935889-2	06/18/24 15:23	-	50
WG1935889-3	06/18/24 15:23	-	50
WG1935889-4	06/18/24 15:23	-	50
WG1935889-5	06/18/24 15:23	-	50
WG1935889-6	06/18/24 15:23	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433375-01	06/18/24 15:53	-	50
L2433375-02	06/18/24 15:53	-	50
L2433375-03	06/18/24 15:53	-	50
L2433375-04	06/18/24 15:53	-	50
L2433375-05	06/18/24 15:53	-	50
L2433375-06	06/18/24 15:53	-	50
L2433375-07	06/18/24 15:53	-	50
L2433375-08	06/18/24 15:53	-	50
WG1935943-1	06/18/24 15:53	-	50
WG1935943-2	06/18/24 15:53	-	50
WG1935943-3	06/18/24 15:53	-	50
WG1935943-4	06/18/24 15:53	-	50
WG1935943-5	06/18/24 15:53	-	50
WG1935943-6	06/18/24 15:53	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 06/19/24 05:37	**End Date**	: 06/19/24 15:58

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Selenium, Dissolved	Silver, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1842837-1 ICV	1	05:37:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-2 ICB	1	05:43:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-3 ICV	1	05:50:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-4 ICB	1	05:56:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-5 ICSA	1	06:09:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-6 CCV	1	07:45:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-7 CCB	1	07:51:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-8 CCV	1	09:15:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-9 CCB	1	09:22:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-10 CCV	1	10:38:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-11 CCB	1	10:44:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-12 CCV	1	11:55:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-13 CCB	1	12:01:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-14 CCV	1	13:14:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-15 CCB	1	13:20:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-16 CCV	1	14:27:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-17 CCB	1	14:33:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935943-1 BLANK	1	15:03:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935943-2 LCS	1	15:09:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-04	1	15:15:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935943-3 MS	1	15:21:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935943-4 MSD	1	15:27:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935943-5 PS	1	15:33:59																	
WG1935943-6 SERDIL	5	15:40:05										X							
R1842837-18 CCV	1	15:52:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842837-19 CCB	1	15:58:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/19/24 06:20	**End Date**	: 06/19/24 19:44

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1842862-1 ICV	1	06:20:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-2 ICB	1	06:24:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-3 ICSA	1	06:33:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-4 CCV	1	08:06:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-5 CCB	1	08:10:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-6 CCV	1	09:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-7 CCB	1	09:20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-8 CCV	1	10:07:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-9 CCB	1	10:11:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-10 CCV	1	11:15:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-11 CCB	1	11:19:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-12 CCV	1	12:14:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-13 CCB	1	12:18:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-14 CCV	1	13:22:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-15 CCB	1	13:26:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-16 CCV	1	14:12:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-17 CCB	1	14:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-18 CCV	1	15:03:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-19 CCB	1	15:07:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-20 CCV	1	15:48:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-21 CCB	1	15:52:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-22 CCV	1	16:42:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-23 CCB	1	16:46:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-24 CCV	1	17:31:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-25 CCB	1	17:35:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-26 CCV	1	18:14:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-27 CCB	1	18:18:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/19/24 06:20	**End Date**	: 06/19/24 19:44

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
L2433375-01	1	18:32:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-02	1	18:36:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-03	1	18:40:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-05	1	18:44:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935889-7 MS	1	18:52:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935889-8 DUP	1	18:56:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-28 CCV	1	19:08:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-29 CCB	1	19:12:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-06	1	19:16:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-07	1	19:20:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-08	1	19:24:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-30 CCV	1	19:40:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-31 CCB	1	19:44:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Analysis Method**	: 19,200.7
Start Date	: 06/19/24 05:22	**End Date**	: 06/19/24 10:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1842960-1 ICV	1	05:22:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842960-2 ICB	1	05:29:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842960-3 ICV	1	05:35:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842960-4 ICB	1	05:42:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842960-5 ICSA	1	05:55:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842960-6 CCV	1	08:51:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842960-7 CCB	1	08:58:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935889-1 BLANK	1	09:09:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935889-2 LCS	1	09:16:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-04	1	09:42:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935889-3 MS	1	09:48:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935889-4 MSD	1	09:55:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935889-5 PS	1	10:01:25																						
WG1935889-6 SERDIL	5	10:07:43							X						X									
R1842960-8 CCV	1	10:14:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842960-9 CCB	1	10:20:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 06/20/24 06:09	**End Date**	: 06/20/24 09:41

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1843454-1 ICV	1	06:09:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-2 ICB	1	06:13:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-3 ICV	1	06:16:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-4 ICB	1	06:20:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-5 ICSA	1	06:56:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-6 CCV	1	07:56:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-7 CCB	1	08:00:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935943-1 BLANK	1	08:18:14					X		X				X					X			X			
WG1935943-2 LCS	1	08:21:58					X		X				X					X			X			
L2433375-01	1	08:25:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-02	1	08:28:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-03	1	08:32:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-04	1	08:35:53					X		X				X					X			X			
WG1935943-3 MS	1	08:39:23					X		X				X					X			X			
WG1935943-4 MSD	1	08:42:54					X		X				X					X			X			
WG1935943-5 PS	1	08:46:26																						
WG1935943-6 SERDIL	5	08:49:52																						
R1843454-8 CCV	1	08:53:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-9 CCB	1	08:56:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-05	1	09:09:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-06	1	09:13:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-07	1	09:16:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433375-08	1	09:20:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-10 CCV	1	09:37:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1843454-11 CCB	1	09:41:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM2962-1
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METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: Blank DHL Trace8
Analysis started at: 6/19/2024 6:11:57 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.5 %	-0.1 %	-1.1 %	0.2 %	0.2 %	-0.5 %	-0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.9 %	0.1 %	-0.4 %	0.2 %	-0.2 %	0.6 %	-0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.2 %	0.3 %	0.4 %	0.8 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	3.2 %	0.3 %	0.2 %	1.7 %	-0.2 %	-0.8 %	-0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	3.8 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: ICAL
Analysis started at: 6/19/2024 6:16:15 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0089 ppm	24.9367 ppm	1.0052 ppm	1.0099 ppm	1.0003 ppm	0.9989 ppm	9.9943 ppm
Concentration per Run 2	0.9975 ppm	25.0652 ppm	1.0036 ppm	0.9950 ppm	1.0027 ppm	0.9984 ppm	10.0050 ppm
Concentration per Run 3	0.9936 ppm	24.9981 ppm	0.9912 ppm	0.9951 ppm	0.9970 ppm	1.0027 ppm	10.0007 ppm
Concentration RSD	0.8 %	0.3 %	0.8 %	0.9 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0095 ppm	1.0095 ppm	1.0083 ppm	1.0076 ppm	24.9699 ppm	34.9366 ppm	1.0083 ppm
Concentration per Run 2	0.9965 ppm	0.9969 ppm	1.0005 ppm	1.0007 ppm	25.0152 ppm	35.1077 ppm	1.0048 ppm
Concentration per Run 3	0.9940 ppm	0.9936 ppm	0.9911 ppm	0.9918 ppm	25.0149 ppm	34.9557 ppm	0.9869 ppm
Concentration RSD	0.8 %	0.8 %	0.9 %	0.8 %	0.1 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0906 ppm	0.9991 ppm	0.9977 ppm	25.0874 ppm	1.0062 ppm	1.0023 ppm	1.0114 ppm
Concentration per Run 2	9.9617 ppm	1.0009 ppm	0.9995 ppm	25.0196 ppm	1.0024 ppm	0.9980 ppm	0.9938 ppm
Concentration per Run 3	9.9476 ppm	1.0001 ppm	1.0028 ppm	24.8930 ppm	0.9915 ppm	0.9997 ppm	0.9948 ppm
Concentration RSD	0.8 %	0.1 %	0.3 %	0.4 %	0.8 %	0.2 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0042 ppm	10.0888 ppm	1.0055 ppm	0.9977 ppm	1.0078 ppm	1.0003 ppm	1.0079 ppm
Concentration per Run 2	1.0037 ppm	9.9726 ppm	1.0040 ppm	0.9951 ppm	0.9991 ppm	1.0025 ppm	0.9972 ppm
Concentration per Run 3	0.9921 ppm	9.9385 ppm	0.9904 ppm	1.0072 ppm	0.9931 ppm	0.9972 ppm	0.9948 ppm
Concentration RSD	0.7 %	0.8 %	0.8 %	0.6 %	0.7 %	0.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	99.4758 %	102.5363 %	96.5800 %	92.3591 %	97.8838 %	93.8499 %
Concentration per Run 1	1.0100 ppm	98.4824 %	102.5646 %	96.3779 %	91.2351 %	97.8263 %	93.5378 %
Concentration per Run 2	1.0017 ppm	99.8949 %	102.4252 %	96.4741 %	92.8387 %	98.0547 %	93.8400 %
Concentration per Run 3	0.9883 ppm	100.0501 %	102.6192 %	96.8880 %	93.0035 %	97.7704 %	94.1718 %
Concentration RSD	1.1 %	0.9 %	0.1 %	0.3 %	1.1 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: ICV
Analysis started at: 6/19/2024 6:20:10 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5071 ppm	0.4992 ppm	0.4852 ppm	0.4983 ppm	0.5020 ppm	0.5090 ppm	0.4879 ppm
Concentration per Run 1	0.5135 ppm	0.5083 ppm	0.4840 ppm	0.5049 ppm	0.5043 ppm	0.5110 ppm	0.4866 ppm
Concentration per Run 2	0.5048 ppm	0.4923 ppm	0.4893 ppm	0.4982 ppm	0.5020 ppm	0.5092 ppm	0.4891 ppm
Concentration per Run 3	0.5029 ppm	0.4969 ppm	0.4825 ppm	0.4917 ppm	0.4996 ppm	0.5067 ppm	0.4880 ppm
Recovery Percentage 1	101.420 %	99.835 %	97.050 %	99.655 %	100.391 %	101.797 %	97.581 %
Concentration RSD	1.1 %	1.7 %	0.7 %	1.3 %	0.5 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5096 ppm	0.5134 ppm	0.4988 ppm	0.4938 ppm	0.5053 ppm	5.2645 ppm	0.4971 ppm
Concentration per Run 1	0.5161 ppm	0.5210 ppm	0.5068 ppm	0.5003 ppm	0.5082 ppm	5.2929 ppm	0.5005 ppm
Concentration per Run 2	0.5080 ppm	0.5108 ppm	0.4944 ppm	0.4931 ppm	0.5044 ppm	5.2755 ppm	0.4971 ppm
Concentration per Run 3	0.5047 ppm	0.5085 ppm	0.4953 ppm	0.4880 ppm	0.5032 ppm	5.2250 ppm	0.4936 ppm
Recovery Percentage 1	101.915 %	102.680 %	99.766 %	98.755 %	101.051 %	105.290 %	99.414 %
Concentration RSD	1.2 %	1.3 %	1.4 %	1.2 %	0.5 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4956 ppm	0.4961 ppm	0.5030 ppm	10.1993 ppm	0.5125 ppm	0.4979 ppm	0.5001 ppm
Concentration per Run 1	0.5029 ppm	0.4965 ppm	0.5058 ppm	10.2152 ppm	0.5198 ppm	0.4988 ppm	0.5067 ppm
Concentration per Run 2	0.4930 ppm	0.4961 ppm	0.5007 ppm	10.2083 ppm	0.5080 ppm	0.4972 ppm	0.4963 ppm
Concentration per Run 3	0.4910 ppm	0.4959 ppm	0.5024 ppm	10.1744 ppm	0.5095 ppm	0.4979 ppm	0.4975 ppm
Recovery Percentage 1	99.128 %	99.228 %	100.595 %	101.993 %	102.490 %	99.590 %	100.028 %
Concentration RSD	1.3 %	0.1 %	0.5 %	0.2 %	1.3 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4952 ppm	5.2254 ppm	0.5204 ppm	0.4956 ppm	0.5063 ppm	0.4948 ppm	0.4991 ppm
Concentration per Run 1	0.4965 ppm	5.2964 ppm	0.5269 ppm	0.4972 ppm	0.5136 ppm	0.4943 ppm	0.5064 ppm
Concentration per Run 2	0.4993 ppm	5.2001 ppm	0.5166 ppm	0.4957 ppm	0.5036 ppm	0.4956 ppm	0.4970 ppm
Concentration per Run 3	0.4899 ppm	5.1796 ppm	0.5177 ppm	0.4937 ppm	0.5017 ppm	0.4944 ppm	0.4938 ppm
Recovery Percentage 1	99.048 %	99.531 %	104.082 %	99.112 %	101.255 %	98.956 %	99.812 %
Concentration RSD	1.0 %	1.2 %	1.1 %	0.4 %	1.3 %	0.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5128 ppm	99.4245 %	103.7292 %	99.4807 %	94.2445 %	100.0908 %	96.0608 %
Concentration per Run 1	0.5208 ppm	98.3003 %	103.8891 %	99.4177 %	93.0746 %	100.2189 %	96.1110 %
Concentration per Run 2	0.5086 ppm	99.6718 %	102.9251 %	99.8059 %	94.6404 %	99.1642 %	96.1829 %
Concentration per Run 3	0.5089 ppm	100.3015 %	104.3735 %	99.2184 %	95.0185 %	100.8893 %	95.8883 %
Recovery Percentage 1	102.558 %						
Concentration RSD	1.4 %	1.0 %	0.7 %	0.3 %	1.1 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: ICB
Analysis started at: 6/19/2024 6:24:06 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0015 ppm	-0.0002 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	-0.0008 ppm	0.0023 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	-0.0020 ppm	0.0005 ppm	-0.0007 ppm	-0.0002 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 3	-0.0002 ppm	0.0061 ppm	-0.0003 ppm	0.0031 ppm	-0.0002 ppm	0.0000 ppm	-0.0018 ppm
Recovery Percentage 1	1.794 %	1.490 %	-5.542 %	5.249 %	-1.869 %	0.597 %	-1.321 %
Concentration RSD	236.9 %	281.6 %	389.7 %	126.4 %	21.9 %	236.3 %	79.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0101 ppm	-0.0038 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0053 ppm	0.0056 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0003 ppm	0.0023 ppm	-0.0050 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0010 ppm	0.0226 ppm	-0.0120 ppm	-0.0025 ppm
Recovery Percentage 1	1.398 %	0.124 %	-4.361 %	6.194 %	20.157 %	-0.152 %	-0.060 %
Concentration RSD	67.6 %	1,985.8 %	30.1 %	51.6 %	108.7 %	232.6 %	36,985.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0013 ppm	-0.0037 ppm	-0.0001 ppm	-0.0011 ppm	0.0022 ppm
Concentration per Run 1	0.0020 ppm	0.0000 ppm	0.0016 ppm	-0.0097 ppm	-0.0005 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 2	-0.0013 ppm	-0.0001 ppm	0.0011 ppm	-0.0043 ppm	0.0002 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 3	-0.0011 ppm	0.0002 ppm	0.0014 ppm	0.0028 ppm	0.0000 ppm	-0.0021 ppm	0.0047 ppm
Recovery Percentage 1	-0.109 %	0.413 %	2.690 %	-0.187 %	-0.484 %	-10.900 %	4.302 %
Concentration RSD	1,699.6 %	457.4 %	17.2 %	167.3 %	306.0 %	118.0 %	107.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0019 ppm	-0.0006 ppm	-0.0019 ppm	0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 2	-0.0002 ppm	-0.0014 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 3	-0.0022 ppm	0.0018 ppm	-0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-14.645 %	-0.017 %	-2.021 %	0.404 %	-1.551 %	-3.154 %	2.022 %
Concentration RSD	74.0 %	1,989.1 %	79.6 %	214.4 %	56.5 %	180.1 %	76.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	93.2154 %	99.8256 %	95.5572 %	94.6985 %	100.5591 %	96.9942 %
Concentration per Run 1	0.0002 ppm	90.9197 %	100.0058 %	95.1218 %	92.9400 %	101.2345 %	96.8871 %
Concentration per Run 2	0.0001 ppm	93.5812 %	99.7261 %	95.7360 %	94.9902 %	100.2816 %	96.8360 %
Concentration per Run 3	0.0000 ppm	95.1454 %	99.7448 %	95.8138 %	96.1654 %	100.1612 %	97.2596 %
Recovery Percentage 1	2.403 %						
Concentration RSD	89.4 %	2.3 %	0.2 %	0.4 %	1.7 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LLOQ
Analysis started at: 6/19/2024 6:29:25 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0074 ppm	0.1021 ppm	0.0044 ppm	0.0311 ppm	0.0103 ppm	0.0051 ppm	0.1016 ppm
Concentration per Run 1	0.0079 ppm	0.1017 ppm	0.0044 ppm	0.0326 ppm	0.0104 ppm	0.0051 ppm	0.0982 ppm
Concentration per Run 2	0.0073 ppm	0.1048 ppm	0.0046 ppm	0.0302 ppm	0.0103 ppm	0.0051 ppm	0.1035 ppm
Concentration per Run 3	0.0070 ppm	0.0997 ppm	0.0044 ppm	0.0304 ppm	0.0103 ppm	0.0050 ppm	0.1031 ppm
Recovery Percentage 1	105.761 %	102.068 %	88.943 %	103.565 %	103.223 %	101.797 %	101.601 %
Concentration RSD	6.2 %	2.5 %	2.4 %	4.2 %	0.7 %	0.9 %	2.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0214 ppm	0.0104 ppm	0.0111 ppm	0.0611 ppm	2.7555 ppm	0.0106 ppm
Concentration per Run 1	0.0042 ppm	0.0218 ppm	0.0103 ppm	0.0110 ppm	0.0623 ppm	2.7901 ppm	0.0121 ppm
Concentration per Run 2	0.0042 ppm	0.0215 ppm	0.0108 ppm	0.0113 ppm	0.0591 ppm	2.7401 ppm	0.0104 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0100 ppm	0.0109 ppm	0.0618 ppm	2.7363 ppm	0.0094 ppm
Recovery Percentage 1	83.695 %	106.829 %	103.692 %	110.918 %	122.108 %	110.220 %	106.212 %
Concentration RSD	0.5 %	2.6 %	4.0 %	2.0 %	2.8 %	1.1 %	13.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1047 ppm	0.0107 ppm	0.0521 ppm	2.2045 ppm	0.0258 ppm	0.0098 ppm	0.0491 ppm
Concentration per Run 1	0.1072 ppm	0.0107 ppm	0.0517 ppm	2.2037 ppm	0.0257 ppm	0.0104 ppm	0.0485 ppm
Concentration per Run 2	0.1030 ppm	0.0105 ppm	0.0519 ppm	2.2099 ppm	0.0258 ppm	0.0097 ppm	0.0518 ppm
Concentration per Run 3	0.1039 ppm	0.0110 ppm	0.0526 ppm	2.2000 ppm	0.0260 ppm	0.0093 ppm	0.0471 ppm
Recovery Percentage 1	104.706 %	107.466 %	104.180 %	110.225 %	103.396 %	98.138 %	98.209 %
Concentration RSD	2.1 %	2.7 %	0.9 %	0.2 %	0.4 %	5.9 %	4.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0078 ppm	0.5385 ppm	0.0525 ppm	0.0101 ppm	0.0511 ppm	0.0187 ppm	0.0100 ppm
Concentration per Run 1	0.0078 ppm	0.5449 ppm	0.0546 ppm	0.0101 ppm	0.0518 ppm	0.0201 ppm	0.0100 ppm
Concentration per Run 2	0.0080 ppm	0.5362 ppm	0.0511 ppm	0.0101 ppm	0.0510 ppm	0.0182 ppm	0.0102 ppm
Concentration per Run 3	0.0076 ppm	0.5344 ppm	0.0518 ppm	0.0101 ppm	0.0506 ppm	0.0179 ppm	0.0099 ppm
Recovery Percentage 1	78.014 %	107.700 %	104.983 %	100.877 %	102.267 %	93.597 %	100.000 %
Concentration RSD	2.6 %	1.0 %	3.5 %	0.2 %	1.2 %	6.3 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0056 ppm	98.3763 %	102.1036 %	98.6015 %	94.9613 %	99.3968 %	96.6143 %
Concentration per Run 1	0.0055 ppm	97.3167 %	101.4899 %	98.7194 %	94.3343 %	98.8168 %	97.1369 %
Concentration per Run 2	0.0057 ppm	98.5211 %	101.4364 %	98.1177 %	95.0396 %	98.5560 %	95.9133 %
Concentration per Run 3	0.0056 ppm	99.2910 %	103.3844 %	98.9675 %	95.5100 %	100.8174 %	96.7927 %
Recovery Percentage 1	111.881 %						
Concentration RSD	1.4 %	1.0 %	1.1 %	0.4 %	0.6 %	1.2 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: ICSA
Analysis started at: 6/19/2024 6:33:25 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	498.5300 ppm	-0.0013 ppm	0.0019 ppm	0.0018 ppm	0.0001 ppm	472.5740 ppm
Concentration per Run 1	-0.0007 ppm	497.3950 ppm	-0.0026 ppm	0.0031 ppm	0.0020 ppm	0.0001 ppm	472.4316 ppm
Concentration per Run 2	-0.0005 ppm	499.7258 ppm	-0.0008 ppm	0.0024 ppm	0.0017 ppm	0.0001 ppm	472.3858 ppm
Concentration per Run 3	-0.0006 ppm	498.4694 ppm	-0.0006 ppm	0.0001 ppm	0.0017 ppm	0.0001 ppm	472.9046 ppm
Recovery Percentage 1	-8.944 %	498,530.042 %	-43.845 %	6.187 %	18.070 %	1.913 %	472,574.008 %
Concentration RSD	18.6 %	0.2 %	82.8 %	85.2 %	8.1 %	33.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0009 ppm	-0.0011 ppm	-0.0030 ppm	190.4191 ppm	0.0449 ppm	0.0025 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	-0.0015 ppm	-0.0028 ppm	190.5966 ppm	0.0641 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	-0.0010 ppm	-0.0031 ppm	190.1750 ppm	0.0550 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	-0.0012 ppm	-0.0010 ppm	-0.0033 ppm	190.4858 ppm	0.0155 ppm	0.0026 ppm
Recovery Percentage 1	-0.442 %	-4.392 %	-11.451 %	-30.467 %	380,838.241 %	1.795 %	25.325 %
Concentration RSD	537.6 %	29.6 %	25.6 %	8.4 %	0.1 %	57.6 %	67.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	478.9781 ppm	0.0021 ppm	-0.0010 ppm	0.0181 ppm	-0.0007 ppm	-0.0020 ppm	0.0008 ppm
Concentration per Run 1	483.1031 ppm	0.0022 ppm	-0.0015 ppm	0.0222 ppm	-0.0003 ppm	-0.0013 ppm	-0.0007 ppm
Concentration per Run 2	478.5453 ppm	0.0022 ppm	-0.0013 ppm	0.0182 ppm	-0.0006 ppm	-0.0039 ppm	0.0007 ppm
Concentration per Run 3	475.2859 ppm	0.0018 ppm	-0.0002 ppm	0.0139 ppm	-0.0012 ppm	-0.0007 ppm	0.0024 ppm
Recovery Percentage 1	478,978.127 %	20.765 %	-1.954 %	0.905 %	-2.850 %	-19.567 %	1.636 %
Concentration RSD	0.8 %	12.4 %	73.1 %	22.9 %	64.1 %	85.3 %	187.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0205 ppm	-0.0012 ppm	0.0005 ppm	-0.0003 ppm	0.0030 ppm	0.0007 ppm
Concentration per Run 1	-0.0008 ppm	0.0190 ppm	-0.0021 ppm	0.0005 ppm	-0.0002 ppm	0.0053 ppm	0.0005 ppm
Concentration per Run 2	-0.0057 ppm	0.0237 ppm	-0.0012 ppm	0.0005 ppm	-0.0005 ppm	0.0017 ppm	0.0010 ppm
Concentration per Run 3	-0.0004 ppm	0.0187 ppm	-0.0003 ppm	0.0006 ppm	-0.0003 ppm	0.0022 ppm	0.0007 ppm
Recovery Percentage 1	-22.931 %	4.094 %	-2.386 %	5.343 %	-3.355 %	15.245 %	7.086 %
Concentration RSD	127.5 %	13.9 %	77.7 %	8.4 %	39.3 %	64.8 %	34.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	90.3955 %	94.9803 %	81.2159 %	84.1854 %	92.4872 %	84.3374 %
Concentration per Run 1	0.0004 ppm	89.7226 %	94.8279 %	81.2178 %	83.1978 %	92.2611 %	84.2502 %
Concentration per Run 2	0.0004 ppm	90.3046 %	95.3472 %	81.1478 %	84.1868 %	92.9298 %	84.4777 %
Concentration per Run 3	0.0006 ppm	91.1591 %	94.7659 %	81.2821 %	85.1715 %	92.2707 %	84.2843 %
Recovery Percentage 1	8.993 %						
Concentration RSD	30.1 %	0.8 %	0.3 %	0.1 %	1.2 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: SIC Multi
Analysis started at: 6/19/2024 6:56:07 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0014 ppm	0.0154 ppm	-0.0003 ppm	0.0036 ppm	0.0000 ppm	-0.0009 ppm	0.0079 ppm
Concentration per Run 1	-0.0016 ppm	0.0234 ppm	-0.0009 ppm	0.0033 ppm	0.0000 ppm	-0.0009 ppm	0.0092 ppm
Concentration per Run 2	-0.0013 ppm	0.0122 ppm	0.0000 ppm	0.0039 ppm	0.0002 ppm	-0.0010 ppm	0.0091 ppm
Concentration per Run 3	-0.0012 ppm	0.0105 ppm	0.0000 ppm	0.0036 ppm	0.0000 ppm	-0.0008 ppm	0.0055 ppm
Recovery Percentage 1	-19.444 %	15.370 %	-10.153 %	11.925 %	0.476 %	-22.375 %	7.948 %
Concentration RSD	16.6 %	45.6 %	178.9 %	7.9 %	248.7 %	10.2 %	26.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	19.6114 ppm	-0.0012 ppm	0.0159 ppm	0.0018 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	19.6957 ppm	-0.0013 ppm	0.0133 ppm	0.0167 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0009 ppm	19.6254 ppm	-0.0013 ppm	0.0207 ppm	-0.0259 ppm	-0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	19.5133 ppm	-0.0011 ppm	0.0138 ppm	0.0147 ppm	0.0019 ppm
Recovery Percentage 1	1.411 %	-1.299 %	196,114.439 %	-12.166 %	31.888 %	0.074 %	5.827 %
Concentration RSD	58.6 %	308.6 %	0.5 %	9.7 %	26.1 %	1,299.1 %	255.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0031 ppm	20.1994 ppm	0.0002 ppm	-0.0020 ppm	0.0004 ppm	-0.0034 ppm	-0.0104 ppm
Concentration per Run 1	-0.0020 ppm	20.1713 ppm	0.0000 ppm	0.0006 ppm	0.0006 ppm	-0.0035 ppm	-0.0113 ppm
Concentration per Run 2	-0.0043 ppm	20.2144 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	-0.0024 ppm	-0.0137 ppm
Concentration per Run 3	-0.0029 ppm	20.2125 ppm	0.0005 ppm	-0.0064 ppm	-0.0001 ppm	-0.0043 ppm	-0.0063 ppm
Recovery Percentage 1	-3.076 %	201,994.107 %	0.384 %	-0.100 %	1.529 %	-34.076 %	-20.871 %
Concentration RSD	36.4 %	0.1 %	142.4 %	192.3 %	109.4 %	28.5 %	36.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0047 ppm	0.0106 ppm	-0.0061 ppm	0.0004 ppm	19.2982 ppm	0.0111 ppm	9.9595 ppm
Concentration per Run 1	-0.0028 ppm	-0.0113 ppm	-0.0066 ppm	0.0004 ppm	19.3811 ppm	0.0128 ppm	10.0202 ppm
Concentration per Run 2	-0.0046 ppm	0.0088 ppm	-0.0049 ppm	0.0005 ppm	19.3071 ppm	0.0112 ppm	9.9638 ppm
Concentration per Run 3	-0.0069 ppm	0.0342 ppm	-0.0069 ppm	0.0004 ppm	19.2065 ppm	0.0094 ppm	9.8944 ppm
Recovery Percentage 1	-47.465 %	2.117 %	-12.254 %	4.230 %	192,982.426 %	55.436 %	99,594.539 %
Concentration RSD	43.8 %	215.4 %	17.3 %	10.9 %	0.5 %	15.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	101.7288 %	104.1885 %	82.7058 %	95.4489 %	100.3700 %	97.7086 %
Concentration per Run 1	0.0004 ppm	101.7642 %	104.6604 %	83.0103 %	95.4315 %	100.7553 %	98.2616 %
Concentration per Run 2	0.0004 ppm	101.2667 %	104.1730 %	82.8623 %	94.9788 %	100.2130 %	97.5772 %
Concentration per Run 3	0.0006 ppm	102.1554 %	103.7322 %	82.2448 %	95.9366 %	100.1416 %	97.2869 %
Recovery Percentage 1	9.204 %						
Concentration RSD	22.3 %	0.4 %	0.4 %	0.5 %	0.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR Check
Analysis started at: 6/19/2024 7:00:12 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	0.0978 ppm	22.3934 ppm	19.7958 ppm	20.1533 ppm	5.1173 ppm	0.0183 ppm
Concentration per Run 1	0.0019 ppm	0.1062 ppm	22.3584 ppm	19.9065 ppm	20.1634 ppm	5.1087 ppm	0.0186 ppm
Concentration per Run 2	0.0015 ppm	0.0956 ppm	22.3353 ppm	19.8233 ppm	20.1797 ppm	5.1245 ppm	0.0190 ppm
Concentration per Run 3	0.0013 ppm	0.0915 ppm	22.4864 ppm	19.6577 ppm	20.1167 ppm	5.1188 ppm	0.0172 ppm
Recovery Percentage 1			111.967 %	98.979 %	100.766 %		0.000 %
Concentration RSD	18.7 %	7.8 %	0.4 %	0.6 %	0.2 %	0.2 %	5.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	5.0188 ppm	5.0964 ppm	0.0019 ppm	20.3262 ppm	0.0392 ppm	533.7493 ppm	19.3120 ppm
Concentration per Run 1	5.0499 ppm	5.1168 ppm	0.0023 ppm	20.4487 ppm	0.0383 ppm	532.4521 ppm	19.1879 ppm
Concentration per Run 2	5.0243 ppm	5.1019 ppm	0.0019 ppm	20.3032 ppm	0.0382 ppm	531.6275 ppm	19.2671 ppm
Concentration per Run 3	4.9822 ppm	5.0705 ppm	0.0015 ppm	20.2267 ppm	0.0412 ppm	537.1682 ppm	19.4810 ppm
Recovery Percentage 1	100.376 %	101.928 %		101.631 %	0.000 %	106.750 %	96.560 %
Concentration RSD	0.7 %	0.5 %	22.5 %	0.6 %	4.3 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0042 ppm	0.0015 ppm	5.1365 ppm	423.9559 ppm	10.0730 ppm	52.5749 ppm	5.1821 ppm
Concentration per Run 1	-0.0036 ppm	0.0015 ppm	5.1098 ppm	422.5156 ppm	10.1175 ppm	52.6910 ppm	5.2020 ppm
Concentration per Run 2	-0.0042 ppm	0.0017 ppm	5.1565 ppm	425.7556 ppm	10.0863 ppm	52.4601 ppm	5.1802 ppm
Concentration per Run 3	-0.0049 ppm	0.0013 ppm	5.1431 ppm	423.5964 ppm	10.0151 ppm	52.5736 ppm	5.1641 ppm
Recovery Percentage 1		0.000 %	102.730 %	84.791 %	100.730 %	105.150 %	103.642 %
Concentration RSD	15.8 %	13.3 %	0.5 %	0.4 %	0.5 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.3832 ppm	22.5106 ppm	7.8721 ppm	4.9361 ppm	0.0117 ppm	5.1147 ppm	-0.0008 ppm
Concentration per Run 1	5.3959 ppm	22.6199 ppm	7.9254 ppm	4.9316 ppm	0.0130 ppm	5.1002 ppm	-0.0005 ppm
Concentration per Run 2	5.3444 ppm	22.5249 ppm	7.8719 ppm	4.9461 ppm	0.0115 ppm	5.0939 ppm	-0.0011 ppm
Concentration per Run 3	5.4091 ppm	22.3871 ppm	7.8190 ppm	4.9307 ppm	0.0106 ppm	5.1499 ppm	-0.0009 ppm
Recovery Percentage 1	107.663 %	112.553 %	78.721 %	98.723 %	0.000 %	102.293 %	0.000 %
Concentration RSD	0.6 %	0.5 %	0.7 %	0.2 %	10.1 %	0.6 %	31.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.5894 ppm	92.4359 %	96.1713 %	86.7293 %	85.7241 %	91.6482 %	83.5731 %
Concentration per Run 1	19.7094 ppm	92.5046 %	96.3623 %	86.6160 %	85.4530 %	91.6805 %	83.3299 %
Concentration per Run 2	19.6028 ppm	92.1137 %	95.8741 %	86.7364 %	85.5341 %	91.5854 %	83.6758 %
Concentration per Run 3	19.4561 ppm	92.6895 %	96.2776 %	86.8355 %	86.1853 %	91.6786 %	83.7135 %
Recovery Percentage 1	97.947 %						
Concentration RSD	0.6 %	0.3 %	0.3 %	0.1 %	0.5 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LLOQ 0.01
Analysis started at: 6/19/2024 7:26:01 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0088 ppm	0.0084 ppm	0.0099 ppm	0.0081 ppm	0.0095 ppm	0.0095 ppm	0.0220 ppm
Concentration per Run 1	0.0086 ppm	0.0075 ppm	0.0117 ppm	0.0093 ppm	0.0094 ppm	0.0095 ppm	0.0231 ppm
Concentration per Run 2	0.0089 ppm	0.0090 ppm	0.0082 ppm	0.0075 ppm	0.0096 ppm	0.0095 ppm	0.0228 ppm
Concentration per Run 3	0.0088 ppm	0.0086 ppm	0.0099 ppm	0.0075 ppm	0.0096 ppm	0.0095 ppm	0.0201 ppm
Recovery Percentage 1	0.000 %	0.000 %	99.327 %	80.810 %	95.225 %	0.000 %	0.000 %
Concentration RSD	1.4 %	9.3 %	17.5 %	13.0 %	1.6 %	0.3 %	7.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0088 ppm	0.0087 ppm	0.0089 ppm	0.0082 ppm	0.0126 ppm	0.1571 ppm	**0.0125 ppm**
Concentration per Run 1	0.0087 ppm	0.0087 ppm	0.0089 ppm	0.0082 ppm	0.0132 ppm	0.1799 ppm	0.0141 ppm
Concentration per Run 2	0.0089 ppm	0.0086 ppm	0.0089 ppm	0.0084 ppm	0.0133 ppm	0.1528 ppm	0.0121 ppm
Concentration per Run 3	0.0089 ppm	0.0089 ppm	0.0088 ppm	0.0079 ppm	0.0113 ppm	0.1386 ppm	0.0114 ppm
Recovery Percentage 1	0.000 %	87.440 %	88.674 %	81.884 %	0.000 %	0.000 %	125.339 %
Concentration RSD	1.4 %	1.6 %	0.7 %	2.9 %	8.6 %	13.3 %	**11.3 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0101 ppm	0.0101 ppm	0.0092 ppm	0.2485 ppm	0.0086 ppm	0.0083 ppm	0.0137 ppm
Concentration per Run 1	0.0101 ppm	0.0100 ppm	0.0089 ppm	0.2525 ppm	0.0086 ppm	0.0085 ppm	0.0102 ppm
Concentration per Run 2	0.0102 ppm	0.0101 ppm	0.0092 ppm	0.2421 ppm	0.0083 ppm	0.0090 ppm	0.0139 ppm
Concentration per Run 3	0.0101 ppm	0.0102 ppm	0.0095 ppm	0.2508 ppm	0.0088 ppm	0.0073 ppm	0.0169 ppm
Recovery Percentage 1	0.000 %	100.917 %	92.099 %	0.000 %	85.647 %	82.715 %	0.000 %
Concentration RSD	0.5 %	0.6 %	3.4 %	2.2 %	3.1 %	10.9 %	24.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0083 ppm	0.0898 ppm	0.0088 ppm	0.0097 ppm	0.0089 ppm	0.0096 ppm	0.0085 ppm
Concentration per Run 1	0.0096 ppm	0.0898 ppm	0.0084 ppm	0.0096 ppm	0.0090 ppm	0.0095 ppm	0.0080 ppm
Concentration per Run 2	0.0072 ppm	0.0905 ppm	0.0096 ppm	0.0097 ppm	0.0090 ppm	0.0097 ppm	0.0085 ppm
Concentration per Run 3	0.0082 ppm	0.0891 ppm	0.0082 ppm	0.0097 ppm	0.0087 ppm	0.0095 ppm	0.0090 ppm
Recovery Percentage 1	83.339 %	0.000 %	87.560 %	96.680 %	88.766 %	95.881 %	85.198 %
Concentration RSD	14.6 %	0.8 %	8.6 %	0.5 %	2.0 %	1.0 %	5.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0104 ppm	119.5781 %	108.1174 %	112.2554 %	101.3279 %	99.9541 %	101.1204 %
Concentration per Run 1	0.0104 ppm	121.2578 %	108.5288 %	113.2995 %	101.0719 %	99.6961 %	101.2733 %
Concentration per Run 2	0.0101 ppm	119.5032 %	107.8085 %	111.9890 %	101.3448 %	100.0773 %	100.7338 %
Concentration per Run 3	0.0107 ppm	117.9734 %	108.0150 %	111.4776 %	101.5669 %	100.0889 %	101.3540 %
Recovery Percentage 1	103.786 %						
Concentration RSD	3.0 %	1.4 %	0.3 %	0.8 %	0.2 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LLOQ 0.05
Analysis started at: 6/19/2024 7:30:17 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0528 ppm	0.0549 ppm	0.0489 ppm	0.0522 ppm	0.0517 ppm	0.0513 ppm	0.0633 ppm
Concentration per Run 1	0.0537 ppm	0.0660 ppm	0.0495 ppm	0.0554 ppm	0.0518 ppm	0.0514 ppm	0.0635 ppm
Concentration per Run 2	0.0524 ppm	0.0493 ppm	0.0490 ppm	0.0506 ppm	0.0514 ppm	0.0511 ppm	0.0632 ppm
Concentration per Run 3	0.0522 ppm	0.0492 ppm	0.0482 ppm	0.0507 ppm	0.0519 ppm	0.0514 ppm	0.0631 ppm
Recovery Percentage 1	0.000 %	109.719 %	0.000 %	0.000 %	0.000 %	0.000 %	126.519 %
Concentration RSD	1.6 %	17.6 %	1.3 %	5.3 %	0.6 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0528 ppm	0.0538 ppm	0.0520 ppm	0.0517 ppm	0.0545 ppm	0.5934 ppm	0.0566 ppm
Concentration per Run 1	0.0541 ppm	0.0554 ppm	0.0531 ppm	0.0528 ppm	0.0541 ppm	0.6128 ppm	0.0586 ppm
Concentration per Run 2	0.0524 ppm	0.0532 ppm	0.0514 ppm	0.0516 ppm	0.0531 ppm	0.5917 ppm	0.0550 ppm
Concentration per Run 3	0.0519 ppm	0.0529 ppm	0.0513 ppm	0.0507 ppm	0.0561 ppm	0.5758 ppm	0.0561 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	108.905 %	23.737 %	0.000 %
Concentration RSD	2.2 %	2.5 %	2.0 %	2.1 %	2.8 %	3.1 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0524 ppm	0.0515 ppm	0.0521 ppm	1.1053 ppm	0.0543 ppm	0.0510 ppm	0.0507 ppm
Concentration per Run 1	0.0535 ppm	0.0519 ppm	0.0530 ppm	1.1056 ppm	0.0549 ppm	0.0514 ppm	0.0524 ppm
Concentration per Run 2	0.0517 ppm	0.0513 ppm	0.0514 ppm	1.1065 ppm	0.0547 ppm	0.0514 ppm	0.0502 ppm
Concentration per Run 3	0.0520 ppm	0.0515 ppm	0.0518 ppm	1.1037 ppm	0.0533 ppm	0.0502 ppm	0.0495 ppm
Recovery Percentage 1	104.764 %	0.000 %	0.000 %	110.526 %	0.000 %	0.000 %	101.366 %
Concentration RSD	1.8 %	0.6 %	1.6 %	0.1 %	1.6 %	1.3 %	3.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0467 ppm	0.5381 ppm	0.0540 ppm	0.0513 ppm	0.0517 ppm	0.0495 ppm	0.0510 ppm
Concentration per Run 1	0.0473 ppm	0.5480 ppm	0.0562 ppm	0.0513 ppm	0.0528 ppm	0.0502 ppm	0.0523 ppm
Concentration per Run 2	0.0461 ppm	0.5347 ppm	0.0533 ppm	0.0511 ppm	0.0512 ppm	0.0492 ppm	0.0503 ppm
Concentration per Run 3	0.0466 ppm	0.5316 ppm	0.0527 ppm	0.0514 ppm	0.0512 ppm	0.0490 ppm	0.0505 ppm
Recovery Percentage 1	0.000 %	107.625 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.2 %	1.6 %	3.5 %	0.2 %	1.8 %	1.3 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0549 ppm	96.7075 %	101.7427 %	98.5897 %	95.4755 %	100.2294 %	97.6115 %
Concentration per Run 1	0.0559 ppm	95.0007 %	101.8658 %	98.7954 %	94.4941 %	100.4214 %	97.9945 %
Concentration per Run 2	0.0551 ppm	96.6840 %	101.9110 %	98.8845 %	95.2933 %	100.4293 %	97.7838 %
Concentration per Run 3	0.0537 ppm	98.4376 %	101.4512 %	98.0893 %	96.6392 %	99.8375 %	97.0563 %
Recovery Percentage 1	109.793 %						
Concentration RSD	2.0 %	1.8 %	0.2 %	0.4 %	1.1 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 20 As
Analysis started at: 6/19/2024 7:34:13 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0008 ppm	**20.2769 ppm**	-0.0036 ppm	-0.0001 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 1	0.0007 ppm	-0.0055 ppm	20.2639 ppm	-0.0033 ppm	-0.0001 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 2	0.0005 ppm	0.0042 ppm	20.4543 ppm	-0.0053 ppm	-0.0003 ppm	0.0000 ppm	0.0169 ppm
Concentration per Run 3	0.0001 ppm	0.0036 ppm	20.1126 ppm	-0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0138 ppm
Concentration RSD	71.5 %	708.4 %	0.8 %	44.1 %	89.1 %	533.9 %	23.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm	0.0114 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	-0.0004 ppm	0.0006 ppm	0.0021 ppm	-0.0063 ppm	0.0017 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0027 ppm	0.0277 ppm	-0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0005 ppm	0.0005 ppm	0.0011 ppm	0.0128 ppm	0.0010 ppm
Concentration RSD	65.1 %	119.7 %	92.2 %	48.0 %	39.7 %	149.4 %	426.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	0.0002 ppm	-0.0002 ppm	0.0216 ppm	0.0006 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0027 ppm	0.0001 ppm	-0.0003 ppm	0.0231 ppm	0.0012 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 2	0.0008 ppm	0.0004 ppm	-0.0008 ppm	0.0234 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0016 ppm	0.0002 ppm	0.0005 ppm	0.0183 ppm	0.0001 ppm	-0.0007 ppm	0.0012 ppm
Concentration RSD	56.5 %	81.8 %	321.8 %	13.2 %	92.0 %	233.7 %	123.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.0039 ppm	-0.0012 ppm	0.0001 ppm	-0.0001 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 2	-0.0017 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0041 ppm	0.0032 ppm	-0.0010 ppm	0.0000 ppm	-0.0003 ppm	-0.0012 ppm	0.0000 ppm
Concentration RSD	51.0 %	79.2 %	155.9 %	106.7 %	47.0 %	484.6 %	109.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	96.8447 %	102.2510 %	98.4328 %	96.4278 %	101.3505 %	98.4326 %
Concentration per Run 1	0.0021 ppm	95.2572 %	102.0151 %	98.2612 %	95.5383 %	101.4630 %	98.4693 %
Concentration per Run 2	0.0026 ppm	97.2606 %	102.1099 %	98.6573 %	96.8114 %	101.0506 %	98.3833 %
Concentration per Run 3	0.0021 ppm	98.0164 %	102.6280 %	98.3798 %	96.9338 %	101.5378 %	98.4453 %
Concentration RSD	13.2 %	1.5 %	0.3 %	0.2 %	0.8 %	0.3 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 20 Si
Analysis started at: 6/19/2024 7:38:08 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0093 ppm	0.0009 ppm	0.0040 ppm	-0.0002 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 1	0.0001 ppm	0.0095 ppm	0.0010 ppm	0.0044 ppm	-0.0002 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 2	0.0001 ppm	0.0038 ppm	0.0010 ppm	0.0039 ppm	-0.0001 ppm	0.0000 ppm	0.0079 ppm
Concentration per Run 3	0.0007 ppm	0.0145 ppm	0.0008 ppm	0.0038 ppm	-0.0004 ppm	0.0000 ppm	0.0110 ppm
Concentration RSD	108.4 %	57.8 %	13.4 %	8.8 %	69.2 %	141.7 %	18.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm	0.0014 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0025 ppm	0.0034 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0038 ppm	0.0033 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0002 ppm	0.0024 ppm	-0.0024 ppm	0.0002 ppm
Concentration RSD	75.4 %	676.6 %	2,749.3 %	812.9 %	27.2 %	234.7 %	147.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0002 ppm	-0.0003 ppm	0.0114 ppm	-0.0005 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 1	0.0005 ppm	0.0003 ppm	-0.0006 ppm	0.0206 ppm	-0.0010 ppm	-0.0011 ppm	0.0036 ppm
Concentration per Run 2	0.0040 ppm	0.0001 ppm	0.0001 ppm	0.0100 ppm	-0.0004 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 3	-0.0006 ppm	0.0004 ppm	-0.0004 ppm	0.0037 ppm	0.0001 ppm	-0.0007 ppm	-0.0004 ppm
Concentration RSD	180.7 %	62.4 %	112.8 %	74.7 %	111.8 %	175.6 %	165.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	20.4502 ppm	-0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	20.6423 ppm	-0.0004 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	20.3693 ppm	-0.0013 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 3	-0.0033 ppm	20.3389 ppm	-0.0013 ppm	0.0000 ppm	0.0004 ppm	-0.0009 ppm	0.0002 ppm
Concentration RSD	192.1 %	0.8 %	51.2 %	141.1 %	34.7 %	466.1 %	19.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	102.1172 %	104.1325 %	101.4557 %	95.9591 %	100.7577 %	98.5498 %
Concentration per Run 1	0.0016 ppm	101.3898 %	104.2623 %	101.4852 %	94.7968 %	100.7066 %	98.4617 %
Concentration per Run 2	0.0017 ppm	102.1396 %	103.8660 %	101.6517 %	96.0607 %	100.3862 %	98.5971 %
Concentration per Run 3	0.0016 ppm	102.8223 %	104.2691 %	101.2303 %	97.0198 %	101.1803 %	98.5906 %
Concentration RSD	2.5 %	0.7 %	0.2 %	0.2 %	1.2 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 500 Na
Analysis started at: 6/19/2024 7:42:05 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0157 ppm
Concentration per Run 1	0.0002 ppm	-0.0011 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0174 ppm
Concentration per Run 2	0.0001 ppm	0.0024 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 3	-0.0005 ppm	-0.0003 ppm	-0.0010 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0146 ppm
Concentration RSD	528.7 %	518.3 %	177.4 %	51.6 %	791.7 %	196.5 %	9.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0039 ppm	0.1635 ppm	-0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0006 ppm	0.0005 ppm	0.0004 ppm	0.0029 ppm	0.1617 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0007 ppm	0.0048 ppm	0.1607 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0005 ppm	0.0039 ppm	0.1680 ppm	-0.0008 ppm
Concentration RSD	22,069.7 %	811.9 %	100.9 %	25.2 %	24.3 %	2.4 %	44.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0003 ppm	-0.0006 ppm	471.4424 ppm	-0.0002 ppm	-0.0009 ppm	-0.0013 ppm
Concentration per Run 1	0.0023 ppm	0.0004 ppm	-0.0008 ppm	473.4384 ppm	-0.0007 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0018 ppm	0.0002 ppm	-0.0004 ppm	472.5195 ppm	0.0001 ppm	-0.0007 ppm	-0.0066 ppm
Concentration per Run 3	-0.0015 ppm	0.0004 ppm	-0.0007 ppm	468.3694 ppm	-0.0001 ppm	-0.0020 ppm	0.0025 ppm
Concentration RSD	234.6 %	28.6 %	28.7 %	0.6 %	190.9 %	131.9 %	360.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0045 ppm	-0.0012 ppm	0.0000 ppm	-0.0003 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0053 ppm	-0.0015 ppm	0.0000 ppm	-0.0007 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 2	-0.0045 ppm	0.0047 ppm	-0.0010 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0034 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm	-0.0001 ppm
Concentration RSD	184.3 %	22.5 %	27.6 %	69.8 %	92.8 %	26.0 %	259.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	91.8336 %	98.3647 %	92.0742 %	90.1584 %	96.3139 %	92.9322 %
Concentration per Run 1	0.0016 ppm	89.7349 %	98.1742 %	91.2726 %	88.7049 %	96.6483 %	92.3339 %
Concentration per Run 2	0.0015 ppm	92.5680 %	98.6195 %	92.6000 %	90.6588 %	96.2777 %	93.4343 %
Concentration per Run 3	0.0014 ppm	93.1980 %	98.3003 %	92.3501 %	91.1115 %	96.0157 %	93.0284 %
Concentration RSD	4.4 %	2.0 %	0.2 %	0.8 %	1.4 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 500 Fe
Analysis started at: 6/19/2024 7:46:01 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0480 ppm	-0.0005 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0150 ppm
Concentration per Run 1	-0.0020 ppm	0.0455 ppm	-0.0003 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0161 ppm
Concentration per Run 2	-0.0021 ppm	0.0543 ppm	-0.0030 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0140 ppm
Concentration per Run 3	-0.0017 ppm	0.0443 ppm	0.0018 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0150 ppm
Concentration RSD	10.2 %	11.4 %	498.3 %	53.9 %	62.2 %	246.0 %	7.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0017 ppm	-0.0032 ppm	-0.0077 ppm	466.1864 ppm	-0.0500 ppm	0.0008 ppm
Concentration per Run 1	0.0004 ppm	-0.0014 ppm	-0.0037 ppm	-0.0078 ppm	464.7328 ppm	-0.0463 ppm	0.0005 ppm
Concentration per Run 2	0.0005 ppm	-0.0019 ppm	-0.0034 ppm	-0.0073 ppm	466.8167 ppm	-0.0498 ppm	0.0016 ppm
Concentration per Run 3	0.0004 ppm	-0.0018 ppm	-0.0026 ppm	-0.0080 ppm	467.0098 ppm	-0.0538 ppm	0.0003 ppm
Concentration RSD	9.9 %	15.4 %	16.9 %	4.2 %	0.3 %	7.5 %	87.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0029 ppm	0.0006 ppm	-0.0028 ppm	0.1222 ppm	-0.0013 ppm	0.0003 ppm	0.0103 ppm
Concentration per Run 1	-0.0049 ppm	0.0003 ppm	-0.0028 ppm	0.1267 ppm	-0.0013 ppm	0.0014 ppm	0.0111 ppm
Concentration per Run 2	-0.0009 ppm	0.0009 ppm	-0.0027 ppm	0.1165 ppm	-0.0016 ppm	0.0002 ppm	0.0114 ppm
Concentration per Run 3	-0.0028 ppm	0.0007 ppm	-0.0029 ppm	0.1233 ppm	-0.0011 ppm	-0.0005 ppm	0.0084 ppm
Concentration RSD	69.0 %	48.8 %	3.2 %	4.2 %	20.0 %	273.7 %	16.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0017 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm	0.0024 ppm
Concentration per Run 1	-0.0007 ppm	0.0011 ppm	-0.0005 ppm	0.0004 ppm	0.0000 ppm	-0.0007 ppm	0.0022 ppm
Concentration per Run 2	-0.0023 ppm	0.0011 ppm	0.0006 ppm	0.0004 ppm	-0.0003 ppm	0.0014 ppm	0.0023 ppm
Concentration per Run 3	-0.0024 ppm	0.0028 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0014 ppm	0.0025 ppm
Concentration RSD	54.8 %	57.7 %	2,095.0 %	10.6 %	140.5 %	676.1 %	6.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	99.7518 %	101.6786 %	93.4660 %	92.9311 %	98.4233 %	95.9054 %
Concentration per Run 1	0.0008 ppm	99.0361 %	102.1724 %	93.7428 %	91.7326 %	98.8921 %	96.2726 %
Concentration per Run 2	0.0009 ppm	99.9002 %	101.0730 %	92.9122 %	93.2237 %	97.5860 %	95.4611 %
Concentration per Run 3	0.0008 ppm	100.3191 %	101.7905 %	93.7429 %	93.8370 %	98.7919 %	95.9825 %
Concentration RSD	7.7 %	0.7 %	0.5 %	0.5 %	1.2 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 1000 Ca
Analysis started at: 6/19/2024 7:49:58 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0109 ppm	-0.0011 ppm	0.0021 ppm	0.0008 ppm	0.0000 ppm	960.7076 ppm
Concentration per Run 1	-0.0010 ppm	-0.0156 ppm	-0.0027 ppm	0.0030 ppm	0.0007 ppm	0.0000 ppm	959.8109 ppm
Concentration per Run 2	-0.0004 ppm	-0.0032 ppm	-0.0010 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	961.4737 ppm
Concentration per Run 3	-0.0007 ppm	-0.0137 ppm	0.0004 ppm	0.0028 ppm	0.0010 ppm	0.0000 ppm	960.8381 ppm
Concentration RSD	44.2 %	61.6 %	139.6 %	71.5 %	24.7 %	52.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0049 ppm	0.0005 ppm	0.0001 ppm	0.0006 ppm	0.0281 ppm	0.0287 ppm	0.0001 ppm
Concentration per Run 1	0.0051 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0288 ppm	0.0223 ppm	0.0016 ppm
Concentration per Run 2	0.0049 ppm	0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0271 ppm	0.0472 ppm	0.0001 ppm
Concentration per Run 3	0.0048 ppm	0.0009 ppm	0.0001 ppm	0.0009 ppm	0.0283 ppm	0.0166 ppm	-0.0015 ppm
Concentration RSD	3.7 %	63.5 %	288.3 %	29.0 %	3.1 %	56.7 %	2,404.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0137 ppm	0.0002 ppm	-0.0005 ppm	0.0865 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0151 ppm	0.0004 ppm	-0.0002 ppm	0.0929 ppm	0.0020 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 2	0.0121 ppm	-0.0001 ppm	-0.0008 ppm	0.0856 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	0.0139 ppm	0.0003 ppm	-0.0006 ppm	0.0809 ppm	0.0008 ppm	0.0006 ppm	0.0006 ppm
Concentration RSD	10.9 %	139.4 %	53.0 %	7.0 %	111.4 %	239.5 %	23,783.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0110 ppm	0.0105 ppm	0.0001 ppm	-0.0009 ppm	-0.0004 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	-0.0093 ppm	0.0104 ppm	-0.0007 ppm	-0.0008 ppm	-0.0005 ppm	0.0022 ppm	0.0004 ppm
Concentration per Run 2	-0.0130 ppm	0.0097 ppm	0.0000 ppm	-0.0009 ppm	-0.0004 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 3	-0.0107 ppm	0.0114 ppm	0.0010 ppm	-0.0010 ppm	-0.0004 ppm	-0.0014 ppm	0.0006 ppm
Concentration RSD	17.4 %	8.3 %	1,032.2 %	10.6 %	21.8 %	546.2 %	19.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	87.7721 %	94.6474 %	84.3566 %	87.7804 %	95.0862 %	88.3183 %
Concentration per Run 1	0.0023 ppm	86.2386 %	94.8497 %	83.9667 %	86.6969 %	95.5722 %	88.1222 %
Concentration per Run 2	0.0023 ppm	87.9148 %	94.3864 %	84.8447 %	87.8882 %	94.7574 %	88.6385 %
Concentration per Run 3	0.0023 ppm	89.1628 %	94.7060 %	84.2585 %	88.7561 %	94.9289 %	88.1941 %
Concentration RSD	1.5 %	1.7 %	0.3 %	0.5 %	1.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 8:06:29 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5005 ppm	0.5032 ppm	0.4834 ppm	0.4963 ppm	0.5039 ppm	0.5081 ppm	0.4895 ppm
Concentration per Run 1	0.5057 ppm	0.5086 ppm	0.4838 ppm	0.4994 ppm	0.5068 ppm	0.5079 ppm	0.4884 ppm
Concentration per Run 2	0.4990 ppm	0.4928 ppm	0.4839 ppm	0.4978 ppm	0.5038 ppm	0.5070 ppm	0.4862 ppm
Concentration per Run 3	0.4967 ppm	0.5082 ppm	0.4825 ppm	0.4916 ppm	0.5010 ppm	0.5095 ppm	0.4939 ppm
Recovery Percentage 1	100.098 %	100.643 %	96.680 %	99.260 %	100.772 %	101.627 %	97.897 %
Concentration RSD	0.9 %	1.8 %	0.2 %	0.8 %	0.6 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5047 ppm	0.5072 ppm	0.4924 ppm	0.4895 ppm	0.5039 ppm	5.3652 ppm	0.5098 ppm
Concentration per Run 1	0.5093 ppm	0.5121 ppm	0.4963 ppm	0.4931 ppm	0.5031 ppm	5.3479 ppm	0.5060 ppm
Concentration per Run 2	0.5041 ppm	0.5057 ppm	0.4921 ppm	0.4907 ppm	0.5053 ppm	5.4107 ppm	0.5136 ppm
Concentration per Run 3	0.5008 ppm	0.5036 ppm	0.4888 ppm	0.4846 ppm	0.5032 ppm	5.3371 ppm	0.5097 ppm
Recovery Percentage 1	100.946 %	101.430 %	98.479 %	97.890 %	100.778 %	107.305 %	101.955 %
Concentration RSD	0.8 %	0.9 %	0.8 %	0.9 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4922 ppm	0.4974 ppm	0.4966 ppm	10.2577 ppm	0.5054 ppm	0.4935 ppm	0.4928 ppm
Concentration per Run 1	0.4946 ppm	0.4971 ppm	0.4959 ppm	10.2664 ppm	0.5093 ppm	0.4933 ppm	0.4968 ppm
Concentration per Run 2	0.4941 ppm	0.4970 ppm	0.4988 ppm	10.2191 ppm	0.5076 ppm	0.4934 ppm	0.4946 ppm
Concentration per Run 3	0.4878 ppm	0.4981 ppm	0.4951 ppm	10.2876 ppm	0.4993 ppm	0.4938 ppm	0.4870 ppm
Recovery Percentage 1	98.435 %	99.484 %	99.312 %	102.577 %	101.079 %	98.701 %	98.563 %
Concentration RSD	0.8 %	0.1 %	0.4 %	0.3 %	1.1 %	0.0 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4882 ppm	5.1898 ppm	0.5149 ppm	0.4969 ppm	0.5000 ppm	0.4885 ppm	0.4935 ppm
Concentration per Run 1	0.4863 ppm	5.2269 ppm	0.5179 ppm	0.4977 ppm	0.5045 ppm	0.4846 ppm	0.4973 ppm
Concentration per Run 2	0.4892 ppm	5.1904 ppm	0.5175 ppm	0.4976 ppm	0.5000 ppm	0.4913 ppm	0.4933 ppm
Concentration per Run 3	0.4892 ppm	5.1522 ppm	0.5094 ppm	0.4953 ppm	0.4956 ppm	0.4895 ppm	0.4898 ppm
Recovery Percentage 1	97.648 %	98.854 %	102.987 %	99.374 %	100.008 %	97.695 %	98.697 %
Concentration RSD	0.3 %	0.7 %	0.9 %	0.3 %	0.9 %	0.7 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5051 ppm	100.5185 %	103.1150 %	99.8743 %	95.2795 %	99.6769 %	96.5149 %
Concentration per Run 1	0.5081 ppm	100.1286 %	102.7566 %	99.8957 %	94.9747 %	99.0933 %	96.5140 %
Concentration per Run 2	0.5067 ppm	100.1647 %	103.0474 %	99.8166 %	95.0184 %	99.6717 %	96.4136 %
Concentration per Run 3	0.5006 ppm	101.2622 %	103.5409 %	99.9106 %	95.8455 %	100.2658 %	96.6170 %
Recovery Percentage 1	101.028 %						
Concentration RSD	0.8 %	0.6 %	0.4 %	0.1 %	0.5 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 8:10:31 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0042 ppm	-0.0009 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 1	-0.0007 ppm	-0.0060 ppm	-0.0010 ppm	0.0032 ppm	-0.0001 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 2	0.0004 ppm	0.0098 ppm	-0.0021 ppm	-0.0013 ppm	-0.0001 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0086 ppm	0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-1.811 %	4.152 %	-28.435 %	1.648 %	-0.591 %	1.169 %	-1.372 %
Concentration RSD	443.8 %	212.2 %	154.9 %	477.5 %	53.4 %	16.9 %	98.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0008 ppm	-0.0081 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0009 ppm	-0.0010 ppm	-0.0182 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0004 ppm	0.0025 ppm	0.0250 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	-0.0003 ppm	0.0004 ppm	0.0010 ppm	-0.0312 ppm	0.0021 ppm
Recovery Percentage 1	1.040 %	0.691 %	-3.821 %	5.490 %	1.604 %	-0.324 %	10.881 %
Concentration RSD	74.0 %	478.1 %	54.9 %	52.9 %	219.4 %	362.5 %	84.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0001 ppm	0.0005 ppm	0.0159 ppm	-0.0005 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 1	0.0009 ppm	-0.0002 ppm	-0.0003 ppm	0.0184 ppm	0.0001 ppm	-0.0008 ppm	0.0021 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0011 ppm	0.0163 ppm	-0.0010 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0128 ppm	-0.0005 ppm	-0.0011 ppm	0.0017 ppm
Recovery Percentage 1	0.586 %	-0.624 %	0.948 %	0.793 %	-1.851 %	-6.922 %	3.080 %
Concentration RSD	64.6 %	428.0 %	154.4 %	17.8 %	122.9 %	72.8 %	47.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0031 ppm	-0.0009 ppm	-0.0009 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	-0.0029 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	-0.0037 ppm	-0.0019 ppm	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0026 ppm	-0.0011 ppm	-0.0013 ppm	-0.0002 ppm	-0.0003 ppm	0.0011 ppm	-0.0002 ppm
Recovery Percentage 1	-30.611 %	-0.181 %	-1.780 %	-0.466 %	-3.473 %	3.262 %	-0.256 %
Concentration RSD	17.3 %	116.9 %	80.4 %	322.7 %	42.1 %	56.5 %	911.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	93.8304 %	98.8406 %	96.3633 %	95.8579 %	100.1610 %	98.2818 %
Concentration per Run 1	0.0002 ppm	91.4479 %	99.1175 %	95.7236 %	94.5118 %	100.4568 %	98.0428 %
Concentration per Run 2	0.0001 ppm	94.5031 %	98.8925 %	96.5279 %	96.1839 %	100.3983 %	98.4599 %
Concentration per Run 3	0.0002 ppm	95.5401 %	98.5117 %	96.8385 %	96.8781 %	99.6279 %	98.3428 %
Recovery Percentage 1	3.278 %						
Concentration RSD	40.6 %	2.3 %	0.3 %	0.6 %	1.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: XLLOQ 0.01 Se
Analysis started at: 6/19/2024 8:28:28 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0095 ppm	**0.0005 ppm**	**-0.0004 ppm**	**-0.0003 ppm**	0.0000 ppm	0.0114 ppm
Concentration per Run 1	-0.0001 ppm	0.0050 ppm	-0.0007 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0141 ppm
Concentration per Run 2	0.0000 ppm	0.0081 ppm	0.0018 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 3	-0.0007 ppm	0.0154 ppm	0.0005 ppm	-0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0102 ppm
Recovery Percentage 1	0.000 %	0.000 %	5.266 %	-3.921 %	-3.274 %	0.000 %	0.000 %
Concentration RSD	150.7 %	56.2 %	**234.2 %**	**119.9 %**	**30.5 %**	410.1 %	20.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	**-0.0002 ppm**	**-0.0001 ppm**	**-0.0004 ppm**	0.0025 ppm	-0.0004 ppm	**0.0019 ppm**
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm	0.0022 ppm	-0.0044 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0022 ppm	0.0048 ppm	0.0044 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0030 ppm	-0.0014 ppm	0.0011 ppm
Recovery Percentage 1	0.000 %	-2.438 %	-0.555 %	-3.530 %	0.000 %	0.000 %	18.807 %
Concentration RSD	53.7 %	**41.7 %**	**383.7 %**	**14.2 %**	19.2 %	1,305.1 %	**119.2 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0015 ppm	**0.0001 ppm**	**-0.0005 ppm**	0.0145 ppm	**-0.0002 ppm**	**-0.0013 ppm**	-0.0002 ppm
Concentration per Run 1	0.0027 ppm	0.0000 ppm	-0.0003 ppm	0.0165 ppm	-0.0007 ppm	-0.0013 ppm	-0.0018 ppm
Concentration per Run 2	0.0006 ppm	0.0003 ppm	-0.0006 ppm	0.0142 ppm	0.0003 ppm	-0.0021 ppm	-0.0012 ppm
Concentration per Run 3	0.0014 ppm	0.0002 ppm	-0.0006 ppm	0.0128 ppm	-0.0001 ppm	-0.0003 ppm	0.0024 ppm
Recovery Percentage 1	0.000 %	1.471 %	-4.914 %	0.000 %	-1.529 %	-12.519 %	0.000 %
Concentration RSD	69.0 %	**72.1 %**	**34.8 %**	12.9 %	**325.7 %**	**73.6 %**	1,154.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**0.0070 ppm**	0.0034 ppm	**-0.0006 ppm**	**0.0000 ppm**	**-0.0001 ppm**	**-0.0005 ppm**	**0.0001 ppm**
Concentration per Run 1	0.0076 ppm	0.0030 ppm	-0.0011 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0058 ppm	0.0034 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 3	0.0075 ppm	0.0038 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	69.518 %	0.000 %	-5.941 %	-0.034 %	-0.680 %	-4.796 %	0.574 %
Concentration RSD	**14.4 %**	12.4 %	**86.1 %**	**2,519.4 %**	**200.0 %**	**104.7 %**	**74.6 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0011 ppm**	117.9293 %	107.7189 %	111.2303 %	100.9378 %	100.7328 %	101.1464 %
Concentration per Run 1	0.0012 ppm	119.7941 %	107.3565 %	112.1370 %	100.7912 %	99.9292 %	101.2237 %
Concentration per Run 2	0.0011 ppm	118.2801 %	108.1528 %	110.9460 %	101.2674 %	100.9483 %	100.9803 %
Concentration per Run 3	0.0011 ppm	115.7136 %	107.6475 %	110.6077 %	100.7548 %	101.3210 %	101.2353 %
Recovery Percentage 1	11.197 %						
Concentration RSD	**5.5 %**	1.7 %	0.4 %	0.7 %	0.3 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2431167-02D2 WG1935622
Analysis started at: 6/19/2024 8:40:46 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	162.7534 ppm	0.0968 ppm	0.0042 ppm	0.0691 ppm	0.0040 ppm	18.4082 ppm
Concentration per Run 1	-0.0005 ppm	162.0887 ppm	0.0962 ppm	0.0044 ppm	0.0695 ppm	0.0040 ppm	18.3347 ppm
Concentration per Run 2	-0.0004 ppm	163.1691 ppm	0.0973 ppm	0.0026 ppm	0.0695 ppm	0.0041 ppm	18.4159 ppm
Concentration per Run 3	-0.0001 ppm	163.0023 ppm	0.0968 ppm	0.0055 ppm	0.0683 ppm	0.0040 ppm	18.4739 ppm
Concentration RSD	61.3 %	0.4 %	0.6 %	35.8 %	1.0 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.1765 ppm	0.2137 ppm	0.2985 ppm	361.9153 ppm	2.6562 ppm	0.3476 ppm
Concentration per Run 1	0.0024 ppm	0.1773 ppm	0.2151 ppm	0.3005 ppm	361.5381 ppm	2.6857 ppm	0.3529 ppm
Concentration per Run 2	0.0023 ppm	0.1770 ppm	0.2131 ppm	0.2978 ppm	362.9300 ppm	2.6790 ppm	0.3515 ppm
Concentration per Run 3	0.0024 ppm	0.1752 ppm	0.2128 ppm	0.2972 ppm	361.2778 ppm	2.6040 ppm	0.3383 ppm
Concentration RSD	2.8 %	0.6 %	0.6 %	0.6 %	0.2 %	1.7 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.0215 ppm	5.0517 ppm	0.0072 ppm	1.2596 ppm	0.3641 ppm	0.2089 ppm	0.0073 ppm
Concentration per Run 1	54.3128 ppm	5.0347 ppm	0.0073 ppm	1.2581 ppm	0.3658 ppm	0.2076 ppm	0.0088 ppm
Concentration per Run 2	53.8941 ppm	5.0590 ppm	0.0072 ppm	1.2600 ppm	0.3651 ppm	0.2113 ppm	0.0069 ppm
Concentration per Run 3	53.8575 ppm	5.0613 ppm	0.0071 ppm	1.2607 ppm	0.3614 ppm	0.2077 ppm	0.0061 ppm
Concentration RSD	0.5 %	0.3 %	1.2 %	0.1 %	0.6 %	1.0 %	18.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	9.3898 ppm	0.0018 ppm	0.1106 ppm	0.3248 ppm	0.0023 ppm	0.1791 ppm
Concentration per Run 1	0.0003 ppm	9.4695 ppm	0.0018 ppm	0.1104 ppm	0.3285 ppm	0.0028 ppm	0.1806 ppm
Concentration per Run 2	-0.0016 ppm	9.3754 ppm	0.0012 ppm	0.1107 ppm	0.3277 ppm	0.0024 ppm	0.1792 ppm
Concentration per Run 3	-0.0001 ppm	9.3244 ppm	0.0022 ppm	0.1106 ppm	0.3181 ppm	0.0016 ppm	0.1776 ppm
Concentration RSD	209.9 %	0.8 %	27.9 %	0.1 %	1.8 %	25.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7154 ppm	102.2121 %	102.9017 %	94.1361 %	106.5011 %	112.1546 %	108.5463 %
Concentration per Run 1	0.7198 ppm	101.9683 %	103.2594 %	94.3152 %	105.9508 %	112.2899 %	108.3865 %
Concentration per Run 2	0.7140 ppm	102.5953 %	102.5045 %	93.8607 %	106.8775 %	111.7350 %	108.4128 %
Concentration per Run 3	0.7124 ppm	102.0727 %	102.9412 %	94.2324 %	106.6748 %	112.4391 %	108.8395 %
Concentration RSD	0.5 %	0.3 %	0.4 %	0.3 %	0.5 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2431167-03D2 WG1935622
Analysis started at: 6/19/2024 8:44:49 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	141.6980 ppm	0.1165 ppm	0.0352 ppm	0.0721 ppm	0.0033 ppm	15.2041 ppm
Concentration per Run 1	-0.0004 ppm	141.4868 ppm	0.1175 ppm	0.0339 ppm	0.0710 ppm	0.0034 ppm	15.2160 ppm
Concentration per Run 2	0.0003 ppm	141.4767 ppm	0.1165 ppm	0.0360 ppm	0.0729 ppm	0.0033 ppm	15.1762 ppm
Concentration per Run 3	-0.0004 ppm	142.1305 ppm	0.1156 ppm	0.0358 ppm	0.0725 ppm	0.0033 ppm	15.2202 ppm
Concentration RSD	227.8 %	0.3 %	0.8 %	3.2 %	1.3 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1647 ppm	0.1898 ppm	0.2519 ppm	317.1739 ppm	3.6412 ppm	0.2926 ppm
Concentration per Run 1	0.0012 ppm	0.1668 ppm	0.1918 ppm	0.2534 ppm	315.3542 ppm	3.6218 ppm	0.2875 ppm
Concentration per Run 2	0.0013 ppm	0.1635 ppm	0.1887 ppm	0.2518 ppm	318.1148 ppm	3.6450 ppm	0.2919 ppm
Concentration per Run 3	0.0012 ppm	0.1637 ppm	0.1888 ppm	0.2504 ppm	318.0528 ppm	3.6566 ppm	0.2983 ppm
Concentration RSD	8.5 %	1.1 %	0.9 %	0.6 %	0.5 %	0.5 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.6613 ppm	4.3079 ppm	0.0060 ppm	19.2353 ppm	0.3277 ppm	0.1988 ppm	0.0097 ppm
Concentration per Run 1	50.1223 ppm	4.3117 ppm	0.0058 ppm	19.1956 ppm	0.3312 ppm	0.1985 ppm	0.0103 ppm
Concentration per Run 2	49.3922 ppm	4.3039 ppm	0.0059 ppm	19.2566 ppm	0.3253 ppm	0.1968 ppm	0.0096 ppm
Concentration per Run 3	49.4692 ppm	4.3080 ppm	0.0064 ppm	19.2536 ppm	0.3265 ppm	0.2013 ppm	0.0093 ppm
Concentration RSD	0.8 %	0.1 %	5.2 %	0.2 %	1.0 %	1.1 %	5.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	7.0337 ppm	0.0015 ppm	0.1300 ppm	0.7781 ppm	0.0029 ppm	0.1761 ppm
Concentration per Run 1	0.0003 ppm	7.0439 ppm	0.0016 ppm	0.1295 ppm	0.7838 ppm	0.0021 ppm	0.1780 ppm
Concentration per Run 2	-0.0025 ppm	7.0477 ppm	0.0016 ppm	0.1305 ppm	0.7777 ppm	0.0017 ppm	0.1751 ppm
Concentration per Run 3	0.0001 ppm	7.0094 ppm	0.0013 ppm	0.1302 ppm	0.7727 ppm	0.0050 ppm	0.1753 ppm
Concentration RSD	228.5 %	0.3 %	12.4 %	0.4 %	0.7 %	60.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6041 ppm	100.9263 %	103.1258 %	93.3499 %	106.9628 %	113.6190 %	109.2124 %
Concentration per Run 1	0.6093 ppm	100.2050 %	103.3132 %	93.5832 %	105.8449 %	113.8611 %	109.1816 %
Concentration per Run 2	0.6003 ppm	101.2739 %	103.0527 %	93.3775 %	107.4098 %	113.5280 %	109.0395 %
Concentration per Run 3	0.6027 ppm	101.3001 %	103.0116 %	93.0892 %	107.6336 %	113.4678 %	109.4162 %
Concentration RSD	0.8 %	0.6 %	0.2 %	0.3 %	0.9 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2431167-04D2 WG1935622
Analysis started at: 6/19/2024 8:48:47 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	70.7880 ppm	0.0477 ppm	0.1030 ppm	0.0923 ppm	0.0019 ppm	100.4793 ppm
Concentration per Run 1	0.0001 ppm	71.0027 ppm	0.0487 ppm	0.1043 ppm	0.0930 ppm	0.0018 ppm	100.3119 ppm
Concentration per Run 2	-0.0001 ppm	70.4733 ppm	0.0473 ppm	0.1036 ppm	0.0918 ppm	0.0020 ppm	100.9030 ppm
Concentration per Run 3	-0.0005 ppm	70.8881 ppm	0.0470 ppm	0.1010 ppm	0.0922 ppm	0.0019 ppm	100.2230 ppm
Concentration RSD	193.3 %	0.4 %	1.9 %	1.7 %	0.6 %	4.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0475 ppm	0.1034 ppm	0.0662 ppm	142.2867 ppm	3.8440 ppm	0.1682 ppm
Concentration per Run 1	0.0009 ppm	0.0484 ppm	0.1044 ppm	0.0667 ppm	142.0091 ppm	3.8849 ppm	0.1691 ppm
Concentration per Run 2	0.0008 ppm	0.0476 ppm	0.1032 ppm	0.0659 ppm	143.2416 ppm	3.8007 ppm	0.1671 ppm
Concentration per Run 3	0.0009 ppm	0.0464 ppm	0.1025 ppm	0.0662 ppm	141.6093 ppm	3.8464 ppm	0.1683 ppm
Concentration RSD	9.2 %	2.1 %	0.9 %	0.6 %	0.6 %	1.1 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.4107 ppm	1.5427 ppm	0.0072 ppm	21.6013 ppm	0.1161 ppm	0.0847 ppm	0.0027 ppm
Concentration per Run 1	33.7289 ppm	1.5450 ppm	0.0073 ppm	21.5369 ppm	0.1171 ppm	0.0849 ppm	0.0058 ppm
Concentration per Run 2	33.3886 ppm	1.5401 ppm	0.0074 ppm	21.8280 ppm	0.1171 ppm	0.0847 ppm	0.0037 ppm
Concentration per Run 3	33.1146 ppm	1.5431 ppm	0.0069 ppm	21.4389 ppm	0.1140 ppm	0.0844 ppm	-0.0013 ppm
Concentration RSD	0.9 %	0.2 %	3.9 %	0.9 %	1.6 %	0.3 %	131.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	10.2968 ppm	0.0028 ppm	0.2837 ppm	1.2410 ppm	0.0027 ppm	0.1237 ppm
Concentration per Run 1	-0.0016 ppm	10.4232 ppm	0.0035 ppm	0.2831 ppm	1.2468 ppm	0.0033 ppm	0.1248 ppm
Concentration per Run 2	0.0008 ppm	10.2831 ppm	0.0025 ppm	0.2884 ppm	1.2430 ppm	0.0018 ppm	0.1236 ppm
Concentration per Run 3	-0.0029 ppm	10.1841 ppm	0.0022 ppm	0.2797 ppm	1.2333 ppm	0.0031 ppm	0.1228 ppm
Concentration RSD	147.8 %	1.2 %	24.6 %	1.5 %	0.6 %	30.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3320 ppm	98.9953 %	102.9784 %	93.3245 %	105.0728 %	112.3470 %	106.8274 %
Concentration per Run 1	0.3356 ppm	97.8678 %	102.9377 %	93.0688 %	103.6790 %	112.2398 %	106.8697 %
Concentration per Run 2	0.3320 ppm	99.1651 %	101.9357 %	93.8725 %	105.3562 %	111.4594 %	107.3628 %
Concentration per Run 3	0.3284 ppm	99.9530 %	104.0618 %	93.0323 %	106.1831 %	113.3419 %	106.2498 %
Concentration RSD	1.1 %	1.1 %	1.0 %	0.5 %	1.2 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432924-01D2 WG1935622
Analysis started at: 6/19/2024 8:52:46 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	34.3983 ppm	0.0227 ppm	0.0129 ppm	0.3231 ppm	0.0013 ppm	44.9115 ppm
Concentration per Run 1	0.0006 ppm	34.3894 ppm	0.0235 ppm	0.0131 ppm	0.3223 ppm	0.0013 ppm	44.7508 ppm
Concentration per Run 2	0.0009 ppm	34.4237 ppm	0.0220 ppm	0.0123 ppm	0.3227 ppm	0.0013 ppm	45.0256 ppm
Concentration per Run 3	0.0010 ppm	34.3817 ppm	0.0226 ppm	0.0132 ppm	0.3242 ppm	0.0012 ppm	44.9580 ppm
Concentration RSD	25.7 %	0.1 %	3.4 %	3.8 %	0.3 %	2.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0079 ppm	0.0139 ppm	0.0653 ppm	0.3101 ppm	38.4216 ppm	2.0993 ppm	0.0300 ppm
Concentration per Run 1	0.0081 ppm	0.0145 ppm	0.0661 ppm	0.3129 ppm	38.3872 ppm	2.0912 ppm	0.0322 ppm
Concentration per Run 2	0.0078 ppm	0.0139 ppm	0.0649 ppm	0.3085 ppm	38.4316 ppm	2.1107 ppm	0.0277 ppm
Concentration per Run 3	0.0078 ppm	0.0134 ppm	0.0649 ppm	0.3090 ppm	38.4461 ppm	2.0959 ppm	0.0301 ppm
Concentration RSD	2.1 %	4.1 %	1.1 %	0.8 %	0.1 %	0.5 %	7.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.0831 ppm	0.6215 ppm	0.0089 ppm	0.5753 ppm	0.0560 ppm	0.2529 ppm	0.0028 ppm
Concentration per Run 1	8.1914 ppm	0.6211 ppm	0.0091 ppm	0.5759 ppm	0.0575 ppm	0.2537 ppm	-0.0004 ppm
Concentration per Run 2	8.0504 ppm	0.6229 ppm	0.0088 ppm	0.5745 ppm	0.0552 ppm	0.2506 ppm	0.0035 ppm
Concentration per Run 3	8.0074 ppm	0.6205 ppm	0.0087 ppm	0.5755 ppm	0.0553 ppm	0.2544 ppm	0.0054 ppm
Concentration RSD	1.2 %	0.2 %	1.8 %	0.1 %	2.3 %	0.8 %	105.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	2.8638 ppm	0.0666 ppm	0.2655 ppm	0.5601 ppm	-0.0007 ppm	0.0595 ppm
Concentration per Run 1	0.0029 ppm	2.9181 ppm	0.0679 ppm	0.2651 ppm	0.5686 ppm	0.0010 ppm	0.0598 ppm
Concentration per Run 2	0.0011 ppm	2.8452 ppm	0.0659 ppm	0.2656 ppm	0.5571 ppm	-0.0028 ppm	0.0591 ppm
Concentration per Run 3	0.0033 ppm	2.8281 ppm	0.0661 ppm	0.2659 ppm	0.5546 ppm	-0.0003 ppm	0.0594 ppm
Concentration RSD	49.8 %	1.7 %	1.7 %	0.2 %	1.3 %	287.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1986 ppm	99.4327 %	103.1601 %	96.1798 %	100.4122 %	106.3530 %	101.5058 %
Concentration per Run 1	1.2168 ppm	98.2113 %	102.7868 %	95.7165 %	99.3945 %	105.8723 %	101.0426 %
Concentration per Run 2	1.1923 ppm	99.9366 %	103.4838 %	96.6455 %	100.7295 %	106.9048 %	101.8935 %
Concentration per Run 3	1.1867 ppm	100.1503 %	103.2096 %	96.1773 %	101.1126 %	106.2818 %	101.5813 %
Concentration RSD	1.3 %	1.1 %	0.3 %	0.5 %	0.9 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432925-01D2 WG1935622
Analysis started at: 6/19/2024 8:56:44 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	73.1463 ppm	0.0604 ppm	0.0029 ppm	0.1888 ppm	0.0036 ppm	2.6077 ppm
Concentration per Run 1	-0.0006 ppm	73.2672 ppm	0.0596 ppm	0.0016 ppm	0.1882 ppm	0.0037 ppm	2.6160 ppm
Concentration per Run 2	-0.0001 ppm	73.1314 ppm	0.0612 ppm	0.0027 ppm	0.1878 ppm	0.0037 ppm	2.6034 ppm
Concentration per Run 3	-0.0003 ppm	73.0403 ppm	0.0603 ppm	0.0044 ppm	0.1905 ppm	0.0036 ppm	2.6037 ppm
Concentration RSD	88.6 %	0.2 %	1.4 %	48.8 %	0.8 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0355 ppm	0.0948 ppm	0.0877 ppm	123.3614 ppm	11.3958 ppm	0.1027 ppm
Concentration per Run 1	0.0003 ppm	0.0360 ppm	0.0962 ppm	0.0885 ppm	123.2550 ppm	11.4823 ppm	0.1041 ppm
Concentration per Run 2	0.0002 ppm	0.0358 ppm	0.0946 ppm	0.0874 ppm	122.7928 ppm	11.2964 ppm	0.1003 ppm
Concentration per Run 3	0.0005 ppm	0.0349 ppm	0.0936 ppm	0.0873 ppm	124.0362 ppm	11.4088 ppm	0.1037 ppm
Concentration RSD	39.6 %	1.7 %	1.4 %	0.8 %	0.5 %	0.8 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.1338 ppm	1.1353 ppm	0.0049 ppm	2.4078 ppm	0.0651 ppm	0.1079 ppm	0.0012 ppm
Concentration per Run 1	19.4110 ppm	1.1346 ppm	0.0051 ppm	2.4059 ppm	0.0666 ppm	0.1066 ppm	0.0006 ppm
Concentration per Run 2	19.0992 ppm	1.1350 ppm	0.0051 ppm	2.4095 ppm	0.0644 ppm	0.1097 ppm	0.0005 ppm
Concentration per Run 3	18.8913 ppm	1.1362 ppm	0.0045 ppm	2.4079 ppm	0.0644 ppm	0.1075 ppm	0.0026 ppm
Concentration RSD	1.4 %	0.1 %	6.6 %	0.1 %	1.9 %	1.5 %	97.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	4.2357 ppm	0.0031 ppm	0.0171 ppm	3.8356 ppm	0.0033 ppm	0.1579 ppm
Concentration per Run 1	-0.0023 ppm	4.2965 ppm	0.0044 ppm	0.0171 ppm	3.8946 ppm	0.0027 ppm	0.1604 ppm
Concentration per Run 2	0.0013 ppm	4.2306 ppm	0.0021 ppm	0.0171 ppm	3.8256 ppm	0.0042 ppm	0.1572 ppm
Concentration per Run 3	-0.0008 ppm	4.1800 ppm	0.0026 ppm	0.0172 ppm	3.7867 ppm	0.0031 ppm	0.1561 ppm
Concentration RSD	313.5 %	1.4 %	38.7 %	0.3 %	1.4 %	23.4 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2152 ppm	102.2585 %	106.0088 %	96.0453 %	109.1977 %	115.4431 %	111.4624 %
Concentration per Run 1	0.2183 ppm	101.1966 %	106.3251 %	96.1461 %	108.0672 %	115.9800 %	111.6164 %
Concentration per Run 2	0.2144 ppm	102.2663 %	105.4213 %	96.1830 %	109.2250 %	114.7168 %	111.2382 %
Concentration per Run 3	0.2129 ppm	103.3127 %	106.2801 %	95.8068 %	110.3008 %	115.6326 %	111.5327 %
Concentration RSD	1.3 %	1.0 %	0.5 %	0.2 %	1.0 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432925-02D2 WG1935622
Analysis started at: 6/19/2024 9:00:39 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	51.0856 ppm	0.0629 ppm	0.0008 ppm	0.1914 ppm	0.0020 ppm	1.6255 ppm
Concentration per Run 1	-0.0007 ppm	51.0748 ppm	0.0630 ppm	0.0004 ppm	0.1901 ppm	0.0021 ppm	1.6248 ppm
Concentration per Run 2	-0.0005 ppm	51.3532 ppm	0.0642 ppm	0.0007 ppm	0.1926 ppm	0.0020 ppm	1.6271 ppm
Concentration per Run 3	-0.0004 ppm	50.8289 ppm	0.0615 ppm	0.0012 ppm	0.1915 ppm	0.0021 ppm	1.6246 ppm
Concentration RSD	33.9 %	0.5 %	2.2 %	46.8 %	0.6 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0299 ppm	0.0742 ppm	0.0612 ppm	103.0496 ppm	15.4742 ppm	0.0776 ppm
Concentration per Run 1	0.0002 ppm	0.0298 ppm	0.0758 ppm	0.0619 ppm	103.1097 ppm	15.4149 ppm	0.0789 ppm
Concentration per Run 2	0.0003 ppm	0.0302 ppm	0.0735 ppm	0.0611 ppm	103.2956 ppm	15.5482 ppm	0.0780 ppm
Concentration per Run 3	0.0002 ppm	0.0297 ppm	0.0732 ppm	0.0607 ppm	102.7435 ppm	15.4595 ppm	0.0757 ppm
Concentration RSD	37.7 %	0.9 %	1.9 %	1.0 %	0.3 %	0.4 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.8524 ppm	0.8616 ppm	0.0027 ppm	1.1861 ppm	0.0615 ppm	0.0362 ppm	-0.0004 ppm
Concentration per Run 1	18.1239 ppm	0.8608 ppm	0.0023 ppm	1.1929 ppm	0.0627 ppm	0.0366 ppm	0.0002 ppm
Concentration per Run 2	17.7594 ppm	0.8639 ppm	0.0032 ppm	1.1816 ppm	0.0613 ppm	0.0371 ppm	0.0010 ppm
Concentration per Run 3	17.6739 ppm	0.8600 ppm	0.0026 ppm	1.1837 ppm	0.0607 ppm	0.0350 ppm	-0.0023 ppm
Concentration RSD	1.3 %	0.2 %	16.9 %	0.5 %	1.7 %	3.0 %	452.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	2.4521 ppm	0.0007 ppm	0.0107 ppm	3.6189 ppm	0.0030 ppm	0.1390 ppm
Concentration per Run 1	-0.0009 ppm	2.5192 ppm	0.0004 ppm	0.0107 ppm	3.6697 ppm	0.0035 ppm	0.1414 ppm
Concentration per Run 2	-0.0027 ppm	2.4285 ppm	0.0008 ppm	0.0106 ppm	3.6074 ppm	0.0030 ppm	0.1382 ppm
Concentration per Run 3	-0.0028 ppm	2.4088 ppm	0.0008 ppm	0.0107 ppm	3.5795 ppm	0.0024 ppm	0.1374 ppm
Concentration RSD	50.1 %	2.4 %	31.0 %	0.5 %	1.3 %	18.0 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1876 ppm	101.7743 %	105.6406 %	96.8410 %	102.9083 %	108.9936 %	105.5960 %
Concentration per Run 1	0.1921 ppm	100.8721 %	105.8014 %	96.9956 %	102.3978 %	109.3432 %	105.3369 %
Concentration per Run 2	0.1856 ppm	102.4114 %	105.7453 %	96.7393 %	103.4318 %	109.1617 %	105.5368 %
Concentration per Run 3	0.1851 ppm	102.0394 %	105.3750 %	96.7882 %	102.8953 %	108.4759 %	105.9143 %
Concentration RSD	2.1 %	0.8 %	0.2 %	0.1 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432925-03D2 WG1935622
Analysis started at: 6/19/2024 9:04:34 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	78.5639 ppm	0.0920 ppm	0.0010 ppm	0.3441 ppm	0.0032 ppm	7.5942 ppm
Concentration per Run 1	-0.0006 ppm	78.5882 ppm	0.0923 ppm	0.0011 ppm	0.3441 ppm	0.0032 ppm	7.5982 ppm
Concentration per Run 2	-0.0007 ppm	78.7916 ppm	0.0931 ppm	0.0015 ppm	0.3443 ppm	0.0031 ppm	7.6008 ppm
Concentration per Run 3	-0.0004 ppm	78.3120 ppm	0.0907 ppm	0.0005 ppm	0.3438 ppm	0.0033 ppm	7.5834 ppm
Concentration RSD	26.2 %	0.3 %	1.4 %	46.5 %	0.1 %	2.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0424 ppm	0.1110 ppm	0.1195 ppm	146.7036 ppm	21.1471 ppm	0.1110 ppm
Concentration per Run 1	0.0002 ppm	0.0431 ppm	0.1121 ppm	0.1207 ppm	146.6963 ppm	20.9759 ppm	0.1111 ppm
Concentration per Run 2	0.0003 ppm	0.0422 ppm	0.1103 ppm	0.1191 ppm	146.7566 ppm	21.3143 ppm	0.1107 ppm
Concentration per Run 3	0.0004 ppm	0.0420 ppm	0.1105 ppm	0.1187 ppm	146.6577 ppm	21.1511 ppm	0.1112 ppm
Concentration RSD	36.2 %	1.4 %	0.9 %	0.9 %	0.0 %	0.8 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.6678 ppm	1.3094 ppm	0.0050 ppm	2.3017 ppm	0.0914 ppm	0.0646 ppm	0.0006 ppm
Concentration per Run 1	25.9771 ppm	1.3161 ppm	0.0043 ppm	2.3040 ppm	0.0923 ppm	0.0660 ppm	0.0004 ppm
Concentration per Run 2	25.6325 ppm	1.3054 ppm	0.0053 ppm	2.3060 ppm	0.0904 ppm	0.0626 ppm	0.0023 ppm
Concentration per Run 3	25.3937 ppm	1.3067 ppm	0.0055 ppm	2.2952 ppm	0.0914 ppm	0.0651 ppm	-0.0009 ppm
Concentration RSD	1.1 %	0.4 %	12.4 %	0.2 %	1.1 %	2.7 %	256.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	5.1452 ppm	0.0017 ppm	0.0450 ppm	4.9972 ppm	0.0057 ppm	0.1882 ppm
Concentration per Run 1	-0.0009 ppm	5.1671 ppm	0.0032 ppm	0.0449 ppm	5.0588 ppm	0.0059 ppm	0.1904 ppm
Concentration per Run 2	-0.0025 ppm	5.1315 ppm	0.0011 ppm	0.0450 ppm	4.9854 ppm	0.0047 ppm	0.1884 ppm
Concentration per Run 3	0.0002 ppm	5.1371 ppm	0.0007 ppm	0.0452 ppm	4.9474 ppm	0.0064 ppm	0.1858 ppm
Concentration RSD	133.0 %	0.4 %	81.8 %	0.2 %	1.1 %	15.8 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2581 ppm	103.1102 %	105.1210 %	94.8004 %	105.0053 %	110.2517 %	106.8776 %
Concentration per Run 1	0.2609 ppm	102.4506 %	104.9942 %	94.7882 %	104.1773 %	110.4344 %	106.8239 %
Concentration per Run 2	0.2582 ppm	102.9794 %	104.8255 %	94.8405 %	105.0279 %	109.8899 %	106.6864 %
Concentration per Run 3	0.2553 ppm	103.9008 %	105.5432 %	94.7724 %	105.8109 %	110.4310 %	107.1224 %
Concentration RSD	1.1 %	0.7 %	0.4 %	0.0 %	0.8 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-01D2 WG1935622
Analysis started at: 6/19/2024 9:08:29 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	57.6597 ppm	0.0235 ppm	0.0043 ppm	0.3983 ppm	0.0026 ppm	25.9984 ppm
Concentration per Run 1	0.0000 ppm	57.4780 ppm	0.0240 ppm	0.0043 ppm	0.3987 ppm	0.0026 ppm	25.9842 ppm
Concentration per Run 2	-0.0002 ppm	57.8024 ppm	0.0219 ppm	0.0049 ppm	0.3975 ppm	0.0026 ppm	26.0176 ppm
Concentration per Run 3	-0.0004 ppm	57.6988 ppm	0.0245 ppm	0.0039 ppm	0.3988 ppm	0.0026 ppm	25.9932 ppm
Concentration RSD	84.9 %	0.3 %	5.9 %	11.1 %	0.2 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0603 ppm	0.1550 ppm	0.0997 ppm	96.7267 ppm	16.9741 ppm	0.0986 ppm
Concentration per Run 1	0.0010 ppm	0.0611 ppm	0.1559 ppm	0.1011 ppm	96.8363 ppm	16.9857 ppm	0.1006 ppm
Concentration per Run 2	0.0007 ppm	0.0602 ppm	0.1546 ppm	0.0992 ppm	96.6194 ppm	16.8898 ppm	0.0977 ppm
Concentration per Run 3	0.0009 ppm	0.0596 ppm	0.1545 ppm	0.0988 ppm	96.7243 ppm	17.0467 ppm	0.0974 ppm
Concentration RSD	14.2 %	1.2 %	0.5 %	1.2 %	0.1 %	0.5 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.7529 ppm	0.8806 ppm	0.0022 ppm	2.1063 ppm	0.1465 ppm	0.0420 ppm	0.0002 ppm
Concentration per Run 1	40.2488 ppm	0.8803 ppm	0.0015 ppm	2.1054 ppm	0.1476 ppm	0.0430 ppm	-0.0003 ppm
Concentration per Run 2	39.6293 ppm	0.8800 ppm	0.0028 ppm	2.1106 ppm	0.1461 ppm	0.0402 ppm	-0.0028 ppm
Concentration per Run 3	39.3805 ppm	0.8817 ppm	0.0023 ppm	2.1029 ppm	0.1458 ppm	0.0427 ppm	0.0036 ppm
Concentration RSD	1.1 %	0.1 %	29.0 %	0.2 %	0.6 %	3.6 %	1,956.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	5.3833 ppm	0.0020 ppm	0.0519 ppm	5.7641 ppm	0.0034 ppm	0.2041 ppm
Concentration per Run 1	0.0000 ppm	5.4762 ppm	0.0018 ppm	0.0521 ppm	5.8297 ppm	0.0045 ppm	0.2070 ppm
Concentration per Run 2	-0.0030 ppm	5.3404 ppm	0.0027 ppm	0.0520 ppm	5.7389 ppm	0.0033 ppm	0.2031 ppm
Concentration per Run 3	0.0002 ppm	5.3332 ppm	0.0015 ppm	0.0518 ppm	5.7235 ppm	0.0024 ppm	0.2021 ppm
Concentration RSD	191.8 %	1.5 %	33.1 %	0.3 %	1.0 %	31.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3678 ppm	101.3966 %	104.8162 %	92.2398 %	117.0754 %	123.7497 %	118.8892 %
Concentration per Run 1	0.3727 ppm	100.1816 %	105.2587 %	92.1644 %	115.9721 %	124.7495 %	118.6265 %
Concentration per Run 2	0.3657 ppm	102.0576 %	105.1086 %	91.8643 %	117.6372 %	123.8760 %	118.7613 %
Concentration per Run 3	0.3651 ppm	101.9506 %	104.0813 %	92.6908 %	117.6168 %	122.6235 %	119.2797 %
Concentration RSD	1.2 %	1.0 %	0.6 %	0.5 %	0.8 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-02D2 WG1935622
Analysis started at: 6/19/2024 9:12:24 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	76.4885 ppm	0.0155 ppm	0.0029 ppm	0.6519 ppm	0.0033 ppm	15.9813 ppm
Concentration per Run 1	-0.0004 ppm	76.4693 ppm	0.0148 ppm	0.0026 ppm	0.6480 ppm	0.0033 ppm	15.9854 ppm
Concentration per Run 2	-0.0005 ppm	76.8870 ppm	0.0166 ppm	0.0023 ppm	0.6594 ppm	0.0032 ppm	15.9828 ppm
Concentration per Run 3	-0.0006 ppm	76.1094 ppm	0.0149 ppm	0.0037 ppm	0.6484 ppm	0.0034 ppm	15.9758 ppm
Concentration RSD	25.4 %	0.5 %	6.6 %	26.6 %	1.0 %	3.0 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0691 ppm	0.2148 ppm	0.1408 ppm	119.1164 ppm	35.2999 ppm	0.1221 ppm
Concentration per Run 1	0.0004 ppm	0.0690 ppm	0.2151 ppm	0.1412 ppm	119.1334 ppm	35.2151 ppm	0.1237 ppm
Concentration per Run 2	0.0005 ppm	0.0694 ppm	0.2142 ppm	0.1411 ppm	119.4137 ppm	35.7145 ppm	0.1223 ppm
Concentration per Run 3	0.0005 ppm	0.0688 ppm	0.2150 ppm	0.1401 ppm	118.8022 ppm	34.9700 ppm	0.1202 ppm
Concentration RSD	6.2 %	0.4 %	0.2 %	0.4 %	0.3 %	1.1 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.5727 ppm	1.0117 ppm	-0.0006 ppm	1.2535 ppm	0.2026 ppm	0.0321 ppm	0.0000 ppm
Concentration per Run 1	49.7327 ppm	1.0142 ppm	-0.0006 ppm	1.2515 ppm	0.2031 ppm	0.0320 ppm	-0.0005 ppm
Concentration per Run 2	49.4561 ppm	1.0132 ppm	-0.0005 ppm	1.2550 ppm	0.2019 ppm	0.0307 ppm	-0.0008 ppm
Concentration per Run 3	49.5294 ppm	1.0076 ppm	-0.0008 ppm	1.2541 ppm	0.2028 ppm	0.0337 ppm	0.0012 ppm
Concentration RSD	0.3 %	0.4 %	18.9 %	0.1 %	0.3 %	4.7 %	10,161.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	2.7344 ppm	0.0028 ppm	0.0456 ppm	9.8433 ppm	0.0071 ppm	0.2295 ppm
Concentration per Run 1	-0.0015 ppm	2.7348 ppm	0.0030 ppm	0.0455 ppm	9.8689 ppm	0.0065 ppm	0.2308 ppm
Concentration per Run 2	0.0013 ppm	2.7412 ppm	0.0027 ppm	0.0456 ppm	9.8361 ppm	0.0081 ppm	0.2277 ppm
Concentration per Run 3	-0.0019 ppm	2.7274 ppm	0.0028 ppm	0.0458 ppm	9.8249 ppm	0.0068 ppm	0.2301 ppm
Concentration RSD	243.9 %	0.3 %	4.4 %	0.3 %	0.2 %	12.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4132 ppm	104.3463 %	104.7228 %	90.0098 %	110.2109 %	114.0412 %	111.2597 %
Concentration per Run 1	0.4136 ppm	104.0167 %	104.2723 %	90.1216 %	109.8448 %	113.4531 %	111.5301 %
Concentration per Run 2	0.4112 ppm	104.7352 %	104.6792 %	89.9546 %	110.6702 %	114.0402 %	111.2088 %
Concentration per Run 3	0.4147 ppm	104.2871 %	105.2170 %	89.9533 %	110.1176 %	114.6303 %	111.0402 %
Concentration RSD	0.4 %	0.3 %	0.5 %	0.1 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 9:16:21 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5028 ppm	0.4933 ppm	0.4807 ppm	0.4978 ppm	0.5055 ppm	0.5099 ppm	0.4923 ppm
Concentration per Run 1	0.5088 ppm	0.4965 ppm	0.4782 ppm	0.5022 ppm	0.5048 ppm	0.5107 ppm	0.4940 ppm
Concentration per Run 2	0.5012 ppm	0.4809 ppm	0.4817 ppm	0.4963 ppm	0.5071 ppm	0.5107 ppm	0.4939 ppm
Concentration per Run 3	0.4983 ppm	0.5026 ppm	0.4821 ppm	0.4949 ppm	0.5046 ppm	0.5082 ppm	0.4890 ppm
Recovery Percentage 1	100.553 %	98.669 %	96.136 %	99.558 %	101.103 %	101.973 %	98.459 %
Concentration RSD	1.1 %	2.3 %	0.4 %	0.8 %	0.3 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5063 ppm	0.5103 ppm	0.4968 ppm	0.4918 ppm	0.5151 ppm	5.3323 ppm	0.5029 ppm
Concentration per Run 1	0.5124 ppm	0.5168 ppm	0.5028 ppm	0.4971 ppm	0.5161 ppm	5.3957 ppm	0.5072 ppm
Concentration per Run 2	0.5044 ppm	0.5086 ppm	0.4948 ppm	0.4925 ppm	0.5121 ppm	5.3010 ppm	0.4987 ppm
Concentration per Run 3	0.5021 ppm	0.5055 ppm	0.4926 ppm	0.4858 ppm	0.5170 ppm	5.3003 ppm	0.5028 ppm
Recovery Percentage 1	101.258 %	102.061 %	99.350 %	98.358 %	103.011 %	106.647 %	100.577 %
Concentration RSD	1.1 %	1.1 %	1.1 %	1.2 %	0.5 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4946 ppm	0.4977 ppm	0.4993 ppm	10.3712 ppm	0.5114 ppm	0.4945 ppm	0.4970 ppm
Concentration per Run 1	0.4998 ppm	0.4975 ppm	0.5005 ppm	10.3499 ppm	0.5183 ppm	0.4951 ppm	0.5034 ppm
Concentration per Run 2	0.4937 ppm	0.4984 ppm	0.4983 ppm	10.3883 ppm	0.5093 ppm	0.4950 ppm	0.4987 ppm
Concentration per Run 3	0.4902 ppm	0.4971 ppm	0.4990 ppm	10.3753 ppm	0.5066 ppm	0.4935 ppm	0.4888 ppm
Recovery Percentage 1	98.914 %	99.530 %	99.856 %	103.712 %	102.282 %	98.907 %	99.394 %
Concentration RSD	1.0 %	0.1 %	0.2 %	0.2 %	1.2 %	0.2 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4866 ppm	5.2080 ppm	0.5229 ppm	0.5008 ppm	0.5050 ppm	0.4857 ppm	0.4980 ppm
Concentration per Run 1	0.4818 ppm	5.2595 ppm	0.5282 ppm	0.5002 ppm	0.5122 ppm	0.4832 ppm	0.5045 ppm
Concentration per Run 2	0.4923 ppm	5.1896 ppm	0.5221 ppm	0.5026 ppm	0.5041 ppm	0.4883 ppm	0.4964 ppm
Concentration per Run 3	0.4857 ppm	5.1749 ppm	0.5186 ppm	0.4995 ppm	0.4989 ppm	0.4857 ppm	0.4930 ppm
Recovery Percentage 1	97.322 %	99.201 %	104.590 %	100.158 %	101.007 %	97.147 %	99.593 %
Concentration RSD	1.1 %	0.9 %	0.9 %	0.3 %	1.3 %	0.5 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5117 ppm	100.8791 %	102.8331 %	99.4757 %	95.7716 %	99.7529 %	97.1777 %
Concentration per Run 1	0.5190 ppm	99.6670 %	102.2699 %	99.3219 %	94.5933 %	99.4601 %	97.2408 %
Concentration per Run 2	0.5085 ppm	101.5403 %	102.6739 %	99.4616 %	96.4553 %	99.4087 %	96.9112 %
Concentration per Run 3	0.5077 ppm	101.4300 %	103.5554 %	99.6435 %	96.2662 %	100.3898 %	97.3810 %
Recovery Percentage 1	102.348 %						
Concentration RSD	1.2 %	1.0 %	0.6 %	0.2 %	1.1 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:20:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0029 ppm	-0.0020 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0052 ppm	-0.0022 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 2	-0.0001 ppm	0.0033 ppm	-0.0015 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0022 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-1.192 %	2.898 %	-66.727 %	-1.491 %	-2.381 %	0.244 %	-0.807 %
Concentration RSD	37.8 %	85.1 %	20.3 %	85.4 %	24.4 %	327.3 %	136.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0035 ppm	-0.0088 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0022 ppm	0.0059 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0004 ppm	0.0019 ppm	0.0097 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0063 ppm	-0.0421 ppm	-0.0005 ppm
Recovery Percentage 1	1.366 %	1.880 %	-0.436 %	3.956 %	6.923 %	-0.353 %	-1.038 %
Concentration RSD	100.5 %	49.6 %	1,202.7 %	23.5 %	70.6 %	326.7 %	315.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0058 ppm	-0.0001 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 1	-0.0013 ppm	0.0001 ppm	0.0007 ppm	0.0067 ppm	0.0004 ppm	-0.0012 ppm	-0.0025 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0012 ppm	-0.0005 ppm	-0.0006 ppm	-0.0016 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0009 ppm	0.0093 ppm	-0.0002 ppm	-0.0006 ppm	0.0026 ppm
Recovery Percentage 1	-0.156 %	1.492 %	1.464 %	0.288 %	-0.474 %	-8.339 %	-1.027 %
Concentration RSD	657.2 %	72.0 %	22.8 %	72.0 %	368.5 %	41.6 %	526.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0009 ppm	-0.0015 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 1	-0.0010 ppm	0.0007 ppm	-0.0011 ppm	-0.0001 ppm	-0.0002 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	-0.0046 ppm	0.0002 ppm	-0.0013 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	-0.0013 ppm	0.0017 ppm	-0.0022 ppm	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-22.865 %	0.171 %	-3.043 %	0.061 %	-2.324 %	-3.166 %	-0.246 %
Concentration RSD	88.7 %	89.7 %	41.1 %	1,014.0 %	45.6 %	157.6 %	347.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	94.1776 %	98.9344 %	96.1649 %	95.6693 %	100.1975 %	97.9947 %
Concentration per Run 1	0.0004 ppm	92.5141 %	98.4627 %	95.6717 %	94.5533 %	99.6759 %	97.9167 %
Concentration per Run 2	0.0002 ppm	94.2440 %	99.1837 %	96.1944 %	95.8568 %	100.7745 %	98.0851 %
Concentration per Run 3	0.0003 ppm	95.7746 %	99.1569 %	96.6287 %	96.5978 %	100.1421 %	97.9823 %
Recovery Percentage 1	5.817 %						
Concentration RSD	25.6 %	1.7 %	0.4 %	0.5 %	1.1 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-1 WG1936048
Analysis started at: 6/19/2024 9:27:59 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0149 ppm	0.0002 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0152 ppm
Concentration per Run 1	0.0000 ppm	0.0139 ppm	-0.0009 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 2	0.0003 ppm	0.0133 ppm	0.0008 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0153 ppm
Concentration per Run 3	0.0001 ppm	0.0176 ppm	0.0007 ppm	-0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0158 ppm
Recovery Percentage 1	2.129 %	14.949 %	7.538 %	-1.846 %	-1.637 %	0.484 %	15.242 %
Concentration RSD	72.9 %	15.4 %	419.3 %	130.7 %	40.7 %	23.9 %	4.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	-0.0005 ppm	0.0470 ppm	0.0031 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0006 ppm	-0.0004 ppm	0.0469 ppm	-0.0021 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0006 ppm	-0.0004 ppm	0.0473 ppm	0.0151 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm	0.0469 ppm	-0.0039 ppm	0.0016 ppm
Recovery Percentage 1	0.129 %	-0.442 %	4.218 %	-4.756 %	94.060 %	0.122 %	12.805 %
Concentration RSD	378.7 %	426.1 %	66.4 %	30.8 %	0.5 %	344.6 %	25.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0046 ppm	0.0006 ppm	-0.0002 ppm	0.0162 ppm	-0.0005 ppm	-0.0014 ppm	-0.0025 ppm
Concentration per Run 1	0.0049 ppm	0.0007 ppm	-0.0002 ppm	0.0140 ppm	-0.0008 ppm	-0.0014 ppm	-0.0018 ppm
Concentration per Run 2	0.0039 ppm	0.0007 ppm	-0.0003 ppm	0.0220 ppm	-0.0004 ppm	-0.0009 ppm	-0.0044 ppm
Concentration per Run 3	0.0051 ppm	0.0005 ppm	-0.0001 ppm	0.0127 ppm	-0.0003 ppm	-0.0020 ppm	-0.0014 ppm
Recovery Percentage 1	4.641 %	6.178 %	-0.340 %	0.811 %	-1.856 %	-13.964 %	-5.070 %
Concentration RSD	14.4 %	22.4 %	52.9 %	31.0 %	55.2 %	38.3 %	63.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0105 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	-0.0012 ppm	0.0129 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0024 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	0.0097 ppm	0.0004 ppm	-0.0001 ppm	0.0005 ppm	-0.0011 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0088 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-6.361 %	2.095 %	0.324 %	0.726 %	5.083 %	1.776 %	1.540 %
Concentration RSD	109.3 %	20.6 %	197.5 %	262.7 %	4.1 %	509.3 %	135.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	118.7688 %	107.0780 %	112.0656 %	101.2886 %	100.3736 %	101.9723 %
Concentration per Run 1	0.0010 ppm	121.2015 %	108.3041 %	113.0365 %	101.4794 %	100.9530 %	101.3618 %
Concentration per Run 2	0.0008 ppm	118.2940 %	106.4703 %	112.1110 %	100.9385 %	99.8787 %	102.2617 %
Concentration per Run 3	0.0009 ppm	116.8110 %	106.4596 %	111.0493 %	101.4480 %	100.2892 %	102.2934 %
Recovery Percentage 1	18.471 %						
Concentration RSD	11.2 %	1.9 %	1.0 %	0.9 %	0.3 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-2D2 WG1936048
Analysis started at: 6/19/2024 9:32:10 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0562 ppm	2.2579 ppm	0.1320 ppm	1.0986 ppm	2.1965 ppm	0.0554 ppm	10.7369 ppm
Concentration per Run 1	0.0570 ppm	2.2769 ppm	0.1331 ppm	1.1157 ppm	2.2158 ppm	0.0557 ppm	10.7878 ppm
Concentration per Run 2	0.0561 ppm	2.2555 ppm	0.1319 ppm	1.0988 ppm	2.1890 ppm	0.0553 ppm	10.7104 ppm
Concentration per Run 3	0.0555 ppm	2.2412 ppm	0.1309 ppm	1.0811 ppm	2.1847 ppm	0.0551 ppm	10.7123 ppm
Concentration RSD	1.3 %	0.8 %	0.8 %	1.6 %	0.8 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0592 ppm	0.5623 ppm	0.2241 ppm	0.2796 ppm	1.1099 ppm	11.3326 ppm	-0.0009 ppm
Concentration per Run 1	0.0602 ppm	0.5713 ppm	0.2276 ppm	0.2849 ppm	1.1208 ppm	11.3837 ppm	0.0004 ppm
Concentration per Run 2	0.0591 ppm	0.5626 ppm	0.2235 ppm	0.2786 ppm	1.1072 ppm	11.3831 ppm	0.0000 ppm
Concentration per Run 3	0.0584 ppm	0.5531 ppm	0.2212 ppm	0.2751 ppm	1.1017 ppm	11.2311 ppm	-0.0030 ppm
Concentration RSD	1.5 %	1.6 %	1.4 %	1.8 %	0.9 %	0.8 %	218.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9131 ppm	0.5414 ppm	1.1072 ppm	11.2521 ppm	0.5514 ppm	0.5911 ppm	0.5661 ppm
Concentration per Run 1	11.1044 ppm	0.5429 ppm	1.1150 ppm	11.2937 ppm	0.5603 ppm	0.5956 ppm	0.5716 ppm
Concentration per Run 2	10.9131 ppm	0.5415 ppm	1.1084 ppm	11.2795 ppm	0.5515 ppm	0.5917 ppm	0.5682 ppm
Concentration per Run 3	10.7217 ppm	0.5399 ppm	1.0982 ppm	11.1830 ppm	0.5425 ppm	0.5858 ppm	0.5584 ppm
Concentration RSD	1.8 %	0.3 %	0.8 %	0.5 %	1.6 %	0.8 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1301 ppm	1.1088 ppm	1.1164 ppm	1.0347 ppm	1.1059 ppm	0.1310 ppm	0.5664 ppm
Concentration per Run 1	0.1310 ppm	1.1245 ppm	1.1347 ppm	1.0420 ppm	1.1248 ppm	0.1316 ppm	0.5760 ppm
Concentration per Run 2	0.1295 ppm	1.1011 ppm	1.1115 ppm	1.0353 ppm	1.1030 ppm	0.1311 ppm	0.5681 ppm
Concentration per Run 3	0.1298 ppm	1.1007 ppm	1.1029 ppm	1.0269 ppm	1.0899 ppm	0.1303 ppm	0.5551 ppm
Concentration RSD	0.6 %	1.2 %	1.5 %	0.7 %	1.6 %	0.5 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5601 ppm	98.3876 %	101.3158 %	96.8386 %	94.2155 %	98.2690 %	96.0536 %
Concentration per Run 1	0.5719 ppm	97.0287 %	101.8379 %	97.5048 %	93.1627 %	98.9238 %	96.5418 %
Concentration per Run 2	0.5602 ppm	98.2013 %	101.3073 %	95.9889 %	94.1197 %	98.2038 %	95.7221 %
Concentration per Run 3	0.5482 ppm	99.9328 %	100.8023 %	97.0222 %	95.3642 %	97.6793 %	95.8968 %
Concentration RSD	2.1 %	1.5 %	0.5 %	0.8 %	1.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-03D2 WG1935622
Analysis started at: 6/19/2024 9:36:07 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	38.6031 ppm	0.0110 ppm	0.0026 ppm	0.2684 ppm	0.0016 ppm	10.3787 ppm
Concentration per Run 1	-0.0001 ppm	38.6942 ppm	0.0117 ppm	0.0034 ppm	0.2676 ppm	0.0016 ppm	10.3946 ppm
Concentration per Run 2	-0.0001 ppm	38.5564 ppm	0.0092 ppm	0.0024 ppm	0.2688 ppm	0.0017 ppm	10.3779 ppm
Concentration per Run 3	-0.0008 ppm	38.5587 ppm	0.0120 ppm	0.0021 ppm	0.2688 ppm	0.0017 ppm	10.3635 ppm
Concentration RSD	135.9 %	0.2 %	14.1 %	25.8 %	0.3 %	2.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0289 ppm	0.0973 ppm	0.0536 ppm	72.3207 ppm	13.5137 ppm	0.0584 ppm
Concentration per Run 1	0.0003 ppm	0.0294 ppm	0.0985 ppm	0.0541 ppm	72.2182 ppm	13.4061 ppm	0.0582 ppm
Concentration per Run 2	0.0003 ppm	0.0291 ppm	0.0970 ppm	0.0534 ppm	72.3536 ppm	13.5837 ppm	0.0577 ppm
Concentration per Run 3	0.0003 ppm	0.0283 ppm	0.0964 ppm	0.0534 ppm	72.3903 ppm	13.5514 ppm	0.0594 ppm
Concentration RSD	10.0 %	1.9 %	1.1 %	0.7 %	0.1 %	0.7 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.1743 ppm	0.5975 ppm	0.0026 ppm	0.7023 ppm	0.0688 ppm	0.0202 ppm	0.0001 ppm
Concentration per Run 1	22.4707 ppm	0.5961 ppm	0.0029 ppm	0.7061 ppm	0.0696 ppm	0.0204 ppm	-0.0025 ppm
Concentration per Run 2	22.0928 ppm	0.5985 ppm	0.0021 ppm	0.7044 ppm	0.0695 ppm	0.0203 ppm	0.0031 ppm
Concentration per Run 3	21.9593 ppm	0.5979 ppm	0.0029 ppm	0.6964 ppm	0.0675 ppm	0.0201 ppm	-0.0005 ppm
Concentration RSD	1.2 %	0.2 %	17.3 %	0.7 %	1.7 %	0.6 %	4,686.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	2.2290 ppm	0.0019 ppm	0.0269 ppm	3.7691 ppm	0.0047 ppm	0.1486 ppm
Concentration per Run 1	-0.0042 ppm	2.2400 ppm	0.0023 ppm	0.0270 ppm	3.8026 ppm	0.0056 ppm	0.1499 ppm
Concentration per Run 2	-0.0020 ppm	2.2218 ppm	0.0018 ppm	0.0267 ppm	3.7675 ppm	0.0042 ppm	0.1481 ppm
Concentration per Run 3	-0.0027 ppm	2.2252 ppm	0.0016 ppm	0.0269 ppm	3.7371 ppm	0.0043 ppm	0.1477 ppm
Concentration RSD	37.2 %	0.4 %	19.9 %	0.5 %	0.9 %	17.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1928 ppm	103.4234 %	104.3005 %	97.6426 %	109.3308 %	113.3059 %	110.8340 %
Concentration per Run 1	0.1953 ppm	101.4220 %	103.7329 %	98.2594 %	107.4170 %	112.9340 %	111.1598 %
Concentration per Run 2	0.1921 ppm	104.1170 %	104.7809 %	97.3600 %	109.9365 %	114.1020 %	110.6331 %
Concentration per Run 3	0.1909 ppm	104.7313 %	104.3877 %	97.3086 %	110.6389 %	112.8816 %	110.7091 %
Concentration RSD	1.2 %	1.7 %	0.5 %	0.5 %	1.5 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-04D2 WG1935622
Analysis started at: 6/19/2024 9:40:04 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	28.1116 ppm	0.0221 ppm	0.0015 ppm	0.2358 ppm	0.0007 ppm	6.3097 ppm
Concentration per Run 1	-0.0002 ppm	28.3241 ppm	0.0206 ppm	0.0017 ppm	0.2370 ppm	0.0007 ppm	6.3136 ppm
Concentration per Run 2	-0.0001 ppm	27.8240 ppm	0.0244 ppm	0.0025 ppm	0.2326 ppm	0.0008 ppm	6.3353 ppm
Concentration per Run 3	-0.0004 ppm	28.1866 ppm	0.0212 ppm	0.0002 ppm	0.2378 ppm	0.0007 ppm	6.2803 ppm
Concentration RSD	84.2 %	0.9 %	9.3 %	81.3 %	1.2 %	9.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0235 ppm	0.0742 ppm	0.0365 ppm	58.5973 ppm	8.8219 ppm	0.0447 ppm
Concentration per Run 1	0.0003 ppm	0.0238 ppm	0.0752 ppm	0.0366 ppm	58.4914 ppm	8.9107 ppm	0.0452 ppm
Concentration per Run 2	0.0003 ppm	0.0230 ppm	0.0738 ppm	0.0368 ppm	58.8533 ppm	8.6769 ppm	0.0421 ppm
Concentration per Run 3	0.0004 ppm	0.0237 ppm	0.0735 ppm	0.0361 ppm	58.4472 ppm	8.8781 ppm	0.0467 ppm
Concentration RSD	1.8 %	1.7 %	1.3 %	1.0 %	0.4 %	1.4 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5220 ppm	0.4090 ppm	0.0007 ppm	0.4570 ppm	0.0549 ppm	0.0117 ppm	0.0010 ppm
Concentration per Run 1	14.7360 ppm	0.4095 ppm	0.0012 ppm	0.4494 ppm	0.0547 ppm	0.0104 ppm	0.0051 ppm
Concentration per Run 2	14.4795 ppm	0.4082 ppm	0.0004 ppm	0.4745 ppm	0.0543 ppm	0.0130 ppm	0.0020 ppm
Concentration per Run 3	14.3504 ppm	0.4094 ppm	0.0006 ppm	0.4470 ppm	0.0555 ppm	0.0117 ppm	-0.0040 ppm
Concentration RSD	1.4 %	0.2 %	56.8 %	3.3 %	1.1 %	11.3 %	444.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	1.5837 ppm	0.0009 ppm	0.0234 ppm	2.9208 ppm	0.0021 ppm	0.0777 ppm
Concentration per Run 1	-0.0032 ppm	1.5983 ppm	0.0014 ppm	0.0230 ppm	2.9594 ppm	0.0027 ppm	0.0787 ppm
Concentration per Run 2	0.0003 ppm	1.5793 ppm	0.0005 ppm	0.0240 ppm	2.9085 ppm	0.0017 ppm	0.0772 ppm
Concentration per Run 3	-0.0040 ppm	1.5735 ppm	0.0007 ppm	0.0232 ppm	2.8943 ppm	0.0020 ppm	0.0771 ppm
Concentration RSD	100.8 %	0.8 %	51.2 %	2.1 %	1.2 %	24.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1531 ppm	100.9621 %	103.4931 %	97.0932 %	108.0164 %	113.1367 %	110.6763 %
Concentration per Run 1	0.1549 ppm	99.4179 %	103.1323 %	97.2782 %	106.6546 %	112.5357 %	110.8090 %
Concentration per Run 2	0.1530 ppm	101.0456 %	102.8758 %	97.3090 %	108.0979 %	113.0172 %	110.9180 %
Concentration per Run 3	0.1515 ppm	102.4229 %	104.4713 %	96.6924 %	109.2967 %	113.8571 %	110.3019 %
Concentration RSD	1.1 %	1.5 %	0.8 %	0.4 %	1.2 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-07D2 WG1935622
Analysis started at: 6/19/2024 9:44:00 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	94.8729 ppm	0.0219 ppm	0.0095 ppm	0.7377 ppm	0.0050 ppm	95.3560 ppm
Concentration per Run 1	-0.0006 ppm	94.4150 ppm	0.0201 ppm	0.0097 ppm	0.7297 ppm	0.0052 ppm	95.5180 ppm
Concentration per Run 2	-0.0012 ppm	94.8305 ppm	0.0238 ppm	0.0095 ppm	0.7424 ppm	0.0049 ppm	95.2031 ppm
Concentration per Run 3	-0.0007 ppm	95.3730 ppm	0.0217 ppm	0.0093 ppm	0.7411 ppm	0.0049 ppm	95.3470 ppm
Concentration RSD	38.7 %	0.5 %	8.3 %	2.1 %	0.9 %	3.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0945 ppm	0.2470 ppm	0.2763 ppm	163.8722 ppm	38.1050 ppm	0.1444 ppm
Concentration per Run 1	0.0012 ppm	0.0951 ppm	0.2508 ppm	0.2797 ppm	163.8620 ppm	37.7275 ppm	0.1427 ppm
Concentration per Run 2	0.0010 ppm	0.0945 ppm	0.2456 ppm	0.2745 ppm	163.9207 ppm	38.3776 ppm	0.1449 ppm
Concentration per Run 3	0.0012 ppm	0.0938 ppm	0.2447 ppm	0.2748 ppm	163.8338 ppm	38.2100 ppm	0.1457 ppm
Concentration RSD	10.9 %	0.7 %	1.3 %	1.1 %	0.0 %	0.9 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	101.3337 ppm	1.6724 ppm	0.0036 ppm	1.6767 ppm	0.2291 ppm	0.0721 ppm	0.0036 ppm
Concentration per Run 1	102.7634 ppm	1.6692 ppm	0.0035 ppm	1.6988 ppm	0.2330 ppm	0.0727 ppm	0.0021 ppm
Concentration per Run 2	100.8449 ppm	1.6739 ppm	0.0035 ppm	1.6661 ppm	0.2287 ppm	0.0729 ppm	0.0052 ppm
Concentration per Run 3	100.3926 ppm	1.6741 ppm	0.0038 ppm	1.6654 ppm	0.2256 ppm	0.0707 ppm	0.0033 ppm
Concentration RSD	1.2 %	0.2 %	5.3 %	1.1 %	1.6 %	1.7 %	43.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	3.1343 ppm	0.0040 ppm	0.1071 ppm	9.5746 ppm	0.0091 ppm	0.3167 ppm
Concentration per Run 1	-0.0006 ppm	3.1832 ppm	0.0050 ppm	0.1077 ppm	9.7095 ppm	0.0081 ppm	0.3188 ppm
Concentration per Run 2	-0.0001 ppm	3.1295 ppm	0.0031 ppm	0.1069 ppm	9.5511 ppm	0.0103 ppm	0.3177 ppm
Concentration per Run 3	0.0001 ppm	3.0900 ppm	0.0039 ppm	0.1068 ppm	9.4632 ppm	0.0090 ppm	0.3136 ppm
Concentration RSD	169.1 %	1.5 %	23.7 %	0.4 %	1.3 %	12.0 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5226 ppm	104.2843 %	106.3252 %	88.6109 %	125.5466 %	132.8985 %	127.0658 %
Concentration per Run 1	0.5301 ppm	103.0336 %	105.2979 %	88.6243 %	124.4725 %	131.8718 %	127.2147 %
Concentration per Run 2	0.5205 ppm	104.6967 %	106.7518 %	88.5723 %	125.5619 %	133.0124 %	126.7118 %
Concentration per Run 3	0.5173 ppm	105.1225 %	106.9258 %	88.6361 %	126.6054 %	133.8114 %	127.2707 %
Concentration RSD	1.3 %	1.1 %	0.8 %	0.0 %	0.8 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434073-04D2 WG1936048
Analysis started at: 6/19/2024 9:47:57 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0031 ppm	43.2599 ppm	0.0305 ppm	0.0437 ppm	2.1028 ppm	0.0014 ppm	456.3477 ppm
Concentration per Run 1	0.0032 ppm	43.3564 ppm	0.0275 ppm	0.0430 ppm	2.0997 ppm	0.0015 ppm	455.9551 ppm
Concentration per Run 2	0.0032 ppm	43.1395 ppm	0.0327 ppm	0.0431 ppm	2.0952 ppm	0.0014 ppm	456.9378 ppm
Concentration per Run 3	0.0029 ppm	43.2839 ppm	0.0312 ppm	0.0449 ppm	2.1135 ppm	0.0014 ppm	456.1501 ppm
Concentration RSD	5.9 %	0.3 %	8.7 %	2.5 %	0.5 %	2.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0237 ppm	6.3113 ppm	0.3935 ppm	11.2084 ppm	176.7677 ppm	4.1437 ppm	1.7194 ppm
Concentration per Run 1	0.0241 ppm	6.3753 ppm	0.3985 ppm	11.3542 ppm	176.9249 ppm	4.1353 ppm	1.7034 ppm
Concentration per Run 2	0.0237 ppm	6.2998 ppm	0.3927 ppm	11.1759 ppm	176.1641 ppm	4.1311 ppm	1.7128 ppm
Concentration per Run 3	0.0234 ppm	6.2587 ppm	0.3892 ppm	11.0951 ppm	177.2141 ppm	4.1646 ppm	1.7421 ppm
Concentration RSD	1.5 %	0.9 %	1.2 %	1.2 %	0.3 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	142.9433 ppm	3.4167 ppm	0.0254 ppm	1.4269 ppm	29.7007 ppm	0.4172 ppm	0.1295 ppm
Concentration per Run 1	144.8000 ppm	3.4133 ppm	0.0260 ppm	1.4286 ppm	30.1380 ppm	0.4198 ppm	0.1281 ppm
Concentration per Run 2	142.7375 ppm	3.4199 ppm	0.0247 ppm	1.4270 ppm	29.6349 ppm	0.4160 ppm	0.1292 ppm
Concentration per Run 3	141.2926 ppm	3.4169 ppm	0.0254 ppm	1.4253 ppm	29.3292 ppm	0.4158 ppm	0.1312 ppm
Concentration RSD	1.2 %	0.1 %	2.4 %	0.1 %	1.4 %	0.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0058 ppm	6.0787 ppm	0.2119 ppm	0.4645 ppm	1.0055 ppm	0.0033 ppm	0.0976 ppm
Concentration per Run 1	-0.0062 ppm	6.1748 ppm	0.2151 ppm	0.4671 ppm	1.0200 ppm	0.0042 ppm	0.0984 ppm
Concentration per Run 2	-0.0071 ppm	6.0062 ppm	0.2115 ppm	0.4621 ppm	0.9996 ppm	0.0034 ppm	0.0971 ppm
Concentration per Run 3	-0.0040 ppm	6.0550 ppm	0.2091 ppm	0.4642 ppm	0.9968 ppm	0.0023 ppm	0.0973 ppm
Concentration RSD	27.4 %	1.4 %	1.4 %	0.5 %	1.3 %	30.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.9486 ppm	96.8788 %	102.8417 %	87.4625 %	102.8149 %	112.7083 %	101.7231 %
Concentration per Run 1	2.9938 ppm	95.9375 %	102.3898 %	87.2883 %	101.9862 %	112.3993 %	101.5631 %
Concentration per Run 2	2.9417 ppm	96.8478 %	102.9142 %	87.3848 %	102.8406 %	112.6037 %	101.4041 %
Concentration per Run 3	2.9104 ppm	97.8511 %	103.2212 %	87.7144 %	103.6178 %	113.1220 %	102.2020 %
Concentration RSD	1.4 %	1.0 %	0.4 %	0.3 %	0.8 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-3D2 WG1936048
Analysis started at: 6/19/2024 9:51:55 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0567 ppm	50.7041 ppm	0.1767 ppm	1.0644 ppm	5.0658 ppm	0.0554 ppm	445.6495 ppm
Concentration per Run 1	0.0575 ppm	50.7637 ppm	0.1760 ppm	1.0729 ppm	5.0720 ppm	0.0555 ppm	446.1382 ppm
Concentration per Run 2	0.0566 ppm	50.7436 ppm	0.1771 ppm	1.0673 ppm	5.0573 ppm	0.0554 ppm	445.6870 ppm
Concentration per Run 3	0.0561 ppm	50.6051 ppm	0.1769 ppm	1.0529 ppm	5.0682 ppm	0.0553 ppm	445.1232 ppm
Concentration RSD	1.2 %	0.2 %	0.3 %	1.0 %	0.2 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0812 ppm	8.8514 ppm	0.7404 ppm	15.7426 ppm	378.0819 ppm	15.7554 ppm	2.2641 ppm
Concentration per Run 1	0.0817 ppm	8.9345 ppm	0.7488 ppm	15.9168 ppm	379.0932 ppm	15.8261 ppm	2.2698 ppm
Concentration per Run 2	0.0814 ppm	8.8477 ppm	0.7393 ppm	15.6864 ppm	377.6659 ppm	15.6607 ppm	2.2446 ppm
Concentration per Run 3	0.0804 ppm	8.7718 ppm	0.7330 ppm	15.6247 ppm	377.4867 ppm	15.7794 ppm	2.2780 ppm
Concentration RSD	0.8 %	0.9 %	1.1 %	1.0 %	0.2 %	0.5 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	138.5820 ppm	5.6843 ppm	1.0493 ppm	12.9156 ppm	42.2701 ppm	1.1035 ppm	0.7243 ppm
Concentration per Run 1	139.9440 ppm	5.6904 ppm	1.0498 ppm	12.9153 ppm	42.7251 ppm	1.1093 ppm	0.7321 ppm
Concentration per Run 2	138.3533 ppm	5.6843 ppm	1.0491 ppm	12.9524 ppm	42.1971 ppm	1.0977 ppm	0.7273 ppm
Concentration per Run 3	137.4487 ppm	5.6781 ppm	1.0491 ppm	12.8793 ppm	41.8883 ppm	1.1035 ppm	0.7135 ppm
Concentration RSD	0.9 %	0.1 %	0.0 %	0.3 %	1.0 %	0.5 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1086 ppm	9.3619 ppm	1.3604 ppm	1.5342 ppm	2.1628 ppm	0.1323 ppm	0.6371 ppm
Concentration per Run 1	0.1078 ppm	9.4859 ppm	1.3756 ppm	1.5361 ppm	2.1864 ppm	0.1315 ppm	0.6430 ppm
Concentration per Run 2	0.1083 ppm	9.3507 ppm	1.3576 ppm	1.5359 ppm	2.1566 ppm	0.1330 ppm	0.6361 ppm
Concentration per Run 3	0.1097 ppm	9.2491 ppm	1.3478 ppm	1.5307 ppm	2.1454 ppm	0.1325 ppm	0.6323 ppm
Concentration RSD	0.9 %	1.3 %	1.0 %	0.2 %	1.0 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.6391 ppm	96.0642 %	101.1620 %	82.0655 %	100.6321 %	110.3684 %	98.3282 %
Concentration per Run 1	3.6801 ppm	95.4691 %	100.8873 %	82.4776 %	99.7244 %	110.1166 %	98.6625 %
Concentration per Run 2	3.6360 ppm	96.3617 %	101.6573 %	82.3064 %	101.0337 %	111.0437 %	98.3207 %
Concentration per Run 3	3.6012 ppm	96.3617 %	100.9416 %	81.4123 %	101.1381 %	109.9448 %	98.0014 %
Concentration RSD	1.1 %	0.5 %	0.4 %	0.7 %	0.8 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-4D2 WG1936048
Analysis started at: 6/19/2024 9:55:53 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	44.0484 ppm	0.0316 ppm	0.0462 ppm	2.0343 ppm	0.0016 ppm	519.2683 ppm
Concentration per Run 1	0.0008 ppm	44.2273 ppm	0.0320 ppm	0.0462 ppm	2.0400 ppm	0.0017 ppm	520.2521 ppm
Concentration per Run 2	0.0011 ppm	44.0643 ppm	0.0329 ppm	0.0461 ppm	2.0411 ppm	0.0017 ppm	519.4311 ppm
Concentration per Run 3	0.0013 ppm	43.8536 ppm	0.0298 ppm	0.0464 ppm	2.0217 ppm	0.0016 ppm	518.1215 ppm
Concentration RSD	23.7 %	0.4 %	5.2 %	0.3 %	0.5 %	2.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0261 ppm	4.4837 ppm	0.4605 ppm	8.8072 ppm	185.1485 ppm	4.3366 ppm	1.6451 ppm
Concentration per Run 1	0.0265 ppm	4.5324 ppm	0.4666 ppm	8.9365 ppm	185.4300 ppm	4.3912 ppm	1.6515 ppm
Concentration per Run 2	0.0260 ppm	4.4805 ppm	0.4590 ppm	8.7833 ppm	185.9860 ppm	4.3077 ppm	1.6413 ppm
Concentration per Run 3	0.0258 ppm	4.4383 ppm	0.4558 ppm	8.7020 ppm	184.0295 ppm	4.3109 ppm	1.6427 ppm
Concentration RSD	1.3 %	1.1 %	1.2 %	1.4 %	0.5 %	1.1 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	163.5863 ppm	3.3232 ppm	0.0341 ppm	1.4942 ppm	20.8813 ppm	0.4910 ppm	0.1140 ppm
Concentration per Run 1	165.9000 ppm	3.3321 ppm	0.0341 ppm	1.4966 ppm	21.1726 ppm	0.4933 ppm	0.1126 ppm
Concentration per Run 2	163.0526 ppm	3.3284 ppm	0.0340 ppm	1.4944 ppm	20.8248 ppm	0.4914 ppm	0.1184 ppm
Concentration per Run 3	161.8064 ppm	3.3090 ppm	0.0343 ppm	1.4915 ppm	20.6465 ppm	0.4884 ppm	0.1110 ppm
Concentration RSD	1.3 %	0.4 %	0.5 %	0.2 %	1.3 %	0.5 %	3.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0062 ppm	6.6932 ppm	0.2556 ppm	0.5350 ppm	0.9934 ppm	0.0034 ppm	0.1065 ppm
Concentration per Run 1	-0.0058 ppm	6.7580 ppm	0.2605 ppm	0.5346 ppm	1.0110 ppm	0.0054 ppm	0.1080 ppm
Concentration per Run 2	-0.0056 ppm	6.7307 ppm	0.2535 ppm	0.5381 ppm	0.9898 ppm	0.0035 ppm	0.1063 ppm
Concentration per Run 3	-0.0071 ppm	6.5910 ppm	0.2529 ppm	0.5323 ppm	0.9793 ppm	0.0012 ppm	0.1053 ppm
Concentration RSD	13.5 %	1.3 %	1.7 %	0.5 %	1.6 %	62.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.8039 ppm	97.1416 %	102.5946 %	86.7367 %	103.4193 %	112.8008 %	101.8402 %
Concentration per Run 1	3.8618 ppm	96.4031 %	102.7341 %	86.7154 %	102.7684 %	112.8636 %	101.5240 %
Concentration per Run 2	3.7881 ppm	97.4258 %	102.6104 %	86.4829 %	103.7061 %	112.9455 %	101.5184 %
Concentration per Run 3	3.7617 ppm	97.5958 %	102.4394 %	87.0119 %	103.7832 %	112.5933 %	102.4782 %
Concentration RSD	1.4 %	0.7 %	0.1 %	0.3 %	0.5 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-5D2 WG1936048
Analysis started at: 6/19/2024 9:59:48 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0525 ppm	43.5202 ppm	0.1580 ppm	0.9865 ppm	3.8832 ppm	0.0488 ppm	449.7001 ppm
Concentration per Run 1	0.0529 ppm	43.4201 ppm	0.1601 ppm	0.9942 ppm	3.8908 ppm	0.0487 ppm	449.3981 ppm
Concentration per Run 2	0.0528 ppm	43.5529 ppm	0.1561 ppm	0.9851 ppm	3.8745 ppm	0.0488 ppm	449.3053 ppm
Concentration per Run 3	0.0518 ppm	43.5875 ppm	0.1578 ppm	0.9803 ppm	3.8845 ppm	0.0489 ppm	450.3969 ppm
Concentration RSD	1.1 %	0.2 %	1.3 %	0.7 %	0.2 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0693 ppm	6.5022 ppm	0.5609 ppm	11.0072 ppm	171.5391 ppm	14.6270 ppm	1.6244 ppm
Concentration per Run 1	0.0702 ppm	6.5821 ppm	0.5675 ppm	11.1482 ppm	171.5480 ppm	14.7136 ppm	1.6543 ppm
Concentration per Run 2	0.0690 ppm	6.4932 ppm	0.5624 ppm	10.9866 ppm	171.2743 ppm	14.5750 ppm	1.6016 ppm
Concentration per Run 3	0.0687 ppm	6.4313 ppm	0.5527 ppm	10.8867 ppm	171.7949 ppm	14.5925 ppm	1.6173 ppm
Concentration RSD	1.2 %	1.2 %	1.3 %	1.2 %	0.2 %	0.5 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	146.4501 ppm	3.7620 ppm	0.9378 ppm	11.8142 ppm	28.9951 ppm	0.9332 ppm	0.6027 ppm
Concentration per Run 1	148.5295 ppm	3.7561 ppm	0.9390 ppm	11.8142 ppm	29.4152 ppm	0.9348 ppm	0.6087 ppm
Concentration per Run 2	146.2295 ppm	3.7639 ppm	0.9382 ppm	11.7862 ppm	28.9855 ppm	0.9319 ppm	0.6059 ppm
Concentration per Run 3	144.5914 ppm	3.7659 ppm	0.9363 ppm	11.8421 ppm	28.5847 ppm	0.9327 ppm	0.5935 ppm
Concentration RSD	1.4 %	0.1 %	0.1 %	0.2 %	1.4 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1001 ppm	6.8485 ppm	1.1194 ppm	1.3846 ppm	1.9309 ppm	0.1193 ppm	0.5641 ppm
Concentration per Run 1	0.0989 ppm	6.9499 ppm	1.1276 ppm	1.3786 ppm	1.9597 ppm	0.1187 ppm	0.5720 ppm
Concentration per Run 2	0.1024 ppm	6.8453 ppm	1.1206 ppm	1.3913 ppm	1.9286 ppm	0.1196 ppm	0.5632 ppm
Concentration per Run 3	0.0990 ppm	6.7504 ppm	1.1101 ppm	1.3838 ppm	1.9044 ppm	0.1198 ppm	0.5570 ppm
Concentration RSD	2.0 %	1.5 %	0.8 %	0.5 %	1.4 %	0.5 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2685 ppm	97.4038 %	102.7717 %	86.4416 %	103.0710 %	111.7438 %	101.3329 %
Concentration per Run 1	3.3172 ppm	96.3192 %	103.1757 %	86.4005 %	101.8332 %	112.4652 %	101.0722 %
Concentration per Run 2	3.2666 ppm	97.7077 %	102.9633 %	86.4683 %	103.4587 %	111.7036 %	101.6552 %
Concentration per Run 3	3.2216 ppm	98.1845 %	102.1763 %	86.4560 %	103.9211 %	111.0626 %	101.2713 %
Concentration RSD	1.5 %	1.0 %	0.5 %	0.0 %	1.1 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-6D10 WG1936048
Analysis started at: 6/19/2024 10:03:44 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	8.6170 ppm	0.0055 ppm	0.0101 ppm	0.4185 ppm	0.0003 ppm	95.0405 ppm
Concentration per Run 1	0.0008 ppm	8.6272 ppm	0.0049 ppm	0.0103 ppm	0.4170 ppm	0.0003 ppm	95.0354 ppm
Concentration per Run 2	0.0005 ppm	8.6049 ppm	0.0056 ppm	0.0097 ppm	0.4185 ppm	0.0003 ppm	95.0186 ppm
Concentration per Run 3	0.0007 ppm	8.6189 ppm	0.0058 ppm	0.0103 ppm	0.4199 ppm	0.0003 ppm	95.0674 ppm
Concentration RSD	27.0 %	0.1 %	8.4 %	3.3 %	0.3 %	15.3 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0051 ppm	1.3274 ppm	0.0810 ppm	2.2248 ppm	37.0756 ppm	0.8435 ppm	0.3433 ppm
Concentration per Run 1	0.0052 ppm	1.3519 ppm	0.0829 ppm	2.2717 ppm	36.9865 ppm	0.8459 ppm	0.3430 ppm
Concentration per Run 2	0.0051 ppm	1.3225 ppm	0.0803 ppm	2.2182 ppm	37.0508 ppm	0.8381 ppm	0.3427 ppm
Concentration per Run 3	0.0050 ppm	1.3076 ppm	0.0799 ppm	2.1847 ppm	37.1897 ppm	0.8465 ppm	0.3441 ppm
Concentration RSD	1.5 %	1.7 %	2.0 %	2.0 %	0.3 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.8203 ppm	0.7066 ppm	0.0062 ppm	0.2987 ppm	6.4163 ppm	0.0812 ppm	0.0274 ppm
Concentration per Run 1	30.4040 ppm	0.7072 ppm	0.0069 ppm	0.2987 ppm	6.5629 ppm	0.0829 ppm	0.0276 ppm
Concentration per Run 2	29.6638 ppm	0.7065 ppm	0.0058 ppm	0.2984 ppm	6.3917 ppm	0.0796 ppm	0.0278 ppm
Concentration per Run 3	29.3931 ppm	0.7062 ppm	0.0061 ppm	0.2989 ppm	6.2944 ppm	0.0813 ppm	0.0267 ppm
Concentration RSD	1.8 %	0.1 %	9.1 %	0.1 %	2.1 %	2.0 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	1.2040 ppm	0.0457 ppm	0.0926 ppm	0.2054 ppm	-0.0003 ppm	0.0196 ppm
Concentration per Run 1	-0.0014 ppm	1.2152 ppm	0.0459 ppm	0.0923 ppm	0.2094 ppm	-0.0007 ppm	0.0201 ppm
Concentration per Run 2	-0.0025 ppm	1.2180 ppm	0.0465 ppm	0.0928 ppm	0.2065 ppm	-0.0005 ppm	0.0196 ppm
Concentration per Run 3	-0.0033 ppm	1.1787 ppm	0.0447 ppm	0.0928 ppm	0.2002 ppm	0.0004 ppm	0.0192 ppm
Concentration RSD	40.1 %	1.8 %	2.0 %	0.3 %	2.3 %	214.8 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6393 ppm	97.8143 %	102.2658 %	96.3187 %	96.8213 %	102.6340 %	98.6754 %
Concentration per Run 1	0.6533 ppm	96.4076 %	102.8937 %	95.8029 %	95.8076 %	103.6989 %	98.6557 %
Concentration per Run 2	0.6369 ppm	98.2697 %	102.1214 %	96.7006 %	97.2674 %	102.2285 %	98.8227 %
Concentration per Run 3	0.6278 ppm	98.7656 %	101.7821 %	96.4528 %	97.3890 %	101.9748 %	98.5477 %
Concentration RSD	2.0 %	1.3 %	0.6 %	0.5 %	0.9 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 10:07:47 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5031 ppm	0.4928 ppm	0.4847 ppm	0.4957 ppm	0.5035 ppm	0.5089 ppm	0.4948 ppm
Concentration per Run 1	0.5094 ppm	0.4913 ppm	0.4823 ppm	0.4998 ppm	0.5058 ppm	0.5097 ppm	0.4947 ppm
Concentration per Run 2	0.5007 ppm	0.4996 ppm	0.4850 ppm	0.4916 ppm	0.5025 ppm	0.5080 ppm	0.4939 ppm
Concentration per Run 3	0.4993 ppm	0.4874 ppm	0.4867 ppm	0.4958 ppm	0.5022 ppm	0.5090 ppm	0.4959 ppm
Recovery Percentage 1	100.628 %	98.554 %	96.934 %	99.142 %	100.697 %	101.774 %	98.960 %
Concentration RSD	1.1 %	1.3 %	0.5 %	0.8 %	0.4 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5035 ppm	0.5099 ppm	0.4965 ppm	0.4892 ppm	0.5119 ppm	5.4129 ppm	0.5086 ppm
Concentration per Run 1	0.5073 ppm	0.5142 ppm	0.5017 ppm	0.4947 ppm	0.5176 ppm	5.4533 ppm	0.5113 ppm
Concentration per Run 2	0.5014 ppm	0.5094 ppm	0.4922 ppm	0.4867 ppm	0.5077 ppm	5.4218 ppm	0.5092 ppm
Concentration per Run 3	0.5019 ppm	0.5061 ppm	0.4957 ppm	0.4863 ppm	0.5105 ppm	5.3636 ppm	0.5054 ppm
Recovery Percentage 1	100.705 %	101.983 %	99.305 %	97.849 %	102.387 %	108.258 %	101.727 %
Concentration RSD	0.7 %	0.8 %	1.0 %	1.0 %	1.0 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4932 ppm	0.4998 ppm	0.5004 ppm	10.4863 ppm	0.5115 ppm	0.4920 ppm	0.4913 ppm
Concentration per Run 1	0.4975 ppm	0.4992 ppm	0.4989 ppm	10.4752 ppm	0.5162 ppm	0.4910 ppm	0.4907 ppm
Concentration per Run 2	0.4915 ppm	0.4998 ppm	0.4986 ppm	10.4556 ppm	0.5067 ppm	0.4909 ppm	0.4911 ppm
Concentration per Run 3	0.4906 ppm	0.5004 ppm	0.5036 ppm	10.5282 ppm	0.5115 ppm	0.4942 ppm	0.4920 ppm
Recovery Percentage 1	98.640 %	99.956 %	100.072 %	104.863 %	102.296 %	98.408 %	98.257 %
Concentration RSD	0.8 %	0.1 %	0.6 %	0.4 %	0.9 %	0.4 %	0.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4893 ppm	5.2114 ppm	0.5240 ppm	0.5025 ppm	0.5021 ppm	0.4843 ppm	0.4967 ppm
Concentration per Run 1	0.4880 ppm	5.2605 ppm	0.5260 ppm	0.5038 ppm	0.5083 ppm	0.4845 ppm	0.5026 ppm
Concentration per Run 2	0.4916 ppm	5.1748 ppm	0.5208 ppm	0.5024 ppm	0.5002 ppm	0.4865 ppm	0.4954 ppm
Concentration per Run 3	0.4883 ppm	5.1990 ppm	0.5253 ppm	0.5013 ppm	0.4979 ppm	0.4819 ppm	0.4921 ppm
Recovery Percentage 1	97.855 %	99.266 %	104.808 %	100.509 %	100.423 %	96.866 %	99.340 %
Concentration RSD	0.4 %	0.8 %	0.5 %	0.2 %	1.1 %	0.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5116 ppm	100.5235 %	101.9752 %	99.9672 %	95.1264 %	98.6971 %	97.4314 %
Concentration per Run 1	0.5152 ppm	99.9680 %	102.0875 %	100.2175 %	94.3485 %	98.6686 %	97.4688 %
Concentration per Run 2	0.5078 ppm	100.8073 %	101.4510 %	99.9740 %	95.2907 %	98.1633 %	97.4169 %
Concentration per Run 3	0.5119 ppm	100.7952 %	102.3870 %	99.7101 %	95.7398 %	99.2595 %	97.4084 %
Recovery Percentage 1	102.326 %						
Concentration RSD	0.7 %	0.5 %	0.5 %	0.3 %	0.7 %	0.6 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 10:11:43 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0014 ppm	0.0005 ppm	0.0013 ppm	-0.0003 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	-0.0001 ppm	-0.0080 ppm	0.0008 ppm	0.0010 ppm	-0.0003 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	-0.0029 ppm	0.0005 ppm	0.0015 ppm	-0.0003 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 3	0.0003 ppm	0.0066 ppm	0.0002 ppm	0.0015 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-1.358 %	-1.405 %	16.635 %	4.379 %	-3.131 %	0.642 %	-1.506 %
Concentration RSD	369.4 %	528.9 %	55.9 %	21.6 %	8.4 %	47.1 %	119.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0049 ppm	-0.0043 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0009 ppm	0.0063 ppm	-0.0086 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	-0.0005 ppm	0.0004 ppm	0.0040 ppm	-0.0167 ppm	-0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0003 ppm	0.0045 ppm	0.0123 ppm	-0.0001 ppm
Recovery Percentage 1	0.809 %	0.924 %	-4.162 %	5.305 %	9.873 %	-0.173 %	-1.226 %
Concentration RSD	241.2 %	247.8 %	10.8 %	62.1 %	24.0 %	345.9 %	612.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0009 ppm	0.0116 ppm	0.0004 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.0001 ppm	0.0017 ppm	0.0075 ppm	0.0003 ppm	-0.0016 ppm	-0.0017 ppm
Concentration per Run 2	-0.0019 ppm	0.0000 ppm	0.0006 ppm	0.0191 ppm	0.0008 ppm	-0.0011 ppm	-0.0019 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0081 ppm	0.0001 ppm	-0.0020 ppm	0.0035 ppm
Recovery Percentage 1	-1.327 %	0.284 %	1.886 %	0.579 %	1.722 %	-15.495 %	-0.084 %
Concentration RSD	74.3 %	331.0 %	65.7 %	56.5 %	83.0 %	29.2 %	7,249.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0024 ppm	-0.0011 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 1	-0.0014 ppm	0.0016 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0011 ppm	-0.0004 ppm
Concentration per Run 2	-0.0022 ppm	0.0009 ppm	-0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 3	-0.0010 ppm	0.0047 ppm	-0.0014 ppm	-0.0001 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	-15.470 %	0.483 %	-2.285 %	0.100 %	-0.940 %	-4.883 %	-3.201 %
Concentration RSD	40.6 %	82.7 %	34.8 %	1,215.9 %	202.1 %	48.9 %	21.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	95.2431 %	98.3235 %	96.3803 %	96.4408 %	99.3841 %	98.3590 %
Concentration per Run 1	0.0005 ppm	92.8131 %	98.3082 %	96.2233 %	94.7450 %	99.8717 %	98.5294 %
Concentration per Run 2	0.0004 ppm	96.0593 %	98.1045 %	95.8263 %	97.0895 %	98.9810 %	97.8990 %
Concentration per Run 3	0.0002 ppm	96.8568 %	98.5577 %	97.0913 %	97.4879 %	99.2994 %	98.6487 %
Recovery Percentage 1	7.652 %						
Concentration RSD	36.8 %	2.2 %	0.2 %	0.7 %	1.5 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: SIC 50 Ni As-
Analysis started at: 6/19/2024 10:23:51 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0070 ppm	0.0013 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 1	0.0001 ppm	-0.0080 ppm	0.0035 ppm	-0.0005 ppm	-0.0004 ppm	0.0001 ppm	0.0082 ppm
Concentration per Run 2	0.0001 ppm	-0.0090 ppm	-0.0002 ppm	0.0004 ppm	-0.0006 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 3	0.0003 ppm	-0.0041 ppm	0.0005 ppm	0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0020 ppm
Concentration RSD	81.3 %	37.2 %	156.6 %	254.8 %	34.5 %	152.6 %	58.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0057 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	-0.0109 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0053 ppm	-0.0003 ppm	0.0005 ppm	-0.0012 ppm	-0.0217 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0059 ppm	-0.0001 ppm	0.0006 ppm	0.0022 ppm	-0.0043 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0058 ppm	0.0001 ppm	0.0001 ppm	0.0025 ppm	-0.0068 ppm	-0.0008 ppm
Concentration RSD	976.1 %	5.6 %	243.7 %	73.5 %	175.7 %	86.1 %	258.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0124 ppm	52.7770 ppm	0.0028 ppm	-0.0070 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	-0.0005 ppm	0.0057 ppm	53.8686 ppm	0.0022 ppm	-0.0091 ppm
Concentration per Run 2	0.0015 ppm	0.0003 ppm	-0.0005 ppm	0.0231 ppm	52.5237 ppm	0.0032 ppm	-0.0047 ppm
Concentration per Run 3	-0.0013 ppm	0.0000 ppm	-0.0007 ppm	0.0084 ppm	51.9388 ppm	0.0029 ppm	-0.0073 ppm
Concentration RSD	1,375.7 %	111.2 %	21.3 %	76.0 %	1.9 %	19.0 %	31.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0036 ppm	0.0018 ppm	-0.0019 ppm	0.0001 ppm	-0.0008 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 1	-0.0033 ppm	0.0029 ppm	-0.0016 ppm	0.0002 ppm	-0.0007 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0040 ppm	0.0029 ppm	-0.0018 ppm	0.0002 ppm	-0.0006 ppm	-0.0027 ppm	0.0005 ppm
Concentration per Run 3	-0.0034 ppm	-0.0003 ppm	-0.0024 ppm	0.0000 ppm	-0.0012 ppm	0.0001 ppm	0.0000 ppm
Concentration RSD	10.9 %	100.4 %	21.6 %	102.6 %	43.6 %	124.2 %	137.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	95.5066 %	98.6559 %	96.2822 %	96.2340 %	99.8738 %	97.9375 %
Concentration per Run 1	0.0009 ppm	93.8125 %	99.1080 %	96.1239 %	95.2107 %	100.7228 %	98.2340 %
Concentration per Run 2	0.0012 ppm	96.2308 %	98.0931 %	96.4268 %	96.9118 %	99.3043 %	97.7690 %
Concentration per Run 3	0.0008 ppm	96.4767 %	98.7664 %	96.2958 %	96.5793 %	99.5942 %	97.8095 %
Concentration RSD	17.2 %	1.5 %	0.5 %	0.2 %	0.9 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432886-02D2 WG1936048
Analysis started at: 6/19/2024 10:39:48 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	23.0650 ppm	0.0649 ppm	0.0264 ppm	0.2118 ppm	0.0015 ppm	84.3942 ppm
Concentration per Run 1	-0.0001 ppm	23.0995 ppm	0.0652 ppm	0.0282 ppm	0.2115 ppm	0.0014 ppm	84.5684 ppm
Concentration per Run 2	-0.0005 ppm	23.0144 ppm	0.0645 ppm	0.0260 ppm	0.2122 ppm	0.0015 ppm	84.1076 ppm
Concentration per Run 3	-0.0009 ppm	23.0812 ppm	0.0651 ppm	0.0250 ppm	0.2119 ppm	0.0015 ppm	84.5067 ppm
Concentration RSD	82.8 %	0.2 %	0.6 %	6.2 %	0.2 %	1.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0027 ppm	0.0095 ppm	0.0968 ppm	0.1043 ppm	108.4517 ppm	4.2633 ppm	0.0162 ppm
Concentration per Run 1	0.0027 ppm	0.0092 ppm	0.0982 ppm	0.1046 ppm	108.3797 ppm	4.3038 ppm	0.0169 ppm
Concentration per Run 2	0.0028 ppm	0.0097 ppm	0.0958 ppm	0.1042 ppm	108.3021 ppm	4.2512 ppm	0.0170 ppm
Concentration per Run 3	0.0027 ppm	0.0095 ppm	0.0962 ppm	0.1041 ppm	108.6735 ppm	4.2349 ppm	0.0147 ppm
Concentration RSD	2.2 %	2.2 %	1.3 %	0.3 %	0.2 %	0.8 %	8.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.2011 ppm	0.5118 ppm	0.0042 ppm	1.1288 ppm	0.0298 ppm	0.5047 ppm	0.0059 ppm
Concentration per Run 1	43.4896 ppm	0.5118 ppm	0.0040 ppm	1.1273 ppm	0.0310 ppm	0.5039 ppm	0.0049 ppm
Concentration per Run 2	43.0576 ppm	0.5109 ppm	0.0042 ppm	1.1223 ppm	0.0300 ppm	0.5030 ppm	0.0062 ppm
Concentration per Run 3	43.0560 ppm	0.5125 ppm	0.0045 ppm	1.1369 ppm	0.0284 ppm	0.5072 ppm	0.0065 ppm
Concentration RSD	0.6 %	0.2 %	6.0 %	0.7 %	4.5 %	0.4 %	14.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	6.1937 ppm	0.0164 ppm	0.1239 ppm	0.3508 ppm	0.0006 ppm	0.1281 ppm
Concentration per Run 1	0.0029 ppm	6.2311 ppm	0.0162 ppm	0.1237 ppm	0.3521 ppm	0.0003 ppm	0.1291 ppm
Concentration per Run 2	-0.0032 ppm	6.1692 ppm	0.0166 ppm	0.1237 ppm	0.3519 ppm	0.0001 ppm	0.1278 ppm
Concentration per Run 3	-0.0033 ppm	6.1808 ppm	0.0165 ppm	0.1244 ppm	0.3485 ppm	0.0015 ppm	0.1276 ppm
Concentration RSD	297.9 %	0.5 %	1.5 %	0.3 %	0.6 %	116.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6351 ppm	101.1640 %	103.9521 %	96.9768 %	99.3124 %	104.5121 %	100.8714 %
Concentration per Run 1	0.6390 ppm	100.3931 %	103.7915 %	97.1850 %	98.8277 %	104.9238 %	100.9159 %
Concentration per Run 2	0.6303 ppm	101.6147 %	104.4226 %	97.0924 %	99.6457 %	104.5493 %	100.9310 %
Concentration per Run 3	0.6359 ppm	101.4843 %	103.6421 %	96.6529 %	99.4637 %	104.0632 %	100.7674 %
Concentration RSD	0.7 %	0.7 %	0.4 %	0.3 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432938-01D2 WG1936048
Analysis started at: 6/19/2024 10:43:50 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	86.1251 ppm	0.1122 ppm	0.0334 ppm	0.9187 ppm	0.0060 ppm	162.8163 ppm
Concentration per Run 1	-0.0003 ppm	86.0472 ppm	0.1140 ppm	0.0344 ppm	0.9208 ppm	0.0060 ppm	163.0241 ppm
Concentration per Run 2	-0.0001 ppm	86.2967 ppm	0.1126 ppm	0.0325 ppm	0.9202 ppm	0.0060 ppm	163.1695 ppm
Concentration per Run 3	-0.0003 ppm	86.0315 ppm	0.1099 ppm	0.0333 ppm	0.9152 ppm	0.0060 ppm	162.2551 ppm
Concentration RSD	64.6 %	0.2 %	1.9 %	2.9 %	0.3 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0049 ppm	0.0930 ppm	0.1310 ppm	0.1814 ppm	192.7026 ppm	10.9953 ppm	0.0844 ppm
Concentration per Run 1	0.0050 ppm	0.0949 ppm	0.1336 ppm	0.1840 ppm	192.8827 ppm	11.0354 ppm	0.0855 ppm
Concentration per Run 2	0.0049 ppm	0.0927 ppm	0.1303 ppm	0.1808 ppm	193.1877 ppm	10.9895 ppm	0.0829 ppm
Concentration per Run 3	0.0048 ppm	0.0913 ppm	0.1293 ppm	0.1794 ppm	192.0376 ppm	10.9610 ppm	0.0847 ppm
Concentration RSD	2.1 %	2.0 %	1.7 %	1.3 %	0.3 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	89.4056 ppm	6.0823 ppm	0.0238 ppm	0.3671 ppm	0.2479 ppm	0.3700 ppm	0.0160 ppm
Concentration per Run 1	90.6734 ppm	6.0933 ppm	0.0236 ppm	0.3672 ppm	0.2530 ppm	0.3712 ppm	0.0177 ppm
Concentration per Run 2	89.2209 ppm	6.0881 ppm	0.0238 ppm	0.3692 ppm	0.2460 ppm	0.3696 ppm	0.0157 ppm
Concentration per Run 3	88.3226 ppm	6.0656 ppm	0.0239 ppm	0.3649 ppm	0.2447 ppm	0.3693 ppm	0.0146 ppm
Concentration RSD	1.3 %	0.2 %	0.6 %	0.6 %	1.8 %	0.3 %	9.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	6.8708 ppm	0.0048 ppm	0.1527 ppm	0.4776 ppm	0.0052 ppm	0.2235 ppm
Concentration per Run 1	0.0003 ppm	6.9520 ppm	0.0050 ppm	0.1531 ppm	0.4863 ppm	0.0046 ppm	0.2264 ppm
Concentration per Run 2	0.0017 ppm	6.8859 ppm	0.0054 ppm	0.1528 ppm	0.4761 ppm	0.0050 ppm	0.2233 ppm
Concentration per Run 3	0.0015 ppm	6.7746 ppm	0.0041 ppm	0.1522 ppm	0.4704 ppm	0.0059 ppm	0.2210 ppm
Concentration RSD	66.9 %	1.3 %	13.2 %	0.3 %	1.7 %	12.9 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6353 ppm	101.5028 %	106.8294 %	93.8497 %	129.0431 %	139.3753 %	130.2551 %
Concentration per Run 1	1.6613 ppm	100.9521 %	106.7730 %	93.9462 %	128.1194 %	139.4205 %	130.7114 %
Concentration per Run 2	1.6345 ppm	101.4355 %	106.6617 %	93.4160 %	129.3069 %	139.2648 %	129.9112 %
Concentration per Run 3	1.6101 ppm	102.1208 %	107.0536 %	94.1869 %	129.7029 %	139.4408 %	130.1425 %
Concentration RSD	1.6 %	0.6 %	0.2 %	0.4 %	0.6 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432938-03D2 WG1936048
Analysis started at: 6/19/2024 10:47:46 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	88.6965 ppm	0.0916 ppm	0.0140 ppm	0.8135 ppm	0.0059 ppm	29.9034 ppm
Concentration per Run 1	-0.0002 ppm	89.1811 ppm	0.0911 ppm	0.0145 ppm	0.8186 ppm	0.0059 ppm	30.0286 ppm
Concentration per Run 2	0.0002 ppm	88.6387 ppm	0.0919 ppm	0.0146 ppm	0.8196 ppm	0.0059 ppm	29.8980 ppm
Concentration per Run 3	-0.0004 ppm	88.2696 ppm	0.0918 ppm	0.0131 ppm	0.8022 ppm	0.0058 ppm	29.7835 ppm
Concentration RSD	192.1 %	0.5 %	0.5 %	6.1 %	1.2 %	1.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0672 ppm	0.1237 ppm	0.1406 ppm	174.9757 ppm	7.2476 ppm	0.0653 ppm
Concentration per Run 1	0.0021 ppm	0.0677 ppm	0.1255 ppm	0.1428 ppm	175.4653 ppm	7.3174 ppm	0.0665 ppm
Concentration per Run 2	0.0020 ppm	0.0669 ppm	0.1238 ppm	0.1404 ppm	175.8752 ppm	7.2506 ppm	0.0646 ppm
Concentration per Run 3	0.0019 ppm	0.0670 ppm	0.1217 ppm	0.1387 ppm	173.5867 ppm	7.1747 ppm	0.0647 ppm
Concentration RSD	3.0 %	0.6 %	1.5 %	1.5 %	0.7 %	1.0 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.5346 ppm	3.4461 ppm	0.0170 ppm	0.3310 ppm	0.1876 ppm	0.1640 ppm	0.0053 ppm
Concentration per Run 1	24.9401 ppm	3.4649 ppm	0.0169 ppm	0.3326 ppm	0.1897 ppm	0.1645 ppm	0.0056 ppm
Concentration per Run 2	24.4476 ppm	3.4434 ppm	0.0166 ppm	0.3320 ppm	0.1867 ppm	0.1645 ppm	0.0036 ppm
Concentration per Run 3	24.2160 ppm	3.4299 ppm	0.0177 ppm	0.3285 ppm	0.1863 ppm	0.1631 ppm	0.0066 ppm
Concentration RSD	1.5 %	0.5 %	3.4 %	0.7 %	1.0 %	0.5 %	29.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	7.6902 ppm	0.0077 ppm	0.0770 ppm	0.5204 ppm	0.0046 ppm	0.2265 ppm
Concentration per Run 1	-0.0002 ppm	7.8400 ppm	0.0093 ppm	0.0779 ppm	0.5283 ppm	0.0041 ppm	0.2310 ppm
Concentration per Run 2	-0.0001 ppm	7.6771 ppm	0.0072 ppm	0.0770 ppm	0.5183 ppm	0.0045 ppm	0.2253 ppm
Concentration per Run 3	0.0017 ppm	7.5534 ppm	0.0065 ppm	0.0761 ppm	0.5145 ppm	0.0051 ppm	0.2232 ppm
Concentration RSD	229.8 %	1.9 %	19.4 %	1.2 %	1.4 %	11.2 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6248 ppm	104.0883 %	106.8621 %	98.7333 %	131.4947 %	137.8839 %	133.5121 %
Concentration per Run 1	0.6339 ppm	103.2799 %	107.7605 %	98.4466 %	130.7811 %	139.2203 %	133.6005 %
Concentration per Run 2	0.6217 ppm	104.5229 %	106.6265 %	98.6523 %	131.8948 %	137.7408 %	133.3314 %
Concentration per Run 3	0.6187 ppm	104.4619 %	106.1992 %	99.1009 %	131.8082 %	136.6908 %	133.6045 %
Concentration RSD	1.3 %	0.7 %	0.8 %	0.3 %	0.5 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432974-01D2 WG1936048
Analysis started at: 6/19/2024 10:51:42 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	73.1667 ppm	0.0165 ppm	0.0088 ppm	0.6660 ppm	0.0036 ppm	10.8327 ppm
Concentration per Run 1	0.0001 ppm	73.4572 ppm	0.0165 ppm	0.0084 ppm	0.6713 ppm	0.0036 ppm	10.9051 ppm
Concentration per Run 2	-0.0002 ppm	73.2343 ppm	0.0165 ppm	0.0093 ppm	0.6613 ppm	0.0035 ppm	10.8252 ppm
Concentration per Run 3	0.0000 ppm	72.8084 ppm	0.0164 ppm	0.0088 ppm	0.6656 ppm	0.0036 ppm	10.7677 ppm
Concentration RSD	619.1 %	0.5 %	0.2 %	5.2 %	0.7 %	2.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0077 ppm	0.0279 ppm	0.0834 ppm	0.7321 ppm	102.7919 ppm	2.3526 ppm	0.0808 ppm
Concentration per Run 1	0.0077 ppm	0.0285 ppm	0.0851 ppm	0.7483 ppm	103.4003 ppm	2.3866 ppm	0.0836 ppm
Concentration per Run 2	0.0078 ppm	0.0282 ppm	0.0829 ppm	0.7271 ppm	102.4823 ppm	2.3308 ppm	0.0805 ppm
Concentration per Run 3	0.0076 ppm	0.0272 ppm	0.0820 ppm	0.7207 ppm	102.4931 ppm	2.3403 ppm	0.0782 ppm
Concentration RSD	1.2 %	2.4 %	1.9 %	2.0 %	0.5 %	1.3 %	3.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.8259 ppm	0.5923 ppm	0.0016 ppm	0.4960 ppm	0.0739 ppm	0.2821 ppm	0.0032 ppm
Concentration per Run 1	12.0482 ppm	0.5960 ppm	0.0015 ppm	0.4991 ppm	0.0758 ppm	0.2814 ppm	0.0027 ppm
Concentration per Run 2	11.8033 ppm	0.5922 ppm	0.0018 ppm	0.4984 ppm	0.0733 ppm	0.2849 ppm	0.0063 ppm
Concentration per Run 3	11.6263 ppm	0.5887 ppm	0.0014 ppm	0.4905 ppm	0.0725 ppm	0.2802 ppm	0.0006 ppm
Concentration RSD	1.8 %	0.6 %	13.6 %	1.0 %	2.4 %	0.9 %	90.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	7.5182 ppm	0.0092 ppm	0.1389 ppm	0.5222 ppm	0.0022 ppm	0.1471 ppm
Concentration per Run 1	0.0003 ppm	7.6690 ppm	0.0102 ppm	0.1398 ppm	0.5392 ppm	0.0015 ppm	0.1496 ppm
Concentration per Run 2	0.0027 ppm	7.5213 ppm	0.0091 ppm	0.1384 ppm	0.5152 ppm	0.0041 ppm	0.1464 ppm
Concentration per Run 3	0.0006 ppm	7.3642 ppm	0.0084 ppm	0.1384 ppm	0.5122 ppm	0.0008 ppm	0.1452 ppm
Concentration RSD	110.4 %	2.0 %	9.9 %	0.6 %	2.8 %	80.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.9932 ppm	102.2882 %	106.2356 %	99.4164 %	115.0661 %	121.1619 %	117.4484 %
Concentration per Run 1	3.0575 ppm	100.9802 %	106.6892 %	99.8717 %	114.3013 %	121.6958 %	117.9529 %
Concentration per Run 2	2.9713 ppm	102.5125 %	105.9210 %	99.2682 %	115.1620 %	120.9895 %	117.3045 %
Concentration per Run 3	2.9509 ppm	103.3718 %	106.0965 %	99.1091 %	115.7352 %	120.8004 %	117.0878 %
Concentration RSD	1.9 %	1.2 %	0.4 %	0.4 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-01D2 WG1936048
Analysis started at: 6/19/2024 10:55:38 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0780 ppm	3.8297 ppm	0.1118 ppm	0.0413 ppm	0.9087 ppm	0.0002 ppm	5.4130 ppm
Concentration per Run 1	0.0786 ppm	3.8407 ppm	0.1112 ppm	0.0423 ppm	0.9078 ppm	0.0001 ppm	5.4203 ppm
Concentration per Run 2	0.0779 ppm	3.8417 ppm	0.1108 ppm	0.0390 ppm	0.9051 ppm	0.0001 ppm	5.4089 ppm
Concentration per Run 3	0.0777 ppm	3.8068 ppm	0.1136 ppm	0.0425 ppm	0.9132 ppm	0.0002 ppm	5.4100 ppm
Concentration RSD	0.6 %	0.5 %	1.4 %	4.7 %	0.5 %	24.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0186 ppm	0.0096 ppm	1.1849 ppm	0.6156 ppm	72.3334 ppm	0.6547 ppm	0.0016 ppm
Concentration per Run 1	0.0187 ppm	0.0096 ppm	1.2001 ppm	0.6254 ppm	72.3238 ppm	0.6453 ppm	0.0026 ppm
Concentration per Run 2	0.0187 ppm	0.0101 ppm	1.1831 ppm	0.6121 ppm	72.1019 ppm	0.6324 ppm	0.0005 ppm
Concentration per Run 3	0.0185 ppm	0.0091 ppm	1.1715 ppm	0.6093 ppm	72.5745 ppm	0.6864 ppm	0.0018 ppm
Concentration RSD	0.6 %	5.2 %	1.2 %	1.4 %	0.3 %	4.3 %	67.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.9589 ppm	0.1895 ppm	0.0468 ppm	11.1128 ppm	0.2614 ppm	330.6093 ppm	3.6189 ppm
Concentration per Run 1	7.0630 ppm	0.1902 ppm	0.0469 ppm	11.1084 ppm	0.2642 ppm	330.5074 ppm	3.6666 ppm
Concentration per Run 2	6.9445 ppm	0.1887 ppm	0.0469 ppm	11.1195 ppm	0.2628 ppm	330.7311 ppm	3.6008 ppm
Concentration per Run 3	6.8692 ppm	0.1896 ppm	0.0467 ppm	11.1107 ppm	0.2571 ppm	330.5894 ppm	3.5893 ppm
Concentration RSD	1.4 %	0.4 %	0.3 %	0.1 %	1.4 %	0.0 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0765 ppm	2.0717 ppm	0.9318 ppm	0.0749 ppm	0.0915 ppm	-0.0012 ppm	0.1983 ppm
Concentration per Run 1	0.0747 ppm	2.0970 ppm	0.9455 ppm	0.0748 ppm	0.0937 ppm	-0.0016 ppm	0.2011 ppm
Concentration per Run 2	0.0790 ppm	2.0581 ppm	0.9279 ppm	0.0748 ppm	0.0906 ppm	-0.0003 ppm	0.1982 ppm
Concentration per Run 3	0.0757 ppm	2.0601 ppm	0.9221 ppm	0.0751 ppm	0.0904 ppm	-0.0016 ppm	0.1956 ppm
Concentration RSD	3.0 %	1.1 %	1.3 %	0.2 %	2.1 %	67.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7903 ppm	101.2875 %	103.9584 %	99.4622 %	97.0012 %	101.2793 %	97.6553 %
Concentration per Run 1	0.8040 ppm	99.6924 %	104.2255 %	99.3261 %	95.7403 %	101.6584 %	97.4757 %
Concentration per Run 2	0.7901 ppm	101.4080 %	104.1525 %	99.5892 %	97.0862 %	101.5117 %	97.9211 %
Concentration per Run 3	0.7767 ppm	102.7620 %	103.4973 %	99.4711 %	98.1773 %	100.6679 %	97.5692 %
Concentration RSD	1.7 %	1.5 %	0.4 %	0.1 %	1.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-02D2 WG1936048
Analysis started at: 6/19/2024 10:59:35 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.1459 ppm	6.6057 ppm	0.1751 ppm	0.0941 ppm	0.6127 ppm	0.0001 ppm	28.3825 ppm
Concentration per Run 1	0.1478 ppm	6.5931 ppm	0.1757 ppm	0.0947 ppm	0.6125 ppm	0.0002 ppm	28.3593 ppm
Concentration per Run 2	0.1449 ppm	6.6225 ppm	0.1760 ppm	0.0932 ppm	0.6139 ppm	0.0001 ppm	28.3715 ppm
Concentration per Run 3	0.1449 ppm	6.6014 ppm	0.1737 ppm	0.0942 ppm	0.6116 ppm	0.0001 ppm	28.4166 ppm
Concentration RSD	1.1 %	0.2 %	0.7 %	0.8 %	0.2 %	25.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0878 ppm	0.0355 ppm	2.0727 ppm	0.9757 ppm	89.2113 ppm	0.9367 ppm	0.0044 ppm
Concentration per Run 1	0.0891 ppm	0.0364 ppm	2.0987 ppm	0.9915 ppm	89.0569 ppm	0.9403 ppm	0.0056 ppm
Concentration per Run 2	0.0877 ppm	0.0351 ppm	2.0615 ppm	0.9695 ppm	89.2285 ppm	0.9324 ppm	0.0049 ppm
Concentration per Run 3	0.0866 ppm	0.0348 ppm	2.0578 ppm	0.9660 ppm	89.3484 ppm	0.9373 ppm	0.0028 ppm
Concentration RSD	1.4 %	2.4 %	1.1 %	1.4 %	0.2 %	0.4 %	32.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4835 ppm	0.7413 ppm	0.0618 ppm	24.4967 ppm	0.7660 ppm	551.9231 ppm	3.8604 ppm
Concentration per Run 1	20.7443 ppm	0.7406 ppm	0.0624 ppm	24.5579 ppm	0.7781 ppm	550.4088 ppm	3.9256 ppm
Concentration per Run 2	20.4018 ppm	0.7420 ppm	0.0616 ppm	24.4852 ppm	0.7596 ppm	554.9872 ppm	3.8495 ppm
Concentration per Run 3	20.3046 ppm	0.7412 ppm	0.0615 ppm	24.4469 ppm	0.7604 ppm	550.3734 ppm	3.8061 ppm
Concentration RSD	1.1 %	0.1 %	0.8 %	0.2 %	1.4 %	0.5 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1235 ppm	2.2250 ppm	2.6008 ppm	0.1542 ppm	0.1712 ppm	0.0052 ppm	0.8168 ppm
Concentration per Run 1	0.1238 ppm	2.2472 ppm	2.6346 ppm	0.1545 ppm	0.1725 ppm	0.0024 ppm	0.8282 ppm
Concentration per Run 2	0.1228 ppm	2.2341 ppm	2.5997 ppm	0.1545 ppm	0.1712 ppm	0.0064 ppm	0.8124 ppm
Concentration per Run 3	0.1240 ppm	2.1937 ppm	2.5682 ppm	0.1537 ppm	0.1700 ppm	0.0068 ppm	0.8097 ppm
Concentration RSD	0.5 %	1.3 %	1.3 %	0.3 %	0.7 %	47.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.4247 ppm	100.4128 %	103.1309 %	96.6111 %	95.4334 %	99.9576 %	94.8176 %
Concentration per Run 1	4.4974 ppm	99.4942 %	103.3170 %	96.7296 %	94.6016 %	100.2747 %	94.7299 %
Concentration per Run 2	4.3918 ppm	100.2646 %	103.4694 %	96.0218 %	95.3118 %	100.2501 %	94.4080 %
Concentration per Run 3	4.3850 ppm	101.4796 %	102.6063 %	97.0818 %	96.3869 %	99.3481 %	95.3150 %
Concentration RSD	1.4 %	1.0 %	0.4 %	0.6 %	0.9 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433059-03D2 WG1936048
Analysis started at: 6/19/2024 11:03:32 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0059 ppm	93.6569 ppm	0.0276 ppm	0.0927 ppm	6.1097 ppm	0.0085 ppm	21.2848 ppm
Concentration per Run 1	-0.0057 ppm	93.8237 ppm	0.0285 ppm	0.0909 ppm	6.0776 ppm	0.0086 ppm	21.2140 ppm
Concentration per Run 2	-0.0052 ppm	93.4459 ppm	0.0282 ppm	0.0933 ppm	6.1112 ppm	0.0085 ppm	21.3501 ppm
Concentration per Run 3	-0.0067 ppm	93.7010 ppm	0.0261 ppm	0.0940 ppm	6.1404 ppm	0.0084 ppm	21.2905 ppm
Concentration RSD	12.9 %	0.2 %	4.8 %	1.8 %	0.5 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0117 ppm	0.2604 ppm	0.2594 ppm	0.0984 ppm	345.8402 ppm	17.1644 ppm	0.6461 ppm
Concentration per Run 1	0.0116 ppm	0.2621 ppm	0.2615 ppm	0.0992 ppm	343.5556 ppm	17.2088 ppm	0.6416 ppm
Concentration per Run 2	0.0117 ppm	0.2599 ppm	0.2589 ppm	0.0978 ppm	346.8212 ppm	17.0487 ppm	0.6459 ppm
Concentration per Run 3	0.0117 ppm	0.2591 ppm	0.2578 ppm	0.0981 ppm	347.1436 ppm	17.2356 ppm	0.6509 ppm
Concentration RSD	0.5 %	0.6 %	0.7 %	0.8 %	0.6 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	82.5344 ppm	75.0782 ppm	0.0059 ppm	1.7058 ppm	0.6500 ppm	0.2767 ppm	0.0112 ppm
Concentration per Run 1	83.0877 ppm	75.0390 ppm	0.0063 ppm	1.7016 ppm	0.6538 ppm	0.2749 ppm	0.0069 ppm
Concentration per Run 2	82.1521 ppm	75.0596 ppm	0.0054 ppm	1.7186 ppm	0.6478 ppm	0.2758 ppm	0.0114 ppm
Concentration per Run 3	82.3633 ppm	75.1361 ppm	0.0059 ppm	1.6973 ppm	0.6486 ppm	0.2794 ppm	0.0152 ppm
Concentration RSD	0.6 %	0.1 %	7.4 %	0.7 %	0.5 %	0.9 %	36.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	4.5872 ppm	0.0063 ppm	0.2787 ppm	3.5456 ppm	0.0169 ppm	0.2422 ppm
Concentration per Run 1	-0.0016 ppm	4.6107 ppm	0.0065 ppm	0.2780 ppm	3.5780 ppm	0.0170 ppm	0.2443 ppm
Concentration per Run 2	-0.0001 ppm	4.5738 ppm	0.0066 ppm	0.2793 ppm	3.5260 ppm	0.0186 ppm	0.2403 ppm
Concentration per Run 3	-0.0019 ppm	4.5770 ppm	0.0059 ppm	0.2789 ppm	3.5329 ppm	0.0150 ppm	0.2419 ppm
Concentration RSD	83.4 %	0.4 %	5.5 %	0.2 %	0.8 %	10.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2334 ppm	114.0724 %	110.5017 %	100.3402 %	119.7875 %	121.2139 %	123.8412 %
Concentration per Run 1	1.2426 ppm	113.9203 %	111.3183 %	100.1861 %	119.6181 %	121.4561 %	123.4976 %
Concentration per Run 2	1.2299 ppm	114.6703 %	108.7094 %	100.2194 %	120.2389 %	119.7183 %	123.7098 %
Concentration per Run 3	1.2277 ppm	113.6265 %	111.4773 %	100.6153 %	119.5054 %	122.4673 %	124.3163 %
Concentration RSD	0.7 %	0.5 %	1.4 %	0.2 %	0.3 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433059-06D2 WG1936048
Analysis started at: 6/19/2024 11:07:29 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0036 ppm	95.4575 ppm	0.0307 ppm	0.1178 ppm	2.1365 ppm	0.0111 ppm	128.3495 ppm
Concentration per Run 1	-0.0035 ppm	95.5345 ppm	0.0299 ppm	0.1193 ppm	2.1451 ppm	0.0111 ppm	128.3150 ppm
Concentration per Run 2	-0.0039 ppm	95.3346 ppm	0.0300 ppm	0.1186 ppm	2.1539 ppm	0.0110 ppm	128.4459 ppm
Concentration per Run 3	-0.0035 ppm	95.5034 ppm	0.0323 ppm	0.1154 ppm	2.1104 ppm	0.0110 ppm	128.2875 ppm
Concentration RSD	6.8 %	0.1 %	4.5 %	1.8 %	1.1 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.1436 ppm	0.2277 ppm	0.1403 ppm	301.9159 ppm	19.3626 ppm	0.5051 ppm
Concentration per Run 1	0.0026 ppm	0.1442 ppm	0.2291 ppm	0.1419 ppm	304.7115 ppm	19.5229 ppm	0.5088 ppm
Concentration per Run 2	0.0024 ppm	0.1437 ppm	0.2287 ppm	0.1392 ppm	303.4149 ppm	19.4972 ppm	0.5058 ppm
Concentration per Run 3	0.0025 ppm	0.1431 ppm	0.2253 ppm	0.1397 ppm	297.6213 ppm	19.0678 ppm	0.5006 ppm
Concentration RSD	5.1 %	0.4 %	0.9 %	1.0 %	1.3 %	1.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	80.9464 ppm	21.4244 ppm	0.0056 ppm	2.4054 ppm	0.5230 ppm	0.2016 ppm	0.0084 ppm
Concentration per Run 1	81.7128 ppm	21.4900 ppm	0.0063 ppm	2.4077 ppm	0.5266 ppm	0.2029 ppm	0.0094 ppm
Concentration per Run 2	80.9784 ppm	21.4365 ppm	0.0046 ppm	2.4053 ppm	0.5246 ppm	0.2018 ppm	0.0084 ppm
Concentration per Run 3	80.1478 ppm	21.3468 ppm	0.0060 ppm	2.4033 ppm	0.5177 ppm	0.1999 ppm	0.0074 ppm
Concentration RSD	1.0 %	0.3 %	16.6 %	0.1 %	0.9 %	0.8 %	11.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	12.3007 ppm	0.0047 ppm	0.6251 ppm	3.6091 ppm	0.0068 ppm	0.2152 ppm
Concentration per Run 1	-0.0002 ppm	12.4325 ppm	0.0039 ppm	0.6267 ppm	3.6404 ppm	0.0055 ppm	0.2167 ppm
Concentration per Run 2	-0.0007 ppm	12.2484 ppm	0.0048 ppm	0.6259 ppm	3.6132 ppm	0.0075 ppm	0.2152 ppm
Concentration per Run 3	-0.0033 ppm	12.2212 ppm	0.0052 ppm	0.6226 ppm	3.5736 ppm	0.0075 ppm	0.2135 ppm
Concentration RSD	120.0 %	0.9 %	14.1 %	0.3 %	0.9 %	16.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0769 ppm	105.2247 %	103.2554 %	93.2723 %	142.3514 %	146.0656 %	145.9144 %
Concentration per Run 1	1.0839 ppm	105.0961 %	102.7635 %	93.4733 %	142.7416 %	145.3826 %	146.3910 %
Concentration per Run 2	1.0831 ppm	104.6831 %	102.7064 %	93.3478 %	141.0351 %	145.2670 %	146.2191 %
Concentration per Run 3	1.0639 ppm	105.8947 %	104.2964 %	92.9960 %	143.2774 %	147.5472 %	145.1331 %
Concentration RSD	1.0 %	0.6 %	0.9 %	0.3 %	0.8 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433059-07D2 WG1936048
Analysis started at: 6/19/2024 11:11:27 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0044 ppm	91.4669 ppm	0.0355 ppm	0.0936 ppm	2.8887 ppm	0.0170 ppm	29.8772 ppm
Concentration per Run 1	-0.0041 ppm	91.6072 ppm	0.0354 ppm	0.0951 ppm	2.8816 ppm	0.0170 ppm	29.8694 ppm
Concentration per Run 2	-0.0053 ppm	91.3344 ppm	0.0363 ppm	0.0922 ppm	2.8852 ppm	0.0169 ppm	29.8629 ppm
Concentration per Run 3	-0.0039 ppm	91.4592 ppm	0.0348 ppm	0.0935 ppm	2.8995 ppm	0.0171 ppm	29.8994 ppm
Concentration RSD	17.6 %	0.1 %	2.1 %	1.5 %	0.3 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0049 ppm	0.1265 ppm	0.2076 ppm	0.0853 ppm	312.8025 ppm	17.8684 ppm	0.5411 ppm
Concentration per Run 1	0.0050 ppm	0.1275 ppm	0.2096 ppm	0.0869 ppm	311.4683 ppm	17.9577 ppm	0.5451 ppm
Concentration per Run 2	0.0048 ppm	0.1268 ppm	0.2066 ppm	0.0840 ppm	312.0946 ppm	17.9169 ppm	0.5423 ppm
Concentration per Run 3	0.0050 ppm	0.1253 ppm	0.2066 ppm	0.0849 ppm	314.8444 ppm	17.7307 ppm	0.5359 ppm
Concentration RSD	2.7 %	0.9 %	0.8 %	1.7 %	0.6 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	87.6812 ppm	37.8519 ppm	0.0035 ppm	1.8237 ppm	0.6190 ppm	0.1808 ppm	0.0094 ppm
Concentration per Run 1	88.4268 ppm	37.8587 ppm	0.0036 ppm	1.8128 ppm	0.6228 ppm	0.1816 ppm	0.0083 ppm
Concentration per Run 2	87.3998 ppm	37.8319 ppm	0.0035 ppm	1.8341 ppm	0.6163 ppm	0.1801 ppm	0.0114 ppm
Concentration per Run 3	87.2171 ppm	37.8652 ppm	0.0034 ppm	1.8241 ppm	0.6180 ppm	0.1805 ppm	0.0087 ppm
Concentration RSD	0.7 %	0.0 %	2.8 %	0.6 %	0.5 %	0.4 %	18.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	5.4513 ppm	0.0036 ppm	0.2848 ppm	2.6952 ppm	0.0081 ppm	0.2238 ppm
Concentration per Run 1	-0.0006 ppm	5.4999 ppm	0.0041 ppm	0.2836 ppm	2.7163 ppm	0.0086 ppm	0.2247 ppm
Concentration per Run 2	-0.0014 ppm	5.4565 ppm	0.0035 ppm	0.2835 ppm	2.6856 ppm	0.0086 ppm	0.2236 ppm
Concentration per Run 3	0.0003 ppm	5.3976 ppm	0.0032 ppm	0.2874 ppm	2.6837 ppm	0.0072 ppm	0.2231 ppm
Concentration RSD	153.4 %	0.9 %	12.7 %	0.8 %	0.7 %	10.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3061 ppm	109.2522 %	107.3915 %	98.9112 %	**247.7782 %**	**253.7966 %**	**255.4218 %**
Concentration per Run 1	1.3135 ppm	108.8600 %	107.5569 %	98.7809 %	**247.2567 %**	**253.7698 %**	**255.1697 %**
Concentration per Run 2	1.3007 ppm	109.3903 %	107.5655 %	98.9419 %	**247.1304 %**	**254.5096 %**	**255.6626 %**
Concentration per Run 3	1.3042 ppm	109.5061 %	107.0522 %	99.0108 %	**248.9476 %**	**253.1106 %**	**255.4331 %**
Concentration RSD	0.5 %	0.3 %	0.3 %	0.1 %	**0.4 %**	**0.3 %**	**0.1 %**

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 11:15:26 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4852 ppm	0.4875 ppm	0.4904 ppm	0.4966 ppm	0.5061 ppm	0.4985 ppm
Concentration per Run 1	0.5094 ppm	0.4866 ppm	0.4908 ppm	0.4945 ppm	0.4965 ppm	0.5061 ppm	0.5014 ppm
Concentration per Run 2	0.5005 ppm	0.4806 ppm	0.4870 ppm	0.4921 ppm	0.4966 ppm	0.5056 ppm	0.4922 ppm
Concentration per Run 3	0.4974 ppm	0.4883 ppm	0.4846 ppm	0.4846 ppm	0.4968 ppm	0.5065 ppm	0.5018 ppm
Recovery Percentage 1	100.483 %	97.034 %	97.490 %	98.077 %	99.324 %	101.214 %	99.698 %
Concentration RSD	1.2 %	0.8 %	0.6 %	1.1 %	0.0 %	0.1 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5045 ppm	0.5070 ppm	0.4959 ppm	0.4898 ppm	0.5271 ppm	5.2658 ppm	0.4938 ppm
Concentration per Run 1	0.5088 ppm	0.5130 ppm	0.5017 ppm	0.4949 ppm	0.5279 ppm	5.2569 ppm	0.4939 ppm
Concentration per Run 2	0.5058 ppm	0.5078 ppm	0.4945 ppm	0.4896 ppm	0.5312 ppm	5.3031 ppm	0.4939 ppm
Concentration per Run 3	0.4990 ppm	0.5002 ppm	0.4914 ppm	0.4849 ppm	0.5221 ppm	5.2374 ppm	0.4935 ppm
Recovery Percentage 1	100.903 %	101.402 %	99.171 %	97.965 %	105.411 %	105.316 %	98.750 %
Concentration RSD	1.0 %	1.3 %	1.1 %	1.0 %	0.9 %	0.6 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4902 ppm	0.5037 ppm	0.4938 ppm	10.5845 ppm	0.5093 ppm	0.4931 ppm	0.4903 ppm
Concentration per Run 1	0.4971 ppm	0.5029 ppm	0.4925 ppm	10.6122 ppm	0.5108 ppm	0.4936 ppm	0.4972 ppm
Concentration per Run 2	0.4874 ppm	0.5028 ppm	0.4968 ppm	10.5659 ppm	0.5130 ppm	0.4914 ppm	0.4908 ppm
Concentration per Run 3	0.4860 ppm	0.5053 ppm	0.4920 ppm	10.5754 ppm	0.5042 ppm	0.4941 ppm	0.4830 ppm
Recovery Percentage 1	98.032 %	100.738 %	98.752 %	105.845 %	101.863 %	98.613 %	98.069 %
Concentration RSD	1.2 %	0.3 %	0.5 %	0.2 %	0.9 %	0.3 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4913 ppm	5.2322 ppm	0.5174 ppm	0.4999 ppm	0.5011 ppm	0.4937 ppm	0.4958 ppm
Concentration per Run 1	0.4940 ppm	5.2862 ppm	0.5225 ppm	0.4994 ppm	0.5077 ppm	0.4939 ppm	0.5025 ppm
Concentration per Run 2	0.4901 ppm	5.2388 ppm	0.5170 ppm	0.5005 ppm	0.5003 ppm	0.4961 ppm	0.4947 ppm
Concentration per Run 3	0.4898 ppm	5.1717 ppm	0.5127 ppm	0.5000 ppm	0.4953 ppm	0.4910 ppm	0.4903 ppm
Recovery Percentage 1	98.265 %	99.662 %	103.482 %	99.988 %	100.221 %	98.732 %	99.164 %
Concentration RSD	0.5 %	1.1 %	1.0 %	0.1 %	1.3 %	0.5 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5075 ppm	100.9924 %	101.4053 %	100.3887 %	96.0483 %	97.9576 %	97.8320 %
Concentration per Run 1	0.5126 ppm	99.8425 %	101.4270 %	100.2512 %	94.6607 %	98.0796 %	97.4640 %
Concentration per Run 2	0.5054 ppm	100.8689 %	101.6943 %	100.6404 %	96.1546 %	98.1575 %	98.1630 %
Concentration per Run 3	0.5046 ppm	102.2659 %	101.0947 %	100.2746 %	97.3295 %	97.6357 %	97.8690 %
Recovery Percentage 1	101.507 %						
Concentration RSD	0.9 %	1.2 %	0.3 %	0.2 %	1.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 11:19:23 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0056 ppm	-0.0010 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 1	-0.0007 ppm	-0.0070 ppm	-0.0030 ppm	-0.0008 ppm	-0.0005 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run 2	-0.0005 ppm	-0.0142 ppm	0.0012 ppm	0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 3	-0.0008 ppm	0.0044 ppm	-0.0012 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0032 ppm
Recovery Percentage 1	-9.583 %	-5.615 %	-32.838 %	-1.050 %	-5.180 %	1.497 %	4.117 %
Concentration RSD	18.1 %	166.5 %	216.5 %	148.4 %	5.1 %	101.6 %	44.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0009 ppm	0.0052 ppm	-0.0673 ppm	-0.0045 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0008 ppm	0.0053 ppm	-0.0650 ppm	-0.0032 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0009 ppm	0.0061 ppm	-0.0545 ppm	-0.0039 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0043 ppm	-0.0825 ppm	-0.0065 ppm
Recovery Percentage 1	1.369 %	2.521 %	0.783 %	8.601 %	10.485 %	-2.693 %	-45.248 %
Concentration RSD	78.8 %	21.3 %	182.9 %	8.1 %	16.8 %	21.0 %	37.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	-0.0001 ppm	0.0004 ppm	0.0152 ppm	-0.0001 ppm	-0.0007 ppm	-0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0158 ppm	0.0000 ppm	-0.0006 ppm	-0.0049 ppm
Concentration per Run 2	-0.0012 ppm	-0.0003 ppm	0.0005 ppm	0.0152 ppm	-0.0004 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	-0.0001 ppm	0.0004 ppm	0.0146 ppm	0.0000 ppm	-0.0007 ppm	-0.0019 ppm
Recovery Percentage 1	-0.577 %	-0.904 %	0.877 %	0.760 %	-0.553 %	-6.803 %	-4.476 %
Concentration RSD	113.3 %	205.1 %	6.5 %	3.8 %	186.6 %	18.7 %	113.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0041 ppm	-0.0013 ppm	-0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.0043 ppm	-0.0011 ppm	0.0000 ppm	-0.0001 ppm	-0.0022 ppm	0.0001 ppm
Concentration per Run 2	-0.0029 ppm	0.0034 ppm	-0.0009 ppm	-0.0001 ppm	0.0007 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	-0.0015 ppm	0.0044 ppm	-0.0019 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-15.072 %	0.810 %	-2.629 %	-0.709 %	2.445 %	-3.524 %	1.605 %
Concentration RSD	92.9 %	13.5 %	42.3 %	78.2 %	151.4 %	196.4 %	39.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	96.5827 %	99.1915 %	97.9872 %	97.5454 %	99.6317 %	99.2888 %
Concentration per Run 1	0.0010 ppm	94.6932 %	99.6457 %	97.9577 %	96.3636 %	100.3842 %	99.5044 %
Concentration per Run 2	0.0012 ppm	96.3319 %	99.1657 %	98.0678 %	97.3264 %	99.5511 %	99.4380 %
Concentration per Run 3	0.0012 ppm	98.7230 %	98.7633 %	97.9360 %	98.9461 %	98.9597 %	98.9238 %
Recovery Percentage 1	22.610 %						
Concentration RSD	8.6 %	2.1 %	0.4 %	0.1 %	1.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433061-01D2 WG1936048
Analysis started at: 6/19/2024 11:34:57 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	20.0509 ppm	0.0104 ppm	0.0172 ppm	1.2839 ppm	0.0009 ppm	57.8941 ppm
Concentration per Run 1	0.0032 ppm	19.9478 ppm	0.0099 ppm	0.0167 ppm	1.2805 ppm	0.0009 ppm	57.6806 ppm
Concentration per Run 2	0.0031 ppm	19.9973 ppm	0.0103 ppm	0.0167 ppm	1.2839 ppm	0.0009 ppm	57.7900 ppm
Concentration per Run 3	0.0033 ppm	20.2075 ppm	0.0110 ppm	0.0184 ppm	1.2872 ppm	0.0009 ppm	58.2117 ppm
Concentration RSD	3.0 %	0.7 %	5.6 %	5.7 %	0.3 %	2.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0131 ppm	0.1542 ppm	0.9522 ppm	105.1167 ppm	8.8036 ppm	0.0166 ppm
Concentration per Run 1	0.0028 ppm	0.0128 ppm	0.1498 ppm	0.9286 ppm	104.5439 ppm	8.8249 ppm	0.0190 ppm
Concentration per Run 2	0.0028 ppm	0.0130 ppm	0.1544 ppm	0.9546 ppm	105.1111 ppm	8.7976 ppm	0.0157 ppm
Concentration per Run 3	0.0030 ppm	0.0135 ppm	0.1585 ppm	0.9733 ppm	105.6950 ppm	8.7882 ppm	0.0152 ppm
Concentration RSD	5.6 %	2.7 %	2.8 %	2.4 %	0.5 %	0.2 %	12.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.1387 ppm	0.5645 ppm	0.0079 ppm	3.4684 ppm	0.1236 ppm	0.0694 ppm	0.0030 ppm
Concentration per Run 1	8.8923 ppm	0.5629 ppm	0.0077 ppm	3.4573 ppm	0.1200 ppm	0.0678 ppm	0.0026 ppm
Concentration per Run 2	9.1435 ppm	0.5639 ppm	0.0079 ppm	3.4628 ppm	0.1231 ppm	0.0706 ppm	-0.0007 ppm
Concentration per Run 3	9.3804 ppm	0.5667 ppm	0.0080 ppm	3.4849 ppm	0.1277 ppm	0.0699 ppm	0.0069 ppm
Concentration RSD	2.7 %	0.4 %	2.0 %	0.4 %	3.1 %	2.1 %	129.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0165 ppm	2.0034 ppm	0.0636 ppm	0.3562 ppm	0.2223 ppm	0.0008 ppm	0.0357 ppm
Concentration per Run 1	0.0157 ppm	1.9532 ppm	0.0615 ppm	0.3536 ppm	0.2158 ppm	0.0005 ppm	0.0348 ppm
Concentration per Run 2	0.0169 ppm	1.9992 ppm	0.0632 ppm	0.3564 ppm	0.2222 ppm	0.0010 ppm	0.0357 ppm
Concentration per Run 3	0.0169 ppm	2.0578 ppm	0.0661 ppm	0.3586 ppm	0.2288 ppm	0.0007 ppm	0.0366 ppm
Concentration RSD	4.1 %	2.6 %	3.7 %	0.7 %	2.9 %	30.9 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6513 ppm	124.3517 %	108.6895 %	108.1450 %	105.4519 %	103.8320 %	103.7744 %
Concentration per Run 1	1.5998 ppm	127.7687 %	108.4551 %	109.5290 %	105.2651 %	102.6829 %	103.8581 %
Concentration per Run 2	1.6530 ppm	124.2178 %	109.2780 %	108.2397 %	105.5032 %	104.6566 %	103.8151 %
Concentration per Run 3	1.7012 ppm	121.0687 %	108.3353 %	106.6664 %	105.5875 %	104.1564 %	103.6499 %
Concentration RSD	3.1 %	2.7 %	0.5 %	1.3 %	0.2 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433089-01D2 WG1936048
Analysis started at: 6/19/2024 11:39:06 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0019 ppm	68.1522 ppm	0.0458 ppm	0.0010 ppm	0.3190 ppm	0.0036 ppm	16.5374 ppm
Concentration per Run 1	-0.0018 ppm	67.3560 ppm	0.0471 ppm	0.0003 ppm	0.3157 ppm	0.0038 ppm	16.5538 ppm
Concentration per Run 2	-0.0022 ppm	67.3957 ppm	0.0446 ppm	0.0012 ppm	0.3152 ppm	0.0038 ppm	16.5976 ppm
Concentration per Run 3	-0.0018 ppm	69.7049 ppm	0.0458 ppm	0.0016 ppm	0.3263 ppm	0.0031 ppm	16.4609 ppm
Concentration RSD	12.7 %	2.0 %	2.7 %	62.0 %	2.0 %	10.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0485 ppm	0.1158 ppm	0.1173 ppm	117.9218 ppm	19.8954 ppm	0.1475 ppm
Concentration per Run 1	0.0002 ppm	0.0494 ppm	0.1171 ppm	0.1190 ppm	117.9369 ppm	19.3263 ppm	0.1459 ppm
Concentration per Run 2	0.0002 ppm	0.0491 ppm	0.1156 ppm	0.1163 ppm	117.7099 ppm	19.1905 ppm	0.1436 ppm
Concentration per Run 3	0.0001 ppm	0.0471 ppm	0.1147 ppm	0.1167 ppm	118.1186 ppm	21.1695 ppm	0.1529 ppm
Concentration RSD	25.7 %	2.5 %	1.0 %	1.2 %	0.2 %	5.6 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.6998 ppm	1.2753 ppm	0.0014 ppm	3.3628 ppm	0.0926 ppm	0.0523 ppm	-0.0008 ppm
Concentration per Run 1	27.0441 ppm	1.2693 ppm	0.0016 ppm	3.4181 ppm	0.0948 ppm	0.0535 ppm	-0.0019 ppm
Concentration per Run 2	26.6117 ppm	1.2701 ppm	0.0014 ppm	3.4219 ppm	0.0913 ppm	0.0517 ppm	0.0016 ppm
Concentration per Run 3	26.4434 ppm	1.2865 ppm	0.0013 ppm	3.2483 ppm	0.0916 ppm	0.0517 ppm	-0.0021 ppm
Concentration RSD	1.2 %	0.8 %	10.2 %	2.9 %	2.1 %	2.0 %	260.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	7.3424 ppm	0.0020 ppm	0.0703 ppm	4.5741 ppm	0.0038 ppm	0.1819 ppm
Concentration per Run 1	-0.0027 ppm	7.3904 ppm	0.0019 ppm	0.0711 ppm	4.6503 ppm	0.0047 ppm	0.1844 ppm
Concentration per Run 2	-0.0041 ppm	7.3478 ppm	0.0021 ppm	0.0712 ppm	4.5541 ppm	0.0037 ppm	0.1816 ppm
Concentration per Run 3	-0.0016 ppm	7.2889 ppm	0.0020 ppm	0.0686 ppm	4.5180 ppm	0.0030 ppm	0.1796 ppm
Concentration RSD	45.3 %	0.7 %	4.6 %	2.1 %	1.5 %	22.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2994 ppm	105.0332 %	103.4055 %	97.7211 %	115.9115 %	118.7874 %	120.0952 %
Concentration per Run 1	0.3045 ppm	103.7569 %	102.2877 %	97.4974 %	114.5634 %	118.4230 %	119.5515 %
Concentration per Run 2	0.2970 ppm	105.4787 %	100.7382 %	97.4064 %	116.3504 %	116.4896 %	119.9224 %
Concentration per Run 3	0.2967 ppm	105.8640 %	107.1907 %	98.2595 %	116.8208 %	121.4495 %	120.8117 %
Concentration RSD	1.5 %	1.1 %	3.3 %	0.5 %	1.0 %	2.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433089-02D2 WG1936048
Analysis started at: 6/19/2024 11:43:02 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0025 ppm	83.7990 ppm	0.0468 ppm	0.0021 ppm	0.4167 ppm	0.0045 ppm	17.7498 ppm
Concentration per Run 1	-0.0025 ppm	85.8223 ppm	0.0477 ppm	0.0021 ppm	0.4278 ppm	0.0040 ppm	17.6410 ppm
Concentration per Run 2	-0.0026 ppm	82.4407 ppm	0.0472 ppm	0.0037 ppm	0.4068 ppm	0.0048 ppm	17.7854 ppm
Concentration per Run 3	-0.0025 ppm	83.1341 ppm	0.0454 ppm	0.0003 ppm	0.4156 ppm	0.0047 ppm	17.8232 ppm
Concentration RSD	2.6 %	2.1 %	2.6 %	82.8 %	2.5 %	9.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0602 ppm	0.1375 ppm	0.1369 ppm	140.9222 ppm	24.6369 ppm	0.1701 ppm
Concentration per Run 1	0.0000 ppm	0.0611 ppm	0.1398 ppm	0.1394 ppm	141.0986 ppm	26.1465 ppm	0.1820 ppm
Concentration per Run 2	0.0001 ppm	0.0603 ppm	0.1375 ppm	0.1363 ppm	140.5073 ppm	23.7900 ppm	0.1652 ppm
Concentration per Run 3	0.0000 ppm	0.0593 ppm	0.1353 ppm	0.1351 ppm	141.1608 ppm	23.9743 ppm	0.1630 ppm
Concentration RSD	72.0 %	1.5 %	1.6 %	1.6 %	0.3 %	5.3 %	6.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.8451 ppm	1.6633 ppm	0.0043 ppm	4.8020 ppm	0.1126 ppm	0.0731 ppm	0.0000 ppm
Concentration per Run 1	32.3162 ppm	1.6737 ppm	0.0045 ppm	4.6477 ppm	0.1140 ppm	0.0729 ppm	-0.0010 ppm
Concentration per Run 2	31.7732 ppm	1.6534 ppm	0.0041 ppm	4.8921 ppm	0.1127 ppm	0.0740 ppm	0.0013 ppm
Concentration per Run 3	31.4458 ppm	1.6627 ppm	0.0044 ppm	4.8662 ppm	0.1110 ppm	0.0723 ppm	-0.0002 ppm
Concentration RSD	1.4 %	0.6 %	4.4 %	2.8 %	1.3 %	1.1 %	11,253.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	8.9488 ppm	0.0018 ppm	0.1010 ppm	5.5851 ppm	0.0051 ppm	0.2235 ppm
Concentration per Run 1	-0.0010 ppm	9.0312 ppm	0.0029 ppm	0.0990 ppm	5.6731 ppm	0.0051 ppm	0.2268 ppm
Concentration per Run 2	-0.0032 ppm	8.9700 ppm	0.0010 ppm	0.1020 ppm	5.5636 ppm	0.0055 ppm	0.2229 ppm
Concentration per Run 3	-0.0007 ppm	8.8452 ppm	0.0016 ppm	0.1020 ppm	5.5185 ppm	0.0047 ppm	0.2208 ppm
Concentration RSD	83.6 %	1.1 %	53.7 %	1.7 %	1.4 %	8.0 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3752 ppm	105.2566 %	103.7064 %	96.5574 %	118.7940 %	121.9811 %	123.8417 %
Concentration per Run 1	0.3811 ppm	104.3126 %	108.2322 %	97.2417 %	117.6353 %	125.5254 %	124.2408 %
Concentration per Run 2	0.3742 ppm	105.1950 %	101.0386 %	96.7229 %	118.6620 %	119.6548 %	124.3870 %
Concentration per Run 3	0.3703 ppm	106.2622 %	101.8484 %	95.7075 %	120.0847 %	120.7630 %	122.8974 %
Concentration RSD	1.5 %	0.9 %	3.8 %	0.8 %	1.0 %	2.6 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433126-01D2 WG1936048
Analysis started at: 6/19/2024 11:46:58 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0018 ppm	77.2396 ppm	0.0494 ppm	0.0963 ppm	0.4910 ppm	0.0051 ppm	421.7210 ppm
Concentration per Run 1	-0.0022 ppm	76.5426 ppm	0.0499 ppm	0.0983 ppm	0.4881 ppm	0.0053 ppm	422.4031 ppm
Concentration per Run 2	-0.0016 ppm	76.3126 ppm	0.0505 ppm	0.0968 ppm	0.4819 ppm	0.0054 ppm	426.0227 ppm
Concentration per Run 3	-0.0017 ppm	78.8636 ppm	0.0479 ppm	0.0937 ppm	0.5030 ppm	0.0046 ppm	416.7371 ppm
Concentration RSD	19.2 %	1.8 %	2.8 %	2.4 %	2.2 %	8.7 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0540 ppm	0.2275 ppm	0.4528 ppm	115.3372 ppm	5.6660 ppm	0.0792 ppm
Concentration per Run 1	0.0011 ppm	0.0548 ppm	0.2304 ppm	0.4611 ppm	116.1907 ppm	5.6327 ppm	0.0785 ppm
Concentration per Run 2	0.0012 ppm	0.0542 ppm	0.2267 ppm	0.4499 ppm	115.1437 ppm	5.4159 ppm	0.0749 ppm
Concentration per Run 3	0.0013 ppm	0.0530 ppm	0.2254 ppm	0.4472 ppm	114.6771 ppm	5.9492 ppm	0.0844 ppm
Concentration RSD	8.0 %	1.7 %	1.1 %	1.6 %	0.7 %	4.7 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.6347 ppm	2.4151 ppm	0.0128 ppm	6.5578 ppm	0.1566 ppm	0.5276 ppm	0.0048 ppm
Concentration per Run 1	45.1764 ppm	2.4096 ppm	0.0132 ppm	6.6169 ppm	0.1600 ppm	0.5300 ppm	0.0046 ppm
Concentration per Run 2	44.5075 ppm	2.4078 ppm	0.0128 ppm	6.7484 ppm	0.1555 ppm	0.5269 ppm	0.0052 ppm
Concentration per Run 3	44.2203 ppm	2.4279 ppm	0.0125 ppm	6.3081 ppm	0.1544 ppm	0.5259 ppm	0.0047 ppm
Concentration RSD	1.1 %	0.5 %	2.8 %	3.4 %	1.9 %	0.4 %	6.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	35.2743 ppm	0.0391 ppm	1.7008 ppm	4.2763 ppm	0.0042 ppm	0.2254 ppm
Concentration per Run 1	-0.0028 ppm	35.7332 ppm	0.0392 ppm	1.7219 ppm	4.3391 ppm	0.0053 ppm	0.2282 ppm
Concentration per Run 2	-0.0045 ppm	35.1235 ppm	0.0394 ppm	1.7339 ppm	4.2618 ppm	0.0047 ppm	0.2249 ppm
Concentration per Run 3	-0.0023 ppm	34.9661 ppm	0.0386 ppm	1.6466 ppm	4.2280 ppm	0.0024 ppm	0.2231 ppm
Concentration RSD	35.5 %	1.1 %	1.0 %	2.8 %	1.3 %	37.1 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2754 ppm	100.5451 %	100.9499 %	89.5247 %	110.5162 %	115.9399 %	113.7366 %
Concentration per Run 1	1.2924 ppm	99.8621 %	99.2605 %	89.4443 %	110.3394 %	114.4259 %	113.7384 %
Concentration per Run 2	1.2724 ppm	100.5891 %	96.9265 %	89.6598 %	110.3008 %	112.7744 %	113.6205 %
Concentration per Run 3	1.2615 ppm	101.1840 %	106.6626 %	89.4701 %	110.9084 %	120.6194 %	113.8507 %
Concentration RSD	1.2 %	0.7 %	5.0 %	0.1 %	0.3 %	3.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433128-02D2 WG1936048
Analysis started at: 6/19/2024 11:50:54 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0011 ppm	19.3170 ppm	0.0369 ppm	0.0433 ppm	0.0372 ppm	0.0019 ppm	19.7628 ppm
Concentration per Run 1	-0.0013 ppm	19.2966 ppm	0.0381 ppm	0.0431 ppm	0.0371 ppm	0.0019 ppm	19.7573 ppm
Concentration per Run 2	-0.0010 ppm	19.3770 ppm	0.0365 ppm	0.0431 ppm	0.0372 ppm	0.0019 ppm	19.7351 ppm
Concentration per Run 3	-0.0009 ppm	19.2775 ppm	0.0363 ppm	0.0436 ppm	0.0372 ppm	0.0019 ppm	19.7959 ppm
Concentration RSD	16.5 %	0.3 %	2.6 %	0.8 %	0.1 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0228 ppm	0.0879 ppm	0.0283 ppm	100.3173 ppm	4.0917 ppm	0.0515 ppm
Concentration per Run 1	0.0001 ppm	0.0236 ppm	0.0889 ppm	0.0292 ppm	100.4561 ppm	4.1083 ppm	0.0526 ppm
Concentration per Run 2	0.0001 ppm	0.0223 ppm	0.0879 ppm	0.0278 ppm	100.1503 ppm	4.1149 ppm	0.0509 ppm
Concentration per Run 3	0.0003 ppm	0.0226 ppm	0.0870 ppm	0.0280 ppm	100.3454 ppm	4.0520 ppm	0.0510 ppm
Concentration RSD	46.4 %	2.8 %	1.1 %	2.6 %	0.2 %	0.8 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.2901 ppm	0.6797 ppm	0.0012 ppm	9.5146 ppm	0.0530 ppm	0.0214 ppm	-0.0009 ppm
Concentration per Run 1	11.4397 ppm	0.6794 ppm	0.0014 ppm	9.5425 ppm	0.0537 ppm	0.0218 ppm	-0.0011 ppm
Concentration per Run 2	11.2581 ppm	0.6800 ppm	0.0008 ppm	9.4769 ppm	0.0527 ppm	0.0208 ppm	-0.0018 ppm
Concentration per Run 3	11.1725 ppm	0.6797 ppm	0.0014 ppm	9.5244 ppm	0.0525 ppm	0.0217 ppm	0.0001 ppm
Concentration RSD	1.2 %	0.1 %	31.6 %	0.4 %	1.2 %	2.5 %	108.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	2.7365 ppm	0.0015 ppm	0.0783 ppm	0.5664 ppm	-0.0001 ppm	0.1003 ppm
Concentration per Run 1	-0.0009 ppm	2.7979 ppm	0.0014 ppm	0.0784 ppm	0.5733 ppm	0.0008 ppm	0.1018 ppm
Concentration per Run 2	0.0016 ppm	2.7246 ppm	0.0014 ppm	0.0784 ppm	0.5649 ppm	0.0004 ppm	0.1005 ppm
Concentration per Run 3	-0.0011 ppm	2.6871 ppm	0.0015 ppm	0.0782 ppm	0.5610 ppm	-0.0014 ppm	0.0986 ppm
Concentration RSD	1,088.5 %	2.1 %	5.6 %	0.2 %	1.1 %	1,691.5 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1497 ppm	102.4871 %	103.5833 %	100.1728 %	107.7086 %	110.1744 %	109.7133 %
Concentration per Run 1	0.1521 ppm	101.3504 %	103.1001 %	100.0315 %	107.1778 %	109.9756 %	109.6535 %
Concentration per Run 2	0.1494 ppm	102.6057 %	104.3190 %	100.1179 %	107.4327 %	110.4696 %	109.9037 %
Concentration per Run 3	0.1475 ppm	103.5051 %	103.3310 %	100.3691 %	108.5152 %	110.0781 %	109.5825 %
Concentration RSD	1.5 %	1.1 %	0.6 %	0.2 %	0.7 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433148-01D2 WG1936048
Analysis started at: 6/19/2024 11:54:51 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0020 ppm	87.0577 ppm	0.0260 ppm	0.0404 ppm	0.7566 ppm	0.0056 ppm	11.4882 ppm
Concentration per Run 1	-0.0018 ppm	87.7845 ppm	0.0254 ppm	0.0403 ppm	0.7567 ppm	0.0057 ppm	11.5984 ppm
Concentration per Run 2	-0.0022 ppm	86.9910 ppm	0.0261 ppm	0.0402 ppm	0.7633 ppm	0.0056 ppm	11.4811 ppm
Concentration per Run 3	-0.0018 ppm	86.3975 ppm	0.0264 ppm	0.0408 ppm	0.7499 ppm	0.0055 ppm	11.3851 ppm
Concentration RSD	12.2 %	0.8 %	2.1 %	0.8 %	0.9 %	1.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0700 ppm	0.1549 ppm	0.1693 ppm	184.2982 ppm	9.0430 ppm	0.1733 ppm
Concentration per Run 1	0.0004 ppm	0.0710 ppm	0.1564 ppm	0.1711 ppm	184.8648 ppm	9.0747 ppm	0.1753 ppm
Concentration per Run 2	0.0006 ppm	0.0693 ppm	0.1549 ppm	0.1688 ppm	184.3973 ppm	9.0539 ppm	0.1690 ppm
Concentration per Run 3	0.0002 ppm	0.0699 ppm	0.1534 ppm	0.1679 ppm	183.6325 ppm	9.0004 ppm	0.1757 ppm
Concentration RSD	45.0 %	1.2 %	1.0 %	1.0 %	0.3 %	0.4 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.4543 ppm	5.3545 ppm	0.0025 ppm	0.9758 ppm	0.1403 ppm	0.1261 ppm	0.0026 ppm
Concentration per Run 1	32.8726 ppm	5.3974 ppm	0.0027 ppm	0.9834 ppm	0.1422 ppm	0.1263 ppm	0.0039 ppm
Concentration per Run 2	32.4205 ppm	5.3587 ppm	0.0023 ppm	0.9755 ppm	0.1393 ppm	0.1266 ppm	-0.0004 ppm
Concentration per Run 3	32.0698 ppm	5.3072 ppm	0.0026 ppm	0.9684 ppm	0.1395 ppm	0.1255 ppm	0.0042 ppm
Concentration RSD	1.2 %	0.8 %	8.0 %	0.8 %	1.2 %	0.4 %	99.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	5.0696 ppm	0.0048 ppm	0.0733 ppm	2.3413 ppm	0.0050 ppm	0.2378 ppm
Concentration per Run 1	-0.0014 ppm	5.1250 ppm	0.0050 ppm	0.0736 ppm	2.3769 ppm	0.0063 ppm	0.2404 ppm
Concentration per Run 2	-0.0022 ppm	5.0566 ppm	0.0056 ppm	0.0732 ppm	2.3336 ppm	0.0032 ppm	0.2376 ppm
Concentration per Run 3	-0.0008 ppm	5.0273 ppm	0.0038 ppm	0.0732 ppm	2.3133 ppm	0.0056 ppm	0.2354 ppm
Concentration RSD	47.0 %	1.0 %	19.5 %	0.3 %	1.4 %	32.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3449 ppm	106.6321 %	104.3684 %	100.1491 %	128.0177 %	129.0310 %	131.4166 %
Concentration per Run 1	0.3500 ppm	105.7320 %	103.4471 %	99.8215 %	127.3376 %	128.0558 %	130.9510 %
Concentration per Run 2	0.3436 ppm	106.6641 %	104.4024 %	100.4940 %	128.0361 %	129.2188 %	132.0519 %
Concentration per Run 3	0.3411 ppm	107.5003 %	105.2556 %	100.1319 %	128.6794 %	129.8185 %	131.2469 %
Concentration RSD	1.3 %	0.8 %	0.9 %	0.3 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433148-02D2 WG1936048
Analysis started at: 6/19/2024 11:58:48 AM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0023 ppm	94.2129 ppm	0.0280 ppm	0.0386 ppm	0.5839 ppm	0.0057 ppm	23.4859 ppm
Concentration per Run 1	-0.0022 ppm	94.5383 ppm	0.0275 ppm	0.0392 ppm	0.5884 ppm	0.0058 ppm	23.5511 ppm
Concentration per Run 2	-0.0027 ppm	94.4764 ppm	0.0283 ppm	0.0387 ppm	0.5833 ppm	0.0057 ppm	23.5911 ppm
Concentration per Run 3	-0.0018 ppm	93.6241 ppm	0.0282 ppm	0.0379 ppm	0.5800 ppm	0.0056 ppm	23.3156 ppm
Concentration RSD	21.4 %	0.5 %	1.6 %	1.7 %	0.7 %	1.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0674 ppm	0.1502 ppm	0.2255 ppm	185.0619 ppm	8.7887 ppm	0.1649 ppm
Concentration per Run 1	0.0007 ppm	0.0685 ppm	0.1514 ppm	0.2284 ppm	186.7312 ppm	8.8822 ppm	0.1679 ppm
Concentration per Run 2	0.0007 ppm	0.0676 ppm	0.1502 ppm	0.2248 ppm	185.3738 ppm	8.7727 ppm	0.1619 ppm
Concentration per Run 3	0.0010 ppm	0.0660 ppm	0.1491 ppm	0.2234 ppm	183.0806 ppm	8.7111 ppm	0.1650 ppm
Concentration RSD	22.7 %	1.8 %	0.8 %	1.1 %	1.0 %	1.0 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.3167 ppm	4.3772 ppm	0.0030 ppm	1.0195 ppm	0.1559 ppm	0.3498 ppm	0.0029 ppm
Concentration per Run 1	35.8358 ppm	4.3972 ppm	0.0027 ppm	1.0227 ppm	0.1583 ppm	0.3493 ppm	0.0028 ppm
Concentration per Run 2	35.1322 ppm	4.3880 ppm	0.0027 ppm	1.0252 ppm	0.1557 ppm	0.3505 ppm	0.0042 ppm
Concentration per Run 3	34.9821 ppm	4.3464 ppm	0.0036 ppm	1.0105 ppm	0.1537 ppm	0.3495 ppm	0.0018 ppm
Concentration RSD	1.3 %	0.6 %	17.4 %	0.8 %	1.5 %	0.2 %	40.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	5.7007 ppm	0.0132 ppm	0.0876 ppm	1.9411 ppm	0.0048 ppm	0.2331 ppm
Concentration per Run 1	-0.0017 ppm	5.7671 ppm	0.0129 ppm	0.0887 ppm	1.9703 ppm	0.0040 ppm	0.2369 ppm
Concentration per Run 2	0.0024 ppm	5.6738 ppm	0.0134 ppm	0.0877 ppm	1.9342 ppm	0.0067 ppm	0.2334 ppm
Concentration per Run 3	0.0007 ppm	5.6614 ppm	0.0133 ppm	0.0864 ppm	1.9189 ppm	0.0036 ppm	0.2290 ppm
Concentration RSD	483.6 %	1.0 %	2.1 %	1.3 %	1.4 %	35.0 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4840 ppm	106.5663 %	103.3890 %	100.2856 %	131.0685 %	132.1581 %	136.0669 %
Concentration per Run 1	0.4914 ppm	105.1961 %	103.3619 %	100.1067 %	130.0901 %	132.5120 %	136.0737 %
Concentration per Run 2	0.4838 ppm	106.7315 %	102.9847 %	100.4355 %	130.9373 %	131.4959 %	136.0638 %
Concentration per Run 3	0.4768 ppm	107.7713 %	103.8205 %	100.3147 %	132.1781 %	132.4664 %	136.0633 %
Concentration RSD	1.5 %	1.2 %	0.4 %	0.2 %	0.8 %	0.4 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433148-03D2 WG1936048
Analysis started at: 6/19/2024 12:02:45 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	118.1906 ppm	0.0502 ppm	0.0312 ppm	1.0424 ppm	0.0063 ppm	26.7554 ppm
Concentration per Run 1	-0.0010 ppm	118.6099 ppm	0.0514 ppm	0.0320 ppm	1.0469 ppm	0.0064 ppm	26.7384 ppm
Concentration per Run 2	-0.0011 ppm	118.2917 ppm	0.0491 ppm	0.0299 ppm	1.0456 ppm	0.0063 ppm	26.7562 ppm
Concentration per Run 3	-0.0008 ppm	117.6702 ppm	0.0501 ppm	0.0319 ppm	1.0349 ppm	0.0063 ppm	26.7715 ppm
Concentration RSD	15.7 %	0.4 %	2.3 %	3.8 %	0.6 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0625 ppm	0.1608 ppm	0.2741 ppm	172.4359 ppm	6.6770 ppm	0.1224 ppm
Concentration per Run 1	0.0031 ppm	0.0627 ppm	0.1628 ppm	0.2774 ppm	173.4440 ppm	6.7308 ppm	0.1252 ppm
Concentration per Run 2	0.0033 ppm	0.0626 ppm	0.1610 ppm	0.2728 ppm	172.6814 ppm	6.6838 ppm	0.1234 ppm
Concentration per Run 3	0.0033 ppm	0.0622 ppm	0.1586 ppm	0.2720 ppm	171.1824 ppm	6.6164 ppm	0.1186 ppm
Concentration RSD	3.0 %	0.4 %	1.3 %	1.1 %	0.7 %	0.9 %	2.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.0584 ppm	4.3849 ppm	0.0044 ppm	1.1583 ppm	0.1258 ppm	1.7731 ppm	0.0052 ppm
Concentration per Run 1	27.4898 ppm	4.3964 ppm	0.0046 ppm	1.1547 ppm	0.1269 ppm	1.7619 ppm	0.0057 ppm
Concentration per Run 2	26.9624 ppm	4.3852 ppm	0.0044 ppm	1.1580 ppm	0.1258 ppm	1.7901 ppm	0.0062 ppm
Concentration per Run 3	26.7231 ppm	4.3732 ppm	0.0042 ppm	1.1621 ppm	0.1246 ppm	1.7673 ppm	0.0038 ppm
Concentration RSD	1.4 %	0.3 %	4.8 %	0.3 %	0.9 %	0.8 %	24.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	6.1762 ppm	0.0422 ppm	0.1617 ppm	1.8237 ppm	0.0041 ppm	0.2512 ppm
Concentration per Run 1	0.0018 ppm	6.2315 ppm	0.0444 ppm	0.1625 ppm	1.8489 ppm	0.0040 ppm	0.2563 ppm
Concentration per Run 2	0.0017 ppm	6.1526 ppm	0.0420 ppm	0.1617 ppm	1.8163 ppm	0.0028 ppm	0.2491 ppm
Concentration per Run 3	0.0002 ppm	6.1444 ppm	0.0402 ppm	0.1610 ppm	1.8059 ppm	0.0055 ppm	0.2482 ppm
Concentration RSD	71.1 %	0.8 %	5.0 %	0.5 %	1.2 %	33.2 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4943 ppm	104.6945 %	107.7176 %	98.6121 %	146.0337 %	153.3407 %	150.8488 %
Concentration per Run 1	1.5182 ppm	103.1764 %	108.5168 %	99.0619 %	143.9658 %	154.3517 %	151.4721 %
Concentration per Run 2	1.4909 ppm	105.0091 %	107.3422 %	98.2810 %	146.4930 %	152.7512 %	150.3727 %
Concentration per Run 3	1.4737 ppm	105.8981 %	107.2939 %	98.4932 %	147.6423 %	152.9192 %	150.7017 %
Concentration RSD	1.5 %	1.3 %	0.6 %	0.4 %	1.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433149-01D2 WG1936048
Analysis started at: 6/19/2024 12:06:42 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	91.6375 ppm	0.0387 ppm	0.1213 ppm	0.5797 ppm	0.0055 ppm	37.9126 ppm
Concentration per Run 1	0.0020 ppm	91.4308 ppm	0.0410 ppm	0.1219 ppm	0.5774 ppm	0.0055 ppm	37.8850 ppm
Concentration per Run 2	0.0023 ppm	91.8222 ppm	0.0365 ppm	0.1215 ppm	0.5815 ppm	0.0055 ppm	37.9687 ppm
Concentration per Run 3	0.0015 ppm	91.6595 ppm	0.0385 ppm	0.1204 ppm	0.5802 ppm	0.0055 ppm	37.8840 ppm
Concentration RSD	19.5 %	0.2 %	5.8 %	0.6 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0804 ppm	0.1838 ppm	0.3491 ppm	220.0254 ppm	8.6335 ppm	0.1931 ppm
Concentration per Run 1	0.0031 ppm	0.0815 ppm	0.1861 ppm	0.3534 ppm	219.5120 ppm	8.6264 ppm	0.1931 ppm
Concentration per Run 2	0.0032 ppm	0.0805 ppm	0.1836 ppm	0.3499 ppm	220.4317 ppm	8.6209 ppm	0.1956 ppm
Concentration per Run 3	0.0032 ppm	0.0793 ppm	0.1816 ppm	0.3442 ppm	220.1326 ppm	8.6532 ppm	0.1907 ppm
Concentration RSD	1.2 %	1.3 %	1.2 %	1.3 %	0.2 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.1041 ppm	4.0231 ppm	0.0050 ppm	3.9873 ppm	0.1593 ppm	0.6627 ppm	0.0072 ppm
Concentration per Run 1	37.6760 ppm	4.0154 ppm	0.0051 ppm	3.9947 ppm	0.1616 ppm	0.6663 ppm	0.0078 ppm
Concentration per Run 2	36.9885 ppm	4.0298 ppm	0.0047 ppm	3.9853 ppm	0.1598 ppm	0.6613 ppm	0.0041 ppm
Concentration per Run 3	36.6477 ppm	4.0239 ppm	0.0052 ppm	3.9818 ppm	0.1564 ppm	0.6605 ppm	0.0097 ppm
Concentration RSD	1.4 %	0.2 %	4.6 %	0.2 %	1.7 %	0.5 %	39.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	5.7417 ppm	0.0191 ppm	0.1929 ppm	2.4649 ppm	0.0035 ppm	0.2846 ppm
Concentration per Run 1	-0.0033 ppm	5.7813 ppm	0.0196 ppm	0.1926 ppm	2.5050 ppm	0.0036 ppm	0.2898 ppm
Concentration per Run 2	0.0004 ppm	5.7634 ppm	0.0181 ppm	0.1930 ppm	2.4556 ppm	0.0031 ppm	0.2824 ppm
Concentration per Run 3	-0.0016 ppm	5.6802 ppm	0.0194 ppm	0.1931 ppm	2.4341 ppm	0.0037 ppm	0.2816 ppm
Concentration RSD	121.2 %	0.9 %	4.3 %	0.1 %	1.5 %	9.9 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8591 ppm	105.1081 %	108.3113 %	97.8208 %	119.5883 %	126.9027 %	124.0625 %
Concentration per Run 1	0.8663 ppm	103.8040 %	109.1340 %	97.8465 %	118.0180 %	128.1777 %	124.3016 %
Concentration per Run 2	0.8594 ppm	105.6474 %	107.3298 %	98.3039 %	120.4444 %	125.4683 %	124.5035 %
Concentration per Run 3	0.8516 ppm	105.8730 %	108.4702 %	97.3118 %	120.3024 %	127.0621 %	123.3824 %
Concentration RSD	0.9 %	1.1 %	0.8 %	0.5 %	1.1 %	1.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433162-01D2 WG1936048
Analysis started at: 6/19/2024 12:10:39 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	84.5789 ppm	0.0616 ppm	0.0114 ppm	0.4789 ppm	0.0036 ppm	198.0720 ppm
Concentration per Run 1	-0.0003 ppm	84.6081 ppm	0.0629 ppm	0.0108 ppm	0.4768 ppm	0.0036 ppm	197.9720 ppm
Concentration per Run 2	-0.0002 ppm	84.5237 ppm	0.0619 ppm	0.0116 ppm	0.4776 ppm	0.0035 ppm	198.1535 ppm
Concentration per Run 3	-0.0010 ppm	84.6049 ppm	0.0599 ppm	0.0119 ppm	0.4823 ppm	0.0036 ppm	198.0905 ppm
Concentration RSD	85.5 %	0.1 %	2.5 %	5.1 %	0.6 %	1.2 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0887 ppm	0.1037 ppm	0.2318 ppm	207.0492 ppm	6.3350 ppm	0.1769 ppm
Concentration per Run 1	0.0018 ppm	0.0897 ppm	0.1053 ppm	0.2336 ppm	206.6171 ppm	6.3827 ppm	0.1804 ppm
Concentration per Run 2	0.0019 ppm	0.0882 ppm	0.1033 ppm	0.2313 ppm	206.4822 ppm	6.2907 ppm	0.1747 ppm
Concentration per Run 3	0.0018 ppm	0.0882 ppm	0.1026 ppm	0.2303 ppm	208.0485 ppm	6.3316 ppm	0.1755 ppm
Concentration RSD	2.6 %	1.0 %	1.3 %	0.7 %	0.4 %	0.7 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	107.7603 ppm	6.3773 ppm	0.0040 ppm	0.4036 ppm	0.1657 ppm	0.1555 ppm	0.0050 ppm
Concentration per Run 1	109.1759 ppm	6.3773 ppm	0.0034 ppm	0.4002 ppm	0.1684 ppm	0.1559 ppm	0.0072 ppm
Concentration per Run 2	107.5992 ppm	6.3754 ppm	0.0040 ppm	0.4077 ppm	0.1653 ppm	0.1561 ppm	0.0046 ppm
Concentration per Run 3	106.5058 ppm	6.3790 ppm	0.0046 ppm	0.4028 ppm	0.1634 ppm	0.1546 ppm	0.0032 ppm
Concentration RSD	1.2 %	0.0 %	14.9 %	0.9 %	1.5 %	0.5 %	40.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	6.5389 ppm	0.0041 ppm	0.2436 ppm	0.4089 ppm	0.0029 ppm	0.0992 ppm
Concentration per Run 1	-0.0006 ppm	6.6041 ppm	0.0033 ppm	0.2429 ppm	0.4117 ppm	0.0037 ppm	0.0999 ppm
Concentration per Run 2	-0.0033 ppm	6.5257 ppm	0.0050 ppm	0.2428 ppm	0.4105 ppm	0.0031 ppm	0.0988 ppm
Concentration per Run 3	-0.0032 ppm	6.4869 ppm	0.0040 ppm	0.2451 ppm	0.4044 ppm	0.0019 ppm	0.0990 ppm
Concentration RSD	65.4 %	0.9 %	21.6 %	0.5 %	1.0 %	32.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6179 ppm	102.1258 %	104.9354 %	93.3836 %	117.7049 %	123.2463 %	118.0319 %
Concentration per Run 1	0.6244 ppm	101.2549 %	104.7873 %	93.5548 %	116.9629 %	123.2226 %	118.1794 %
Concentration per Run 2	0.6157 ppm	102.3800 %	104.8483 %	93.6027 %	118.0646 %	122.8387 %	118.2755 %
Concentration per Run 3	0.6135 ppm	102.7424 %	105.1705 %	92.9933 %	118.0871 %	123.6776 %	117.6408 %
Concentration RSD	0.9 %	0.8 %	0.2 %	0.4 %	0.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 12:14:37 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4880 ppm	0.4811 ppm	0.4789 ppm	0.4814 ppm	0.4929 ppm	0.5081 ppm	0.4949 ppm
Concentration per Run 1	0.4897 ppm	0.4770 ppm	0.4801 ppm	0.4810 ppm	0.4905 ppm	0.5064 ppm	0.4917 ppm
Concentration per Run 2	0.4883 ppm	0.4852 ppm	0.4789 ppm	0.4834 ppm	0.4937 ppm	0.5094 ppm	0.4954 ppm
Concentration per Run 3	0.4861 ppm	0.4811 ppm	0.4776 ppm	0.4799 ppm	0.4944 ppm	0.5086 ppm	0.4975 ppm
Recovery Percentage 1	97.609 %	96.218 %	95.777 %	96.286 %	98.578 %	101.622 %	98.978 %
Concentration RSD	0.4 %	0.9 %	0.3 %	0.4 %	0.4 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4913 ppm	0.4981 ppm	0.4841 ppm	0.4741 ppm	0.5299 ppm	5.2627 ppm	0.4951 ppm
Concentration per Run 1	0.4926 ppm	0.4984 ppm	0.4862 ppm	0.4752 ppm	0.5346 ppm	5.2524 ppm	0.4909 ppm
Concentration per Run 2	0.4910 ppm	0.4984 ppm	0.4847 ppm	0.4736 ppm	0.5273 ppm	5.2817 ppm	0.4994 ppm
Concentration per Run 3	0.4904 ppm	0.4976 ppm	0.4814 ppm	0.4735 ppm	0.5277 ppm	5.2540 ppm	0.4950 ppm
Recovery Percentage 1	98.266 %	99.622 %	96.818 %	94.813 %	105.976 %	105.254 %	99.022 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.2 %	0.8 %	0.3 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4830 ppm	0.4988 ppm	0.4838 ppm	10.6033 ppm	0.4998 ppm	0.4853 ppm	0.4767 ppm
Concentration per Run 1	0.4868 ppm	0.4988 ppm	0.4805 ppm	10.6335 ppm	0.5030 ppm	0.4869 ppm	0.4765 ppm
Concentration per Run 2	0.4805 ppm	0.4992 ppm	0.4848 ppm	10.6007 ppm	0.4992 ppm	0.4856 ppm	0.4839 ppm
Concentration per Run 3	0.4818 ppm	0.4983 ppm	0.4862 ppm	10.5756 ppm	0.4972 ppm	0.4833 ppm	0.4697 ppm
Recovery Percentage 1	96.604 %	99.752 %	96.767 %	106.033 %	99.962 %	97.052 %	95.335 %
Concentration RSD	0.7 %	0.1 %	0.6 %	0.3 %	0.6 %	0.4 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4833 ppm	5.0565 ppm	0.5103 ppm	0.4963 ppm	0.4875 ppm	0.4775 ppm	0.4853 ppm
Concentration per Run 1	0.4823 ppm	5.0547 ppm	0.5128 ppm	0.4958 ppm	0.4894 ppm	0.4769 ppm	0.4881 ppm
Concentration per Run 2	0.4824 ppm	5.0697 ppm	0.5086 ppm	0.4974 ppm	0.4875 ppm	0.4774 ppm	0.4848 ppm
Concentration per Run 3	0.4851 ppm	5.0449 ppm	0.5094 ppm	0.4958 ppm	0.4857 ppm	0.4783 ppm	0.4831 ppm
Recovery Percentage 1	96.652 %	96.314 %	102.052 %	99.267 %	97.508 %	95.509 %	97.067 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.2 %	0.4 %	0.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5032 ppm	103.9660 %	102.0332 %	101.8557 %	98.9489 %	98.9008 %	100.2947 %
Concentration per Run 1	0.5050 ppm	102.9090 %	101.4459 %	101.6797 %	97.8325 %	98.6007 %	100.2508 %
Concentration per Run 2	0.5037 ppm	104.6338 %	102.0275 %	101.5394 %	99.5417 %	98.6572 %	100.0392 %
Concentration per Run 3	0.5010 ppm	104.3552 %	102.6261 %	102.3480 %	99.4725 %	99.4446 %	100.5941 %
Recovery Percentage 1	100.643 %						
Concentration RSD	0.4 %	0.9 %	0.6 %	0.4 %	1.0 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 12:18:34 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	-0.0030 ppm	0.0002 ppm	-0.0005 ppm	-0.0005 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 1	-0.0006 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm	-0.0004 ppm	0.0000 ppm	0.0139 ppm
Concentration per Run 2	-0.0006 ppm	-0.0051 ppm	-0.0003 ppm	-0.0010 ppm	-0.0005 ppm	0.0000 ppm	0.0088 ppm
Concentration per Run 3	-0.0011 ppm	-0.0035 ppm	0.0008 ppm	-0.0015 ppm	-0.0004 ppm	0.0001 ppm	0.0048 ppm
Recovery Percentage 1	-10.998 %	-2.950 %	7.431 %	-1.746 %	-4.552 %	1.142 %	9.190 %
Concentration RSD	37.8 %	84.5 %	235.8 %	236.1 %	17.0 %	49.1 %	49.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0068 ppm	-0.0731 ppm	-0.0004 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0063 ppm	-0.0920 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0066 ppm	-0.0503 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0076 ppm	-0.0771 ppm	-0.0010 ppm
Recovery Percentage 1	2.195 %	-1.214 %	1.002 %	7.553 %	13.662 %	-2.925 %	-3.945 %
Concentration RSD	62.3 %	62.0 %	37.5 %	71.0 %	10.0 %	28.9 %	186.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0019 ppm	-0.0001 ppm	0.0003 ppm	0.0257 ppm	-0.0003 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 1	-0.0027 ppm	-0.0003 ppm	0.0002 ppm	0.0307 ppm	-0.0003 ppm	-0.0017 ppm	0.0011 ppm
Concentration per Run 2	-0.0036 ppm	-0.0001 ppm	0.0007 ppm	0.0283 ppm	0.0000 ppm	-0.0015 ppm	0.0016 ppm
Concentration per Run 3	0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0180 ppm	-0.0005 ppm	-0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-1.860 %	-1.486 %	0.689 %	1.283 %	-1.076 %	-12.558 %	1.968 %
Concentration RSD	125.7 %	63.7 %	82.9 %	26.3 %	88.7 %	50.4 %	74.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0026 ppm	-0.0006 ppm	-0.0001 ppm	0.0009 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	-0.0012 ppm	0.0021 ppm	-0.0006 ppm	-0.0002 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0024 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	-0.0006 ppm
Concentration per Run 3	-0.0008 ppm	0.0032 ppm	-0.0012 ppm	0.0000 ppm	0.0015 ppm	0.0005 ppm	-0.0003 ppm
Recovery Percentage 1	-7.189 %	0.514 %	-1.262 %	-1.210 %	8.846 %	2.409 %	-2.909 %
Concentration RSD	80.4 %	23.1 %	94.3 %	55.6 %	63.2 %	99.2 %	83.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	96.3653 %	98.3028 %	98.0894 %	98.4192 %	99.0691 %	100.5636 %
Concentration per Run 1	0.0016 ppm	94.6494 %	98.5614 %	98.0374 %	97.6166 %	99.5376 %	100.7672 %
Concentration per Run 2	0.0011 ppm	96.8158 %	97.6880 %	97.7161 %	98.8177 %	98.6182 %	100.1098 %
Concentration per Run 3	0.0010 ppm	97.6307 %	98.6589 %	98.5147 %	98.8234 %	99.0515 %	100.8138 %
Recovery Percentage 1	24.798 %						
Concentration RSD	26.8 %	1.6 %	0.5 %	0.4 %	0.7 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 100 Mn
Analysis started at: 6/19/2024 12:31:30 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0022 ppm	-0.0040 ppm	0.0018 ppm	-0.0010 ppm	-0.0005 ppm	0.0001 ppm	0.0092 ppm
Concentration per Run 1	-0.0025 ppm	0.0002 ppm	0.0010 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0088 ppm
Concentration per Run 2	-0.0020 ppm	-0.0063 ppm	0.0011 ppm	-0.0014 ppm	-0.0007 ppm	0.0001 ppm	0.0091 ppm
Concentration per Run 3	-0.0022 ppm	-0.0058 ppm	0.0035 ppm	-0.0017 ppm	-0.0003 ppm	0.0001 ppm	0.0096 ppm
Concentration RSD	12.3 %	90.6 %	77.3 %	100.4 %	35.1 %	37.3 %	4.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0016 ppm	-0.0060 ppm	-0.0038 ppm	-0.0623 ppm	-0.0030 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0017 ppm	-0.0063 ppm	-0.0054 ppm	-0.0607 ppm	-0.0043 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0015 ppm	-0.0058 ppm	-0.0027 ppm	-0.0653 ppm	-0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0016 ppm	-0.0060 ppm	-0.0032 ppm	-0.0609 ppm	-0.0037 ppm
Concentration RSD	14.8 %	54.1 %	6.2 %	3.8 %	37.9 %	4.2 %	61.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0238 ppm	92.7777 ppm	-0.0011 ppm	0.0279 ppm	-0.0010 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 1	0.0229 ppm	92.2438 ppm	-0.0012 ppm	0.0264 ppm	-0.0004 ppm	0.0006 ppm	-0.0021 ppm
Concentration per Run 2	0.0233 ppm	92.8777 ppm	-0.0008 ppm	0.0281 ppm	-0.0015 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 3	0.0251 ppm	93.2116 ppm	-0.0014 ppm	0.0293 ppm	-0.0011 ppm	-0.0006 ppm	-0.0017 ppm
Concentration RSD	4.8 %	0.5 %	24.4 %	5.3 %	57.2 %	9,226.3 %	29.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	0.0065 ppm	-0.0013 ppm	-0.0001 ppm	0.0008 ppm	0.0163 ppm	-0.0044 ppm
Concentration per Run 1	0.0004 ppm	0.0094 ppm	-0.0020 ppm	0.0000 ppm	0.0008 ppm	0.0163 ppm	-0.0043 ppm
Concentration per Run 2	0.0043 ppm	0.0061 ppm	-0.0011 ppm	-0.0003 ppm	0.0009 ppm	0.0168 ppm	-0.0043 ppm
Concentration per Run 3	0.0025 ppm	0.0041 ppm	-0.0008 ppm	-0.0001 ppm	0.0007 ppm	0.0158 ppm	-0.0045 ppm
Concentration RSD	82.8 %	41.1 %	46.2 %	115.6 %	10.3 %	3.0 %	3.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	116.4255 %	106.5331 %	110.0777 %	103.2151 %	100.2687 %	105.3473 %
Concentration per Run 1	0.0004 ppm	117.1716 %	107.5467 %	110.6326 %	102.7356 %	101.3229 %	105.3476 %
Concentration per Run 2	0.0004 ppm	116.5855 %	106.3123 %	109.8333 %	103.4570 %	99.8935 %	105.3157 %
Concentration per Run 3	0.0003 ppm	115.5195 %	105.7404 %	109.7672 %	103.4527 %	99.5898 %	105.3786 %
Concentration RSD	18.8 %	0.7 %	0.9 %	0.4 %	0.4 %	0.9 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-01D10 WG1936048
Analysis started at: 6/19/2024 12:40:38 PM
Rack 1
Vial 49
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0125 ppm	0.7207 ppm	0.0192 ppm	0.0055 ppm	0.1716 ppm	0.0000 ppm	1.0330 ppm
Concentration per Run 1	0.0123 ppm	0.7098 ppm	0.0191 ppm	0.0049 ppm	0.1711 ppm	0.0000 ppm	1.0285 ppm
Concentration per Run 2	0.0122 ppm	0.7220 ppm	0.0182 ppm	0.0057 ppm	0.1721 ppm	0.0000 ppm	1.0319 ppm
Concentration per Run 3	0.0128 ppm	0.7305 ppm	0.0202 ppm	0.0059 ppm	0.1715 ppm	0.0000 ppm	1.0387 ppm
Concentration RSD	2.4 %	1.4 %	5.2 %	9.7 %	0.3 %	33.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0031 ppm	0.0014 ppm	0.1967 ppm	0.1017 ppm	14.1036 ppm	0.0611 ppm	-0.0025 ppm
Concentration per Run 1	0.0030 ppm	0.0013 ppm	0.1944 ppm	0.1002 ppm	14.0723 ppm	0.0557 ppm	-0.0024 ppm
Concentration per Run 2	0.0032 ppm	0.0015 ppm	0.1958 ppm	0.1020 ppm	14.1349 ppm	0.0635 ppm	-0.0020 ppm
Concentration per Run 3	0.0031 ppm	0.0016 ppm	0.1998 ppm	0.1030 ppm	14.1035 ppm	0.0642 ppm	-0.0031 ppm
Concentration RSD	2.0 %	11.3 %	1.4 %	1.4 %	0.2 %	7.7 %	23.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1765 ppm	0.0368 ppm	0.0071 ppm	2.1857 ppm	0.0438 ppm	63.2421 ppm	0.5846 ppm
Concentration per Run 1	1.1611 ppm	0.0367 ppm	0.0067 ppm	2.1710 ppm	0.0432 ppm	62.4905 ppm	0.5740 ppm
Concentration per Run 2	1.1776 ppm	0.0370 ppm	0.0074 ppm	2.1830 ppm	0.0437 ppm	63.2010 ppm	0.5821 ppm
Concentration per Run 3	1.1909 ppm	0.0368 ppm	0.0073 ppm	2.2031 ppm	0.0446 ppm	64.0348 ppm	0.5977 ppm
Concentration RSD	1.3 %	0.3 %	5.6 %	0.7 %	1.6 %	1.2 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0136 ppm	0.3299 ppm	0.1579 ppm	0.0140 ppm	0.0158 ppm	-0.0001 ppm	0.0331 ppm
Concentration per Run 1	0.0118 ppm	0.3264 ppm	0.1550 ppm	0.0137 ppm	0.0162 ppm	0.0009 ppm	0.0327 ppm
Concentration per Run 2	0.0140 ppm	0.3330 ppm	0.1568 ppm	0.0141 ppm	0.0151 ppm	-0.0011 ppm	0.0331 ppm
Concentration per Run 3	0.0151 ppm	0.3303 ppm	0.1618 ppm	0.0141 ppm	0.0162 ppm	-0.0001 ppm	0.0337 ppm
Concentration RSD	12.2 %	1.0 %	2.3 %	1.6 %	3.9 %	883.5 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1320 ppm	124.0080 %	109.0954 %	114.8340 %	103.8372 %	100.5003 %	103.3461 %
Concentration per Run 1	0.1301 ppm	125.6142 %	110.2809 %	115.8533 %	102.7786 %	101.4101 %	102.9195 %
Concentration per Run 2	0.1318 ppm	123.8784 %	109.0551 %	114.8180 %	103.9689 %	100.3505 %	103.3690 %
Concentration per Run 3	0.1341 ppm	122.5315 %	107.9502 %	113.8306 %	104.7642 %	99.7402 %	103.7498 %
Concentration RSD	1.5 %	1.2 %	1.1 %	0.9 %	1.0 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-02D10 WG1936048
Analysis started at: 6/19/2024 12:44:49 PM
Rack 1
Vial 50
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0280 ppm	1.3053 ppm	0.0347 ppm	0.0189 ppm	0.1196 ppm	0.0001 ppm	5.7044 ppm
Concentration per Run 1	0.0286 ppm	1.3269 ppm	0.0349 ppm	0.0201 ppm	0.1197 ppm	0.0000 ppm	5.7077 ppm
Concentration per Run 2	0.0280 ppm	1.2966 ppm	0.0337 ppm	0.0181 ppm	0.1194 ppm	0.0001 ppm	5.7133 ppm
Concentration per Run 3	0.0274 ppm	1.2925 ppm	0.0355 ppm	0.0186 ppm	0.1197 ppm	0.0001 ppm	5.6923 ppm
Concentration RSD	2.1 %	1.4 %	2.5 %	5.5 %	0.2 %	54.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0178 ppm	0.0073 ppm	0.4167 ppm	0.1921 ppm	18.3441 ppm	0.1060 ppm	-0.0035 ppm
Concentration per Run 1	0.0182 ppm	0.0075 ppm	0.4261 ppm	0.1963 ppm	18.2658 ppm	0.1234 ppm	-0.0022 ppm
Concentration per Run 2	0.0177 ppm	0.0070 ppm	0.4131 ppm	0.1912 ppm	18.3152 ppm	0.0800 ppm	-0.0048 ppm
Concentration per Run 3	0.0175 ppm	0.0075 ppm	0.4110 ppm	0.1887 ppm	18.4512 ppm	0.1144 ppm	-0.0036 ppm
Concentration RSD	1.9 %	3.9 %	2.0 %	2.0 %	0.5 %	21.6 %	36.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.2276 ppm	0.1481 ppm	0.0118 ppm	5.0035 ppm	0.1567 ppm	120.3331 ppm	0.7622 ppm
Concentration per Run 1	4.3220 ppm	0.1487 ppm	0.0119 ppm	4.9852 ppm	0.1604 ppm	120.5971 ppm	0.7761 ppm
Concentration per Run 2	4.1968 ppm	0.1478 ppm	0.0116 ppm	5.0223 ppm	0.1565 ppm	120.1536 ppm	0.7592 ppm
Concentration per Run 3	4.1640 ppm	0.1478 ppm	0.0118 ppm	5.0031 ppm	0.1533 ppm	120.2486 ppm	0.7513 ppm
Concentration RSD	2.0 %	0.3 %	1.2 %	0.4 %	2.3 %	0.2 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0245 ppm	0.4325 ppm	0.5315 ppm	0.0304 ppm	0.0353 ppm	0.0014 ppm	0.1630 ppm
Concentration per Run 1	0.0249 ppm	0.4408 ppm	0.5427 ppm	0.0305 ppm	0.0346 ppm	0.0021 ppm	0.1667 ppm
Concentration per Run 2	0.0245 ppm	0.4314 ppm	0.5309 ppm	0.0305 ppm	0.0376 ppm	0.0004 ppm	0.1619 ppm
Concentration per Run 3	0.0240 ppm	0.4253 ppm	0.5209 ppm	0.0302 ppm	0.0336 ppm	0.0019 ppm	0.1604 ppm
Concentration RSD	1.9 %	1.8 %	2.1 %	0.6 %	5.8 %	65.6 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9217 ppm	101.1599 %	102.4774 %	100.8389 %	99.1482 %	100.4454 %	100.0353 %
Concentration per Run 1	0.9392 ppm	99.3611 %	102.6373 %	100.8316 %	97.9293 %	100.4828 %	100.2593 %
Concentration per Run 2	0.9173 ppm	101.9834 %	101.6549 %	100.4107 %	100.0184 %	99.9164 %	99.6045 %
Concentration per Run 3	0.9085 ppm	102.1351 %	103.1400 %	101.2744 %	99.4968 %	100.9371 %	100.2421 %
Concentration RSD	1.7 %	1.5 %	0.7 %	0.4 %	1.1 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432998-01D20 WG1936048
Analysis started at: 6/19/2024 12:49:58 PM
Rack 2
Vial 4
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0076 ppm	0.3980 ppm	0.0119 ppm	0.0046 ppm	0.0950 ppm	0.0001 ppm	0.5768 ppm
Concentration per Run 1	0.0074 ppm	0.3958 ppm	0.0116 ppm	0.0059 ppm	0.0943 ppm	0.0001 ppm	0.5731 ppm
Concentration per Run 2	0.0077 ppm	0.4028 ppm	0.0123 ppm	0.0036 ppm	0.0956 ppm	0.0001 ppm	0.5761 ppm
Concentration per Run 3	0.0078 ppm	0.3955 ppm	0.0119 ppm	0.0042 ppm	0.0952 ppm	0.0000 ppm	0.5812 ppm
Concentration RSD	2.5 %	1.0 %	3.0 %	26.0 %	0.7 %	54.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0010 ppm	0.1218 ppm	0.0630 ppm	7.8009 ppm	-0.0011 ppm	-0.0019 ppm
Concentration per Run 1	0.0019 ppm	0.0013 ppm	0.1234 ppm	0.0643 ppm	7.7523 ppm	-0.0088 ppm	-0.0008 ppm
Concentration per Run 2	0.0020 ppm	0.0007 ppm	0.1217 ppm	0.0624 ppm	7.8358 ppm	-0.0138 ppm	-0.0021 ppm
Concentration per Run 3	0.0019 ppm	0.0009 ppm	0.1204 ppm	0.0622 ppm	7.8146 ppm	0.0194 ppm	-0.0029 ppm
Concentration RSD	0.9 %	30.6 %	1.2 %	1.8 %	0.6 %	1,675.2 %	53.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7336 ppm	0.0205 ppm	0.0039 ppm	1.2241 ppm	0.0273 ppm	36.1977 ppm	0.3722 ppm
Concentration per Run 1	0.7443 ppm	0.0205 ppm	0.0039 ppm	1.2155 ppm	0.0282 ppm	36.4721 ppm	0.3787 ppm
Concentration per Run 2	0.7314 ppm	0.0205 ppm	0.0036 ppm	1.2252 ppm	0.0268 ppm	36.0859 ppm	0.3691 ppm
Concentration per Run 3	0.7250 ppm	0.0206 ppm	0.0041 ppm	1.2315 ppm	0.0269 ppm	36.0352 ppm	0.3688 ppm
Concentration RSD	1.3 %	0.5 %	6.8 %	0.7 %	2.8 %	0.7 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0074 ppm	0.2142 ppm	0.0987 ppm	0.0077 ppm	0.0099 ppm	-0.0004 ppm	0.0205 ppm
Concentration per Run 1	0.0082 ppm	0.2125 ppm	0.1002 ppm	0.0077 ppm	0.0102 ppm	0.0007 ppm	0.0208 ppm
Concentration per Run 2	0.0081 ppm	0.2109 ppm	0.0986 ppm	0.0077 ppm	0.0102 ppm	-0.0003 ppm	0.0205 ppm
Concentration per Run 3	0.0060 ppm	0.2193 ppm	0.0972 ppm	0.0078 ppm	0.0093 ppm	-0.0015 ppm	0.0202 ppm
Concentration RSD	16.9 %	2.1 %	1.5 %	1.1 %	5.2 %	312.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0830 ppm	99.9657 %	102.0350 %	101.3060 %	98.9923 %	100.7229 %	101.4472 %
Concentration per Run 1	0.0837 ppm	97.8485 %	101.4448 %	100.7056 %	97.8178 %	100.2202 %	101.3120 %
Concentration per Run 2	0.0831 ppm	100.5114 %	101.2696 %	101.6568 %	99.6916 %	99.9398 %	101.7156 %
Concentration per Run 3	0.0823 ppm	101.5374 %	103.3905 %	101.5557 %	99.4676 %	102.0089 %	101.3140 %
Concentration RSD	0.9 %	1.9 %	1.2 %	0.5 %	1.0 %	1.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-02D20 WG1936048
Analysis started at: 6/19/2024 12:53:56 PM
Rack 2
Vial 5
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0137 ppm	0.6500 ppm	0.0154 ppm	0.0091 ppm	0.0605 ppm	0.0001 ppm	2.8641 ppm
Concentration per Run 1	0.0141 ppm	0.6448 ppm	0.0155 ppm	0.0095 ppm	0.0613 ppm	0.0001 ppm	2.8670 ppm
Concentration per Run 2	0.0134 ppm	0.6582 ppm	0.0156 ppm	0.0088 ppm	0.0601 ppm	0.0001 ppm	2.8694 ppm
Concentration per Run 3	0.0137 ppm	0.6470 ppm	0.0152 ppm	0.0091 ppm	0.0601 ppm	0.0001 ppm	2.8558 ppm
Concentration RSD	2.3 %	1.1 %	1.3 %	4.1 %	1.2 %	16.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0091 ppm	0.0036 ppm	0.2105 ppm	0.0971 ppm	9.2139 ppm	0.0275 ppm	-0.0036 ppm
Concentration per Run 1	0.0092 ppm	0.0040 ppm	0.2150 ppm	0.0995 ppm	9.1980 ppm	0.0433 ppm	-0.0037 ppm
Concentration per Run 2	0.0092 ppm	0.0030 ppm	0.2097 ppm	0.0968 ppm	9.2192 ppm	0.0244 ppm	-0.0025 ppm
Concentration per Run 3	0.0088 ppm	0.0037 ppm	0.2068 ppm	0.0952 ppm	9.2246 ppm	0.0148 ppm	-0.0047 ppm
Concentration RSD	2.4 %	14.9 %	2.0 %	2.3 %	0.2 %	52.7 %	30.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1470 ppm	0.0750 ppm	0.0056 ppm	2.5489 ppm	0.0798 ppm	61.6598 ppm	0.3887 ppm
Concentration per Run 1	2.1999 ppm	0.0752 ppm	0.0058 ppm	2.5430 ppm	0.0812 ppm	61.9378 ppm	0.4000 ppm
Concentration per Run 2	2.1390 ppm	0.0750 ppm	0.0055 ppm	2.5495 ppm	0.0797 ppm	61.5751 ppm	0.3850 ppm
Concentration per Run 3	2.1021 ppm	0.0747 ppm	0.0053 ppm	2.5541 ppm	0.0785 ppm	61.4665 ppm	0.3812 ppm
Concentration RSD	2.3 %	0.3 %	4.7 %	0.2 %	1.7 %	0.4 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0112 ppm	0.2160 ppm	0.2703 ppm	0.0151 ppm	0.0180 ppm	-0.0002 ppm	0.0821 ppm
Concentration per Run 1	0.0121 ppm	0.2264 ppm	0.2747 ppm	0.0150 ppm	0.0186 ppm	-0.0013 ppm	0.0840 ppm
Concentration per Run 2	0.0111 ppm	0.2106 ppm	0.2726 ppm	0.0151 ppm	0.0178 ppm	0.0010 ppm	0.0820 ppm
Concentration per Run 3	0.0106 ppm	0.2109 ppm	0.2638 ppm	0.0151 ppm	0.0175 ppm	-0.0003 ppm	0.0803 ppm
Concentration RSD	6.8 %	4.2 %	2.1 %	0.4 %	3.3 %	603.6 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4648 ppm	100.5745 %	102.4938 %	101.4111 %	98.8621 %	100.9918 %	101.2804 %
Concentration per Run 1	0.4757 ppm	98.1874 %	102.7038 %	101.0200 %	97.3967 %	101.1418 %	101.1093 %
Concentration per Run 2	0.4639 ppm	101.0643 %	102.6446 %	101.5122 %	99.2742 %	100.9506 %	101.4705 %
Concentration per Run 3	0.4548 ppm	102.4717 %	102.1330 %	101.7012 %	99.9155 %	100.8831 %	101.2615 %
Concentration RSD	2.3 %	2.2 %	0.3 %	0.3 %	1.3 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434455-01D2 WG1936224
Analysis started at: 6/19/2024 12:57:53 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	57.6479 ppm	0.0309 ppm	0.0095 ppm	0.2839 ppm	0.0031 ppm	12.7642 ppm
Concentration per Run 1	-0.0008 ppm	57.8704 ppm	0.0318 ppm	0.0094 ppm	0.2847 ppm	0.0031 ppm	12.8138 ppm
Concentration per Run 2	-0.0005 ppm	57.4744 ppm	0.0313 ppm	0.0104 ppm	0.2832 ppm	0.0031 ppm	12.6757 ppm
Concentration per Run 3	-0.0005 ppm	57.5988 ppm	0.0294 ppm	0.0088 ppm	0.2839 ppm	0.0032 ppm	12.8030 ppm
Concentration RSD	32.9 %	0.4 %	4.1 %	8.3 %	0.3 %	1.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0360 ppm	0.1254 ppm	0.1748 ppm	107.3568 ppm	7.5739 ppm	0.0925 ppm
Concentration per Run 1	0.0013 ppm	0.0370 ppm	0.1268 ppm	0.1776 ppm	107.4792 ppm	7.6259 ppm	0.0924 ppm
Concentration per Run 2	0.0012 ppm	0.0360 ppm	0.1250 ppm	0.1744 ppm	106.9530 ppm	7.5725 ppm	0.0941 ppm
Concentration per Run 3	0.0012 ppm	0.0351 ppm	0.1244 ppm	0.1724 ppm	107.6382 ppm	7.5234 ppm	0.0910 ppm
Concentration RSD	5.6 %	2.5 %	1.0 %	1.5 %	0.3 %	0.7 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.1465 ppm	1.8892 ppm	0.0040 ppm	0.7841 ppm	0.0786 ppm	0.4712 ppm	0.0040 ppm
Concentration per Run 1	18.4501 ppm	1.8914 ppm	0.0044 ppm	0.8083 ppm	0.0803 ppm	0.4704 ppm	0.0039 ppm
Concentration per Run 2	18.1244 ppm	1.8816 ppm	0.0036 ppm	0.7771 ppm	0.0771 ppm	0.4690 ppm	0.0030 ppm
Concentration per Run 3	17.8651 ppm	1.8947 ppm	0.0039 ppm	0.7668 ppm	0.0785 ppm	0.4743 ppm	0.0049 ppm
Concentration RSD	1.6 %	0.4 %	9.6 %	2.8 %	2.0 %	0.6 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	10.8600 ppm	0.0480 ppm	0.0680 ppm	2.4200 ppm	0.0018 ppm	0.1239 ppm
Concentration per Run 1	-0.0006 ppm	11.0901 ppm	0.0483 ppm	0.0682 ppm	2.4654 ppm	0.0044 ppm	0.1256 ppm
Concentration per Run 2	0.0009 ppm	11.1408 ppm	0.0484 ppm	0.0677 ppm	2.4142 ppm	0.0015 ppm	0.1238 ppm
Concentration per Run 3	0.0007 ppm	10.3493 ppm	0.0471 ppm	0.0681 ppm	2.3805 ppm	-0.0004 ppm	0.1224 ppm
Concentration RSD	231.7 %	4.1 %	1.6 %	0.4 %	1.8 %	134.6 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5504 ppm	104.2671 %	107.3518 %	98.8487 %	130.0158 %	136.3110 %	133.4285 %
Concentration per Run 1	0.5592 ppm	102.6222 %	106.6928 %	99.0616 %	128.4482 %	135.8872 %	133.6660 %
Concentration per Run 2	0.5483 ppm	104.6248 %	108.0086 %	98.9053 %	130.8871 %	137.1930 %	133.6843 %
Concentration per Run 3	0.5437 ppm	105.5544 %	107.3541 %	98.5792 %	130.7120 %	135.8528 %	132.9353 %
Concentration RSD	1.4 %	1.4 %	0.6 %	0.2 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434455-02D2 WG1936224
Analysis started at: 6/19/2024 1:01:50 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	72.3575 ppm	0.0316 ppm	0.0071 ppm	0.1490 ppm	0.0025 ppm	4.3671 ppm
Concentration per Run 1	-0.0005 ppm	72.4900 ppm	0.0299 ppm	0.0074 ppm	0.1506 ppm	0.0025 ppm	4.3786 ppm
Concentration per Run 2	-0.0011 ppm	72.2855 ppm	0.0343 ppm	0.0068 ppm	0.1482 ppm	0.0026 ppm	4.3618 ppm
Concentration per Run 3	-0.0008 ppm	72.2970 ppm	0.0305 ppm	0.0070 ppm	0.1482 ppm	0.0025 ppm	4.3608 ppm
Concentration RSD	34.0 %	0.2 %	7.7 %	4.6 %	0.9 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0184 ppm	0.0858 ppm	0.0463 ppm	85.8223 ppm	4.3757 ppm	0.0564 ppm
Concentration per Run 1	0.0006 ppm	0.0185 ppm	0.0871 ppm	0.0473 ppm	85.9108 ppm	4.4763 ppm	0.0573 ppm
Concentration per Run 2	0.0005 ppm	0.0186 ppm	0.0856 ppm	0.0457 ppm	86.1584 ppm	4.3168 ppm	0.0559 ppm
Concentration per Run 3	0.0004 ppm	0.0180 ppm	0.0846 ppm	0.0458 ppm	85.3978 ppm	4.3342 ppm	0.0560 ppm
Concentration RSD	15.1 %	1.7 %	1.5 %	1.9 %	0.5 %	2.0 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.7605 ppm	1.1530 ppm	0.0031 ppm	0.4928 ppm	0.0361 ppm	0.1860 ppm	-0.0019 ppm
Concentration per Run 1	9.9189 ppm	1.1539 ppm	0.0029 ppm	0.5104 ppm	0.0366 ppm	0.1843 ppm	-0.0001 ppm
Concentration per Run 2	9.7243 ppm	1.1571 ppm	0.0034 ppm	0.4877 ppm	0.0360 ppm	0.1859 ppm	0.0017 ppm
Concentration per Run 3	9.6382 ppm	1.1480 ppm	0.0030 ppm	0.4804 ppm	0.0357 ppm	0.1876 ppm	-0.0072 ppm
Concentration RSD	1.5 %	0.4 %	9.1 %	3.2 %	1.3 %	0.9 %	252.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	14.8895 ppm	0.0062 ppm	0.0322 ppm	2.5494 ppm	0.0033 ppm	0.1198 ppm
Concentration per Run 1	0.0019 ppm	15.2089 ppm	0.0059 ppm	0.0326 ppm	2.6003 ppm	0.0039 ppm	0.1215 ppm
Concentration per Run 2	0.0040 ppm	14.7892 ppm	0.0066 ppm	0.0321 ppm	2.5345 ppm	0.0025 ppm	0.1193 ppm
Concentration per Run 3	0.0026 ppm	14.6705 ppm	0.0062 ppm	0.0320 ppm	2.5134 ppm	0.0033 ppm	0.1185 ppm
Concentration RSD	37.0 %	1.9 %	5.9 %	1.0 %	1.8 %	21.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1676 ppm	104.4455 %	107.2672 %	98.8782 %	121.0713 %	126.5152 %	123.7165 %
Concentration per Run 1	0.1702 ppm	102.7813 %	107.6439 %	98.3370 %	119.9853 %	127.4835 %	123.2951 %
Concentration per Run 2	0.1674 ppm	104.9172 %	106.9464 %	98.8471 %	121.3396 %	125.7431 %	123.9013 %
Concentration per Run 3	0.1650 ppm	105.6379 %	107.2114 %	99.4504 %	121.8889 %	126.3191 %	123.9529 %
Concentration RSD	1.6 %	1.4 %	0.3 %	0.6 %	0.8 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434455-03D2 WG1936224
Analysis started at: 6/19/2024 1:05:48 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	79.2192 ppm	0.0352 ppm	0.0080 ppm	0.3020 ppm	0.0042 ppm	14.6419 ppm
Concentration per Run 1	-0.0009 ppm	79.3410 ppm	0.0382 ppm	0.0076 ppm	0.3019 ppm	0.0042 ppm	14.6767 ppm
Concentration per Run 2	-0.0010 ppm	79.0626 ppm	0.0323 ppm	0.0087 ppm	0.3032 ppm	0.0042 ppm	14.6567 ppm
Concentration per Run 3	-0.0007 ppm	79.2539 ppm	0.0352 ppm	0.0078 ppm	0.3008 ppm	0.0042 ppm	14.5925 ppm
Concentration RSD	17.7 %	0.2 %	8.3 %	7.2 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0335 ppm	0.1262 ppm	0.1061 ppm	124.2747 ppm	8.9876 ppm	0.1015 ppm
Concentration per Run 1	0.0011 ppm	0.0340 ppm	0.1280 ppm	0.1073 ppm	124.5751 ppm	9.0480 ppm	0.1038 ppm
Concentration per Run 2	0.0012 ppm	0.0328 ppm	0.1255 ppm	0.1054 ppm	123.8166 ppm	8.9962 ppm	0.1008 ppm
Concentration per Run 3	0.0012 ppm	0.0336 ppm	0.1252 ppm	0.1057 ppm	124.4325 ppm	8.9185 ppm	0.1000 ppm
Concentration RSD	4.5 %	2.0 %	1.2 %	0.9 %	0.3 %	0.7 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4192 ppm	2.0683 ppm	0.0066 ppm	1.2760 ppm	0.0718 ppm	0.2181 ppm	0.0017 ppm
Concentration per Run 1	20.6562 ppm	2.0720 ppm	0.0070 ppm	1.2858 ppm	0.0733 ppm	0.2183 ppm	-0.0012 ppm
Concentration per Run 2	20.3311 ppm	2.0638 ppm	0.0065 ppm	1.2734 ppm	0.0713 ppm	0.2179 ppm	0.0012 ppm
Concentration per Run 3	20.2702 ppm	2.0690 ppm	0.0062 ppm	1.2687 ppm	0.0709 ppm	0.2180 ppm	0.0052 ppm
Concentration RSD	1.0 %	0.2 %	6.1 %	0.7 %	1.8 %	0.1 %	186.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	15.4736 ppm	0.0084 ppm	0.0669 ppm	4.0594 ppm	0.0022 ppm	0.1593 ppm
Concentration per Run 1	0.0009 ppm	15.9061 ppm	0.0082 ppm	0.0670 ppm	4.1143 ppm	0.0022 ppm	0.1610 ppm
Concentration per Run 2	0.0004 ppm	15.3861 ppm	0.0087 ppm	0.0668 ppm	4.0459 ppm	0.0027 ppm	0.1586 ppm
Concentration per Run 3	-0.0015 ppm	15.1285 ppm	0.0084 ppm	0.0669 ppm	4.0180 ppm	0.0018 ppm	0.1584 ppm
Concentration RSD	4,655.5 %	2.6 %	2.8 %	0.1 %	1.2 %	20.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3590 ppm	105.1678 %	106.5180 %	95.9933 %	133.8552 %	138.4623 %	136.2183 %
Concentration per Run 1	0.3629 ppm	104.2927 %	106.7452 %	96.2027 %	133.0833 %	138.7482 %	136.5114 %
Concentration per Run 2	0.3582 ppm	105.8136 %	106.9857 %	95.9980 %	134.8268 %	138.5577 %	136.1599 %
Concentration per Run 3	0.3560 ppm	105.3970 %	105.8230 %	95.7793 %	133.6556 %	138.0810 %	135.9835 %
Concentration RSD	1.0 %	0.7 %	0.6 %	0.2 %	0.7 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432998-02D40 WG1936048
Analysis started at: 6/19/2024 1:09:45 PM
Rack 2
Vial 6
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	0.3306 ppm	0.0082 ppm	0.0041 ppm	0.0294 ppm	0.0000 ppm	1.4295 ppm
Concentration per Run 1	0.0068 ppm	0.3295 ppm	0.0083 ppm	0.0043 ppm	0.0294 ppm	0.0001 ppm	1.4283 ppm
Concentration per Run 2	0.0069 ppm	0.3311 ppm	0.0079 ppm	0.0045 ppm	0.0296 ppm	0.0000 ppm	1.4302 ppm
Concentration per Run 3	0.0067 ppm	0.3313 ppm	0.0084 ppm	0.0035 ppm	0.0292 ppm	0.0000 ppm	1.4301 ppm
Concentration RSD	1.3 %	0.3 %	3.3 %	12.6 %	0.6 %	39.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.0015 ppm	0.1064 ppm	0.0493 ppm	4.5670 ppm	-0.0046 ppm	-0.0051 ppm
Concentration per Run 1	0.0046 ppm	0.0021 ppm	0.1092 ppm	0.0508 ppm	4.5750 ppm	-0.0044 ppm	-0.0041 ppm
Concentration per Run 2	0.0046 ppm	0.0015 ppm	0.1055 ppm	0.0489 ppm	4.5748 ppm	-0.0131 ppm	-0.0061 ppm
Concentration per Run 3	0.0046 ppm	0.0010 ppm	0.1044 ppm	0.0483 ppm	4.5510 ppm	0.0036 ppm	-0.0051 ppm
Concentration RSD	0.5 %	36.8 %	2.4 %	2.6 %	0.3 %	179.8 %	19.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0816 ppm	0.0375 ppm	0.0023 ppm	1.2776 ppm	0.0396 ppm	31.2887 ppm	0.1952 ppm
Concentration per Run 1	1.1107 ppm	0.0375 ppm	0.0024 ppm	1.2835 ppm	0.0403 ppm	31.5887 ppm	0.1995 ppm
Concentration per Run 2	1.0754 ppm	0.0377 ppm	0.0025 ppm	1.2766 ppm	0.0391 ppm	31.3216 ppm	0.1915 ppm
Concentration per Run 3	1.0586 ppm	0.0373 ppm	0.0019 ppm	1.2726 ppm	0.0394 ppm	30.9557 ppm	0.1946 ppm
Concentration RSD	2.5 %	0.5 %	13.9 %	0.4 %	1.6 %	1.0 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0065 ppm	0.1383 ppm	0.1361 ppm	0.0075 ppm	0.0118 ppm	0.0011 ppm	0.0408 ppm
Concentration per Run 1	0.0057 ppm	0.1531 ppm	0.1406 ppm	0.0076 ppm	0.0159 ppm	0.0016 ppm	0.0418 ppm
Concentration per Run 2	0.0083 ppm	0.1343 ppm	0.1341 ppm	0.0074 ppm	0.0102 ppm	0.0004 ppm	0.0408 ppm
Concentration per Run 3	0.0054 ppm	0.1275 ppm	0.1335 ppm	0.0075 ppm	0.0093 ppm	0.0013 ppm	0.0399 ppm
Concentration RSD	24.6 %	9.6 %	2.9 %	1.5 %	30.5 %	59.1 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2335 ppm	100.3426 %	103.1088 %	101.4605 %	99.3189 %	101.5742 %	101.7848 %
Concentration per Run 1	0.2403 ppm	98.3117 %	103.0837 %	101.4283 %	98.3614 %	102.0149 %	101.9194 %
Concentration per Run 2	0.2306 ppm	100.5344 %	102.3716 %	101.0155 %	99.2077 %	100.9210 %	101.4073 %
Concentration per Run 3	0.2296 ppm	102.1817 %	103.8712 %	101.9378 %	100.3875 %	101.7868 %	102.0277 %
Concentration RSD	2.5 %	1.9 %	0.7 %	0.5 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 1:22:53 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4951 ppm	0.4837 ppm	0.4844 ppm	0.4840 ppm	0.4917 ppm	0.5068 ppm	0.4989 ppm
Concentration per Run 1	0.5002 ppm	0.4781 ppm	0.4841 ppm	0.4894 ppm	0.4918 ppm	0.5060 ppm	0.5019 ppm
Concentration per Run 2	0.4947 ppm	0.4873 ppm	0.4838 ppm	0.4828 ppm	0.4925 ppm	0.5072 ppm	0.4982 ppm
Concentration per Run 3	0.4902 ppm	0.4856 ppm	0.4852 ppm	0.4798 ppm	0.4907 ppm	0.5073 ppm	0.4966 ppm
Recovery Percentage 1	99.014 %	96.732 %	96.872 %	96.794 %	98.334 %	101.365 %	99.780 %
Concentration RSD	1.0 %	1.0 %	0.1 %	1.0 %	0.2 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4986 ppm	0.5014 ppm	0.4905 ppm	0.4845 ppm	0.5184 ppm	5.2501 ppm	0.4871 ppm
Concentration per Run 1	0.5050 ppm	0.5070 ppm	0.4971 ppm	0.4897 ppm	0.5158 ppm	5.2707 ppm	0.4901 ppm
Concentration per Run 2	0.4989 ppm	0.5007 ppm	0.4891 ppm	0.4830 ppm	0.5213 ppm	5.2587 ppm	0.4899 ppm
Concentration per Run 3	0.4918 ppm	0.4965 ppm	0.4851 ppm	0.4809 ppm	0.5181 ppm	5.2209 ppm	0.4814 ppm
Recovery Percentage 1	99.715 %	100.273 %	98.092 %	96.903 %	103.673 %	105.002 %	97.426 %
Concentration RSD	1.3 %	1.1 %	1.2 %	0.9 %	0.5 %	0.5 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4888 ppm	0.5033 ppm	0.4891 ppm	10.5697 ppm	0.5058 ppm	0.4879 ppm	0.4856 ppm
Concentration per Run 1	0.4923 ppm	0.5026 ppm	0.4920 ppm	10.5744 ppm	0.5103 ppm	0.4910 ppm	0.4947 ppm
Concentration per Run 2	0.4897 ppm	0.5035 ppm	0.4875 ppm	10.5246 ppm	0.5075 ppm	0.4870 ppm	0.4839 ppm
Concentration per Run 3	0.4844 ppm	0.5038 ppm	0.4877 ppm	10.6102 ppm	0.4996 ppm	0.4858 ppm	0.4782 ppm
Recovery Percentage 1	97.755 %	100.664 %	97.817 %	105.697 %	101.163 %	97.583 %	97.122 %
Concentration RSD	0.8 %	0.1 %	0.5 %	0.4 %	1.1 %	0.6 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4842 ppm	5.1556 ppm	0.5159 ppm	0.4974 ppm	0.5018 ppm	0.4867 ppm	0.4918 ppm
Concentration per Run 1	0.4841 ppm	5.2074 ppm	0.5224 ppm	0.4966 ppm	0.5076 ppm	0.4871 ppm	0.4977 ppm
Concentration per Run 2	0.4869 ppm	5.1396 ppm	0.5142 ppm	0.4977 ppm	0.5018 ppm	0.4855 ppm	0.4916 ppm
Concentration per Run 3	0.4815 ppm	5.1197 ppm	0.5111 ppm	0.4980 ppm	0.4961 ppm	0.4875 ppm	0.4861 ppm
Recovery Percentage 1	96.837 %	98.201 %	103.179 %	99.487 %	100.364 %	97.338 %	98.364 %
Concentration RSD	0.6 %	0.9 %	1.1 %	0.1 %	1.1 %	0.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5056 ppm	102.6531 %	102.4876 %	101.3824 %	97.8163 %	99.2999 %	99.5143 %
Concentration per Run 1	0.5123 ppm	101.8125 %	101.7525 %	101.0509 %	97.3024 %	98.4245 %	99.6370 %
Concentration per Run 2	0.5060 ppm	102.2438 %	104.0864 %	101.8939 %	97.4017 %	100.8458 %	99.9330 %
Concentration per Run 3	0.4985 ppm	103.9031 %	101.6239 %	101.2023 %	98.7447 %	98.6296 %	98.9728 %
Recovery Percentage 1	101.116 %						
Concentration RSD	1.4 %	1.1 %	1.4 %	0.4 %	0.8 %	1.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 1:26:57 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0051 ppm	-0.0001 ppm	0.0007 ppm	-0.0005 ppm	0.0001 ppm	0.0110 ppm
Concentration per Run 1	-0.0003 ppm	0.0006 ppm	-0.0011 ppm	0.0008 ppm	-0.0006 ppm	0.0001 ppm	0.0116 ppm
Concentration per Run 2	-0.0008 ppm	-0.0082 ppm	0.0004 ppm	0.0010 ppm	-0.0004 ppm	0.0001 ppm	0.0086 ppm
Concentration per Run 3	-0.0004 ppm	-0.0076 ppm	0.0003 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0126 ppm
Recovery Percentage 1	-7.129 %	-5.067 %	-4.664 %	2.443 %	-4.540 %	2.100 %	10.972 %
Concentration RSD	53.7 %	96.8 %	596.0 %	41.0 %	34.4 %	30.3 %	18.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0007 ppm	0.0074 ppm	-0.0708 ppm	-0.0034 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm	0.0064 ppm	-0.0533 ppm	-0.0022 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0089 ppm	-0.1003 ppm	-0.0052 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0069 ppm	-0.0588 ppm	-0.0030 ppm
Recovery Percentage 1	1.873 %	1.449 %	-0.394 %	6.832 %	14.785 %	-2.833 %	-34.351 %
Concentration RSD	62.8 %	90.6 %	307.7 %	37.0 %	18.1 %	36.3 %	46.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0213 ppm	-0.0003 ppm	-0.0015 ppm	-0.0003 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	0.0005 ppm	0.0222 ppm	0.0006 ppm	-0.0016 ppm	-0.0024 ppm
Concentration per Run 2	-0.0008 ppm	0.0003 ppm	0.0002 ppm	0.0224 ppm	-0.0004 ppm	-0.0016 ppm	-0.0016 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0192 ppm	-0.0009 ppm	-0.0012 ppm	0.0030 ppm
Recovery Percentage 1	0.074 %	3.211 %	0.511 %	1.064 %	-1.040 %	-14.658 %	-0.634 %
Concentration RSD	1,002.4 %	23.0 %	105.7 %	8.4 %	293.7 %	17.1 %	922.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	-0.0003 ppm	0.0009 ppm	-0.0003 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	-0.0015 ppm	-0.0007 ppm	-0.0003 ppm	0.0001 ppm	0.0013 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0006 ppm	0.0006 ppm	0.0006 ppm	-0.0001 ppm	0.0010 ppm	-0.0002 ppm	-0.0005 ppm
Recovery Percentage 1	-3.885 %	0.051 %	-0.038 %	-0.683 %	10.435 %	1.342 %	-3.255 %
Concentration RSD	264.0 %	338.1 %	2,627.7 %	186.5 %	23.7 %	188.1 %	43.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	98.7385 %	99.4617 %	98.7628 %	99.6162 %	99.9354 %	100.9120 %
Concentration per Run 1	0.0011 ppm	97.4066 %	99.6140 %	98.9206 %	99.3808 %	100.3896 %	101.4387 %
Concentration per Run 2	0.0011 ppm	99.0948 %	98.9953 %	98.7512 %	99.7912 %	99.5089 %	100.8456 %
Concentration per Run 3	0.0013 ppm	99.7141 %	99.7757 %	98.6164 %	99.6764 %	99.9076 %	100.4515 %
Recovery Percentage 1	23.274 %						
Concentration RSD	10.5 %	1.2 %	0.4 %	0.2 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-1 WG1936224
Analysis started at: 6/19/2024 1:32:24 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0120 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0270 ppm
Concentration per Run 1	-0.0008 ppm	0.0091 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0257 ppm
Concentration per Run 2	-0.0009 ppm	0.0114 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0260 ppm
Concentration per Run 3	-0.0009 ppm	0.0157 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0293 ppm
Recovery Percentage 1	-12.577 %	12.046 %	-2.397 %	0.173 %	-0.285 %	0.490 %	27.022 %
Concentration RSD	7.7 %	27.8 %	683.1 %	128.0 %	248.8 %	114.2 %	7.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0003 ppm	0.1268 ppm	-0.0885 ppm	-0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0000 ppm	0.1253 ppm	-0.0708 ppm	-0.0053 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0002 ppm	0.1293 ppm	-0.0987 ppm	-0.0039 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm	0.1258 ppm	-0.0961 ppm	-0.0022 ppm
Recovery Percentage 1	0.238 %	-0.971 %	7.748 %	2.765 %	253.593 %	-3.542 %	-37.916 %
Concentration RSD	407.9 %	108.1 %	27.1 %	93.9 %	1.7 %	17.4 %	40.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0073 ppm	0.0007 ppm	-0.0006 ppm	0.0352 ppm	-0.0003 ppm	-0.0016 ppm	-0.0018 ppm
Concentration per Run 1	0.0060 ppm	0.0008 ppm	-0.0002 ppm	0.0349 ppm	-0.0005 ppm	-0.0017 ppm	-0.0010 ppm
Concentration per Run 2	0.0078 ppm	0.0006 ppm	-0.0006 ppm	0.0315 ppm	-0.0004 ppm	-0.0018 ppm	-0.0013 ppm
Concentration per Run 3	0.0081 ppm	0.0008 ppm	-0.0011 ppm	0.0391 ppm	0.0000 ppm	-0.0013 ppm	-0.0030 ppm
Recovery Percentage 1	7.298 %	7.307 %	-1.217 %	1.758 %	-1.186 %	-16.113 %	-3.501 %
Concentration RSD	15.5 %	18.7 %	72.7 %	10.8 %	80.1 %	15.6 %	61.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0125 ppm	-0.0004 ppm	-0.0001 ppm	0.0014 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0022 ppm	0.0124 ppm	-0.0008 ppm	-0.0001 ppm	0.0013 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0117 ppm	-0.0006 ppm	-0.0001 ppm	0.0012 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 3	-0.0011 ppm	0.0136 ppm	0.0001 ppm	-0.0001 ppm	0.0018 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	4.170 %	2.509 %	-0.796 %	-1.094 %	14.125 %	1.866 %	-1.748 %
Concentration RSD	396.1 %	7.6 %	121.6 %	30.7 %	21.8 %	98.9 %	70.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	119.3648 %	103.1927 %	107.9319 %	103.1326 %	98.9184 %	102.9471 %
Concentration per Run 1	0.0018 ppm	122.0155 %	103.0318 %	108.9506 %	102.8344 %	98.5310 %	103.1057 %
Concentration per Run 2	0.0017 ppm	119.5230 %	103.3395 %	107.8708 %	103.3423 %	98.9256 %	102.4706 %
Concentration per Run 3	0.0020 ppm	116.5558 %	103.2067 %	106.9743 %	103.2210 %	99.2987 %	103.2651 %
Recovery Percentage 1	36.420 %						
Concentration RSD	9.6 %	2.3 %	0.1 %	0.9 %	0.3 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-2D2 WG1936224
Analysis started at: 6/19/2024 1:36:35 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3280 ppm	17.4809 ppm	1.2173 ppm	0.9141 ppm	1.2104 ppm	0.6411 ppm	19.2242 ppm
Concentration per Run 1	0.3355 ppm	17.6451 ppm	1.2210 ppm	0.9336 ppm	1.2162 ppm	0.6435 ppm	19.3554 ppm
Concentration per Run 2	0.3271 ppm	17.4394 ppm	1.2183 ppm	0.9074 ppm	1.2070 ppm	0.6413 ppm	19.1743 ppm
Concentration per Run 3	0.3216 ppm	17.3582 ppm	1.2125 ppm	0.9012 ppm	1.2080 ppm	0.6386 ppm	19.1430 ppm
Concentration RSD	2.1 %	0.8 %	0.4 %	1.9 %	0.4 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8395 ppm	0.3219 ppm	0.7209 ppm	0.8135 ppm	21.4790 ppm	4.2821 ppm	0.4828 ppm
Concentration per Run 1	0.8629 ppm	0.3292 ppm	0.7384 ppm	0.8323 ppm	21.6973 ppm	4.3527 ppm	0.4907 ppm
Concentration per Run 2	0.8294 ppm	0.3199 ppm	0.7153 ppm	0.8091 ppm	21.3413 ppm	4.2585 ppm	0.4745 ppm
Concentration per Run 3	0.8263 ppm	0.3166 ppm	0.7090 ppm	0.7990 ppm	21.3983 ppm	4.2352 ppm	0.4830 ppm
Concentration RSD	2.4 %	2.0 %	2.1 %	2.1 %	0.9 %	1.5 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7482 ppm	2.0206 ppm	0.5403 ppm	7.2420 ppm	1.2571 ppm	0.3601 ppm	0.8162 ppm
Concentration per Run 1	5.8770 ppm	2.0324 ppm	0.5471 ppm	7.2887 ppm	1.2901 ppm	0.3596 ppm	0.8355 ppm
Concentration per Run 2	5.7202 ppm	2.0173 ppm	0.5354 ppm	7.2206 ppm	1.2461 ppm	0.3605 ppm	0.8065 ppm
Concentration per Run 3	5.6475 ppm	2.0121 ppm	0.5385 ppm	7.2166 ppm	1.2350 ppm	0.3601 ppm	0.8066 ppm
Concentration RSD	2.0 %	0.5 %	1.1 %	0.6 %	2.3 %	0.1 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5887 ppm	7.8511 ppm	0.3036 ppm	0.5235 ppm	1.2244 ppm	0.8188 ppm	0.4063 ppm
Concentration per Run 1	0.5897 ppm	8.1539 ppm	0.3116 ppm	0.5248 ppm	1.2537 ppm	0.8210 ppm	0.4164 ppm
Concentration per Run 2	0.5878 ppm	7.7462 ppm	0.3002 ppm	0.5237 ppm	1.2121 ppm	0.8210 ppm	0.4039 ppm
Concentration per Run 3	0.5885 ppm	7.6532 ppm	0.2991 ppm	0.5220 ppm	1.2075 ppm	0.8145 ppm	0.3987 ppm
Concentration RSD	0.2 %	3.4 %	2.3 %	0.3 %	2.1 %	0.5 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6593 ppm	102.0623 %	103.6553 %	99.3837 %	104.8806 %	106.9297 %	106.6838 %
Concentration per Run 1	0.6766 ppm	100.6986 %	102.2016 %	99.0297 %	104.2733 %	105.7761 %	106.4595 %
Concentration per Run 2	0.6530 ppm	102.3998 %	104.4149 %	99.6587 %	105.0109 %	107.5722 %	106.8735 %
Concentration per Run 3	0.6484 ppm	103.0883 %	104.3494 %	99.4628 %	105.3575 %	107.4408 %	106.7183 %
Concentration RSD	2.3 %	1.2 %	1.2 %	0.3 %	0.5 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-3D2 WG1936224
Analysis started at: 6/19/2024 1:40:31 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3404 ppm	18.3383 ppm	1.2431 ppm	0.9455 ppm	1.0738 ppm	0.6416 ppm	19.0501 ppm
Concentration per Run 1	0.3481 ppm	18.4350 ppm	1.2590 ppm	0.9689 ppm	1.0776 ppm	0.6440 ppm	19.1597 ppm
Concentration per Run 2	0.3393 ppm	18.2148 ppm	1.2415 ppm	0.9444 ppm	1.0758 ppm	0.6403 ppm	19.0367 ppm
Concentration per Run 3	0.3337 ppm	18.3650 ppm	1.2287 ppm	0.9231 ppm	1.0682 ppm	0.6405 ppm	18.9539 ppm
Concentration RSD	2.1 %	0.6 %	1.2 %	2.4 %	0.5 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8497 ppm	0.3317 ppm	0.7340 ppm	0.8324 ppm	22.5948 ppm	4.3735 ppm	0.4914 ppm
Concentration per Run 1	0.8704 ppm	0.3396 ppm	0.7484 ppm	0.8567 ppm	22.6967 ppm	4.4202 ppm	0.4964 ppm
Concentration per Run 2	0.8493 ppm	0.3299 ppm	0.7325 ppm	0.8255 ppm	22.6011 ppm	4.3734 ppm	0.4929 ppm
Concentration per Run 3	0.8294 ppm	0.3257 ppm	0.7212 ppm	0.8151 ppm	22.4866 ppm	4.3268 ppm	0.4849 ppm
Concentration RSD	2.4 %	2.2 %	1.9 %	2.6 %	0.5 %	1.1 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0088 ppm	2.0657 ppm	0.5593 ppm	7.4160 ppm	1.2904 ppm	0.3752 ppm	0.8733 ppm
Concentration per Run 1	6.1489 ppm	2.0756 ppm	0.5650 ppm	7.4320 ppm	1.3173 ppm	0.3813 ppm	0.8918 ppm
Concentration per Run 2	5.9812 ppm	2.0624 ppm	0.5590 ppm	7.4107 ppm	1.2846 ppm	0.3737 ppm	0.8797 ppm
Concentration per Run 3	5.8964 ppm	2.0590 ppm	0.5539 ppm	7.4054 ppm	1.2694 ppm	0.3705 ppm	0.8483 ppm
Concentration RSD	2.1 %	0.4 %	1.0 %	0.2 %	1.9 %	1.5 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6022 ppm	5.6967 ppm	0.3137 ppm	0.4932 ppm	1.2662 ppm	0.8095 ppm	0.4198 ppm
Concentration per Run 1	0.6045 ppm	5.8994 ppm	0.3217 ppm	0.4952 ppm	1.2939 ppm	0.8148 ppm	0.4285 ppm
Concentration per Run 2	0.6010 ppm	5.5853 ppm	0.3115 ppm	0.4941 ppm	1.2558 ppm	0.8152 ppm	0.4204 ppm
Concentration per Run 3	0.6010 ppm	5.6052 ppm	0.3079 ppm	0.4902 ppm	1.2490 ppm	0.7984 ppm	0.4105 ppm
Concentration RSD	0.3 %	3.1 %	2.3 %	0.5 %	1.9 %	1.2 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6826 ppm	101.7343 %	103.2308 %	98.9234 %	105.4328 %	106.8850 %	106.6949 %
Concentration per Run 1	0.6975 ppm	100.2522 %	102.7212 %	98.4679 %	105.4059 %	106.6655 %	106.6768 %
Concentration per Run 2	0.6800 ppm	101.8891 %	103.3589 %	98.9895 %	104.9838 %	106.7389 %	106.8359 %
Concentration per Run 3	0.6702 ppm	103.0616 %	103.6124 %	99.3127 %	105.9088 %	107.2506 %	106.5720 %
Concentration RSD	2.0 %	1.4 %	0.4 %	0.4 %	0.4 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433379-01D2 WG1936224
Analysis started at: 6/19/2024 1:44:29 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0046 ppm	65.6463 ppm	0.2437 ppm	0.0193 ppm	0.4931 ppm	0.0039 ppm	124.7435 ppm
Concentration per Run 1	-0.0051 ppm	65.4876 ppm	0.2446 ppm	0.0199 ppm	0.4912 ppm	0.0040 ppm	124.9017 ppm
Concentration per Run 2	-0.0048 ppm	65.7140 ppm	0.2437 ppm	0.0193 ppm	0.4955 ppm	0.0038 ppm	124.4661 ppm
Concentration per Run 3	-0.0039 ppm	65.7372 ppm	0.2429 ppm	0.0187 ppm	0.4925 ppm	0.0039 ppm	124.8627 ppm
Concentration RSD	14.0 %	0.2 %	0.3 %	3.2 %	0.4 %	2.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0632 ppm	0.1347 ppm	0.2318 ppm	315.5024 ppm	21.5296 ppm	0.1048 ppm
Concentration per Run 1	0.0006 ppm	0.0637 ppm	0.1355 ppm	0.2336 ppm	315.1675 ppm	21.5717 ppm	0.1078 ppm
Concentration per Run 2	0.0005 ppm	0.0630 ppm	0.1345 ppm	0.2316 ppm	315.5475 ppm	21.5201 ppm	0.1040 ppm
Concentration per Run 3	0.0006 ppm	0.0628 ppm	0.1340 ppm	0.2303 ppm	315.7922 ppm	21.4969 ppm	0.1025 ppm
Concentration RSD	16.5 %	0.8 %	0.5 %	0.7 %	0.1 %	0.2 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.1920 ppm	2.5554 ppm	0.0124 ppm	0.9372 ppm	0.1234 ppm	0.5570 ppm	0.0276 ppm
Concentration per Run 1	77.0277 ppm	2.5544 ppm	0.0128 ppm	0.9374 ppm	0.1245 ppm	0.5585 ppm	0.0252 ppm
Concentration per Run 2	75.9171 ppm	2.5468 ppm	0.0129 ppm	0.9415 ppm	0.1229 ppm	0.5580 ppm	0.0267 ppm
Concentration per Run 3	75.6313 ppm	2.5649 ppm	0.0115 ppm	0.9326 ppm	0.1227 ppm	0.5546 ppm	0.0310 ppm
Concentration RSD	1.0 %	0.4 %	6.3 %	0.5 %	0.8 %	0.4 %	10.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0488 ppm	4.2741 ppm	0.0326 ppm	0.2106 ppm	6.1127 ppm	0.0059 ppm	0.1768 ppm
Concentration per Run 1	0.0468 ppm	4.5101 ppm	0.0331 ppm	0.2108 ppm	6.1738 ppm	0.0058 ppm	0.1798 ppm
Concentration per Run 2	0.0493 ppm	4.2512 ppm	0.0323 ppm	0.2107 ppm	6.0845 ppm	0.0071 ppm	0.1756 ppm
Concentration per Run 3	0.0502 ppm	4.0610 ppm	0.0326 ppm	0.2103 ppm	6.0798 ppm	0.0049 ppm	0.1750 ppm
Concentration RSD	3.6 %	5.3 %	1.4 %	0.1 %	0.9 %	18.8 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4394 ppm	103.4774 %	106.8308 %	89.2183 %	119.4985 %	129.4904 %	124.9393 %
Concentration per Run 1	0.4451 ppm	102.2504 %	107.6559 %	89.5230 %	118.9900 %	130.9586 %	124.9878 %
Concentration per Run 2	0.4371 ppm	103.6666 %	106.9053 %	89.3856 %	119.0780 %	129.1398 %	125.1744 %
Concentration per Run 3	0.4358 ppm	104.5151 %	105.9311 %	88.7463 %	120.4274 %	128.3729 %	124.6556 %
Concentration RSD	1.1 %	1.1 %	0.8 %	0.5 %	0.7 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-4D2 WG1936224
Analysis started at: 6/19/2024 1:48:26 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0489 ppm	67.9251 ppm	0.2993 ppm	0.9503 ppm	2.2765 ppm	0.0541 ppm	146.4963 ppm
Concentration per Run 1	0.0473 ppm	68.0429 ppm	0.2989 ppm	0.9726 ppm	2.2816 ppm	0.0542 ppm	146.7129 ppm
Concentration per Run 2	0.0498 ppm	67.8615 ppm	0.3008 ppm	0.9394 ppm	2.2634 ppm	0.0543 ppm	146.6250 ppm
Concentration per Run 3	0.0495 ppm	67.8709 ppm	0.2983 ppm	0.9388 ppm	2.2845 ppm	0.0538 ppm	146.1511 ppm
Concentration RSD	2.8 %	0.2 %	0.4 %	2.0 %	0.5 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0502 ppm	0.5392 ppm	0.3166 ppm	0.4725 ppm	262.1250 ppm	30.4949 ppm	0.1059 ppm
Concentration per Run 1	0.0506 ppm	0.5488 ppm	0.3240 ppm	0.4728 ppm	261.9819 ppm	30.6404 ppm	0.1063 ppm
Concentration per Run 2	0.0502 ppm	0.5368 ppm	0.3137 ppm	0.4733 ppm	262.3082 ppm	30.1972 ppm	0.1061 ppm
Concentration per Run 3	0.0500 ppm	0.5320 ppm	0.3121 ppm	0.4714 ppm	262.0848 ppm	30.6472 ppm	0.1053 ppm
Concentration RSD	0.6 %	1.6 %	2.0 %	0.2 %	0.1 %	0.8 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.4518 ppm	2.8705 ppm	0.9561 ppm	11.4122 ppm	0.5906 ppm	1.0061 ppm	0.4944 ppm
Concentration per Run 1	86.7958 ppm	2.8772 ppm	0.9594 ppm	11.4379 ppm	0.6055 ppm	1.0086 ppm	0.5075 ppm
Concentration per Run 2	85.1253 ppm	2.8715 ppm	0.9525 ppm	11.4264 ppm	0.5851 ppm	1.0063 ppm	0.4852 ppm
Concentration per Run 3	84.4344 ppm	2.8629 ppm	0.9563 ppm	11.3723 ppm	0.5812 ppm	1.0035 ppm	0.4905 ppm
Concentration RSD	1.4 %	0.3 %	0.4 %	0.3 %	2.2 %	0.3 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1247 ppm	6.7991 ppm	0.9696 ppm	1.1268 ppm	6.5958 ppm	0.1361 ppm	0.6626 ppm
Concentration per Run 1	0.1245 ppm	6.9555 ppm	1.0141 ppm	1.1281 ppm	6.7315 ppm	0.1366 ppm	0.6862 ppm
Concentration per Run 2	0.1248 ppm	6.7155 ppm	0.9446 ppm	1.1283 ppm	6.5328 ppm	0.1380 ppm	0.6522 ppm
Concentration per Run 3	0.1249 ppm	6.7263 ppm	0.9502 ppm	1.1240 ppm	6.5232 ppm	0.1338 ppm	0.6495 ppm
Concentration RSD	0.1 %	2.0 %	4.0 %	0.2 %	1.8 %	1.6 %	3.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9202 ppm	103.0154 %	105.3939 %	88.1534 %	121.4922 %	128.4180 %	123.8217 %
Concentration per Run 1	0.9493 ppm	99.7630 %	105.8536 %	87.8240 %	116.4010 %	129.1737 %	123.4612 %
Concentration per Run 2	0.9058 ppm	104.0266 %	104.9176 %	88.0191 %	123.2337 %	127.7230 %	124.1661 %
Concentration per Run 3	0.9056 ppm	105.2566 %	105.4104 %	88.6169 %	124.8419 %	128.3571 %	123.8378 %
Concentration RSD	2.7 %	2.8 %	0.4 %	0.5 %	3.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-4D2 WG1936224
Analysis started at: 6/19/2024 1:52:23 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0492 ppm	66.6497 ppm	0.2996 ppm	0.9479 ppm	2.2513 ppm	0.0536 ppm	144.7838 ppm
Concentration per Run 1	0.0507 ppm	66.7703 ppm	0.3022 ppm	0.9588 ppm	2.2480 ppm	0.0538 ppm	145.2047 ppm
Concentration per Run 2	0.0500 ppm	66.6775 ppm	0.2981 ppm	0.9437 ppm	2.2483 ppm	0.0535 ppm	144.9719 ppm
Concentration per Run 3	0.0470 ppm	66.5013 ppm	0.2985 ppm	0.9412 ppm	2.2575 ppm	0.0534 ppm	144.1749 ppm
Concentration RSD	4.0 %	0.2 %	0.8 %	1.0 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0502 ppm	0.5378 ppm	0.3168 ppm	0.4727 ppm	259.5423 ppm	29.9639 ppm	0.1035 ppm
Concentration per Run 1	0.0513 ppm	0.5451 ppm	0.3197 ppm	0.4832 ppm	259.8144 ppm	30.0358 ppm	0.1038 ppm
Concentration per Run 2	0.0507 ppm	0.5364 ppm	0.3148 ppm	0.4765 ppm	260.4369 ppm	29.9042 ppm	0.1052 ppm
Concentration per Run 3	0.0484 ppm	0.5318 ppm	0.3158 ppm	0.4583 ppm	258.3755 ppm	29.9517 ppm	0.1016 ppm
Concentration RSD	3.0 %	1.3 %	0.8 %	2.7 %	0.4 %	0.2 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.8635 ppm	2.8217 ppm	0.9583 ppm	11.3084 ppm	0.5907 ppm	1.0011 ppm	0.4998 ppm
Concentration per Run 1	86.9068 ppm	2.8411 ppm	0.9621 ppm	11.3665 ppm	0.5952 ppm	1.0095 ppm	0.5099 ppm
Concentration per Run 2	85.4654 ppm	2.8090 ppm	0.9601 ppm	11.2988 ppm	0.5861 ppm	0.9974 ppm	0.4948 ppm
Concentration per Run 3	85.2183 ppm	2.8151 ppm	0.9528 ppm	11.2598 ppm	0.5910 ppm	0.9965 ppm	0.4948 ppm
Concentration RSD	1.1 %	0.6 %	0.5 %	0.5 %	0.8 %	0.7 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1244 ppm	6.7383 ppm	0.9711 ppm	1.1070 ppm	6.5983 ppm	0.1380 ppm	0.6644 ppm
Concentration per Run 1	0.1231 ppm	6.9172 ppm	0.9734 ppm	1.1113 ppm	6.6637 ppm	0.1374 ppm	0.6689 ppm
Concentration per Run 2	0.1231 ppm	6.7665 ppm	0.9520 ppm	1.1039 ppm	6.5596 ppm	0.1363 ppm	0.6543 ppm
Concentration per Run 3	0.1269 ppm	6.5313 ppm	0.9878 ppm	1.1057 ppm	6.5718 ppm	0.1405 ppm	0.6702 ppm
Concentration RSD	1.8 %	2.9 %	1.9 %	0.4 %	0.9 %	1.6 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9209 ppm	103.3019 %	104.9845 %	88.1692 %	121.8791 %	127.4383 %	123.8606 %
Concentration per Run 1	0.9292 ppm	103.2066 %	105.3018 %	87.5832 %	123.2398 %	127.9549 %	123.3685 %
Concentration per Run 2	0.9093 ppm	104.8423 %	104.2694 %	88.5407 %	124.4814 %	126.6237 %	124.1361 %
Concentration per Run 3	0.9243 ppm	101.8567 %	105.3821 %	88.3837 %	117.9163 %	127.7363 %	124.0773 %
Concentration RSD	1.1 %	1.4 %	0.6 %	0.6 %	2.9 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-5D2 WG1936224
Analysis started at: 6/19/2024 1:56:21 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0504 ppm	64.9370 ppm	0.3412 ppm	0.9567 ppm	2.3040 ppm	0.0542 ppm	131.1428 ppm
Concentration per Run 1	0.0507 ppm	65.3993 ppm	0.3418 ppm	0.9706 ppm	2.3131 ppm	0.0543 ppm	131.7765 ppm
Concentration per Run 2	0.0504 ppm	64.9069 ppm	0.3443 ppm	0.9530 ppm	2.3157 ppm	0.0541 ppm	130.9323 ppm
Concentration per Run 3	0.0500 ppm	64.5048 ppm	0.3376 ppm	0.9466 ppm	2.2831 ppm	0.0541 ppm	130.7195 ppm
Concentration RSD	0.6 %	0.7 %	1.0 %	1.3 %	0.8 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0518 ppm	0.5554 ppm	0.3312 ppm	0.5212 ppm	321.8537 ppm	28.0518 ppm	0.1044 ppm
Concentration per Run 1	0.0524 ppm	0.5637 ppm	0.3365 ppm	0.5286 ppm	322.4807 ppm	28.3218 ppm	0.1048 ppm
Concentration per Run 2	0.0516 ppm	0.5540 ppm	0.3302 ppm	0.5200 ppm	322.1726 ppm	28.0805 ppm	0.1052 ppm
Concentration per Run 3	0.0513 ppm	0.5486 ppm	0.3270 ppm	0.5151 ppm	320.9078 ppm	27.7532 ppm	0.1032 ppm
Concentration RSD	1.1 %	1.4 %	1.5 %	1.3 %	0.3 %	1.0 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.9427 ppm	3.2942 ppm	0.9799 ppm	11.4108 ppm	0.6173 ppm	1.0395 ppm	0.5077 ppm
Concentration per Run 1	78.1409 ppm	3.3120 ppm	0.9835 ppm	11.4455 ppm	0.6255 ppm	1.0458 ppm	0.5176 ppm
Concentration per Run 2	76.6153 ppm	3.2904 ppm	0.9791 ppm	11.4026 ppm	0.6166 ppm	1.0407 ppm	0.5038 ppm
Concentration per Run 3	76.0719 ppm	3.2800 ppm	0.9772 ppm	11.3843 ppm	0.6098 ppm	1.0321 ppm	0.5016 ppm
Concentration RSD	1.4 %	0.5 %	0.3 %	0.3 %	1.3 %	0.7 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1340 ppm	6.8451 ppm	0.9746 ppm	1.1450 ppm	6.5928 ppm	0.1397 ppm	0.6721 ppm
Concentration per Run 1	0.1353 ppm	6.9861 ppm	0.9874 ppm	1.1453 ppm	6.6885 ppm	0.1427 ppm	0.6835 ppm
Concentration per Run 2	0.1351 ppm	6.8593 ppm	0.9806 ppm	1.1468 ppm	6.5690 ppm	0.1387 ppm	0.6691 ppm
Concentration per Run 3	0.1318 ppm	6.6901 ppm	0.9557 ppm	1.1427 ppm	6.5209 ppm	0.1377 ppm	0.6638 ppm
Concentration RSD	1.5 %	2.2 %	1.7 %	0.2 %	1.3 %	1.9 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9435 ppm	104.3803 %	104.7636 %	87.8531 %	121.0454 %	124.6257 %	121.9273 %
Concentration per Run 1	0.9624 ppm	103.2470 %	104.5304 %	88.1103 %	120.0893 %	124.5319 %	122.3568 %
Concentration per Run 2	0.9403 ppm	104.9834 %	105.4438 %	87.7923 %	121.5318 %	125.3172 %	121.9244 %
Concentration per Run 3	0.9277 ppm	104.9105 %	104.3168 %	87.6567 %	121.5150 %	124.0280 %	121.5008 %
Concentration RSD	1.9 %	0.9 %	0.6 %	0.3 %	0.7 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-5D2 WG1936224
Analysis started at: 6/19/2024 2:00:19 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0503 ppm	65.6418 ppm	0.3431 ppm	0.9513 ppm	2.3280 ppm	0.0548 ppm	132.5209 ppm
Concentration per Run 1	0.0504 ppm	65.7037 ppm	0.3444 ppm	0.9596 ppm	2.3347 ppm	0.0547 ppm	132.5732 ppm
Concentration per Run 2	0.0505 ppm	65.6938 ppm	0.3438 ppm	0.9488 ppm	2.3283 ppm	0.0549 ppm	132.6119 ppm
Concentration per Run 3	0.0501 ppm	65.5279 ppm	0.3410 ppm	0.9454 ppm	2.3211 ppm	0.0549 ppm	132.3774 ppm
Concentration RSD	0.3 %	0.2 %	0.5 %	0.8 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0512 ppm	0.5536 ppm	0.3299 ppm	0.5213 ppm	325.0562 ppm	28.3114 ppm	0.1051 ppm
Concentration per Run 1	0.0518 ppm	0.5591 ppm	0.3330 ppm	0.5255 ppm	325.8987 ppm	28.4164 ppm	0.1083 ppm
Concentration per Run 2	0.0507 ppm	0.5495 ppm	0.3291 ppm	0.5197 ppm	325.1490 ppm	28.3132 ppm	0.1053 ppm
Concentration per Run 3	0.0512 ppm	0.5523 ppm	0.3275 ppm	0.5188 ppm	324.1208 ppm	28.2044 ppm	0.1017 ppm
Concentration RSD	1.0 %	0.9 %	0.9 %	0.7 %	0.3 %	0.4 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.5981 ppm	3.3295 ppm	0.9767 ppm	11.5285 ppm	0.6141 ppm	1.0422 ppm	0.5037 ppm
Concentration per Run 1	77.5637 ppm	3.3343 ppm	0.9781 ppm	11.5370 ppm	0.6220 ppm	1.0474 ppm	0.5066 ppm
Concentration per Run 2	76.4126 ppm	3.3310 ppm	0.9736 ppm	11.5380 ppm	0.6154 ppm	1.0450 ppm	0.5043 ppm
Concentration per Run 3	75.8179 ppm	3.3232 ppm	0.9783 ppm	11.5105 ppm	0.6047 ppm	1.0343 ppm	0.5003 ppm
Concentration RSD	1.2 %	0.2 %	0.3 %	0.1 %	1.4 %	0.7 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1341 ppm	7.0128 ppm	0.9616 ppm	1.1554 ppm	6.5687 ppm	0.1400 ppm	0.6682 ppm
Concentration per Run 1	0.1357 ppm	7.1552 ppm	0.9784 ppm	1.1508 ppm	6.6441 ppm	0.1396 ppm	0.6773 ppm
Concentration per Run 2	0.1339 ppm	6.9751 ppm	0.9587 ppm	1.1557 ppm	6.5488 ppm	0.1423 ppm	0.6676 ppm
Concentration per Run 3	0.1327 ppm	6.9080 ppm	0.9478 ppm	1.1596 ppm	6.5131 ppm	0.1382 ppm	0.6596 ppm
Concentration RSD	1.1 %	1.8 %	1.6 %	0.4 %	1.0 %	1.5 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9362 ppm	104.3125 %	105.3070 %	87.5748 %	120.8990 %	125.5768 %	121.7906 %
Concentration per Run 1	0.9492 ppm	102.9277 %	105.6171 %	87.7135 %	119.4473 %	126.2009 %	122.0114 %
Concentration per Run 2	0.9352 ppm	104.6573 %	105.7515 %	86.9910 %	121.1851 %	125.7739 %	121.3131 %
Concentration per Run 3	0.9241 ppm	105.3527 %	104.5524 %	88.0199 %	122.0647 %	124.7557 %	122.0472 %
Concentration RSD	1.3 %	1.2 %	0.6 %	0.6 %	1.1 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-7D2 WG1936224
Analysis started at: 6/19/2024 2:04:18 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0412 ppm	64.1521 ppm	0.3592 ppm	0.9021 ppm	2.2305 ppm	0.0493 ppm	127.8889 ppm
Concentration per Run 1	0.0414 ppm	64.0710 ppm	0.3578 ppm	0.9094 ppm	2.2204 ppm	0.0489 ppm	127.4148 ppm
Concentration per Run 2	0.0411 ppm	64.0982 ppm	0.3586 ppm	0.8989 ppm	2.2370 ppm	0.0494 ppm	128.1310 ppm
Concentration per Run 3	0.0410 ppm	64.2872 ppm	0.3613 ppm	0.8980 ppm	2.2343 ppm	0.0495 ppm	128.1210 ppm
Concentration RSD	0.6 %	0.2 %	0.5 %	0.7 %	0.4 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0453 ppm	0.4792 ppm	0.2983 ppm	0.4449 ppm	305.3779 ppm	30.3522 ppm	0.0977 ppm
Concentration per Run 1	0.0460 ppm	0.4818 ppm	0.2993 ppm	0.4465 ppm	304.0140 ppm	30.2764 ppm	0.0981 ppm
Concentration per Run 2	0.0448 ppm	0.4777 ppm	0.2978 ppm	0.4451 ppm	305.9932 ppm	30.2894 ppm	0.0974 ppm
Concentration per Run 3	0.0453 ppm	0.4781 ppm	0.2977 ppm	0.4430 ppm	306.1266 ppm	30.4908 ppm	0.0974 ppm
Concentration RSD	1.3 %	0.5 %	0.3 %	0.4 %	0.4 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.7178 ppm	2.8987 ppm	0.8770 ppm	10.9248 ppm	0.5450 ppm	1.0598 ppm	0.4784 ppm
Concentration per Run 1	80.0374 ppm	2.8938 ppm	0.8688 ppm	10.8992 ppm	0.5447 ppm	1.0529 ppm	0.4810 ppm
Concentration per Run 2	79.7047 ppm	2.8953 ppm	0.8758 ppm	10.9459 ppm	0.5471 ppm	1.0706 ppm	0.4734 ppm
Concentration per Run 3	79.4114 ppm	2.9071 ppm	0.8864 ppm	10.9294 ppm	0.5433 ppm	1.0560 ppm	0.4807 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	0.2 %	0.3 %	0.9 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1347 ppm	4.6200 ppm	0.9460 ppm	1.0896 ppm	6.6182 ppm	0.1226 ppm	0.6198 ppm
Concentration per Run 1	0.1344 ppm	4.7692 ppm	0.9516 ppm	1.0841 ppm	6.6386 ppm	0.1168 ppm	0.6222 ppm
Concentration per Run 2	0.1349 ppm	4.6035 ppm	0.9451 ppm	1.0894 ppm	6.6116 ppm	0.1295 ppm	0.6199 ppm
Concentration per Run 3	0.1348 ppm	4.4874 ppm	0.9413 ppm	1.0952 ppm	6.6043 ppm	0.1216 ppm	0.6175 ppm
Concentration RSD	0.2 %	3.1 %	0.6 %	0.5 %	0.3 %	5.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8452 ppm	103.4779 %	105.8933 %	88.4448 %	117.8705 %	126.9875 %	123.1748 %
Concentration per Run 1	0.8491 ppm	102.9437 %	106.5459 %	88.1424 %	117.4577 %	127.6610 %	123.0717 %
Concentration per Run 2	0.8449 ppm	103.6831 %	105.9378 %	89.8035 %	117.9797 %	127.2093 %	123.7622 %
Concentration per Run 3	0.8417 ppm	103.8068 %	105.1961 %	87.3883 %	118.1739 %	126.0923 %	122.6905 %
Concentration RSD	0.4 %	0.5 %	0.6 %	1.4 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-6D10 WG1936224
Analysis started at: 6/19/2024 2:08:24 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	13.6314 ppm	0.0457 ppm	0.0042 ppm	0.1017 ppm	0.0009 ppm	26.2915 ppm
Concentration per Run 1	-0.0007 ppm	13.6603 ppm	0.0449 ppm	0.0048 ppm	0.1020 ppm	0.0009 ppm	26.3883 ppm
Concentration per Run 2	-0.0006 ppm	13.6165 ppm	0.0444 ppm	0.0040 ppm	0.1016 ppm	0.0009 ppm	26.3150 ppm
Concentration per Run 3	-0.0007 ppm	13.6174 ppm	0.0479 ppm	0.0036 ppm	0.1016 ppm	0.0008 ppm	26.1711 ppm
Concentration RSD	9.3 %	0.2 %	4.1 %	14.7 %	0.2 %	5.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0141 ppm	0.0289 ppm	0.0496 ppm	70.0195 ppm	4.3930 ppm	0.0204 ppm
Concentration per Run 1	0.0003 ppm	0.0143 ppm	0.0292 ppm	0.0512 ppm	70.2927 ppm	4.4224 ppm	0.0224 ppm
Concentration per Run 2	0.0003 ppm	0.0137 ppm	0.0284 ppm	0.0489 ppm	69.8424 ppm	4.3936 ppm	0.0203 ppm
Concentration per Run 3	0.0002 ppm	0.0143 ppm	0.0291 ppm	0.0486 ppm	69.9234 ppm	4.3631 ppm	0.0184 ppm
Concentration RSD	32.1 %	2.5 %	1.4 %	2.9 %	0.3 %	0.7 %	9.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.1461 ppm	0.5400 ppm	0.0032 ppm	0.2164 ppm	0.0256 ppm	0.1088 ppm	0.0029 ppm
Concentration per Run 1	16.4459 ppm	0.5411 ppm	0.0038 ppm	0.2183 ppm	0.0255 ppm	0.1085 ppm	0.0004 ppm
Concentration per Run 2	16.1367 ppm	0.5403 ppm	0.0030 ppm	0.2116 ppm	0.0263 ppm	0.1098 ppm	0.0049 ppm
Concentration per Run 3	15.8556 ppm	0.5385 ppm	0.0030 ppm	0.2193 ppm	0.0249 ppm	0.1081 ppm	0.0033 ppm
Concentration RSD	1.8 %	0.2 %	15.2 %	1.9 %	2.6 %	0.8 %	78.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0126 ppm	1.0041 ppm	0.0071 ppm	0.0430 ppm	1.2662 ppm	0.0019 ppm	0.0348 ppm
Concentration per Run 1	0.0133 ppm	1.0032 ppm	0.0070 ppm	0.0433 ppm	1.2786 ppm	0.0013 ppm	0.0353 ppm
Concentration per Run 2	0.0127 ppm	1.0347 ppm	0.0074 ppm	0.0429 ppm	1.2724 ppm	0.0024 ppm	0.0348 ppm
Concentration per Run 3	0.0117 ppm	0.9744 ppm	0.0070 ppm	0.0427 ppm	1.2478 ppm	0.0020 ppm	0.0342 ppm
Concentration RSD	6.5 %	3.0 %	3.7 %	0.7 %	1.3 %	28.0 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0943 ppm	103.2482 %	103.7694 %	100.5631 %	104.1103 %	105.6976 %	106.7018 %
Concentration per Run 1	0.0958 ppm	101.0891 %	102.9616 %	100.7711 %	102.4144 %	105.3431 %	106.7678 %
Concentration per Run 2	0.0939 ppm	103.7270 %	104.0347 %	100.3365 %	104.5618 %	105.9575 %	106.4929 %
Concentration per Run 3	0.0932 ppm	104.9285 %	104.3118 %	100.5818 %	105.3549 %	105.7922 %	106.8447 %
Concentration RSD	1.4 %	1.9 %	0.7 %	0.2 %	1.5 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 2:12:23 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4961 ppm	0.4786 ppm	0.4815 ppm	0.4866 ppm	0.4870 ppm	0.5049 ppm	0.5008 ppm
Concentration per Run 1	0.5047 ppm	0.4829 ppm	0.4825 ppm	0.4923 ppm	0.4866 ppm	0.5052 ppm	0.5003 ppm
Concentration per Run 2	0.4951 ppm	0.4769 ppm	0.4821 ppm	0.4885 ppm	0.4882 ppm	0.5051 ppm	0.5020 ppm
Concentration per Run 3	0.4884 ppm	0.4761 ppm	0.4800 ppm	0.4790 ppm	0.4862 ppm	0.5043 ppm	0.5002 ppm
Recovery Percentage 1	99.213 %	95.722 %	96.304 %	97.317 %	97.395 %	100.978 %	100.165 %
Concentration RSD	1.6 %	0.8 %	0.3 %	1.4 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4980 ppm	0.4996 ppm	0.4900 ppm	0.4834 ppm	0.5272 ppm	5.1686 ppm	0.4729 ppm
Concentration per Run 1	0.5042 ppm	0.5066 ppm	0.4978 ppm	0.4910 ppm	0.5269 ppm	5.1759 ppm	0.4824 ppm
Concentration per Run 2	0.4976 ppm	0.4996 ppm	0.4891 ppm	0.4849 ppm	0.5288 ppm	5.1988 ppm	0.4728 ppm
Concentration per Run 3	0.4922 ppm	0.4926 ppm	0.4831 ppm	0.4744 ppm	0.5260 ppm	5.1311 ppm	0.4636 ppm
Recovery Percentage 1	99.602 %	99.918 %	97.998 %	96.684 %	105.443 %	103.372 %	94.586 %
Concentration RSD	1.2 %	1.4 %	1.5 %	1.7 %	0.3 %	0.7 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4873 ppm	0.5027 ppm	0.4893 ppm	10.5307 ppm	0.5037 ppm	0.4897 ppm	0.4854 ppm
Concentration per Run 1	0.4957 ppm	0.5040 ppm	0.4913 ppm	10.5500 ppm	0.5102 ppm	0.4913 ppm	0.4906 ppm
Concentration per Run 2	0.4877 ppm	0.5034 ppm	0.4906 ppm	10.5188 ppm	0.5050 ppm	0.4881 ppm	0.4889 ppm
Concentration per Run 3	0.4785 ppm	0.5009 ppm	0.4860 ppm	10.5233 ppm	0.4958 ppm	0.4896 ppm	0.4766 ppm
Recovery Percentage 1	97.463 %	100.546 %	97.856 %	105.307 %	100.734 %	97.931 %	97.072 %
Concentration RSD	1.8 %	0.3 %	0.6 %	0.2 %	1.5 %	0.3 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4822 ppm	5.1525 ppm	0.5131 ppm	0.4938 ppm	0.5042 ppm	0.4895 ppm	0.4911 ppm
Concentration per Run 1	0.4887 ppm	5.2209 ppm	0.5216 ppm	0.4937 ppm	0.5121 ppm	0.4873 ppm	0.4993 ppm
Concentration per Run 2	0.4790 ppm	5.1523 ppm	0.5103 ppm	0.4944 ppm	0.5033 ppm	0.4932 ppm	0.4899 ppm
Concentration per Run 3	0.4789 ppm	5.0842 ppm	0.5075 ppm	0.4934 ppm	0.4971 ppm	0.4878 ppm	0.4842 ppm
Recovery Percentage 1	96.442 %	98.142 %	102.627 %	98.766 %	100.831 %	97.890 %	98.226 %
Concentration RSD	1.2 %	1.3 %	1.5 %	0.1 %	1.5 %	0.7 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5032 ppm	103.1903 %	102.7134 %	102.0260 %	98.2889 %	99.3474 %	100.2523 %
Concentration per Run 1	0.5105 ppm	102.1539 %	102.2046 %	101.7133 %	97.4743 %	98.9854 %	100.1882 %
Concentration per Run 2	0.5023 ppm	103.4889 %	102.8930 %	102.2194 %	98.8530 %	99.7460 %	100.4422 %
Concentration per Run 3	0.4967 ppm	103.9280 %	103.0425 %	102.1454 %	98.5394 %	99.3106 %	100.1266 %
Recovery Percentage 1	100.631 %						
Concentration RSD	1.4 %	0.9 %	0.4 %	0.3 %	0.7 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 2:16:21 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0133 ppm
Concentration per Run 1	-0.0004 ppm	-0.0019 ppm	-0.0003 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0117 ppm
Concentration per Run 2	-0.0003 ppm	-0.0019 ppm	0.0008 ppm	0.0012 ppm	-0.0004 ppm	0.0001 ppm	0.0117 ppm
Concentration per Run 3	-0.0006 ppm	0.0063 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0166 ppm
Recovery Percentage 1	-6.005 %	0.843 %	3.145 %	1.476 %	-3.419 %	1.307 %	13.337 %
Concentration RSD	30.9 %	563.8 %	615.9 %	156.8 %	11.9 %	188.3 %	21.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0008 ppm	0.0079 ppm	-0.0655 ppm	-0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0087 ppm	-0.0360 ppm	-0.0032 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	-0.0001 ppm	0.0008 ppm	0.0066 ppm	-0.0833 ppm	-0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0084 ppm	-0.0771 ppm	-0.0036 ppm
Recovery Percentage 1	1.066 %	-0.783 %	-1.490 %	7.533 %	15.840 %	-2.619 %	-31.341 %
Concentration RSD	143.6 %	343.5 %	79.5 %	41.7 %	14.6 %	39.3 %	15.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0191 ppm	-0.0002 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0189 ppm	-0.0008 ppm	-0.0010 ppm	0.0042 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0192 ppm	-0.0008 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	-0.0006 ppm	0.0003 ppm	0.0009 ppm	0.0191 ppm	0.0009 ppm	-0.0020 ppm	-0.0041 ppm
Recovery Percentage 1	0.087 %	2.273 %	0.732 %	0.953 %	-0.841 %	-8.621 %	0.483 %
Concentration RSD	768.3 %	45.1 %	143.1 %	0.8 %	472.0 %	138.2 %	1,713.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0088 ppm	-0.0006 ppm	-0.0002 ppm	0.0010 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0013 ppm	0.0112 ppm	0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 2	-0.0012 ppm	0.0102 ppm	-0.0004 ppm	-0.0002 ppm	0.0009 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 3	-0.0008 ppm	0.0052 ppm	-0.0014 ppm	-0.0002 ppm	0.0008 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-10.885 %	1.770 %	-1.131 %	-1.957 %	9.770 %	5.714 %	-1.364 %
Concentration RSD	25.4 %	36.5 %	141.8 %	7.0 %	30.2 %	66.4 %	243.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	97.7262 %	99.4166 %	99.1801 %	99.1532 %	100.1167 %	101.4256 %
Concentration per Run 1	0.0013 ppm	96.2975 %	99.1443 %	98.8273 %	98.7906 %	100.4398 %	101.4371 %
Concentration per Run 2	0.0011 ppm	97.6620 %	99.6268 %	98.7170 %	98.9180 %	100.2604 %	100.7848 %
Concentration per Run 3	0.0011 ppm	99.2192 %	99.4787 %	99.9960 %	99.7509 %	99.6498 %	102.0550 %
Recovery Percentage 1	22.750 %						
Concentration RSD	10.1 %	1.5 %	0.2 %	0.7 %	0.5 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432838-01 WG1935332
Analysis started at: 6/19/2024 2:23:07 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	68.4061 ppm	0.0008 ppm	0.0175 ppm	0.0286 ppm	0.0000 ppm	32.5868 ppm
Concentration per Run 1	-0.0005 ppm	67.2612 ppm	0.0011 ppm	0.0176 ppm	0.0283 ppm	0.0000 ppm	32.6493 ppm
Concentration per Run 2	-0.0004 ppm	67.8221 ppm	0.0005 ppm	0.0177 ppm	0.0280 ppm	0.0001 ppm	32.8336 ppm
Concentration per Run 3	-0.0006 ppm	70.1350 ppm	0.0008 ppm	0.0172 ppm	0.0295 ppm	0.0000 ppm	32.2773 ppm
Concentration RSD	14.9 %	2.2 %	34.9 %	1.5 %	2.7 %	125.8 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0029 ppm	0.2355 ppm	1.6477 ppm	0.0025 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0034 ppm	0.2365 ppm	1.6257 ppm	-0.0004 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0028 ppm	0.2331 ppm	1.5843 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0007 ppm	0.0027 ppm	0.2370 ppm	1.7329 ppm	0.0050 ppm
Concentration RSD	32.0 %	49.3 %	30.9 %	12.9 %	0.9 %	4.7 %	111.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.0123 ppm	0.0191 ppm	0.0005 ppm	12.5162 ppm	0.0008 ppm	0.0034 ppm	-0.0001 ppm
Concentration per Run 1	7.9805 ppm	0.0191 ppm	0.0004 ppm	12.7068 ppm	0.0004 ppm	0.0039 ppm	-0.0006 ppm
Concentration per Run 2	8.0059 ppm	0.0192 ppm	0.0006 ppm	12.7511 ppm	0.0009 ppm	0.0034 ppm	-0.0016 ppm
Concentration per Run 3	8.0505 ppm	0.0191 ppm	0.0006 ppm	12.0908 ppm	0.0012 ppm	0.0028 ppm	0.0019 ppm
Concentration RSD	0.4 %	0.4 %	20.7 %	2.9 %	46.1 %	16.8 %	2,102.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.3130 ppm	-0.0016 ppm	0.1597 ppm	0.0043 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 1	0.0016 ppm	0.3101 ppm	-0.0022 ppm	0.1618 ppm	0.0042 ppm	0.0017 ppm	0.0004 ppm
Concentration per Run 2	-0.0034 ppm	0.3118 ppm	-0.0012 ppm	0.1606 ppm	0.0043 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	-0.0007 ppm	0.3172 ppm	-0.0015 ppm	0.1566 ppm	0.0042 ppm	0.0023 ppm	0.0007 ppm
Concentration RSD	294.9 %	1.2 %	29.2 %	1.7 %	0.4 %	85.0 %	28.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0074 ppm	115.7698 %	103.4403 %	110.0628 %	98.8577 %	97.6547 %	103.5080 %
Concentration per Run 1	0.0074 ppm	115.8530 %	101.2378 %	110.8479 %	98.0456 %	96.4343 %	103.8495 %
Concentration per Run 2	0.0077 ppm	115.6039 %	100.6582 %	109.7699 %	98.3256 %	95.7087 %	103.2292 %
Concentration per Run 3	0.0072 ppm	115.8524 %	108.4249 %	109.5705 %	100.2020 %	100.8210 %	103.4454 %
Concentration RSD	3.1 %	0.1 %	4.2 %	0.6 %	1.2 %	2.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432844-01 WG1935332
Analysis started at: 6/19/2024 2:27:24 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	1.5567 ppm	0.0017 ppm	0.0300 ppm	0.0152 ppm	0.0001 ppm	46.7301 ppm
Concentration per Run 1	-0.0006 ppm	1.5604 ppm	0.0031 ppm	0.0310 ppm	0.0152 ppm	0.0000 ppm	46.8188 ppm
Concentration per Run 2	-0.0007 ppm	1.5627 ppm	0.0008 ppm	0.0309 ppm	0.0151 ppm	0.0001 ppm	46.7534 ppm
Concentration per Run 3	-0.0006 ppm	1.5469 ppm	0.0011 ppm	0.0281 ppm	0.0152 ppm	0.0001 ppm	46.6180 ppm
Concentration RSD	14.6 %	0.5 %	71.8 %	5.6 %	0.3 %	31.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0008 ppm	0.0002 ppm	0.0031 ppm	0.1705 ppm	6.0424 ppm	-0.0005 ppm
Concentration per Run 1	0.0003 ppm	0.0009 ppm	0.0003 ppm	0.0030 ppm	0.1702 ppm	6.1227 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0010 ppm	0.0002 ppm	0.0033 ppm	0.1709 ppm	6.0486 ppm	-0.0009 ppm
Concentration per Run 3	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0029 ppm	0.1704 ppm	5.9559 ppm	-0.0024 ppm
Concentration RSD	1.7 %	40.1 %	44.2 %	7.0 %	0.2 %	1.4 %	420.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.9846 ppm	0.0114 ppm	0.0508 ppm	287.6312 ppm	0.0012 ppm	-0.0009 ppm	-0.0038 ppm
Concentration per Run 1	13.3593 ppm	0.0114 ppm	0.0518 ppm	288.1756 ppm	0.0022 ppm	-0.0007 ppm	-0.0054 ppm
Concentration per Run 2	12.9110 ppm	0.0115 ppm	0.0503 ppm	287.3365 ppm	0.0007 ppm	-0.0006 ppm	-0.0038 ppm
Concentration per Run 3	12.6835 ppm	0.0113 ppm	0.0502 ppm	287.3816 ppm	0.0006 ppm	-0.0015 ppm	-0.0022 ppm
Concentration RSD	2.6 %	1.0 %	1.8 %	0.2 %	76.0 %	54.8 %	41.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	0.6936 ppm	-0.0020 ppm	0.2335 ppm	0.0027 ppm	0.0016 ppm	0.0006 ppm
Concentration per Run 1	0.0006 ppm	0.7100 ppm	-0.0022 ppm	0.2339 ppm	0.0027 ppm	-0.0006 ppm	0.0010 ppm
Concentration per Run 2	0.0029 ppm	0.6945 ppm	-0.0014 ppm	0.2338 ppm	0.0027 ppm	0.0035 ppm	0.0004 ppm
Concentration per Run 3	0.0017 ppm	0.6763 ppm	-0.0024 ppm	0.2329 ppm	0.0029 ppm	0.0019 ppm	0.0005 ppm
Concentration RSD	66.4 %	2.4 %	27.3 %	0.2 %	3.6 %	126.9 %	49.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	94.3439 %	100.3767 %	93.9863 %	95.9618 %	100.1681 %	98.4134 %
Concentration per Run 1	0.0053 ppm	91.7669 %	100.3969 %	93.1801 %	94.5546 %	100.7883 %	98.2161 %
Concentration per Run 2	0.0051 ppm	94.7391 %	101.1406 %	93.7189 %	96.0686 %	100.5984 %	98.1434 %
Concentration per Run 3	0.0052 ppm	96.5256 %	99.5925 %	95.0599 %	97.2622 %	99.1178 %	98.8807 %
Concentration RSD	2.1 %	2.5 %	0.8 %	1.0 %	1.4 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

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LabBook: WG1936236_06192024T8.imexp

Sample: L2432903-03 WG1935332
Analysis started at: 6/19/2024 2:31:22 PM
Rack 2
Vial 9
Comment

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0685 ppm	-0.0005 ppm	0.0524 ppm	0.0192 ppm	0.0000 ppm	25.0617 ppm
Concentration per Run 1	-0.0005 ppm	0.0805 ppm	-0.0006 ppm	0.0546 ppm	0.0192 ppm	0.0000 ppm	25.1583 ppm
Concentration per Run 2	-0.0006 ppm	0.0542 ppm	-0.0022 ppm	0.0515 ppm	0.0193 ppm	0.0000 ppm	25.0796 ppm
Concentration per Run 3	-0.0002 ppm	0.0708 ppm	0.0014 ppm	0.0512 ppm	0.0191 ppm	0.0000 ppm	24.9472 ppm
Concentration RSD	49.5 %	19.5 %	366.4 %	3.6 %	0.6 %	36.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0081 ppm	0.0073 ppm	0.2523 ppm	14.4233 ppm	0.0333 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0085 ppm	0.0071 ppm	0.2519 ppm	14.5420 ppm	0.0356 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0082 ppm	0.0079 ppm	0.2547 ppm	14.4188 ppm	0.0322 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0077 ppm	0.0068 ppm	0.2502 ppm	14.3092 ppm	0.0322 ppm
Concentration RSD	118.1 %	34.1 %	5.0 %	7.8 %	0.9 %	0.8 %	5.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.4924 ppm	0.0053 ppm	0.0020 ppm	2,409.5964 ppm	0.0399 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	7.6741 ppm	0.0054 ppm	0.0017 ppm	2,434.9917 ppm	0.0394 ppm	0.0005 ppm	-0.0034 ppm
Concentration per Run 2	7.4557 ppm	0.0055 ppm	0.0021 ppm	2,435.5475 ppm	0.0407 ppm	-0.0006 ppm	0.0041 ppm
Concentration per Run 3	7.3475 ppm	0.0050 ppm	0.0022 ppm	2,358.2500 ppm	0.0397 ppm	-0.0012 ppm	-0.0015 ppm
Concentration RSD	2.2 %	4.8 %	10.7 %	1.8 %	1.6 %	216.0 %	1,549.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.3355 ppm	-0.0025 ppm	0.1458 ppm	0.0013 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 1	0.0023 ppm	0.3392 ppm	-0.0028 ppm	0.1462 ppm	0.0012 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 2	-0.0013 ppm	0.3346 ppm	-0.0025 ppm	0.1459 ppm	0.0016 ppm	0.0034 ppm	0.0001 ppm
Concentration per Run 3	-0.0009 ppm	0.3327 ppm	-0.0023 ppm	0.1453 ppm	0.0011 ppm	0.0027 ppm	-0.0005 ppm
Concentration RSD	8,215.9 %	1.0 %	9.5 %	0.3 %	22.3 %	52.0 %	785.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0061 ppm	76.7292 %	91.2591 %	73.4086 %	76.5464 %	89.7311 %	79.5310 %
Concentration per Run 1	0.0066 ppm	75.1127 %	90.4362 %	73.0902 %	76.1197 %	89.3123 %	79.4293 %
Concentration per Run 2	0.0059 ppm	77.0044 %	91.1595 %	72.8466 %	76.4207 %	89.5926 %	79.3828 %
Concentration per Run 3	0.0057 ppm	78.0705 %	92.1816 %	74.2890 %	77.0986 %	90.2885 %	79.7809 %
Concentration RSD	7.8 %	2.0 %	1.0 %	1.1 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432883-01 WG1935332
Analysis started at: 6/19/2024 2:35:20 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0007 ppm	0.0007 ppm	0.0178 ppm	0.1044 ppm	0.0001 ppm	21.0017 ppm
Concentration per Run 1	-0.0005 ppm	-0.0031 ppm	0.0013 ppm	0.0193 ppm	0.1042 ppm	0.0001 ppm	20.9728 ppm
Concentration per Run 2	-0.0007 ppm	0.0091 ppm	-0.0001 ppm	0.0176 ppm	0.1039 ppm	0.0001 ppm	20.9870 ppm
Concentration per Run 3	-0.0013 ppm	-0.0039 ppm	0.0011 ppm	0.0165 ppm	0.1051 ppm	0.0000 ppm	21.0455 ppm
Concentration RSD	47.7 %	1,035.1 %	102.0 %	8.0 %	0.6 %	85.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0004 ppm	0.0047 ppm	15.0384 ppm	4.3007 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	-0.0006 ppm	0.0045 ppm	15.0047 ppm	4.2813 ppm	-0.0021 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0005 ppm	0.0047 ppm	15.0265 ppm	4.3365 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0048 ppm	15.0840 ppm	4.2843 ppm	-0.0010 ppm
Concentration RSD	228.5 %	82.0 %	59.1 %	4.0 %	0.3 %	0.7 %	63.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.9285 ppm	0.8940 ppm	-0.0009 ppm	38.9854 ppm	0.0064 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	5.0234 ppm	0.8926 ppm	-0.0003 ppm	39.0466 ppm	0.0061 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	4.9077 ppm	0.8928 ppm	-0.0011 ppm	38.9103 ppm	0.0068 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 3	4.8542 ppm	0.8965 ppm	-0.0011 ppm	38.9994 ppm	0.0062 ppm	-0.0016 ppm	-0.0004 ppm
Concentration RSD	1.8 %	0.2 %	56.3 %	0.2 %	6.6 %	144.8 %	240.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	13.9160 ppm	-0.0015 ppm	0.4773 ppm	0.0007 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 1	0.0026 ppm	14.1377 ppm	-0.0013 ppm	0.4758 ppm	0.0011 ppm	0.0018 ppm	-0.0002 ppm
Concentration per Run 2	-0.0009 ppm	13.8600 ppm	-0.0018 ppm	0.4778 ppm	0.0006 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	13.7504 ppm	-0.0014 ppm	0.4783 ppm	0.0005 ppm	0.0020 ppm	-0.0001 ppm
Concentration RSD	344.8 %	1.4 %	16.3 %	0.3 %	41.6 %	19.3 %	29.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0245 ppm	101.1065 %	103.5464 %	101.2036 %	99.8463 %	101.2234 %	101.7061 %
Concentration per Run 1	0.0252 ppm	99.3603 %	103.6057 %	100.8428 %	99.2734 %	101.6691 %	101.7278 %
Concentration per Run 2	0.0240 ppm	101.0560 %	104.3492 %	101.2563 %	99.7128 %	101.8138 %	101.7350 %
Concentration per Run 3	0.0244 ppm	102.9034 %	102.6843 %	101.5116 %	100.5528 %	100.1873 %	101.6556 %
Concentration RSD	2.5 %	1.8 %	0.8 %	0.3 %	0.7 %	0.9 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432931-01 WG1935332
Analysis started at: 6/19/2024 2:39:19 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	4.1555 ppm	-0.0004 ppm	0.0230 ppm	0.0219 ppm	0.0001 ppm	33.1172 ppm
Concentration per Run 1	-0.0004 ppm	4.1769 ppm	-0.0017 ppm	0.0234 ppm	0.0221 ppm	0.0001 ppm	33.3641 ppm
Concentration per Run 2	-0.0004 ppm	4.1406 ppm	0.0008 ppm	0.0233 ppm	0.0222 ppm	0.0000 ppm	32.9904 ppm
Concentration per Run 3	-0.0011 ppm	4.1491 ppm	-0.0005 ppm	0.0223 ppm	0.0215 ppm	0.0001 ppm	32.9972 ppm
Concentration RSD	59.5 %	0.5 %	292.3 %	2.7 %	1.7 %	60.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0073 ppm	0.0073 ppm	0.1427 ppm	1.4762 ppm	-0.0019 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0072 ppm	0.0077 ppm	0.1431 ppm	1.5228 ppm	-0.0020 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0073 ppm	0.0070 ppm	0.1440 ppm	1.4756 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0073 ppm	0.0071 ppm	0.1409 ppm	1.4301 ppm	-0.0029 ppm
Concentration RSD	74.5 %	2,501.5 %	0.9 %	4.8 %	1.1 %	3.1 %	55.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.0560 ppm	0.1081 ppm	0.0002 ppm	11.5980 ppm	0.0079 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 1	9.2882 ppm	0.1090 ppm	0.0002 ppm	11.6875 ppm	0.0085 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 2	9.0206 ppm	0.1076 ppm	0.0002 ppm	11.5922 ppm	0.0077 ppm	0.0013 ppm	-0.0027 ppm
Concentration per Run 3	8.8591 ppm	0.1076 ppm	0.0002 ppm	11.5141 ppm	0.0074 ppm	0.0014 ppm	0.0011 ppm
Concentration RSD	2.4 %	0.8 %	18.4 %	0.7 %	7.2 %	70.2 %	454.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	0.3343 ppm	-0.0013 ppm	0.1614 ppm	0.0012 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 1	-0.0017 ppm	0.3438 ppm	-0.0007 ppm	0.1624 ppm	0.0010 ppm	0.0016 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	0.3307 ppm	-0.0018 ppm	0.1610 ppm	0.0015 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 3	-0.0024 ppm	0.3283 ppm	-0.0014 ppm	0.1608 ppm	0.0011 ppm	0.0014 ppm	0.0008 ppm
Concentration RSD	51.9 %	2.5 %	45.0 %	0.5 %	18.7 %	15.3 %	26.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	98.4889 %	102.6090 %	99.5295 %	100.0049 %	102.6067 %	102.0552 %
Concentration per Run 1	0.0043 ppm	95.7300 %	101.5056 %	98.5859 %	98.7880 %	101.9293 %	101.4235 %
Concentration per Run 2	0.0040 ppm	98.9898 %	102.7006 %	99.8972 %	99.9198 %	102.7442 %	102.4607 %
Concentration per Run 3	0.0040 ppm	100.7470 %	103.6208 %	100.1055 %	101.3069 %	103.1466 %	102.2814 %
Concentration RSD	3.9 %	2.6 %	1.0 %	0.8 %	1.3 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432978-03 WG1935332
Analysis started at: 6/19/2024 2:43:19 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.2135 ppm	0.0023 ppm	46.4410 ppm	0.0493 ppm	0.0001 ppm	223.8726 ppm
Concentration per Run 1	-0.0007 ppm	0.2199 ppm	0.0036 ppm	47.5936 ppm	0.0493 ppm	0.0000 ppm	224.9146 ppm
Concentration per Run 2	-0.0009 ppm	0.2048 ppm	0.0011 ppm	46.2720 ppm	0.0494 ppm	0.0001 ppm	223.7207 ppm
Concentration per Run 3	-0.0005 ppm	0.2156 ppm	0.0022 ppm	45.4573 ppm	0.0491 ppm	0.0000 ppm	222.9825 ppm
Concentration RSD	27.9 %	3.6 %	54.7 %	2.3 %	0.3 %	46.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0061 ppm	0.0173 ppm	1.0005 ppm	8.3865 ppm	0.0628 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0063 ppm	0.0177 ppm	1.0031 ppm	8.4408 ppm	0.0613 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0062 ppm	0.0173 ppm	1.0026 ppm	8.3427 ppm	0.0637 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0056 ppm	0.0170 ppm	0.9957 ppm	8.3759 ppm	0.0634 ppm
Concentration RSD	47.9 %	985.0 %	6.2 %	2.3 %	0.4 %	0.6 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.6785 ppm	0.0862 ppm	0.0541 ppm	402.2780 ppm	0.0084 ppm	-0.0008 ppm	-0.0027 ppm
Concentration per Run 1	42.8020 ppm	0.0864 ppm	0.0548 ppm	404.9828 ppm	0.0078 ppm	-0.0010 ppm	-0.0028 ppm
Concentration per Run 2	41.4600 ppm	0.0861 ppm	0.0540 ppm	402.2119 ppm	0.0084 ppm	-0.0006 ppm	-0.0036 ppm
Concentration per Run 3	40.7736 ppm	0.0859 ppm	0.0535 ppm	399.6394 ppm	0.0090 ppm	-0.0010 ppm	-0.0016 ppm
Concentration RSD	2.5 %	0.3 %	1.2 %	0.7 %	6.8 %	29.0 %	37.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0042 ppm	4.3396 ppm	-0.0022 ppm	1.8977 ppm	0.0088 ppm	0.0022 ppm	0.0011 ppm
Concentration per Run 1	-0.0039 ppm	4.4402 ppm	-0.0038 ppm	1.9043 ppm	0.0088 ppm	0.0025 ppm	0.0011 ppm
Concentration per Run 2	-0.0031 ppm	4.3356 ppm	-0.0021 ppm	1.8950 ppm	0.0090 ppm	0.0024 ppm	0.0013 ppm
Concentration per Run 3	-0.0057 ppm	4.2430 ppm	-0.0008 ppm	1.8937 ppm	0.0085 ppm	0.0017 ppm	0.0009 ppm
Concentration RSD	31.6 %	2.3 %	66.2 %	0.3 %	3.1 %	20.9 %	17.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0313 ppm	95.4981 %	101.0274 %	91.7936 %	95.0132 %	99.9369 %	96.2922 %
Concentration per Run 1	0.0320 ppm	93.1747 %	100.3378 %	91.5973 %	93.8016 %	99.9239 %	96.2648 %
Concentration per Run 2	0.0313 ppm	95.9215 %	101.3688 %	92.1109 %	95.4451 %	100.2532 %	96.5705 %
Concentration per Run 3	0.0306 ppm	97.3982 %	101.3757 %	91.6728 %	95.7928 %	99.6335 %	96.0414 %
Concentration RSD	2.3 %	2.2 %	0.6 %	0.3 %	1.1 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-01 WG1935332
Analysis started at: 6/19/2024 2:47:18 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	1.1102 ppm	0.0004 ppm	0.0365 ppm	0.0683 ppm	0.0001 ppm	9.0896 ppm
Concentration per Run 1	-0.0006 ppm	1.1191 ppm	-0.0010 ppm	0.0381 ppm	0.0686 ppm	0.0001 ppm	9.0904 ppm
Concentration per Run 2	-0.0004 ppm	1.1167 ppm	0.0016 ppm	0.0364 ppm	0.0681 ppm	0.0002 ppm	9.0745 ppm
Concentration per Run 3	-0.0005 ppm	1.0947 ppm	0.0007 ppm	0.0349 ppm	0.0684 ppm	0.0001 ppm	9.1039 ppm
Concentration RSD	18.3 %	1.2 %	303.0 %	4.3 %	0.3 %	40.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0009 ppm	0.0025 ppm	0.0040 ppm	1.6105 ppm	1.4303 ppm	-0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0007 ppm	0.0021 ppm	0.0040 ppm	1.6156 ppm	1.4444 ppm	-0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	0.0026 ppm	0.0040 ppm	1.6012 ppm	1.3927 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0029 ppm	0.0041 ppm	1.6145 ppm	1.4538 ppm	-0.0005 ppm
Concentration RSD	39.0 %	25.1 %	14.6 %	1.3 %	0.5 %	2.3 %	150.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.2455 ppm	0.2111 ppm	-0.0008 ppm	4.8224 ppm	0.0029 ppm	-0.0008 ppm	-0.0036 ppm
Concentration per Run 1	4.3649 ppm	0.2110 ppm	-0.0006 ppm	4.8324 ppm	0.0034 ppm	-0.0019 ppm	-0.0036 ppm
Concentration per Run 2	4.2240 ppm	0.2113 ppm	-0.0008 ppm	4.8061 ppm	0.0022 ppm	-0.0001 ppm	-0.0048 ppm
Concentration per Run 3	4.1475 ppm	0.2109 ppm	-0.0009 ppm	4.8287 ppm	0.0031 ppm	-0.0005 ppm	-0.0023 ppm
Concentration RSD	2.6 %	0.1 %	20.3 %	0.3 %	21.7 %	115.4 %	36.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	6.6654 ppm	-0.0023 ppm	0.0454 ppm	0.0811 ppm	0.0007 ppm	0.0024 ppm
Concentration per Run 1	-0.0005 ppm	6.8578 ppm	-0.0023 ppm	0.0455 ppm	0.0827 ppm	0.0010 ppm	0.0023 ppm
Concentration per Run 2	0.0006 ppm	6.6234 ppm	-0.0025 ppm	0.0454 ppm	0.0811 ppm	-0.0001 ppm	0.0023 ppm
Concentration per Run 3	0.0005 ppm	6.5149 ppm	-0.0020 ppm	0.0454 ppm	0.0796 ppm	0.0013 ppm	0.0026 ppm
Concentration RSD	277.5 %	2.6 %	9.4 %	0.1 %	1.9 %	105.9 %	6.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0062 ppm	99.8268 %	103.4851 %	101.3012 %	101.9846 %	103.9977 %	104.1924 %
Concentration per Run 1	0.0064 ppm	97.4519 %	104.1588 %	100.6217 %	100.8628 %	104.9006 %	104.0229 %
Concentration per Run 2	0.0060 ppm	99.8323 %	103.1430 %	101.3681 %	101.7236 %	103.2089 %	104.3194 %
Concentration per Run 3	0.0062 ppm	102.1963 %	103.1536 %	101.9138 %	103.3673 %	103.8835 %	104.2349 %
Concentration RSD	3.4 %	2.4 %	0.6 %	0.6 %	1.2 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-02 WG1935332
Analysis started at: 6/19/2024 2:51:17 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0963 ppm	0.0003 ppm	0.0266 ppm	0.0301 ppm	0.0000 ppm	12.4535 ppm
Concentration per Run 1	-0.0004 ppm	0.0970 ppm	-0.0001 ppm	0.0266 ppm	0.0301 ppm	0.0000 ppm	12.5121 ppm
Concentration per Run 2	-0.0006 ppm	0.0985 ppm	-0.0003 ppm	0.0262 ppm	0.0302 ppm	0.0001 ppm	12.4457 ppm
Concentration per Run 3	-0.0007 ppm	0.0936 ppm	0.0012 ppm	0.0270 ppm	0.0301 ppm	0.0001 ppm	12.4028 ppm
Concentration RSD	34.5 %	2.6 %	293.4 %	1.6 %	0.3 %	112.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0042 ppm	0.0018 ppm	0.2624 ppm	1.2125 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0043 ppm	0.0017 ppm	0.2633 ppm	1.2723 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0040 ppm	0.0021 ppm	0.2643 ppm	1.1789 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0042 ppm	0.0015 ppm	0.2596 ppm	1.1863 ppm	0.0003 ppm
Concentration RSD	410.7 %	143.5 %	3.8 %	16.3 %	0.9 %	4.3 %	275.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7754 ppm	0.0047 ppm	-0.0005 ppm	17.6467 ppm	0.0016 ppm	-0.0018 ppm	-0.0025 ppm
Concentration per Run 1	5.9317 ppm	0.0048 ppm	-0.0002 ppm	17.7460 ppm	0.0019 ppm	-0.0029 ppm	-0.0040 ppm
Concentration per Run 2	5.7322 ppm	0.0047 ppm	-0.0005 ppm	17.6558 ppm	0.0014 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 3	5.6622 ppm	0.0047 ppm	-0.0007 ppm	17.5383 ppm	0.0016 ppm	-0.0014 ppm	-0.0033 ppm
Concentration RSD	2.4 %	0.7 %	46.4 %	0.6 %	16.2 %	59.0 %	77.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	8.6214 ppm	-0.0024 ppm	0.0679 ppm	0.0053 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0010 ppm	8.8333 ppm	-0.0015 ppm	0.0681 ppm	0.0057 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	-0.0011 ppm	8.5844 ppm	-0.0038 ppm	0.0678 ppm	0.0050 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0013 ppm	8.4465 ppm	-0.0019 ppm	0.0677 ppm	0.0053 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	569.5 %	2.3 %	50.5 %	0.3 %	6.8 %	126.4 %	36.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	99.9801 %	102.6137 %	100.9950 %	101.0899 %	102.5924 %	103.0531 %
Concentration per Run 1	0.0023 ppm	97.4580 %	101.8155 %	100.2915 %	99.6538 %	102.3249 %	102.8095 %
Concentration per Run 2	0.0020 ppm	100.9958 %	102.8981 %	101.5021 %	102.1285 %	102.7925 %	103.4063 %
Concentration per Run 3	0.0018 ppm	101.4866 %	103.1276 %	101.1913 %	101.4874 %	102.6599 %	102.9436 %
Concentration RSD	12.2 %	2.2 %	0.7 %	0.6 %	1.3 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-05 WG1935332
Analysis started at: 6/19/2024 2:55:16 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0087 ppm	0.0004 ppm	0.0256 ppm	0.0162 ppm	0.0000 ppm	23.0615 ppm
Concentration per Run 1	-0.0006 ppm	0.0073 ppm	0.0005 ppm	0.0258 ppm	0.0161 ppm	0.0000 ppm	23.1390 ppm
Concentration per Run 2	-0.0006 ppm	0.0145 ppm	-0.0010 ppm	0.0265 ppm	0.0164 ppm	0.0001 ppm	23.0213 ppm
Concentration per Run 3	-0.0005 ppm	0.0044 ppm	0.0018 ppm	0.0247 ppm	0.0162 ppm	0.0000 ppm	23.0242 ppm
Concentration RSD	13.0 %	59.6 %	335.5 %	3.6 %	0.9 %	43.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0012 ppm	0.0213 ppm	1.5585 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0011 ppm	0.0013 ppm	0.0216 ppm	1.5784 ppm	-0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0221 ppm	1.5600 ppm	-0.0028 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0013 ppm	0.0202 ppm	1.5372 ppm	-0.0004 ppm
Concentration RSD	433.3 %	128.6 %	49.5 %	12.2 %	4.7 %	1.3 %	74.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.5727 ppm	0.0010 ppm	-0.0007 ppm	13.4349 ppm	0.0002 ppm	-0.0012 ppm	-0.0006 ppm
Concentration per Run 1	6.7785 ppm	0.0010 ppm	-0.0003 ppm	13.4900 ppm	0.0000 ppm	-0.0009 ppm	-0.0033 ppm
Concentration per Run 2	6.5022 ppm	0.0010 ppm	-0.0008 ppm	13.4202 ppm	-0.0003 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 3	6.4375 ppm	0.0011 ppm	-0.0008 ppm	13.3944 ppm	0.0009 ppm	-0.0015 ppm	0.0012 ppm
Concentration RSD	2.8 %	7.7 %	40.7 %	0.4 %	346.9 %	27.1 %	364.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	2.9091 ppm	-0.0023 ppm	0.0828 ppm	0.0013 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	2.9837 ppm	-0.0022 ppm	0.0834 ppm	0.0014 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 2	-0.0023 ppm	2.8931 ppm	-0.0029 ppm	0.0825 ppm	0.0013 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 3	-0.0005 ppm	2.8505 ppm	-0.0018 ppm	0.0825 ppm	0.0013 ppm	0.0003 ppm	-0.0002 ppm
Concentration RSD	118.8 %	2.3 %	23.8 %	0.6 %	4.9 %	76.7 %	287.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	98.9690 %	102.3265 %	100.7274 %	100.8788 %	102.4122 %	103.0825 %
Concentration per Run 1	0.0010 ppm	96.5259 %	101.8298 %	100.4912 %	99.7586 %	102.4806 %	103.2327 %
Concentration per Run 2	0.0010 ppm	99.7250 %	102.6431 %	100.7589 %	101.3467 %	102.5672 %	103.3751 %
Concentration per Run 3	0.0012 ppm	100.6562 %	102.5067 %	100.9322 %	101.5312 %	102.1888 %	102.6397 %
Concentration RSD	13.9 %	2.2 %	0.4 %	0.2 %	1.0 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-06 WG1935332
Analysis started at: 6/19/2024 2:59:13 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0734 ppm	-0.0003 ppm	0.1041 ppm	0.0156 ppm	0.0000 ppm	19.8251 ppm
Concentration per Run 1	-0.0005 ppm	0.0771 ppm	0.0002 ppm	0.1053 ppm	0.0158 ppm	0.0000 ppm	19.8997 ppm
Concentration per Run 2	-0.0008 ppm	0.0722 ppm	-0.0003 ppm	0.1034 ppm	0.0156 ppm	0.0000 ppm	19.7835 ppm
Concentration per Run 3	-0.0007 ppm	0.0709 ppm	-0.0008 ppm	0.1036 ppm	0.0156 ppm	0.0001 ppm	19.7921 ppm
Concentration RSD	22.9 %	4.4 %	163.1 %	1.0 %	0.8 %	127.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0037 ppm	0.0014 ppm	0.1042 ppm	1.4993 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0036 ppm	0.0014 ppm	0.1062 ppm	1.5433 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0039 ppm	0.0013 ppm	0.1029 ppm	1.4978 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0034 ppm	0.0015 ppm	0.1037 ppm	1.4568 ppm	0.0028 ppm
Concentration RSD	102.5 %	1,497.3 %	7.6 %	7.8 %	1.7 %	2.9 %	453.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6060 ppm	0.0028 ppm	-0.0008 ppm	15.6905 ppm	0.0018 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 1	9.5939 ppm	0.0027 ppm	-0.0006 ppm	15.7435 ppm	0.0022 ppm	-0.0007 ppm	0.0018 ppm
Concentration per Run 2	9.7192 ppm	0.0026 ppm	-0.0007 ppm	15.6339 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	9.5048 ppm	0.0030 ppm	-0.0010 ppm	15.6940 ppm	0.0025 ppm	-0.0017 ppm	-0.0013 ppm
Concentration RSD	1.1 %	7.4 %	26.2 %	0.3 %	63.4 %	45.2 %	924.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	10.6903 ppm	-0.0020 ppm	0.0956 ppm	0.0024 ppm	0.0006 ppm	0.0012 ppm
Concentration per Run 1	0.0018 ppm	10.6693 ppm	-0.0020 ppm	0.0957 ppm	0.0026 ppm	-0.0003 ppm	0.0011 ppm
Concentration per Run 2	-0.0022 ppm	10.8422 ppm	-0.0023 ppm	0.0953 ppm	0.0023 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 3	-0.0012 ppm	10.5594 ppm	-0.0018 ppm	0.0959 ppm	0.0022 ppm	-0.0008 ppm	0.0014 ppm
Concentration RSD	396.1 %	1.3 %	12.7 %	0.4 %	9.1 %	320.6 %	13.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	96.2981 %	98.3091 %	96.2503 %	97.8557 %	98.5683 %	98.9050 %
Concentration per Run 1	0.0023 ppm	96.5985 %	97.5161 %	95.6770 %	99.1537 %	98.2225 %	98.8486 %
Concentration per Run 2	0.0022 ppm	95.1879 %	98.4193 %	96.1899 %	96.8598 %	98.3918 %	98.9727 %
Concentration per Run 3	0.0025 ppm	97.1079 %	98.9920 %	96.8838 %	97.5537 %	99.0906 %	98.8936 %
Concentration RSD	6.6 %	1.0 %	0.8 %	0.6 %	1.2 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 3:03:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4918 ppm	0.4835 ppm	0.4792 ppm	0.4844 ppm	0.4889 ppm	0.5039 ppm	0.5003 ppm
Concentration per Run 1	0.4971 ppm	0.4825 ppm	0.4798 ppm	0.4902 ppm	0.4895 ppm	0.5051 ppm	0.4999 ppm
Concentration per Run 2	0.4905 ppm	0.4875 ppm	0.4792 ppm	0.4805 ppm	0.4888 ppm	0.5029 ppm	0.4981 ppm
Concentration per Run 3	0.4877 ppm	0.4804 ppm	0.4786 ppm	0.4826 ppm	0.4883 ppm	0.5037 ppm	0.5030 ppm
Recovery Percentage 1	98.353 %	96.694 %	95.843 %	96.886 %	97.774 %	100.782 %	100.064 %
Concentration RSD	1.0 %	0.7 %	0.1 %	1.1 %	0.1 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4948 ppm	0.4960 ppm	0.4865 ppm	0.4809 ppm	0.5242 ppm	5.2212 ppm	0.4820 ppm
Concentration per Run 1	0.5012 ppm	0.5037 ppm	0.4930 ppm	0.4852 ppm	0.5242 ppm	5.2488 ppm	0.4896 ppm
Concentration per Run 2	0.4922 ppm	0.4934 ppm	0.4843 ppm	0.4795 ppm	0.5212 ppm	5.2307 ppm	0.4821 ppm
Concentration per Run 3	0.4910 ppm	0.4911 ppm	0.4823 ppm	0.4779 ppm	0.5271 ppm	5.1842 ppm	0.4743 ppm
Recovery Percentage 1	98.955 %	99.206 %	97.305 %	96.173 %	104.836 %	104.425 %	96.397 %
Concentration RSD	1.1 %	1.4 %	1.2 %	0.8 %	0.6 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4831 ppm	0.5018 ppm	0.4817 ppm	10.7461 ppm	0.4996 ppm	0.4855 ppm	0.4796 ppm
Concentration per Run 1	0.4917 ppm	0.5020 ppm	0.4840 ppm	10.7385 ppm	0.5060 ppm	0.4866 ppm	0.4848 ppm
Concentration per Run 2	0.4805 ppm	0.5009 ppm	0.4798 ppm	10.7446 ppm	0.4964 ppm	0.4838 ppm	0.4807 ppm
Concentration per Run 3	0.4772 ppm	0.5023 ppm	0.4814 ppm	10.7553 ppm	0.4965 ppm	0.4862 ppm	0.4732 ppm
Recovery Percentage 1	96.625 %	100.353 %	96.347 %	107.461 %	99.929 %	97.109 %	95.913 %
Concentration RSD	1.6 %	0.1 %	0.4 %	0.1 %	1.1 %	0.3 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4836 ppm	5.1006 ppm	0.5065 ppm	0.4918 ppm	0.4994 ppm	0.4886 ppm	0.4875 ppm
Concentration per Run 1	0.4799 ppm	5.1600 ppm	0.5114 ppm	0.4918 ppm	0.5062 ppm	0.4905 ppm	0.4935 ppm
Concentration per Run 2	0.4839 ppm	5.0883 ppm	0.5025 ppm	0.4914 ppm	0.4968 ppm	0.4889 ppm	0.4844 ppm
Concentration per Run 3	0.4869 ppm	5.0534 ppm	0.5056 ppm	0.4922 ppm	0.4951 ppm	0.4864 ppm	0.4847 ppm
Recovery Percentage 1	96.717 %	97.153 %	101.302 %	98.361 %	99.874 %	97.717 %	97.507 %
Concentration RSD	0.7 %	1.1 %	0.9 %	0.1 %	1.2 %	0.4 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4985 ppm	103.8554 %	103.1366 %	102.4649 %	98.3857 %	99.3775 %	100.2441 %
Concentration per Run 1	0.5049 ppm	102.2392 %	103.0485 %	102.1790 %	96.8371 %	99.3601 %	100.1411 %
Concentration per Run 2	0.4938 ppm	104.5953 %	103.1346 %	102.6127 %	99.1033 %	99.3199 %	100.1526 %
Concentration per Run 3	0.4967 ppm	104.7317 %	103.2265 %	102.6031 %	99.2167 %	99.4525 %	100.4386 %
Recovery Percentage 1	99.702 %						
Concentration RSD	1.2 %	1.3 %	0.1 %	0.2 %	1.4 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 3:07:09 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0009 ppm	0.0008 ppm	0.0024 ppm	-0.0002 ppm	0.0000 ppm	0.0127 ppm
Concentration per Run 1	-0.0012 ppm	-0.0046 ppm	0.0018 ppm	0.0024 ppm	0.0000 ppm	0.0001 ppm	0.0115 ppm
Concentration per Run 2	-0.0003 ppm	0.0068 ppm	-0.0002 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0160 ppm
Concentration per Run 3	-0.0007 ppm	-0.0049 ppm	0.0008 ppm	0.0031 ppm	-0.0003 ppm	0.0000 ppm	0.0105 ppm
Recovery Percentage 1	-10.272 %	-0.889 %	27.250 %	8.102 %	-1.867 %	0.403 %	12.653 %
Concentration RSD	66.8 %	749.6 %	122.4 %	27.0 %	101.0 %	302.3 %	23.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0059 ppm	-0.0848 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	-0.0001 ppm	0.0010 ppm	0.0061 ppm	-0.0621 ppm	-0.0040 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0010 ppm	0.0048 ppm	-0.1015 ppm	-0.0055 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0070 ppm	-0.0907 ppm	-0.0027 ppm
Recovery Percentage 1	1.025 %	-1.695 %	2.035 %	10.354 %	11.895 %	-3.391 %	-40.762 %
Concentration RSD	13.0 %	116.5 %	247.0 %	3.1 %	18.1 %	24.0 %	33.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0003 ppm	0.0003 ppm	0.2826 ppm	-0.0008 ppm	-0.0008 ppm	-0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.2885 ppm	-0.0008 ppm	-0.0007 ppm	-0.0007 ppm
Concentration per Run 2	-0.0012 ppm	0.0004 ppm	0.0006 ppm	0.2834 ppm	-0.0010 ppm	-0.0008 ppm	-0.0033 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	0.0003 ppm	0.2759 ppm	-0.0004 ppm	-0.0010 ppm	-0.0032 ppm
Recovery Percentage 1	-0.551 %	2.960 %	0.546 %	14.131 %	-3.002 %	-8.193 %	-4.801 %
Concentration RSD	107.5 %	44.3 %	108.0 %	2.2 %	40.6 %	18.8 %	59.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0032 ppm	0.0004 ppm	-0.0001 ppm	0.0008 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 2	0.0003 ppm	-0.0008 ppm	-0.0003 ppm	-0.0001 ppm	0.0010 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	-0.0003 ppm	-0.0003 ppm	0.0009 ppm	-0.0009 ppm	-0.0005 ppm
Recovery Percentage 1	-3.220 %	0.113 %	-0.092 %	-1.898 %	9.005 %	-2.077 %	-4.494 %
Concentration RSD	262.0 %	403.5 %	904.9 %	61.4 %	13.0 %	142.1 %	11.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	97.6458 %	99.6592 %	98.9941 %	99.3536 %	100.4912 %	101.6205 %
Concentration per Run 1	0.0009 ppm	95.2439 %	99.4149 %	98.4036 %	98.0480 %	100.5399 %	101.4887 %
Concentration per Run 2	0.0010 ppm	98.2400 %	99.4579 %	98.8886 %	99.8780 %	100.5101 %	101.3383 %
Concentration per Run 3	0.0010 ppm	99.4535 %	100.1049 %	99.6901 %	100.1347 %	100.4235 %	102.0346 %
Recovery Percentage 1	18.932 %						
Concentration RSD	3.4 %	2.2 %	0.4 %	0.7 %	1.1 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: zWG1936224-1 WG1936224
Analysis started at: 6/19/2024 3:13:47 PM
Rack 2
Vial 24
Comment Fe+ rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0091 ppm	-0.0003 ppm	0.0027 ppm	0.0001 ppm	0.0000 ppm	0.0287 ppm
Concentration per Run 1	-0.0004 ppm	-0.0018 ppm	-0.0006 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0308 ppm
Concentration per Run 2	-0.0007 ppm	0.0185 ppm	-0.0004 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	0.0269 ppm
Concentration per Run 3	-0.0004 ppm	0.0106 ppm	0.0002 ppm	0.0037 ppm	0.0001 ppm	0.0000 ppm	0.0285 ppm
Recovery Percentage 1	-7.177 %	9.120 %	-9.116 %	9.110 %	0.626 %	1.059 %	28.731 %
Concentration RSD	38.8 %	112.6 %	153.7 %	32.6 %	84.1 %	71.9 %	6.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0012 ppm	0.1282 ppm	-0.0732 ppm	-0.0057 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0012 ppm	0.1288 ppm	-0.0575 ppm	-0.0050 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0011 ppm	0.1275 ppm	-0.0952 ppm	-0.0069 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0013 ppm	0.1283 ppm	-0.0669 ppm	-0.0053 ppm
Recovery Percentage 1	-0.128 %	-1.230 %	6.143 %	11.920 %	256.406 %	-2.928 %	-57.183 %
Concentration RSD	1,294.9 %	68.6 %	30.5 %	5.2 %	0.5 %	26.8 %	17.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0069 ppm	0.0008 ppm	-0.0005 ppm	0.2677 ppm	-0.0005 ppm	-0.0007 ppm	-0.0009 ppm
Concentration per Run 1	0.0063 ppm	0.0010 ppm	-0.0003 ppm	0.2660 ppm	-0.0010 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0083 ppm	0.0007 ppm	-0.0007 ppm	0.2709 ppm	0.0004 ppm	-0.0009 ppm	-0.0006 ppm
Concentration per Run 3	0.0060 ppm	0.0007 ppm	-0.0005 ppm	0.2661 ppm	-0.0010 ppm	-0.0008 ppm	-0.0023 ppm
Recovery Percentage 1	6.895 %	8.130 %	-1.023 %	13.384 %	-2.085 %	-6.836 %	-1.816 %
Concentration RSD	17.8 %	21.3 %	39.0 %	1.1 %	156.2 %	35.4 %	134.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0163 ppm	0.0005 ppm	-0.0002 ppm	0.0014 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0134 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0238 ppm	0.0014 ppm	-0.0003 ppm	0.0017 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	-0.0013 ppm	0.0117 ppm	0.0000 ppm	-0.0003 ppm	0.0015 ppm	0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-4.229 %	3.259 %	0.910 %	-1.887 %	14.285 %	-0.529 %	-1.524 %
Concentration RSD	179.1 %	40.1 %	187.8 %	94.8 %	19.9 %	711.8 %	116.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	101.7665 %	100.9005 %	100.4081 %	99.0043 %	99.0061 %	100.4712 %
Concentration per Run 1	0.0016 ppm	100.3349 %	100.9545 %	99.9758 %	97.8790 %	99.2819 %	99.9154 %
Concentration per Run 2	0.0020 ppm	102.3290 %	100.2234 %	101.0605 %	99.6544 %	98.4358 %	101.1539 %
Concentration per Run 3	0.0018 ppm	102.6356 %	101.5235 %	100.1880 %	99.4795 %	99.3006 %	100.3443 %
Recovery Percentage 1	35.875 %						
Concentration RSD	10.8 %	1.2 %	0.6 %	0.6 %	1.0 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-07 WG1935332
Analysis started at: 6/19/2024 3:20:47 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0116 ppm	0.0011 ppm	0.0994 ppm	0.0690 ppm	0.0000 ppm	87.3378 ppm
Concentration per Run 1	-0.0013 ppm	0.0126 ppm	-0.0005 ppm	0.1011 ppm	0.0693 ppm	0.0000 ppm	87.5535 ppm
Concentration per Run 2	-0.0007 ppm	0.0134 ppm	0.0021 ppm	0.0978 ppm	0.0690 ppm	0.0000 ppm	87.1775 ppm
Concentration per Run 3	-0.0008 ppm	0.0088 ppm	0.0018 ppm	0.0993 ppm	0.0687 ppm	0.0000 ppm	87.2825 ppm
Concentration RSD	32.0 %	21.0 %	126.8 %	1.6 %	0.4 %	18.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0035 ppm	0.0222 ppm	5.9939 ppm	-0.0019 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0030 ppm	0.0231 ppm	6.0568 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0035 ppm	0.0207 ppm	5.9640 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0041 ppm	0.0227 ppm	5.9609 ppm	-0.0027 ppm
Concentration RSD	82.6 %	426.4 %	66.7 %	14.9 %	5.7 %	0.9 %	34.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6008 ppm	0.1206 ppm	-0.0001 ppm	11.1590 ppm	0.0001 ppm	-0.0010 ppm	-0.0012 ppm
Concentration per Run 1	14.7803 ppm	0.1209 ppm	-0.0002 ppm	11.1989 ppm	-0.0001 ppm	-0.0019 ppm	-0.0009 ppm
Concentration per Run 2	14.5823 ppm	0.1203 ppm	0.0003 ppm	11.1342 ppm	0.0004 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 3	14.4397 ppm	0.1207 ppm	-0.0003 ppm	11.1439 ppm	0.0000 ppm	-0.0009 ppm	-0.0021 ppm
Concentration RSD	1.2 %	0.3 %	409.5 %	0.3 %	248.0 %	80.4 %	71.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	4.7108 ppm	-0.0023 ppm	0.4510 ppm	0.0014 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0011 ppm	4.7660 ppm	-0.0030 ppm	0.4528 ppm	0.0014 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	4.7020 ppm	-0.0013 ppm	0.4498 ppm	0.0015 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0013 ppm	4.6643 ppm	-0.0025 ppm	0.4505 ppm	0.0013 ppm	0.0003 ppm	0.0004 ppm
Concentration RSD	62.1 %	1.1 %	39.6 %	0.3 %	10.2 %	91.6 %	31.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	100.9019 %	102.0627 %	98.4627 %	100.4567 %	101.2053 %	100.3227 %
Concentration per Run 1	0.0017 ppm	100.2724 %	101.0422 %	98.4656 %	100.5768 %	100.4292 %	100.6031 %
Concentration per Run 2	0.0018 ppm	100.7136 %	102.8374 %	98.3256 %	100.1450 %	101.9403 %	100.2112 %
Concentration per Run 3	0.0019 ppm	101.7199 %	102.3084 %	98.5969 %	100.6483 %	101.2464 %	100.1538 %
Concentration RSD	4.7 %	0.7 %	0.9 %	0.1 %	0.3 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-08 WG1935332
Analysis started at: 6/19/2024 3:24:52 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0893 ppm	0.0000 ppm	0.0138 ppm	0.0111 ppm	0.0001 ppm	11.5414 ppm
Concentration per Run 1	-0.0005 ppm	0.0859 ppm	-0.0001 ppm	0.0151 ppm	0.0110 ppm	0.0001 ppm	11.5440 ppm
Concentration per Run 2	-0.0010 ppm	0.0965 ppm	0.0005 ppm	0.0125 ppm	0.0111 ppm	0.0001 ppm	11.5402 ppm
Concentration per Run 3	-0.0006 ppm	0.0856 ppm	-0.0004 ppm	0.0138 ppm	0.0112 ppm	0.0001 ppm	11.5401 ppm
Concentration RSD	41.0 %	7.0 %	6,278.8 %	9.1 %	1.1 %	13.9 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0031 ppm	0.0013 ppm	0.1813 ppm	1.0800 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0031 ppm	0.0011 ppm	0.1830 ppm	1.0980 ppm	-0.0016 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0031 ppm	0.0017 ppm	0.1814 ppm	1.0596 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0032 ppm	0.0011 ppm	0.1795 ppm	1.0825 ppm	-0.0011 ppm
Concentration RSD	100.7 %	116.8 %	2.0 %	28.8 %	1.0 %	1.8 %	34.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5003 ppm	0.0119 ppm	-0.0009 ppm	18.2021 ppm	0.0004 ppm	-0.0012 ppm	-0.0017 ppm
Concentration per Run 1	5.6480 ppm	0.0119 ppm	-0.0007 ppm	18.2755 ppm	0.0002 ppm	-0.0012 ppm	-0.0020 ppm
Concentration per Run 2	5.4601 ppm	0.0119 ppm	-0.0015 ppm	18.1646 ppm	0.0005 ppm	-0.0008 ppm	-0.0021 ppm
Concentration per Run 3	5.3927 ppm	0.0118 ppm	-0.0006 ppm	18.1663 ppm	0.0005 ppm	-0.0015 ppm	-0.0009 ppm
Concentration RSD	2.4 %	0.4 %	57.4 %	0.3 %	46.3 %	30.4 %	41.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	7.3527 ppm	-0.0027 ppm	0.0565 ppm	0.0035 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	-0.0036 ppm	7.5555 ppm	-0.0030 ppm	0.0567 ppm	0.0035 ppm	-0.0011 ppm	0.0007 ppm
Concentration per Run 2	0.0014 ppm	7.2817 ppm	-0.0027 ppm	0.0565 ppm	0.0036 ppm	0.0026 ppm	0.0006 ppm
Concentration per Run 3	0.0013 ppm	7.2209 ppm	-0.0024 ppm	0.0564 ppm	0.0035 ppm	-0.0006 ppm	0.0003 ppm
Concentration RSD	912.3 %	2.4 %	10.0 %	0.3 %	1.9 %	675.5 %	38.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	99.2353 %	100.8903 %	99.7255 %	100.4090 %	101.0422 %	102.0631 %
Concentration per Run 1	0.0020 ppm	97.0017 %	100.9540 %	99.2362 %	99.5326 %	100.9941 %	102.1002 %
Concentration per Run 2	0.0019 ppm	99.4944 %	101.4132 %	99.2432 %	100.2758 %	101.5047 %	101.6558 %
Concentration per Run 3	0.0019 ppm	101.2099 %	100.3039 %	100.6970 %	101.4186 %	100.6277 %	102.4334 %
Concentration RSD	3.5 %	2.1 %	0.6 %	0.8 %	0.9 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-09 WG1935332
Analysis started at: 6/19/2024 3:28:51 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0029 ppm	0.0005 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm	0.0408 ppm
Concentration per Run 1	-0.0007 ppm	0.0018 ppm	0.0007 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm	0.0391 ppm
Concentration per Run 2	-0.0002 ppm	0.0077 ppm	-0.0011 ppm	0.0014 ppm	0.0011 ppm	0.0000 ppm	0.0407 ppm
Concentration per Run 3	-0.0004 ppm	-0.0008 ppm	0.0018 ppm	0.0012 ppm	0.0012 ppm	-0.0001 ppm	0.0427 ppm
Concentration RSD	61.9 %	150.0 %	300.5 %	7.1 %	4.1 %	557.0 %	4.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0083 ppm	-0.0486 ppm	-0.0042 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0077 ppm	-0.0505 ppm	-0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0079 ppm	-0.0415 ppm	-0.0055 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0094 ppm	-0.0539 ppm	-0.0041 ppm
Concentration RSD	143.6 %	361.9 %	23.5 %	69.3 %	10.8 %	13.2 %	29.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0112 ppm	0.0003 ppm	-0.0015 ppm	0.1457 ppm	-0.0006 ppm	-0.0019 ppm	-0.0019 ppm
Concentration per Run 1	0.0105 ppm	0.0004 ppm	-0.0017 ppm	0.1452 ppm	-0.0007 ppm	-0.0005 ppm	-0.0038 ppm
Concentration per Run 2	0.0113 ppm	0.0004 ppm	-0.0013 ppm	0.1451 ppm	-0.0008 ppm	-0.0019 ppm	-0.0032 ppm
Concentration per Run 3	0.0117 ppm	0.0001 ppm	-0.0014 ppm	0.1469 ppm	-0.0002 ppm	-0.0033 ppm	0.0013 ppm
Concentration RSD	5.6 %	60.0 %	12.9 %	0.7 %	61.8 %	74.3 %	147.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	0.0142 ppm	-0.0029 ppm	0.0001 ppm	0.0010 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	0.0140 ppm	-0.0030 ppm	0.0000 ppm	0.0012 ppm	0.0018 ppm	-0.0003 ppm
Concentration per Run 2	0.0030 ppm	0.0154 ppm	-0.0033 ppm	0.0000 ppm	0.0008 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 3	0.0008 ppm	0.0132 ppm	-0.0024 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	147.3 %	7.9 %	16.9 %	186.5 %	17.8 %	81.4 %	202.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0103 ppm	97.9411 %	101.1271 %	99.5218 %	100.9551 %	102.6147 %	103.4028 %
Concentration per Run 1	0.0105 ppm	95.6180 %	100.6755 %	99.0987 %	99.8718 %	102.7826 %	103.4239 %
Concentration per Run 2	0.0105 ppm	98.5773 %	101.2739 %	99.4903 %	101.3124 %	102.7477 %	103.5428 %
Concentration per Run 3	0.0101 ppm	99.6280 %	101.4319 %	99.9765 %	101.6810 %	102.3136 %	103.2416 %
Concentration RSD	2.4 %	2.1 %	0.4 %	0.4 %	0.9 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-10 WG1935332
Analysis started at: 6/19/2024 3:32:49 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0055 ppm	0.0010 ppm	0.0282 ppm	0.0220 ppm	0.0000 ppm	10.2960 ppm
Concentration per Run 1	-0.0009 ppm	0.0049 ppm	-0.0002 ppm	0.0276 ppm	0.0221 ppm	0.0000 ppm	10.3202 ppm
Concentration per Run 2	-0.0004 ppm	0.0152 ppm	0.0010 ppm	0.0282 ppm	0.0220 ppm	0.0000 ppm	10.2896 ppm
Concentration per Run 3	-0.0003 ppm	-0.0035 ppm	0.0021 ppm	0.0287 ppm	0.0219 ppm	0.0000 ppm	10.2784 ppm
Concentration RSD	52.8 %	168.8 %	119.4 %	2.0 %	0.4 %	222.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0025 ppm	0.0010 ppm	0.0010 ppm	2.9696 ppm	0.9147 ppm	-0.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0024 ppm	0.0013 ppm	0.0012 ppm	2.9674 ppm	0.9460 ppm	-0.0040 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	0.0008 ppm	0.0011 ppm	2.9695 ppm	0.9116 ppm	-0.0042 ppm
Concentration per Run 3	0.0000 ppm	0.0030 ppm	0.0008 ppm	0.0008 ppm	2.9718 ppm	0.8866 ppm	0.0010 ppm
Concentration RSD	171.1 %	16.3 %	30.1 %	16.2 %	0.1 %	3.3 %	123.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.5874 ppm	0.0411 ppm	-0.0012 ppm	8.9333 ppm	0.0015 ppm	-0.0014 ppm	-0.0003 ppm
Concentration per Run 1	4.7178 ppm	0.0412 ppm	-0.0012 ppm	8.9894 ppm	0.0020 ppm	-0.0025 ppm	0.0002 ppm
Concentration per Run 2	4.5385 ppm	0.0411 ppm	-0.0013 ppm	8.9154 ppm	0.0018 ppm	-0.0006 ppm	-0.0014 ppm
Concentration per Run 3	4.5059 ppm	0.0411 ppm	-0.0011 ppm	8.8949 ppm	0.0007 ppm	-0.0011 ppm	0.0004 ppm
Concentration RSD	2.5 %	0.0 %	8.2 %	0.6 %	44.7 %	70.8 %	374.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	7.9990 ppm	-0.0023 ppm	0.0397 ppm	0.0011 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 1	-0.0015 ppm	8.2195 ppm	-0.0034 ppm	0.0397 ppm	0.0011 ppm	0.0006 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	7.9425 ppm	-0.0021 ppm	0.0397 ppm	0.0010 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 3	-0.0008 ppm	7.8349 ppm	-0.0015 ppm	0.0395 ppm	0.0013 ppm	0.0025 ppm	-0.0003 ppm
Concentration RSD	101.9 %	2.5 %	41.7 %	0.4 %	12.5 %	142.5 %	21.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	97.8896 %	101.2272 %	99.1866 %	99.0687 %	100.7324 %	101.2848 %
Concentration per Run 1	0.0062 ppm	95.4328 %	100.4447 %	98.7071 %	97.7988 %	100.3513 %	101.5457 %
Concentration per Run 2	0.0060 ppm	98.7780 %	101.6160 %	99.5054 %	99.5442 %	101.1720 %	101.4124 %
Concentration per Run 3	0.0058 ppm	99.4581 %	101.6208 %	99.3474 %	99.8630 %	100.6740 %	100.8963 %
Concentration RSD	3.4 %	2.2 %	0.7 %	0.4 %	1.1 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433067-02 WG1935332
Analysis started at: 6/19/2024 3:36:47 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0019 ppm	0.0004 ppm	0.0152 ppm	0.0054 ppm	0.0000 ppm	27.4722 ppm
Concentration per Run 1	-0.0010 ppm	0.0038 ppm	0.0006 ppm	0.0159 ppm	0.0053 ppm	0.0000 ppm	27.6404 ppm
Concentration per Run 2	-0.0011 ppm	-0.0075 ppm	0.0001 ppm	0.0156 ppm	0.0055 ppm	0.0000 ppm	27.5019 ppm
Concentration per Run 3	-0.0007 ppm	0.0094 ppm	0.0005 ppm	0.0143 ppm	0.0055 ppm	0.0001 ppm	27.2743 ppm
Concentration RSD	21.7 %	457.0 %	76.2 %	5.5 %	1.9 %	52.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0021 ppm	0.0945 ppm	2.5472 ppm	-0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0023 ppm	0.0964 ppm	2.5912 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0022 ppm	0.0937 ppm	2.5165 ppm	-0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0000 ppm	0.0017 ppm	0.0934 ppm	2.5339 ppm	-0.0024 ppm
Concentration RSD	2,095.1 %	48.9 %	1,779.7 %	15.1 %	1.8 %	1.5 %	106.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0749 ppm	1.5281 ppm	0.0023 ppm	109.5639 ppm	0.0037 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 1	6.2523 ppm	1.5396 ppm	0.0020 ppm	109.9391 ppm	0.0038 ppm	-0.0021 ppm	0.0021 ppm
Concentration per Run 2	6.0458 ppm	1.5278 ppm	0.0024 ppm	109.6228 ppm	0.0034 ppm	-0.0011 ppm	-0.0029 ppm
Concentration per Run 3	5.9265 ppm	1.5168 ppm	0.0027 ppm	109.1300 ppm	0.0038 ppm	-0.0005 ppm	0.0013 ppm
Concentration RSD	2.7 %	0.7 %	15.3 %	0.4 %	6.3 %	62.5 %	1,596.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	4.6927 ppm	-0.0021 ppm	0.1854 ppm	0.0009 ppm	0.0018 ppm	-0.0004 ppm
Concentration per Run 1	-0.0011 ppm	4.8252 ppm	-0.0018 ppm	0.1858 ppm	0.0008 ppm	0.0023 ppm	-0.0006 ppm
Concentration per Run 2	0.0009 ppm	4.6737 ppm	-0.0020 ppm	0.1853 ppm	0.0009 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	4.5793 ppm	-0.0026 ppm	0.1852 ppm	0.0010 ppm	0.0019 ppm	-0.0004 ppm
Concentration RSD	1,006.5 %	2.6 %	17.9 %	0.2 %	11.6 %	28.7 %	61.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	98.7488 %	102.8319 %	99.1100 %	99.7559 %	102.3440 %	101.9783 %
Concentration per Run 1	0.0017 ppm	96.0831 %	102.4623 %	98.5491 %	98.2789 %	102.4164 %	102.1242 %
Concentration per Run 2	0.0015 ppm	99.3598 %	103.1338 %	98.9009 %	100.1663 %	102.8459 %	101.8138 %
Concentration per Run 3	0.0017 ppm	100.8034 %	102.8996 %	99.8800 %	100.8226 %	101.7698 %	101.9968 %
Concentration RSD	7.3 %	2.4 %	0.3 %	0.7 %	1.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433067-04 WG1935332
Analysis started at: 6/19/2024 3:40:46 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0070 ppm	-0.0001 ppm	0.0152 ppm	0.0053 ppm	0.0000 ppm	27.3134 ppm
Concentration per Run 1	-0.0006 ppm	0.0014 ppm	-0.0001 ppm	0.0156 ppm	0.0054 ppm	0.0000 ppm	27.3354 ppm
Concentration per Run 2	-0.0004 ppm	0.0102 ppm	-0.0012 ppm	0.0151 ppm	0.0054 ppm	0.0000 ppm	27.2870 ppm
Concentration per Run 3	-0.0006 ppm	0.0093 ppm	0.0010 ppm	0.0149 ppm	0.0052 ppm	0.0001 ppm	27.3178 ppm
Concentration RSD	14.6 %	70.0 %	879.0 %	2.6 %	2.4 %	37.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0024 ppm	0.0997 ppm	2.5267 ppm	-0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0024 ppm	0.0993 ppm	2.5759 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0027 ppm	0.1001 ppm	2.5082 ppm	-0.0032 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0022 ppm	0.0998 ppm	2.4960 ppm	-0.0036 ppm
Concentration RSD	161.5 %	22.1 %	239.1 %	8.5 %	0.4 %	1.7 %	67.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0735 ppm	1.4845 ppm	0.0022 ppm	108.9005 ppm	0.0029 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 1	6.2357 ppm	1.4850 ppm	0.0025 ppm	109.0409 ppm	0.0032 ppm	-0.0012 ppm	0.0016 ppm
Concentration per Run 2	6.0394 ppm	1.4829 ppm	0.0022 ppm	108.9777 ppm	0.0036 ppm	-0.0014 ppm	0.0009 ppm
Concentration per Run 3	5.9453 ppm	1.4856 ppm	0.0018 ppm	108.6829 ppm	0.0020 ppm	-0.0019 ppm	-0.0021 ppm
Concentration RSD	2.4 %	0.1 %	14.5 %	0.2 %	28.2 %	24.8 %	1,181.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.7034 ppm	-0.0021 ppm	0.1836 ppm	0.0011 ppm	0.0011 ppm	-0.0004 ppm
Concentration per Run 1	-0.0006 ppm	4.8273 ppm	-0.0018 ppm	0.1854 ppm	0.0009 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 2	-0.0006 ppm	4.6767 ppm	-0.0025 ppm	0.1827 ppm	0.0012 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	4.6061 ppm	-0.0020 ppm	0.1827 ppm	0.0011 ppm	0.0017 ppm	-0.0005 ppm
Concentration RSD	73.7 %	2.4 %	18.0 %	0.8 %	11.0 %	51.8 %	54.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	99.4048 %	103.8792 %	99.7735 %	100.7398 %	103.6136 %	102.7697 %
Concentration per Run 1	0.0012 ppm	96.8981 %	103.4067 %	99.2215 %	99.2057 %	103.5083 %	102.4501 %
Concentration per Run 2	0.0013 ppm	99.8348 %	103.7870 %	100.4405 %	101.2710 %	103.1811 %	103.5559 %
Concentration per Run 3	0.0012 ppm	101.4815 %	104.4438 %	99.6585 %	101.7426 %	104.1515 %	102.3031 %
Concentration RSD	2.6 %	2.3 %	0.5 %	0.6 %	1.3 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433137-02D2 WG1935332
Analysis started at: 6/19/2024 3:44:45 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.3091 ppm	0.0501 ppm	7.3028 ppm	0.1472 ppm	0.0001 ppm	26.9022 ppm
Concentration per Run 1	-0.0006 ppm	0.3071 ppm	0.0508 ppm	7.5146 ppm	0.1475 ppm	0.0001 ppm	27.0909 ppm
Concentration per Run 2	-0.0002 ppm	0.3080 ppm	0.0493 ppm	7.2363 ppm	0.1466 ppm	0.0000 ppm	26.9038 ppm
Concentration per Run 3	-0.0004 ppm	0.3121 ppm	0.0502 ppm	7.1575 ppm	0.1476 ppm	0.0001 ppm	26.7120 ppm
Concentration RSD	47.7 %	0.9 %	1.5 %	2.6 %	0.4 %	114.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0118 ppm	0.0895 ppm	0.0133 ppm	3.0981 ppm	158.3414 ppm	0.2467 ppm
Concentration per Run 1	0.0001 ppm	0.0125 ppm	0.0922 ppm	0.0136 ppm	3.1106 ppm	157.9029 ppm	0.2496 ppm
Concentration per Run 2	0.0001 ppm	0.0116 ppm	0.0887 ppm	0.0135 ppm	3.0920 ppm	159.0689 ppm	0.2462 ppm
Concentration per Run 3	0.0000 ppm	0.0113 ppm	0.0875 ppm	0.0127 ppm	3.0916 ppm	158.0524 ppm	0.2444 ppm
Concentration RSD	93.5 %	5.1 %	2.8 %	3.9 %	0.3 %	0.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.0674 ppm	0.2268 ppm	0.0021 ppm	488.1671 ppm	0.0667 ppm	0.0035 ppm	0.0046 ppm
Concentration per Run 1	23.6408 ppm	0.2270 ppm	0.0026 ppm	490.4631 ppm	0.0695 ppm	0.0030 ppm	0.0035 ppm
Concentration per Run 2	22.9495 ppm	0.2260 ppm	0.0022 ppm	487.5563 ppm	0.0662 ppm	0.0041 ppm	0.0049 ppm
Concentration per Run 3	22.6118 ppm	0.2273 ppm	0.0017 ppm	486.4818 ppm	0.0645 ppm	0.0034 ppm	0.0053 ppm
Concentration RSD	2.3 %	0.3 %	19.8 %	0.4 %	3.8 %	16.6 %	21.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	9.7122 ppm	0.0183 ppm	0.3009 ppm	0.0680 ppm	0.0014 ppm	0.0127 ppm
Concentration per Run 1	0.0005 ppm	9.9696 ppm	0.0191 ppm	0.3019 ppm	0.0700 ppm	-0.0009 ppm	0.0133 ppm
Concentration per Run 2	-0.0002 ppm	9.6332 ppm	0.0185 ppm	0.3005 ppm	0.0676 ppm	0.0028 ppm	0.0125 ppm
Concentration per Run 3	0.0017 ppm	9.5337 ppm	0.0175 ppm	0.3002 ppm	0.0665 ppm	0.0024 ppm	0.0123 ppm
Concentration RSD	152.0 %	2.4 %	4.4 %	0.3 %	2.7 %	139.1 %	4.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0343 ppm	95.3669 %	100.1139 %	93.3122 %	94.4342 %	98.7650 %	97.3477 %
Concentration per Run 1	0.0353 ppm	93.2442 %	99.5739 %	92.4661 %	93.3530 %	98.5884 %	97.1271 %
Concentration per Run 2	0.0341 ppm	95.8932 %	100.1427 %	93.3540 %	94.6752 %	98.8981 %	97.3650 %
Concentration per Run 3	0.0335 ppm	96.9633 %	100.6249 %	94.1163 %	95.2745 %	98.8085 %	97.5510 %
Concentration RSD	2.7 %	2.0 %	0.5 %	0.9 %	1.0 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 3:48:44 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4906 ppm	0.4790 ppm	0.4775 ppm	0.4876 ppm	0.4851 ppm	0.5016 ppm	0.4962 ppm
Concentration per Run 1	0.4972 ppm	0.4861 ppm	0.4785 ppm	0.4962 ppm	0.4880 ppm	0.5027 ppm	0.4959 ppm
Concentration per Run 2	0.4890 ppm	0.4798 ppm	0.4765 ppm	0.4832 ppm	0.4850 ppm	0.4999 ppm	0.4986 ppm
Concentration per Run 3	0.4856 ppm	0.4711 ppm	0.4774 ppm	0.4834 ppm	0.4825 ppm	0.5022 ppm	0.4941 ppm
Recovery Percentage 1	98.117 %	95.802 %	95.501 %	97.520 %	97.029 %	100.324 %	99.245 %
Concentration RSD	1.2 %	1.6 %	0.2 %	1.5 %	0.6 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4928 ppm	0.4934 ppm	0.4850 ppm	0.4817 ppm	0.5136 ppm	5.2955 ppm	0.4852 ppm
Concentration per Run 1	0.4996 ppm	0.5011 ppm	0.4916 ppm	0.4896 ppm	0.5192 ppm	5.3887 ppm	0.4904 ppm
Concentration per Run 2	0.4923 ppm	0.4927 ppm	0.4836 ppm	0.4799 ppm	0.5096 ppm	5.2728 ppm	0.4856 ppm
Concentration per Run 3	0.4864 ppm	0.4865 ppm	0.4798 ppm	0.4756 ppm	0.5122 ppm	5.2250 ppm	0.4797 ppm
Recovery Percentage 1	98.551 %	98.687 %	97.000 %	96.342 %	102.726 %	105.910 %	97.038 %
Concentration RSD	1.3 %	1.5 %	1.2 %	1.5 %	1.0 %	1.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4801 ppm	0.4991 ppm	0.4789 ppm	10.5985 ppm	0.4971 ppm	0.4835 ppm	0.4766 ppm
Concentration per Run 1	0.4886 ppm	0.5014 ppm	0.4824 ppm	10.6640 ppm	0.5066 ppm	0.4833 ppm	0.4870 ppm
Concentration per Run 2	0.4772 ppm	0.4978 ppm	0.4787 ppm	10.5785 ppm	0.4960 ppm	0.4823 ppm	0.4685 ppm
Concentration per Run 3	0.4746 ppm	0.4979 ppm	0.4755 ppm	10.5529 ppm	0.4888 ppm	0.4851 ppm	0.4745 ppm
Recovery Percentage 1	96.023 %	99.810 %	95.776 %	105.985 %	99.425 %	96.708 %	95.329 %
Concentration RSD	1.5 %	0.4 %	0.7 %	0.5 %	1.8 %	0.3 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4788 ppm	5.1824 ppm	0.5063 ppm	0.4890 ppm	0.4966 ppm	0.4837 ppm	0.4870 ppm
Concentration per Run 1	0.4851 ppm	5.2490 ppm	0.5132 ppm	0.4910 ppm	0.5034 ppm	0.4888 ppm	0.4940 ppm
Concentration per Run 2	0.4743 ppm	5.1733 ppm	0.5070 ppm	0.4880 ppm	0.4953 ppm	0.4816 ppm	0.4850 ppm
Concentration per Run 3	0.4769 ppm	5.1250 ppm	0.4987 ppm	0.4879 ppm	0.4912 ppm	0.4805 ppm	0.4819 ppm
Recovery Percentage 1	95.751 %	98.713 %	101.257 %	97.790 %	99.325 %	96.731 %	97.392 %
Concentration RSD	1.2 %	1.2 %	1.4 %	0.4 %	1.3 %	0.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4968 ppm	105.0181 %	104.3888 %	102.9489 %	99.7284 %	100.3168 %	100.9118 %
Concentration per Run 1	0.5046 ppm	103.9134 %	103.3304 %	102.5067 %	98.9473 %	99.6129 %	100.3016 %
Concentration per Run 2	0.4960 ppm	104.8389 %	104.5404 %	103.1452 %	99.7706 %	100.2203 %	101.0960 %
Concentration per Run 3	0.4900 ppm	106.3018 %	105.2955 %	103.1948 %	100.4675 %	101.1171 %	101.3379 %
Recovery Percentage 1	99.368 %						
Concentration RSD	1.5 %	1.1 %	0.9 %	0.4 %	0.8 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 3:52:42 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0053 ppm	-0.0005 ppm	0.0022 ppm	-0.0004 ppm	0.0001 ppm	0.0126 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0017 ppm	0.0016 ppm	-0.0004 ppm	0.0001 ppm	0.0109 ppm
Concentration per Run 2	-0.0006 ppm	0.0071 ppm	-0.0007 ppm	0.0032 ppm	-0.0002 ppm	0.0000 ppm	0.0166 ppm
Concentration per Run 3	-0.0001 ppm	0.0080 ppm	-0.0026 ppm	0.0019 ppm	-0.0004 ppm	0.0001 ppm	0.0104 ppm
Recovery Percentage 1	-3.485 %	5.259 %	-17.170 %	7.412 %	-3.712 %	2.496 %	12.645 %
Concentration RSD	129.9 %	75.7 %	419.7 %	37.6 %	33.1 %	54.5 %	27.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0059 ppm	-0.0410 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0058 ppm	-0.0668 ppm	-0.0052 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0050 ppm	-0.0274 ppm	-0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0069 ppm	-0.0287 ppm	-0.0034 ppm
Recovery Percentage 1	1.634 %	-0.548 %	0.471 %	8.698 %	11.844 %	-1.639 %	-30.466 %
Concentration RSD	88.0 %	194.5 %	783.0 %	15.3 %	16.6 %	54.6 %	78.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.1725 ppm	-0.0003 ppm	-0.0013 ppm	-0.0005 ppm
Concentration per Run 1	0.0007 ppm	0.0002 ppm	0.0004 ppm	0.1726 ppm	-0.0011 ppm	-0.0024 ppm	0.0008 ppm
Concentration per Run 2	-0.0021 ppm	0.0004 ppm	0.0001 ppm	0.1758 ppm	0.0003 ppm	-0.0003 ppm	-0.0040 ppm
Concentration per Run 3	-0.0005 ppm	0.0001 ppm	-0.0002 ppm	0.1692 ppm	-0.0003 ppm	-0.0013 ppm	0.0017 ppm
Recovery Percentage 1	-0.656 %	2.275 %	0.266 %	8.626 %	-1.381 %	-12.942 %	-1.031 %
Concentration RSD	211.1 %	51.4 %	235.7 %	1.9 %	193.5 %	81.8 %	596.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0105 ppm	-0.0010 ppm	-0.0002 ppm	0.0009 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0005 ppm	0.0119 ppm	-0.0022 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0011 ppm	0.0102 ppm	-0.0007 ppm	-0.0003 ppm	0.0008 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 3	-0.0017 ppm	0.0094 ppm	-0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0019 ppm	-0.0005 ppm
Recovery Percentage 1	-0.025 %	2.099 %	-2.051 %	-1.979 %	8.686 %	3.870 %	-2.312 %
Concentration RSD	59,104.2 %	11.9 %	102.4 %	40.6 %	17.8 %	142.9 %	97.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	98.8891 %	99.8331 %	99.8683 %	100.6549 %	100.7428 %	102.6747 %
Concentration per Run 1	0.0013 ppm	96.6320 %	99.1665 %	99.5464 %	99.4255 %	100.5184 %	102.4295 %
Concentration per Run 2	0.0012 ppm	99.5159 %	100.2933 %	100.1184 %	101.4118 %	101.1278 %	102.8355 %
Concentration per Run 3	0.0012 ppm	100.5194 %	100.0396 %	99.9402 %	101.1273 %	100.5823 %	102.7592 %
Recovery Percentage 1	24.664 %						
Concentration RSD	6.5 %	2.0 %	0.6 %	0.3 %	1.1 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935872-1 WG1935872
Analysis started at: 6/19/2024 4:02:04 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0023 ppm	-0.0002 ppm	0.0016 ppm	-0.0004 ppm	0.0000 ppm	0.0200 ppm
Concentration per Run 1	-0.0002 ppm	0.0017 ppm	0.0009 ppm	0.0018 ppm	-0.0004 ppm	0.0000 ppm	0.0199 ppm
Concentration per Run 2	-0.0006 ppm	-0.0009 ppm	-0.0006 ppm	0.0014 ppm	-0.0003 ppm	0.0001 ppm	0.0164 ppm
Concentration per Run 3	-0.0006 ppm	0.0061 ppm	-0.0009 ppm	0.0017 ppm	-0.0004 ppm	0.0000 ppm	0.0236 ppm
Recovery Percentage 1	-7.116 %	2.286 %	-6.680 %	5.459 %	-3.869 %	0.537 %	19.969 %
Concentration RSD	44.0 %	154.2 %	467.4 %	11.6 %	12.9 %	266.8 %	18.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm	0.0048 ppm	-0.0373 ppm	-0.0017 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0049 ppm	-0.0405 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0032 ppm	-0.0121 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0063 ppm	-0.0591 ppm	-0.0021 ppm
Recovery Percentage 1	0.225 %	-1.328 %	2.449 %	-1.299 %	9.606 %	-1.490 %	-17.126 %
Concentration RSD	662.4 %	103.3 %	81.3 %	207.9 %	31.7 %	63.5 %	26.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0044 ppm	0.0003 ppm	-0.0008 ppm	137.9339 ppm	-0.0002 ppm	-0.0016 ppm	-0.0015 ppm
Concentration per Run 1	0.0046 ppm	0.0002 ppm	-0.0011 ppm	137.5645 ppm	-0.0008 ppm	-0.0024 ppm	-0.0019 ppm
Concentration per Run 2	0.0048 ppm	0.0002 ppm	-0.0011 ppm	137.9647 ppm	0.0001 ppm	-0.0014 ppm	-0.0031 ppm
Concentration per Run 3	0.0038 ppm	0.0004 ppm	-0.0002 ppm	138.2725 ppm	0.0002 ppm	-0.0009 ppm	0.0006 ppm
Recovery Percentage 1	4.387 %	2.759 %	-1.603 %	6,896.696 %	-0.649 %	-15.662 %	-2.930 %
Concentration RSD	12.0 %	48.3 %	69.3 %	0.3 %	344.7 %	49.7 %	128.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	0.0282 ppm	-0.0008 ppm	-0.0002 ppm	0.0008 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 1	0.0032 ppm	0.0275 ppm	-0.0013 ppm	-0.0003 ppm	0.0008 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 2	0.0007 ppm	0.0272 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0299 ppm	-0.0010 ppm	-0.0001 ppm	0.0008 ppm	-0.0009 ppm	-0.0001 ppm
Recovery Percentage 1	14.591 %	5.642 %	-1.567 %	-1.893 %	7.850 %	2.396 %	-1.733 %
Concentration RSD	104.0 %	5.3 %	80.3 %	45.0 %	2.3 %	264.3 %	51.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	116.0949 %	101.7867 %	104.2330 %	100.7653 %	96.8252 %	100.4014 %
Concentration per Run 1	0.0008 ppm	118.1394 %	102.3797 %	104.8903 %	99.7494 %	97.2001 %	100.2035 %
Concentration per Run 2	0.0006 ppm	115.9496 %	101.4733 %	104.2684 %	100.8849 %	96.5387 %	100.4236 %
Concentration per Run 3	0.0009 ppm	114.1956 %	101.5071 %	103.5404 %	101.6614 %	96.7368 %	100.5772 %
Recovery Percentage 1	15.402 %						
Concentration RSD	19.5 %	1.7 %	0.5 %	0.6 %	1.0 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935872-2 WG1935872
Analysis started at: 6/19/2024 4:06:22 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0467 ppm	1.8808 ppm	0.1194 ppm	0.8943 ppm	1.8829 ppm	0.0484 ppm	9.5816 ppm
Concentration per Run 1	0.0468 ppm	1.8777 ppm	0.1165 ppm	0.8921 ppm	1.8926 ppm	0.0487 ppm	9.5994 ppm
Concentration per Run 2	0.0464 ppm	1.8903 ppm	0.1199 ppm	0.8877 ppm	1.8799 ppm	0.0483 ppm	9.5931 ppm
Concentration per Run 3	0.0470 ppm	1.8743 ppm	0.1217 ppm	0.9030 ppm	1.8762 ppm	0.0481 ppm	9.5523 ppm
Concentration RSD	0.6 %	0.4 %	2.2 %	0.9 %	0.5 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0507 ppm	0.4659 ppm	0.1864 ppm	0.2377 ppm	1.0090 ppm	10.0778 ppm	-0.0010 ppm
Concentration per Run 1	0.0505 ppm	0.4653 ppm	0.1859 ppm	0.2369 ppm	1.0182 ppm	10.1289 ppm	-0.0011 ppm
Concentration per Run 2	0.0506 ppm	0.4617 ppm	0.1848 ppm	0.2360 ppm	1.0064 ppm	10.1029 ppm	-0.0007 ppm
Concentration per Run 3	0.0511 ppm	0.4706 ppm	0.1885 ppm	0.2402 ppm	1.0024 ppm	10.0015 ppm	-0.0011 ppm
Concentration RSD	0.6 %	1.0 %	1.0 %	0.9 %	0.8 %	0.7 %	25.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.1606 ppm	0.4925 ppm	0.9396 ppm	10.3287 ppm	0.4730 ppm	0.5317 ppm	0.4713 ppm
Concentration per Run 1	9.1598 ppm	0.4932 ppm	0.9285 ppm	10.3560 ppm	0.4728 ppm	0.5300 ppm	0.4714 ppm
Concentration per Run 2	9.0784 ppm	0.4933 ppm	0.9355 ppm	10.3510 ppm	0.4694 ppm	0.5317 ppm	0.4683 ppm
Concentration per Run 3	9.2437 ppm	0.4910 ppm	0.9549 ppm	10.2792 ppm	0.4768 ppm	0.5335 ppm	0.4741 ppm
Concentration RSD	0.9 %	0.3 %	1.5 %	0.4 %	0.8 %	0.3 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1168 ppm	1.1649 ppm	0.9468 ppm	0.9167 ppm	0.9455 ppm	0.1207 ppm	0.4769 ppm
Concentration per Run 1	0.1171 ppm	1.1674 ppm	0.9393 ppm	0.9220 ppm	0.9448 ppm	0.1208 ppm	0.4760 ppm
Concentration per Run 2	0.1163 ppm	1.1536 ppm	0.9426 ppm	0.9167 ppm	0.9378 ppm	0.1209 ppm	0.4732 ppm
Concentration per Run 3	0.1169 ppm	1.1737 ppm	0.9585 ppm	0.9115 ppm	0.9540 ppm	0.1203 ppm	0.4816 ppm
Concentration RSD	0.4 %	0.9 %	1.1 %	0.6 %	0.9 %	0.2 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4720 ppm	103.1588 %	100.7954 %	99.1039 %	96.8210 %	97.0772 %	98.4362 %
Concentration per Run 1	0.4709 ppm	102.8883 %	100.2636 %	99.2037 %	96.4767 %	96.7899 %	98.4098 %
Concentration per Run 2	0.4688 ppm	104.0743 %	100.5861 %	99.2274 %	97.8105 %	96.8413 %	98.5722 %
Concentration per Run 3	0.4765 ppm	102.5139 %	101.5366 %	98.8806 %	96.1758 %	97.6004 %	98.3266 %
Concentration RSD	0.8 %	0.8 %	0.7 %	0.2 %	0.9 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432990-01 WG1935872
Analysis started at: 6/19/2024 4:10:20 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0074 ppm	0.0001 ppm	0.0035 ppm	0.0381 ppm	0.0000 ppm	74.8268 ppm
Concentration per Run 1	-0.0008 ppm	0.0013 ppm	-0.0001 ppm	0.0039 ppm	0.0382 ppm	0.0000 ppm	74.7932 ppm
Concentration per Run 2	-0.0005 ppm	0.0170 ppm	0.0012 ppm	0.0020 ppm	0.0381 ppm	0.0001 ppm	74.8657 ppm
Concentration per Run 3	-0.0003 ppm	0.0040 ppm	-0.0009 ppm	0.0044 ppm	0.0379 ppm	0.0000 ppm	74.8215 ppm
Concentration RSD	51.9 %	112.6 %	1,032.5 %	36.1 %	0.4 %	94.3 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0238 ppm	0.0937 ppm	-0.0016 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0228 ppm	0.0785 ppm	-0.0036 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0251 ppm	0.0993 ppm	-0.0015 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0006 ppm	0.0234 ppm	0.1031 ppm	0.0003 ppm
Concentration RSD	38.5 %	122.6 %	138.3 %	44.5 %	5.1 %	14.2 %	121.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1468 ppm	0.3432 ppm	0.0012 ppm	142.0958 ppm	0.0005 ppm	-0.0018 ppm	0.0018 ppm
Concentration per Run 1	1.1527 ppm	0.3439 ppm	0.0017 ppm	141.6627 ppm	0.0004 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 2	1.1458 ppm	0.3427 ppm	0.0013 ppm	142.4427 ppm	0.0006 ppm	-0.0010 ppm	0.0032 ppm
Concentration per Run 3	1.1418 ppm	0.3430 ppm	0.0006 ppm	142.1820 ppm	0.0006 ppm	-0.0029 ppm	0.0023 ppm
Concentration RSD	0.5 %	0.2 %	46.4 %	0.3 %	28.1 %	52.4 %	88.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.1548 ppm	0.0049 ppm	0.0923 ppm	0.0013 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0015 ppm	0.1579 ppm	0.0049 ppm	0.0919 ppm	0.0014 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 2	0.0020 ppm	0.1586 ppm	0.0042 ppm	0.0927 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0022 ppm	0.1478 ppm	0.0057 ppm	0.0923 ppm	0.0013 ppm	-0.0006 ppm	-0.0001 ppm
Concentration RSD	397.4 %	3.9 %	14.4 %	0.4 %	11.0 %	147.3 %	115.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0024 ppm	102.3369 %	99.0149 %	96.5867 %	96.0543 %	95.3857 %	95.6724 %
Concentration per Run 1	0.0023 ppm	101.9057 %	99.0112 %	97.0673 %	95.9297 %	95.4449 %	95.9513 %
Concentration per Run 2	0.0022 ppm	102.1575 %	98.6042 %	96.2408 %	95.8678 %	94.9255 %	95.4836 %
Concentration per Run 3	0.0026 ppm	102.9474 %	99.4293 %	96.4520 %	96.3654 %	95.7868 %	95.5824 %
Concentration RSD	8.0 %	0.5 %	0.4 %	0.4 %	0.3 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935872-3 WG1935872
Analysis started at: 6/19/2024 4:14:18 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0465 ppm	1.8813 ppm	0.1243 ppm	0.8809 ppm	1.8968 ppm	0.0486 ppm	82.9316 ppm
Concentration per Run 1	0.0466 ppm	1.8856 ppm	0.1248 ppm	0.8865 ppm	1.8942 ppm	0.0487 ppm	82.9888 ppm
Concentration per Run 2	0.0461 ppm	1.8808 ppm	0.1239 ppm	0.8790 ppm	1.8962 ppm	0.0486 ppm	82.8019 ppm
Concentration per Run 3	0.0468 ppm	1.8774 ppm	0.1242 ppm	0.8772 ppm	1.9000 ppm	0.0484 ppm	83.0041 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	0.6 %	0.2 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0494 ppm	0.4519 ppm	0.1819 ppm	0.2367 ppm	0.9986 ppm	10.0579 ppm	-0.0009 ppm
Concentration per Run 1	0.0495 ppm	0.4545 ppm	0.1829 ppm	0.2374 ppm	1.0057 ppm	10.0939 ppm	-0.0003 ppm
Concentration per Run 2	0.0493 ppm	0.4509 ppm	0.1825 ppm	0.2362 ppm	0.9929 ppm	10.0188 ppm	-0.0021 ppm
Concentration per Run 3	0.0492 ppm	0.4502 ppm	0.1803 ppm	0.2363 ppm	0.9971 ppm	10.0609 ppm	-0.0004 ppm
Concentration RSD	0.3 %	0.5 %	0.8 %	0.3 %	0.7 %	0.4 %	111.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8507 ppm	0.8291 ppm	0.9280 ppm	149.7303 ppm	0.4590 ppm	0.5257 ppm	0.4688 ppm
Concentration per Run 1	9.9104 ppm	0.8309 ppm	0.9241 ppm	149.8981 ppm	0.4607 ppm	0.5273 ppm	0.4699 ppm
Concentration per Run 2	9.8353 ppm	0.8281 ppm	0.9305 ppm	149.4823 ppm	0.4581 ppm	0.5250 ppm	0.4661 ppm
Concentration per Run 3	9.8064 ppm	0.8283 ppm	0.9293 ppm	149.8104 ppm	0.4583 ppm	0.5247 ppm	0.4703 ppm
Concentration RSD	0.5 %	0.2 %	0.4 %	0.1 %	0.3 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1212 ppm	1.3095 ppm	0.9202 ppm	0.9887 ppm	0.9347 ppm	0.1201 ppm	0.4758 ppm
Concentration per Run 1	0.1221 ppm	1.3231 ppm	0.9250 ppm	0.9872 ppm	0.9402 ppm	0.1209 ppm	0.4793 ppm
Concentration per Run 2	0.1209 ppm	1.3040 ppm	0.9176 ppm	0.9896 ppm	0.9319 ppm	0.1184 ppm	0.4753 ppm
Concentration per Run 3	0.1208 ppm	1.3014 ppm	0.9182 ppm	0.9891 ppm	0.9319 ppm	0.1211 ppm	0.4727 ppm
Concentration RSD	0.6 %	0.9 %	0.4 %	0.1 %	0.5 %	1.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4660 ppm	101.8047 %	99.9799 %	95.2092 %	94.9936 %	95.9446 %	95.3637 %
Concentration per Run 1	0.4688 ppm	101.4339 %	100.4924 %	95.1472 %	94.5576 %	96.7265 %	95.3054 %
Concentration per Run 2	0.4644 ppm	102.0551 %	100.0444 %	95.0898 %	95.4183 %	95.7434 %	95.0399 %
Concentration per Run 3	0.4648 ppm	101.9251 %	99.4029 %	95.3906 %	95.0050 %	95.3640 %	95.7458 %
Concentration RSD	0.5 %	0.3 %	0.5 %	0.2 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935872-4 WG1935872
Analysis started at: 6/19/2024 4:18:17 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0138 ppm	-0.0008 ppm	0.0026 ppm	0.0382 ppm	0.0000 ppm	74.7368 ppm
Concentration per Run 1	-0.0003 ppm	0.0203 ppm	-0.0007 ppm	0.0022 ppm	0.0381 ppm	0.0000 ppm	74.7755 ppm
Concentration per Run 2	-0.0012 ppm	0.0138 ppm	0.0000 ppm	0.0026 ppm	0.0383 ppm	0.0001 ppm	74.7558 ppm
Concentration per Run 3	-0.0009 ppm	0.0071 ppm	-0.0016 ppm	0.0030 ppm	0.0383 ppm	0.0000 ppm	74.6792 ppm
Concentration RSD	62.8 %	47.8 %	99.3 %	15.1 %	0.3 %	214.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0089 ppm	0.0875 ppm	-0.0018 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0081 ppm	0.0804 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0098 ppm	0.0839 ppm	-0.0023 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0010 ppm	0.0088 ppm	0.0982 ppm	-0.0024 ppm
Concentration RSD	57.0 %	218.6 %	58.1 %	6.6 %	9.5 %	10.8 %	48.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1649 ppm	0.3423 ppm	0.0010 ppm	141.7473 ppm	0.0000 ppm	-0.0006 ppm	0.0013 ppm
Concentration per Run 1	1.1733 ppm	0.3423 ppm	0.0014 ppm	142.0742 ppm	0.0003 ppm	-0.0003 ppm	0.0022 ppm
Concentration per Run 2	1.1595 ppm	0.3425 ppm	0.0013 ppm	141.7091 ppm	-0.0004 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	1.1619 ppm	0.3422 ppm	0.0004 ppm	141.4587 ppm	0.0001 ppm	-0.0011 ppm	0.0009 ppm
Concentration RSD	0.6 %	0.0 %	54.2 %	0.2 %	7,814.6 %	81.2 %	62.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.1395 ppm	-0.0006 ppm	0.0926 ppm	0.0011 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	-0.0032 ppm	0.1384 ppm	-0.0007 ppm	0.0922 ppm	0.0011 ppm	-0.0019 ppm	-0.0002 ppm
Concentration per Run 2	-0.0009 ppm	0.1406 ppm	-0.0009 ppm	0.0928 ppm	0.0008 ppm	-0.0018 ppm	-0.0004 ppm
Concentration per Run 3	0.0008 ppm	0.1394 ppm	-0.0001 ppm	0.0927 ppm	0.0014 ppm	0.0007 ppm	-0.0001 ppm
Concentration RSD	179.9 %	0.8 %	76.7 %	0.4 %	24.5 %	146.5 %	57.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0024 ppm	101.8891 %	100.2030 %	96.9870 %	95.5262 %	96.0751 %	96.0671 %
Concentration per Run 1	0.0024 ppm	101.2478 %	99.9667 %	96.6539 %	94.9426 %	95.9961 %	95.7651 %
Concentration per Run 2	0.0024 ppm	102.5942 %	99.9728 %	97.4864 %	96.1985 %	95.9064 %	96.4611 %
Concentration per Run 3	0.0025 ppm	101.8254 %	100.6696 %	96.8208 %	95.4374 %	96.3228 %	95.9752 %
Concentration RSD	2.7 %	0.7 %	0.4 %	0.5 %	0.7 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432990-02 WG1935872
Analysis started at: 6/19/2024 4:22:15 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	-0.0027 ppm	0.0006 ppm	0.0032 ppm	0.0470 ppm	0.0001 ppm	70.0185 ppm
Concentration per Run 1	-0.0009 ppm	-0.0048 ppm	0.0000 ppm	0.0023 ppm	0.0475 ppm	0.0000 ppm	70.1045 ppm
Concentration per Run 2	-0.0008 ppm	0.0075 ppm	0.0010 ppm	0.0038 ppm	0.0465 ppm	0.0001 ppm	70.0611 ppm
Concentration per Run 3	-0.0009 ppm	-0.0108 ppm	0.0008 ppm	0.0036 ppm	0.0468 ppm	0.0000 ppm	69.8899 ppm
Concentration RSD	1.7 %	342.0 %	85.0 %	25.5 %	1.1 %	61.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0007 ppm	0.0050 ppm	0.1214 ppm	-0.0017 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0006 ppm	0.0049 ppm	0.1290 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0045 ppm	0.1141 ppm	-0.0012 ppm
Concentration per Run 3	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0056 ppm	0.1212 ppm	-0.0031 ppm
Concentration RSD	21.8 %	35.7 %	38.0 %	24.6 %	11.5 %	6.2 %	74.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5161 ppm	0.3168 ppm	-0.0006 ppm	137.8398 ppm	0.0005 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 1	1.5293 ppm	0.3178 ppm	-0.0004 ppm	138.2075 ppm	0.0007 ppm	-0.0012 ppm	0.0007 ppm
Concentration per Run 2	1.5120 ppm	0.3166 ppm	-0.0006 ppm	137.7595 ppm	0.0005 ppm	-0.0006 ppm	-0.0009 ppm
Concentration per Run 3	1.5069 ppm	0.3159 ppm	-0.0008 ppm	137.5524 ppm	0.0002 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	0.8 %	0.3 %	29.2 %	0.2 %	47.0 %	52.3 %	775.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.1121 ppm	-0.0008 ppm	0.0849 ppm	0.0008 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	-0.0012 ppm	0.1128 ppm	-0.0002 ppm	0.0855 ppm	0.0009 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	-0.0029 ppm	0.1099 ppm	-0.0009 ppm	0.0845 ppm	0.0009 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.1135 ppm	-0.0013 ppm	0.0846 ppm	0.0006 ppm	-0.0011 ppm	-0.0004 ppm
Concentration RSD	116.6 %	1.7 %	68.4 %	0.6 %	18.9 %	45.0 %	78.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0025 ppm	102.2489 %	100.3005 %	97.2253 %	95.8610 %	96.2453 %	96.7397 %
Concentration per Run 1	0.0026 ppm	101.1027 %	100.4103 %	97.4446 %	94.7747 %	96.6969 %	96.4953 %
Concentration per Run 2	0.0024 ppm	102.3077 %	99.7472 %	96.6544 %	95.9591 %	95.3797 %	96.5712 %
Concentration per Run 3	0.0025 ppm	103.3364 %	100.7439 %	97.5770 %	96.8493 %	96.6595 %	97.1525 %
Concentration RSD	4.6 %	1.1 %	0.5 %	0.5 %	1.1 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432990-03 WG1935872
Analysis started at: 6/19/2024 4:26:13 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0021 ppm	-0.0008 ppm	0.0038 ppm	0.0496 ppm	0.0000 ppm	68.7741 ppm
Concentration per Run 1	-0.0007 ppm	-0.0007 ppm	0.0000 ppm	0.0033 ppm	0.0498 ppm	0.0001 ppm	68.8306 ppm
Concentration per Run 2	-0.0006 ppm	0.0013 ppm	-0.0029 ppm	0.0036 ppm	0.0497 ppm	0.0000 ppm	68.6523 ppm
Concentration per Run 3	-0.0010 ppm	0.0056 ppm	0.0005 ppm	0.0047 ppm	0.0494 ppm	0.0001 ppm	68.8393 ppm
Concentration RSD	25.8 %	158.6 %	233.9 %	18.9 %	0.5 %	49.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0008 ppm	0.0104 ppm	0.1212 ppm	-0.0011 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0007 ppm	0.0124 ppm	0.1208 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0008 ppm	0.0092 ppm	0.1490 ppm	-0.0010 ppm
Concentration per Run 3	0.0003 ppm	-0.0003 ppm	0.0004 ppm	0.0009 ppm	0.0096 ppm	0.0938 ppm	-0.0033 ppm
Concentration RSD	36.5 %	30.8 %	30.8 %	11.8 %	16.9 %	22.8 %	179.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.7843 ppm	0.2748 ppm	-0.0010 ppm	136.7651 ppm	-0.0001 ppm	-0.0010 ppm	-0.0021 ppm
Concentration per Run 1	1.7924 ppm	0.2754 ppm	-0.0008 ppm	136.9500 ppm	0.0003 ppm	-0.0001 ppm	-0.0016 ppm
Concentration per Run 2	1.7802 ppm	0.2740 ppm	-0.0007 ppm	136.4922 ppm	-0.0003 ppm	-0.0009 ppm	-0.0019 ppm
Concentration per Run 3	1.7803 ppm	0.2749 ppm	-0.0015 ppm	136.8532 ppm	-0.0002 ppm	-0.0020 ppm	-0.0028 ppm
Concentration RSD	0.4 %	0.3 %	44.5 %	0.2 %	305.9 %	94.5 %	28.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	0.1326 ppm	-0.0007 ppm	0.0795 ppm	0.0011 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 1	0.0015 ppm	0.1307 ppm	0.0005 ppm	0.0794 ppm	0.0012 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 2	0.0051 ppm	0.1322 ppm	-0.0016 ppm	0.0796 ppm	0.0012 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.1347 ppm	-0.0010 ppm	0.0796 ppm	0.0010 ppm	-0.0011 ppm	-0.0001 ppm
Concentration RSD	108.3 %	1.5 %	162.7 %	0.1 %	13.4 %	71.5 %	30.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	105.5420 %	102.3926 %	100.4938 %	98.5872 %	98.5108 %	99.4870 %
Concentration per Run 1	0.0030 ppm	104.8065 %	102.0091 %	101.0087 %	98.0212 %	98.1821 %	99.8062 %
Concentration per Run 2	0.0028 ppm	106.2756 %	102.7734 %	100.4073 %	99.3272 %	98.9612 %	99.3576 %
Concentration per Run 3	0.0029 ppm	105.5440 %	102.3955 %	100.0653 %	98.4131 %	98.3891 %	99.2973 %
Concentration RSD	2.3 %	0.7 %	0.4 %	0.5 %	0.7 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432990-04 WG1935872
Analysis started at: 6/19/2024 4:30:11 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0010 ppm	-0.0017 ppm	0.0032 ppm	0.0456 ppm	0.0000 ppm	73.0447 ppm
Concentration per Run 1	-0.0002 ppm	-0.0012 ppm	-0.0020 ppm	0.0035 ppm	0.0451 ppm	0.0000 ppm	73.0019 ppm
Concentration per Run 2	-0.0005 ppm	0.0081 ppm	0.0009 ppm	0.0022 ppm	0.0459 ppm	0.0001 ppm	73.1002 ppm
Concentration per Run 3	-0.0007 ppm	-0.0038 ppm	-0.0038 ppm	0.0039 ppm	0.0459 ppm	0.0000 ppm	73.0319 ppm
Concentration RSD	51.8 %	615.8 %	142.3 %	26.8 %	1.0 %	207.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0007 ppm	0.0098 ppm	0.1076 ppm	-0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0008 ppm	0.0102 ppm	0.1051 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0078 ppm	0.1171 ppm	-0.0054 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0005 ppm	0.0114 ppm	0.1006 ppm	-0.0021 ppm
Concentration RSD	24.6 %	125.8 %	144.9 %	26.8 %	19.0 %	7.9 %	148.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4504 ppm	0.3809 ppm	-0.0005 ppm	141.8313 ppm	0.0000 ppm	-0.0010 ppm	-0.0017 ppm
Concentration per Run 1	1.4602 ppm	0.3808 ppm	0.0003 ppm	141.6878 ppm	-0.0004 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 2	1.4474 ppm	0.3805 ppm	-0.0009 ppm	141.9361 ppm	0.0004 ppm	-0.0020 ppm	-0.0062 ppm
Concentration per Run 3	1.4436 ppm	0.3814 ppm	-0.0007 ppm	141.8701 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration RSD	0.6 %	0.1 %	138.5 %	0.1 %	863.2 %	99.1 %	228.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.1101 ppm	-0.0009 ppm	0.0779 ppm	0.0010 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.1110 ppm	-0.0011 ppm	0.0782 ppm	0.0010 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.1072 ppm	-0.0006 ppm	0.0777 ppm	0.0010 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 3	0.0012 ppm	0.1122 ppm	-0.0011 ppm	0.0777 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	342.7 %	2.4 %	33.0 %	0.4 %	8.5 %	112.5 %	401.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	102.4159 %	99.3008 %	96.9259 %	95.7954 %	95.5209 %	96.3216 %
Concentration per Run 1	0.0012 ppm	101.2271 %	99.5273 %	97.1638 %	94.6040 %	95.3715 %	96.6773 %
Concentration per Run 2	0.0013 ppm	103.0988 %	99.3868 %	96.8084 %	96.5233 %	95.8197 %	96.2324 %
Concentration per Run 3	0.0014 ppm	102.9218 %	98.9882 %	96.8055 %	96.2591 %	95.3716 %	96.0550 %
Concentration RSD	7.1 %	1.0 %	0.3 %	0.2 %	1.1 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433097-02 WG1935872
Analysis started at: 6/19/2024 4:34:09 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0025 ppm	0.0002 ppm	0.0727 ppm	0.0305 ppm	0.0000 ppm	83.1824 ppm
Concentration per Run 1	-0.0005 ppm	-0.0113 ppm	0.0009 ppm	0.0724 ppm	0.0304 ppm	0.0000 ppm	82.9704 ppm
Concentration per Run 2	-0.0005 ppm	0.0081 ppm	0.0005 ppm	0.0737 ppm	0.0306 ppm	0.0000 ppm	83.1788 ppm
Concentration per Run 3	-0.0010 ppm	-0.0041 ppm	-0.0007 ppm	0.0719 ppm	0.0305 ppm	0.0000 ppm	83.3980 ppm
Concentration RSD	36.6 %	398.3 %	383.4 %	1.3 %	0.3 %	14.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0004 ppm	0.0006 ppm	0.0452 ppm	0.3375 ppm	0.0019 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	0.0004 ppm	0.0006 ppm	0.0446 ppm	0.3628 ppm	0.0038 ppm
Concentration per Run 2	0.0002 ppm	-0.0005 ppm	0.0001 ppm	0.0005 ppm	0.0438 ppm	0.2929 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0008 ppm	0.0471 ppm	0.3568 ppm	0.0007 ppm
Concentration RSD	36.4 %	30.4 %	84.2 %	28.8 %	3.8 %	11.5 %	85.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4249 ppm	0.0379 ppm	-0.0004 ppm	142.4377 ppm	-0.0005 ppm	-0.0015 ppm	-0.0020 ppm
Concentration per Run 1	0.4302 ppm	0.0380 ppm	-0.0012 ppm	142.3159 ppm	-0.0007 ppm	-0.0017 ppm	-0.0041 ppm
Concentration per Run 2	0.4230 ppm	0.0378 ppm	-0.0002 ppm	142.3966 ppm	-0.0002 ppm	-0.0017 ppm	-0.0027 ppm
Concentration per Run 3	0.4216 ppm	0.0379 ppm	0.0001 ppm	142.6005 ppm	-0.0007 ppm	-0.0011 ppm	0.0007 ppm
Concentration RSD	1.1 %	0.3 %	155.7 %	0.1 %	46.4 %	25.3 %	123.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	3.4282 ppm	-0.0004 ppm	0.1232 ppm	0.0008 ppm	-0.0011 ppm	0.0014 ppm
Concentration per Run 1	0.0007 ppm	3.4408 ppm	0.0004 ppm	0.1232 ppm	0.0006 ppm	-0.0013 ppm	0.0013 ppm
Concentration per Run 2	0.0030 ppm	3.4299 ppm	0.0002 ppm	0.1231 ppm	0.0009 ppm	-0.0014 ppm	0.0013 ppm
Concentration per Run 3	0.0006 ppm	3.4139 ppm	-0.0019 ppm	0.1232 ppm	0.0008 ppm	-0.0006 ppm	0.0015 ppm
Concentration RSD	97.5 %	0.4 %	292.6 %	0.1 %	20.4 %	39.5 %	7.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	101.8950 %	99.7358 %	96.6439 %	95.1806 %	95.6057 %	95.6725 %
Concentration per Run 1	0.0006 ppm	100.6145 %	99.7305 %	96.5487 %	93.9412 %	95.7724 %	95.1954 %
Concentration per Run 2	0.0005 ppm	102.3581 %	100.1564 %	96.4372 %	95.7799 %	95.8268 %	95.8403 %
Concentration per Run 3	0.0006 ppm	102.7124 %	99.3205 %	96.9458 %	95.8208 %	95.2177 %	95.9818 %
Concentration RSD	8.6 %	1.1 %	0.4 %	0.3 %	1.1 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433097-03 WG1935872
Analysis started at: 6/19/2024 4:38:07 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0116 ppm	0.0026 ppm	0.0302 ppm	0.0421 ppm	0.0000 ppm	41.3750 ppm
Concentration per Run 1	-0.0006 ppm	0.0007 ppm	0.0023 ppm	0.0301 ppm	0.0419 ppm	0.0000 ppm	41.3399 ppm
Concentration per Run 2	-0.0001 ppm	0.0180 ppm	0.0035 ppm	0.0302 ppm	0.0423 ppm	0.0000 ppm	41.3306 ppm
Concentration per Run 3	-0.0009 ppm	0.0162 ppm	0.0020 ppm	0.0302 ppm	0.0422 ppm	0.0000 ppm	41.4544 ppm
Concentration RSD	82.0 %	81.7 %	30.5 %	0.1 %	0.4 %	140.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0006 ppm	0.0114 ppm	0.8646 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0004 ppm	0.0109 ppm	0.8809 ppm	0.0018 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0012 ppm	0.0111 ppm	0.8813 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0121 ppm	0.8316 ppm	0.0011 ppm
Concentration RSD	24.8 %	26.1 %	75.8 %	75.6 %	5.7 %	3.3 %	94.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.5337 ppm	0.1887 ppm	0.0006 ppm	145.5473 ppm	0.0009 ppm	0.0053 ppm	-0.0012 ppm
Concentration per Run 1	2.5523 ppm	0.1894 ppm	0.0007 ppm	145.2163 ppm	0.0010 ppm	0.0046 ppm	-0.0027 ppm
Concentration per Run 2	2.5286 ppm	0.1886 ppm	0.0006 ppm	145.5699 ppm	0.0015 ppm	0.0065 ppm	-0.0001 ppm
Concentration per Run 3	2.5202 ppm	0.1881 ppm	0.0005 ppm	145.8556 ppm	0.0001 ppm	0.0047 ppm	-0.0009 ppm
Concentration RSD	0.7 %	0.3 %	15.8 %	0.2 %	84.2 %	19.6 %	106.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.1901 ppm	-0.0005 ppm	0.1047 ppm	0.0009 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	-0.0005 ppm	0.1936 ppm	-0.0006 ppm	0.1046 ppm	0.0013 ppm	-0.0016 ppm	0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.1893 ppm	-0.0004 ppm	0.1050 ppm	0.0008 ppm	0.0008 ppm	0.0006 ppm
Concentration per Run 3	0.0006 ppm	0.1875 ppm	-0.0003 ppm	0.1045 ppm	0.0005 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	991.2 %	1.6 %	33.6 %	0.2 %	45.6 %	1,545.6 %	89.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0103 ppm	102.4847 %	99.5699 %	97.8211 %	95.7786 %	95.5329 %	96.5341 %
Concentration per Run 1	0.0104 ppm	101.8686 %	99.3509 %	97.3325 %	95.2565 %	95.4411 %	96.6064 %
Concentration per Run 2	0.0101 ppm	102.5406 %	99.9805 %	98.2276 %	95.8418 %	95.7268 %	96.7446 %
Concentration per Run 3	0.0104 ppm	103.0448 %	99.3785 %	97.9032 %	96.2376 %	95.4309 %	96.2513 %
Concentration RSD	1.5 %	0.6 %	0.4 %	0.5 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 4:42:06 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4854 ppm	0.4752 ppm	0.4708 ppm	0.4785 ppm	0.4831 ppm	0.4983 ppm	0.4938 ppm
Concentration per Run 1	0.4906 ppm	0.4826 ppm	0.4695 ppm	0.4834 ppm	0.4830 ppm	0.4990 ppm	0.4951 ppm
Concentration per Run 2	0.4850 ppm	0.4724 ppm	0.4734 ppm	0.4788 ppm	0.4821 ppm	0.4983 ppm	0.4920 ppm
Concentration per Run 3	0.4806 ppm	0.4708 ppm	0.4694 ppm	0.4732 ppm	0.4844 ppm	0.4977 ppm	0.4941 ppm
Recovery Percentage 1	97.084 %	95.047 %	94.156 %	95.692 %	96.629 %	99.666 %	98.751 %
Concentration RSD	1.0 %	1.3 %	0.5 %	1.1 %	0.2 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4907 ppm	0.4946 ppm	0.4809 ppm	0.4758 ppm	0.5174 ppm	5.2974 ppm	0.4907 ppm
Concentration per Run 1	0.4969 ppm	0.5017 ppm	0.4872 ppm	0.4811 ppm	0.5148 ppm	5.3318 ppm	0.4925 ppm
Concentration per Run 2	0.4893 ppm	0.4938 ppm	0.4806 ppm	0.4757 ppm	0.5181 ppm	5.2890 ppm	0.4924 ppm
Concentration per Run 3	0.4859 ppm	0.4883 ppm	0.4750 ppm	0.4705 ppm	0.5192 ppm	5.2714 ppm	0.4872 ppm
Recovery Percentage 1	98.138 %	98.920 %	96.187 %	95.153 %	103.473 %	105.949 %	98.138 %
Concentration RSD	1.2 %	1.4 %	1.3 %	1.1 %	0.4 %	0.6 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4815 ppm	0.4959 ppm	0.4770 ppm	10.5075 ppm	0.4973 ppm	0.4788 ppm	0.4766 ppm
Concentration per Run 1	0.4866 ppm	0.4968 ppm	0.4801 ppm	10.5361 ppm	0.5047 ppm	0.4781 ppm	0.4797 ppm
Concentration per Run 2	0.4804 ppm	0.4957 ppm	0.4749 ppm	10.5194 ppm	0.4966 ppm	0.4776 ppm	0.4752 ppm
Concentration per Run 3	0.4774 ppm	0.4953 ppm	0.4761 ppm	10.4671 ppm	0.4907 ppm	0.4807 ppm	0.4750 ppm
Recovery Percentage 1	96.298 %	99.186 %	95.407 %	105.075 %	99.462 %	95.761 %	95.330 %
Concentration RSD	1.0 %	0.2 %	0.6 %	0.3 %	1.4 %	0.3 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4727 ppm	5.0486 ppm	0.5064 ppm	0.4871 ppm	0.4908 ppm	0.4758 ppm	0.4829 ppm
Concentration per Run 1	0.4762 ppm	5.1054 ppm	0.5122 ppm	0.4866 ppm	0.4971 ppm	0.4747 ppm	0.4885 ppm
Concentration per Run 2	0.4712 ppm	5.0370 ppm	0.5049 ppm	0.4880 ppm	0.4884 ppm	0.4760 ppm	0.4820 ppm
Concentration per Run 3	0.4707 ppm	5.0035 ppm	0.5020 ppm	0.4869 ppm	0.4869 ppm	0.4767 ppm	0.4781 ppm
Recovery Percentage 1	94.537 %	96.164 %	101.278 %	97.429 %	98.163 %	95.162 %	96.576 %
Concentration RSD	0.6 %	1.0 %	1.0 %	0.2 %	1.1 %	0.2 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4976 ppm	105.0992 %	103.8992 %	103.8513 %	99.6527 %	100.3880 %	101.6773 %
Concentration per Run 1	0.5052 ppm	104.1499 %	103.9757 %	103.8618 %	98.8627 %	100.4059 %	101.4596 %
Concentration per Run 2	0.4973 ppm	105.1943 %	103.4923 %	103.8592 %	99.6517 %	100.1390 %	101.9328 %
Concentration per Run 3	0.4905 ppm	105.9533 %	104.2297 %	103.8329 %	100.4438 %	100.6189 %	101.6395 %
Recovery Percentage 1	99.529 %						
Concentration RSD	1.5 %	0.9 %	0.4 %	0.0 %	0.8 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 4:46:04 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0055 ppm	-0.0008 ppm	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0112 ppm
Concentration per Run 1	-0.0006 ppm	-0.0069 ppm	-0.0001 ppm	-0.0003 ppm	-0.0005 ppm	0.0000 ppm	0.0103 ppm
Concentration per Run 2	-0.0006 ppm	0.0022 ppm	-0.0012 ppm	0.0003 ppm	-0.0006 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 3	-0.0005 ppm	-0.0118 ppm	-0.0012 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0137 ppm
Recovery Percentage 1	-7.905 %	-5.498 %	-27.223 %	-0.110 %	-5.430 %	0.630 %	11.198 %
Concentration RSD	7.4 %	129.2 %	80.3 %	985.8 %	16.1 %	58.9 %	19.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0056 ppm	-0.0618 ppm	-0.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0005 ppm	0.0059 ppm	-0.0584 ppm	-0.0037 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0059 ppm	-0.0571 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0049 ppm	-0.0699 ppm	-0.0036 ppm
Recovery Percentage 1	1.659 %	0.398 %	-1.918 %	5.399 %	11.136 %	-2.472 %	-23.977 %
Concentration RSD	67.0 %	213.3 %	148.0 %	34.7 %	10.4 %	11.4 %	89.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.1054 ppm	-0.0006 ppm	-0.0013 ppm	-0.0025 ppm
Concentration per Run 1	-0.0018 ppm	0.0001 ppm	0.0000 ppm	0.1063 ppm	-0.0009 ppm	0.0001 ppm	-0.0050 ppm
Concentration per Run 2	0.0013 ppm	0.0001 ppm	0.0004 ppm	0.1043 ppm	-0.0004 ppm	-0.0020 ppm	-0.0003 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.1055 ppm	-0.0005 ppm	-0.0019 ppm	-0.0022 ppm
Recovery Percentage 1	-0.059 %	0.475 %	0.499 %	5.268 %	-2.460 %	-13.012 %	-4.944 %
Concentration RSD	2,678.1 %	178.6 %	75.8 %	1.0 %	46.7 %	91.4 %	95.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0019 ppm	-0.0008 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 1	0.0007 ppm	0.0011 ppm	-0.0010 ppm	-0.0002 ppm	0.0008 ppm	0.0009 ppm	-0.0003 ppm
Concentration per Run 2	0.0008 ppm	0.0036 ppm	-0.0009 ppm	-0.0002 ppm	0.0006 ppm	0.0013 ppm	-0.0003 ppm
Concentration per Run 3	-0.0038 ppm	0.0010 ppm	-0.0004 ppm	-0.0002 ppm	0.0010 ppm	0.0003 ppm	-0.0006 ppm
Recovery Percentage 1	-7.680 %	0.379 %	-1.552 %	-1.975 %	8.031 %	4.128 %	-3.900 %
Concentration RSD	338.5 %	77.8 %	37.8 %	22.0 %	23.2 %	57.8 %	41.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	98.3717 %	99.5080 %	100.0364 %	99.9826 %	100.7564 %	102.8272 %
Concentration per Run 1	0.0013 ppm	95.9601 %	99.3900 %	99.3404 %	98.6521 %	100.4728 %	102.6188 %
Concentration per Run 2	0.0012 ppm	99.0604 %	99.7273 %	99.9484 %	100.4823 %	100.9976 %	102.6794 %
Concentration per Run 3	0.0009 ppm	100.0945 %	99.4066 %	100.8202 %	100.8133 %	100.7987 %	103.1833 %
Recovery Percentage 1	22.707 %						
Concentration RSD	21.9 %	2.2 %	0.2 %	0.7 %	1.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935869-1 WG1935869
Analysis started at: 6/19/2024 4:56:02 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	-0.0008 ppm	-0.0004 ppm	0.0022 ppm	-0.0002 ppm	0.0001 ppm	0.0389 ppm
Concentration per Run 1	-0.0007 ppm	-0.0103 ppm	-0.0004 ppm	0.0012 ppm	-0.0003 ppm	0.0000 ppm	0.0397 ppm
Concentration per Run 2	-0.0009 ppm	0.0037 ppm	0.0007 ppm	0.0024 ppm	-0.0003 ppm	0.0001 ppm	0.0377 ppm
Concentration per Run 3	-0.0009 ppm	0.0041 ppm	-0.0014 ppm	0.0028 ppm	-0.0002 ppm	0.0001 ppm	0.0392 ppm
Recovery Percentage 1	-12.218 %	-0.827 %	-12.671 %	7.186 %	-2.281 %	1.714 %	38.864 %
Concentration RSD	17.6 %	992.3 %	276.2 %	38.9 %	22.1 %	54.8 %	2.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0088 ppm	-0.0442 ppm	-0.0029 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0082 ppm	-0.0474 ppm	-0.0038 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0009 ppm	0.0090 ppm	-0.0487 ppm	-0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0093 ppm	-0.0365 ppm	-0.0019 ppm
Recovery Percentage 1	0.263 %	-1.174 %	2.390 %	4.434 %	17.645 %	-1.768 %	-28.760 %
Concentration RSD	103.9 %	98.8 %	103.5 %	85.0 %	6.1 %	15.2 %	33.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0076 ppm	0.0004 ppm	-0.0008 ppm	0.2790 ppm	-0.0006 ppm	-0.0007 ppm	0.0010 ppm
Concentration per Run 1	0.0085 ppm	0.0002 ppm	-0.0005 ppm	0.2848 ppm	-0.0009 ppm	-0.0013 ppm	0.0040 ppm
Concentration per Run 2	0.0068 ppm	0.0003 ppm	-0.0007 ppm	0.2747 ppm	-0.0004 ppm	0.0002 ppm	-0.0017 ppm
Concentration per Run 3	0.0074 ppm	0.0005 ppm	-0.0012 ppm	0.2776 ppm	-0.0005 ppm	-0.0010 ppm	0.0007 ppm
Recovery Percentage 1	7.564 %	3.557 %	-1.616 %	13.951 %	-2.509 %	-7.108 %	1.998 %
Concentration RSD	11.6 %	44.8 %	48.9 %	1.9 %	41.6 %	108.2 %	282.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	0.0239 ppm	-0.0009 ppm	-0.0001 ppm	0.0008 ppm	-0.0011 ppm	-0.0003 ppm
Concentration per Run 1	0.0016 ppm	0.0220 ppm	-0.0004 ppm	-0.0001 ppm	0.0006 ppm	-0.0021 ppm	-0.0004 ppm
Concentration per Run 2	0.0026 ppm	0.0229 ppm	-0.0009 ppm	0.0000 ppm	0.0007 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0010 ppm	0.0269 ppm	-0.0013 ppm	-0.0001 ppm	0.0010 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	17.420 %	4.787 %	-1.722 %	-0.867 %	7.779 %	-5.668 %	-2.902 %
Concentration RSD	45.3 %	11.0 %	50.5 %	74.1 %	24.3 %	92.2 %	47.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	102.0712 %	99.1047 %	98.9537 %	98.2478 %	97.9011 %	99.3958 %
Concentration per Run 1	0.0015 ppm	101.3177 %	98.4064 %	99.1320 %	97.5391 %	97.0809 %	99.3804 %
Concentration per Run 2	0.0015 ppm	102.3885 %	99.2390 %	99.0264 %	98.5301 %	98.3761 %	99.4453 %
Concentration per Run 3	0.0012 ppm	102.5074 %	99.6686 %	98.7025 %	98.6741 %	98.2462 %	99.3617 %
Recovery Percentage 1	27.664 %						
Concentration RSD	11.5 %	0.6 %	0.6 %	0.2 %	0.6 %	0.7 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935869-2 WG1935869
Analysis started at: 6/19/2024 5:00:07 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0452 ppm	1.8310 ppm	0.1167 ppm	0.8718 ppm	1.8506 ppm	0.0475 ppm	9.4077 ppm
Concentration per Run 1	0.0455 ppm	1.8355 ppm	0.1164 ppm	0.8804 ppm	1.8464 ppm	0.0475 ppm	9.4063 ppm
Concentration per Run 2	0.0453 ppm	1.8174 ppm	0.1182 ppm	0.8697 ppm	1.8548 ppm	0.0475 ppm	9.4063 ppm
Concentration per Run 3	0.0449 ppm	1.8400 ppm	0.1155 ppm	0.8654 ppm	1.8507 ppm	0.0476 ppm	9.4106 ppm
Concentration RSD	0.6 %	0.7 %	1.2 %	0.9 %	0.2 %	0.1 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0493 ppm	0.4547 ppm	0.1815 ppm	0.2302 ppm	0.9927 ppm	9.9565 ppm	-0.0031 ppm
Concentration per Run 1	0.0495 ppm	0.4578 ppm	0.1827 ppm	0.2318 ppm	0.9953 ppm	9.9554 ppm	-0.0042 ppm
Concentration per Run 2	0.0492 ppm	0.4541 ppm	0.1805 ppm	0.2300 ppm	0.9913 ppm	9.9769 ppm	-0.0038 ppm
Concentration per Run 3	0.0490 ppm	0.4521 ppm	0.1814 ppm	0.2288 ppm	0.9916 ppm	9.9374 ppm	-0.0014 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %	0.7 %	0.2 %	0.2 %	48.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.9115 ppm	0.4843 ppm	0.9157 ppm	10.1607 ppm	0.4636 ppm	0.5188 ppm	0.4604 ppm
Concentration per Run 1	8.9343 ppm	0.4843 ppm	0.9148 ppm	10.1510 ppm	0.4657 ppm	0.5209 ppm	0.4605 ppm
Concentration per Run 2	8.9088 ppm	0.4840 ppm	0.9153 ppm	10.1642 ppm	0.4600 ppm	0.5204 ppm	0.4645 ppm
Concentration per Run 3	8.8913 ppm	0.4845 ppm	0.9172 ppm	10.1670 ppm	0.4652 ppm	0.5152 ppm	0.4561 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.1 %	0.7 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1146 ppm	1.1344 ppm	0.9261 ppm	0.9035 ppm	0.9167 ppm	0.1172 ppm	0.4626 ppm
Concentration per Run 1	0.1146 ppm	1.1393 ppm	0.9292 ppm	0.9013 ppm	0.9194 ppm	0.1148 ppm	0.4648 ppm
Concentration per Run 2	0.1137 ppm	1.1361 ppm	0.9218 ppm	0.9061 ppm	0.9151 ppm	0.1195 ppm	0.4617 ppm
Concentration per Run 3	0.1155 ppm	1.1278 ppm	0.9272 ppm	0.9031 ppm	0.9156 ppm	0.1173 ppm	0.4613 ppm
Concentration RSD	0.8 %	0.5 %	0.4 %	0.3 %	0.3 %	2.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4630 ppm	103.8618 %	100.2597 %	99.4859 %	97.8002 %	96.9062 %	98.8679 %
Concentration per Run 1	0.4645 ppm	103.5314 %	100.4443 %	99.2141 %	97.5761 %	97.2349 %	98.3810 %
Concentration per Run 2	0.4603 ppm	104.2767 %	99.8950 %	99.3376 %	98.0092 %	96.4338 %	98.8649 %
Concentration per Run 3	0.4641 ppm	103.7774 %	100.4397 %	99.9061 %	97.8152 %	97.0500 %	99.3579 %
Concentration RSD	0.5 %	0.4 %	0.3 %	0.4 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433097-04 WG1935872
Analysis started at: 6/19/2024 5:04:05 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0018 ppm	-0.0003 ppm	0.0272 ppm	0.0623 ppm	0.0001 ppm	55.3471 ppm
Concentration per Run 1	-0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0270 ppm	0.0624 ppm	0.0000 ppm	55.4792 ppm
Concentration per Run 2	-0.0009 ppm	0.0053 ppm	0.0010 ppm	0.0285 ppm	0.0622 ppm	0.0000 ppm	55.1959 ppm
Concentration per Run 3	-0.0006 ppm	0.0002 ppm	-0.0021 ppm	0.0261 ppm	0.0622 ppm	0.0001 ppm	55.3663 ppm
Concentration RSD	40.0 %	175.2 %	485.8 %	4.4 %	0.2 %	48.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0076 ppm	0.5192 ppm	-0.0019 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0006 ppm	0.0092 ppm	0.5253 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0004 ppm	0.0008 ppm	0.0076 ppm	0.5117 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0061 ppm	0.5206 ppm	-0.0024 ppm
Concentration RSD	60.7 %	770.2 %	22.9 %	67.7 %	19.9 %	1.3 %	37.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.0854 ppm	0.4469 ppm	0.0015 ppm	145.5857 ppm	0.0001 ppm	0.0074 ppm	-0.0021 ppm
Concentration per Run 1	4.1115 ppm	0.4477 ppm	0.0013 ppm	145.8457 ppm	0.0001 ppm	0.0075 ppm	-0.0011 ppm
Concentration per Run 2	4.0827 ppm	0.4458 ppm	0.0017 ppm	145.2283 ppm	0.0000 ppm	0.0071 ppm	-0.0044 ppm
Concentration per Run 3	4.0619 ppm	0.4471 ppm	0.0015 ppm	145.6830 ppm	0.0001 ppm	0.0076 ppm	-0.0008 ppm
Concentration RSD	0.6 %	0.2 %	12.4 %	0.2 %	119.8 %	4.0 %	96.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.7036 ppm	0.0002 ppm	0.1087 ppm	0.0010 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0009 ppm	1.7144 ppm	0.0011 ppm	0.1087 ppm	0.0010 ppm	-0.0014 ppm	0.0004 ppm
Concentration per Run 2	-0.0006 ppm	1.7013 ppm	-0.0013 ppm	0.1083 ppm	0.0010 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0021 ppm	1.6952 ppm	0.0006 ppm	0.1092 ppm	0.0009 ppm	-0.0007 ppm	-0.0001 ppm
Concentration RSD	165.0 %	0.6 %	849.1 %	0.4 %	5.7 %	481.4 %	146.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	102.3078 %	99.7074 %	97.5829 %	95.7673 %	95.8296 %	96.4536 %
Concentration per Run 1	0.0024 ppm	101.4933 %	100.0078 %	97.8823 %	95.0944 %	96.1582 %	96.4388 %
Concentration per Run 2	0.0023 ppm	102.3854 %	99.8616 %	98.0199 %	96.0937 %	95.9307 %	96.8032 %
Concentration per Run 3	0.0021 ppm	103.0447 %	99.2530 %	96.8465 %	96.1139 %	95.3998 %	96.1189 %
Concentration RSD	7.0 %	0.8 %	0.4 %	0.7 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433097-05 WG1935872
Analysis started at: 6/19/2024 5:08:05 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0300 ppm	-0.0007 ppm	0.0181 ppm	0.0406 ppm	0.0001 ppm	40.6485 ppm
Concentration per Run 1	-0.0009 ppm	0.0282 ppm	-0.0007 ppm	0.0181 ppm	0.0403 ppm	0.0001 ppm	40.6969 ppm
Concentration per Run 2	-0.0004 ppm	0.0290 ppm	-0.0014 ppm	0.0173 ppm	0.0409 ppm	0.0000 ppm	40.8779 ppm
Concentration per Run 3	-0.0006 ppm	0.0328 ppm	0.0001 ppm	0.0189 ppm	0.0405 ppm	0.0000 ppm	40.3708 ppm
Concentration RSD	43.9 %	8.3 %	109.5 %	4.2 %	0.7 %	84.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0009 ppm	0.0061 ppm	0.2662 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0010 ppm	0.0068 ppm	0.2631 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0009 ppm	0.0056 ppm	0.2594 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0009 ppm	0.0058 ppm	0.2761 ppm	-0.0014 ppm
Concentration RSD	58.3 %	27.6 %	797.4 %	7.3 %	10.6 %	3.3 %	136.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.7618 ppm	0.4407 ppm	-0.0003 ppm	141.6445 ppm	0.0017 ppm	0.0250 ppm	-0.0011 ppm
Concentration per Run 1	1.7724 ppm	0.4418 ppm	-0.0001 ppm	141.6692 ppm	0.0019 ppm	0.0239 ppm	-0.0014 ppm
Concentration per Run 2	1.7553 ppm	0.4409 ppm	-0.0005 ppm	141.8761 ppm	0.0008 ppm	0.0257 ppm	-0.0039 ppm
Concentration per Run 3	1.7575 ppm	0.4393 ppm	-0.0004 ppm	141.3881 ppm	0.0022 ppm	0.0255 ppm	0.0019 ppm
Concentration RSD	0.5 %	0.3 %	62.4 %	0.2 %	45.4 %	3.9 %	255.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	3.3412 ppm	-0.0008 ppm	0.0937 ppm	0.0008 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 1	-0.0006 ppm	3.3584 ppm	-0.0004 ppm	0.0942 ppm	0.0007 ppm	-0.0023 ppm	-0.0003 ppm
Concentration per Run 2	-0.0006 ppm	3.3376 ppm	-0.0006 ppm	0.0940 ppm	0.0007 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.0015 ppm	3.3276 ppm	-0.0012 ppm	0.0930 ppm	0.0010 ppm	-0.0018 ppm	0.0001 ppm
Concentration RSD	1,137.5 %	0.5 %	53.3 %	0.7 %	18.7 %	21.4 %	199.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0040 ppm	102.5069 %	99.4542 %	97.0096 %	95.8042 %	95.7264 %	96.0372 %
Concentration per Run 1	0.0040 ppm	101.6802 %	99.8011 %	98.3402 %	95.1615 %	96.0462 %	97.3371 %
Concentration per Run 2	0.0039 ppm	103.3592 %	99.1284 %	95.8904 %	96.5238 %	95.5137 %	94.6794 %
Concentration per Run 3	0.0039 ppm	102.4815 %	99.4331 %	96.7981 %	95.7274 %	95.6194 %	96.0952 %
Concentration RSD	1.6 %	0.8 %	0.3 %	1.3 %	0.7 %	0.3 %	1.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433097-06 WG1935872
Analysis started at: 6/19/2024 5:12:04 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0633 ppm	0.0014 ppm	0.0338 ppm	0.0372 ppm	0.0001 ppm	38.5035 ppm
Concentration per Run 1	-0.0004 ppm	0.0605 ppm	0.0021 ppm	0.0334 ppm	0.0371 ppm	0.0000 ppm	38.4374 ppm
Concentration per Run 2	-0.0006 ppm	0.0692 ppm	0.0006 ppm	0.0343 ppm	0.0374 ppm	0.0001 ppm	38.6963 ppm
Concentration per Run 3	-0.0002 ppm	0.0601 ppm	0.0014 ppm	0.0338 ppm	0.0371 ppm	0.0001 ppm	38.3767 ppm
Concentration RSD	53.2 %	8.2 %	52.7 %	1.3 %	0.4 %	39.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0011 ppm	0.0114 ppm	0.3074 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0014 ppm	0.0117 ppm	0.3350 ppm	0.0029 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0007 ppm	0.0114 ppm	0.2937 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0012 ppm	0.0110 ppm	0.2936 ppm	0.0018 ppm
Concentration RSD	126.6 %	41.1 %	89.4 %	30.0 %	2.7 %	7.8 %	119.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.0974 ppm	0.5450 ppm	-0.0006 ppm	146.7599 ppm	-0.0002 ppm	0.0003 ppm	-0.0014 ppm
Concentration per Run 1	2.0976 ppm	0.5428 ppm	-0.0006 ppm	146.2716 ppm	-0.0006 ppm	0.0001 ppm	-0.0027 ppm
Concentration per Run 2	2.0941 ppm	0.5469 ppm	-0.0005 ppm	147.5004 ppm	-0.0002 ppm	-0.0014 ppm	-0.0007 ppm
Concentration per Run 3	2.1004 ppm	0.5453 ppm	-0.0005 ppm	146.5078 ppm	0.0002 ppm	0.0022 ppm	-0.0009 ppm
Concentration RSD	0.2 %	0.4 %	15.1 %	0.4 %	177.9 %	601.3 %	79.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	5.3462 ppm	-0.0005 ppm	0.0883 ppm	0.0015 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	0.0015 ppm	5.3692 ppm	-0.0003 ppm	0.0877 ppm	0.0015 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.0026 ppm	5.3470 ppm	0.0007 ppm	0.0888 ppm	0.0017 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	5.3223 ppm	-0.0019 ppm	0.0885 ppm	0.0015 ppm	-0.0006 ppm	0.0001 ppm
Concentration RSD	92.7 %	0.4 %	278.0 %	0.7 %	6.7 %	61.4 %	455.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0169 ppm	102.4127 %	99.7541 %	97.5757 %	95.5190 %	95.6419 %	96.3893 %
Concentration per Run 1	0.0168 ppm	102.3403 %	99.5468 %	97.9400 %	95.5215 %	95.7157 %	96.5778 %
Concentration per Run 2	0.0170 ppm	102.5761 %	99.3472 %	97.4700 %	95.5886 %	95.2387 %	96.1931 %
Concentration per Run 3	0.0169 ppm	102.3216 %	100.3682 %	97.3172 %	95.4469 %	95.9712 %	96.3971 %
Concentration RSD	0.4 %	0.1 %	0.5 %	0.3 %	0.1 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433097-07 WG1935869
Analysis started at: 6/19/2024 5:16:03 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0647 ppm	0.0004 ppm	0.0687 ppm	0.1033 ppm	0.0001 ppm	170.9436 ppm
Concentration per Run 1	-0.0011 ppm	0.0567 ppm	-0.0010 ppm	0.0697 ppm	0.1038 ppm	0.0001 ppm	170.6032 ppm
Concentration per Run 2	-0.0009 ppm	0.0694 ppm	0.0027 ppm	0.0676 ppm	0.1035 ppm	0.0001 ppm	171.1901 ppm
Concentration per Run 3	-0.0005 ppm	0.0680 ppm	-0.0006 ppm	0.0688 ppm	0.1025 ppm	0.0002 ppm	171.0374 ppm
Concentration RSD	37.4 %	10.7 %	567.0 %	1.6 %	0.7 %	21.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0004 ppm	0.0003 ppm	0.0007 ppm	0.0063 ppm	0.4118 ppm	0.0045 ppm
Concentration per Run 1	0.0008 ppm	0.0003 ppm	0.0004 ppm	0.0007 ppm	0.0067 ppm	0.4246 ppm	0.0061 ppm
Concentration per Run 2	0.0007 ppm	0.0006 ppm	0.0002 ppm	0.0006 ppm	0.0072 ppm	0.4330 ppm	0.0042 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm	0.0050 ppm	0.3780 ppm	0.0033 ppm
Concentration RSD	9.2 %	49.5 %	36.4 %	19.8 %	18.4 %	7.2 %	30.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.7103 ppm	2.1148 ppm	-0.0002 ppm	6.1812 ppm	0.0014 ppm	0.0214 ppm	0.0006 ppm
Concentration per Run 1	3.7377 ppm	2.1137 ppm	-0.0005 ppm	6.1637 ppm	0.0007 ppm	0.0215 ppm	0.0031 ppm
Concentration per Run 2	3.7035 ppm	2.1146 ppm	-0.0003 ppm	6.1819 ppm	0.0016 ppm	0.0222 ppm	-0.0012 ppm
Concentration per Run 3	3.6896 ppm	2.1160 ppm	0.0000 ppm	6.1980 ppm	0.0019 ppm	0.0203 ppm	-0.0001 ppm
Concentration RSD	0.7 %	0.1 %	100.9 %	0.3 %	43.1 %	4.4 %	374.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	9.0756 ppm	-0.0016 ppm	0.1958 ppm	0.0021 ppm	-0.0020 ppm	0.0009 ppm
Concentration per Run 1	-0.0006 ppm	9.1000 ppm	-0.0014 ppm	0.1955 ppm	0.0010 ppm	-0.0022 ppm	0.0011 ppm
Concentration per Run 2	0.0008 ppm	9.0772 ppm	-0.0010 ppm	0.1967 ppm	0.0043 ppm	-0.0018 ppm	0.0007 ppm
Concentration per Run 3	0.0008 ppm	9.0495 ppm	-0.0023 ppm	0.1951 ppm	0.0010 ppm	-0.0020 ppm	0.0007 ppm
Concentration RSD	218.3 %	0.3 %	41.0 %	0.4 %	91.0 %	9.8 %	25.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1109 ppm	102.3636 %	99.4750 %	96.9017 %	96.1875 %	96.1855 %	96.8825 %
Concentration per Run 1	0.1116 ppm	101.3756 %	99.9521 %	96.4041 %	95.2154 %	96.3563 %	96.6376 %
Concentration per Run 2	0.1108 ppm	102.7388 %	99.3132 %	97.1458 %	96.4449 %	96.2728 %	96.8340 %
Concentration per Run 3	0.1103 ppm	102.9763 %	99.1596 %	97.1552 %	96.9024 %	95.9272 %	97.1758 %
Concentration RSD	0.6 %	0.8 %	0.4 %	0.4 %	0.9 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433097-01 WG1935869
Analysis started at: 6/19/2024 5:20:01 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0172 ppm	-0.0012 ppm	0.0903 ppm	0.1377 ppm	0.0002 ppm	189.6451 ppm
Concentration per Run 1	-0.0006 ppm	0.0115 ppm	-0.0011 ppm	0.0901 ppm	0.1381 ppm	0.0001 ppm	188.9946 ppm
Concentration per Run 2	-0.0009 ppm	0.0237 ppm	-0.0016 ppm	0.0913 ppm	0.1374 ppm	0.0002 ppm	189.7661 ppm
Concentration per Run 3	-0.0005 ppm	0.0164 ppm	-0.0009 ppm	0.0893 ppm	0.1376 ppm	0.0002 ppm	190.1745 ppm
Concentration RSD	27.2 %	35.5 %	27.0 %	1.1 %	0.2 %	23.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0014 ppm	0.0125 ppm	0.3814 ppm	0.0109 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0016 ppm	0.0139 ppm	0.3623 ppm	0.0130 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0013 ppm	0.0123 ppm	0.3871 ppm	0.0095 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0114 ppm	0.3948 ppm	0.0102 ppm
Concentration RSD	287.5 %	108.9 %	55.6 %	14.1 %	10.0 %	4.5 %	16.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.8250 ppm	2.3282 ppm	-0.0005 ppm	5.3232 ppm	0.0009 ppm	0.0022 ppm	-0.0007 ppm
Concentration per Run 1	3.8327 ppm	2.3232 ppm	-0.0007 ppm	5.3073 ppm	0.0013 ppm	0.0008 ppm	-0.0018 ppm
Concentration per Run 2	3.8264 ppm	2.3273 ppm	-0.0005 ppm	5.3232 ppm	0.0005 ppm	0.0033 ppm	0.0000 ppm
Concentration per Run 3	3.8159 ppm	2.3340 ppm	-0.0004 ppm	5.3391 ppm	0.0009 ppm	0.0027 ppm	-0.0003 ppm
Concentration RSD	0.2 %	0.2 %	27.2 %	0.3 %	42.5 %	58.8 %	136.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	8.2826 ppm	-0.0009 ppm	0.2486 ppm	0.0009 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	8.3389 ppm	0.0002 ppm	0.2480 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0003 ppm	8.2850 ppm	-0.0015 ppm	0.2484 ppm	0.0011 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 3	0.0008 ppm	8.2238 ppm	-0.0012 ppm	0.2493 ppm	0.0010 ppm	0.0007 ppm	0.0001 ppm
Concentration RSD	154.6 %	0.7 %	103.7 %	0.3 %	20.3 %	819.8 %	180.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0079 ppm	102.8615 %	99.8483 %	96.8430 %	96.8409 %	96.7018 %	96.7667 %
Concentration per Run 1	0.0078 ppm	102.6950 %	100.0712 %	97.2413 %	96.6510 %	96.7751 %	96.8537 %
Concentration per Run 2	0.0082 ppm	102.8671 %	99.7548 %	96.8610 %	96.8872 %	96.7183 %	96.8280 %
Concentration per Run 3	0.0077 ppm	103.0225 %	99.7189 %	96.4269 %	96.9845 %	96.6120 %	96.6183 %
Concentration RSD	3.2 %	0.2 %	0.2 %	0.4 %	0.2 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935869-3 WG1935869
Analysis started at: 6/19/2024 5:24:00 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0465 ppm	1.8809 ppm	0.1234 ppm	0.9678 ppm	2.0001 ppm	0.0487 ppm	194.1636 ppm
Concentration per Run 1	0.0470 ppm	1.8882 ppm	0.1226 ppm	0.9743 ppm	2.0033 ppm	0.0488 ppm	194.1248 ppm
Concentration per Run 2	0.0465 ppm	1.8770 ppm	0.1228 ppm	0.9633 ppm	2.0102 ppm	0.0488 ppm	194.3631 ppm
Concentration per Run 3	0.0459 ppm	1.8775 ppm	0.1250 ppm	0.9657 ppm	1.9867 ppm	0.0486 ppm	194.0029 ppm
Concentration RSD	1.2 %	0.3 %	1.1 %	0.6 %	0.6 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0487 ppm	0.4479 ppm	0.1820 ppm	0.2365 ppm	1.0005 ppm	10.6578 ppm	0.0116 ppm
Concentration per Run 1	0.0487 ppm	0.4508 ppm	0.1825 ppm	0.2386 ppm	1.0000 ppm	10.6983 ppm	0.0132 ppm
Concentration per Run 2	0.0488 ppm	0.4482 ppm	0.1824 ppm	0.2368 ppm	1.0002 ppm	10.6609 ppm	0.0118 ppm
Concentration per Run 3	0.0485 ppm	0.4448 ppm	0.1812 ppm	0.2342 ppm	1.0013 ppm	10.6142 ppm	0.0098 ppm
Concentration RSD	0.2 %	0.7 %	0.4 %	0.9 %	0.1 %	0.4 %	14.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.4432 ppm	2.7591 ppm	0.9171 ppm	15.3186 ppm	0.4544 ppm	0.5194 ppm	0.4686 ppm
Concentration per Run 1	12.4913 ppm	2.7593 ppm	0.9119 ppm	15.2848 ppm	0.4558 ppm	0.5168 ppm	0.4667 ppm
Concentration per Run 2	12.4523 ppm	2.7655 ppm	0.9193 ppm	15.3894 ppm	0.4567 ppm	0.5206 ppm	0.4697 ppm
Concentration per Run 3	12.3859 ppm	2.7526 ppm	0.9201 ppm	15.2815 ppm	0.4508 ppm	0.5208 ppm	0.4695 ppm
Concentration RSD	0.4 %	0.2 %	0.5 %	0.4 %	0.7 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1151 ppm	9.4517 ppm	0.9146 ppm	1.1410 ppm	0.9220 ppm	0.1165 ppm	0.4728 ppm
Concentration per Run 1	0.1162 ppm	9.4919 ppm	0.9139 ppm	1.1410 ppm	0.9261 ppm	0.1147 ppm	0.4744 ppm
Concentration per Run 2	0.1138 ppm	9.4814 ppm	0.9181 ppm	1.1430 ppm	0.9237 ppm	0.1156 ppm	0.4709 ppm
Concentration per Run 3	0.1153 ppm	9.3817 ppm	0.9119 ppm	1.1389 ppm	0.9163 ppm	0.1191 ppm	0.4729 ppm
Concentration RSD	1.0 %	0.6 %	0.4 %	0.2 %	0.6 %	2.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4633 ppm	102.1624 %	100.3217 %	94.8119 %	95.9677 %	96.9280 %	95.9147 %
Concentration per Run 1	0.4665 ppm	101.7903 %	100.3805 %	95.0109 %	95.6267 %	96.9422 %	95.8147 %
Concentration per Run 2	0.4636 ppm	102.0382 %	100.0329 %	94.9588 %	95.7941 %	96.8229 %	96.3946 %
Concentration per Run 3	0.4596 ppm	102.6589 %	100.5517 %	94.4662 %	96.4821 %	97.0191 %	95.5346 %
Concentration RSD	0.7 %	0.4 %	0.3 %	0.3 %	0.5 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935869-4 WG1935869
Analysis started at: 6/19/2024 5:27:58 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0207 ppm	0.0000 ppm	0.0891 ppm	0.1358 ppm	0.0002 ppm	187.5953 ppm
Concentration per Run 1	-0.0002 ppm	0.0145 ppm	0.0015 ppm	0.0895 ppm	0.1361 ppm	0.0002 ppm	187.2757 ppm
Concentration per Run 2	-0.0011 ppm	0.0251 ppm	0.0006 ppm	0.0902 ppm	0.1355 ppm	0.0002 ppm	187.8174 ppm
Concentration per Run 3	-0.0007 ppm	0.0224 ppm	-0.0021 ppm	0.0876 ppm	0.1358 ppm	0.0002 ppm	187.6929 ppm
Concentration RSD	64.9 %	26.7 %	31,289.0 %	1.5 %	0.2 %	10.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0009 ppm	0.0143 ppm	0.3625 ppm	0.0108 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0003 ppm	0.0011 ppm	0.0137 ppm	0.3625 ppm	0.0135 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0159 ppm	0.3788 ppm	0.0081 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0134 ppm	0.3461 ppm	0.0109 ppm
Concentration RSD	271.8 %	147.8 %	135.8 %	23.9 %	9.6 %	4.5 %	25.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.7912 ppm	2.3022 ppm	0.0008 ppm	5.2579 ppm	0.0010 ppm	0.0015 ppm	-0.0023 ppm
Concentration per Run 1	3.8121 ppm	2.2977 ppm	0.0011 ppm	5.2479 ppm	0.0016 ppm	0.0013 ppm	-0.0050 ppm
Concentration per Run 2	3.7811 ppm	2.3021 ppm	0.0007 ppm	5.2644 ppm	0.0009 ppm	0.0018 ppm	-0.0012 ppm
Concentration per Run 3	3.7804 ppm	2.3068 ppm	0.0006 ppm	5.2613 ppm	0.0005 ppm	0.0014 ppm	-0.0008 ppm
Concentration RSD	0.5 %	0.2 %	28.8 %	0.2 %	54.0 %	17.2 %	99.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	8.1720 ppm	-0.0008 ppm	0.2455 ppm	0.0009 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 1	-0.0024 ppm	8.2049 ppm	-0.0014 ppm	0.2458 ppm	0.0011 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 2	-0.0005 ppm	8.1862 ppm	0.0007 ppm	0.2451 ppm	0.0009 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 3	0.0012 ppm	8.1249 ppm	-0.0016 ppm	0.2456 ppm	0.0006 ppm	-0.0017 ppm	0.0000 ppm
Concentration RSD	318.9 %	0.5 %	169.0 %	0.1 %	30.1 %	148.2 %	157.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0082 ppm	102.8760 %	100.7073 %	97.1130 %	96.9212 %	97.5752 %	97.2127 %
Concentration per Run 1	0.0083 ppm	102.2725 %	100.7131 %	97.3145 %	96.3080 %	97.4907 %	96.9545 %
Concentration per Run 2	0.0081 ppm	103.3250 %	100.8415 %	97.2246 %	97.3977 %	97.6958 %	97.2359 %
Concentration per Run 3	0.0082 ppm	103.0305 %	100.5674 %	96.8000 %	97.0578 %	97.5391 %	97.4477 %
Concentration RSD	1.3 %	0.5 %	0.1 %	0.3 %	0.6 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 5:31:56 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4869 ppm	0.4683 ppm	0.4708 ppm	0.4785 ppm	0.4821 ppm	0.4989 ppm	0.5005 ppm
Concentration per Run 1	0.4921 ppm	0.4697 ppm	0.4717 ppm	0.4824 ppm	0.4793 ppm	0.4973 ppm	0.4949 ppm
Concentration per Run 2	0.4856 ppm	0.4692 ppm	0.4721 ppm	0.4769 ppm	0.4844 ppm	0.5004 ppm	0.5071 ppm
Concentration per Run 3	0.4831 ppm	0.4661 ppm	0.4686 ppm	0.4763 ppm	0.4827 ppm	0.4990 ppm	0.4995 ppm
Recovery Percentage 1	97.387 %	93.660 %	94.161 %	95.703 %	96.425 %	99.780 %	100.101 %
Concentration RSD	1.0 %	0.4 %	0.4 %	0.7 %	0.5 %	0.3 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4901 ppm	0.4954 ppm	0.4809 ppm	0.4744 ppm	0.5138 ppm	5.3236 ppm	0.4906 ppm
Concentration per Run 1	0.4973 ppm	0.5027 ppm	0.4870 ppm	0.4811 ppm	0.5137 ppm	5.3069 ppm	0.4832 ppm
Concentration per Run 2	0.4893 ppm	0.4943 ppm	0.4791 ppm	0.4740 ppm	0.5142 ppm	5.3251 ppm	0.4960 ppm
Concentration per Run 3	0.4836 ppm	0.4893 ppm	0.4767 ppm	0.4679 ppm	0.5135 ppm	5.3389 ppm	0.4926 ppm
Recovery Percentage 1	98.010 %	99.088 %	96.186 %	94.871 %	102.753 %	106.472 %	98.122 %
Concentration RSD	1.4 %	1.4 %	1.1 %	1.4 %	0.1 %	0.3 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4804 ppm	0.4960 ppm	0.4778 ppm	10.5105 ppm	0.4991 ppm	0.4787 ppm	0.4742 ppm
Concentration per Run 1	0.4858 ppm	0.4955 ppm	0.4812 ppm	10.5232 ppm	0.5044 ppm	0.4813 ppm	0.4800 ppm
Concentration per Run 2	0.4782 ppm	0.4969 ppm	0.4767 ppm	10.5011 ppm	0.4975 ppm	0.4788 ppm	0.4746 ppm
Concentration per Run 3	0.4771 ppm	0.4954 ppm	0.4756 ppm	10.5070 ppm	0.4953 ppm	0.4760 ppm	0.4682 ppm
Recovery Percentage 1	96.072 %	99.191 %	95.562 %	105.105 %	99.813 %	95.735 %	94.848 %
Concentration RSD	1.0 %	0.2 %	0.6 %	0.1 %	1.0 %	0.6 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4737 ppm	5.0342 ppm	0.5058 ppm	0.4879 ppm	0.4914 ppm	0.4749 ppm	0.4820 ppm
Concentration per Run 1	0.4695 ppm	5.1002 ppm	0.5080 ppm	0.4880 ppm	0.4965 ppm	0.4759 ppm	0.4871 ppm
Concentration per Run 2	0.4765 ppm	5.0133 ppm	0.5067 ppm	0.4890 ppm	0.4901 ppm	0.4741 ppm	0.4815 ppm
Concentration per Run 3	0.4752 ppm	4.9891 ppm	0.5027 ppm	0.4867 ppm	0.4877 ppm	0.4747 ppm	0.4773 ppm
Recovery Percentage 1	94.745 %	95.890 %	101.161 %	97.584 %	98.290 %	94.981 %	96.396 %
Concentration RSD	0.8 %	1.2 %	0.5 %	0.2 %	0.9 %	0.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4997 ppm	105.2329 %	104.0857 %	103.6785 %	99.8080 %	100.5415 %	101.5995 %
Concentration per Run 1	0.5059 ppm	104.0323 %	103.5901 %	103.6802 %	98.6654 %	100.1134 %	101.5997 %
Concentration per Run 2	0.4982 ppm	105.5475 %	104.0657 %	103.6830 %	100.2162 %	100.4427 %	101.6719 %
Concentration per Run 3	0.4951 ppm	106.1188 %	104.6013 %	103.6723 %	100.5425 %	101.0684 %	101.5269 %
Recovery Percentage 1	99.949 %						
Concentration RSD	1.1 %	1.0 %	0.5 %	0.0 %	1.0 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 5:35:55 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	-0.0037 ppm	0.0005 ppm	0.0007 ppm	-0.0003 ppm	0.0000 ppm	0.0119 ppm
Concentration per Run 1	-0.0009 ppm	-0.0137 ppm	0.0007 ppm	-0.0005 ppm	-0.0005 ppm	0.0000 ppm	0.0079 ppm
Concentration per Run 2	-0.0012 ppm	0.0057 ppm	-0.0005 ppm	0.0021 ppm	-0.0004 ppm	0.0000 ppm	0.0131 ppm
Concentration per Run 3	-0.0006 ppm	-0.0031 ppm	0.0011 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0147 ppm
Recovery Percentage 1	-12.746 %	-3.696 %	15.198 %	2.332 %	-3.399 %	0.938 %	11.903 %
Concentration RSD	35.9 %	262.5 %	177.9 %	188.5 %	59.0 %	134.2 %	30.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0068 ppm	-0.0457 ppm	-0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0008 ppm	0.0083 ppm	-0.0617 ppm	-0.0023 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0079 ppm	-0.0217 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0044 ppm	-0.0536 ppm	-0.0035 ppm
Recovery Percentage 1	1.404 %	0.249 %	-0.995 %	5.820 %	13.698 %	-1.827 %	-23.413 %
Concentration RSD	31.4 %	562.7 %	185.7 %	33.6 %	31.5 %	46.4 %	48.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0015 ppm	0.0001 ppm	0.0003 ppm	0.0779 ppm	0.0000 ppm	-0.0014 ppm	0.0007 ppm
Concentration per Run 1	0.0025 ppm	0.0001 ppm	0.0005 ppm	0.0756 ppm	0.0002 ppm	-0.0008 ppm	0.0011 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0003 ppm	0.0830 ppm	0.0000 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 3	0.0009 ppm	0.0002 ppm	0.0002 ppm	0.0751 ppm	-0.0004 ppm	-0.0018 ppm	0.0008 ppm
Recovery Percentage 1	1.515 %	1.153 %	0.677 %	3.895 %	-0.149 %	-14.396 %	1.416 %
Concentration RSD	58.1 %	49.4 %	35.2 %	5.7 %	829.2 %	36.8 %	63.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	-0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0005 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 1	0.0010 ppm	-0.0011 ppm	-0.0009 ppm	-0.0001 ppm	0.0007 ppm	0.0016 ppm	-0.0002 ppm
Concentration per Run 2	-0.0024 ppm	0.0008 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 3	-0.0020 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	-0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-11.592 %	-0.017 %	-0.930 %	-1.898 %	5.412 %	5.622 %	-2.826 %
Concentration RSD	160.4 %	1,165.7 %	82.5 %	42.0 %	32.7 %	117.5 %	20.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	98.0905 %	98.8280 %	99.5869 %	99.8238 %	100.1103 %	102.3762 %
Concentration per Run 1	0.0013 ppm	96.0622 %	98.8601 %	99.0785 %	98.5331 %	100.1245 %	102.7557 %
Concentration per Run 2	0.0009 ppm	98.6254 %	98.8880 %	99.8685 %	100.3144 %	100.3890 %	102.3418 %
Concentration per Run 3	0.0011 ppm	99.5840 %	98.7359 %	99.8136 %	100.6239 %	99.8174 %	102.0310 %
Recovery Percentage 1	22.203 %						
Concentration RSD	15.2 %	1.9 %	0.1 %	0.4 %	1.1 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936001-1 WG1936001
Analysis started at: 6/19/2024 5:46:30 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0020 ppm	0.0014 ppm	0.0002 ppm	-0.0005 ppm	0.0001 ppm	0.0096 ppm
Concentration per Run 1	-0.0003 ppm	0.0034 ppm	0.0004 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0122 ppm
Concentration per Run 2	-0.0005 ppm	0.0071 ppm	0.0036 ppm	0.0016 ppm	-0.0005 ppm	0.0001 ppm	0.0088 ppm
Concentration per Run 3	-0.0005 ppm	-0.0044 ppm	0.0001 ppm	-0.0008 ppm	-0.0006 ppm	0.0000 ppm	0.0078 ppm
Recovery Percentage 1	-6.531 %	2.045 %	46.318 %	0.739 %	-4.922 %	1.775 %	9.627 %
Concentration RSD	22.4 %	288.3 %	140.9 %	566.2 %	26.7 %	57.9 %	24.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0016 ppm	-0.0703 ppm	-0.0044 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0013 ppm	-0.0579 ppm	-0.0042 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	-0.0687 ppm	-0.0061 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0008 ppm	0.0018 ppm	-0.0844 ppm	-0.0030 ppm
Recovery Percentage 1	0.057 %	-0.401 %	-0.258 %	7.721 %	3.161 %	-2.814 %	-44.204 %
Concentration RSD	732.5 %	279.6 %	1,254.7 %	35.3 %	17.6 %	18.9 %	35.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0019 ppm	0.0003 ppm	-0.0006 ppm	0.0643 ppm	-0.0006 ppm	-0.0007 ppm	-0.0009 ppm
Concentration per Run 1	0.0018 ppm	0.0005 ppm	-0.0007 ppm	0.0650 ppm	-0.0007 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0017 ppm	0.0000 ppm	-0.0004 ppm	0.0675 ppm	-0.0007 ppm	-0.0006 ppm	-0.0011 ppm
Concentration per Run 3	0.0021 ppm	0.0003 ppm	-0.0006 ppm	0.0604 ppm	-0.0002 ppm	-0.0010 ppm	-0.0019 ppm
Recovery Percentage 1	1.872 %	2.576 %	-1.161 %	3.216 %	-2.225 %	-7.265 %	-1.863 %
Concentration RSD	10.3 %	98.5 %	30.5 %	5.6 %	56.0 %	28.0 %	119.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0016 ppm	-0.0009 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 1	-0.0011 ppm	0.0005 ppm	-0.0004 ppm	-0.0001 ppm	0.0009 ppm	0.0023 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	0.0038 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 3	-0.0023 ppm	0.0003 ppm	-0.0023 ppm	0.0000 ppm	0.0005 ppm	0.0009 ppm	-0.0005 ppm
Recovery Percentage 1	-12.750 %	0.312 %	-1.802 %	-1.156 %	5.338 %	3.907 %	-4.035 %
Concentration RSD	75.4 %	127.3 %	133.0 %	66.6 %	75.9 %	195.5 %	94.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	98.7898 %	100.3627 %	102.6876 %	102.6829 %	102.3030 %	106.8949 %
Concentration per Run 1	0.0005 ppm	97.3442 %	100.3957 %	103.3052 %	102.4854 %	103.0542 %	108.3429 %
Concentration per Run 2	0.0005 ppm	99.2410 %	99.6144 %	102.2813 %	102.7624 %	101.6206 %	106.6659 %
Concentration per Run 3	0.0004 ppm	99.7841 %	101.0779 %	102.4762 %	102.8009 %	102.2340 %	105.6760 %
Recovery Percentage 1	9.186 %						
Concentration RSD	20.0 %	1.3 %	0.7 %	0.5 %	0.2 %	0.7 %	1.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936001-2 WG1936001
Analysis started at: 6/19/2024 5:50:35 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	1.9003 ppm	0.1184 ppm	0.9901 ppm	1.9130 ppm	0.0498 ppm	9.9645 ppm
Concentration per Run 1	0.0510 ppm	1.9081 ppm	0.1182 ppm	1.0101 ppm	1.9223 ppm	0.0498 ppm	9.9855 ppm
Concentration per Run 2	0.0496 ppm	1.9066 ppm	0.1166 ppm	0.9849 ppm	1.9091 ppm	0.0498 ppm	9.9759 ppm
Concentration per Run 3	0.0496 ppm	1.8861 ppm	0.1204 ppm	0.9752 ppm	1.9076 ppm	0.0497 ppm	9.9323 ppm
Concentration RSD	1.6 %	0.6 %	1.6 %	1.8 %	0.4 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0544 ppm	0.5012 ppm	0.1976 ppm	0.2490 ppm	1.0139 ppm	10.7064 ppm	-0.0030 ppm
Concentration per Run 1	0.0556 ppm	0.5120 ppm	0.2012 ppm	0.2532 ppm	1.0208 ppm	10.7721 ppm	-0.0018 ppm
Concentration per Run 2	0.0539 ppm	0.4974 ppm	0.1968 ppm	0.2482 ppm	1.0130 ppm	10.6759 ppm	-0.0037 ppm
Concentration per Run 3	0.0537 ppm	0.4943 ppm	0.1949 ppm	0.2455 ppm	1.0079 ppm	10.6711 ppm	-0.0035 ppm
Concentration RSD	2.0 %	1.9 %	1.6 %	1.6 %	0.6 %	0.5 %	35.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0351 ppm	0.5015 ppm	0.9488 ppm	10.8538 ppm	0.5084 ppm	0.5276 ppm	0.4374 ppm
Concentration per Run 1	10.2377 ppm	0.5028 ppm	0.9561 ppm	10.8809 ppm	0.5200 ppm	0.5331 ppm	0.4370 ppm
Concentration per Run 2	9.9568 ppm	0.5023 ppm	0.9454 ppm	10.8670 ppm	0.5051 ppm	0.5250 ppm	0.4400 ppm
Concentration per Run 3	9.9108 ppm	0.4994 ppm	0.9447 ppm	10.8136 ppm	0.5001 ppm	0.5245 ppm	0.4350 ppm
Concentration RSD	1.8 %	0.4 %	0.7 %	0.3 %	2.0 %	0.9 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1135 ppm	1.0672 ppm	0.9980 ppm	0.9558 ppm	1.0204 ppm	0.1193 ppm	0.5037 ppm
Concentration per Run 1	0.1127 ppm	1.0857 ppm	1.0158 ppm	0.9601 ppm	1.0418 ppm	0.1209 ppm	0.5137 ppm
Concentration per Run 2	0.1143 ppm	1.0620 ppm	0.9970 ppm	0.9542 ppm	1.0084 ppm	0.1185 ppm	0.5012 ppm
Concentration per Run 3	0.1135 ppm	1.0538 ppm	0.9811 ppm	0.9531 ppm	1.0111 ppm	0.1184 ppm	0.4963 ppm
Concentration RSD	0.7 %	1.6 %	1.7 %	0.4 %	1.8 %	1.2 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5174 ppm	100.7221 %	102.1540 %	100.2672 %	100.6862 %	100.6387 %	102.0791 %
Concentration per Run 1	0.5296 ppm	98.4396 %	100.9932 %	99.7777 %	99.3344 %	99.4900 %	102.1989 %
Concentration per Run 2	0.5150 ppm	101.4202 %	102.2445 %	100.0670 %	101.5237 %	100.8569 %	101.6949 %
Concentration per Run 3	0.5075 ppm	102.3065 %	103.2243 %	100.9568 %	101.2005 %	101.5691 %	102.3435 %
Concentration RSD	2.2 %	2.0 %	1.1 %	0.6 %	1.2 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432988-01 WG1936001
Analysis started at: 6/19/2024 5:54:35 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0175 ppm	0.0345 ppm	2.0557 ppm	0.4680 ppm	0.0000 ppm	226.0011 ppm
Concentration per Run 1	-0.0007 ppm	0.0290 ppm	0.0332 ppm	2.1039 ppm	0.4669 ppm	0.0000 ppm	226.6561 ppm
Concentration per Run 2	-0.0004 ppm	0.0041 ppm	0.0336 ppm	2.0510 ppm	0.4676 ppm	0.0001 ppm	225.6066 ppm
Concentration per Run 3	-0.0006 ppm	0.0193 ppm	0.0368 ppm	2.0121 ppm	0.4696 ppm	0.0000 ppm	225.7407 ppm
Concentration RSD	26.5 %	71.6 %	5.7 %	2.2 %	0.3 %	68.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0061 ppm	0.0044 ppm	0.0020 ppm	0.3646 ppm	49.2976 ppm	0.0485 ppm
Concentration per Run 1	0.0001 ppm	0.0064 ppm	0.0045 ppm	0.0019 ppm	0.3596 ppm	49.4683 ppm	0.0508 ppm
Concentration per Run 2	0.0001 ppm	0.0055 ppm	0.0044 ppm	0.0022 ppm	0.3672 ppm	49.1124 ppm	0.0480 ppm
Concentration per Run 3	0.0000 ppm	0.0065 ppm	0.0042 ppm	0.0019 ppm	0.3672 ppm	49.3119 ppm	0.0468 ppm
Concentration RSD	129.4 %	9.0 %	3.5 %	9.0 %	1.2 %	0.4 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.6433 ppm	1.4833 ppm	0.0039 ppm	353.2743 ppm	0.0054 ppm	-0.0007 ppm	0.0013 ppm
Concentration per Run 1	67.3921 ppm	1.4855 ppm	0.0038 ppm	353.7737 ppm	0.0052 ppm	-0.0012 ppm	0.0006 ppm
Concentration per Run 2	65.2246 ppm	1.4786 ppm	0.0035 ppm	352.9956 ppm	0.0050 ppm	-0.0012 ppm	0.0003 ppm
Concentration per Run 3	64.3133 ppm	1.4860 ppm	0.0043 ppm	353.0535 ppm	0.0061 ppm	0.0004 ppm	0.0029 ppm
Concentration RSD	2.4 %	0.3 %	10.3 %	0.1 %	10.2 %	140.8 %	109.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	15.5586 ppm	0.0024 ppm	2.0019 ppm	0.0023 ppm	0.0007 ppm	0.0013 ppm
Concentration per Run 1	-0.0019 ppm	15.8793 ppm	0.0019 ppm	2.0128 ppm	0.0025 ppm	0.0013 ppm	0.0015 ppm
Concentration per Run 2	-0.0013 ppm	15.5060 ppm	0.0031 ppm	1.9933 ppm	0.0021 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 3	-0.0020 ppm	15.2905 ppm	0.0022 ppm	1.9996 ppm	0.0023 ppm	0.0001 ppm	0.0013 ppm
Concentration RSD	20.0 %	1.9 %	25.5 %	0.5 %	8.4 %	81.7 %	14.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0049 ppm	93.6886 %	98.7029 %	90.3406 %	94.7401 %	98.7198 %	95.9026 %
Concentration per Run 1	0.0053 ppm	91.7973 %	98.7877 %	90.2099 %	93.9930 %	99.0707 %	95.9777 %
Concentration per Run 2	0.0047 ppm	94.1840 %	98.2203 %	90.1520 %	95.1593 %	98.0212 %	95.5981 %
Concentration per Run 3	0.0047 ppm	95.0846 %	99.1008 %	90.6597 %	95.0680 %	99.0675 %	96.1319 %
Concentration RSD	7.3 %	1.8 %	0.5 %	0.3 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936001-3 WG1936001
Analysis started at: 6/19/2024 5:58:33 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0520 ppm	1.9220 ppm	0.1647 ppm	3.0264 ppm	2.3732 ppm	0.0500 ppm	232.9637 ppm
Concentration per Run 1	0.0536 ppm	1.9322 ppm	0.1653 ppm	3.1044 ppm	2.3685 ppm	0.0501 ppm	233.3232 ppm
Concentration per Run 2	0.0515 ppm	1.9171 ppm	0.1649 ppm	2.9862 ppm	2.3661 ppm	0.0502 ppm	233.3958 ppm
Concentration per Run 3	0.0509 ppm	1.9168 ppm	0.1638 ppm	2.9885 ppm	2.3850 ppm	0.0497 ppm	232.1721 ppm
Concentration RSD	2.7 %	0.5 %	0.5 %	2.2 %	0.4 %	0.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0514 ppm	0.4838 ppm	0.1972 ppm	0.2568 ppm	1.3585 ppm	59.6167 ppm	0.0461 ppm
Concentration per Run 1	0.0528 ppm	0.4964 ppm	0.2021 ppm	0.2639 ppm	1.3609 ppm	59.3758 ppm	0.0495 ppm
Concentration per Run 2	0.0508 ppm	0.4784 ppm	0.1948 ppm	0.2530 ppm	1.3544 ppm	59.5969 ppm	0.0440 ppm
Concentration per Run 3	0.0506 ppm	0.4765 ppm	0.1947 ppm	0.2536 ppm	1.3602 ppm	59.8773 ppm	0.0447 ppm
Concentration RSD	2.3 %	2.3 %	2.2 %	2.4 %	0.3 %	0.4 %	6.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	74.3362 ppm	1.9618 ppm	0.9025 ppm	357.5921 ppm	0.4880 ppm	0.5231 ppm	0.5284 ppm
Concentration per Run 1	76.4401 ppm	1.9654 ppm	0.9140 ppm	358.4588 ppm	0.5024 ppm	0.5259 ppm	0.5407 ppm
Concentration per Run 2	73.4136 ppm	1.9631 ppm	0.8885 ppm	358.2961 ppm	0.4822 ppm	0.5215 ppm	0.5258 ppm
Concentration per Run 3	73.1550 ppm	1.9570 ppm	0.9050 ppm	356.0213 ppm	0.4795 ppm	0.5220 ppm	0.5185 ppm
Concentration RSD	2.5 %	0.2 %	1.4 %	0.4 %	2.6 %	0.5 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1164 ppm	16.5241 ppm	0.9455 ppm	2.9297 ppm	1.0260 ppm	0.1197 ppm	0.5087 ppm
Concentration per Run 1	0.1167 ppm	17.0075 ppm	0.9672 ppm	2.9332 ppm	1.0532 ppm	0.1219 ppm	0.5214 ppm
Concentration per Run 2	0.1156 ppm	16.3007 ppm	0.9324 ppm	2.9329 ppm	1.0150 ppm	0.1197 ppm	0.5036 ppm
Concentration per Run 3	0.1168 ppm	16.2642 ppm	0.9368 ppm	2.9230 ppm	1.0100 ppm	0.1175 ppm	0.5011 ppm
Concentration RSD	0.6 %	2.5 %	2.0 %	0.2 %	2.3 %	1.9 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4964 ppm	94.6570 %	99.0901 %	89.5118 %	94.1979 %	97.8228 %	95.0088 %
Concentration per Run 1	0.5098 ppm	92.2506 %	98.7503 %	89.1492 %	92.8314 %	97.8726 %	95.2340 %
Concentration per Run 2	0.4905 ppm	95.7195 %	99.1943 %	89.8391 %	94.9798 %	98.1913 %	95.1490 %
Concentration per Run 3	0.4891 ppm	96.0008 %	99.3257 %	89.5471 %	94.7824 %	97.4044 %	94.6435 %
Concentration RSD	2.3 %	2.2 %	0.3 %	0.4 %	1.3 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936001-4 WG1936001
Analysis started at: 6/19/2024 6:02:33 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0153 ppm	0.0336 ppm	2.0726 ppm	0.4745 ppm	0.0001 ppm	226.6784 ppm
Concentration per Run 1	-0.0010 ppm	0.0159 ppm	0.0361 ppm	2.1250 ppm	0.4763 ppm	0.0001 ppm	227.6273 ppm
Concentration per Run 2	-0.0009 ppm	0.0204 ppm	0.0327 ppm	2.0717 ppm	0.4713 ppm	0.0000 ppm	226.2392 ppm
Concentration per Run 3	-0.0008 ppm	0.0096 ppm	0.0319 ppm	2.0211 ppm	0.4758 ppm	0.0001 ppm	226.1688 ppm
Concentration RSD	13.5 %	35.6 %	6.7 %	2.5 %	0.6 %	37.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0064 ppm	0.0047 ppm	0.0018 ppm	0.3639 ppm	49.8556 ppm	0.0477 ppm
Concentration per Run 1	0.0000 ppm	0.0069 ppm	0.0050 ppm	0.0019 ppm	0.3659 ppm	49.9955 ppm	0.0501 ppm
Concentration per Run 2	0.0001 ppm	0.0065 ppm	0.0045 ppm	0.0019 ppm	0.3622 ppm	49.6964 ppm	0.0463 ppm
Concentration per Run 3	0.0001 ppm	0.0058 ppm	0.0044 ppm	0.0017 ppm	0.3635 ppm	49.8749 ppm	0.0467 ppm
Concentration RSD	26.4 %	8.4 %	6.7 %	8.2 %	0.5 %	0.3 %	4.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	66.0649 ppm	1.4985 ppm	0.0046 ppm	351.0935 ppm	0.0052 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 1	67.9037 ppm	1.5069 ppm	0.0047 ppm	352.8023 ppm	0.0048 ppm	-0.0016 ppm	0.0005 ppm
Concentration per Run 2	65.7764 ppm	1.4904 ppm	0.0047 ppm	350.1734 ppm	0.0067 ppm	-0.0004 ppm	0.0017 ppm
Concentration per Run 3	64.5145 ppm	1.4982 ppm	0.0045 ppm	350.3048 ppm	0.0042 ppm	-0.0005 ppm	-0.0011 ppm
Concentration RSD	2.6 %	0.6 %	3.0 %	0.4 %	25.4 %	84.0 %	350.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	15.6771 ppm	0.0028 ppm	2.0074 ppm	0.0024 ppm	0.0007 ppm	0.0012 ppm
Concentration per Run 1	-0.0032 ppm	16.0980 ppm	0.0030 ppm	2.0222 ppm	0.0023 ppm	0.0019 ppm	0.0013 ppm
Concentration per Run 2	-0.0011 ppm	15.6568 ppm	0.0026 ppm	2.0016 ppm	0.0024 ppm	-0.0009 ppm	0.0012 ppm
Concentration per Run 3	-0.0017 ppm	15.2765 ppm	0.0027 ppm	1.9984 ppm	0.0024 ppm	0.0011 ppm	0.0012 ppm
Concentration RSD	53.1 %	2.6 %	7.6 %	0.6 %	2.1 %	210.2 %	5.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0047 ppm	92.9193 %	98.8536 %	90.6653 %	94.5150 %	99.2395 %	96.5298 %
Concentration per Run 1	0.0046 ppm	90.5436 %	98.4947 %	89.7565 %	93.1647 %	99.4757 %	96.1028 %
Concentration per Run 2	0.0047 ppm	93.1672 %	99.4698 %	89.8740 %	94.6228 %	99.5725 %	95.6150 %
Concentration per Run 3	0.0046 ppm	95.0470 %	98.5962 %	92.3654 %	95.7574 %	98.6703 %	97.8717 %
Concentration RSD	0.9 %	2.4 %	0.5 %	1.6 %	1.4 %	0.5 %	1.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936001-5 WG1936001
Analysis started at: 6/19/2024 6:06:33 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	1.8713 ppm	0.1625 ppm	2.9673 ppm	2.3228 ppm	0.0485 ppm	227.1576 ppm
Concentration per Run 1	0.0512 ppm	1.8719 ppm	0.1635 ppm	3.0395 ppm	2.3276 ppm	0.0487 ppm	227.8762 ppm
Concentration per Run 2	0.0502 ppm	1.8760 ppm	0.1621 ppm	2.9578 ppm	2.3191 ppm	0.0484 ppm	226.6915 ppm
Concentration per Run 3	0.0490 ppm	1.8660 ppm	0.1619 ppm	2.9045 ppm	2.3216 ppm	0.0485 ppm	226.9051 ppm
Concentration RSD	2.2 %	0.3 %	0.5 %	2.3 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0503 ppm	0.4710 ppm	0.1928 ppm	0.2496 ppm	1.3213 ppm	58.0242 ppm	0.0445 ppm
Concentration per Run 1	0.0516 ppm	0.4821 ppm	0.1969 ppm	0.2573 ppm	1.3253 ppm	57.9706 ppm	0.0471 ppm
Concentration per Run 2	0.0498 ppm	0.4696 ppm	0.1912 ppm	0.2475 ppm	1.3185 ppm	57.9930 ppm	0.0433 ppm
Concentration per Run 3	0.0496 ppm	0.4615 ppm	0.1903 ppm	0.2440 ppm	1.3201 ppm	58.1089 ppm	0.0432 ppm
Concentration RSD	2.2 %	2.2 %	1.9 %	2.8 %	0.3 %	0.1 %	5.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	72.6447 ppm	1.9132 ppm	0.8883 ppm	347.7153 ppm	0.4737 ppm	0.5196 ppm	0.3846 ppm
Concentration per Run 1	74.4241 ppm	1.9205 ppm	0.8937 ppm	348.8068 ppm	0.4850 ppm	0.5239 ppm	0.3835 ppm
Concentration per Run 2	72.2004 ppm	1.9079 ppm	0.8873 ppm	346.6552 ppm	0.4719 ppm	0.5184 ppm	0.3883 ppm
Concentration per Run 3	71.3095 ppm	1.9112 ppm	0.8839 ppm	347.6838 ppm	0.4640 ppm	0.5166 ppm	0.3819 ppm
Concentration RSD	2.2 %	0.3 %	0.6 %	0.3 %	2.2 %	0.7 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1142 ppm	16.0699 ppm	0.9445 ppm	2.8673 ppm	1.0120 ppm	0.1191 ppm	0.4956 ppm
Concentration per Run 1	0.1132 ppm	16.4370 ppm	0.9600 ppm	2.8809 ppm	1.0367 ppm	0.1196 ppm	0.5094 ppm
Concentration per Run 2	0.1152 ppm	16.0031 ppm	0.9437 ppm	2.8575 ppm	1.0068 ppm	0.1185 ppm	0.4914 ppm
Concentration per Run 3	0.1142 ppm	15.7696 ppm	0.9299 ppm	2.8635 ppm	0.9924 ppm	0.1192 ppm	0.4860 ppm
Concentration RSD	0.9 %	2.1 %	1.6 %	0.4 %	2.2 %	0.5 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4813 ppm	94.4617 %	99.4660 %	89.3217 %	94.2573 %	98.3364 %	94.9865 %
Concentration per Run 1	0.4926 ppm	92.4587 %	98.7122 %	88.5593 %	93.3754 %	97.8109 %	94.8173 %
Concentration per Run 2	0.4794 ppm	94.7807 %	99.4967 %	89.5650 %	94.3207 %	98.3958 %	95.0343 %
Concentration per Run 3	0.4719 ppm	96.1457 %	100.1890 %	89.8409 %	95.0759 %	98.8025 %	95.1078 %
Concentration RSD	2.2 %	2.0 %	0.7 %	0.8 %	0.9 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936001-6D5 WG1936001
Analysis started at: 6/19/2024 6:10:32 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0143 ppm	0.0063 ppm	0.4087 ppm	0.0944 ppm	0.0001 ppm	46.6955 ppm
Concentration per Run 1	-0.0006 ppm	0.0122 ppm	0.0058 ppm	0.4165 ppm	0.0949 ppm	0.0001 ppm	46.8358 ppm
Concentration per Run 2	-0.0007 ppm	0.0152 ppm	0.0067 ppm	0.4055 ppm	0.0945 ppm	0.0001 ppm	46.5096 ppm
Concentration per Run 3	-0.0005 ppm	0.0157 ppm	0.0063 ppm	0.4040 ppm	0.0938 ppm	0.0000 ppm	46.7410 ppm
Concentration RSD	10.3 %	13.0 %	6.9 %	1.7 %	0.6 %	56.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0011 ppm	0.0009 ppm	0.0010 ppm	0.0776 ppm	9.8019 ppm	0.0070 ppm
Concentration per Run 1	0.0000 ppm	0.0013 ppm	0.0009 ppm	0.0013 ppm	0.0785 ppm	9.7881 ppm	0.0077 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0010 ppm	0.0008 ppm	0.0757 ppm	9.8606 ppm	0.0072 ppm
Concentration per Run 3	0.0001 ppm	0.0012 ppm	0.0007 ppm	0.0010 ppm	0.0785 ppm	9.7572 ppm	0.0061 ppm
Concentration RSD	2,794.0 %	26.1 %	15.2 %	26.2 %	2.1 %	0.5 %	12.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.2859 ppm	0.3025 ppm	0.0040 ppm	74.4317 ppm	0.0007 ppm	-0.0008 ppm	0.0050 ppm
Concentration per Run 1	13.5549 ppm	0.3041 ppm	0.0048 ppm	74.5852 ppm	0.0009 ppm	-0.0002 ppm	0.0044 ppm
Concentration per Run 2	13.2493 ppm	0.3017 ppm	0.0041 ppm	74.2121 ppm	0.0010 ppm	-0.0012 ppm	0.0056 ppm
Concentration per Run 3	13.0534 ppm	0.3017 ppm	0.0032 ppm	74.4979 ppm	0.0002 ppm	-0.0011 ppm	0.0052 ppm
Concentration RSD	1.9 %	0.5 %	19.7 %	0.3 %	63.5 %	63.5 %	11.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	2.9886 ppm	0.0072 ppm	0.4078 ppm	0.0016 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	0.0004 ppm	3.0520 ppm	0.0086 ppm	0.4102 ppm	0.0016 ppm	0.0028 ppm	0.0004 ppm
Concentration per Run 2	-0.0018 ppm	2.9786 ppm	0.0066 ppm	0.4064 ppm	0.0019 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	2.9352 ppm	0.0063 ppm	0.4067 ppm	0.0012 ppm	-0.0002 ppm	0.0001 ppm
Concentration RSD	259.2 %	2.0 %	17.5 %	0.5 %	20.1 %	332.8 %	202.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	98.6879 %	99.5889 %	98.4860 %	97.9794 %	98.4707 %	99.6791 %
Concentration per Run 1	0.0029 ppm	96.8372 %	98.6451 %	97.7049 %	97.0626 %	97.9566 %	99.7345 %
Concentration per Run 2	0.0028 ppm	99.0487 %	100.2259 %	98.7930 %	97.9882 %	98.8148 %	99.7764 %
Concentration per Run 3	0.0027 ppm	100.1778 %	99.8957 %	98.9602 %	98.8873 %	98.6408 %	99.5263 %
Concentration RSD	3.1 %	1.7 %	0.8 %	0.7 %	0.9 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 6:14:31 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4824 ppm	0.4748 ppm	0.4691 ppm	0.4766 ppm	0.4824 ppm	0.4977 ppm	0.4962 ppm
Concentration per Run 1	0.4872 ppm	0.4698 ppm	0.4676 ppm	0.4793 ppm	0.4826 ppm	0.5013 ppm	0.4999 ppm
Concentration per Run 2	0.4815 ppm	0.4826 ppm	0.4711 ppm	0.4764 ppm	0.4812 ppm	0.4943 ppm	0.4962 ppm
Concentration per Run 3	0.4784 ppm	0.4719 ppm	0.4687 ppm	0.4741 ppm	0.4835 ppm	0.4974 ppm	0.4925 ppm
Recovery Percentage 1	96.479 %	94.954 %	93.828 %	95.324 %	96.487 %	99.535 %	99.242 %
Concentration RSD	0.9 %	1.4 %	0.4 %	0.6 %	0.2 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4865 ppm	0.4917 ppm	0.4798 ppm	0.4724 ppm	0.5130 ppm	5.2400 ppm	0.4862 ppm
Concentration per Run 1	0.4919 ppm	0.4953 ppm	0.4848 ppm	0.4775 ppm	0.5166 ppm	5.3056 ppm	0.4874 ppm
Concentration per Run 2	0.4854 ppm	0.4904 ppm	0.4782 ppm	0.4717 ppm	0.5098 ppm	5.1730 ppm	0.4856 ppm
Concentration per Run 3	0.4821 ppm	0.4894 ppm	0.4764 ppm	0.4682 ppm	0.5128 ppm	5.2412 ppm	0.4856 ppm
Recovery Percentage 1	97.294 %	98.341 %	95.957 %	94.488 %	102.609 %	104.799 %	97.244 %
Concentration RSD	1.0 %	0.6 %	0.9 %	1.0 %	0.7 %	1.3 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4787 ppm	0.4964 ppm	0.4739 ppm	10.6110 ppm	0.4962 ppm	0.4766 ppm	0.4781 ppm
Concentration per Run 1	0.4823 ppm	0.4979 ppm	0.4752 ppm	10.6731 ppm	0.5007 ppm	0.4759 ppm	0.4880 ppm
Concentration per Run 2	0.4792 ppm	0.4952 ppm	0.4718 ppm	10.5552 ppm	0.4944 ppm	0.4779 ppm	0.4752 ppm
Concentration per Run 3	0.4745 ppm	0.4961 ppm	0.4748 ppm	10.6048 ppm	0.4934 ppm	0.4760 ppm	0.4712 ppm
Recovery Percentage 1	95.735 %	99.281 %	94.788 %	106.110 %	99.233 %	95.320 %	95.623 %
Concentration RSD	0.8 %	0.3 %	0.4 %	0.6 %	0.8 %	0.2 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4693 ppm	5.0041 ppm	0.5109 ppm	0.4875 ppm	0.4896 ppm	0.4728 ppm	0.4817 ppm
Concentration per Run 1	0.4720 ppm	5.0579 ppm	0.5139 ppm	0.4899 ppm	0.4938 ppm	0.4705 ppm	0.4854 ppm
Concentration per Run 2	0.4682 ppm	4.9950 ppm	0.5103 ppm	0.4846 ppm	0.4892 ppm	0.4721 ppm	0.4808 ppm
Concentration per Run 3	0.4678 ppm	4.9595 ppm	0.5085 ppm	0.4880 ppm	0.4857 ppm	0.4757 ppm	0.4790 ppm
Recovery Percentage 1	93.863 %	95.317 %	102.183 %	97.501 %	97.913 %	94.554 %	96.347 %
Concentration RSD	0.5 %	1.0 %	0.5 %	0.6 %	0.8 %	0.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4957 ppm	104.4579 %	103.0010 %	103.1222 %	99.1733 %	99.6133 %	101.2905 %
Concentration per Run 1	0.5006 ppm	103.5856 %	102.6840 %	103.2914 %	98.3740 %	99.7291 %	101.4848 %
Concentration per Run 2	0.4943 ppm	104.4211 %	103.2862 %	103.3226 %	99.0843 %	99.5809 %	101.6312 %
Concentration per Run 3	0.4923 ppm	105.3670 %	103.0329 %	102.7526 %	100.0616 %	99.5298 %	100.7555 %
Recovery Percentage 1	99.144 %						
Concentration RSD	0.9 %	0.9 %	0.3 %	0.3 %	0.9 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 6:18:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	-0.0040 ppm	-0.0006 ppm	0.0012 ppm	-0.0003 ppm	0.0001 ppm	0.0119 ppm
Concentration per Run 1	-0.0010 ppm	0.0024 ppm	0.0004 ppm	0.0018 ppm	-0.0002 ppm	0.0001 ppm	0.0076 ppm
Concentration per Run 2	-0.0003 ppm	-0.0109 ppm	-0.0011 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 3	-0.0013 ppm	-0.0034 ppm	-0.0010 ppm	0.0012 ppm	-0.0004 ppm	0.0001 ppm	0.0168 ppm
Recovery Percentage 1	-12.339 %	-3.992 %	-19.734 %	3.982 %	-3.335 %	1.944 %	11.935 %
Concentration RSD	57.9 %	167.4 %	139.3 %	50.8 %	37.6 %	49.0 %	38.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0007 ppm	0.0069 ppm	-0.0689 ppm	-0.0049 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0010 ppm	0.0072 ppm	-0.0854 ppm	-0.0062 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0066 ppm	-0.0710 ppm	-0.0058 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0007 ppm	0.0070 ppm	-0.0504 ppm	-0.0028 ppm
Recovery Percentage 1	1.338 %	-1.004 %	-2.094 %	6.862 %	13.776 %	-2.757 %	-49.420 %
Concentration RSD	27.5 %	45.4 %	118.6 %	44.6 %	4.5 %	25.5 %	37.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0014 ppm	0.0001 ppm	0.0006 ppm	0.1389 ppm	-0.0006 ppm	-0.0011 ppm	-0.0011 ppm
Concentration per Run 1	0.0010 ppm	0.0001 ppm	0.0007 ppm	0.1404 ppm	0.0001 ppm	-0.0003 ppm	0.0019 ppm
Concentration per Run 2	0.0023 ppm	0.0002 ppm	0.0001 ppm	0.1347 ppm	-0.0018 ppm	-0.0017 ppm	0.0003 ppm
Concentration per Run 3	0.0009 ppm	0.0000 ppm	0.0009 ppm	0.1416 ppm	-0.0002 ppm	-0.0015 ppm	-0.0056 ppm
Recovery Percentage 1	1.406 %	1.220 %	1.146 %	6.944 %	-2.522 %	-11.426 %	-2.272 %
Concentration RSD	57.2 %	64.8 %	71.0 %	2.6 %	162.2 %	67.5 %	347.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0007 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0004 ppm	0.0004 ppm	-0.0002 ppm	0.0007 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm	0.0009 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 3	-0.0015 ppm	0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0005 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-7.673 %	0.082 %	1.202 %	-1.215 %	6.979 %	-3.337 %	-0.834 %
Concentration RSD	89.5 %	20.4 %	39.1 %	80.6 %	24.0 %	234.7 %	249.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	98.1113 %	98.0842 %	99.0860 %	99.8199 %	99.3927 %	101.8629 %
Concentration per Run 1	0.0012 ppm	96.1298 %	97.4263 %	98.8660 %	98.5489 %	99.0116 %	102.2055 %
Concentration per Run 2	0.0013 ppm	98.5646 %	99.3325 %	99.1157 %	100.0358 %	100.4761 %	101.8517 %
Concentration per Run 3	0.0011 ppm	99.6394 %	97.4939 %	99.2762 %	100.8749 %	98.6904 %	101.5314 %
Recovery Percentage 1	24.204 %						
Concentration RSD	7.7 %	1.8 %	1.1 %	0.2 %	1.2 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433232-01 WG1935889
Analysis started at: 6/19/2024 6:27:45 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0710 ppm	0.0006 ppm	0.0485 ppm	0.0356 ppm	0.0000 ppm	13.9837 ppm
Concentration per Run 1	-0.0007 ppm	0.0759 ppm	0.0008 ppm	0.0486 ppm	0.0353 ppm	0.0001 ppm	13.9196 ppm
Concentration per Run 2	-0.0006 ppm	0.0596 ppm	0.0007 ppm	0.0475 ppm	0.0359 ppm	0.0000 ppm	13.9954 ppm
Concentration per Run 3	-0.0002 ppm	0.0774 ppm	0.0003 ppm	0.0493 ppm	0.0358 ppm	0.0001 ppm	14.0362 ppm
Concentration RSD	47.2 %	13.9 %	40.6 %	1.8 %	0.9 %	103.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0035 ppm	1.9761 ppm	4.7830 ppm	-0.0022 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0038 ppm	1.9679 ppm	4.7861 ppm	-0.0036 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0034 ppm	1.9818 ppm	4.8035 ppm	-0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0032 ppm	1.9786 ppm	4.7595 ppm	-0.0015 ppm
Concentration RSD	168.7 %	107.8 %	47.0 %	8.9 %	0.4 %	0.5 %	55.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.8464 ppm	0.0795 ppm	-0.0002 ppm	53.0933 ppm	0.0001 ppm	-0.0011 ppm	-0.0002 ppm
Concentration per Run 1	1.8427 ppm	0.0791 ppm	-0.0002 ppm	52.9988 ppm	-0.0010 ppm	-0.0015 ppm	0.0035 ppm
Concentration per Run 2	1.8440 ppm	0.0797 ppm	-0.0007 ppm	53.1760 ppm	0.0007 ppm	-0.0014 ppm	-0.0030 ppm
Concentration per Run 3	1.8524 ppm	0.0796 ppm	0.0003 ppm	53.1051 ppm	0.0005 ppm	-0.0003 ppm	-0.0010 ppm
Concentration RSD	0.3 %	0.4 %	224.6 %	0.2 %	1,264.2 %	59.4 %	1,634.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	3.3293 ppm	-0.0018 ppm	0.0785 ppm	0.0009 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	3.3285 ppm	-0.0014 ppm	0.0783 ppm	0.0008 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 2	-0.0006 ppm	3.3203 ppm	-0.0021 ppm	0.0784 ppm	0.0010 ppm	0.0017 ppm	-0.0002 ppm
Concentration per Run 3	-0.0024 ppm	3.3390 ppm	-0.0018 ppm	0.0787 ppm	0.0009 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	104.2 %	0.3 %	17.9 %	0.3 %	9.3 %	202.7 %	29.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	118.7902 %	109.1677 %	113.0456 %	104.7020 %	101.0359 %	104.9690 %
Concentration per Run 1	0.0050 ppm	119.0991 %	108.8823 %	113.4390 %	104.3467 %	100.5189 %	104.9715 %
Concentration per Run 2	0.0048 ppm	118.8640 %	109.7741 %	113.1134 %	104.7004 %	101.7339 %	105.1079 %
Concentration per Run 3	0.0052 ppm	118.4075 %	108.8468 %	112.5845 %	105.0590 %	100.8550 %	104.8275 %
Concentration RSD	3.7 %	0.3 %	0.5 %	0.4 %	0.3 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433375-01 WG1935889
Analysis started at: 6/19/2024 6:32:03 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0002 ppm	-0.0008 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0411 ppm
Concentration per Run 1	-0.0007 ppm	0.0041 ppm	-0.0012 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0432 ppm
Concentration per Run 2	-0.0008 ppm	-0.0021 ppm	-0.0005 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0396 ppm
Concentration per Run 3	-0.0006 ppm	-0.0014 ppm	-0.0007 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0405 ppm
Concentration RSD	17.0 %	1,646.3 %	45.3 %	55.7 %	6,788.1 %	958.5 %	4.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0055 ppm	-0.0677 ppm	-0.0052 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0007 ppm	0.0030 ppm	-0.0724 ppm	-0.0054 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0060 ppm	-0.0628 ppm	-0.0049 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0076 ppm	-0.0679 ppm	-0.0053 ppm
Concentration RSD	97.9 %	86.0 %	234.0 %	13.3 %	42.1 %	7.1 %	4.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0139 ppm	0.0001 ppm	-0.0007 ppm	0.1188 ppm	-0.0007 ppm	-0.0018 ppm	0.0009 ppm
Concentration per Run 1	0.0128 ppm	0.0000 ppm	-0.0010 ppm	0.1210 ppm	-0.0013 ppm	-0.0023 ppm	0.0010 ppm
Concentration per Run 2	0.0151 ppm	0.0001 ppm	-0.0008 ppm	0.1179 ppm	-0.0003 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 3	0.0137 ppm	0.0002 ppm	-0.0005 ppm	0.1173 ppm	-0.0005 ppm	-0.0019 ppm	0.0018 ppm
Concentration RSD	8.3 %	105.7 %	34.1 %	1.7 %	67.3 %	35.0 %	102.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0129 ppm	-0.0018 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0012 ppm	0.0154 ppm	-0.0017 ppm	0.0002 ppm	0.0004 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 2	0.0010 ppm	0.0099 ppm	-0.0024 ppm	0.0002 ppm	0.0007 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0135 ppm	-0.0014 ppm	0.0001 ppm	0.0005 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	1,086.4 %	21.7 %	26.5 %	21.8 %	31.7 %	269.2 %	54.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0131 ppm	98.3981 %	98.9483 %	99.7277 %	102.2095 %	101.2369 %	104.2588 %
Concentration per Run 1	0.0135 ppm	96.5772 %	99.1327 %	98.9887 %	101.6472 %	102.2052 %	104.0509 %
Concentration per Run 2	0.0130 ppm	98.5817 %	98.2845 %	99.3656 %	102.3195 %	100.5151 %	103.8603 %
Concentration per Run 3	0.0128 ppm	100.0354 %	99.4279 %	100.8288 %	102.6617 %	100.9904 %	104.8652 %
Concentration RSD	2.7 %	1.8 %	0.6 %	1.0 %	0.5 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433375-02 WG1935889
Analysis started at: 6/19/2024 6:36:03 PM
Rack 2
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0050 ppm	0.0003 ppm	0.0095 ppm	0.0187 ppm	0.0001 ppm	27.6919 ppm
Concentration per Run 1	-0.0011 ppm	0.0043 ppm	0.0021 ppm	0.0110 ppm	0.0190 ppm	0.0001 ppm	27.7612 ppm
Concentration per Run 2	-0.0003 ppm	0.0008 ppm	-0.0003 ppm	0.0087 ppm	0.0186 ppm	0.0000 ppm	27.7749 ppm
Concentration per Run 3	-0.0005 ppm	0.0097 ppm	-0.0009 ppm	0.0087 ppm	0.0185 ppm	0.0001 ppm	27.5395 ppm
Concentration RSD	63.0 %	90.4 %	488.8 %	14.1 %	1.5 %	37.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0023 ppm	0.0172 ppm	0.7198 ppm	-0.0043 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0008 ppm	0.0026 ppm	0.0165 ppm	0.7125 ppm	-0.0041 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0014 ppm	0.0022 ppm	0.0166 ppm	0.7362 ppm	-0.0050 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0008 ppm	0.0022 ppm	0.0184 ppm	0.7106 ppm	-0.0039 ppm
Concentration RSD	41.1 %	119.0 %	32.5 %	9.4 %	6.1 %	2.0 %	12.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.2045 ppm	0.0009 ppm	-0.0005 ppm	3.8569 ppm	0.0004 ppm	-0.0007 ppm	-0.0023 ppm
Concentration per Run 1	7.4032 ppm	0.0010 ppm	-0.0004 ppm	3.8713 ppm	0.0012 ppm	0.0004 ppm	-0.0034 ppm
Concentration per Run 2	7.1844 ppm	0.0008 ppm	-0.0008 ppm	3.8679 ppm	0.0000 ppm	-0.0015 ppm	-0.0032 ppm
Concentration per Run 3	7.0260 ppm	0.0008 ppm	-0.0003 ppm	3.8315 ppm	0.0002 ppm	-0.0011 ppm	-0.0003 ppm
Concentration RSD	2.6 %	15.1 %	58.5 %	0.6 %	148.0 %	133.9 %	77.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	3.4472 ppm	-0.0021 ppm	0.0723 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0008 ppm	3.5498 ppm	-0.0023 ppm	0.0726 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	3.4391 ppm	-0.0019 ppm	0.0727 ppm	0.0007 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0014 ppm	3.3525 ppm	-0.0022 ppm	0.0715 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm
Concentration RSD	606.5 %	2.9 %	9.6 %	0.9 %	16.5 %	500.3 %	225.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	98.9105 %	101.1803 %	99.9725 %	102.3900 %	103.1989 %	104.5130 %
Concentration per Run 1	0.0031 ppm	96.4363 %	100.6602 %	99.2985 %	101.1374 %	103.1454 %	104.2799 %
Concentration per Run 2	0.0027 ppm	99.3218 %	100.0678 %	100.3118 %	102.7849 %	101.8975 %	104.8464 %
Concentration per Run 3	0.0028 ppm	100.9733 %	102.8131 %	100.3073 %	103.2478 %	104.5538 %	104.4126 %
Concentration RSD	7.2 %	2.3 %	1.4 %	0.6 %	1.1 %	1.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433375-03 WG1935889
Analysis started at: 6/19/2024 6:40:03 PM
Rack 2
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0005 ppm	-0.0004 ppm	0.0103 ppm	0.0189 ppm	0.0000 ppm	27.4955 ppm
Concentration per Run 1	-0.0003 ppm	-0.0086 ppm	-0.0006 ppm	0.0110 ppm	0.0191 ppm	0.0000 ppm	27.5577 ppm
Concentration per Run 2	-0.0010 ppm	0.0033 ppm	0.0008 ppm	0.0092 ppm	0.0190 ppm	0.0000 ppm	27.5508 ppm
Concentration per Run 3	-0.0009 ppm	0.0039 ppm	-0.0015 ppm	0.0106 ppm	0.0186 ppm	0.0001 ppm	27.3781 ppm
Concentration RSD	53.1 %	1,499.4 %	273.7 %	9.3 %	1.3 %	206.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0011 ppm	0.0026 ppm	0.0096 ppm	0.7549 ppm	-0.0028 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0013 ppm	0.0031 ppm	0.0084 ppm	0.7927 ppm	-0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0010 ppm	0.0024 ppm	0.0099 ppm	0.7566 ppm	-0.0027 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0011 ppm	0.0024 ppm	0.0106 ppm	0.7154 ppm	-0.0026 ppm
Concentration RSD	119.0 %	65.6 %	12.0 %	14.3 %	11.7 %	5.1 %	7.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.1112 ppm	0.0005 ppm	-0.0007 ppm	3.9744 ppm	0.0002 ppm	-0.0007 ppm	-0.0020 ppm
Concentration per Run 1	7.2854 ppm	0.0004 ppm	-0.0009 ppm	3.9900 ppm	0.0000 ppm	0.0002 ppm	-0.0020 ppm
Concentration per Run 2	7.0639 ppm	0.0003 ppm	-0.0009 ppm	3.9734 ppm	0.0003 ppm	-0.0014 ppm	-0.0007 ppm
Concentration per Run 3	6.9844 ppm	0.0008 ppm	-0.0004 ppm	3.9597 ppm	0.0003 ppm	-0.0008 ppm	-0.0033 ppm
Concentration RSD	2.2 %	55.4 %	43.2 %	0.4 %	87.8 %	121.8 %	64.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	3.6047 ppm	-0.0024 ppm	0.0742 ppm	0.0007 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	3.6878 ppm	-0.0031 ppm	0.0750 ppm	0.0006 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	-0.0017 ppm	3.5831 ppm	-0.0014 ppm	0.0738 ppm	0.0007 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 3	0.0011 ppm	3.5432 ppm	-0.0026 ppm	0.0739 ppm	0.0008 ppm	-0.0008 ppm	0.0002 ppm
Concentration RSD	819.8 %	2.1 %	36.0 %	0.9 %	15.1 %	239.9 %	120.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0027 ppm	99.3948 %	100.6187 %	100.3694 %	102.4759 %	102.6857 %	104.4743 %
Concentration per Run 1	0.0027 ppm	97.0766 %	100.2125 %	99.8066 %	101.1032 %	102.5836 %	104.2886 %
Concentration per Run 2	0.0025 ppm	100.0277 %	100.4263 %	100.6947 %	102.8721 %	102.5377 %	104.7266 %
Concentration per Run 3	0.0028 ppm	101.0801 %	101.2173 %	100.6068 %	103.4523 %	102.9359 %	104.4077 %
Concentration RSD	5.1 %	2.1 %	0.5 %	0.5 %	1.2 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433375-05 WG1935889
Analysis started at: 6/19/2024 6:44:03 PM
Rack 2
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0130 ppm	0.0002 ppm	0.0139 ppm	0.0520 ppm	0.0001 ppm	14.3918 ppm
Concentration per Run 1	-0.0004 ppm	0.0139 ppm	0.0019 ppm	0.0143 ppm	0.0523 ppm	0.0001 ppm	14.3956 ppm
Concentration per Run 2	-0.0008 ppm	0.0129 ppm	-0.0004 ppm	0.0137 ppm	0.0521 ppm	0.0001 ppm	14.4641 ppm
Concentration per Run 3	-0.0010 ppm	0.0123 ppm	-0.0010 ppm	0.0138 ppm	0.0516 ppm	0.0001 ppm	14.3155 ppm
Concentration RSD	40.9 %	6.5 %	817.6 %	2.3 %	0.7 %	38.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm	0.0171 ppm	1.1972 ppm	-0.0044 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0016 ppm	0.0174 ppm	1.2459 ppm	-0.0048 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm	0.0181 ppm	1.1842 ppm	-0.0049 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0013 ppm	0.0159 ppm	1.1613 ppm	-0.0034 ppm
Concentration RSD	20.0 %	494.4 %	319.8 %	13.8 %	6.5 %	3.7 %	18.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.9758 ppm	0.0243 ppm	-0.0008 ppm	27.5563 ppm	-0.0002 ppm	-0.0021 ppm	-0.0021 ppm
Concentration per Run 1	3.0540 ppm	0.0243 ppm	-0.0006 ppm	27.4730 ppm	-0.0002 ppm	-0.0014 ppm	-0.0038 ppm
Concentration per Run 2	2.9629 ppm	0.0243 ppm	-0.0009 ppm	27.6294 ppm	-0.0008 ppm	-0.0020 ppm	-0.0023 ppm
Concentration per Run 3	2.9104 ppm	0.0242 ppm	-0.0008 ppm	27.5664 ppm	0.0003 ppm	-0.0028 ppm	-0.0004 ppm
Concentration RSD	2.4 %	0.4 %	21.6 %	0.3 %	284.4 %	32.7 %	78.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	5.0890 ppm	-0.0022 ppm	0.0503 ppm	0.0012 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 1	-0.0027 ppm	5.2372 ppm	-0.0019 ppm	0.0504 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0009 ppm	5.0460 ppm	-0.0016 ppm	0.0501 ppm	0.0013 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0024 ppm	4.9837 ppm	-0.0031 ppm	0.0503 ppm	0.0011 ppm	0.0006 ppm	-0.0001 ppm
Concentration RSD	1,362.3 %	2.6 %	36.3 %	0.3 %	10.1 %	123.5 %	93.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	98.8834 %	100.6995 %	100.0061 %	100.8811 %	101.3495 %	102.9942 %
Concentration per Run 1	0.0014 ppm	96.5760 %	101.3196 %	100.0824 %	99.7983 %	102.3673 %	103.3956 %
Concentration per Run 2	0.0013 ppm	99.3636 %	99.9466 %	99.5221 %	101.0503 %	100.6912 %	102.4992 %
Concentration per Run 3	0.0014 ppm	100.7107 %	100.8322 %	100.4136 %	101.7948 %	100.9901 %	103.0880 %
Concentration RSD	3.7 %	2.1 %	0.7 %	0.5 %	1.0 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433492-01 WG1935889
Analysis started at: 6/19/2024 6:48:05 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0044 ppm	0.0009 ppm	0.0457 ppm	0.0124 ppm	0.0001 ppm	46.7874 ppm
Concentration per Run 1	-0.0007 ppm	0.0004 ppm	0.0010 ppm	0.0464 ppm	0.0124 ppm	0.0001 ppm	46.7459 ppm
Concentration per Run 2	-0.0009 ppm	0.0039 ppm	0.0004 ppm	0.0456 ppm	0.0126 ppm	0.0000 ppm	46.9052 ppm
Concentration per Run 3	-0.0006 ppm	0.0090 ppm	0.0013 ppm	0.0453 ppm	0.0123 ppm	0.0001 ppm	46.7111 ppm
Concentration RSD	24.3 %	97.2 %	47.8 %	1.2 %	1.0 %	57.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1794 ppm	0.0000 ppm	0.0032 ppm	0.0037 ppm	0.0817 ppm	5.4522 ppm	0.0020 ppm
Concentration per Run 1	0.1834 ppm	0.0001 ppm	0.0031 ppm	0.0037 ppm	0.0822 ppm	5.5487 ppm	0.0048 ppm
Concentration per Run 2	0.1793 ppm	0.0002 ppm	0.0031 ppm	0.0033 ppm	0.0826 ppm	5.3826 ppm	0.0011 ppm
Concentration per Run 3	0.1754 ppm	-0.0003 ppm	0.0035 ppm	0.0041 ppm	0.0802 ppm	5.4252 ppm	0.0002 ppm
Concentration RSD	2.3 %	1,387.7 %	6.2 %	9.8 %	1.6 %	1.6 %	118.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9324 ppm	0.1134 ppm	0.0004 ppm	16.4491 ppm	0.0012 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 1	6.0674 ppm	0.1135 ppm	0.0008 ppm	16.4556 ppm	0.0012 ppm	-0.0016 ppm	0.0019 ppm
Concentration per Run 2	5.9119 ppm	0.1134 ppm	-0.0002 ppm	16.4828 ppm	0.0014 ppm	-0.0009 ppm	-0.0007 ppm
Concentration per Run 3	5.8180 ppm	0.1132 ppm	0.0007 ppm	16.4088 ppm	0.0010 ppm	-0.0014 ppm	-0.0020 ppm
Concentration RSD	2.1 %	0.1 %	127.8 %	0.2 %	15.8 %	28.7 %	813.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	9.6453 ppm	-0.0015 ppm	0.2067 ppm	0.0011 ppm	-0.0002 ppm	0.0013 ppm
Concentration per Run 1	0.0012 ppm	9.8684 ppm	-0.0013 ppm	0.2065 ppm	0.0011 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 2	-0.0006 ppm	9.6199 ppm	-0.0020 ppm	0.2075 ppm	0.0012 ppm	-0.0003 ppm	0.0011 ppm
Concentration per Run 3	-0.0001 ppm	9.4476 ppm	-0.0011 ppm	0.2059 ppm	0.0012 ppm	-0.0007 ppm	0.0014 ppm
Concentration RSD	656.4 %	2.2 %	31.9 %	0.4 %	1.8 %	328.7 %	11.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0059 ppm	97.9184 %	99.4031 %	98.6423 %	99.8739 %	100.1716 %	101.7562 %
Concentration per Run 1	0.0059 ppm	96.0120 %	99.4547 %	98.0337 %	99.0780 %	100.3864 %	101.7378 %
Concentration per Run 2	0.0060 ppm	97.7829 %	99.1292 %	98.3266 %	99.7601 %	100.0571 %	101.4481 %
Concentration per Run 3	0.0059 ppm	99.9603 %	99.6254 %	99.5665 %	100.7835 %	100.0713 %	102.0828 %
Concentration RSD	0.6 %	2.0 %	0.3 %	0.8 %	0.9 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935889-7 WG1935889
Analysis started at: 6/19/2024 6:52:04 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0488 ppm	1.8864 ppm	0.1211 ppm	1.0300 ppm	1.8860 ppm	0.0494 ppm	55.4868 ppm
Concentration per Run 1	0.0496 ppm	1.8938 ppm	0.1199 ppm	1.0466 ppm	1.8971 ppm	0.0497 ppm	55.6618 ppm
Concentration per Run 2	0.0488 ppm	1.8807 ppm	0.1223 ppm	1.0275 ppm	1.8844 ppm	0.0494 ppm	55.3152 ppm
Concentration per Run 3	0.0481 ppm	1.8846 ppm	0.1210 ppm	1.0159 ppm	1.8767 ppm	0.0493 ppm	55.4834 ppm
Concentration RSD	1.6 %	0.4 %	1.0 %	1.5 %	0.5 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.2259 ppm	0.4807 ppm	0.1946 ppm	0.2475 ppm	1.0719 ppm	16.1869 ppm	0.0026 ppm
Concentration per Run 1	0.2299 ppm	0.4903 ppm	0.1979 ppm	0.2520 ppm	1.0773 ppm	16.1933 ppm	0.0018 ppm
Concentration per Run 2	0.2252 ppm	0.4803 ppm	0.1949 ppm	0.2469 ppm	1.0681 ppm	16.1424 ppm	0.0048 ppm
Concentration per Run 3	0.2226 ppm	0.4716 ppm	0.1910 ppm	0.2435 ppm	1.0703 ppm	16.2250 ppm	0.0010 ppm
Concentration RSD	1.7 %	1.9 %	1.8 %	1.7 %	0.4 %	0.3 %	78.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.5218 ppm	0.6057 ppm	0.8917 ppm	26.5003 ppm	0.4892 ppm	0.5219 ppm	0.4279 ppm
Concentration per Run 1	15.8215 ppm	0.6083 ppm	0.8934 ppm	26.5738 ppm	0.4987 ppm	0.5230 ppm	0.4309 ppm
Concentration per Run 2	15.4511 ppm	0.6046 ppm	0.8915 ppm	26.4905 ppm	0.4902 ppm	0.5232 ppm	0.4271 ppm
Concentration per Run 3	15.2928 ppm	0.6042 ppm	0.8901 ppm	26.4365 ppm	0.4789 ppm	0.5194 ppm	0.4256 ppm
Concentration RSD	1.7 %	0.4 %	0.2 %	0.3 %	2.0 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1158 ppm	10.5760 ppm	0.9655 ppm	1.1430 ppm	1.0054 ppm	0.1182 ppm	0.4941 ppm
Concentration per Run 1	0.1171 ppm	10.7670 ppm	0.9748 ppm	1.1526 ppm	1.0249 ppm	0.1207 ppm	0.5031 ppm
Concentration per Run 2	0.1155 ppm	10.5372 ppm	0.9679 ppm	1.1391 ppm	1.0032 ppm	0.1170 ppm	0.4928 ppm
Concentration per Run 3	0.1149 ppm	10.4239 ppm	0.9538 ppm	1.1373 ppm	0.9883 ppm	0.1170 ppm	0.4865 ppm
Concentration RSD	1.0 %	1.7 %	1.1 %	0.7 %	1.8 %	1.8 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5054 ppm	100.2680 %	102.2529 %	98.1813 %	99.6517 %	100.8592 %	101.0190 %
Concentration per Run 1	0.5140 ppm	98.4343 %	101.7812 %	97.9567 %	98.8001 %	100.8655 %	101.0283 %
Concentration per Run 2	0.5052 ppm	100.7140 %	102.7554 %	98.1063 %	99.9864 %	101.4312 %	100.7925 %
Concentration per Run 3	0.4969 ppm	101.6557 %	102.2221 %	98.4809 %	100.1686 %	100.2809 %	101.2360 %
Concentration RSD	1.7 %	1.7 %	0.5 %	0.3 %	0.7 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935889-8 WG1935889
Analysis started at: 6/19/2024 6:56:04 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0093 ppm	0.0000 ppm	0.0460 ppm	0.0123 ppm	0.0001 ppm	45.9325 ppm
Concentration per Run 1	-0.0008 ppm	0.0079 ppm	0.0005 ppm	0.0448 ppm	0.0126 ppm	0.0000 ppm	46.1221 ppm
Concentration per Run 2	-0.0006 ppm	0.0122 ppm	0.0005 ppm	0.0469 ppm	0.0121 ppm	0.0000 ppm	45.9657 ppm
Concentration per Run 3	-0.0004 ppm	0.0078 ppm	-0.0009 ppm	0.0463 ppm	0.0122 ppm	0.0001 ppm	45.7097 ppm
Concentration RSD	30.1 %	26.8 %	3,421.2 %	2.4 %	2.2 %	62.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1746 ppm	0.0001 ppm	0.0028 ppm	0.0034 ppm	0.0825 ppm	5.3524 ppm	0.0023 ppm
Concentration per Run 1	0.1773 ppm	0.0003 ppm	0.0027 ppm	0.0035 ppm	0.0821 ppm	5.3944 ppm	0.0020 ppm
Concentration per Run 2	0.1742 ppm	0.0000 ppm	0.0026 ppm	0.0033 ppm	0.0816 ppm	5.3383 ppm	0.0040 ppm
Concentration per Run 3	0.1723 ppm	-0.0002 ppm	0.0032 ppm	0.0035 ppm	0.0837 ppm	5.3245 ppm	0.0008 ppm
Concentration RSD	1.5 %	381.3 %	11.8 %	3.5 %	1.4 %	0.7 %	73.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7974 ppm	0.1115 ppm	0.0043 ppm	16.1285 ppm	0.0014 ppm	-0.0004 ppm	-0.0009 ppm
Concentration per Run 1	5.8886 ppm	0.1120 ppm	0.0047 ppm	16.2147 ppm	0.0013 ppm	-0.0002 ppm	-0.0027 ppm
Concentration per Run 2	5.7843 ppm	0.1118 ppm	0.0044 ppm	16.0767 ppm	0.0017 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 3	5.7191 ppm	0.1108 ppm	0.0040 ppm	16.0941 ppm	0.0011 ppm	-0.0007 ppm	0.0009 ppm
Concentration RSD	1.5 %	0.6 %	7.3 %	0.5 %	21.2 %	67.7 %	209.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	9.3819 ppm	0.0017 ppm	0.2020 ppm	0.0012 ppm	0.0008 ppm	0.0014 ppm
Concentration per Run 1	0.0018 ppm	9.5359 ppm	0.0016 ppm	0.2031 ppm	0.0012 ppm	0.0011 ppm	0.0015 ppm
Concentration per Run 2	-0.0006 ppm	9.3510 ppm	0.0014 ppm	0.2016 ppm	0.0013 ppm	0.0007 ppm	0.0013 ppm
Concentration per Run 3	-0.0002 ppm	9.2589 ppm	0.0020 ppm	0.2012 ppm	0.0010 ppm	0.0005 ppm	0.0014 ppm
Concentration RSD	382.6 %	1.5 %	16.5 %	0.5 %	11.9 %	39.3 %	6.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0055 ppm	99.6919 %	100.5715 %	99.0808 %	100.9149 %	100.5816 %	101.8295 %
Concentration per Run 1	0.0058 ppm	98.4002 %	99.7950 %	98.5523 %	100.7586 %	100.4613 %	101.6949 %
Concentration per Run 2	0.0053 ppm	99.8023 %	100.8709 %	98.9095 %	100.8356 %	100.6583 %	101.7098 %
Concentration per Run 3	0.0054 ppm	100.8732 %	101.0486 %	99.7807 %	101.1503 %	100.6251 %	102.0836 %
Concentration RSD	4.6 %	1.2 %	0.7 %	0.6 %	0.2 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935889-9 WG1935889
Analysis started at: 6/19/2024 7:00:04 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0471 ppm	1.8835 ppm	0.1169 ppm	0.9984 ppm	1.9006 ppm	0.0498 ppm	55.4943 ppm
Concentration per Run 1	0.0483 ppm	1.7728 ppm	0.1174 ppm	1.0172 ppm	1.7857 ppm	0.0468 ppm	52.0365 ppm
Concentration per Run 2	0.0465 ppm	1.9880 ppm	0.1171 ppm	0.9888 ppm	2.0149 ppm	0.0528 ppm	58.7294 ppm
Concentration per Run 3	0.0466 ppm	1.8896 ppm	0.1162 ppm	0.9893 ppm	1.9013 ppm	0.0500 ppm	55.7171 ppm
Concentration RSD	2.2 %	5.7 %	0.5 %	1.6 %	6.0 %	6.0 %	6.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.2157 ppm	0.4656 ppm	0.1886 ppm	0.2388 ppm	1.0799 ppm	16.2258 ppm	0.0020 ppm
Concentration per Run 1	0.2202 ppm	0.4774 ppm	0.1940 ppm	0.2438 ppm	1.0073 ppm	15.2931 ppm	0.0030 ppm
Concentration per Run 2	0.2139 ppm	0.4617 ppm	0.1860 ppm	0.2375 ppm	1.1501 ppm	17.1012 ppm	0.0022 ppm
Concentration per Run 3	0.2130 ppm	0.4576 ppm	0.1858 ppm	0.2351 ppm	1.0825 ppm	16.2830 ppm	0.0008 ppm
Concentration RSD	1.8 %	2.2 %	2.5 %	1.9 %	6.6 %	5.6 %	55.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.9492 ppm	0.6086 ppm	0.8599 ppm	26.5774 ppm	0.4757 ppm	0.5053 ppm	0.3557 ppm
Concentration per Run 1	15.3101 ppm	0.5708 ppm	0.8643 ppm	24.9424 ppm	0.4883 ppm	0.5075 ppm	0.3570 ppm
Concentration per Run 2	14.8446 ppm	0.6445 ppm	0.8561 ppm	28.1224 ppm	0.4724 ppm	0.5051 ppm	0.3563 ppm
Concentration per Run 3	14.6929 ppm	0.6103 ppm	0.8594 ppm	26.6674 ppm	0.4665 ppm	0.5033 ppm	0.3539 ppm
Concentration RSD	2.2 %	6.1 %	0.5 %	6.0 %	2.4 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1127 ppm	10.0146 ppm	0.9368 ppm	1.1517 ppm	0.9758 ppm	0.1141 ppm	0.4777 ppm
Concentration per Run 1	0.1144 ppm	10.2188 ppm	0.9592 ppm	1.0793 ppm	0.9970 ppm	0.1147 ppm	0.4877 ppm
Concentration per Run 2	0.1105 ppm	9.9449 ppm	0.9248 ppm	1.2222 ppm	0.9696 ppm	0.1145 ppm	0.4744 ppm
Concentration per Run 3	0.1133 ppm	9.8802 ppm	0.9264 ppm	1.1535 ppm	0.9607 ppm	0.1132 ppm	0.4709 ppm
Concentration RSD	1.8 %	1.8 %	2.1 %	6.2 %	1.9 %	0.7 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4900 ppm	102.2185 %	98.4688 %	100.2507 %	100.0627 %	97.1943 %	101.5629 %
Concentration per Run 1	0.5020 ppm	100.0628 %	104.0928 %	99.7233 %	99.0073 %	101.9337 %	101.5895 %
Concentration per Run 2	0.4861 ppm	102.8776 %	93.9486 %	100.4374 %	100.5639 %	92.4215 %	101.9593 %
Concentration per Run 3	0.4819 ppm	103.7149 %	97.3650 %	100.5915 %	100.6170 %	97.2276 %	101.1399 %
Concentration RSD	2.2 %	1.9 %	5.2 %	0.5 %	0.9 %	4.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1935889-10D5 WG1935889
Analysis started at: 6/19/2024 7:04:04 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	-0.0019 ppm	0.0006 ppm	0.0095 ppm	0.0021 ppm	0.0000 ppm	9.3161 ppm
Concentration per Run 1	-0.0011 ppm	-0.0058 ppm	0.0013 ppm	0.0089 ppm	0.0021 ppm	0.0000 ppm	9.3479 ppm
Concentration per Run 2	-0.0009 ppm	0.0052 ppm	0.0011 ppm	0.0100 ppm	0.0022 ppm	0.0001 ppm	9.2895 ppm
Concentration per Run 3	-0.0007 ppm	-0.0050 ppm	-0.0007 ppm	0.0095 ppm	0.0020 ppm	0.0000 ppm	9.3108 ppm
Concentration RSD	21.9 %	329.3 %	184.6 %	5.8 %	4.5 %	141.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0352 ppm	-0.0001 ppm	0.0004 ppm	0.0013 ppm	0.0186 ppm	1.0625 ppm	-0.0032 ppm
Concentration per Run 1	0.0358 ppm	-0.0004 ppm	0.0005 ppm	0.0011 ppm	0.0162 ppm	1.0687 ppm	-0.0003 ppm
Concentration per Run 2	0.0351 ppm	0.0005 ppm	0.0002 ppm	0.0012 ppm	0.0217 ppm	1.0338 ppm	-0.0046 ppm
Concentration per Run 3	0.0347 ppm	-0.0003 ppm	0.0006 ppm	0.0016 ppm	0.0179 ppm	1.0851 ppm	-0.0047 ppm
Concentration RSD	1.6 %	591.0 %	46.3 %	22.1 %	15.2 %	2.5 %	78.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1756 ppm	0.0228 ppm	0.0040 ppm	3.4016 ppm	0.0007 ppm	-0.0012 ppm	0.0048 ppm
Concentration per Run 1	1.1995 ppm	0.0230 ppm	0.0038 ppm	3.4100 ppm	0.0010 ppm	-0.0013 ppm	0.0053 ppm
Concentration per Run 2	1.1690 ppm	0.0227 ppm	0.0040 ppm	3.3852 ppm	0.0005 ppm	-0.0011 ppm	0.0035 ppm
Concentration per Run 3	1.1583 ppm	0.0225 ppm	0.0040 ppm	3.4096 ppm	0.0006 ppm	-0.0011 ppm	0.0057 ppm
Concentration RSD	1.8 %	1.0 %	3.7 %	0.4 %	34.1 %	9.2 %	24.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	1.8220 ppm	0.0066 ppm	0.0402 ppm	0.0009 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0014 ppm	1.8638 ppm	0.0057 ppm	0.0403 ppm	0.0011 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	1.8119 ppm	0.0077 ppm	0.0401 ppm	0.0006 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	1.7904 ppm	0.0065 ppm	0.0401 ppm	0.0011 ppm	0.0012 ppm	0.0003 ppm
Concentration RSD	172.6 %	2.1 %	15.0 %	0.3 %	27.4 %	220.2 %	247.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0029 ppm	100.9049 %	100.8405 %	102.5802 %	100.4812 %	99.6728 %	103.3228 %
Concentration per Run 1	0.0030 ppm	98.6032 %	100.3913 %	102.3562 %	99.0841 %	99.1998 %	103.6070 %
Concentration per Run 2	0.0030 ppm	101.5875 %	101.7369 %	102.5796 %	101.0911 %	100.7039 %	103.3836 %
Concentration per Run 3	0.0028 ppm	102.5241 %	100.3932 %	102.8047 %	101.2683 %	99.1145 %	102.9776 %
Concentration RSD	4.3 %	2.0 %	0.8 %	0.2 %	1.2 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 7:08:03 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4879 ppm	0.4722 ppm	0.4705 ppm	0.4785 ppm	0.4844 ppm	0.5051 ppm	0.4975 ppm
Concentration per Run 1	0.4962 ppm	0.4777 ppm	0.4716 ppm	0.4839 ppm	0.4884 ppm	0.5057 ppm	0.4958 ppm
Concentration per Run 2	0.4854 ppm	0.4663 ppm	0.4718 ppm	0.4784 ppm	0.4817 ppm	0.5059 ppm	0.4986 ppm
Concentration per Run 3	0.4820 ppm	0.4724 ppm	0.4681 ppm	0.4733 ppm	0.4832 ppm	0.5038 ppm	0.4980 ppm
Recovery Percentage 1	97.573 %	94.431 %	94.103 %	95.707 %	96.887 %	101.021 %	99.497 %
Concentration RSD	1.5 %	1.2 %	0.4 %	1.1 %	0.7 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4918 ppm	0.4966 ppm	0.4834 ppm	0.4756 ppm	0.5252 ppm	5.3788 ppm	0.4963 ppm
Concentration per Run 1	0.4996 ppm	0.5022 ppm	0.4902 ppm	0.4806 ppm	0.5268 ppm	5.4338 ppm	0.5005 ppm
Concentration per Run 2	0.4907 ppm	0.4958 ppm	0.4819 ppm	0.4758 ppm	0.5223 ppm	5.3474 ppm	0.4945 ppm
Concentration per Run 3	0.4850 ppm	0.4919 ppm	0.4783 ppm	0.4705 ppm	0.5265 ppm	5.3553 ppm	0.4938 ppm
Recovery Percentage 1	98.353 %	99.329 %	96.689 %	95.129 %	105.042 %	107.577 %	99.256 %
Concentration RSD	1.5 %	1.0 %	1.3 %	1.1 %	0.5 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4821 ppm	0.4996 ppm	0.4801 ppm	10.6804 ppm	0.5029 ppm	0.4780 ppm	0.4857 ppm
Concentration per Run 1	0.4904 ppm	0.4994 ppm	0.4813 ppm	10.6640 ppm	0.5090 ppm	0.4781 ppm	0.4945 ppm
Concentration per Run 2	0.4824 ppm	0.5004 ppm	0.4784 ppm	10.7125 ppm	0.5012 ppm	0.4788 ppm	0.4816 ppm
Concentration per Run 3	0.4734 ppm	0.4992 ppm	0.4807 ppm	10.6647 ppm	0.4984 ppm	0.4770 ppm	0.4810 ppm
Recovery Percentage 1	96.421 %	99.930 %	96.024 %	106.804 %	100.576 %	95.598 %	97.146 %
Concentration RSD	1.8 %	0.1 %	0.3 %	0.3 %	1.1 %	0.2 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4739 ppm	5.0524 ppm	0.5145 ppm	0.4903 ppm	0.4928 ppm	0.4724 ppm	0.4838 ppm
Concentration per Run 1	0.4757 ppm	5.1268 ppm	0.5207 ppm	0.4913 ppm	0.5010 ppm	0.4712 ppm	0.4903 ppm
Concentration per Run 2	0.4755 ppm	5.0301 ppm	0.5138 ppm	0.4906 ppm	0.4904 ppm	0.4717 ppm	0.4830 ppm
Concentration per Run 3	0.4705 ppm	5.0002 ppm	0.5091 ppm	0.4890 ppm	0.4869 ppm	0.4742 ppm	0.4783 ppm
Recovery Percentage 1	94.782 %	96.235 %	102.909 %	98.057 %	98.553 %	94.476 %	96.770 %
Concentration RSD	0.6 %	1.3 %	1.1 %	0.2 %	1.5 %	0.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5029 ppm	104.7027 %	102.0072 %	103.3673 %	99.2128 %	98.5063 %	101.2247 %
Concentration per Run 1	0.5100 ppm	103.2930 %	102.0731 %	103.4352 %	97.7672 %	98.4950 %	101.4040 %
Concentration per Run 2	0.5014 ppm	104.9036 %	101.5632 %	103.6333 %	99.5683 %	98.3217 %	101.4501 %
Concentration per Run 3	0.4972 ppm	105.9115 %	102.3854 %	103.0333 %	100.3029 %	98.7023 %	100.8201 %
Recovery Percentage 1	100.574 %						
Concentration RSD	1.3 %	1.3 %	0.4 %	0.3 %	1.3 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 7:12:02 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0044 ppm	-0.0005 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0136 ppm
Concentration per Run 1	-0.0004 ppm	-0.0057 ppm	0.0004 ppm	0.0013 ppm	-0.0006 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 2	-0.0005 ppm	-0.0022 ppm	-0.0002 ppm	-0.0017 ppm	-0.0004 ppm	0.0001 ppm	0.0151 ppm
Concentration per Run 3	-0.0002 ppm	-0.0053 ppm	-0.0018 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0151 ppm
Recovery Percentage 1	-5.670 %	-4.381 %	-17.083 %	-0.273 %	-3.813 %	1.638 %	13.569 %
Concentration RSD	36.6 %	43.2 %	219.7 %	1,825.3 %	62.4 %	62.0 %	19.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0071 ppm	-0.0360 ppm	-0.0034 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0012 ppm	0.0077 ppm	-0.0451 ppm	-0.0044 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0061 ppm	-0.0449 ppm	-0.0033 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0076 ppm	-0.0180 ppm	-0.0024 ppm
Recovery Percentage 1	1.287 %	0.031 %	1.083 %	8.130 %	14.258 %	-1.439 %	-33.703 %
Concentration RSD	39.1 %	4,686.0 %	209.4 %	44.8 %	12.9 %	43.4 %	29.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0002 ppm	0.0006 ppm	0.0854 ppm	-0.0001 ppm	-0.0014 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0865 ppm	-0.0008 ppm	-0.0020 ppm	0.0018 ppm
Concentration per Run 2	0.0022 ppm	0.0001 ppm	0.0004 ppm	0.0866 ppm	-0.0002 ppm	-0.0001 ppm	-0.0015 ppm
Concentration per Run 3	0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0831 ppm	0.0006 ppm	-0.0022 ppm	0.0004 ppm
Recovery Percentage 1	0.894 %	1.554 %	1.163 %	4.270 %	-0.515 %	-13.963 %	0.468 %
Concentration RSD	130.2 %	39.6 %	32.1 %	2.3 %	563.1 %	82.8 %	691.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0003 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0018 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 2	-0.0011 ppm	-0.0009 ppm	0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	0.0006 ppm	-0.0003 ppm	0.0001 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	-10.718 %	0.022 %	0.724 %	-1.668 %	2.945 %	-1.466 %	-2.170 %
Concentration RSD	68.5 %	785.8 %	74.9 %	61.8 %	58.9 %	203.8 %	99.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	98.0007 %	98.3622 %	99.8272 %	99.9654 %	99.3998 %	102.6221 %
Concentration per Run 1	0.0014 ppm	95.9248 %	97.9499 %	99.8018 %	98.8329 %	99.5878 %	102.9943 %
Concentration per Run 2	0.0012 ppm	99.0611 %	98.7338 %	99.6872 %	100.9442 %	99.8098 %	102.4205 %
Concentration per Run 3	0.0012 ppm	99.0163 %	98.4029 %	99.9926 %	100.1191 %	98.8018 %	102.4514 %
Recovery Percentage 1	25.467 %						
Concentration RSD	9.8 %	1.8 %	0.4 %	0.2 %	1.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433375-06 WG1935889
Analysis started at: 6/19/2024 7:16:23 PM
Rack 3
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0147 ppm	-0.0006 ppm	0.0132 ppm	0.0362 ppm	0.0000 ppm	13.6450 ppm
Concentration per Run 1	-0.0006 ppm	0.0151 ppm	-0.0019 ppm	0.0134 ppm	0.0360 ppm	0.0000 ppm	13.6467 ppm
Concentration per Run 2	-0.0008 ppm	0.0137 ppm	0.0009 ppm	0.0134 ppm	0.0363 ppm	0.0000 ppm	13.5956 ppm
Concentration per Run 3	-0.0006 ppm	0.0154 ppm	-0.0008 ppm	0.0127 ppm	0.0361 ppm	0.0000 ppm	13.6926 ppm
Concentration RSD	12.8 %	6.4 %	232.3 %	3.3 %	0.5 %	69.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0038 ppm	0.0010 ppm	0.0285 ppm	1.1220 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0039 ppm	0.0010 ppm	0.0286 ppm	1.1372 ppm	0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0041 ppm	0.0013 ppm	0.0277 ppm	1.1185 ppm	0.0017 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0033 ppm	0.0006 ppm	0.0292 ppm	1.1103 ppm	-0.0023 ppm
Concentration RSD	56.8 %	114.8 %	11.6 %	33.7 %	2.5 %	1.2 %	1,372.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5924 ppm	0.0011 ppm	-0.0004 ppm	14.3486 ppm	0.0041 ppm	-0.0016 ppm	-0.0028 ppm
Concentration per Run 1	5.7285 ppm	0.0010 ppm	-0.0003 ppm	14.4074 ppm	0.0045 ppm	-0.0008 ppm	-0.0012 ppm
Concentration per Run 2	5.5713 ppm	0.0012 ppm	-0.0006 ppm	14.3075 ppm	0.0039 ppm	-0.0022 ppm	-0.0050 ppm
Concentration per Run 3	5.4774 ppm	0.0012 ppm	-0.0003 ppm	14.3310 ppm	0.0040 ppm	-0.0019 ppm	-0.0021 ppm
Concentration RSD	2.3 %	9.0 %	49.6 %	0.4 %	7.6 %	45.8 %	72.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	9.9398 ppm	-0.0027 ppm	0.0795 ppm	0.0013 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 1	-0.0007 ppm	10.2028 ppm	-0.0021 ppm	0.0791 ppm	0.0012 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	-0.0013 ppm	9.8758 ppm	-0.0029 ppm	0.0799 ppm	0.0017 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	9.7407 ppm	-0.0031 ppm	0.0793 ppm	0.0012 ppm	-0.0023 ppm	0.0002 ppm
Concentration RSD	131.0 %	2.4 %	20.6 %	0.5 %	22.5 %	113.6 %	42.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0108 ppm	98.9056 %	100.0092 %	99.6614 %	100.8968 %	100.4841 %	102.9341 %
Concentration per Run 1	0.0110 ppm	96.6602 %	99.3227 %	98.8874 %	99.7167 %	99.9968 %	102.7162 %
Concentration per Run 2	0.0106 ppm	99.3103 %	100.6189 %	99.9062 %	101.2033 %	100.8829 %	103.3235 %
Concentration per Run 3	0.0107 ppm	100.7465 %	100.0859 %	100.1906 %	101.7702 %	100.5725 %	102.7627 %
Concentration RSD	2.0 %	2.1 %	0.7 %	0.7 %	1.1 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433375-07 WG1935889
Analysis started at: 6/19/2024 7:20:24 PM
Rack 3
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0052 ppm	-0.0004 ppm	0.0087 ppm	0.0179 ppm	0.0001 ppm	8.9949 ppm
Concentration per Run 1	-0.0003 ppm	-0.0065 ppm	0.0007 ppm	0.0100 ppm	0.0179 ppm	0.0001 ppm	9.0165 ppm
Concentration per Run 2	-0.0007 ppm	-0.0042 ppm	0.0005 ppm	0.0064 ppm	0.0177 ppm	0.0001 ppm	9.0079 ppm
Concentration per Run 3	-0.0009 ppm	-0.0048 ppm	-0.0022 ppm	0.0095 ppm	0.0181 ppm	0.0000 ppm	8.9605 ppm
Concentration RSD	53.9 %	22.9 %	437.4 %	22.5 %	1.2 %	19.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0057 ppm	1.3303 ppm	-0.0028 ppm
Concentration per Run 1	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0013 ppm	0.0069 ppm	1.3428 ppm	-0.0040 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0009 ppm	0.0011 ppm	0.0047 ppm	1.3388 ppm	-0.0025 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0012 ppm	0.0054 ppm	1.3092 ppm	-0.0018 ppm
Concentration RSD	32.7 %	230.6 %	90.4 %	9.3 %	19.8 %	1.4 %	39.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.3745 ppm	0.0014 ppm	-0.0007 ppm	8.5412 ppm	-0.0001 ppm	-0.0011 ppm	-0.0049 ppm
Concentration per Run 1	1.4029 ppm	0.0013 ppm	-0.0004 ppm	8.5651 ppm	-0.0005 ppm	-0.0002 ppm	-0.0054 ppm
Concentration per Run 2	1.3730 ppm	0.0017 ppm	-0.0012 ppm	8.5632 ppm	0.0001 ppm	-0.0010 ppm	-0.0050 ppm
Concentration per Run 3	1.3477 ppm	0.0013 ppm	-0.0006 ppm	8.4953 ppm	0.0000 ppm	-0.0022 ppm	-0.0043 ppm
Concentration RSD	2.0 %	15.3 %	51.4 %	0.5 %	255.2 %	88.2 %	10.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.2683 ppm	-0.0023 ppm	0.0327 ppm	0.0009 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 1	-0.0008 ppm	4.3647 ppm	-0.0023 ppm	0.0328 ppm	0.0010 ppm	0.0014 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	4.2511 ppm	-0.0029 ppm	0.0329 ppm	0.0008 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0005 ppm	4.1892 ppm	-0.0018 ppm	0.0324 ppm	0.0009 ppm	0.0013 ppm	-0.0004 ppm
Concentration RSD	141.1 %	2.1 %	22.1 %	0.8 %	11.1 %	21.6 %	115.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	99.5850 %	100.1707 %	100.9686 %	101.4302 %	100.7960 %	103.8300 %
Concentration per Run 1	0.0014 ppm	97.8337 %	99.4391 %	100.5279 %	100.6355 %	100.3497 %	103.9454 %
Concentration per Run 2	0.0016 ppm	99.8761 %	99.6157 %	101.1537 %	101.4784 %	100.3083 %	103.6777 %
Concentration per Run 3	0.0014 ppm	101.0452 %	101.4574 %	101.2243 %	102.1768 %	101.7301 %	103.8669 %
Concentration RSD	7.0 %	1.6 %	1.1 %	0.4 %	0.8 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433375-08 WG1935889
Analysis started at: 6/19/2024 7:24:25 PM
Rack 3
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0081 ppm	-0.0004 ppm	0.0046 ppm	0.0139 ppm	0.0000 ppm	11.2214 ppm
Concentration per Run 1	-0.0006 ppm	-0.0115 ppm	-0.0023 ppm	0.0044 ppm	0.0141 ppm	0.0000 ppm	11.2670 ppm
Concentration per Run 2	-0.0005 ppm	-0.0084 ppm	0.0018 ppm	0.0040 ppm	0.0136 ppm	0.0000 ppm	11.2176 ppm
Concentration per Run 3	-0.0003 ppm	-0.0043 ppm	-0.0006 ppm	0.0054 ppm	0.0139 ppm	0.0001 ppm	11.1795 ppm
Concentration RSD	26.4 %	44.9 %	510.0 %	15.7 %	1.6 %	133.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0031 ppm	0.0008 ppm	0.0098 ppm	0.9398 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0027 ppm	0.0009 ppm	0.0096 ppm	0.9585 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0033 ppm	0.0005 ppm	0.0084 ppm	0.9344 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0034 ppm	0.0008 ppm	0.0113 ppm	0.9266 ppm	-0.0002 ppm
Concentration RSD	98.3 %	80.6 %	12.5 %	28.1 %	15.3 %	1.8 %	56.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5422 ppm	0.0002 ppm	-0.0007 ppm	9.0188 ppm	0.0000 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 1	5.6795 ppm	0.0001 ppm	-0.0011 ppm	9.0676 ppm	0.0003 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 2	5.5236 ppm	0.0000 ppm	-0.0006 ppm	9.0299 ppm	0.0005 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 3	5.4236 ppm	0.0005 ppm	-0.0004 ppm	8.9590 ppm	-0.0008 ppm	-0.0016 ppm	-0.0010 ppm
Concentration RSD	2.3 %	123.9 %	50.8 %	0.6 %	1,834.8 %	108.5 %	59.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	9.7602 ppm	-0.0021 ppm	0.0461 ppm	0.0007 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0012 ppm	9.9933 ppm	-0.0031 ppm	0.0463 ppm	0.0009 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 2	0.0008 ppm	9.7152 ppm	-0.0014 ppm	0.0461 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 3	-0.0008 ppm	9.5723 ppm	-0.0019 ppm	0.0459 ppm	0.0006 ppm	0.0011 ppm	0.0002 ppm
Concentration RSD	256.0 %	2.2 %	42.5 %	0.4 %	41.0 %	418.4 %	77.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	98.8351 %	99.6766 %	100.0543 %	100.9373 %	100.2389 %	103.1909 %
Concentration per Run 1	0.0009 ppm	96.5376 %	99.0793 %	99.7386 %	100.0725 %	100.0564 %	103.1932 %
Concentration per Run 2	0.0010 ppm	99.3021 %	99.3654 %	100.2061 %	101.1274 %	99.6997 %	103.2243 %
Concentration per Run 3	0.0008 ppm	100.6656 %	100.5851 %	100.2182 %	101.6121 %	100.9607 %	103.1551 %
Concentration RSD	10.9 %	2.1 %	0.8 %	0.3 %	0.8 %	0.6 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433501-07 WG1935889
Analysis started at: 6/19/2024 7:28:28 PM
Rack 3
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.2045 ppm	-0.0004 ppm	0.0108 ppm	0.0124 ppm	0.0000 ppm	7.9599 ppm
Concentration per Run 1	-0.0006 ppm	0.2038 ppm	-0.0001 ppm	0.0117 ppm	0.0124 ppm	0.0000 ppm	7.9847 ppm
Concentration per Run 2	-0.0004 ppm	0.2034 ppm	0.0000 ppm	0.0115 ppm	0.0125 ppm	0.0000 ppm	7.9476 ppm
Concentration per Run 3	-0.0011 ppm	0.2064 ppm	-0.0011 ppm	0.0092 ppm	0.0123 ppm	0.0001 ppm	7.9475 ppm
Concentration RSD	51.4 %	0.8 %	156.4 %	13.0 %	1.0 %	78.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0065 ppm	0.0387 ppm	1.0212 ppm	15.5176 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0067 ppm	0.0398 ppm	1.0239 ppm	15.6177 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0065 ppm	0.0390 ppm	1.0187 ppm	15.4873 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0065 ppm	0.0373 ppm	1.0209 ppm	15.4477 ppm	-0.0014 ppm
Concentration RSD	18.9 %	30.8 %	1.5 %	3.2 %	0.3 %	0.6 %	2,781.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.7162 ppm	0.0369 ppm	-0.0001 ppm	52.4332 ppm	0.0085 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	1.7512 ppm	0.0368 ppm	0.0002 ppm	52.4743 ppm	0.0083 ppm	-0.0006 ppm	-0.0028 ppm
Concentration per Run 2	1.7147 ppm	0.0366 ppm	-0.0006 ppm	52.4252 ppm	0.0088 ppm	0.0003 ppm	-0.0035 ppm
Concentration per Run 3	1.6828 ppm	0.0372 ppm	0.0002 ppm	52.4000 ppm	0.0084 ppm	0.0003 ppm	0.0037 ppm
Concentration RSD	2.0 %	0.7 %	576.6 %	0.1 %	3.1 %	3,107.6 %	446.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	1.4616 ppm	0.0003 ppm	0.0372 ppm	0.0039 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	-0.0005 ppm	1.4917 ppm	0.0000 ppm	0.0372 ppm	0.0040 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	1.4562 ppm	0.0003 ppm	0.0374 ppm	0.0039 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	1.4368 ppm	0.0006 ppm	0.0371 ppm	0.0039 ppm	0.0008 ppm	0.0007 ppm
Concentration RSD	62.6 %	1.9 %	101.8 %	0.4 %	1.8 %	1,029.5 %	5.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1511 ppm	101.1175 %	103.0036 %	100.6510 %	102.4169 %	102.8093 %	103.3947 %
Concentration per Run 1	0.1540 ppm	99.6233 %	102.7059 %	99.7795 %	102.2296 %	102.7103 %	102.8785 %
Concentration per Run 2	0.1507 ppm	100.8980 %	103.1176 %	100.8578 %	102.1936 %	102.9297 %	103.6161 %
Concentration per Run 3	0.1485 ppm	102.8311 %	103.1873 %	101.3158 %	102.8275 %	102.7879 %	103.6895 %
Concentration RSD	1.8 %	1.6 %	0.3 %	0.8 %	0.3 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433502-02 WG1935889
Analysis started at: 6/19/2024 7:32:28 PM
Rack 3
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0011 ppm	0.0188 ppm	0.0249 ppm	0.5520 ppm	0.1990 ppm	0.0001 ppm	172.6168 ppm
Concentration per Run 1	-0.0013 ppm	0.0146 ppm	0.0244 ppm	0.5631 ppm	0.1998 ppm	0.0001 ppm	173.2534 ppm
Concentration per Run 2	-0.0009 ppm	0.0149 ppm	0.0261 ppm	0.5493 ppm	0.1988 ppm	0.0001 ppm	172.9036 ppm
Concentration per Run 3	-0.0011 ppm	0.0268 ppm	0.0241 ppm	0.5437 ppm	0.1984 ppm	0.0001 ppm	171.6933 ppm
Concentration RSD	19.4 %	37.0 %	4.4 %	1.8 %	0.4 %	41.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0082 ppm	0.0008 ppm	0.0008 ppm	20.1816 ppm	214.6525 ppm	0.0208 ppm
Concentration per Run 1	-0.0001 ppm	0.0080 ppm	0.0009 ppm	0.0008 ppm	20.2715 ppm	216.1799 ppm	0.0235 ppm
Concentration per Run 2	0.0002 ppm	0.0081 ppm	0.0011 ppm	0.0008 ppm	20.2735 ppm	214.1856 ppm	0.0194 ppm
Concentration per Run 3	0.0000 ppm	0.0083 ppm	0.0004 ppm	0.0007 ppm	19.9997 ppm	213.5918 ppm	0.0194 ppm
Concentration RSD	486.6 %	2.0 %	41.1 %	11.0 %	0.8 %	0.6 %	11.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	191.9610 ppm	6.6805 ppm	-0.0005 ppm	77.8660 ppm	0.0189 ppm	-0.0017 ppm	-0.0025 ppm
Concentration per Run 1	197.3134 ppm	6.6957 ppm	-0.0001 ppm	78.2550 ppm	0.0197 ppm	-0.0014 ppm	-0.0034 ppm
Concentration per Run 2	190.7783 ppm	6.6923 ppm	-0.0004 ppm	77.8953 ppm	0.0185 ppm	-0.0020 ppm	-0.0054 ppm
Concentration per Run 3	187.7912 ppm	6.6534 ppm	-0.0010 ppm	77.4476 ppm	0.0185 ppm	-0.0017 ppm	0.0013 ppm
Concentration RSD	2.5 %	0.4 %	89.6 %	0.5 %	3.6 %	18.5 %	135.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	12.0004 ppm	-0.0019 ppm	1.4084 ppm	0.0598 ppm	0.0004 ppm	0.0069 ppm
Concentration per Run 1	-0.0013 ppm	12.2773 ppm	-0.0022 ppm	1.4179 ppm	0.0616 ppm	0.0005 ppm	0.0070 ppm
Concentration per Run 2	-0.0011 ppm	11.9621 ppm	-0.0018 ppm	1.4137 ppm	0.0589 ppm	0.0008 ppm	0.0067 ppm
Concentration per Run 3	-0.0029 ppm	11.7618 ppm	-0.0015 ppm	1.3937 ppm	0.0588 ppm	-0.0002 ppm	0.0068 ppm
Concentration RSD	54.5 %	2.2 %	19.6 %	0.9 %	2.6 %	142.5 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	97.4762 %	100.1101 %	92.9255 %	98.1633 %	99.3520 %	97.5922 %
Concentration per Run 1	0.0044 ppm	95.0898 %	99.4659 %	92.6700 %	97.2562 %	99.2505 %	97.6745 %
Concentration per Run 2	0.0040 ppm	97.9401 %	99.6206 %	92.9832 %	98.5227 %	98.7373 %	97.6774 %
Concentration per Run 3	0.0040 ppm	99.3987 %	101.2438 %	93.1234 %	98.7111 %	100.0684 %	97.4248 %
Concentration RSD	5.5 %	2.2 %	1.0 %	0.2 %	0.8 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433529-01 WG1935889
Analysis started at: 6/19/2024 7:36:29 PM
Rack 3
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	2.2720 ppm	0.0045 ppm	0.0326 ppm	0.0656 ppm	0.0002 ppm	42.9891 ppm
Concentration per Run 1	-0.0004 ppm	2.2673 ppm	0.0023 ppm	0.0335 ppm	0.0654 ppm	0.0002 ppm	43.0190 ppm
Concentration per Run 2	-0.0003 ppm	2.2747 ppm	0.0049 ppm	0.0331 ppm	0.0657 ppm	0.0001 ppm	43.0542 ppm
Concentration per Run 3	-0.0008 ppm	2.2739 ppm	0.0063 ppm	0.0313 ppm	0.0658 ppm	0.0001 ppm	42.8940 ppm
Concentration RSD	49.8 %	0.2 %	45.8 %	3.5 %	0.3 %	37.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0030 ppm	0.0091 ppm	0.0558 ppm	27.6580 ppm	21.8299 ppm	0.0056 ppm
Concentration per Run 1	0.0006 ppm	0.0028 ppm	0.0093 ppm	0.0568 ppm	27.6427 ppm	21.8542 ppm	0.0056 ppm
Concentration per Run 2	0.0006 ppm	0.0031 ppm	0.0090 ppm	0.0557 ppm	27.6846 ppm	21.7816 ppm	0.0056 ppm
Concentration per Run 3	0.0007 ppm	0.0032 ppm	0.0090 ppm	0.0549 ppm	27.6467 ppm	21.8540 ppm	0.0057 ppm
Concentration RSD	8.3 %	6.5 %	1.6 %	1.8 %	0.1 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.5542 ppm	0.2935 ppm	0.0000 ppm	57.9517 ppm	0.0110 ppm	0.0276 ppm	0.0007 ppm
Concentration per Run 1	15.8654 ppm	0.2945 ppm	0.0000 ppm	58.0233 ppm	0.0112 ppm	0.0283 ppm	0.0015 ppm
Concentration per Run 2	15.5052 ppm	0.2934 ppm	-0.0004 ppm	58.0534 ppm	0.0106 ppm	0.0271 ppm	0.0008 ppm
Concentration per Run 3	15.2920 ppm	0.2926 ppm	0.0004 ppm	57.7784 ppm	0.0112 ppm	0.0272 ppm	-0.0002 ppm
Concentration RSD	1.9 %	0.3 %	2,377.3 %	0.3 %	3.4 %	2.4 %	127.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	4.6402 ppm	-0.0004 ppm	0.1997 ppm	0.0796 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 1	-0.0013 ppm	4.7333 ppm	-0.0004 ppm	0.1999 ppm	0.0810 ppm	-0.0006 ppm	0.0084 ppm
Concentration per Run 2	0.0005 ppm	4.6217 ppm	-0.0010 ppm	0.2001 ppm	0.0794 ppm	0.0014 ppm	0.0083 ppm
Concentration per Run 3	0.0003 ppm	4.5657 ppm	0.0003 ppm	0.1991 ppm	0.0786 ppm	-0.0006 ppm	0.0084 ppm
Concentration RSD	519.4 %	1.8 %	178.8 %	0.3 %	1.5 %	2,518.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1747 ppm	100.9144 %	100.9727 %	99.7352 %	101.1400 %	100.3161 %	102.3859 %
Concentration per Run 1	1.1976 ppm	99.5259 %	101.2289 %	99.2958 %	100.5434 %	100.9120 %	102.3470 %
Concentration per Run 2	1.1726 ppm	100.8258 %	100.5344 %	100.0519 %	101.0004 %	99.8301 %	102.5837 %
Concentration per Run 3	1.1539 ppm	102.3914 %	101.1547 %	99.8579 %	101.8761 %	100.2062 %	102.2269 %
Concentration RSD	1.9 %	1.4 %	0.4 %	0.4 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 7:40:29 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4848 ppm	0.4714 ppm	0.4675 ppm	0.4751 ppm	0.4832 ppm	0.4998 ppm	0.4868 ppm
Concentration per Run 1	0.4910 ppm	0.4654 ppm	0.4683 ppm	0.4816 ppm	0.4862 ppm	0.4985 ppm	0.4912 ppm
Concentration per Run 2	0.4834 ppm	0.4759 ppm	0.4665 ppm	0.4731 ppm	0.4815 ppm	0.5009 ppm	0.4844 ppm
Concentration per Run 3	0.4799 ppm	0.4729 ppm	0.4678 ppm	0.4706 ppm	0.4820 ppm	0.5001 ppm	0.4848 ppm
Recovery Percentage 1	96.953 %	94.280 %	93.503 %	95.024 %	96.649 %	99.969 %	97.355 %
Concentration RSD	1.2 %	1.1 %	0.2 %	1.2 %	0.5 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4860 ppm	0.4934 ppm	0.4804 ppm	0.4707 ppm	0.5153 ppm	5.3643 ppm	0.4889 ppm
Concentration per Run 1	0.4931 ppm	0.4982 ppm	0.4865 ppm	0.4755 ppm	0.5191 ppm	5.4231 ppm	0.4914 ppm
Concentration per Run 2	0.4847 ppm	0.4940 ppm	0.4787 ppm	0.4708 ppm	0.5120 ppm	5.3542 ppm	0.4877 ppm
Concentration per Run 3	0.4801 ppm	0.4881 ppm	0.4758 ppm	0.4659 ppm	0.5147 ppm	5.3155 ppm	0.4877 ppm
Recovery Percentage 1	97.197 %	98.687 %	96.071 %	94.140 %	103.053 %	107.285 %	97.788 %
Concentration RSD	1.4 %	1.0 %	1.2 %	1.0 %	0.7 %	1.0 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4797 ppm	0.4947 ppm	0.4739 ppm	10.6157 ppm	0.4971 ppm	0.4751 ppm	0.4701 ppm
Concentration per Run 1	0.4840 ppm	0.4949 ppm	0.4768 ppm	10.5921 ppm	0.5039 ppm	0.4758 ppm	0.4756 ppm
Concentration per Run 2	0.4802 ppm	0.4943 ppm	0.4735 ppm	10.6517 ppm	0.4970 ppm	0.4751 ppm	0.4733 ppm
Concentration per Run 3	0.4750 ppm	0.4950 ppm	0.4714 ppm	10.6034 ppm	0.4903 ppm	0.4743 ppm	0.4616 ppm
Recovery Percentage 1	95.946 %	98.950 %	94.782 %	106.157 %	99.416 %	95.017 %	94.026 %
Concentration RSD	0.9 %	0.1 %	0.6 %	0.3 %	1.4 %	0.2 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4682 ppm	5.0097 ppm	0.5063 ppm	0.4845 ppm	0.4858 ppm	0.4691 ppm	0.4813 ppm
Concentration per Run 1	0.4682 ppm	5.0633 ppm	0.5139 ppm	0.4842 ppm	0.4958 ppm	0.4697 ppm	0.4891 ppm
Concentration per Run 2	0.4687 ppm	5.0005 ppm	0.5071 ppm	0.4845 ppm	0.4833 ppm	0.4678 ppm	0.4809 ppm
Concentration per Run 3	0.4678 ppm	4.9652 ppm	0.4978 ppm	0.4847 ppm	0.4783 ppm	0.4698 ppm	0.4740 ppm
Recovery Percentage 1	93.648 %	95.423 %	101.256 %	96.892 %	97.155 %	93.822 %	96.270 %
Concentration RSD	0.1 %	1.0 %	1.6 %	0.1 %	1.9 %	0.2 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4987 ppm	104.2099 %	102.3243 %	103.0699 %	99.4270 %	98.8373 %	101.2387 %
Concentration per Run 1	0.5071 ppm	102.6170 %	102.0828 %	103.0905 %	97.9518 %	98.7707 %	101.3652 %
Concentration per Run 2	0.4980 ppm	104.5555 %	102.1293 %	102.7541 %	99.8243 %	98.4337 %	101.0340 %
Concentration per Run 3	0.4910 ppm	105.4570 %	102.7608 %	103.3650 %	100.5050 %	99.3076 %	101.3170 %
Recovery Percentage 1	99.737 %						
Concentration RSD	1.6 %	1.4 %	0.4 %	0.3 %	1.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 7:44:29 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	-0.0093 ppm	0.0005 ppm	-0.0006 ppm	-0.0004 ppm	0.0001 ppm	0.0064 ppm
Concentration per Run 1	-0.0006 ppm	-0.0102 ppm	0.0002 ppm	-0.0016 ppm	-0.0003 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	-0.0008 ppm	-0.0081 ppm	0.0003 ppm	-0.0011 ppm	-0.0005 ppm	0.0001 ppm	0.0085 ppm
Concentration per Run 3	-0.0010 ppm	-0.0097 ppm	0.0009 ppm	0.0009 ppm	-0.0003 ppm	0.0001 ppm	0.0068 ppm
Recovery Percentage 1	-11.730 %	-9.329 %	15.620 %	-1.937 %	-3.742 %	1.435 %	6.437 %
Concentration RSD	22.2 %	12.0 %	77.5 %	229.7 %	35.5 %	75.3 %	36.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0031 ppm	-0.0540 ppm	-0.0040 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0024 ppm	-0.0608 ppm	-0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0035 ppm	-0.0414 ppm	-0.0045 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0033 ppm	-0.0599 ppm	-0.0040 ppm
Recovery Percentage 1	1.692 %	1.398 %	1.310 %	5.567 %	6.114 %	-2.161 %	-40.000 %
Concentration RSD	91.4 %	29.4 %	170.1 %	48.9 %	17.6 %	20.3 %	12.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0001 ppm	0.0004 ppm	0.0990 ppm	-0.0003 ppm	-0.0009 ppm	-0.0004 ppm
Concentration per Run 1	0.0024 ppm	0.0002 ppm	0.0002 ppm	0.0999 ppm	0.0000 ppm	-0.0004 ppm	-0.0019 ppm
Concentration per Run 2	-0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0990 ppm	0.0002 ppm	-0.0010 ppm	-0.0015 ppm
Concentration per Run 3	0.0009 ppm	0.0000 ppm	0.0006 ppm	0.0980 ppm	-0.0012 ppm	-0.0013 ppm	0.0020 ppm
Recovery Percentage 1	0.865 %	0.586 %	0.736 %	4.950 %	-1.394 %	-8.949 %	-0.866 %
Concentration RSD	176.9 %	217.9 %	53.7 %	1.0 %	206.9 %	52.0 %	496.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0002 ppm	0.0004 ppm	-0.0001 ppm	0.0006 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0006 ppm	0.0003 ppm	0.0009 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0029 ppm	-0.0005 ppm	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	-0.0001 ppm	-0.0004 ppm
Recovery Percentage 1	-7.536 %	-0.044 %	0.748 %	-1.025 %	5.763 %	-0.599 %	-1.937 %
Concentration RSD	246.8 %	203.9 %	170.4 %	17.5 %	27.1 %	213.1 %	107.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	98.5414 %	97.8719 %	100.1159 %	100.3609 %	98.7988 %	102.7735 %
Concentration per Run 1	0.0007 ppm	96.6002 %	97.9709 %	100.1007 %	99.1762 %	98.8632 %	103.3017 %
Concentration per Run 2	0.0005 ppm	99.2612 %	97.8806 %	100.1831 %	101.0900 %	98.8439 %	102.8546 %
Concentration per Run 3	0.0006 ppm	99.7629 %	97.7641 %	100.0641 %	100.8165 %	98.6892 %	102.1644 %
Recovery Percentage 1	11.470 %						
Concentration RSD	18.7 %	1.7 %	0.1 %	0.1 %	1.0 %	0.1 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xWG1936007-1 WG1936007
Analysis started at: 6/19/2024 7:52:18 PM
Rack 3
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	-0.0089 ppm	0.0005 ppm	-0.0005 ppm	-0.0006 ppm	0.0000 ppm	0.0132 ppm
Concentration per Run 1	-0.0007 ppm	-0.0166 ppm	0.0003 ppm	-0.0009 ppm	-0.0007 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 2	-0.0014 ppm	-0.0064 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 3	-0.0004 ppm	-0.0037 ppm	0.0009 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0123 ppm
Recovery Percentage 1	-11.882 %	-8.922 %	15.015 %	-1.660 %	-5.868 %	0.475 %	13.239 %
Concentration RSD	58.0 %	76.5 %	90.0 %	100.3 %	28.5 %	168.0 %	5.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0028 ppm	-0.0548 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0020 ppm	-0.0722 ppm	-0.0030 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0026 ppm	-0.0633 ppm	-0.0047 ppm
Concentration per Run 3	0.0000 ppm	-0.0008 ppm	0.0005 ppm	-0.0003 ppm	0.0040 ppm	-0.0288 ppm	-0.0045 ppm
Recovery Percentage 1	0.573 %	-2.408 %	2.152 %	-3.007 %	5.672 %	-2.191 %	-40.738 %
Concentration RSD	77.3 %	61.5 %	130.1 %	15.0 %	35.9 %	41.9 %	22.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0000 ppm	-0.0007 ppm	0.0521 ppm	-0.0003 ppm	-0.0010 ppm	-0.0016 ppm
Concentration per Run 1	0.0007 ppm	-0.0001 ppm	-0.0006 ppm	0.0462 ppm	-0.0005 ppm	-0.0013 ppm	-0.0007 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	-0.0010 ppm	0.0539 ppm	-0.0002 ppm	-0.0004 ppm	-0.0019 ppm
Concentration per Run 3	0.0014 ppm	0.0000 ppm	-0.0005 ppm	0.0563 ppm	-0.0003 ppm	-0.0012 ppm	-0.0021 ppm
Recovery Percentage 1	0.955 %	-0.079 %	-1.344 %	2.607 %	-1.284 %	-9.585 %	-3.155 %
Concentration RSD	38.3 %	1,400.2 %	40.8 %	10.1 %	48.5 %	52.8 %	50.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0005 ppm	-0.0007 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 1	-0.0003 ppm	0.0002 ppm	-0.0009 ppm	-0.0002 ppm	0.0002 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 2	-0.0009 ppm	-0.0011 ppm	-0.0011 ppm	-0.0001 ppm	0.0006 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 3	-0.0026 ppm	0.0023 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0011 ppm	-0.0004 ppm
Recovery Percentage 1	-12.668 %	0.091 %	-1.312 %	-1.328 %	5.077 %	5.615 %	-3.153 %
Concentration RSD	97.3 %	377.2 %	86.6 %	30.0 %	51.3 %	33.5 %	28.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	116.4698 %	105.8175 %	113.3954 %	107.7090 %	101.4803 %	108.0596 %
Concentration per Run 1	0.0009 ppm	116.7402 %	105.7398 %	112.9568 %	107.8240 %	100.9266 %	107.4979 %
Concentration per Run 2	0.0008 ppm	116.1492 %	106.0821 %	113.3019 %	107.2220 %	101.8830 %	107.9365 %
Concentration per Run 3	0.0009 ppm	116.5199 %	105.6306 %	113.9276 %	108.0809 %	101.6312 %	108.7445 %
Recovery Percentage 1	17.527 %						
Concentration RSD	8.2 %	0.3 %	0.2 %	0.4 %	0.4 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xWG1936007-2 WG1936007
Analysis started at: 6/19/2024 7:56:38 PM
Rack 3
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0491 ppm	1.9018 ppm	0.1165 ppm	0.9701 ppm	1.9174 ppm	0.0496 ppm	9.9027 ppm
Concentration per Run 1	0.0504 ppm	1.9127 ppm	0.1170 ppm	0.9871 ppm	1.9158 ppm	0.0497 ppm	9.9362 ppm
Concentration per Run 2	0.0491 ppm	1.9078 ppm	0.1164 ppm	0.9701 ppm	1.9250 ppm	0.0496 ppm	9.9089 ppm
Concentration per Run 3	0.0479 ppm	1.8850 ppm	0.1162 ppm	0.9532 ppm	1.9115 ppm	0.0495 ppm	9.8631 ppm
Concentration RSD	2.6 %	0.8 %	0.4 %	1.8 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0535 ppm	0.4941 ppm	0.1957 ppm	0.2456 ppm	1.0187 ppm	10.7532 ppm	-0.0050 ppm
Concentration per Run 1	0.0551 ppm	0.5053 ppm	0.1994 ppm	0.2509 ppm	1.0198 ppm	10.7814 ppm	-0.0057 ppm
Concentration per Run 2	0.0532 ppm	0.4921 ppm	0.1949 ppm	0.2448 ppm	1.0207 ppm	10.7495 ppm	-0.0051 ppm
Concentration per Run 3	0.0523 ppm	0.4850 ppm	0.1928 ppm	0.2410 ppm	1.0154 ppm	10.7287 ppm	-0.0041 ppm
Concentration RSD	2.6 %	2.1 %	1.7 %	2.0 %	0.3 %	0.2 %	16.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8949 ppm	0.5015 ppm	0.9250 ppm	10.8597 ppm	0.5006 ppm	0.5229 ppm	0.4238 ppm
Concentration per Run 1	10.1284 ppm	0.5032 ppm	0.9293 ppm	10.9160 ppm	0.5106 ppm	0.5244 ppm	0.4313 ppm
Concentration per Run 2	9.8558 ppm	0.5016 ppm	0.9255 ppm	10.8691 ppm	0.4991 ppm	0.5232 ppm	0.4186 ppm
Concentration per Run 3	9.7004 ppm	0.4997 ppm	0.9202 ppm	10.7940 ppm	0.4919 ppm	0.5212 ppm	0.4215 ppm
Concentration RSD	2.2 %	0.3 %	0.5 %	0.6 %	1.9 %	0.3 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1117 ppm	1.0577 ppm	0.9794 ppm	0.9488 ppm	0.9981 ppm	0.1160 ppm	0.4991 ppm
Concentration per Run 1	0.1117 ppm	1.0843 ppm	0.9995 ppm	0.9505 ppm	1.0186 ppm	0.1137 ppm	0.5109 ppm
Concentration per Run 2	0.1118 ppm	1.0504 ppm	0.9760 ppm	0.9504 ppm	0.9945 ppm	0.1163 ppm	0.4976 ppm
Concentration per Run 3	0.1115 ppm	1.0382 ppm	0.9626 ppm	0.9455 ppm	0.9811 ppm	0.1179 ppm	0.4889 ppm
Concentration RSD	0.1 %	2.3 %	1.9 %	0.3 %	1.9 %	1.8 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5103 ppm	101.3917 %	101.0032 %	100.6921 %	101.4410 %	99.5629 %	102.2220 %
Concentration per Run 1	0.5211 ppm	99.0714 %	100.2955 %	99.8137 %	100.1293 %	99.3507 %	101.6709 %
Concentration per Run 2	0.5081 ppm	101.9004 %	101.3197 %	100.9143 %	101.9078 %	99.9504 %	102.5298 %
Concentration per Run 3	0.5017 ppm	103.2031 %	101.3944 %	101.3482 %	102.2860 %	99.3876 %	102.4654 %
Concentration RSD	1.9 %	2.1 %	0.6 %	0.8 %	1.1 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2433120-02d10 WG1936007
Analysis started at: 6/19/2024 8:00:38 PM
Rack 3
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0169 ppm	0.0053 ppm	0.0180 ppm	0.0131 ppm	0.0000 ppm	0.3182 ppm
Concentration per Run 1	-0.0007 ppm	0.0121 ppm	0.0038 ppm	0.0193 ppm	0.0133 ppm	0.0000 ppm	0.3191 ppm
Concentration per Run 2	-0.0005 ppm	0.0223 ppm	0.0035 ppm	0.0178 ppm	0.0129 ppm	0.0001 ppm	0.3187 ppm
Concentration per Run 3	-0.0006 ppm	0.0164 ppm	0.0087 ppm	0.0168 ppm	0.0131 ppm	0.0000 ppm	0.3168 ppm
Concentration RSD	20.4 %	30.3 %	55.2 %	7.1 %	1.5 %	46.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0006 ppm	0.0016 ppm	0.0030 ppm	0.0223 ppm	0.9951 ppm	-0.0026 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	0.0018 ppm	0.0025 ppm	0.0225 ppm	1.0468 ppm	-0.0014 ppm
Concentration per Run 2	0.0002 ppm	0.0010 ppm	0.0011 ppm	0.0032 ppm	0.0220 ppm	0.9656 ppm	-0.0039 ppm
Concentration per Run 3	0.0003 ppm	0.0007 ppm	0.0018 ppm	0.0033 ppm	0.0223 ppm	0.9730 ppm	-0.0024 ppm
Concentration RSD	18.7 %	74.1 %	25.0 %	13.7 %	1.1 %	4.5 %	50.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0961 ppm	0.0030 ppm	0.0016 ppm	44.8838 ppm	0.0025 ppm	0.0023 ppm	0.0035 ppm
Concentration per Run 1	0.0981 ppm	0.0029 ppm	0.0013 ppm	44.8854 ppm	0.0023 ppm	0.0027 ppm	0.0034 ppm
Concentration per Run 2	0.0954 ppm	0.0029 ppm	0.0015 ppm	44.9889 ppm	0.0031 ppm	0.0018 ppm	0.0040 ppm
Concentration per Run 3	0.0949 ppm	0.0032 ppm	0.0020 ppm	44.7770 ppm	0.0021 ppm	0.0024 ppm	0.0033 ppm
Concentration RSD	1.8 %	6.5 %	23.8 %	0.2 %	21.9 %	20.3 %	10.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0877 ppm	1.3625 ppm	0.0328 ppm	0.0015 ppm	0.0009 ppm	-0.0680 ppm	-0.0001 ppm
Concentration per Run 1	0.0890 ppm	1.3698 ppm	0.0322 ppm	0.0015 ppm	0.0008 ppm	-0.0680 ppm	0.0000 ppm
Concentration per Run 2	0.0878 ppm	1.3610 ppm	0.0340 ppm	0.0016 ppm	0.0012 ppm	-0.0679 ppm	-0.0001 ppm
Concentration per Run 3	0.0863 ppm	1.3566 ppm	0.0320 ppm	0.0015 ppm	0.0008 ppm	-0.0682 ppm	-0.0002 ppm
Concentration RSD	1.5 %	0.5 %	3.4 %	3.0 %	27.7 %	0.2 %	114.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0711 ppm	103.7979 %	100.7521 %	97.1153 %	102.7642 %	98.7751 %	101.5813 %
Concentration per Run 1	0.0716 ppm	102.4879 %	100.6277 %	96.9390 %	101.9438 %	98.8409 %	101.9595 %
Concentration per Run 2	0.0712 ppm	104.0225 %	100.7984 %	97.1613 %	103.0538 %	98.8101 %	101.6535 %
Concentration per Run 3	0.0707 ppm	104.8834 %	100.8301 %	97.2456 %	103.2951 %	98.6744 %	101.1309 %
Concentration RSD	0.6 %	1.2 %	0.1 %	0.2 %	0.7 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2433303-01 WG1936007
Analysis started at: 6/19/2024 8:12:08 PM
Rack 3
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.3397 ppm	-0.0002 ppm	0.0023 ppm	0.0038 ppm	0.0001 ppm	7.6308 ppm
Concentration per Run 1	-0.0012 ppm	0.3338 ppm	-0.0015 ppm	0.0015 ppm	0.0039 ppm	0.0001 ppm	7.6434 ppm
Concentration per Run 2	-0.0002 ppm	0.3399 ppm	-0.0004 ppm	0.0026 ppm	0.0037 ppm	0.0000 ppm	7.6301 ppm
Concentration per Run 3	-0.0008 ppm	0.3453 ppm	0.0014 ppm	0.0028 ppm	0.0038 ppm	0.0001 ppm	7.6188 ppm
Concentration RSD	64.4 %	1.7 %	822.3 %	30.9 %	2.3 %	49.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0005 ppm	0.0007 ppm	0.0024 ppm	0.5919 ppm	0.7278 ppm	-0.0028 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0007 ppm	0.0025 ppm	0.5977 ppm	0.7440 ppm	-0.0041 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0024 ppm	0.5873 ppm	0.7230 ppm	-0.0028 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	0.0008 ppm	0.0023 ppm	0.5906 ppm	0.7164 ppm	-0.0015 ppm
Concentration RSD	3.9 %	22.3 %	26.4 %	5.5 %	0.9 %	2.0 %	47.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1373 ppm	0.0132 ppm	-0.0005 ppm	7.8242 ppm	0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	1.1546 ppm	0.0130 ppm	-0.0008 ppm	7.8351 ppm	0.0000 ppm	-0.0011 ppm	-0.0004 ppm
Concentration per Run 2	1.1382 ppm	0.0133 ppm	-0.0004 ppm	7.8138 ppm	0.0004 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	1.1192 ppm	0.0134 ppm	-0.0003 ppm	7.8238 ppm	0.0004 ppm	-0.0008 ppm	0.0012 ppm
Concentration RSD	1.6 %	1.7 %	45.1 %	0.1 %	76.3 %	94.0 %	1,897.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	7.6038 ppm	0.0014 ppm	0.0591 ppm	0.0215 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 1	-0.0009 ppm	7.7269 ppm	0.0007 ppm	0.0593 ppm	0.0217 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	-0.0033 ppm	7.5825 ppm	0.0020 ppm	0.0589 ppm	0.0215 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	-0.0021 ppm	7.5019 ppm	0.0014 ppm	0.0592 ppm	0.0213 ppm	0.0014 ppm	0.0006 ppm
Concentration RSD	55.9 %	1.5 %	45.1 %	0.3 %	1.0 %	151.2 %	12.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0068 ppm	101.3047 %	101.6652 %	102.2722 %	103.9950 %	102.4556 %	105.5325 %
Concentration per Run 1	0.0070 ppm	100.3498 %	101.9943 %	101.7464 %	104.2731 %	102.9135 %	105.3946 %
Concentration per Run 2	0.0067 ppm	101.1447 %	101.4583 %	102.5425 %	103.5553 %	102.1674 %	105.7645 %
Concentration per Run 3	0.0066 ppm	102.4197 %	101.5431 %	102.5276 %	104.1567 %	102.2858 %	105.4385 %
Concentration RSD	3.1 %	1.0 %	0.3 %	0.4 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xWG1936007-3 WG1936007
Analysis started at: 6/19/2024 8:16:14 PM
Rack 3
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0493 ppm	2.2084 ppm	0.1174 ppm	0.9906 ppm	1.9026 ppm	0.0494 ppm	17.3975 ppm
Concentration per Run 1	0.0508 ppm	2.2329 ppm	0.1193 ppm	1.0171 ppm	1.9234 ppm	0.0499 ppm	17.5751 ppm
Concentration per Run 2	0.0493 ppm	2.2158 ppm	0.1137 ppm	0.9922 ppm	1.9098 ppm	0.0497 ppm	17.4280 ppm
Concentration per Run 3	0.0478 ppm	2.1765 ppm	0.1191 ppm	0.9626 ppm	1.8746 ppm	0.0487 ppm	17.1894 ppm
Concentration RSD	3.0 %	1.3 %	2.7 %	2.8 %	1.3 %	1.3 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0535 ppm	0.4932 ppm	0.1962 ppm	0.2490 ppm	1.5327 ppm	11.4237 ppm	-0.0032 ppm
Concentration per Run 1	0.0549 ppm	0.5063 ppm	0.2013 ppm	0.2558 ppm	1.5519 ppm	11.5767 ppm	-0.0018 ppm
Concentration per Run 2	0.0536 ppm	0.4928 ppm	0.1961 ppm	0.2492 ppm	1.5368 ppm	11.4370 ppm	-0.0045 ppm
Concentration per Run 3	0.0521 ppm	0.4806 ppm	0.1911 ppm	0.2419 ppm	1.5094 ppm	11.2572 ppm	-0.0035 ppm
Concentration RSD	2.6 %	2.6 %	2.6 %	2.8 %	1.4 %	1.4 %	41.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.0653 ppm	0.5082 ppm	0.8891 ppm	18.4001 ppm	0.4990 ppm	0.5258 ppm	0.4075 ppm
Concentration per Run 1	11.3762 ppm	0.5142 ppm	0.9001 ppm	18.5796 ppm	0.5124 ppm	0.5291 ppm	0.4140 ppm
Concentration per Run 2	11.0668 ppm	0.5095 ppm	0.8897 ppm	18.4282 ppm	0.4995 ppm	0.5261 ppm	0.4120 ppm
Concentration per Run 3	10.7530 ppm	0.5008 ppm	0.8775 ppm	18.1926 ppm	0.4852 ppm	0.5220 ppm	0.3965 ppm
Concentration RSD	2.8 %	1.3 %	1.3 %	1.1 %	2.7 %	0.7 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1133 ppm	9.0843 ppm	0.9657 ppm	0.9961 ppm	1.0136 ppm	0.1176 ppm	0.4984 ppm
Concentration per Run 1	0.1094 ppm	9.3309 ppm	0.9872 ppm	1.0007 ppm	1.0404 ppm	0.1176 ppm	0.5108 ppm
Concentration per Run 2	0.1132 ppm	9.0792 ppm	0.9688 ppm	1.0014 ppm	1.0141 ppm	0.1192 ppm	0.4995 ppm
Concentration per Run 3	0.1173 ppm	8.8429 ppm	0.9412 ppm	0.9863 ppm	0.9864 ppm	0.1159 ppm	0.4849 ppm
Concentration RSD	3.5 %	2.7 %	2.4 %	0.9 %	2.7 %	1.4 %	2.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5159 ppm	100.8326 %	102.6081 %	100.1233 %	102.4347 %	101.8455 %	103.1132 %
Concentration per Run 1	0.5304 ppm	98.2562 %	101.6887 %	99.4130 %	100.8863 %	100.9844 %	103.4627 %
Concentration per Run 2	0.5158 ppm	100.9273 %	102.8033 %	99.8885 %	102.3394 %	102.2055 %	102.6856 %
Concentration per Run 3	0.5015 ppm	103.3143 %	103.3324 %	101.0685 %	104.0785 %	102.3465 %	103.1914 %
Concentration RSD	2.8 %	2.5 %	0.8 %	0.9 %	1.6 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xWG1936007-4 WG1936007
Analysis started at: 6/19/2024 8:20:15 PM
Rack 3
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.3046 ppm	0.0006 ppm	0.0037 ppm	0.0039 ppm	0.0001 ppm	8.2466 ppm
Concentration per Run 1	-0.0006 ppm	0.3094 ppm	0.0001 ppm	0.0039 ppm	0.0038 ppm	0.0001 ppm	8.2560 ppm
Concentration per Run 2	-0.0007 ppm	0.3059 ppm	0.0005 ppm	0.0029 ppm	0.0039 ppm	0.0001 ppm	8.2608 ppm
Concentration per Run 3	-0.0006 ppm	0.2985 ppm	0.0011 ppm	0.0042 ppm	0.0038 ppm	0.0000 ppm	8.2231 ppm
Concentration RSD	10.0 %	1.8 %	85.7 %	19.0 %	1.3 %	66.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0025 ppm	0.4872 ppm	0.8004 ppm	-0.0034 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	0.0006 ppm	0.0026 ppm	0.4891 ppm	0.8108 ppm	-0.0025 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	0.0009 ppm	0.0024 ppm	0.4867 ppm	0.8162 ppm	-0.0040 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0024 ppm	0.4858 ppm	0.7740 ppm	-0.0037 ppm
Concentration RSD	13.2 %	124.1 %	30.7 %	4.5 %	0.4 %	2.9 %	24.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2245 ppm	0.0148 ppm	0.0019 ppm	8.4482 ppm	0.0005 ppm	-0.0018 ppm	0.0006 ppm
Concentration per Run 1	1.2539 ppm	0.0146 ppm	0.0019 ppm	8.4694 ppm	0.0006 ppm	-0.0029 ppm	0.0011 ppm
Concentration per Run 2	1.2208 ppm	0.0150 ppm	0.0016 ppm	8.4569 ppm	0.0009 ppm	-0.0020 ppm	0.0018 ppm
Concentration per Run 3	1.1989 ppm	0.0148 ppm	0.0022 ppm	8.4182 ppm	-0.0001 ppm	-0.0006 ppm	-0.0010 ppm
Concentration RSD	2.3 %	1.3 %	16.1 %	0.3 %	109.9 %	62.8 %	237.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	8.2749 ppm	0.0018 ppm	0.0640 ppm	0.0188 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 1	-0.0021 ppm	8.4795 ppm	0.0009 ppm	0.0644 ppm	0.0194 ppm	0.0010 ppm	0.0007 ppm
Concentration per Run 2	0.0014 ppm	8.2420 ppm	0.0027 ppm	0.0640 ppm	0.0189 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 3	0.0006 ppm	8.1033 ppm	0.0019 ppm	0.0636 ppm	0.0182 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	6,410.7 %	2.3 %	49.3 %	0.6 %	3.3 %	28.9 %	45.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0076 ppm	99.4906 %	100.3545 %	101.5445 %	103.7127 %	103.0086 %	105.7773 %
Concentration per Run 1	0.0079 ppm	97.6960 %	100.4552 %	100.6325 %	103.0188 %	103.1498 %	105.4301 %
Concentration per Run 2	0.0077 ppm	99.7482 %	100.4975 %	101.4817 %	103.6282 %	103.5317 %	105.8511 %
Concentration per Run 3	0.0072 ppm	101.0276 %	100.1108 %	102.5193 %	104.4910 %	102.3443 %	106.0508 %
Concentration RSD	4.9 %	1.7 %	0.2 %	0.9 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xWG1936007-5 WG1936007
Analysis started at: 6/19/2024 8:24:15 PM
Rack 3
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0450 ppm	2.1302 ppm	0.1203 ppm	0.9197 ppm	1.8205 ppm	0.0474 ppm	16.7868 ppm
Concentration per Run 1	0.0458 ppm	2.1594 ppm	0.1233 ppm	0.9418 ppm	1.8366 ppm	0.0479 ppm	16.9344 ppm
Concentration per Run 2	0.0456 ppm	2.1004 ppm	0.1202 ppm	0.9262 ppm	1.8092 ppm	0.0468 ppm	16.6412 ppm
Concentration per Run 3	0.0437 ppm	2.1308 ppm	0.1173 ppm	0.8911 ppm	1.8159 ppm	0.0474 ppm	16.7848 ppm
Concentration RSD	2.5 %	1.4 %	2.5 %	2.8 %	0.8 %	1.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0492 ppm	0.4539 ppm	0.1814 ppm	0.2280 ppm	1.5339 ppm	11.0353 ppm	-0.0019 ppm
Concentration per Run 1	0.0504 ppm	0.4648 ppm	0.1856 ppm	0.2338 ppm	1.5539 ppm	11.1721 ppm	-0.0021 ppm
Concentration per Run 2	0.0497 ppm	0.4585 ppm	0.1828 ppm	0.2303 ppm	1.5188 ppm	10.9459 ppm	-0.0011 ppm
Concentration per Run 3	0.0476 ppm	0.4383 ppm	0.1758 ppm	0.2199 ppm	1.5289 ppm	10.9878 ppm	-0.0024 ppm
Concentration RSD	3.0 %	3.1 %	2.8 %	3.2 %	1.2 %	1.1 %	36.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3030 ppm	0.4872 ppm	0.8236 ppm	17.7980 ppm	0.4607 ppm	0.5253 ppm	0.3466 ppm
Concentration per Run 1	10.5235 ppm	0.4927 ppm	0.8301 ppm	17.9119 ppm	0.4698 ppm	0.5465 ppm	0.3457 ppm
Concentration per Run 2	10.4151 ppm	0.4822 ppm	0.8323 ppm	17.7004 ppm	0.4678 ppm	0.5181 ppm	0.3469 ppm
Concentration per Run 3	9.9702 ppm	0.4867 ppm	0.8084 ppm	17.7818 ppm	0.4444 ppm	0.5114 ppm	0.3473 ppm
Concentration RSD	2.8 %	1.1 %	1.6 %	0.6 %	3.1 %	3.6 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1118 ppm	8.2930 ppm	0.9055 ppm	0.9665 ppm	0.9484 ppm	0.1185 ppm	0.4595 ppm
Concentration per Run 1	0.1143 ppm	8.4944 ppm	0.9215 ppm	0.9738 ppm	0.9682 ppm	0.1215 ppm	0.4693 ppm
Concentration per Run 2	0.1130 ppm	8.3650 ppm	0.9167 ppm	0.9593 ppm	0.9583 ppm	0.1192 ppm	0.4643 ppm
Concentration per Run 3	0.1081 ppm	8.0195 ppm	0.8783 ppm	0.9664 ppm	0.9189 ppm	0.1150 ppm	0.4448 ppm
Concentration RSD	2.9 %	3.0 %	2.6 %	0.8 %	2.8 %	2.8 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4747 ppm	104.0778 %	101.5236 %	96.8147 %	104.7943 %	101.2164 %	99.8085 %
Concentration per Run 1	0.4855 ppm	102.2287 %	100.1913 %	93.7736 %	104.9542 %	100.3284 %	95.9868 %
Concentration per Run 2	0.4798 ppm	102.5867 %	102.6973 %	97.3787 %	102.6422 %	102.5669 %	100.9861 %
Concentration per Run 3	0.4589 ppm	107.4180 %	101.6824 %	99.2919 %	106.7866 %	100.7539 %	102.4525 %
Concentration RSD	3.0 %	2.8 %	1.2 %	2.9 %	2.0 %	1.2 %	3.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xWG1936007-6d5 WG1936007
Analysis started at: 6/19/2024 8:28:16 PM
Rack 3
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0637 ppm	0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	1.5252 ppm
Concentration per Run 1	-0.0010 ppm	0.0548 ppm	0.0015 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	1.5276 ppm
Concentration per Run 2	-0.0003 ppm	0.0599 ppm	-0.0002 ppm	0.0015 ppm	0.0004 ppm	0.0000 ppm	1.5269 ppm
Concentration per Run 3	-0.0008 ppm	0.0764 ppm	0.0000 ppm	0.0007 ppm	0.0006 ppm	0.0001 ppm	1.5211 ppm
Concentration RSD	52.8 %	17.7 %	215.6 %	35.3 %	31.9 %	39.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.1237 ppm	0.1077 ppm	-0.0044 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.1233 ppm	0.1081 ppm	-0.0059 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0010 ppm	0.1230 ppm	0.1205 ppm	-0.0036 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0006 ppm	0.1249 ppm	0.0946 ppm	-0.0038 ppm
Concentration RSD	15.3 %	435.0 %	285.8 %	30.3 %	0.8 %	12.0 %	28.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2303 ppm	0.0029 ppm	0.0036 ppm	1.6709 ppm	-0.0002 ppm	-0.0012 ppm	0.0036 ppm
Concentration per Run 1	0.2349 ppm	0.0029 ppm	0.0042 ppm	1.6782 ppm	-0.0004 ppm	-0.0014 ppm	0.0017 ppm
Concentration per Run 2	0.2306 ppm	0.0030 ppm	0.0032 ppm	1.6732 ppm	-0.0003 ppm	-0.0012 ppm	0.0066 ppm
Concentration per Run 3	0.2254 ppm	0.0027 ppm	0.0034 ppm	1.6612 ppm	0.0002 ppm	-0.0009 ppm	0.0024 ppm
Concentration RSD	2.1 %	6.9 %	15.7 %	0.5 %	188.8 %	18.6 %	74.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	1.4991 ppm	0.0069 ppm	0.0119 ppm	0.0049 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0022 ppm	1.5268 ppm	0.0071 ppm	0.0120 ppm	0.0049 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	1.4918 ppm	0.0066 ppm	0.0118 ppm	0.0051 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 3	-0.0008 ppm	1.4787 ppm	0.0071 ppm	0.0118 ppm	0.0045 ppm	-0.0006 ppm	-0.0001 ppm
Concentration RSD	437.0 %	1.7 %	4.2 %	0.8 %	6.1 %	510.1 %	11,398.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	100.9681 %	101.7258 %	102.1033 %	101.4871 %	100.9963 %	103.2530 %
Concentration per Run 1	0.0023 ppm	99.1624 %	101.7181 %	101.9048 %	100.5453 %	101.2435 %	103.4030 %
Concentration per Run 2	0.0024 ppm	100.9421 %	101.3710 %	102.2495 %	101.2867 %	100.5346 %	103.2172 %
Concentration per Run 3	0.0022 ppm	102.7998 %	102.0882 %	102.1557 %	102.6294 %	101.2109 %	103.1387 %
Concentration RSD	4.7 %	1.8 %	0.4 %	0.2 %	1.0 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2433120-02d10 WG1936007
Analysis started at: 6/19/2024 8:56:48 PM
Rack 3
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0099 ppm	0.0020 ppm	0.0158 ppm	0.0126 ppm	0.0000 ppm	0.2705 ppm
Concentration per Run 1	-0.0005 ppm	0.0072 ppm	0.0023 ppm	0.0156 ppm	0.0128 ppm	0.0000 ppm	0.2699 ppm
Concentration per Run 2	-0.0005 ppm	0.0074 ppm	0.0023 ppm	0.0173 ppm	0.0127 ppm	0.0000 ppm	0.2738 ppm
Concentration per Run 3	-0.0006 ppm	0.0153 ppm	0.0015 ppm	0.0145 ppm	0.0124 ppm	0.0000 ppm	0.2679 ppm
Concentration RSD	8.8 %	46.7 %	22.3 %	9.0 %	1.6 %	275.9 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0003 ppm	0.0015 ppm	0.0023 ppm	0.0192 ppm	0.9269 ppm	-0.0026 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	0.0013 ppm	0.0026 ppm	0.0184 ppm	0.9474 ppm	-0.0022 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	0.0018 ppm	0.0022 ppm	0.0208 ppm	0.9147 ppm	-0.0043 ppm
Concentration per Run 3	0.0003 ppm	0.0008 ppm	0.0013 ppm	0.0019 ppm	0.0184 ppm	0.9187 ppm	-0.0012 ppm
Concentration RSD	20.7 %	123.3 %	18.3 %	15.1 %	7.2 %	1.9 %	61.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0833 ppm	0.0025 ppm	-0.0019 ppm	42.9064 ppm	0.0030 ppm	0.0010 ppm	-0.0020 ppm
Concentration per Run 1	0.0834 ppm	0.0025 ppm	-0.0017 ppm	43.0848 ppm	0.0032 ppm	0.0011 ppm	-0.0058 ppm
Concentration per Run 2	0.0813 ppm	0.0025 ppm	-0.0018 ppm	42.9065 ppm	0.0028 ppm	0.0016 ppm	-0.0017 ppm
Concentration per Run 3	0.0854 ppm	0.0025 ppm	-0.0022 ppm	42.7279 ppm	0.0028 ppm	0.0003 ppm	0.0014 ppm
Concentration RSD	2.5 %	1.1 %	12.8 %	0.4 %	8.1 %	64.6 %	175.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0846 ppm	1.2705 ppm	0.0281 ppm	0.0014 ppm	0.0004 ppm	-0.0600 ppm	0.0000 ppm
Concentration per Run 1	0.0843 ppm	1.2843 ppm	0.0282 ppm	0.0014 ppm	0.0006 ppm	-0.0604 ppm	0.0001 ppm
Concentration per Run 2	0.0840 ppm	1.2640 ppm	0.0280 ppm	0.0014 ppm	0.0002 ppm	-0.0593 ppm	-0.0001 ppm
Concentration per Run 3	0.0855 ppm	1.2631 ppm	0.0282 ppm	0.0013 ppm	0.0003 ppm	-0.0601 ppm	0.0001 ppm
Concentration RSD	0.9 %	0.9 %	0.5 %	5.4 %	61.7 %	0.9 %	349.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0658 ppm	106.0241 %	101.5539 %	98.6117 %	103.5946 %	98.8224 %	102.4253 %
Concentration per Run 1	0.0662 ppm	104.9570 %	101.6242 %	97.7144 %	103.3401 %	99.2054 %	101.8882 %
Concentration per Run 2	0.0656 ppm	106.2743 %	100.4490 %	98.8652 %	103.7170 %	97.7309 %	102.5972 %
Concentration per Run 3	0.0657 ppm	106.8409 %	102.5884 %	99.2554 %	103.7268 %	99.5309 %	102.7905 %
Concentration RSD	0.5 %	0.9 %	1.1 %	0.8 %	0.2 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2433120-02d50 WG1936007
Analysis started at: 6/19/2024 9:01:21 PM
Rack 3
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0059 ppm	0.0002 ppm	0.0036 ppm	0.0023 ppm	0.0000 ppm	0.0704 ppm
Concentration per Run 1	-0.0003 ppm	0.0006 ppm	0.0016 ppm	0.0042 ppm	0.0023 ppm	0.0000 ppm	0.0700 ppm
Concentration per Run 2	-0.0006 ppm	-0.0051 ppm	-0.0002 ppm	0.0033 ppm	0.0022 ppm	0.0000 ppm	0.0695 ppm
Concentration per Run 3	-0.0004 ppm	-0.0131 ppm	-0.0007 ppm	0.0033 ppm	0.0024 ppm	0.0001 ppm	0.0719 ppm
Concentration RSD	37.2 %	117.8 %	578.7 %	14.3 %	3.3 %	96.6 %	1.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0075 ppm	0.1494 ppm	-0.0016 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0082 ppm	0.1430 ppm	-0.0019 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0059 ppm	0.1397 ppm	-0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0084 ppm	0.1655 ppm	-0.0003 ppm
Concentration RSD	39.3 %	397.5 %	26.8 %	3.3 %	18.2 %	9.4 %	71.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0197 ppm	0.0007 ppm	-0.0015 ppm	9.1253 ppm	0.0007 ppm	-0.0012 ppm	-0.0019 ppm
Concentration per Run 1	0.0200 ppm	0.0005 ppm	-0.0017 ppm	9.1631 ppm	0.0011 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 2	0.0201 ppm	0.0007 ppm	-0.0013 ppm	9.1167 ppm	-0.0001 ppm	-0.0017 ppm	0.0002 ppm
Concentration per Run 3	0.0190 ppm	0.0008 ppm	-0.0014 ppm	9.0961 ppm	0.0010 ppm	-0.0018 ppm	-0.0050 ppm
Concentration RSD	3.2 %	25.3 %	12.6 %	0.4 %	105.1 %	81.1 %	146.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0183 ppm	0.2627 ppm	0.0053 ppm	0.0003 ppm	0.0002 ppm	-0.0060 ppm	-0.0001 ppm
Concentration per Run 1	0.0183 ppm	0.2688 ppm	0.0064 ppm	0.0003 ppm	0.0001 ppm	-0.0054 ppm	-0.0001 ppm
Concentration per Run 2	0.0203 ppm	0.2597 ppm	0.0045 ppm	0.0004 ppm	0.0002 ppm	-0.0066 ppm	-0.0002 ppm
Concentration per Run 3	0.0164 ppm	0.2596 ppm	0.0051 ppm	0.0002 ppm	0.0003 ppm	-0.0061 ppm	0.0000 ppm
Concentration RSD	10.6 %	2.0 %	18.2 %	32.6 %	42.1 %	9.9 %	144.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0146 ppm	107.5480 %	103.8853 %	103.8314 %	105.9070 %	101.4831 %	105.5950 %
Concentration per Run 1	0.0147 ppm	106.0135 %	103.6218 %	103.6518 %	105.0140 %	101.7418 %	106.0458 %
Concentration per Run 2	0.0144 ppm	108.0420 %	103.4882 %	103.6219 %	106.4374 %	100.9269 %	104.8779 %
Concentration per Run 3	0.0147 ppm	108.5885 %	104.5461 %	104.2204 %	106.2696 %	101.7805 %	105.8612 %
Concentration RSD	1.2 %	1.3 %	0.6 %	0.3 %	0.7 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2433120-02d80 WG1936007
Analysis started at: 6/19/2024 9:15:31 PM
Rack 3
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0030 ppm	-0.0003 ppm	0.0011 ppm	0.0011 ppm	0.0000 ppm	0.0375 ppm
Concentration per Run 1	-0.0006 ppm	-0.0033 ppm	0.0000 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm	0.0355 ppm
Concentration per Run 2	-0.0003 ppm	-0.0015 ppm	-0.0017 ppm	0.0020 ppm	0.0009 ppm	0.0000 ppm	0.0397 ppm
Concentration per Run 3	-0.0003 ppm	-0.0042 ppm	0.0007 ppm	0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0374 ppm
Concentration RSD	47.6 %	45.2 %	376.8 %	86.8 %	13.7 %	79.2 %	5.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0003 ppm	-0.0004 ppm	0.0026 ppm	0.0837 ppm	-0.0028 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0021 ppm	0.0728 ppm	-0.0030 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	0.0002 ppm	-0.0005 ppm	0.0021 ppm	0.0863 ppm	-0.0026 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0036 ppm	0.0922 ppm	-0.0028 ppm
Concentration RSD	49.7 %	120.4 %	70.1 %	52.7 %	31.9 %	11.9 %	7.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0103 ppm	0.0005 ppm	-0.0008 ppm	5.3759 ppm	-0.0002 ppm	-0.0017 ppm	-0.0027 ppm
Concentration per Run 1	0.0104 ppm	0.0004 ppm	-0.0005 ppm	5.3437 ppm	0.0001 ppm	-0.0015 ppm	-0.0015 ppm
Concentration per Run 2	0.0102 ppm	0.0005 ppm	-0.0009 ppm	5.3731 ppm	-0.0002 ppm	-0.0015 ppm	-0.0026 ppm
Concentration per Run 3	0.0104 ppm	0.0006 ppm	-0.0010 ppm	5.4110 ppm	-0.0006 ppm	-0.0021 ppm	-0.0039 ppm
Concentration RSD	1.1 %	16.7 %	28.1 %	0.6 %	126.5 %	22.0 %	45.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0094 ppm	0.1370 ppm	0.0020 ppm	0.0001 ppm	0.0004 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	0.0097 ppm	0.1346 ppm	0.0024 ppm	0.0002 ppm	0.0005 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0100 ppm	0.1352 ppm	0.0014 ppm	0.0000 ppm	0.0004 ppm	-0.0022 ppm	0.0000 ppm
Concentration per Run 3	0.0086 ppm	0.1414 ppm	0.0021 ppm	0.0002 ppm	0.0003 ppm	-0.0008 ppm	-0.0002 ppm
Concentration RSD	8.1 %	2.7 %	26.2 %	69.6 %	32.6 %	49.3 %	729.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0078 ppm	128.6538 %	109.2198 %	117.1159 %	109.0902 %	101.0226 %	107.3266 %
Concentration per Run 1	0.0075 ppm	131.1061 %	109.4052 %	117.7973 %	108.8063 %	100.8911 %	107.1481 %
Concentration per Run 2	0.0079 ppm	128.2864 %	109.4472 %	117.2412 %	108.9175 %	101.2574 %	107.5192 %
Concentration per Run 3	0.0079 ppm	126.5689 %	108.8071 %	116.3091 %	109.5467 %	100.9194 %	107.3126 %
Concentration RSD	3.0 %	1.8 %	0.3 %	0.6 %	0.4 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 9:25:55 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4082 ppm	0.4546 ppm	0.4173 ppm	0.3894 ppm	0.4644 ppm	0.4754 ppm	0.4585 ppm
Concentration per Run 1	0.3958 ppm	0.4561 ppm	0.4140 ppm	0.3769 ppm	0.4603 ppm	0.4732 ppm	0.4561 ppm
Concentration per Run 2	0.4098 ppm	0.4578 ppm	0.4197 ppm	0.3917 ppm	0.4677 ppm	0.4763 ppm	0.4554 ppm
Concentration per Run 3	0.4191 ppm	0.4499 ppm	0.4182 ppm	0.3996 ppm	0.4651 ppm	0.4768 ppm	0.4639 ppm
Recovery Percentage 1	81.650 %	90.917 %	83.459 %	77.884 %	92.873 %	95.086 %	91.696 %
Concentration RSD	2.9 %	0.9 %	0.7 %	3.0 %	0.8 %	0.4 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4055 ppm	0.4123 ppm	0.4044 ppm	0.4014 ppm	0.4873 ppm	5.1777 ppm	0.4821 ppm
Concentration per Run 1	0.3923 ppm	0.3993 ppm	0.3925 ppm	0.3877 ppm	0.4838 ppm	5.1611 ppm	0.4817 ppm
Concentration per Run 2	0.4077 ppm	0.4144 ppm	0.4049 ppm	0.4029 ppm	0.4918 ppm	5.2050 ppm	0.4896 ppm
Concentration per Run 3	0.4164 ppm	0.4232 ppm	0.4158 ppm	0.4135 ppm	0.4862 ppm	5.1670 ppm	0.4752 ppm
Recovery Percentage 1	81.098 %	82.461 %	80.880 %	80.276 %	97.456 %	103.554 %	96.430 %
Concentration RSD	3.0 %	2.9 %	2.9 %	3.2 %	0.9 %	0.5 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.3988 ppm	0.4787 ppm	0.3999 ppm	10.0299 ppm	0.4129 ppm	0.4403 ppm	0.3895 ppm
Concentration per Run 1	0.3878 ppm	0.4759 ppm	0.3833 ppm	10.0083 ppm	0.4005 ppm	0.4370 ppm	0.3766 ppm
Concentration per Run 2	0.3987 ppm	0.4790 ppm	0.4031 ppm	10.0332 ppm	0.4135 ppm	0.4395 ppm	0.3888 ppm
Concentration per Run 3	0.4099 ppm	0.4812 ppm	0.4134 ppm	10.0482 ppm	0.4247 ppm	0.4444 ppm	0.4032 ppm
Recovery Percentage 1	79.759 %	95.738 %	79.986 %	100.299 %	82.582 %	88.059 %	77.903 %
Concentration RSD	2.8 %	0.6 %	3.8 %	0.2 %	2.9 %	0.8 %	3.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4463 ppm	4.1995 ppm	0.4179 ppm	0.4665 ppm	0.4125 ppm	0.4391 ppm	0.4041 ppm
Concentration per Run 1	0.4483 ppm	4.0724 ppm	0.4042 ppm	0.4642 ppm	0.4029 ppm	0.4350 ppm	0.3906 ppm
Concentration per Run 2	0.4470 ppm	4.2221 ppm	0.4189 ppm	0.4674 ppm	0.4115 ppm	0.4373 ppm	0.4053 ppm
Concentration per Run 3	0.4434 ppm	4.3041 ppm	0.4305 ppm	0.4680 ppm	0.4231 ppm	0.4450 ppm	0.4163 ppm
Recovery Percentage 1	89.251 %	79.991 %	83.571 %	93.303 %	82.501 %	87.819 %	80.815 %
Concentration RSD	0.6 %	2.8 %	3.1 %	0.4 %	2.5 %	1.2 %	3.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4076 ppm	127.7116 %	106.0312 %	114.9464 %	105.6965 %	98.8611 %	105.0157 %
Concentration per Run 1	0.3934 ppm	131.7266 %	107.2001 %	116.3663 %	105.3847 %	99.7824 %	104.8596 %
Concentration per Run 2	0.4098 ppm	126.7153 %	105.4301 %	114.5026 %	105.1351 %	97.9909 %	104.8514 %
Concentration per Run 3	0.4196 ppm	124.6928 %	105.4634 %	113.9703 %	106.5697 %	98.8101 %	105.3361 %
Recovery Percentage 1	81.523 %						
Concentration RSD	3.2 %	2.8 %	1.0 %	1.1 %	0.7 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:30:17 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0098 ppm	-0.0002 ppm	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0025 ppm
Concentration per Run 1	-0.0007 ppm	-0.0082 ppm	0.0004 ppm	-0.0005 ppm	-0.0006 ppm	0.0000 ppm	0.0047 ppm
Concentration per Run 2	-0.0005 ppm	-0.0079 ppm	-0.0018 ppm	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	-0.0006 ppm	-0.0133 ppm	0.0006 ppm	0.0005 ppm	-0.0007 ppm	0.0001 ppm	0.0023 ppm
Recovery Percentage 1	-8.134 %	-9.820 %	-8.171 %	-0.003 %	-6.363 %	1.494 %	2.535 %
Concentration RSD	15.4 %	30.8 %	534.6 %	57,762.6 %	10.0 %	56.0 %	81.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0004 ppm	0.0026 ppm	-0.0557 ppm	-0.0026 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0008 ppm	0.0034 ppm	-0.0563 ppm	-0.0041 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0028 ppm	-0.0799 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	-0.0004 ppm	0.0003 ppm	0.0016 ppm	-0.0308 ppm	-0.0034 ppm
Recovery Percentage 1	1.326 %	1.965 %	-1.543 %	4.244 %	5.240 %	-2.226 %	-25.553 %
Concentration RSD	199.1 %	57.9 %	120.0 %	87.3 %	34.9 %	44.2 %	81.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0008 ppm	0.0473 ppm	0.0003 ppm	-0.0011 ppm	0.0013 ppm
Concentration per Run 1	0.0020 ppm	-0.0002 ppm	0.0012 ppm	0.0481 ppm	0.0008 ppm	-0.0019 ppm	0.0014 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0008 ppm	0.0502 ppm	0.0000 ppm	-0.0004 ppm	0.0009 ppm
Concentration per Run 3	-0.0006 ppm	-0.0001 ppm	0.0005 ppm	0.0437 ppm	0.0000 ppm	-0.0009 ppm	0.0016 ppm
Recovery Percentage 1	0.661 %	-0.381 %	1.663 %	2.367 %	1.014 %	-10.647 %	2.598 %
Concentration RSD	192.6 %	406.3 %	41.8 %	7.0 %	198.4 %	73.4 %	29.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0036 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0003 ppm	0.0073 ppm	-0.0005 ppm	0.0002 ppm	0.0001 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 2	-0.0006 ppm	0.0017 ppm	-0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0018 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0011 ppm	-0.0002 ppm
Recovery Percentage 1	-3.427 %	0.716 %	-1.256 %	1.145 %	1.082 %	1.299 %	-1.512 %
Concentration RSD	62.4 %	89.1 %	36.1 %	72.0 %	92.0 %	474.2 %	53.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	103.1528 %	101.5074 %	104.1172 %	102.1114 %	100.6047 %	104.0481 %
Concentration per Run 1	0.0006 ppm	101.3348 %	101.0980 %	104.2501 %	100.7924 %	100.5976 %	104.1086 %
Concentration per Run 2	0.0008 ppm	103.5553 %	101.6392 %	103.9464 %	102.3861 %	100.5865 %	103.9600 %
Concentration per Run 3	0.0005 ppm	104.5682 %	101.7850 %	104.1552 %	103.1557 %	100.6301 %	104.0758 %
Recovery Percentage 1	12.328 %						
Concentration RSD	20.9 %	1.6 %	0.4 %	0.1 %	1.2 %	0.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 9:55:16 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4667 ppm	0.4619 ppm	0.4484 ppm	0.4550 ppm	0.4717 ppm	0.4823 ppm	0.4665 ppm
Concentration per Run 1	0.4690 ppm	0.4683 ppm	0.4497 ppm	0.4571 ppm	0.4711 ppm	0.4812 ppm	0.4669 ppm
Concentration per Run 2	0.4641 ppm	0.4588 ppm	0.4476 ppm	0.4547 ppm	0.4717 ppm	0.4828 ppm	0.4650 ppm
Concentration per Run 3	0.4669 ppm	0.4585 ppm	0.4477 ppm	0.4531 ppm	0.4724 ppm	0.4830 ppm	0.4676 ppm
Recovery Percentage 1	93.333 %	92.371 %	89.670 %	90.991 %	94.344 %	96.468 %	93.300 %
Concentration RSD	0.5 %	1.2 %	0.3 %	0.4 %	0.1 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4656 ppm	0.4727 ppm	0.4606 ppm	0.4525 ppm	0.4940 ppm	5.3661 ppm	0.5003 ppm
Concentration per Run 1	0.4678 ppm	0.4749 ppm	0.4620 ppm	0.4558 ppm	0.4955 ppm	5.4134 ppm	0.5037 ppm
Concentration per Run 2	0.4652 ppm	0.4734 ppm	0.4588 ppm	0.4504 ppm	0.4931 ppm	5.3580 ppm	0.4984 ppm
Concentration per Run 3	0.4637 ppm	0.4697 ppm	0.4610 ppm	0.4513 ppm	0.4934 ppm	5.3269 ppm	0.4989 ppm
Recovery Percentage 1	93.113 %	94.540 %	92.117 %	90.503 %	98.798 %	107.322 %	100.066 %
Concentration RSD	0.4 %	0.6 %	0.4 %	0.6 %	0.3 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4578 ppm	0.4833 ppm	0.4552 ppm	10.1715 ppm	0.4755 ppm	0.4612 ppm	0.4539 ppm
Concentration per Run 1	0.4614 ppm	0.4844 ppm	0.4530 ppm	10.1781 ppm	0.4765 ppm	0.4614 ppm	0.4535 ppm
Concentration per Run 2	0.4562 ppm	0.4815 ppm	0.4540 ppm	10.1554 ppm	0.4743 ppm	0.4599 ppm	0.4535 ppm
Concentration per Run 3	0.4558 ppm	0.4840 ppm	0.4588 ppm	10.1809 ppm	0.4756 ppm	0.4623 ppm	0.4547 ppm
Recovery Percentage 1	91.560 %	96.665 %	91.049 %	101.715 %	95.093 %	92.239 %	90.779 %
Concentration RSD	0.7 %	0.3 %	0.7 %	0.1 %	0.2 %	0.3 %	0.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4556 ppm	4.8024 ppm	0.4815 ppm	0.4724 ppm	0.4650 ppm	0.4509 ppm	0.4591 ppm
Concentration per Run 1	0.4582 ppm	4.8216 ppm	0.4836 ppm	0.4708 ppm	0.4675 ppm	0.4509 ppm	0.4619 ppm
Concentration per Run 2	0.4537 ppm	4.7809 ppm	0.4795 ppm	0.4737 ppm	0.4624 ppm	0.4505 ppm	0.4584 ppm
Concentration per Run 3	0.4550 ppm	4.8048 ppm	0.4813 ppm	0.4728 ppm	0.4651 ppm	0.4511 ppm	0.4571 ppm
Recovery Percentage 1	91.125 %	91.475 %	96.291 %	94.487 %	93.002 %	90.172 %	91.823 %
Concentration RSD	0.5 %	0.4 %	0.4 %	0.3 %	0.6 %	0.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4747 ppm	109.0152 %	104.1504 %	106.8675 %	102.4424 %	100.7118 %	103.8543 %
Concentration per Run 1	0.4756 ppm	108.4785 %	104.0310 %	106.9373 %	102.0374 %	100.7211 %	104.0591 %
Concentration per Run 2	0.4736 ppm	108.8947 %	104.3350 %	106.9319 %	102.2079 %	100.7129 %	104.1240 %
Concentration per Run 3	0.4749 ppm	109.6724 %	104.0853 %	106.7333 %	103.0819 %	100.7014 %	103.3798 %
Recovery Percentage 1	94.943 %						
Concentration RSD	0.2 %	0.6 %	0.2 %	0.1 %	0.5 %	0.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:59:22 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0045 ppm	-0.0008 ppm	-0.0009 ppm	-0.0004 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	-0.0081 ppm	0.0009 ppm	-0.0002 ppm	-0.0006 ppm	0.0001 ppm	-0.0036 ppm
Concentration per Run 2	-0.0008 ppm	-0.0032 ppm	-0.0022 ppm	-0.0014 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	-0.0022 ppm	-0.0012 ppm	-0.0012 ppm	-0.0004 ppm	0.0001 ppm	0.0046 ppm
Recovery Percentage 1	-6.496 %	-4.525 %	-27.569 %	-3.159 %	-4.221 %	2.247 %	0.300 %
Concentration RSD	76.0 %	70.1 %	192.8 %	66.8 %	40.6 %	44.9 %	1,366.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0045 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0035 ppm	0.0021 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0047 ppm	-0.0032 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0054 ppm	0.0044 ppm	-0.0011 ppm
Recovery Percentage 1	1.855 %	-0.119 %	1.793 %	4.153 %	9.059 %	0.044 %	2.170 %
Concentration RSD	71.0 %	500.2 %	186.3 %	13.4 %	20.7 %	357.3 %	1,065.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0008 ppm	0.0346 ppm	-0.0004 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0364 ppm	-0.0008 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0005 ppm	0.0384 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0022 ppm	0.0000 ppm	0.0009 ppm	0.0290 ppm	-0.0003 ppm	-0.0009 ppm	-0.0010 ppm
Recovery Percentage 1	1.039 %	0.872 %	1.548 %	1.730 %	-1.422 %	-4.487 %	-0.318 %
Concentration RSD	104.1 %	121.1 %	25.4 %	14.4 %	101.2 %	106.6 %	504.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	0.0018 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0023 ppm	0.0038 ppm	-0.0006 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	-0.0020 ppm	0.0010 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0034 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0019 ppm	0.0001 ppm
Recovery Percentage 1	-25.936 %	0.356 %	-0.673 %	0.867 %	0.591 %	-2.267 %	1.282 %
Concentration RSD	28.3 %	101.1 %	72.6 %	59.6 %	407.2 %	288.3 %	40.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	102.4888 %	100.0648 %	103.8705 %	102.5698 %	100.7292 %	104.8129 %
Concentration per Run 1	0.0007 ppm	100.4187 %	99.8370 %	103.5844 %	100.9699 %	100.6815 %	104.5429 %
Concentration per Run 2	0.0007 ppm	103.2213 %	99.8819 %	103.7071 %	103.2598 %	100.6815 %	104.6513 %
Concentration per Run 3	0.0008 ppm	103.8263 %	100.4755 %	104.3199 %	103.4798 %	100.8246 %	105.2446 %
Recovery Percentage 1	14.607 %						
Concentration RSD	11.6 %	1.8 %	0.4 %	0.4 %	1.4 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936261-1 WG1936261
Analysis started at: 6/19/2024 10:05:37 PM
Rack 3
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0007 ppm	0.0006 ppm	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0234 ppm
Concentration per Run 1	-0.0007 ppm	-0.0048 ppm	0.0009 ppm	-0.0007 ppm	-0.0003 ppm	0.0001 ppm	0.0257 ppm
Concentration per Run 2	0.0001 ppm	0.0052 ppm	0.0004 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0209 ppm
Concentration per Run 3	-0.0002 ppm	0.0017 ppm	0.0006 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0236 ppm
Recovery Percentage 1	-3.774 %	0.685 %	20.920 %	0.525 %	-1.810 %	1.602 %	23.388 %
Concentration RSD	155.7 %	742.3 %	37.9 %	522.9 %	56.0 %	62.0 %	10.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0007 ppm	0.0007 ppm	-0.0004 ppm	0.0693 ppm	-0.0203 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0006 ppm	-0.0007 ppm	0.0675 ppm	-0.0359 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0008 ppm	-0.0004 ppm	0.0673 ppm	-0.0140 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	0.0007 ppm	-0.0001 ppm	0.0733 ppm	-0.0111 ppm	-0.0002 ppm
Recovery Percentage 1	0.468 %	-3.579 %	7.089 %	-4.144 %	138.662 %	-0.812 %	0.480 %
Concentration RSD	244.4 %	5.0 %	13.2 %	72.8 %	4.9 %	66.9 %	1,414.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0053 ppm	0.0012 ppm	-0.0003 ppm	0.0518 ppm	-0.0001 ppm	-0.0018 ppm	-0.0005 ppm
Concentration per Run 1	0.0055 ppm	0.0012 ppm	-0.0003 ppm	0.0552 ppm	-0.0002 ppm	-0.0011 ppm	-0.0006 ppm
Concentration per Run 2	0.0051 ppm	0.0012 ppm	-0.0002 ppm	0.0551 ppm	0.0000 ppm	-0.0019 ppm	-0.0019 ppm
Concentration per Run 3	0.0052 ppm	0.0010 ppm	-0.0005 ppm	0.0450 ppm	-0.0001 ppm	-0.0022 ppm	0.0009 ppm
Recovery Percentage 1	5.255 %	11.605 %	-0.612 %	2.588 %	-0.509 %	-17.523 %	-1.028 %
Concentration RSD	3.6 %	11.7 %	60.4 %	11.3 %	102.6 %	33.3 %	274.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	0.0094 ppm	-0.0009 ppm	0.0000 ppm	0.0005 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0018 ppm	0.0084 ppm	-0.0009 ppm	0.0000 ppm	0.0006 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0103 ppm	-0.0009 ppm	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0034 ppm	0.0095 ppm	-0.0008 ppm	0.0000 ppm	0.0004 ppm	-0.0012 ppm	-0.0002 ppm
Recovery Percentage 1	-16.869 %	1.881 %	-1.731 %	-0.366 %	5.001 %	-1.443 %	-1.454 %
Concentration RSD	109.0 %	9.8 %	8.7 %	242.6 %	12.7 %	305.6 %	53.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	126.4976 %	104.5005 %	113.6205 %	107.1697 %	100.2462 %	107.0003 %
Concentration per Run 1	0.0015 ppm	130.2755 %	105.7157 %	115.0414 %	106.4728 %	101.3341 %	106.8168 %
Concentration per Run 2	0.0015 ppm	126.0322 %	104.0116 %	113.9153 %	107.2573 %	99.5259 %	107.2780 %
Concentration per Run 3	0.0016 ppm	123.1852 %	103.7742 %	111.9047 %	107.7789 %	99.8786 %	106.9062 %
Recovery Percentage 1	30.669 %						
Concentration RSD	2.1 %	2.8 %	1.0 %	1.4 %	0.6 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936261-2d2 WG1936261
Analysis started at: 6/19/2024 10:10:05 PM
Rack 3
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0459 ppm	1.9300 ppm	0.1067 ppm	0.8615 ppm	1.8706 ppm	0.0480 ppm	9.1122 ppm
Concentration per Run 1	0.0457 ppm	1.9374 ppm	0.1080 ppm	0.8640 ppm	1.8604 ppm	0.0480 ppm	9.1051 ppm
Concentration per Run 2	0.0462 ppm	1.9287 ppm	0.1069 ppm	0.8584 ppm	1.8751 ppm	0.0480 ppm	9.0992 ppm
Concentration per Run 3	0.0458 ppm	1.9239 ppm	0.1052 ppm	0.8620 ppm	1.8764 ppm	0.0478 ppm	9.1323 ppm
Concentration RSD	0.6 %	0.4 %	1.3 %	0.3 %	0.5 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0481 ppm	0.4587 ppm	0.1826 ppm	0.2273 ppm	1.0023 ppm	10.1815 ppm	-0.0009 ppm
Concentration per Run 1	0.0483 ppm	0.4618 ppm	0.1840 ppm	0.2284 ppm	1.0005 ppm	10.1902 ppm	0.0005 ppm
Concentration per Run 2	0.0480 ppm	0.4580 ppm	0.1823 ppm	0.2271 ppm	1.0070 ppm	10.2268 ppm	-0.0016 ppm
Concentration per Run 3	0.0479 ppm	0.4564 ppm	0.1814 ppm	0.2264 ppm	0.9994 ppm	10.1275 ppm	-0.0016 ppm
Concentration RSD	0.5 %	0.6 %	0.7 %	0.4 %	0.4 %	0.5 %	137.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.7086 ppm	0.4791 ppm	0.8833 ppm	9.8819 ppm	0.4520 ppm	0.4827 ppm	0.4546 ppm
Concentration per Run 1	8.7487 ppm	0.4782 ppm	0.8814 ppm	9.8736 ppm	0.4557 ppm	0.4832 ppm	0.4580 ppm
Concentration per Run 2	8.6749 ppm	0.4794 ppm	0.8843 ppm	9.8541 ppm	0.4513 ppm	0.4822 ppm	0.4553 ppm
Concentration per Run 3	8.7022 ppm	0.4797 ppm	0.8843 ppm	9.9179 ppm	0.4490 ppm	0.4828 ppm	0.4504 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.3 %	0.8 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1042 ppm	0.9090 ppm	0.8884 ppm	0.8800 ppm	0.8886 ppm	0.1044 ppm	0.4606 ppm
Concentration per Run 1	0.1036 ppm	0.9112 ppm	0.8941 ppm	0.8799 ppm	0.8915 ppm	0.1051 ppm	0.4632 ppm
Concentration per Run 2	0.1055 ppm	0.9099 ppm	0.8887 ppm	0.8774 ppm	0.8869 ppm	0.1042 ppm	0.4588 ppm
Concentration per Run 3	0.1036 ppm	0.9060 ppm	0.8824 ppm	0.8828 ppm	0.8873 ppm	0.1041 ppm	0.4598 ppm
Concentration RSD	1.1 %	0.3 %	0.7 %	0.3 %	0.3 %	0.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4576 ppm	107.4352 %	102.4930 %	104.1059 %	101.2651 %	99.0157 %	102.3577 %
Concentration per Run 1	0.4618 ppm	106.6467 %	103.4968 %	104.1226 %	100.5830 %	100.0968 %	102.3570 %
Concentration per Run 2	0.4566 ppm	107.9497 %	102.1755 %	104.1389 %	101.6973 %	98.5356 %	102.2254 %
Concentration per Run 3	0.4543 ppm	107.7093 %	101.8066 %	104.0564 %	101.5151 %	98.4148 %	102.4907 %
Concentration RSD	0.8 %	0.6 %	0.9 %	0.0 %	0.6 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433284-02d2 WG1936261
Analysis started at: 6/19/2024 10:14:06 PM
Rack 3
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	88.9476 ppm	0.0670 ppm	0.0513 ppm	0.7699 ppm	0.0069 ppm	259.4582 ppm
Concentration per Run 1	-0.0001 ppm	88.7491 ppm	0.0662 ppm	0.0527 ppm	0.7738 ppm	0.0069 ppm	258.3739 ppm
Concentration per Run 2	-0.0002 ppm	88.9510 ppm	0.0661 ppm	0.0515 ppm	0.7649 ppm	0.0069 ppm	259.4629 ppm
Concentration per Run 3	0.0001 ppm	89.1427 ppm	0.0688 ppm	0.0496 ppm	0.7709 ppm	0.0069 ppm	260.5378 ppm
Concentration RSD	167.7 %	0.2 %	2.3 %	3.0 %	0.6 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0056 ppm	0.0692 ppm	0.1718 ppm	0.3208 ppm	235.4280 ppm	12.9853 ppm	0.1499 ppm
Concentration per Run 1	0.0055 ppm	0.0700 ppm	0.1726 ppm	0.3226 ppm	235.8305 ppm	13.0577 ppm	0.1511 ppm
Concentration per Run 2	0.0057 ppm	0.0689 ppm	0.1710 ppm	0.3208 ppm	235.2475 ppm	12.9987 ppm	0.1506 ppm
Concentration per Run 3	0.0057 ppm	0.0686 ppm	0.1718 ppm	0.3191 ppm	235.2060 ppm	12.8995 ppm	0.1480 ppm
Concentration RSD	1.5 %	1.0 %	0.5 %	0.6 %	0.1 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.6698 ppm	4.7495 ppm	0.0126 ppm	0.8884 ppm	0.1977 ppm	0.8684 ppm	0.0081 ppm
Concentration per Run 1	77.2360 ppm	4.7346 ppm	0.0120 ppm	0.8950 ppm	0.1988 ppm	0.8716 ppm	0.0071 ppm
Concentration per Run 2	76.2999 ppm	4.7355 ppm	0.0128 ppm	0.8851 ppm	0.1963 ppm	0.8712 ppm	0.0067 ppm
Concentration per Run 3	76.4734 ppm	4.7783 ppm	0.0131 ppm	0.8850 ppm	0.1981 ppm	0.8625 ppm	0.0104 ppm
Concentration RSD	0.6 %	0.5 %	4.6 %	0.6 %	0.7 %	0.6 %	25.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	9.3964 ppm	0.0208 ppm	0.4330 ppm	0.8851 ppm	0.0033 ppm	0.1955 ppm
Concentration per Run 1	-0.0018 ppm	9.5845 ppm	0.0212 ppm	0.4330 ppm	0.8917 ppm	0.0040 ppm	0.1962 ppm
Concentration per Run 2	-0.0007 ppm	9.3596 ppm	0.0207 ppm	0.4309 ppm	0.8859 ppm	0.0017 ppm	0.1951 ppm
Concentration per Run 3	-0.0014 ppm	9.2452 ppm	0.0206 ppm	0.4350 ppm	0.8776 ppm	0.0043 ppm	0.1953 ppm
Concentration RSD	41.1 %	1.8 %	1.6 %	0.5 %	0.8 %	43.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4979 ppm	108.7636 %	108.9534 %	97.9284 %	134.4667 %	140.2318 %	136.2794 %
Concentration per Run 1	1.5012 ppm	108.5471 %	109.4924 %	98.1225 %	133.6597 %	140.8951 %	136.6008 %
Concentration per Run 2	1.4920 ppm	109.1330 %	109.0746 %	97.4069 %	135.1604 %	140.1984 %	135.7705 %
Concentration per Run 3	1.5005 ppm	108.6107 %	108.2932 %	98.2559 %	134.5800 %	139.6020 %	136.4670 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.5 %	0.6 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433284-03d2 WG1936261
Analysis started at: 6/19/2024 10:18:07 PM
Rack 3
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	88.4681 ppm	0.0513 ppm	0.0160 ppm	0.7229 ppm	0.0047 ppm	24.4639 ppm
Concentration per Run 1	0.0001 ppm	88.1243 ppm	0.0524 ppm	0.0152 ppm	0.7204 ppm	0.0047 ppm	24.3235 ppm
Concentration per Run 2	-0.0001 ppm	88.6212 ppm	0.0499 ppm	0.0157 ppm	0.7249 ppm	0.0047 ppm	24.5481 ppm
Concentration per Run 3	-0.0002 ppm	88.6587 ppm	0.0515 ppm	0.0171 ppm	0.7232 ppm	0.0047 ppm	24.5201 ppm
Concentration RSD	263.6 %	0.3 %	2.4 %	6.1 %	0.3 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0036 ppm	0.0530 ppm	0.1053 ppm	0.1034 ppm	168.2946 ppm	4.6596 ppm	0.0872 ppm
Concentration per Run 1	0.0037 ppm	0.0533 ppm	0.1058 ppm	0.1038 ppm	167.7805 ppm	4.6724 ppm	0.0887 ppm
Concentration per Run 2	0.0035 ppm	0.0535 ppm	0.1051 ppm	0.1031 ppm	168.6607 ppm	4.6198 ppm	0.0844 ppm
Concentration per Run 3	0.0036 ppm	0.0523 ppm	0.1052 ppm	0.1034 ppm	168.4427 ppm	4.6866 ppm	0.0884 ppm
Concentration RSD	1.9 %	1.2 %	0.4 %	0.3 %	0.3 %	0.8 %	2.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.6653 ppm	6.7211 ppm	0.0045 ppm	0.6049 ppm	0.0954 ppm	0.2192 ppm	0.0036 ppm
Concentration per Run 1	18.7925 ppm	6.6884 ppm	0.0041 ppm	0.6027 ppm	0.0952 ppm	0.2190 ppm	0.0047 ppm
Concentration per Run 2	18.5898 ppm	6.7433 ppm	0.0049 ppm	0.6031 ppm	0.0949 ppm	0.2196 ppm	0.0025 ppm
Concentration per Run 3	18.6136 ppm	6.7316 ppm	0.0046 ppm	0.6089 ppm	0.0961 ppm	0.2191 ppm	0.0037 ppm
Concentration RSD	0.6 %	0.4 %	8.7 %	0.6 %	0.7 %	0.1 %	30.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	6.6051 ppm	0.0055 ppm	0.0896 ppm	0.4490 ppm	0.0025 ppm	0.2105 ppm
Concentration per Run 1	0.0013 ppm	6.6996 ppm	0.0051 ppm	0.0895 ppm	0.4468 ppm	0.0020 ppm	0.2115 ppm
Concentration per Run 2	0.0006 ppm	6.6140 ppm	0.0058 ppm	0.0896 ppm	0.4494 ppm	0.0010 ppm	0.2093 ppm
Concentration per Run 3	0.0025 ppm	6.5016 ppm	0.0057 ppm	0.0897 ppm	0.4507 ppm	0.0044 ppm	0.2105 ppm
Concentration RSD	66.2 %	1.5 %	6.6 %	0.1 %	0.4 %	70.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6252 ppm	112.0545 %	109.5368 %	104.7231 %	130.1687 %	131.6059 %	131.5465 %
Concentration per Run 1	0.6290 ppm	111.2705 %	109.3488 %	105.0754 %	129.1094 %	131.2291 %	131.8658 %
Concentration per Run 2	0.6221 ppm	112.2753 %	109.5478 %	104.5408 %	130.3525 %	131.5245 %	131.2078 %
Concentration per Run 3	0.6245 ppm	112.6178 %	109.7138 %	104.5530 %	131.0441 %	132.0640 %	131.5660 %
Concentration RSD	0.6 %	0.6 %	0.2 %	0.3 %	0.8 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433284-01d2 WG1936261
Analysis started at: 6/19/2024 10:22:08 PM
Rack 3
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	93.4063 ppm	0.0573 ppm	0.0479 ppm	0.8363 ppm	0.0087 ppm	294.4078 ppm
Concentration per Run 1	0.0005 ppm	93.2081 ppm	0.0561 ppm	0.0499 ppm	0.8284 ppm	0.0088 ppm	294.4136 ppm
Concentration per Run 2	0.0006 ppm	93.6271 ppm	0.0583 ppm	0.0476 ppm	0.8415 ppm	0.0087 ppm	294.2108 ppm
Concentration per Run 3	0.0004 ppm	93.3837 ppm	0.0573 ppm	0.0461 ppm	0.8390 ppm	0.0087 ppm	294.5990 ppm
Concentration RSD	15.3 %	0.2 %	2.0 %	4.0 %	0.8 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.0534 ppm	0.1948 ppm	0.2601 ppm	165.5112 ppm	6.8810 ppm	0.1344 ppm
Concentration per Run 1	0.0045 ppm	0.0535 ppm	0.1965 ppm	0.2614 ppm	165.1692 ppm	6.8729 ppm	0.1344 ppm
Concentration per Run 2	0.0046 ppm	0.0528 ppm	0.1939 ppm	0.2592 ppm	165.5327 ppm	6.8953 ppm	0.1339 ppm
Concentration per Run 3	0.0046 ppm	0.0539 ppm	0.1939 ppm	0.2599 ppm	165.8317 ppm	6.8748 ppm	0.1350 ppm
Concentration RSD	1.1 %	1.0 %	0.8 %	0.4 %	0.2 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.4460 ppm	5.8683 ppm	0.0081 ppm	2.9199 ppm	0.1639 ppm	0.8297 ppm	0.0062 ppm
Concentration per Run 1	63.9146 ppm	5.8542 ppm	0.0079 ppm	2.9314 ppm	0.1653 ppm	0.8293 ppm	0.0066 ppm
Concentration per Run 2	63.2802 ppm	5.8856 ppm	0.0082 ppm	2.9142 ppm	0.1629 ppm	0.8278 ppm	0.0062 ppm
Concentration per Run 3	63.1432 ppm	5.8651 ppm	0.0083 ppm	2.9140 ppm	0.1633 ppm	0.8319 ppm	0.0057 ppm
Concentration RSD	0.6 %	0.3 %	2.8 %	0.3 %	0.8 %	0.3 %	6.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	11.0851 ppm	0.0199 ppm	0.4388 ppm	0.8242 ppm	0.0024 ppm	0.1697 ppm
Concentration per Run 1	0.0010 ppm	11.1512 ppm	0.0199 ppm	0.4382 ppm	0.8280 ppm	0.0024 ppm	0.1712 ppm
Concentration per Run 2	-0.0010 ppm	11.0285 ppm	0.0195 ppm	0.4390 ppm	0.8250 ppm	0.0025 ppm	0.1687 ppm
Concentration per Run 3	-0.0012 ppm	11.0757 ppm	0.0204 ppm	0.4391 ppm	0.8196 ppm	0.0022 ppm	0.1692 ppm
Concentration RSD	309.1 %	0.6 %	2.2 %	0.1 %	0.5 %	4.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1435 ppm	107.5799 %	107.7541 %	98.1179 %	132.0153 %	137.3458 %	134.4068 %
Concentration per Run 1	1.1529 ppm	106.9530 %	108.0085 %	98.3405 %	130.9495 %	138.1621 %	135.0013 %
Concentration per Run 2	1.1363 ppm	107.9685 %	108.3290 %	98.2739 %	132.2794 %	137.9257 %	134.1415 %
Concentration per Run 3	1.1413 ppm	107.8183 %	106.9249 %	97.7393 %	132.8169 %	135.9496 %	134.0775 %
Concentration RSD	0.7 %	0.5 %	0.7 %	0.3 %	0.7 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-05d2 WG1936261
Analysis started at: 6/19/2024 10:26:09 PM
Rack 3
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	117.3949 ppm	0.0925 ppm	0.0088 ppm	0.7172 ppm	0.0047 ppm	17.1056 ppm
Concentration per Run 1	0.0000 ppm	117.3843 ppm	0.0912 ppm	0.0068 ppm	0.7185 ppm	0.0045 ppm	17.1083 ppm
Concentration per Run 2	-0.0005 ppm	117.5035 ppm	0.0949 ppm	0.0104 ppm	0.7166 ppm	0.0047 ppm	17.1350 ppm
Concentration per Run 3	-0.0003 ppm	117.2969 ppm	0.0915 ppm	0.0091 ppm	0.7165 ppm	0.0047 ppm	17.0737 ppm
Concentration RSD	84.9 %	0.1 %	2.3 %	20.7 %	0.2 %	2.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0686 ppm	0.1973 ppm	0.1693 ppm	166.4386 ppm	13.5926 ppm	0.1205 ppm
Concentration per Run 1	0.0021 ppm	0.0696 ppm	0.2000 ppm	0.1709 ppm	166.2892 ppm	13.6010 ppm	0.1221 ppm
Concentration per Run 2	0.0020 ppm	0.0683 ppm	0.1961 ppm	0.1694 ppm	166.5121 ppm	13.5829 ppm	0.1208 ppm
Concentration per Run 3	0.0021 ppm	0.0680 ppm	0.1958 ppm	0.1676 ppm	166.5145 ppm	13.5940 ppm	0.1185 ppm
Concentration RSD	3.2 %	1.2 %	1.2 %	1.0 %	0.1 %	0.1 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.3972 ppm	3.4587 ppm	0.0025 ppm	0.3535 ppm	0.1476 ppm	0.2434 ppm	0.0019 ppm
Concentration per Run 1	41.8364 ppm	3.4632 ppm	0.0028 ppm	0.3520 ppm	0.1500 ppm	0.2432 ppm	0.0024 ppm
Concentration per Run 2	41.1928 ppm	3.4568 ppm	0.0018 ppm	0.3525 ppm	0.1456 ppm	0.2442 ppm	0.0041 ppm
Concentration per Run 3	41.1623 ppm	3.4561 ppm	0.0030 ppm	0.3560 ppm	0.1471 ppm	0.2429 ppm	-0.0009 ppm
Concentration RSD	0.9 %	0.1 %	26.4 %	0.6 %	1.5 %	0.3 %	133.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	3.4563 ppm	0.0080 ppm	0.0535 ppm	6.2345 ppm	0.0045 ppm	0.2602 ppm
Concentration per Run 1	0.0001 ppm	3.4814 ppm	0.0075 ppm	0.0532 ppm	6.2992 ppm	0.0041 ppm	0.2628 ppm
Concentration per Run 2	-0.0043 ppm	3.4725 ppm	0.0076 ppm	0.0537 ppm	6.2016 ppm	0.0034 ppm	0.2584 ppm
Concentration per Run 3	0.0006 ppm	3.4150 ppm	0.0087 ppm	0.0536 ppm	6.2027 ppm	0.0060 ppm	0.2594 ppm
Concentration RSD	225.6 %	1.0 %	8.5 %	0.4 %	0.9 %	29.7 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5402 ppm	112.3647 %	112.1459 %	99.0392 %	134.6765 %	138.9363 %	137.2122 %
Concentration per Run 1	0.5504 ppm	111.3995 %	112.1771 %	98.6736 %	133.3072 %	138.8683 %	136.6750 %
Concentration per Run 2	0.5341 ppm	112.9531 %	112.1105 %	99.2859 %	135.4472 %	138.9761 %	137.7124 %
Concentration per Run 3	0.5361 ppm	112.7414 %	112.1500 %	99.1581 %	135.2751 %	138.9646 %	137.2492 %
Concentration RSD	1.6 %	0.7 %	0.0 %	0.3 %	0.9 %	0.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936261-3d2 WG1936261
Analysis started at: 6/19/2024 10:30:10 PM
Rack 3
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0411 ppm	110.1421 ppm	0.1811 ppm	0.7065 ppm	2.3140 ppm	0.0463 ppm	23.3951 ppm
Concentration per Run 1	0.0416 ppm	110.0381 ppm	0.1802 ppm	0.7090 ppm	2.3128 ppm	0.0465 ppm	23.3925 ppm
Concentration per Run 2	0.0408 ppm	110.2949 ppm	0.1827 ppm	0.7033 ppm	2.3251 ppm	0.0461 ppm	23.4345 ppm
Concentration per Run 3	0.0409 ppm	110.0931 ppm	0.1805 ppm	0.7071 ppm	2.3042 ppm	0.0462 ppm	23.3584 ppm
Concentration RSD	1.0 %	0.1 %	0.8 %	0.4 %	0.5 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0423 ppm	0.4588 ppm	0.3395 ppm	0.3553 ppm	150.4331 ppm	20.1680 ppm	0.1096 ppm
Concentration per Run 1	0.0425 ppm	0.4627 ppm	0.3406 ppm	0.3571 ppm	150.6199 ppm	20.2577 ppm	0.1106 ppm
Concentration per Run 2	0.0420 ppm	0.4562 ppm	0.3386 ppm	0.3536 ppm	150.7419 ppm	20.1928 ppm	0.1092 ppm
Concentration per Run 3	0.0423 ppm	0.4574 ppm	0.3393 ppm	0.3554 ppm	149.9375 ppm	20.0536 ppm	0.1092 ppm
Concentration RSD	0.6 %	0.8 %	0.3 %	0.5 %	0.3 %	0.5 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.1429 ppm	4.2565 ppm	0.7430 ppm	8.8287 ppm	0.5145 ppm	0.6655 ppm	0.3595 ppm
Concentration per Run 1	44.3739 ppm	4.2570 ppm	0.7375 ppm	8.8269 ppm	0.5180 ppm	0.6666 ppm	0.3607 ppm
Concentration per Run 2	44.0305 ppm	4.2559 ppm	0.7418 ppm	8.8192 ppm	0.5124 ppm	0.6660 ppm	0.3600 ppm
Concentration per Run 3	44.0242 ppm	4.2567 ppm	0.7497 ppm	8.8400 ppm	0.5129 ppm	0.6639 ppm	0.3577 ppm
Concentration RSD	0.5 %	0.0 %	0.8 %	0.1 %	0.6 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0732 ppm	4.7053 ppm	0.7510 ppm	0.8118 ppm	6.3403 ppm	0.1029 ppm	0.6380 ppm
Concentration per Run 1	0.0726 ppm	4.7658 ppm	0.7572 ppm	0.8160 ppm	6.3706 ppm	0.1020 ppm	0.6400 ppm
Concentration per Run 2	0.0753 ppm	4.6482 ppm	0.7449 ppm	0.8155 ppm	6.3261 ppm	0.1026 ppm	0.6366 ppm
Concentration per Run 3	0.0716 ppm	4.7018 ppm	0.7509 ppm	0.8040 ppm	6.3242 ppm	0.1041 ppm	0.6376 ppm
Concentration RSD	2.6 %	1.3 %	0.8 %	0.8 %	0.4 %	1.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8714 ppm	111.7121 %	108.8194 %	97.2483 %	130.0209 %	130.8937 %	131.2340 %
Concentration per Run 1	0.8742 ppm	111.2451 %	108.6923 %	97.3745 %	129.1034 %	130.8205 %	131.2981 %
Concentration per Run 2	0.8700 ppm	111.7619 %	108.6629 %	97.5875 %	130.1097 %	130.2112 %	131.6898 %
Concentration per Run 3	0.8701 ppm	112.1291 %	109.1029 %	96.7831 %	130.8496 %	131.6493 %	130.7140 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.4 %	0.7 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936261-4d2 WG1936261
Analysis started at: 6/19/2024 10:34:11 PM
Rack 3
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0421 ppm	134.0967 ppm	0.2009 ppm	0.7146 ppm	2.4970 ppm	0.0478 ppm	27.8491 ppm
Concentration per Run 1	0.0423 ppm	133.8486 ppm	0.1989 ppm	0.7159 ppm	2.4875 ppm	0.0479 ppm	27.8222 ppm
Concentration per Run 2	0.0415 ppm	133.8505 ppm	0.2022 ppm	0.7125 ppm	2.4896 ppm	0.0478 ppm	27.8457 ppm
Concentration per Run 3	0.0425 ppm	134.5910 ppm	0.2015 ppm	0.7154 ppm	2.5139 ppm	0.0477 ppm	27.8792 ppm
Concentration RSD	1.2 %	0.3 %	0.9 %	0.3 %	0.6 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0429 ppm	0.4712 ppm	0.3775 ppm	0.3863 ppm	186.8770 ppm	25.0462 ppm	0.1381 ppm
Concentration per Run 1	0.0428 ppm	0.4692 ppm	0.3769 ppm	0.3857 ppm	186.7428 ppm	24.9886 ppm	0.1391 ppm
Concentration per Run 2	0.0429 ppm	0.4703 ppm	0.3777 ppm	0.3847 ppm	187.0243 ppm	24.9509 ppm	0.1382 ppm
Concentration per Run 3	0.0429 ppm	0.4740 ppm	0.3778 ppm	0.3885 ppm	186.8640 ppm	25.1993 ppm	0.1370 ppm
Concentration RSD	0.2 %	0.5 %	0.1 %	0.5 %	0.1 %	0.5 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.8779 ppm	4.2545 ppm	0.7566 ppm	9.0258 ppm	0.5489 ppm	0.7205 ppm	0.3660 ppm
Concentration per Run 1	53.8408 ppm	4.2455 ppm	0.7465 ppm	9.0176 ppm	0.5491 ppm	0.7214 ppm	0.3624 ppm
Concentration per Run 2	53.8365 ppm	4.2500 ppm	0.7541 ppm	9.0418 ppm	0.5486 ppm	0.7196 ppm	0.3677 ppm
Concentration per Run 3	53.9565 ppm	4.2680 ppm	0.7693 ppm	9.0180 ppm	0.5491 ppm	0.7205 ppm	0.3679 ppm
Concentration RSD	0.1 %	0.3 %	1.5 %	0.2 %	0.1 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0695 ppm	4.7600 ppm	0.7586 ppm	0.8307 ppm	7.7132 ppm	0.1090 ppm	0.6957 ppm
Concentration per Run 1	0.0682 ppm	4.7566 ppm	0.7529 ppm	0.8292 ppm	7.7156 ppm	0.1072 ppm	0.6965 ppm
Concentration per Run 2	0.0688 ppm	4.7669 ppm	0.7592 ppm	0.8306 ppm	7.7035 ppm	0.1107 ppm	0.6960 ppm
Concentration per Run 3	0.0715 ppm	4.7564 ppm	0.7638 ppm	0.8322 ppm	7.7206 ppm	0.1091 ppm	0.6946 ppm
Concentration RSD	2.5 %	0.1 %	0.7 %	0.2 %	0.1 %	1.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9604 ppm	113.0912 %	110.3144 %	95.0742 %	137.3673 %	139.0906 %	137.3535 %
Concentration per Run 1	0.9602 ppm	113.2431 %	110.5800 %	95.3570 %	137.2510 %	139.6464 %	137.7715 %
Concentration per Run 2	0.9584 ppm	113.2621 %	110.6814 %	94.7642 %	137.1596 %	139.2554 %	137.0369 %
Concentration per Run 3	0.9626 ppm	112.7685 %	109.6817 %	95.1014 %	137.6914 %	138.3700 %	137.2523 %
Concentration RSD	0.2 %	0.2 %	0.5 %	0.3 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936261-5d2 WG1936261
Analysis started at: 6/19/2024 10:38:12 PM
Rack 3
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0434 ppm	116.9724 ppm	0.2093 ppm	0.8388 ppm	2.4219 ppm	0.0487 ppm	25.6050 ppm
Concentration per Run 1	0.0438 ppm	116.9010 ppm	0.2084 ppm	0.8386 ppm	2.4035 ppm	0.0486 ppm	25.5534 ppm
Concentration per Run 2	0.0429 ppm	117.0436 ppm	0.2089 ppm	0.8383 ppm	2.4264 ppm	0.0487 ppm	25.6818 ppm
Concentration per Run 3	0.0436 ppm	116.9726 ppm	0.2105 ppm	0.8395 ppm	2.4358 ppm	0.0488 ppm	25.5797 ppm
Concentration RSD	1.0 %	0.1 %	0.5 %	0.1 %	0.7 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0457 ppm	0.4772 ppm	0.3574 ppm	0.3842 ppm	164.5882 ppm	23.2140 ppm	0.1171 ppm
Concentration per Run 1	0.0459 ppm	0.4780 ppm	0.3593 ppm	0.3845 ppm	164.1232 ppm	23.2130 ppm	0.1175 ppm
Concentration per Run 2	0.0455 ppm	0.4758 ppm	0.3553 ppm	0.3839 ppm	164.2644 ppm	23.3036 ppm	0.1177 ppm
Concentration per Run 3	0.0457 ppm	0.4777 ppm	0.3577 ppm	0.3841 ppm	165.3770 ppm	23.1256 ppm	0.1161 ppm
Concentration RSD	0.5 %	0.3 %	0.6 %	0.1 %	0.4 %	0.4 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	48.7542 ppm	3.8306 ppm	0.8364 ppm	9.9126 ppm	0.5567 ppm	0.7477 ppm	0.4281 ppm
Concentration per Run 1	49.0697 ppm	3.8295 ppm	0.8283 ppm	9.8901 ppm	0.5606 ppm	0.7476 ppm	0.4245 ppm
Concentration per Run 2	48.4824 ppm	3.8294 ppm	0.8344 ppm	9.9183 ppm	0.5522 ppm	0.7464 ppm	0.4298 ppm
Concentration per Run 3	48.7105 ppm	3.8329 ppm	0.8466 ppm	9.9295 ppm	0.5572 ppm	0.7490 ppm	0.4299 ppm
Concentration RSD	0.6 %	0.1 %	1.1 %	0.2 %	0.8 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0807 ppm	4.2306 ppm	0.8514 ppm	0.9071 ppm	6.9563 ppm	0.1177 ppm	0.6769 ppm
Concentration per Run 1	0.0797 ppm	4.2746 ppm	0.8533 ppm	0.9013 ppm	7.0009 ppm	0.1158 ppm	0.6801 ppm
Concentration per Run 2	0.0802 ppm	4.2021 ppm	0.8433 ppm	0.9075 ppm	6.9144 ppm	0.1184 ppm	0.6759 ppm
Concentration per Run 3	0.0821 ppm	4.2152 ppm	0.8576 ppm	0.9124 ppm	6.9534 ppm	0.1188 ppm	0.6749 ppm
Concentration RSD	1.5 %	0.9 %	0.9 %	0.6 %	0.6 %	1.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9363 ppm	112.3398 %	110.4506 %	96.8218 %	133.8070 %	136.6268 %	135.1684 %
Concentration per Run 1	0.9410 ppm	112.2089 %	110.5572 %	96.8601 %	133.5519 %	136.6780 %	134.9576 %
Concentration per Run 2	0.9314 ppm	113.0669 %	110.8019 %	96.8662 %	134.5903 %	137.5051 %	135.3031 %
Concentration per Run 3	0.9363 ppm	111.7437 %	109.9928 %	96.7392 %	133.2787 %	135.6974 %	135.2446 %
Concentration RSD	0.5 %	0.6 %	0.4 %	0.1 %	0.5 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936261-6d10 WG1936261
Analysis started at: 6/19/2024 10:42:13 PM
Rack 3
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	24.6467 ppm	0.0173 ppm	0.0014 ppm	0.1495 ppm	0.0010 ppm	3.6174 ppm
Concentration per Run 1	0.0004 ppm	24.6328 ppm	0.0171 ppm	0.0009 ppm	0.1495 ppm	0.0010 ppm	3.6189 ppm
Concentration per Run 2	-0.0002 ppm	24.6038 ppm	0.0153 ppm	0.0017 ppm	0.1493 ppm	0.0010 ppm	3.6105 ppm
Concentration per Run 3	0.0004 ppm	24.7036 ppm	0.0195 ppm	0.0016 ppm	0.1499 ppm	0.0009 ppm	3.6227 ppm
Concentration RSD	173.2 %	0.2 %	12.0 %	31.6 %	0.2 %	3.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0150 ppm	0.0417 ppm	0.0345 ppm	35.9354 ppm	2.8359 ppm	0.0251 ppm
Concentration per Run 1	0.0005 ppm	0.0151 ppm	0.0425 ppm	0.0348 ppm	36.0217 ppm	2.8358 ppm	0.0250 ppm
Concentration per Run 2	0.0005 ppm	0.0148 ppm	0.0415 ppm	0.0345 ppm	35.8051 ppm	2.8357 ppm	0.0247 ppm
Concentration per Run 3	0.0004 ppm	0.0151 ppm	0.0410 ppm	0.0343 ppm	35.9794 ppm	2.8362 ppm	0.0256 ppm
Concentration RSD	10.1 %	1.2 %	1.9 %	0.7 %	0.3 %	0.0 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.8643 ppm	0.7358 ppm	0.0021 ppm	0.0906 ppm	0.0317 ppm	0.0470 ppm	0.0011 ppm
Concentration per Run 1	9.0032 ppm	0.7350 ppm	0.0020 ppm	0.0918 ppm	0.0322 ppm	0.0476 ppm	0.0009 ppm
Concentration per Run 2	8.8267 ppm	0.7352 ppm	0.0021 ppm	0.0934 ppm	0.0309 ppm	0.0476 ppm	0.0002 ppm
Concentration per Run 3	8.7630 ppm	0.7371 ppm	0.0020 ppm	0.0867 ppm	0.0321 ppm	0.0458 ppm	0.0021 ppm
Concentration RSD	1.4 %	0.2 %	3.6 %	3.8 %	2.4 %	2.3 %	91.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.7183 ppm	0.0027 ppm	0.0110 ppm	1.3074 ppm	0.0014 ppm	0.0535 ppm
Concentration per Run 1	-0.0001 ppm	0.7418 ppm	0.0015 ppm	0.0110 ppm	1.3248 ppm	0.0029 ppm	0.0541 ppm
Concentration per Run 2	-0.0005 ppm	0.7190 ppm	0.0029 ppm	0.0111 ppm	1.2998 ppm	-0.0008 ppm	0.0533 ppm
Concentration per Run 3	-0.0035 ppm	0.6940 ppm	0.0037 ppm	0.0110 ppm	1.2976 ppm	0.0022 ppm	0.0530 ppm
Concentration RSD	136.2 %	3.3 %	40.5 %	0.7 %	1.2 %	139.8 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1175 ppm	107.5303 %	105.0786 %	104.6686 %	108.4736 %	108.3166 %	110.5600 %
Concentration per Run 1	0.1196 ppm	106.0973 %	105.2475 %	104.8883 %	107.2369 %	108.9816 %	110.5510 %
Concentration per Run 2	0.1168 ppm	107.8276 %	104.5804 %	104.4787 %	108.5827 %	107.5704 %	110.2756 %
Concentration per Run 3	0.1162 ppm	108.6659 %	105.4078 %	104.6389 %	109.6012 %	108.3979 %	110.8534 %
Concentration RSD	1.5 %	1.2 %	0.4 %	0.2 %	1.1 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 10:46:14 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4698 ppm	0.4677 ppm	0.4463 ppm	0.4559 ppm	0.4772 ppm	0.4850 ppm	0.4677 ppm
Concentration per Run 1	0.4736 ppm	0.4639 ppm	0.4449 ppm	0.4614 ppm	0.4776 ppm	0.4855 ppm	0.4684 ppm
Concentration per Run 2	0.4687 ppm	0.4689 ppm	0.4465 ppm	0.4530 ppm	0.4770 ppm	0.4850 ppm	0.4668 ppm
Concentration per Run 3	0.4670 ppm	0.4704 ppm	0.4473 ppm	0.4534 ppm	0.4770 ppm	0.4845 ppm	0.4680 ppm
Recovery Percentage 1	93.954 %	93.544 %	89.250 %	91.182 %	95.436 %	96.996 %	93.546 %
Concentration RSD	0.7 %	0.7 %	0.3 %	1.0 %	0.1 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4668 ppm	0.4744 ppm	0.4649 ppm	0.4552 ppm	0.5061 ppm	5.3479 ppm	0.4987 ppm
Concentration per Run 1	0.4718 ppm	0.4800 ppm	0.4691 ppm	0.4603 ppm	0.5050 ppm	5.3781 ppm	0.4963 ppm
Concentration per Run 2	0.4654 ppm	0.4720 ppm	0.4632 ppm	0.4541 ppm	0.5060 ppm	5.3532 ppm	0.5000 ppm
Concentration per Run 3	0.4632 ppm	0.4711 ppm	0.4622 ppm	0.4513 ppm	0.5072 ppm	5.3126 ppm	0.4997 ppm
Recovery Percentage 1	93.363 %	94.872 %	92.973 %	91.047 %	101.210 %	106.959 %	99.732 %
Concentration RSD	1.0 %	1.0 %	0.8 %	1.0 %	0.2 %	0.6 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4614 ppm	0.4883 ppm	0.4555 ppm	10.1964 ppm	0.4778 ppm	0.4608 ppm	0.4555 ppm
Concentration per Run 1	0.4675 ppm	0.4871 ppm	0.4559 ppm	10.2150 ppm	0.4847 ppm	0.4616 ppm	0.4573 ppm
Concentration per Run 2	0.4584 ppm	0.4878 ppm	0.4549 ppm	10.1827 ppm	0.4752 ppm	0.4595 ppm	0.4569 ppm
Concentration per Run 3	0.4584 ppm	0.4898 ppm	0.4556 ppm	10.1913 ppm	0.4734 ppm	0.4612 ppm	0.4523 ppm
Recovery Percentage 1	92.286 %	97.652 %	91.092 %	101.964 %	95.555 %	92.158 %	91.097 %
Concentration RSD	1.1 %	0.3 %	0.1 %	0.2 %	1.3 %	0.2 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4527 ppm	4.8301 ppm	0.4833 ppm	0.4713 ppm	0.4700 ppm	0.4485 ppm	0.4635 ppm
Concentration per Run 1	0.4522 ppm	4.8635 ppm	0.4886 ppm	0.4730 ppm	0.4749 ppm	0.4471 ppm	0.4677 ppm
Concentration per Run 2	0.4510 ppm	4.8178 ppm	0.4819 ppm	0.4703 ppm	0.4683 ppm	0.4481 ppm	0.4623 ppm
Concentration per Run 3	0.4548 ppm	4.8092 ppm	0.4793 ppm	0.4707 ppm	0.4668 ppm	0.4504 ppm	0.4603 ppm
Recovery Percentage 1	90.531 %	92.003 %	96.655 %	94.262 %	94.000 %	89.704 %	92.691 %
Concentration RSD	0.4 %	0.6 %	1.0 %	0.3 %	0.9 %	0.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4754 ppm	107.4901 %	102.8175 %	105.8526 %	100.7671 %	99.5038 %	102.8469 %
Concentration per Run 1	0.4813 ppm	106.5920 %	102.2757 %	106.4137 %	99.8257 %	98.9167 %	103.1413 %
Concentration per Run 2	0.4734 ppm	107.7151 %	103.1981 %	105.1151 %	100.9446 %	99.9642 %	102.5323 %
Concentration per Run 3	0.4715 ppm	108.1633 %	102.9786 %	106.0291 %	101.5309 %	99.6305 %	102.8671 %
Recovery Percentage 1	95.079 %						
Concentration RSD	1.1 %	0.8 %	0.5 %	0.6 %	0.9 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 10:50:14 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0004 ppm	-0.0011 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0011 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0024 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	-0.0005 ppm	-0.0028 ppm	-0.0020 ppm	-0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0030 ppm
Recovery Percentage 1	-2.760 %	-0.389 %	-37.549 %	-0.153 %	-3.881 %	1.123 %	2.168 %
Concentration RSD	153.0 %	539.7 %	169.9 %	762.7 %	15.2 %	28.7 %	47.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0052 ppm	-0.0034 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0045 ppm	0.0298 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0049 ppm	-0.0141 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0062 ppm	-0.0259 ppm	-0.0003 ppm
Recovery Percentage 1	0.917 %	0.149 %	-2.549 %	0.002 %	10.380 %	-0.135 %	4.222 %
Concentration RSD	135.2 %	367.6 %	78.8 %	160,231.7 %	17.2 %	866.9 %	245.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0087 ppm	-0.0003 ppm	-0.0016 ppm	-0.0009 ppm
Concentration per Run 1	-0.0013 ppm	-0.0003 ppm	0.0016 ppm	0.0079 ppm	-0.0004 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.0010 ppm	-0.0001 ppm	0.0010 ppm	0.0122 ppm	-0.0010 ppm	-0.0019 ppm	-0.0018 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0013 ppm	0.0060 ppm	0.0003 ppm	-0.0016 ppm	-0.0006 ppm
Recovery Percentage 1	0.006 %	-0.104 %	2.589 %	0.435 %	-1.345 %	-15.634 %	-1.757 %
Concentration RSD	19,698.5 %	2,883.8 %	21.4 %	36.8 %	187.3 %	24.4 %	95.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	0.0014 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0025 ppm	0.0010 ppm	0.0006 ppm	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0024 ppm	0.0010 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	-0.0016 ppm	0.0022 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-21.713 %	0.285 %	-0.197 %	1.159 %	-0.759 %	0.496 %	1.303 %
Concentration RSD	21.3 %	48.3 %	822.7 %	93.2 %	139.7 %	335.6 %	64.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	101.4910 %	99.3460 %	102.6970 %	100.8677 %	99.6626 %	103.5344 %
Concentration per Run 1	0.0007 ppm	99.6628 %	98.7680 %	101.6453 %	99.5625 %	99.4976 %	102.6507 %
Concentration per Run 2	0.0003 ppm	102.2117 %	99.1233 %	103.3941 %	101.5438 %	99.3679 %	103.9949 %
Concentration per Run 3	0.0003 ppm	102.5985 %	100.1468 %	103.0515 %	101.4969 %	100.1225 %	103.9577 %
Recovery Percentage 1	8.393 %						
Concentration RSD	53.0 %	1.6 %	0.7 %	0.9 %	1.1 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936007-1 WG1936007
Analysis started at: 6/19/2024 10:56:20 PM
Rack 3
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0083 ppm
Concentration per Run 1	0.0001 ppm	-0.0033 ppm	0.0006 ppm	-0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 2	-0.0002 ppm	0.0065 ppm	-0.0004 ppm	-0.0008 ppm	-0.0007 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 3	0.0005 ppm	-0.0028 ppm	0.0001 ppm	0.0019 ppm	-0.0004 ppm	0.0000 ppm	0.0078 ppm
Concentration RSD	254.8 %	3,616.3 %	426.2 %	584.7 %	42.6 %	131.5 %	13.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0009 ppm	-0.0131 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0003 ppm	0.0018 ppm	0.0036 ppm	-0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0016 ppm	-0.0235 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0025 ppm	-0.0193 ppm	0.0005 ppm
Concentration RSD	96.9 %	1,071.3 %	294.0 %	25.5 %	246.2 %	111.7 %	156.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0020 ppm	0.0001 ppm	-0.0005 ppm	0.0077 ppm	0.0001 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 1	0.0028 ppm	0.0002 ppm	-0.0002 ppm	0.0121 ppm	0.0006 ppm	-0.0010 ppm	-0.0015 ppm
Concentration per Run 2	0.0025 ppm	0.0000 ppm	-0.0006 ppm	0.0072 ppm	0.0001 ppm	-0.0010 ppm	-0.0010 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	-0.0005 ppm	0.0038 ppm	-0.0003 ppm	-0.0019 ppm	0.0055 ppm
Concentration RSD	56.7 %	95.2 %	50.3 %	54.2 %	339.4 %	40.8 %	389.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	0.0086 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0025 ppm	0.0171 ppm	-0.0015 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 2	-0.0025 ppm	0.0039 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 3	-0.0016 ppm	0.0048 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0000 ppm
Concentration RSD	23.2 %	85.6 %	145.3 %	72.4 %	574.4 %	604.2 %	3,579.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	101.8328 %	99.7434 %	103.3398 %	104.2020 %	101.4433 %	105.7933 %
Concentration per Run 1	0.0010 ppm	100.5129 %	98.9428 %	102.9803 %	103.5616 %	100.5228 %	105.9328 %
Concentration per Run 2	0.0011 ppm	102.4457 %	100.3626 %	103.5677 %	104.8977 %	102.2831 %	105.8254 %
Concentration per Run 3	0.0010 ppm	102.5399 %	99.9249 %	103.4713 %	104.1468 %	101.5240 %	105.6217 %
Concentration RSD	6.4 %	1.1 %	0.7 %	0.3 %	0.6 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936007-2 WG1936007
Analysis started at: 6/19/2024 11:02:36 PM
Rack 3
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0401 ppm	1.7672 ppm	0.0989 ppm	0.7692 ppm	1.7722 ppm	0.0449 ppm	9.0246 ppm
Concentration per Run 1	0.0395 ppm	1.7519 ppm	0.0978 ppm	0.7583 ppm	1.7590 ppm	0.0448 ppm	8.9873 ppm
Concentration per Run 2	0.0400 ppm	1.7816 ppm	0.0982 ppm	0.7735 ppm	1.7779 ppm	0.0447 ppm	9.0518 ppm
Concentration per Run 3	0.0407 ppm	1.7683 ppm	0.1007 ppm	0.7759 ppm	1.7797 ppm	0.0451 ppm	9.0348 ppm
Concentration RSD	1.5 %	0.8 %	1.6 %	1.2 %	0.6 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0424 ppm	0.3951 ppm	0.1577 ppm	0.1978 ppm	0.9265 ppm	10.0893 ppm	0.0022 ppm
Concentration per Run 1	0.0415 ppm	0.3884 ppm	0.1551 ppm	0.1948 ppm	0.9202 ppm	9.9348 ppm	0.0035 ppm
Concentration per Run 2	0.0425 ppm	0.3967 ppm	0.1574 ppm	0.1985 ppm	0.9244 ppm	10.1502 ppm	0.0030 ppm
Concentration per Run 3	0.0433 ppm	0.4001 ppm	0.1605 ppm	0.2002 ppm	0.9347 ppm	10.1830 ppm	0.0000 ppm
Concentration RSD	2.1 %	1.5 %	1.7 %	1.4 %	0.8 %	1.3 %	86.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.9390 ppm	0.4615 ppm	0.7526 ppm	9.7639 ppm	0.3969 ppm	0.4599 ppm	0.3339 ppm
Concentration per Run 1	7.8071 ppm	0.4582 ppm	0.7317 ppm	9.7535 ppm	0.3899 ppm	0.4565 ppm	0.3232 ppm
Concentration per Run 2	7.9387 ppm	0.4629 ppm	0.7573 ppm	9.7873 ppm	0.3970 ppm	0.4597 ppm	0.3353 ppm
Concentration per Run 3	8.0711 ppm	0.4633 ppm	0.7689 ppm	9.7511 ppm	0.4040 ppm	0.4635 ppm	0.3431 ppm
Concentration RSD	1.7 %	0.6 %	2.5 %	0.2 %	1.8 %	0.8 %	3.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1045 ppm	0.8467 ppm	0.7815 ppm	0.8600 ppm	0.8133 ppm	0.1043 ppm	0.4024 ppm
Concentration per Run 1	0.1028 ppm	0.8359 ppm	0.7685 ppm	0.8613 ppm	0.7998 ppm	0.1031 ppm	0.3952 ppm
Concentration per Run 2	0.1066 ppm	0.8506 ppm	0.7836 ppm	0.8561 ppm	0.8135 ppm	0.1059 ppm	0.4028 ppm
Concentration per Run 3	0.1042 ppm	0.8536 ppm	0.7925 ppm	0.8625 ppm	0.8265 ppm	0.1041 ppm	0.4092 ppm
Concentration RSD	1.8 %	1.1 %	1.5 %	0.4 %	1.6 %	1.4 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3972 ppm	127.3708 %	109.3214 %	116.7850 %	106.4631 %	99.7971 %	105.9125 %
Concentration per Run 1	0.3917 ppm	129.3603 %	110.2018 %	117.5326 %	106.1470 %	100.2176 %	106.0516 %
Concentration per Run 2	0.3974 ppm	127.3326 %	108.9251 %	116.9852 %	106.8769 %	99.4582 %	106.0773 %
Concentration per Run 3	0.4024 ppm	125.4194 %	108.8375 %	115.8372 %	106.3653 %	99.7155 %	105.6086 %
Concentration RSD	1.4 %	1.5 %	0.7 %	0.7 %	0.4 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433303-01 WG1936007
Analysis started at: 6/19/2024 11:06:58 PM
Rack 3
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.3532 ppm	0.0013 ppm	0.0035 ppm	0.0041 ppm	0.0000 ppm	7.7601 ppm
Concentration per Run 1	0.0000 ppm	0.3469 ppm	0.0015 ppm	0.0035 ppm	0.0040 ppm	0.0000 ppm	7.7479 ppm
Concentration per Run 2	-0.0005 ppm	0.3619 ppm	0.0013 ppm	0.0045 ppm	0.0040 ppm	0.0000 ppm	7.7682 ppm
Concentration per Run 3	0.0000 ppm	0.3509 ppm	0.0012 ppm	0.0025 ppm	0.0042 ppm	0.0001 ppm	7.7642 ppm
Concentration RSD	162.7 %	2.2 %	13.6 %	28.6 %	3.0 %	23.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0020 ppm	0.5993 ppm	0.8320 ppm	-0.0003 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0006 ppm	0.0022 ppm	0.5990 ppm	0.8464 ppm	0.0024 ppm
Concentration per Run 2	0.0003 ppm	0.0001 ppm	0.0008 ppm	0.0021 ppm	0.5958 ppm	0.8140 ppm	-0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0017 ppm	0.6031 ppm	0.8355 ppm	-0.0022 ppm
Concentration RSD	39.6 %	74.2 %	20.7 %	13.5 %	0.6 %	2.0 %	701.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1603 ppm	0.0136 ppm	0.0028 ppm	7.8973 ppm	0.0006 ppm	0.0003 ppm	-0.0013 ppm
Concentration per Run 1	1.1841 ppm	0.0135 ppm	0.0031 ppm	7.9269 ppm	0.0003 ppm	0.0003 ppm	-0.0046 ppm
Concentration per Run 2	1.1554 ppm	0.0137 ppm	0.0026 ppm	7.8666 ppm	0.0012 ppm	0.0002 ppm	-0.0014 ppm
Concentration per Run 3	1.1414 ppm	0.0136 ppm	0.0028 ppm	7.8984 ppm	0.0002 ppm	0.0005 ppm	0.0021 ppm
Concentration RSD	1.9 %	0.7 %	8.4 %	0.4 %	98.5 %	50.6 %	257.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	7.7417 ppm	0.0028 ppm	0.0602 ppm	0.0215 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	0.0002 ppm	7.9234 ppm	0.0035 ppm	0.0602 ppm	0.0218 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0021 ppm	7.6893 ppm	0.0026 ppm	0.0602 ppm	0.0215 ppm	-0.0012 ppm	0.0009 ppm
Concentration per Run 3	-0.0026 ppm	7.6123 ppm	0.0023 ppm	0.0601 ppm	0.0212 ppm	0.0018 ppm	0.0007 ppm
Concentration RSD	102.5 %	2.1 %	21.9 %	0.1 %	1.4 %	553.7 %	25.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0068 ppm	103.5938 %	101.6723 %	104.3702 %	104.2458 %	102.0673 %	105.8722 %
Concentration per Run 1	0.0071 ppm	101.6194 %	101.7901 %	103.9033 %	103.3260 %	102.3550 %	105.3796 %
Concentration per Run 2	0.0067 ppm	104.3634 %	101.2576 %	104.8735 %	104.9438 %	101.6030 %	106.2694 %
Concentration per Run 3	0.0065 ppm	104.7985 %	101.9691 %	104.3339 %	104.4677 %	102.2439 %	105.9676 %
Concentration RSD	4.1 %	1.7 %	0.4 %	0.5 %	0.8 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936007-3 WG1936007
Analysis started at: 6/19/2024 11:10:58 PM
Rack 3
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0487 ppm	2.1962 ppm	0.1168 ppm	0.9638 ppm	1.9003 ppm	0.0485 ppm	17.2191 ppm
Concentration per Run 1	0.0496 ppm	2.1848 ppm	0.1161 ppm	0.9816 ppm	1.8809 ppm	0.0488 ppm	17.2415 ppm
Concentration per Run 2	0.0485 ppm	2.2014 ppm	0.1176 ppm	0.9648 ppm	1.9091 ppm	0.0485 ppm	17.2157 ppm
Concentration per Run 3	0.0480 ppm	2.2026 ppm	0.1168 ppm	0.9449 ppm	1.9108 ppm	0.0483 ppm	17.2003 ppm
Concentration RSD	1.6 %	0.5 %	0.6 %	1.9 %	0.9 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0518 ppm	0.4797 ppm	0.1911 ppm	0.2414 ppm	1.5106 ppm	11.4675 ppm	0.0010 ppm
Concentration per Run 1	0.0525 ppm	0.4881 ppm	0.1941 ppm	0.2453 ppm	1.5083 ppm	11.4262 ppm	0.0014 ppm
Concentration per Run 2	0.0522 ppm	0.4804 ppm	0.1922 ppm	0.2416 ppm	1.5119 ppm	11.4405 ppm	0.0002 ppm
Concentration per Run 3	0.0507 ppm	0.4705 ppm	0.1869 ppm	0.2373 ppm	1.5114 ppm	11.5358 ppm	0.0013 ppm
Concentration RSD	1.8 %	1.8 %	1.9 %	1.6 %	0.1 %	0.5 %	71.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7652 ppm	0.5067 ppm	0.8610 ppm	17.9945 ppm	0.4839 ppm	0.5132 ppm	0.3962 ppm
Concentration per Run 1	10.9762 ppm	0.5055 ppm	0.8635 ppm	18.0033 ppm	0.4901 ppm	0.5150 ppm	0.3979 ppm
Concentration per Run 2	10.7225 ppm	0.5068 ppm	0.8642 ppm	18.0346 ppm	0.4864 ppm	0.5131 ppm	0.3976 ppm
Concentration per Run 3	10.5969 ppm	0.5077 ppm	0.8553 ppm	17.9456 ppm	0.4751 ppm	0.5115 ppm	0.3931 ppm
Concentration RSD	1.8 %	0.2 %	0.6 %	0.3 %	1.6 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1115 ppm	8.8080 ppm	0.9360 ppm	0.9832 ppm	0.9946 ppm	0.1143 ppm	0.4844 ppm
Concentration per Run 1	0.1126 ppm	8.9738 ppm	0.9425 ppm	0.9883 ppm	1.0126 ppm	0.1139 ppm	0.4916 ppm
Concentration per Run 2	0.1121 ppm	8.7964 ppm	0.9440 ppm	0.9862 ppm	0.9917 ppm	0.1142 ppm	0.4845 ppm
Concentration per Run 3	0.1097 ppm	8.6540 ppm	0.9215 ppm	0.9749 ppm	0.9794 ppm	0.1148 ppm	0.4770 ppm
Concentration RSD	1.4 %	1.8 %	1.3 %	0.7 %	1.7 %	0.4 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4983 ppm	103.3309 %	102.9110 %	102.4215 %	102.5909 %	101.7892 %	104.2646 %
Concentration per Run 1	0.5056 ppm	101.8571 %	103.3299 %	101.7345 %	101.8776 %	102.6802 %	103.6019 %
Concentration per Run 2	0.5011 ppm	103.3485 %	102.0984 %	102.8718 %	102.6166 %	100.5951 %	105.0199 %
Concentration per Run 3	0.4883 ppm	104.7870 %	103.3046 %	102.6581 %	103.2785 %	102.0923 %	104.1719 %
Concentration RSD	1.8 %	1.4 %	0.7 %	0.6 %	0.7 %	1.1 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936007-4 WG1936007
Analysis started at: 6/19/2024 11:14:59 PM
Rack 3
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.3054 ppm	0.0002 ppm	0.0035 ppm	0.0042 ppm	0.0001 ppm	8.1113 ppm
Concentration per Run 1	0.0000 ppm	0.3089 ppm	-0.0014 ppm	0.0022 ppm	0.0043 ppm	0.0000 ppm	8.1054 ppm
Concentration per Run 2	0.0000 ppm	0.3053 ppm	0.0019 ppm	0.0039 ppm	0.0041 ppm	0.0000 ppm	8.1187 ppm
Concentration per Run 3	-0.0002 ppm	0.3020 ppm	0.0000 ppm	0.0043 ppm	0.0042 ppm	0.0001 ppm	8.1098 ppm
Concentration RSD	181.0 %	1.1 %	989.3 %	31.6 %	2.1 %	85.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0022 ppm	0.4773 ppm	0.8602 ppm	0.0003 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	0.0002 ppm	0.0023 ppm	0.4749 ppm	0.8773 ppm	0.0029 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0022 ppm	0.4786 ppm	0.8634 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0004 ppm	0.0010 ppm	0.0021 ppm	0.4784 ppm	0.8397 ppm	-0.0018 ppm
Concentration RSD	22.0 %	130.7 %	60.5 %	5.0 %	0.4 %	2.2 %	871.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2063 ppm	0.0144 ppm	0.0023 ppm	8.2504 ppm	0.0002 ppm	-0.0008 ppm	0.0008 ppm
Concentration per Run 1	1.2371 ppm	0.0143 ppm	0.0023 ppm	8.2606 ppm	0.0001 ppm	-0.0008 ppm	0.0012 ppm
Concentration per Run 2	1.1982 ppm	0.0146 ppm	0.0022 ppm	8.2533 ppm	0.0004 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 3	1.1836 ppm	0.0144 ppm	0.0024 ppm	8.2374 ppm	0.0002 ppm	-0.0009 ppm	0.0018 ppm
Concentration RSD	2.3 %	0.9 %	2.8 %	0.1 %	61.2 %	19.9 %	175.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0027 ppm	8.0289 ppm	0.0016 ppm	0.0627 ppm	0.0176 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 1	-0.0028 ppm	8.1874 ppm	0.0003 ppm	0.0624 ppm	0.0179 ppm	0.0021 ppm	0.0008 ppm
Concentration per Run 2	-0.0024 ppm	8.0136 ppm	0.0026 ppm	0.0630 ppm	0.0176 ppm	0.0013 ppm	0.0005 ppm
Concentration per Run 3	-0.0030 ppm	7.8858 ppm	0.0018 ppm	0.0627 ppm	0.0172 ppm	-0.0007 ppm	0.0008 ppm
Concentration RSD	9.8 %	1.9 %	74.1 %	0.5 %	2.0 %	166.8 %	18.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0074 ppm	101.4236 %	100.5962 %	103.8282 %	104.3356 %	102.8476 %	106.7972 %
Concentration per Run 1	0.0075 ppm	99.1779 %	101.4315 %	103.6989 %	103.0998 %	104.0388 %	107.4917 %
Concentration per Run 2	0.0075 ppm	102.4266 %	100.0817 %	103.5934 %	105.3692 %	102.3818 %	106.6773 %
Concentration per Run 3	0.0072 ppm	102.6664 %	100.2755 %	104.1923 %	104.5378 %	102.1221 %	106.2225 %
Concentration RSD	2.3 %	1.9 %	0.7 %	0.3 %	1.1 %	1.0 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936007-5 WG1936007
Analysis started at: 6/19/2024 11:19:00 PM
Rack 3
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0460 ppm	2.0972 ppm	0.1092 ppm	0.9246 ppm	1.8105 ppm	0.0461 ppm	16.3830 ppm
Concentration per Run 1	0.0471 ppm	2.1037 ppm	0.1084 ppm	0.9389 ppm	1.8114 ppm	0.0460 ppm	16.4042 ppm
Concentration per Run 2	0.0453 ppm	2.1066 ppm	0.1076 ppm	0.9226 ppm	1.8177 ppm	0.0463 ppm	16.4028 ppm
Concentration per Run 3	0.0456 ppm	2.0814 ppm	0.1116 ppm	0.9123 ppm	1.8025 ppm	0.0461 ppm	16.3421 ppm
Concentration RSD	2.1 %	0.7 %	1.9 %	1.5 %	0.4 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0493 ppm	0.4550 ppm	0.1809 ppm	0.2294 ppm	1.4951 ppm	11.0500 ppm	-0.0002 ppm
Concentration per Run 1	0.0501 ppm	0.4629 ppm	0.1836 ppm	0.2345 ppm	1.4968 ppm	11.0390 ppm	-0.0006 ppm
Concentration per Run 2	0.0494 ppm	0.4549 ppm	0.1807 ppm	0.2283 ppm	1.4978 ppm	11.0703 ppm	-0.0002 ppm
Concentration per Run 3	0.0485 ppm	0.4472 ppm	0.1784 ppm	0.2253 ppm	1.4907 ppm	11.0408 ppm	0.0000 ppm
Concentration RSD	1.5 %	1.7 %	1.4 %	2.0 %	0.3 %	0.2 %	114.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3637 ppm	0.4800 ppm	0.8231 ppm	17.1382 ppm	0.4587 ppm	0.4933 ppm	0.3433 ppm
Concentration per Run 1	10.5606 ppm	0.4809 ppm	0.8217 ppm	17.1492 ppm	0.4670 ppm	0.4930 ppm	0.3427 ppm
Concentration per Run 2	10.3291 ppm	0.4798 ppm	0.8267 ppm	17.2262 ppm	0.4582 ppm	0.4927 ppm	0.3449 ppm
Concentration per Run 3	10.2015 ppm	0.4794 ppm	0.8208 ppm	17.0393 ppm	0.4510 ppm	0.4943 ppm	0.3423 ppm
Concentration RSD	1.8 %	0.2 %	0.4 %	0.5 %	1.7 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1076 ppm	8.2814 ppm	0.9026 ppm	0.9445 ppm	0.9564 ppm	0.1099 ppm	0.4595 ppm
Concentration per Run 1	0.1091 ppm	8.4154 ppm	0.9057 ppm	0.9405 ppm	0.9731 ppm	0.1100 ppm	0.4673 ppm
Concentration per Run 2	0.1041 ppm	8.2800 ppm	0.9026 ppm	0.9486 ppm	0.9532 ppm	0.1088 ppm	0.4583 ppm
Concentration per Run 3	0.1097 ppm	8.1489 ppm	0.8997 ppm	0.9443 ppm	0.9427 ppm	0.1108 ppm	0.4530 ppm
Concentration RSD	2.9 %	1.6 %	0.3 %	0.4 %	1.6 %	0.9 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4722 ppm	103.7112 %	103.2997 %	102.9770 %	102.8306 %	102.2396 %	104.3961 %
Concentration per Run 1	0.4804 ppm	102.1834 %	103.7112 %	103.0205 %	102.3659 %	103.2047 %	104.7083 %
Concentration per Run 2	0.4718 ppm	104.0539 %	102.9493 %	102.6997 %	103.1453 %	101.7971 %	104.1208 %
Concentration per Run 3	0.4643 ppm	104.8961 %	103.2386 %	103.2107 %	102.9806 %	101.7170 %	104.3591 %
Concentration RSD	1.7 %	1.3 %	0.4 %	0.3 %	0.4 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936007-6d5 WG1936007
Analysis started at: 6/19/2024 11:23:02 PM
Rack 3
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0682 ppm	-0.0005 ppm	0.0016 ppm	0.0007 ppm	0.0000 ppm	1.4857 ppm
Concentration per Run 1	-0.0001 ppm	0.0700 ppm	-0.0008 ppm	0.0014 ppm	0.0006 ppm	0.0000 ppm	1.4897 ppm
Concentration per Run 2	0.0002 ppm	0.0716 ppm	-0.0002 ppm	0.0012 ppm	0.0007 ppm	0.0001 ppm	1.4872 ppm
Concentration per Run 3	0.0000 ppm	0.0631 ppm	-0.0003 ppm	0.0022 ppm	0.0009 ppm	0.0000 ppm	1.4801 ppm
Concentration RSD	24,028.0 %	6.6 %	72.4 %	33.3 %	23.9 %	726.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.1204 ppm	0.1683 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0006 ppm	0.1221 ppm	0.1819 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.1207 ppm	0.1636 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0008 ppm	0.1185 ppm	0.1595 ppm	-0.0008 ppm
Concentration RSD	435.9 %	1,290.3 %	430.5 %	52.7 %	1.5 %	7.1 %	1,637.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2232 ppm	0.0028 ppm	0.0039 ppm	1.5564 ppm	0.0003 ppm	-0.0018 ppm	0.0045 ppm
Concentration per Run 1	0.2297 ppm	0.0029 ppm	0.0041 ppm	1.5614 ppm	0.0005 ppm	-0.0012 ppm	0.0052 ppm
Concentration per Run 2	0.2211 ppm	0.0026 ppm	0.0037 ppm	1.5632 ppm	-0.0001 ppm	-0.0029 ppm	0.0032 ppm
Concentration per Run 3	0.2189 ppm	0.0030 ppm	0.0040 ppm	1.5445 ppm	0.0003 ppm	-0.0014 ppm	0.0051 ppm
Concentration RSD	2.6 %	8.3 %	4.9 %	0.7 %	135.7 %	51.7 %	25.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	1.4366 ppm	0.0070 ppm	0.0117 ppm	0.0043 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0048 ppm	1.4613 ppm	0.0072 ppm	0.0117 ppm	0.0043 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 2	-0.0003 ppm	1.4326 ppm	0.0071 ppm	0.0119 ppm	0.0043 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0007 ppm	1.4157 ppm	0.0065 ppm	0.0116 ppm	0.0042 ppm	0.0012 ppm	0.0000 ppm
Concentration RSD	128.9 %	1.6 %	5.4 %	1.5 %	0.8 %	317.9 %	208.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	104.5559 %	101.9452 %	105.2659 %	102.6548 %	100.9637 %	104.5449 %
Concentration per Run 1	0.0019 ppm	102.5816 %	101.1640 %	104.4907 %	101.4897 %	100.5090 %	104.0600 %
Concentration per Run 2	0.0022 ppm	104.7997 %	101.5323 %	105.7411 %	102.8433 %	100.6689 %	104.9546 %
Concentration per Run 3	0.0021 ppm	106.2865 %	103.1394 %	105.5660 %	103.6315 %	101.7132 %	104.6201 %
Concentration RSD	7.7 %	1.8 %	1.0 %	0.6 %	1.1 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: eL2433120-02d10 WG1936007
Analysis started at: 6/19/2024 11:27:03 PM
Rack 3
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0102 ppm	0.0045 ppm	0.0159 ppm	0.0126 ppm	0.0000 ppm	0.2661 ppm
Concentration per Run 1	0.0001 ppm	0.0070 ppm	0.0047 ppm	0.0153 ppm	0.0129 ppm	0.0000 ppm	0.2693 ppm
Concentration per Run 2	-0.0001 ppm	0.0115 ppm	0.0061 ppm	0.0162 ppm	0.0124 ppm	0.0000 ppm	0.2638 ppm
Concentration per Run 3	-0.0002 ppm	0.0121 ppm	0.0026 ppm	0.0161 ppm	0.0126 ppm	0.0000 ppm	0.2651 ppm
Concentration RSD	201.9 %	27.5 %	39.4 %	3.2 %	1.9 %	139.2 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0004 ppm	0.0016 ppm	0.0024 ppm	0.0196 ppm	0.9987 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0006 ppm	0.0016 ppm	0.0023 ppm	0.0206 ppm	1.0259 ppm	0.0032 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0016 ppm	0.0024 ppm	0.0197 ppm	1.0013 ppm	-0.0015 ppm
Concentration per Run 3	0.0003 ppm	0.0006 ppm	0.0015 ppm	0.0025 ppm	0.0185 ppm	0.9688 ppm	-0.0012 ppm
Concentration RSD	24.0 %	57.4 %	3.3 %	3.4 %	5.3 %	2.9 %	1,785.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0849 ppm	0.0026 ppm	-0.0001 ppm	42.1857 ppm	0.0028 ppm	0.0016 ppm	0.0007 ppm
Concentration per Run 1	0.0872 ppm	0.0027 ppm	0.0001 ppm	42.2064 ppm	0.0027 ppm	0.0027 ppm	0.0005 ppm
Concentration per Run 2	0.0833 ppm	0.0024 ppm	-0.0003 ppm	42.2906 ppm	0.0021 ppm	0.0012 ppm	-0.0007 ppm
Concentration per Run 3	0.0843 ppm	0.0028 ppm	0.0000 ppm	42.0603 ppm	0.0035 ppm	0.0009 ppm	0.0024 ppm
Concentration RSD	2.4 %	8.0 %	402.4 %	0.3 %	26.0 %	60.1 %	219.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0770 ppm	1.2623 ppm	0.0268 ppm	0.0015 ppm	0.0003 ppm	-0.0612 ppm	0.0000 ppm
Concentration per Run 1	0.0771 ppm	1.2770 ppm	0.0260 ppm	0.0014 ppm	0.0002 ppm	-0.0625 ppm	-0.0001 ppm
Concentration per Run 2	0.0763 ppm	1.2569 ppm	0.0263 ppm	0.0017 ppm	0.0004 ppm	-0.0593 ppm	-0.0001 ppm
Concentration per Run 3	0.0775 ppm	1.2530 ppm	0.0281 ppm	0.0016 ppm	0.0003 ppm	-0.0618 ppm	0.0000 ppm
Concentration RSD	0.8 %	1.0 %	4.1 %	8.5 %	28.0 %	2.7 %	182.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0635 ppm	107.1738 %	102.2288 %	99.8654 %	103.6436 %	99.7470 %	102.6415 %
Concentration per Run 1	0.0638 ppm	105.5198 %	101.6534 %	99.2950 %	102.7693 %	99.4448 %	102.3822 %
Concentration per Run 2	0.0635 ppm	107.4870 %	102.3012 %	100.0633 %	103.8988 %	99.8163 %	102.7615 %
Concentration per Run 3	0.0633 ppm	108.5147 %	102.7319 %	100.2378 %	104.2627 %	99.9797 %	102.7807 %
Concentration RSD	0.4 %	1.4 %	0.5 %	0.5 %	0.8 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: eL2433120-02d80 WG1936007
Analysis started at: 6/19/2024 11:31:04 PM
Rack 3
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0091 ppm	-0.0003 ppm	0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0403 ppm
Concentration per Run 1	-0.0002 ppm	0.0080 ppm	0.0003 ppm	0.0010 ppm	0.0014 ppm	0.0001 ppm	0.0402 ppm
Concentration per Run 2	-0.0004 ppm	0.0090 ppm	-0.0002 ppm	0.0021 ppm	0.0014 ppm	0.0000 ppm	0.0392 ppm
Concentration per Run 3	0.0000 ppm	0.0103 ppm	-0.0011 ppm	0.0012 ppm	0.0013 ppm	0.0000 ppm	0.0415 ppm
Concentration RSD	119.9 %	12.4 %	214.1 %	42.9 %	2.8 %	127.8 %	2.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0057 ppm	0.1122 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0061 ppm	0.1058 ppm	-0.0028 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0063 ppm	0.1223 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0004 ppm	0.0048 ppm	0.1083 ppm	0.0004 ppm
Concentration RSD	128.5 %	568.2 %	139.2 %	23.9 %	13.7 %	7.9 %	173.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0123 ppm	0.0004 ppm	-0.0007 ppm	5.6225 ppm	-0.0003 ppm	-0.0014 ppm	0.0018 ppm
Concentration per Run 1	0.0125 ppm	0.0005 ppm	-0.0007 ppm	5.6426 ppm	-0.0006 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 2	0.0118 ppm	0.0002 ppm	-0.0007 ppm	5.6042 ppm	0.0004 ppm	-0.0014 ppm	0.0030 ppm
Concentration per Run 3	0.0126 ppm	0.0003 ppm	-0.0007 ppm	5.6206 ppm	-0.0006 ppm	-0.0016 ppm	0.0015 ppm
Concentration RSD	3.4 %	43.6 %	3.9 %	0.3 %	190.8 %	13.2 %	59.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0104 ppm	0.1622 ppm	0.0052 ppm	0.0002 ppm	0.0001 ppm	-0.0037 ppm	-0.0002 ppm
Concentration per Run 1	0.0126 ppm	0.1636 ppm	0.0050 ppm	0.0001 ppm	-0.0002 ppm	-0.0023 ppm	0.0000 ppm
Concentration per Run 2	0.0103 ppm	0.1623 ppm	0.0048 ppm	0.0002 ppm	0.0001 ppm	-0.0045 ppm	-0.0001 ppm
Concentration per Run 3	0.0085 ppm	0.1607 ppm	0.0058 ppm	0.0003 ppm	0.0004 ppm	-0.0043 ppm	-0.0004 ppm
Concentration RSD	19.8 %	0.9 %	10.2 %	57.9 %	246.0 %	31.8 %	135.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0090 ppm	107.8316 %	104.0389 %	104.7404 %	104.7970 %	102.0577 %	105.0736 %
Concentration per Run 1	0.0093 ppm	106.3562 %	103.5208 %	104.1956 %	104.1586 %	101.8650 %	104.8416 %
Concentration per Run 2	0.0088 ppm	108.1878 %	104.7853 %	105.1365 %	104.8220 %	102.8099 %	105.4269 %
Concentration per Run 3	0.0090 ppm	108.9509 %	103.8107 %	104.8892 %	105.4103 %	101.4981 %	104.9523 %
Concentration RSD	2.5 %	1.2 %	0.6 %	0.5 %	0.6 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433120-02d100 WG1936007
Analysis started at: 6/19/2024 11:37:19 PM
Rack 3
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0065 ppm	-0.0004 ppm	0.0028 ppm	0.0011 ppm	0.0000 ppm	0.0367 ppm
Concentration per Run 1	-0.0002 ppm	0.0157 ppm	0.0005 ppm	0.0016 ppm	0.0010 ppm	0.0000 ppm	0.0363 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	-0.0008 ppm	0.0032 ppm	0.0011 ppm	0.0000 ppm	0.0365 ppm
Concentration per Run 3	-0.0001 ppm	0.0027 ppm	-0.0007 ppm	0.0035 ppm	0.0012 ppm	0.0000 ppm	0.0374 ppm
Concentration RSD	70.7 %	123.0 %	204.8 %	36.6 %	11.2 %	314.0 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0042 ppm	0.1117 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0047 ppm	0.0999 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0031 ppm	0.1217 ppm	0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0048 ppm	0.1135 ppm	0.0005 ppm
Concentration RSD	139.2 %	162.2 %	82.3 %	69.6 %	22.3 %	9.8 %	86.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0108 ppm	0.0004 ppm	-0.0005 ppm	4.5367 ppm	0.0001 ppm	-0.0012 ppm	0.0013 ppm
Concentration per Run 1	0.0115 ppm	0.0005 ppm	-0.0004 ppm	4.5308 ppm	0.0004 ppm	-0.0007 ppm	0.0022 ppm
Concentration per Run 2	0.0108 ppm	0.0004 ppm	-0.0001 ppm	4.5331 ppm	-0.0002 ppm	-0.0018 ppm	0.0017 ppm
Concentration per Run 3	0.0102 ppm	0.0002 ppm	-0.0008 ppm	4.5462 ppm	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	6.0 %	40.1 %	69.8 %	0.2 %	527.8 %	52.4 %	97.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0088 ppm	0.1276 ppm	0.0032 ppm	0.0002 ppm	-0.0001 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 1	0.0115 ppm	0.1286 ppm	0.0032 ppm	0.0003 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0074 ppm	0.1261 ppm	0.0026 ppm	0.0002 ppm	-0.0002 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 3	0.0073 ppm	0.1280 ppm	0.0038 ppm	0.0002 ppm	0.0001 ppm	-0.0018 ppm	0.0000 ppm
Concentration RSD	27.5 %	1.0 %	17.9 %	21.4 %	177.1 %	67.5 %	143.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0075 ppm	107.9034 %	104.1114 %	104.6907 %	104.7368 %	101.8366 %	104.2282 %
Concentration per Run 1	0.0075 ppm	106.5158 %	103.8924 %	104.6353 %	103.7528 %	101.6903 %	104.0230 %
Concentration per Run 2	0.0075 ppm	107.8979 %	103.7086 %	103.8160 %	104.7518 %	101.1300 %	103.9577 %
Concentration per Run 3	0.0075 ppm	109.2965 %	104.7331 %	105.6208 %	105.7058 %	102.6895 %	104.7039 %
Concentration RSD	0.4 %	1.3 %	0.5 %	0.9 %	0.9 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 11:41:27 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4680 ppm	0.4673 ppm	0.4480 ppm	0.4556 ppm	0.4822 ppm	0.4869 ppm	0.4697 ppm
Concentration per Run 1	0.4727 ppm	0.4726 ppm	0.4504 ppm	0.4585 ppm	0.4800 ppm	0.4841 ppm	0.4700 ppm
Concentration per Run 2	0.4668 ppm	0.4614 ppm	0.4461 ppm	0.4547 ppm	0.4840 ppm	0.4881 ppm	0.4691 ppm
Concentration per Run 3	0.4644 ppm	0.4679 ppm	0.4476 ppm	0.4536 ppm	0.4826 ppm	0.4884 ppm	0.4699 ppm
Recovery Percentage 1	93.599 %	93.461 %	89.604 %	91.117 %	96.437 %	97.371 %	93.933 %
Concentration RSD	0.9 %	1.2 %	0.5 %	0.6 %	0.4 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4645 ppm	0.4732 ppm	0.4629 ppm	0.4549 ppm	0.5016 ppm	5.3736 ppm	0.5052 ppm
Concentration per Run 1	0.4691 ppm	0.4791 ppm	0.4670 ppm	0.4601 ppm	0.4961 ppm	5.3657 ppm	0.5047 ppm
Concentration per Run 2	0.4627 ppm	0.4704 ppm	0.4612 ppm	0.4536 ppm	0.5060 ppm	5.4021 ppm	0.5089 ppm
Concentration per Run 3	0.4616 ppm	0.4702 ppm	0.4604 ppm	0.4511 ppm	0.5027 ppm	5.3529 ppm	0.5020 ppm
Recovery Percentage 1	92.893 %	94.649 %	92.573 %	90.983 %	100.323 %	107.471 %	101.033 %
Concentration RSD	0.9 %	1.1 %	0.8 %	1.0 %	1.0 %	0.5 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4600 ppm	0.4894 ppm	0.4514 ppm	10.1929 ppm	0.4723 ppm	0.4637 ppm	0.4534 ppm
Concentration per Run 1	0.4673 ppm	0.4891 ppm	0.4529 ppm	10.1642 ppm	0.4763 ppm	0.4670 ppm	0.4586 ppm
Concentration per Run 2	0.4588 ppm	0.4892 ppm	0.4476 ppm	10.2356 ppm	0.4715 ppm	0.4625 ppm	0.4461 ppm
Concentration per Run 3	0.4540 ppm	0.4899 ppm	0.4536 ppm	10.1790 ppm	0.4690 ppm	0.4616 ppm	0.4556 ppm
Recovery Percentage 1	92.007 %	97.881 %	90.276 %	101.929 %	94.457 %	92.740 %	90.685 %
Concentration RSD	1.5 %	0.1 %	0.7 %	0.4 %	0.8 %	0.6 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4574 ppm	4.7922 ppm	0.4792 ppm	0.4729 ppm	0.4684 ppm	0.4524 ppm	0.4622 ppm
Concentration per Run 1	0.4607 ppm	4.8426 ppm	0.4835 ppm	0.4698 ppm	0.4723 ppm	0.4546 ppm	0.4679 ppm
Concentration per Run 2	0.4566 ppm	4.7779 ppm	0.4773 ppm	0.4749 ppm	0.4682 ppm	0.4539 ppm	0.4607 ppm
Concentration per Run 3	0.4550 ppm	4.7561 ppm	0.4769 ppm	0.4741 ppm	0.4647 ppm	0.4488 ppm	0.4581 ppm
Recovery Percentage 1	91.482 %	91.280 %	95.841 %	94.583 %	93.685 %	90.482 %	92.447 %
Concentration RSD	0.6 %	0.9 %	0.8 %	0.6 %	0.8 %	0.7 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4708 ppm	107.9446 %	102.9859 %	105.9168 %	101.0930 %	99.1277 %	102.5005 %
Concentration per Run 1	0.4756 ppm	107.0200 %	102.8701 %	105.3703 %	100.0565 %	98.8260 %	101.9130 %
Concentration per Run 2	0.4695 ppm	108.2382 %	102.6247 %	106.1962 %	101.2799 %	98.9232 %	102.4793 %
Concentration per Run 3	0.4672 ppm	108.5755 %	103.4630 %	106.1839 %	101.9425 %	99.6341 %	103.1091 %
Recovery Percentage 1	94.158 %						
Concentration RSD	0.9 %	0.8 %	0.4 %	0.4 %	0.9 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 11:45:27 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	-0.0011 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	-0.0011 ppm	0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	-0.0024 ppm	-0.0012 ppm	-0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	0.0003 ppm	0.0007 ppm	-0.0011 ppm	0.0007 ppm	-0.0004 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	2.039 %	-0.433 %	-36.802 %	0.750 %	-2.497 %	1.084 %	2.011 %
Concentration RSD	91.7 %	391.1 %	5.5 %	362.8 %	73.1 %	229.3 %	46.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0032 ppm	-0.0088 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0016 ppm	-0.0203 ppm	0.0017 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0036 ppm	0.0032 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0044 ppm	-0.0092 ppm	-0.0023 ppm
Recovery Percentage 1	1.415 %	-0.829 %	-2.381 %	2.332 %	6.333 %	-0.351 %	-0.436 %
Concentration RSD	55.2 %	44.2 %	26.0 %	80.5 %	45.5 %	133.7 %	4,602.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0009 ppm	0.0103 ppm	-0.0001 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 1	0.0013 ppm	-0.0001 ppm	0.0009 ppm	0.0134 ppm	-0.0002 ppm	-0.0018 ppm	0.0018 ppm
Concentration per Run 2	0.0014 ppm	0.0000 ppm	0.0009 ppm	0.0126 ppm	-0.0003 ppm	-0.0017 ppm	-0.0014 ppm
Concentration per Run 3	-0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0048 ppm	0.0001 ppm	-0.0002 ppm	-0.0006 ppm
Recovery Percentage 1	0.725 %	0.045 %	1.710 %	0.514 %	-0.431 %	-12.534 %	-0.160 %
Concentration RSD	139.0 %	3,269.3 %	10.7 %	45.9 %	186.1 %	69.6 %	2,105.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0020 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0044 ppm	0.0021 ppm	-0.0007 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0012 ppm	-0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	0.0028 ppm	-0.0014 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm
Recovery Percentage 1	-18.793 %	0.408 %	-2.020 %	0.646 %	-0.200 %	1.734 %	-0.380 %
Concentration RSD	119.3 %	39.0 %	36.9 %	136.1 %	1,778.5 %	105.5 %	441.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	103.7539 %	101.2252 %	104.5607 %	102.4003 %	100.3242 %	104.1803 %
Concentration per Run 1	0.0006 ppm	101.6395 %	101.3607 %	104.5031 %	100.9502 %	100.4077 %	104.2747 %
Concentration per Run 2	0.0007 ppm	104.3202 %	101.3482 %	104.3906 %	102.9979 %	100.1854 %	104.1066 %
Concentration per Run 3	0.0005 ppm	105.3021 %	100.9668 %	104.7882 %	103.2527 %	100.3794 %	104.1597 %
Recovery Percentage 1	11.270 %						
Concentration RSD	15.7 %	1.8 %	0.2 %	0.2 %	1.2 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 11:49:27 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4676 ppm	0.4705 ppm	0.4455 ppm	0.4559 ppm	0.4784 ppm	0.4855 ppm	0.4688 ppm
Concentration per Run 1	0.4718 ppm	0.4846 ppm	0.4439 ppm	0.4590 ppm	0.4800 ppm	0.4881 ppm	0.4740 ppm
Concentration per Run 2	0.4663 ppm	0.4633 ppm	0.4426 ppm	0.4538 ppm	0.4785 ppm	0.4820 ppm	0.4710 ppm
Concentration per Run 3	0.4649 ppm	0.4637 ppm	0.4501 ppm	0.4550 ppm	0.4766 ppm	0.4863 ppm	0.4614 ppm
Recovery Percentage 1	93.528 %	94.106 %	89.109 %	91.187 %	95.671 %	97.092 %	93.756 %
Concentration RSD	0.8 %	2.6 %	0.9 %	0.6 %	0.4 %	0.6 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4659 ppm	0.4724 ppm	0.4626 ppm	0.4540 ppm	0.5022 ppm	5.3405 ppm	0.5023 ppm
Concentration per Run 1	0.4701 ppm	0.4770 ppm	0.4678 ppm	0.4559 ppm	0.5043 ppm	5.4316 ppm	0.5082 ppm
Concentration per Run 2	0.4636 ppm	0.4708 ppm	0.4601 ppm	0.4535 ppm	0.5017 ppm	5.3157 ppm	0.5027 ppm
Concentration per Run 3	0.4641 ppm	0.4694 ppm	0.4598 ppm	0.4525 ppm	0.5005 ppm	5.2741 ppm	0.4959 ppm
Recovery Percentage 1	93.186 %	94.480 %	92.512 %	90.798 %	100.434 %	106.810 %	100.456 %
Concentration RSD	0.8 %	0.9 %	1.0 %	0.4 %	0.4 %	1.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4611 ppm	0.4878 ppm	0.4529 ppm	10.1578 ppm	0.4756 ppm	0.4613 ppm	0.4533 ppm
Concentration per Run 1	0.4657 ppm	0.4887 ppm	0.4524 ppm	10.1834 ppm	0.4801 ppm	0.4611 ppm	0.4571 ppm
Concentration per Run 2	0.4598 ppm	0.4875 ppm	0.4517 ppm	10.1165 ppm	0.4717 ppm	0.4588 ppm	0.4487 ppm
Concentration per Run 3	0.4577 ppm	0.4873 ppm	0.4544 ppm	10.1736 ppm	0.4749 ppm	0.4641 ppm	0.4541 ppm
Recovery Percentage 1	92.211 %	97.564 %	90.571 %	101.578 %	95.118 %	92.266 %	90.660 %
Concentration RSD	0.9 %	0.2 %	0.3 %	0.4 %	0.9 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4564 ppm	4.8086 ppm	0.4807 ppm	0.4724 ppm	0.4687 ppm	0.4500 ppm	0.4621 ppm
Concentration per Run 1	0.4567 ppm	4.8517 ppm	0.4850 ppm	0.4738 ppm	0.4731 ppm	0.4481 ppm	0.4666 ppm
Concentration per Run 2	0.4547 ppm	4.7915 ppm	0.4774 ppm	0.4700 ppm	0.4660 ppm	0.4482 ppm	0.4596 ppm
Concentration per Run 3	0.4577 ppm	4.7825 ppm	0.4797 ppm	0.4734 ppm	0.4670 ppm	0.4536 ppm	0.4600 ppm
Recovery Percentage 1	91.274 %	91.592 %	96.135 %	94.477 %	93.740 %	89.991 %	92.417 %
Concentration RSD	0.3 %	0.8 %	0.8 %	0.4 %	0.8 %	0.7 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4714 ppm	107.8657 %	102.7285 %	106.2169 %	101.0580 %	99.2535 %	102.5880 %
Concentration per Run 1	0.4766 ppm	107.1683 %	102.6053 %	106.7743 %	99.9642 %	99.0018 %	103.2227 %
Concentration per Run 2	0.4677 ppm	107.9498 %	102.9016 %	106.1074 %	101.2864 %	99.3003 %	102.0994 %
Concentration per Run 3	0.4698 ppm	108.4791 %	102.6787 %	105.7691 %	101.9234 %	99.4583 %	102.4418 %
Recovery Percentage 1	94.277 %						
Concentration RSD	1.0 %	0.6 %	0.2 %	0.5 %	1.0 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 11:53:26 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0031 ppm	-0.0008 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	0.0004 ppm	0.0027 ppm	-0.0007 ppm	0.0011 ppm	-0.0004 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0013 ppm	-0.0011 ppm	-0.0003 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 3	0.0009 ppm	0.0063 ppm	-0.0003 ppm	-0.0010 ppm	-0.0003 ppm	0.0001 ppm	0.0057 ppm
Recovery Percentage 1	6.674 %	3.062 %	-25.751 %	-1.063 %	-3.041 %	1.218 %	3.437 %
Concentration RSD	89.5 %	101.2 %	63.0 %	389.8 %	18.0 %	98.2 %	61.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0032 ppm	0.0166 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0025 ppm	-0.0015 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0005 ppm	0.0003 ppm	0.0031 ppm	0.0054 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	-0.0001 ppm	0.0040 ppm	0.0459 ppm	-0.0031 ppm
Recovery Percentage 1	0.864 %	-0.280 %	-2.270 %	1.789 %	6.381 %	0.663 %	-2.384 %
Concentration RSD	119.3 %	689.0 %	106.6 %	136.8 %	23.4 %	154.2 %	1,041.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0000 ppm	0.0011 ppm	0.0061 ppm	-0.0002 ppm	-0.0018 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0014 ppm	0.0023 ppm	-0.0004 ppm	-0.0015 ppm	-0.0009 ppm
Concentration per Run 2	0.0010 ppm	-0.0003 ppm	0.0014 ppm	0.0112 ppm	0.0000 ppm	-0.0021 ppm	0.0011 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0048 ppm	-0.0001 ppm	-0.0019 ppm	-0.0008 ppm
Recovery Percentage 1	0.420 %	-0.144 %	2.291 %	0.306 %	-0.823 %	-18.166 %	-0.409 %
Concentration RSD	133.4 %	1,535.6 %	41.8 %	75.2 %	101.1 %	16.3 %	555.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0003 ppm	-0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0013 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0007 ppm	0.0011 ppm	-0.0017 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0032 ppm	-0.0009 ppm	-0.0010 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	-12.679 %	0.051 %	-1.568 %	0.614 %	-0.839 %	0.617 %	1.574 %
Concentration RSD	151.1 %	414.1 %	130.6 %	158.6 %	164.3 %	201.1 %	57.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	102.7822 %	100.7337 %	103.3737 %	102.0890 %	100.5674 %	103.4939 %
Concentration per Run 1	0.0004 ppm	101.1327 %	100.6727 %	103.1622 %	100.8938 %	100.6397 %	103.9100 %
Concentration per Run 2	0.0005 ppm	103.4605 %	100.5187 %	103.3749 %	102.6171 %	100.2138 %	103.2992 %
Concentration per Run 3	0.0006 ppm	103.7534 %	101.0097 %	103.5838 %	102.7560 %	100.8488 %	103.2726 %
Recovery Percentage 1	10.129 %						
Concentration RSD	15.3 %	1.4 %	0.2 %	0.2 %	1.0 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-01d2 WG1936261
Analysis started at: 6/19/2024 11:57:26 PM
Rack 3
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	138.3485 ppm	0.1169 ppm	0.0129 ppm	0.7308 ppm	0.0050 ppm	63.1588 ppm
Concentration per Run 1	0.0000 ppm	138.0908 ppm	0.1167 ppm	0.0138 ppm	0.7318 ppm	0.0050 ppm	63.2041 ppm
Concentration per Run 2	0.0004 ppm	138.5536 ppm	0.1160 ppm	0.0120 ppm	0.7296 ppm	0.0050 ppm	63.3517 ppm
Concentration per Run 3	0.0002 ppm	138.4010 ppm	0.1180 ppm	0.0130 ppm	0.7311 ppm	0.0049 ppm	62.9205 ppm
Concentration RSD	109.2 %	0.2 %	0.9 %	7.0 %	0.2 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0852 ppm	0.2328 ppm	0.1883 ppm	201.6505 ppm	10.3276 ppm	0.1295 ppm
Concentration per Run 1	0.0014 ppm	0.0860 ppm	0.2344 ppm	0.1902 ppm	201.5200 ppm	10.3147 ppm	0.1308 ppm
Concentration per Run 2	0.0015 ppm	0.0844 ppm	0.2325 ppm	0.1879 ppm	201.7134 ppm	10.3527 ppm	0.1285 ppm
Concentration per Run 3	0.0016 ppm	0.0852 ppm	0.2314 ppm	0.1868 ppm	201.7181 ppm	10.3154 ppm	0.1292 ppm
Concentration RSD	6.4 %	0.9 %	0.6 %	0.9 %	0.1 %	0.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	62.4685 ppm	3.8469 ppm	0.0033 ppm	0.4556 ppm	0.1504 ppm	0.4126 ppm	0.0026 ppm
Concentration per Run 1	63.0067 ppm	3.8456 ppm	0.0034 ppm	0.4585 ppm	0.1522 ppm	0.4098 ppm	0.0031 ppm
Concentration per Run 2	62.2374 ppm	3.8477 ppm	0.0029 ppm	0.4563 ppm	0.1494 ppm	0.4125 ppm	0.0025 ppm
Concentration per Run 3	62.1614 ppm	3.8474 ppm	0.0037 ppm	0.4520 ppm	0.1495 ppm	0.4156 ppm	0.0021 ppm
Concentration RSD	0.7 %	0.0 %	11.2 %	0.7 %	1.1 %	0.7 %	20.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	3.5053 ppm	0.0085 ppm	0.0965 ppm	6.9096 ppm	0.0081 ppm	0.3101 ppm
Concentration per Run 1	0.0005 ppm	3.5462 ppm	0.0085 ppm	0.0968 ppm	6.9594 ppm	0.0085 ppm	0.3134 ppm
Concentration per Run 2	-0.0006 ppm	3.5019 ppm	0.0092 ppm	0.0965 ppm	6.8924 ppm	0.0091 ppm	0.3085 ppm
Concentration per Run 3	-0.0014 ppm	3.4677 ppm	0.0078 ppm	0.0963 ppm	6.8770 ppm	0.0067 ppm	0.3085 ppm
Concentration RSD	197.5 %	1.1 %	8.1 %	0.2 %	0.6 %	15.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5240 ppm	113.0690 %	111.1562 %	96.4160 %	132.2221 %	134.7205 %	132.4379 %
Concentration per Run 1	0.5287 ppm	112.2567 %	111.1843 %	97.2477 %	131.3395 %	134.8109 %	133.1569 %
Concentration per Run 2	0.5210 ppm	113.3988 %	111.1182 %	96.2727 %	132.2407 %	134.7367 %	132.1592 %
Concentration per Run 3	0.5221 ppm	113.5515 %	111.1661 %	95.7274 %	133.0860 %	134.6139 %	131.9978 %
Concentration RSD	0.8 %	0.6 %	0.0 %	0.8 %	0.7 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-02d2 WG1936261
Analysis started at: 6/20/2024 12:01:28 AM
Rack 3
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	132.3492 ppm	0.0385 ppm	0.0052 ppm	0.5137 ppm	0.0044 ppm	11.8599 ppm
Concentration per Run 1	-0.0004 ppm	131.6113 ppm	0.0385 ppm	0.0040 ppm	0.5111 ppm	0.0046 ppm	11.8850 ppm
Concentration per Run 2	-0.0005 ppm	131.6672 ppm	0.0397 ppm	0.0060 ppm	0.5151 ppm	0.0044 ppm	11.8594 ppm
Concentration per Run 3	-0.0004 ppm	133.7690 ppm	0.0372 ppm	0.0057 ppm	0.5151 ppm	0.0042 ppm	11.8354 ppm
Concentration RSD	10.1 %	0.9 %	3.2 %	20.8 %	0.5 %	4.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0879 ppm	0.1976 ppm	0.1552 ppm	199.4515 ppm	9.2749 ppm	0.1287 ppm
Concentration per Run 1	0.0007 ppm	0.0892 ppm	0.1996 ppm	0.1578 ppm	200.1360 ppm	9.2389 ppm	0.1270 ppm
Concentration per Run 2	0.0003 ppm	0.0871 ppm	0.1963 ppm	0.1528 ppm	198.8385 ppm	9.1883 ppm	0.1272 ppm
Concentration per Run 3	0.0006 ppm	0.0874 ppm	0.1969 ppm	0.1548 ppm	199.3801 ppm	9.3975 ppm	0.1318 ppm
Concentration RSD	41.9 %	1.3 %	0.9 %	1.6 %	0.3 %	1.2 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.3234 ppm	2.7606 ppm	0.0035 ppm	0.3930 ppm	0.1392 ppm	0.1009 ppm	0.0035 ppm
Concentration per Run 1	37.6601 ppm	2.7684 ppm	0.0032 ppm	0.3994 ppm	0.1405 ppm	0.1013 ppm	0.0050 ppm
Concentration per Run 2	37.1273 ppm	2.7466 ppm	0.0035 ppm	0.3876 ppm	0.1393 ppm	0.1011 ppm	0.0041 ppm
Concentration per Run 3	37.1829 ppm	2.7669 ppm	0.0038 ppm	0.3919 ppm	0.1377 ppm	0.1002 ppm	0.0013 ppm
Concentration RSD	0.8 %	0.4 %	7.9 %	1.5 %	1.0 %	0.6 %	56.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	4.8338 ppm	0.0048 ppm	0.0645 ppm	7.6328 ppm	0.0079 ppm	0.3004 ppm
Concentration per Run 1	0.0003 ppm	4.9127 ppm	0.0057 ppm	0.0652 ppm	7.7032 ppm	0.0089 ppm	0.3010 ppm
Concentration per Run 2	0.0006 ppm	4.7571 ppm	0.0042 ppm	0.0646 ppm	7.5908 ppm	0.0073 ppm	0.3012 ppm
Concentration per Run 3	0.0016 ppm	4.8316 ppm	0.0046 ppm	0.0639 ppm	7.6043 ppm	0.0075 ppm	0.2991 ppm
Concentration RSD	81.1 %	1.6 %	16.0 %	1.0 %	0.8 %	11.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3643 ppm	114.7866 %	111.3069 %	99.8584 %	118.7577 %	119.5152 %	120.4557 %
Concentration per Run 1	0.3678 ppm	114.0257 %	109.8207 %	100.4432 %	117.8125 %	118.2157 %	120.4091 %
Concentration per Run 2	0.3639 ppm	115.2417 %	112.2635 %	100.1796 %	119.1045 %	120.6617 %	120.4674 %
Concentration per Run 3	0.3614 ppm	115.0923 %	111.8365 %	98.9525 %	119.3561 %	119.6683 %	120.4906 %
Concentration RSD	0.9 %	0.6 %	1.2 %	0.8 %	0.7 %	1.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-06d2 WG1936261
Analysis started at: 6/20/2024 12:05:29 AM
Rack 3
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	142.3908 ppm	0.0600 ppm	0.0055 ppm	0.6203 ppm	0.0053 ppm	12.8646 ppm
Concentration per Run 1	-0.0006 ppm	142.7195 ppm	0.0617 ppm	0.0050 ppm	0.6208 ppm	0.0053 ppm	12.8946 ppm
Concentration per Run 2	-0.0009 ppm	141.9966 ppm	0.0589 ppm	0.0069 ppm	0.6178 ppm	0.0052 ppm	12.7659 ppm
Concentration per Run 3	-0.0005 ppm	142.4563 ppm	0.0594 ppm	0.0048 ppm	0.6222 ppm	0.0053 ppm	12.9333 ppm
Concentration RSD	27.3 %	0.3 %	2.4 %	20.6 %	0.4 %	1.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0849 ppm	0.2369 ppm	0.1783 ppm	214.0360 ppm	19.4772 ppm	0.1648 ppm
Concentration per Run 1	0.0013 ppm	0.0855 ppm	0.2369 ppm	0.1787 ppm	213.8612 ppm	19.5685 ppm	0.1690 ppm
Concentration per Run 2	0.0012 ppm	0.0842 ppm	0.2373 ppm	0.1779 ppm	213.1937 ppm	19.4305 ppm	0.1612 ppm
Concentration per Run 3	0.0014 ppm	0.0849 ppm	0.2365 ppm	0.1783 ppm	215.0532 ppm	19.4326 ppm	0.1642 ppm
Concentration RSD	7.5 %	0.8 %	0.2 %	0.2 %	0.4 %	0.4 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.2932 ppm	3.0238 ppm	0.0022 ppm	0.6015 ppm	0.1807 ppm	0.1255 ppm	0.0023 ppm
Concentration per Run 1	60.5241 ppm	3.0264 ppm	0.0023 ppm	0.5957 ppm	0.1797 ppm	0.1247 ppm	0.0032 ppm
Concentration per Run 2	60.2603 ppm	3.0147 ppm	0.0023 ppm	0.6041 ppm	0.1818 ppm	0.1240 ppm	0.0013 ppm
Concentration per Run 3	60.0951 ppm	3.0303 ppm	0.0021 ppm	0.6047 ppm	0.1806 ppm	0.1278 ppm	0.0022 ppm
Concentration RSD	0.4 %	0.3 %	7.0 %	0.8 %	0.6 %	1.6 %	42.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	3.4192 ppm	0.0058 ppm	0.0608 ppm	7.7718 ppm	0.0087 ppm	0.3155 ppm
Concentration per Run 1	-0.0006 ppm	3.4070 ppm	0.0061 ppm	0.0604 ppm	7.8099 ppm	0.0089 ppm	0.3159 ppm
Concentration per Run 2	-0.0028 ppm	3.4598 ppm	0.0060 ppm	0.0606 ppm	7.7641 ppm	0.0097 ppm	0.3157 ppm
Concentration per Run 3	-0.0018 ppm	3.3907 ppm	0.0053 ppm	0.0614 ppm	7.7412 ppm	0.0075 ppm	0.3147 ppm
Concentration RSD	64.0 %	1.1 %	7.2 %	0.8 %	0.5 %	12.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5047 ppm	113.2701 %	109.1808 %	98.1464 %	127.3340 %	127.4662 %	129.4569 %
Concentration per Run 1	0.5053 ppm	113.1495 %	108.4170 %	98.3101 %	127.0278 %	127.1032 %	129.3549 %
Concentration per Run 2	0.5059 ppm	113.4796 %	110.4413 %	97.7855 %	127.5629 %	128.4398 %	129.3927 %
Concentration per Run 3	0.5028 ppm	113.1812 %	108.6841 %	98.3436 %	127.4112 %	126.8555 %	129.6232 %
Concentration RSD	0.3 %	0.2 %	1.0 %	0.3 %	0.2 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-09d2 WG1936261
Analysis started at: 6/20/2024 12:09:31 AM
Rack 3
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	122.3474 ppm	0.1326 ppm	0.0136 ppm	0.8859 ppm	0.0042 ppm	54.4551 ppm
Concentration per Run 1	0.0001 ppm	122.6798 ppm	0.1354 ppm	0.0130 ppm	0.8828 ppm	0.0042 ppm	54.5639 ppm
Concentration per Run 2	0.0006 ppm	121.8435 ppm	0.1327 ppm	0.0139 ppm	0.8866 ppm	0.0043 ppm	54.3872 ppm
Concentration per Run 3	0.0003 ppm	122.5189 ppm	0.1298 ppm	0.0139 ppm	0.8882 ppm	0.0042 ppm	54.4143 ppm
Concentration RSD	79.3 %	0.4 %	2.1 %	3.7 %	0.3 %	2.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0047 ppm	0.0751 ppm	0.3009 ppm	0.2278 ppm	185.0621 ppm	18.6119 ppm	0.1411 ppm
Concentration per Run 1	0.0047 ppm	0.0759 ppm	0.3043 ppm	0.2310 ppm	184.3288 ppm	18.6467 ppm	0.1446 ppm
Concentration per Run 2	0.0047 ppm	0.0748 ppm	0.2986 ppm	0.2262 ppm	185.7742 ppm	18.6019 ppm	0.1384 ppm
Concentration per Run 3	0.0046 ppm	0.0747 ppm	0.2996 ppm	0.2261 ppm	185.0834 ppm	18.5872 ppm	0.1404 ppm
Concentration RSD	0.7 %	0.9 %	1.0 %	1.2 %	0.4 %	0.2 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.7077 ppm	3.7200 ppm	0.0026 ppm	0.4372 ppm	0.1623 ppm	0.4807 ppm	0.0048 ppm
Concentration per Run 1	53.3343 ppm	3.7284 ppm	0.0027 ppm	0.4317 ppm	0.1647 ppm	0.4814 ppm	0.0061 ppm
Concentration per Run 2	52.3126 ppm	3.7136 ppm	0.0027 ppm	0.4385 ppm	0.1605 ppm	0.4818 ppm	-0.0007 ppm
Concentration per Run 3	52.4762 ppm	3.7181 ppm	0.0023 ppm	0.4414 ppm	0.1616 ppm	0.4789 ppm	0.0089 ppm
Concentration RSD	1.0 %	0.2 %	9.4 %	1.1 %	1.3 %	0.3 %	103.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	4.4194 ppm	0.0111 ppm	0.1872 ppm	6.6617 ppm	0.0073 ppm	0.2889 ppm
Concentration per Run 1	-0.0009 ppm	4.5580 ppm	0.0119 ppm	0.1867 ppm	6.7390 ppm	0.0086 ppm	0.2923 ppm
Concentration per Run 2	0.0000 ppm	4.3702 ppm	0.0107 ppm	0.1875 ppm	6.6274 ppm	0.0060 ppm	0.2869 ppm
Concentration per Run 3	0.0005 ppm	4.3299 ppm	0.0105 ppm	0.1875 ppm	6.6188 ppm	0.0074 ppm	0.2875 ppm
Concentration RSD	601.4 %	2.8 %	6.6 %	0.3 %	1.0 %	18.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7182 ppm	112.3559 %	109.7280 %	96.8784 %	128.5099 %	130.1278 %	129.2951 %
Concentration per Run 1	0.7320 ppm	110.9648 %	109.7944 %	96.6536 %	127.1801 %	129.9291 %	128.5526 %
Concentration per Run 2	0.7069 ppm	114.0514 %	109.8481 %	96.6962 %	129.9101 %	130.3468 %	129.1323 %
Concentration per Run 3	0.7157 ppm	112.0515 %	109.5415 %	97.2854 %	128.4394 %	130.1075 %	130.2003 %
Concentration RSD	1.8 %	1.4 %	0.1 %	0.4 %	1.1 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-10d2 WG1936261
Analysis started at: 6/20/2024 12:13:32 AM
Rack 3
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	154.1634 ppm	0.1507 ppm	0.0066 ppm	0.7374 ppm	0.0046 ppm	11.0115 ppm
Concentration per Run 1	0.0000 ppm	154.2152 ppm	0.1515 ppm	0.0062 ppm	0.7427 ppm	0.0046 ppm	11.0775 ppm
Concentration per Run 2	-0.0001 ppm	154.2055 ppm	0.1538 ppm	0.0070 ppm	0.7361 ppm	0.0046 ppm	11.0006 ppm
Concentration per Run 3	-0.0005 ppm	154.0696 ppm	0.1468 ppm	0.0064 ppm	0.7335 ppm	0.0045 ppm	10.9564 ppm
Concentration RSD	136.2 %	0.1 %	2.4 %	6.6 %	0.6 %	1.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.1023 ppm	0.2531 ppm	0.1319 ppm	254.3310 ppm	12.5224 ppm	0.1402 ppm
Concentration per Run 1	0.0018 ppm	0.1027 ppm	0.2549 ppm	0.1333 ppm	254.9633 ppm	12.5284 ppm	0.1406 ppm
Concentration per Run 2	0.0018 ppm	0.1013 ppm	0.2523 ppm	0.1315 ppm	254.5698 ppm	12.5162 ppm	0.1408 ppm
Concentration per Run 3	0.0017 ppm	0.1029 ppm	0.2520 ppm	0.1307 ppm	253.4597 ppm	12.5225 ppm	0.1393 ppm
Concentration RSD	3.1 %	0.9 %	0.6 %	1.0 %	0.3 %	0.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.0554 ppm	4.1901 ppm	0.0037 ppm	0.3255 ppm	0.1511 ppm	0.4548 ppm	0.0057 ppm
Concentration per Run 1	42.3922 ppm	4.1909 ppm	0.0033 ppm	0.3260 ppm	0.1511 ppm	0.4542 ppm	0.0051 ppm
Concentration per Run 2	41.9281 ppm	4.1938 ppm	0.0040 ppm	0.3196 ppm	0.1510 ppm	0.4574 ppm	0.0064 ppm
Concentration per Run 3	41.8460 ppm	4.1857 ppm	0.0036 ppm	0.3311 ppm	0.1511 ppm	0.4528 ppm	0.0055 ppm
Concentration RSD	0.7 %	0.1 %	9.6 %	1.8 %	0.1 %	0.5 %	11.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	4.5355 ppm	0.0096 ppm	0.0602 ppm	8.5349 ppm	0.0089 ppm	0.3566 ppm
Concentration per Run 1	0.0023 ppm	4.5257 ppm	0.0094 ppm	0.0606 ppm	8.6086 ppm	0.0102 ppm	0.3578 ppm
Concentration per Run 2	0.0000 ppm	4.5552 ppm	0.0097 ppm	0.0603 ppm	8.4975 ppm	0.0085 ppm	0.3551 ppm
Concentration per Run 3	-0.0012 ppm	4.5257 ppm	0.0096 ppm	0.0598 ppm	8.4987 ppm	0.0081 ppm	0.3570 ppm
Concentration RSD	453.2 %	0.4 %	2.0 %	0.7 %	0.7 %	12.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5149 ppm	113.6873 %	111.7449 %	96.1498 %	122.3376 %	124.2237 %	124.1184 %
Concentration per Run 1	0.5180 ppm	113.1412 %	111.4397 %	96.4536 %	121.5802 %	124.1941 %	124.7094 %
Concentration per Run 2	0.5130 ppm	114.0644 %	111.8362 %	96.1538 %	122.5305 %	124.0729 %	124.3408 %
Concentration per Run 3	0.5138 ppm	113.8562 %	111.9589 %	95.8419 %	122.9023 %	124.4043 %	123.3051 %
Concentration RSD	0.5 %	0.4 %	0.2 %	0.3 %	0.6 %	0.1 %	0.6 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-13d2 WG1936261
Analysis started at: 6/20/2024 12:17:33 AM
Rack 3
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	165.3451 ppm	0.1535 ppm	0.0086 ppm	0.9682 ppm	0.0059 ppm	14.6371 ppm
Concentration per Run 1	0.0005 ppm	165.1140 ppm	0.1532 ppm	0.0082 ppm	0.9655 ppm	0.0060 ppm	14.6321 ppm
Concentration per Run 2	0.0004 ppm	165.4153 ppm	0.1531 ppm	0.0087 ppm	0.9702 ppm	0.0057 ppm	14.6223 ppm
Concentration per Run 3	0.0004 ppm	165.5059 ppm	0.1541 ppm	0.0089 ppm	0.9689 ppm	0.0059 ppm	14.6569 ppm
Concentration RSD	5.6 %	0.1 %	0.4 %	4.6 %	0.3 %	2.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0026 ppm	0.1001 ppm	0.2825 ppm	0.2631 ppm	241.9432 ppm	25.1597 ppm	0.1882 ppm
Concentration per Run 1	0.0026 ppm	0.1001 ppm	0.2837 ppm	0.2643 ppm	242.0337 ppm	25.1524 ppm	0.1887 ppm
Concentration per Run 2	0.0027 ppm	0.1005 ppm	0.2826 ppm	0.2625 ppm	241.6485 ppm	25.2480 ppm	0.1902 ppm
Concentration per Run 3	0.0025 ppm	0.0997 ppm	0.2811 ppm	0.2626 ppm	242.1474 ppm	25.0787 ppm	0.1856 ppm
Concentration RSD	3.9 %	0.4 %	0.5 %	0.4 %	0.1 %	0.3 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.7538 ppm	3.6749 ppm	0.0032 ppm	0.6988 ppm	0.2068 ppm	0.3953 ppm	0.0059 ppm
Concentration per Run 1	53.0345 ppm	3.6679 ppm	0.0029 ppm	0.6968 ppm	0.2076 ppm	0.3947 ppm	0.0083 ppm
Concentration per Run 2	52.6477 ppm	3.6837 ppm	0.0035 ppm	0.7001 ppm	0.2069 ppm	0.3952 ppm	0.0046 ppm
Concentration per Run 3	52.5793 ppm	3.6731 ppm	0.0033 ppm	0.6996 ppm	0.2060 ppm	0.3961 ppm	0.0048 ppm
Concentration RSD	0.5 %	0.2 %	10.3 %	0.3 %	0.4 %	0.2 %	35.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	4.9447 ppm	0.0133 ppm	0.0716 ppm	8.9404 ppm	0.0078 ppm	0.3815 ppm
Concentration per Run 1	-0.0003 ppm	5.0180 ppm	0.0129 ppm	0.0719 ppm	8.9923 ppm	0.0087 ppm	0.3828 ppm
Concentration per Run 2	0.0010 ppm	4.9499 ppm	0.0126 ppm	0.0713 ppm	8.9250 ppm	0.0054 ppm	0.3814 ppm
Concentration per Run 3	0.0005 ppm	4.8662 ppm	0.0143 ppm	0.0717 ppm	8.9038 ppm	0.0093 ppm	0.3804 ppm
Concentration RSD	161.3 %	1.5 %	6.7 %	0.4 %	0.5 %	27.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7237 ppm	114.3902 %	111.0835 %	95.4182 %	133.8234 %	134.4477 %	134.3808 %
Concentration per Run 1	0.7271 ppm	114.7148 %	110.8777 %	95.2728 %	133.8374 %	134.2706 %	133.9552 %
Concentration per Run 2	0.7239 ppm	114.6252 %	111.2569 %	95.6114 %	133.8121 %	134.2741 %	134.8071 %
Concentration per Run 3	0.7203 ppm	113.8305 %	111.1158 %	95.3704 %	133.8207 %	134.7985 %	134.3802 %
Concentration RSD	0.5 %	0.4 %	0.2 %	0.2 %	0.0 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-14d2 WG1936261
Analysis started at: 6/20/2024 12:21:34 AM
Rack 3
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	153.1717 ppm	0.0313 ppm	0.0039 ppm	1.1658 ppm	0.0070 ppm	9.6795 ppm
Concentration per Run 1	-0.0004 ppm	152.1034 ppm	0.0308 ppm	0.0051 ppm	1.1601 ppm	0.0073 ppm	9.6878 ppm
Concentration per Run 2	-0.0005 ppm	155.1630 ppm	0.0326 ppm	0.0035 ppm	1.1731 ppm	0.0065 ppm	9.6845 ppm
Concentration per Run 3	-0.0003 ppm	152.2488 ppm	0.0303 ppm	0.0031 ppm	1.1641 ppm	0.0072 ppm	9.6661 ppm
Concentration RSD	32.4 %	1.1 %	3.9 %	27.3 %	0.6 %	6.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1198 ppm	0.2511 ppm	0.2462 ppm	259.0068 ppm	51.8965 ppm	0.2181 ppm
Concentration per Run 1	0.0012 ppm	0.1199 ppm	0.2525 ppm	0.2470 ppm	259.1408 ppm	50.9913 ppm	0.2157 ppm
Concentration per Run 2	0.0012 ppm	0.1197 ppm	0.2514 ppm	0.2469 ppm	258.7118 ppm	53.3025 ppm	0.2241 ppm
Concentration per Run 3	0.0013 ppm	0.1198 ppm	0.2492 ppm	0.2449 ppm	259.1678 ppm	51.3958 ppm	0.2145 ppm
Concentration RSD	7.3 %	0.1 %	0.7 %	0.5 %	0.1 %	2.4 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	59.0086 ppm	2.8251 ppm	0.0016 ppm	0.9266 ppm	0.2277 ppm	0.1558 ppm	0.0039 ppm
Concentration per Run 1	59.2814 ppm	2.8174 ppm	0.0021 ppm	0.9340 ppm	0.2282 ppm	0.1561 ppm	0.0036 ppm
Concentration per Run 2	58.9210 ppm	2.8421 ppm	0.0014 ppm	0.9134 ppm	0.2273 ppm	0.1534 ppm	0.0014 ppm
Concentration per Run 3	58.8234 ppm	2.8158 ppm	0.0013 ppm	0.9326 ppm	0.2276 ppm	0.1577 ppm	0.0066 ppm
Concentration RSD	0.4 %	0.5 %	25.7 %	1.2 %	0.2 %	1.4 %	66.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	4.7098 ppm	0.0106 ppm	0.0485 ppm	12.5831 ppm	0.0136 ppm	0.3818 ppm
Concentration per Run 1	-0.0009 ppm	4.7331 ppm	0.0102 ppm	0.0490 ppm	12.6491 ppm	0.0128 ppm	0.3850 ppm
Concentration per Run 2	-0.0022 ppm	4.6896 ppm	0.0110 ppm	0.0478 ppm	12.5737 ppm	0.0147 ppm	0.3806 ppm
Concentration per Run 3	-0.0015 ppm	4.7067 ppm	0.0106 ppm	0.0488 ppm	12.5265 ppm	0.0133 ppm	0.3799 ppm
Concentration RSD	44.5 %	0.5 %	3.7 %	1.3 %	0.5 %	7.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6321 ppm	117.3581 %	113.6882 %	94.4213 %	129.0152 %	129.9495 %	130.1122 %
Concentration per Run 1	0.6365 ppm	117.3219 %	113.4135 %	94.1090 %	128.5828 %	130.0129 %	129.9869 %
Concentration per Run 2	0.6330 ppm	117.8427 %	115.0901 %	94.7876 %	129.8585 %	131.0595 %	130.4543 %
Concentration per Run 3	0.6269 ppm	116.9098 %	112.5610 %	94.3673 %	128.6043 %	128.7762 %	129.8952 %
Concentration RSD	0.8 %	0.4 %	1.1 %	0.4 %	0.6 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-17d2 WG1936261
Analysis started at: 6/20/2024 12:25:35 AM
Rack 3
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	110.7866 ppm	0.2800 ppm	0.0053 ppm	0.7905 ppm	0.0039 ppm	7.9754 ppm
Concentration per Run 1	0.0011 ppm	110.8504 ppm	0.2780 ppm	0.0053 ppm	0.7872 ppm	0.0039 ppm	7.9901 ppm
Concentration per Run 2	0.0015 ppm	110.5607 ppm	0.2798 ppm	0.0049 ppm	0.7912 ppm	0.0039 ppm	7.9508 ppm
Concentration per Run 3	0.0019 ppm	110.9487 ppm	0.2821 ppm	0.0055 ppm	0.7931 ppm	0.0039 ppm	7.9853 ppm
Concentration RSD	25.9 %	0.2 %	0.7 %	6.2 %	0.4 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0064 ppm	0.0630 ppm	0.3694 ppm	0.1526 ppm	163.8644 ppm	14.1752 ppm	0.1103 ppm
Concentration per Run 1	0.0065 ppm	0.0626 ppm	0.3712 ppm	0.1532 ppm	163.5153 ppm	14.2128 ppm	0.1144 ppm
Concentration per Run 2	0.0063 ppm	0.0633 ppm	0.3697 ppm	0.1514 ppm	164.7630 ppm	14.0912 ppm	0.1071 ppm
Concentration per Run 3	0.0064 ppm	0.0632 ppm	0.3672 ppm	0.1531 ppm	163.3150 ppm	14.2216 ppm	0.1093 ppm
Concentration RSD	1.6 %	0.5 %	0.6 %	0.7 %	0.5 %	0.5 %	3.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.2643 ppm	3.9277 ppm	0.0023 ppm	0.2960 ppm	0.1215 ppm	0.3895 ppm	0.0059 ppm
Concentration per Run 1	30.3336 ppm	3.9308 ppm	0.0026 ppm	0.3010 ppm	0.1212 ppm	0.3881 ppm	0.0045 ppm
Concentration per Run 2	30.2541 ppm	3.9253 ppm	0.0015 ppm	0.2956 ppm	0.1228 ppm	0.3900 ppm	0.0037 ppm
Concentration per Run 3	30.2052 ppm	3.9269 ppm	0.0028 ppm	0.2915 ppm	0.1206 ppm	0.3905 ppm	0.0094 ppm
Concentration RSD	0.2 %	0.1 %	31.9 %	1.6 %	0.9 %	0.3 %	52.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	4.7391 ppm	0.0109 ppm	0.0441 ppm	5.4510 ppm	0.0053 ppm	0.2231 ppm
Concentration per Run 1	-0.0009 ppm	4.7451 ppm	0.0115 ppm	0.0441 ppm	5.4661 ppm	0.0045 ppm	0.2237 ppm
Concentration per Run 2	-0.0006 ppm	4.7900 ppm	0.0110 ppm	0.0445 ppm	5.4548 ppm	0.0055 ppm	0.2233 ppm
Concentration per Run 3	-0.0010 ppm	4.6820 ppm	0.0101 ppm	0.0438 ppm	5.4321 ppm	0.0059 ppm	0.2223 ppm
Concentration RSD	26.5 %	1.1 %	6.7 %	0.8 %	0.3 %	14.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5358 ppm	111.8458 %	108.7499 %	99.1334 %	121.4806 %	121.5885 %	122.0492 %
Concentration per Run 1	0.5365 ppm	111.6862 %	108.9435 %	99.4473 %	120.9997 %	121.8153 %	121.7794 %
Concentration per Run 2	0.5379 ppm	111.8709 %	108.8332 %	99.3476 %	121.6117 %	121.7084 %	122.5136 %
Concentration per Run 3	0.5331 ppm	111.9802 %	108.4732 %	98.6053 %	121.8306 %	121.2419 %	121.8547 %
Concentration RSD	0.5 %	0.1 %	0.2 %	0.5 %	0.4 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-18d2 WG1936261
Analysis started at: 6/20/2024 12:29:37 AM
Rack 3
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	161.3985 ppm	0.0434 ppm	0.0047 ppm	0.8918 ppm	0.0053 ppm	10.3026 ppm
Concentration per Run 1	-0.0004 ppm	160.2602 ppm	0.0426 ppm	0.0042 ppm	0.8801 ppm	0.0056 ppm	10.3007 ppm
Concentration per Run 2	-0.0005 ppm	163.0618 ppm	0.0442 ppm	0.0042 ppm	0.8937 ppm	0.0050 ppm	10.2739 ppm
Concentration per Run 3	-0.0006 ppm	160.8734 ppm	0.0435 ppm	0.0058 ppm	0.9017 ppm	0.0055 ppm	10.3333 ppm
Concentration RSD	12.4 %	0.9 %	1.8 %	19.8 %	1.2 %	5.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.1046 ppm	0.2440 ppm	0.1907 ppm	250.3859 ppm	28.5292 ppm	0.1793 ppm
Concentration per Run 1	0.0016 ppm	0.1054 ppm	0.2445 ppm	0.1925 ppm	249.7985 ppm	28.0586 ppm	0.1762 ppm
Concentration per Run 2	0.0013 ppm	0.1044 ppm	0.2449 ppm	0.1903 ppm	249.0833 ppm	29.1732 ppm	0.1842 ppm
Concentration per Run 3	0.0011 ppm	0.1040 ppm	0.2427 ppm	0.1893 ppm	252.2758 ppm	28.3559 ppm	0.1775 ppm
Concentration RSD	18.1 %	0.7 %	0.5 %	0.8 %	0.7 %	2.0 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.7043 ppm	3.4386 ppm	0.0025 ppm	0.5346 ppm	0.1989 ppm	0.1202 ppm	0.0047 ppm
Concentration per Run 1	49.9740 ppm	3.4242 ppm	0.0027 ppm	0.5414 ppm	0.1999 ppm	0.1193 ppm	0.0039 ppm
Concentration per Run 2	49.6238 ppm	3.4430 ppm	0.0024 ppm	0.5172 ppm	0.1985 ppm	0.1204 ppm	0.0062 ppm
Concentration per Run 3	49.5151 ppm	3.4487 ppm	0.0024 ppm	0.5453 ppm	0.1982 ppm	0.1208 ppm	0.0039 ppm
Concentration RSD	0.5 %	0.4 %	5.8 %	2.8 %	0.4 %	0.6 %	27.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	3.6023 ppm	0.0071 ppm	0.0588 ppm	9.0475 ppm	0.0085 ppm	0.3510 ppm
Concentration per Run 1	0.0009 ppm	3.6408 ppm	0.0078 ppm	0.0592 ppm	9.0996 ppm	0.0082 ppm	0.3522 ppm
Concentration per Run 2	-0.0013 ppm	3.6021 ppm	0.0070 ppm	0.0575 ppm	9.0376 ppm	0.0099 ppm	0.3494 ppm
Concentration per Run 3	0.0001 ppm	3.5640 ppm	0.0065 ppm	0.0597 ppm	9.0053 ppm	0.0075 ppm	0.3514 ppm
Concentration RSD	945.3 %	1.1 %	9.3 %	1.9 %	0.5 %	14.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5260 ppm	115.5291 %	109.4910 %	96.9054 %	123.9936 %	122.3387 %	124.6619 %
Concentration per Run 1	0.5259 ppm	115.2128 %	109.1557 %	97.3260 %	123.0575 %	122.4267 %	125.1356 %
Concentration per Run 2	0.5267 ppm	115.6965 %	110.3402 %	96.5629 %	124.2841 %	122.4971 %	124.2476 %
Concentration per Run 3	0.5255 ppm	115.6782 %	108.9770 %	96.8273 %	124.6393 %	122.0923 %	124.6024 %
Concentration RSD	0.1 %	0.2 %	0.7 %	0.4 %	0.7 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-21d2 WG1936261
Analysis started at: 6/20/2024 12:33:38 AM
Rack 3
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0014 ppm	136.3508 ppm	0.5390 ppm	0.0080 ppm	0.8353 ppm	0.0039 ppm	12.2954 ppm
Concentration per Run 1	0.0012 ppm	136.5180 ppm	0.5454 ppm	0.0081 ppm	0.8334 ppm	0.0039 ppm	12.3452 ppm
Concentration per Run 2	0.0016 ppm	136.5669 ppm	0.5346 ppm	0.0088 ppm	0.8288 ppm	0.0039 ppm	12.2713 ppm
Concentration per Run 3	0.0016 ppm	135.9675 ppm	0.5370 ppm	0.0071 ppm	0.8437 ppm	0.0039 ppm	12.2697 ppm
Concentration RSD	14.6 %	0.2 %	1.0 %	10.2 %	0.9 %	1.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0050 ppm	0.0945 ppm	0.5368 ppm	0.2247 ppm	214.3072 ppm	23.5533 ppm	0.1598 ppm
Concentration per Run 1	0.0049 ppm	0.0953 ppm	0.5380 ppm	0.2264 ppm	213.7608 ppm	23.6842 ppm	0.1626 ppm
Concentration per Run 2	0.0051 ppm	0.0950 ppm	0.5344 ppm	0.2240 ppm	213.9776 ppm	23.6382 ppm	0.1598 ppm
Concentration per Run 3	0.0049 ppm	0.0931 ppm	0.5381 ppm	0.2238 ppm	215.1831 ppm	23.3376 ppm	0.1570 ppm
Concentration RSD	2.4 %	1.2 %	0.4 %	0.6 %	0.4 %	0.8 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	45.6629 ppm	3.1825 ppm	0.0035 ppm	0.4639 ppm	0.1740 ppm	1.0764 ppm	0.0068 ppm
Concentration per Run 1	45.9056 ppm	3.1854 ppm	0.0037 ppm	0.4678 ppm	0.1741 ppm	1.0827 ppm	0.0053 ppm
Concentration per Run 2	45.4853 ppm	3.1800 ppm	0.0033 ppm	0.4599 ppm	0.1736 ppm	1.0736 ppm	0.0092 ppm
Concentration per Run 3	45.5978 ppm	3.1821 ppm	0.0033 ppm	0.4641 ppm	0.1742 ppm	1.0729 ppm	0.0059 ppm
Concentration RSD	0.5 %	0.1 %	6.5 %	0.9 %	0.2 %	0.5 %	31.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	4.5738 ppm	0.0156 ppm	0.0553 ppm	9.1106 ppm	0.0078 ppm	0.3408 ppm
Concentration per Run 1	0.0015 ppm	4.5974 ppm	0.0162 ppm	0.0552 ppm	9.1555 ppm	0.0061 ppm	0.3426 ppm
Concentration per Run 2	0.0010 ppm	4.5356 ppm	0.0161 ppm	0.0548 ppm	9.0748 ppm	0.0099 ppm	0.3400 ppm
Concentration per Run 3	0.0005 ppm	4.5886 ppm	0.0144 ppm	0.0558 ppm	9.1014 ppm	0.0075 ppm	0.3397 ppm
Concentration RSD	49.8 %	0.7 %	6.4 %	0.9 %	0.5 %	24.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6582 ppm	113.8455 %	111.0089 %	96.3015 %	119.0071 %	119.6073 %	120.0961 %
Concentration per Run 1	0.6603 ppm	113.6248 %	111.1159 %	96.4874 %	118.4455 %	119.6724 %	120.7114 %
Concentration per Run 2	0.6538 ppm	114.1661 %	110.0949 %	96.1075 %	119.4963 %	118.8851 %	119.5983 %
Concentration per Run 3	0.6605 ppm	113.7456 %	111.8158 %	96.3095 %	119.0796 %	120.2642 %	119.9787 %
Concentration RSD	0.6 %	0.2 %	0.8 %	0.2 %	0.4 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/20/2024 12:37:39 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4684 ppm	0.4783 ppm	0.4468 ppm	0.4585 ppm	0.4763 ppm	0.4886 ppm	0.4719 ppm
Concentration per Run 1	0.4722 ppm	0.4813 ppm	0.4473 ppm	0.4612 ppm	0.4774 ppm	0.4878 ppm	0.4738 ppm
Concentration per Run 2	0.4675 ppm	0.4797 ppm	0.4478 ppm	0.4542 ppm	0.4755 ppm	0.4900 ppm	0.4730 ppm
Concentration per Run 3	0.4654 ppm	0.4737 ppm	0.4452 ppm	0.4599 ppm	0.4760 ppm	0.4881 ppm	0.4690 ppm
Recovery Percentage 1	93.682 %	95.652 %	89.355 %	91.691 %	95.259 %	97.725 %	94.387 %
Concentration RSD	0.7 %	0.8 %	0.3 %	0.8 %	0.2 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4696 ppm	0.4732 ppm	0.4636 ppm	0.4592 ppm	0.5197 ppm	5.4215 ppm	0.5013 ppm
Concentration per Run 1	0.4723 ppm	0.4760 ppm	0.4660 ppm	0.4637 ppm	0.5233 ppm	5.4551 ppm	0.5074 ppm
Concentration per Run 2	0.4682 ppm	0.4712 ppm	0.4619 ppm	0.4579 ppm	0.5170 ppm	5.3845 ppm	0.4991 ppm
Concentration per Run 3	0.4682 ppm	0.4724 ppm	0.4630 ppm	0.4560 ppm	0.5188 ppm	5.4249 ppm	0.4973 ppm
Recovery Percentage 1	93.916 %	94.639 %	92.726 %	91.846 %	103.939 %	108.430 %	100.256 %
Concentration RSD	0.5 %	0.5 %	0.5 %	0.9 %	0.6 %	0.7 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4619 ppm	0.4922 ppm	0.4533 ppm	10.1074 ppm	0.4763 ppm	0.4637 ppm	0.4580 ppm
Concentration per Run 1	0.4672 ppm	0.4928 ppm	0.4503 ppm	10.0920 ppm	0.4817 ppm	0.4637 ppm	0.4566 ppm
Concentration per Run 2	0.4595 ppm	0.4916 ppm	0.4531 ppm	10.1254 ppm	0.4724 ppm	0.4629 ppm	0.4572 ppm
Concentration per Run 3	0.4588 ppm	0.4921 ppm	0.4564 ppm	10.1047 ppm	0.4749 ppm	0.4643 ppm	0.4604 ppm
Recovery Percentage 1	92.371 %	98.436 %	90.657 %	101.074 %	95.266 %	92.731 %	91.607 %
Concentration RSD	1.0 %	0.1 %	0.7 %	0.2 %	1.0 %	0.1 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4571 ppm	4.8292 ppm	0.4833 ppm	0.4708 ppm	0.4719 ppm	0.4553 ppm	0.4636 ppm
Concentration per Run 1	0.4583 ppm	4.8617 ppm	0.4865 ppm	0.4697 ppm	0.4752 ppm	0.4554 ppm	0.4668 ppm
Concentration per Run 2	0.4576 ppm	4.8158 ppm	0.4803 ppm	0.4718 ppm	0.4707 ppm	0.4567 ppm	0.4627 ppm
Concentration per Run 3	0.4553 ppm	4.8100 ppm	0.4831 ppm	0.4708 ppm	0.4697 ppm	0.4537 ppm	0.4613 ppm
Recovery Percentage 1	91.410 %	91.984 %	96.660 %	94.161 %	94.375 %	91.051 %	92.722 %
Concentration RSD	0.3 %	0.6 %	0.6 %	0.2 %	0.6 %	0.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4715 ppm	107.8394 %	102.3598 %	106.3001 %	101.7130 %	98.9114 %	102.6450 %
Concentration per Run 1	0.4739 ppm	107.0186 %	101.9489 %	106.6852 %	100.7741 %	98.7524 %	103.0278 %
Concentration per Run 2	0.4690 ppm	108.2070 %	102.6688 %	106.0882 %	101.9101 %	99.0870 %	102.3660 %
Concentration per Run 3	0.4716 ppm	108.2927 %	102.4617 %	106.1270 %	102.4547 %	98.8949 %	102.5410 %
Recovery Percentage 1	94.301 %						
Concentration RSD	0.5 %	0.7 %	0.4 %	0.3 %	0.8 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/20/2024 12:41:39 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0072 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	0.0001 ppm	0.0084 ppm	-0.0007 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 2	-0.0002 ppm	0.0059 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0008 ppm	0.0072 ppm	-0.0003 ppm	-0.0019 ppm	-0.0002 ppm	0.0001 ppm	0.0068 ppm
Recovery Percentage 1	-4.459 %	7.159 %	3.127 %	-2.611 %	-0.267 %	0.814 %	3.420 %
Concentration RSD	142.8 %	17.2 %	1,125.8 %	129.8 %	626.0 %	125.8 %	96.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0066 ppm	-0.0063 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0005 ppm	0.0053 ppm	-0.0001 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0003 ppm	0.0070 ppm	-0.0002 ppm	0.0025 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0075 ppm	-0.0185 ppm	0.0014 ppm
Recovery Percentage 1	1.305 %	0.245 %	-1.738 %	0.874 %	13.182 %	-0.251 %	19.639 %
Concentration RSD	28.2 %	940.0 %	124.3 %	494.9 %	17.7 %	168.9 %	29.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0004 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 1	-0.0016 ppm	0.0000 ppm	0.0001 ppm	-0.0043 ppm	-0.0005 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 2	0.0009 ppm	0.0001 ppm	0.0005 ppm	0.0026 ppm	-0.0006 ppm	-0.0017 ppm	-0.0008 ppm
Concentration per Run 3	-0.0010 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm	-0.0015 ppm	-0.0008 ppm
Recovery Percentage 1	-0.550 %	0.914 %	0.646 %	-0.021 %	-1.437 %	-8.977 %	-0.484 %
Concentration RSD	235.4 %	98.4 %	56.4 %	844.6 %	76.4 %	134.1 %	411.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	0.0025 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0019 ppm	0.0049 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0045 ppm	0.0016 ppm	-0.0014 ppm	0.0002 ppm	-0.0001 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0014 ppm	0.0002 ppm
Recovery Percentage 1	-20.195 %	0.504 %	-1.150 %	0.670 %	0.113 %	-0.712 %	1.050 %
Concentration RSD	121.8 %	82.8 %	143.1 %	119.8 %	1,144.0 %	977.2 %	122.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	102.2070 %	98.4453 %	103.2575 %	102.2915 %	98.8461 %	103.5887 %
Concentration per Run 1	0.0004 ppm	100.3301 %	98.1520 %	102.6574 %	100.6967 %	98.9919 %	103.0845 %
Concentration per Run 2	0.0004 ppm	102.6872 %	97.7895 %	103.8196 %	102.6918 %	97.7995 %	104.1779 %
Concentration per Run 3	0.0007 ppm	103.6037 %	99.3944 %	103.2954 %	103.4859 %	99.7468 %	103.5035 %
Recovery Percentage 1	9.928 %						
Concentration RSD	41.5 %	1.7 %	0.9 %	0.6 %	1.4 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-22d2 WG1936261
Analysis started at: 6/20/2024 12:45:40 AM
Rack 3
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	168.5553 ppm	0.0769 ppm	0.0043 ppm	1.2907 ppm	0.0046 ppm	8.3882 ppm
Concentration per Run 1	-0.0011 ppm	168.2276 ppm	0.0759 ppm	0.0042 ppm	1.2792 ppm	0.0047 ppm	8.4014 ppm
Concentration per Run 2	-0.0012 ppm	168.3843 ppm	0.0782 ppm	0.0037 ppm	1.2910 ppm	0.0045 ppm	8.3693 ppm
Concentration per Run 3	-0.0007 ppm	169.0541 ppm	0.0766 ppm	0.0050 ppm	1.3018 ppm	0.0045 ppm	8.3940 ppm
Concentration RSD	27.6 %	0.3 %	1.5 %	15.6 %	0.9 %	2.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.1516 ppm	0.3061 ppm	0.2886 ppm	288.7497 ppm	56.9564 ppm	0.2384 ppm
Concentration per Run 1	0.0011 ppm	0.1517 ppm	0.3068 ppm	0.2886 ppm	287.8687 ppm	56.4338 ppm	0.2373 ppm
Concentration per Run 2	0.0012 ppm	0.1515 ppm	0.3058 ppm	0.2885 ppm	287.5641 ppm	57.1495 ppm	0.2406 ppm
Concentration per Run 3	0.0010 ppm	0.1516 ppm	0.3058 ppm	0.2886 ppm	290.8163 ppm	57.2859 ppm	0.2372 ppm
Concentration RSD	6.5 %	0.1 %	0.2 %	0.0 %	0.6 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	69.3902 ppm	3.2438 ppm	0.0009 ppm	1.0033 ppm	0.2525 ppm	0.2309 ppm	0.0043 ppm
Concentration per Run 1	69.7411 ppm	3.2366 ppm	0.0013 ppm	1.0067 ppm	0.2528 ppm	0.2321 ppm	0.0040 ppm
Concentration per Run 2	69.2667 ppm	3.2361 ppm	0.0007 ppm	0.9987 ppm	0.2515 ppm	0.2318 ppm	0.0080 ppm
Concentration per Run 3	69.1627 ppm	3.2588 ppm	0.0008 ppm	1.0045 ppm	0.2532 ppm	0.2287 ppm	0.0010 ppm
Concentration RSD	0.4 %	0.4 %	34.9 %	0.4 %	0.4 %	0.8 %	80.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	7.4296 ppm	0.0081 ppm	0.0419 ppm	13.8306 ppm	0.0131 ppm	0.3998 ppm
Concentration per Run 1	0.0013 ppm	7.5062 ppm	0.0086 ppm	0.0420 ppm	13.8873 ppm	0.0139 ppm	0.4020 ppm
Concentration per Run 2	-0.0022 ppm	7.3945 ppm	0.0093 ppm	0.0418 ppm	13.8055 ppm	0.0125 ppm	0.3985 ppm
Concentration per Run 3	-0.0031 ppm	7.3880 ppm	0.0066 ppm	0.0419 ppm	13.7991 ppm	0.0131 ppm	0.3989 ppm
Concentration RSD	177.3 %	0.9 %	17.2 %	0.3 %	0.4 %	5.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6373 ppm	116.2589 %	111.7461 %	91.7275 %	115.2370 %	115.2615 %	115.9993 %
Concentration per Run 1	0.6403 ppm	115.4674 %	111.4913 %	91.7150 %	113.9283 %	115.3207 %	115.6586 %
Concentration per Run 2	0.6342 ppm	116.3960 %	112.1281 %	91.8949 %	115.5153 %	115.3076 %	116.4480 %
Concentration per Run 3	0.6373 ppm	116.9132 %	111.6189 %	91.5726 %	116.2675 %	115.1561 %	115.8914 %
Concentration RSD	0.5 %	0.6 %	0.3 %	0.2 %	1.0 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-25d2 WG1936261
Analysis started at: 6/20/2024 12:49:41 AM
Rack 3
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	190.7531 ppm	1.3710 ppm	0.0089 ppm	1.3055 ppm	0.0072 ppm	9.4599 ppm
Concentration per Run 1	0.0032 ppm	190.7050 ppm	1.3765 ppm	0.0096 ppm	1.3031 ppm	0.0072 ppm	9.4794 ppm
Concentration per Run 2	0.0029 ppm	190.8851 ppm	1.3678 ppm	0.0078 ppm	1.3052 ppm	0.0072 ppm	9.4626 ppm
Concentration per Run 3	0.0027 ppm	190.6690 ppm	1.3686 ppm	0.0093 ppm	1.3082 ppm	0.0072 ppm	9.4378 ppm
Concentration RSD	8.3 %	0.1 %	0.4 %	10.8 %	0.2 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0090 ppm	0.1135 ppm	0.6680 ppm	0.2330 ppm	242.3581 ppm	17.1575 ppm	0.1799 ppm
Concentration per Run 1	0.0091 ppm	0.1138 ppm	0.6715 ppm	0.2341 ppm	242.1028 ppm	17.1328 ppm	0.1795 ppm
Concentration per Run 2	0.0092 ppm	0.1133 ppm	0.6652 ppm	0.2328 ppm	241.9624 ppm	17.1301 ppm	0.1793 ppm
Concentration per Run 3	0.0089 ppm	0.1134 ppm	0.6674 ppm	0.2320 ppm	243.0090 ppm	17.2096 ppm	0.1809 ppm
Concentration RSD	1.8 %	0.2 %	0.5 %	0.5 %	0.2 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	47.0932 ppm	7.7880 ppm	0.0036 ppm	0.4168 ppm	0.1953 ppm	1.0102 ppm	0.0139 ppm
Concentration per Run 1	47.4361 ppm	7.7783 ppm	0.0034 ppm	0.4195 ppm	0.1963 ppm	1.0129 ppm	0.0142 ppm
Concentration per Run 2	46.9658 ppm	7.7893 ppm	0.0033 ppm	0.4137 ppm	0.1949 ppm	1.0069 ppm	0.0129 ppm
Concentration per Run 3	46.8777 ppm	7.7965 ppm	0.0041 ppm	0.4173 ppm	0.1946 ppm	1.0108 ppm	0.0147 ppm
Concentration RSD	0.6 %	0.1 %	12.7 %	0.7 %	0.4 %	0.3 %	6.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	6.3400 ppm	0.0178 ppm	0.0606 ppm	9.3227 ppm	0.0079 ppm	0.3885 ppm
Concentration per Run 1	-0.0004 ppm	6.3737 ppm	0.0191 ppm	0.0610 ppm	9.3620 ppm	0.0082 ppm	0.3904 ppm
Concentration per Run 2	-0.0001 ppm	6.3018 ppm	0.0181 ppm	0.0603 ppm	9.2963 ppm	0.0074 ppm	0.3861 ppm
Concentration per Run 3	-0.0015 ppm	6.3445 ppm	0.0163 ppm	0.0604 ppm	9.3098 ppm	0.0081 ppm	0.3891 ppm
Concentration RSD	113.4 %	0.6 %	7.9 %	0.6 %	0.4 %	5.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7640 ppm	113.4667 %	112.5749 %	95.2582 %	**156.8499 %**	**160.8040 %**	**159.0484 %**
Concentration per Run 1	0.7694 ppm	112.4048 %	113.1269 %	94.7638 %	**155.5799 %**	**161.8805 %**	**158.3329 %**
Concentration per Run 2	0.7583 ppm	113.8289 %	111.5541 %	95.5687 %	**156.8276 %**	**159.4512 %**	**159.1124 %**
Concentration per Run 3	0.7642 ppm	114.1664 %	113.0436 %	95.4421 %	**158.1421 %**	**161.0801 %**	**159.7000 %**
Concentration RSD	0.7 %	0.8 %	0.8 %	0.5 %	**0.8 %**	**0.8 %**	**0.4 %**

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-26d2 WG1936261
Analysis started at: 6/20/2024 12:53:43 AM
Rack 3
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	176.8143 ppm	0.1156 ppm	0.0064 ppm	0.9132 ppm	0.0062 ppm	6.1516 ppm
Concentration per Run 1	-0.0001 ppm	176.9946 ppm	0.1159 ppm	0.0063 ppm	0.9106 ppm	0.0061 ppm	6.1273 ppm
Concentration per Run 2	0.0003 ppm	176.2956 ppm	0.1164 ppm	0.0071 ppm	0.9150 ppm	0.0062 ppm	6.1402 ppm
Concentration per Run 3	-0.0009 ppm	177.1527 ppm	0.1146 ppm	0.0059 ppm	0.9140 ppm	0.0062 ppm	6.1873 ppm
Concentration RSD	244.1 %	0.3 %	0.8 %	8.9 %	0.3 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1060 ppm	0.3150 ppm	0.2104 ppm	273.7236 ppm	20.6980 ppm	0.1825 ppm
Concentration per Run 1	0.0017 ppm	0.1067 ppm	0.3144 ppm	0.2112 ppm	272.6979 ppm	20.7802 ppm	0.1838 ppm
Concentration per Run 2	0.0016 ppm	0.1055 ppm	0.3144 ppm	0.2105 ppm	273.9477 ppm	20.6249 ppm	0.1820 ppm
Concentration per Run 3	0.0015 ppm	0.1058 ppm	0.3164 ppm	0.2094 ppm	274.5253 ppm	20.6889 ppm	0.1818 ppm
Concentration RSD	7.6 %	0.6 %	0.4 %	0.4 %	0.3 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.6695 ppm	4.0080 ppm	0.0036 ppm	0.5078 ppm	0.1911 ppm	0.1645 ppm	0.0048 ppm
Concentration per Run 1	53.9576 ppm	3.9994 ppm	0.0037 ppm	0.5102 ppm	0.1904 ppm	0.1649 ppm	0.0049 ppm
Concentration per Run 2	53.4706 ppm	4.0027 ppm	0.0033 ppm	0.5027 ppm	0.1900 ppm	0.1650 ppm	0.0046 ppm
Concentration per Run 3	53.5803 ppm	4.0219 ppm	0.0038 ppm	0.5107 ppm	0.1928 ppm	0.1635 ppm	0.0050 ppm
Concentration RSD	0.5 %	0.3 %	8.0 %	0.9 %	0.8 %	0.5 %	4.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	8.1281 ppm	0.0071 ppm	0.0532 ppm	11.1725 ppm	0.0113 ppm	0.4002 ppm
Concentration per Run 1	-0.0015 ppm	8.3496 ppm	0.0067 ppm	0.0533 ppm	11.2167 ppm	0.0125 ppm	0.4019 ppm
Concentration per Run 2	-0.0019 ppm	8.0513 ppm	0.0084 ppm	0.0533 ppm	11.1334 ppm	0.0107 ppm	0.3974 ppm
Concentration per Run 3	-0.0020 ppm	7.9833 ppm	0.0063 ppm	0.0532 ppm	11.1674 ppm	0.0106 ppm	0.4014 ppm
Concentration RSD	13.5 %	2.4 %	16.0 %	0.1 %	0.4 %	9.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5131 ppm	116.1163 %	111.7429 %	95.5677 %	137.9199 %	137.3622 %	139.8790 %
Concentration per Run 1	0.5117 ppm	115.6878 %	112.2215 %	95.2318 %	137.0260 %	137.8807 %	139.5863 %
Concentration per Run 2	0.5119 ppm	116.6889 %	111.6832 %	95.8921 %	138.4258 %	136.9984 %	140.3268 %
Concentration per Run 3	0.5157 ppm	115.9721 %	111.3240 %	95.5791 %	138.3079 %	137.2074 %	139.7240 %
Concentration RSD	0.4 %	0.4 %	0.4 %	0.3 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-29d2 WG1936261
Analysis started at: 6/20/2024 12:57:45 AM
Rack 3
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	177.6140 ppm	0.0362 ppm	0.0057 ppm	1.0512 ppm	0.0048 ppm	6.5806 ppm
Concentration per Run 1	-0.0009 ppm	177.6523 ppm	0.0364 ppm	0.0056 ppm	1.0534 ppm	0.0048 ppm	6.5640 ppm
Concentration per Run 2	-0.0011 ppm	178.2210 ppm	0.0373 ppm	0.0071 ppm	1.0537 ppm	0.0049 ppm	6.5979 ppm
Concentration per Run 3	-0.0008 ppm	176.9687 ppm	0.0349 ppm	0.0046 ppm	1.0466 ppm	0.0048 ppm	6.5799 ppm
Concentration RSD	17.7 %	0.4 %	3.4 %	22.0 %	0.4 %	1.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.1193 ppm	0.2501 ppm	0.1719 ppm	276.4867 ppm	33.1127 ppm	0.2106 ppm
Concentration per Run 1	0.0009 ppm	0.1206 ppm	0.2506 ppm	0.1731 ppm	275.9964 ppm	33.1619 ppm	0.2107 ppm
Concentration per Run 2	0.0007 ppm	0.1184 ppm	0.2503 ppm	0.1712 ppm	277.7014 ppm	33.3013 ppm	0.2130 ppm
Concentration per Run 3	0.0010 ppm	0.1188 ppm	0.2493 ppm	0.1713 ppm	275.7624 ppm	32.8749 ppm	0.2080 ppm
Concentration RSD	15.3 %	1.0 %	0.3 %	0.6 %	0.4 %	0.7 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	59.1216 ppm	3.3581 ppm	0.0008 ppm	0.5924 ppm	0.1912 ppm	0.0911 ppm	0.0054 ppm
Concentration per Run 1	59.5141 ppm	3.3556 ppm	0.0006 ppm	0.5903 ppm	0.1923 ppm	0.0924 ppm	0.0075 ppm
Concentration per Run 2	58.9414 ppm	3.3675 ppm	0.0009 ppm	0.5921 ppm	0.1916 ppm	0.0903 ppm	0.0037 ppm
Concentration per Run 3	58.9094 ppm	3.3511 ppm	0.0008 ppm	0.5946 ppm	0.1896 ppm	0.0907 ppm	0.0051 ppm
Concentration RSD	0.6 %	0.3 %	17.0 %	0.4 %	0.7 %	1.2 %	36.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	7.8921 ppm	0.0072 ppm	0.0505 ppm	14.0424 ppm	0.0118 ppm	0.4062 ppm
Concentration per Run 1	-0.0023 ppm	7.9972 ppm	0.0067 ppm	0.0505 ppm	14.1313 ppm	0.0129 ppm	0.4086 ppm
Concentration per Run 2	0.0005 ppm	7.8528 ppm	0.0072 ppm	0.0506 ppm	14.0254 ppm	0.0103 ppm	0.4061 ppm
Concentration per Run 3	0.0019 ppm	7.8262 ppm	0.0077 ppm	0.0504 ppm	13.9706 ppm	0.0123 ppm	0.4040 ppm
Concentration RSD	7,934.5 %	1.2 %	7.0 %	0.2 %	0.6 %	11.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5247 ppm	116.0110 %	113.7951 %	91.4338 %	117.9737 %	119.2937 %	119.8608 %
Concentration per Run 1	0.5280 ppm	115.7395 %	114.6447 %	91.7531 %	117.4802 %	119.8040 %	119.5228 %
Concentration per Run 2	0.5260 ppm	116.3375 %	113.3235 %	91.5158 %	118.4296 %	119.1074 %	119.3069 %
Concentration per Run 3	0.5200 ppm	115.9560 %	113.4171 %	91.0326 %	118.0114 %	118.9696 %	120.7527 %
Concentration RSD	0.8 %	0.3 %	0.6 %	0.4 %	0.4 %	0.4 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-30d2 WG1936261
Analysis started at: 6/20/2024 1:01:46 AM
Rack 3
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0012 ppm	167.2867 ppm	0.0101 ppm	0.0039 ppm	1.1173 ppm	0.0051 ppm	5.1269 ppm
Concentration per Run 1	-0.0006 ppm	167.1568 ppm	0.0093 ppm	0.0033 ppm	1.1192 ppm	0.0050 ppm	5.1186 ppm
Concentration per Run 2	-0.0017 ppm	168.0234 ppm	0.0114 ppm	0.0035 ppm	1.1198 ppm	0.0050 ppm	5.1330 ppm
Concentration per Run 3	-0.0012 ppm	166.6799 ppm	0.0097 ppm	0.0050 ppm	1.1130 ppm	0.0054 ppm	5.1289 ppm
Concentration RSD	45.6 %	0.4 %	11.2 %	23.7 %	0.3 %	3.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.1295 ppm	0.2812 ppm	0.2411 ppm	275.6645 ppm	50.6016 ppm	0.2145 ppm
Concentration per Run 1	0.0010 ppm	0.1310 ppm	0.2820 ppm	0.2437 ppm	276.0609 ppm	50.7938 ppm	0.2160 ppm
Concentration per Run 2	0.0006 ppm	0.1291 ppm	0.2807 ppm	0.2397 ppm	275.8671 ppm	50.8190 ppm	0.2141 ppm
Concentration per Run 3	0.0010 ppm	0.1285 ppm	0.2808 ppm	0.2400 ppm	275.0656 ppm	50.1920 ppm	0.2133 ppm
Concentration RSD	26.1 %	1.0 %	0.3 %	0.9 %	0.2 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	64.4030 ppm	3.8465 ppm	0.0009 ppm	0.7839 ppm	0.2030 ppm	0.0786 ppm	0.0037 ppm
Concentration per Run 1	64.8338 ppm	3.8474 ppm	0.0003 ppm	0.7805 ppm	0.2043 ppm	0.0795 ppm	0.0021 ppm
Concentration per Run 2	64.2231 ppm	3.8538 ppm	0.0009 ppm	0.7795 ppm	0.2026 ppm	0.0770 ppm	0.0023 ppm
Concentration per Run 3	64.1520 ppm	3.8382 ppm	0.0014 ppm	0.7915 ppm	0.2021 ppm	0.0793 ppm	0.0066 ppm
Concentration RSD	0.6 %	0.2 %	67.3 %	0.9 %	0.6 %	1.8 %	69.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	12.4831 ppm	0.0062 ppm	0.0692 ppm	16.1587 ppm	0.0170 ppm	0.4042 ppm
Concentration per Run 1	-0.0014 ppm	12.6097 ppm	0.0072 ppm	0.0691 ppm	16.2208 ppm	0.0150 ppm	0.4044 ppm
Concentration per Run 2	-0.0014 ppm	12.5009 ppm	0.0058 ppm	0.0689 ppm	16.1259 ppm	0.0181 ppm	0.4052 ppm
Concentration per Run 3	-0.0031 ppm	12.3388 ppm	0.0057 ppm	0.0696 ppm	16.1295 ppm	0.0179 ppm	0.4029 ppm
Concentration RSD	48.0 %	1.1 %	13.0 %	0.6 %	0.3 %	10.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5269 ppm	117.1386 %	112.2193 %	90.5669 %	120.3164 %	119.5471 %	122.0269 %
Concentration per Run 1	0.5300 ppm	115.5635 %	111.8644 %	90.8606 %	118.5017 %	119.2083 %	122.1592 %
Concentration per Run 2	0.5284 ppm	117.2290 %	112.7576 %	91.0973 %	120.4977 %	119.9739 %	122.8325 %
Concentration per Run 3	0.5221 ppm	118.6234 %	112.0359 %	89.7428 %	121.9498 %	119.4592 %	121.0891 %
Concentration RSD	0.8 %	1.3 %	0.4 %	0.8 %	1.4 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433398-33d2 WG1936261
Analysis started at: 6/20/2024 1:05:48 AM
Rack 3
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	159.5843 ppm	0.1857 ppm	0.0119 ppm	0.8947 ppm	0.0059 ppm	52.9062 ppm
Concentration per Run 1	0.0004 ppm	159.8108 ppm	0.1852 ppm	0.0117 ppm	0.8953 ppm	0.0059 ppm	53.0061 ppm
Concentration per Run 2	0.0003 ppm	159.4998 ppm	0.1870 ppm	0.0134 ppm	0.8996 ppm	0.0060 ppm	52.8587 ppm
Concentration per Run 3	0.0003 ppm	159.4422 ppm	0.1849 ppm	0.0106 ppm	0.8891 ppm	0.0060 ppm	52.8536 ppm
Concentration RSD	13.4 %	0.1 %	0.6 %	12.0 %	0.6 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0936 ppm	0.2928 ppm	0.2029 ppm	223.3666 ppm	12.1978 ppm	0.1472 ppm
Concentration per Run 1	0.0024 ppm	0.0940 ppm	0.2947 ppm	0.2037 ppm	223.3094 ppm	12.2773 ppm	0.1484 ppm
Concentration per Run 2	0.0024 ppm	0.0936 ppm	0.2944 ppm	0.2038 ppm	223.9628 ppm	12.1661 ppm	0.1474 ppm
Concentration per Run 3	0.0021 ppm	0.0932 ppm	0.2892 ppm	0.2013 ppm	222.8275 ppm	12.1498 ppm	0.1458 ppm
Concentration RSD	8.8 %	0.4 %	1.1 %	0.7 %	0.3 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.2146 ppm	4.8691 ppm	0.0042 ppm	0.4694 ppm	0.1786 ppm	0.6829 ppm	0.0056 ppm
Concentration per Run 1	63.8536 ppm	4.8693 ppm	0.0043 ppm	0.4696 ppm	0.1809 ppm	0.6822 ppm	0.0044 ppm
Concentration per Run 2	63.2673 ppm	4.8698 ppm	0.0037 ppm	0.4655 ppm	0.1793 ppm	0.6840 ppm	0.0062 ppm
Concentration per Run 3	62.5230 ppm	4.8682 ppm	0.0048 ppm	0.4731 ppm	0.1756 ppm	0.6823 ppm	0.0062 ppm
Concentration RSD	1.1 %	0.0 %	12.9 %	0.8 %	1.5 %	0.1 %	18.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	5.1316 ppm	0.0122 ppm	0.0942 ppm	7.6882 ppm	0.0080 ppm	0.3576 ppm
Concentration per Run 1	-0.0011 ppm	5.1659 ppm	0.0117 ppm	0.0939 ppm	7.7428 ppm	0.0081 ppm	0.3592 ppm
Concentration per Run 2	0.0008 ppm	5.1489 ppm	0.0124 ppm	0.0948 ppm	7.6866 ppm	0.0085 ppm	0.3578 ppm
Concentration per Run 3	0.0007 ppm	5.0801 ppm	0.0124 ppm	0.0940 ppm	7.6353 ppm	0.0074 ppm	0.3559 ppm
Concentration RSD	767.6 %	0.9 %	3.2 %	0.5 %	0.7 %	6.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6864 ppm	112.9504 %	110.9983 %	96.1616 %	140.9360 %	143.0927 %	142.3490 %
Concentration per Run 1	0.6918 ppm	111.6340 %	110.7278 %	96.6180 %	138.6606 %	142.7660 %	142.6490 %
Concentration per Run 2	0.6918 ppm	112.8364 %	111.0575 %	96.4275 %	141.0982 %	143.1287 %	142.5399 %
Concentration per Run 3	0.6756 ppm	114.3809 %	111.2096 %	95.4393 %	143.0491 %	143.3834 %	141.8580 %
Concentration RSD	1.4 %	1.2 %	0.2 %	0.7 %	1.6 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/20/2024 1:09:50 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4674 ppm	0.4724 ppm	0.4430 ppm	0.4572 ppm	0.4766 ppm	0.4880 ppm	0.4755 ppm
Concentration per Run 1	0.4704 ppm	0.4691 ppm	0.4445 ppm	0.4596 ppm	0.4741 ppm	0.4857 ppm	0.4736 ppm
Concentration per Run 2	0.4662 ppm	0.4724 ppm	0.4414 ppm	0.4565 ppm	0.4782 ppm	0.4891 ppm	0.4749 ppm
Concentration per Run 3	0.4655 ppm	0.4756 ppm	0.4431 ppm	0.4556 ppm	0.4776 ppm	0.4894 ppm	0.4779 ppm
Recovery Percentage 1	93.475 %	94.476 %	88.607 %	91.447 %	95.329 %	97.607 %	95.096 %
Concentration RSD	0.6 %	0.7 %	0.3 %	0.5 %	0.5 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4678 ppm	0.4722 ppm	0.4626 ppm	0.4573 ppm	0.5227 ppm	5.4234 ppm	0.5036 ppm
Concentration per Run 1	0.4721 ppm	0.4761 ppm	0.4658 ppm	0.4598 ppm	0.5181 ppm	5.3821 ppm	0.5028 ppm
Concentration per Run 2	0.4657 ppm	0.4705 ppm	0.4618 ppm	0.4560 ppm	0.5242 ppm	5.4675 ppm	0.5047 ppm
Concentration per Run 3	0.4657 ppm	0.4700 ppm	0.4603 ppm	0.4561 ppm	0.5260 ppm	5.4207 ppm	0.5032 ppm
Recovery Percentage 1	93.569 %	94.442 %	92.526 %	91.457 %	104.549 %	108.469 %	100.714 %
Concentration RSD	0.8 %	0.7 %	0.6 %	0.5 %	0.8 %	0.8 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4636 ppm	0.4960 ppm	0.4536 ppm	10.1296 ppm	0.4733 ppm	0.4608 ppm	0.4558 ppm
Concentration per Run 1	0.4682 ppm	0.4953 ppm	0.4541 ppm	10.1083 ppm	0.4761 ppm	0.4606 ppm	0.4572 ppm
Concentration per Run 2	0.4613 ppm	0.4957 ppm	0.4514 ppm	10.1469 ppm	0.4730 ppm	0.4603 ppm	0.4541 ppm
Concentration per Run 3	0.4612 ppm	0.4969 ppm	0.4553 ppm	10.1337 ppm	0.4709 ppm	0.4614 ppm	0.4562 ppm
Recovery Percentage 1	92.711 %	99.199 %	90.718 %	101.296 %	94.668 %	92.156 %	91.168 %
Concentration RSD	0.9 %	0.2 %	0.4 %	0.2 %	0.6 %	0.1 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4520 ppm	4.8362 ppm	0.4779 ppm	0.4669 ppm	0.4720 ppm	0.4515 ppm	0.4630 ppm
Concentration per Run 1	0.4529 ppm	4.8788 ppm	0.4837 ppm	0.4643 ppm	0.4740 ppm	0.4516 ppm	0.4663 ppm
Concentration per Run 2	0.4502 ppm	4.8181 ppm	0.4747 ppm	0.4690 ppm	0.4709 ppm	0.4514 ppm	0.4618 ppm
Concentration per Run 3	0.4528 ppm	4.8118 ppm	0.4753 ppm	0.4675 ppm	0.4711 ppm	0.4514 ppm	0.4608 ppm
Recovery Percentage 1	90.394 %	92.119 %	95.573 %	93.388 %	94.400 %	90.296 %	92.593 %
Concentration RSD	0.3 %	0.8 %	1.1 %	0.5 %	0.4 %	0.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4712 ppm	107.9902 %	100.9299 %	105.7326 %	101.7894 %	97.4736 %	102.1633 %
Concentration per Run 1	0.4749 ppm	107.4357 %	100.9674 %	106.0743 %	101.0415 %	97.2623 %	102.3480 %
Concentration per Run 2	0.4693 ppm	108.3932 %	100.5005 %	105.3331 %	102.1846 %	96.9746 %	101.9826 %
Concentration per Run 3	0.4693 ppm	108.1417 %	101.3217 %	105.7904 %	102.1420 %	98.1840 %	102.1593 %
Recovery Percentage 1	94.235 %						
Concentration RSD	0.7 %	0.5 %	0.4 %	0.4 %	0.6 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/20/2024 1:13:50 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0083 ppm	-0.0008 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	0.0004 ppm	0.0088 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	0.0144 ppm	-0.0009 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 3	-0.0001 ppm	0.0018 ppm	-0.0017 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0035 ppm
Recovery Percentage 1	2.058 %	8.329 %	-25.285 %	0.503 %	-2.116 %	0.869 %	3.376 %
Concentration RSD	186.9 %	75.5 %	137.1 %	70.0 %	57.6 %	134.4 %	85.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0077 ppm	0.0254 ppm	-0.0021 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0004 ppm	0.0080 ppm	0.0045 ppm	-0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0076 ppm	0.0399 ppm	-0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	0.0077 ppm	0.0317 ppm	-0.0016 ppm
Recovery Percentage 1	0.324 %	0.952 %	-0.695 %	1.159 %	15.498 %	1.015 %	-20.914 %
Concentration RSD	335.2 %	261.5 %	198.6 %	219.3 %	2.7 %	73.1 %	33.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	0.0001 ppm	0.0004 ppm	-0.0022 ppm	0.0004 ppm	-0.0017 ppm	0.0014 ppm
Concentration per Run 1	-0.0007 ppm	-0.0001 ppm	0.0009 ppm	-0.0025 ppm	0.0012 ppm	-0.0017 ppm	0.0011 ppm
Concentration per Run 2	0.0009 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0020 ppm	-0.0009 ppm
Concentration per Run 3	0.0009 ppm	0.0002 ppm	0.0002 ppm	-0.0038 ppm	0.0000 ppm	-0.0015 ppm	0.0040 ppm
Recovery Percentage 1	0.332 %	1.339 %	0.841 %	-0.109 %	1.786 %	-16.991 %	2.767 %
Concentration RSD	278.4 %	147.4 %	101.4 %	82.0 %	154.1 %	14.4 %	177.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	0.0056 ppm	-0.0010 ppm	0.0000 ppm	0.0002 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0022 ppm	0.0031 ppm	-0.0007 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0032 ppm	0.0014 ppm	-0.0018 ppm	-0.0002 ppm	-0.0002 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	-0.0013 ppm	0.0125 ppm	-0.0007 ppm	0.0001 ppm	0.0006 ppm	-0.0010 ppm	-0.0002 ppm
Recovery Percentage 1	-22.400 %	1.129 %	-2.094 %	-0.270 %	2.285 %	-3.851 %	0.475 %
Concentration RSD	41.5 %	106.3 %	61.9 %	654.3 %	166.2 %	44.3 %	381.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	102.3543 %	97.9618 %	102.4141 %	102.3923 %	98.3334 %	102.9787 %
Concentration per Run 1	0.0005 ppm	101.2027 %	98.4118 %	102.4521 %	101.8751 %	99.0169 %	103.4411 %
Concentration per Run 2	0.0004 ppm	103.0355 %	97.9728 %	102.3889 %	102.9049 %	98.1827 %	102.8699 %
Concentration per Run 3	0.0004 ppm	102.8248 %	97.5007 %	102.4013 %	102.3969 %	97.8005 %	102.6252 %
Recovery Percentage 1	8.041 %						
Concentration RSD	15.5 %	1.0 %	0.5 %	0.0 %	0.5 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/20/2024 1:17:50 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4678 ppm	0.4688 ppm	0.4468 ppm	0.4577 ppm	0.4774 ppm	0.4901 ppm	0.4737 ppm
Concentration per Run 1	0.4711 ppm	0.4668 ppm	0.4469 ppm	0.4579 ppm	0.4755 ppm	0.4881 ppm	0.4735 ppm
Concentration per Run 2	0.4661 ppm	0.4680 ppm	0.4481 ppm	0.4588 ppm	0.4781 ppm	0.4899 ppm	0.4747 ppm
Concentration per Run 3	0.4661 ppm	0.4716 ppm	0.4454 ppm	0.4564 ppm	0.4785 ppm	0.4922 ppm	0.4728 ppm
Recovery Percentage 1	93.553 %	93.764 %	89.358 %	91.540 %	95.472 %	98.012 %	94.733 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.3 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4670 ppm	0.4728 ppm	0.4629 ppm	0.4556 ppm	0.5138 ppm	5.4177 ppm	0.5026 ppm
Concentration per Run 1	0.4699 ppm	0.4762 ppm	0.4671 ppm	0.4565 ppm	0.5114 ppm	5.4369 ppm	0.5066 ppm
Concentration per Run 2	0.4657 ppm	0.4718 ppm	0.4612 ppm	0.4556 ppm	0.5190 ppm	5.4213 ppm	0.4991 ppm
Concentration per Run 3	0.4654 ppm	0.4703 ppm	0.4603 ppm	0.4546 ppm	0.5111 ppm	5.3948 ppm	0.5021 ppm
Recovery Percentage 1	93.402 %	94.551 %	92.574 %	91.115 %	102.767 %	108.353 %	100.515 %
Concentration RSD	0.5 %	0.6 %	0.8 %	0.2 %	0.9 %	0.4 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4605 ppm	0.4950 ppm	0.4527 ppm	10.1223 ppm	0.4746 ppm	0.4655 ppm	0.4553 ppm
Concentration per Run 1	0.4656 ppm	0.4965 ppm	0.4515 ppm	10.1172 ppm	0.4804 ppm	0.4674 ppm	0.4561 ppm
Concentration per Run 2	0.4586 ppm	0.4935 ppm	0.4511 ppm	10.0899 ppm	0.4714 ppm	0.4641 ppm	0.4551 ppm
Concentration per Run 3	0.4574 ppm	0.4950 ppm	0.4556 ppm	10.1597 ppm	0.4718 ppm	0.4650 ppm	0.4545 ppm
Recovery Percentage 1	92.107 %	99.000 %	90.548 %	101.223 %	94.912 %	93.103 %	91.051 %
Concentration RSD	1.0 %	0.3 %	0.5 %	0.3 %	1.1 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4540 ppm	4.8133 ppm	0.4805 ppm	0.4707 ppm	0.4700 ppm	0.4522 ppm	0.4619 ppm
Concentration per Run 1	0.4519 ppm	4.8446 ppm	0.4847 ppm	0.4698 ppm	0.4738 ppm	0.4507 ppm	0.4646 ppm
Concentration per Run 2	0.4566 ppm	4.7807 ppm	0.4802 ppm	0.4697 ppm	0.4672 ppm	0.4543 ppm	0.4613 ppm
Concentration per Run 3	0.4535 ppm	4.8146 ppm	0.4766 ppm	0.4727 ppm	0.4691 ppm	0.4516 ppm	0.4597 ppm
Recovery Percentage 1	90.803 %	91.682 %	96.100 %	94.150 %	94.005 %	90.440 %	92.374 %
Concentration RSD	0.5 %	0.7 %	0.8 %	0.4 %	0.7 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4701 ppm	107.3810 %	101.7845 %	105.7903 %	100.8749 %	98.0284 %	102.3809 %
Concentration per Run 1	0.4745 ppm	106.3547 %	102.4190 %	105.4424 %	99.4384 %	98.9083 %	102.1500 %
Concentration per Run 2	0.4689 ppm	107.4976 %	102.1112 %	106.0429 %	101.2603 %	97.9116 %	102.5170 %
Concentration per Run 3	0.4669 ppm	108.2906 %	100.8234 %	105.8855 %	101.9261 %	97.2651 %	102.4756 %
Recovery Percentage 1	94.020 %						
Concentration RSD	0.8 %	0.9 %	0.8 %	0.3 %	1.3 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/20/2024 1:21:50 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0083 ppm	-0.0007 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	0.0003 ppm	0.0048 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 2	0.0004 ppm	-0.0003 ppm	-0.0012 ppm	0.0015 ppm	-0.0002 ppm	0.0000 ppm	0.0050 ppm
Concentration per Run 3	-0.0004 ppm	0.0203 ppm	-0.0005 ppm	-0.0008 ppm	-0.0004 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	1.008 %	8.251 %	-21.850 %	0.553 %	-2.756 %	0.269 %	3.273 %
Concentration RSD	594.3 %	130.0 %	79.4 %	704.5 %	27.9 %	195.2 %	115.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0049 ppm	-0.0136 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0045 ppm	-0.0401 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0004 ppm	0.0055 ppm	-0.0288 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0046 ppm	0.0280 ppm	-0.0009 ppm
Recovery Percentage 1	-0.417 %	0.026 %	0.485 %	2.487 %	9.747 %	-0.544 %	5.737 %
Concentration RSD	498.9 %	13,260.7 %	127.1 %	63.5 %	10.9 %	268.3 %	281.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0000 ppm	0.0011 ppm	-0.0065 ppm	-0.0006 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0010 ppm	-0.0130 ppm	-0.0005 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	-0.0015 ppm	-0.0001 ppm	0.0012 ppm	-0.0069 ppm	-0.0009 ppm	-0.0007 ppm	-0.0024 ppm
Concentration per Run 3	-0.0021 ppm	0.0001 ppm	0.0011 ppm	0.0004 ppm	-0.0005 ppm	-0.0017 ppm	0.0019 ppm
Recovery Percentage 1	-1.072 %	-0.338 %	2.184 %	-0.324 %	-2.471 %	-12.930 %	-0.401 %
Concentration RSD	125.5 %	284.0 %	10.5 %	103.5 %	38.3 %	40.3 %	1,091.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0033 ppm	0.0000 ppm	-0.0012 ppm	0.0000 ppm	0.0002 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	-0.0022 ppm	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 3	-0.0028 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	-27.994 %	0.091 %	-0.578 %	0.340 %	0.935 %	-2.559 %	0.412 %
Concentration RSD	19.0 %	136.7 %	271.1 %	363.3 %	224.4 %	175.2 %	876.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	102.3775 %	98.3159 %	103.1637 %	101.9456 %	98.0465 %	103.3621 %
Concentration per Run 1	0.0003 ppm	100.7401 %	97.7823 %	102.6806 %	100.9989 %	97.7964 %	102.6961 %
Concentration per Run 2	0.0005 ppm	102.7227 %	98.3972 %	103.8356 %	102.0815 %	97.9549 %	104.0845 %
Concentration per Run 3	0.0005 ppm	103.6696 %	98.7680 %	102.9750 %	102.7563 %	98.3881 %	103.3056 %
Recovery Percentage 1	8.052 %						
Concentration RSD	32.0 %	1.5 %	0.5 %	0.6 %	0.9 %	0.3 %	0.7 %

iCAP Pro Trace 8 Data report

6/20/2024 6:18:51 AM

LabBook: WG1936236_06192024T8.imexp

Sample: LLOQ
Analysis started at: 6/20/2024 1:25:51 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0064 ppm	0.1046 ppm	0.0043 ppm	0.0277 ppm	0.0096 ppm	0.0047 ppm	0.0966 ppm
Concentration per Run 1	0.0062 ppm	0.1085 ppm	0.0048 ppm	0.0282 ppm	0.0096 ppm	0.0047 ppm	0.0995 ppm
Concentration per Run 2	0.0063 ppm	0.1031 ppm	0.0055 ppm	0.0276 ppm	0.0097 ppm	0.0048 ppm	0.0941 ppm
Concentration per Run 3	0.0066 ppm	0.1021 ppm	0.0027 ppm	0.0272 ppm	0.0095 ppm	0.0047 ppm	0.0962 ppm
Recovery Percentage 1	91.082 %	104.579 %	86.708 %	92.242 %	95.891 %	94.842 %	96.599 %
Concentration RSD	3.3 %	3.3 %	33.1 %	1.8 %	1.3 %	1.3 %	2.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0039 ppm	0.0190 ppm	0.0092 ppm	0.0097 ppm	0.0693 ppm	2.8013 ppm	0.0126 ppm
Concentration per Run 1	0.0039 ppm	0.0194 ppm	0.0095 ppm	0.0098 ppm	0.0684 ppm	2.8267 ppm	0.0133 ppm
Concentration per Run 2	0.0038 ppm	0.0190 ppm	0.0094 ppm	0.0099 ppm	0.0708 ppm	2.8022 ppm	0.0136 ppm
Concentration per Run 3	0.0039 ppm	0.0186 ppm	0.0088 ppm	0.0093 ppm	0.0688 ppm	2.7749 ppm	0.0110 ppm
Recovery Percentage 1	77.247 %	94.965 %	92.328 %	96.508 %	138.664 %	112.050 %	126.337 %
Concentration RSD	1.8 %	2.0 %	4.2 %	3.5 %	1.9 %	0.9 %	11.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0958 ppm	0.0106 ppm	0.0462 ppm	2.1246 ppm	0.0240 ppm	0.0084 ppm	0.0488 ppm
Concentration per Run 1	0.0964 ppm	0.0106 ppm	0.0459 ppm	2.1225 ppm	0.0246 ppm	0.0087 ppm	0.0505 ppm
Concentration per Run 2	0.0954 ppm	0.0107 ppm	0.0466 ppm	2.1259 ppm	0.0239 ppm	0.0077 ppm	0.0466 ppm
Concentration per Run 3	0.0956 ppm	0.0105 ppm	0.0461 ppm	2.1254 ppm	0.0234 ppm	0.0088 ppm	0.0493 ppm
Recovery Percentage 1	95.782 %	105.762 %	92.375 %	106.228 %	95.847 %	83.943 %	97.608 %
Concentration RSD	0.5 %	1.0 %	0.8 %	0.1 %	2.5 %	7.3 %	4.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0071 ppm	0.4869 ppm	0.0466 ppm	0.0093 ppm	0.0468 ppm	0.0170 ppm	0.0092 ppm
Concentration per Run 1	0.0074 ppm	0.4944 ppm	0.0469 ppm	0.0093 ppm	0.0473 ppm	0.0170 ppm	0.0095 ppm
Concentration per Run 2	0.0062 ppm	0.4832 ppm	0.0459 ppm	0.0091 ppm	0.0462 ppm	0.0166 ppm	0.0090 ppm
Concentration per Run 3	0.0076 ppm	0.4833 ppm	0.0469 ppm	0.0096 ppm	0.0469 ppm	0.0173 ppm	0.0091 ppm
Recovery Percentage 1	70.808 %	97.388 %	93.161 %	93.122 %	93.643 %	84.904 %	92.066 %
Concentration RSD	11.2 %	1.3 %	1.2 %	2.7 %	1.2 %	2.2 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	106.5883 %	103.1694 %	106.3681 %	102.0890 %	100.0939 %	103.4373 %
Concentration per Run 1	0.0052 ppm	104.3681 %	103.3963 %	106.1580 %	100.0869 %	100.8348 %	103.0812 %
Concentration per Run 2	0.0051 ppm	107.3599 %	103.2261 %	106.4834 %	102.8829 %	99.8658 %	103.7395 %
Concentration per Run 3	0.0047 ppm	108.0370 %	102.8859 %	106.4630 %	103.2973 %	99.5812 %	103.4913 %
Recovery Percentage 1	99.679 %						
Concentration RSD	5.3 %	1.8 %	0.3 %	0.2 %	1.7 %	0.7 %	0.3 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: Blank DMC Trace6
Analysis started at: 6/19/2024 5:09:58 AM
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.7 %	0.4 %	0.5 %	0.3 %	-0.7 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.3 %	1.0 %	0.0 %	0.0 %	0.6 %	0.2 %	-1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.3 %	0.5 %	0.9 %	-0.2 %	-0.3 %	-0.1 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.1 %	-0.8 %	-0.2 %	-0.1 %	0.3 %	-0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	-1.3 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: ICAL
Analysis started at: 6/19/2024 5:16:38 AM
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0010 ppm	25.5678 ppm	1.0024 ppm	0.9989 ppm	1.0198 ppm	1.0192 ppm	10.2040 ppm
Concentration per Run 2	0.9992 ppm	24.7716 ppm	0.9981 ppm	1.0005 ppm	0.9917 ppm	0.9926 ppm	9.9256 ppm
Concentration per Run 3	0.9999 ppm	24.6606 ppm	0.9994 ppm	1.0006 ppm	0.9885 ppm	0.9882 ppm	9.8704 ppm
Concentration RSD	0.1 %	2.0 %	0.2 %	0.1 %	1.7 %	1.7 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9981 ppm	0.9996 ppm	1.0022 ppm	1.0009 ppm	25.5077 ppm	35.6828 ppm	10.0197 ppm
Concentration per Run 2	1.0007 ppm	1.0000 ppm	1.0009 ppm	1.0002 ppm	24.7733 ppm	34.7336 ppm	9.9966 ppm
Concentration per Run 3	1.0012 ppm	1.0003 ppm	0.9968 ppm	0.9989 ppm	24.7190 ppm	34.5836 ppm	9.9836 ppm
Concentration RSD	0.2 %	0.0 %	0.3 %	0.1 %	1.8 %	1.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0209 ppm	0.9947 ppm	25.4658 ppm	0.9987 ppm	0.9994 ppm	0.9983 ppm	0.9998 ppm
Concentration per Run 2	0.9905 ppm	1.0003 ppm	24.7969 ppm	0.9997 ppm	1.0006 ppm	1.0002 ppm	1.0000 ppm
Concentration per Run 3	0.9886 ppm	1.0050 ppm	24.7373 ppm	1.0016 ppm	1.0000 ppm	1.0015 ppm	1.0002 ppm
Concentration RSD	1.8 %	0.5 %	1.6 %	0.2 %	0.1 %	0.2 %	0.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0060 ppm	0.9985 ppm	1.0192 ppm	1.0008 ppm	1.0005 ppm	1.0010 ppm	0.9989 ppm
Concentration per Run 2	9.9990 ppm	0.9994 ppm	0.9920 ppm	0.9992 ppm	0.9992 ppm	1.0000 ppm	1.0002 ppm
Concentration per Run 3	9.9950 ppm	1.0021 ppm	0.9888 ppm	1.0000 ppm	1.0003 ppm	0.9990 ppm	1.0009 ppm
Concentration RSD	0.1 %	0.2 %	1.7 %	0.1 %	0.1 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0489 %	97.4921 %	96.0003 %	89.6481 %	89.4907 %	94.4703 %	1.0000 ppm
Concentration per Run 1	96.2354 %	97.4115 %	95.8903 %	87.9501 %	89.5415 %	94.3593 %	1.0178 ppm
Concentration per Run 2	101.7506 %	97.4544 %	96.0324 %	90.4753 %	89.5153 %	94.4314 %	0.9940 ppm
Concentration per Run 3	102.1606 %	97.6105 %	96.0783 %	90.5189 %	89.4154 %	94.6203 %	0.9881 ppm
Concentration RSD	3.3 %	0.1 %	0.1 %	1.6 %	0.1 %	0.1 %	1.6 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: ICV
Analysis started at: 6/19/2024 5:22:54 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4932 ppm	0.4863 ppm	0.4874 ppm	0.4730 ppm	0.4997 ppm	0.5115 ppm	0.5045 ppm
Concentration per Run 1	0.4929 ppm	0.4992 ppm	0.4867 ppm	0.4734 ppm	0.5127 ppm	0.5247 ppm	0.5225 ppm
Concentration per Run 2	0.4936 ppm	0.4797 ppm	0.4876 ppm	0.4730 ppm	0.4951 ppm	0.5074 ppm	0.4988 ppm
Concentration per Run 3	0.4932 ppm	0.4801 ppm	0.4879 ppm	0.4725 ppm	0.4912 ppm	0.5023 ppm	0.4923 ppm
Recovery Percentage 1	98.648 %	97.264 %	97.479 %	94.591 %	99.934 %	102.300 %	100.907 %
Concentration RSD	0.1 %	2.3 %	0.1 %	0.1 %	2.3 %	2.3 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4762 ppm	0.4853 ppm	0.4922 ppm	0.4839 ppm	0.5185 ppm	5.2631 ppm	0.5011 ppm
Concentration per Run 1	0.4770 ppm	0.4860 ppm	0.4925 ppm	0.4840 ppm	0.5316 ppm	5.3964 ppm	0.5028 ppm
Concentration per Run 2	0.4755 ppm	0.4852 ppm	0.4937 ppm	0.4827 ppm	0.5130 ppm	5.2206 ppm	0.5025 ppm
Concentration per Run 3	0.4761 ppm	0.4849 ppm	0.4903 ppm	0.4849 ppm	0.5110 ppm	5.1723 ppm	0.4981 ppm
Recovery Percentage 1	95.245 %	97.068 %	98.434 %	96.781 %	103.706 %	105.262 %	100.226 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.2 %	2.2 %	2.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5024 ppm	0.4735 ppm	10.1096 ppm	0.4878 ppm	0.4925 ppm	0.4801 ppm	0.4741 ppm
Concentration per Run 1	0.5148 ppm	0.4731 ppm	10.3583 ppm	0.4884 ppm	0.4932 ppm	0.4807 ppm	0.4767 ppm
Concentration per Run 2	0.4990 ppm	0.4731 ppm	10.0185 ppm	0.4883 ppm	0.4928 ppm	0.4800 ppm	0.4735 ppm
Concentration per Run 3	0.4935 ppm	0.4743 ppm	9.9520 ppm	0.4869 ppm	0.4913 ppm	0.4796 ppm	0.4721 ppm
Recovery Percentage 1	100.489 %	94.700 %	101.096 %	97.566 %	98.492 %	96.023 %	94.820 %
Concentration RSD	2.2 %	0.1 %	2.2 %	0.2 %	0.2 %	0.1 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3143 ppm	0.4856 ppm	0.4903 ppm	0.4994 ppm	0.5003 ppm	0.4851 ppm	0.4811 ppm
Concentration per Run 1	5.3198 ppm	0.4864 ppm	0.5025 ppm	0.4999 ppm	0.5010 ppm	0.4858 ppm	0.4823 ppm
Concentration per Run 2	5.3187 ppm	0.4851 ppm	0.4860 ppm	0.4996 ppm	0.5003 ppm	0.4853 ppm	0.4802 ppm
Concentration per Run 3	5.3044 ppm	0.4853 ppm	0.4822 ppm	0.4985 ppm	0.4997 ppm	0.4843 ppm	0.4808 ppm
Recovery Percentage 1	101.225 %	97.113 %	98.054 %	99.875 %	100.070 %	97.027 %	96.222 %
Concentration RSD	0.2 %	0.1 %	2.2 %	0.1 %	0.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1875 %	100.8359 %	99.3575 %	89.2364 %	96.5051 %	97.8931 %	0.6254 ppm
Concentration per Run 1	97.9916 %	100.9488 %	99.4706 %	87.2484 %	96.4632 %	97.8809 %	0.6397 ppm
Concentration per Run 2	102.8337 %	100.5625 %	99.1992 %	90.0711 %	96.4189 %	97.7265 %	0.6210 ppm
Concentration per Run 3	102.7373 %	100.9965 %	99.4028 %	90.3896 %	96.6332 %	98.0720 %	0.6156 ppm
Recovery Percentage 1							125.084 %
Concentration RSD	2.7 %	0.2 %	0.1 %	1.9 %	0.1 %	0.2 %	2.0 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: ICB
Analysis started at: 6/19/2024 5:29:12 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0021 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 1	-0.0003 ppm	-0.0017 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	-0.0001 ppm	-0.0039 ppm	-0.0006 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0059 ppm
Concentration per Run 3	-0.0001 ppm	-0.0008 ppm	-0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0001 ppm	0.0067 ppm
Recovery Percentage 1	-2.391 %	0.000 %	-4.893 %	2.083 %	0.583 %	0.596 %	0.001 %
Concentration RSD	49.1 %	75.4 %	136.7 %	20.6 %	174.1 %	128.7 %	36.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0010 ppm	0.0446 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0506 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0254 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0019 ppm	0.0577 ppm	0.0020 ppm
Recovery Percentage 1	0.360 %	-0.095 %	0.915 %	-0.741 %	0.001 %	1.783 %	0.000 %
Concentration RSD	101.2 %	424.2 %	168.6 %	196.6 %	107.9 %	38.1 %	120.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	-0.0022 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 2	0.0002 ppm	0.0007 ppm	-0.0018 ppm	0.0000 ppm	-0.0003 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	-0.0030 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0006 ppm
Recovery Percentage 1	1.033 %	1.396 %	-0.110 %	0.109 %	-1.635 %	1.290 %	5.140 %
Concentration RSD	112.8 %	8.1 %	33.6 %	113.9 %	76.9 %	77.8 %	107.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0011 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.0014 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	-0.0011 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	-0.227 %	-0.334 %	-0.536 %	-0.953 %	1.884 %	0.167 %	4.359 %
Concentration RSD	22.9 %	104.2 %	214.7 %	130.6 %	146.1 %	630.7 %	9.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.2001 %	102.6272 %	100.3068 %	83.0028 %	99.1249 %	97.4515 %	0.0008 ppm
Concentration per Run 1	99.2521 %	102.6710 %	100.5348 %	78.9754 %	99.1739 %	97.3576 %	0.0007 ppm
Concentration per Run 2	104.7021 %	102.4663 %	100.2930 %	84.6434 %	99.1718 %	97.3630 %	0.0007 ppm
Concentration per Run 3	102.6460 %	102.7444 %	100.0925 %	85.3895 %	99.0291 %	97.6338 %	0.0009 ppm
Recovery Percentage 1							7.667 %
Concentration RSD	2.7 %	0.1 %	0.2 %	4.2 %	0.1 %	0.2 %	16.5 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: ICV
Analysis started at: 6/19/2024 5:35:55 AM
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4927 ppm	0.4827 ppm	0.4843 ppm	0.4723 ppm	0.4923 ppm	0.5006 ppm	0.5001 ppm
Concentration per Run 1	0.4930 ppm	0.4684 ppm	0.4829 ppm	0.4711 ppm	0.4837 ppm	0.4925 ppm	0.4917 ppm
Concentration per Run 2	0.4918 ppm	0.4945 ppm	0.4863 ppm	0.4722 ppm	0.5016 ppm	0.5094 ppm	0.5131 ppm
Concentration per Run 3	0.4931 ppm	0.4851 ppm	0.4839 ppm	0.4735 ppm	0.4915 ppm	0.4998 ppm	0.4954 ppm
Recovery Percentage 1	98.531 %	96.531 %	96.870 %	94.457 %	98.455 %	100.112 %	100.011 %
Concentration RSD	0.1 %	2.7 %	0.4 %	0.3 %	1.8 %	1.7 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4741 ppm	0.4828 ppm	0.4893 ppm	0.4805 ppm	0.5043 ppm	5.1943 ppm	0.4979 ppm
Concentration per Run 1	0.4745 ppm	0.4827 ppm	0.4885 ppm	0.4811 ppm	0.4976 ppm	5.1257 ppm	0.4944 ppm
Concentration per Run 2	0.4733 ppm	0.4825 ppm	0.4906 ppm	0.4797 ppm	0.5144 ppm	5.2946 ppm	0.5012 ppm
Concentration per Run 3	0.4744 ppm	0.4830 ppm	0.4890 ppm	0.4807 ppm	0.5011 ppm	5.1627 ppm	0.4981 ppm
Recovery Percentage 1	94.811 %	96.551 %	97.869 %	96.095 %	100.869 %	103.887 %	99.577 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	1.8 %	1.7 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4933 ppm	0.4713 ppm	9.9562 ppm	0.4863 ppm	0.4908 ppm	0.4796 ppm	0.4717 ppm
Concentration per Run 1	0.4861 ppm	0.4690 ppm	9.7809 ppm	0.4861 ppm	0.4905 ppm	0.4785 ppm	0.4707 ppm
Concentration per Run 2	0.5010 ppm	0.4706 ppm	10.1400 ppm	0.4860 ppm	0.4905 ppm	0.4793 ppm	0.4706 ppm
Concentration per Run 3	0.4928 ppm	0.4742 ppm	9.9477 ppm	0.4867 ppm	0.4913 ppm	0.4812 ppm	0.4738 ppm
Recovery Percentage 1	98.663 %	94.250 %	99.562 %	97.256 %	98.155 %	95.928 %	94.339 %
Concentration RSD	1.5 %	0.6 %	1.8 %	0.1 %	0.1 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9281 ppm	0.4947 ppm	0.4886 ppm	0.4964 ppm	0.4974 ppm	0.4834 ppm	0.4784 ppm
Concentration per Run 1	4.9158 ppm	0.4955 ppm	0.4799 ppm	0.4967 ppm	0.4970 ppm	0.4835 ppm	0.4791 ppm
Concentration per Run 2	4.9300 ppm	0.4930 ppm	0.4979 ppm	0.4964 ppm	0.4966 ppm	0.4836 ppm	0.4778 ppm
Concentration per Run 3	4.9384 ppm	0.4956 ppm	0.4879 ppm	0.4961 ppm	0.4986 ppm	0.4831 ppm	0.4782 ppm
Recovery Percentage 1	93.868 %	98.941 %	97.711 %	99.280 %	99.481 %	96.678 %	95.672 %
Concentration RSD	0.2 %	0.3 %	1.8 %	0.1 %	0.2 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.5615 %	100.9227 %	99.5422 %	91.1869 %	96.5501 %	98.2117 %	0.4839 ppm
Concentration per Run 1	104.2265 %	101.0033 %	99.7926 %	92.6982 %	96.8154 %	98.1849 %	0.4741 ppm
Concentration per Run 2	102.5004 %	100.8268 %	99.3524 %	89.7353 %	96.6141 %	98.1985 %	0.4934 ppm
Concentration per Run 3	103.9578 %	100.9379 %	99.4815 %	91.1273 %	96.2208 %	98.2516 %	0.4842 ppm
Recovery Percentage 1							96.772 %
Concentration RSD	0.9 %	0.1 %	0.2 %	1.6 %	0.3 %	0.0 %	2.0 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: ICB
Analysis started at: 6/19/2024 5:42:16 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0022 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 1	0.0002 ppm	0.0020 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 2	0.0000 ppm	-0.0080 ppm	-0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0040 ppm
Recovery Percentage 1	1.957 %	0.000 %	3.845 %	2.485 %	1.003 %	0.775 %	0.001 %
Concentration RSD	83.9 %	242.1 %	300.2 %	12.6 %	18.7 %	53.1 %	17.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0384 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	0.0510 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm	0.0325 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0317 ppm	0.0009 ppm
Recovery Percentage 1	0.212 %	-0.213 %	0.809 %	0.120 %	0.000 %	1.536 %	0.000 %
Concentration RSD	187.7 %	101.3 %	181.9 %	622.1 %	104.9 %	28.5 %	567.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0042 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0047 ppm	0.0002 ppm	-0.0003 ppm	-0.0006 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	-0.0024 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0056 ppm	-0.0001 ppm	-0.0006 ppm	0.0003 ppm	-0.0008 ppm
Recovery Percentage 1	-0.277 %	1.184 %	-0.211 %	0.443 %	-3.692 %	-0.471 %	-4.882 %
Concentration RSD	228.1 %	14.1 %	38.1 %	154.1 %	57.7 %	186.1 %	233.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0016 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Recovery Percentage 1	-0.263 %	-0.243 %	-0.175 %	-0.312 %	0.027 %	1.566 %	2.674 %
Concentration RSD	32.5 %	103.5 %	220.6 %	809.0 %	5,621.6 %	20.0 %	25.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4362 %	102.7048 %	100.3628 %	83.0451 %	99.1557 %	97.5749 %	-0.0001 ppm
Concentration per Run 1	99.3980 %	102.4947 %	100.5472 %	79.6486 %	99.2376 %	97.2616 %	0.0004 ppm
Concentration per Run 2	102.2765 %	102.7772 %	100.1953 %	83.6918 %	99.0767 %	97.7615 %	-0.0005 ppm
Concentration per Run 3	102.6340 %	102.8424 %	100.3458 %	85.7950 %	99.1528 %	97.7017 %	-0.0003 ppm
Recovery Percentage 1							-1.348 %
Concentration RSD	1.7 %	0.2 %	0.2 %	3.8 %	0.1 %	0.3 %	329.9 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: LLOQ RL Check
Analysis started at: 6/19/2024 5:49:00 AM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0070 ppm	0.1009 ppm	0.0047 ppm	0.0283 ppm	0.0106 ppm	0.0053 ppm	0.1085 ppm
Concentration per Run 1	0.0069 ppm	0.1105 ppm	0.0040 ppm	0.0284 ppm	0.0111 ppm	0.0055 ppm	0.1119 ppm
Concentration per Run 2	0.0069 ppm	0.0979 ppm	0.0052 ppm	0.0282 ppm	0.0105 ppm	0.0052 ppm	0.1061 ppm
Concentration per Run 3	0.0070 ppm	0.0944 ppm	0.0047 ppm	0.0284 ppm	0.0103 ppm	0.0051 ppm	0.1075 ppm
Recovery Percentage 1	99.468 %	100.928 %	93.160 %	94.414 %	106.127 %	105.010 %	108.512 %
Concentration RSD	1.1 %	8.4 %	12.7 %	0.3 %	4.0 %	4.2 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0038 ppm	0.0191 ppm	0.0102 ppm	0.0104 ppm	**0.0607 ppm**	2.7914 ppm	0.1056 ppm
Concentration per Run 1	0.0038 ppm	0.0192 ppm	0.0103 ppm	0.0104 ppm	0.0627 ppm	2.9012 ppm	0.1028 ppm
Concentration per Run 2	0.0038 ppm	0.0190 ppm	0.0102 ppm	0.0104 ppm	0.0596 ppm	2.7472 ppm	0.1069 ppm
Concentration per Run 3	0.0038 ppm	0.0191 ppm	0.0100 ppm	0.0103 ppm	0.0598 ppm	2.7260 ppm	0.1072 ppm
Recovery Percentage 1	94.419 %	95.553 %	101.530 %	103.662 %	121.356 %	111.657 %	105.627 %
Concentration RSD	0.3 %	0.6 %	1.5 %	0.5 %	**2.8 %**	3.4 %	2.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0112 ppm	0.0471 ppm	2.1802 ppm	0.0239 ppm	0.0099 ppm	0.0483 ppm	0.0102 ppm
Concentration per Run 1	0.0118 ppm	0.0470 ppm	2.2677 ppm	0.0239 ppm	0.0099 ppm	0.0484 ppm	0.0093 ppm
Concentration per Run 2	0.0110 ppm	0.0471 ppm	2.1513 ppm	0.0240 ppm	0.0098 ppm	0.0482 ppm	0.0108 ppm
Concentration per Run 3	0.0108 ppm	0.0473 ppm	2.1217 ppm	0.0239 ppm	0.0099 ppm	0.0482 ppm	0.0104 ppm
Recovery Percentage 1	112.152 %	94.287 %	109.011 %	95.649 %	98.689 %	96.560 %	101.573 %
Concentration RSD	4.7 %	0.3 %	3.5 %	0.2 %	0.8 %	0.2 %	7.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4918 ppm	0.0483 ppm	0.0101 ppm	0.0497 ppm	0.0199 ppm	0.0099 ppm	0.0051 ppm
Concentration per Run 1	0.4910 ppm	0.0479 ppm	0.0104 ppm	0.0497 ppm	0.0193 ppm	0.0099 ppm	0.0051 ppm
Concentration per Run 2	0.4920 ppm	0.0484 ppm	0.0100 ppm	0.0497 ppm	0.0201 ppm	0.0098 ppm	0.0051 ppm
Concentration per Run 3	0.4924 ppm	0.0488 ppm	0.0097 ppm	0.0495 ppm	0.0202 ppm	0.0099 ppm	0.0050 ppm
Recovery Percentage 1	98.359 %	96.670 %	100.671 %	99.310 %	99.311 %	98.710 %	101.594 %
Concentration RSD	0.2 %	1.0 %	3.5 %	0.3 %	2.6 %	0.4 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3152 %	102.0864 %	100.8541 %	87.2843 %	99.2946 %	99.6463 %	0.0114 ppm
Concentration per Run 1	97.5317 %	101.9440 %	101.0212 %	83.3885 %	99.5222 %	99.5095 %	0.0109 ppm
Concentration per Run 2	103.3525 %	102.1566 %	100.8214 %	88.6472 %	99.1114 %	99.6580 %	0.0123 ppm
Concentration per Run 3	103.0614 %	102.1586 %	100.7196 %	89.8172 %	99.2502 %	99.7715 %	0.0110 ppm
Recovery Percentage 1							114.126 %
Concentration RSD	3.2 %	0.1 %	0.2 %	3.9 %	0.2 %	0.1 %	6.7 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: ICSA
Analysis started at: 6/19/2024 5:55:37 AM
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	510.7730 ppm	-0.0093 ppm	-0.0005 ppm	0.0022 ppm	-0.0001 ppm	467.8436 ppm
Concentration per Run 1	0.0003 ppm	523.2450 ppm	-0.0123 ppm	0.0001 ppm	0.0023 ppm	-0.0001 ppm	473.0430 ppm
Concentration per Run 2	0.0001 ppm	500.8891 ppm	-0.0093 ppm	-0.0005 ppm	0.0022 ppm	-0.0001 ppm	463.1370 ppm
Concentration per Run 3	0.0000 ppm	508.1850 ppm	-0.0062 ppm	-0.0010 ppm	0.0022 ppm	-0.0001 ppm	467.3509 ppm
Recovery Percentage 1	1.907 %	102.155 %	-185.904 %	-1.570 %	22.249 %	-1.879 %	93.569 %
Concentration RSD	110.9 %	2.2 %	32.9 %	119.9 %	2.2 %	21.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0033 ppm	0.0003 ppm	-0.0004 ppm	0.0017 ppm	183.3938 ppm	0.0778 ppm	474.1602 ppm
Concentration per Run 1	-0.0034 ppm	0.0003 ppm	-0.0006 ppm	0.0019 ppm	188.7817 ppm	0.0378 ppm	473.3233 ppm
Concentration per Run 2	-0.0034 ppm	0.0003 ppm	-0.0003 ppm	0.0017 ppm	181.3733 ppm	0.0948 ppm	477.0930 ppm
Concentration per Run 3	-0.0032 ppm	0.0001 ppm	-0.0004 ppm	0.0015 ppm	180.0266 ppm	0.1009 ppm	472.0642 ppm
Recovery Percentage 1	-82.848 %	1.305 %	-4.468 %	16.818 %	91.697 %	3.113 %	94.832 %
Concentration RSD	3.8 %	43.4 %	27.4 %	9.4 %	2.6 %	44.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0022 ppm	-0.0011 ppm	0.0443 ppm	-0.0010 ppm	-0.0085 ppm	0.0087 ppm	0.0017 ppm
Concentration per Run 1	0.0023 ppm	-0.0012 ppm	0.0411 ppm	-0.0005 ppm	-0.0070 ppm	0.0087 ppm	0.0032 ppm
Concentration per Run 2	0.0019 ppm	-0.0011 ppm	0.0438 ppm	-0.0014 ppm	-0.0088 ppm	0.0106 ppm	0.0000 ppm
Concentration per Run 3	0.0023 ppm	-0.0011 ppm	0.0480 ppm	-0.0010 ppm	-0.0096 ppm	0.0068 ppm	0.0020 ppm
Recovery Percentage 1	21.754 %	-2.292 %	2.214 %	-3.838 %	-84.788 %	17.424 %	17.217 %
Concentration RSD	9.6 %	5.3 %	7.8 %	46.2 %	15.7 %	21.5 %	95.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0052 ppm	0.0007 ppm	0.0045 ppm	0.0026 ppm	-0.0064 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 1	0.0051 ppm	0.0008 ppm	0.0046 ppm	0.0026 ppm	-0.0081 ppm	-0.0009 ppm	0.0008 ppm
Concentration per Run 2	0.0049 ppm	0.0001 ppm	0.0045 ppm	0.0029 ppm	-0.0070 ppm	-0.0007 ppm	0.0012 ppm
Concentration per Run 3	0.0058 ppm	0.0012 ppm	0.0046 ppm	0.0023 ppm	-0.0042 ppm	-0.0010 ppm	0.0009 ppm
Recovery Percentage 1	1.046 %	1.416 %	45.464 %	25.730 %	-32.099 %	-8.531 %	19.162 %
Concentration RSD	9.2 %	84.2 %	0.9 %	12.4 %	31.0 %	19.5 %	21.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3678 %	84.3353 %	84.1892 %	84.5254 %	76.2165 %	82.7544 %	-0.0780 ppm
Concentration per Run 1	95.0428 %	84.5937 %	84.2673 %	83.4976 %	76.2794 %	82.9442 %	-0.0783 ppm
Concentration per Run 2	96.2714 %	83.9935 %	84.0912 %	85.3856 %	76.1113 %	82.4123 %	-0.0777 ppm
Concentration per Run 3	94.7893 %	84.4186 %	84.2092 %	84.6931 %	76.2589 %	82.9067 %	-0.0780 ppm
Recovery Percentage 1							-779.996 %
Concentration RSD	0.8 %	0.4 %	0.1 %	1.1 %	0.1 %	0.4 %	0.4 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: SIC Cr Mn V Ti (Si Contamination)
Analysis started at: 6/19/2024 6:09:40 AM
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	-0.0014 ppm	-0.0066 ppm	0.0028 ppm	0.0005 ppm	-0.0044 ppm	0.0298 ppm
Concentration per Run 1	-0.0001 ppm	-0.0028 ppm	-0.0069 ppm	0.0026 ppm	0.0004 ppm	-0.0044 ppm	0.0297 ppm
Concentration per Run 2	-0.0004 ppm	0.0013 ppm	-0.0068 ppm	0.0028 ppm	0.0006 ppm	-0.0045 ppm	0.0295 ppm
Concentration per Run 3	-0.0007 ppm	-0.0027 ppm	-0.0062 ppm	0.0030 ppm	0.0005 ppm	-0.0044 ppm	0.0302 ppm
Recovery Percentage 1	-5.785 %	0.000 %	-132.636 %	9.338 %	5.301 %	-88.791 %	0.006 %
Concentration RSD	78.3 %	164.5 %	5.6 %	7.7 %	20.1 %	1.5 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0033 ppm	-0.0136 ppm	19.8411 ppm	-0.0104 ppm	0.0187 ppm	0.0182 ppm	-0.0175 ppm
Concentration per Run 1	-0.0033 ppm	-0.0137 ppm	19.8726 ppm	-0.0104 ppm	0.0191 ppm	0.0194 ppm	-0.0184 ppm
Concentration per Run 2	-0.0033 ppm	-0.0136 ppm	19.8581 ppm	-0.0105 ppm	0.0187 ppm	0.0240 ppm	-0.0185 ppm
Concentration per Run 3	-0.0033 ppm	-0.0136 ppm	19.7926 ppm	-0.0103 ppm	0.0183 ppm	0.0113 ppm	-0.0156 ppm
Recovery Percentage 1	-82.718 %	-68.222 %	198,410.866 %	-104.205 %	0.009 %	0.730 %	-0.004 %
Concentration RSD	0.4 %	0.4 %	0.2 %	0.9 %	2.1 %	35.1 %	9.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	20.4514 ppm	-0.0016 ppm	0.0030 ppm	0.0003 ppm	-0.0079 ppm	-0.0081 ppm	0.0013 ppm
Concentration per Run 1	20.6351 ppm	-0.0015 ppm	0.0042 ppm	0.0001 ppm	-0.0079 ppm	-0.0081 ppm	0.0008 ppm
Concentration per Run 2	20.1784 ppm	-0.0016 ppm	0.0015 ppm	0.0004 ppm	-0.0073 ppm	-0.0088 ppm	0.0010 ppm
Concentration per Run 3	20.5406 ppm	-0.0016 ppm	0.0033 ppm	0.0003 ppm	-0.0085 ppm	-0.0076 ppm	0.0020 ppm
Recovery Percentage 1	204,513.780 %	-3.154 %	0.150 %	1.179 %	-79.084 %	-16.248 %	12.536 %
Concentration RSD	1.2 %	4.7 %	47.2 %	52.4 %	7.6 %	7.4 %	50.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1248 ppm	-0.0041 ppm	0.0008 ppm	19.9358 ppm	-0.0051 ppm	10.1192 ppm	-0.0003 ppm
Concentration per Run 1	0.1269 ppm	-0.0043 ppm	0.0008 ppm	19.9786 ppm	-0.0048 ppm	10.1135 ppm	-0.0004 ppm
Concentration per Run 2	0.1250 ppm	-0.0038 ppm	0.0008 ppm	19.9093 ppm	-0.0053 ppm	10.1325 ppm	-0.0001 ppm
Concentration per Run 3	0.1225 ppm	-0.0042 ppm	0.0008 ppm	19.9194 ppm	-0.0052 ppm	10.1117 ppm	-0.0005 ppm
Recovery Percentage 1	24.963 %	-8.221 %	7.872 %	199,357.541 %	-25.553 %	101,192.159 %	-6.830 %
Concentration RSD	1.8 %	7.4 %	5.2 %	0.2 %	4.9 %	0.1 %	53.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7872 %	100.8349 %	102.0993 %	90.9313 %	97.1907 %	99.3403 %	-0.0024 ppm
Concentration per Run 1	98.0130 %	100.9804 %	102.2988 %	90.0859 %	97.3485 %	99.4528 %	-0.0029 ppm
Concentration per Run 2	100.6952 %	100.7280 %	102.0761 %	91.3933 %	97.2967 %	99.3427 %	-0.0019 ppm
Concentration per Run 3	100.6534 %	100.7963 %	101.9229 %	91.3145 %	96.9271 %	99.2254 %	-0.0026 ppm
Recovery Percentage 1							-24.474 %
Concentration RSD	1.5 %	0.1 %	0.2 %	0.8 %	0.2 %	0.1 %	20.0 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: LDR Check
Analysis started at: 6/19/2024 6:23:54 AM
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	0.0323 ppm	21.7195 ppm	20.2182 ppm	19.2585 ppm	4.8579 ppm	0.0346 ppm
Concentration per Run 1	0.0013 ppm	0.0261 ppm	21.7075 ppm	20.2050 ppm	19.2263 ppm	4.8717 ppm	0.0356 ppm
Concentration per Run 2	0.0002 ppm	0.0335 ppm	21.7196 ppm	20.2108 ppm	19.1392 ppm	4.8197 ppm	0.0315 ppm
Concentration per Run 3	0.0011 ppm	0.0372 ppm	21.7315 ppm	20.2386 ppm	19.4100 ppm	4.8822 ppm	0.0365 ppm
Recovery Percentage 1	0.000 %	0.000 %	108.598 %	101.091 %	96.293 %	97.158 %	0.000 %
Concentration RSD	66.8 %	17.6 %	0.1 %	0.1 %	0.7 %	0.7 %	7.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	5.2049 ppm	5.1415 ppm	0.0056 ppm	20.4336 ppm	0.1025 ppm	492.2497 ppm	-0.0085 ppm
Concentration per Run 1	5.2028 ppm	5.1385 ppm	0.0057 ppm	20.4394 ppm	0.1026 ppm	499.8268 ppm	-0.0059 ppm
Concentration per Run 2	5.2025 ppm	5.1402 ppm	0.0059 ppm	20.4411 ppm	0.1029 ppm	489.3760 ppm	-0.0098 ppm
Concentration per Run 3	5.2094 ppm	5.1458 ppm	0.0054 ppm	20.4203 ppm	0.1022 ppm	487.5462 ppm	-0.0096 ppm
Recovery Percentage 1	104.098 %	102.830 %	0.000 %	102.168 %	0.000 %	98.450 %	0.000 %
Concentration RSD	0.1 %	0.1 %	4.5 %	0.1 %	0.3 %	1.3 %	25.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	5.4537 ppm	408.3580 ppm	10.1295 ppm	50.9194 ppm	5.6581 ppm	5.5180 ppm
Concentration per Run 1	0.0008 ppm	5.4452 ppm	410.0646 ppm	10.1266 ppm	50.8825 ppm	5.6617 ppm	5.5205 ppm
Concentration per Run 2	0.0010 ppm	5.4568 ppm	410.6527 ppm	10.1275 ppm	50.9081 ppm	5.6542 ppm	5.5115 ppm
Concentration per Run 3	0.0011 ppm	5.4590 ppm	404.3566 ppm	10.1344 ppm	50.9676 ppm	5.6583 ppm	5.5221 ppm
Recovery Percentage 1	0.000 %	109.073 %	81.672 %	101.295 %	101.839 %	113.162 %	110.361 %
Concentration RSD	14.1 %	0.1 %	0.9 %	0.0 %	0.1 %	0.1 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	23.1139 ppm	7.7794 ppm	4.7649 ppm	0.0037 ppm	4.6788 ppm	-0.0102 ppm	20.2831 ppm
Concentration per Run 1	23.0973 ppm	7.7692 ppm	4.7445 ppm	0.0038 ppm	4.6742 ppm	-0.0102 ppm	20.2603 ppm
Concentration per Run 2	23.1080 ppm	7.7754 ppm	4.7882 ppm	0.0036 ppm	4.6831 ppm	-0.0103 ppm	20.2782 ppm
Concentration per Run 3	23.1364 ppm	7.7935 ppm	4.7620 ppm	0.0037 ppm	4.6791 ppm	-0.0099 ppm	20.3108 ppm
Recovery Percentage 1	115.570 %	77.794 %	95.298 %	0.000 %	93.576 %	0.000 %	101.416 %
Concentration RSD	0.1 %	0.2 %	0.5 %	2.8 %	0.1 %	2.0 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7562 %	84.4726 %	84.3028 %	89.4369 %	76.7329 %	84.7252 %	19.0285 ppm
Concentration per Run 1	99.0106 %	84.4542 %	84.4746 %	89.6681 %	76.8518 %	84.7058 %	18.9943 ppm
Concentration per Run 2	98.7679 %	84.5020 %	84.2491 %	89.3811 %	76.7361 %	84.7775 %	19.0125 ppm
Concentration per Run 3	98.4900 %	84.4615 %	84.1846 %	89.2615 %	76.6109 %	84.6922 %	19.0787 ppm
Recovery Percentage 1							95.142 %
Concentration RSD	0.3 %	0.0 %	0.2 %	0.2 %	0.2 %	0.1 %	0.2 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: LLOQ 0.05
Analysis started at: 6/19/2024 6:55:44 AM
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0511 ppm	0.0439 ppm	0.0489 ppm	0.0495 ppm	0.0435 ppm	0.0440 ppm	0.0548 ppm
Concentration per Run 1	0.0509 ppm	0.0439 ppm	0.0486 ppm	0.0490 ppm	0.0422 ppm	0.0430 ppm	0.0526 ppm
Concentration per Run 2	0.0514 ppm	0.0421 ppm	0.0489 ppm	0.0497 ppm	0.0435 ppm	0.0439 ppm	0.0540 ppm
Concentration per Run 3	0.0510 ppm	0.0456 ppm	0.0493 ppm	0.0497 ppm	0.0447 ppm	0.0451 ppm	0.0579 ppm
Recovery Percentage 1	0.000 %	87.730 %	0.000 %	0.000 %	0.000 %	0.000 %	109.689 %
Concentration RSD	0.5 %	3.9 %	0.7 %	0.8 %	2.9 %	2.4 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0470 ppm	0.0476 ppm	0.0480 ppm	0.0493 ppm	0.0462 ppm	0.6025 ppm	0.0521 ppm
Concentration per Run 1	0.0469 ppm	0.0473 ppm	0.0476 ppm	0.0491 ppm	0.0468 ppm	0.5834 ppm	0.0523 ppm
Concentration per Run 2	0.0469 ppm	0.0476 ppm	0.0483 ppm	0.0492 ppm	0.0452 ppm	0.6077 ppm	0.0524 ppm
Concentration per Run 3	0.0471 ppm	0.0479 ppm	0.0481 ppm	0.0494 ppm	0.0468 ppm	0.6164 ppm	0.0516 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	92.459 %	24.099 %	104.217 %
Concentration RSD	0.3 %	0.7 %	0.7 %	0.3 %	2.0 %	2.8 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0450 ppm	0.0474 ppm	0.9541 ppm	0.0491 ppm	0.0508 ppm	0.0490 ppm	0.0485 ppm
Concentration per Run 1	0.0438 ppm	0.0473 ppm	0.9263 ppm	0.0491 ppm	0.0510 ppm	0.0488 ppm	0.0483 ppm
Concentration per Run 2	0.0448 ppm	0.0475 ppm	0.9566 ppm	0.0491 ppm	0.0507 ppm	0.0493 ppm	0.0477 ppm
Concentration per Run 3	0.0463 ppm	0.0474 ppm	0.9795 ppm	0.0492 ppm	0.0506 ppm	0.0490 ppm	0.0494 ppm
Recovery Percentage 1	0.000 %	0.000 %	95.412 %	0.000 %	0.000 %	98.096 %	0.000 %
Concentration RSD	2.7 %	0.2 %	2.8 %	0.1 %	0.3 %	0.5 %	1.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5100 ppm	0.0482 ppm	0.0426 ppm	0.0499 ppm	0.0513 ppm	0.0474 ppm	0.0476 ppm
Concentration per Run 1	0.5090 ppm	0.0477 ppm	0.0414 ppm	0.0499 ppm	0.0516 ppm	0.0474 ppm	0.0475 ppm
Concentration per Run 2	0.5096 ppm	0.0485 ppm	0.0426 ppm	0.0501 ppm	0.0508 ppm	0.0475 ppm	0.0476 ppm
Concentration per Run 3	0.5114 ppm	0.0485 ppm	0.0438 ppm	0.0497 ppm	0.0516 ppm	0.0474 ppm	0.0477 ppm
Recovery Percentage 1	102.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	95.213 %
Concentration RSD	0.3 %	1.0 %	2.8 %	0.4 %	0.9 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3494 %	99.7027 %	102.9572 %	105.8421 %	101.6142 %	103.3960 %	0.0576 ppm
Concentration per Run 1	98.9623 %	99.6211 %	102.8770 %	108.5891 %	101.8018 %	103.7727 %	0.0558 ppm
Concentration per Run 2	102.6606 %	99.8835 %	103.0210 %	105.9556 %	101.5773 %	103.5485 %	0.0576 ppm
Concentration per Run 3	102.4254 %	99.6033 %	102.9735 %	102.9814 %	101.4635 %	102.8668 %	0.0595 ppm
Recovery Percentage 1							0.000 %
Concentration RSD	2.0 %	0.2 %	0.1 %	2.7 %	0.2 %	0.5 %	3.2 %

LabBook: WG1936225_06192024T6.imexp

Sample: LDR 5PPM SB
Analysis started at: 6/19/2024 7:02:10 AM
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0018 ppm	0.0004 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 1	-0.0002 ppm	0.0014 ppm	0.0009 ppm	0.0028 ppm	0.0002 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 2	-0.0002 ppm	0.0006 ppm	0.0008 ppm	0.0031 ppm	0.0000 ppm	0.0001 ppm	0.0130 ppm
Concentration per Run 3	-0.0001 ppm	-0.0075 ppm	-0.0004 ppm	0.0029 ppm	0.0000 ppm	0.0000 ppm	0.0100 ppm
Concentration RSD	22.4 %	268.9 %	160.5 %	5.6 %	99.1 %	141.9 %	31.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	0.1158 ppm	0.0023 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm	0.1228 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0010 ppm	0.1083 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0015 ppm	0.1162 ppm	0.0027 ppm
Concentration RSD	83.3 %	225.1 %	79.7 %	850.2 %	25.6 %	6.3 %	42.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0304 ppm	0.0000 ppm	-0.0010 ppm	**5.0300 ppm**	0.0010 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0317 ppm	0.0001 ppm	-0.0010 ppm	5.0372 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0277 ppm	0.0001 ppm	-0.0011 ppm	5.0369 ppm	0.0017 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0318 ppm	0.0000 ppm	-0.0010 ppm	5.0158 ppm	0.0006 ppm
Concentration RSD	5.2 %	87.2 %	7.7 %	177.7 %	3.7 %	0.2 %	58.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 1	0.0008 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.0010 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	0.0010 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm
Concentration RSD	14.1 %	24.1 %	65.1 %	266.4 %	207.8 %	37.1 %	9.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.1427 %	102.4157 %	102.6904 %	85.6895 %	101.0002 %	100.4069 %	0.0015 ppm
Concentration per Run 1	104.1055 %	102.6878 %	102.6069 %	83.8948 %	100.6256 %	100.4094 %	0.0016 ppm
Concentration per Run 2	108.4416 %	102.2788 %	102.5789 %	89.5910 %	100.8869 %	100.2929 %	0.0023 ppm
Concentration per Run 3	96.8812 %	102.2806 %	102.8855 %	83.5827 %	101.4881 %	100.5184 %	0.0005 ppm
Concentration RSD	5.7 %	0.2 %	0.2 %	3.9 %	0.4 %	0.1 %	61.2 %

LabBook: WG1936225_06192024T6.imexp

Sample: LDR 5PPM SE
Analysis started at: 6/19/2024 7:08:50 AM
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0072 ppm	0.0007 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0198 ppm
Concentration per Run 1	-0.0002 ppm	0.0127 ppm	0.0007 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0195 ppm
Concentration per Run 2	-0.0001 ppm	0.0134 ppm	0.0009 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0213 ppm
Concentration per Run 3	0.0002 ppm	-0.0046 ppm	0.0005 ppm	0.0028 ppm	0.0001 ppm	0.0001 ppm	0.0186 ppm
Concentration RSD	525.1 %	141.8 %	24.1 %	0.1 %	19.8 %	85.0 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0164 ppm	0.0765 ppm	0.0039 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0173 ppm	0.0797 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0160 ppm	0.0858 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0159 ppm	0.0639 ppm	0.0037 ppm
Concentration RSD	87.1 %	313.0 %	253.7 %	121.3 %	4.7 %	14.8 %	5.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0001 ppm	0.0225 ppm	0.0001 ppm	0.0000 ppm	0.0084 ppm	4.6340 ppm
Concentration per Run 1	0.0008 ppm	0.0002 ppm	0.0199 ppm	0.0001 ppm	0.0001 ppm	0.0094 ppm	4.6478 ppm
Concentration per Run 2	0.0006 ppm	0.0000 ppm	0.0239 ppm	0.0002 ppm	-0.0001 ppm	0.0075 ppm	4.6302 ppm
Concentration per Run 3	0.0004 ppm	0.0002 ppm	0.0238 ppm	0.0001 ppm	0.0000 ppm	0.0083 ppm	4.6239 ppm
Concentration RSD	36.7 %	72.1 %	10.2 %	46.1 %	2,409.5 %	11.1 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 1	0.0003 ppm	-0.0006 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0002 ppm	0.0017 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0015 ppm
Concentration RSD	33.2 %	31.6 %	88.1 %	111.0 %	36.9 %	48.7 %	5.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.4749 %	102.7523 %	102.6824 %	86.6330 %	100.3709 %	100.6114 %	0.0010 ppm
Concentration per Run 1	100.8012 %	102.6192 %	102.6943 %	82.5342 %	100.1749 %	100.2925 %	0.0006 ppm
Concentration per Run 2	104.6328 %	102.6906 %	102.6095 %	87.5118 %	100.3326 %	100.6272 %	0.0014 ppm
Concentration per Run 3	104.9907 %	102.9471 %	102.7433 %	89.8530 %	100.6052 %	100.9145 %	0.0009 ppm
Concentration RSD	2.2 %	0.2 %	0.1 %	4.3 %	0.2 %	0.3 %	38.9 %

LabBook: WG1936225_06192024T6.imexp

Sample: LDR 10PPM SN
Analysis started at: 6/19/2024 7:15:30 AM
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0789 ppm	0.0007 ppm	0.0032 ppm	0.0006 ppm	0.0000 ppm	0.0587 ppm
Concentration per Run 1	0.0002 ppm	0.0838 ppm	0.0005 ppm	0.0032 ppm	0.0006 ppm	0.0000 ppm	0.0608 ppm
Concentration per Run 2	0.0001 ppm	0.0786 ppm	0.0007 ppm	0.0033 ppm	0.0006 ppm	0.0000 ppm	0.0594 ppm
Concentration per Run 3	-0.0001 ppm	0.0745 ppm	0.0008 ppm	0.0030 ppm	0.0005 ppm	0.0000 ppm	0.0560 ppm
Concentration RSD	426.3 %	5.9 %	20.9 %	3.6 %	12.1 %	127.1 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0014 ppm	0.1625 ppm	0.0779 ppm	0.0210 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0014 ppm	0.1683 ppm	0.0660 ppm	0.0206 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm	0.1597 ppm	0.0793 ppm	0.0210 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0014 ppm	0.1594 ppm	0.0885 ppm	0.0214 ppm
Concentration RSD	33.0 %	39.7 %	36.6 %	4.5 %	3.1 %	14.5 %	2.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0039 ppm	0.0001 ppm	0.0267 ppm	0.0003 ppm	0.0040 ppm	0.0194 ppm	0.0015 ppm
Concentration per Run 1	0.0042 ppm	0.0001 ppm	0.0228 ppm	0.0004 ppm	0.0041 ppm	0.0181 ppm	0.0002 ppm
Concentration per Run 2	0.0038 ppm	0.0001 ppm	0.0310 ppm	0.0004 ppm	0.0040 ppm	0.0209 ppm	0.0021 ppm
Concentration per Run 3	0.0037 ppm	0.0000 ppm	0.0265 ppm	0.0003 ppm	0.0040 ppm	0.0191 ppm	0.0022 ppm
Concentration RSD	6.7 %	55.1 %	15.4 %	13.0 %	2.2 %	7.4 %	76.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0297 ppm	9.6272 ppm	0.0001 ppm	0.0034 ppm	0.0004 ppm	0.0003 ppm	0.0027 ppm
Concentration per Run 1	0.0298 ppm	9.6402 ppm	0.0001 ppm	0.0035 ppm	0.0007 ppm	0.0003 ppm	0.0027 ppm
Concentration per Run 2	0.0294 ppm	9.6211 ppm	0.0001 ppm	0.0033 ppm	0.0002 ppm	0.0002 ppm	0.0027 ppm
Concentration per Run 3	0.0299 ppm	9.6202 ppm	0.0002 ppm	0.0035 ppm	0.0002 ppm	0.0003 ppm	0.0027 ppm
Concentration RSD	0.8 %	0.1 %	24.7 %	3.0 %	69.9 %	13.9 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.2252 %	102.6182 %	102.5572 %	88.6962 %	101.7302 %	100.7664 %	0.0010 ppm
Concentration per Run 1	102.4254 %	102.2827 %	102.6710 %	85.5278 %	101.4622 %	100.4895 %	0.0016 ppm
Concentration per Run 2	105.2884 %	102.9977 %	102.5063 %	89.4986 %	101.8446 %	101.0681 %	0.0004 ppm
Concentration per Run 3	104.9617 %	102.5741 %	102.4943 %	91.0622 %	101.8839 %	100.7416 %	0.0009 ppm
Concentration RSD	1.5 %	0.4 %	0.1 %	3.2 %	0.2 %	0.3 %	58.8 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: IEC 20PPM CR
Analysis started at: 6/19/2024 7:22:10 AM
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0012 ppm	-0.0005 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0118 ppm
Concentration per Run 1	-0.0002 ppm	-0.0013 ppm	-0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 2	0.0000 ppm	-0.0016 ppm	-0.0007 ppm	0.0017 ppm	0.0002 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 3	-0.0003 ppm	-0.0005 ppm	-0.0001 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0115 ppm
Recovery Percentage 1	-2.575 %	0.000 %	-9.909 %	4.951 %	1.299 %	0.200 %	0.002 %
Concentration RSD	93.7 %	47.8 %	71.9 %	17.5 %	22.5 %	336.6 %	26.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0033 ppm	-0.0023 ppm	19.5773 ppm	0.0000 ppm	0.0020 ppm	0.0485 ppm	0.0015 ppm
Concentration per Run 1	-0.0033 ppm	-0.0024 ppm	19.6321 ppm	0.0001 ppm	0.0025 ppm	0.0540 ppm	0.0025 ppm
Concentration per Run 2	-0.0033 ppm	-0.0024 ppm	19.5998 ppm	0.0000 ppm	0.0023 ppm	0.0394 ppm	0.0013 ppm
Concentration per Run 3	-0.0033 ppm	-0.0021 ppm	19.5000 ppm	0.0000 ppm	0.0013 ppm	0.0521 ppm	0.0009 ppm
Recovery Percentage 1	-82.716 %	-11.433 %	195,773.169 %	0.188 %	0.001 %	1.941 %	0.000 %
Concentration RSD	0.3 %	6.4 %	0.4 %	175.0 %	31.1 %	16.4 %	55.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0007 ppm	0.0106 ppm	0.0004 ppm	-0.0075 ppm	-0.0042 ppm	0.0000 ppm
Concentration per Run 1	0.0005 ppm	0.0007 ppm	0.0103 ppm	0.0005 ppm	-0.0071 ppm	-0.0040 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	0.0008 ppm	0.0114 ppm	0.0002 ppm	-0.0080 ppm	-0.0041 ppm	-0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0006 ppm	0.0102 ppm	0.0004 ppm	-0.0074 ppm	-0.0044 ppm	0.0010 ppm
Recovery Percentage 1	3.933 %	1.399 %	0.531 %	1.476 %	-75.084 %	-8.356 %	0.379 %
Concentration RSD	37.0 %	18.2 %	6.1 %	45.8 %	6.4 %	5.0 %	3,245.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0016 ppm	0.0000 ppm	-0.0010 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	0.0020 ppm	-0.0001 ppm	-0.0012 ppm	0.0003 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 2	0.0010 ppm	0.0014 ppm	0.0001 ppm	-0.0009 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	0.0013 ppm	0.0000 ppm	-0.0010 ppm	0.0004 ppm	0.0009 ppm	0.0002 ppm
Recovery Percentage 1	0.171 %	3.111 %	0.005 %	-10.361 %	1.832 %	8.082 %	-0.054 %
Concentration RSD	18.1 %	24.0 %	18,878.5 %	16.9 %	27.6 %	14.9 %	7,435.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.2306 %	103.2482 %	101.5136 %	85.6118 %	99.6847 %	99.8537 %	-0.0021 ppm
Concentration per Run 1	102.2816 %	103.0268 %	101.4990 %	81.9678 %	99.3963 %	99.4093 %	-0.0028 ppm
Concentration per Run 2	104.9882 %	103.2509 %	101.6510 %	86.3252 %	99.8276 %	99.9082 %	-0.0017 ppm
Concentration per Run 3	105.4220 %	103.4670 %	101.3907 %	88.5425 %	99.8300 %	100.2435 %	-0.0020 ppm
Recovery Percentage 1							-21.422 %
Concentration RSD	1.6 %	0.2 %	0.1 %	3.9 %	0.3 %	0.4 %	27.5 %

LabBook: WG1936225_06192024T6.imexp

Sample: LDR 20PPM AS
Analysis started at: 6/19/2024 7:29:00 AM
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0527 ppm	18.4872 ppm	0.0017 ppm	0.0004 ppm	0.0001 ppm	0.0428 ppm
Concentration per Run 1	-0.0001 ppm	0.0534 ppm	18.4879 ppm	0.0019 ppm	0.0004 ppm	0.0000 ppm	0.0468 ppm
Concentration per Run 2	-0.0002 ppm	0.0522 ppm	18.4739 ppm	0.0015 ppm	0.0005 ppm	0.0000 ppm	0.0442 ppm
Concentration per Run 3	0.0000 ppm	0.0525 ppm	18.4998 ppm	0.0017 ppm	0.0005 ppm	0.0001 ppm	0.0374 ppm
Concentration RSD	127.3 %	1.2 %	0.1 %	9.8 %	12.4 %	33.2 %	11.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0035 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.1054 ppm	0.0484 ppm	0.0148 ppm
Concentration per Run 1	-0.0035 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.1114 ppm	0.0573 ppm	0.0142 ppm
Concentration per Run 2	-0.0035 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.1031 ppm	0.0350 ppm	0.0132 ppm
Concentration per Run 3	-0.0035 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	0.1017 ppm	0.0529 ppm	0.0171 ppm
Concentration RSD	0.3 %	114.1 %	110.2 %	8.3 %	4.9 %	24.4 %	13.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0027 ppm	0.0000 ppm	0.0174 ppm	0.0001 ppm	0.0024 ppm	0.0013 ppm	0.0013 ppm
Concentration per Run 1	0.0026 ppm	0.0000 ppm	0.0181 ppm	0.0000 ppm	0.0024 ppm	0.0011 ppm	0.0019 ppm
Concentration per Run 2	0.0028 ppm	0.0000 ppm	0.0152 ppm	0.0004 ppm	0.0022 ppm	0.0020 ppm	0.0013 ppm
Concentration per Run 3	0.0026 ppm	0.0000 ppm	0.0190 ppm	0.0001 ppm	0.0026 ppm	0.0007 ppm	0.0008 ppm
Concentration RSD	4.3 %	244.0 %	11.5 %	140.7 %	7.0 %	51.5 %	38.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0006 ppm	0.0077 ppm	0.0001 ppm	0.0013 ppm	-0.0007 ppm	0.0002 ppm	0.0018 ppm
Concentration per Run 1	0.0009 ppm	0.0079 ppm	0.0000 ppm	0.0012 ppm	-0.0004 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 2	0.0007 ppm	0.0077 ppm	0.0000 ppm	0.0013 ppm	-0.0010 ppm	0.0003 ppm	0.0019 ppm
Concentration per Run 3	0.0001 ppm	0.0074 ppm	0.0001 ppm	0.0013 ppm	-0.0008 ppm	0.0002 ppm	0.0019 ppm
Concentration RSD	77.3 %	3.1 %	48.0 %	3.6 %	45.8 %	66.2 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.8191 %	104.3006 %	102.4470 %	87.1906 %	100.5173 %	101.4005 %	0.0002 ppm
Concentration per Run 1	100.7040 %	104.3345 %	102.4834 %	82.9825 %	100.4134 %	101.2713 %	0.0002 ppm
Concentration per Run 2	105.1325 %	104.3538 %	102.5355 %	88.0801 %	100.5155 %	101.5190 %	0.0010 ppm
Concentration per Run 3	105.6209 %	104.2134 %	102.3221 %	90.5092 %	100.6228 %	101.4113 %	-0.0004 ppm
Concentration RSD	2.6 %	0.1 %	0.1 %	4.4 %	0.1 %	0.1 %	303.3 %

ICP DataTrace 6

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LabBook: WG1936225_06192024T6.imexp

Sample: LDR 20PPM Si
Analysis started at: 6/19/2024 7:35:41 AM
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0009 ppm	-0.0004 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 1	0.0000 ppm	0.0039 ppm	0.0001 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0127 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	-0.0006 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 3	-0.0001 ppm	-0.0020 ppm	-0.0008 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0135 ppm
Concentration RSD	65.4 %	340.0 %	110.7 %	3.4 %	20.5 %	64.0 %	15.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0404 ppm	0.0024 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0360 ppm	0.0034 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0020 ppm	0.0489 ppm	0.0014 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0003 ppm	-0.0003 ppm	0.0004 ppm	0.0363 ppm	0.0024 ppm
Concentration RSD	18.6 %	38.0 %	36.0 %	43.6 %	61.4 %	18.2 %	42.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0000 ppm	0.0069 ppm	0.0003 ppm	-0.0046 ppm	0.0024 ppm	0.0004 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	0.0067 ppm	0.0002 ppm	-0.0048 ppm	0.0026 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0067 ppm	0.0004 ppm	-0.0043 ppm	0.0023 ppm	0.0017 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0073 ppm	0.0003 ppm	-0.0047 ppm	0.0023 ppm	-0.0007 ppm
Concentration RSD	32.7 %	9,871.1 %	4.7 %	31.7 %	6.4 %	8.2 %	339.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	18.1357 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 1	18.1367 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 2	18.1312 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 3	18.1391 ppm	0.0007 ppm	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0014 ppm
Concentration RSD	0.0 %	48.2 %	81.4 %	131.0 %	19.3 %	59.4 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.8688 %	104.7745 %	102.6498 %	93.9320 %	101.9607 %	101.8112 %	0.0005 ppm
Concentration per Run 1	102.4775 %	104.9920 %	102.6842 %	93.1531 %	101.9685 %	101.9961 %	-0.0006 ppm
Concentration per Run 2	106.2669 %	104.8996 %	102.6677 %	94.4965 %	101.9151 %	101.9101 %	0.0010 ppm
Concentration per Run 3	105.8621 %	104.4318 %	102.5975 %	94.1463 %	101.9985 %	101.5273 %	0.0012 ppm
Concentration RSD	2.0 %	0.3 %	0.0 %	0.7 %	0.0 %	0.2 %	179.1 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: IEC 200PPM FE
Analysis started at: 6/19/2024 7:42:22 AM
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0129 ppm
Concentration per Run 1	0.0002 ppm	0.0016 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0143 ppm
Recovery Percentage 1	3.503 %	0.000 %	0.004 %	4.304 %	2.305 %	0.443 %	0.003 %
Concentration RSD	48.7 %	136.1 %	132,494.8 %	19.3 %	5.8 %	48.6 %	10.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0009 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm	193.0131 ppm	0.0377 ppm	0.0073 ppm
Concentration per Run 1	-0.0010 ppm	-0.0001 ppm	-0.0008 ppm	0.0001 ppm	196.9811 ppm	0.0262 ppm	0.0063 ppm
Concentration per Run 2	-0.0009 ppm	-0.0003 ppm	-0.0008 ppm	-0.0001 ppm	191.7278 ppm	0.0396 ppm	0.0080 ppm
Concentration per Run 3	-0.0008 ppm	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm	190.3303 ppm	0.0474 ppm	0.0078 ppm
Recovery Percentage 1	-22.395 %	-0.893 %	-8.658 %	-0.379 %	96.507 %	1.509 %	0.001 %
Concentration RSD	13.6 %	54.1 %	6.7 %	251.2 %	1.8 %	28.4 %	13.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	-0.0013 ppm	0.0088 ppm	-0.0027 ppm	0.0009 ppm	-0.0008 ppm	0.0029 ppm
Concentration per Run 1	0.0005 ppm	-0.0015 ppm	0.0117 ppm	-0.0025 ppm	0.0008 ppm	-0.0013 ppm	0.0032 ppm
Concentration per Run 2	0.0004 ppm	-0.0013 ppm	0.0090 ppm	-0.0030 ppm	0.0012 ppm	-0.0006 ppm	0.0037 ppm
Concentration per Run 3	0.0005 ppm	-0.0012 ppm	0.0057 ppm	-0.0027 ppm	0.0006 ppm	-0.0004 ppm	0.0018 ppm
Recovery Percentage 1	4.363 %	-2.667 %	0.439 %	-10.888 %	8.772 %	-1.538 %	29.101 %
Concentration RSD	15.3 %	13.8 %	34.5 %	10.3 %	33.6 %	62.1 %	34.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0013 ppm	0.0002 ppm	-0.0002 ppm	-0.0006 ppm	-0.0004 ppm	0.0009 ppm
Concentration per Run 1	0.0013 ppm	0.0014 ppm	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 2	0.0008 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	-0.0005 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0006 ppm	0.0013 ppm	0.0002 ppm	-0.0004 ppm	-0.0010 ppm	-0.0004 ppm	0.0009 ppm
Recovery Percentage 1	0.180 %	2.608 %	1.598 %	-2.367 %	-3.235 %	-4.322 %	17.159 %
Concentration RSD	41.8 %	7.0 %	21.0 %	102.9 %	54.2 %	45.3 %	10.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.0721 %	99.5055 %	97.2058 %	92.3248 %	91.8064 %	97.8087 %	-0.0001 ppm
Concentration per Run 1	102.2175 %	99.6406 %	97.2940 %	91.5401 %	91.6728 %	97.8683 %	-0.0006 ppm
Concentration per Run 2	103.2684 %	99.4537 %	97.1316 %	92.7510 %	91.8382 %	97.8344 %	0.0003 ppm
Concentration per Run 3	103.7305 %	99.4223 %	97.1919 %	92.6833 %	91.9082 %	97.7235 %	0.0000 ppm
Recovery Percentage 1							-0.890 %
Concentration RSD	0.8 %	0.1 %	0.1 %	0.7 %	0.1 %	0.1 %	492.2 %

LabBook: WG1936225_06192024T6.imexp

Sample: LDR 500PPM NA
Analysis started at: 6/19/2024 7:56:15 AM
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0022 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0191 ppm
Concentration per Run 1	-0.0002 ppm	0.0030 ppm	-0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0226 ppm
Concentration per Run 2	-0.0004 ppm	0.0042 ppm	0.0004 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0155 ppm
Concentration per Run 3	-0.0005 ppm	-0.0005 ppm	0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0193 ppm
Concentration RSD	39.9 %	108.5 %	152.5 %	12.1 %	11.1 %	305.4 %	18.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0026 ppm	0.2915 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0034 ppm	0.2367 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0023 ppm	0.2851 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0021 ppm	0.3526 ppm	0.0024 ppm
Concentration RSD	23.0 %	595.4 %	20.8 %	12.9 %	26.8 %	20.0 %	59.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0000 ppm	472.5550 ppm	0.0004 ppm	-0.0004 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	498.1544 ppm	0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	465.3920 ppm	0.0005 ppm	-0.0006 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	454.1186 ppm	0.0004 ppm	-0.0001 ppm	0.0008 ppm	-0.0002 ppm
Concentration RSD	49.5 %	314.4 %	4.8 %	40.1 %	74.0 %	289.6 %	86.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0023 ppm	-0.0007 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.0016 ppm
Concentration per Run 1	0.0023 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 2	0.0020 ppm	-0.0007 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0002 ppm	0.0016 ppm
Concentration per Run 3	0.0026 ppm	-0.0005 ppm	0.0000 ppm	-0.0004 ppm	-0.0007 ppm	0.0003 ppm	0.0015 ppm
Concentration RSD	12.3 %	27.2 %	242.3 %	53.4 %	173.5 %	58.1 %	7.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.8032 %	88.4641 %	90.0806 %	84.0870 %	80.5918 %	86.4849 %	0.0031 ppm
Concentration per Run 1	98.9170 %	88.6290 %	90.1359 %	80.5939 %	80.5490 %	86.4838 %	0.0018 ppm
Concentration per Run 2	100.0544 %	88.3018 %	90.0831 %	84.9529 %	80.4614 %	86.4641 %	0.0031 ppm
Concentration per Run 3	100.4380 %	88.4614 %	90.0226 %	86.7144 %	80.7650 %	86.5067 %	0.0044 ppm
Concentration RSD	0.8 %	0.2 %	0.1 %	3.7 %	0.2 %	0.0 %	41.7 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: IEC 500PPM AL
Analysis started at: 6/19/2024 8:10:12 AM
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	**512.7333 ppm**	0.0000 ppm	-0.0025 ppm	0.0001 ppm	0.0000 ppm	-0.0908 ppm
Concentration per Run 1	0.0000 ppm	533.4023 ppm	0.0000 ppm	-0.0026 ppm	0.0001 ppm	0.0000 ppm	-0.0935 ppm
Concentration per Run 2	-0.0003 ppm	504.9488 ppm	-0.0014 ppm	-0.0020 ppm	0.0001 ppm	0.0000 ppm	-0.0916 ppm
Concentration per Run 3	-0.0001 ppm	499.8487 ppm	0.0014 ppm	-0.0030 ppm	0.0001 ppm	0.0000 ppm	-0.0874 ppm
Recovery Percentage 1	-2.410 %	102.547 %	0.068 %	-8.420 %	1.089 %	0.300 %	-0.018 %
Concentration RSD	97.0 %	**3.5 %**	40,139.1 %	21.1 %	34.3 %	85.9 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0020 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0029 ppm	0.1379 ppm	-0.0806 ppm
Concentration per Run 1	-0.0020 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0026 ppm	0.1381 ppm	-0.0814 ppm
Concentration per Run 2	-0.0020 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0030 ppm	0.1458 ppm	-0.0793 ppm
Concentration per Run 3	-0.0020 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0032 ppm	0.1299 ppm	-0.0812 ppm
Recovery Percentage 1	-50.206 %	-0.415 %	2.090 %	4.077 %	0.001 %	5.517 %	-0.016 %
Concentration RSD	1.7 %	112.0 %	110.1 %	16.0 %	10.2 %	5.7 %	1.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	-0.0003 ppm	0.1228 ppm	0.0016 ppm	-0.0144 ppm	0.0091 ppm	-0.0013 ppm
Concentration per Run 1	0.0012 ppm	-0.0001 ppm	0.1280 ppm	0.0017 ppm	-0.0140 ppm	0.0063 ppm	-0.0028 ppm
Concentration per Run 2	0.0011 ppm	-0.0005 ppm	0.1197 ppm	0.0016 ppm	-0.0150 ppm	0.0122 ppm	-0.0024 ppm
Concentration per Run 3	0.0012 ppm	-0.0004 ppm	0.1208 ppm	0.0016 ppm	-0.0143 ppm	0.0089 ppm	0.0013 ppm
Recovery Percentage 1	11.478 %	-0.696 %	6.141 %	6.504 %	-144.375 %	18.244 %	-13.202 %
Concentration RSD	6.7 %	69.1 %	3.7 %	3.3 %	3.7 %	32.3 %	171.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0004 ppm	-0.0008 ppm	0.0000 ppm	-0.0001 ppm	-0.0039 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	-0.0009 ppm	0.0000 ppm	-0.0002 ppm	-0.0044 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 2	0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm	-0.0001 ppm	0.0012 ppm
Concentration per Run 3	0.0002 ppm	-0.0012 ppm	-0.0001 ppm	-0.0001 ppm	-0.0057 ppm	0.0002 ppm	0.0014 ppm
Recovery Percentage 1	0.075 %	-1.532 %	-0.212 %	-0.925 %	-19.730 %	-0.110 %	27.831 %
Concentration RSD	86.8 %	66.9 %	200.2 %	138.2 %	51.4 %	1,548.0 %	12.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.9645 %	94.2221 %	98.6840 %	90.1966 %	85.9747 %	92.4687 %	0.0030 ppm
Concentration per Run 1	103.7783 %	94.3004 %	98.8008 %	87.4181 %	86.0454 %	92.4795 %	0.0028 ppm
Concentration per Run 2	105.7321 %	94.3848 %	98.6159 %	91.0378 %	85.8066 %	92.5346 %	0.0024 ppm
Concentration per Run 3	105.3829 %	93.9810 %	98.6352 %	92.1338 %	86.0720 %	92.3918 %	0.0037 ppm
Recovery Percentage 1							29.808 %
Concentration RSD	1.0 %	0.2 %	0.1 %	2.7 %	0.2 %	0.1 %	22.4 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: XLDR 500PPM FE
Analysis started at: 6/19/2024 8:24:00 AM
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0038 ppm	0.0018 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 1	0.0003 ppm	0.0048 ppm	0.0025 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0107 ppm
Concentration per Run 2	0.0003 ppm	0.0044 ppm	0.0022 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0061 ppm
Concentration per Run 3	0.0005 ppm	0.0024 ppm	0.0007 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0065 ppm
Concentration RSD	30.9 %	32.6 %	51.4 %	4.4 %	3.6 %	102.7 %	32.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0018 ppm	-0.0003 ppm	-0.0025 ppm	0.0000 ppm	**434.2488 ppm**	0.0505 ppm	0.0172 ppm
Concentration per Run 1	-0.0021 ppm	-0.0006 ppm	-0.0026 ppm	0.0002 ppm	442.4130 ppm	0.0460 ppm	0.0170 ppm
Concentration per Run 2	-0.0017 ppm	-0.0004 ppm	-0.0026 ppm	-0.0001 ppm	432.9253 ppm	0.0336 ppm	0.0160 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	-0.0024 ppm	0.0000 ppm	427.4081 ppm	0.0720 ppm	0.0186 ppm
Concentration RSD	13.7 %	101.2 %	6.1 %	2,674.6 %	1.7 %	38.8 %	7.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	-0.0029 ppm	0.0440 ppm	0.0091 ppm	0.0048 ppm	-0.0010 ppm	0.0069 ppm
Concentration per Run 1	0.0011 ppm	-0.0030 ppm	0.0436 ppm	0.0094 ppm	0.0043 ppm	-0.0013 ppm	0.0085 ppm
Concentration per Run 2	0.0007 ppm	-0.0027 ppm	0.0417 ppm	0.0090 ppm	0.0051 ppm	-0.0017 ppm	0.0063 ppm
Concentration per Run 3	0.0005 ppm	-0.0031 ppm	0.0468 ppm	0.0091 ppm	0.0050 ppm	0.0001 ppm	0.0060 ppm
Concentration RSD	39.9 %	6.2 %	5.8 %	2.1 %	8.8 %	100.8 %	19.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0012 ppm	0.0030 ppm	0.0004 ppm	-0.0004 ppm	-0.0020 ppm	-0.0010 ppm	-0.0005 ppm
Concentration per Run 1	0.0014 ppm	0.0030 ppm	0.0003 ppm	-0.0005 ppm	-0.0025 ppm	-0.0011 ppm	-0.0005 ppm
Concentration per Run 2	0.0017 ppm	0.0030 ppm	0.0004 ppm	-0.0004 ppm	-0.0011 ppm	-0.0010 ppm	-0.0006 ppm
Concentration per Run 3	0.0005 ppm	0.0031 ppm	0.0004 ppm	-0.0002 ppm	-0.0023 ppm	-0.0010 ppm	-0.0002 ppm
Concentration RSD	52.2 %	2.2 %	17.1 %	30.9 %	37.2 %	5.4 %	42.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8876 %	97.9051 %	93.0183 %	91.3472 %	85.6466 %	95.2444 %	-0.0005 ppm
Concentration per Run 1	100.0902 %	97.8313 %	93.0362 %	90.9667 %	85.7159 %	95.3408 %	-0.0011 ppm
Concentration per Run 2	101.0987 %	97.9509 %	93.2133 %	91.2364 %	85.8320 %	95.2723 %	0.0004 ppm
Concentration per Run 3	101.4740 %	97.9330 %	92.8054 %	91.8384 %	85.3920 %	95.1200 %	-0.0009 ppm
Concentration RSD	0.7 %	0.1 %	0.2 %	0.5 %	0.3 %	0.1 %	161.9 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: LDR 1000PPM CA
Analysis started at: 6/19/2024 8:37:49 AM
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	0.0260 ppm	-0.0024 ppm	0.0017 ppm	0.0010 ppm	-0.0003 ppm	969.7047 ppm
Concentration per Run 1	-0.0005 ppm	0.0233 ppm	-0.0026 ppm	0.0017 ppm	0.0011 ppm	-0.0004 ppm	1,030.0859 ppm
Concentration per Run 2	-0.0009 ppm	0.0296 ppm	-0.0017 ppm	0.0017 ppm	0.0011 ppm	-0.0002 ppm	941.8022 ppm
Concentration per Run 3	-0.0006 ppm	0.0250 ppm	-0.0030 ppm	0.0017 ppm	0.0010 ppm	-0.0002 ppm	937.2259 ppm
Concentration RSD	26.7 %	12.6 %	27.3 %	2.6 %	6.3 %	32.6 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0042 ppm	0.0006 ppm	0.0007 ppm	0.0008 ppm	0.0010 ppm	0.0902 ppm	0.0133 ppm
Concentration per Run 1	0.0042 ppm	0.0004 ppm	0.0003 ppm	0.0008 ppm	0.0011 ppm	0.0814 ppm	0.0134 ppm
Concentration per Run 2	0.0043 ppm	0.0007 ppm	0.0007 ppm	0.0008 ppm	0.0006 ppm	0.0764 ppm	0.0126 ppm
Concentration per Run 3	0.0042 ppm	0.0006 ppm	0.0009 ppm	0.0008 ppm	0.0015 ppm	0.1127 ppm	0.0138 ppm
Concentration RSD	0.7 %	22.4 %	46.4 %	1.7 %	44.1 %	21.8 %	4.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0005 ppm	0.0560 ppm	0.0002 ppm	0.0032 ppm	0.0027 ppm	-0.0074 ppm
Concentration per Run 1	0.0005 ppm	0.0004 ppm	0.0556 ppm	0.0003 ppm	0.0033 ppm	0.0024 ppm	-0.0080 ppm
Concentration per Run 2	0.0005 ppm	0.0004 ppm	0.0505 ppm	0.0003 ppm	0.0033 ppm	0.0024 ppm	-0.0075 ppm
Concentration per Run 3	0.0006 ppm	0.0006 ppm	0.0618 ppm	-0.0001 ppm	0.0032 ppm	0.0033 ppm	-0.0066 ppm
Concentration RSD	9.8 %	17.3 %	10.2 %	123.9 %	2.5 %	20.3 %	9.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0067 ppm	-0.0005 ppm	0.0074 ppm	0.0039 ppm	-0.0006 ppm	0.0009 ppm	0.0023 ppm
Concentration per Run 1	0.0071 ppm	-0.0002 ppm	0.0078 ppm	0.0041 ppm	-0.0013 ppm	0.0008 ppm	0.0023 ppm
Concentration per Run 2	0.0068 ppm	-0.0006 ppm	0.0073 ppm	0.0041 ppm	0.0002 ppm	0.0009 ppm	0.0022 ppm
Concentration per Run 3	0.0062 ppm	-0.0006 ppm	0.0073 ppm	0.0036 ppm	-0.0008 ppm	0.0008 ppm	0.0023 ppm
Concentration RSD	7.0 %	43.8 %	3.9 %	6.6 %	125.2 %	9.0 %	2.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.9128 %	87.1962 %	83.5744 %	79.3351 %	88.1095 %	81.9645 %	-0.1520 ppm
Concentration per Run 1	93.7756 %	87.1888 %	83.8102 %	75.7183 %	88.3839 %	81.8734 %	-0.1629 ppm
Concentration per Run 2	94.9846 %	87.2747 %	83.5172 %	81.2941 %	87.9506 %	81.9846 %	-0.1476 ppm
Concentration per Run 3	95.9783 %	87.1250 %	83.3958 %	80.9928 %	87.9940 %	82.0354 %	-0.1455 ppm
Concentration RSD	1.2 %	0.1 %	0.3 %	4.0 %	0.3 %	0.1 %	6.2 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: CCV
Analysis started at: 6/19/2024 8:51:43 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4785 ppm	0.5004 ppm	0.4953 ppm	0.4746 ppm	0.5115 ppm	0.5049 ppm	0.4847 ppm
Concentration per Run 1	0.4783 ppm	0.5152 ppm	0.4954 ppm	0.4752 ppm	0.5243 ppm	0.5194 ppm	0.5015 ppm
Concentration per Run 2	0.4782 ppm	0.4952 ppm	0.4957 ppm	0.4745 ppm	0.5070 ppm	0.4991 ppm	0.4797 ppm
Concentration per Run 3	0.4789 ppm	0.4908 ppm	0.4949 ppm	0.4742 ppm	0.5033 ppm	0.4963 ppm	0.4729 ppm
Recovery Percentage 1	95.695 %	100.081 %	99.062 %	94.926 %	102.308 %	100.988 %	96.943 %
Concentration RSD	0.1 %	2.6 %	0.1 %	0.1 %	2.2 %	2.5 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4569 ppm	0.4774 ppm	0.4963 ppm	0.4889 ppm	0.5016 ppm	5.1339 ppm	0.5016 ppm
Concentration per Run 1	0.4570 ppm	0.4777 ppm	0.4964 ppm	0.4881 ppm	0.5146 ppm	5.2572 ppm	0.5017 ppm
Concentration per Run 2	0.4564 ppm	0.4765 ppm	0.4954 ppm	0.4899 ppm	0.4962 ppm	5.0853 ppm	0.5014 ppm
Concentration per Run 3	0.4574 ppm	0.4778 ppm	0.4972 ppm	0.4885 ppm	0.4941 ppm	5.0593 ppm	0.5016 ppm
Recovery Percentage 1	91.386 %	95.472 %	99.261 %	97.772 %	100.327 %	102.678 %	100.316 %
Concentration RSD	0.1 %	0.2 %	0.2 %	0.2 %	2.2 %	2.1 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4778 ppm	0.4573 ppm	9.9728 ppm	0.4738 ppm	0.4762 ppm	0.4689 ppm	0.4605 ppm
Concentration per Run 1	0.4907 ppm	0.4562 ppm	10.2212 ppm	0.4745 ppm	0.4763 ppm	0.4707 ppm	0.4599 ppm
Concentration per Run 2	0.4738 ppm	0.4578 ppm	9.8747 ppm	0.4731 ppm	0.4761 ppm	0.4689 ppm	0.4619 ppm
Concentration per Run 3	0.4688 ppm	0.4581 ppm	9.8225 ppm	0.4738 ppm	0.4763 ppm	0.4673 ppm	0.4596 ppm
Recovery Percentage 1	95.556 %	91.469 %	99.728 %	94.762 %	95.244 %	93.790 %	92.094 %
Concentration RSD	2.4 %	0.2 %	2.2 %	0.1 %	0.0 %	0.4 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0100 ppm	0.4876 ppm	0.4939 ppm	0.4843 ppm	0.4913 ppm	0.4721 ppm	0.4664 ppm
Concentration per Run 1	5.0144 ppm	0.4873 ppm	0.5070 ppm	0.4839 ppm	0.4926 ppm	0.4717 ppm	0.4669 ppm
Concentration per Run 2	5.0057 ppm	0.4867 ppm	0.4889 ppm	0.4842 ppm	0.4899 ppm	0.4721 ppm	0.4656 ppm
Concentration per Run 3	5.0098 ppm	0.4888 ppm	0.4859 ppm	0.4849 ppm	0.4915 ppm	0.4725 ppm	0.4668 ppm
Recovery Percentage 1	95.428 %	97.514 %	98.785 %	96.863 %	98.266 %	94.425 %	93.286 %
Concentration RSD	0.1 %	0.2 %	2.3 %	0.1 %	0.3 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8834 %	102.2704 %	97.1277 %	89.6804 %	96.7147 %	97.3338 %	0.4883 ppm
Concentration per Run 1	97.3541 %	102.2968 %	97.3315 %	87.2024 %	96.7174 %	97.4279 %	0.4996 ppm
Concentration per Run 2	102.4705 %	102.2972 %	97.0067 %	90.5894 %	96.7620 %	97.3485 %	0.4852 ppm
Concentration per Run 3	102.8257 %	102.2171 %	97.0450 %	91.2496 %	96.6647 %	97.2250 %	0.4800 ppm
Recovery Percentage 1							97.654 %
Concentration RSD	3.0 %	0.0 %	0.2 %	2.4 %	0.1 %	0.1 %	2.1 %

LabBook: WG1936225_06192024T6.imexp

Sample: CCB
Analysis started at: 6/19/2024 8:58:01 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0025 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 1	-0.0002 ppm	-0.0073 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 3	0.0004 ppm	-0.0017 ppm	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm
Recovery Percentage 1	0.791 %	0.000 %	4.420 %	2.448 %	1.081 %	0.477 %	0.001 %
Concentration RSD	531.7 %	183.1 %	67.3 %	14.5 %	57.0 %	30.6 %	31.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0450 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0365 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0012 ppm	0.0672 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0311 ppm	0.0016 ppm
Recovery Percentage 1	0.592 %	0.010 %	-1.016 %	-2.489 %	0.000 %	1.798 %	0.000 %
Concentration RSD	62.7 %	2,209.6 %	65.7 %	49.9 %	100.5 %	43.4 %	220.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0004 ppm	0.0088 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0088 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm	-0.0008 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0109 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0068 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	0.0024 ppm
Recovery Percentage 1	1.707 %	0.778 %	0.442 %	0.083 %	1.178 %	2.035 %	5.250 %
Concentration RSD	42.3 %	21.6 %	23.2 %	248.8 %	126.7 %	67.0 %	324.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0009 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm
Recovery Percentage 1	-0.174 %	-0.509 %	0.066 %	-1.680 %	-1.197 %	2.242 %	3.123 %
Concentration RSD	33.3 %	89.7 %	556.7 %	117.1 %	81.2 %	24.4 %	47.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8035 %	104.6120 %	96.8124 %	82.5417 %	99.4503 %	96.0828 %	0.0000 ppm
Concentration per Run 1	98.8471 %	104.4200 %	96.8817 %	79.1233 %	99.5139 %	95.8353 %	0.0002 ppm
Concentration per Run 2	101.7141 %	104.6935 %	96.7516 %	83.4913 %	99.3161 %	96.1358 %	0.0000 ppm
Concentration per Run 3	101.8493 %	104.7227 %	96.8039 %	85.0104 %	99.5209 %	96.2773 %	-0.0002 ppm
Recovery Percentage 1							-0.180 %
Concentration RSD	1.7 %	0.2 %	0.1 %	3.7 %	0.1 %	0.2 %	1,104.2 %

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935889-1 WG1935889
Analysis started at: 6/19/2024 9:09:33 AM
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0017 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 1	-0.0001 ppm	-0.0019 ppm	0.0006 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	-0.0003 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0061 ppm
Concentration per Run 3	0.0000 ppm	-0.0036 ppm	0.0014 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0057 ppm
Recovery Percentage 1	1.004 %	0.000 %	11.296 %	2.172 %	0.343 %	0.261 %	0.001 %
Concentration RSD	340.3 %	107.8 %	146.0 %	32.6 %	99.6 %	169.4 %	27.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0013 ppm	0.0126 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	-0.0012 ppm	0.0144 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0015 ppm	0.0151 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0012 ppm	0.0083 ppm	0.0012 ppm
Recovery Percentage 1	-0.101 %	-0.131 %	-1.953 %	-1.161 %	-0.001 %	0.504 %	0.000 %
Concentration RSD	251.1 %	45.0 %	87.5 %	55.7 %	13.2 %	29.9 %	29.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 1	-0.0002 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0008 ppm	-0.0008 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	-0.0015 ppm
Recovery Percentage 1	1.304 %	-0.076 %	-0.018 %	0.277 %	1.261 %	1.033 %	-6.618 %
Concentration RSD	215.3 %	239.1 %	134.7 %	124.3 %	209.6 %	47.3 %	131.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm	0.0013 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	-0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0009 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0005 ppm
Recovery Percentage 1	0.027 %	-1.183 %	-0.505 %	-1.743 %	3.005 %	1.343 %	8.457 %
Concentration RSD	36.1 %	45.1 %	35.8 %	131.2 %	105.9 %	86.3 %	25.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5765 %	104.5053 %	97.2748 %	92.9173 %	102.2444 %	97.9697 %	-0.0003 ppm
Concentration per Run 1	99.8054 %	104.2912 %	97.3709 %	92.4382 %	102.2691 %	98.0639 %	-0.0003 ppm
Concentration per Run 2	102.6499 %	104.6509 %	97.4373 %	93.6236 %	102.2570 %	98.0402 %	0.0000 ppm
Concentration per Run 3	102.2743 %	104.5739 %	97.0162 %	92.6902 %	102.2069 %	97.8050 %	-0.0006 ppm
Recovery Percentage 1							-2.727 %
Concentration RSD	1.5 %	0.2 %	0.2 %	0.7 %	0.0 %	0.1 %	113.2 %

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935889-2 WG1935889
Analysis started at: 6/19/2024 9:16:13 AM
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0473 ppm	2.1334 ppm	0.1227 ppm	0.9256 ppm	2.1724 ppm	0.0528 ppm	10.1168 ppm
Concentration per Run 1	0.0466 ppm	2.2600 ppm	0.1231 ppm	0.9266 ppm	2.2963 ppm	0.0559 ppm	10.7389 ppm
Concentration per Run 2	0.0476 ppm	2.1020 ppm	0.1211 ppm	0.9256 ppm	2.1453 ppm	0.0523 ppm	9.9882 ppm
Concentration per Run 3	0.0476 ppm	2.0380 ppm	0.1240 ppm	0.9245 ppm	2.0757 ppm	0.0504 ppm	9.6232 ppm
Concentration RSD	1.1 %	5.4 %	1.2 %	0.1 %	5.2 %	5.2 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0483 ppm	0.4582 ppm	0.1955 ppm	0.2483 ppm	1.0464 ppm	10.7098 ppm	9.7792 ppm
Concentration per Run 1	0.0483 ppm	0.4587 ppm	0.1951 ppm	0.2482 ppm	1.1080 ppm	11.3335 ppm	9.7710 ppm
Concentration per Run 2	0.0484 ppm	0.4588 ppm	0.1959 ppm	0.2487 ppm	1.0311 ppm	10.5625 ppm	9.8031 ppm
Concentration per Run 3	0.0482 ppm	0.4571 ppm	0.1953 ppm	0.2481 ppm	1.0002 ppm	10.2334 ppm	9.7636 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %	5.3 %	5.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5018 ppm	0.8748 ppm	10.7604 ppm	0.4541 ppm	0.4994 ppm	0.4505 ppm	0.1085 ppm
Concentration per Run 1	0.5319 ppm	0.8694 ppm	11.3804 ppm	0.4560 ppm	0.5001 ppm	0.4507 ppm	0.1086 ppm
Concentration per Run 2	0.4957 ppm	0.8760 ppm	10.6249 ppm	0.4533 ppm	0.4999 ppm	0.4504 ppm	0.1083 ppm
Concentration per Run 3	0.4778 ppm	0.8791 ppm	10.2759 ppm	0.4529 ppm	0.4982 ppm	0.4505 ppm	0.1086 ppm
Concentration RSD	5.5 %	0.6 %	5.2 %	0.4 %	0.2 %	0.0 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0209 ppm	0.9289 ppm	1.0291 ppm	0.9454 ppm	**0.1140 ppm**	0.4616 ppm	0.4550 ppm
Concentration per Run 1	1.0203 ppm	0.9285 ppm	1.0880 ppm	0.9446 ppm	0.1136 ppm	0.4607 ppm	0.4551 ppm
Concentration per Run 2	1.0219 ppm	0.9300 ppm	1.0164 ppm	0.9482 ppm	0.1147 ppm	0.4636 ppm	0.4557 ppm
Concentration per Run 3	1.0206 ppm	0.9283 ppm	0.9830 ppm	0.9435 ppm	0.1137 ppm	0.4604 ppm	0.4542 ppm
Concentration RSD	0.1 %	0.1 %	5.2 %	0.3 %	0.5 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4158 %	102.2020 %	93.5088 %	81.9023 %	93.7642 %	94.0754 %	-0.0023 ppm
Concentration per Run 1	98.3532 %	101.9723 %	93.5055 %	77.4353 %	93.6537 %	94.1281 %	-0.0027 ppm
Concentration per Run 2	102.6378 %	102.2694 %	93.4937 %	82.5947 %	93.6754 %	93.8804 %	-0.0022 ppm
Concentration per Run 3	103.2565 %	102.3642 %	93.5270 %	85.6769 %	93.9634 %	94.2177 %	-0.0020 ppm
Concentration RSD	2.6 %	0.2 %	0.0 %	5.1 %	0.2 %	0.2 %	17.4 %

LabBook: WG1936225_06192024T6.imexp

Sample: L2434003-02 WG1935889
Analysis started at: 6/19/2024 9:22:31 AM
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	2.0370 ppm	0.0701 ppm	0.5033 ppm	0.0759 ppm	0.0001 ppm	130.7190 ppm
Concentration per Run 1	0.0001 ppm	2.1345 ppm	0.0699 ppm	0.5045 ppm	0.0794 ppm	0.0001 ppm	137.1689 ppm
Concentration per Run 2	-0.0004 ppm	2.0108 ppm	0.0699 ppm	0.5026 ppm	0.0747 ppm	0.0001 ppm	129.1892 ppm
Concentration per Run 3	-0.0004 ppm	1.9657 ppm	0.0704 ppm	0.5027 ppm	0.0734 ppm	0.0001 ppm	125.7990 ppm
Concentration RSD	110.2 %	4.3 %	0.4 %	0.2 %	4.2 %	15.5 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.0036 ppm	0.0078 ppm	0.2163 ppm	1.7679 ppm	7.6978 ppm	12.4501 ppm
Concentration per Run 1	0.0014 ppm	0.0036 ppm	0.0080 ppm	0.2165 ppm	1.8436 ppm	8.1016 ppm	12.5048 ppm
Concentration per Run 2	0.0014 ppm	0.0037 ppm	0.0078 ppm	0.2157 ppm	1.7474 ppm	7.5822 ppm	12.4518 ppm
Concentration per Run 3	0.0014 ppm	0.0036 ppm	0.0077 ppm	0.2166 ppm	1.7126 ppm	7.4096 ppm	12.3936 ppm
Concentration RSD	1.6 %	1.9 %	1.6 %	0.2 %	3.8 %	4.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1350 ppm	0.0102 ppm	96.8813 ppm	0.0182 ppm	0.4349 ppm	0.0061 ppm	-0.0011 ppm
Concentration per Run 1	0.1412 ppm	0.0104 ppm	101.5455 ppm	0.0183 ppm	0.4355 ppm	0.0062 ppm	-0.0013 ppm
Concentration per Run 2	0.1339 ppm	0.0101 ppm	95.6834 ppm	0.0182 ppm	0.4337 ppm	0.0061 ppm	-0.0006 ppm
Concentration per Run 3	0.1299 ppm	0.0100 ppm	93.4151 ppm	0.0182 ppm	0.4355 ppm	0.0059 ppm	-0.0013 ppm
Concentration RSD	4.2 %	2.1 %	4.3 %	0.3 %	0.2 %	2.7 %	35.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.0200 ppm	0.0167 ppm	0.3101 ppm	0.0670 ppm	-0.0007 ppm	0.0332 ppm	7.3183 ppm
Concentration per Run 1	7.0448 ppm	0.0170 ppm	0.3250 ppm	0.0670 ppm	-0.0007 ppm	0.0333 ppm	7.3508 ppm
Concentration per Run 2	6.9997 ppm	0.0165 ppm	0.3061 ppm	0.0671 ppm	-0.0006 ppm	0.0334 ppm	7.3138 ppm
Concentration per Run 3	7.0155 ppm	0.0166 ppm	0.2993 ppm	0.0670 ppm	-0.0009 ppm	0.0329 ppm	7.2902 ppm
Concentration RSD	0.3 %	1.6 %	4.3 %	0.0 %	17.1 %	0.7 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3644 %	96.3622 %	86.7204 %	79.0572 %	85.1075 %	86.8078 %	-0.0118 ppm
Concentration per Run 1	98.9451 %	96.4879 %	86.9443 %	75.4250 %	84.9588 %	86.5354 %	-0.0124 ppm
Concentration per Run 2	101.0967 %	96.5561 %	86.7180 %	79.7991 %	85.2638 %	87.0159 %	-0.0120 ppm
Concentration per Run 3	101.0515 %	96.0424 %	86.4989 %	81.9474 %	85.0999 %	86.8721 %	-0.0110 ppm
Concentration RSD	1.2 %	0.3 %	0.3 %	4.2 %	0.2 %	0.3 %	6.1 %

LabBook: WG1936225_06192024T6.imexp

Sample: L2432868-02 WG1935328
Analysis started at: 6/19/2024 9:28:59 AM
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0051 ppm	0.0001 ppm	0.0165 ppm	0.0203 ppm	0.0000 ppm	22.5410 ppm
Concentration per Run 1	-0.0002 ppm	0.0071 ppm	-0.0008 ppm	0.0164 ppm	0.0211 ppm	-0.0001 ppm	23.5701 ppm
Concentration per Run 2	0.0000 ppm	0.0020 ppm	0.0015 ppm	0.0165 ppm	0.0199 ppm	0.0000 ppm	22.0875 ppm
Concentration per Run 3	-0.0002 ppm	0.0063 ppm	-0.0005 ppm	0.0167 ppm	0.0197 ppm	0.0000 ppm	21.9655 ppm
Concentration RSD	67.3 %	53.9 %	1,351.7 %	0.8 %	3.6 %	55.9 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm	0.0004 ppm	34.0630 ppm	4.3244 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0022 ppm	0.0005 ppm	35.6041 ppm	4.3427 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm	-0.0001 ppm	33.3642 ppm	4.3296 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0019 ppm	0.0008 ppm	33.2205 ppm	4.3011 ppm
Concentration RSD	38.5 %	30.5 %	232.5 %	8.5 %	105.4 %	3.9 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0003 ppm	66.1338 ppm	0.0021 ppm	-0.0019 ppm	0.0014 ppm	-0.0009 ppm
Concentration per Run 1	0.0005 ppm	0.0004 ppm	69.1083 ppm	0.0022 ppm	-0.0020 ppm	0.0012 ppm	-0.0006 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	64.7582 ppm	0.0022 ppm	-0.0017 ppm	0.0015 ppm	-0.0009 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	64.5348 ppm	0.0020 ppm	-0.0020 ppm	0.0015 ppm	-0.0012 ppm
Concentration RSD	61.4 %	11.7 %	3.9 %	7.2 %	8.9 %	10.2 %	29.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.6875 ppm	-0.0011 ppm	0.1782 ppm	-0.0002 ppm	0.0004 ppm	0.0003 ppm	0.0058 ppm
Concentration per Run 1	7.7186 ppm	-0.0015 ppm	0.1862 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0059 ppm
Concentration per Run 2	7.6739 ppm	-0.0009 ppm	0.1745 ppm	-0.0002 ppm	0.0009 ppm	0.0001 ppm	0.0058 ppm
Concentration per Run 3	7.6701 ppm	-0.0010 ppm	0.1741 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0058 ppm
Concentration RSD	0.4 %	26.1 %	3.9 %	4.0 %	113.0 %	61.6 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6700 %	99.2403 %	90.1470 %	78.4979 %	89.6850 %	88.8985 %	0.0000 ppm
Concentration per Run 1	99.5581 %	99.3515 %	90.1913 %	75.2593 %	89.3137 %	88.6608 %	-0.0010 ppm
Concentration per Run 2	99.8381 %	99.3378 %	90.1901 %	80.0564 %	89.8290 %	88.9908 %	0.0000 ppm
Concentration per Run 3	99.6137 %	99.0317 %	90.0596 %	80.1782 %	89.9124 %	89.0438 %	0.0009 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	3.6 %	0.4 %	0.2 %	3,806.8 %

LabBook: WG1936225_06192024T6.imexp

Sample: L2432868-03 WG1935328
Analysis started at: 6/19/2024 9:35:36 AM
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0024 ppm	0.0004 ppm	0.0180 ppm	0.0200 ppm	0.0000 ppm	24.2558 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0179 ppm	0.0212 ppm	0.0000 ppm	25.7451 ppm
Concentration per Run 2	-0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0183 ppm	0.0196 ppm	0.0000 ppm	23.8212 ppm
Concentration per Run 3	-0.0001 ppm	0.0057 ppm	-0.0003 ppm	0.0179 ppm	0.0193 ppm	0.0000 ppm	23.2011 ppm
Concentration RSD	78.7 %	120.8 %	206.6 %	1.2 %	5.0 %	292.3 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0000 ppm	32.3779 ppm	4.5609 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0016 ppm	0.0001 ppm	34.1772 ppm	4.5701 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0006 ppm	31.8150 ppm	4.5611 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0015 ppm	-0.0007 ppm	31.1414 ppm	4.5515 ppm
Concentration RSD	34.6 %	17.2 %	504.3 %	7.5 %	2,476.2 %	4.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	0.0001 ppm	67.3045 ppm	0.0018 ppm	-0.0022 ppm	0.0009 ppm	-0.0011 ppm
Concentration per Run 1	0.0015 ppm	0.0000 ppm	70.9973 ppm	0.0017 ppm	-0.0030 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 2	0.0007 ppm	0.0003 ppm	66.1889 ppm	0.0018 ppm	-0.0017 ppm	0.0006 ppm	-0.0016 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	64.7274 ppm	0.0019 ppm	-0.0020 ppm	0.0008 ppm	-0.0018 ppm
Concentration RSD	39.9 %	98.3 %	4.9 %	3.7 %	30.7 %	31.4 %	86.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.0328 ppm	-0.0013 ppm	0.1887 ppm	0.0001 ppm	-0.0008 ppm	0.0002 ppm	0.0023 ppm
Concentration per Run 1	8.0600 ppm	-0.0014 ppm	0.1989 ppm	0.0003 ppm	-0.0011 ppm	0.0005 ppm	0.0023 ppm
Concentration per Run 2	8.0210 ppm	-0.0013 ppm	0.1854 ppm	0.0000 ppm	-0.0008 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	8.0174 ppm	-0.0011 ppm	0.1817 ppm	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0021 ppm
Concentration RSD	0.3 %	10.4 %	4.8 %	192.1 %	31.4 %	77.1 %	4.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.0091 %	99.5516 %	89.7174 %	78.2085 %	89.3757 %	88.9876 %	0.0000 ppm
Concentration per Run 1	95.6066 %	99.8203 %	89.7827 %	73.9812 %	88.9967 %	88.8343 %	0.0011 ppm
Concentration per Run 2	100.3275 %	99.4609 %	89.7137 %	79.2200 %	89.5457 %	89.0101 %	-0.0006 ppm
Concentration per Run 3	101.0931 %	99.3737 %	89.6559 %	81.4243 %	89.5848 %	89.1185 %	-0.0004 ppm
Concentration RSD	3.0 %	0.2 %	0.1 %	4.9 %	0.4 %	0.2 %	1,991.1 %

LabBook: WG1936225_06192024T6.imexp

Sample: L2433375-04 WG1935889
Analysis started at: 6/19/2024 9:42:14 AM
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0548 ppm	0.0003 ppm	0.0174 ppm	0.0558 ppm	0.0000 ppm	15.7112 ppm
Concentration per Run 1	0.0000 ppm	0.0516 ppm	0.0003 ppm	0.0176 ppm	0.0583 ppm	0.0001 ppm	16.4301 ppm
Concentration per Run 2	-0.0003 ppm	0.0546 ppm	0.0007 ppm	0.0174 ppm	0.0553 ppm	0.0000 ppm	15.5517 ppm
Concentration per Run 3	0.0000 ppm	0.0581 ppm	0.0000 ppm	0.0173 ppm	0.0538 ppm	0.0000 ppm	15.1517 ppm
Concentration RSD	127.4 %	5.9 %	97.2 %	0.9 %	4.1 %	233.7 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0022 ppm	0.0002 ppm	0.0911 ppm	1.4200 ppm	7.0686 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0002 ppm	0.0949 ppm	1.4897 ppm	7.0811 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0022 ppm	0.0003 ppm	0.0895 ppm	1.4197 ppm	7.0798 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0022 ppm	0.0001 ppm	0.0888 ppm	1.3505 ppm	7.0450 ppm
Concentration RSD	65.6 %	1,054.5 %	1.0 %	42.3 %	3.7 %	4.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0023 ppm	0.0001 ppm	20.3208 ppm	0.0008 ppm	-0.0025 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 1	0.0022 ppm	0.0002 ppm	21.2272 ppm	0.0007 ppm	-0.0022 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 2	0.0022 ppm	0.0001 ppm	20.1067 ppm	0.0008 ppm	-0.0025 ppm	0.0018 ppm	0.0004 ppm
Concentration per Run 3	0.0024 ppm	0.0001 ppm	19.6284 ppm	0.0007 ppm	-0.0028 ppm	0.0008 ppm	0.0007 ppm
Concentration RSD	4.3 %	44.2 %	4.0 %	9.1 %	12.1 %	37.9 %	162.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.1856 ppm	-0.0012 ppm	0.0976 ppm	0.0014 ppm	-0.0001 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 1	9.2488 ppm	-0.0009 ppm	0.1021 ppm	0.0014 ppm	-0.0005 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 2	9.1740 ppm	-0.0011 ppm	0.0965 ppm	0.0014 ppm	0.0001 ppm	0.0004 ppm	0.0016 ppm
Concentration per Run 3	9.1340 ppm	-0.0015 ppm	0.0943 ppm	0.0013 ppm	0.0000 ppm	0.0004 ppm	0.0015 ppm
Concentration RSD	0.6 %	28.8 %	4.2 %	1.7 %	216.3 %	12.5 %	4.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2582 %	103.0220 %	92.6150 %	79.0128 %	94.2624 %	91.5459 %	-0.0006 ppm
Concentration per Run 1	100.5612 %	103.0382 %	92.5612 %	75.9896 %	93.6855 %	91.1830 %	-0.0002 ppm
Concentration per Run 2	101.5912 %	102.8127 %	92.8685 %	79.6070 %	94.3311 %	91.4544 %	-0.0004 ppm
Concentration per Run 3	101.6222 %	103.2152 %	92.4153 %	81.4416 %	94.7707 %	92.0003 %	-0.0011 ppm
Concentration RSD	0.6 %	0.2 %	0.2 %	3.5 %	0.6 %	0.5 %	82.9 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935889-3 WG1935889
Analysis started at: 6/19/2024 9:48:50 AM
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0469 ppm	2.2529 ppm	0.1269 ppm	0.9703 ppm	2.2738 ppm	0.0540 ppm	24.8940 ppm
Concentration per Run 1	0.0473 ppm	2.3648 ppm	0.1275 ppm	0.9710 ppm	2.3875 ppm	0.0568 ppm	26.2151 ppm
Concentration per Run 2	0.0467 ppm	2.2257 ppm	0.1262 ppm	0.9698 ppm	2.2426 ppm	0.0534 ppm	24.5686 ppm
Concentration per Run 3	0.0468 ppm	2.1683 ppm	0.1271 ppm	0.9701 ppm	2.1912 ppm	0.0518 ppm	23.8985 ppm
Concentration RSD	0.7 %	4.5 %	0.5 %	0.1 %	4.5 %	4.7 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0485 ppm	0.4629 ppm	0.2010 ppm	0.2519 ppm	1.1082 ppm	11.7462 ppm	16.6130 ppm
Concentration per Run 1	0.0484 ppm	0.4634 ppm	0.2012 ppm	0.2524 ppm	1.1618 ppm	12.2889 ppm	16.6693 ppm
Concentration per Run 2	0.0485 ppm	0.4630 ppm	0.2017 ppm	0.2520 ppm	1.0941 ppm	11.6311 ppm	16.5929 ppm
Concentration per Run 3	0.0485 ppm	0.4625 ppm	0.2002 ppm	0.2513 ppm	1.0688 ppm	11.3187 ppm	16.5767 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %	4.3 %	4.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4939 ppm	0.8495 ppm	30.2599 ppm	0.4530 ppm	0.4821 ppm	0.4562 ppm	0.1083 ppm
Concentration per Run 1	0.5196 ppm	0.8414 ppm	31.7671 ppm	0.4530 ppm	0.4821 ppm	0.4560 ppm	0.1084 ppm
Concentration per Run 2	0.4871 ppm	0.8494 ppm	29.8678 ppm	0.4533 ppm	0.4823 ppm	0.4564 ppm	0.1077 ppm
Concentration per Run 3	0.4749 ppm	0.8576 ppm	29.1447 ppm	0.4527 ppm	0.4820 ppm	0.4563 ppm	0.1087 ppm
Concentration RSD	4.7 %	1.0 %	4.5 %	0.1 %	0.0 %	0.0 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.4505 ppm	0.9193 ppm	1.1175 ppm	0.9322 ppm	0.1107 ppm	0.4644 ppm	0.4645 ppm
Concentration per Run 1	10.4704 ppm	0.9192 ppm	1.1741 ppm	0.9329 ppm	0.1104 ppm	0.4646 ppm	0.4633 ppm
Concentration per Run 2	10.4426 ppm	0.9184 ppm	1.1025 ppm	0.9332 ppm	0.1106 ppm	0.4645 ppm	0.4649 ppm
Concentration per Run 3	10.4387 ppm	0.9204 ppm	1.0758 ppm	0.9304 ppm	0.1111 ppm	0.4643 ppm	0.4654 ppm
Concentration RSD	0.2 %	0.1 %	4.5 %	0.2 %	0.3 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1421 %	101.3450 %	90.4837 %	80.6526 %	91.3228 %	91.5943 %	-0.0012 ppm
Concentration per Run 1	99.2446 %	101.3199 %	90.3465 %	77.0742 %	91.2330 %	91.4072 %	-0.0010 ppm
Concentration per Run 2	100.7837 %	101.4743 %	90.4300 %	81.5750 %	91.2934 %	91.7364 %	-0.0013 ppm
Concentration per Run 3	100.3981 %	101.2409 %	90.6746 %	83.3088 %	91.4421 %	91.6394 %	-0.0014 ppm
Concentration RSD	0.8 %	0.1 %	0.2 %	4.0 %	0.1 %	0.2 %	18.4 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935889-4 WG1935889
Analysis started at: 6/19/2024 9:55:07 AM
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0465 ppm	2.2583 ppm	0.1279 ppm	0.9837 ppm	2.2767 ppm	0.0539 ppm	25.3543 ppm
Concentration per Run 1	0.0466 ppm	2.3783 ppm	0.1276 ppm	0.9834 ppm	2.3934 ppm	0.0566 ppm	26.7193 ppm
Concentration per Run 2	0.0465 ppm	2.2242 ppm	0.1283 ppm	0.9816 ppm	2.2460 ppm	0.0531 ppm	25.0239 ppm
Concentration per Run 3	0.0462 ppm	2.1723 ppm	0.1279 ppm	0.9860 ppm	2.1906 ppm	0.0518 ppm	24.3198 ppm
Concentration RSD	0.5 %	4.7 %	0.3 %	0.2 %	4.6 %	4.7 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0484 ppm	0.4601 ppm	0.1993 ppm	0.2492 ppm	1.1130 ppm	11.9743 ppm	16.8538 ppm
Concentration per Run 1	0.0484 ppm	0.4602 ppm	0.1997 ppm	0.2498 ppm	1.1675 ppm	12.6439 ppm	16.8735 ppm
Concentration per Run 2	0.0485 ppm	0.4593 ppm	0.1989 ppm	0.2496 ppm	1.1004 ppm	11.8242 ppm	16.8372 ppm
Concentration per Run 3	0.0485 ppm	0.4607 ppm	0.1994 ppm	0.2481 ppm	1.0710 ppm	11.4548 ppm	16.8506 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.4 %	4.4 %	5.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4915 ppm	0.8646 ppm	30.9766 ppm	0.4508 ppm	0.4896 ppm	0.4560 ppm	0.1093 ppm
Concentration per Run 1	0.5185 ppm	0.8566 ppm	32.5949 ppm	0.4508 ppm	0.4908 ppm	0.4543 ppm	0.1077 ppm
Concentration per Run 2	0.4851 ppm	0.8642 ppm	30.5573 ppm	0.4505 ppm	0.4889 ppm	0.4562 ppm	0.1098 ppm
Concentration per Run 3	0.4710 ppm	0.8731 ppm	29.7777 ppm	0.4512 ppm	0.4892 ppm	0.4574 ppm	0.1103 ppm
Concentration RSD	5.0 %	1.0 %	4.7 %	0.1 %	0.2 %	0.4 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.6467 ppm	0.9350 ppm	1.1407 ppm	0.9455 ppm	0.1129 ppm	0.4611 ppm	0.4638 ppm
Concentration per Run 1	10.6409 ppm	0.9344 ppm	1.1993 ppm	0.9464 ppm	0.1136 ppm	0.4617 ppm	0.4643 ppm
Concentration per Run 2	10.6304 ppm	0.9352 ppm	1.1261 ppm	0.9457 ppm	0.1121 ppm	0.4615 ppm	0.4639 ppm
Concentration per Run 3	10.6687 ppm	0.9355 ppm	1.0967 ppm	0.9443 ppm	0.1128 ppm	0.4601 ppm	0.4631 ppm
Concentration RSD	0.2 %	0.1 %	4.6 %	0.1 %	0.7 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7669 %	101.1097 %	90.6356 %	81.2762 %	91.4336 %	91.8240 %	-0.0015 ppm
Concentration per Run 1	99.0043 %	101.0025 %	90.6489 %	77.3573 %	91.4046 %	91.6245 %	-0.0013 ppm
Concentration per Run 2	101.7930 %	101.2003 %	90.7740 %	82.2525 %	91.6165 %	91.8050 %	-0.0015 ppm
Concentration per Run 3	101.5036 %	101.1262 %	90.4837 %	84.2189 %	91.2798 %	92.0425 %	-0.0018 ppm
Concentration RSD	1.5 %	0.1 %	0.2 %	4.3 %	0.2 %	0.2 %	17.2 %

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935889-5 WG1935889
Analysis started at: 6/19/2024 10:01:25 AM
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0443 ppm	2.1262 ppm	0.1241 ppm	0.9455 ppm	2.1679 ppm	0.0512 ppm	24.3020 ppm
Concentration per Run 1	0.0444 ppm	2.2356 ppm	0.1221 ppm	0.9424 ppm	2.2783 ppm	0.0537 ppm	25.5461 ppm
Concentration per Run 2	0.0445 ppm	2.0954 ppm	0.1245 ppm	0.9471 ppm	2.1403 ppm	0.0505 ppm	24.0395 ppm
Concentration per Run 3	0.0439 ppm	2.0475 ppm	0.1257 ppm	0.9468 ppm	2.0850 ppm	0.0494 ppm	23.3205 ppm
Concentration RSD	0.7 %	4.6 %	1.5 %	0.3 %	4.6 %	4.4 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0462 ppm	0.4396 ppm	0.1900 ppm	0.2384 ppm	1.0756 ppm	11.4716 ppm	16.2045 ppm
Concentration per Run 1	0.0459 ppm	0.4377 ppm	0.1900 ppm	0.2390 ppm	1.1340 ppm	12.0442 ppm	16.1967 ppm
Concentration per Run 2	0.0463 ppm	0.4404 ppm	0.1899 ppm	0.2383 ppm	1.0608 ppm	11.3404 ppm	16.1932 ppm
Concentration per Run 3	0.0463 ppm	0.4407 ppm	0.1900 ppm	0.2379 ppm	1.0321 ppm	11.0302 ppm	16.2236 ppm
Concentration RSD	0.4 %	0.4 %	0.0 %	0.2 %	4.9 %	4.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4685 ppm	0.8285 ppm	29.6133 ppm	0.4314 ppm	0.4722 ppm	0.4310 ppm	0.1057 ppm
Concentration per Run 1	0.4941 ppm	0.8183 ppm	31.0708 ppm	0.4296 ppm	0.4716 ppm	0.4267 ppm	0.1052 ppm
Concentration per Run 2	0.4627 ppm	0.8303 ppm	29.2772 ppm	0.4322 ppm	0.4722 ppm	0.4314 ppm	0.1064 ppm
Concentration per Run 3	0.4488 ppm	0.8369 ppm	28.4918 ppm	0.4324 ppm	0.4729 ppm	0.4348 ppm	0.1055 ppm
Concentration RSD	5.0 %	1.1 %	4.5 %	0.4 %	0.1 %	0.9 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.1267 ppm	0.9049 ppm	1.0864 ppm	0.9014 ppm	0.1101 ppm	0.4388 ppm	0.4416 ppm
Concentration per Run 1	10.1340 ppm	0.8986 ppm	1.1416 ppm	0.9019 ppm	0.1105 ppm	0.4402 ppm	0.4385 ppm
Concentration per Run 2	10.1326 ppm	0.9076 ppm	1.0729 ppm	0.9010 ppm	0.1092 ppm	0.4385 ppm	0.4437 ppm
Concentration per Run 3	10.1134 ppm	0.9085 ppm	1.0448 ppm	0.9012 ppm	0.1107 ppm	0.4376 ppm	0.4426 ppm
Concentration RSD	0.1 %	0.6 %	4.6 %	0.1 %	0.7 %	0.3 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9526 %	101.1244 %	90.4374 %	80.5762 %	91.2955 %	91.3780 %	-0.0012 ppm
Concentration per Run 1	98.6579 %	101.3390 %	90.4839 %	76.7997 %	91.1569 %	91.3824 %	-0.0015 ppm
Concentration per Run 2	100.5309 %	101.2221 %	90.4862 %	81.2434 %	91.2869 %	91.3993 %	-0.0013 ppm
Concentration per Run 3	100.6688 %	100.8120 %	90.3422 %	83.6856 %	91.4427 %	91.3522 %	-0.0007 ppm
Concentration RSD	1.1 %	0.3 %	0.1 %	4.3 %	0.2 %	0.0 %	37.2 %

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935889-6d5 WG1935889
Analysis started at: 6/19/2024 10:07:43 AM
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0141 ppm	0.0002 ppm	0.0044 ppm	0.0109 ppm	0.0000 ppm	3.0413 ppm
Concentration per Run 1	0.0001 ppm	0.0120 ppm	-0.0001 ppm	0.0042 ppm	0.0113 ppm	0.0000 ppm	3.1812 ppm
Concentration per Run 2	-0.0006 ppm	0.0126 ppm	-0.0008 ppm	0.0045 ppm	0.0107 ppm	0.0000 ppm	3.0082 ppm
Concentration per Run 3	0.0001 ppm	0.0177 ppm	0.0015 ppm	0.0046 ppm	0.0105 ppm	0.0000 ppm	2.9345 ppm
Concentration RSD	296.3 %	22.0 %	569.5 %	4.5 %	3.9 %	65.6 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0205 ppm	0.3243 ppm	1.4259 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0210 ppm	0.3288 ppm	1.4308 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0204 ppm	0.3216 ppm	1.4233 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0201 ppm	0.3225 ppm	1.4237 ppm
Concentration RSD	2,219.5 %	747.9 %	21.4 %	114.2 %	2.4 %	1.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	0.0018 ppm	3.9335 ppm	0.0004 ppm	-0.0008 ppm	0.0040 ppm	0.0003 ppm
Concentration per Run 1	0.0010 ppm	0.0022 ppm	4.1105 ppm	0.0002 ppm	-0.0007 ppm	0.0043 ppm	0.0004 ppm
Concentration per Run 2	0.0009 ppm	0.0017 ppm	3.8848 ppm	0.0005 ppm	-0.0009 ppm	0.0036 ppm	-0.0004 ppm
Concentration per Run 3	0.0006 ppm	0.0015 ppm	3.8053 ppm	0.0005 ppm	-0.0007 ppm	0.0039 ppm	0.0009 ppm
Concentration RSD	25.4 %	20.6 %	4.0 %	41.4 %	10.3 %	8.4 %	229.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.7689 ppm	0.0021 ppm	0.0188 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.0030 ppm
Concentration per Run 1	1.7723 ppm	0.0024 ppm	0.0197 ppm	0.0004 ppm	-0.0009 ppm	0.0004 ppm	0.0031 ppm
Concentration per Run 2	1.7671 ppm	0.0021 ppm	0.0185 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0030 ppm
Concentration per Run 3	1.7672 ppm	0.0016 ppm	0.0182 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0030 ppm
Concentration RSD	0.2 %	20.1 %	4.3 %	67.6 %	263.2 %	64.1 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1299 %	104.8816 %	93.4235 %	82.3976 %	98.3986 %	94.8087 %	0.0009 ppm
Concentration per Run 1	98.5281 %	104.9945 %	93.5678 %	79.1038 %	98.3109 %	94.7336 %	0.0018 ppm
Concentration per Run 2	100.9733 %	104.8224 %	93.5203 %	83.3410 %	98.5551 %	94.8946 %	0.0003 ppm
Concentration per Run 3	100.8884 %	104.8279 %	93.1823 %	84.7481 %	98.3299 %	94.7978 %	0.0007 ppm
Concentration RSD	1.4 %	0.1 %	0.2 %	3.6 %	0.1 %	0.1 %	85.2 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: CCV
Analysis started at: 6/19/2024 10:14:21 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4695 ppm	0.5148 ppm	0.5194 ppm	0.4836 ppm	0.5284 ppm	0.5090 ppm	0.4650 ppm
Concentration per Run 1	0.4696 ppm	0.5275 ppm	0.5210 ppm	0.4839 ppm	0.5405 ppm	0.5210 ppm	0.4765 ppm
Concentration per Run 2	0.4702 ppm	0.5125 ppm	0.5166 ppm	0.4834 ppm	0.5233 ppm	0.5038 ppm	0.4594 ppm
Concentration per Run 3	0.4686 ppm	0.5045 ppm	0.5205 ppm	0.4834 ppm	0.5216 ppm	0.5022 ppm	0.4590 ppm
Recovery Percentage 1	93.898 %	102.961 %	103.871 %	96.712 %	105.686 %	101.801 %	92.992 %
Concentration RSD	0.2 %	2.3 %	0.5 %	0.1 %	2.0 %	2.0 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4510 ppm	0.4830 ppm	0.5117 ppm	0.4969 ppm	0.4978 ppm	4.9624 ppm	0.5027 ppm
Concentration per Run 1	0.4508 ppm	0.4830 ppm	0.5119 ppm	0.4961 ppm	0.5082 ppm	5.0737 ppm	0.5044 ppm
Concentration per Run 2	0.4514 ppm	0.4826 ppm	0.5120 ppm	0.4974 ppm	0.4919 ppm	4.9287 ppm	0.5046 ppm
Concentration per Run 3	0.4509 ppm	0.4833 ppm	0.5113 ppm	0.4973 ppm	0.4933 ppm	4.8849 ppm	0.4990 ppm
Recovery Percentage 1	90.208 %	96.599 %	102.350 %	99.388 %	99.561 %	99.249 %	100.532 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %	1.8 %	2.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4591 ppm	0.4489 ppm	9.8442 ppm	0.4696 ppm	0.4664 ppm	0.4627 ppm	0.4486 ppm
Concentration per Run 1	0.4699 ppm	0.4471 ppm	10.0690 ppm	0.4696 ppm	0.4659 ppm	0.4613 ppm	0.4474 ppm
Concentration per Run 2	0.4530 ppm	0.4496 ppm	9.7308 ppm	0.4699 ppm	0.4668 ppm	0.4621 ppm	0.4505 ppm
Concentration per Run 3	0.4545 ppm	0.4500 ppm	9.7329 ppm	0.4694 ppm	0.4666 ppm	0.4647 ppm	0.4480 ppm
Recovery Percentage 1	91.827 %	89.779 %	98.442 %	93.929 %	93.288 %	92.538 %	89.726 %
Concentration RSD	2.0 %	0.3 %	2.0 %	0.0 %	0.1 %	0.4 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1487 ppm	0.4888 ppm	0.4996 ppm	0.4769 ppm	0.4872 ppm	0.4723 ppm	0.4698 ppm
Concentration per Run 1	5.1450 ppm	0.4883 ppm	0.5112 ppm	0.4768 ppm	0.4867 ppm	0.4726 ppm	0.4696 ppm
Concentration per Run 2	5.1528 ppm	0.4886 ppm	0.4940 ppm	0.4774 ppm	0.4869 ppm	0.4728 ppm	0.4705 ppm
Concentration per Run 3	5.1482 ppm	0.4893 ppm	0.4936 ppm	0.4766 ppm	0.4881 ppm	0.4714 ppm	0.4694 ppm
Recovery Percentage 1	98.070 %	97.751 %	99.921 %	95.385 %	97.444 %	94.455 %	93.965 %
Concentration RSD	0.1 %	0.1 %	2.0 %	0.1 %	0.2 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.2446 %	102.8440 %	92.2759 %	88.3979 %	94.7281 %	94.0610 %	0.4896 ppm
Concentration per Run 1	96.0582 %	102.9227 %	92.1699 %	86.1283 %	94.7810 %	94.0968 %	0.5001 ppm
Concentration per Run 2	100.5846 %	103.0152 %	92.3188 %	89.4409 %	94.7296 %	94.1164 %	0.4839 ppm
Concentration per Run 3	101.0910 %	102.5942 %	92.3389 %	89.6245 %	94.6738 %	93.9697 %	0.4847 ppm
Recovery Percentage 1							97.916 %
Concentration RSD	2.8 %	0.2 %	0.1 %	2.2 %	0.1 %	0.1 %	1.9 %

LabBook: WG1936225_06192024T6.imexp

Sample: CCB
Analysis started at: 6/19/2024 10:20:40 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0017 ppm	0.0006 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	0.0006 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm
Recovery Percentage 1	-0.302 %	0.000 %	7.620 %	3.931 %	0.492 %	-0.254 %	0.000 %
Concentration RSD	433.7 %	266.0 %	109.4 %	9.4 %	134.9 %	186.1 %	128.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0631 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0764 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0731 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0399 ppm	0.0017 ppm
Recovery Percentage 1	-0.198 %	-0.078 %	-0.706 %	-2.911 %	0.000 %	2.526 %	0.000 %
Concentration RSD	132.7 %	701.1 %	148.7 %	20.1 %	66.0 %	32.0 %	31.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0006 ppm	0.0144 ppm	0.0001 ppm	-0.0001 ppm	0.0017 ppm	0.0010 ppm
Concentration per Run 1	0.0002 ppm	0.0007 ppm	0.0072 ppm	0.0000 ppm	-0.0001 ppm	0.0019 ppm	0.0016 ppm
Concentration per Run 2	0.0002 ppm	0.0006 ppm	0.0136 ppm	0.0001 ppm	-0.0001 ppm	0.0020 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0225 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0004 ppm
Recovery Percentage 1	1.525 %	1.239 %	0.721 %	0.346 %	-1.222 %	3.469 %	10.138 %
Concentration RSD	18.3 %	10.4 %	53.4 %	80.4 %	13.4 %	19.8 %	62.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0008 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	-0.0011 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	-0.0008 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	-0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm
Recovery Percentage 1	-0.166 %	0.430 %	-0.071 %	-2.734 %	-2.181 %	1.669 %	3.897 %
Concentration RSD	28.7 %	66.8 %	244.0 %	30.9 %	11.6 %	42.7 %	21.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.2067 %	105.0624 %	92.5592 %	81.2180 %	97.5229 %	93.5062 %	0.0002 ppm
Concentration per Run 1	96.3535 %	105.0750 %	92.6515 %	77.9210 %	97.2581 %	93.3315 %	-0.0003 ppm
Concentration per Run 2	98.9950 %	105.0773 %	92.6907 %	82.1919 %	97.7532 %	93.4451 %	0.0010 ppm
Concentration per Run 3	99.2715 %	105.0349 %	92.3355 %	83.5411 %	97.5576 %	93.7420 %	0.0000 ppm
Recovery Percentage 1							2.070 %
Concentration RSD	1.6 %	0.0 %	0.2 %	3.6 %	0.3 %	0.2 %	322.7 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: L2432868-04 WG1935328
Analysis started at: 6/19/2024 10:27:23 AM
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0036 ppm	0.0004 ppm	0.0183 ppm	0.0206 ppm	0.0000 ppm	23.6376 ppm
Concentration per Run 1	0.0000 ppm	0.0046 ppm	-0.0001 ppm	0.0183 ppm	0.0217 ppm	0.0000 ppm	24.9332 ppm
Concentration per Run 2	-0.0001 ppm	0.0029 ppm	0.0001 ppm	0.0185 ppm	0.0203 ppm	0.0000 ppm	23.3064 ppm
Concentration per Run 3	-0.0001 ppm	0.0033 ppm	0.0011 ppm	0.0180 ppm	0.0199 ppm	0.0000 ppm	22.6734 ppm
Concentration RSD	58.4 %	24.9 %	168.4 %	1.4 %	4.7 %	326.2 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0030 ppm	0.0016 ppm	31.5911 ppm	4.5706 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0029 ppm	0.0019 ppm	33.2254 ppm	4.5846 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0031 ppm	0.0008 ppm	31.1999 ppm	4.5741 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0029 ppm	0.0022 ppm	30.3479 ppm	4.5533 ppm
Concentration RSD	44.9 %	26.9 %	82.0 %	4.3 %	45.7 %	4.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0002 ppm	66.3644 ppm	0.0018 ppm	-0.0024 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	69.8407 ppm	0.0017 ppm	-0.0025 ppm	0.0006 ppm	-0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	65.4708 ppm	0.0019 ppm	-0.0022 ppm	0.0017 ppm	0.0006 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	63.7818 ppm	0.0019 ppm	-0.0025 ppm	0.0008 ppm	-0.0002 ppm
Concentration RSD	30.0 %	45.7 %	4.7 %	5.8 %	7.0 %	54.5 %	1,078.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.0650 ppm	-0.0015 ppm	0.1869 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 1	8.1061 ppm	-0.0015 ppm	0.1965 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0032 ppm
Concentration per Run 2	8.0624 ppm	-0.0015 ppm	0.1845 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 3	8.0266 ppm	-0.0014 ppm	0.1798 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0031 ppm
Concentration RSD	0.5 %	3.5 %	4.6 %	323.7 %	72.9 %	75.7 %	3.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.4200 %	98.3970 %	87.7061 %	78.2376 %	87.9707 %	87.5015 %	0.0006 ppm
Concentration per Run 1	96.9295 %	98.3762 %	87.7855 %	74.6333 %	87.5244 %	87.1630 %	0.0007 ppm
Concentration per Run 2	99.1285 %	98.3817 %	87.5791 %	79.1190 %	87.9856 %	87.4728 %	0.0001 ppm
Concentration per Run 3	99.2019 %	98.4331 %	87.7539 %	80.9606 %	88.4021 %	87.8687 %	0.0009 ppm
Concentration RSD	1.3 %	0.0 %	0.1 %	4.2 %	0.5 %	0.4 %	69.9 %

LabBook: WG1936225_06192024T6.imexp

Sample: xL2433492-01 WG1935889
Analysis started at: 6/19/2024 10:34:01 AM
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0243 ppm	-0.0005 ppm	0.0462 ppm	0.0156 ppm	0.0000 ppm	47.0131 ppm
Concentration per Run 1	-0.0003 ppm	0.0229 ppm	0.0002 ppm	0.0464 ppm	0.0163 ppm	0.0000 ppm	49.3751 ppm
Concentration per Run 2	0.0001 ppm	0.0248 ppm	-0.0010 ppm	0.0459 ppm	0.0154 ppm	0.0000 ppm	46.3125 ppm
Concentration per Run 3	-0.0002 ppm	0.0253 ppm	-0.0005 ppm	0.0463 ppm	0.0150 ppm	0.0000 ppm	45.3516 ppm
Concentration RSD	129.5 %	5.2 %	131.0 %	0.6 %	4.3 %	513.0 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.1554 ppm	0.0001 ppm	0.0031 ppm	0.0033 ppm	0.0825 ppm	5.4026 ppm	5.9971 ppm
Concentration per Run 1	0.1564 ppm	0.0001 ppm	0.0030 ppm	0.0033 ppm	0.0864 ppm	5.6775 ppm	6.0175 ppm
Concentration per Run 2	0.1541 ppm	0.0002 ppm	0.0029 ppm	0.0032 ppm	0.0816 ppm	5.3222 ppm	5.9933 ppm
Concentration per Run 3	0.1556 ppm	0.0002 ppm	0.0033 ppm	0.0033 ppm	0.0794 ppm	5.2080 ppm	5.9803 ppm
Concentration RSD	0.7 %	38.0 %	7.5 %	1.9 %	4.4 %	4.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1117 ppm	0.0017 ppm	16.6096 ppm	0.0013 ppm	-0.0027 ppm	0.0018 ppm	-0.0017 ppm
Concentration per Run 1	0.1172 ppm	0.0018 ppm	17.3946 ppm	0.0013 ppm	-0.0028 ppm	0.0019 ppm	-0.0011 ppm
Concentration per Run 2	0.1103 ppm	0.0016 ppm	16.3875 ppm	0.0014 ppm	-0.0025 ppm	0.0021 ppm	-0.0031 ppm
Concentration per Run 3	0.1075 ppm	0.0017 ppm	16.0466 ppm	0.0013 ppm	-0.0027 ppm	0.0013 ppm	-0.0009 ppm
Concentration RSD	4.5 %	6.1 %	4.2 %	6.3 %	5.6 %	21.2 %	72.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.4765 ppm	-0.0011 ppm	0.2243 ppm	0.0006 ppm	-0.0006 ppm	0.0018 ppm	0.0048 ppm
Concentration per Run 1	9.5502 ppm	-0.0011 ppm	0.2344 ppm	0.0008 ppm	-0.0002 ppm	0.0018 ppm	0.0049 ppm
Concentration per Run 2	9.3968 ppm	-0.0008 ppm	0.2219 ppm	0.0004 ppm	-0.0013 ppm	0.0018 ppm	0.0048 ppm
Concentration per Run 3	9.4824 ppm	-0.0013 ppm	0.2165 ppm	0.0006 ppm	-0.0003 ppm	0.0019 ppm	0.0048 ppm
Concentration RSD	0.8 %	22.1 %	4.1 %	36.7 %	103.6 %	3.2 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.9898 %	100.4370 %	88.7539 %	79.3411 %	90.7069 %	88.9985 %	-0.0015 ppm
Concentration per Run 1	97.8771 %	100.5108 %	88.4930 %	75.6707 %	90.0268 %	88.7194 %	-0.0015 ppm
Concentration per Run 2	99.6684 %	100.3202 %	89.4583 %	80.4612 %	91.4960 %	88.9340 %	-0.0012 ppm
Concentration per Run 3	99.4240 %	100.4801 %	88.3104 %	81.8915 %	90.5979 %	89.3422 %	-0.0017 ppm
Concentration RSD	1.0 %	0.1 %	0.7 %	4.1 %	0.8 %	0.4 %	18.4 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: xWG1935889-7 WG1935889
Analysis started at: 6/19/2024 10:40:37 AM
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0464 ppm	2.2439 ppm	0.1314 ppm	1.0310 ppm	2.2747 ppm	0.0539 ppm	55.9497 ppm
Concentration per Run 1	0.0466 ppm	2.3699 ppm	0.1314 ppm	1.0321 ppm	2.3928 ppm	0.0566 ppm	58.9846 ppm
Concentration per Run 2	0.0465 ppm	2.2054 ppm	0.1310 ppm	1.0287 ppm	2.2416 ppm	0.0531 ppm	55.1592 ppm
Concentration per Run 3	0.0459 ppm	2.1564 ppm	0.1318 ppm	1.0323 ppm	2.1899 ppm	0.0521 ppm	53.7054 ppm
Concentration RSD	0.8 %	5.0 %	0.3 %	0.2 %	4.6 %	4.4 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.2029 ppm	0.4597 ppm	0.2031 ppm	0.2601 ppm	1.1068 ppm	15.7509 ppm	15.8822 ppm
Concentration per Run 1	0.2032 ppm	0.4602 ppm	0.2031 ppm	0.2611 ppm	1.1618 ppm	16.5705 ppm	15.9045 ppm
Concentration per Run 2	0.2027 ppm	0.4587 ppm	0.2032 ppm	0.2599 ppm	1.0909 ppm	15.5190 ppm	15.8831 ppm
Concentration per Run 3	0.2029 ppm	0.4601 ppm	0.2029 ppm	0.2594 ppm	1.0677 ppm	15.1632 ppm	15.8590 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %	4.4 %	4.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5861 ppm	0.8699 ppm	27.1255 ppm	0.4511 ppm	0.4900 ppm	0.4650 ppm	0.1131 ppm
Concentration per Run 1	0.6173 ppm	0.8622 ppm	28.5297 ppm	0.4519 ppm	0.4907 ppm	0.4634 ppm	0.1140 ppm
Concentration per Run 2	0.5764 ppm	0.8692 ppm	26.7298 ppm	0.4508 ppm	0.4893 ppm	0.4644 ppm	0.1122 ppm
Concentration per Run 3	0.5645 ppm	0.8784 ppm	26.1172 ppm	0.4505 ppm	0.4899 ppm	0.4670 ppm	0.1131 ppm
Concentration RSD	4.7 %	0.9 %	4.6 %	0.2 %	0.1 %	0.4 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.8203 ppm	0.9465 ppm	1.2587 ppm	0.9422 ppm	0.1129 ppm	0.4586 ppm	0.4585 ppm
Concentration per Run 1	10.8257 ppm	0.9481 ppm	1.3240 ppm	0.9439 ppm	0.1141 ppm	0.4590 ppm	0.4589 ppm
Concentration per Run 2	10.8031 ppm	0.9451 ppm	1.2405 ppm	0.9426 ppm	0.1124 ppm	0.4598 ppm	0.4584 ppm
Concentration per Run 3	10.8320 ppm	0.9464 ppm	1.2115 ppm	0.9401 ppm	0.1122 ppm	0.4572 ppm	0.4582 ppm
Concentration RSD	0.1 %	0.2 %	4.6 %	0.2 %	0.9 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.1952 %	98.4671 %	87.3496 %	80.1659 %	88.4774 %	89.5010 %	-0.0027 ppm
Concentration per Run 1	95.4508 %	98.3578 %	87.3079 %	76.0679 %	88.3990 %	89.2467 %	-0.0030 ppm
Concentration per Run 2	98.0017 %	98.2670 %	87.3318 %	81.3605 %	88.6166 %	89.4010 %	-0.0026 ppm
Concentration per Run 3	98.1333 %	98.7767 %	87.4092 %	83.0693 %	88.4166 %	89.8554 %	-0.0026 ppm
Concentration RSD	1.6 %	0.3 %	0.1 %	4.6 %	0.1 %	0.4 %	8.1 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: xWG1935889-8 WG1935889
Analysis started at: 6/19/2024 10:46:55 AM
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0163 ppm	-0.0003 ppm	0.0461 ppm	0.0155 ppm	0.0000 ppm	46.2656 ppm
Concentration per Run 1	-0.0001 ppm	0.0167 ppm	0.0003 ppm	0.0458 ppm	0.0163 ppm	0.0000 ppm	48.8235 ppm
Concentration per Run 2	-0.0002 ppm	0.0134 ppm	-0.0016 ppm	0.0463 ppm	0.0153 ppm	0.0000 ppm	45.5324 ppm
Concentration per Run 3	0.0000 ppm	0.0188 ppm	0.0004 ppm	0.0463 ppm	0.0149 ppm	0.0000 ppm	44.4409 ppm
Concentration RSD	123.8 %	16.7 %	335.6 %	0.7 %	4.6 %	80.0 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.1536 ppm	0.0002 ppm	0.0031 ppm	0.0032 ppm	0.0831 ppm	5.2995 ppm	5.9270 ppm
Concentration per Run 1	0.1541 ppm	0.0001 ppm	0.0032 ppm	0.0032 ppm	0.0883 ppm	5.5928 ppm	5.9494 ppm
Concentration per Run 2	0.1537 ppm	0.0002 ppm	0.0029 ppm	0.0032 ppm	0.0809 ppm	5.2060 ppm	5.9265 ppm
Concentration per Run 3	0.1529 ppm	0.0002 ppm	0.0031 ppm	0.0033 ppm	0.0802 ppm	5.0996 ppm	5.9050 ppm
Concentration RSD	0.4 %	52.7 %	4.4 %	0.8 %	5.4 %	4.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1097 ppm	0.0029 ppm	16.3741 ppm	0.0014 ppm	-0.0026 ppm	0.0026 ppm	-0.0003 ppm
Concentration per Run 1	0.1158 ppm	0.0032 ppm	17.2217 ppm	0.0013 ppm	-0.0026 ppm	0.0025 ppm	-0.0009 ppm
Concentration per Run 2	0.1078 ppm	0.0029 ppm	16.1472 ppm	0.0014 ppm	-0.0026 ppm	0.0023 ppm	0.0011 ppm
Concentration per Run 3	0.1056 ppm	0.0027 ppm	15.7534 ppm	0.0015 ppm	-0.0027 ppm	0.0029 ppm	-0.0012 ppm
Concentration RSD	4.9 %	9.2 %	4.6 %	7.8 %	1.1 %	12.4 %	372.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.3990 ppm	-0.0001 ppm	0.2205 ppm	0.0005 ppm	-0.0005 ppm	0.0018 ppm	0.0047 ppm
Concentration per Run 1	9.4061 ppm	0.0000 ppm	0.2317 ppm	0.0005 ppm	-0.0006 ppm	0.0019 ppm	0.0049 ppm
Concentration per Run 2	9.3943 ppm	0.0000 ppm	0.2178 ppm	0.0007 ppm	-0.0009 ppm	0.0017 ppm	0.0045 ppm
Concentration per Run 3	9.3965 ppm	-0.0004 ppm	0.2121 ppm	0.0004 ppm	-0.0001 ppm	0.0019 ppm	0.0047 ppm
Concentration RSD	0.1 %	217.2 %	4.6 %	31.7 %	79.0 %	5.2 %	3.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.8256 %	100.0235 %	88.4365 %	79.2215 %	90.5272 %	89.2623 %	-0.0016 ppm
Concentration per Run 1	96.4994 %	100.1071 %	88.7461 %	75.0972 %	90.4777 %	88.9677 %	-0.0014 ppm
Concentration per Run 2	98.7518 %	100.0120 %	88.5636 %	80.5575 %	90.5562 %	89.3353 %	-0.0014 ppm
Concentration per Run 3	98.2256 %	99.9514 %	87.9997 %	82.0099 %	90.5477 %	89.4838 %	-0.0019 ppm
Concentration RSD	1.2 %	0.1 %	0.4 %	4.6 %	0.0 %	0.3 %	17.7 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: CCV
Analysis started at: 6/19/2024 11:34:33 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4722 ppm	0.5178 ppm	0.5427 ppm	0.4895 ppm	0.5294 ppm	0.5291 ppm	0.4969 ppm
Concentration per Run 1	0.4723 ppm	0.5344 ppm	0.5399 ppm	0.4888 ppm	0.5448 ppm	0.5472 ppm	0.5183 ppm
Concentration per Run 2	0.4715 ppm	0.5145 ppm	0.5420 ppm	0.4902 ppm	0.5225 ppm	0.5217 ppm	0.4886 ppm
Concentration per Run 3	0.4729 ppm	0.5046 ppm	0.5463 ppm	0.4895 ppm	0.5208 ppm	0.5185 ppm	0.4838 ppm
Recovery Percentage 1	94.447 %	103.567 %	108.545 %	97.905 %	105.871 %	105.825 %	99.376 %
Concentration RSD	0.1 %	2.9 %	0.6 %	0.1 %	2.5 %	3.0 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4650 ppm	0.4696 ppm	0.5246 ppm	0.5061 ppm	0.5486 ppm	5.1320 ppm	0.5436 ppm
Concentration per Run 1	0.4656 ppm	0.4693 ppm	0.5241 ppm	0.5060 ppm	0.5652 ppm	5.2881 ppm	0.5446 ppm
Concentration per Run 2	0.4660 ppm	0.4707 ppm	0.5248 ppm	0.5056 ppm	0.5432 ppm	5.0719 ppm	0.5410 ppm
Concentration per Run 3	0.4634 ppm	0.4690 ppm	0.5250 ppm	0.5066 ppm	0.5374 ppm	5.0358 ppm	0.5453 ppm
Recovery Percentage 1	93.008 %	93.929 %	104.929 %	101.215 %	109.719 %	102.639 %	108.728 %
Concentration RSD	0.3 %	0.2 %	0.1 %	0.1 %	2.7 %	2.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5102 ppm	0.4867 ppm	10.1666 ppm	0.4684 ppm	0.4869 ppm	0.4993 ppm	0.5056 ppm
Concentration per Run 1	0.5273 ppm	0.4866 ppm	10.4790 ppm	0.4692 ppm	0.4882 ppm	0.5022 ppm	0.5078 ppm
Concentration per Run 2	0.5047 ppm	0.4877 ppm	10.0286 ppm	0.4686 ppm	0.4878 ppm	0.4985 ppm	0.5066 ppm
Concentration per Run 3	0.4986 ppm	0.4859 ppm	9.9922 ppm	0.4673 ppm	0.4846 ppm	0.4972 ppm	0.5023 ppm
Recovery Percentage 1	102.043 %	97.341 %	101.666 %	93.679 %	97.379 %	99.861 %	101.114 %
Concentration RSD	3.0 %	0.2 %	2.7 %	0.2 %	0.4 %	0.5 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1989 ppm	0.5341 ppm	0.4810 ppm	0.4897 ppm	0.5341 ppm	0.4698 ppm	0.4883 ppm
Concentration per Run 1	5.1930 ppm	0.5350 ppm	0.4950 ppm	0.4898 ppm	0.5363 ppm	0.4697 ppm	0.4878 ppm
Concentration per Run 2	5.2077 ppm	0.5349 ppm	0.4747 ppm	0.4894 ppm	0.5349 ppm	0.4700 ppm	0.4891 ppm
Concentration per Run 3	5.1960 ppm	0.5323 ppm	0.4733 ppm	0.4898 ppm	0.5312 ppm	0.4696 ppm	0.4881 ppm
Recovery Percentage 1	99.027 %	106.814 %	96.203 %	97.932 %	106.826 %	93.952 %	97.661 %
Concentration RSD	0.1 %	0.3 %	2.5 %	0.0 %	0.5 %	0.0 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	89.3581 %	98.0918 %	99.0657 %	85.0637 %	99.4976 %	94.9632 %	0.4844 ppm
Concentration per Run 1	86.1369 %	98.1050 %	99.2039 %	82.3542 %	99.3778 %	95.0995 %	0.4969 ppm
Concentration per Run 2	90.8327 %	97.9864 %	99.1796 %	86.1492 %	99.4388 %	94.8955 %	0.4794 ppm
Concentration per Run 3	91.1046 %	98.1841 %	98.8136 %	86.6877 %	99.6761 %	94.8946 %	0.4769 ppm
Recovery Percentage 1							96.877 %
Concentration RSD	3.1 %	0.1 %	0.2 %	2.8 %	0.2 %	0.1 %	2.3 %

LabBook: WG1936225_06192024T6.imexp

Sample: CCB
Analysis started at: 6/19/2024 11:40:52 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0008 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 1	-0.0001 ppm	-0.0040 ppm	-0.0003 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 2	-0.0002 ppm	-0.0006 ppm	0.0006 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0085 ppm
Concentration per Run 3	-0.0001 ppm	0.0023 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm
Recovery Percentage 1	-2.228 %	0.000 %	3.431 %	2.113 %	1.380 %	0.412 %	0.001 %
Concentration RSD	27.5 %	402.6 %	283.5 %	30.2 %	59.6 %	160.0 %	22.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0728 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0014 ppm	0.0522 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0753 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0910 ppm	-0.0001 ppm
Recovery Percentage 1	0.340 %	-0.142 %	-2.427 %	0.296 %	0.000 %	2.912 %	0.000 %
Concentration RSD	99.1 %	106.4 %	76.2 %	465.3 %	167.0 %	26.8 %	92.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0009 ppm	0.0151 ppm	-0.0001 ppm	-0.0002 ppm	0.0023 ppm	-0.0007 ppm
Concentration per Run 1	0.0004 ppm	0.0010 ppm	0.0118 ppm	0.0000 ppm	-0.0001 ppm	0.0018 ppm	-0.0009 ppm
Concentration per Run 2	0.0002 ppm	0.0009 ppm	0.0160 ppm	0.0000 ppm	-0.0003 ppm	0.0024 ppm	-0.0004 ppm
Concentration per Run 3	0.0005 ppm	0.0009 ppm	0.0176 ppm	-0.0001 ppm	-0.0002 ppm	0.0028 ppm	-0.0008 ppm
Recovery Percentage 1	3.399 %	1.859 %	0.755 %	-0.204 %	-2.106 %	4.646 %	-6.884 %
Concentration RSD	37.8 %	11.1 %	19.9 %	145.3 %	64.3 %	20.9 %	43.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0003 ppm	0.0010 ppm	-0.0001 ppm	-0.0004 ppm	-0.0005 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	-0.0001 ppm	-0.0004 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0006 ppm	0.0010 ppm	-0.0001 ppm	-0.0004 ppm	-0.0010 ppm	0.0002 ppm	0.0003 ppm
Recovery Percentage 1	-0.053 %	2.025 %	-0.571 %	-3.762 %	-2.629 %	1.639 %	6.239 %
Concentration RSD	114.5 %	10.4 %	119.1 %	2.8 %	88.6 %	19.4 %	8.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	90.4661 %	102.5533 %	97.8168 %	77.6056 %	102.1404 %	93.3941 %	0.0009 ppm
Concentration per Run 1	88.6597 %	102.6031 %	98.0913 %	74.2582 %	102.2181 %	93.3077 %	0.0013 ppm
Concentration per Run 2	91.4001 %	102.5587 %	97.7400 %	78.6301 %	102.1741 %	93.5165 %	0.0006 ppm
Concentration per Run 3	91.3385 %	102.4982 %	97.6191 %	79.9285 %	102.0290 %	93.3581 %	0.0008 ppm
Recovery Percentage 1							9.184 %
Concentration RSD	1.7 %	0.1 %	0.3 %	3.8 %	0.1 %	0.1 %	39.6 %

ICP DataTrace 6

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LabBook: WG1936225_06192024T6.imexp

Sample: INSTRUMENT SHUT OFF
Analysis started at: 6/19/2024 12:34:12 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5224 ppm	0.4683 ppm	0.5091 ppm	0.4904 ppm	0.4836 ppm	0.5254 ppm	0.5412 ppm
Concentration per Run 1	0.5072 ppm	0.4799 ppm	0.5112 ppm	0.4922 ppm	0.4970 ppm	0.5412 ppm	0.5568 ppm
Concentration per Run 2	0.0000 ppm	0.4614 ppm	0.5086 ppm	0.4903 ppm	0.4802 ppm	0.5211 ppm	0.5366 ppm
Concentration per Run 3	0.5376 ppm	0.4637 ppm	0.5076 ppm	0.4887 ppm	0.4734 ppm	0.5140 ppm	0.5302 ppm
Recovery Percentage 1	104.484 %	93.665 %	101.821 %	98.080 %	96.711 %	105.089 %	108.242 %
Concentration RSD	4.1 %	2.2 %	0.4 %	0.4 %	2.5 %	2.7 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5016 ppm	0.4834 ppm	0.5047 ppm	0.4964 ppm	0.5703 ppm	5.5725 ppm	0.5322 ppm
Concentration per Run 1	0.5023 ppm	0.4843 ppm	0.4902 ppm	0.4828 ppm	0.5856 ppm	5.6950 ppm	0.5170 ppm
Concentration per Run 2	0.5015 ppm	0.4831 ppm	0.0000 ppm	0.0000 ppm	0.5652 ppm	5.5452 ppm	0.0000 ppm
Concentration per Run 3	0.5011 ppm	0.4829 ppm	0.5192 ppm	0.5100 ppm	0.5599 ppm	5.4772 ppm	0.5475 ppm
Recovery Percentage 1	100.327 %	96.687 %	100.936 %	99.280 %	114.053 %	111.449 %	106.447 %
Concentration RSD	0.1 %	0.2 %	4.1 %	3.9 %	2.4 %	2.0 %	4.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5719 ppm	0.5283 ppm	10.2317 ppm	0.4950 ppm	0.5170 ppm	0.5249 ppm	0.5413 ppm
Concentration per Run 1	0.5872 ppm	0.5283 ppm	10.4915 ppm	0.4960 ppm	0.5179 ppm	0.5266 ppm	0.5443 ppm
Concentration per Run 2	0.5680 ppm	0.5277 ppm	10.1732 ppm	0.4940 ppm	0.5170 ppm	0.5247 ppm	0.5413 ppm
Concentration per Run 3	0.5604 ppm	0.5288 ppm	10.0304 ppm	0.4950 ppm	0.5159 ppm	0.5235 ppm	0.5383 ppm
Recovery Percentage 1	114.372 %	105.654 %	102.317 %	99.005 %	103.391 %	104.987 %	108.261 %
Concentration RSD	2.4 %	0.1 %	2.3 %	0.2 %	0.2 %	0.3 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0993 ppm	0.5438 ppm	0.4863 ppm	0.5293 ppm	0.5595 ppm	0.5101 ppm	0.5120 ppm
Concentration per Run 1	5.1180 ppm	0.5455 ppm	0.4999 ppm	0.5143 ppm	0.5611 ppm	0.4954 ppm	0.5126 ppm
Concentration per Run 2	5.0924 ppm	0.5427 ppm	0.4832 ppm	0.0000 ppm	0.5588 ppm	0.0000 ppm	0.5117 ppm
Concentration per Run 3	5.0875 ppm	0.5433 ppm	0.4757 ppm	0.5442 ppm	0.5587 ppm	0.5248 ppm	0.5117 ppm
Recovery Percentage 1	97.129 %	108.769 %	97.255 %	105.853 %	111.906 %	102.017 %	102.398 %
Concentration RSD	0.3 %	0.3 %	2.5 %	4.0 %	0.2 %	4.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.8979 %	100.2618 %	106.9274 %	87.4872 %	100.3449 %	97.4482 %	0.4983 ppm
Concentration per Run 1	93.9541 %	98.7026 %	106.9800 %	85.9169 %	100.2552 %	99.7974 %	0.5120 ppm
Concentration per Run 2	100.1877 %	108.6304 %	107.0241 %	87.9669 %	100.4906 %	0.0000 %	0.4956 ppm
Concentration per Run 3	99.5520 %	93.4525 %	106.7781 %	88.5778 %	100.2889 %	95.0989 %	0.4873 ppm
Recovery Percentage 1							99.667 %
Concentration RSD	3.5 %	7.7 %	0.1 %	1.6 %	0.1 %	3.4 %	2.5 %

LabBook: WG1936225_06192024T6.imexp

Sample: INSTRUMENT SHUT OFF
Analysis started at: 6/19/2024 12:40:29 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0032 ppm	0.0018 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 1	0.0001 ppm	0.0022 ppm	0.0011 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	-0.0002 ppm	-0.0029 ppm	0.0022 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 3	0.0002 ppm	-0.0087 ppm	0.0021 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Recovery Percentage 1	0.319 %	-0.001 %	36.456 %	3.979 %	0.338 %	0.645 %	0.001 %
Concentration RSD	742.0 %	171.7 %	33.4 %	4.0 %	66.5 %	42.3 %	21.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0832 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0858 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0009 ppm	0.0718 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0011 ppm	0.0920 ppm	0.0012 ppm
Recovery Percentage 1	1.254 %	0.626 %	2.952 %	1.780 %	0.000 %	3.328 %	0.000 %
Concentration RSD	9.1 %	70.4 %	40.8 %	54.7 %	12.2 %	12.4 %	40.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0007 ppm	0.0105 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	0.0126 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0115 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0021 ppm
Concentration per Run 3	0.0003 ppm	0.0007 ppm	0.0074 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	1.824 %	1.358 %	0.525 %	0.250 %	2.450 %	-0.264 %	15.972 %
Concentration RSD	63.5 %	11.7 %	26.2 %	176.7 %	25.6 %	134.7 %	31.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	-0.0014 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0010 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0004 ppm
Recovery Percentage 1	-0.208 %	0.587 %	0.040 %	-0.447 %	1.526 %	-0.419 %	9.201 %
Concentration RSD	31.8 %	121.5 %	1,358.0 %	218.6 %	90.7 %	209.3 %	13.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.5960 %	100.7565 %	107.2439 %	82.5337 %	101.7041 %	99.5274 %	0.0014 ppm
Concentration per Run 1	96.6813 %	100.8142 %	107.4406 %	78.3763 %	102.1608 %	99.4069 %	0.0021 ppm
Concentration per Run 2	101.0515 %	100.6629 %	107.5362 %	83.7743 %	102.0974 %	99.4411 %	0.0005 ppm
Concentration per Run 3	101.0551 %	100.7925 %	106.7550 %	85.4504 %	100.8540 %	99.7341 %	0.0014 ppm
Recovery Percentage 1							13.626 %
Concentration RSD	2.5 %	0.1 %	0.4 %	4.5 %	0.7 %	0.2 %	58.6 %

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LabBook: WG1936225_06192024T6.imexp

Sample: CCV
Analysis started at: 6/19/2024 12:58:02 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5070 ppm	0.4717 ppm	0.4921 ppm	0.4893 ppm	0.4859 ppm	0.4497 ppm	0.4714 ppm
Concentration per Run 1	0.5074 ppm	0.4822 ppm	0.4934 ppm	0.4887 ppm	0.4983 ppm	0.4306 ppm	0.4501 ppm
Concentration per Run 2	0.5069 ppm	0.4689 ppm	0.4909 ppm	0.4898 ppm	0.4804 ppm	0.4502 ppm	0.4723 ppm
Concentration per Run 3	0.5069 ppm	0.4641 ppm	0.4920 ppm	0.4894 ppm	0.4790 ppm	0.4684 ppm	0.4918 ppm
Recovery Percentage 1	101.409 %	94.344 %	98.423 %	97.858 %	97.178 %	89.950 %	94.284 %
Concentration RSD	0.1 %	2.0 %	0.3 %	0.1 %	2.2 %	4.2 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5034 ppm	0.4783 ppm	0.4702 ppm	0.4796 ppm	0.4894 ppm	4.9193 ppm	0.5036 ppm
Concentration per Run 1	0.5031 ppm	0.4779 ppm	0.4696 ppm	0.4799 ppm	0.4670 ppm	4.7137 ppm	0.5038 ppm
Concentration per Run 2	0.5039 ppm	0.4790 ppm	0.4712 ppm	0.4797 ppm	0.4893 ppm	4.9240 ppm	0.5050 ppm
Concentration per Run 3	0.5032 ppm	0.4780 ppm	0.4699 ppm	0.4791 ppm	0.5120 ppm	5.1202 ppm	0.5018 ppm
Recovery Percentage 1	100.677 %	95.657 %	94.042 %	95.912 %	97.888 %	98.386 %	100.711 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	4.6 %	4.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4984 ppm	0.5440 ppm	9.0078 ppm	0.5025 ppm	0.5313 ppm	0.5477 ppm	0.5498 ppm
Concentration per Run 1	0.4766 ppm	0.5435 ppm	8.6020 ppm	0.5023 ppm	0.5308 ppm	0.5472 ppm	0.5487 ppm
Concentration per Run 2	0.4989 ppm	0.5443 ppm	9.0253 ppm	0.5031 ppm	0.5319 ppm	0.5467 ppm	0.5492 ppm
Concentration per Run 3	0.5198 ppm	0.5444 ppm	9.3960 ppm	0.5022 ppm	0.5310 ppm	0.5492 ppm	0.5514 ppm
Recovery Percentage 1	99.687 %	108.805 %	90.078 %	100.504 %	106.251 %	109.541 %	109.956 %
Concentration RSD	4.3 %	0.1 %	4.4 %	0.1 %	0.1 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0327 ppm	0.5490 ppm	0.4878 ppm	0.5139 ppm	0.5698 ppm	0.4839 ppm	0.4993 ppm
Concentration per Run 1	5.0315 ppm	0.5488 ppm	0.5001 ppm	0.5126 ppm	0.5697 ppm	0.4840 ppm	0.4988 ppm
Concentration per Run 2	5.0379 ppm	0.5487 ppm	0.4819 ppm	0.5149 ppm	0.5705 ppm	0.4838 ppm	0.5003 ppm
Concentration per Run 3	5.0289 ppm	0.5494 ppm	0.4814 ppm	0.5141 ppm	0.5692 ppm	0.4839 ppm	0.4988 ppm
Recovery Percentage 1	95.862 %	109.791 %	97.561 %	102.771 %	113.960 %	96.782 %	99.863 %
Concentration RSD	0.1 %	0.1 %	2.2 %	0.2 %	0.1 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.3697 %	95.1646 %	107.3539 %	101.3993 %	97.5760 %	101.7198 %	0.5109 ppm
Concentration per Run 1	94.3736 %	95.2471 %	107.3733 %	106.2904 %	97.7198 %	101.8912 %	0.5228 ppm
Concentration per Run 2	97.4789 %	95.1970 %	107.4167 %	101.0440 %	97.5043 %	101.7015 %	0.5064 ppm
Concentration per Run 3	97.2565 %	95.0497 %	107.2717 %	96.8634 %	97.5039 %	101.5666 %	0.5035 ppm
Recovery Percentage 1							102.178 %
Concentration RSD	1.8 %	0.1 %	0.1 %	4.7 %	0.1 %	0.2 %	2.0 %

LabBook: WG1936225_06192024T6.imexp

Sample: CCB
Analysis started at: 6/19/2024 1:04:20 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0024 ppm	0.0000 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0055 ppm
Concentration per Run 1	0.0000 ppm	-0.0026 ppm	0.0003 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0079 ppm
Concentration per Run 2	-0.0005 ppm	-0.0003 ppm	-0.0001 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0035 ppm
Concentration per Run 3	0.0004 ppm	-0.0043 ppm	-0.0002 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0051 ppm
Recovery Percentage 1	-0.369 %	0.000 %	0.225 %	3.954 %	0.412 %	1.644 %	0.001 %
Concentration RSD	1,725.6 %	85.0 %	2,226.7 %	11.5 %	160.3 %	32.0 %	40.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0509 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0472 ppm	0.0024 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0021 ppm	0.0670 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0383 ppm	0.0016 ppm
Recovery Percentage 1	1.102 %	0.182 %	1.436 %	4.252 %	0.001 %	2.035 %	0.000 %
Concentration RSD	39.0 %	185.0 %	36.8 %	13.4 %	85.8 %	28.9 %	40.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0006 ppm	0.0074 ppm	-0.0001 ppm	-0.0003 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0043 ppm	-0.0002 ppm	0.0002 ppm	-0.0008 ppm	0.0013 ppm
Concentration per Run 2	0.0004 ppm	0.0006 ppm	0.0130 ppm	0.0001 ppm	-0.0004 ppm	-0.0005 ppm	0.0009 ppm
Concentration per Run 3	0.0003 ppm	0.0005 ppm	0.0049 ppm	-0.0002 ppm	-0.0008 ppm	-0.0007 ppm	0.0010 ppm
Recovery Percentage 1	2.379 %	1.242 %	0.371 %	-0.364 %	-3.344 %	-1.316 %	10.586 %
Concentration RSD	80.5 %	15.3 %	65.4 %	169.2 %	150.6 %	21.1 %	17.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 1	-0.0020 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0015 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	-0.0011 ppm	-0.0003 ppm	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0014 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm
Recovery Percentage 1	-0.298 %	0.194 %	-0.383 %	-2.163 %	-2.138 %	1.542 %	6.691 %
Concentration RSD	31.9 %	321.7 %	36.1 %	58.1 %	230.7 %	66.3 %	11.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.3614 %	96.0199 %	108.5384 %	84.3999 %	99.5923 %	100.5648 %	0.0009 ppm
Concentration per Run 1	94.1730 %	96.1339 %	108.8101 %	80.1889 %	99.6105 %	100.3220 %	0.0009 ppm
Concentration per Run 2	97.6715 %	95.9653 %	108.3369 %	85.6763 %	99.6223 %	100.6190 %	0.0012 ppm
Concentration per Run 3	97.2398 %	95.9606 %	108.4683 %	87.3347 %	99.5442 %	100.7533 %	0.0005 ppm
Recovery Percentage 1							8.625 %
Concentration RSD	2.0 %	0.1 %	0.2 %	4.4 %	0.0 %	0.2 %	40.7 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935744-1 WG1935744
Analysis started at: 6/19/2024 1:11:10 PM
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0012 ppm	0.0009 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 1	-0.0002 ppm	-0.0006 ppm	0.0010 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0172 ppm
Concentration per Run 2	-0.0004 ppm	0.0016 ppm	0.0005 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0125 ppm
Concentration per Run 3	-0.0001 ppm	0.0024 ppm	0.0011 ppm	0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0112 ppm
Recovery Percentage 1	-3.281 %	0.000 %	17.116 %	3.394 %	-0.487 %	0.765 %	0.003 %
Concentration RSD	76.3 %	136.0 %	34.1 %	18.3 %	143.8 %	67.5 %	23.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0532 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0618 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0004 ppm	0.0648 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0330 ppm	0.0037 ppm
Recovery Percentage 1	1.047 %	0.072 %	0.930 %	8.422 %	0.000 %	2.127 %	0.001 %
Concentration RSD	8.8 %	753.7 %	98.6 %	2.2 %	135.7 %	33.0 %	13.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0001 ppm	-0.0010 ppm	0.0002 ppm	0.0002 ppm	-0.0018 ppm	0.0003 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	-0.0022 ppm	0.0001 ppm	-0.0001 ppm	-0.0019 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0056 ppm	0.0003 ppm	0.0001 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0050 ppm	0.0001 ppm	0.0007 ppm	-0.0022 ppm	0.0006 ppm
Recovery Percentage 1	2.179 %	0.143 %	-0.048 %	0.616 %	2.494 %	-3.655 %	3.020 %
Concentration RSD	95.7 %	91.4 %	568.4 %	100.1 %	176.9 %	20.9 %	136.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0004 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	-0.0008 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm	0.0001 ppm	0.0005 ppm
Recovery Percentage 1	0.082 %	-0.335 %	0.178 %	-1.381 %	-0.162 %	1.374 %	11.508 %
Concentration RSD	67.9 %	41.5 %	98.6 %	68.7 %	2,863.0 %	90.8 %	4.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.2205 %	96.2820 %	109.9832 %	79.7215 %	99.4938 %	98.8434 %	-0.0005 ppm
Concentration per Run 1	97.2743 %	96.0499 %	110.0838 %	75.9055 %	98.8040 %	98.1961 %	0.0000 ppm
Concentration per Run 2	98.8142 %	96.1984 %	109.9544 %	80.4996 %	99.4953 %	98.7521 %	-0.0004 ppm
Concentration per Run 3	98.5731 %	96.5978 %	109.9115 %	82.7594 %	100.1820 %	99.5822 %	-0.0010 ppm
Recovery Percentage 1							-4.720 %
Concentration RSD	0.8 %	0.3 %	0.1 %	4.4 %	0.7 %	0.7 %	99.8 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935744-2 WG1935744
Analysis started at: 6/19/2024 1:17:50 PM
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0520 ppm	2.0112 ppm	0.1191 ppm	0.9574 ppm	2.0011 ppm	0.0536 ppm	11.2542 ppm
Concentration per Run 1	0.0522 ppm	2.0676 ppm	0.1196 ppm	0.9575 ppm	2.0576 ppm	0.0569 ppm	11.9785 ppm
Concentration per Run 2	0.0521 ppm	1.9891 ppm	0.1188 ppm	0.9592 ppm	1.9771 ppm	0.0526 ppm	11.0270 ppm
Concentration per Run 3	0.0518 ppm	1.9768 ppm	0.1191 ppm	0.9554 ppm	1.9685 ppm	0.0514 ppm	10.7570 ppm
Concentration RSD	0.3 %	2.4 %	0.3 %	0.2 %	2.5 %	5.4 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0556 ppm	0.4691 ppm	0.1877 ppm	0.2537 ppm	1.1549 ppm	11.8643 ppm	10.0223 ppm
Concentration per Run 1	0.0556 ppm	0.4689 ppm	0.1877 ppm	0.2538 ppm	1.2250 ppm	12.6009 ppm	10.0063 ppm
Concentration per Run 2	0.0556 ppm	0.4703 ppm	0.1879 ppm	0.2539 ppm	1.1326 ppm	11.6439 ppm	10.0391 ppm
Concentration per Run 3	0.0555 ppm	0.4683 ppm	0.1877 ppm	0.2532 ppm	1.1072 ppm	11.3481 ppm	10.0217 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %	5.4 %	5.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6068 ppm	1.0945 ppm	11.1584 ppm	0.5051 ppm	0.5831 ppm	0.5725 ppm	0.1352 ppm
Concentration per Run 1	0.6444 ppm	1.0857 ppm	11.8451 ppm	0.5053 ppm	0.5833 ppm	0.5697 ppm	0.1360 ppm
Concentration per Run 2	0.5947 ppm	1.0972 ppm	10.9388 ppm	0.5062 ppm	0.5842 ppm	0.5757 ppm	0.1340 ppm
Concentration per Run 3	0.5812 ppm	1.1007 ppm	10.6914 ppm	0.5037 ppm	0.5816 ppm	0.5722 ppm	0.1355 ppm
Concentration RSD	5.5 %	0.7 %	5.4 %	0.3 %	0.2 %	0.5 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0056 ppm	1.0735 ppm	0.9620 ppm	1.0354 ppm	0.1404 ppm	0.4841 ppm	0.4930 ppm
Concentration per Run 1	1.0054 ppm	1.0740 ppm	0.9893 ppm	1.0361 ppm	0.1397 ppm	0.4842 ppm	0.4938 ppm
Concentration per Run 2	1.0090 ppm	1.0752 ppm	0.9496 ppm	1.0351 ppm	0.1410 ppm	0.4845 ppm	0.4930 ppm
Concentration per Run 3	1.0024 ppm	1.0713 ppm	0.9470 ppm	1.0348 ppm	0.1405 ppm	0.4837 ppm	0.4921 ppm
Concentration RSD	0.3 %	0.2 %	2.5 %	0.1 %	0.5 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.2127 %	91.7812 %	106.1497 %	85.2303 %	93.6166 %	100.0519 %	-0.0026 ppm
Concentration per Run 1	93.2951 %	91.7230 %	106.3521 %	80.6971 %	93.5937 %	99.8771 %	-0.0020 ppm
Concentration per Run 2	95.9841 %	91.6710 %	106.0529 %	86.4201 %	93.3958 %	99.9610 %	-0.0033 ppm
Concentration per Run 3	96.3591 %	91.9496 %	106.0440 %	88.5737 %	93.8602 %	100.3176 %	-0.0026 ppm
Concentration RSD	1.8 %	0.2 %	0.2 %	4.8 %	0.2 %	0.2 %	23.4 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: L2432871-01 WG1935744
Analysis started at: 6/19/2024 1:24:09 PM
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.3701 ppm	0.0041 ppm	0.8213 ppm	0.0308 ppm	0.0001 ppm	50.1940 ppm
Concentration per Run 1	-0.0002 ppm	0.3722 ppm	0.0042 ppm	0.8244 ppm	0.0310 ppm	0.0001 ppm	52.7340 ppm
Concentration per Run 2	-0.0003 ppm	0.3653 ppm	0.0038 ppm	0.8210 ppm	0.0308 ppm	0.0001 ppm	49.4924 ppm
Concentration per Run 3	-0.0004 ppm	0.3727 ppm	0.0045 ppm	0.8184 ppm	0.0307 ppm	0.0001 ppm	48.3554 ppm
Concentration RSD	17.2 %	1.1 %	9.2 %	0.4 %	0.5 %	10.6 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0142 ppm	0.5219 ppm	34.1089 ppm	22.0201 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0143 ppm	0.5444 ppm	35.7103 ppm	22.0900 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0010 ppm	0.0141 ppm	0.5171 ppm	33.6572 ppm	22.0575 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0142 ppm	0.5043 ppm	32.9591 ppm	21.9128 ppm
Concentration RSD	16.3 %	36.2 %	5.1 %	0.8 %	3.9 %	4.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0733 ppm	0.0172 ppm	395.1013 ppm	0.0017 ppm	0.0006 ppm	0.0030 ppm	0.0008 ppm
Concentration per Run 1	0.0771 ppm	0.0176 ppm	420.8379 ppm	0.0020 ppm	0.0008 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 2	0.0721 ppm	0.0172 ppm	387.7527 ppm	0.0017 ppm	0.0006 ppm	0.0032 ppm	0.0018 ppm
Concentration per Run 3	0.0707 ppm	0.0167 ppm	376.7133 ppm	0.0014 ppm	0.0003 ppm	0.0029 ppm	-0.0006 ppm
Concentration RSD	4.6 %	2.5 %	5.8 %	17.7 %	41.9 %	4.3 %	159.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1156 ppm	0.0004 ppm	0.4357 ppm	0.0190 ppm	-0.0004 ppm	0.0072 ppm	0.0213 ppm
Concentration per Run 1	3.1282 ppm	0.0010 ppm	0.4389 ppm	0.0192 ppm	0.0004 ppm	0.0070 ppm	0.0213 ppm
Concentration per Run 2	3.1117 ppm	0.0002 ppm	0.4340 ppm	0.0189 ppm	-0.0013 ppm	0.0073 ppm	0.0213 ppm
Concentration per Run 3	3.1069 ppm	0.0001 ppm	0.4341 ppm	0.0189 ppm	-0.0004 ppm	0.0072 ppm	0.0214 ppm
Concentration RSD	0.4 %	124.1 %	0.6 %	0.9 %	200.8 %	1.6 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.2023 %	81.9172 %	97.1040 %	82.0649 %	79.3584 %	88.8092 %	0.0087 ppm
Concentration per Run 1	93.6980 %	81.9409 %	97.0237 %	78.2792 %	79.0670 %	88.4845 %	0.0090 ppm
Concentration per Run 2	94.7233 %	81.9067 %	97.0021 %	83.2619 %	79.4590 %	88.8261 %	0.0084 ppm
Concentration per Run 3	94.1856 %	81.9039 %	97.2862 %	84.6537 %	79.5492 %	89.1170 %	0.0086 ppm
Concentration RSD	0.5 %	0.0 %	0.2 %	4.1 %	0.3 %	0.4 %	3.5 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935744-3 WG1935744
Analysis started at: 6/19/2024 1:30:50 PM
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0545 ppm	2.3896 ppm	0.1306 ppm	1.8580 ppm	2.0275 ppm	0.0526 ppm	59.4440 ppm
Concentration per Run 1	0.0547 ppm	2.4157 ppm	0.1291 ppm	1.8519 ppm	2.0440 ppm	0.0552 ppm	62.6787 ppm
Concentration per Run 2	0.0539 ppm	2.3694 ppm	0.1290 ppm	1.8524 ppm	2.0151 ppm	0.0517 ppm	58.4418 ppm
Concentration per Run 3	0.0549 ppm	2.3837 ppm	0.1337 ppm	1.8697 ppm	2.0233 ppm	0.0508 ppm	57.2115 ppm
Concentration RSD	1.0 %	1.0 %	2.1 %	0.5 %	0.7 %	4.4 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0589 ppm	0.4856 ppm	0.1865 ppm	0.2732 ppm	1.6024 ppm	45.0882 ppm	31.2777 ppm
Concentration per Run 1	0.0588 ppm	0.4847 ppm	0.1867 ppm	0.2737 ppm	1.6722 ppm	47.2385 ppm	31.3571 ppm
Concentration per Run 2	0.0587 ppm	0.4843 ppm	0.1870 ppm	0.2730 ppm	1.5834 ppm	44.3980 ppm	31.2594 ppm
Concentration per Run 3	0.0591 ppm	0.4877 ppm	0.1859 ppm	0.2727 ppm	1.5516 ppm	43.6281 ppm	31.2166 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %	0.2 %	3.9 %	4.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6553 ppm	1.1972 ppm	392.5696 ppm	0.5240 ppm	0.5929 ppm	0.6564 ppm	0.1443 ppm
Concentration per Run 1	0.6880 ppm	1.1843 ppm	414.5183 ppm	0.5229 ppm	0.5914 ppm	0.6552 ppm	0.1452 ppm
Concentration per Run 2	0.6460 ppm	1.1941 ppm	386.2881 ppm	0.5226 ppm	0.5921 ppm	0.6546 ppm	0.1429 ppm
Concentration per Run 3	0.6318 ppm	1.2132 ppm	376.9025 ppm	0.5265 ppm	0.5952 ppm	0.6592 ppm	0.1448 ppm
Concentration RSD	4.5 %	1.2 %	5.0 %	0.4 %	0.3 %	0.4 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.2588 ppm	1.1220 ppm	1.4005 ppm	1.0749 ppm	0.1327 ppm	0.4935 ppm	0.5458 ppm
Concentration per Run 1	4.2507 ppm	1.1175 ppm	1.4132 ppm	1.0763 ppm	0.1328 ppm	0.4936 ppm	0.5447 ppm
Concentration per Run 2	4.2441 ppm	1.1207 ppm	1.3918 ppm	1.0747 ppm	0.1325 ppm	0.4940 ppm	0.5450 ppm
Concentration per Run 3	4.2817 ppm	1.1278 ppm	1.3966 ppm	1.0736 ppm	0.1328 ppm	0.4930 ppm	0.5478 ppm
Concentration RSD	0.5 %	0.5 %	0.8 %	0.1 %	0.1 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.0592 %	80.9856 %	95.9871 %	84.6706 %	78.5371 %	89.9582 %	0.0076 ppm
Concentration per Run 1	92.1919 %	81.1258 %	96.2105 %	80.6549 %	78.7310 %	89.8248 %	0.0071 ppm
Concentration per Run 2	93.7474 %	81.0157 %	96.2948 %	85.8317 %	78.7249 %	90.0273 %	0.0079 ppm
Concentration per Run 3	93.2383 %	80.8154 %	95.4561 %	87.5251 %	78.1555 %	90.0226 %	0.0079 ppm
Concentration RSD	0.9 %	0.2 %	0.5 %	4.2 %	0.4 %	0.1 %	6.3 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935744-4 WG1935744
Analysis started at: 6/19/2024 1:37:18 PM
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.3786 ppm	0.0039 ppm	0.8328 ppm	0.0316 ppm	0.0001 ppm	50.3709 ppm
Concentration per Run 1	-0.0002 ppm	0.3782 ppm	0.0026 ppm	0.8352 ppm	0.0319 ppm	0.0000 ppm	52.8749 ppm
Concentration per Run 2	-0.0004 ppm	0.3807 ppm	0.0053 ppm	0.8347 ppm	0.0314 ppm	0.0001 ppm	49.7764 ppm
Concentration per Run 3	-0.0001 ppm	0.3769 ppm	0.0038 ppm	0.8286 ppm	0.0315 ppm	0.0001 ppm	48.4613 ppm
Concentration RSD	61.8 %	0.5 %	35.3 %	0.4 %	0.9 %	57.0 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0143 ppm	0.5223 ppm	34.6061 ppm	22.2235 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0141 ppm	0.5458 ppm	36.1973 ppm	22.2884 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0143 ppm	0.5173 ppm	34.1768 ppm	22.2864 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0145 ppm	0.5037 ppm	33.4441 ppm	22.0958 ppm
Concentration RSD	18.6 %	16.7 %	16.5 %	1.2 %	4.1 %	4.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0738 ppm	0.0177 ppm	395.2074 ppm	0.0018 ppm	0.0004 ppm	0.0019 ppm	0.0010 ppm
Concentration per Run 1	0.0774 ppm	0.0181 ppm	417.7457 ppm	0.0018 ppm	-0.0001 ppm	0.0016 ppm	0.0013 ppm
Concentration per Run 2	0.0725 ppm	0.0175 ppm	387.9579 ppm	0.0018 ppm	0.0005 ppm	0.0025 ppm	0.0005 ppm
Concentration per Run 3	0.0715 ppm	0.0174 ppm	379.9185 ppm	0.0018 ppm	0.0007 ppm	0.0016 ppm	0.0013 ppm
Concentration RSD	4.3 %	2.2 %	5.0 %	1.2 %	114.2 %	27.5 %	46.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1617 ppm	0.0009 ppm	0.4433 ppm	0.0192 ppm	-0.0005 ppm	0.0072 ppm	0.0207 ppm
Concentration per Run 1	3.1679 ppm	0.0010 ppm	0.4480 ppm	0.0192 ppm	-0.0006 ppm	0.0071 ppm	0.0208 ppm
Concentration per Run 2	3.1638 ppm	0.0010 ppm	0.4412 ppm	0.0191 ppm	-0.0010 ppm	0.0071 ppm	0.0207 ppm
Concentration per Run 3	3.1534 ppm	0.0006 ppm	0.4406 ppm	0.0193 ppm	0.0003 ppm	0.0073 ppm	0.0206 ppm
Concentration RSD	0.2 %	28.4 %	0.9 %	0.6 %	143.9 %	1.2 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.4557 %	81.2464 %	96.1508 %	82.3312 %	78.5364 %	88.7616 %	0.0098 ppm
Concentration per Run 1	92.9059 %	81.1563 %	96.0070 %	78.7135 %	78.3099 %	88.4325 %	0.0099 ppm
Concentration per Run 2	93.6438 %	81.2953 %	96.1822 %	83.1992 %	78.3676 %	88.8023 %	0.0096 ppm
Concentration per Run 3	93.8175 %	81.2876 %	96.2632 %	85.0811 %	78.9316 %	89.0499 %	0.0098 ppm
Concentration RSD	0.5 %	0.1 %	0.1 %	4.0 %	0.4 %	0.4 %	2.0 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935744-5 WG1935744
Analysis started at: 6/19/2024 1:43:59 PM
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0507 ppm	2.2691 ppm	0.1260 ppm	1.8014 ppm	1.9222 ppm	0.0494 ppm	57.3409 ppm
Concentration per Run 1	0.0509 ppm	2.2833 ppm	0.1265 ppm	1.8012 ppm	1.9395 ppm	0.0516 ppm	60.1210 ppm
Concentration per Run 2	0.0504 ppm	2.2563 ppm	0.1259 ppm	1.8003 ppm	1.9061 ppm	0.0490 ppm	56.7818 ppm
Concentration per Run 3	0.0507 ppm	2.2678 ppm	0.1256 ppm	1.8026 ppm	1.9209 ppm	0.0476 ppm	55.1201 ppm
Concentration RSD	0.4 %	0.6 %	0.4 %	0.1 %	0.9 %	4.1 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0549 ppm	0.4536 ppm	0.1760 ppm	0.2589 ppm	1.5304 ppm	43.7473 ppm	30.5738 ppm
Concentration per Run 1	0.0551 ppm	0.4547 ppm	0.1756 ppm	0.2592 ppm	1.5934 ppm	45.7478 ppm	30.5480 ppm
Concentration per Run 2	0.0548 ppm	0.4532 ppm	0.1766 ppm	0.2587 ppm	1.5161 ppm	43.3546 ppm	30.6517 ppm
Concentration per Run 3	0.0547 ppm	0.4531 ppm	0.1759 ppm	0.2589 ppm	1.4816 ppm	42.1396 ppm	30.5216 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.1 %	3.7 %	4.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6141 ppm	1.1423 ppm	382.5629 ppm	0.4905 ppm	0.5707 ppm	0.6019 ppm	0.1391 ppm
Concentration per Run 1	0.6422 ppm	1.1342 ppm	399.6254 ppm	0.4912 ppm	0.5720 ppm	0.5984 ppm	0.1403 ppm
Concentration per Run 2	0.6080 ppm	1.1425 ppm	380.9142 ppm	0.4898 ppm	0.5700 ppm	0.6011 ppm	0.1401 ppm
Concentration per Run 3	0.5920 ppm	1.1502 ppm	367.1490 ppm	0.4904 ppm	0.5701 ppm	0.6062 ppm	0.1368 ppm
Concentration RSD	4.2 %	0.7 %	4.3 %	0.1 %	0.2 %	0.7 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0348 ppm	1.0839 ppm	1.3549 ppm	1.0276 ppm	0.1278 ppm	0.4605 ppm	0.5087 ppm
Concentration per Run 1	4.0410 ppm	1.0868 ppm	1.3658 ppm	1.0282 ppm	0.1295 ppm	0.4608 ppm	0.5114 ppm
Concentration per Run 2	4.0276 ppm	1.0810 ppm	1.3447 ppm	1.0280 ppm	0.1267 ppm	0.4608 ppm	0.5081 ppm
Concentration per Run 3	4.0358 ppm	1.0839 ppm	1.3540 ppm	1.0264 ppm	0.1273 ppm	0.4599 ppm	0.5066 ppm
Concentration RSD	0.2 %	0.3 %	0.8 %	0.1 %	1.2 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.8685 %	80.9322 %	95.7990 %	84.6241 %	78.3810 %	89.9632 %	0.0076 ppm
Concentration per Run 1	92.4077 %	80.9627 %	95.8697 %	80.9541 %	78.3585 %	89.8130 %	0.0077 ppm
Concentration per Run 2	93.3013 %	80.7600 %	95.7669 %	85.2177 %	78.3861 %	89.8170 %	0.0071 ppm
Concentration per Run 3	92.8964 %	81.0738 %	95.7605 %	87.7005 %	78.3984 %	90.2596 %	0.0081 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	4.0 %	0.0 %	0.3 %	6.8 %

LabBook: WG1936225_06192024T6.imexp

Sample: WG1935744-6D5 WG1935744
Analysis started at: 6/19/2024 1:50:26 PM
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0781 ppm	0.0010 ppm	0.1595 ppm	0.0064 ppm	0.0001 ppm	9.8059 ppm
Concentration per Run 1	-0.0001 ppm	0.0790 ppm	0.0009 ppm	0.1603 ppm	0.0066 ppm	0.0001 ppm	10.3507 ppm
Concentration per Run 2	-0.0004 ppm	0.0749 ppm	0.0010 ppm	0.1595 ppm	0.0063 ppm	0.0001 ppm	9.6558 ppm
Concentration per Run 3	0.0001 ppm	0.0805 ppm	0.0013 ppm	0.1587 ppm	0.0063 ppm	0.0001 ppm	9.4112 ppm
Concentration RSD	258.8 %	3.7 %	18.1 %	0.5 %	2.5 %	22.3 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0034 ppm	0.1036 ppm	6.8099 ppm	4.4246 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0033 ppm	0.1101 ppm	7.1584 ppm	4.4431 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0035 ppm	0.1020 ppm	6.6623 ppm	4.4092 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0033 ppm	0.0986 ppm	6.6091 ppm	4.4215 ppm
Concentration RSD	23.4 %	81.8 %	186.7 %	3.2 %	5.7 %	4.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0145 ppm	0.0050 ppm	80.7298 ppm	0.0007 ppm	-0.0001 ppm	0.0017 ppm	0.0007 ppm
Concentration per Run 1	0.0151 ppm	0.0053 ppm	85.1305 ppm	0.0004 ppm	0.0001 ppm	0.0014 ppm	0.0018 ppm
Concentration per Run 2	0.0142 ppm	0.0050 ppm	79.2264 ppm	0.0008 ppm	-0.0005 ppm	0.0018 ppm	-0.0009 ppm
Concentration per Run 3	0.0140 ppm	0.0046 ppm	77.8325 ppm	0.0008 ppm	0.0000 ppm	0.0019 ppm	0.0012 ppm
Concentration RSD	4.2 %	6.6 %	4.8 %	31.6 %	254.0 %	15.6 %	201.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5689 ppm	0.0021 ppm	0.0886 ppm	0.0038 ppm	-0.0002 ppm	0.0014 ppm	0.0045 ppm
Concentration per Run 1	0.5709 ppm	0.0028 ppm	0.0906 ppm	0.0038 ppm	-0.0006 ppm	0.0014 ppm	0.0045 ppm
Concentration per Run 2	0.5697 ppm	0.0019 ppm	0.0873 ppm	0.0036 ppm	-0.0001 ppm	0.0013 ppm	0.0045 ppm
Concentration per Run 3	0.5661 ppm	0.0016 ppm	0.0878 ppm	0.0038 ppm	0.0003 ppm	0.0014 ppm	0.0045 ppm
Concentration RSD	0.4 %	28.5 %	2.0 %	2.6 %	300.2 %	3.7 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.9161 %	86.2821 %	103.3423 %	85.6397 %	88.6865 %	96.7986 %	0.0050 ppm
Concentration per Run 1	91.4647 %	86.4452 %	103.1750 %	81.5096 %	88.3663 %	96.6704 %	0.0045 ppm
Concentration per Run 2	93.5236 %	86.1969 %	103.3663 %	86.5967 %	88.5975 %	96.8257 %	0.0047 ppm
Concentration per Run 3	93.7600 %	86.2040 %	103.4855 %	88.8127 %	89.0956 %	96.8997 %	0.0058 ppm
Concentration RSD	1.4 %	0.2 %	0.2 %	4.4 %	0.4 %	0.1 %	13.8 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: CCV
Analysis started at: 6/19/2024 1:57:00 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5006 ppm	0.5024 ppm	0.4727 ppm	0.4898 ppm	0.5103 ppm	0.4956 ppm	0.5183 ppm
Concentration per Run 1	0.5018 ppm	0.5203 ppm	0.4692 ppm	0.4866 ppm	0.5262 ppm	0.5112 ppm	0.5368 ppm
Concentration per Run 2	0.5001 ppm	0.4960 ppm	0.4797 ppm	0.4946 ppm	0.5030 ppm	0.4889 ppm	0.5094 ppm
Concentration per Run 3	0.5000 ppm	0.4910 ppm	0.4694 ppm	0.4882 ppm	0.5017 ppm	0.4867 ppm	0.5089 ppm
Recovery Percentage 1	100.121 %	100.485 %	94.548 %	97.961 %	102.058 %	99.116 %	103.668 %
Concentration RSD	0.2 %	3.1 %	1.3 %	0.9 %	2.7 %	2.7 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4986 ppm	0.4703 ppm	0.4575 ppm	0.4869 ppm	0.5280 ppm	5.6708 ppm	0.5065 ppm
Concentration per Run 1	0.4945 ppm	0.4668 ppm	0.4575 ppm	0.4888 ppm	0.5440 ppm	5.8094 ppm	0.5084 ppm
Concentration per Run 2	0.5035 ppm	0.4750 ppm	0.4574 ppm	0.4865 ppm	0.5222 ppm	5.5999 ppm	0.5055 ppm
Concentration per Run 3	0.4976 ppm	0.4691 ppm	0.4575 ppm	0.4855 ppm	0.5180 ppm	5.6030 ppm	0.5055 ppm
Recovery Percentage 1	99.711 %	94.060 %	91.497 %	97.387 %	105.609 %	113.415 %	101.294 %
Concentration RSD	0.9 %	0.9 %	0.0 %	0.4 %	2.6 %	2.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5438 ppm	0.5608 ppm	10.2451 ppm	0.5078 ppm	0.5472 ppm	0.5776 ppm	0.5559 ppm
Concentration per Run 1	0.5631 ppm	0.5561 ppm	10.5408 ppm	0.5042 ppm	0.5429 ppm	0.5744 ppm	0.5498 ppm
Concentration per Run 2	0.5360 ppm	0.5657 ppm	10.1409 ppm	0.5126 ppm	0.5523 ppm	0.5828 ppm	0.5662 ppm
Concentration per Run 3	0.5323 ppm	0.5605 ppm	10.0535 ppm	0.5066 ppm	0.5465 ppm	0.5757 ppm	0.5516 ppm
Recovery Percentage 1	108.763 %	112.155 %	102.451 %	101.561 %	109.442 %	115.524 %	111.178 %
Concentration RSD	3.1 %	0.9 %	2.5 %	0.8 %	0.9 %	0.8 %	1.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9972 ppm	0.5555 ppm	0.4993 ppm	0.5168 ppm	0.5803 ppm	0.4672 ppm	0.4779 ppm
Concentration per Run 1	4.9687 ppm	0.5513 ppm	0.5145 ppm	0.5178 ppm	0.5763 ppm	0.4680 ppm	0.4735 ppm
Concentration per Run 2	5.0432 ppm	0.5604 ppm	0.4923 ppm	0.5162 ppm	0.5854 ppm	0.4668 ppm	0.4826 ppm
Concentration per Run 3	4.9797 ppm	0.5550 ppm	0.4910 ppm	0.5163 ppm	0.5793 ppm	0.4669 ppm	0.4776 ppm
Recovery Percentage 1	95.185 %	111.106 %	99.851 %	103.355 %	116.067 %	93.446 %	95.576 %
Concentration RSD	0.8 %	0.8 %	2.6 %	0.2 %	0.8 %	0.2 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.6815 %	90.1619 %	105.5984 %	91.5504 %	92.6551 %	100.9654 %	0.5387 ppm
Concentration per Run 1	89.8329 %	90.0652 %	106.3241 %	88.8190 %	93.1590 %	100.7071 %	0.5553 ppm
Concentration per Run 2	93.6634 %	90.3118 %	104.3321 %	92.3596 %	92.0097 %	101.0868 %	0.5316 ppm
Concentration per Run 3	94.5483 %	90.1086 %	106.1391 %	93.4726 %	92.7967 %	101.1022 %	0.5292 ppm
Recovery Percentage 1							107.739 %
Concentration RSD	2.7 %	0.1 %	1.0 %	2.7 %	0.6 %	0.2 %	2.7 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: CCB
Analysis started at: 6/19/2024 2:03:18 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0015 ppm	0.0011 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0060 ppm
Concentration per Run 1	0.0000 ppm	-0.0026 ppm	0.0011 ppm	0.0020 ppm	0.0001 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0012 ppm	0.0022 ppm	0.0000 ppm	0.0001 ppm	0.0073 ppm
Concentration per Run 3	-0.0003 ppm	-0.0019 ppm	0.0012 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0045 ppm
Recovery Percentage 1	-2.072 %	0.000 %	22.847 %	6.819 %	0.420 %	1.518 %	0.001 %
Concentration RSD	123.8 %	86.7 %	3.9 %	6.3 %	115.3 %	5.9 %	24.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0004 ppm	0.1344 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm	0.1289 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0008 ppm	0.1324 ppm	0.0024 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0006 ppm	0.1420 ppm	-0.0010 ppm
Recovery Percentage 1	1.301 %	0.103 %	0.780 %	7.871 %	0.000 %	5.377 %	0.000 %
Concentration RSD	38.0 %	147.0 %	460.4 %	10.0 %	106.8 %	5.1 %	153.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0008 ppm	0.0897 ppm	0.0001 ppm	0.0002 ppm	-0.0009 ppm	0.0016 ppm
Concentration per Run 1	0.0004 ppm	0.0009 ppm	0.0929 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0018 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	0.0894 ppm	0.0002 ppm	0.0000 ppm	-0.0014 ppm	0.0020 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0870 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0009 ppm
Recovery Percentage 1	1.145 %	1.587 %	4.487 %	0.576 %	1.892 %	-1.819 %	15.709 %
Concentration RSD	268.8 %	14.5 %	3.3 %	66.1 %	108.0 %	63.8 %	39.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0008 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0011 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0009 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0010 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0002 ppm	0.0003 ppm
Recovery Percentage 1	-0.180 %	0.941 %	-0.393 %	0.242 %	-3.649 %	0.991 %	5.684 %
Concentration RSD	7.2 %	54.5 %	53.5 %	574.1 %	57.1 %	108.5 %	19.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.4667 %	91.0902 %	107.6199 %	85.7243 %	95.5465 %	100.5061 %	0.0016 ppm
Concentration per Run 1	90.3955 %	91.2652 %	107.6454 %	81.6490 %	95.7258 %	100.6061 %	0.0012 ppm
Concentration per Run 2	93.4952 %	91.0605 %	107.8592 %	87.0000 %	95.6775 %	100.4991 %	0.0019 ppm
Concentration per Run 3	93.5094 %	90.9448 %	107.3552 %	88.5239 %	95.2361 %	100.4132 %	0.0017 ppm
Recovery Percentage 1							15.877 %
Concentration RSD	1.9 %	0.2 %	0.2 %	4.2 %	0.3 %	0.1 %	21.5 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1936282-1 WG1936282
Analysis started at: 6/19/2024 2:30:38 PM
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0035 ppm	0.0008 ppm	0.0037 ppm	0.0001 ppm	0.0001 ppm	0.0490 ppm
Concentration per Run 1	-0.0002 ppm	0.0070 ppm	0.0003 ppm	0.0039 ppm	0.0001 ppm	0.0001 ppm	0.0520 ppm
Concentration per Run 2	-0.0002 ppm	-0.0026 ppm	0.0006 ppm	0.0035 ppm	0.0001 ppm	0.0001 ppm	0.0490 ppm
Concentration per Run 3	-0.0001 ppm	0.0060 ppm	0.0015 ppm	0.0036 ppm	0.0001 ppm	0.0001 ppm	0.0460 ppm
Recovery Percentage 1	-2.249 %	0.001 %	15.640 %	12.196 %	0.930 %	1.476 %	0.010 %
Concentration RSD	34.8 %	153.5 %	80.4 %	5.9 %	43.3 %	30.8 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0015 ppm	0.1690 ppm	0.0059 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0017 ppm	0.1399 ppm	0.0045 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0015 ppm	0.1661 ppm	0.0072 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0013 ppm	0.2010 ppm	0.0060 ppm
Recovery Percentage 1	1.389 %	-0.593 %	2.240 %	10.779 %	0.001 %	6.759 %	0.001 %
Concentration RSD	8.8 %	61.3 %	51.5 %	1.9 %	14.2 %	18.2 %	22.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0002 ppm	133.0099 ppm	0.0002 ppm	-0.0007 ppm	-0.0002 ppm	0.0028 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	136.6187 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0028 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	131.9662 ppm	0.0003 ppm	-0.0012 ppm	0.0003 ppm	0.0024 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	130.4449 ppm	0.0000 ppm	-0.0005 ppm	-0.0008 ppm	0.0032 ppm
Recovery Percentage 1	2.772 %	0.427 %	6,650.497 %	0.837 %	-6.810 %	-0.340 %	27.688 %
Concentration RSD	25.3 %	33.3 %	2.4 %	71.8 %	62.1 %	320.5 %	14.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0221 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0031 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 1	0.0222 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0030 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 2	0.0228 ppm	0.0009 ppm	0.0000 ppm	-0.0002 ppm	-0.0036 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 3	0.0213 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0028 ppm	0.0001 ppm	0.0020 ppm
Recovery Percentage 1	4.416 %	1.049 %	0.634 %	-1.355 %	-15.603 %	0.162 %	40.486 %
Concentration RSD	3.5 %	70.3 %	98.8 %	56.1 %	14.4 %	283.3 %	6.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	89.1704 %	82.0976 %	101.3693 %	90.2929 %	82.3127 %	95.4736 %	0.0048 ppm
Concentration per Run 1	89.1931 %	81.9735 %	101.2304 %	89.0630 %	82.2405 %	95.4093 %	0.0050 ppm
Concentration per Run 2	88.9499 %	82.2851 %	101.6415 %	90.6798 %	82.4402 %	95.5644 %	0.0046 ppm
Concentration per Run 3	89.3683 %	82.0343 %	101.2361 %	91.1359 %	82.2573 %	95.4472 %	0.0047 ppm
Recovery Percentage 1							47.744 %
Concentration RSD	0.2 %	0.2 %	0.2 %	1.2 %	0.1 %	0.1 %	3.9 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1936282-2 WG1936282
Analysis started at: 6/19/2024 2:37:29 PM
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0473 ppm	2.0843 ppm	0.1143 ppm	0.8954 ppm	2.0433 ppm	0.0482 ppm	9.8443 ppm
Concentration per Run 1	0.0473 ppm	2.1766 ppm	0.1144 ppm	0.8951 ppm	2.1320 ppm	0.0501 ppm	10.2418 ppm
Concentration per Run 2	0.0471 ppm	2.0405 ppm	0.1147 ppm	0.8955 ppm	2.0019 ppm	0.0474 ppm	9.6978 ppm
Concentration per Run 3	0.0474 ppm	2.0359 ppm	0.1139 ppm	0.8957 ppm	1.9960 ppm	0.0469 ppm	9.5931 ppm
Concentration RSD	0.4 %	3.8 %	0.4 %	0.0 %	3.8 %	3.6 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0540 ppm	0.4531 ppm	0.1759 ppm	0.2413 ppm	1.0296 ppm	10.4428 ppm	9.1104 ppm
Concentration per Run 1	0.0540 ppm	0.4529 ppm	0.1763 ppm	0.2408 ppm	1.0726 ppm	10.8183 ppm	9.1147 ppm
Concentration per Run 2	0.0541 ppm	0.4534 ppm	0.1751 ppm	0.2419 ppm	1.0120 ppm	10.3316 ppm	9.0691 ppm
Concentration per Run 3	0.0540 ppm	0.4530 ppm	0.1763 ppm	0.2412 ppm	1.0043 ppm	10.1786 ppm	9.1474 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %	3.6 %	3.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5328 ppm	1.0911 ppm	9.9226 ppm	0.4965 ppm	0.5934 ppm	0.5800 ppm	0.1315 ppm
Concentration per Run 1	0.5539 ppm	1.0890 ppm	10.3148 ppm	0.4960 ppm	0.5931 ppm	0.5794 ppm	0.1311 ppm
Concentration per Run 2	0.5253 ppm	1.0918 ppm	9.7870 ppm	0.4961 ppm	0.5937 ppm	0.5800 ppm	0.1308 ppm
Concentration per Run 3	0.5190 ppm	1.0926 ppm	9.6661 ppm	0.4974 ppm	0.5933 ppm	0.5807 ppm	0.1325 ppm
Concentration RSD	3.5 %	0.2 %	3.5 %	0.2 %	0.0 %	0.1 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1625 ppm	1.0446 ppm	0.9332 ppm	0.9630 ppm	0.1393 ppm	0.4489 ppm	0.4635 ppm
Concentration per Run 1	1.1613 ppm	1.0452 ppm	0.9738 ppm	0.9643 ppm	0.1394 ppm	0.4494 ppm	0.4626 ppm
Concentration per Run 2	1.1627 ppm	1.0447 ppm	0.9136 ppm	0.9613 ppm	0.1398 ppm	0.4482 ppm	0.4638 ppm
Concentration per Run 3	1.1634 ppm	1.0440 ppm	0.9123 ppm	0.9634 ppm	0.1388 ppm	0.4490 ppm	0.4640 ppm
Concentration RSD	0.1 %	0.1 %	3.8 %	0.2 %	0.4 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	88.7703 %	87.1893 %	104.5745 %	89.4238 %	87.0698 %	99.6488 %	0.0014 ppm
Concentration per Run 1	85.4014 %	86.9086 %	104.5476 %	86.3321 %	87.0694 %	99.3583 %	0.0020 ppm
Concentration per Run 2	90.2716 %	87.4435 %	104.5032 %	90.4204 %	86.9855 %	99.8580 %	0.0014 ppm
Concentration per Run 3	90.6378 %	87.2158 %	104.6725 %	91.5188 %	87.1544 %	99.7300 %	0.0009 ppm
Concentration RSD	3.3 %	0.3 %	0.1 %	3.1 %	0.1 %	0.3 %	38.9 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: L2434106-01 WG1936282
Analysis started at: 6/19/2024 2:43:48 PM
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0165 ppm	0.0237 ppm	0.0085 ppm	0.0020 ppm	0.0000 ppm	39.6411 ppm
Concentration per Run 1	-0.0002 ppm	0.0131 ppm	0.0241 ppm	0.0088 ppm	0.0020 ppm	0.0000 ppm	40.6561 ppm
Concentration per Run 2	-0.0004 ppm	0.0148 ppm	0.0231 ppm	0.0084 ppm	0.0019 ppm	0.0001 ppm	39.1760 ppm
Concentration per Run 3	0.0001 ppm	0.0218 ppm	0.0238 ppm	0.0082 ppm	0.0020 ppm	0.0000 ppm	39.0911 ppm
Concentration RSD	183.8 %	27.8 %	2.2 %	3.1 %	4.9 %	23.2 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0013 ppm	0.0005 ppm	0.0005 ppm	0.0054 ppm	0.0035 ppm	0.7162 ppm	2.8355 ppm
Concentration per Run 1	0.0013 ppm	0.0004 ppm	0.0006 ppm	0.0054 ppm	0.0034 ppm	0.6933 ppm	2.8411 ppm
Concentration per Run 2	0.0013 ppm	0.0004 ppm	0.0005 ppm	0.0055 ppm	0.0037 ppm	0.7034 ppm	2.8321 ppm
Concentration per Run 3	0.0013 ppm	0.0006 ppm	0.0004 ppm	0.0054 ppm	0.0035 ppm	0.7520 ppm	2.8333 ppm
Concentration RSD	1.0 %	18.7 %	15.5 %	0.4 %	4.4 %	4.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1637 ppm	0.0013 ppm	134.2500 ppm	0.0036 ppm	0.0006 ppm	-0.0012 ppm	0.0018 ppm
Concentration per Run 1	0.1684 ppm	0.0015 ppm	138.2348 ppm	0.0036 ppm	0.0002 ppm	-0.0014 ppm	0.0023 ppm
Concentration per Run 2	0.1616 ppm	0.0012 ppm	131.8112 ppm	0.0038 ppm	0.0008 ppm	-0.0011 ppm	0.0012 ppm
Concentration per Run 3	0.1611 ppm	0.0011 ppm	132.7040 ppm	0.0035 ppm	0.0009 ppm	-0.0011 ppm	0.0020 ppm
Concentration RSD	2.5 %	18.2 %	2.6 %	5.2 %	54.7 %	15.2 %	31.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0880 ppm	0.0001 ppm	0.0869 ppm	0.0005 ppm	-0.0030 ppm	0.0047 ppm	0.0354 ppm
Concentration per Run 1	1.0902 ppm	0.0002 ppm	0.0880 ppm	0.0005 ppm	-0.0027 ppm	0.0047 ppm	0.0353 ppm
Concentration per Run 2	1.0877 ppm	0.0001 ppm	0.0860 ppm	0.0005 ppm	-0.0032 ppm	0.0047 ppm	0.0355 ppm
Concentration per Run 3	1.0860 ppm	0.0000 ppm	0.0866 ppm	0.0005 ppm	-0.0030 ppm	0.0047 ppm	0.0354 ppm
Concentration RSD	0.2 %	80.2 %	1.2 %	1.4 %	7.3 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	89.4481 %	82.6054 %	99.7936 %	90.0627 %	81.7735 %	94.7616 %	-0.0020 ppm
Concentration per Run 1	88.6211 %	82.5016 %	99.8544 %	88.0747 %	81.8952 %	94.6597 %	-0.0028 ppm
Concentration per Run 2	90.4197 %	82.5476 %	99.7376 %	91.3049 %	81.6621 %	94.7275 %	-0.0016 ppm
Concentration per Run 3	89.3035 %	82.7670 %	99.7886 %	90.8086 %	81.7633 %	94.8975 %	-0.0016 ppm
Concentration RSD	1.0 %	0.2 %	0.1 %	1.9 %	0.1 %	0.1 %	36.9 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: WG1936282-3 WG1936282
Analysis started at: 6/19/2024 2:50:31 PM
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0471 ppm	1.9728 ppm	0.1373 ppm	0.9174 ppm	1.9318 ppm	0.0462 ppm	48.3556 ppm
Concentration per Run 1	0.0472 ppm	1.9961 ppm	0.1383 ppm	0.9184 ppm	1.9592 ppm	0.0474 ppm	49.6269 ppm
Concentration per Run 2	0.0471 ppm	1.9559 ppm	0.1375 ppm	0.9195 ppm	1.9176 ppm	0.0456 ppm	47.7584 ppm
Concentration per Run 3	0.0470 ppm	1.9663 ppm	0.1361 ppm	0.9142 ppm	1.9187 ppm	0.0455 ppm	47.6814 ppm
Concentration RSD	0.2 %	1.1 %	0.8 %	0.3 %	1.2 %	2.3 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0548 ppm	0.4422 ppm	0.1691 ppm	0.2404 ppm	0.9858 ppm	10.7435 ppm	11.2327 ppm
Concentration per Run 1	0.0549 ppm	0.4429 ppm	0.1697 ppm	0.2401 ppm	1.0055 ppm	11.0008 ppm	11.2906 ppm
Concentration per Run 2	0.0549 ppm	0.4427 ppm	0.1687 ppm	0.2412 ppm	0.9770 ppm	10.6238 ppm	11.2152 ppm
Concentration per Run 3	0.0547 ppm	0.4411 ppm	0.1688 ppm	0.2399 ppm	0.9750 ppm	10.6058 ppm	11.1923 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.3 %	1.7 %	2.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6636 ppm	1.0875 ppm	140.6598 ppm	0.4855 ppm	0.5670 ppm	0.5874 ppm	0.1347 ppm
Concentration per Run 1	0.6796 ppm	1.0869 ppm	144.5051 ppm	0.4858 ppm	0.5674 ppm	0.5870 ppm	0.1341 ppm
Concentration per Run 2	0.6567 ppm	1.0898 ppm	138.6094 ppm	0.4859 ppm	0.5680 ppm	0.5889 ppm	0.1342 ppm
Concentration per Run 3	0.6547 ppm	1.0857 ppm	138.8649 ppm	0.4847 ppm	0.5656 ppm	0.5864 ppm	0.1358 ppm
Concentration RSD	2.1 %	0.2 %	2.4 %	0.1 %	0.2 %	0.2 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.2535 ppm	1.0171 ppm	0.9687 ppm	0.9385 ppm	0.1280 ppm	0.4430 ppm	0.4983 ppm
Concentration per Run 1	2.2553 ppm	1.0186 ppm	0.9823 ppm	0.9407 ppm	0.1278 ppm	0.4442 ppm	0.4983 ppm
Concentration per Run 2	2.2595 ppm	1.0186 ppm	0.9615 ppm	0.9388 ppm	0.1287 ppm	0.4431 ppm	0.4989 ppm
Concentration per Run 3	2.2456 ppm	1.0143 ppm	0.9622 ppm	0.9359 ppm	0.1274 ppm	0.4417 ppm	0.4979 ppm
Concentration RSD	0.3 %	0.2 %	1.2 %	0.3 %	0.5 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	89.3199 %	82.2230 %	99.2513 %	89.5127 %	80.5101 %	94.1080 %	-0.0018 ppm
Concentration per Run 1	88.3366 %	82.0229 %	99.3557 %	87.4700 %	80.4096 %	93.9006 %	-0.0031 ppm
Concentration per Run 2	90.1322 %	82.3462 %	99.2091 %	90.6844 %	80.3084 %	94.0868 %	-0.0015 ppm
Concentration per Run 3	89.4907 %	82.3000 %	99.1891 %	90.3837 %	80.8123 %	94.3365 %	-0.0007 ppm
Concentration RSD	1.0 %	0.2 %	0.1 %	2.0 %	0.3 %	0.2 %	68.3 %

LabBook: WG1936225_06192024T6.imexp

Sample: WG1936282-4 WG1936282
Analysis started at: 6/19/2024 2:56:58 PM
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0123 ppm	0.0240 ppm	0.0087 ppm	0.0018 ppm	0.0001 ppm	39.7340 ppm
Concentration per Run 1	-0.0001 ppm	0.0123 ppm	0.0256 ppm	0.0089 ppm	0.0019 ppm	0.0001 ppm	40.7992 ppm
Concentration per Run 2	-0.0002 ppm	0.0140 ppm	0.0224 ppm	0.0085 ppm	0.0018 ppm	0.0001 ppm	39.3029 ppm
Concentration per Run 3	-0.0002 ppm	0.0105 ppm	0.0239 ppm	0.0087 ppm	0.0018 ppm	0.0000 ppm	39.0999 ppm
Concentration RSD	35.0 %	14.4 %	6.6 %	2.4 %	4.3 %	48.5 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0013 ppm	0.0005 ppm	0.0006 ppm	0.0060 ppm	0.0039 ppm	0.7546 ppm	2.8267 ppm
Concentration per Run 1	0.0013 ppm	0.0007 ppm	0.0006 ppm	0.0061 ppm	0.0040 ppm	0.7356 ppm	2.8370 ppm
Concentration per Run 2	0.0013 ppm	0.0004 ppm	0.0006 ppm	0.0060 ppm	0.0043 ppm	0.7555 ppm	2.8238 ppm
Concentration per Run 3	0.0013 ppm	0.0004 ppm	0.0007 ppm	0.0060 ppm	0.0035 ppm	0.7727 ppm	2.8192 ppm
Concentration RSD	0.4 %	25.5 %	12.4 %	1.5 %	9.8 %	2.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1637 ppm	0.0014 ppm	132.1947 ppm	0.0035 ppm	0.0010 ppm	-0.0007 ppm	0.0022 ppm
Concentration per Run 1	0.1682 ppm	0.0016 ppm	137.3226 ppm	0.0036 ppm	0.0010 ppm	-0.0003 ppm	0.0029 ppm
Concentration per Run 2	0.1616 ppm	0.0013 ppm	128.6475 ppm	0.0036 ppm	0.0010 ppm	-0.0011 ppm	0.0033 ppm
Concentration per Run 3	0.1612 ppm	0.0013 ppm	130.6142 ppm	0.0034 ppm	0.0008 ppm	-0.0008 ppm	0.0005 ppm
Concentration RSD	2.4 %	12.9 %	3.4 %	3.6 %	12.9 %	61.5 %	66.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0869 ppm	0.0001 ppm	0.0864 ppm	0.0004 ppm	-0.0029 ppm	0.0047 ppm	0.0366 ppm
Concentration per Run 1	1.0876 ppm	0.0001 ppm	0.0876 ppm	0.0006 ppm	-0.0025 ppm	0.0049 ppm	0.0366 ppm
Concentration per Run 2	1.0891 ppm	0.0000 ppm	0.0859 ppm	0.0004 ppm	-0.0032 ppm	0.0046 ppm	0.0368 ppm
Concentration per Run 3	1.0839 ppm	0.0002 ppm	0.0856 ppm	0.0003 ppm	-0.0030 ppm	0.0046 ppm	0.0364 ppm
Concentration RSD	0.2 %	74.9 %	1.2 %	37.7 %	12.7 %	3.5 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	89.8193 %	83.3902 %	99.6926 %	89.8062 %	82.2286 %	95.1124 %	-0.0009 ppm
Concentration per Run 1	88.9902 %	83.2660 %	99.6662 %	87.7741 %	82.0577 %	94.9836 %	-0.0015 ppm
Concentration per Run 2	90.5396 %	83.4281 %	99.6981 %	90.7829 %	82.0445 %	95.1864 %	-0.0006 ppm
Concentration per Run 3	89.9281 %	83.4764 %	99.7135 %	90.8616 %	82.5835 %	95.1671 %	-0.0004 ppm
Concentration RSD	0.9 %	0.1 %	0.0 %	2.0 %	0.4 %	0.1 %	69.8 %

LabBook: WG1936225_06192024T6.imexp

Sample: L2434106-02 WG1936282
Analysis started at: 6/19/2024 3:03:48 PM
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0212 ppm	0.0232 ppm	0.0079 ppm	0.0019 ppm	0.0001 ppm	33.4247 ppm
Concentration per Run 1	0.0001 ppm	0.0201 ppm	0.0233 ppm	0.0080 ppm	0.0020 ppm	0.0000 ppm	34.2745 ppm
Concentration per Run 2	0.0000 ppm	0.0190 ppm	0.0234 ppm	0.0079 ppm	0.0019 ppm	0.0001 ppm	33.0359 ppm
Concentration per Run 3	-0.0001 ppm	0.0244 ppm	0.0228 ppm	0.0077 ppm	0.0019 ppm	0.0001 ppm	32.9636 ppm
Concentration RSD	17,175.2 %	13.4 %	1.5 %	2.3 %	3.1 %	42.2 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0015 ppm	0.0010 ppm	0.0005 ppm	0.0045 ppm	0.0085 ppm	0.7566 ppm	2.5204 ppm
Concentration per Run 1	0.0015 ppm	0.0009 ppm	0.0004 ppm	0.0045 ppm	0.0089 ppm	0.7602 ppm	2.5240 ppm
Concentration per Run 2	0.0015 ppm	0.0010 ppm	0.0005 ppm	0.0044 ppm	0.0080 ppm	0.7359 ppm	2.5188 ppm
Concentration per Run 3	0.0014 ppm	0.0011 ppm	0.0006 ppm	0.0046 ppm	0.0087 ppm	0.7736 ppm	2.5185 ppm
Concentration RSD	1.2 %	7.6 %	20.9 %	2.0 %	5.7 %	2.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1960 ppm	0.0008 ppm	137.0102 ppm	0.0048 ppm	0.0008 ppm	-0.0011 ppm	0.0029 ppm
Concentration per Run 1	0.2017 ppm	0.0009 ppm	141.5325 ppm	0.0048 ppm	0.0008 ppm	-0.0008 ppm	0.0024 ppm
Concentration per Run 2	0.1931 ppm	0.0009 ppm	135.0243 ppm	0.0048 ppm	0.0011 ppm	-0.0012 ppm	0.0035 ppm
Concentration per Run 3	0.1932 ppm	0.0007 ppm	134.4739 ppm	0.0048 ppm	0.0007 ppm	-0.0014 ppm	0.0028 ppm
Concentration RSD	2.5 %	12.7 %	2.9 %	0.1 %	25.3 %	25.5 %	18.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0712 ppm	-0.0001 ppm	0.0706 ppm	0.0008 ppm	-0.0031 ppm	0.0059 ppm	0.0508 ppm
Concentration per Run 1	1.0685 ppm	-0.0002 ppm	0.0714 ppm	0.0013 ppm	-0.0031 ppm	0.0058 ppm	0.0509 ppm
Concentration per Run 2	1.0731 ppm	-0.0001 ppm	0.0700 ppm	0.0005 ppm	-0.0034 ppm	0.0060 ppm	0.0506 ppm
Concentration per Run 3	1.0721 ppm	0.0000 ppm	0.0704 ppm	0.0005 ppm	-0.0029 ppm	0.0059 ppm	0.0508 ppm
Concentration RSD	0.2 %	108.4 %	1.0 %	57.6 %	7.0 %	1.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	90.4410 %	84.1318 %	99.7075 %	89.9822 %	82.6614 %	95.0048 %	0.0010 ppm
Concentration per Run 1	90.0297 %	84.2093 %	99.8891 %	88.0432 %	82.5969 %	94.9770 %	0.0009 ppm
Concentration per Run 2	90.5580 %	83.9254 %	99.4280 %	90.7905 %	82.5131 %	94.9324 %	0.0005 ppm
Concentration per Run 3	90.7353 %	84.2607 %	99.8056 %	91.1128 %	82.8740 %	95.1051 %	0.0017 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	1.9 %	0.2 %	0.1 %	58.7 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: L2434106-03 WG1936282
Analysis started at: 6/19/2024 3:10:31 PM
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0223 ppm	0.0303 ppm	0.0097 ppm	0.0010 ppm	0.0001 ppm	36.3506 ppm
Concentration per Run 1	-0.0001 ppm	0.0248 ppm	0.0300 ppm	0.0100 ppm	0.0009 ppm	0.0001 ppm	37.2342 ppm
Concentration per Run 2	0.0002 ppm	0.0190 ppm	0.0316 ppm	0.0097 ppm	0.0010 ppm	0.0001 ppm	35.9569 ppm
Concentration per Run 3	-0.0002 ppm	0.0230 ppm	0.0294 ppm	0.0094 ppm	0.0010 ppm	0.0001 ppm	35.8607 ppm
Concentration RSD	6,774.9 %	13.4 %	3.8 %	3.2 %	5.1 %	21.7 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0020 ppm	0.0025 ppm	0.0008 ppm	0.0055 ppm	0.0072 ppm	0.8377 ppm	3.6514 ppm
Concentration per Run 1	0.0020 ppm	0.0025 ppm	0.0006 ppm	0.0054 ppm	0.0073 ppm	0.8211 ppm	3.6599 ppm
Concentration per Run 2	0.0020 ppm	0.0025 ppm	0.0010 ppm	0.0055 ppm	0.0074 ppm	0.8373 ppm	3.6416 ppm
Concentration per Run 3	0.0020 ppm	0.0026 ppm	0.0007 ppm	0.0056 ppm	0.0069 ppm	0.8547 ppm	3.6526 ppm
Concentration RSD	1.1 %	3.3 %	23.2 %	1.6 %	4.0 %	2.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3209 ppm	0.0009 ppm	134.4927 ppm	0.0069 ppm	0.0001 ppm	-0.0012 ppm	0.0027 ppm
Concentration per Run 1	0.3286 ppm	0.0010 ppm	137.2336 ppm	0.0068 ppm	0.0004 ppm	-0.0006 ppm	0.0038 ppm
Concentration per Run 2	0.3171 ppm	0.0008 ppm	132.8210 ppm	0.0069 ppm	-0.0002 ppm	-0.0022 ppm	0.0021 ppm
Concentration per Run 3	0.3169 ppm	0.0008 ppm	133.4234 ppm	0.0070 ppm	0.0002 ppm	-0.0007 ppm	0.0020 ppm
Concentration RSD	2.1 %	10.8 %	1.8 %	1.1 %	194.7 %	79.3 %	37.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4627 ppm	0.0000 ppm	0.0396 ppm	0.0005 ppm	-0.0037 ppm	0.0060 ppm	0.0510 ppm
Concentration per Run 1	1.4631 ppm	0.0003 ppm	0.0400 ppm	0.0005 ppm	-0.0034 ppm	0.0058 ppm	0.0509 ppm
Concentration per Run 2	1.4648 ppm	0.0000 ppm	0.0393 ppm	0.0004 ppm	-0.0042 ppm	0.0062 ppm	0.0510 ppm
Concentration per Run 3	1.4602 ppm	-0.0004 ppm	0.0394 ppm	0.0007 ppm	-0.0036 ppm	0.0060 ppm	0.0511 ppm
Concentration RSD	0.2 %	1,643.5 %	0.9 %	29.6 %	10.8 %	3.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	90.1456 %	84.3356 %	100.4079 %	89.7154 %	83.2281 %	95.2195 %	0.0012 ppm
Concentration per Run 1	89.3284 %	84.2251 %	100.3116 %	88.0088 %	83.1061 %	94.9578 %	-0.0004 ppm
Concentration per Run 2	90.8635 %	84.3985 %	100.4267 %	90.6603 %	83.2568 %	95.2598 %	0.0016 ppm
Concentration per Run 3	90.2450 %	84.3833 %	100.4853 %	90.4772 %	83.3216 %	95.4408 %	0.0023 ppm
Concentration RSD	0.9 %	0.1 %	0.1 %	1.7 %	0.1 %	0.3 %	115.6 %

ICP DataTrace 6

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LabBook: WG1936225_06192024T6.imexp

Sample: L2434106-04 WG1936282
Analysis started at: 6/19/2024 3:17:15 PM
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0147 ppm	0.0195 ppm	0.0136 ppm	0.0007 ppm	0.0000 ppm	39.4106 ppm
Concentration per Run 1	-0.0002 ppm	0.0165 ppm	0.0199 ppm	0.0136 ppm	0.0007 ppm	0.0000 ppm	39.7480 ppm
Concentration per Run 2	-0.0003 ppm	0.0148 ppm	0.0195 ppm	0.0133 ppm	0.0007 ppm	0.0001 ppm	39.4825 ppm
Concentration per Run 3	-0.0002 ppm	0.0128 ppm	0.0192 ppm	0.0138 ppm	0.0007 ppm	0.0000 ppm	39.0013 ppm
Concentration RSD	38.4 %	12.4 %	1.9 %	1.8 %	4.4 %	55.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0019 ppm	0.0023 ppm	0.0008 ppm	0.0052 ppm	0.0029 ppm	0.8160 ppm	3.5785 ppm
Concentration per Run 1	0.0019 ppm	0.0024 ppm	0.0009 ppm	0.0051 ppm	0.0012 ppm	0.8117 ppm	3.4656 ppm
Concentration per Run 2	0.0019 ppm	0.0023 ppm	0.0009 ppm	0.0054 ppm	0.0036 ppm	0.8104 ppm	3.6959 ppm
Concentration per Run 3	0.0019 ppm	0.0023 ppm	0.0007 ppm	0.0051 ppm	0.0039 ppm	0.8261 ppm	3.5739 ppm
Concentration RSD	1.5 %	1.2 %	14.1 %	3.9 %	50.0 %	1.1 %	3.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3046 ppm	0.0008 ppm	131.8820 ppm	0.0062 ppm	-0.0002 ppm	-0.0008 ppm	0.0021 ppm
Concentration per Run 1	0.3081 ppm	0.0008 ppm	134.1887 ppm	0.0062 ppm	0.0000 ppm	-0.0004 ppm	0.0027 ppm
Concentration per Run 2	0.3039 ppm	0.0008 ppm	131.4110 ppm	0.0063 ppm	0.0002 ppm	-0.0006 ppm	0.0033 ppm
Concentration per Run 3	0.3017 ppm	0.0007 ppm	130.0463 ppm	0.0061 ppm	-0.0008 ppm	-0.0013 ppm	0.0004 ppm
Concentration RSD	1.1 %	4.4 %	1.6 %	1.8 %	287.1 %	68.4 %	71.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4185 ppm	0.0001 ppm	0.0378 ppm	0.0003 ppm	-0.0036 ppm	0.0059 ppm	0.0382 ppm
Concentration per Run 1	1.4115 ppm	0.0007 ppm	0.0378 ppm	0.0001 ppm	-0.0037 ppm	0.0056 ppm	0.0380 ppm
Concentration per Run 2	1.4210 ppm	-0.0001 ppm	0.0380 ppm	0.0005 ppm	-0.0035 ppm	0.0061 ppm	0.0386 ppm
Concentration per Run 3	1.4229 ppm	-0.0003 ppm	0.0377 ppm	0.0002 ppm	-0.0038 ppm	0.0058 ppm	0.0380 ppm
Concentration RSD	0.4 %	560.7 %	0.4 %	76.9 %	4.4 %	4.4 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	90.5733 %	84.9478 %	100.0911 %	89.9749 %	83.9087 %	95.2240 %	0.0003 ppm
Concentration per Run 1	90.8131 %	87.7177 %	100.7367 %	89.3255 %	84.2965 %	98.2906 %	0.0001 ppm
Concentration per Run 2	90.3330 %	82.1374 %	99.8314 %	89.8144 %	83.6622 %	92.2999 %	0.0000 ppm
Concentration per Run 3	90.5737 %	84.9883 %	99.7052 %	90.7849 %	83.7672 %	95.0814 %	0.0009 ppm
Concentration RSD	0.3 %	3.3 %	0.6 %	0.8 %	0.4 %	3.1 %	139.4 %

ICP DataTrace 6

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LabBook: WG1936225_06192024T6.imexp

Sample: L2434106-05 WG1936282
Analysis started at: 6/19/2024 3:23:59 PM
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0160 ppm	0.0541 ppm	0.0070 ppm	0.0026 ppm	0.0001 ppm	28.5250 ppm
Concentration per Run 1	0.0001 ppm	0.0154 ppm	0.0542 ppm	0.0070 ppm	0.0026 ppm	0.0001 ppm	29.2085 ppm
Concentration per Run 2	-0.0002 ppm	0.0191 ppm	0.0535 ppm	0.0070 ppm	0.0026 ppm	0.0001 ppm	28.1624 ppm
Concentration per Run 3	-0.0002 ppm	0.0135 ppm	0.0546 ppm	0.0070 ppm	0.0026 ppm	0.0001 ppm	28.2041 ppm
Concentration RSD	172.9 %	17.8 %	1.0 %	0.3 %	0.6 %	6.0 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.0008 ppm	0.0005 ppm	0.0034 ppm	0.0068 ppm	0.6432 ppm	2.9850 ppm
Concentration per Run 1	0.0011 ppm	0.0008 ppm	0.0003 ppm	0.0034 ppm	0.0075 ppm	0.6346 ppm	2.9840 ppm
Concentration per Run 2	0.0010 ppm	0.0006 ppm	0.0006 ppm	0.0034 ppm	0.0069 ppm	0.6594 ppm	2.9788 ppm
Concentration per Run 3	0.0011 ppm	0.0008 ppm	0.0005 ppm	0.0035 ppm	0.0061 ppm	0.6355 ppm	2.9924 ppm
Concentration RSD	1.7 %	13.1 %	28.7 %	2.0 %	10.6 %	2.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1442 ppm	0.0004 ppm	128.8592 ppm	0.0054 ppm	0.0006 ppm	-0.0004 ppm	0.0009 ppm
Concentration per Run 1	0.1476 ppm	0.0005 ppm	131.7671 ppm	0.0054 ppm	0.0004 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 2	0.1425 ppm	0.0004 ppm	127.1247 ppm	0.0055 ppm	0.0007 ppm	-0.0008 ppm	0.0010 ppm
Concentration per Run 3	0.1426 ppm	0.0005 ppm	127.6857 ppm	0.0053 ppm	0.0008 ppm	-0.0002 ppm	0.0021 ppm
Concentration RSD	2.0 %	13.2 %	2.0 %	1.5 %	37.3 %	96.9 %	156.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0467 ppm	-0.0001 ppm	0.0443 ppm	0.0004 ppm	-0.0035 ppm	0.0059 ppm	0.0260 ppm
Concentration per Run 1	1.0482 ppm	-0.0001 ppm	0.0448 ppm	0.0005 ppm	-0.0047 ppm	0.0057 ppm	0.0260 ppm
Concentration per Run 2	1.0461 ppm	-0.0002 ppm	0.0440 ppm	0.0002 ppm	-0.0031 ppm	0.0060 ppm	0.0260 ppm
Concentration per Run 3	1.0457 ppm	-0.0001 ppm	0.0439 ppm	0.0004 ppm	-0.0028 ppm	0.0059 ppm	0.0259 ppm
Concentration RSD	0.1 %	55.2 %	1.1 %	33.3 %	29.5 %	3.0 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	90.7993 %	85.6741 %	99.5914 %	90.0263 %	83.8091 %	95.2339 %	0.0005 ppm
Concentration per Run 1	90.0066 %	85.5479 %	99.6634 %	88.4281 %	83.6649 %	95.1279 %	0.0002 ppm
Concentration per Run 2	91.5301 %	85.7782 %	99.5481 %	91.2075 %	83.8606 %	95.3415 %	0.0000 ppm
Concentration per Run 3	90.8612 %	85.6961 %	99.5628 %	90.4435 %	83.9018 %	95.2322 %	0.0013 ppm
Concentration RSD	0.8 %	0.1 %	0.1 %	1.6 %	0.2 %	0.1 %	134.5 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: L2434143-01 WG1936282
Analysis started at: 6/19/2024 3:30:45 PM
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0317 ppm	0.0007 ppm	0.0057 ppm	0.0286 ppm	0.0001 ppm	7.8526 ppm
Concentration per Run 1	-0.0002 ppm	0.0351 ppm	0.0013 ppm	0.0056 ppm	0.0288 ppm	0.0001 ppm	8.0203 ppm
Concentration per Run 2	-0.0001 ppm	0.0280 ppm	0.0012 ppm	0.0058 ppm	0.0285 ppm	0.0001 ppm	7.7687 ppm
Concentration per Run 3	0.0000 ppm	0.0320 ppm	-0.0005 ppm	0.0056 ppm	0.0285 ppm	0.0001 ppm	7.7689 ppm
Concentration RSD	103.0 %	11.2 %	145.3 %	1.6 %	0.7 %	31.6 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0252 ppm	0.4917 ppm	1.3289 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0014 ppm	0.0249 ppm	0.4846 ppm	1.3293 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	0.0256 ppm	0.4737 ppm	1.3311 ppm
Concentration per Run 3	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0252 ppm	0.5169 ppm	1.3262 ppm
Concentration RSD	5.5 %	298.6 %	139.0 %	5.5 %	1.3 %	4.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0230 ppm	0.0002 ppm	127.2495 ppm	0.0005 ppm	0.0016 ppm	-0.0006 ppm	0.0032 ppm
Concentration per Run 1	0.0235 ppm	0.0002 ppm	131.0201 ppm	0.0007 ppm	0.0016 ppm	-0.0011 ppm	0.0033 ppm
Concentration per Run 2	0.0229 ppm	0.0002 ppm	125.6310 ppm	0.0006 ppm	0.0020 ppm	-0.0003 ppm	0.0031 ppm
Concentration per Run 3	0.0226 ppm	0.0002 ppm	125.0976 ppm	0.0003 ppm	0.0012 ppm	-0.0004 ppm	0.0031 ppm
Concentration RSD	1.9 %	7.1 %	2.6 %	33.6 %	25.7 %	72.5 %	3.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3252 ppm	-0.0003 ppm	0.0318 ppm	0.0004 ppm	-0.0030 ppm	0.0001 ppm	0.0091 ppm
Concentration per Run 1	0.3233 ppm	-0.0004 ppm	0.0322 ppm	0.0004 ppm	-0.0030 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 2	0.3272 ppm	-0.0003 ppm	0.0316 ppm	0.0002 ppm	-0.0031 ppm	0.0001 ppm	0.0091 ppm
Concentration per Run 3	0.3250 ppm	-0.0003 ppm	0.0317 ppm	0.0006 ppm	-0.0030 ppm	0.0001 ppm	0.0090 ppm
Concentration RSD	0.6 %	19.1 %	1.1 %	43.9 %	1.7 %	122.3 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	90.9664 %	86.0445 %	99.8363 %	89.3821 %	84.1804 %	95.2620 %	0.0035 ppm
Concentration per Run 1	90.0477 %	85.7948 %	100.2298 %	87.5617 %	84.4817 %	95.0333 %	0.0026 ppm
Concentration per Run 2	91.9288 %	86.0343 %	99.7553 %	90.4939 %	84.0126 %	95.3758 %	0.0038 ppm
Concentration per Run 3	90.9227 %	86.3044 %	99.5240 %	90.0906 %	84.0470 %	95.3768 %	0.0040 ppm
Concentration RSD	1.0 %	0.3 %	0.4 %	1.8 %	0.3 %	0.2 %	21.6 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: CCV
Analysis started at: 6/19/2024 3:37:32 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4936 ppm	0.5140 ppm	0.4784 ppm	0.4839 ppm	0.5216 ppm	0.5014 ppm	0.5181 ppm
Concentration per Run 1	0.4944 ppm	0.5301 ppm	0.4801 ppm	0.4850 ppm	0.5404 ppm	0.5178 ppm	0.5374 ppm
Concentration per Run 2	0.4937 ppm	0.5084 ppm	0.4775 ppm	0.4851 ppm	0.5127 ppm	0.4941 ppm	0.5103 ppm
Concentration per Run 3	0.4928 ppm	0.5035 ppm	0.4775 ppm	0.4818 ppm	0.5116 ppm	0.4923 ppm	0.5066 ppm
Recovery Percentage 1	98.728 %	102.800 %	95.673 %	96.787 %	104.313 %	100.283 %	103.620 %
Concentration RSD	0.2 %	2.8 %	0.3 %	0.4 %	3.1 %	2.8 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4921 ppm	0.4671 ppm	0.4661 ppm	0.4895 ppm	0.5297 ppm	5.5124 ppm	0.5111 ppm
Concentration per Run 1	0.4909 ppm	0.4667 ppm	0.4667 ppm	0.4895 ppm	0.5462 ppm	5.6814 ppm	0.5116 ppm
Concentration per Run 2	0.4940 ppm	0.4684 ppm	0.4664 ppm	0.4903 ppm	0.5212 ppm	5.4224 ppm	0.5114 ppm
Concentration per Run 3	0.4916 ppm	0.4661 ppm	0.4653 ppm	0.4887 ppm	0.5217 ppm	5.4334 ppm	0.5102 ppm
Recovery Percentage 1	98.428 %	93.411 %	93.219 %	97.904 %	105.943 %	110.248 %	102.213 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.2 %	2.7 %	2.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5337 ppm	0.5467 ppm	10.1932 ppm	0.4988 ppm	0.5355 ppm	0.5593 ppm	0.5503 ppm
Concentration per Run 1	0.5501 ppm	0.5452 ppm	10.5012 ppm	0.4981 ppm	0.5347 ppm	0.5602 ppm	0.5519 ppm
Concentration per Run 2	0.5251 ppm	0.5476 ppm	10.0450 ppm	0.5003 ppm	0.5374 ppm	0.5593 ppm	0.5490 ppm
Concentration per Run 3	0.5260 ppm	0.5475 ppm	10.0335 ppm	0.4980 ppm	0.5345 ppm	0.5584 ppm	0.5501 ppm
Recovery Percentage 1	106.744 %	109.350 %	101.932 %	99.760 %	107.110 %	111.862 %	110.067 %
Concentration RSD	2.7 %	0.3 %	2.6 %	0.3 %	0.3 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9800 ppm	0.5487 ppm	0.5030 ppm	0.5118 ppm	0.5710 ppm	0.4656 ppm	0.4791 ppm
Concentration per Run 1	4.9819 ppm	0.5475 ppm	0.5206 ppm	0.5129 ppm	0.5702 ppm	0.4660 ppm	0.4778 ppm
Concentration per Run 2	4.9868 ppm	0.5495 ppm	0.4947 ppm	0.5114 ppm	0.5719 ppm	0.4657 ppm	0.4813 ppm
Concentration per Run 3	4.9714 ppm	0.5491 ppm	0.4938 ppm	0.5111 ppm	0.5709 ppm	0.4650 ppm	0.4781 ppm
Recovery Percentage 1	94.858 %	109.742 %	100.606 %	102.365 %	114.197 %	93.112 %	95.813 %
Concentration RSD	0.2 %	0.2 %	3.0 %	0.2 %	0.1 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.5065 %	92.2464 %	106.2372 %	91.3168 %	94.8160 %	101.1081 %	0.5393 ppm
Concentration per Run 1	89.8376 %	92.0873 %	106.1214 %	88.9812 %	94.8764 %	100.9651 %	0.5571 ppm
Concentration per Run 2	94.0940 %	92.3215 %	106.2311 %	92.6506 %	94.6609 %	101.1396 %	0.5302 ppm
Concentration per Run 3	93.5880 %	92.3304 %	106.3593 %	92.3186 %	94.9105 %	101.2195 %	0.5305 ppm
Recovery Percentage 1							107.853 %
Concentration RSD	2.5 %	0.1 %	0.1 %	2.2 %	0.1 %	0.1 %	2.9 %

ICP DataTrace 6

6/19/2024 3:53:26 PM

LabBook: WG1936225_06192024T6.imexp

Sample: CCB
Analysis started at: 6/19/2024 3:43:50 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	0.0078 ppm
Concentration per Run 1	0.0002 ppm	-0.0010 ppm	0.0013 ppm	0.0015 ppm	0.0000 ppm	0.0001 ppm	0.0083 ppm
Concentration per Run 2	-0.0001 ppm	0.0035 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0076 ppm
Concentration per Run 3	0.0002 ppm	-0.0014 ppm	0.0006 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Recovery Percentage 1	1.931 %	0.000 %	11.868 %	3.801 %	0.255 %	1.351 %	0.002 %
Concentration RSD	122.4 %	761.1 %	112.3 %	33.5 %	13.3 %	55.6 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0011 ppm	0.0767 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0018 ppm	0.0720 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0875 ppm	0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0008 ppm	0.0704 ppm	0.0014 ppm
Recovery Percentage 1	0.651 %	0.208 %	1.725 %	5.525 %	0.001 %	3.066 %	0.000 %
Concentration RSD	81.8 %	184.2 %	63.2 %	14.0 %	57.8 %	12.3 %	38.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0535 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0565 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0554 ppm	-0.0001 ppm	-0.0001 ppm	-0.0015 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0485 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0029 ppm
Recovery Percentage 1	0.909 %	0.977 %	2.674 %	0.163 %	1.648 %	-0.583 %	17.190 %
Concentration RSD	44.8 %	25.1 %	8.2 %	258.8 %	123.7 %	363.8 %	60.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0017 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	-0.0016 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 2	-0.0017 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0018 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	-0.340 %	0.600 %	-0.208 %	-0.790 %	-0.154 %	0.198 %	6.990 %
Concentration RSD	8.2 %	54.3 %	67.3 %	231.7 %	335.9 %	370.9 %	3.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.1463 %	93.3923 %	106.6662 %	84.8509 %	97.4356 %	100.6516 %	0.0007 ppm
Concentration per Run 1	90.6581 %	93.2181 %	106.7022 %	81.2858 %	97.4628 %	100.4616 %	0.0008 ppm
Concentration per Run 2	92.7610 %	93.3867 %	106.7434 %	85.8708 %	97.4367 %	100.6074 %	0.0011 ppm
Concentration per Run 3	93.0198 %	93.5721 %	106.5529 %	87.3961 %	97.4072 %	100.8858 %	0.0004 ppm
Recovery Percentage 1							7.444 %
Concentration RSD	1.4 %	0.2 %	0.1 %	3.7 %	0.0 %	0.2 %	46.4 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: Blank HJM Trace6
Analysis started at: 6/19/2024 4:10:12 PM
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	2.1 %	0.5 %	0.1 %	0.1 %	1.2 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.4 %	2.1 %	0.5 %	0.0 %	-0.8 %	0.3 %	5.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	-0.1 %	-0.4 %	0.0 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	0.2 %	-0.4 %	-0.1 %	-0.4 %	0.1 %	-0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	-1.1 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: ICAL
Analysis started at: 6/19/2024 4:16:55 PM
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9995 ppm	25.6325 ppm	0.9986 ppm	0.9997 ppm	1.0235 ppm	1.0260 ppm	10.2589 ppm
Concentration per Run 2	0.9994 ppm	24.7243 ppm	1.0005 ppm	1.0007 ppm	0.9893 ppm	0.9880 ppm	9.8885 ppm
Concentration per Run 3	1.0011 ppm	24.6432 ppm	1.0009 ppm	0.9995 ppm	0.9872 ppm	0.9860 ppm	9.8526 ppm
Concentration RSD	0.1 %	2.2 %	0.1 %	0.1 %	2.0 %	2.3 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0005 ppm	1.0003 ppm	1.0010 ppm	0.9970 ppm	25.6368 ppm	35.7890 ppm	10.0227 ppm
Concentration per Run 2	0.9982 ppm	0.9989 ppm	0.9976 ppm	1.0006 ppm	24.7138 ppm	34.6153 ppm	9.9846 ppm
Concentration per Run 3	1.0014 ppm	1.0008 ppm	1.0014 ppm	1.0024 ppm	24.6494 ppm	34.5957 ppm	9.9928 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.3 %	2.2 %	2.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0271 ppm	0.9965 ppm	25.5901 ppm	1.0004 ppm	0.9999 ppm	1.0009 ppm	1.0009 ppm
Concentration per Run 2	0.9888 ppm	1.0005 ppm	24.7287 ppm	1.0002 ppm	0.9993 ppm	1.0010 ppm	0.9998 ppm
Concentration per Run 3	0.9841 ppm	1.0030 ppm	24.6812 ppm	0.9994 ppm	1.0008 ppm	0.9981 ppm	0.9993 ppm
Concentration RSD	2.4 %	0.3 %	2.0 %	0.1 %	0.1 %	0.2 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9950 ppm	1.0016 ppm	1.0243 ppm	1.0006 ppm	0.9993 ppm	1.0013 ppm	0.9999 ppm
Concentration per Run 2	10.0081 ppm	0.9977 ppm	0.9889 ppm	0.9994 ppm	1.0001 ppm	0.9980 ppm	0.9977 ppm
Concentration per Run 3	9.9968 ppm	1.0007 ppm	0.9868 ppm	1.0000 ppm	1.0005 ppm	1.0007 ppm	1.0024 ppm
Concentration RSD	0.1 %	0.2 %	2.1 %	0.1 %	0.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.8028 %	96.3772 %	95.5856 %	90.1727 %	89.2955 %	95.2722 %	1.0000 ppm
Concentration per Run 1	96.7379 %	96.1959 %	95.7291 %	88.5318 %	89.3025 %	95.0982 %	1.0241 ppm
Concentration per Run 2	101.2796 %	96.7598 %	95.4455 %	90.9121 %	89.1941 %	95.6486 %	0.9874 ppm
Concentration per Run 3	101.3909 %	96.1759 %	95.5823 %	91.0743 %	89.3898 %	95.0698 %	0.9885 ppm
Concentration RSD	2.7 %	0.3 %	0.1 %	1.6 %	0.1 %	0.3 %	2.1 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: ICV
Analysis started at: 6/19/2024 4:23:13 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4977 ppm	0.4879 ppm	0.4910 ppm	0.4777 ppm	0.5066 ppm	0.5147 ppm	0.5053 ppm
Concentration per Run 1	0.4977 ppm	0.5075 ppm	0.4923 ppm	0.4764 ppm	0.5237 ppm	0.5331 ppm	0.5212 ppm
Concentration per Run 2	0.4979 ppm	0.4769 ppm	0.4894 ppm	0.4790 ppm	0.4988 ppm	0.5073 ppm	0.4992 ppm
Concentration per Run 3	0.4974 ppm	0.4793 ppm	0.4912 ppm	0.4776 ppm	0.4973 ppm	0.5038 ppm	0.4954 ppm
Recovery Percentage 1	99.535 %	97.583 %	98.191 %	95.535 %	101.327 %	102.948 %	101.054 %
Concentration RSD	0.1 %	3.5 %	0.3 %	0.3 %	2.9 %	3.1 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4777 ppm	0.4871 ppm	0.4985 ppm	0.4873 ppm	0.5221 ppm	5.3010 ppm	0.5098 ppm
Concentration per Run 1	0.4775 ppm	0.4861 ppm	0.4968 ppm	0.4880 ppm	0.5418 ppm	5.4565 ppm	0.5072 ppm
Concentration per Run 2	0.4772 ppm	0.4878 ppm	0.4985 ppm	0.4876 ppm	0.5139 ppm	5.2158 ppm	0.5097 ppm
Concentration per Run 3	0.4783 ppm	0.4873 ppm	0.5001 ppm	0.4863 ppm	0.5107 ppm	5.2307 ppm	0.5125 ppm
Recovery Percentage 1	95.539 %	97.417 %	99.691 %	97.465 %	104.423 %	106.020 %	101.956 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %	3.3 %	2.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5029 ppm	0.4733 ppm	10.1568 ppm	0.4899 ppm	0.4936 ppm	0.4802 ppm	0.4749 ppm
Concentration per Run 1	0.5213 ppm	0.4722 ppm	10.5033 ppm	0.4896 ppm	0.4941 ppm	0.4786 ppm	0.4743 ppm
Concentration per Run 2	0.4958 ppm	0.4734 ppm	10.0060 ppm	0.4897 ppm	0.4938 ppm	0.4822 ppm	0.4740 ppm
Concentration per Run 3	0.4914 ppm	0.4742 ppm	9.9611 ppm	0.4903 ppm	0.4930 ppm	0.4799 ppm	0.4765 ppm
Recovery Percentage 1	100.573 %	94.656 %	101.568 %	97.971 %	98.729 %	96.046 %	94.986 %
Concentration RSD	3.2 %	0.2 %	3.0 %	0.1 %	0.1 %	0.4 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9990 ppm	0.4986 ppm	0.5012 ppm	0.5018 ppm	0.4996 ppm	0.4903 ppm	0.4832 ppm
Concentration per Run 1	4.9953 ppm	0.4978 ppm	0.5181 ppm	0.5019 ppm	0.5002 ppm	0.4903 ppm	0.4835 ppm
Concentration per Run 2	5.0041 ppm	0.4984 ppm	0.4936 ppm	0.5021 ppm	0.4994 ppm	0.4893 ppm	0.4826 ppm
Concentration per Run 3	4.9976 ppm	0.4995 ppm	0.4920 ppm	0.5015 ppm	0.4991 ppm	0.4911 ppm	0.4837 ppm
Recovery Percentage 1	95.219 %	99.718 %	100.246 %	100.368 %	99.915 %	98.051 %	96.646 %
Concentration RSD	0.1 %	0.2 %	2.9 %	0.1 %	0.1 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4708 %	100.0770 %	98.8439 %	90.2124 %	96.8281 %	98.4289 %	0.4940 ppm
Concentration per Run 1	98.3174 %	99.7939 %	98.9724 %	87.5580 %	96.9763 %	98.2340 %	0.5102 ppm
Concentration per Run 2	102.8602 %	100.2822 %	98.5815 %	91.1644 %	96.6736 %	98.5681 %	0.4866 ppm
Concentration per Run 3	103.2349 %	100.1547 %	98.9777 %	91.9149 %	96.8343 %	98.4847 %	0.4852 ppm
Recovery Percentage 1							98.793 %
Concentration RSD	2.7 %	0.3 %	0.2 %	2.6 %	0.2 %	0.2 %	2.8 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: ICB
Analysis started at: 6/19/2024 4:29:31 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 1	-0.0003 ppm	0.0034 ppm	-0.0006 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 2	-0.0002 ppm	-0.0012 ppm	-0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 3	-0.0002 ppm	-0.0025 ppm	0.0007 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0039 ppm
Recovery Percentage 1	-3.341 %	0.000 %	-2.040 %	2.823 %	-0.041 %	0.346 %	0.001 %
Concentration RSD	33.9 %	2,614.0 %	657.4 %	18.7 %	1,728.8 %	40.3 %	43.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0199 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0149 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0203 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0246 ppm	0.0028 ppm
Recovery Percentage 1	-0.119 %	0.237 %	1.471 %	0.644 %	0.000 %	0.797 %	0.000 %
Concentration RSD	602.0 %	48.9 %	62.1 %	53.2 %	52.4 %	24.5 %	156.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0004 ppm	0.0046 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0006 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0081 ppm	0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0047 ppm	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	-0.0004 ppm
Recovery Percentage 1	2.195 %	0.898 %	0.228 %	0.128 %	-0.809 %	1.242 %	0.197 %
Concentration RSD	50.5 %	31.7 %	80.1 %	405.9 %	232.7 %	124.2 %	1,734.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 3	0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage 1	0.127 %	-0.102 %	0.504 %	0.319 %	2.386 %	0.572 %	7.932 %
Concentration RSD	60.8 %	138.5 %	111.1 %	80.8 %	98.2 %	123.6 %	22.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.8529 %	101.3504 %	99.5619 %	84.2188 %	99.5771 %	97.7890 %	0.0002 ppm
Concentration per Run 1	99.8361 %	101.3173 %	99.5177 %	80.3498 %	98.9589 %	97.6844 %	-0.0004 ppm
Concentration per Run 2	103.0660 %	101.3730 %	99.5956 %	85.4741 %	99.7241 %	97.7852 %	0.0016 ppm
Concentration per Run 3	102.6565 %	101.3608 %	99.5725 %	86.8325 %	100.0483 %	97.8975 %	-0.0005 ppm
Recovery Percentage 1							2.408 %
Concentration RSD	1.7 %	0.0 %	0.0 %	4.1 %	0.6 %	0.1 %	499.0 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: ICV
Analysis started at: 6/19/2024 4:36:32 PM
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4949 ppm	0.4886 ppm	0.4935 ppm	0.4753 ppm	0.5037 ppm	0.5146 ppm	0.5048 ppm
Concentration per Run 1	0.4957 ppm	0.5088 ppm	0.4929 ppm	0.4758 ppm	0.5194 ppm	0.5311 ppm	0.5201 ppm
Concentration per Run 2	0.4940 ppm	0.4786 ppm	0.4942 ppm	0.4754 ppm	0.4966 ppm	0.5069 ppm	0.4979 ppm
Concentration per Run 3	0.4950 ppm	0.4786 ppm	0.4935 ppm	0.4746 ppm	0.4951 ppm	0.5059 ppm	0.4965 ppm
Recovery Percentage 1	98.976 %	97.727 %	98.705 %	95.054 %	100.747 %	102.925 %	100.966 %
Concentration RSD	0.2 %	3.6 %	0.1 %	0.1 %	2.7 %	2.8 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4760 ppm	0.4869 ppm	0.4999 ppm	0.4871 ppm	0.5228 ppm	5.2453 ppm	0.5093 ppm
Concentration per Run 1	0.4764 ppm	0.4874 ppm	0.4990 ppm	0.4874 ppm	0.5369 ppm	5.4094 ppm	0.5108 ppm
Concentration per Run 2	0.4762 ppm	0.4868 ppm	0.5002 ppm	0.4862 ppm	0.5175 ppm	5.1766 ppm	0.5093 ppm
Concentration per Run 3	0.4754 ppm	0.4865 ppm	0.5005 ppm	0.4878 ppm	0.5139 ppm	5.1497 ppm	0.5077 ppm
Recovery Percentage 1	95.200 %	97.383 %	99.984 %	97.428 %	104.552 %	104.905 %	101.857 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	2.4 %	2.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5030 ppm	0.4708 ppm	10.1049 ppm	0.4881 ppm	0.4925 ppm	0.4793 ppm	0.4729 ppm
Concentration per Run 1	0.5188 ppm	0.4709 ppm	10.4102 ppm	0.4885 ppm	0.4937 ppm	0.4796 ppm	0.4728 ppm
Concentration per Run 2	0.4955 ppm	0.4703 ppm	9.9677 ppm	0.4881 ppm	0.4915 ppm	0.4795 ppm	0.4734 ppm
Concentration per Run 3	0.4946 ppm	0.4714 ppm	9.9367 ppm	0.4878 ppm	0.4924 ppm	0.4790 ppm	0.4727 ppm
Recovery Percentage 1	100.595 %	94.170 %	101.049 %	97.626 %	98.502 %	95.869 %	94.586 %
Concentration RSD	2.7 %	0.1 %	2.6 %	0.1 %	0.2 %	0.1 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3594 ppm	0.4866 ppm	0.4951 ppm	0.5007 ppm	0.4994 ppm	0.4907 ppm	0.4824 ppm
Concentration per Run 1	5.3616 ppm	0.4871 ppm	0.5101 ppm	0.5007 ppm	0.4995 ppm	0.4903 ppm	0.4833 ppm
Concentration per Run 2	5.3575 ppm	0.4871 ppm	0.4886 ppm	0.5013 ppm	0.4982 ppm	0.4917 ppm	0.4826 ppm
Concentration per Run 3	5.3592 ppm	0.4858 ppm	0.4866 ppm	0.5002 ppm	0.5003 ppm	0.4902 ppm	0.4813 ppm
Recovery Percentage 1	102.084 %	97.326 %	99.021 %	100.142 %	99.870 %	98.149 %	96.478 %
Concentration RSD	0.0 %	0.2 %	2.6 %	0.1 %	0.2 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4693 %	100.6578 %	98.5987 %	90.2142 %	96.9964 %	98.6655 %	0.6257 ppm
Concentration per Run 1	98.5048 %	100.8231 %	98.4958 %	87.8136 %	96.8195 %	98.8101 %	0.6454 ppm
Concentration per Run 2	102.9601 %	100.6628 %	98.7130 %	91.3861 %	97.0881 %	98.6213 %	0.6155 ppm
Concentration per Run 3	102.9431 %	100.4874 %	98.5873 %	91.4429 %	97.0815 %	98.5650 %	0.6163 ppm
Recovery Percentage 1							125.146 %
Concentration RSD	2.5 %	0.2 %	0.1 %	2.3 %	0.2 %	0.1 %	2.7 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: ICB
Analysis started at: 6/19/2024 4:42:52 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0020 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 1	-0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 2	0.0000 ppm	-0.0028 ppm	0.0009 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	-0.0004 ppm	-0.0034 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0042 ppm
Recovery Percentage 1	-3.086 %	0.000 %	4.319 %	1.433 %	0.154 %	0.370 %	0.001 %
Concentration RSD	106.3 %	96.3 %	334.3 %	53.9 %	500.6 %	23.3 %	75.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	0.0228 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0425 ppm	-0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0024 ppm	0.0168 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0092 ppm	0.0000 ppm
Recovery Percentage 1	0.412 %	0.567 %	0.340 %	-0.258 %	0.001 %	0.914 %	0.000 %
Concentration RSD	329.5 %	90.4 %	455.1 %	10.7 %	54.2 %	76.4 %	238.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0017 ppm	-0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0047 ppm	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0016 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0013 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	-0.0011 ppm
Recovery Percentage 1	1.628 %	0.571 %	0.072 %	0.215 %	-1.475 %	2.106 %	2.397 %
Concentration RSD	84.9 %	31.2 %	222.1 %	300.7 %	177.6 %	26.4 %	561.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm
Recovery Percentage 1	0.061 %	-0.534 %	0.428 %	0.513 %	2.752 %	-1.472 %	9.158 %
Concentration RSD	67.7 %	14.2 %	164.0 %	43.8 %	60.6 %	40.3 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.0043 %	102.6000 %	99.7836 %	83.8023 %	100.4884 %	97.8545 %	0.0003 ppm
Concentration per Run 1	100.0252 %	102.7379 %	99.6423 %	79.8789 %	100.3066 %	97.7275 %	0.0006 ppm
Concentration per Run 2	102.9565 %	102.7345 %	99.8818 %	84.9243 %	100.5147 %	98.0415 %	0.0003 ppm
Concentration per Run 3	103.0314 %	102.3276 %	99.8266 %	86.6036 %	100.6439 %	97.7945 %	0.0001 ppm
Recovery Percentage 1							3.440 %
Concentration RSD	1.7 %	0.2 %	0.1 %	4.2 %	0.2 %	0.2 %	83.1 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LLOQ RL Check
Analysis started at: 6/19/2024 4:54:31 PM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0068 ppm	0.1034 ppm	0.0048 ppm	0.0274 ppm	0.0106 ppm	0.0052 ppm	0.1092 ppm
Concentration per Run 1	0.0070 ppm	0.1102 ppm	0.0047 ppm	0.0272 ppm	0.0111 ppm	0.0055 ppm	0.1134 ppm
Concentration per Run 2	0.0068 ppm	0.1041 ppm	0.0049 ppm	0.0275 ppm	0.0104 ppm	0.0052 ppm	0.1094 ppm
Concentration per Run 3	0.0065 ppm	0.0960 ppm	0.0048 ppm	0.0276 ppm	0.0103 ppm	0.0050 ppm	0.1048 ppm
Recovery Percentage 1	96.541 %	103.446 %	96.096 %	91.311 %	106.427 %	104.792 %	109.169 %
Concentration RSD	4.0 %	6.9 %	2.7 %	0.8 %	4.1 %	4.4 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0038 ppm	0.0193 ppm	0.0103 ppm	0.0103 ppm	0.0626 ppm	2.7608 ppm	0.1080 ppm
Concentration per Run 1	0.0037 ppm	0.0194 ppm	0.0103 ppm	0.0103 ppm	0.0649 ppm	2.8731 ppm	0.1088 ppm
Concentration per Run 2	0.0038 ppm	0.0193 ppm	0.0102 ppm	0.0103 ppm	0.0606 ppm	2.7045 ppm	0.1078 ppm
Concentration per Run 3	0.0038 ppm	0.0193 ppm	0.0104 ppm	0.0104 ppm	0.0622 ppm	2.7049 ppm	0.1073 ppm
Recovery Percentage 1	94.893 %	96.706 %	102.886 %	103.250 %	125.152 %	110.433 %	107.969 %
Concentration RSD	1.1 %	0.5 %	1.1 %	0.5 %	3.5 %	3.5 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0111 ppm	0.0466 ppm	2.1748 ppm	0.0239 ppm	0.0100 ppm	0.0480 ppm	0.0101 ppm
Concentration per Run 1	0.0115 ppm	0.0465 ppm	2.2668 ppm	0.0237 ppm	0.0104 ppm	0.0483 ppm	0.0100 ppm
Concentration per Run 2	0.0111 ppm	0.0467 ppm	2.1404 ppm	0.0239 ppm	0.0101 ppm	0.0477 ppm	0.0095 ppm
Concentration per Run 3	0.0109 ppm	0.0465 ppm	2.1174 ppm	0.0240 ppm	0.0096 ppm	0.0481 ppm	0.0108 ppm
Recovery Percentage 1	111.323 %	93.111 %	108.742 %	95.480 %	100.499 %	96.053 %	100.595 %
Concentration RSD	2.8 %	0.3 %	3.7 %	0.7 %	3.8 %	0.7 %	6.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4985 ppm	0.0488 ppm	0.0102 ppm	0.0502 ppm	0.0207 ppm	0.0099 ppm	0.0053 ppm
Concentration per Run 1	0.4976 ppm	0.0487 ppm	0.0107 ppm	0.0504 ppm	0.0204 ppm	0.0098 ppm	0.0053 ppm
Concentration per Run 2	0.5001 ppm	0.0489 ppm	0.0101 ppm	0.0500 ppm	0.0204 ppm	0.0098 ppm	0.0052 ppm
Concentration per Run 3	0.4979 ppm	0.0488 ppm	0.0100 ppm	0.0502 ppm	0.0212 ppm	0.0099 ppm	0.0053 ppm
Recovery Percentage 1	99.706 %	97.611 %	102.405 %	100.383 %	103.371 %	98.608 %	105.436 %
Concentration RSD	0.3 %	0.2 %	3.7 %	0.4 %	2.3 %	0.3 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4544 %	101.9042 %	100.8865 %	87.9022 %	100.8246 %	100.2763 %	0.0105 ppm
Concentration per Run 1	98.5654 %	101.6957 %	101.1132 %	84.3908 %	100.9733 %	100.0991 %	0.0107 ppm
Concentration per Run 2	103.1383 %	102.2057 %	100.8100 %	89.3273 %	100.7576 %	100.4946 %	0.0099 ppm
Concentration per Run 3	102.6593 %	101.8111 %	100.7363 %	89.9885 %	100.7430 %	100.2352 %	0.0108 ppm
Recovery Percentage 1							104.885 %
Concentration RSD	2.5 %	0.3 %	0.2 %	3.5 %	0.1 %	0.2 %	4.7 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LLOQ 0.05 Fe
Analysis started at: 6/19/2024 5:06:17 PM
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0502 ppm	0.0431 ppm	0.0477 ppm	0.0453 ppm	0.0433 ppm	0.0437 ppm	0.0474 ppm
Concentration per Run 1	0.0503 ppm	0.0415 ppm	0.0482 ppm	0.0454 ppm	0.0416 ppm	0.0420 ppm	0.0424 ppm
Concentration per Run 2	0.0502 ppm	0.0447 ppm	0.0469 ppm	0.0454 ppm	0.0434 ppm	0.0438 ppm	0.0478 ppm
Concentration per Run 3	0.0502 ppm	0.0430 ppm	0.0481 ppm	0.0451 ppm	0.0449 ppm	0.0454 ppm	0.0521 ppm
Recovery Percentage 1	0.000 %	86.185 %	0.000 %	0.000 %	0.000 %	0.000 %	94.849 %
Concentration RSD	0.1 %	3.7 %	1.4 %	0.4 %	3.9 %	3.9 %	10.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0464 ppm	0.0471 ppm	0.0605 ppm	0.0483 ppm	0.0464 ppm	0.4637 ppm	0.0523 ppm
Concentration per Run 1	0.0463 ppm	0.0469 ppm	0.0627 ppm	0.0483 ppm	0.0454 ppm	0.4282 ppm	0.0533 ppm
Concentration per Run 2	0.0466 ppm	0.0473 ppm	0.0602 ppm	0.0484 ppm	0.0467 ppm	0.4572 ppm	0.0520 ppm
Concentration per Run 3	0.0464 ppm	0.0471 ppm	0.0586 ppm	0.0482 ppm	0.0469 ppm	0.5056 ppm	0.0517 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	92.726 %	18.547 %	104.645 %
Concentration RSD	0.4 %	0.4 %	3.4 %	0.2 %	1.7 %	8.4 %	1.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0440 ppm	0.0452 ppm	0.8836 ppm	0.0478 ppm	0.0489 ppm	0.0468 ppm	0.0460 ppm
Concentration per Run 1	0.0422 ppm	0.0449 ppm	0.8433 ppm	0.0478 ppm	0.0487 ppm	0.0462 ppm	0.0447 ppm
Concentration per Run 2	0.0443 ppm	0.0454 ppm	0.8852 ppm	0.0478 ppm	0.0490 ppm	0.0463 ppm	0.0471 ppm
Concentration per Run 3	0.0457 ppm	0.0453 ppm	0.9225 ppm	0.0480 ppm	0.0492 ppm	0.0478 ppm	0.0463 ppm
Recovery Percentage 1	0.000 %	0.000 %	88.365 %	0.000 %	0.000 %	93.577 %	0.000 %
Concentration RSD	4.0 %	0.6 %	4.5 %	0.3 %	0.5 %	1.9 %	2.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4738 ppm	0.0481 ppm	0.0430 ppm	0.0491 ppm	0.0505 ppm	0.0477 ppm	0.0472 ppm
Concentration per Run 1	0.4720 ppm	0.0480 ppm	0.0414 ppm	0.0490 ppm	0.0507 ppm	0.0480 ppm	0.0470 ppm
Concentration per Run 2	0.4756 ppm	0.0483 ppm	0.0430 ppm	0.0491 ppm	0.0510 ppm	0.0474 ppm	0.0473 ppm
Concentration per Run 3	0.4739 ppm	0.0481 ppm	0.0447 ppm	0.0493 ppm	0.0499 ppm	0.0477 ppm	0.0472 ppm
Recovery Percentage 1	94.766 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	94.332 %
Concentration RSD	0.4 %	0.4 %	3.8 %	0.4 %	1.2 %	0.6 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4816 %	101.7446 %	102.1627 %	104.0575 %	102.7654 %	102.4847 %	0.0434 ppm
Concentration per Run 1	99.2504 %	101.6078 %	102.0628 %	108.2636 %	103.0006 %	102.7192 %	0.0415 ppm
Concentration per Run 2	102.9853 %	101.7871 %	102.3065 %	104.0074 %	102.5478 %	102.4711 %	0.0442 ppm
Concentration per Run 3	102.2090 %	101.8390 %	102.1187 %	99.9015 %	102.7479 %	102.2639 %	0.0446 ppm
Recovery Percentage 1							0.000 %
Concentration RSD	1.9 %	0.1 %	0.1 %	4.0 %	0.2 %	0.2 %	3.9 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR (ICSA)
Analysis started at: 6/19/2024 5:28:08 PM
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	478.5035 ppm	0.0003 ppm	0.0196 ppm	0.0020 ppm	0.0000 ppm	437.0900 ppm
Concentration per Run 1	0.0002 ppm	461.7028 ppm	0.0042 ppm	0.0199 ppm	0.0018 ppm	0.0000 ppm	418.9454 ppm
Concentration per Run 2	0.0001 ppm	485.1121 ppm	-0.0022 ppm	0.0200 ppm	0.0020 ppm	0.0000 ppm	441.2698 ppm
Concentration per Run 3	0.0002 ppm	488.6955 ppm	-0.0009 ppm	0.0188 ppm	0.0021 ppm	0.0000 ppm	451.0548 ppm
Recovery Percentage 1	2.919 %	95.701 %	7.000 %	65.242 %	19.535 %	-0.313 %	87.418 %
Concentration RSD	34.3 %	3.1 %	975.0 %	3.4 %	7.0 %	48.4 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0022 ppm	-0.0001 ppm	-0.0008 ppm	0.0005 ppm	170.5107 ppm	2.2254 ppm	468.8014 ppm
Concentration per Run 1	-0.0022 ppm	-0.0001 ppm	-0.0007 ppm	0.0005 ppm	164.3399 ppm	1.8578 ppm	469.8380 ppm
Concentration per Run 2	-0.0022 ppm	-0.0002 ppm	-0.0010 ppm	0.0006 ppm	172.6642 ppm	2.2982 ppm	472.5695 ppm
Concentration per Run 3	-0.0021 ppm	-0.0001 ppm	-0.0008 ppm	0.0003 ppm	174.5281 ppm	2.5203 ppm	463.9966 ppm
Recovery Percentage 1	-54.294 %	-0.669 %	-8.339 %	4.613 %	85.255 %	89.018 %	93.760 %
Concentration RSD	1.5 %	63.6 %	18.9 %	34.4 %	3.2 %	15.2 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0019 ppm	0.0030 ppm	0.5363 ppm	-0.0020 ppm	-0.0088 ppm	0.0127 ppm	0.0067 ppm
Concentration per Run 1	0.0015 ppm	0.0034 ppm	0.4860 ppm	-0.0018 ppm	-0.0089 ppm	0.0114 ppm	0.0082 ppm
Concentration per Run 2	0.0021 ppm	0.0029 ppm	0.5580 ppm	-0.0021 ppm	-0.0085 ppm	0.0109 ppm	0.0092 ppm
Concentration per Run 3	0.0020 ppm	0.0026 ppm	0.5650 ppm	-0.0021 ppm	-0.0089 ppm	0.0156 ppm	0.0026 ppm
Recovery Percentage 1	18.924 %	5.940 %	26.817 %	-8.039 %	-87.838 %	25.304 %	66.746 %
Concentration RSD	17.9 %	13.4 %	8.2 %	8.4 %	2.8 %	20.6 %	53.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0066 ppm	0.0013 ppm	0.0042 ppm	0.0026 ppm	-0.0079 ppm	-0.0011 ppm	0.0009 ppm
Concentration per Run 1	0.0047 ppm	0.0007 ppm	0.0040 ppm	0.0024 ppm	-0.0085 ppm	-0.0015 ppm	0.0009 ppm
Concentration per Run 2	0.0075 ppm	0.0026 ppm	0.0042 ppm	0.0027 ppm	-0.0073 ppm	-0.0013 ppm	0.0009 ppm
Concentration per Run 3	0.0076 ppm	0.0007 ppm	0.0044 ppm	0.0027 ppm	-0.0078 ppm	-0.0007 ppm	0.0009 ppm
Recovery Percentage 1	1.313 %	2.669 %	42.098 %	25.910 %	-39.352 %	-11.445 %	17.882 %
Concentration RSD	24.9 %	80.1 %	4.9 %	5.3 %	7.9 %	37.0 %	2.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.3621 %	82.9757 %	83.5251 %	89.7669 %	76.3028 %	83.1324 %	-0.0490 ppm
Concentration per Run 1	93.4824 %	82.8549 %	83.6019 %	93.5163 %	76.3716 %	83.0990 %	-0.0485 ppm
Concentration per Run 2	94.8068 %	82.9862 %	83.4365 %	88.7409 %	76.0737 %	83.1378 %	-0.0482 ppm
Concentration per Run 3	94.7971 %	83.0859 %	83.5369 %	87.0436 %	76.4630 %	83.1603 %	-0.0504 ppm
Recovery Percentage 1							-490.202 %
Concentration RSD	0.8 %	0.1 %	0.1 %	3.7 %	0.3 %	0.0 %	2.4 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR (SIC)
Analysis started at: 6/19/2024 5:35:07 PM
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0055 ppm	-0.0029 ppm	0.0119 ppm	0.0004 ppm	-0.0059 ppm	0.0251 ppm
Concentration per Run 1	0.0001 ppm	0.0037 ppm	-0.0029 ppm	0.0120 ppm	0.0004 ppm	-0.0060 ppm	0.0284 ppm
Concentration per Run 2	0.0002 ppm	0.0036 ppm	-0.0032 ppm	0.0120 ppm	0.0004 ppm	-0.0059 ppm	0.0228 ppm
Concentration per Run 3	0.0003 ppm	0.0093 ppm	-0.0027 ppm	0.0117 ppm	0.0005 ppm	-0.0059 ppm	0.0241 ppm
Recovery Percentage 1	2.682 %	0.001 %	-58.709 %	39.682 %	4.080 %	-118.800 %	0.005 %
Concentration RSD	44.8 %	58.9 %	8.7 %	1.4 %	13.8 %	0.6 %	11.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0030 ppm	-0.0167 ppm	19.9989 ppm	-0.0125 ppm	0.0185 ppm	0.4639 ppm	-0.0004 ppm
Concentration per Run 1	-0.0030 ppm	-0.0171 ppm	20.1152 ppm	-0.0125 ppm	0.0180 ppm	0.5051 ppm	0.0024 ppm
Concentration per Run 2	-0.0030 ppm	-0.0166 ppm	19.9046 ppm	-0.0125 ppm	0.0178 ppm	0.4562 ppm	0.0010 ppm
Concentration per Run 3	-0.0030 ppm	-0.0163 ppm	19.9770 ppm	-0.0125 ppm	0.0195 ppm	0.4304 ppm	-0.0046 ppm
Recovery Percentage 1	-74.979 %	-83.276 %	199,989.461 %	-124.973 %	0.009 %	18.555 %	0.000 %
Concentration RSD	0.3 %	2.4 %	0.5 %	0.3 %	5.1 %	8.2 %	911.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	20.5324 ppm	-0.0010 ppm	0.0779 ppm	0.0003 ppm	-0.0098 ppm	0.0111 ppm	-0.0003 ppm
Concentration per Run 1	20.8003 ppm	-0.0010 ppm	0.0812 ppm	0.0003 ppm	-0.0097 ppm	0.0108 ppm	-0.0002 ppm
Concentration per Run 2	20.7032 ppm	-0.0010 ppm	0.0774 ppm	0.0002 ppm	-0.0097 ppm	0.0112 ppm	-0.0002 ppm
Concentration per Run 3	20.0938 ppm	-0.0011 ppm	0.0752 ppm	0.0005 ppm	-0.0099 ppm	0.0114 ppm	-0.0006 ppm
Recovery Percentage 1	205,324.488 %	-2.063 %	3.897 %	1.216 %	-97.769 %	22.293 %	-3.298 %
Concentration RSD	1.9 %	4.0 %	3.9 %	57.5 %	1.1 %	3.0 %	63.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1099 ppm	-0.0032 ppm	0.0010 ppm	19.9442 ppm	0.0107 ppm	10.2941 ppm	-0.0042 ppm
Concentration per Run 1	0.1129 ppm	-0.0032 ppm	0.0010 ppm	20.1040 ppm	0.0116 ppm	10.3610 ppm	-0.0041 ppm
Concentration per Run 2	0.1106 ppm	-0.0031 ppm	0.0010 ppm	19.8379 ppm	0.0110 ppm	10.2720 ppm	-0.0041 ppm
Concentration per Run 3	0.1063 ppm	-0.0032 ppm	0.0009 ppm	19.8906 ppm	0.0095 ppm	10.2494 ppm	-0.0044 ppm
Recovery Percentage 1	21.979 %	-6.334 %	9.738 %	199,441.710 %	53.329 %	102,941.399 %	-83.986 %
Concentration RSD	3.1 %	2.9 %	6.9 %	0.7 %	10.1 %	0.6 %	3.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.7148 %	100.8534 %	99.5026 %	91.7729 %	96.5684 %	98.3768 %	-0.0001 ppm
Concentration per Run 1	102.3878 %	100.8368 %	99.4879 %	91.3958 %	96.2938 %	98.0220 %	-0.0004 ppm
Concentration per Run 2	102.8279 %	101.0337 %	99.4777 %	92.1082 %	96.7329 %	98.6961 %	0.0004 ppm
Concentration per Run 3	102.9287 %	100.6896 %	99.5424 %	91.8148 %	96.6785 %	98.4123 %	-0.0001 ppm
Recovery Percentage 1							-0.582 %
Concentration RSD	0.3 %	0.2 %	0.0 %	0.4 %	0.2 %	0.3 %	673.7 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Check
Analysis started at: 6/19/2024 5:42:18 PM
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	0.0040 ppm	22.0520 ppm	20.6450 ppm	19.4858 ppm	5.0242 ppm	0.0325 ppm
Concentration per Run 1	0.0011 ppm	0.0033 ppm	22.0590 ppm	20.6829 ppm	19.5052 ppm	5.0162 ppm	0.0298 ppm
Concentration per Run 2	0.0009 ppm	0.0008 ppm	22.0909 ppm	20.6261 ppm	19.4059 ppm	5.0203 ppm	0.0335 ppm
Concentration per Run 3	0.0006 ppm	0.0079 ppm	22.0061 ppm	20.6259 ppm	19.5462 ppm	5.0363 ppm	0.0343 ppm
Recovery Percentage 1	0.000 %	0.000 %	110.260 %	103.225 %	97.429 %	100.485 %	0.000 %
Concentration RSD	29.2 %	90.0 %	0.2 %	0.2 %	0.4 %	0.2 %	7.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	5.2526 ppm	5.2482 ppm	0.0049 ppm	20.3903 ppm	0.0914 ppm	488.5714 ppm	0.0093 ppm
Concentration per Run 1	5.2645 ppm	5.2602 ppm	0.0050 ppm	20.4940 ppm	0.0917 ppm	492.0638 ppm	0.0099 ppm
Concentration per Run 2	5.2475 ppm	5.2435 ppm	0.0049 ppm	20.3205 ppm	0.0907 ppm	488.1153 ppm	0.0093 ppm
Concentration per Run 3	5.2459 ppm	5.2410 ppm	0.0048 ppm	20.3563 ppm	0.0918 ppm	485.5350 ppm	0.0086 ppm
Recovery Percentage 1	105.053 %	104.964 %	0.000 %	101.951 %	0.000 %	97.714 %	0.000 %
Concentration RSD	0.2 %	0.2 %	2.6 %	0.4 %	0.6 %	0.7 %	6.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	5.4374 ppm	405.9919 ppm	10.1916 ppm	50.5325 ppm	5.5810 ppm	5.4698 ppm
Concentration per Run 1	0.0007 ppm	5.4403 ppm	406.2080 ppm	10.2133 ppm	50.6158 ppm	5.5844 ppm	5.4841 ppm
Concentration per Run 2	0.0007 ppm	5.4315 ppm	405.8919 ppm	10.1808 ppm	50.4635 ppm	5.5743 ppm	5.4596 ppm
Concentration per Run 3	0.0008 ppm	5.4404 ppm	405.8759 ppm	10.1808 ppm	50.5183 ppm	5.5844 ppm	5.4658 ppm
Recovery Percentage 1	0.000 %	108.748 %	81.198 %	101.916 %	101.065 %	111.620 %	109.397 %
Concentration RSD	9.7 %	0.1 %	0.0 %	0.2 %	0.2 %	0.1 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	23.6855 ppm	7.8065 ppm	4.8996 ppm	0.0033 ppm	4.6475 ppm	-0.0039 ppm	20.7439 ppm
Concentration per Run 1	23.7295 ppm	7.8205 ppm	4.8800 ppm	0.0033 ppm	4.6531 ppm	-0.0037 ppm	20.7975 ppm
Concentration per Run 2	23.6667 ppm	7.7923 ppm	4.9264 ppm	0.0032 ppm	4.6457 ppm	-0.0039 ppm	20.7354 ppm
Concentration per Run 3	23.6603 ppm	7.8066 ppm	4.8925 ppm	0.0034 ppm	4.6436 ppm	-0.0041 ppm	20.6989 ppm
Recovery Percentage 1	118.427 %	78.065 %	97.993 %	0.000 %	92.950 %	0.000 %	103.720 %
Concentration RSD	0.2 %	0.2 %	0.5 %	3.5 %	0.1 %	6.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.5913 %	85.4374 %	83.1769 %	87.3706 %	76.2043 %	84.0365 %	19.4775 ppm
Concentration per Run 1	99.2436 %	85.3822 %	83.0968 %	87.8660 %	76.0140 %	83.9664 %	19.4729 ppm
Concentration per Run 2	98.7243 %	85.4548 %	83.0468 %	87.3930 %	76.3062 %	84.0311 %	19.4600 ppm
Concentration per Run 3	97.8061 %	85.4752 %	83.3872 %	86.8529 %	76.2928 %	84.1120 %	19.4997 ppm
Recovery Percentage 1							97.388 %
Concentration RSD	0.7 %	0.1 %	0.2 %	0.6 %	0.2 %	0.1 %	0.1 %

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Sb 5 pass
Analysis started at: 6/19/2024 6:01:10 PM
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0019 ppm	0.0017 ppm	0.0072 ppm	0.0000 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 1	-0.0003 ppm	0.0040 ppm	0.0019 ppm	0.0074 ppm	0.0001 ppm	0.0001 ppm	0.0134 ppm
Concentration per Run 2	-0.0002 ppm	-0.0017 ppm	0.0017 ppm	0.0071 ppm	0.0000 ppm	0.0000 ppm	0.0131 ppm
Concentration per Run 3	-0.0002 ppm	0.0035 ppm	0.0015 ppm	0.0072 ppm	0.0000 ppm	0.0000 ppm	0.0101 ppm
Concentration RSD	29.7 %	166.0 %	11.9 %	2.6 %	205.0 %	43.3 %	15.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0028 ppm	0.4440 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0029 ppm	0.4749 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0024 ppm	0.4368 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0032 ppm	0.4202 ppm	0.0009 ppm
Concentration RSD	25.7 %	219.3 %	34.3 %	210.1 %	13.5 %	6.3 %	154.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0910 ppm	0.0001 ppm	-0.0010 ppm	4.5503 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0914 ppm	0.0002 ppm	-0.0015 ppm	4.5543 ppm	0.0012 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0916 ppm	0.0002 ppm	-0.0006 ppm	4.5465 ppm	-0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0899 ppm	-0.0001 ppm	-0.0011 ppm	4.5500 ppm	0.0005 ppm
Concentration RSD	30.9 %	30.9 %	1.0 %	157.5 %	41.1 %	0.1 %	458.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.0014 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 2	0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm
Concentration per Run 3	0.0014 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration RSD	5.1 %	1,985.9 %	26.2 %	1,135.5 %	138.0 %	63.1 %	5.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.2982 %	102.5054 %	103.2690 %	86.5287 %	102.1429 %	101.5489 %	0.0051 ppm
Concentration per Run 1	100.1479 %	102.5830 %	103.4058 %	82.4610 %	102.0353 %	101.3270 %	0.0053 ppm
Concentration per Run 2	104.0217 %	102.5037 %	103.3254 %	88.1497 %	102.1587 %	101.6276 %	0.0047 ppm
Concentration per Run 3	102.7249 %	102.4295 %	103.0757 %	88.9753 %	102.2349 %	101.6921 %	0.0052 ppm
Concentration RSD	1.9 %	0.1 %	0.2 %	4.1 %	0.1 %	0.2 %	6.8 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Sn 10 pass
Analysis started at: 6/19/2024 6:08:01 PM
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0080 ppm	0.0000 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 1	-0.0002 ppm	0.0021 ppm	0.0006 ppm	0.0081 ppm	0.0001 ppm	0.0001 ppm	0.0076 ppm
Concentration per Run 2	-0.0001 ppm	0.0030 ppm	0.0011 ppm	0.0081 ppm	0.0000 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 3	0.0000 ppm	-0.0043 ppm	0.0018 ppm	0.0077 ppm	0.0000 ppm	0.0001 ppm	0.0069 ppm
Concentration RSD	99.0 %	1,419.0 %	50.2 %	3.4 %	59.5 %	105.8 %	11.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0019 ppm	0.2646 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0017 ppm	0.2650 ppm	-0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.2590 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0025 ppm	0.2699 ppm	0.0001 ppm
Concentration RSD	245.4 %	144.6 %	112.1 %	82.0 %	23.8 %	2.1 %	10,180.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0012 ppm	0.0000 ppm	0.0490 ppm	0.0002 ppm	-0.0003 ppm	0.0457 ppm	-0.0002 ppm
Concentration per Run 1	0.0012 ppm	0.0000 ppm	0.0492 ppm	0.0002 ppm	-0.0002 ppm	0.0481 ppm	-0.0007 ppm
Concentration per Run 2	0.0009 ppm	0.0000 ppm	0.0535 ppm	0.0002 ppm	-0.0002 ppm	0.0450 ppm	0.0003 ppm
Concentration per Run 3	0.0014 ppm	0.0000 ppm	0.0441 ppm	0.0002 ppm	-0.0004 ppm	0.0441 ppm	-0.0003 ppm
Concentration RSD	18.5 %	148.6 %	9.6 %	4.4 %	53.4 %	4.6 %	215.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0294 ppm	9.2779 ppm	0.0000 ppm	0.0018 ppm	0.0008 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	0.0301 ppm	9.2930 ppm	0.0000 ppm	0.0017 ppm	0.0012 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 2	0.0294 ppm	9.2666 ppm	0.0000 ppm	0.0017 ppm	0.0009 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	0.0287 ppm	9.2741 ppm	0.0001 ppm	0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0008 ppm
Concentration RSD	2.4 %	0.1 %	577.1 %	7.0 %	60.0 %	174.2 %	10.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.5841 %	102.0464 %	102.8643 %	88.8201 %	102.0218 %	101.5080 %	0.0026 ppm
Concentration per Run 1	100.7403 %	101.9447 %	102.9549 %	85.3649 %	101.8576 %	101.5059 %	0.0027 ppm
Concentration per Run 2	104.0348 %	102.0397 %	102.9992 %	90.2605 %	102.3963 %	101.4700 %	0.0019 ppm
Concentration per Run 3	102.9772 %	102.1549 %	102.6389 %	90.8348 %	101.8114 %	101.5482 %	0.0031 ppm
Concentration RSD	1.6 %	0.1 %	0.2 %	3.4 %	0.3 %	0.0 %	22.2 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Si 20 pass
Analysis started at: 6/19/2024 6:16:01 PM
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0033 ppm	-0.0006 ppm	0.0087 ppm	0.0000 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 1	0.0000 ppm	0.0028 ppm	-0.0010 ppm	0.0086 ppm	0.0001 ppm	0.0001 ppm	0.0081 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	-0.0003 ppm	0.0089 ppm	0.0000 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 3	-0.0003 ppm	0.0049 ppm	-0.0004 ppm	0.0086 ppm	0.0000 ppm	0.0001 ppm	0.0070 ppm
Concentration RSD	241.5 %	43.6 %	61.0 %	2.4 %	57.9 %	65.1 %	7.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0020 ppm	0.1768 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0020 ppm	0.1650 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0003 ppm	0.0015 ppm	0.1842 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0024 ppm	0.1812 ppm	0.0022 ppm
Concentration RSD	20.4 %	7.8 %	190.4 %	297.8 %	21.6 %	5.8 %	86.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0338 ppm	0.0001 ppm	-0.0044 ppm	0.0048 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0001 ppm	0.0311 ppm	0.0000 ppm	-0.0044 ppm	0.0051 ppm	-0.0006 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0370 ppm	0.0002 ppm	-0.0046 ppm	0.0042 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0334 ppm	0.0002 ppm	-0.0044 ppm	0.0050 ppm	0.0004 ppm
Concentration RSD	42.7 %	50.3 %	8.8 %	81.2 %	3.0 %	10.4 %	572.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	19.0912 ppm	0.0023 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	-0.0001 ppm	0.0008 ppm
Concentration per Run 1	19.0525 ppm	0.0027 ppm	0.0001 ppm	0.0004 ppm	0.0012 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 2	19.1084 ppm	0.0022 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	-0.0001 ppm	0.0008 ppm
Concentration per Run 3	19.1126 ppm	0.0020 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0009 ppm
Concentration RSD	0.2 %	15.6 %	156.5 %	19.8 %	29.0 %	66.5 %	12.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.9705 %	103.4024 %	103.7087 %	92.6683 %	101.9495 %	103.2297 %	0.0025 ppm
Concentration per Run 1	102.0962 %	103.3700 %	103.8629 %	91.5958 %	102.1307 %	103.3652 %	0.0014 ppm
Concentration per Run 2	104.4349 %	109.5522 %	103.6468 %	92.9784 %	101.9607 %	109.2682 %	0.0032 ppm
Concentration per Run 3	105.3805 %	97.2849 %	103.6163 %	93.4308 %	101.7572 %	97.0558 %	0.0029 ppm
Concentration RSD	1.6 %	5.9 %	0.1 %	1.0 %	0.2 %	5.9 %	37.9 %

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Fe 200 pass
Analysis started at: 6/19/2024 6:22:41 PM
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0049 ppm	-0.0011 ppm	0.0050 ppm	0.0002 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 1	0.0003 ppm	0.0051 ppm	-0.0005 ppm	0.0050 ppm	0.0002 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run 2	0.0006 ppm	0.0063 ppm	-0.0015 ppm	0.0050 ppm	0.0001 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 3	0.0001 ppm	0.0032 ppm	-0.0012 ppm	0.0049 ppm	0.0002 ppm	0.0001 ppm	0.0043 ppm
Concentration RSD	83.6 %	31.8 %	46.6 %	1.2 %	23.9 %	163.3 %	40.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	-0.0004 ppm	-0.0012 ppm	-0.0015 ppm	188.6670 ppm	0.1602 ppm	0.0064 ppm
Concentration per Run 1	0.0004 ppm	-0.0004 ppm	-0.0011 ppm	-0.0015 ppm	190.5490 ppm	0.1739 ppm	0.0051 ppm
Concentration per Run 2	0.0004 ppm	-0.0004 ppm	-0.0013 ppm	-0.0015 ppm	187.9817 ppm	0.1422 ppm	0.0066 ppm
Concentration per Run 3	0.0005 ppm	-0.0003 ppm	-0.0013 ppm	-0.0016 ppm	187.4703 ppm	0.1646 ppm	0.0074 ppm
Concentration RSD	14.0 %	21.4 %	10.9 %	3.5 %	0.9 %	10.2 %	18.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	-0.0013 ppm	0.0294 ppm	-0.0046 ppm	0.0008 ppm	0.0002 ppm	0.0048 ppm
Concentration per Run 1	0.0003 ppm	-0.0013 ppm	0.0299 ppm	-0.0045 ppm	0.0011 ppm	-0.0008 ppm	0.0048 ppm
Concentration per Run 2	0.0003 ppm	-0.0013 ppm	0.0282 ppm	-0.0048 ppm	0.0008 ppm	0.0009 ppm	0.0053 ppm
Concentration per Run 3	0.0001 ppm	-0.0013 ppm	0.0300 ppm	-0.0046 ppm	0.0004 ppm	0.0005 ppm	0.0041 ppm
Concentration RSD	43.9 %	3.4 %	3.5 %	3.5 %	48.6 %	430.6 %	12.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0027 ppm	0.0020 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	-0.0010 ppm	0.0006 ppm
Concentration per Run 1	0.0029 ppm	0.0021 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0012 ppm	0.0006 ppm
Concentration per Run 2	0.0026 ppm	0.0021 ppm	0.0002 ppm	0.0000 ppm	-0.0008 ppm	-0.0008 ppm	0.0005 ppm
Concentration per Run 3	0.0024 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	-0.0010 ppm	0.0006 ppm
Concentration RSD	10.9 %	5.8 %	16.2 %	483.4 %	152.5 %	18.6 %	7.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.0514 %	98.3581 %	98.4953 %	91.6041 %	92.8422 %	98.5450 %	0.0026 ppm
Concentration per Run 1	101.5138 %	98.3009 %	98.5770 %	91.3628 %	92.8663 %	98.3864 %	0.0027 ppm
Concentration per Run 2	102.6843 %	98.1784 %	98.6330 %	92.1814 %	92.9965 %	98.4564 %	0.0019 ppm
Concentration per Run 3	101.9561 %	98.5948 %	98.2760 %	91.2681 %	92.6637 %	98.7922 %	0.0033 ppm
Concentration RSD	0.6 %	0.2 %	0.2 %	0.5 %	0.2 %	0.2 %	26.6 %

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Na 500 pass
Analysis started at: 6/19/2024 6:29:44 PM
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0035 ppm	0.0008 ppm	0.0043 ppm	0.0001 ppm	0.0000 ppm	0.0168 ppm
Concentration per Run 1	-0.0003 ppm	0.0046 ppm	0.0009 ppm	0.0046 ppm	0.0001 ppm	0.0000 ppm	0.0178 ppm
Concentration per Run 2	-0.0006 ppm	0.0043 ppm	0.0010 ppm	0.0041 ppm	0.0001 ppm	0.0000 ppm	0.0188 ppm
Concentration per Run 3	-0.0002 ppm	0.0017 ppm	0.0005 ppm	0.0042 ppm	0.0001 ppm	0.0001 ppm	0.0139 ppm
Concentration RSD	57.7 %	44.7 %	35.5 %	5.7 %	17.9 %	137.3 %	15.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0060 ppm	0.5632 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0006 ppm	0.0063 ppm	0.5148 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0008 ppm	0.0053 ppm	0.5601 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0065 ppm	0.6148 ppm	0.0016 ppm
Concentration RSD	94.6 %	771.6 %	55.1 %	14.4 %	10.5 %	8.9 %	15.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	476.1508 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 1	0.0004 ppm	-0.0002 ppm	504.6794 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	467.6241 ppm	0.0005 ppm	-0.0003 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	456.1489 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm	0.0008 ppm
Concentration RSD	68.1 %	168.0 %	5.3 %	34.0 %	11.7 %	282.4 %	41.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0040 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 1	0.0042 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 2	0.0042 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm	-0.0002 ppm	0.0013 ppm
Concentration per Run 3	0.0035 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	-0.0001 ppm	0.0012 ppm
Concentration RSD	9.8 %	35.0 %	51.6 %	287.5 %	29.0 %	1,688.1 %	4.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.3749 %	87.8006 %	91.5451 %	83.9641 %	81.5980 %	87.7140 %	0.0076 ppm
Concentration per Run 1	98.2099 %	87.7859 %	91.3312 %	80.0989 %	81.3130 %	87.6469 %	0.0071 ppm
Concentration per Run 2	100.1681 %	87.7991 %	91.7111 %	85.3535 %	81.6830 %	87.6191 %	0.0076 ppm
Concentration per Run 3	99.7468 %	87.8169 %	91.5932 %	86.4401 %	81.7980 %	87.8760 %	0.0081 ppm
Concentration RSD	1.0 %	0.0 %	0.2 %	4.0 %	0.3 %	0.2 %	6.4 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Ca 1000 pass
Analysis started at: 6/19/2024 6:36:52 PM
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.0290 ppm	-0.0024 ppm	0.0029 ppm	0.0001 ppm	-0.0002 ppm	**1,023.3830 ppm**
Concentration per Run 1	-0.0013 ppm	0.0227 ppm	-0.0017 ppm	0.0031 ppm	0.0001 ppm	-0.0003 ppm	1,087.6860 ppm
Concentration per Run 2	-0.0009 ppm	0.0304 ppm	-0.0026 ppm	0.0028 ppm	0.0002 ppm	-0.0002 ppm	1,001.0936 ppm
Concentration per Run 3	-0.0004 ppm	0.0337 ppm	-0.0029 ppm	0.0028 ppm	0.0000 ppm	-0.0002 ppm	981.3693 ppm
Concentration RSD	48.6 %	19.5 %	27.1 %	7.1 %	107.7 %	24.3 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0011 ppm	0.0024 ppm	0.5122 ppm	0.0012 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0011 ppm	0.0021 ppm	0.5216 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0027 ppm	0.5058 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0008 ppm	0.0012 ppm	0.0025 ppm	0.5093 ppm	0.0011 ppm
Concentration RSD	61.2 %	39.6 %	54.0 %	5.2 %	13.0 %	1.6 %	82.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0005 ppm	0.2484 ppm	0.0000 ppm	0.0022 ppm	0.0029 ppm	-0.0068 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	0.2652 ppm	-0.0001 ppm	0.0021 ppm	0.0026 ppm	-0.0070 ppm
Concentration per Run 2	0.0004 ppm	0.0006 ppm	0.2477 ppm	0.0002 ppm	0.0022 ppm	0.0028 ppm	-0.0066 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.2324 ppm	-0.0001 ppm	0.0022 ppm	0.0034 ppm	-0.0066 ppm
Concentration RSD	73.7 %	22.2 %	6.6 %	20,387.4 %	0.7 %	15.0 %	3.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0032 ppm	0.0005 ppm	0.0009 ppm	0.0040 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 1	0.0028 ppm	0.0008 ppm	0.0010 ppm	0.0040 ppm	0.0013 ppm	0.0003 ppm	0.0010 ppm
Concentration per Run 2	0.0036 ppm	0.0005 ppm	0.0009 ppm	0.0043 ppm	-0.0009 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 3	0.0033 ppm	0.0003 ppm	0.0009 ppm	0.0038 ppm	-0.0001 ppm	0.0004 ppm	0.0011 ppm
Concentration RSD	12.7 %	47.1 %	5.3 %	6.4 %	824.8 %	18.1 %	3.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.7884 %	85.5440 %	86.4273 %	79.3932 %	90.0475 %	83.7696 %	-0.1664 ppm
Concentration per Run 1	94.7026 %	85.6163 %	86.2588 %	76.0410 %	90.1981 %	83.6818 %	-0.1782 ppm
Concentration per Run 2	96.4926 %	85.4735 %	86.4454 %	80.4819 %	89.8401 %	83.7278 %	-0.1625 ppm
Concentration per Run 3	96.1699 %	85.5422 %	86.5776 %	81.6567 %	90.1044 %	83.8993 %	-0.1586 ppm
Concentration RSD	1.0 %	0.1 %	0.2 %	3.7 %	0.2 %	0.1 %	6.2 %

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/19/2024 6:44:42 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4958 ppm	0.4841 ppm	0.4768 ppm	0.4718 ppm	0.4959 ppm	0.5054 ppm	0.5026 ppm
Concentration per Run 1	0.4962 ppm	0.5016 ppm	0.4740 ppm	0.4712 ppm	0.5129 ppm	0.5225 ppm	0.5182 ppm
Concentration per Run 2	0.4964 ppm	0.4756 ppm	0.4722 ppm	0.4640 ppm	0.4880 ppm	0.4984 ppm	0.4996 ppm
Concentration per Run 3	0.4948 ppm	0.4750 ppm	0.4842 ppm	0.4803 ppm	0.4868 ppm	0.4952 ppm	0.4900 ppm
Recovery Percentage 1	99.158 %	96.812 %	95.366 %	94.369 %	99.184 %	101.077 %	100.522 %
Concentration RSD	0.2 %	3.1 %	1.4 %	1.7 %	3.0 %	3.0 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4750 ppm	0.4799 ppm	0.4835 ppm	0.4790 ppm	0.5107 ppm	5.4190 ppm	0.4974 ppm
Concentration per Run 1	0.4753 ppm	0.4800 ppm	0.4845 ppm	0.4784 ppm	0.5262 ppm	5.5798 ppm	0.4999 ppm
Concentration per Run 2	0.4668 ppm	0.4719 ppm	0.4830 ppm	0.4796 ppm	0.5059 ppm	5.3475 ppm	0.4954 ppm
Concentration per Run 3	0.4828 ppm	0.4878 ppm	0.4831 ppm	0.4791 ppm	0.5000 ppm	5.3297 ppm	0.4970 ppm
Recovery Percentage 1	94.998 %	95.981 %	96.705 %	95.805 %	102.145 %	108.381 %	99.487 %
Concentration RSD	1.7 %	1.7 %	0.2 %	0.1 %	2.7 %	2.6 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4974 ppm	0.4728 ppm	10.1350 ppm	0.4875 ppm	0.4945 ppm	0.4842 ppm	0.4772 ppm
Concentration per Run 1	0.5147 ppm	0.4721 ppm	10.4614 ppm	0.4878 ppm	0.4938 ppm	0.4841 ppm	0.4772 ppm
Concentration per Run 2	0.4915 ppm	0.4637 ppm	9.9984 ppm	0.4788 ppm	0.4858 ppm	0.4750 ppm	0.4689 ppm
Concentration per Run 3	0.4861 ppm	0.4828 ppm	9.9453 ppm	0.4959 ppm	0.5039 ppm	0.4936 ppm	0.4854 ppm
Recovery Percentage 1	99.486 %	94.569 %	101.350 %	97.491 %	98.901 %	96.848 %	95.436 %
Concentration RSD	3.1 %	2.0 %	2.8 %	1.8 %	1.8 %	1.9 %	1.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9096 ppm	0.4957 ppm	0.4914 ppm	0.4984 ppm	0.4984 ppm	0.4824 ppm	0.4745 ppm
Concentration per Run 1	4.9020 ppm	0.4968 ppm	0.5076 ppm	0.4983 ppm	0.4992 ppm	0.4819 ppm	0.4750 ppm
Concentration per Run 2	4.8252 ppm	0.4869 ppm	0.4842 ppm	0.4983 ppm	0.4892 ppm	0.4824 ppm	0.4664 ppm
Concentration per Run 3	5.0016 ppm	0.5035 ppm	0.4825 ppm	0.4986 ppm	0.5067 ppm	0.4828 ppm	0.4822 ppm
Recovery Percentage 1	93.516 %	99.149 %	98.289 %	99.682 %	99.675 %	96.480 %	94.906 %
Concentration RSD	1.8 %	1.7 %	2.8 %	0.0 %	1.8 %	0.1 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3937 %	99.9820 %	100.6694 %	90.2192 %	97.0836 %	100.2092 %	0.4943 ppm
Concentration per Run 1	97.7600 %	99.9131 %	101.0751 %	87.7526 %	97.1046 %	100.1891 %	0.5102 ppm
Concentration per Run 2	101.6696 %	99.8470 %	101.6210 %	91.1115 %	98.8120 %	100.0899 %	0.4866 ppm
Concentration per Run 3	101.7515 %	100.1860 %	99.3121 %	91.7935 %	95.3342 %	100.3487 %	0.4861 ppm
Recovery Percentage 1							98.862 %
Concentration RSD	2.3 %	0.2 %	1.2 %	2.4 %	1.8 %	0.1 %	2.8 %

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/19/2024 6:51:01 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0010 ppm	0.0006 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	-0.0001 ppm	0.0019 ppm	0.0007 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	-0.0031 ppm	0.0012 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 3	-0.0001 ppm	0.0042 ppm	-0.0002 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Recovery Percentage 1	-0.891 %	0.000 %	11.595 %	7.065 %	-0.439 %	0.726 %	0.001 %
Concentration RSD	92.0 %	368.7 %	120.5 %	7.7 %	60.4 %	62.9 %	38.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm	0.1221 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm	0.1236 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0024 ppm	0.1244 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.1181 ppm	-0.0010 ppm
Recovery Percentage 1	-0.230 %	-0.143 %	1.278 %	0.157 %	0.001 %	4.883 %	0.000 %
Concentration RSD	230.1 %	440.9 %	133.5 %	430.0 %	76.8 %	2.8 %	560.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0324 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0323 ppm	0.0001 ppm	-0.0003 ppm	0.0009 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0325 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0324 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	0.386 %	0.706 %	1.620 %	0.348 %	-1.858 %	0.844 %	-2.725 %
Concentration RSD	319.4 %	14.3 %	0.2 %	122.3 %	40.2 %	108.7 %	210.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0015 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	0.108 %	0.112 %	0.347 %	1.467 %	0.388 %	-1.162 %	9.273 %
Concentration RSD	44.2 %	469.1 %	66.2 %	48.6 %	1,828.6 %	60.3 %	13.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9041 %	101.8584 %	101.8750 %	84.4220 %	100.6897 %	99.6083 %	0.0025 ppm
Concentration per Run 1	98.9610 %	101.5923 %	101.8155 %	80.4528 %	100.7727 %	99.2692 %	0.0025 ppm
Concentration per Run 2	102.0179 %	102.0272 %	101.8737 %	85.8038 %	100.7563 %	99.7839 %	0.0012 ppm
Concentration per Run 3	101.7334 %	101.9557 %	101.9358 %	87.0096 %	100.5400 %	99.7716 %	0.0037 ppm
Recovery Percentage 1							24.886 %
Concentration RSD	1.7 %	0.2 %	0.1 %	4.1 %	0.1 %	0.3 %	50.2 %

LabBook: WG1936225_06192024T6B.imexp

Sample: WG1936221-1 WG1936221
Analysis started at: 6/19/2024 7:19:54 PM
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0079 ppm	-0.0003 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0194 ppm
Concentration per Run 1	-0.0002 ppm	0.0056 ppm	-0.0003 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0193 ppm
Concentration per Run 2	0.0000 ppm	0.0104 ppm	-0.0005 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0182 ppm
Concentration per Run 3	-0.0003 ppm	0.0077 ppm	-0.0001 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0209 ppm
Recovery Percentage 1	-2.492 %	0.002 %	-6.026 %	4.379 %	0.628 %	0.229 %	0.004 %
Concentration RSD	98.1 %	30.7 %	62.0 %	3.1 %	159.6 %	102.3 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0235 ppm	0.0996 ppm	0.0052 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0005 ppm	0.0239 ppm	0.1169 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0004 ppm	0.0228 ppm	0.1074 ppm	0.0058 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0007 ppm	0.0238 ppm	0.0745 ppm	0.0057 ppm
Recovery Percentage 1	0.326 %	-0.354 %	6.355 %	5.401 %	0.012 %	3.983 %	0.001 %
Concentration RSD	116.4 %	96.9 %	9.1 %	24.5 %	2.5 %	22.4 %	16.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0015 ppm	0.0000 ppm	0.0421 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 1	0.0015 ppm	-0.0001 ppm	0.0441 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0017 ppm
Concentration per Run 2	0.0015 ppm	0.0001 ppm	0.0405 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	0.0000 ppm	0.0418 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0014 ppm
Recovery Percentage 1	14.627 %	-0.025 %	2.107 %	0.032 %	-0.566 %	1.305 %	10.296 %
Concentration RSD	3.7 %	779.9 %	4.3 %	1,443.3 %	104.5 %	82.5 %	85.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0114 ppm	0.0009 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	0.0131 ppm	0.0012 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 2	0.0115 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 3	0.0096 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm
Recovery Percentage 1	2.283 %	1.801 %	0.397 %	3.472 %	-0.635 %	-0.610 %	21.524 %
Concentration RSD	15.2 %	27.8 %	88.8 %	24.7 %	233.7 %	325.5 %	5.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7657 %	98.1512 %	105.7421 %	87.5763 %	98.3181 %	102.3809 %	0.0032 ppm
Concentration per Run 1	95.5270 %	97.9359 %	105.7289 %	83.6655 %	97.9017 %	102.3093 %	0.0031 ppm
Concentration per Run 2	99.6945 %	98.4125 %	105.9047 %	88.4847 %	98.6817 %	102.6190 %	0.0035 ppm
Concentration per Run 3	101.0756 %	98.1052 %	105.5926 %	90.5785 %	98.3710 %	102.2142 %	0.0030 ppm
Recovery Percentage 1							31.854 %
Concentration RSD	2.9 %	0.2 %	0.1 %	4.0 %	0.4 %	0.2 %	9.1 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: WG1936221-2d2 WG1936221
Analysis started at: 6/19/2024 7:26:35 PM
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3086 ppm	15.3369 ppm	0.9944 ppm	0.8128 ppm	1.1047 ppm	0.6034 ppm	18.7268 ppm
Concentration per Run 1	0.3084 ppm	16.0527 ppm	0.9949 ppm	0.8138 ppm	1.1563 ppm	0.6318 ppm	19.6020 ppm
Concentration per Run 2	0.3081 ppm	15.0839 ppm	0.9917 ppm	0.8132 ppm	1.0852 ppm	0.5923 ppm	18.4206 ppm
Concentration per Run 3	0.3093 ppm	14.8739 ppm	0.9965 ppm	0.8113 ppm	1.0727 ppm	0.5862 ppm	18.1578 ppm
Concentration RSD	0.2 %	4.1 %	0.3 %	0.2 %	4.1 %	4.1 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.7782 ppm	0.2852 ppm	0.6243 ppm	0.7343 ppm	20.1581 ppm	4.2244 ppm	5.0346 ppm
Concentration per Run 1	0.7792 ppm	0.2851 ppm	0.6234 ppm	0.7336 ppm	21.0873 ppm	4.4117 ppm	5.0279 ppm
Concentration per Run 2	0.7786 ppm	0.2854 ppm	0.6222 ppm	0.7352 ppm	19.8237 ppm	4.1565 ppm	5.0190 ppm
Concentration per Run 3	0.7769 ppm	0.2852 ppm	0.6273 ppm	0.7340 ppm	19.5635 ppm	4.1049 ppm	5.0570 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %	0.1 %	4.0 %	3.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.9759 ppm	0.4945 ppm	6.9782 ppm	1.1300 ppm	0.3410 ppm	0.7200 ppm	0.6003 ppm
Concentration per Run 1	2.0673 ppm	0.4934 ppm	7.3032 ppm	1.1314 ppm	0.3415 ppm	0.7212 ppm	0.6007 ppm
Concentration per Run 2	1.9440 ppm	0.4957 ppm	6.8600 ppm	1.1302 ppm	0.3411 ppm	0.7211 ppm	0.5999 ppm
Concentration per Run 3	1.9166 ppm	0.4945 ppm	6.7713 ppm	1.1282 ppm	0.3404 ppm	0.7178 ppm	0.6002 ppm
Concentration RSD	4.1 %	0.2 %	4.1 %	0.1 %	0.2 %	0.3 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.2716 ppm	0.2733 ppm	0.4776 ppm	1.0793 ppm	0.7839 ppm	0.3660 ppm	0.5765 ppm
Concentration per Run 1	6.2870 ppm	0.2741 ppm	0.5002 ppm	1.0779 ppm	0.7840 ppm	0.3660 ppm	0.5767 ppm
Concentration per Run 2	6.3043 ppm	0.2723 ppm	0.4691 ppm	1.0795 ppm	0.7853 ppm	0.3656 ppm	0.5769 ppm
Concentration per Run 3	6.2235 ppm	0.2734 ppm	0.4634 ppm	1.0806 ppm	0.7823 ppm	0.3664 ppm	0.5758 ppm
Concentration RSD	0.7 %	0.3 %	4.1 %	0.1 %	0.2 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.8646 %	100.2726 %	107.6717 %	89.0293 %	94.9422 %	100.1041 %	0.4865 ppm
Concentration per Run 1	102.3060 %	100.0270 %	107.7399 %	85.6516 %	94.7382 %	99.9883 %	0.5081 ppm
Concentration per Run 2	105.9826 %	100.6360 %	107.7103 %	90.0235 %	94.8941 %	100.4153 %	0.4774 ppm
Concentration per Run 3	106.3053 %	100.1549 %	107.5649 %	91.4127 %	95.1944 %	99.9089 %	0.4740 ppm
Concentration RSD	2.1 %	0.3 %	0.1 %	3.4 %	0.2 %	0.3 %	3.9 %

LabBook: WG1936225_06192024T6B.imexp

Sample: WG1936221-3d2 WG1936221
Analysis started at: 6/19/2024 7:32:51 PM
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3150 ppm	15.9562 ppm	1.0223 ppm	0.8456 ppm	1.0828 ppm	0.6309 ppm	19.3439 ppm
Concentration per Run 1	0.3153 ppm	16.6941 ppm	1.0226 ppm	0.8450 ppm	1.1303 ppm	0.6587 ppm	20.2475 ppm
Concentration per Run 2	0.3146 ppm	15.6774 ppm	1.0212 ppm	0.8440 ppm	1.0663 ppm	0.6213 ppm	19.0094 ppm
Concentration per Run 3	0.3152 ppm	15.4970 ppm	1.0229 ppm	0.8479 ppm	1.0517 ppm	0.6128 ppm	18.7748 ppm
Concentration RSD	0.1 %	4.0 %	0.1 %	0.2 %	3.9 %	3.9 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.7944 ppm	0.2945 ppm	0.6396 ppm	0.7638 ppm	21.3038 ppm	4.3575 ppm	5.1795 ppm
Concentration per Run 1	0.7942 ppm	0.2944 ppm	0.6369 ppm	0.7651 ppm	22.2398 ppm	4.5464 ppm	5.1477 ppm
Concentration per Run 2	0.7944 ppm	0.2943 ppm	0.6430 ppm	0.7623 ppm	20.9780 ppm	4.3059 ppm	5.2113 ppm
Concentration per Run 3	0.7947 ppm	0.2947 ppm	0.6389 ppm	0.7641 ppm	20.6936 ppm	4.2201 ppm	5.1794 ppm
Concentration RSD	0.0 %	0.1 %	0.5 %	0.2 %	3.9 %	3.9 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.0679 ppm	0.5107 ppm	6.9145 ppm	1.1651 ppm	0.3503 ppm	0.7503 ppm	0.6282 ppm
Concentration per Run 1	2.1604 ppm	0.5091 ppm	7.2128 ppm	1.1648 ppm	0.3504 ppm	0.7486 ppm	0.6281 ppm
Concentration per Run 2	2.0348 ppm	0.5105 ppm	6.8034 ppm	1.1651 ppm	0.3497 ppm	0.7499 ppm	0.6284 ppm
Concentration per Run 3	2.0086 ppm	0.5126 ppm	6.7274 ppm	1.1653 ppm	0.3506 ppm	0.7525 ppm	0.6281 ppm
Concentration RSD	3.9 %	0.3 %	3.8 %	0.0 %	0.1 %	0.3 %	0.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.1353 ppm	0.2790 ppm	0.4867 ppm	1.1054 ppm	0.7970 ppm	0.3790 ppm	0.5917 ppm
Concentration per Run 1	6.1792 ppm	0.2786 ppm	0.5081 ppm	1.1079 ppm	0.7981 ppm	0.3782 ppm	0.5907 ppm
Concentration per Run 2	6.1206 ppm	0.2789 ppm	0.4797 ppm	1.1051 ppm	0.7957 ppm	0.3793 ppm	0.5925 ppm
Concentration per Run 3	6.1060 ppm	0.2793 ppm	0.4723 ppm	1.1033 ppm	0.7974 ppm	0.3794 ppm	0.5919 ppm
Concentration RSD	0.6 %	0.1 %	3.9 %	0.2 %	0.2 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	105.7776 %	101.5068 %	107.6522 %	88.9493 %	94.6592 %	100.4416 %	0.4983 ppm
Concentration per Run 1	102.3252 %	101.5526 %	107.4869 %	85.3217 %	94.6126 %	100.4022 %	0.5195 ppm
Concentration per Run 2	107.8055 %	101.3960 %	107.8357 %	90.3436 %	94.7621 %	100.3442 %	0.4908 ppm
Concentration per Run 3	107.2020 %	101.5718 %	107.6339 %	91.1828 %	94.6029 %	100.5785 %	0.4847 ppm
Concentration RSD	2.8 %	0.1 %	0.2 %	3.6 %	0.1 %	0.1 %	3.7 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-01d2 WG1936221
Analysis started at: 6/19/2024 7:39:07 PM
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0068 ppm	61.2392 ppm	0.0539 ppm	0.0107 ppm	0.2502 ppm	0.0017 ppm	10.1623 ppm
Concentration per Run 1	0.0070 ppm	62.0778 ppm	0.0538 ppm	0.0110 ppm	0.2537 ppm	0.0017 ppm	10.2958 ppm
Concentration per Run 2	0.0067 ppm	60.8193 ppm	0.0530 ppm	0.0102 ppm	0.2486 ppm	0.0017 ppm	10.0967 ppm
Concentration per Run 3	0.0067 ppm	60.8205 ppm	0.0549 ppm	0.0108 ppm	0.2483 ppm	0.0017 ppm	10.0944 ppm
Concentration RSD	2.0 %	1.2 %	1.8 %	3.8 %	1.2 %	1.3 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0030 ppm	0.0589 ppm	0.1156 ppm	0.2347 ppm	153.5372 ppm	7.0678 ppm	20.0129 ppm
Concentration per Run 1	0.0030 ppm	0.0587 ppm	0.1156 ppm	0.2349 ppm	154.7865 ppm	7.1440 ppm	20.0039 ppm
Concentration per Run 2	0.0029 ppm	0.0589 ppm	0.1155 ppm	0.2348 ppm	153.0389 ppm	7.0199 ppm	20.0583 ppm
Concentration per Run 3	0.0030 ppm	0.0590 ppm	0.1156 ppm	0.2346 ppm	152.7861 ppm	7.0395 ppm	19.9765 ppm
Concentration RSD	1.6 %	0.3 %	0.1 %	0.1 %	0.7 %	0.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.9758 ppm	0.0051 ppm	0.4841 ppm	0.1278 ppm	3.8384 ppm	0.0100 ppm	0.0068 ppm
Concentration per Run 1	3.0143 ppm	0.0052 ppm	0.4972 ppm	0.1277 ppm	3.8370 ppm	0.0101 ppm	0.0060 ppm
Concentration per Run 2	2.9593 ppm	0.0050 ppm	0.4746 ppm	0.1278 ppm	3.8300 ppm	0.0097 ppm	0.0071 ppm
Concentration per Run 3	2.9538 ppm	0.0050 ppm	0.4805 ppm	0.1278 ppm	3.8482 ppm	0.0104 ppm	0.0073 ppm
Concentration RSD	1.1 %	1.9 %	2.4 %	0.0 %	0.2 %	3.6 %	10.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.1883 ppm	0.0769 ppm	0.0666 ppm	2.7579 ppm	0.0012 ppm	0.1729 ppm	0.7125 ppm
Concentration per Run 1	4.2125 ppm	0.0777 ppm	0.0676 ppm	2.7588 ppm	0.0003 ppm	0.1732 ppm	0.7108 ppm
Concentration per Run 2	4.1853 ppm	0.0764 ppm	0.0661 ppm	2.7600 ppm	0.0016 ppm	0.1726 ppm	0.7114 ppm
Concentration per Run 3	4.1669 ppm	0.0765 ppm	0.0661 ppm	2.7550 ppm	0.0018 ppm	0.1729 ppm	0.7154 ppm
Concentration RSD	0.5 %	1.0 %	1.3 %	0.1 %	64.8 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	115.4795 %	107.2390 %	113.8726 %	94.3431 %	91.0988 %	101.0647 %	0.0872 ppm
Concentration per Run 1	114.8049 %	107.1403 %	114.0063 %	93.6380 %	91.1394 %	100.9546 %	0.0889 ppm
Concentration per Run 2	116.4235 %	107.1175 %	113.6801 %	95.1109 %	91.2262 %	100.9164 %	0.0865 ppm
Concentration per Run 3	115.2101 %	107.4594 %	113.9312 %	94.2805 %	90.9309 %	101.3232 %	0.0863 ppm
Concentration RSD	0.7 %	0.2 %	0.2 %	0.8 %	0.2 %	0.2 %	1.7 %

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LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-02d2 WG1936221
Analysis started at: 6/19/2024 7:45:42 PM
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	29.7275 ppm	0.0131 ppm	0.0022 ppm	0.1888 ppm	0.0007 ppm	8.6246 ppm
Concentration per Run 1	-0.0007 ppm	30.7662 ppm	0.0131 ppm	0.0019 ppm	0.1949 ppm	0.0008 ppm	8.9498 ppm
Concentration per Run 2	-0.0008 ppm	29.3020 ppm	0.0131 ppm	0.0023 ppm	0.1865 ppm	0.0007 ppm	8.4686 ppm
Concentration per Run 3	-0.0008 ppm	29.1144 ppm	0.0131 ppm	0.0024 ppm	0.1850 ppm	0.0007 ppm	8.4555 ppm
Concentration RSD	8.7 %	3.0 %	0.3 %	9.9 %	2.8 %	4.2 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	0.0425 ppm	0.0474 ppm	0.1074 ppm	85.5781 ppm	5.4872 ppm	13.7380 ppm
Concentration per Run 1	0.0005 ppm	0.0424 ppm	0.0474 ppm	0.1075 ppm	88.5675 ppm	5.6693 ppm	13.7237 ppm
Concentration per Run 2	0.0005 ppm	0.0427 ppm	0.0470 ppm	0.1072 ppm	84.2617 ppm	5.3971 ppm	13.7500 ppm
Concentration per Run 3	0.0006 ppm	0.0425 ppm	0.0478 ppm	0.1074 ppm	83.9051 ppm	5.3952 ppm	13.7405 ppm
Concentration RSD	2.7 %	0.5 %	0.8 %	0.1 %	3.0 %	2.9 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4453 ppm	0.0012 ppm	0.3902 ppm	0.0992 ppm	0.0211 ppm	-0.0003 ppm	0.0024 ppm
Concentration per Run 1	1.4945 ppm	0.0011 ppm	0.4007 ppm	0.0993 ppm	0.0209 ppm	-0.0004 ppm	0.0014 ppm
Concentration per Run 2	1.4241 ppm	0.0011 ppm	0.3865 ppm	0.0993 ppm	0.0211 ppm	-0.0005 ppm	0.0035 ppm
Concentration per Run 3	1.4172 ppm	0.0012 ppm	0.3834 ppm	0.0992 ppm	0.0213 ppm	-0.0001 ppm	0.0024 ppm
Concentration RSD	3.0 %	6.1 %	2.4 %	0.1 %	1.2 %	65.2 %	43.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.2809 ppm	0.0014 ppm	0.0307 ppm	1.5704 ppm	-0.0008 ppm	0.0856 ppm	0.1688 ppm
Concentration per Run 1	2.2894 ppm	0.0016 ppm	0.0315 ppm	1.5687 ppm	-0.0005 ppm	0.0853 ppm	0.1683 ppm
Concentration per Run 2	2.2792 ppm	0.0010 ppm	0.0304 ppm	1.5722 ppm	-0.0018 ppm	0.0857 ppm	0.1693 ppm
Concentration per Run 3	2.2741 ppm	0.0015 ppm	0.0301 ppm	1.5704 ppm	-0.0003 ppm	0.0856 ppm	0.1687 ppm
Concentration RSD	0.3 %	23.8 %	2.4 %	0.1 %	96.5 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	114.0276 %	107.9467 %	115.1572 %	91.4404 %	94.5380 %	100.7023 %	0.0471 ppm
Concentration per Run 1	110.6652 %	108.0848 %	115.1025 %	88.6187 %	94.4628 %	100.7485 %	0.0484 ppm
Concentration per Run 2	116.0011 %	107.8499 %	115.0386 %	92.9007 %	94.3724 %	100.6742 %	0.0465 ppm
Concentration per Run 3	115.4165 %	107.9055 %	115.3303 %	92.8019 %	94.7788 %	100.6842 %	0.0463 ppm
Concentration RSD	2.6 %	0.1 %	0.1 %	2.7 %	0.2 %	0.0 %	2.4 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-03d2 WG1936221
Analysis started at: 6/19/2024 7:52:10 PM
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0014 ppm	82.1156 ppm	0.0389 ppm	0.0036 ppm	0.2724 ppm	0.0021 ppm	16.6958 ppm
Concentration per Run 1	-0.0016 ppm	83.1834 ppm	0.0383 ppm	0.0037 ppm	0.2761 ppm	0.0021 ppm	16.8989 ppm
Concentration per Run 2	-0.0014 ppm	81.7358 ppm	0.0392 ppm	0.0035 ppm	0.2705 ppm	0.0021 ppm	16.6215 ppm
Concentration per Run 3	-0.0012 ppm	81.4274 ppm	0.0391 ppm	0.0035 ppm	0.2705 ppm	0.0021 ppm	16.5672 ppm
Concentration RSD	15.1 %	1.1 %	1.4 %	4.1 %	1.2 %	1.9 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0631 ppm	0.1114 ppm	0.1691 ppm	175.7763 ppm	14.8893 ppm	31.1802 ppm
Concentration per Run 1	0.0007 ppm	0.0630 ppm	0.1120 ppm	0.1689 ppm	178.6118 ppm	15.0679 ppm	31.2034 ppm
Concentration per Run 2	0.0009 ppm	0.0630 ppm	0.1109 ppm	0.1690 ppm	174.6176 ppm	14.8350 ppm	31.1054 ppm
Concentration per Run 3	0.0009 ppm	0.0632 ppm	0.1115 ppm	0.1692 ppm	174.0995 ppm	14.7651 ppm	31.2319 ppm
Concentration RSD	9.3 %	0.1 %	0.5 %	0.1 %	1.4 %	1.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.8968 ppm	0.0037 ppm	0.7820 ppm	0.1461 ppm	0.0465 ppm	0.0004 ppm	0.0051 ppm
Concentration per Run 1	2.9323 ppm	0.0038 ppm	0.7857 ppm	0.1458 ppm	0.0460 ppm	-0.0008 ppm	0.0062 ppm
Concentration per Run 2	2.8829 ppm	0.0036 ppm	0.7784 ppm	0.1462 ppm	0.0463 ppm	0.0014 ppm	0.0053 ppm
Concentration per Run 3	2.8750 ppm	0.0037 ppm	0.7818 ppm	0.1464 ppm	0.0471 ppm	0.0007 ppm	0.0039 ppm
Concentration RSD	1.1 %	2.4 %	0.5 %	0.2 %	1.3 %	254.8 %	22.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.0589 ppm	0.0028 ppm	0.0485 ppm	2.7537 ppm	-0.0007 ppm	0.1997 ppm	0.3640 ppm
Concentration per Run 1	6.1703 ppm	0.0032 ppm	0.0493 ppm	2.7578 ppm	-0.0003 ppm	0.2000 ppm	0.3639 ppm
Concentration per Run 2	6.0989 ppm	0.0031 ppm	0.0481 ppm	2.7519 ppm	-0.0014 ppm	0.1991 ppm	0.3644 ppm
Concentration per Run 3	5.9075 ppm	0.0022 ppm	0.0481 ppm	2.7513 ppm	-0.0003 ppm	0.1998 ppm	0.3638 ppm
Concentration RSD	2.2 %	18.3 %	1.4 %	0.1 %	96.6 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	126.6525 %	116.8377 %	124.2085 %	94.4029 %	90.8357 %	101.2273 %	0.1401 ppm
Concentration per Run 1	125.5424 %	116.8068 %	124.2949 %	93.5584 %	91.0572 %	101.1465 %	0.1413 ppm
Concentration per Run 2	126.8578 %	116.9354 %	124.0637 %	94.5155 %	90.7585 %	101.3221 %	0.1398 ppm
Concentration per Run 3	127.5572 %	116.7711 %	124.2668 %	95.1347 %	90.6914 %	101.2132 %	0.1392 ppm
Concentration RSD	0.8 %	0.1 %	0.1 %	0.8 %	0.2 %	0.1 %	0.8 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-04d2 WG1936221
Analysis started at: 6/19/2024 7:58:46 PM
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0014 ppm	90.1419 ppm	0.0366 ppm	0.0078 ppm	0.3078 ppm	0.0020 ppm	15.1144 ppm
Concentration per Run 1	-0.0015 ppm	91.3416 ppm	0.0360 ppm	0.0083 ppm	0.3118 ppm	0.0021 ppm	15.3007 ppm
Concentration per Run 2	-0.0014 ppm	89.6194 ppm	0.0370 ppm	0.0071 ppm	0.3060 ppm	0.0020 ppm	15.0403 ppm
Concentration per Run 3	-0.0013 ppm	89.4648 ppm	0.0370 ppm	0.0081 ppm	0.3055 ppm	0.0020 ppm	15.0023 ppm
Concentration RSD	7.3 %	1.2 %	1.5 %	8.2 %	1.1 %	1.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0679 ppm	0.1259 ppm	0.1708 ppm	180.4833 ppm	15.6804 ppm	34.4385 ppm
Concentration per Run 1	0.0009 ppm	0.0678 ppm	0.1262 ppm	0.1708 ppm	182.0162 ppm	15.8432 ppm	34.3838 ppm
Concentration per Run 2	0.0009 ppm	0.0677 ppm	0.1262 ppm	0.1705 ppm	180.3187 ppm	15.5991 ppm	34.5505 ppm
Concentration per Run 3	0.0010 ppm	0.0681 ppm	0.1254 ppm	0.1712 ppm	179.1150 ppm	15.5989 ppm	34.3813 ppm
Concentration RSD	6.2 %	0.3 %	0.3 %	0.2 %	0.8 %	0.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.9845 ppm	0.0036 ppm	0.9262 ppm	0.1540 ppm	0.0725 ppm	0.0002 ppm	0.0048 ppm
Concentration per Run 1	3.0182 ppm	0.0036 ppm	0.9362 ppm	0.1535 ppm	0.0719 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 2	2.9723 ppm	0.0037 ppm	0.9223 ppm	0.1540 ppm	0.0724 ppm	0.0008 ppm	0.0051 ppm
Concentration per Run 3	2.9629 ppm	0.0035 ppm	0.9200 ppm	0.1546 ppm	0.0731 ppm	-0.0002 ppm	0.0043 ppm
Concentration RSD	1.0 %	3.1 %	0.9 %	0.4 %	0.8 %	253.8 %	9.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.5826 ppm	0.0048 ppm	0.0482 ppm	2.9392 ppm	-0.0006 ppm	0.2118 ppm	0.4069 ppm
Concentration per Run 1	9.7566 ppm	0.0049 ppm	0.0488 ppm	2.9377 ppm	-0.0003 ppm	0.2121 ppm	0.4061 ppm
Concentration per Run 2	9.6062 ppm	0.0044 ppm	0.0479 ppm	2.9417 ppm	-0.0009 ppm	0.2118 ppm	0.4075 ppm
Concentration per Run 3	9.3849 ppm	0.0049 ppm	0.0480 ppm	2.9382 ppm	-0.0006 ppm	0.2116 ppm	0.4071 ppm
Concentration RSD	2.0 %	6.2 %	1.0 %	0.1 %	45.2 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	126.5281 %	115.7086 %	123.7981 %	94.8463 %	90.7172 %	101.3232 %	0.1516 ppm
Concentration per Run 1	125.7031 %	115.7057 %	123.7698 %	94.0364 %	90.8233 %	101.3506 %	0.1530 ppm
Concentration per Run 2	127.0620 %	115.6000 %	123.9697 %	95.3062 %	90.7396 %	101.3342 %	0.1498 ppm
Concentration per Run 3	126.8191 %	115.8201 %	123.6550 %	95.1963 %	90.5887 %	101.2850 %	0.1521 ppm
Concentration RSD	0.6 %	0.1 %	0.1 %	0.7 %	0.1 %	0.0 %	1.1 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-05d2 WG1936221
Analysis started at: 6/19/2024 8:05:22 PM
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	74.7592 ppm	0.0286 ppm	0.0040 ppm	0.2932 ppm	0.0019 ppm	8.3773 ppm
Concentration per Run 1	-0.0007 ppm	75.5623 ppm	0.0286 ppm	0.0040 ppm	0.2962 ppm	0.0019 ppm	8.4628 ppm
Concentration per Run 2	-0.0008 ppm	74.4750 ppm	0.0293 ppm	0.0039 ppm	0.2919 ppm	0.0019 ppm	8.3481 ppm
Concentration per Run 3	-0.0009 ppm	74.2402 ppm	0.0277 ppm	0.0041 ppm	0.2916 ppm	0.0019 ppm	8.3211 ppm
Concentration RSD	9.5 %	0.9 %	2.8 %	1.8 %	0.9 %	2.2 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0010 ppm	0.0624 ppm	0.1367 ppm	0.1676 ppm	147.6380 ppm	6.7465 ppm	27.8301 ppm
Concentration per Run 1	0.0009 ppm	0.0623 ppm	0.1374 ppm	0.1683 ppm	149.8372 ppm	6.7881 ppm	28.0120 ppm
Concentration per Run 2	0.0009 ppm	0.0624 ppm	0.1345 ppm	0.1646 ppm	146.9131 ppm	6.7160 ppm	27.3244 ppm
Concentration per Run 3	0.0010 ppm	0.0626 ppm	0.1382 ppm	0.1698 ppm	146.1638 ppm	6.7355 ppm	28.1539 ppm
Concentration RSD	6.9 %	0.2 %	1.4 %	1.6 %	1.3 %	0.6 %	1.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.7489 ppm	0.0037 ppm	0.5240 ppm	0.1537 ppm	0.5715 ppm	0.0030 ppm	0.0056 ppm
Concentration per Run 1	2.7834 ppm	0.0038 ppm	0.5299 ppm	0.1535 ppm	0.5713 ppm	0.0022 ppm	0.0055 ppm
Concentration per Run 2	2.7366 ppm	0.0036 ppm	0.5154 ppm	0.1535 ppm	0.5717 ppm	0.0043 ppm	0.0064 ppm
Concentration per Run 3	2.7266 ppm	0.0035 ppm	0.5268 ppm	0.1540 ppm	0.5715 ppm	0.0025 ppm	0.0048 ppm
Concentration RSD	1.1 %	4.6 %	1.5 %	0.2 %	0.0 %	36.9 %	14.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.6345 ppm	0.0129 ppm	0.0337 ppm	3.4492 ppm	-0.0002 ppm	0.1734 ppm	0.4646 ppm
Concentration per Run 1	4.7051 ppm	0.0131 ppm	0.0341 ppm	3.4649 ppm	-0.0009 ppm	0.1740 ppm	0.4634 ppm
Concentration per Run 2	4.6118 ppm	0.0126 ppm	0.0336 ppm	3.3878 ppm	-0.0002 ppm	0.1706 ppm	0.4652 ppm
Concentration per Run 3	4.5867 ppm	0.0130 ppm	0.0335 ppm	3.4950 ppm	0.0005 ppm	0.1757 ppm	0.4651 ppm
Concentration RSD	1.3 %	1.9 %	1.1 %	1.6 %	352.1 %	1.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	118.5264 %	109.4673 %	116.9838 %	94.2957 %	91.2312 %	101.6600 %	0.1173 ppm
Concentration per Run 1	118.2244 %	109.1557 %	117.0329 %	93.8065 %	91.2072 %	101.1173 %	0.1181 ppm
Concentration per Run 2	118.7183 %	110.2480 %	117.2366 %	94.4077 %	91.3632 %	103.4792 %	0.1169 ppm
Concentration per Run 3	118.6364 %	108.9981 %	116.6820 %	94.6729 %	91.1233 %	100.3836 %	0.1169 ppm
Concentration RSD	0.2 %	0.6 %	0.2 %	0.5 %	0.1 %	1.6 %	0.6 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-06d2 WG1936221
Analysis started at: 6/19/2024 8:11:59 PM
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	55.9277 ppm	0.0277 ppm	0.0058 ppm	0.5193 ppm	0.0014 ppm	19.5370 ppm
Concentration per Run 1	-0.0001 ppm	56.3135 ppm	0.0273 ppm	0.0059 ppm	0.5228 ppm	0.0014 ppm	19.7148 ppm
Concentration per Run 2	0.0001 ppm	55.7431 ppm	0.0270 ppm	0.0061 ppm	0.5179 ppm	0.0014 ppm	19.4781 ppm
Concentration per Run 3	-0.0003 ppm	55.7264 ppm	0.0288 ppm	0.0056 ppm	0.5172 ppm	0.0014 ppm	19.4181 ppm
Concentration RSD	202.5 %	0.6 %	3.5 %	3.9 %	0.6 %	1.3 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0036 ppm	0.0481 ppm	0.1023 ppm	0.1718 ppm	181.4018 ppm	5.9755 ppm	18.4692 ppm
Concentration per Run 1	0.0035 ppm	0.0483 ppm	0.1024 ppm	0.1716 ppm	182.5683 ppm	6.0036 ppm	18.4742 ppm
Concentration per Run 2	0.0036 ppm	0.0480 ppm	0.1024 ppm	0.1720 ppm	181.7358 ppm	5.9435 ppm	18.4995 ppm
Concentration per Run 3	0.0036 ppm	0.0480 ppm	0.1020 ppm	0.1718 ppm	179.9013 ppm	5.9795 ppm	18.4339 ppm
Concentration RSD	0.8 %	0.3 %	0.2 %	0.1 %	0.8 %	0.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.7816 ppm	0.0028 ppm	0.5680 ppm	0.1224 ppm	0.3822 ppm	0.0051 ppm	0.0049 ppm
Concentration per Run 1	2.8021 ppm	0.0027 ppm	0.5664 ppm	0.1226 ppm	0.3830 ppm	0.0051 ppm	0.0046 ppm
Concentration per Run 2	2.7689 ppm	0.0029 ppm	0.5672 ppm	0.1225 ppm	0.3827 ppm	0.0060 ppm	0.0041 ppm
Concentration per Run 3	2.7738 ppm	0.0028 ppm	0.5703 ppm	0.1220 ppm	0.3809 ppm	0.0042 ppm	0.0059 ppm
Concentration RSD	0.6 %	3.0 %	0.4 %	0.3 %	0.3 %	17.4 %	19.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1362 ppm	0.0248 ppm	0.0631 ppm	2.3373 ppm	0.0002 ppm	0.1604 ppm	4.1407 ppm
Concentration per Run 1	3.1594 ppm	0.0245 ppm	0.0637 ppm	2.3357 ppm	0.0001 ppm	0.1607 ppm	4.1472 ppm
Concentration per Run 2	3.1255 ppm	0.0249 ppm	0.0629 ppm	2.3386 ppm	0.0003 ppm	0.1605 ppm	4.1394 ppm
Concentration per Run 3	3.1236 ppm	0.0251 ppm	0.0627 ppm	2.3377 ppm	0.0000 ppm	0.1601 ppm	4.1354 ppm
Concentration RSD	0.6 %	1.2 %	0.8 %	0.1 %	114.6 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	115.4798 %	107.1633 %	111.3961 %	93.6903 %	90.3403 %	100.2399 %	0.1076 ppm
Concentration per Run 1	114.9491 %	107.1069 %	111.2654 %	93.4320 %	90.1562 %	100.2741 %	0.1083 ppm
Concentration per Run 2	115.7146 %	107.0527 %	111.4059 %	93.7803 %	90.3784 %	100.1088 %	0.1074 ppm
Concentration per Run 3	115.7758 %	107.3302 %	111.5171 %	93.8585 %	90.4864 %	100.3367 %	0.1073 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.2 %	0.2 %	0.1 %	0.5 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-07d2 WG1936221
Analysis started at: 6/19/2024 8:18:33 PM
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0014 ppm	90.2212 ppm	0.0260 ppm	0.0035 ppm	0.4837 ppm	0.0020 ppm	18.6841 ppm
Concentration per Run 1	-0.0016 ppm	91.3998 ppm	0.0266 ppm	0.0032 ppm	0.4898 ppm	0.0020 ppm	18.8826 ppm
Concentration per Run 2	-0.0013 ppm	89.7470 ppm	0.0253 ppm	0.0038 ppm	0.4806 ppm	0.0020 ppm	18.6067 ppm
Concentration per Run 3	-0.0014 ppm	89.5168 ppm	0.0263 ppm	0.0034 ppm	0.4807 ppm	0.0020 ppm	18.5628 ppm
Concentration RSD	9.0 %	1.1 %	2.5 %	7.9 %	1.1 %	0.8 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0010 ppm	0.0578 ppm	0.1263 ppm	0.1748 ppm	167.4390 ppm	21.7199 ppm	33.7979 ppm
Concentration per Run 1	0.0009 ppm	0.0578 ppm	0.1261 ppm	0.1752 ppm	169.2199 ppm	21.9329 ppm	33.7175 ppm
Concentration per Run 2	0.0010 ppm	0.0576 ppm	0.1265 ppm	0.1748 ppm	166.5962 ppm	21.6014 ppm	33.8129 ppm
Concentration per Run 3	0.0010 ppm	0.0578 ppm	0.1262 ppm	0.1744 ppm	166.5010 ppm	21.6253 ppm	33.8632 ppm
Concentration RSD	4.8 %	0.2 %	0.1 %	0.2 %	0.9 %	0.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.3611 ppm	0.0048 ppm	0.6901 ppm	0.1398 ppm	0.0595 ppm	0.0003 ppm	0.0033 ppm
Concentration per Run 1	2.3866 ppm	0.0048 ppm	0.6942 ppm	0.1400 ppm	0.0592 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 2	2.3550 ppm	0.0049 ppm	0.6872 ppm	0.1393 ppm	0.0590 ppm	-0.0002 ppm	0.0027 ppm
Concentration per Run 3	2.3417 ppm	0.0048 ppm	0.6891 ppm	0.1402 ppm	0.0604 ppm	0.0011 ppm	0.0047 ppm
Concentration RSD	1.0 %	1.7 %	0.5 %	0.3 %	1.2 %	265.1 %	37.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.5279 ppm	0.0033 ppm	0.0604 ppm	4.3833 ppm	0.0003 ppm	0.2344 ppm	0.3451 ppm
Concentration per Run 1	6.5056 ppm	0.0037 ppm	0.0612 ppm	4.3842 ppm	-0.0002 ppm	0.2345 ppm	0.3459 ppm
Concentration per Run 2	6.5122 ppm	0.0029 ppm	0.0602 ppm	4.3838 ppm	0.0009 ppm	0.2344 ppm	0.3451 ppm
Concentration per Run 3	6.5660 ppm	0.0032 ppm	0.0599 ppm	4.3818 ppm	0.0002 ppm	0.2343 ppm	0.3444 ppm
Concentration RSD	0.5 %	11.7 %	1.2 %	0.0 %	199.4 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	128.9792 %	117.5746 %	125.1121 %	95.4617 %	91.3579 %	101.6120 %	0.1394 ppm
Concentration per Run 1	128.2565 %	117.2635 %	125.2356 %	94.8439 %	91.4591 %	101.3715 %	0.1412 ppm
Concentration per Run 2	129.9770 %	117.8317 %	125.0715 %	95.8885 %	91.4890 %	101.7675 %	0.1385 ppm
Concentration per Run 3	128.7040 %	117.6288 %	125.0291 %	95.6526 %	91.1255 %	101.6969 %	0.1385 ppm
Concentration RSD	0.7 %	0.2 %	0.1 %	0.6 %	0.2 %	0.2 %	1.1 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/19/2024 8:25:08 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5121 ppm	0.4631 ppm	0.4525 ppm	0.4593 ppm	0.4782 ppm	0.4968 ppm	0.5241 ppm
Concentration per Run 1	0.5116 ppm	0.4811 ppm	0.4541 ppm	0.4589 ppm	0.4940 ppm	0.5127 ppm	0.5371 ppm
Concentration per Run 2	0.5123 ppm	0.4546 ppm	0.4519 ppm	0.4598 ppm	0.4716 ppm	0.4902 ppm	0.5211 ppm
Concentration per Run 3	0.5124 ppm	0.4537 ppm	0.4515 ppm	0.4591 ppm	0.4691 ppm	0.4876 ppm	0.5142 ppm
Recovery Percentage 1	102.423 %	92.620 %	90.495 %	91.852 %	95.647 %	99.364 %	104.824 %
Concentration RSD	0.1 %	3.4 %	0.3 %	0.1 %	2.9 %	2.8 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4830 ppm	0.4766 ppm	0.4667 ppm	0.4674 ppm	0.5165 ppm	5.5635 ppm	0.4918 ppm
Concentration per Run 1	0.4829 ppm	0.4761 ppm	0.4656 ppm	0.4680 ppm	0.5340 ppm	5.7260 ppm	0.4874 ppm
Concentration per Run 2	0.4832 ppm	0.4772 ppm	0.4682 ppm	0.4671 ppm	0.5082 ppm	5.4803 ppm	0.4963 ppm
Concentration per Run 3	0.4828 ppm	0.4764 ppm	0.4664 ppm	0.4672 ppm	0.5073 ppm	5.4842 ppm	0.4917 ppm
Recovery Percentage 1	96.592 %	95.315 %	93.348 %	93.484 %	103.298 %	111.270 %	98.356 %
Concentration RSD	0.0 %	0.1 %	0.3 %	0.1 %	2.9 %	2.5 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5180 ppm	0.4795 ppm	10.2534 ppm	0.4925 ppm	0.5028 ppm	0.4872 ppm	0.4832 ppm
Concentration per Run 1	0.5342 ppm	0.4776 ppm	10.5829 ppm	0.4916 ppm	0.5021 ppm	0.4860 ppm	0.4821 ppm
Concentration per Run 2	0.5117 ppm	0.4800 ppm	10.1076 ppm	0.4931 ppm	0.5030 ppm	0.4869 ppm	0.4821 ppm
Concentration per Run 3	0.5082 ppm	0.4808 ppm	10.0696 ppm	0.4929 ppm	0.5035 ppm	0.4887 ppm	0.4855 ppm
Recovery Percentage 1	103.602 %	95.893 %	102.534 %	98.506 %	100.570 %	97.443 %	96.646 %
Concentration RSD	2.7 %	0.3 %	2.8 %	0.2 %	0.1 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7497 ppm	0.4926 ppm	0.4897 ppm	0.5071 ppm	0.4952 ppm	0.4893 ppm	0.4743 ppm
Concentration per Run 1	4.7420 ppm	0.4921 ppm	0.5062 ppm	0.5070 ppm	0.4938 ppm	0.4886 ppm	0.4749 ppm
Concentration per Run 2	4.7558 ppm	0.4924 ppm	0.4823 ppm	0.5079 ppm	0.4965 ppm	0.4902 ppm	0.4736 ppm
Concentration per Run 3	4.7514 ppm	0.4934 ppm	0.4806 ppm	0.5064 ppm	0.4953 ppm	0.4890 ppm	0.4744 ppm
Recovery Percentage 1	90.471 %	98.526 %	97.943 %	101.419 %	99.041 %	97.853 %	94.859 %
Concentration RSD	0.1 %	0.1 %	2.9 %	0.1 %	0.3 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2857 %	97.6691 %	104.3810 %	89.6286 %	97.6077 %	100.9672 %	0.4930 ppm
Concentration per Run 1	97.9610 %	97.7810 %	104.4120 %	87.3297 %	97.8483 %	100.9205 %	0.5079 ppm
Concentration per Run 2	102.5029 %	97.6910 %	104.3305 %	90.3508 %	97.3952 %	100.9716 %	0.4866 ppm
Concentration per Run 3	103.3931 %	97.5355 %	104.4006 %	91.2054 %	97.5796 %	101.0094 %	0.4845 ppm
Recovery Percentage 1							98.601 %
Concentration RSD	2.9 %	0.1 %	0.0 %	2.3 %	0.2 %	0.0 %	2.6 %

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/19/2024 8:31:25 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0038 ppm	0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 1	0.0001 ppm	0.0022 ppm	0.0012 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0058 ppm
Concentration per Run 2	-0.0002 ppm	0.0047 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0047 ppm	0.0009 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0083 ppm
Recovery Percentage 1	-0.939 %	0.001 %	13.843 %	2.016 %	0.151 %	0.293 %	0.001 %
Concentration RSD	219.0 %	38.0 %	89.7 %	23.1 %	286.6 %	295.2 %	61.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0022 ppm	0.0525 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0015 ppm	0.0570 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0023 ppm	0.0598 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0027 ppm	0.0407 ppm	-0.0010 ppm
Recovery Percentage 1	0.443 %	0.182 %	2.410 %	1.499 %	0.001 %	2.100 %	0.000 %
Concentration RSD	104.9 %	347.9 %	53.9 %	92.4 %	28.1 %	19.7 %	492.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0076 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	-0.0124 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	-0.0044 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	-0.0059 ppm	0.0000 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	0.859 %	0.417 %	-0.379 %	0.261 %	-1.804 %	0.148 %	-2.437 %
Concentration RSD	321.5 %	11.4 %	55.8 %	186.6 %	144.0 %	665.0 %	167.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0021 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0021 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0021 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0002 ppm
Recovery Percentage 1	0.429 %	-0.187 %	0.452 %	0.898 %	3.437 %	-1.835 %	4.891 %
Concentration RSD	1.5 %	157.0 %	84.3 %	160.4 %	37.9 %	12.2 %	17.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7552 %	99.5512 %	105.3255 %	84.6447 %	100.7212 %	100.8656 %	0.0018 ppm
Concentration per Run 1	99.1633 %	99.5739 %	105.5158 %	80.7153 %	100.7431 %	100.8470 %	0.0016 ppm
Concentration per Run 2	103.3129 %	99.5985 %	105.3211 %	85.7340 %	100.6939 %	100.9714 %	0.0023 ppm
Concentration per Run 3	102.7895 %	99.4813 %	105.1397 %	87.4849 %	100.7266 %	100.7783 %	0.0014 ppm
Recovery Percentage 1							17.700 %
Concentration RSD	2.2 %	0.1 %	0.2 %	4.2 %	0.0 %	0.1 %	27.2 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/19/2024 8:40:53 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5120 ppm	0.4607 ppm	0.4523 ppm	0.4597 ppm	0.4735 ppm	0.4927 ppm	0.5058 ppm
Concentration per Run 1	0.5125 ppm	0.4714 ppm	0.4533 ppm	0.4589 ppm	0.4858 ppm	0.5064 ppm	0.5253 ppm
Concentration per Run 2	0.5121 ppm	0.4543 ppm	0.4510 ppm	0.4582 ppm	0.4683 ppm	0.4873 ppm	0.4963 ppm
Concentration per Run 3	0.5114 ppm	0.4563 ppm	0.4525 ppm	0.4620 ppm	0.4665 ppm	0.4846 ppm	0.4958 ppm
Recovery Percentage 1	102.401 %	92.139 %	90.457 %	91.943 %	94.704 %	98.546 %	101.156 %
Concentration RSD	0.1 %	2.0 %	0.3 %	0.4 %	2.3 %	2.4 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4826 ppm	0.4765 ppm	0.4688 ppm	0.4668 ppm	0.5071 ppm	5.3849 ppm	0.4931 ppm
Concentration per Run 1	0.4831 ppm	0.4760 ppm	0.4717 ppm	0.4667 ppm	0.5216 ppm	5.5338 ppm	0.4963 ppm
Concentration per Run 2	0.4812 ppm	0.4753 ppm	0.4680 ppm	0.4671 ppm	0.5010 ppm	5.3038 ppm	0.4937 ppm
Concentration per Run 3	0.4834 ppm	0.4782 ppm	0.4666 ppm	0.4666 ppm	0.4986 ppm	5.3171 ppm	0.4895 ppm
Recovery Percentage 1	96.512 %	95.306 %	93.750 %	93.364 %	101.412 %	107.698 %	98.629 %
Concentration RSD	0.2 %	0.3 %	0.6 %	0.1 %	2.5 %	2.4 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5140 ppm	0.4784 ppm	10.1416 ppm	0.4924 ppm	0.5024 ppm	0.4866 ppm	0.4825 ppm
Concentration per Run 1	0.5288 ppm	0.4767 ppm	10.4013 ppm	0.4922 ppm	0.5022 ppm	0.4855 ppm	0.4806 ppm
Concentration per Run 2	0.5082 ppm	0.4774 ppm	10.0394 ppm	0.4909 ppm	0.5013 ppm	0.4853 ppm	0.4825 ppm
Concentration per Run 3	0.5049 ppm	0.4811 ppm	9.9842 ppm	0.4940 ppm	0.5037 ppm	0.4890 ppm	0.4845 ppm
Recovery Percentage 1	102.794 %	95.679 %	101.416 %	98.475 %	100.484 %	97.325 %	96.504 %
Concentration RSD	2.5 %	0.5 %	2.2 %	0.3 %	0.2 %	0.4 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7534 ppm	0.4926 ppm	0.4857 ppm	0.5067 ppm	0.4952 ppm	0.4884 ppm	0.4746 ppm
Concentration per Run 1	4.7499 ppm	0.4925 ppm	0.4979 ppm	0.5080 ppm	0.4946 ppm	0.4903 ppm	0.4763 ppm
Concentration per Run 2	4.7573 ppm	0.4910 ppm	0.4801 ppm	0.5061 ppm	0.4948 ppm	0.4877 ppm	0.4723 ppm
Concentration per Run 3	4.7530 ppm	0.4942 ppm	0.4791 ppm	0.5060 ppm	0.4961 ppm	0.4873 ppm	0.4751 ppm
Recovery Percentage 1	90.541 %	98.511 %	97.145 %	101.343 %	99.035 %	97.687 %	94.915 %
Concentration RSD	0.1 %	0.3 %	2.2 %	0.2 %	0.2 %	0.3 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.2204 %	97.8680 %	104.6096 %	90.7930 %	97.9447 %	101.1832 %	0.4896 ppm
Concentration per Run 1	99.4963 %	97.7269 %	104.6808 %	88.6095 %	98.0990 %	100.8797 %	0.5040 ppm
Concentration per Run 2	103.5911 %	98.0532 %	104.5875 %	91.8235 %	98.1315 %	101.3663 %	0.4833 ppm
Concentration per Run 3	103.5738 %	97.8239 %	104.5606 %	91.9462 %	97.6038 %	101.3036 %	0.4814 ppm
Recovery Percentage 1							97.913 %
Concentration RSD	2.3 %	0.2 %	0.1 %	2.1 %	0.3 %	0.3 %	2.6 %

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/19/2024 8:47:11 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0011 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0036 ppm	0.0006 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0002 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0003 ppm	0.0066 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-5.428 %	0.000 %	11.568 %	2.310 %	0.047 %	0.244 %	0.000 %
Concentration RSD	26.2 %	490.9 %	66.3 %	52.8 %	215.1 %	120.7 %	211.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0015 ppm	0.0411 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0016 ppm	0.0503 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0016 ppm	0.0445 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm	0.0285 ppm	0.0011 ppm
Recovery Percentage 1	-0.382 %	0.685 %	4.226 %	0.199 %	0.001 %	1.642 %	0.000 %
Concentration RSD	121.1 %	41.9 %	15.5 %	403.7 %	16.6 %	27.5 %	285.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	-0.0111 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	-0.0125 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	-0.0094 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0022 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	-0.0112 ppm	-0.0001 ppm	-0.0003 ppm	-0.0005 ppm	-0.0004 ppm
Recovery Percentage 1	2.192 %	0.625 %	-0.553 %	-0.154 %	-2.859 %	-0.783 %	7.558 %
Concentration RSD	18.3 %	20.4 %	14.2 %	174.3 %	31.7 %	65.3 %	171.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0011 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0002 ppm
Recovery Percentage 1	0.151 %	-0.191 %	0.424 %	2.271 %	3.834 %	-2.354 %	4.515 %
Concentration RSD	57.0 %	191.1 %	57.5 %	49.7 %	17.3 %	28.2 %	9.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.0806 %	99.7043 %	105.9439 %	84.2658 %	101.4172 %	100.8192 %	0.0016 ppm
Concentration per Run 1	100.3317 %	99.6371 %	106.0688 %	80.9118 %	101.4705 %	100.6366 %	0.0014 ppm
Concentration per Run 2	103.3172 %	99.9209 %	105.7068 %	85.2753 %	101.3557 %	101.0253 %	0.0012 ppm
Concentration per Run 3	102.5930 %	99.5551 %	106.0560 %	86.6104 %	101.4253 %	100.7958 %	0.0022 ppm
Recovery Percentage 1							15.900 %
Concentration RSD	1.5 %	0.2 %	0.2 %	3.5 %	0.1 %	0.2 %	31.4 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-08d2 WG1936221
Analysis started at: 6/19/2024 8:54:59 PM
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	76.8297 ppm	0.0281 ppm	0.0097 ppm	0.3477 ppm	0.0020 ppm	8.7266 ppm
Concentration per Run 1	-0.0001 ppm	80.2352 ppm	0.0275 ppm	0.0098 ppm	0.3618 ppm	0.0021 ppm	8.9136 ppm
Concentration per Run 2	-0.0003 ppm	75.8411 ppm	0.0284 ppm	0.0098 ppm	0.3434 ppm	0.0020 ppm	8.6348 ppm
Concentration per Run 3	-0.0004 ppm	74.4129 ppm	0.0284 ppm	0.0095 ppm	0.3378 ppm	0.0019 ppm	8.6313 ppm
Concentration RSD	68.8 %	3.9 %	1.9 %	1.9 %	3.6 %	4.7 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0032 ppm	0.0604 ppm	0.1722 ppm	0.1649 ppm	160.2012 ppm	4.3669 ppm	22.2542 ppm
Concentration per Run 1	0.0032 ppm	0.0604 ppm	0.1730 ppm	0.1648 ppm	167.5874 ppm	4.4393 ppm	22.3133 ppm
Concentration per Run 2	0.0032 ppm	0.0603 ppm	0.1722 ppm	0.1648 ppm	157.5528 ppm	4.3326 ppm	22.2487 ppm
Concentration per Run 3	0.0033 ppm	0.0605 ppm	0.1715 ppm	0.1649 ppm	155.4635 ppm	4.3287 ppm	22.2006 ppm
Concentration RSD	0.7 %	0.2 %	0.4 %	0.0 %	4.0 %	1.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.5742 ppm	0.0229 ppm	2.7007 ppm	0.1307 ppm	0.7058 ppm	0.0030 ppm	0.0070 ppm
Concentration per Run 1	2.6904 ppm	0.0228 ppm	2.8266 ppm	0.1307 ppm	0.7056 ppm	0.0025 ppm	0.0074 ppm
Concentration per Run 2	2.5389 ppm	0.0228 ppm	2.6651 ppm	0.1309 ppm	0.7058 ppm	0.0028 ppm	0.0072 ppm
Concentration per Run 3	2.4932 ppm	0.0230 ppm	2.6104 ppm	0.1306 ppm	0.7061 ppm	0.0036 ppm	0.0065 ppm
Concentration RSD	4.0 %	0.4 %	4.2 %	0.1 %	0.0 %	20.1 %	7.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4617 ppm	0.0213 ppm	0.0400 ppm	2.5092 ppm	-0.0003 ppm	0.1952 ppm	2.6697 ppm
Concentration per Run 1	3.4751 ppm	0.0214 ppm	0.0416 ppm	2.5091 ppm	-0.0015 ppm	0.1953 ppm	2.6717 ppm
Concentration per Run 2	3.4595 ppm	0.0214 ppm	0.0394 ppm	2.5117 ppm	-0.0002 ppm	0.1956 ppm	2.6625 ppm
Concentration per Run 3	3.4506 ppm	0.0211 ppm	0.0388 ppm	2.5068 ppm	0.0007 ppm	0.1949 ppm	2.6750 ppm
Concentration RSD	0.4 %	0.7 %	3.7 %	0.1 %	328.2 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	119.4249 %	111.3731 %	117.5821 %	91.2188 %	92.7515 %	102.0035 %	0.0941 ppm
Concentration per Run 1	117.4884 %	111.0953 %	117.5088 %	87.4935 %	92.6599 %	101.7041 %	0.0975 ppm
Concentration per Run 2	120.5926 %	111.5508 %	117.4372 %	92.3433 %	92.6617 %	102.1214 %	0.0929 ppm
Concentration per Run 3	120.1938 %	111.4734 %	117.8004 %	93.8195 %	92.9328 %	102.1851 %	0.0919 ppm
Concentration RSD	1.4 %	0.2 %	0.2 %	3.6 %	0.2 %	0.3 %	3.2 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-09d2 WG1936221
Analysis started at: 6/19/2024 9:01:35 PM
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0026 ppm	231.2348 ppm	0.1130 ppm	0.0062 ppm	1.8506 ppm	0.0048 ppm	8.7943 ppm
Concentration per Run 1	-0.0025 ppm	239.6031 ppm	0.1121 ppm	0.0059 ppm	1.9002 ppm	0.0050 ppm	8.8369 ppm
Concentration per Run 2	-0.0022 ppm	228.0813 ppm	0.1118 ppm	0.0065 ppm	1.8336 ppm	0.0048 ppm	8.7690 ppm
Concentration per Run 3	-0.0030 ppm	226.0200 ppm	0.1150 ppm	0.0063 ppm	1.8180 ppm	0.0046 ppm	8.7770 ppm
Concentration RSD	15.2 %	3.2 %	1.5 %	4.8 %	2.4 %	4.0 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0022 ppm	0.1506 ppm	0.6321 ppm	0.4695 ppm	405.3901 ppm	33.7440 ppm	77.5514 ppm
Concentration per Run 1	0.0021 ppm	0.1502 ppm	0.6326 ppm	0.4676 ppm	421.4930 ppm	33.8497 ppm	77.6275 ppm
Concentration per Run 2	0.0022 ppm	0.1511 ppm	0.6322 ppm	0.4704 ppm	398.2461 ppm	33.6325 ppm	77.6939 ppm
Concentration per Run 3	0.0022 ppm	0.1505 ppm	0.6316 ppm	0.4706 ppm	396.4313 ppm	33.7498 ppm	77.3328 ppm
Concentration RSD	3.6 %	0.3 %	0.1 %	0.4 %	3.4 %	0.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.3604 ppm	0.0063 ppm	1.5267 ppm	0.4237 ppm	0.1156 ppm	0.0052 ppm	0.0109 ppm
Concentration per Run 1	4.4869 ppm	0.0062 ppm	1.5633 ppm	0.4221 ppm	0.1144 ppm	0.0042 ppm	0.0109 ppm
Concentration per Run 2	4.3192 ppm	0.0063 ppm	1.5121 ppm	0.4248 ppm	0.1162 ppm	0.0053 ppm	0.0102 ppm
Concentration per Run 3	4.2750 ppm	0.0064 ppm	1.5047 ppm	0.4242 ppm	0.1162 ppm	0.0060 ppm	0.0116 ppm
Concentration RSD	2.6 %	1.5 %	2.1 %	0.3 %	0.9 %	17.3 %	6.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.7473 ppm	0.0089 ppm	0.0863 ppm	7.9586 ppm	0.0020 ppm	0.4823 ppm	1.0085 ppm
Concentration per Run 1	1.7497 ppm	0.0088 ppm	0.0887 ppm	7.9781 ppm	0.0020 ppm	0.4814 ppm	1.0060 ppm
Concentration per Run 2	1.7429 ppm	0.0091 ppm	0.0854 ppm	7.9530 ppm	0.0008 ppm	0.4832 ppm	1.0093 ppm
Concentration per Run 3	1.7492 ppm	0.0089 ppm	0.0849 ppm	7.9447 ppm	0.0033 ppm	0.4823 ppm	1.0101 ppm
Concentration RSD	0.2 %	1.9 %	2.4 %	0.2 %	60.9 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	200.4992 %	180.1128 %	190.5868 %	98.3436 %	89.7194 %	103.9616 %	0.2894 ppm
Concentration per Run 1	199.7238 %	179.6994 %	191.0420 %	95.6089 %	90.1219 %	103.9442 %	0.2959 ppm
Concentration per Run 2	201.3438 %	180.2140 %	190.2746 %	99.4521 %	89.5229 %	103.9509 %	0.2875 ppm
Concentration per Run 3	200.4298 %	180.4250 %	190.4438 %	99.9697 %	89.5133 %	103.9897 %	0.2848 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	2.4 %	0.4 %	0.0 %	2.0 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-10d2 WG1936221
Analysis started at: 6/19/2024 9:08:23 PM
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0016 ppm	123.0483 ppm	0.0286 ppm	0.0049 ppm	0.6274 ppm	0.0030 ppm	13.6705 ppm
Concentration per Run 1	-0.0018 ppm	128.0363 ppm	0.0271 ppm	0.0049 ppm	0.6517 ppm	0.0030 ppm	13.8904 ppm
Concentration per Run 2	-0.0016 ppm	121.5064 ppm	0.0295 ppm	0.0049 ppm	0.6198 ppm	0.0030 ppm	13.5617 ppm
Concentration per Run 3	-0.0015 ppm	119.6022 ppm	0.0292 ppm	0.0050 ppm	0.6106 ppm	0.0029 ppm	13.5594 ppm
Concentration RSD	9.4 %	3.6 %	4.6 %	1.0 %	3.4 %	2.5 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0971 ppm	0.1612 ppm	0.1953 ppm	220.0272 ppm	18.9016 ppm	46.9315 ppm
Concentration per Run 1	0.0007 ppm	0.0971 ppm	0.1612 ppm	0.1949 ppm	231.5577 ppm	19.0802 ppm	47.0046 ppm
Concentration per Run 2	0.0009 ppm	0.0971 ppm	0.1618 ppm	0.1954 ppm	216.5311 ppm	18.7767 ppm	46.9378 ppm
Concentration per Run 3	0.0009 ppm	0.0971 ppm	0.1605 ppm	0.1955 ppm	211.9927 ppm	18.8480 ppm	46.8520 ppm
Concentration RSD	16.1 %	0.0 %	0.4 %	0.2 %	4.7 %	0.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.5732 ppm	0.0037 ppm	1.2474 ppm	0.1763 ppm	0.0546 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 1	5.8125 ppm	0.0037 ppm	1.2935 ppm	0.1762 ppm	0.0546 ppm	-0.0005 ppm	0.0070 ppm
Concentration per Run 2	5.5083 ppm	0.0038 ppm	1.2330 ppm	0.1757 ppm	0.0543 ppm	0.0006 ppm	0.0062 ppm
Concentration per Run 3	5.3988 ppm	0.0037 ppm	1.2158 ppm	0.1768 ppm	0.0548 ppm	0.0000 ppm	0.0085 ppm
Concentration RSD	3.8 %	1.1 %	3.3 %	0.3 %	0.4 %	1,102.5 %	16.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.1617 ppm	0.0038 ppm	0.0706 ppm	4.6044 ppm	-0.0008 ppm	0.2958 ppm	0.4606 ppm
Concentration per Run 1	7.2288 ppm	0.0038 ppm	0.0734 ppm	4.6076 ppm	-0.0006 ppm	0.2958 ppm	0.4611 ppm
Concentration per Run 2	7.1456 ppm	0.0040 ppm	0.0698 ppm	4.6029 ppm	-0.0006 ppm	0.2960 ppm	0.4609 ppm
Concentration per Run 3	7.1107 ppm	0.0038 ppm	0.0687 ppm	4.6027 ppm	-0.0011 ppm	0.2956 ppm	0.4597 ppm
Concentration RSD	0.8 %	2.9 %	3.5 %	0.1 %	34.8 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	132.3507 %	121.2644 %	128.9073 %	93.2331 %	92.2223 %	102.7815 %	0.1783 ppm
Concentration per Run 1	130.7962 %	121.2000 %	128.8319 %	89.5671 %	92.1641 %	102.6134 %	0.1852 ppm
Concentration per Run 2	133.0740 %	121.1737 %	128.9289 %	94.0778 %	92.3815 %	102.7617 %	0.1757 ppm
Concentration per Run 3	133.1819 %	121.4195 %	128.9612 %	96.0545 %	92.1214 %	102.9695 %	0.1740 ppm
Concentration RSD	1.0 %	0.1 %	0.1 %	3.6 %	0.2 %	0.2 %	3.4 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-11d2 WG1936221
Analysis started at: 6/19/2024 9:14:56 PM
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	74.3590 ppm	0.0329 ppm	0.0214 ppm	0.3138 ppm	0.0018 ppm	20.6630 ppm
Concentration per Run 1	0.0002 ppm	77.6709 ppm	0.0322 ppm	0.0215 ppm	0.3280 ppm	0.0019 ppm	20.9846 ppm
Concentration per Run 2	0.0000 ppm	73.3015 ppm	0.0329 ppm	0.0217 ppm	0.3094 ppm	0.0018 ppm	20.4552 ppm
Concentration per Run 3	0.0001 ppm	72.1047 ppm	0.0338 ppm	0.0210 ppm	0.3039 ppm	0.0019 ppm	20.5493 ppm
Concentration RSD	99.9 %	3.9 %	2.5 %	1.6 %	4.0 %	1.8 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0025 ppm	0.0510 ppm	0.1075 ppm	0.2074 ppm	132.6200 ppm	5.6736 ppm	22.0014 ppm
Concentration per Run 1	0.0024 ppm	0.0509 ppm	0.1077 ppm	0.2081 ppm	140.6303 ppm	5.7538 ppm	21.9949 ppm
Concentration per Run 2	0.0026 ppm	0.0509 ppm	0.1075 ppm	0.2069 ppm	129.2078 ppm	5.6050 ppm	21.9856 ppm
Concentration per Run 3	0.0025 ppm	0.0511 ppm	0.1074 ppm	0.2072 ppm	128.0219 ppm	5.6621 ppm	22.0237 ppm
Concentration RSD	3.7 %	0.2 %	0.1 %	0.3 %	5.2 %	1.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.9990 ppm	0.0025 ppm	2.6325 ppm	0.1258 ppm	2.2738 ppm	0.0043 ppm	0.0037 ppm
Concentration per Run 1	3.1411 ppm	0.0025 ppm	2.7546 ppm	0.1258 ppm	2.2754 ppm	0.0044 ppm	0.0032 ppm
Concentration per Run 2	2.9560 ppm	0.0025 ppm	2.5924 ppm	0.1260 ppm	2.2760 ppm	0.0040 ppm	0.0051 ppm
Concentration per Run 3	2.8999 ppm	0.0024 ppm	2.5504 ppm	0.1258 ppm	2.2700 ppm	0.0046 ppm	0.0028 ppm
Concentration RSD	4.2 %	2.0 %	4.1 %	0.1 %	0.1 %	7.4 %	32.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1790 ppm	0.0378 ppm	0.1217 ppm	2.6299 ppm	0.0004 ppm	0.2100 ppm	1.7420 ppm
Concentration per Run 1	3.1692 ppm	0.0377 ppm	0.1273 ppm	2.6328 ppm	0.0011 ppm	0.2106 ppm	1.7460 ppm
Concentration per Run 2	3.1898 ppm	0.0382 ppm	0.1200 ppm	2.6292 ppm	0.0001 ppm	0.2101 ppm	1.7425 ppm
Concentration per Run 3	3.1779 ppm	0.0375 ppm	0.1177 ppm	2.6278 ppm	0.0000 ppm	0.2094 ppm	1.7374 ppm
Concentration RSD	0.3 %	0.9 %	4.1 %	0.1 %	142.6 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	119.2166 %	111.1292 %	115.3187 %	90.9634 %	92.8755 %	101.4082 %	0.1022 ppm
Concentration per Run 1	118.1465 %	111.0727 %	115.4890 %	87.5473 %	92.9814 %	101.2963 %	0.1068 ppm
Concentration per Run 2	120.4671 %	111.2162 %	115.1392 %	92.1081 %	92.6823 %	101.4897 %	0.1014 ppm
Concentration per Run 3	119.0361 %	111.0987 %	115.3279 %	93.2347 %	92.9628 %	101.4386 %	0.0985 ppm
Concentration RSD	1.0 %	0.1 %	0.2 %	3.3 %	0.2 %	0.1 %	4.2 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-12d2 WG1936221
Analysis started at: 6/19/2024 9:21:29 PM
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0019 ppm	52.8735 ppm	0.0265 ppm	0.0061 ppm	0.3602 ppm	0.0026 ppm	7.2250 ppm
Concentration per Run 1	-0.0023 ppm	55.3308 ppm	0.0259 ppm	0.0062 ppm	0.3759 ppm	0.0027 ppm	7.3250 ppm
Concentration per Run 2	-0.0019 ppm	52.0607 ppm	0.0269 ppm	0.0064 ppm	0.3553 ppm	0.0026 ppm	7.1667 ppm
Concentration per Run 3	-0.0015 ppm	51.2291 ppm	0.0269 ppm	0.0057 ppm	0.3493 ppm	0.0026 ppm	7.1832 ppm
Concentration RSD	21.1 %	4.1 %	2.2 %	6.1 %	3.9 %	2.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0656 ppm	0.1339 ppm	0.1923 ppm	168.3824 ppm	7.3701 ppm	22.6398 ppm
Concentration per Run 1	0.0008 ppm	0.0657 ppm	0.1343 ppm	0.1924 ppm	177.3921 ppm	7.4668 ppm	22.6811 ppm
Concentration per Run 2	0.0009 ppm	0.0656 ppm	0.1338 ppm	0.1921 ppm	165.2394 ppm	7.2901 ppm	22.6760 ppm
Concentration per Run 3	0.0009 ppm	0.0656 ppm	0.1335 ppm	0.1923 ppm	162.5157 ppm	7.3534 ppm	22.5621 ppm
Concentration RSD	4.1 %	0.1 %	0.3 %	0.1 %	4.7 %	1.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.1455 ppm	0.0047 ppm	2.0081 ppm	0.1287 ppm	0.0639 ppm	-0.0003 ppm	0.0038 ppm
Concentration per Run 1	2.2457 ppm	0.0047 ppm	2.0887 ppm	0.1291 ppm	0.0633 ppm	-0.0013 ppm	0.0033 ppm
Concentration per Run 2	2.1133 ppm	0.0047 ppm	1.9816 ppm	0.1286 ppm	0.0641 ppm	-0.0002 ppm	0.0046 ppm
Concentration per Run 3	2.0776 ppm	0.0046 ppm	1.9539 ppm	0.1282 ppm	0.0644 ppm	0.0006 ppm	0.0035 ppm
Concentration RSD	4.1 %	0.8 %	3.5 %	0.3 %	0.9 %	297.1 %	18.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9131 ppm	0.0050 ppm	0.0450 ppm	2.8263 ppm	-0.0006 ppm	0.1917 ppm	0.2434 ppm
Concentration per Run 1	1.9400 ppm	0.0047 ppm	0.0470 ppm	2.8239 ppm	-0.0004 ppm	0.1917 ppm	0.2435 ppm
Concentration per Run 2	1.8956 ppm	0.0052 ppm	0.0444 ppm	2.8283 ppm	-0.0007 ppm	0.1916 ppm	0.2429 ppm
Concentration per Run 3	1.9038 ppm	0.0051 ppm	0.0436 ppm	2.8268 ppm	-0.0006 ppm	0.1917 ppm	0.2437 ppm
Concentration RSD	1.2 %	5.5 %	4.0 %	0.1 %	29.4 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	132.7597 %	124.5393 %	131.4150 %	92.6719 %	96.1100 %	104.1386 %	0.1117 ppm
Concentration per Run 1	131.3684 %	124.3905 %	131.2730 %	88.7618 %	95.9987 %	103.9477 %	0.1157 ppm
Concentration per Run 2	134.3232 %	124.4919 %	131.3661 %	94.2535 %	96.0420 %	104.1458 %	0.1101 ppm
Concentration per Run 3	132.5875 %	124.7355 %	131.6058 %	95.0004 %	96.2894 %	104.3224 %	0.1092 ppm
Concentration RSD	1.1 %	0.1 %	0.1 %	3.7 %	0.2 %	0.2 %	3.2 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-13d2 WG1936221
Analysis started at: 6/19/2024 9:28:04 PM
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0023 ppm	194.2541 ppm	0.0366 ppm	0.0082 ppm	1.5920 ppm	0.0047 ppm	11.6228 ppm
Concentration per Run 1	-0.0022 ppm	201.8787 ppm	0.0373 ppm	0.0078 ppm	1.6321 ppm	0.0049 ppm	11.6795 ppm
Concentration per Run 2	-0.0025 ppm	190.1309 ppm	0.0363 ppm	0.0082 ppm	1.5789 ppm	0.0046 ppm	11.5610 ppm
Concentration per Run 3	-0.0023 ppm	190.7527 ppm	0.0362 ppm	0.0085 ppm	1.5648 ppm	0.0047 ppm	11.6279 ppm
Concentration RSD	6.9 %	3.4 %	1.6 %	4.5 %	2.2 %	3.4 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0019 ppm	0.1416 ppm	0.3903 ppm	0.2927 ppm	**361.6803 ppm**	36.9758 ppm	71.2687 ppm
Concentration per Run 1	0.0016 ppm	0.1417 ppm	0.3919 ppm	0.2920 ppm	376.9092 ppm	37.0610 ppm	71.6305 ppm
Concentration per Run 2	0.0019 ppm	0.1415 ppm	0.3906 ppm	0.2931 ppm	356.2698 ppm	36.9046 ppm	71.2833 ppm
Concentration per Run 3	0.0021 ppm	0.1417 ppm	0.3882 ppm	0.2928 ppm	351.8618 ppm	36.9619 ppm	70.8924 ppm
Concentration RSD	12.8 %	0.1 %	0.5 %	0.2 %	3.7 %	0.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.3388 ppm	0.0027 ppm	3.8572 ppm	0.3005 ppm	0.0845 ppm	-0.0008 ppm	0.0094 ppm
Concentration per Run 1	3.4296 ppm	0.0029 ppm	3.9527 ppm	0.3004 ppm	0.0846 ppm	-0.0018 ppm	0.0095 ppm
Concentration per Run 2	3.3013 ppm	0.0025 ppm	3.8228 ppm	0.2999 ppm	0.0838 ppm	-0.0005 ppm	0.0130 ppm
Concentration per Run 3	3.2854 ppm	0.0028 ppm	3.7962 ppm	0.3011 ppm	0.0851 ppm	0.0000 ppm	0.0057 ppm
Concentration RSD	2.4 %	6.8 %	2.2 %	0.2 %	0.7 %	119.6 %	38.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7906 ppm	0.0077 ppm	0.1012 ppm	8.5332 ppm	0.0023 ppm	0.5036 ppm	0.7753 ppm
Concentration per Run 1	2.8124 ppm	0.0075 ppm	0.1035 ppm	8.5536 ppm	0.0037 ppm	0.5051 ppm	0.7762 ppm
Concentration per Run 2	2.7895 ppm	0.0076 ppm	0.1004 ppm	8.5147 ppm	0.0022 ppm	0.5036 ppm	0.7726 ppm
Concentration per Run 3	2.7699 ppm	0.0079 ppm	0.0997 ppm	8.5314 ppm	0.0010 ppm	0.5023 ppm	0.7771 ppm
Concentration RSD	0.8 %	2.6 %	2.0 %	0.2 %	58.3 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	**151.5373 %**	136.1531 %	144.2175 %	97.4184 %	90.4199 %	103.7792 %	0.2583 ppm
Concentration per Run 1	**151.1015 %**	135.9509 %	144.3148 %	94.9208 %	90.2477 %	103.6728 %	0.2639 ppm
Concentration per Run 2	**152.5111 %**	136.2525 %	144.2525 %	98.7280 %	90.6811 %	103.7974 %	0.2569 ppm
Concentration per Run 3	**150.9992 %**	136.2558 %	144.0852 %	98.6064 %	90.3310 %	103.8675 %	0.2543 ppm
Concentration RSD	**0.6 %**	0.1 %	0.1 %	2.2 %	0.3 %	0.1 %	1.9 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-14d2 WG1936221
Analysis started at: 6/19/2024 9:34:52 PM
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	60.9539 ppm	0.0196 ppm	0.0033 ppm	0.1585 ppm	0.0012 ppm	7.7964 ppm
Concentration per Run 1	-0.0010 ppm	64.7747 ppm	0.0197 ppm	0.0036 ppm	0.1683 ppm	0.0013 ppm	8.1716 ppm
Concentration per Run 2	-0.0006 ppm	59.7938 ppm	0.0190 ppm	0.0032 ppm	0.1552 ppm	0.0011 ppm	7.6275 ppm
Concentration per Run 3	-0.0009 ppm	58.2934 ppm	0.0200 ppm	0.0031 ppm	0.1520 ppm	0.0012 ppm	7.5902 ppm
Concentration RSD	25.5 %	5.6 %	2.5 %	7.8 %	5.4 %	6.2 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0545 ppm	0.0768 ppm	0.1152 ppm	117.1280 ppm	4.6723 ppm	19.7479 ppm
Concentration per Run 1	0.0007 ppm	0.0546 ppm	0.0770 ppm	0.1152 ppm	124.4386 ppm	4.8760 ppm	19.8031 ppm
Concentration per Run 2	0.0007 ppm	0.0544 ppm	0.0764 ppm	0.1147 ppm	114.9947 ppm	4.5853 ppm	19.7210 ppm
Concentration per Run 3	0.0007 ppm	0.0544 ppm	0.0770 ppm	0.1156 ppm	111.9507 ppm	4.5556 ppm	19.7194 ppm
Concentration RSD	3.6 %	0.2 %	0.4 %	0.4 %	5.6 %	3.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.0102 ppm	0.0015 ppm	0.9716 ppm	0.1237 ppm	0.2967 ppm	0.0000 ppm	0.0047 ppm
Concentration per Run 1	3.1994 ppm	0.0014 ppm	1.0373 ppm	0.1240 ppm	0.2966 ppm	0.0006 ppm	0.0051 ppm
Concentration per Run 2	2.9553 ppm	0.0016 ppm	0.9495 ppm	0.1237 ppm	0.2968 ppm	-0.0012 ppm	0.0050 ppm
Concentration per Run 3	2.8758 ppm	0.0015 ppm	0.9282 ppm	0.1235 ppm	0.2968 ppm	0.0005 ppm	0.0041 ppm
Concentration RSD	5.6 %	6.8 %	6.0 %	0.2 %	0.0 %	2,967.7 %	11.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.9268 ppm	0.0055 ppm	0.0301 ppm	2.5828 ppm	0.0003 ppm	0.1284 ppm	0.3729 ppm
Concentration per Run 1	2.9689 ppm	0.0057 ppm	0.0319 ppm	2.5834 ppm	0.0009 ppm	0.1288 ppm	0.3736 ppm
Concentration per Run 2	2.9031 ppm	0.0055 ppm	0.0297 ppm	2.5844 ppm	0.0002 ppm	0.1281 ppm	0.3726 ppm
Concentration per Run 3	2.9084 ppm	0.0054 ppm	0.0288 ppm	2.5808 ppm	-0.0001 ppm	0.1282 ppm	0.3724 ppm
Concentration RSD	1.3 %	2.9 %	5.2 %	0.1 %	141.2 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	117.9152 %	111.7210 %	117.7551 %	88.1248 %	94.8196 %	101.8101 %	0.0737 ppm
Concentration per Run 1	113.3538 %	111.7988 %	117.7996 %	83.4237 %	94.7795 %	101.7569 %	0.0782 ppm
Concentration per Run 2	119.8393 %	111.4579 %	117.7063 %	89.2043 %	94.8182 %	101.7655 %	0.0721 ppm
Concentration per Run 3	120.5526 %	111.9063 %	117.7593 %	91.7464 %	94.8610 %	101.9078 %	0.0709 ppm
Concentration RSD	3.4 %	0.2 %	0.0 %	4.8 %	0.0 %	0.1 %	5.3 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-15d2 WG1936221
Analysis started at: 6/19/2024 9:41:19 PM
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0013 ppm	54.0622 ppm	0.0269 ppm	0.0023 ppm	0.2561 ppm	0.0014 ppm	5.6462 ppm
Concentration per Run 1	-0.0014 ppm	56.3634 ppm	0.0271 ppm	0.0022 ppm	0.2665 ppm	0.0014 ppm	5.7403 ppm
Concentration per Run 2	-0.0014 ppm	53.3373 ppm	0.0254 ppm	0.0021 ppm	0.2528 ppm	0.0014 ppm	5.6107 ppm
Concentration per Run 3	-0.0012 ppm	52.4858 ppm	0.0282 ppm	0.0025 ppm	0.2489 ppm	0.0013 ppm	5.5875 ppm
Concentration RSD	8.5 %	3.8 %	5.1 %	9.7 %	3.6 %	4.5 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.1017 ppm	0.1141 ppm	0.1564 ppm	195.4408 ppm	8.5438 ppm	24.5066 ppm
Concentration per Run 1	0.0009 ppm	0.1016 ppm	0.1135 ppm	0.1565 ppm	207.3374 ppm	8.6562 ppm	24.4065 ppm
Concentration per Run 2	0.0011 ppm	0.1016 ppm	0.1143 ppm	0.1563 ppm	192.1532 ppm	8.4723 ppm	24.5040 ppm
Concentration per Run 3	0.0011 ppm	0.1019 ppm	0.1146 ppm	0.1563 ppm	186.8319 ppm	8.5029 ppm	24.6094 ppm
Concentration RSD	10.1 %	0.2 %	0.5 %	0.1 %	5.4 %	1.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.1774 ppm	0.0051 ppm	0.9323 ppm	0.1195 ppm	0.0517 ppm	0.0006 ppm	0.0053 ppm
Concentration per Run 1	3.3121 ppm	0.0050 ppm	0.9663 ppm	0.1192 ppm	0.0521 ppm	0.0004 ppm	0.0039 ppm
Concentration per Run 2	3.1376 ppm	0.0052 ppm	0.9198 ppm	0.1195 ppm	0.0519 ppm	0.0006 ppm	0.0054 ppm
Concentration per Run 3	3.0826 ppm	0.0051 ppm	0.9109 ppm	0.1197 ppm	0.0511 ppm	0.0009 ppm	0.0066 ppm
Concentration RSD	3.8 %	1.3 %	3.2 %	0.2 %	1.0 %	44.0 %	25.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.4790 ppm	0.0040 ppm	0.0258 ppm	2.7910 ppm	-0.0010 ppm	0.2080 ppm	0.2614 ppm
Concentration per Run 1	2.5018 ppm	0.0035 ppm	0.0270 ppm	2.7864 ppm	-0.0011 ppm	0.2081 ppm	0.2613 ppm
Concentration per Run 2	2.4738 ppm	0.0041 ppm	0.0254 ppm	2.7908 ppm	-0.0012 ppm	0.2075 ppm	0.2620 ppm
Concentration per Run 3	2.4614 ppm	0.0043 ppm	0.0251 ppm	2.7958 ppm	-0.0008 ppm	0.2084 ppm	0.2610 ppm
Concentration RSD	0.8 %	10.6 %	3.9 %	0.2 %	22.4 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	128.3484 %	119.6292 %	124.9396 %	91.7292 %	94.9593 %	102.8962 %	0.1023 ppm
Concentration per Run 1	126.8973 %	119.7653 %	124.8334 %	88.2539 %	94.9896 %	103.1172 %	0.1053 ppm
Concentration per Run 2	128.9555 %	119.8455 %	125.0051 %	92.5590 %	95.0185 %	102.9581 %	0.1015 ppm
Concentration per Run 3	129.1925 %	119.2767 %	124.9803 %	94.3746 %	94.8700 %	102.6134 %	0.1002 ppm
Concentration RSD	1.0 %	0.3 %	0.1 %	3.4 %	0.1 %	0.3 %	2.6 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-16d2 WG1936221
Analysis started at: 6/19/2024 9:47:56 PM
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0016 ppm	102.0830 ppm	0.0285 ppm	0.0029 ppm	0.4394 ppm	0.0024 ppm	13.1859 ppm
Concentration per Run 1	-0.0018 ppm	106.5179 ppm	0.0297 ppm	0.0029 ppm	0.4585 ppm	0.0024 ppm	13.3824 ppm
Concentration per Run 2	-0.0015 ppm	100.5882 ppm	0.0284 ppm	0.0028 ppm	0.4325 ppm	0.0024 ppm	13.1093 ppm
Concentration per Run 3	-0.0016 ppm	99.1429 ppm	0.0275 ppm	0.0029 ppm	0.4271 ppm	0.0024 ppm	13.0659 ppm
Concentration RSD	10.5 %	3.8 %	3.9 %	2.2 %	3.8 %	1.5 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0701 ppm	0.1357 ppm	0.1777 ppm	197.2023 ppm	15.9683 ppm	38.6737 ppm
Concentration per Run 1	0.0007 ppm	0.0700 ppm	0.1355 ppm	0.1774 ppm	205.7358 ppm	16.1621 ppm	38.7023 ppm
Concentration per Run 2	0.0008 ppm	0.0699 ppm	0.1361 ppm	0.1778 ppm	194.9507 ppm	15.8882 ppm	38.6813 ppm
Concentration per Run 3	0.0008 ppm	0.0703 ppm	0.1356 ppm	0.1779 ppm	190.9204 ppm	15.8547 ppm	38.6374 ppm
Concentration RSD	1.9 %	0.3 %	0.2 %	0.1 %	3.9 %	1.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.9912 ppm	0.0027 ppm	1.0275 ppm	0.1591 ppm	0.0479 ppm	-0.0009 ppm	0.0059 ppm
Concentration per Run 1	3.1220 ppm	0.0025 ppm	1.0667 ppm	0.1590 ppm	0.0479 ppm	-0.0001 ppm	0.0045 ppm
Concentration per Run 2	2.9472 ppm	0.0026 ppm	1.0101 ppm	0.1593 ppm	0.0482 ppm	-0.0008 ppm	0.0063 ppm
Concentration per Run 3	2.9044 ppm	0.0029 ppm	1.0059 ppm	0.1589 ppm	0.0475 ppm	-0.0017 ppm	0.0069 ppm
Concentration RSD	3.9 %	8.5 %	3.3 %	0.1 %	0.7 %	92.6 %	21.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.0113 ppm	0.0037 ppm	0.0652 ppm	3.7267 ppm	-0.0004 ppm	0.2451 ppm	0.4150 ppm
Concentration per Run 1	6.1078 ppm	0.0035 ppm	0.0681 ppm	3.7291 ppm	-0.0006 ppm	0.2451 ppm	0.4142 ppm
Concentration per Run 2	5.9695 ppm	0.0042 ppm	0.0643 ppm	3.7279 ppm	0.0001 ppm	0.2452 ppm	0.4152 ppm
Concentration per Run 3	5.9565 ppm	0.0033 ppm	0.0633 ppm	3.7232 ppm	-0.0008 ppm	0.2451 ppm	0.4157 ppm
Concentration RSD	1.4 %	12.8 %	3.9 %	0.1 %	119.7 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	130.2128 %	119.6649 %	126.4417 %	91.5660 %	93.0897 %	102.0698 %	0.1650 ppm
Concentration per Run 1	128.8467 %	120.0224 %	126.3193 %	88.1738 %	93.1415 %	102.1848 %	0.1718 ppm
Concentration per Run 2	130.8368 %	119.5342 %	126.5666 %	92.6539 %	93.1273 %	102.0583 %	0.1619 ppm
Concentration per Run 3	130.9550 %	119.4382 %	126.4393 %	93.8703 %	93.0004 %	101.9663 %	0.1614 ppm
Concentration RSD	0.9 %	0.3 %	0.1 %	3.3 %	0.1 %	0.1 %	3.5 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-17d2 WG1936221
Analysis started at: 6/19/2024 9:54:31 PM
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	93.1692 ppm	0.0135 ppm	0.0089 ppm	0.1642 ppm	0.0022 ppm	6.6436 ppm
Concentration per Run 1	-0.0004 ppm	99.6779 ppm	0.0138 ppm	0.0091 ppm	0.1750 ppm	0.0023 ppm	7.0091 ppm
Concentration per Run 2	-0.0007 ppm	91.1667 ppm	0.0139 ppm	0.0090 ppm	0.1610 ppm	0.0021 ppm	6.4640 ppm
Concentration per Run 3	-0.0005 ppm	88.6629 ppm	0.0127 ppm	0.0087 ppm	0.1565 ppm	0.0021 ppm	6.4578 ppm
Concentration RSD	25.4 %	6.2 %	5.1 %	2.2 %	5.8 %	5.2 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	0.0262 ppm	0.0672 ppm	0.0755 ppm	103.7575 ppm	2.8310 ppm	11.5879 ppm
Concentration per Run 1	0.0005 ppm	0.0262 ppm	0.0671 ppm	0.0754 ppm	110.9210 ppm	2.9647 ppm	11.6001 ppm
Concentration per Run 2	0.0005 ppm	0.0261 ppm	0.0673 ppm	0.0758 ppm	101.4932 ppm	2.7402 ppm	11.5547 ppm
Concentration per Run 3	0.0006 ppm	0.0263 ppm	0.0672 ppm	0.0753 ppm	98.8582 ppm	2.7881 ppm	11.6090 ppm
Concentration RSD	9.9 %	0.3 %	0.1 %	0.3 %	6.1 %	4.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.9800 ppm	0.0022 ppm	0.6259 ppm	0.0650 ppm	0.0768 ppm	0.0007 ppm	0.0047 ppm
Concentration per Run 1	1.0477 ppm	0.0024 ppm	0.6697 ppm	0.0650 ppm	0.0764 ppm	0.0011 ppm	0.0064 ppm
Concentration per Run 2	0.9582 ppm	0.0021 ppm	0.6139 ppm	0.0651 ppm	0.0770 ppm	0.0008 ppm	0.0047 ppm
Concentration per Run 3	0.9342 ppm	0.0022 ppm	0.5942 ppm	0.0650 ppm	0.0769 ppm	0.0003 ppm	0.0030 ppm
Concentration RSD	6.1 %	5.8 %	6.3 %	0.1 %	0.4 %	55.5 %	36.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.2768 ppm	0.0029 ppm	0.0239 ppm	2.7393 ppm	0.0013 ppm	0.1326 ppm	0.1915 ppm
Concentration per Run 1	3.3131 ppm	0.0025 ppm	0.0254 ppm	2.7429 ppm	0.0009 ppm	0.1328 ppm	0.1921 ppm
Concentration per Run 2	3.2664 ppm	0.0030 ppm	0.0233 ppm	2.7350 ppm	0.0012 ppm	0.1324 ppm	0.1917 ppm
Concentration per Run 3	3.2509 ppm	0.0033 ppm	0.0229 ppm	2.7401 ppm	0.0018 ppm	0.1326 ppm	0.1908 ppm
Concentration RSD	1.0 %	13.5 %	5.5 %	0.1 %	32.2 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	111.1604 %	105.1744 %	111.4645 %	87.7657 %	95.3190 %	102.2322 %	0.0597 ppm
Concentration per Run 1	105.7903 %	105.2663 %	111.3530 %	82.2486 %	95.3129 %	102.2543 %	0.0631 ppm
Concentration per Run 2	113.8454 %	105.1266 %	111.3830 %	89.3462 %	95.2405 %	102.2135 %	0.0589 ppm
Concentration per Run 3	113.8454 %	105.1303 %	111.6574 %	91.7023 %	95.4036 %	102.2289 %	0.0571 ppm
Concentration RSD	4.2 %	0.1 %	0.2 %	5.6 %	0.1 %	0.0 %	5.1 %

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/19/2024 10:01:00 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5155 ppm	0.4777 ppm	0.4501 ppm	0.4543 ppm	0.4981 ppm	0.5213 ppm	0.4979 ppm
Concentration per Run 1	0.5165 ppm	0.5102 ppm	0.4514 ppm	0.4536 ppm	0.5336 ppm	0.5585 ppm	0.5261 ppm
Concentration per Run 2	0.5153 ppm	0.4666 ppm	0.4494 ppm	0.4549 ppm	0.4880 ppm	0.5108 ppm	0.4840 ppm
Concentration per Run 3	0.5148 ppm	0.4562 ppm	0.4495 ppm	0.4545 ppm	0.4726 ppm	0.4947 ppm	0.4836 ppm
Recovery Percentage 1	103.106 %	95.535 %	90.021 %	90.863 %	99.611 %	104.263 %	99.587 %
Concentration RSD	0.2 %	6.0 %	0.3 %	0.1 %	6.4 %	6.4 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4843 ppm	0.4765 ppm	0.4644 ppm	0.4575 ppm	0.5478 ppm	5.2910 ppm	0.4866 ppm
Concentration per Run 1	0.4836 ppm	0.4757 ppm	0.4651 ppm	0.4582 ppm	0.5847 ppm	5.5617 ppm	0.4864 ppm
Concentration per Run 2	0.4847 ppm	0.4771 ppm	0.4636 ppm	0.4578 ppm	0.5366 ppm	5.1695 ppm	0.4889 ppm
Concentration per Run 3	0.4847 ppm	0.4767 ppm	0.4645 ppm	0.4564 ppm	0.5222 ppm	5.1419 ppm	0.4844 ppm
Recovery Percentage 1	96.865 %	95.298 %	92.881 %	91.496 %	109.563 %	105.821 %	97.315 %
Concentration RSD	0.1 %	0.2 %	0.2 %	0.2 %	6.0 %	4.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5524 ppm	0.4752 ppm	10.7280 ppm	0.4890 ppm	0.4970 ppm	0.4757 ppm	0.4747 ppm
Concentration per Run 1	0.5917 ppm	0.4738 ppm	11.4760 ppm	0.4884 ppm	0.4963 ppm	0.4739 ppm	0.4744 ppm
Concentration per Run 2	0.5412 ppm	0.4756 ppm	10.5139 ppm	0.4891 ppm	0.4980 ppm	0.4770 ppm	0.4753 ppm
Concentration per Run 3	0.5244 ppm	0.4763 ppm	10.1941 ppm	0.4897 ppm	0.4969 ppm	0.4763 ppm	0.4744 ppm
Recovery Percentage 1	110.489 %	95.049 %	107.280 %	97.808 %	99.408 %	95.145 %	94.938 %
Concentration RSD	6.3 %	0.3 %	6.2 %	0.1 %	0.2 %	0.3 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7109 ppm	0.4872 ppm	0.5215 ppm	0.5048 ppm	0.4893 ppm	0.4938 ppm	0.4799 ppm
Concentration per Run 1	4.7137 ppm	0.4870 ppm	0.5580 ppm	0.5052 ppm	0.4867 ppm	0.4942 ppm	0.4798 ppm
Concentration per Run 2	4.7136 ppm	0.4878 ppm	0.5109 ppm	0.5047 ppm	0.4903 ppm	0.4932 ppm	0.4799 ppm
Concentration per Run 3	4.7053 ppm	0.4869 ppm	0.4954 ppm	0.5046 ppm	0.4908 ppm	0.4941 ppm	0.4799 ppm
Recovery Percentage 1	89.731 %	97.447 %	104.293 %	100.961 %	97.859 %	98.765 %	95.970 %
Concentration RSD	0.1 %	0.1 %	6.3 %	0.1 %	0.5 %	0.1 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.1677 %	100.1787 %	106.8972 %	84.9782 %	100.1579 %	102.0887 %	0.5211 ppm
Concentration per Run 1	99.0720 %	100.3588 %	106.9880 %	79.7352 %	100.3424 %	102.1052 %	0.5578 ppm
Concentration per Run 2	106.5614 %	100.2397 %	106.7373 %	86.2549 %	99.9947 %	102.1395 %	0.5100 ppm
Concentration per Run 3	106.8697 %	99.9376 %	106.9662 %	88.9445 %	100.1367 %	102.0216 %	0.4955 ppm
Recovery Percentage 1							104.224 %
Concentration RSD	4.2 %	0.2 %	0.1 %	5.6 %	0.2 %	0.1 %	6.3 %

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/19/2024 10:07:18 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	-0.0001 ppm	-0.0020 ppm	0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	0.0016 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	0.0002 ppm	0.0029 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	0.228 %	0.000 %	18.185 %	1.092 %	0.670 %	0.255 %	0.000 %
Concentration RSD	1,060.7 %	1,756.5 %	69.1 %	22.4 %	63.3 %	224.2 %	75.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0017 ppm	0.0362 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0023 ppm	0.0317 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0353 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0022 ppm	0.0415 ppm	0.0006 ppm
Recovery Percentage 1	0.672 %	0.313 %	4.282 %	-0.512 %	0.001 %	1.446 %	0.000 %
Concentration RSD	35.9 %	90.7 %	18.5 %	261.6 %	54.6 %	13.7 %	444.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	-0.0203 ppm	-0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0010 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	-0.0218 ppm	-0.0002 ppm	-0.0005 ppm	-0.0008 ppm	0.0019 ppm
Concentration per Run 2	0.0004 ppm	0.0003 ppm	-0.0194 ppm	-0.0001 ppm	-0.0003 ppm	-0.0012 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0197 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	1.898 %	0.590 %	-1.014 %	-0.478 %	-2.296 %	-1.407 %	10.415 %
Concentration RSD	115.4 %	30.3 %	6.4 %	56.9 %	125.0 %	84.1 %	90.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0022 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	0.0017 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.382 %	0.211 %	-0.386 %	2.202 %	1.621 %	-1.800 %	4.058 %
Concentration RSD	13.6 %	135.3 %	128.3 %	55.5 %	116.3 %	116.7 %	14.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.5792 %	101.7348 %	108.3833 %	78.1881 %	102.8723 %	101.8639 %	0.0007 ppm
Concentration per Run 1	101.2258 %	101.5521 %	108.3094 %	72.6240 %	102.4863 %	101.5222 %	0.0007 ppm
Concentration per Run 2	105.9220 %	101.7305 %	108.3839 %	79.1603 %	103.0066 %	101.8853 %	0.0004 ppm
Concentration per Run 3	106.5899 %	101.9217 %	108.4566 %	82.7801 %	103.1241 %	102.1842 %	0.0011 ppm
Recovery Percentage 1							7.377 %
Concentration RSD	2.8 %	0.2 %	0.1 %	6.6 %	0.3 %	0.3 %	51.5 %

LabBook: WG1936225_06192024T6B.imexp

Sample: LDR Fe 500
Analysis started at: 6/19/2024 10:56:06 PM
Rack: 2
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0010 ppm	0.0090 ppm	-0.0031 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 1	0.0010 ppm	0.0104 ppm	-0.0037 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 2	0.0009 ppm	0.0079 ppm	-0.0035 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 3	0.0011 ppm	0.0085 ppm	-0.0023 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0057 ppm
Concentration RSD	8.1 %	14.7 %	24.1 %	14.9 %	19.6 %	54.8 %	47.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0029 ppm	-0.0010 ppm	-0.0037 ppm	-0.0048 ppm	**439.2720 ppm**	0.0121 ppm	0.0130 ppm
Concentration per Run 1	0.0025 ppm	-0.0009 ppm	-0.0038 ppm	-0.0043 ppm	440.3098 ppm	0.0090 ppm	0.0110 ppm
Concentration per Run 2	0.0032 ppm	-0.0010 ppm	-0.0036 ppm	-0.0049 ppm	436.1886 ppm	0.0012 ppm	0.0138 ppm
Concentration per Run 3	0.0031 ppm	-0.0010 ppm	-0.0036 ppm	-0.0050 ppm	441.3176 ppm	0.0260 ppm	0.0143 ppm
Concentration RSD	12.8 %	3.0 %	3.1 %	7.8 %	0.6 %	104.9 %	13.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	-0.0032 ppm	-0.0108 ppm	-0.0040 ppm	0.0029 ppm	-0.0004 ppm	0.0130 ppm
Concentration per Run 1	0.0008 ppm	-0.0031 ppm	-0.0118 ppm	-0.0040 ppm	0.0021 ppm	-0.0011 ppm	0.0153 ppm
Concentration per Run 2	0.0006 ppm	-0.0032 ppm	-0.0099 ppm	-0.0038 ppm	0.0030 ppm	-0.0001 ppm	0.0105 ppm
Concentration per Run 3	0.0006 ppm	-0.0032 ppm	-0.0106 ppm	-0.0043 ppm	0.0035 ppm	-0.0001 ppm	0.0132 ppm
Concentration RSD	18.1 %	1.6 %	9.0 %	5.4 %	24.4 %	143.4 %	18.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0012 ppm	0.0026 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm	-0.0024 ppm	0.0012 ppm
Concentration per Run 1	0.0006 ppm	0.0026 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0022 ppm	0.0011 ppm
Concentration per Run 2	0.0024 ppm	0.0025 ppm	0.0003 ppm	0.0003 ppm	0.0008 ppm	-0.0025 ppm	0.0012 ppm
Concentration per Run 3	0.0007 ppm	0.0027 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0027 ppm	0.0012 ppm
Concentration RSD	82.3 %	5.1 %	7.3 %	65.0 %	218.6 %	10.7 %	3.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	106.2725 %	98.0314 %	101.2413 %	93.5272 %	90.7717 %	99.4056 %	0.0008 ppm
Concentration per Run 1	104.6396 %	98.0277 %	101.1963 %	95.6073 %	90.9750 %	99.3423 %	0.0003 ppm
Concentration per Run 2	106.8262 %	97.9308 %	101.1485 %	93.1236 %	90.6347 %	99.4051 %	0.0008 ppm
Concentration per Run 3	107.3517 %	98.1356 %	101.3792 %	91.8507 %	90.7054 %	99.4693 %	0.0014 ppm
Concentration RSD	1.4 %	0.1 %	0.1 %	2.0 %	0.2 %	0.1 %	63.4 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-18d2 WG1936221
Analysis started at: 6/19/2024 11:02:48 PM
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	42.8839 ppm	0.0099 ppm	0.0033 ppm	0.2837 ppm	0.0010 ppm	4.5497 ppm
Concentration per Run 1	-0.0006 ppm	45.9998 ppm	0.0104 ppm	0.0034 ppm	0.3039 ppm	0.0010 ppm	4.7718 ppm
Concentration per Run 2	-0.0005 ppm	42.0473 ppm	0.0098 ppm	0.0032 ppm	0.2783 ppm	0.0010 ppm	4.4570 ppm
Concentration per Run 3	-0.0008 ppm	40.6046 ppm	0.0096 ppm	0.0033 ppm	0.2689 ppm	0.0009 ppm	4.4203 ppm
Concentration RSD	23.8 %	6.5 %	3.9 %	3.2 %	6.4 %	3.4 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0023 ppm	0.0273 ppm	0.0935 ppm	0.0745 ppm	80.3330 ppm	4.2551 ppm	16.4351 ppm
Concentration per Run 1	0.0023 ppm	0.0273 ppm	0.0938 ppm	0.0745 ppm	86.1052 ppm	4.5040 ppm	16.4336 ppm
Concentration per Run 2	0.0023 ppm	0.0272 ppm	0.0935 ppm	0.0746 ppm	78.8206 ppm	4.1231 ppm	16.4140 ppm
Concentration per Run 3	0.0023 ppm	0.0273 ppm	0.0933 ppm	0.0745 ppm	76.0732 ppm	4.1382 ppm	16.4578 ppm
Concentration RSD	0.8 %	0.2 %	0.2 %	0.1 %	6.5 %	5.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7886 ppm	0.0002 ppm	0.8175 ppm	0.0870 ppm	0.1476 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 1	0.8459 ppm	0.0003 ppm	0.8680 ppm	0.0868 ppm	0.1475 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 2	0.7755 ppm	0.0001 ppm	0.8072 ppm	0.0870 ppm	0.1474 ppm	0.0003 ppm	0.0027 ppm
Concentration per Run 3	0.7445 ppm	0.0002 ppm	0.7773 ppm	0.0871 ppm	0.1479 ppm	-0.0002 ppm	0.0018 ppm
Concentration RSD	6.6 %	47.7 %	5.7 %	0.2 %	0.2 %	3,778.1 %	42.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.4097 ppm	0.0019 ppm	0.0213 ppm	2.0108 ppm	0.0015 ppm	0.1201 ppm	3.3192 ppm
Concentration per Run 1	2.4073 ppm	0.0019 ppm	0.0229 ppm	2.0129 ppm	0.0015 ppm	0.1203 ppm	3.3199 ppm
Concentration per Run 2	2.4237 ppm	0.0018 ppm	0.0208 ppm	2.0082 ppm	0.0019 ppm	0.1200 ppm	3.3233 ppm
Concentration per Run 3	2.3983 ppm	0.0020 ppm	0.0203 ppm	2.0113 ppm	0.0012 ppm	0.1200 ppm	3.3145 ppm
Concentration RSD	0.5 %	7.5 %	6.6 %	0.1 %	21.7 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	115.1148 %	108.5611 %	114.0464 %	84.1206 %	98.6511 %	101.8473 %	0.0772 ppm
Concentration per Run 1	110.1868 %	108.5717 %	114.1644 %	78.9298 %	98.7360 %	101.7041 %	0.0826 ppm
Concentration per Run 2	117.5515 %	108.5787 %	114.0215 %	85.4209 %	98.5384 %	101.9367 %	0.0751 ppm
Concentration per Run 3	117.6061 %	108.5328 %	113.9532 %	88.0110 %	98.6787 %	101.9013 %	0.0740 ppm
Concentration RSD	3.7 %	0.0 %	0.1 %	5.6 %	0.1 %	0.1 %	6.0 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-19d2 WG1936221
Analysis started at: 6/19/2024 11:09:16 PM
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0019 ppm	73.9346 ppm	0.0103 ppm	0.0038 ppm	0.2827 ppm	0.0016 ppm	14.2441 ppm
Concentration per Run 1	-0.0016 ppm	78.7238 ppm	0.0102 ppm	0.0044 ppm	0.3008 ppm	0.0017 ppm	14.9574 ppm
Concentration per Run 2	-0.0021 ppm	72.6497 ppm	0.0103 ppm	0.0033 ppm	0.2780 ppm	0.0016 ppm	13.9302 ppm
Concentration per Run 3	-0.0020 ppm	70.4301 ppm	0.0103 ppm	0.0038 ppm	0.2692 ppm	0.0015 ppm	13.8447 ppm
Concentration RSD	14.2 %	5.8 %	0.8 %	14.5 %	5.8 %	5.3 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0493 ppm	0.1073 ppm	0.1700 ppm	127.2475 ppm	7.7073 ppm	28.6196 ppm
Concentration per Run 1	0.0003 ppm	0.0492 ppm	0.1068 ppm	0.1706 ppm	135.2908 ppm	8.1015 ppm	28.5400 ppm
Concentration per Run 2	0.0003 ppm	0.0493 ppm	0.1075 ppm	0.1696 ppm	125.0128 ppm	7.5123 ppm	28.6367 ppm
Concentration per Run 3	0.0004 ppm	0.0494 ppm	0.1076 ppm	0.1698 ppm	121.4388 ppm	7.5081 ppm	28.6820 ppm
Concentration RSD	15.0 %	0.2 %	0.4 %	0.3 %	5.7 %	4.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.2397 ppm	-0.0003 ppm	1.1092 ppm	0.1172 ppm	0.0474 ppm	-0.0009 ppm	0.0038 ppm
Concentration per Run 1	1.3172 ppm	-0.0003 ppm	1.1770 ppm	0.1170 ppm	0.0474 ppm	-0.0008 ppm	0.0033 ppm
Concentration per Run 2	1.2186 ppm	-0.0002 ppm	1.0930 ppm	0.1173 ppm	0.0476 ppm	-0.0008 ppm	0.0036 ppm
Concentration per Run 3	1.1832 ppm	-0.0004 ppm	1.0576 ppm	0.1175 ppm	0.0473 ppm	-0.0010 ppm	0.0045 ppm
Concentration RSD	5.6 %	23.8 %	5.5 %	0.2 %	0.3 %	10.6 %	16.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9705 ppm	0.0021 ppm	0.0559 ppm	1.8191 ppm	-0.0015 ppm	0.1644 ppm	0.3541 ppm
Concentration per Run 1	4.9591 ppm	0.0019 ppm	0.0595 ppm	1.8169 ppm	-0.0014 ppm	0.1642 ppm	0.3538 ppm
Concentration per Run 2	4.9884 ppm	0.0022 ppm	0.0549 ppm	1.8203 ppm	-0.0013 ppm	0.1644 ppm	0.3543 ppm
Concentration per Run 3	4.9640 ppm	0.0022 ppm	0.0533 ppm	1.8203 ppm	-0.0017 ppm	0.1647 ppm	0.3542 ppm
Concentration RSD	0.3 %	8.3 %	5.8 %	0.1 %	14.3 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	125.8425 %	118.8364 %	122.9782 %	85.9585 %	96.2282 %	102.0488 %	0.1476 ppm
Concentration per Run 1	120.5956 %	119.2210 %	122.9521 %	81.1876 %	96.3922 %	102.3104 %	0.1563 ppm
Concentration per Run 2	128.1398 %	118.6346 %	122.9898 %	87.0057 %	96.2144 %	102.0200 %	0.1445 ppm
Concentration per Run 3	128.7921 %	118.6537 %	122.9929 %	89.6822 %	96.0782 %	101.8160 %	0.1421 ppm
Concentration RSD	3.6 %	0.3 %	0.0 %	5.1 %	0.2 %	0.2 %	5.1 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433434-20d2 WG1936221
Analysis started at: 6/19/2024 11:16:48 PM
Rack: 2
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	60.1898 ppm	0.0338 ppm	0.0090 ppm	0.3693 ppm	0.0011 ppm	26.6890 ppm
Concentration per Run 1	-0.0003 ppm	58.5157 ppm	0.0339 ppm	0.0090 ppm	0.3586 ppm	0.0010 ppm	27.1355 ppm
Concentration per Run 2	-0.0008 ppm	60.3558 ppm	0.0342 ppm	0.0092 ppm	0.3705 ppm	0.0010 ppm	26.4841 ppm
Concentration per Run 3	-0.0005 ppm	61.6980 ppm	0.0335 ppm	0.0089 ppm	0.3790 ppm	0.0011 ppm	26.4475 ppm
Concentration RSD	42.6 %	2.7 %	1.0 %	1.2 %	2.8 %	3.9 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0019 ppm	0.0668 ppm	0.1326 ppm	0.3317 ppm	169.9765 ppm	7.2004 ppm	28.9447 ppm
Concentration per Run 1	0.0019 ppm	0.0668 ppm	0.1325 ppm	0.3319 ppm	165.5119 ppm	7.3107 ppm	28.9265 ppm
Concentration per Run 2	0.0019 ppm	0.0669 ppm	0.1321 ppm	0.3317 ppm	170.5512 ppm	7.1434 ppm	28.9451 ppm
Concentration per Run 3	0.0020 ppm	0.0668 ppm	0.1331 ppm	0.3316 ppm	173.8663 ppm	7.1473 ppm	28.9625 ppm
Concentration RSD	1.0 %	0.1 %	0.4 %	0.0 %	2.5 %	1.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.2774 ppm	0.0081 ppm	2.3706 ppm	0.2996 ppm	0.4638 ppm	0.0022 ppm	0.0061 ppm
Concentration per Run 1	3.1927 ppm	0.0080 ppm	2.2988 ppm	0.2992 ppm	0.4642 ppm	0.0019 ppm	0.0055 ppm
Concentration per Run 2	3.2854 ppm	0.0081 ppm	2.3746 ppm	0.2997 ppm	0.4623 ppm	0.0025 ppm	0.0055 ppm
Concentration per Run 3	3.3540 ppm	0.0081 ppm	2.4384 ppm	0.3000 ppm	0.4648 ppm	0.0021 ppm	0.0071 ppm
Concentration RSD	2.5 %	0.8 %	2.9 %	0.1 %	0.3 %	13.3 %	15.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0640 ppm	0.0160 ppm	0.0512 ppm	3.6872 ppm	0.0014 ppm	0.1936 ppm	0.6464 ppm
Concentration per Run 1	4.0820 ppm	0.0162 ppm	0.0497 ppm	3.6856 ppm	0.0023 ppm	0.1933 ppm	0.6470 ppm
Concentration per Run 2	4.0353 ppm	0.0161 ppm	0.0515 ppm	3.6848 ppm	0.0001 ppm	0.1936 ppm	0.6452 ppm
Concentration per Run 3	4.0749 ppm	0.0158 ppm	0.0525 ppm	3.6912 ppm	0.0018 ppm	0.1939 ppm	0.6471 ppm
Concentration RSD	0.6 %	1.1 %	2.8 %	0.1 %	85.4 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	124.8065 %	114.6293 %	118.2686 %	98.4190 %	93.7349 %	101.3173 %	0.0887 ppm
Concentration per Run 1	122.9353 %	114.6995 %	118.3300 %	101.2740 %	93.8481 %	101.4036 %	0.0863 ppm
Concentration per Run 2	125.7009 %	114.6610 %	118.3059 %	98.0322 %	93.8862 %	101.3015 %	0.0903 ppm
Concentration per Run 3	125.7834 %	114.5275 %	118.1700 %	95.9509 %	93.4703 %	101.2467 %	0.0896 ppm
Concentration RSD	1.3 %	0.1 %	0.1 %	2.7 %	0.2 %	0.1 %	2.4 %

ICP DataTrace 6

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LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-02d2 WG1936224
Analysis started at: 6/19/2024 11:23:22 PM
Rack: 2
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0019 ppm	109.2649 ppm	0.0222 ppm	0.0045 ppm	0.6609 ppm	0.0034 ppm	12.3364 ppm
Concentration per Run 1	-0.0019 ppm	115.9114 ppm	0.0220 ppm	0.0049 ppm	0.7025 ppm	0.0035 ppm	12.5686 ppm
Concentration per Run 2	-0.0018 ppm	107.0350 ppm	0.0230 ppm	0.0042 ppm	0.6462 ppm	0.0033 ppm	12.2396 ppm
Concentration per Run 3	-0.0021 ppm	104.8484 ppm	0.0216 ppm	0.0042 ppm	0.6338 ppm	0.0033 ppm	12.2009 ppm
Concentration RSD	6.8 %	5.4 %	3.3 %	9.0 %	5.5 %	4.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0970 ppm	0.1260 ppm	0.1406 ppm	232.1574 ppm	8.6319 ppm	51.5237 ppm
Concentration per Run 1	0.0007 ppm	0.0971 ppm	0.1260 ppm	0.1407 ppm	245.7900 ppm	8.8161 ppm	51.4503 ppm
Concentration per Run 2	0.0009 ppm	0.0968 ppm	0.1262 ppm	0.1405 ppm	227.7413 ppm	8.5294 ppm	51.5003 ppm
Concentration per Run 3	0.0009 ppm	0.0971 ppm	0.1259 ppm	0.1405 ppm	222.9410 ppm	8.5501 ppm	51.6205 ppm
Concentration RSD	10.6 %	0.2 %	0.1 %	0.1 %	5.2 %	1.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.1638 ppm	0.0043 ppm	1.3010 ppm	0.1602 ppm	0.0804 ppm	0.1380 ppm	0.0084 ppm
Concentration per Run 1	2.2934 ppm	0.0045 ppm	1.3793 ppm	0.1602 ppm	0.0800 ppm	0.1378 ppm	0.0100 ppm
Concentration per Run 2	2.1227 ppm	0.0043 ppm	1.2778 ppm	0.1606 ppm	0.0810 ppm	0.1381 ppm	0.0066 ppm
Concentration per Run 3	2.0753 ppm	0.0043 ppm	1.2457 ppm	0.1599 ppm	0.0804 ppm	0.1381 ppm	0.0086 ppm
Concentration RSD	5.3 %	2.7 %	5.4 %	0.2 %	0.6 %	0.1 %	20.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4739 ppm	0.0036 ppm	0.0581 ppm	4.0580 ppm	0.0000 ppm	0.1816 ppm	0.7809 ppm
Concentration per Run 1	3.4783 ppm	0.0035 ppm	0.0619 ppm	4.0594 ppm	-0.0002 ppm	0.1817 ppm	0.7813 ppm
Concentration per Run 2	3.4674 ppm	0.0034 ppm	0.0567 ppm	4.0564 ppm	0.0003 ppm	0.1810 ppm	0.7807 ppm
Concentration per Run 3	3.4759 ppm	0.0039 ppm	0.0555 ppm	4.0582 ppm	-0.0003 ppm	0.1821 ppm	0.7807 ppm
Concentration RSD	0.2 %	6.3 %	5.8 %	0.0 %	654.8 %	0.3 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	154.1422 %	140.7730 %	146.3254 %	89.3983 %	93.8831 %	101.5113 %	0.2097 ppm
Concentration per Run 1	152.8072 %	140.7495 %	146.5623 %	85.3406 %	93.8688 %	101.4746 %	0.2234 ppm
Concentration per Run 2	154.4049 %	140.8603 %	146.1281 %	90.3818 %	93.8204 %	101.6289 %	0.2043 ppm
Concentration per Run 3	155.2146 %	140.7092 %	146.2858 %	92.4725 %	93.9600 %	101.4303 %	0.2015 ppm
Concentration RSD	0.8 %	0.1 %	0.2 %	4.1 %	0.1 %	0.1 %	5.7 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-03d2 WG1936224
Analysis started at: 6/19/2024 11:29:54 PM
Rack: 2
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	73.5570 ppm	0.0704 ppm	0.0114 ppm	0.8374 ppm	0.0030 ppm	51.5041 ppm
Concentration per Run 1	0.0004 ppm	76.9388 ppm	0.0703 ppm	0.0114 ppm	0.8754 ppm	0.0030 ppm	52.3504 ppm
Concentration per Run 2	0.0009 ppm	72.4898 ppm	0.0699 ppm	0.0110 ppm	0.8253 ppm	0.0029 ppm	51.1871 ppm
Concentration per Run 3	0.0005 ppm	71.2424 ppm	0.0709 ppm	0.0119 ppm	0.8115 ppm	0.0029 ppm	50.9748 ppm
Concentration RSD	45.1 %	4.1 %	0.7 %	4.0 %	4.0 %	2.4 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0180 ppm	0.0954 ppm	0.1610 ppm	0.9346 ppm	**330.2014 ppm**	11.3308 ppm	51.9157 ppm
Concentration per Run 1	0.0177 ppm	0.0954 ppm	0.1608 ppm	0.9337 ppm	348.1669 ppm	11.5013 ppm	51.9752 ppm
Concentration per Run 2	0.0181 ppm	0.0956 ppm	0.1610 ppm	0.9349 ppm	326.4453 ppm	11.2588 ppm	51.9288 ppm
Concentration per Run 3	0.0182 ppm	0.0953 ppm	0.1613 ppm	0.9352 ppm	315.9919 ppm	11.2323 ppm	51.8430 ppm
Concentration RSD	1.4 %	0.2 %	0.2 %	0.1 %	5.0 %	1.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.0125 ppm	0.0135 ppm	0.5666 ppm	0.1443 ppm	2.5299 ppm	0.2431 ppm	0.0160 ppm
Concentration per Run 1	4.1898 ppm	0.0136 ppm	0.5870 ppm	0.1440 ppm	2.5261 ppm	0.2427 ppm	0.0164 ppm
Concentration per Run 2	3.9660 ppm	0.0135 ppm	0.5603 ppm	0.1446 ppm	2.5341 ppm	0.2445 ppm	0.0163 ppm
Concentration per Run 3	3.8816 ppm	0.0135 ppm	0.5524 ppm	0.1442 ppm	2.5295 ppm	0.2421 ppm	0.0153 ppm
Concentration RSD	4.0 %	0.6 %	3.2 %	0.2 %	0.2 %	0.5 %	3.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.6313 ppm	0.2710 ppm	0.1292 ppm	4.5010 ppm	0.0010 ppm	0.1779 ppm	18.9976 ppm
Concentration per Run 1	3.6366 ppm	0.2713 ppm	0.1349 ppm	4.5012 ppm	0.0010 ppm	0.1777 ppm	18.9416 ppm
Concentration per Run 2	3.6139 ppm	0.2715 ppm	0.1272 ppm	4.5047 ppm	0.0015 ppm	0.1784 ppm	19.0545 ppm
Concentration per Run 3	3.6433 ppm	0.2703 ppm	0.1254 ppm	4.4971 ppm	0.0006 ppm	0.1775 ppm	18.9966 ppm
Concentration RSD	0.4 %	0.2 %	3.9 %	0.1 %	45.5 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	128.5607 %	116.2651 %	118.2804 %	89.0697 %	89.9218 %	99.1469 %	0.1159 ppm
Concentration per Run 1	127.3046 %	116.3000 %	118.3472 %	85.7900 %	90.1012 %	99.0919 %	0.1216 ppm
Concentration per Run 2	128.8727 %	116.2697 %	118.3165 %	89.7033 %	89.7349 %	99.1008 %	0.1133 ppm
Concentration per Run 3	129.5049 %	116.2255 %	118.1774 %	91.7157 %	89.9294 %	99.2481 %	0.1129 ppm
Concentration RSD	0.9 %	0.0 %	0.1 %	3.4 %	0.2 %	0.1 %	4.2 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-04d2 WG1936224
Analysis started at: 6/19/2024 11:36:23 PM
Rack: 2
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	46.8390 ppm	0.0584 ppm	0.0216 ppm	0.5846 ppm	0.0023 ppm	110.3790 ppm
Concentration per Run 1	0.0010 ppm	49.0790 ppm	0.0579 ppm	0.0213 ppm	0.6120 ppm	0.0024 ppm	112.6709 ppm
Concentration per Run 2	0.0008 ppm	46.0710 ppm	0.0575 ppm	0.0217 ppm	0.5753 ppm	0.0023 ppm	109.5127 ppm
Concentration per Run 3	0.0010 ppm	45.3669 ppm	0.0598 ppm	0.0219 ppm	0.5664 ppm	0.0023 ppm	108.9533 ppm
Concentration RSD	10.0 %	4.2 %	2.1 %	1.3 %	4.1 %	3.4 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0023 ppm	0.0697 ppm	0.1073 ppm	0.6794 ppm	**258.8232 ppm**	7.1168 ppm	43.8149 ppm
Concentration per Run 1	0.0023 ppm	0.0697 ppm	0.1072 ppm	0.6788 ppm	270.6585 ppm	7.2467 ppm	43.8756 ppm
Concentration per Run 2	0.0024 ppm	0.0697 ppm	0.1072 ppm	0.6780 ppm	252.9213 ppm	7.0696 ppm	43.9138 ppm
Concentration per Run 3	0.0023 ppm	0.0698 ppm	0.1076 ppm	0.6814 ppm	252.8897 ppm	7.0340 ppm	43.6552 ppm
Concentration RSD	3.8 %	0.1 %	0.2 %	0.3 %	4.0 %	1.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.7749 ppm	0.0123 ppm	0.5371 ppm	0.1123 ppm	1.9176 ppm	0.0911 ppm	0.0130 ppm
Concentration per Run 1	7.0960 ppm	0.0123 ppm	0.5585 ppm	0.1120 ppm	1.9164 ppm	0.0920 ppm	0.0123 ppm
Concentration per Run 2	6.6649 ppm	0.0124 ppm	0.5303 ppm	0.1123 ppm	1.9183 ppm	0.0899 ppm	0.0144 ppm
Concentration per Run 3	6.5638 ppm	0.0123 ppm	0.5226 ppm	0.1126 ppm	1.9180 ppm	0.0916 ppm	0.0122 ppm
Concentration RSD	4.2 %	0.6 %	3.5 %	0.3 %	0.1 %	1.2 %	9.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7210 ppm	0.2797 ppm	0.1611 ppm	3.2012 ppm	0.0006 ppm	0.1332 ppm	0.9704 ppm
Concentration per Run 1	2.7278 ppm	0.2794 ppm	0.1685 ppm	3.2014 ppm	0.0015 ppm	0.1334 ppm	0.9694 ppm
Concentration per Run 2	2.7082 ppm	0.2800 ppm	0.1588 ppm	3.2043 ppm	-0.0003 ppm	0.1332 ppm	0.9719 ppm
Concentration per Run 3	2.7269 ppm	0.2797 ppm	0.1561 ppm	3.1980 ppm	0.0006 ppm	0.1330 ppm	0.9700 ppm
Concentration RSD	0.4 %	0.1 %	4.0 %	0.1 %	152.9 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	121.6035 %	109.3925 %	110.6961 %	88.3853 %	90.6351 %	97.7432 %	0.0554 ppm
Concentration per Run 1	119.5945 %	109.4803 %	110.6015 %	84.6322 %	90.6089 %	97.8191 %	0.0583 ppm
Concentration per Run 2	122.6866 %	109.2666 %	110.8660 %	89.8410 %	90.7645 %	97.5753 %	0.0542 ppm
Concentration per Run 3	122.5295 %	109.4305 %	110.6209 %	90.6825 %	90.5319 %	97.8351 %	0.0538 ppm
Concentration RSD	1.4 %	0.1 %	0.1 %	3.7 %	0.1 %	0.1 %	4.5 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-05d2 WG1936224
Analysis started at: 6/19/2024 11:42:54 PM
Rack: 2
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0073 ppm	57.3987 ppm	0.1384 ppm	0.0213 ppm	2.8566 ppm	0.0029 ppm	99.8411 ppm
Concentration per Run 1	0.0073 ppm	59.2617 ppm	0.1368 ppm	0.0211 ppm	2.9749 ppm	0.0030 ppm	101.3140 ppm
Concentration per Run 2	0.0072 ppm	56.7963 ppm	0.1391 ppm	0.0212 ppm	2.8329 ppm	0.0028 ppm	99.1991 ppm
Concentration per Run 3	0.0074 ppm	56.1381 ppm	0.1393 ppm	0.0215 ppm	2.7620 ppm	0.0028 ppm	99.0102 ppm
Concentration RSD	1.5 %	2.9 %	1.0 %	1.1 %	3.8 %	3.3 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0086 ppm	0.0957 ppm	0.1209 ppm	4.2610 ppm	417.7868 ppm	7.4458 ppm	54.9989 ppm
Concentration per Run 1	0.0085 ppm	0.0958 ppm	0.1209 ppm	4.2539 ppm	436.4978 ppm	7.5309 ppm	55.0128 ppm
Concentration per Run 2	0.0087 ppm	0.0957 ppm	0.1208 ppm	4.2660 ppm	410.5740 ppm	7.3965 ppm	54.7830 ppm
Concentration per Run 3	0.0086 ppm	0.0957 ppm	0.1212 ppm	4.2632 ppm	406.2885 ppm	7.4099 ppm	55.2009 ppm
Concentration RSD	1.0 %	0.1 %	0.2 %	0.1 %	3.9 %	1.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.1772 ppm	0.0148 ppm	0.5978 ppm	0.1611 ppm	39.3005 ppm	6.6209 ppm	0.0206 ppm
Concentration per Run 1	4.3239 ppm	0.0148 ppm	0.6151 ppm	0.1614 ppm	39.3717 ppm	6.6373 ppm	0.0237 ppm
Concentration per Run 2	4.1267 ppm	0.0147 ppm	0.5945 ppm	0.1605 ppm	39.2306 ppm	6.6193 ppm	0.0202 ppm
Concentration per Run 3	4.0811 ppm	0.0148 ppm	0.5838 ppm	0.1614 ppm	39.2992 ppm	6.6062 ppm	0.0179 ppm
Concentration RSD	3.1 %	0.1 %	2.7 %	0.3 %	0.2 %	0.2 %	14.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8284 ppm	11.0393 ppm	0.2178 ppm	3.3969 ppm	-0.0018 ppm	0.1780 ppm	3.3029 ppm
Concentration per Run 1	4.8381 ppm	11.0623 ppm	0.2242 ppm	3.3956 ppm	-0.0022 ppm	0.1783 ppm	3.3079 ppm
Concentration per Run 2	4.8199 ppm	11.0166 ppm	0.2157 ppm	3.3943 ppm	-0.0008 ppm	0.1780 ppm	3.2930 ppm
Concentration per Run 3	4.8271 ppm	11.0389 ppm	0.2136 ppm	3.4007 ppm	-0.0024 ppm	0.1777 ppm	3.3078 ppm
Concentration RSD	0.2 %	0.2 %	2.6 %	0.1 %	47.7 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	129.4506 %	116.2454 %	115.3587 %	89.4711 %	88.2416 %	97.4583 %	0.0833 ppm
Concentration per Run 1	127.4168 %	116.1709 %	115.3242 %	86.1076 %	88.1683 %	97.3785 %	0.0847 ppm
Concentration per Run 2	130.3348 %	116.5095 %	115.3274 %	90.5237 %	88.2612 %	97.6455 %	0.0826 ppm
Concentration per Run 3	130.6003 %	116.0558 %	115.4245 %	91.7820 %	88.2952 %	97.3509 %	0.0827 ppm
Concentration RSD	1.4 %	0.2 %	0.0 %	3.3 %	0.1 %	0.2 %	1.4 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-06d2 WG1936224
Analysis started at: 6/19/2024 11:49:49 PM
Rack: 2
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0024 ppm	63.1276 ppm	0.0922 ppm	0.0322 ppm	0.6614 ppm	0.0024 ppm	124.5094 ppm
Concentration per Run 1	0.0021 ppm	65.6817 ppm	0.0911 ppm	0.0317 ppm	0.6873 ppm	0.0025 ppm	126.7914 ppm
Concentration per Run 2	0.0027 ppm	62.2621 ppm	0.0933 ppm	0.0322 ppm	0.6521 ppm	0.0024 ppm	123.4856 ppm
Concentration per Run 3	0.0023 ppm	61.4391 ppm	0.0923 ppm	0.0327 ppm	0.6447 ppm	0.0024 ppm	123.2512 ppm
Concentration RSD	12.6 %	3.6 %	1.2 %	1.6 %	3.4 %	2.7 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0032 ppm	0.1267 ppm	0.1457 ppm	2.8608 ppm	**368.0378 ppm**	7.5867 ppm	68.7099 ppm
Concentration per Run 1	0.0030 ppm	0.1268 ppm	0.1453 ppm	2.8623 ppm	386.3262 ppm	7.7171 ppm	68.7287 ppm
Concentration per Run 2	0.0034 ppm	0.1266 ppm	0.1459 ppm	2.8639 ppm	360.4830 ppm	7.5234 ppm	68.6666 ppm
Concentration per Run 3	0.0032 ppm	0.1268 ppm	0.1460 ppm	2.8564 ppm	357.3042 ppm	7.5195 ppm	68.7342 ppm
Concentration RSD	5.7 %	0.1 %	0.3 %	0.1 %	4.3 %	1.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.4328 ppm	0.0150 ppm	0.6667 ppm	0.1498 ppm	1.8926 ppm	0.1277 ppm	0.0152 ppm
Concentration per Run 1	5.6501 ppm	0.0148 ppm	0.6894 ppm	0.1497 ppm	1.8925 ppm	0.1277 ppm	0.0142 ppm
Concentration per Run 2	5.3627 ppm	0.0153 ppm	0.6594 ppm	0.1496 ppm	1.8943 ppm	0.1269 ppm	0.0167 ppm
Concentration per Run 3	5.2854 ppm	0.0150 ppm	0.6514 ppm	0.1500 ppm	1.8910 ppm	0.1284 ppm	0.0149 ppm
Concentration RSD	3.5 %	1.5 %	3.0 %	0.1 %	0.1 %	0.6 %	8.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.3471 ppm	0.6447 ppm	0.1930 ppm	2.8970 ppm	-0.0006 ppm	0.2423 ppm	0.8639 ppm
Concentration per Run 1	2.3630 ppm	0.6451 ppm	0.2008 ppm	2.8953 ppm	-0.0017 ppm	0.2423 ppm	0.8642 ppm
Concentration per Run 2	2.3369 ppm	0.6439 ppm	0.1905 ppm	2.8989 ppm	0.0004 ppm	0.2426 ppm	0.8648 ppm
Concentration per Run 3	2.3415 ppm	0.6452 ppm	0.1878 ppm	2.8969 ppm	-0.0005 ppm	0.2421 ppm	0.8628 ppm
Concentration RSD	0.6 %	0.1 %	3.6 %	0.1 %	163.5 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	129.2410 %	115.0776 %	115.2630 %	88.5499 %	88.0052 %	96.3975 %	0.0856 ppm
Concentration per Run 1	127.5432 %	114.8762 %	115.3726 %	85.5463 %	88.1200 %	96.2799 %	0.0890 ppm
Concentration per Run 2	129.8767 %	115.2315 %	115.3858 %	89.3411 %	87.9667 %	96.4229 %	0.0847 ppm
Concentration per Run 3	130.3030 %	115.1250 %	115.0306 %	90.7625 %	87.9289 %	96.4898 %	0.0832 ppm
Concentration RSD	1.1 %	0.2 %	0.2 %	3.0 %	0.1 %	0.1 %	3.5 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: EL2433379-07d2 WG1936224
Analysis started at: 6/19/2024 11:56:21 PM
Rack: 2
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0021 ppm	32.9365 ppm	0.0179 ppm	0.0021 ppm	0.1050 ppm	0.0011 ppm	819.7078 ppm
Concentration per Run 1	0.0020 ppm	34.8116 ppm	0.0177 ppm	0.0021 ppm	0.1108 ppm	0.0012 ppm	851.6014 ppm
Concentration per Run 2	0.0022 ppm	32.3851 ppm	0.0188 ppm	0.0020 ppm	0.1032 ppm	0.0011 ppm	803.6016 ppm
Concentration per Run 3	0.0020 ppm	31.6127 ppm	0.0173 ppm	0.0021 ppm	0.1010 ppm	0.0011 ppm	803.9202 ppm
Concentration RSD	6.7 %	5.1 %	4.4 %	1.9 %	4.9 %	4.4 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0351 ppm	0.0392 ppm	4.5046 ppm	109.9966 ppm	2.8078 ppm	**510.9837 ppm**
Concentration per Run 1	0.0009 ppm	0.0349 ppm	0.0391 ppm	4.5065 ppm	116.5551 ppm	2.8603 ppm	512.5115 ppm
Concentration per Run 2	0.0009 ppm	0.0354 ppm	0.0390 ppm	4.5145 ppm	108.2034 ppm	2.7718 ppm	509.9730 ppm
Concentration per Run 3	0.0009 ppm	0.0351 ppm	0.0395 ppm	4.4927 ppm	105.2313 ppm	2.7913 ppm	510.4666 ppm
Concentration RSD	2.1 %	0.7 %	0.6 %	0.2 %	5.3 %	1.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.0323 ppm	0.0025 ppm	0.7768 ppm	0.0595 ppm	0.3919 ppm	0.0276 ppm	-0.0051 ppm
Concentration per Run 1	3.2087 ppm	0.0025 ppm	0.8077 ppm	0.0595 ppm	0.3905 ppm	0.0281 ppm	-0.0049 ppm
Concentration per Run 2	2.9851 ppm	0.0024 ppm	0.7605 ppm	0.0596 ppm	0.3931 ppm	0.0275 ppm	-0.0043 ppm
Concentration per Run 3	2.9030 ppm	0.0026 ppm	0.7621 ppm	0.0594 ppm	0.3920 ppm	0.0272 ppm	-0.0062 ppm
Concentration RSD	5.2 %	3.3 %	3.5 %	0.2 %	0.3 %	1.5 %	19.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.1383 ppm	0.0827 ppm	0.6335 ppm	1.1753 ppm	-0.0013 ppm	0.0625 ppm	0.6458 ppm
Concentration per Run 1	2.1515 ppm	0.0822 ppm	0.6669 ppm	1.1771 ppm	-0.0018 ppm	0.0629 ppm	0.6432 ppm
Concentration per Run 2	2.1316 ppm	0.0833 ppm	0.6238 ppm	1.1745 ppm	-0.0011 ppm	0.0625 ppm	0.6484 ppm
Concentration per Run 3	2.1318 ppm	0.0827 ppm	0.6097 ppm	1.1744 ppm	-0.0010 ppm	0.0623 ppm	0.6457 ppm
Concentration RSD	0.5 %	0.7 %	4.7 %	0.1 %	33.4 %	0.5 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	118.8903 %	101.6274 %	102.5362 %	78.9123 %	90.5227 %	85.0562 %	-0.1257 ppm
Concentration per Run 1	116.1081 %	101.6226 %	102.5100 %	74.4149 %	90.9413 %	84.9994 %	-0.1383 ppm
Concentration per Run 2	119.6678 %	101.6710 %	102.5503 %	79.9568 %	90.1386 %	85.0241 %	-0.1205 ppm
Concentration per Run 3	120.8950 %	101.5886 %	102.5484 %	82.3651 %	90.4881 %	85.1452 %	-0.1184 ppm
Concentration RSD	2.1 %	0.0 %	0.0 %	5.2 %	0.4 %	0.1 %	8.7 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/20/2024 12:03:04 AM
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5185 ppm	0.4776 ppm	0.4605 ppm	0.4521 ppm	0.4991 ppm	0.5237 ppm	0.4836 ppm
Concentration per Run 1	0.5182 ppm	0.5107 ppm	0.4608 ppm	0.4552 ppm	0.5322 ppm	0.5579 ppm	0.5077 ppm
Concentration per Run 2	0.5197 ppm	0.4681 ppm	0.4595 ppm	0.4545 ppm	0.4894 ppm	0.5149 ppm	0.4742 ppm
Concentration per Run 3	0.5174 ppm	0.4539 ppm	0.4612 ppm	0.4466 ppm	0.4755 ppm	0.4982 ppm	0.4688 ppm
Recovery Percentage 1	103.692 %	95.515 %	92.097 %	90.421 %	99.810 %	104.731 %	96.716 %
Concentration RSD	0.2 %	6.2 %	0.2 %	1.1 %	5.9 %	5.9 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4802 ppm	0.4782 ppm	0.4703 ppm	0.4526 ppm	0.5582 ppm	5.0404 ppm	0.4813 ppm
Concentration per Run 1	0.4841 ppm	0.4821 ppm	0.4690 ppm	0.4538 ppm	0.5976 ppm	5.2791 ppm	0.4781 ppm
Concentration per Run 2	0.4833 ppm	0.4808 ppm	0.4719 ppm	0.4522 ppm	0.5472 ppm	4.9286 ppm	0.4828 ppm
Concentration per Run 3	0.4731 ppm	0.4715 ppm	0.4701 ppm	0.4520 ppm	0.5298 ppm	4.9136 ppm	0.4830 ppm
Recovery Percentage 1	96.032 %	95.631 %	94.066 %	90.528 %	111.642 %	100.809 %	96.261 %
Concentration RSD	1.3 %	1.2 %	0.3 %	0.2 %	6.3 %	4.1 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5611 ppm	0.4609 ppm	10.6634 ppm	0.4809 ppm	0.4808 ppm	0.4555 ppm	0.4551 ppm
Concentration per Run 1	0.5988 ppm	0.4631 ppm	11.3633 ppm	0.4842 ppm	0.4838 ppm	0.4570 ppm	0.4572 ppm
Concentration per Run 2	0.5519 ppm	0.4639 ppm	10.4708 ppm	0.4840 ppm	0.4839 ppm	0.4588 ppm	0.4588 ppm
Concentration per Run 3	0.5327 ppm	0.4556 ppm	10.1561 ppm	0.4744 ppm	0.4749 ppm	0.4506 ppm	0.4492 ppm
Recovery Percentage 1	112.230 %	92.173 %	106.634 %	96.176 %	96.169 %	91.094 %	91.011 %
Concentration RSD	6.1 %	1.0 %	5.9 %	1.2 %	1.1 %	0.9 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8685 ppm	0.4776 ppm	0.5323 ppm	0.4997 ppm	0.4781 ppm	0.5042 ppm	0.4866 ppm
Concentration per Run 1	4.8670 ppm	0.4808 ppm	0.5675 ppm	0.4993 ppm	0.4824 ppm	0.5037 ppm	0.4911 ppm
Concentration per Run 2	4.8715 ppm	0.4802 ppm	0.5222 ppm	0.5010 ppm	0.4801 ppm	0.5049 ppm	0.4893 ppm
Concentration per Run 3	4.8669 ppm	0.4718 ppm	0.5072 ppm	0.4987 ppm	0.4717 ppm	0.5040 ppm	0.4793 ppm
Recovery Percentage 1	92.733 %	95.523 %	106.454 %	99.936 %	95.622 %	100.843 %	97.318 %
Concentration RSD	0.1 %	1.1 %	5.9 %	0.2 %	1.2 %	0.1 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	107.0885 %	104.0799 %	107.0519 %	83.5384 %	103.5600 %	102.0218 %	0.5237 ppm
Concentration per Run 1	102.1858 %	104.1839 %	107.0310 %	78.5713 %	102.8942 %	102.1762 %	0.5557 ppm
Concentration per Run 2	109.4440 %	103.9461 %	106.9899 %	84.7208 %	102.9357 %	101.9122 %	0.5156 ppm
Concentration per Run 3	109.6357 %	104.1096 %	107.1347 %	87.3231 %	104.8502 %	101.9769 %	0.4999 ppm
Recovery Percentage 1							104.749 %
Concentration RSD	4.0 %	0.1 %	0.1 %	5.4 %	1.1 %	0.1 %	5.5 %

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/20/2024 12:09:24 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0035 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0041 ppm	0.0020 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	0.0070 ppm	0.0012 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Recovery Percentage 1	0.301 %	0.001 %	27.651 %	0.568 %	0.571 %	0.430 %	0.000 %
Concentration RSD	291.2 %	108.5 %	43.2 %	63.9 %	95.8 %	46.0 %	203.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0021 ppm	-0.0041 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0024 ppm	-0.0119 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0003 ppm	0.0017 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0022 ppm	0.0014 ppm	-0.0016 ppm
Recovery Percentage 1	-0.020 %	0.630 %	4.416 %	-3.349 %	0.001 %	-0.165 %	0.000 %
Concentration RSD	4,762.0 %	53.2 %	31.9 %	26.3 %	17.7 %	168.3 %	162.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	-0.0236 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	-0.0292 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	-0.0223 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0016 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	-0.0193 ppm	0.0000 ppm	-0.0006 ppm	0.0002 ppm	0.0016 ppm
Recovery Percentage 1	2.231 %	0.475 %	-1.180 %	0.029 %	-1.606 %	0.709 %	12.071 %
Concentration RSD	36.7 %	65.4 %	21.5 %	678.4 %	251.0 %	32.2 %	55.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0031 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0034 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0030 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm	0.0004 ppm
Recovery Percentage 1	0.630 %	0.049 %	0.337 %	1.212 %	4.535 %	-0.531 %	8.164 %
Concentration RSD	8.0 %	508.3 %	142.3 %	85.4 %	4.4 %	146.4 %	5.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	107.6114 %	106.2864 %	107.9248 %	77.5761 %	105.9079 %	101.8549 %	0.0006 ppm
Concentration per Run 1	103.5255 %	106.3267 %	107.9185 %	71.3783 %	105.9151 %	101.7773 %	0.0005 ppm
Concentration per Run 2	109.9935 %	106.2039 %	107.9244 %	79.1915 %	105.7926 %	101.7654 %	0.0015 ppm
Concentration per Run 3	109.3152 %	106.3286 %	107.9316 %	82.1586 %	106.0159 %	102.0219 %	-0.0003 ppm
Recovery Percentage 1							5.984 %
Concentration RSD	3.3 %	0.1 %	0.0 %	7.2 %	0.1 %	0.1 %	149.6 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/20/2024 12:16:08 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5132 ppm	0.4610 ppm	0.4595 ppm	0.4514 ppm	0.4869 ppm	0.5142 ppm	0.4651 ppm
Concentration per Run 1	0.5137 ppm	0.4411 ppm	0.4578 ppm	0.4510 ppm	0.4637 ppm	0.4900 ppm	0.4519 ppm
Concentration per Run 2	0.5132 ppm	0.4934 ppm	0.4605 ppm	0.4515 ppm	0.5197 ppm	0.5487 ppm	0.4852 ppm
Concentration per Run 3	0.5129 ppm	0.4483 ppm	0.4603 ppm	0.4517 ppm	0.4773 ppm	0.5040 ppm	0.4581 ppm
Recovery Percentage 1	102.649 %	92.190 %	91.908 %	90.280 %	97.378 %	102.848 %	93.011 %
Concentration RSD	0.1 %	6.2 %	0.3 %	0.1 %	6.0 %	6.0 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4821 ppm	0.4801 ppm	0.4692 ppm	0.4482 ppm	0.5458 ppm	4.8807 ppm	0.4804 ppm
Concentration per Run 1	0.4823 ppm	0.4796 ppm	0.4694 ppm	0.4476 ppm	0.5180 ppm	4.7358 ppm	0.4813 ppm
Concentration per Run 2	0.4820 ppm	0.4805 ppm	0.4697 ppm	0.4488 ppm	0.5840 ppm	5.0611 ppm	0.4816 ppm
Concentration per Run 3	0.4818 ppm	0.4802 ppm	0.4685 ppm	0.4481 ppm	0.5353 ppm	4.8452 ppm	0.4782 ppm
Recovery Percentage 1	96.410 %	96.019 %	93.838 %	89.635 %	109.155 %	97.614 %	96.072 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %	6.3 %	3.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5523 ppm	0.4628 ppm	10.4518 ppm	0.4820 ppm	0.4817 ppm	0.4563 ppm	0.4537 ppm
Concentration per Run 1	0.5267 ppm	0.4610 ppm	9.9544 ppm	0.4811 ppm	0.4808 ppm	0.4564 ppm	0.4532 ppm
Concentration per Run 2	0.5886 ppm	0.4638 ppm	11.1584 ppm	0.4823 ppm	0.4828 ppm	0.4562 ppm	0.4544 ppm
Concentration per Run 3	0.5415 ppm	0.4635 ppm	10.2425 ppm	0.4825 ppm	0.4817 ppm	0.4562 ppm	0.4535 ppm
Recovery Percentage 1	110.457 %	92.553 %	104.518 %	96.392 %	96.349 %	91.251 %	90.741 %
Concentration RSD	5.9 %	0.3 %	6.0 %	0.2 %	0.2 %	0.0 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1979 ppm	0.4677 ppm	0.5174 ppm	0.4969 ppm	0.4798 ppm	0.5021 ppm	0.4885 ppm
Concentration per Run 1	5.1860 ppm	0.4677 ppm	0.4918 ppm	0.4977 ppm	0.4793 ppm	0.5029 ppm	0.4888 ppm
Concentration per Run 2	5.2001 ppm	0.4680 ppm	0.5523 ppm	0.4970 ppm	0.4802 ppm	0.5021 ppm	0.4889 ppm
Concentration per Run 3	5.2077 ppm	0.4673 ppm	0.5080 ppm	0.4959 ppm	0.4799 ppm	0.5012 ppm	0.4877 ppm
Recovery Percentage 1	99.008 %	93.533 %	103.471 %	99.372 %	95.955 %	100.416 %	97.699 %
Concentration RSD	0.2 %	0.1 %	6.1 %	0.2 %	0.1 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	109.5452 %	103.9321 %	106.9974 %	84.7987 %	103.1147 %	102.0207 %	0.6545 ppm
Concentration per Run 1	112.2152 %	103.8393 %	107.1988 %	88.4042 %	103.3211 %	101.8516 %	0.6225 ppm
Concentration per Run 2	105.8624 %	103.8921 %	106.9434 %	79.5414 %	102.9609 %	102.0072 %	0.6969 ppm
Concentration per Run 3	110.5579 %	104.0648 %	106.8499 %	86.4504 %	103.0619 %	102.2034 %	0.6441 ppm
Recovery Percentage 1							130.905 %
Concentration RSD	3.0 %	0.1 %	0.2 %	5.5 %	0.2 %	0.2 %	5.8 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/20/2024 12:22:26 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0032 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0026 ppm	0.0008 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 2	-0.0005 ppm	0.0022 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	-0.0005 ppm	0.0047 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0021 ppm
Recovery Percentage 1	-4.991 %	0.001 %	6.978 %	1.285 %	1.442 %	0.018 %	0.000 %
Concentration RSD	83.9 %	42.0 %	104.8 %	28.3 %	50.0 %	4,545.2 %	1,912.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0003 ppm	0.0017 ppm	0.0125 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0021 ppm	0.0071 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0008 ppm	-0.0004 ppm	0.0020 ppm	0.0304 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0009 ppm	0.0001 ppm	0.0016 ppm
Recovery Percentage 1	0.201 %	0.848 %	4.107 %	-3.238 %	0.001 %	0.500 %	0.000 %
Concentration RSD	117.9 %	58.8 %	85.9 %	24.5 %	40.4 %	127.1 %	540.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	-0.0219 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	-0.0213 ppm	0.0001 ppm	-0.0003 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0186 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	-0.0258 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	-0.0010 ppm
Recovery Percentage 1	2.234 %	0.553 %	-1.096 %	0.179 %	-0.614 %	1.597 %	-2.562 %
Concentration RSD	31.6 %	26.0 %	16.7 %	148.2 %	371.6 %	37.4 %	283.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0026 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0029 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0030 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0017 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm
Recovery Percentage 1	0.513 %	-0.302 %	0.607 %	2.536 %	4.184 %	-1.747 %	8.134 %
Concentration RSD	28.7 %	14.3 %	17.1 %	13.8 %	71.8 %	35.8 %	16.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	107.7572 %	106.4854 %	107.9388 %	77.1999 %	106.2424 %	101.6829 %	0.0003 ppm
Concentration per Run 1	103.4280 %	106.3699 %	108.1013 %	71.3095 %	106.1514 %	101.5753 %	-0.0001 ppm
Concentration per Run 2	109.8366 %	106.6241 %	107.9774 %	78.1560 %	106.1156 %	101.7579 %	0.0008 ppm
Concentration per Run 3	110.0070 %	106.4621 %	107.7378 %	82.1342 %	106.4601 %	101.7154 %	0.0002 ppm
Recovery Percentage 1							2.917 %
Concentration RSD	3.5 %	0.1 %	0.2 %	7.1 %	0.2 %	0.1 %	146.1 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-08d2 WG1936224
Analysis started at: 6/20/2024 12:29:10 AM
Rack: 2
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	42.6724 ppm	0.0286 ppm	0.0082 ppm	0.1528 ppm	0.0012 ppm	599.5575 ppm
Concentration per Run 1	-0.0006 ppm	44.9193 ppm	0.0283 ppm	0.0081 ppm	0.1606 ppm	0.0013 ppm	620.4255 ppm
Concentration per Run 2	-0.0006 ppm	42.0131 ppm	0.0292 ppm	0.0081 ppm	0.1506 ppm	0.0011 ppm	589.4786 ppm
Concentration per Run 3	-0.0009 ppm	41.0850 ppm	0.0284 ppm	0.0085 ppm	0.1472 ppm	0.0012 ppm	588.7685 ppm
Concentration RSD	26.3 %	4.7 %	1.8 %	2.5 %	4.6 %	7.3 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.1190 ppm	0.1232 ppm	0.1963 ppm	133.1864 ppm	7.2598 ppm	266.7120 ppm
Concentration per Run 1	0.0008 ppm	0.1190 ppm	0.1239 ppm	0.1961 ppm	140.6472 ppm	7.4082 ppm	267.0245 ppm
Concentration per Run 2	0.0008 ppm	0.1190 ppm	0.1230 ppm	0.1960 ppm	130.9723 ppm	7.1526 ppm	267.6113 ppm
Concentration per Run 3	0.0009 ppm	0.1190 ppm	0.1228 ppm	0.1968 ppm	127.9398 ppm	7.2185 ppm	265.5001 ppm
Concentration RSD	4.4 %	0.0 %	0.5 %	0.2 %	5.0 %	1.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.5752 ppm	0.0185 ppm	0.4826 ppm	0.0840 ppm	0.2190 ppm	0.0653 ppm	0.0003 ppm
Concentration per Run 1	2.7200 ppm	0.0183 ppm	0.5074 ppm	0.0840 ppm	0.2187 ppm	0.0650 ppm	0.0005 ppm
Concentration per Run 2	2.5285 ppm	0.0185 ppm	0.4788 ppm	0.0840 ppm	0.2187 ppm	0.0656 ppm	-0.0010 ppm
Concentration per Run 3	2.4770 ppm	0.0185 ppm	0.4616 ppm	0.0841 ppm	0.2195 ppm	0.0652 ppm	0.0015 ppm
Concentration RSD	5.0 %	0.7 %	4.8 %	0.1 %	0.2 %	0.5 %	407.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.8493 ppm	0.0794 ppm	0.4803 ppm	2.2877 ppm	0.0001 ppm	0.0992 ppm	0.2943 ppm
Concentration per Run 1	3.8330 ppm	0.0791 ppm	0.5047 ppm	2.2915 ppm	-0.0002 ppm	0.0991 ppm	0.2942 ppm
Concentration per Run 2	3.8505 ppm	0.0796 ppm	0.4738 ppm	2.2864 ppm	0.0005 ppm	0.0992 ppm	0.2939 ppm
Concentration per Run 3	3.8645 ppm	0.0794 ppm	0.4623 ppm	2.2851 ppm	0.0001 ppm	0.0992 ppm	0.2948 ppm
Concentration RSD	0.4 %	0.3 %	4.6 %	0.1 %	291.4 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	120.2136 %	104.2108 %	104.9105 %	81.3529 %	90.6188 %	88.7665 %	-0.0586 ppm
Concentration per Run 1	117.7607 %	104.1995 %	105.0034 %	77.1748 %	90.6309 %	88.7007 %	-0.0649 ppm
Concentration per Run 2	121.5665 %	104.2014 %	104.7956 %	82.5967 %	90.5713 %	88.8157 %	-0.0561 ppm
Concentration per Run 3	121.3135 %	104.2315 %	104.9324 %	84.2871 %	90.6542 %	88.7832 %	-0.0549 ppm
Concentration RSD	1.8 %	0.0 %	0.1 %	4.6 %	0.0 %	0.1 %	9.3 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-09d2 WG1936224
Analysis started at: 6/20/2024 12:35:52 AM
Rack: 2
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	116.7970 ppm	0.0185 ppm	0.0159 ppm	0.3804 ppm	0.0060 ppm	21.0581 ppm
Concentration per Run 1	-0.0008 ppm	122.5366 ppm	0.0186 ppm	0.0161 ppm	0.3985 ppm	0.0064 ppm	21.4549 ppm
Concentration per Run 2	-0.0006 ppm	115.0725 ppm	0.0187 ppm	0.0160 ppm	0.3755 ppm	0.0059 ppm	20.8760 ppm
Concentration per Run 3	-0.0008 ppm	112.7819 ppm	0.0183 ppm	0.0156 ppm	0.3672 ppm	0.0057 ppm	20.8434 ppm
Concentration RSD	16.7 %	4.4 %	1.2 %	1.5 %	4.3 %	5.5 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.0578 ppm	0.1320 ppm	0.0518 ppm	165.3103 ppm	5.2378 ppm	24.7939 ppm
Concentration per Run 1	0.0010 ppm	0.0581 ppm	0.1320 ppm	0.0518 ppm	174.3000 ppm	5.3631 ppm	24.7675 ppm
Concentration per Run 2	0.0012 ppm	0.0577 ppm	0.1323 ppm	0.0518 ppm	162.2778 ppm	5.1810 ppm	24.8400 ppm
Concentration per Run 3	0.0011 ppm	0.0577 ppm	0.1316 ppm	0.0518 ppm	159.3533 ppm	5.1694 ppm	24.7741 ppm
Concentration RSD	10.6 %	0.5 %	0.3 %	0.1 %	4.8 %	2.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4576 ppm	0.0046 ppm	2.2342 ppm	0.0970 ppm	0.0550 ppm	-0.0004 ppm	0.0058 ppm
Concentration per Run 1	1.5307 ppm	0.0045 ppm	2.3278 ppm	0.0970 ppm	0.0545 ppm	-0.0001 ppm	0.0040 ppm
Concentration per Run 2	1.4354 ppm	0.0046 ppm	2.2162 ppm	0.0972 ppm	0.0555 ppm	0.0003 ppm	0.0062 ppm
Concentration per Run 3	1.4066 ppm	0.0047 ppm	2.1587 ppm	0.0968 ppm	0.0550 ppm	-0.0014 ppm	0.0070 ppm
Concentration RSD	4.5 %	2.6 %	3.8 %	0.2 %	0.9 %	204.7 %	27.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.2559 ppm	0.0039 ppm	0.1008 ppm	3.9994 ppm	0.0004 ppm	0.1605 ppm	0.2723 ppm
Concentration per Run 1	4.2480 ppm	0.0042 ppm	0.1054 ppm	3.9991 ppm	0.0006 ppm	0.1610 ppm	0.2722 ppm
Concentration per Run 2	4.2599 ppm	0.0039 ppm	0.0996 ppm	4.0002 ppm	0.0001 ppm	0.1607 ppm	0.2730 ppm
Concentration per Run 3	4.2598 ppm	0.0035 ppm	0.0974 ppm	3.9989 ppm	0.0006 ppm	0.1599 ppm	0.2718 ppm
Concentration RSD	0.2 %	8.8 %	4.1 %	0.0 %	75.4 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	145.1586 %	133.1537 %	134.1662 %	89.3788 %	95.1847 %	101.3615 %	0.1411 ppm
Concentration per Run 1	142.8605 %	133.1114 %	134.1344 %	85.2468 %	95.0768 %	101.3096 %	0.1481 ppm
Concentration per Run 2	146.5138 %	133.0339 %	134.2528 %	90.7048 %	95.0963 %	101.2958 %	0.1382 ppm
Concentration per Run 3	146.1015 %	133.3157 %	134.1112 %	92.1847 %	95.3808 %	101.4790 %	0.1371 ppm
Concentration RSD	1.4 %	0.1 %	0.1 %	4.1 %	0.2 %	0.1 %	4.3 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-10d2 WG1936224
Analysis started at: 6/20/2024 12:42:26 AM
Rack: 2
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0013 ppm	82.2545 ppm	0.0234 ppm	0.0069 ppm	0.4060 ppm	0.0033 ppm	15.2046 ppm
Concentration per Run 1	-0.0012 ppm	86.1179 ppm	0.0241 ppm	0.0068 ppm	0.4253 ppm	0.0034 ppm	15.5134 ppm
Concentration per Run 2	-0.0012 ppm	81.0745 ppm	0.0232 ppm	0.0067 ppm	0.3994 ppm	0.0033 ppm	15.0824 ppm
Concentration per Run 3	-0.0014 ppm	79.5710 ppm	0.0227 ppm	0.0071 ppm	0.3932 ppm	0.0032 ppm	15.0180 ppm
Concentration RSD	10.7 %	4.2 %	2.9 %	3.0 %	4.2 %	3.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0901 ppm	0.1240 ppm	0.0844 ppm	181.1516 ppm	9.7191 ppm	38.1305 ppm
Concentration per Run 1	0.0006 ppm	0.0903 ppm	0.1239 ppm	0.0843 ppm	190.7783 ppm	9.8723 ppm	38.1093 ppm
Concentration per Run 2	0.0007 ppm	0.0902 ppm	0.1241 ppm	0.0844 ppm	178.5751 ppm	9.6443 ppm	38.2733 ppm
Concentration per Run 3	0.0007 ppm	0.0899 ppm	0.1241 ppm	0.0845 ppm	174.1013 ppm	9.6408 ppm	38.0087 ppm
Concentration RSD	7.6 %	0.2 %	0.1 %	0.1 %	4.8 %	1.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4122 ppm	0.0016 ppm	1.2833 ppm	0.1314 ppm	0.1023 ppm	-0.0007 ppm	0.0035 ppm
Concentration per Run 1	1.4798 ppm	0.0017 ppm	1.3387 ppm	0.1314 ppm	0.1026 ppm	-0.0002 ppm	0.0044 ppm
Concentration per Run 2	1.3922 ppm	0.0017 ppm	1.2629 ppm	0.1315 ppm	0.1029 ppm	0.0006 ppm	0.0033 ppm
Concentration per Run 3	1.3645 ppm	0.0015 ppm	1.2481 ppm	0.1312 ppm	0.1015 ppm	-0.0024 ppm	0.0029 ppm
Concentration RSD	4.3 %	6.7 %	3.8 %	0.1 %	0.7 %	240.5 %	22.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5442 ppm	0.0032 ppm	0.0646 ppm	4.0605 ppm	0.0013 ppm	0.1704 ppm	0.5220 ppm
Concentration per Run 1	2.5703 ppm	0.0031 ppm	0.0676 ppm	4.0634 ppm	0.0002 ppm	0.1706 ppm	0.5230 ppm
Concentration per Run 2	2.5367 ppm	0.0031 ppm	0.0636 ppm	4.0625 ppm	0.0015 ppm	0.1706 ppm	0.5221 ppm
Concentration per Run 3	2.5257 ppm	0.0034 ppm	0.0625 ppm	4.0557 ppm	0.0021 ppm	0.1700 ppm	0.5207 ppm
Concentration RSD	0.9 %	6.1 %	4.2 %	0.1 %	79.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	141.0013 %	131.3752 %	132.2496 %	88.8360 %	96.8279 %	102.1644 %	0.1550 ppm
Concentration per Run 1	138.9588 %	131.2590 %	132.4885 %	85.0586 %	96.9629 %	102.0520 %	0.1624 ppm
Concentration per Run 2	141.9069 %	131.2959 %	132.1548 %	89.8448 %	96.6696 %	102.0235 %	0.1518 ppm
Concentration per Run 3	142.1382 %	131.5707 %	132.1056 %	91.6045 %	96.8512 %	102.4176 %	0.1509 ppm
Concentration RSD	1.3 %	0.1 %	0.2 %	3.8 %	0.2 %	0.2 %	4.1 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-11d2 WG1936224
Analysis started at: 6/20/2024 12:49:01 AM
Rack: 2
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	66.2669 ppm	0.0809 ppm	0.0267 ppm	1.2888 ppm	0.0032 ppm	188.9926 ppm
Concentration per Run 1	0.0004 ppm	69.0442 ppm	0.0803 ppm	0.0273 ppm	1.3413 ppm	0.0034 ppm	191.5185 ppm
Concentration per Run 2	0.0001 ppm	65.3603 ppm	0.0819 ppm	0.0264 ppm	1.2725 ppm	0.0032 ppm	187.8530 ppm
Concentration per Run 3	0.0004 ppm	64.3963 ppm	0.0804 ppm	0.0263 ppm	1.2526 ppm	0.0031 ppm	187.6062 ppm
Concentration RSD	58.4 %	3.7 %	1.1 %	2.2 %	3.6 %	4.1 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0034 ppm	0.0766 ppm	0.1640 ppm	0.8962 ppm	181.8280 ppm	9.3358 ppm	114.1476 ppm
Concentration per Run 1	0.0032 ppm	0.0767 ppm	0.1631 ppm	0.8974 ppm	192.8054 ppm	9.3924 ppm	114.6138 ppm
Concentration per Run 2	0.0035 ppm	0.0766 ppm	0.1652 ppm	0.8946 ppm	177.1815 ppm	9.3196 ppm	114.0878 ppm
Concentration per Run 3	0.0034 ppm	0.0766 ppm	0.1638 ppm	0.8967 ppm	175.4970 ppm	9.2955 ppm	113.7414 ppm
Concentration RSD	3.6 %	0.1 %	0.7 %	0.2 %	5.2 %	0.5 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.6661 ppm	0.0077 ppm	1.3586 ppm	0.1165 ppm	2.5037 ppm	0.0729 ppm	0.0181 ppm
Concentration per Run 1	3.8206 ppm	0.0078 ppm	1.4148 ppm	0.1164 ppm	2.5075 ppm	0.0723 ppm	0.0169 ppm
Concentration per Run 2	3.6163 ppm	0.0075 ppm	1.3422 ppm	0.1166 ppm	2.5010 ppm	0.0727 ppm	0.0196 ppm
Concentration per Run 3	3.5615 ppm	0.0077 ppm	1.3186 ppm	0.1164 ppm	2.5026 ppm	0.0736 ppm	0.0176 ppm
Concentration RSD	3.7 %	1.7 %	3.7 %	0.1 %	0.1 %	0.9 %	7.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5377 ppm	0.2544 ppm	0.2448 ppm	2.9350 ppm	0.0005 ppm	0.1552 ppm	2.1369 ppm
Concentration per Run 1	2.5551 ppm	0.2542 ppm	0.2545 ppm	2.9327 ppm	0.0005 ppm	0.1546 ppm	2.1418 ppm
Concentration per Run 2	2.5368 ppm	0.2543 ppm	0.2417 ppm	2.9357 ppm	0.0004 ppm	0.1555 ppm	2.1364 ppm
Concentration per Run 3	2.5211 ppm	0.2547 ppm	0.2384 ppm	2.9365 ppm	0.0008 ppm	0.1554 ppm	2.1325 ppm
Concentration RSD	0.7 %	0.1 %	3.5 %	0.1 %	36.0 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	131.2218 %	116.8984 %	115.1946 %	86.7792 %	90.1968 %	95.1278 %	0.1113 ppm
Concentration per Run 1	130.3554 %	116.9380 %	115.1544 %	83.4058 %	90.0773 %	95.2001 %	0.1147 ppm
Concentration per Run 2	131.7069 %	116.8468 %	115.3455 %	87.9375 %	90.4143 %	95.1600 %	0.1102 ppm
Concentration per Run 3	131.6032 %	116.9103 %	115.0839 %	88.9942 %	90.0989 %	95.0233 %	0.1089 ppm
Concentration RSD	0.6 %	0.0 %	0.1 %	3.4 %	0.2 %	0.1 %	2.8 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-12d2 WG1936224
Analysis started at: 6/20/2024 12:55:48 AM
Rack: 2
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0015 ppm	114.3657 ppm	0.0320 ppm	0.0031 ppm	0.5313 ppm	0.0060 ppm	177.5689 ppm
Concentration per Run 1	-0.0013 ppm	121.5181 ppm	0.0318 ppm	0.0027 ppm	0.5645 ppm	0.0063 ppm	182.4823 ppm
Concentration per Run 2	-0.0015 ppm	111.7942 ppm	0.0318 ppm	0.0033 ppm	0.5194 ppm	0.0059 ppm	175.4506 ppm
Concentration per Run 3	-0.0017 ppm	109.7848 ppm	0.0325 ppm	0.0031 ppm	0.5100 ppm	0.0057 ppm	174.7739 ppm
Concentration RSD	11.4 %	5.5 %	1.1 %	9.4 %	5.5 %	5.0 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0020 ppm	0.1530 ppm	0.1384 ppm	0.2860 ppm	287.1798 ppm	10.4095 ppm	149.3672 ppm
Concentration per Run 1	0.0019 ppm	0.1525 ppm	0.1388 ppm	0.2854 ppm	304.5924 ppm	10.6299 ppm	148.3465 ppm
Concentration per Run 2	0.0020 ppm	0.1535 ppm	0.1381 ppm	0.2867 ppm	280.8470 ppm	10.2844 ppm	150.3563 ppm
Concentration per Run 3	0.0020 ppm	0.1531 ppm	0.1383 ppm	0.2858 ppm	276.1001 ppm	10.3143 ppm	149.3989 ppm
Concentration RSD	3.4 %	0.3 %	0.3 %	0.2 %	5.3 %	1.8 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	7.6963 ppm	0.0061 ppm	0.7429 ppm	0.2671 ppm	0.0933 ppm	0.0005 ppm	0.0062 ppm
Concentration per Run 1	8.1714 ppm	0.0061 ppm	0.7864 ppm	0.2669 ppm	0.0931 ppm	0.0015 ppm	0.0085 ppm
Concentration per Run 2	7.5226 ppm	0.0060 ppm	0.7247 ppm	0.2670 ppm	0.0934 ppm	0.0001 ppm	0.0050 ppm
Concentration per Run 3	7.3950 ppm	0.0062 ppm	0.7177 ppm	0.2675 ppm	0.0933 ppm	0.0000 ppm	0.0052 ppm
Concentration RSD	5.4 %	1.5 %	5.1 %	0.1 %	0.2 %	153.9 %	31.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.7294 ppm	0.0044 ppm	0.2181 ppm	2.3187 ppm	-0.0022 ppm	0.1955 ppm	0.8816 ppm
Concentration per Run 1	3.7385 ppm	0.0042 ppm	0.2316 ppm	2.3235 ppm	-0.0006 ppm	0.1956 ppm	0.8807 ppm
Concentration per Run 2	3.7405 ppm	0.0041 ppm	0.2132 ppm	2.3182 ppm	-0.0028 ppm	0.1961 ppm	0.8813 ppm
Concentration per Run 3	3.7093 ppm	0.0051 ppm	0.2096 ppm	2.3144 ppm	-0.0032 ppm	0.1949 ppm	0.8828 ppm
Concentration RSD	0.5 %	11.8 %	5.4 %	0.2 %	62.7 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	151.1149 %	135.9526 %	134.6240 %	86.4992 %	89.8061 %	95.6342 %	0.2005 ppm
Concentration per Run 1	148.7373 %	135.7696 %	134.7149 %	81.9239 %	89.9275 %	95.5735 %	0.2123 ppm
Concentration per Run 2	152.5607 %	135.9786 %	134.5714 %	88.0727 %	89.8219 %	95.5658 %	0.1961 ppm
Concentration per Run 3	152.0466 %	136.1096 %	134.5858 %	89.5008 %	89.6690 %	95.7633 %	0.1931 ppm
Concentration RSD	1.4 %	0.1 %	0.1 %	4.7 %	0.1 %	0.1 %	5.1 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-13d2 WG1936224
Analysis started at: 6/20/2024 1:02:36 AM
Rack: 2
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	60.1281 ppm	0.0308 ppm	0.0329 ppm	0.5267 ppm	0.0024 ppm	141.7528 ppm
Concentration per Run 1	0.0009 ppm	63.0613 ppm	0.0306 ppm	0.0333 ppm	0.5521 ppm	0.0026 ppm	144.6724 ppm
Concentration per Run 2	0.0007 ppm	59.1441 ppm	0.0313 ppm	0.0325 ppm	0.5178 ppm	0.0024 ppm	140.5858 ppm
Concentration per Run 3	0.0006 ppm	58.1788 ppm	0.0306 ppm	0.0329 ppm	0.5103 ppm	0.0023 ppm	140.0002 ppm
Concentration RSD	21.7 %	4.3 %	1.2 %	1.2 %	4.2 %	5.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0025 ppm	0.0848 ppm	0.1064 ppm	0.9913 ppm	195.2518 ppm	7.1255 ppm	102.1979 ppm
Concentration per Run 1	0.0025 ppm	0.0848 ppm	0.1063 ppm	0.9916 ppm	205.7491 ppm	7.2631 ppm	101.9065 ppm
Concentration per Run 2	0.0026 ppm	0.0846 ppm	0.1072 ppm	0.9910 ppm	190.0769 ppm	7.0436 ppm	102.2514 ppm
Concentration per Run 3	0.0025 ppm	0.0850 ppm	0.1058 ppm	0.9914 ppm	189.9293 ppm	7.0697 ppm	102.4357 ppm
Concentration RSD	2.8 %	0.2 %	0.7 %	0.0 %	4.7 %	1.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.8916 ppm	0.0099 ppm	0.9471 ppm	0.1149 ppm	2.0183 ppm	0.0409 ppm	0.0077 ppm
Concentration per Run 1	6.1794 ppm	0.0097 ppm	0.9895 ppm	0.1152 ppm	2.0224 ppm	0.0409 ppm	0.0079 ppm
Concentration per Run 2	5.8085 ppm	0.0100 ppm	0.9327 ppm	0.1146 ppm	2.0121 ppm	0.0407 ppm	0.0084 ppm
Concentration per Run 3	5.6868 ppm	0.0101 ppm	0.9192 ppm	0.1148 ppm	2.0203 ppm	0.0410 ppm	0.0069 ppm
Concentration RSD	4.4 %	1.8 %	3.9 %	0.3 %	0.3 %	0.4 %	9.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7543 ppm	0.5552 ppm	0.1896 ppm	2.5426 ppm	-0.0012 ppm	0.1455 ppm	1.1641 ppm
Concentration per Run 1	2.7611 ppm	0.5549 ppm	0.1986 ppm	2.5435 ppm	-0.0018 ppm	0.1453 ppm	1.1678 ppm
Concentration per Run 2	2.7544 ppm	0.5530 ppm	0.1864 ppm	2.5412 ppm	-0.0012 ppm	0.1459 ppm	1.1598 ppm
Concentration per Run 3	2.7473 ppm	0.5576 ppm	0.1839 ppm	2.5430 ppm	-0.0007 ppm	0.1454 ppm	1.1647 ppm
Concentration RSD	0.2 %	0.4 %	4.1 %	0.0 %	45.7 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	133.3680 %	118.8357 %	117.0049 %	87.4624 %	90.1480 %	95.8790 %	0.0792 ppm
Concentration per Run 1	131.2368 %	119.1271 %	117.0407 %	83.6422 %	89.9887 %	95.9632 %	0.0828 ppm
Concentration per Run 2	134.3592 %	118.8670 %	116.9367 %	88.5663 %	90.5007 %	96.0117 %	0.0776 ppm
Concentration per Run 3	134.5079 %	118.5131 %	117.0373 %	90.1786 %	89.9547 %	95.6620 %	0.0772 ppm
Concentration RSD	1.4 %	0.3 %	0.1 %	3.9 %	0.3 %	0.2 %	3.9 %

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-14d2 WG1936224
Analysis started at: 6/20/2024 1:09:16 AM
Rack: 2
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0014 ppm	91.6362 ppm	0.0458 ppm	0.0053 ppm	0.6054 ppm	0.0024 ppm	230.7252 ppm
Concentration per Run 1	-0.0016 ppm	94.5919 ppm	0.0470 ppm	0.0055 ppm	0.6243 ppm	0.0025 ppm	233.8997 ppm
Concentration per Run 2	-0.0013 ppm	90.5635 ppm	0.0449 ppm	0.0049 ppm	0.5986 ppm	0.0024 ppm	230.4687 ppm
Concentration per Run 3	-0.0014 ppm	89.7532 ppm	0.0455 ppm	0.0054 ppm	0.5935 ppm	0.0024 ppm	227.8071 ppm
Concentration RSD	8.2 %	2.8 %	2.3 %	6.1 %	2.7 %	3.1 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0015 ppm	0.1493 ppm	0.1397 ppm	0.1956 ppm	**243.6352 ppm**	22.4233 ppm	221.6224 ppm
Concentration per Run 1	0.0015 ppm	0.1492 ppm	0.1395 ppm	0.1957 ppm	253.3586 ppm	22.5143 ppm	222.3345 ppm
Concentration per Run 2	0.0016 ppm	0.1494 ppm	0.1400 ppm	0.1948 ppm	238.5047 ppm	22.4307 ppm	221.5300 ppm
Concentration per Run 3	0.0015 ppm	0.1492 ppm	0.1396 ppm	0.1962 ppm	239.0421 ppm	22.3248 ppm	221.0027 ppm
Concentration RSD	5.8 %	0.1 %	0.2 %	0.4 %	3.5 %	0.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	7.1191 ppm	0.0140 ppm	1.0086 ppm	0.1685 ppm	0.0767 ppm	0.0002 ppm	0.0036 ppm
Concentration per Run 1	7.3505 ppm	0.0140 ppm	1.0346 ppm	0.1684 ppm	0.0764 ppm	0.0004 ppm	0.0044 ppm
Concentration per Run 2	7.0504 ppm	0.0138 ppm	0.9989 ppm	0.1681 ppm	0.0763 ppm	-0.0002 ppm	0.0043 ppm
Concentration per Run 3	6.9564 ppm	0.0141 ppm	0.9924 ppm	0.1690 ppm	0.0774 ppm	0.0006 ppm	0.0020 ppm
Concentration RSD	2.9 %	1.0 %	2.3 %	0.3 %	0.8 %	164.3 %	38.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0995 ppm	0.0066 ppm	0.1964 ppm	5.2761 ppm	0.0011 ppm	0.1946 ppm	0.4921 ppm
Concentration per Run 1	5.1176 ppm	0.0063 ppm	0.2024 ppm	5.2669 ppm	0.0007 ppm	0.1943 ppm	0.4915 ppm
Concentration per Run 2	5.1000 ppm	0.0072 ppm	0.1941 ppm	5.2900 ppm	0.0008 ppm	0.1948 ppm	0.4916 ppm
Concentration per Run 3	5.0810 ppm	0.0063 ppm	0.1926 ppm	5.2713 ppm	0.0019 ppm	0.1947 ppm	0.4932 ppm
Concentration RSD	0.4 %	8.2 %	2.7 %	0.2 %	60.7 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	142.5938 %	126.3663 %	124.6672 %	86.5711 %	88.3019 %	93.6103 %	0.0903 ppm
Concentration per Run 1	142.0542 %	126.4758 %	124.7893 %	83.8852 %	88.3851 %	93.6099 %	0.0917 ppm
Concentration per Run 2	142.5080 %	126.1613 %	124.6348 %	87.3883 %	88.3539 %	93.5805 %	0.0895 ppm
Concentration per Run 3	143.2194 %	126.4618 %	124.5776 %	88.4400 %	88.1669 %	93.6405 %	0.0896 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	2.8 %	0.1 %	0.0 %	1.4 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: EL2433379-15d2 WG1936224
Analysis started at: 6/20/2024 1:16:05 AM
Rack: 2
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	100.1961 ppm	0.0257 ppm	0.0122 ppm	0.4279 ppm	0.0038 ppm	25.2087 ppm
Concentration per Run 1	0.0004 ppm	105.3044 ppm	0.0249 ppm	0.0121 ppm	0.4487 ppm	0.0039 ppm	25.6768 ppm
Concentration per Run 2	0.0004 ppm	98.5648 ppm	0.0272 ppm	0.0123 ppm	0.4214 ppm	0.0038 ppm	24.9685 ppm
Concentration per Run 3	0.0005 ppm	96.7192 ppm	0.0250 ppm	0.0122 ppm	0.4136 ppm	0.0037 ppm	24.9808 ppm
Concentration RSD	15.4 %	4.5 %	5.1 %	0.9 %	4.3 %	2.7 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0024 ppm	0.0961 ppm	0.1498 ppm	0.0695 ppm	210.6499 ppm	6.4782 ppm	37.8757 ppm
Concentration per Run 1	0.0023 ppm	0.0963 ppm	0.1499 ppm	0.0695 ppm	223.2136 ppm	6.5699 ppm	37.8937 ppm
Concentration per Run 2	0.0025 ppm	0.0963 ppm	0.1497 ppm	0.0695 ppm	206.2194 ppm	6.4305 ppm	37.9019 ppm
Concentration per Run 3	0.0025 ppm	0.0957 ppm	0.1497 ppm	0.0694 ppm	202.5167 ppm	6.4342 ppm	37.8316 ppm
Concentration RSD	2.8 %	0.3 %	0.1 %	0.1 %	5.2 %	1.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	22.0223 ppm	0.0107 ppm	0.3775 ppm	0.1333 ppm	0.0856 ppm	-0.0003 ppm	0.0074 ppm
Concentration per Run 1	23.1297 ppm	0.0106 ppm	0.3938 ppm	0.1333 ppm	0.0853 ppm	0.0004 ppm	0.0068 ppm
Concentration per Run 2	21.6533 ppm	0.0108 ppm	0.3707 ppm	0.1336 ppm	0.0858 ppm	-0.0002 ppm	0.0084 ppm
Concentration per Run 3	21.2841 ppm	0.0106 ppm	0.3679 ppm	0.1332 ppm	0.0858 ppm	-0.0012 ppm	0.0069 ppm
Concentration RSD	4.4 %	1.4 %	3.8 %	0.2 %	0.3 %	264.4 %	12.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7452 ppm	0.0038 ppm	0.0706 ppm	2.1298 ppm	-0.0010 ppm	0.1906 ppm	0.5455 ppm
Concentration per Run 1	2.7507 ppm	0.0038 ppm	0.0739 ppm	2.1320 ppm	-0.0013 ppm	0.1910 ppm	0.5462 ppm
Concentration per Run 2	2.7449 ppm	0.0039 ppm	0.0696 ppm	2.1289 ppm	-0.0002 ppm	0.1900 ppm	0.5467 ppm
Concentration per Run 3	2.7400 ppm	0.0036 ppm	0.0683 ppm	2.1285 ppm	-0.0015 ppm	0.1909 ppm	0.5437 ppm
Concentration RSD	0.2 %	4.3 %	4.2 %	0.1 %	72.3 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	145.2859 %	132.3379 %	131.8128 %	88.9525 %	92.8210 %	99.7122 %	0.1478 ppm
Concentration per Run 1	142.9556 %	132.2161 %	131.8642 %	84.7746 %	92.7586 %	99.6615 %	0.1539 ppm
Concentration per Run 2	146.2928 %	132.4145 %	131.7183 %	90.1771 %	92.6726 %	99.8194 %	0.1463 ppm
Concentration per Run 3	146.6092 %	132.3832 %	131.8558 %	91.9058 %	93.0317 %	99.6558 %	0.1432 ppm
Concentration RSD	1.4 %	0.1 %	0.1 %	4.2 %	0.2 %	0.1 %	3.7 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-16d2 WG1936224
Analysis started at: 6/20/2024 1:22:38 AM
Rack: 2
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0014 ppm	94.2355 ppm	0.0360 ppm	0.0062 ppm	0.2650 ppm	0.0031 ppm	10.7005 ppm
Concentration per Run 1	-0.0011 ppm	98.7698 ppm	0.0357 ppm	0.0062 ppm	0.2773 ppm	0.0032 ppm	10.9185 ppm
Concentration per Run 2	-0.0016 ppm	92.8062 ppm	0.0358 ppm	0.0062 ppm	0.2612 ppm	0.0031 ppm	10.5933 ppm
Concentration per Run 3	-0.0016 ppm	91.1306 ppm	0.0365 ppm	0.0061 ppm	0.2564 ppm	0.0030 ppm	10.5897 ppm
Concentration RSD	18.6 %	4.3 %	1.3 %	1.1 %	4.1 %	2.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.1033 ppm	0.1111 ppm	0.1487 ppm	**252.3000 ppm**	6.9528 ppm	46.3069 ppm
Concentration per Run 1	0.0007 ppm	0.1033 ppm	0.1110 ppm	0.1485 ppm	269.2163 ppm	7.0508 ppm	46.3178 ppm
Concentration per Run 2	0.0010 ppm	0.1031 ppm	0.1109 ppm	0.1491 ppm	246.6480 ppm	6.9189 ppm	46.2586 ppm
Concentration per Run 3	0.0010 ppm	0.1034 ppm	0.1116 ppm	0.1486 ppm	241.0358 ppm	6.8888 ppm	46.3442 ppm
Concentration RSD	17.4 %	0.2 %	0.3 %	0.2 %	5.9 %	1.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.4244 ppm	0.0038 ppm	0.6156 ppm	0.1854 ppm	0.0752 ppm	-0.0005 ppm	0.0064 ppm
Concentration per Run 1	2.5450 ppm	0.0037 ppm	0.6431 ppm	0.1853 ppm	0.0750 ppm	-0.0016 ppm	0.0072 ppm
Concentration per Run 2	2.3885 ppm	0.0037 ppm	0.6126 ppm	0.1853 ppm	0.0751 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	2.3397 ppm	0.0039 ppm	0.5913 ppm	0.1855 ppm	0.0755 ppm	0.0000 ppm	0.0058 ppm
Concentration RSD	4.4 %	3.7 %	4.2 %	0.1 %	0.3 %	170.6 %	11.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.9111 ppm	0.0033 ppm	0.0548 ppm	2.3373 ppm	-0.0012 ppm	0.1552 ppm	0.5734 ppm
Concentration per Run 1	3.9154 ppm	0.0035 ppm	0.0573 ppm	2.3371 ppm	-0.0010 ppm	0.1553 ppm	0.5740 ppm
Concentration per Run 2	3.9114 ppm	0.0033 ppm	0.0539 ppm	2.3349 ppm	-0.0012 ppm	0.1551 ppm	0.5727 ppm
Concentration per Run 3	3.9063 ppm	0.0031 ppm	0.0531 ppm	2.3398 ppm	-0.0013 ppm	0.1552 ppm	0.5736 ppm
Concentration RSD	0.1 %	6.2 %	4.0 %	0.1 %	15.9 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	143.4621 %	133.0937 %	134.3262 %	89.0048 %	94.8333 %	101.7838 %	0.1875 ppm
Concentration per Run 1	141.4746 %	133.1846 %	134.2496 %	85.0711 %	94.7938 %	101.7883 %	0.1956 ppm
Concentration per Run 2	144.6732 %	133.1253 %	134.3441 %	90.1805 %	94.8169 %	101.8240 %	0.1854 ppm
Concentration per Run 3	144.2386 %	132.9711 %	134.3848 %	91.7628 %	94.8893 %	101.7393 %	0.1816 ppm
Concentration RSD	1.2 %	0.1 %	0.1 %	3.9 %	0.1 %	0.0 %	3.9 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: L2433379-27d2 WG1936224
Analysis started at: 6/20/2024 1:29:12 AM
Rack: 2
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	76.0066 ppm	0.0329 ppm	0.0051 ppm	0.5553 ppm	0.0024 ppm	272.9152 ppm
Concentration per Run 1	-0.0006 ppm	78.7198 ppm	0.0327 ppm	0.0049 ppm	0.5744 ppm	0.0024 ppm	274.7392 ppm
Concentration per Run 2	-0.0007 ppm	75.0879 ppm	0.0324 ppm	0.0052 ppm	0.5493 ppm	0.0023 ppm	271.3271 ppm
Concentration per Run 3	-0.0005 ppm	74.2121 ppm	0.0334 ppm	0.0052 ppm	0.5421 ppm	0.0024 ppm	272.6792 ppm
Concentration RSD	21.2 %	3.1 %	1.5 %	2.5 %	3.1 %	1.9 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0013 ppm	0.0816 ppm	0.1080 ppm	0.1400 ppm	186.5490 ppm	14.7201 ppm	258.6944 ppm
Concentration per Run 1	0.0012 ppm	0.0813 ppm	0.1080 ppm	0.1398 ppm	194.8030 ppm	14.7760 ppm	258.9356 ppm
Concentration per Run 2	0.0014 ppm	0.0817 ppm	0.1080 ppm	0.1400 ppm	182.8583 ppm	14.7351 ppm	258.8108 ppm
Concentration per Run 3	0.0014 ppm	0.0817 ppm	0.1081 ppm	0.1401 ppm	181.9856 ppm	14.6491 ppm	258.3368 ppm
Concentration RSD	7.6 %	0.2 %	0.1 %	0.1 %	3.8 %	0.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	8.2858 ppm	0.0075 ppm	0.8232 ppm	0.1428 ppm	0.0692 ppm	0.0016 ppm	0.0014 ppm
Concentration per Run 1	8.5761 ppm	0.0073 ppm	0.8546 ppm	0.1428 ppm	0.0693 ppm	0.0022 ppm	0.0025 ppm
Concentration per Run 2	8.1823 ppm	0.0076 ppm	0.8149 ppm	0.1429 ppm	0.0689 ppm	0.0010 ppm	-0.0010 ppm
Concentration per Run 3	8.0989 ppm	0.0077 ppm	0.8001 ppm	0.1427 ppm	0.0695 ppm	0.0017 ppm	0.0027 ppm
Concentration RSD	3.1 %	2.2 %	3.4 %	0.1 %	0.4 %	36.2 %	150.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.0484 ppm	0.0053 ppm	0.2639 ppm	3.7835 ppm	0.0008 ppm	0.1628 ppm	0.4598 ppm
Concentration per Run 1	3.0738 ppm	0.0049 ppm	0.2732 ppm	3.7873 ppm	0.0012 ppm	0.1632 ppm	0.4598 ppm
Concentration per Run 2	3.0450 ppm	0.0050 ppm	0.2608 ppm	3.7780 ppm	0.0010 ppm	0.1625 ppm	0.4603 ppm
Concentration per Run 3	3.0262 ppm	0.0059 ppm	0.2579 ppm	3.7853 ppm	0.0001 ppm	0.1626 ppm	0.4593 ppm
Concentration RSD	0.8 %	10.1 %	3.1 %	0.1 %	74.8 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	132.8608 %	117.9973 %	117.5169 %	85.7899 %	88.7899 %	92.7582 %	0.0721 ppm
Concentration per Run 1	132.7223 %	117.7693 %	117.4743 %	83.2649 %	88.9643 %	92.6799 %	0.0746 ppm
Concentration per Run 2	133.0804 %	118.1708 %	117.3794 %	86.8189 %	88.5902 %	92.8304 %	0.0723 ppm
Concentration per Run 3	132.7797 %	118.0519 %	117.6970 %	87.2860 %	88.8153 %	92.7644 %	0.0694 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	2.6 %	0.2 %	0.1 %	3.6 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/20/2024 1:36:04 AM
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5160 ppm	0.4730 ppm	0.4637 ppm	0.4563 ppm	0.4990 ppm	0.5233 ppm	0.4720 ppm
Concentration per Run 1	0.5165 ppm	0.5059 ppm	0.4623 ppm	0.4561 ppm	0.5320 ppm	0.5598 ppm	0.5014 ppm
Concentration per Run 2	0.5155 ppm	0.4616 ppm	0.4652 ppm	0.4553 ppm	0.4896 ppm	0.5130 ppm	0.4559 ppm
Concentration per Run 3	0.5159 ppm	0.4515 ppm	0.4635 ppm	0.4574 ppm	0.4753 ppm	0.4971 ppm	0.4586 ppm
Recovery Percentage 1	103.194 %	94.600 %	92.732 %	91.256 %	99.797 %	104.658 %	94.394 %
Concentration RSD	0.1 %	6.1 %	0.3 %	0.2 %	5.9 %	6.2 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4820 ppm	0.4828 ppm	0.4714 ppm	0.4499 ppm	0.5629 ppm	4.9606 ppm	0.4800 ppm
Concentration per Run 1	0.4824 ppm	0.4830 ppm	0.4721 ppm	0.4509 ppm	0.6040 ppm	5.2723 ppm	0.4811 ppm
Concentration per Run 2	0.4818 ppm	0.4821 ppm	0.4703 ppm	0.4493 ppm	0.5526 ppm	4.8401 ppm	0.4788 ppm
Concentration per Run 3	0.4819 ppm	0.4832 ppm	0.4718 ppm	0.4495 ppm	0.5320 ppm	4.7695 ppm	0.4800 ppm
Recovery Percentage 1	96.407 %	96.557 %	94.279 %	89.978 %	112.572 %	99.213 %	95.993 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	6.6 %	5.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5602 ppm	0.4610 ppm	10.6075 ppm	0.4818 ppm	0.4801 ppm	0.4533 ppm	0.4510 ppm
Concentration per Run 1	0.6014 ppm	0.4607 ppm	11.2975 ppm	0.4821 ppm	0.4806 ppm	0.4536 ppm	0.4530 ppm
Concentration per Run 2	0.5482 ppm	0.4608 ppm	10.4128 ppm	0.4812 ppm	0.4795 ppm	0.4537 ppm	0.4496 ppm
Concentration per Run 3	0.5309 ppm	0.4616 ppm	10.1121 ppm	0.4821 ppm	0.4801 ppm	0.4525 ppm	0.4502 ppm
Recovery Percentage 1	112.034 %	92.208 %	106.075 %	96.358 %	96.015 %	90.652 %	90.190 %
Concentration RSD	6.6 %	0.1 %	5.8 %	0.1 %	0.1 %	0.1 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9355 ppm	0.4795 ppm	0.5355 ppm	0.4968 ppm	0.4793 ppm	0.5055 ppm	0.4916 ppm
Concentration per Run 1	4.9302 ppm	0.4806 ppm	0.5709 ppm	0.4972 ppm	0.4804 ppm	0.5063 ppm	0.4921 ppm
Concentration per Run 2	4.9321 ppm	0.4786 ppm	0.5254 ppm	0.4960 ppm	0.4776 ppm	0.5050 ppm	0.4912 ppm
Concentration per Run 3	4.9441 ppm	0.4792 ppm	0.5103 ppm	0.4973 ppm	0.4801 ppm	0.5052 ppm	0.4914 ppm
Recovery Percentage 1	94.009 %	95.894 %	107.108 %	99.366 %	95.867 %	101.107 %	98.319 %
Concentration RSD	0.2 %	0.2 %	5.9 %	0.1 %	0.3 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	108.0845 %	105.4766 %	106.8920 %	83.4885 %	103.6164 %	102.1950 %	0.5229 ppm
Concentration per Run 1	102.4742 %	105.3407 %	106.9127 %	78.1964 %	103.6045 %	101.9851 %	0.5582 ppm
Concentration per Run 2	110.3919 %	105.5650 %	106.9273 %	84.6579 %	103.6882 %	102.2583 %	0.5134 ppm
Concentration per Run 3	111.3875 %	105.5243 %	106.8360 %	87.6112 %	103.5566 %	102.3416 %	0.4971 ppm
Recovery Percentage 1							104.576 %
Concentration RSD	4.5 %	0.1 %	0.0 %	5.8 %	0.1 %	0.2 %	6.0 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/20/2024 1:42:26 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0037 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 1	0.0002 ppm	0.0050 ppm	0.0020 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 2	-0.0003 ppm	0.0033 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 3	-0.0003 ppm	0.0029 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm
Recovery Percentage 1	-1.959 %	0.001 %	15.661 %	0.500 %	0.248 %	0.100 %	0.000 %
Concentration RSD	207.9 %	29.9 %	150.6 %	143.7 %	258.2 %	254.0 %	18.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm	0.0036 ppm	0.0068 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0049 ppm	-0.0123 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0002 ppm	0.0019 ppm	0.0132 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0041 ppm	0.0195 ppm	-0.0010 ppm
Recovery Percentage 1	-0.254 %	0.809 %	3.202 %	-3.127 %	0.002 %	0.272 %	0.000 %
Concentration RSD	82.6 %	48.4 %	32.8 %	20.4 %	42.0 %	247.9 %	156.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0003 ppm	-0.0206 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	-0.0199 ppm	-0.0001 ppm	0.0004 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0206 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	-0.0214 ppm	0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	0.910 %	0.564 %	-1.031 %	-0.001 %	-1.291 %	0.703 %	1.916 %
Concentration RSD	204.5 %	36.1 %	3.8 %	36,558.7 %	337.8 %	211.2 %	296.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0040 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0042 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0039 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0037 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0001 ppm	0.0004 ppm
Recovery Percentage 1	0.790 %	-0.293 %	0.151 %	1.583 %	5.194 %	-1.550 %	7.773 %
Concentration RSD	5.8 %	118.2 %	310.1 %	102.3 %	26.9 %	164.0 %	11.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	108.5734 %	107.8504 %	107.7369 %	77.7215 %	106.8621 %	101.7271 %	0.0008 ppm
Concentration per Run 1	103.5646 %	107.7139 %	107.8545 %	71.5244 %	106.7896 %	101.4424 %	0.0003 ppm
Concentration per Run 2	111.4819 %	107.9777 %	107.7407 %	79.3382 %	106.9538 %	101.7942 %	0.0008 ppm
Concentration per Run 3	110.6736 %	107.8597 %	107.6156 %	82.3019 %	106.8429 %	101.9447 %	0.0014 ppm
Recovery Percentage 1							8.392 %
Concentration RSD	4.0 %	0.1 %	0.1 %	7.2 %	0.1 %	0.3 %	69.4 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCV
Analysis started at: 6/20/2024 1:49:08 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5111 ppm	0.4727 ppm	0.4664 ppm	0.4527 ppm	0.5004 ppm	0.5273 ppm	0.4682 ppm
Concentration per Run 1	0.5117 ppm	0.5038 ppm	0.4668 ppm	0.4507 ppm	0.5341 ppm	0.5626 ppm	0.4981 ppm
Concentration per Run 2	0.5104 ppm	0.4670 ppm	0.4654 ppm	0.4545 ppm	0.4913 ppm	0.5184 ppm	0.4547 ppm
Concentration per Run 3	0.5113 ppm	0.4473 ppm	0.4669 ppm	0.4529 ppm	0.4759 ppm	0.5011 ppm	0.4517 ppm
Recovery Percentage 1	102.229 %	94.540 %	93.271 %	90.537 %	100.082 %	105.469 %	93.634 %
Concentration RSD	0.1 %	6.1 %	0.2 %	0.4 %	6.0 %	6.0 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4790 ppm	0.4807 ppm	0.4745 ppm	0.4494 ppm	0.5554 ppm	4.8979 ppm	0.4780 ppm
Concentration per Run 1	0.4784 ppm	0.4796 ppm	0.4754 ppm	0.4493 ppm	0.5909 ppm	5.1540 ppm	0.4778 ppm
Concentration per Run 2	0.4799 ppm	0.4822 ppm	0.4743 ppm	0.4491 ppm	0.5465 ppm	4.7866 ppm	0.4775 ppm
Concentration per Run 3	0.4787 ppm	0.4805 ppm	0.4738 ppm	0.4497 ppm	0.5289 ppm	4.7532 ppm	0.4786 ppm
Recovery Percentage 1	95.794 %	96.149 %	94.891 %	89.872 %	111.085 %	97.959 %	95.596 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.1 %	5.8 %	4.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5609 ppm	0.4573 ppm	10.6172 ppm	0.4782 ppm	0.4756 ppm	0.4478 ppm	0.4463 ppm
Concentration per Run 1	0.5974 ppm	0.4550 ppm	11.3169 ppm	0.4772 ppm	0.4749 ppm	0.4452 ppm	0.4440 ppm
Concentration per Run 2	0.5522 ppm	0.4590 ppm	10.4328 ppm	0.4801 ppm	0.4772 ppm	0.4492 ppm	0.4481 ppm
Concentration per Run 3	0.5330 ppm	0.4580 ppm	10.1018 ppm	0.4774 ppm	0.4746 ppm	0.4491 ppm	0.4469 ppm
Recovery Percentage 1	112.176 %	91.463 %	106.172 %	95.643 %	95.115 %	89.562 %	89.265 %
Concentration RSD	5.9 %	0.5 %	5.9 %	0.3 %	0.3 %	0.5 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3101 ppm	0.4649 ppm	0.5306 ppm	0.4940 ppm	0.4753 ppm	0.5039 ppm	0.4904 ppm
Concentration per Run 1	5.3035 ppm	0.4632 ppm	0.5656 ppm	0.4942 ppm	0.4747 ppm	0.5043 ppm	0.4899 ppm
Concentration per Run 2	5.3136 ppm	0.4660 ppm	0.5215 ppm	0.4936 ppm	0.4762 ppm	0.5038 ppm	0.4912 ppm
Concentration per Run 3	5.3132 ppm	0.4654 ppm	0.5046 ppm	0.4941 ppm	0.4749 ppm	0.5035 ppm	0.4901 ppm
Recovery Percentage 1	101.144 %	92.978 %	106.113 %	98.794 %	95.058 %	100.773 %	98.081 %
Concentration RSD	0.1 %	0.3 %	5.9 %	0.1 %	0.2 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	107.9313 %	106.0967 %	106.4898 %	82.6510 %	104.0317 %	102.1043 %	0.6663 ppm
Concentration per Run 1	103.0271 %	106.1623 %	106.5499 %	77.7797 %	104.4262 %	102.0161 %	0.7083 ppm
Concentration per Run 2	110.1807 %	105.8601 %	106.3846 %	83.7019 %	103.6030 %	101.9528 %	0.6560 ppm
Concentration per Run 3	110.5861 %	106.2677 %	106.5348 %	86.4715 %	104.0657 %	102.3440 %	0.6345 ppm
Recovery Percentage 1							133.256 %
Concentration RSD	3.9 %	0.2 %	0.1 %	5.4 %	0.4 %	0.2 %	5.7 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: CCB
Analysis started at: 6/20/2024 1:55:26 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0012 ppm	0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	-0.0002 ppm	-0.0048 ppm	-0.0002 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 2	-0.0002 ppm	0.0064 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0003 ppm	0.0019 ppm	0.0015 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0032 ppm
Recovery Percentage 1	-2.963 %	0.000 %	14.045 %	0.729 %	1.383 %	-0.419 %	0.000 %
Concentration RSD	21.2 %	484.2 %	118.1 %	120.5 %	43.8 %	105.5 %	491.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0019 ppm	0.0079 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0026 ppm	0.0014 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0023 ppm	0.0080 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0009 ppm	0.0144 ppm	-0.0015 ppm
Recovery Percentage 1	-0.180 %	0.693 %	2.025 %	-3.905 %	0.001 %	0.317 %	0.000 %
Concentration RSD	98.6 %	55.1 %	57.1 %	3.6 %	46.3 %	81.9 %	89.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0243 ppm	0.0000 ppm	-0.0004 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0249 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0249 ppm	-0.0002 ppm	-0.0005 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0232 ppm	0.0002 ppm	-0.0005 ppm	0.0006 ppm	0.0011 ppm
Recovery Percentage 1	-0.022 %	0.503 %	-1.217 %	0.040 %	-4.107 %	1.451 %	5.893 %
Concentration RSD	1,612.9 %	52.0 %	4.0 %	1,767.9 %	25.7 %	25.8 %	79.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0032 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0027 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0037 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0013 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0033 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	-0.0002 ppm	0.0003 ppm
Recovery Percentage 1	0.646 %	-0.441 %	0.675 %	1.270 %	4.865 %	-1.106 %	7.669 %
Concentration RSD	16.3 %	91.9 %	118.5 %	74.4 %	40.1 %	103.3 %	16.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	108.1864 %	107.5399 %	107.7833 %	77.0160 %	106.8368 %	101.6441 %	0.0013 ppm
Concentration per Run 1	103.9980 %	107.3867 %	108.0130 %	71.4979 %	106.8249 %	101.2826 %	0.0024 ppm
Concentration per Run 2	110.2831 %	107.4583 %	107.8039 %	78.0173 %	106.7344 %	101.5960 %	0.0007 ppm
Concentration per Run 3	110.2782 %	107.7749 %	107.5331 %	81.5329 %	106.9510 %	102.0536 %	0.0007 ppm
Recovery Percentage 1							12.543 %
Concentration RSD	3.4 %	0.2 %	0.2 %	6.6 %	0.1 %	0.4 %	77.2 %

ICP DataTrace 6

6/20/2024 6:20:59 AM

LabBook: WG1936225_06192024T6B.imexp

Sample: LLOQ RL check
Analysis started at: 6/20/2024 2:02:08 AM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0074 ppm	0.1053 ppm	0.0058 ppm	0.0269 ppm	0.0109 ppm	0.0055 ppm	0.1047 ppm
Concentration per Run 1	0.0073 ppm	0.1166 ppm	0.0057 ppm	0.0269 ppm	0.0117 ppm	0.0061 ppm	0.1123 ppm
Concentration per Run 2	0.0073 ppm	0.1010 ppm	0.0066 ppm	0.0271 ppm	0.0107 ppm	0.0054 ppm	0.1029 ppm
Concentration per Run 3	0.0075 ppm	0.0982 ppm	0.0051 ppm	0.0268 ppm	0.0102 ppm	0.0052 ppm	0.0990 ppm
Recovery Percentage 1	105.257 %	105.255 %	116.492 %	89.821 %	108.818 %	110.844 %	104.722 %
Concentration RSD	1.6 %	9.4 %	13.0 %	0.6 %	6.9 %	8.5 %	6.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0039 ppm	0.0196 ppm	0.0103 ppm	0.0095 ppm	0.0718 ppm	2.5433 ppm	0.1036 ppm
Concentration per Run 1	0.0039 ppm	0.0195 ppm	0.0104 ppm	0.0095 ppm	0.0772 ppm	2.6803 ppm	0.1040 ppm
Concentration per Run 2	0.0040 ppm	0.0197 ppm	0.0103 ppm	0.0094 ppm	0.0711 ppm	2.4781 ppm	0.1039 ppm
Concentration per Run 3	0.0039 ppm	0.0195 ppm	0.0103 ppm	0.0095 ppm	0.0672 ppm	2.4716 ppm	0.1031 ppm
Recovery Percentage 1	98.074 %	97.829 %	103.199 %	94.960 %	143.688 %	101.733 %	103.645 %
Concentration RSD	0.7 %	0.5 %	0.5 %	0.7 %	7.0 %	4.7 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0131 ppm	0.0460 ppm	2.3220 ppm	0.0240 ppm	0.0094 ppm	0.0455 ppm	0.0096 ppm
Concentration per Run 1	0.0142 ppm	0.0460 ppm	2.4973 ppm	0.0239 ppm	0.0091 ppm	0.0452 ppm	0.0087 ppm
Concentration per Run 2	0.0129 ppm	0.0462 ppm	2.2828 ppm	0.0239 ppm	0.0095 ppm	0.0456 ppm	0.0105 ppm
Concentration per Run 3	0.0122 ppm	0.0459 ppm	2.1860 ppm	0.0241 ppm	0.0095 ppm	0.0458 ppm	0.0097 ppm
Recovery Percentage 1	131.216 %	92.051 %	116.101 %	95.999 %	93.994 %	91.003 %	96.074 %
Concentration RSD	7.6 %	0.4 %	6.9 %	0.5 %	2.4 %	0.7 %	9.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5124 ppm	0.0476 ppm	0.0113 ppm	0.0501 ppm	0.0203 ppm	0.0102 ppm	0.0061 ppm
Concentration per Run 1	0.5109 ppm	0.0475 ppm	0.0122 ppm	0.0501 ppm	0.0207 ppm	0.0102 ppm	0.0062 ppm
Concentration per Run 2	0.5119 ppm	0.0477 ppm	0.0112 ppm	0.0501 ppm	0.0202 ppm	0.0102 ppm	0.0061 ppm
Concentration per Run 3	0.5142 ppm	0.0474 ppm	0.0106 ppm	0.0500 ppm	0.0199 ppm	0.0103 ppm	0.0061 ppm
Recovery Percentage 1	102.470 %	95.105 %	113.232 %	100.118 %	101.275 %	102.357 %	122.825 %
Concentration RSD	0.3 %	0.3 %	7.2 %	0.2 %	1.9 %	0.7 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	108.8828 %	107.6035 %	108.2973 %	80.2259 %	107.3688 %	103.3171 %	0.0119 ppm
Concentration per Run 1	104.7294 %	108.0096 %	108.4242 %	74.8271 %	107.3524 %	103.4700 %	0.0125 ppm
Concentration per Run 2	110.8738 %	107.5374 %	108.3856 %	81.3148 %	107.2958 %	103.2795 %	0.0121 ppm
Concentration per Run 3	111.0452 %	107.2636 %	108.0822 %	84.5358 %	107.4581 %	103.2018 %	0.0112 ppm
Recovery Percentage 1							119.394 %
Concentration RSD	3.3 %	0.4 %	0.2 %	6.2 %	0.1 %	0.1 %	5.3 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: Blank DHL Trace5
Analysis started at: 6/19/2024 5:25:33 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.0 %	-0.4 %	1.9 %	0.6 %	0.1 %	1.2 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	0.0 %	0.0 %	0.0 %	-1.6 %	0.2 %	-2.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	1.1 %	-0.6 %	-0.2 %	-0.2 %	-0.2 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.2 %	-0.4 %	-0.1 %	-0.4 %	-0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: ICAL
Analysis started at: 6/19/2024 5:31:52 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0094 ppm	23.9106 ppm	0.9965 ppm	0.9952 ppm	0.9560 ppm	0.9569 ppm	9.5762 ppm
Concentration per Run 2	1.0112 ppm	25.4465 ppm	1.0025 ppm	1.0017 ppm	1.0164 ppm	1.0162 ppm	10.1555 ppm
Concentration per Run 3	0.9794 ppm	25.6428 ppm	1.0010 ppm	1.0031 ppm	1.0276 ppm	1.0269 ppm	10.2682 ppm
Concentration RSD	1.8 %	3.8 %	0.3 %	0.4 %	3.9 %	3.8 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9952 ppm	0.9959 ppm	1.0110 ppm	1.0103 ppm	23.9147 ppm	33.5166 ppm	10.0829 ppm
Concentration per Run 2	1.0016 ppm	1.0013 ppm	1.0108 ppm	1.0111 ppm	25.3944 ppm	35.6070 ppm	10.1267 ppm
Concentration per Run 3	1.0032 ppm	1.0027 ppm	0.9782 ppm	0.9786 ppm	25.6910 ppm	35.8763 ppm	9.7904 ppm
Concentration RSD	0.4 %	0.4 %	1.9 %	1.9 %	3.8 %	3.7 %	1.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9545 ppm	0.9902 ppm	23.9520 ppm	0.9952 ppm	0.9944 ppm	0.9958 ppm	0.9939 ppm
Concentration per Run 2	1.0178 ppm	1.0015 ppm	25.3964 ppm	1.0016 ppm	1.0026 ppm	1.0030 ppm	1.0065 ppm
Concentration per Run 3	1.0277 ppm	1.0083 ppm	25.6516 ppm	1.0032 ppm	1.0030 ppm	1.0012 ppm	0.9996 ppm
Concentration RSD	4.0 %	0.9 %	3.7 %	0.4 %	0.5 %	0.4 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9594 ppm	0.9950 ppm	0.9559 ppm	1.0084 ppm	0.9944 ppm	1.0107 ppm	0.9955 ppm
Concentration per Run 2	10.0203 ppm	1.0021 ppm	1.0170 ppm	1.0134 ppm	1.0006 ppm	1.0111 ppm	1.0022 ppm
Concentration per Run 3	10.0202 ppm	1.0028 ppm	1.0271 ppm	0.9782 ppm	1.0050 ppm	0.9782 ppm	1.0023 ppm
Concentration RSD	0.4 %	0.4 %	3.9 %	1.9 %	0.5 %	1.9 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5502 %	99.4510 %	97.2224 %	89.3740 %	96.9669 %	99.1338 %
Concentration per Run 1	104.4521 %	98.3618 %	97.5953 %	90.8303 %	97.6104 %	98.5545 %
Concentration per Run 2	98.9594 %	97.9705 %	97.1659 %	89.1881 %	96.7283 %	97.9117 %
Concentration per Run 3	98.2391 %	102.0206 %	96.9061 %	88.1037 %	96.5619 %	100.9352 %
Concentration RSD	3.4 %	2.2 %	0.4 %	1.5 %	0.6 %	1.6 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: ICV
Analysis started at: 6/19/2024 5:37:54 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5247 ppm	0.5136 ppm	0.5022 ppm	0.5044 ppm	0.5156 ppm	0.5292 ppm	0.5087 ppm
Concentration per Run 1	0.5250 ppm	0.5050 ppm	0.5053 ppm	0.5047 ppm	0.5120 ppm	0.5254 ppm	0.5072 ppm
Concentration per Run 2	0.5246 ppm	0.5163 ppm	0.4998 ppm	0.5033 ppm	0.5205 ppm	0.5335 ppm	0.5019 ppm
Concentration per Run 3	0.5246 ppm	0.5196 ppm	0.5014 ppm	0.5051 ppm	0.5143 ppm	0.5286 ppm	0.5171 ppm
Recovery Percentage 1	104.947 %	102.722 %	100.437 %	100.871 %	103.120 %	105.830 %	101.744 %
Concentration RSD	0.1 %	1.5 %	0.6 %	0.2 %	0.9 %	0.8 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5090 ppm	0.5190 ppm	0.5230 ppm	0.5135 ppm	0.5439 ppm	5.4997 ppm	0.5239 ppm
Concentration per Run 1	0.5096 ppm	0.5197 ppm	0.5242 ppm	0.5140 ppm	0.5378 ppm	5.4294 ppm	0.5230 ppm
Concentration per Run 2	0.5079 ppm	0.5174 ppm	0.5225 ppm	0.5141 ppm	0.5516 ppm	5.5483 ppm	0.5237 ppm
Concentration per Run 3	0.5096 ppm	0.5198 ppm	0.5223 ppm	0.5125 ppm	0.5424 ppm	5.5214 ppm	0.5249 ppm
Recovery Percentage 1	101.800 %	103.793 %	104.604 %	102.700 %	108.789 %	109.994 %	104.772 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.2 %	1.3 %	1.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5158 ppm	0.5076 ppm	10.6038 ppm	0.5200 ppm	0.5177 ppm	0.5170 ppm	0.5088 ppm
Concentration per Run 1	0.5124 ppm	0.5070 ppm	10.5376 ppm	0.5208 ppm	0.5185 ppm	0.5178 ppm	0.5090 ppm
Concentration per Run 2	0.5202 ppm	0.5064 ppm	10.6930 ppm	0.5189 ppm	0.5161 ppm	0.5163 ppm	0.5079 ppm
Concentration per Run 3	0.5149 ppm	0.5096 ppm	10.5808 ppm	0.5204 ppm	0.5184 ppm	0.5171 ppm	0.5094 ppm
Recovery Percentage 1	103.163 %	101.529 %	106.038 %	104.003 %	103.533 %	103.409 %	101.751 %
Concentration RSD	0.8 %	0.3 %	0.8 %	0.2 %	0.3 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6835 ppm	0.5134 ppm	0.5080 ppm	0.5274 ppm	0.5152 ppm	0.5149 ppm	0.5168 ppm
Concentration per Run 1	5.6906 ppm	0.5145 ppm	0.5045 ppm	0.5267 ppm	0.5167 ppm	0.5149 ppm	0.5177 ppm
Concentration per Run 2	5.6726 ppm	0.5125 ppm	0.5121 ppm	0.5291 ppm	0.5143 ppm	0.5150 ppm	0.5159 ppm
Concentration per Run 3	5.6871 ppm	0.5133 ppm	0.5073 ppm	0.5263 ppm	0.5145 ppm	0.5148 ppm	0.5168 ppm
Recovery Percentage 1	108.256 %	102.690 %	101.591 %	105.474 %	103.032 %	102.975 %	103.364 %
Concentration RSD	0.2 %	0.2 %	0.8 %	0.3 %	0.3 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.1350 %	99.5396 %	99.1794 %	81.8084 %	97.6960 %	96.4133 %
Concentration per Run 1	98.8779 %	99.5078 %	99.3772 %	81.0306 %	97.6941 %	96.3815 %
Concentration per Run 2	97.3203 %	99.7451 %	99.0471 %	82.0393 %	97.7678 %	96.3855 %
Concentration per Run 3	98.2068 %	99.3660 %	99.1139 %	82.3555 %	97.6260 %	96.4729 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.2 %	0.2 %	0.8 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: ICB
Analysis started at: 6/19/2024 5:43:58 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0037 ppm	0.0007 ppm	0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0348 ppm
Concentration per Run 1	-0.0003 ppm	0.0020 ppm	0.0004 ppm	0.0012 ppm	0.0003 ppm	0.0000 ppm	0.0353 ppm
Concentration per Run 2	-0.0003 ppm	-0.0013 ppm	0.0022 ppm	0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0318 ppm
Concentration per Run 3	0.0004 ppm	0.0102 ppm	-0.0004 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0372 ppm
Recovery Percentage 1	-0.703 %	3.654 %	14.669 %	4.583 %	3.355 %	-0.134 %	34.760 %
Concentration RSD	862.2 %	161.7 %	176.5 %	34.8 %	12.5 %	276.1 %	7.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0026 ppm	0.0038 ppm	0.0049 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0037 ppm	-0.0276 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0020 ppm	0.0317 ppm	0.0061 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0019 ppm	0.0073 ppm	0.0043 ppm
Recovery Percentage 1	0.091 %	0.588 %	0.344 %	4.114 %	5.101 %	0.152 %	4.890 %
Concentration RSD	997.0 %	171.0 %	738.6 %	71.5 %	38.8 %	786.1 %	22.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0019 ppm	-0.0219 ppm	-0.0001 ppm	-0.0003 ppm	0.0014 ppm	-0.0011 ppm
Concentration per Run 1	-0.0002 ppm	0.0023 ppm	-0.0181 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0019 ppm	-0.0150 ppm	0.0001 ppm	-0.0002 ppm	0.0020 ppm	-0.0020 ppm
Concentration per Run 3	-0.0004 ppm	0.0014 ppm	-0.0325 ppm	-0.0004 ppm	-0.0008 ppm	0.0021 ppm	-0.0005 ppm
Recovery Percentage 1	-2.392 %	3.748 %	-1.094 %	-0.324 %	-3.041 %	2.820 %	-11.123 %
Concentration RSD	61.9 %	25.7 %	42.7 %	316.6 %	163.9 %	77.7 %	69.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 1	0.0005 ppm	0.0006 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0009 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	-0.0006 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 3	0.0012 ppm	-0.0009 ppm	-0.0001 ppm	-0.0001 ppm	0.0010 ppm	-0.0004 ppm	-0.0004 ppm
Recovery Percentage 1	0.172 %	-0.048 %	0.165 %	-2.371 %	-0.633 %	-2.888 %	-5.979 %
Concentration RSD	44.0 %	3,074.8 %	459.4 %	78.9 %	806.8 %	50.4 %	25.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.4345 %	101.8342 %	100.9785 %	73.6539 %	96.1174 %	93.9597 %
Concentration per Run 1	97.5858 %	101.4187 %	101.0481 %	70.8435 %	95.5866 %	93.2401 %
Concentration per Run 2	98.2198 %	101.7876 %	100.9001 %	73.8653 %	96.2031 %	93.9170 %
Concentration per Run 3	99.4978 %	102.2961 %	100.9872 %	76.2529 %	96.5625 %	94.7219 %
Recovery Percentage 1						
Concentration RSD	1.0 %	0.4 %	0.1 %	3.7 %	0.5 %	0.8 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: ICV
Analysis started at: 6/19/2024 5:50:19 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5258 ppm	0.5281 ppm	0.5030 ppm	0.5058 ppm	0.5302 ppm	0.5363 ppm	0.5212 ppm
Concentration per Run 1	0.5263 ppm	0.5436 ppm	0.5046 ppm	0.5063 ppm	0.5393 ppm	0.5457 ppm	0.5301 ppm
Concentration per Run 2	0.5260 ppm	0.5133 ppm	0.5005 ppm	0.5065 ppm	0.5262 ppm	0.5318 ppm	0.5223 ppm
Concentration per Run 3	0.5251 ppm	0.5274 ppm	0.5039 ppm	0.5045 ppm	0.5250 ppm	0.5314 ppm	0.5111 ppm
Recovery Percentage 1	105.158 %	105.622 %	100.596 %	101.153 %	106.036 %	107.257 %	104.231 %
Concentration RSD	0.1 %	2.9 %	0.4 %	0.2 %	1.5 %	1.5 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5055 ppm	0.5162 ppm	0.5191 ppm	0.5123 ppm	0.5578 ppm	5.5932 ppm	0.5253 ppm
Concentration per Run 1	0.5071 ppm	0.5178 ppm	0.5193 ppm	0.5117 ppm	0.5663 ppm	5.6646 ppm	0.5261 ppm
Concentration per Run 2	0.5056 ppm	0.5166 ppm	0.5192 ppm	0.5132 ppm	0.5566 ppm	5.5464 ppm	0.5250 ppm
Concentration per Run 3	0.5036 ppm	0.5141 ppm	0.5187 ppm	0.5120 ppm	0.5506 ppm	5.5686 ppm	0.5248 ppm
Recovery Percentage 1	101.090 %	103.230 %	103.812 %	102.467 %	111.570 %	111.864 %	105.063 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.2 %	1.4 %	1.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5267 ppm	0.5008 ppm	10.8095 ppm	0.5202 ppm	0.5191 ppm	0.5147 ppm	0.5089 ppm
Concentration per Run 1	0.5371 ppm	0.4999 ppm	11.0226 ppm	0.5221 ppm	0.5208 ppm	0.5175 ppm	0.5098 ppm
Concentration per Run 2	0.5231 ppm	0.5010 ppm	10.7286 ppm	0.5202 ppm	0.5194 ppm	0.5135 ppm	0.5093 ppm
Concentration per Run 3	0.5200 ppm	0.5014 ppm	10.6773 ppm	0.5182 ppm	0.5171 ppm	0.5131 ppm	0.5077 ppm
Recovery Percentage 1	105.349 %	100.157 %	108.095 %	104.030 %	103.820 %	102.935 %	101.782 %
Concentration RSD	1.7 %	0.2 %	1.7 %	0.4 %	0.4 %	0.5 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3245 ppm	0.5218 ppm	0.5254 ppm	0.5268 ppm	0.5125 ppm	0.5139 ppm	0.5148 ppm
Concentration per Run 1	5.3386 ppm	0.5226 ppm	0.5345 ppm	0.5271 ppm	0.5151 ppm	0.5135 ppm	0.5165 ppm
Concentration per Run 2	5.3249 ppm	0.5221 ppm	0.5217 ppm	0.5264 ppm	0.5153 ppm	0.5147 ppm	0.5145 ppm
Concentration per Run 3	5.3098 ppm	0.5208 ppm	0.5202 ppm	0.5269 ppm	0.5071 ppm	0.5136 ppm	0.5134 ppm
Recovery Percentage 1	101.418 %	104.369 %	105.086 %	105.360 %	102.506 %	102.789 %	102.954 %
Concentration RSD	0.3 %	0.2 %	1.5 %	0.1 %	0.9 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.2109 %	100.5056 %	100.0912 %	82.8828 %	98.3347 %	97.4284 %
Concentration per Run 1	95.7311 %	100.4117 %	100.0711 %	81.3468 %	98.1374 %	97.2903 %
Concentration per Run 2	97.6854 %	100.8416 %	99.9359 %	83.1320 %	98.3585 %	97.8158 %
Concentration per Run 3	98.2163 %	100.2634 %	100.2664 %	84.1696 %	98.5082 %	97.1791 %
Recovery Percentage 1						
Concentration RSD	1.3 %	0.3 %	0.2 %	1.7 %	0.2 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: ICB
Analysis started at: 6/19/2024 5:56:23 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0030 ppm	0.0011 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0180 ppm
Concentration per Run 1	-0.0001 ppm	0.0052 ppm	0.0013 ppm	0.0011 ppm	0.0003 ppm	0.0002 ppm	0.0162 ppm
Concentration per Run 2	-0.0007 ppm	0.0029 ppm	0.0026 ppm	0.0019 ppm	0.0002 ppm	0.0001 ppm	0.0234 ppm
Concentration per Run 3	0.0004 ppm	0.0009 ppm	-0.0006 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0145 ppm
Recovery Percentage 1	-2.083 %	3.033 %	21.239 %	4.634 %	2.326 %	1.700 %	18.040 %
Concentration RSD	405.7 %	71.0 %	151.9 %	31.9 %	26.2 %	69.0 %	26.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0015 ppm	-0.0121 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0008 ppm	0.0011 ppm	0.0152 ppm	0.0028 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0017 ppm	-0.0055 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0018 ppm	-0.0461 ppm	0.0026 ppm
Recovery Percentage 1	-0.544 %	0.028 %	2.733 %	3.874 %	3.063 %	-0.485 %	3.158 %
Concentration RSD	94.0 %	1,954.3 %	105.9 %	135.9 %	25.1 %	257.2 %	25.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0015 ppm	-0.0327 ppm	0.0000 ppm	-0.0002 ppm	0.0015 ppm	-0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0018 ppm	-0.0274 ppm	0.0000 ppm	-0.0003 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0014 ppm	-0.0414 ppm	0.0000 ppm	-0.0008 ppm	0.0026 ppm	-0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0013 ppm	-0.0293 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	-0.0013 ppm
Recovery Percentage 1	-1.250 %	3.074 %	-1.635 %	0.071 %	-2.469 %	3.016 %	-4.601 %
Concentration RSD	181.9 %	17.3 %	23.2 %	279.1 %	222.3 %	62.1 %	159.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	-0.0013 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0008 ppm	-0.0005 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0009 ppm	0.0001 ppm
Recovery Percentage 1	0.064 %	-0.332 %	0.105 %	-3.434 %	-2.183 %	-3.581 %	0.323 %
Concentration RSD	124.0 %	218.3 %	1,462.0 %	86.6 %	170.9 %	141.6 %	446.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.0613 %	101.5769 %	101.1032 %	75.0500 %	96.0371 %	94.1525 %
Concentration per Run 1	96.0734 %	101.7263 %	100.7259 %	73.1174 %	95.2305 %	93.9291 %
Concentration per Run 2	97.5836 %	101.4801 %	101.4609 %	75.1649 %	96.2649 %	94.0801 %
Concentration per Run 3	97.5268 %	101.5243 %	101.1230 %	76.8678 %	96.6157 %	94.4482 %
Recovery Percentage 1						
Concentration RSD	0.9 %	0.1 %	0.4 %	2.5 %	0.7 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LLOQ RL
Analysis started at: 6/19/2024 6:02:45 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0078 ppm	0.1084 ppm	0.0051 ppm	0.0315 ppm	0.0112 ppm	0.0054 ppm	0.1118 ppm
Concentration per Run 1	0.0071 ppm	0.1099 ppm	0.0053 ppm	0.0314 ppm	0.0113 ppm	0.0055 ppm	0.1125 ppm
Concentration per Run 2	0.0085 ppm	0.1161 ppm	0.0049 ppm	0.0317 ppm	0.0112 ppm	0.0054 ppm	0.1135 ppm
Concentration per Run 3	0.0079 ppm	0.0991 ppm	0.0052 ppm	0.0313 ppm	0.0112 ppm	0.0054 ppm	0.1094 ppm
Recovery Percentage 1	111.698 %	108.384 %	102.023 %	104.984 %	112.289 %	108.745 %	111.780 %
Concentration RSD	8.6 %	8.0 %	4.3 %	0.6 %	0.6 %	1.6 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0043 ppm	0.0215 ppm	0.0111 ppm	0.0117 ppm	**0.0642 ppm**	2.8566 ppm	0.1124 ppm
Concentration per Run 1	0.0043 ppm	0.0216 ppm	0.0111 ppm	0.0113 ppm	0.0637 ppm	2.9054 ppm	0.1136 ppm
Concentration per Run 2	0.0043 ppm	0.0216 ppm	0.0110 ppm	0.0120 ppm	0.0630 ppm	2.8317 ppm	0.1109 ppm
Concentration per Run 3	0.0043 ppm	0.0214 ppm	0.0112 ppm	0.0116 ppm	0.0658 ppm	2.8326 ppm	0.1126 ppm
Recovery Percentage 1	106.902 %	107.653 %	111.218 %	116.725 %	128.325 %	114.263 %	112.363 %
Concentration RSD	0.6 %	0.6 %	1.1 %	3.0 %	**2.2 %**	1.5 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0112 ppm	0.0520 ppm	2.2393 ppm	0.0267 ppm	0.0105 ppm	0.0545 ppm	0.0089 ppm
Concentration per Run 1	0.0116 ppm	0.0520 ppm	2.2784 ppm	0.0269 ppm	0.0104 ppm	0.0553 ppm	0.0111 ppm
Concentration per Run 2	0.0115 ppm	0.0522 ppm	2.2204 ppm	0.0267 ppm	0.0106 ppm	0.0546 ppm	0.0059 ppm
Concentration per Run 3	0.0106 ppm	0.0518 ppm	2.2192 ppm	0.0266 ppm	0.0105 ppm	0.0536 ppm	0.0096 ppm
Recovery Percentage 1	112.151 %	104.081 %	111.966 %	106.986 %	105.188 %	108.972 %	88.616 %
Concentration RSD	5.1 %	0.4 %	1.5 %	0.5 %	0.7 %	1.5 %	30.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5529 ppm	0.0523 ppm	0.0106 ppm	0.0529 ppm	0.0215 ppm	0.0104 ppm	0.0050 ppm
Concentration per Run 1	0.5546 ppm	0.0521 ppm	0.0106 ppm	0.0533 ppm	0.0215 ppm	0.0104 ppm	0.0049 ppm
Concentration per Run 2	0.5531 ppm	0.0525 ppm	0.0107 ppm	0.0529 ppm	0.0214 ppm	0.0102 ppm	0.0050 ppm
Concentration per Run 3	0.5510 ppm	0.0525 ppm	0.0106 ppm	0.0525 ppm	0.0216 ppm	0.0106 ppm	0.0050 ppm
Recovery Percentage 1	110.578 %	104.675 %	106.232 %	105.765 %	107.447 %	103.739 %	99.516 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.8 %	0.6 %	1.6 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.9343 %	101.4959 %	100.9770 %	80.0751 %	98.7909 %	98.0578 %
Concentration per Run 1	97.1624 %	101.5865 %	100.9993 %	78.6003 %	98.5916 %	97.8661 %
Concentration per Run 2	98.3429 %	101.4062 %	100.9440 %	80.1530 %	98.7625 %	98.0266 %
Concentration per Run 3	98.2977 %	101.4948 %	100.9877 %	81.4720 %	99.0188 %	98.2806 %
Recovery Percentage 1						
Concentration RSD	0.7 %	0.1 %	0.0 %	1.8 %	0.2 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: ICSA
Analysis started at: 6/19/2024 6:09:02 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0013 ppm	528.8472 ppm	-0.0036 ppm	-0.0034 ppm	0.0021 ppm	-0.0001 ppm	492.1007 ppm
Concentration per Run 1	0.0012 ppm	521.6851 ppm	-0.0036 ppm	-0.0031 ppm	0.0019 ppm	-0.0001 ppm	482.0440 ppm
Concentration per Run 2	0.0014 ppm	532.2575 ppm	-0.0053 ppm	-0.0031 ppm	0.0021 ppm	0.0000 ppm	491.3986 ppm
Concentration per Run 3	0.0014 ppm	532.5990 ppm	-0.0019 ppm	-0.0039 ppm	0.0022 ppm	0.0000 ppm	502.8596 ppm
Recovery Percentage 1	18.955 %	528,847.216 %	-72.000 %	-11.263 %	20.837 %	-1.045 %	492,100.718 %
Concentration RSD	9.9 %	1.2 %	46.7 %	13.8 %	7.0 %	37.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0025 ppm	0.0003 ppm	0.0002 ppm	-0.0124 ppm	195.5887 ppm	0.0206 ppm	504.8513 ppm
Concentration per Run 1	0.0025 ppm	0.0004 ppm	0.0004 ppm	-0.0123 ppm	193.3178 ppm	0.0194 ppm	503.1238 ppm
Concentration per Run 2	0.0025 ppm	0.0000 ppm	0.0002 ppm	-0.0127 ppm	195.6829 ppm	0.0254 ppm	505.7512 ppm
Concentration per Run 3	0.0026 ppm	0.0004 ppm	0.0000 ppm	-0.0121 ppm	197.7654 ppm	0.0170 ppm	505.6790 ppm
Recovery Percentage 1	63.130 %	1.435 %	2.023 %	-123.873 %	391,177.451 %	0.823 %	504,851.341 %
Concentration RSD	1.8 %	90.3 %	80.6 %	2.6 %	1.1 %	21.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	-0.0019 ppm	0.1001 ppm	-0.0092 ppm	0.0031 ppm	0.0116 ppm	0.0084 ppm
Concentration per Run 1	-0.0008 ppm	-0.0017 ppm	0.0903 ppm	-0.0093 ppm	0.0030 ppm	0.0124 ppm	0.0071 ppm
Concentration per Run 2	0.0001 ppm	-0.0020 ppm	0.0930 ppm	-0.0093 ppm	0.0007 ppm	0.0108 ppm	0.0118 ppm
Concentration per Run 3	0.0006 ppm	-0.0020 ppm	0.1170 ppm	-0.0090 ppm	0.0057 ppm	0.0116 ppm	0.0063 ppm
Recovery Percentage 1	-0.225 %	-3.801 %	5.004 %	-36.864 %	31.173 %	23.150 %	84.059 %
Concentration RSD	3,136.2 %	8.2 %	14.7 %	1.7 %	81.1 %	6.8 %	35.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0200 ppm	-0.0006 ppm	0.0049 ppm	0.0049 ppm	0.0000 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0227 ppm	-0.0003 ppm	0.0047 ppm	0.0053 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0182 ppm	-0.0014 ppm	0.0047 ppm	0.0046 ppm	-0.0005 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0193 ppm	0.0000 ppm	0.0052 ppm	0.0049 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm
Recovery Percentage 1	4.009 %	-1.168 %	48.538 %	49.337 %	0.026 %	-3.746 %	1.344 %
Concentration RSD	11.7 %	119.9 %	5.4 %	7.5 %	13,016.3 %	48.2 %	100.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	93.2785 %	88.4462 %	88.1358 %	83.0361 %	80.1351 %	87.8724 %
Concentration per Run 1	94.3599 %	88.2862 %	88.3541 %	83.8053 %	80.2997 %	87.7558 %
Concentration per Run 2	93.2346 %	88.6518 %	88.0781 %	83.0703 %	80.1646 %	88.2109 %
Concentration per Run 3	92.2409 %	88.4005 %	87.9752 %	82.2327 %	79.9411 %	87.6505 %
Recovery Percentage 1						
Concentration RSD	1.1 %	0.2 %	0.2 %	0.9 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: SIC Multi
Analysis started at: 6/19/2024 6:26:19 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0050 ppm	-0.0005 ppm	0.0036 ppm	0.0005 ppm	-0.0033 ppm	-0.0598 ppm
Concentration per Run 1	0.0002 ppm	0.0119 ppm	-0.0019 ppm	0.0034 ppm	0.0006 ppm	-0.0031 ppm	-0.0609 ppm
Concentration per Run 2	0.0002 ppm	0.0040 ppm	-0.0004 ppm	0.0037 ppm	0.0006 ppm	-0.0031 ppm	-0.0633 ppm
Concentration per Run 3	-0.0003 ppm	-0.0007 ppm	0.0008 ppm	0.0038 ppm	0.0005 ppm	-0.0036 ppm	-0.0552 ppm
Recovery Percentage 1	0.358 %	5.048 %	-10.306 %	12.123 %	5.438 %	-65.715 %	-59.801 %
Concentration RSD	1,166.6 %	126.3 %	261.9 %	4.7 %	12.3 %	7.8 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0005 ppm	0.0087 ppm	20.3852 ppm	-0.0021 ppm	-0.0034 ppm	-0.0353 ppm	-0.0245 ppm
Concentration per Run 1	-0.0004 ppm	0.0087 ppm	20.3525 ppm	-0.0023 ppm	-0.0031 ppm	-0.0291 ppm	-0.0233 ppm
Concentration per Run 2	-0.0005 ppm	0.0085 ppm	20.4857 ppm	-0.0016 ppm	-0.0017 ppm	-0.0418 ppm	-0.0251 ppm
Concentration per Run 3	-0.0004 ppm	0.0089 ppm	20.3175 ppm	-0.0023 ppm	-0.0052 ppm	-0.0350 ppm	-0.0253 ppm
Recovery Percentage 1	-11.285 %	43.408 %	203,852.184 %	-20.603 %	-6.727 %	-1.412 %	-24.535 %
Concentration RSD	10.4 %	2.3 %	0.4 %	17.9 %	52.7 %	18.1 %	4.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	21.7750 ppm	0.0010 ppm	-0.0223 ppm	0.0002 ppm	0.0033 ppm	0.0193 ppm	-0.0082 ppm
Concentration per Run 1	22.6144 ppm	0.0010 ppm	-0.0273 ppm	0.0006 ppm	0.0028 ppm	0.0191 ppm	-0.0073 ppm
Concentration per Run 2	21.5498 ppm	0.0010 ppm	-0.0215 ppm	0.0002 ppm	0.0036 ppm	0.0189 ppm	-0.0106 ppm
Concentration per Run 3	21.1608 ppm	0.0009 ppm	-0.0180 ppm	-0.0002 ppm	0.0034 ppm	0.0199 ppm	-0.0067 ppm
Recovery Percentage 1	217,749.932 %	1.922 %	-1.113 %	0.859 %	32.624 %	38.651 %	-81.809 %
Concentration RSD	3.5 %	3.3 %	21.2 %	196.7 %	12.4 %	2.8 %	25.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0471 ppm	-0.0029 ppm	0.0007 ppm	19.9315 ppm	0.0056 ppm	10.3619 ppm	-0.0052 ppm
Concentration per Run 1	-0.0467 ppm	-0.0030 ppm	0.0007 ppm	19.8422 ppm	0.0081 ppm	10.3703 ppm	-0.0052 ppm
Concentration per Run 2	-0.0484 ppm	-0.0029 ppm	0.0006 ppm	20.0177 ppm	0.0068 ppm	10.3794 ppm	-0.0051 ppm
Concentration per Run 3	-0.0463 ppm	-0.0028 ppm	0.0008 ppm	19.9347 ppm	0.0018 ppm	10.3360 ppm	-0.0053 ppm
Recovery Percentage 1	-9.426 %	-5.785 %	6.966 %	199,315.375 %	27.829 %	103,618.812 %	-103.992 %
Concentration RSD	2.3 %	2.2 %	12.1 %	0.4 %	59.0 %	0.2 %	2.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	94.9813 %	102.2276 %	102.7498 %	89.1117 %	101.3269 %	100.5664 %
Concentration per Run 1	91.1376 %	102.4260 %	102.8565 %	88.3764 %	101.6082 %	101.0623 %
Concentration per Run 2	96.1422 %	101.9919 %	102.5109 %	89.4761 %	100.9888 %	100.5109 %
Concentration per Run 3	97.6641 %	102.2649 %	102.8820 %	89.4825 %	101.3838 %	100.1260 %
Recovery Percentage 1						
Concentration RSD	3.6 %	0.2 %	0.2 %	0.7 %	0.3 %	0.5 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LDR Check
Analysis started at: 6/19/2024 6:32:55 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	0.0779 ppm	20.8119 ppm	19.0933 ppm	20.9898 ppm	5.1423 ppm	0.0121 ppm
Concentration per Run 1	0.0012 ppm	0.0706 ppm	20.7854 ppm	19.0704 ppm	20.7084 ppm	5.1189 ppm	0.0188 ppm
Concentration per Run 2	0.0016 ppm	0.0728 ppm	20.8174 ppm	19.0920 ppm	21.1346 ppm	5.1421 ppm	-0.0003 ppm
Concentration per Run 3	0.0015 ppm	0.0904 ppm	20.8329 ppm	19.1174 ppm	21.1264 ppm	5.1660 ppm	0.0177 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.059 %	95.466 %	104.949 %	102.846 %	0.000 %
Concentration RSD	16.3 %	13.9 %	0.1 %	0.1 %	1.2 %	0.5 %	89.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	4.8646 ppm	4.9159 ppm	-0.0005 ppm	20.8030 ppm	0.0450 ppm	432.5978 ppm	-0.0375 ppm
Concentration per Run 1	4.8618 ppm	4.9092 ppm	-0.0004 ppm	20.9071 ppm	0.0473 ppm	438.3252 ppm	-0.0389 ppm
Concentration per Run 2	4.8631 ppm	4.9146 ppm	-0.0010 ppm	20.8226 ppm	0.0428 ppm	432.2699 ppm	-0.0382 ppm
Concentration per Run 3	4.8689 ppm	4.9238 ppm	0.0000 ppm	20.6792 ppm	0.0447 ppm	427.1983 ppm	-0.0354 ppm
Recovery Percentage 1	97.291 %	98.317 %	0.000 %	104.015 %	0.000 %	86.520 %	0.000 %
Concentration RSD	0.1 %	0.1 %	109.6 %	0.6 %	5.0 %	1.3 %	4.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	5.0901 ppm	376.9849 ppm	9.6718 ppm	48.6505 ppm	5.1389 ppm	4.9351 ppm
Concentration per Run 1	0.0009 ppm	5.0654 ppm	378.1975 ppm	9.6639 ppm	48.6111 ppm	5.1288 ppm	4.9247 ppm
Concentration per Run 2	0.0007 ppm	5.0948 ppm	377.9034 ppm	9.6740 ppm	48.6591 ppm	5.1399 ppm	4.9355 ppm
Concentration per Run 3	0.0007 ppm	5.1102 ppm	374.8539 ppm	9.6775 ppm	48.6812 ppm	5.1481 ppm	4.9452 ppm
Recovery Percentage 1	0.000 %	101.803 %	75.397 %	96.718 %	97.301 %	102.779 %	98.702 %
Concentration RSD	14.6 %	0.4 %	0.5 %	0.1 %	0.1 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	22.1435 ppm	7.3640 ppm	5.0689 ppm	0.0066 ppm	4.5743 ppm	-0.0024 ppm	19.3128 ppm
Concentration per Run 1	22.1101 ppm	7.3532 ppm	5.0902 ppm	0.0068 ppm	4.5717 ppm	-0.0024 ppm	19.3063 ppm
Concentration per Run 2	22.1549 ppm	7.3653 ppm	5.1358 ppm	0.0064 ppm	4.5732 ppm	-0.0027 ppm	19.3082 ppm
Concentration per Run 3	22.1655 ppm	7.3734 ppm	4.9807 ppm	0.0066 ppm	4.5780 ppm	-0.0022 ppm	19.3238 ppm
Recovery Percentage 1	110.718 %	73.640 %	101.378 %	0.000 %	91.486 %	0.000 %	96.564 %
Concentration RSD	0.1 %	0.1 %	1.6 %	2.6 %	0.1 %	11.3 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	94.0704 %	91.4233 %	83.7452 %	83.8519 %	90.9633 %	89.9538 %
Concentration per Run 1	94.3058 %	91.2224 %	83.8168 %	85.0821 %	90.9685 %	89.7237 %
Concentration per Run 2	93.7288 %	91.3020 %	83.9016 %	83.1380 %	91.1886 %	89.8181 %
Concentration per Run 3	94.1766 %	91.7455 %	83.5172 %	83.3356 %	90.7329 %	90.3196 %
Recovery Percentage 1						
Concentration RSD	0.3 %	0.3 %	0.2 %	1.3 %	0.3 %	0.4 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LLOQ RL 0.01
Analysis started at: 6/19/2024 7:01:29 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0107 ppm	0.0091 ppm	0.0113 ppm	0.0168 ppm	0.0104 ppm	0.0101 ppm	0.0197 ppm
Concentration per Run 1	0.0109 ppm	0.0182 ppm	0.0088 ppm	0.0171 ppm	0.0097 ppm	0.0094 ppm	0.0170 ppm
Concentration per Run 2	0.0113 ppm	0.0042 ppm	0.0115 ppm	0.0168 ppm	0.0106 ppm	0.0103 ppm	0.0225 ppm
Concentration per Run 3	0.0100 ppm	0.0049 ppm	0.0137 ppm	0.0165 ppm	0.0109 ppm	0.0105 ppm	0.0196 ppm
Recovery Percentage 1	0.000 %	0.000 %	113.259 %	167.927 %	104.079 %	0.000 %	0.000 %
Concentration RSD	5.9 %	86.6 %	21.8 %	1.7 %	5.8 %	6.0 %	13.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0102 ppm	0.0103 ppm	0.0106 ppm	0.0107 ppm	0.0101 ppm	0.1524 ppm	0.0115 ppm
Concentration per Run 1	0.0102 ppm	0.0102 ppm	0.0107 ppm	0.0109 ppm	0.0099 ppm	0.1279 ppm	0.0098 ppm
Concentration per Run 2	0.0102 ppm	0.0105 ppm	0.0106 ppm	0.0110 ppm	0.0088 ppm	0.1580 ppm	0.0148 ppm
Concentration per Run 3	0.0102 ppm	0.0103 ppm	0.0106 ppm	0.0103 ppm	0.0117 ppm	0.1714 ppm	0.0101 ppm
Recovery Percentage 1	0.000 %	103.476 %	106.133 %	107.449 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.4 %	1.6 %	0.5 %	3.4 %	14.6 %	14.6 %	24.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0107 ppm	0.0107 ppm	0.2002 ppm	0.0112 ppm	0.0108 ppm	0.0114 ppm	0.0096 ppm
Concentration per Run 1	0.0099 ppm	0.0106 ppm	0.1916 ppm	0.0112 ppm	0.0103 ppm	0.0124 ppm	0.0084 ppm
Concentration per Run 2	0.0107 ppm	0.0109 ppm	0.2141 ppm	0.0114 ppm	0.0111 ppm	0.0106 ppm	0.0095 ppm
Concentration per Run 3	0.0114 ppm	0.0106 ppm	0.1951 ppm	0.0109 ppm	0.0109 ppm	0.0113 ppm	0.0109 ppm
Recovery Percentage 1	106.676 %	107.195 %	0.000 %	111.541 %	107.546 %	0.000 %	96.197 %
Concentration RSD	6.7 %	1.4 %	6.0 %	2.0 %	3.7 %	7.7 %	13.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1084 ppm	0.0102 ppm	0.0104 ppm	0.0102 ppm	0.0108 ppm	0.0102 ppm	0.0114 ppm
Concentration per Run 1	0.1085 ppm	0.0103 ppm	0.0099 ppm	0.0101 ppm	0.0119 ppm	0.0097 ppm	0.0113 ppm
Concentration per Run 2	0.1079 ppm	0.0099 ppm	0.0105 ppm	0.0101 ppm	0.0104 ppm	0.0106 ppm	0.0115 ppm
Concentration per Run 3	0.1087 ppm	0.0104 ppm	0.0109 ppm	0.0104 ppm	0.0102 ppm	0.0104 ppm	0.0114 ppm
Recovery Percentage 1	0.000 %	102.031 %	104.472 %	102.040 %	108.385 %	102.218 %	113.936 %
Concentration RSD	0.4 %	2.5 %	4.9 %	1.5 %	8.6 %	4.2 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.9892 %	102.1612 %	101.8842 %	100.5424 %	99.1203 %	97.1809 %
Concentration per Run 1	106.8546 %	102.2872 %	101.8053 %	107.5451 %	99.1102 %	96.8783 %
Concentration per Run 2	99.0271 %	102.2582 %	101.8899 %	99.4278 %	98.8912 %	97.0372 %
Concentration per Run 3	97.0859 %	101.9382 %	101.9575 %	94.6543 %	99.3594 %	97.6271 %
Recovery Percentage 1						
Concentration RSD	5.1 %	0.2 %	0.1 %	6.5 %	0.2 %	0.4 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LLOQ RL 0.05
Analysis started at: 6/19/2024 7:07:47 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0546 ppm	**0.0609 ppm**	0.0506 ppm	0.0561 ppm	0.0529 ppm	0.0522 ppm	**0.0696 ppm**
Concentration per Run 1	0.0546 ppm	0.0654 ppm	0.0509 ppm	0.0565 ppm	0.0526 ppm	0.0522 ppm	0.0741 ppm
Concentration per Run 2	0.0543 ppm	0.0605 ppm	0.0514 ppm	0.0558 ppm	0.0528 ppm	0.0524 ppm	0.0667 ppm
Concentration per Run 3	0.0548 ppm	0.0570 ppm	0.0494 ppm	0.0560 ppm	0.0533 ppm	0.0521 ppm	0.0679 ppm
Recovery Percentage 1	0.000 %	121.866 %	0.000 %	0.000 %	0.000 %	0.000 %	139.146 %
Concentration RSD	0.5 %	**6.9 %**	2.0 %	0.6 %	0.7 %	0.2 %	**5.7 %**

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0514 ppm	0.0528 ppm	0.0534 ppm	0.0527 ppm	0.0526 ppm	**0.6211 ppm**	0.0586 ppm
Concentration per Run 1	0.0517 ppm	0.0531 ppm	0.0536 ppm	0.0529 ppm	0.0529 ppm	0.6398 ppm	0.0577 ppm
Concentration per Run 2	0.0514 ppm	0.0527 ppm	0.0534 ppm	0.0526 ppm	0.0520 ppm	0.5736 ppm	0.0584 ppm
Concentration per Run 3	0.0512 ppm	0.0525 ppm	0.0530 ppm	0.0527 ppm	0.0530 ppm	0.6498 ppm	0.0599 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	105.271 %	24.843 %	117.269 %
Concentration RSD	0.5 %	0.6 %	0.5 %	0.3 %	1.1 %	**6.7 %**	1.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0529 ppm	0.0504 ppm	1.0746 ppm	0.0536 ppm	0.0529 ppm	0.0516 ppm	0.0526 ppm
Concentration per Run 1	0.0524 ppm	0.0506 ppm	1.0621 ppm	0.0538 ppm	0.0534 ppm	0.0518 ppm	0.0539 ppm
Concentration per Run 2	0.0529 ppm	0.0503 ppm	1.0803 ppm	0.0536 ppm	0.0532 ppm	0.0504 ppm	0.0528 ppm
Concentration per Run 3	0.0535 ppm	0.0501 ppm	1.0813 ppm	0.0534 ppm	0.0523 ppm	0.0524 ppm	0.0510 ppm
Recovery Percentage 1	0.000 %	0.000 %	107.458 %	0.000 %	0.000 %	103.101 %	0.000 %
Concentration RSD	1.0 %	0.5 %	1.0 %	0.4 %	1.1 %	2.0 %	2.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5401 ppm	0.0519 ppm	0.0527 ppm	0.0533 ppm	0.0521 ppm	0.0519 ppm	0.0535 ppm
Concentration per Run 1	0.5434 ppm	0.0529 ppm	0.0523 ppm	0.0532 ppm	0.0517 ppm	0.0522 ppm	0.0538 ppm
Concentration per Run 2	0.5406 ppm	0.0515 ppm	0.0530 ppm	0.0528 ppm	0.0524 ppm	0.0521 ppm	0.0535 ppm
Concentration per Run 3	0.5364 ppm	0.0514 ppm	0.0527 ppm	0.0538 ppm	0.0520 ppm	0.0514 ppm	0.0533 ppm
Recovery Percentage 1	108.025 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	107.079 %
Concentration RSD	0.7 %	1.6 %	0.6 %	0.9 %	0.7 %	0.8 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.4128 %	102.5828 %	102.4367 %	79.5688 %	98.4559 %	96.7881 %
Concentration per Run 1	98.8181 %	102.8046 %	102.5115 %	78.8378 %	97.9430 %	96.8405 %
Concentration per Run 2	98.0368 %	102.2991 %	102.5019 %	79.1690 %	98.5114 %	96.7600 %
Concentration per Run 3	98.3834 %	102.6446 %	102.2968 %	80.6996 %	98.9132 %	96.7638 %
Recovery Percentage 1						
Concentration RSD	0.4 %	0.3 %	0.1 %	1.2 %	0.5 %	0.0 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LDR 20 Si
Analysis started at: 6/19/2024 7:13:59 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0011 ppm	0.0011 ppm	0.0086 ppm	0.0003 ppm	0.0000 ppm	0.0107 ppm
Concentration per Run 1	0.0004 ppm	0.0039 ppm	0.0015 ppm	0.0088 ppm	0.0004 ppm	0.0000 ppm	0.0131 ppm
Concentration per Run 2	-0.0002 ppm	-0.0027 ppm	0.0021 ppm	0.0084 ppm	0.0003 ppm	-0.0001 ppm	0.0109 ppm
Concentration per Run 3	0.0004 ppm	-0.0043 ppm	-0.0004 ppm	0.0087 ppm	0.0002 ppm	0.0000 ppm	0.0080 ppm
Concentration RSD	185.2 %	409.4 %	125.5 %	2.3 %	40.7 %	7,989.4 %	24.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0357 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	-0.0003 ppm	-0.0004 ppm	0.0030 ppm	0.0599 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0031 ppm	0.0043 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	0.0001 ppm	-0.0004 ppm	0.0017 ppm	0.0430 ppm	0.0012 ppm
Concentration RSD	147.5 %	53.5 %	1,552.2 %	171.5 %	31.0 %	79.9 %	47.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0005 ppm	-0.0168 ppm	0.0000 ppm	0.0014 ppm	0.0016 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	-0.0141 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	-0.0014 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	-0.0148 ppm	-0.0001 ppm	0.0012 ppm	0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0004 ppm	-0.0215 ppm	0.0001 ppm	0.0024 ppm	0.0020 ppm	-0.0011 ppm
Concentration RSD	49.9 %	23.7 %	24.4 %	331.1 %	69.0 %	29.8 %	78.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	20.9242 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	20.9713 ppm	0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 2	20.9228 ppm	-0.0004 ppm	0.0003 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 3	20.8784 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0011 ppm
Concentration RSD	0.2 %	4,439.8 %	282.2 %	9.1 %	108.7 %	374.7 %	11.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.9364 %	104.3110 %	103.9664 %	85.0024 %	101.4264 %	100.3254 %
Concentration per Run 1	95.6004 %	104.1176 %	104.0739 %	83.9148 %	101.2717 %	99.9960 %
Concentration per Run 2	99.1444 %	104.3753 %	103.8776 %	85.5117 %	101.4587 %	100.3183 %
Concentration per Run 3	99.0644 %	104.4402 %	103.9479 %	85.5807 %	101.5487 %	100.6618 %
Concentration RSD	2.1 %	0.2 %	0.1 %	1.1 %	0.1 %	0.3 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LDR 400 K
Analysis started at: 6/19/2024 7:20:17 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0080 ppm	0.0013 ppm	0.0046 ppm	0.0004 ppm	0.0001 ppm	0.0155 ppm
Concentration per Run 1	0.0003 ppm	0.0097 ppm	0.0009 ppm	0.0050 ppm	0.0004 ppm	0.0000 ppm	0.0133 ppm
Concentration per Run 2	0.0004 ppm	0.0082 ppm	0.0015 ppm	0.0044 ppm	0.0006 ppm	0.0002 ppm	0.0199 ppm
Concentration per Run 3	0.0007 ppm	0.0060 ppm	0.0016 ppm	0.0045 ppm	0.0003 ppm	0.0000 ppm	0.0134 ppm
Concentration RSD	41.0 %	23.6 %	29.4 %	7.6 %	30.4 %	156.8 %	24.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0018 ppm	0.0010 ppm	378.6418 ppm	0.0036 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0017 ppm	0.0015 ppm	388.5592 ppm	0.0040 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0018 ppm	0.0009 ppm	372.8033 ppm	0.0043 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0018 ppm	0.0007 ppm	374.5629 ppm	0.0027 ppm
Concentration RSD	116.2 %	61.3 %	169.5 %	4.5 %	39.9 %	2.3 %	23.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0001 ppm	-0.0087 ppm	0.0001 ppm	0.0010 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	-0.0122 ppm	0.0002 ppm	0.0013 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0170 ppm	0.0001 ppm	0.0006 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0032 ppm	0.0000 ppm	0.0011 ppm	0.0007 ppm	0.0009 ppm
Concentration RSD	71.9 %	80.9 %	121.6 %	87.8 %	38.9 %	52.4 %	133.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0056 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 1	0.0055 ppm	-0.0007 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 2	0.0054 ppm	-0.0013 ppm	-0.0001 ppm	-0.0005 ppm	0.0014 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 3	0.0058 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0010 ppm
Concentration RSD	3.7 %	70.7 %	249.1 %	1,039.0 %	57.5 %	88.0 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	96.7653 %	98.0010 %	98.6223 %	74.8235 %	93.1659 %	92.1647 %
Concentration per Run 1	95.3822 %	98.1506 %	98.4810 %	72.8466 %	92.3776 %	92.0342 %
Concentration per Run 2	98.1532 %	98.2507 %	98.6009 %	75.4352 %	93.3552 %	92.4105 %
Concentration per Run 3	96.7605 %	97.6017 %	98.7849 %	76.1886 %	93.7650 %	92.0493 %
Concentration RSD	1.4 %	0.4 %	0.2 %	2.3 %	0.8 %	0.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LDR 250 Na
Analysis started at: 6/19/2024 7:26:37 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0013 ppm	0.0009 ppm	0.0038 ppm	0.0000 ppm	0.0000 ppm	0.0204 ppm
Concentration per Run 1	-0.0002 ppm	0.0042 ppm	0.0006 ppm	0.0039 ppm	-0.0002 ppm	0.0000 ppm	0.0199 ppm
Concentration per Run 2	0.0005 ppm	-0.0048 ppm	0.0001 ppm	0.0037 ppm	0.0001 ppm	0.0000 ppm	0.0234 ppm
Concentration per Run 3	0.0001 ppm	-0.0033 ppm	0.0018 ppm	0.0038 ppm	0.0000 ppm	0.0000 ppm	0.0180 ppm
Concentration RSD	268.0 %	366.0 %	101.2 %	2.0 %	396.0 %	253.0 %	13.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0013 ppm	0.7231 ppm	0.0026 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm	0.6928 ppm	0.0032 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0005 ppm	-0.0004 ppm	0.0028 ppm	0.7356 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0009 ppm	0.7408 ppm	0.0040 ppm
Concentration RSD	58.3 %	48.2 %	199.4 %	206.4 %	100.6 %	3.6 %	71.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0001 ppm	230.8340 ppm	0.0001 ppm	-0.0007 ppm	-0.0005 ppm	-0.0010 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	225.5516 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	234.7969 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	232.1534 ppm	-0.0001 ppm	-0.0018 ppm	-0.0018 ppm	-0.0020 ppm
Concentration RSD	91.7 %	131.3 %	2.1 %	132.1 %	142.9 %	248.4 %	129.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0028 ppm	-0.0005 ppm	0.0001 ppm	-0.0004 ppm	0.0010 ppm	-0.0003 ppm	0.0012 ppm
Concentration per Run 1	0.0034 ppm	-0.0008 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	-0.0005 ppm	0.0012 ppm
Concentration per Run 2	0.0022 ppm	-0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0016 ppm	-0.0002 ppm	0.0012 ppm
Concentration per Run 3	0.0027 ppm	-0.0007 ppm	0.0000 ppm	-0.0005 ppm	0.0006 ppm	-0.0003 ppm	0.0012 ppm
Concentration RSD	21.3 %	62.7 %	174.2 %	38.0 %	55.8 %	41.6 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.5012 %	97.2512 %	97.9798 %	80.7892 %	93.2112 %	93.5220 %
Concentration per Run 1	100.6549 %	97.1286 %	97.7274 %	80.3244 %	92.8897 %	93.4670 %
Concentration per Run 2	97.6614 %	97.3883 %	98.2713 %	80.6465 %	93.3277 %	93.4965 %
Concentration per Run 3	97.1872 %	97.2366 %	97.9406 %	81.3967 %	93.4163 %	93.6025 %
Concentration RSD	1.9 %	0.1 %	0.3 %	0.7 %	0.3 %	0.1 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 7:45:26 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5069 ppm	0.5040 ppm	0.4952 ppm	0.4951 ppm	0.5016 ppm	0.4987 ppm	0.4980 ppm
Concentration per Run 1	0.5053 ppm	0.4707 ppm	0.4932 ppm	0.4929 ppm	0.4673 ppm	0.4651 ppm	0.4633 ppm
Concentration per Run 2	0.5073 ppm	0.5129 ppm	0.4954 ppm	0.4947 ppm	0.5144 ppm	0.5110 ppm	0.5127 ppm
Concentration per Run 3	0.5080 ppm	0.5283 ppm	0.4971 ppm	0.4975 ppm	0.5229 ppm	0.5199 ppm	0.5181 ppm
Recovery Percentage 1	101.374 %	100.794 %	99.049 %	99.014 %	100.311 %	99.733 %	99.608 %
Concentration RSD	0.3 %	5.9 %	0.4 %	0.5 %	6.0 %	5.9 %	6.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4914 ppm	0.5004 ppm	0.4973 ppm	0.4925 ppm	0.5069 ppm	5.3984 ppm	0.5127 ppm
Concentration per Run 1	0.4895 ppm	0.4982 ppm	0.4956 ppm	0.4909 ppm	0.4694 ppm	5.0471 ppm	0.5122 ppm
Concentration per Run 2	0.4915 ppm	0.5004 ppm	0.4981 ppm	0.4925 ppm	0.5198 ppm	5.5407 ppm	0.5115 ppm
Concentration per Run 3	0.4933 ppm	0.5025 ppm	0.4982 ppm	0.4940 ppm	0.5316 ppm	5.6075 ppm	0.5144 ppm
Recovery Percentage 1	98.281 %	100.071 %	99.458 %	98.491 %	101.387 %	107.969 %	102.546 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.3 %	6.5 %	5.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4963 ppm	0.4820 ppm	10.1381 ppm	0.5117 ppm	0.5105 ppm	0.5025 ppm	0.5083 ppm
Concentration per Run 1	0.4619 ppm	0.4788 ppm	9.4681 ppm	0.5093 ppm	0.5093 ppm	0.5002 ppm	0.5091 ppm
Concentration per Run 2	0.5094 ppm	0.4824 ppm	10.3757 ppm	0.5116 ppm	0.5099 ppm	0.5024 ppm	0.5089 ppm
Concentration per Run 3	0.5175 ppm	0.4849 ppm	10.5704 ppm	0.5143 ppm	0.5124 ppm	0.5047 ppm	0.5069 ppm
Recovery Percentage 1	99.256 %	96.404 %	101.381 %	102.347 %	102.103 %	100.491 %	101.664 %
Concentration RSD	6.1 %	0.6 %	5.8 %	0.5 %	0.3 %	0.4 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6127 ppm	0.4926 ppm	0.4905 ppm	0.5077 ppm	0.4943 ppm	0.4984 ppm	0.5025 ppm
Concentration per Run 1	5.5914 ppm	0.4906 ppm	0.4574 ppm	0.5059 ppm	0.4904 ppm	0.4964 ppm	0.5007 ppm
Concentration per Run 2	5.6163 ppm	0.4925 ppm	0.5027 ppm	0.5082 ppm	0.4952 ppm	0.4990 ppm	0.5022 ppm
Concentration per Run 3	5.6302 ppm	0.4946 ppm	0.5112 ppm	0.5091 ppm	0.4973 ppm	0.4997 ppm	0.5046 ppm
Recovery Percentage 1	106.908 %	98.516 %	98.094 %	101.545 %	98.857 %	99.678 %	100.498 %
Concentration RSD	0.4 %	0.4 %	5.9 %	0.3 %	0.7 %	0.3 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5843 %	101.6042 %	102.1016 %	97.5770 %	100.2463 %	100.4842 %
Concentration per Run 1	106.8116 %	101.9492 %	102.1348 %	102.9132 %	100.7191 %	101.2153 %
Concentration per Run 2	97.9997 %	101.3988 %	102.1979 %	96.4299 %	100.2880 %	100.3806 %
Concentration per Run 3	96.9416 %	101.4647 %	101.9722 %	93.3880 %	99.7319 %	99.8567 %
Recovery Percentage 1						
Concentration RSD	5.4 %	0.3 %	0.1 %	5.0 %	0.5 %	0.7 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 7:51:30 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0026 ppm	0.0013 ppm	0.0032 ppm	0.0003 ppm	0.0000 ppm	0.0505 ppm
Concentration per Run 1	0.0001 ppm	-0.0020 ppm	0.0011 ppm	0.0036 ppm	0.0004 ppm	0.0000 ppm	0.0508 ppm
Concentration per Run 2	0.0001 ppm	-0.0022 ppm	0.0022 ppm	0.0031 ppm	0.0001 ppm	0.0000 ppm	0.0421 ppm
Concentration per Run 3	-0.0001 ppm	-0.0036 ppm	0.0006 ppm	0.0029 ppm	0.0005 ppm	0.0000 ppm	0.0587 ppm
Recovery Percentage 1	0.702 %	-2.596 %	26.602 %	10.694 %	3.354 %	0.059 %	50.517 %
Concentration RSD	277.1 %	32.6 %	62.5 %	10.7 %	54.9 %	612.5 %	16.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	-0.0006 ppm	0.0080 ppm	0.0055 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0042 ppm	0.0044 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0012 ppm	0.0493 ppm	0.0063 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0011 ppm	-0.0296 ppm	0.0059 ppm
Recovery Percentage 1	0.099 %	0.606 %	1.509 %	4.947 %	-1.295 %	0.319 %	5.547 %
Concentration RSD	1,220.3 %	78.0 %	48.5 %	33.7 %	131.3 %	496.8 %	17.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0012 ppm	-0.0261 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	-0.0012 ppm
Concentration per Run 1	-0.0003 ppm	0.0012 ppm	-0.0236 ppm	-0.0002 ppm	0.0005 ppm	0.0009 ppm	-0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0014 ppm	-0.0315 ppm	0.0003 ppm	0.0000 ppm	0.0016 ppm	-0.0007 ppm
Concentration per Run 3	-0.0003 ppm	0.0010 ppm	-0.0231 ppm	0.0004 ppm	0.0007 ppm	0.0008 ppm	-0.0013 ppm
Recovery Percentage 1	-2.329 %	2.380 %	-1.305 %	0.701 %	3.785 %	2.211 %	-11.616 %
Concentration RSD	38.8 %	13.0 %	18.0 %	184.0 %	103.2 %	39.4 %	36.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0008 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0010 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	-0.0007 ppm	0.0003 ppm	0.0002 ppm	-0.0005 ppm	0.0011 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	0.0014 ppm	-0.0003 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.0017 ppm	-0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0019 ppm	-0.0003 ppm	-0.0004 ppm
Recovery Percentage 1	0.156 %	-0.571 %	1.757 %	-2.160 %	4.896 %	-3.459 %	-7.308 %
Concentration RSD	170.3 %	210.4 %	61.7 %	160.5 %	97.3 %	47.5 %	26.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.9662 %	103.0030 %	102.8510 %	76.5918 %	96.3587 %	94.8954 %
Concentration per Run 1	100.2601 %	103.0285 %	103.0819 %	75.6286 %	96.0712 %	94.7487 %
Concentration per Run 2	96.7466 %	103.2904 %	102.9020 %	76.3195 %	96.1917 %	95.1772 %
Concentration per Run 3	96.8920 %	102.6901 %	102.5691 %	77.8273 %	96.8130 %	94.7602 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.3 %	0.3 %	1.5 %	0.4 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935421-1 WG1935421
Analysis started at: 6/19/2024 8:13:52 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0068 ppm	-0.0005 ppm	0.0034 ppm	0.0004 ppm	0.0001 ppm	0.0258 ppm
Concentration per Run 1	0.0008 ppm	0.0138 ppm	0.0002 ppm	0.0031 ppm	0.0005 ppm	0.0001 ppm	0.0217 ppm
Concentration per Run 2	0.0008 ppm	0.0195 ppm	-0.0007 ppm	0.0036 ppm	0.0003 ppm	0.0001 ppm	0.0312 ppm
Concentration per Run 3	0.0000 ppm	-0.0130 ppm	-0.0010 ppm	0.0034 ppm	0.0003 ppm	0.0001 ppm	0.0246 ppm
Recovery Percentage 1	7.402 %	6.790 %	-9.573 %	11.271 %	3.936 %	1.419 %	25.829 %
Concentration RSD	87.1 %	255.5 %	131.5 %	6.6 %	33.7 %	14.9 %	18.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0021 ppm	0.0020 ppm	0.0864 ppm	0.0064 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0019 ppm	0.0047 ppm	0.0528 ppm	0.0069 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm	0.0016 ppm	0.0853 ppm	0.0059 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0024 ppm	-0.0004 ppm	0.1211 ppm	0.0065 ppm
Recovery Percentage 1	1.215 %	-0.487 %	1.522 %	21.037 %	3.935 %	3.455 %	6.399 %
Concentration RSD	57.2 %	66.6 %	97.0 %	10.9 %	132.0 %	39.6 %	7.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.4977 ppm	0.0001 ppm	0.0007 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.4745 ppm	0.0000 ppm	0.0014 ppm	0.0012 ppm	0.0013 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.5083 ppm	0.0002 ppm	0.0008 ppm	0.0007 ppm	0.0042 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.5104 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0014 ppm
Recovery Percentage 1	-1.015 %	0.339 %	24.886 %	0.263 %	7.052 %	1.689 %	13.336 %
Concentration RSD	253.4 %	56.2 %	4.0 %	234.8 %	100.8 %	35.2 %	209.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0080 ppm	0.0006 ppm	0.0001 ppm	-0.0003 ppm	-0.0013 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	0.0081 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0011 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 2	0.0071 ppm	0.0005 ppm	0.0002 ppm	-0.0002 ppm	-0.0018 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0087 ppm	0.0007 ppm	0.0001 ppm	-0.0006 ppm	-0.0011 ppm	-0.0001 ppm	0.0007 ppm
Recovery Percentage 1	1.594 %	1.135 %	0.816 %	-2.696 %	-6.722 %	-2.183 %	15.201 %
Concentration RSD	9.6 %	17.5 %	229.0 %	113.2 %	30.8 %	42.4 %	12.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.3482 %	101.8711 %	101.7290 %	96.6371 %	97.1252 %	98.6283 %
Concentration per Run 1	100.6318 %	101.6430 %	102.4869 %	101.1402 %	97.7061 %	98.5654 %
Concentration per Run 2	97.4361 %	101.5061 %	101.2928 %	96.0016 %	97.0201 %	98.4780 %
Concentration per Run 3	96.9765 %	102.4641 %	101.4074 %	92.7694 %	96.6493 %	98.8415 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.5 %	0.6 %	4.4 %	0.6 %	0.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935421-2 WG1935421
Analysis started at: 6/19/2024 8:20:12 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0505 ppm	2.1962 ppm	0.1199 ppm	0.9464 ppm	2.1250 ppm	0.0526 ppm	10.4287 ppm
Concentration per Run 1	0.0502 ppm	2.2716 ppm	0.1192 ppm	0.9388 ppm	2.2075 ppm	0.0547 ppm	10.8364 ppm
Concentration per Run 2	0.0508 ppm	2.1818 ppm	0.1208 ppm	0.9509 ppm	2.0964 ppm	0.0517 ppm	10.2843 ppm
Concentration per Run 3	0.0505 ppm	2.1351 ppm	0.1196 ppm	0.9494 ppm	2.0710 ppm	0.0512 ppm	10.1655 ppm
Concentration RSD	0.6 %	3.2 %	0.7 %	0.7 %	3.4 %	3.6 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0516 ppm	0.4868 ppm	0.1983 ppm	0.2498 ppm	1.0482 ppm	11.0324 ppm	9.6842 ppm
Concentration per Run 1	0.0513 ppm	0.4827 ppm	0.1997 ppm	0.2507 ppm	1.0882 ppm	11.4691 ppm	9.7231 ppm
Concentration per Run 2	0.0519 ppm	0.4889 ppm	0.1979 ppm	0.2496 ppm	1.0401 ppm	10.8518 ppm	9.6594 ppm
Concentration per Run 3	0.0518 ppm	0.4888 ppm	0.1972 ppm	0.2490 ppm	1.0165 ppm	10.7763 ppm	9.6701 ppm
Concentration RSD	0.7 %	0.7 %	0.6 %	0.4 %	3.5 %	3.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5140 ppm	0.9798 ppm	11.1693 ppm	0.4829 ppm	0.5370 ppm	0.4935 ppm	0.1187 ppm
Concentration per Run 1	0.5354 ppm	0.9676 ppm	11.6335 ppm	0.4791 ppm	0.5337 ppm	0.4881 ppm	0.1198 ppm
Concentration per Run 2	0.5074 ppm	0.9838 ppm	11.0198 ppm	0.4842 ppm	0.5389 ppm	0.4984 ppm	0.1179 ppm
Concentration per Run 3	0.4993 ppm	0.9879 ppm	10.8547 ppm	0.4853 ppm	0.5383 ppm	0.4939 ppm	0.1186 ppm
Concentration RSD	3.7 %	1.1 %	3.7 %	0.7 %	0.5 %	1.1 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0196 ppm	0.9613 ppm	1.0006 ppm	0.9900 ppm	0.1165 ppm	0.4970 ppm	0.4812 ppm
Concentration per Run 1	1.0108 ppm	0.9533 ppm	1.0403 ppm	0.9932 ppm	0.1151 ppm	0.4987 ppm	0.4776 ppm
Concentration per Run 2	1.0228 ppm	0.9672 ppm	0.9867 ppm	0.9871 ppm	0.1178 ppm	0.4977 ppm	0.4830 ppm
Concentration per Run 3	1.0253 ppm	0.9634 ppm	0.9750 ppm	0.9897 ppm	0.1166 ppm	0.4945 ppm	0.4831 ppm
Concentration RSD	0.8 %	0.7 %	3.5 %	0.3 %	1.2 %	0.4 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	94.4609 %	101.3952 %	100.4911 %	81.6324 %	97.7061 %	98.9351 %
Concentration per Run 1	90.6551 %	101.0243 %	100.9480 %	79.1446 %	98.4232 %	98.3408 %
Concentration per Run 2	95.9430 %	101.5926 %	100.2508 %	82.3182 %	97.3104 %	99.2342 %
Concentration per Run 3	96.7846 %	101.5685 %	100.2745 %	83.4345 %	97.3845 %	99.2304 %
Concentration RSD	3.5 %	0.3 %	0.4 %	2.7 %	0.6 %	0.5 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: TES MIX
Analysis started at: 6/19/2024 8:26:19 AM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0024 ppm	0.0003 ppm	0.9251 ppm	-0.0004 ppm	-0.0001 ppm	9.0005 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.9302 ppm	-0.0005 ppm	-0.0002 ppm	8.4218 ppm
Concentration per Run 2	0.0005 ppm	-0.0016 ppm	0.0004 ppm	0.9253 ppm	-0.0002 ppm	-0.0001 ppm	9.2320 ppm
Concentration per Run 3	0.0005 ppm	0.0079 ppm	0.0006 ppm	0.9198 ppm	-0.0004 ppm	-0.0002 ppm	9.3476 ppm
Concentration RSD	48.0 %	200.5 %	98.9 %	0.6 %	37.2 %	30.6 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0012 ppm	0.0011 ppm	9.6392 ppm	9.7413 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm	-0.0010 ppm	9.0125 ppm	9.7831 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	-0.0007 ppm	0.0013 ppm	-0.0008 ppm	9.8508 ppm	9.7307 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0009 ppm	0.0050 ppm	10.0544 ppm	9.7101 ppm
Concentration RSD	34.3 %	202.4 %	81.7 %	24.0 %	318.5 %	5.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.8776 ppm	9.1662 ppm	0.0000 ppm	-0.0003 ppm	0.0078 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.8732 ppm	8.5476 ppm	0.0002 ppm	-0.0008 ppm	0.0078 ppm	-0.0016 ppm
Concentration per Run 2	-0.0003 ppm	0.8773 ppm	9.3883 ppm	-0.0001 ppm	0.0005 ppm	0.0074 ppm	-0.0014 ppm
Concentration per Run 3	-0.0005 ppm	0.8822 ppm	9.5626 ppm	-0.0002 ppm	-0.0007 ppm	0.0083 ppm	-0.0011 ppm
Concentration RSD	80.7 %	0.5 %	5.9 %	690.9 %	203.8 %	5.8 %	17.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0047 ppm	0.9223 ppm	0.8796 ppm	0.9794 ppm	-0.0009 ppm	-0.0007 ppm	-0.0007 ppm
Concentration per Run 1	0.0051 ppm	0.9266 ppm	0.8236 ppm	0.9843 ppm	-0.0005 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 2	0.0050 ppm	0.9228 ppm	0.8995 ppm	0.9784 ppm	-0.0014 ppm	-0.0007 ppm	-0.0007 ppm
Concentration per Run 3	0.0039 ppm	0.9176 ppm	0.9158 ppm	0.9754 ppm	-0.0008 ppm	-0.0006 ppm	-0.0007 ppm
Concentration RSD	14.5 %	0.5 %	5.6 %	0.5 %	48.8 %	14.6 %	9.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.3267 %	101.7244 %	101.5627 %	77.8670 %	97.8634 %	95.4997 %
Concentration per Run 1	108.8634 %	101.5370 %	101.5553 %	79.1470 %	97.3725 %	94.7794 %
Concentration per Run 2	99.4818 %	101.6389 %	101.7961 %	76.6117 %	97.8493 %	95.5569 %
Concentration per Run 3	98.6348 %	101.9972 %	101.3367 %	77.8424 %	98.3683 %	96.1629 %
Concentration RSD	5.5 %	0.2 %	0.2 %	1.6 %	0.5 %	0.7 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: TEST IPS
Analysis started at: 6/19/2024 8:32:34 AM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0641 ppm	2.1645 ppm	0.0007 ppm	0.0027 ppm	2.1699 ppm	0.0540 ppm	0.0000 ppm
Concentration per Run 1	0.0647 ppm	2.1942 ppm	0.0019 ppm	0.0033 ppm	2.2029 ppm	0.0550 ppm	0.0054 ppm
Concentration per Run 2	0.0639 ppm	2.1685 ppm	-0.0010 ppm	0.0025 ppm	2.1766 ppm	0.0541 ppm	-0.0076 ppm
Concentration per Run 3	0.0637 ppm	2.1308 ppm	0.0013 ppm	0.0022 ppm	2.1302 ppm	0.0530 ppm	0.0022 ppm
Concentration RSD	0.8 %	1.5 %	204.4 %	21.4 %	1.7 %	1.8 %	27,964.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0571 ppm	0.5576 ppm	0.2432 ppm	0.3083 ppm	1.0246 ppm	0.0063 ppm	-0.0004 ppm
Concentration per Run 1	0.0586 ppm	0.5718 ppm	0.2459 ppm	0.3114 ppm	1.0371 ppm	-0.0104 ppm	0.0005 ppm
Concentration per Run 2	0.0570 ppm	0.5564 ppm	0.2427 ppm	0.3080 ppm	1.0250 ppm	-0.0171 ppm	0.0016 ppm
Concentration per Run 3	0.0558 ppm	0.5446 ppm	0.2410 ppm	0.3054 ppm	1.0116 ppm	0.0465 ppm	-0.0031 ppm
Concentration RSD	2.4 %	2.4 %	1.0 %	1.0 %	1.2 %	551.9 %	670.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5521 ppm	0.0028 ppm	-0.0572 ppm	0.5752 ppm	0.0006 ppm	0.4863 ppm	-0.0012 ppm
Concentration per Run 1	0.5622 ppm	0.0030 ppm	-0.0590 ppm	0.5899 ppm	0.0009 ppm	0.4864 ppm	0.0004 ppm
Concentration per Run 2	0.5536 ppm	0.0027 ppm	-0.0538 ppm	0.5739 ppm	0.0001 ppm	0.4860 ppm	-0.0011 ppm
Concentration per Run 3	0.5405 ppm	0.0026 ppm	-0.0589 ppm	0.5618 ppm	0.0008 ppm	0.4866 ppm	-0.0027 ppm
Concentration RSD	2.0 %	6.5 %	5.2 %	2.5 %	75.4 %	0.1 %	131.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0007 ppm	0.0013 ppm	0.0001 ppm	-0.0003 ppm	-0.0024 ppm	0.5913 ppm	0.5790 ppm
Concentration per Run 1	-0.0007 ppm	0.0010 ppm	-0.0002 ppm	0.0003 ppm	-0.0020 ppm	0.5965 ppm	0.5935 ppm
Concentration per Run 2	-0.0006 ppm	0.0016 ppm	0.0001 ppm	-0.0008 ppm	-0.0032 ppm	0.5917 ppm	0.5781 ppm
Concentration per Run 3	-0.0008 ppm	0.0013 ppm	0.0002 ppm	-0.0002 ppm	-0.0020 ppm	0.5858 ppm	0.5654 ppm
Concentration RSD	14.8 %	23.1 %	322.9 %	224.2 %	30.2 %	0.9 %	2.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.2499 %	106.9537 %	106.1301 %	67.7576 %	94.8867 %	87.4754 %
Concentration per Run 1	97.2070 %	106.7423 %	106.4419 %	66.3617 %	92.5850 %	86.3737 %
Concentration per Run 2	97.5857 %	107.0038 %	106.3351 %	67.5401 %	95.1260 %	87.3209 %
Concentration per Run 3	99.9570 %	107.1148 %	105.6133 %	69.3710 %	96.9492 %	88.7315 %
Concentration RSD	1.5 %	0.2 %	0.4 %	2.2 %	2.3 %	1.4 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-02 WG1935421
Analysis started at: 6/19/2024 8:38:46 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0636 ppm	0.0009 ppm	0.0201 ppm	0.1137 ppm	0.0001 ppm	165.8028 ppm
Concentration per Run 1	0.0003 ppm	0.0637 ppm	0.0020 ppm	0.0202 ppm	0.1154 ppm	0.0001 ppm	167.9682 ppm
Concentration per Run 2	0.0010 ppm	0.0748 ppm	0.0008 ppm	0.0205 ppm	0.1130 ppm	0.0000 ppm	164.6088 ppm
Concentration per Run 3	-0.0001 ppm	0.0523 ppm	0.0000 ppm	0.0197 ppm	0.1127 ppm	0.0001 ppm	164.8316 ppm
Concentration RSD	132.8 %	17.8 %	106.4 %	2.2 %	1.3 %	70.2 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.0028 ppm	0.0010 ppm	0.0074 ppm	0.2221 ppm	2.0293 ppm	6.3589 ppm
Concentration per Run 1	0.0014 ppm	0.0028 ppm	0.0011 ppm	0.0074 ppm	0.2248 ppm	2.0644 ppm	6.3629 ppm
Concentration per Run 2	0.0014 ppm	0.0027 ppm	0.0012 ppm	0.0073 ppm	0.2185 ppm	2.0341 ppm	6.3487 ppm
Concentration per Run 3	0.0014 ppm	0.0028 ppm	0.0006 ppm	0.0074 ppm	0.2231 ppm	1.9894 ppm	6.3652 ppm
Concentration RSD	0.7 %	1.3 %	36.1 %	0.7 %	1.5 %	1.9 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2543 ppm	0.0022 ppm	1.4643 ppm	0.0145 ppm	0.0606 ppm	0.0051 ppm	-0.0031 ppm
Concentration per Run 1	0.2578 ppm	0.0027 ppm	1.4892 ppm	0.0143 ppm	0.0610 ppm	0.0065 ppm	-0.0019 ppm
Concentration per Run 2	0.2519 ppm	0.0022 ppm	1.4459 ppm	0.0149 ppm	0.0597 ppm	0.0046 ppm	-0.0029 ppm
Concentration per Run 3	0.2532 ppm	0.0018 ppm	1.4578 ppm	0.0144 ppm	0.0610 ppm	0.0041 ppm	-0.0044 ppm
Concentration RSD	1.2 %	19.6 %	1.5 %	2.1 %	1.2 %	24.5 %	41.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.9036 ppm	0.0020 ppm	0.2895 ppm	0.0021 ppm	-0.0021 ppm	0.0009 ppm	0.4787 ppm
Concentration per Run 1	7.9196 ppm	0.0024 ppm	0.2935 ppm	0.0017 ppm	-0.0030 ppm	0.0006 ppm	0.4794 ppm
Concentration per Run 2	7.8765 ppm	0.0019 ppm	0.2870 ppm	0.0020 ppm	-0.0017 ppm	0.0010 ppm	0.4776 ppm
Concentration per Run 3	7.9147 ppm	0.0018 ppm	0.2879 ppm	0.0025 ppm	-0.0014 ppm	0.0010 ppm	0.4789 ppm
Concentration RSD	0.3 %	14.6 %	1.2 %	19.3 %	41.0 %	25.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	96.4416 %	99.1957 %	98.0041 %	83.3648 %	93.1226 %	96.1464 %
Concentration per Run 1	95.4101 %	99.2054 %	97.8182 %	82.6619 %	92.8470 %	96.1684 %
Concentration per Run 2	97.3534 %	99.0877 %	98.0527 %	83.9209 %	93.4184 %	96.0852 %
Concentration per Run 3	96.5613 %	99.2940 %	98.1413 %	83.5115 %	93.1026 %	96.1854 %
Concentration RSD	1.0 %	0.1 %	0.2 %	0.8 %	0.3 %	0.1 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-01 WG1935421
Analysis started at: 6/19/2024 8:45:01 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0682 ppm	0.0017 ppm	0.0177 ppm	0.1087 ppm	0.0000 ppm	162.1508 ppm
Concentration per Run 1	0.0001 ppm	0.0499 ppm	0.0042 ppm	0.0178 ppm	0.1058 ppm	-0.0001 ppm	158.6159 ppm
Concentration per Run 2	0.0000 ppm	0.0713 ppm	-0.0002 ppm	0.0176 ppm	0.1088 ppm	0.0000 ppm	162.0205 ppm
Concentration per Run 3	0.0003 ppm	0.0836 ppm	0.0011 ppm	0.0178 ppm	0.1115 ppm	-0.0001 ppm	165.8159 ppm
Concentration RSD	106.5 %	25.0 %	131.7 %	0.8 %	2.6 %	86.2 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.0029 ppm	0.0009 ppm	0.0076 ppm	0.1624 ppm	1.9725 ppm	6.5991 ppm
Concentration per Run 1	0.0014 ppm	0.0028 ppm	0.0010 ppm	0.0074 ppm	0.1579 ppm	1.9096 ppm	6.5577 ppm
Concentration per Run 2	0.0013 ppm	0.0030 ppm	0.0011 ppm	0.0076 ppm	0.1637 ppm	1.9956 ppm	6.6184 ppm
Concentration per Run 3	0.0014 ppm	0.0029 ppm	0.0008 ppm	0.0080 ppm	0.1655 ppm	2.0122 ppm	6.6211 ppm
Concentration RSD	3.0 %	4.6 %	16.1 %	4.2 %	2.4 %	2.8 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2416 ppm	0.0018 ppm	1.5376 ppm	0.1040 ppm	0.0739 ppm	0.0016 ppm	-0.0004 ppm
Concentration per Run 1	0.2353 ppm	0.0019 ppm	1.4918 ppm	0.1041 ppm	0.0741 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 2	0.2420 ppm	0.0017 ppm	1.5448 ppm	0.1033 ppm	0.0732 ppm	0.0023 ppm	-0.0021 ppm
Concentration per Run 3	0.2476 ppm	0.0020 ppm	1.5762 ppm	0.1045 ppm	0.0745 ppm	0.0015 ppm	-0.0002 ppm
Concentration RSD	2.6 %	8.7 %	2.8 %	0.6 %	0.9 %	39.5 %	367.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.9869 ppm	0.0015 ppm	0.2861 ppm	0.0025 ppm	-0.0009 ppm	0.0012 ppm	0.5175 ppm
Concentration per Run 1	7.9931 ppm	0.0015 ppm	0.2795 ppm	0.0026 ppm	-0.0001 ppm	0.0014 ppm	0.5185 ppm
Concentration per Run 2	7.9350 ppm	0.0012 ppm	0.2861 ppm	0.0024 ppm	-0.0010 ppm	0.0014 ppm	0.5138 ppm
Concentration per Run 3	8.0325 ppm	0.0017 ppm	0.2927 ppm	0.0024 ppm	-0.0017 ppm	0.0009 ppm	0.5204 ppm
Concentration RSD	0.6 %	15.6 %	2.3 %	5.8 %	85.5 %	23.5 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.4465 %	99.2348 %	98.2549 %	83.3010 %	93.5374 %	95.9431 %
Concentration per Run 1	100.7130 %	99.7700 %	98.2738 %	83.5310 %	93.2679 %	96.3947 %
Concentration per Run 2	98.6766 %	98.8114 %	98.7163 %	84.0044 %	94.2786 %	95.7689 %
Concentration per Run 3	95.9499 %	99.1232 %	97.7745 %	82.3676 %	93.0658 %	95.6657 %
Concentration RSD	2.4 %	0.5 %	0.5 %	1.0 %	0.7 %	0.4 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935421-3 WG1935421
Analysis started at: 6/19/2024 8:51:14 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0482 ppm	1.9455 ppm	0.1189 ppm	0.9366 ppm	1.9345 ppm	0.0462 ppm	154.7690 ppm
Concentration per Run 1	0.0482 ppm	1.8414 ppm	0.1184 ppm	0.9302 ppm	1.8240 ppm	0.0435 ppm	145.9647 ppm
Concentration per Run 2	0.0482 ppm	1.9633 ppm	0.1191 ppm	0.9324 ppm	1.9751 ppm	0.0472 ppm	158.0783 ppm
Concentration per Run 3	0.0481 ppm	2.0319 ppm	0.1191 ppm	0.9473 ppm	2.0045 ppm	0.0479 ppm	160.2640 ppm
Concentration RSD	0.1 %	5.0 %	0.3 %	1.0 %	5.0 %	5.1 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0501 ppm	0.4619 ppm	0.1871 ppm	0.2437 ppm	1.0485 ppm	11.3379 ppm	14.9651 ppm
Concentration per Run 1	0.0498 ppm	0.4585 ppm	0.1874 ppm	0.2440 ppm	0.9836 ppm	10.6783 ppm	15.0177 ppm
Concentration per Run 2	0.0499 ppm	0.4603 ppm	0.1870 ppm	0.2438 ppm	1.0712 ppm	11.5761 ppm	14.9219 ppm
Concentration per Run 3	0.0506 ppm	0.4669 ppm	0.1868 ppm	0.2432 ppm	1.0907 ppm	11.7592 ppm	14.9558 ppm
Concentration RSD	0.9 %	1.0 %	0.2 %	0.2 %	5.4 %	5.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6560 ppm	0.9439 ppm	10.7796 ppm	0.5471 ppm	0.5712 ppm	0.4807 ppm	0.1109 ppm
Concentration per Run 1	0.6176 ppm	0.9330 ppm	10.1569 ppm	0.5435 ppm	0.5681 ppm	0.4769 ppm	0.1105 ppm
Concentration per Run 2	0.6720 ppm	0.9399 ppm	11.0038 ppm	0.5453 ppm	0.5688 ppm	0.4777 ppm	0.1105 ppm
Concentration per Run 3	0.6782 ppm	0.9590 ppm	11.1781 ppm	0.5526 ppm	0.5768 ppm	0.4874 ppm	0.1118 ppm
Concentration RSD	5.1 %	1.4 %	5.1 %	0.9 %	0.8 %	1.2 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.3639 ppm	0.9230 ppm	1.1253 ppm	0.9373 ppm	0.1095 ppm	0.4720 ppm	0.9259 ppm
Concentration per Run 1	8.3029 ppm	0.9156 ppm	1.0602 ppm	0.9386 ppm	0.1090 ppm	0.4748 ppm	0.9195 ppm
Concentration per Run 2	8.3308 ppm	0.9197 ppm	1.1494 ppm	0.9352 ppm	0.1107 ppm	0.4706 ppm	0.9213 ppm
Concentration per Run 3	8.4580 ppm	0.9338 ppm	1.1663 ppm	0.9382 ppm	0.1088 ppm	0.4706 ppm	0.9369 ppm
Concentration RSD	1.0 %	1.0 %	5.1 %	0.2 %	0.9 %	0.5 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.9583 %	98.5713 %	97.7683 %	87.2819 %	93.4506 %	96.1632 %
Concentration per Run 1	106.2805 %	98.4936 %	98.0134 %	90.2770 %	93.9635 %	95.6832 %
Concentration per Run 2	98.7591 %	98.5042 %	98.1692 %	86.1859 %	94.0020 %	96.3838 %
Concentration per Run 3	97.8351 %	98.7161 %	97.1224 %	85.3829 %	92.3863 %	96.4226 %
Concentration RSD	4.6 %	0.1 %	0.6 %	3.0 %	1.0 %	0.4 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935421-4 WG1935421
Analysis started at: 6/19/2024 8:57:19 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0768 ppm	0.0022 ppm	0.0171 ppm	0.1034 ppm	0.0000 ppm	154.3839 ppm
Concentration per Run 1	-0.0003 ppm	0.0795 ppm	0.0025 ppm	0.0170 ppm	0.1005 ppm	0.0000 ppm	149.7075 ppm
Concentration per Run 2	-0.0005 ppm	0.0746 ppm	0.0027 ppm	0.0169 ppm	0.1046 ppm	0.0001 ppm	155.9763 ppm
Concentration per Run 3	0.0003 ppm	0.0762 ppm	0.0015 ppm	0.0174 ppm	0.1051 ppm	0.0001 ppm	157.4679 ppm
Concentration RSD	271.5 %	3.3 %	28.9 %	1.6 %	2.4 %	109.0 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0013 ppm	0.0026 ppm	0.0008 ppm	0.0071 ppm	0.1594 ppm	1.8712 ppm	6.2777 ppm
Concentration per Run 1	0.0013 ppm	0.0028 ppm	0.0010 ppm	0.0070 ppm	0.1539 ppm	1.8112 ppm	6.2773 ppm
Concentration per Run 2	0.0013 ppm	0.0024 ppm	0.0009 ppm	0.0071 ppm	0.1595 ppm	1.9206 ppm	6.2690 ppm
Concentration per Run 3	0.0013 ppm	0.0028 ppm	0.0006 ppm	0.0071 ppm	0.1647 ppm	1.8818 ppm	6.2868 ppm
Concentration RSD	0.2 %	7.1 %	23.6 %	1.2 %	3.4 %	3.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2300 ppm	0.0031 ppm	1.4512 ppm	0.1003 ppm	0.0709 ppm	0.0016 ppm	-0.0005 ppm
Concentration per Run 1	0.2231 ppm	0.0033 ppm	1.4147 ppm	0.1009 ppm	0.0701 ppm	0.0014 ppm	-0.0024 ppm
Concentration per Run 2	0.2322 ppm	0.0030 ppm	1.4528 ppm	0.0993 ppm	0.0705 ppm	0.0019 ppm	0.0012 ppm
Concentration per Run 3	0.2347 ppm	0.0029 ppm	1.4860 ppm	0.1008 ppm	0.0720 ppm	0.0015 ppm	-0.0003 ppm
Concentration RSD	2.6 %	7.2 %	2.5 %	0.9 %	1.4 %	17.1 %	346.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.5360 ppm	0.0006 ppm	0.2725 ppm	0.0022 ppm	-0.0011 ppm	0.0012 ppm	0.5009 ppm
Concentration per Run 1	7.5689 ppm	0.0005 ppm	0.2644 ppm	0.0017 ppm	-0.0005 ppm	0.0008 ppm	0.5030 ppm
Concentration per Run 2	7.4866 ppm	0.0006 ppm	0.2753 ppm	0.0027 ppm	-0.0017 ppm	0.0013 ppm	0.4976 ppm
Concentration per Run 3	7.5526 ppm	0.0006 ppm	0.2779 ppm	0.0021 ppm	-0.0010 ppm	0.0014 ppm	0.5020 ppm
Concentration RSD	0.6 %	13.3 %	2.6 %	22.0 %	53.9 %	29.9 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7076 %	99.5856 %	98.2247 %	86.7104 %	93.5418 %	97.5774 %
Concentration per Run 1	103.1138 %	99.5933 %	98.5215 %	87.0964 %	93.2443 %	97.6975 %
Concentration per Run 2	100.0601 %	99.6389 %	97.9941 %	86.7803 %	93.9880 %	97.5073 %
Concentration per Run 3	98.9490 %	99.5246 %	98.1585 %	86.2546 %	93.3931 %	97.5274 %
Concentration RSD	2.1 %	0.1 %	0.3 %	0.5 %	0.4 %	0.1 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-03 WG1935421
Analysis started at: 6/19/2024 9:03:34 AM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0587 ppm	0.0022 ppm	0.0148 ppm	0.1026 ppm	0.0000 ppm	153.6715 ppm
Concentration per Run 1	0.0001 ppm	0.0546 ppm	0.0036 ppm	0.0151 ppm	0.0980 ppm	0.0000 ppm	147.4489 ppm
Concentration per Run 2	0.0006 ppm	0.0567 ppm	0.0010 ppm	0.0145 ppm	0.1043 ppm	0.0000 ppm	156.4173 ppm
Concentration per Run 3	-0.0003 ppm	0.0648 ppm	0.0021 ppm	0.0149 ppm	0.1055 ppm	0.0001 ppm	157.1483 ppm
Concentration RSD	298.1 %	9.2 %	60.3 %	2.1 %	3.9 %	232.1 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.0025 ppm	0.0009 ppm	0.0037 ppm	0.1528 ppm	1.8750 ppm	6.2425 ppm
Concentration per Run 1	0.0010 ppm	0.0024 ppm	0.0008 ppm	0.0037 ppm	0.1463 ppm	1.7590 ppm	6.2388 ppm
Concentration per Run 2	0.0011 ppm	0.0026 ppm	0.0008 ppm	0.0037 ppm	0.1565 ppm	1.9411 ppm	6.2324 ppm
Concentration per Run 3	0.0011 ppm	0.0026 ppm	0.0012 ppm	0.0037 ppm	0.1555 ppm	1.9248 ppm	6.2563 ppm
Concentration RSD	3.7 %	4.7 %	27.8 %	0.4 %	3.7 %	5.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2228 ppm	0.0014 ppm	1.3329 ppm	0.0148 ppm	0.1224 ppm	0.0039 ppm	-0.0008 ppm
Concentration per Run 1	0.2124 ppm	0.0015 ppm	1.2747 ppm	0.0144 ppm	0.1208 ppm	0.0023 ppm	0.0002 ppm
Concentration per Run 2	0.2269 ppm	0.0014 ppm	1.3672 ppm	0.0149 ppm	0.1225 ppm	0.0052 ppm	-0.0019 ppm
Concentration per Run 3	0.2289 ppm	0.0013 ppm	1.3567 ppm	0.0150 ppm	0.1239 ppm	0.0042 ppm	-0.0008 ppm
Concentration RSD	4.0 %	4.8 %	3.8 %	2.3 %	1.3 %	37.8 %	125.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.0651 ppm	0.0004 ppm	0.2647 ppm	0.0019 ppm	-0.0015 ppm	0.0006 ppm	0.4308 ppm
Concentration per Run 1	6.9962 ppm	0.0006 ppm	0.2532 ppm	0.0021 ppm	-0.0014 ppm	0.0006 ppm	0.4266 ppm
Concentration per Run 2	7.1390 ppm	-0.0004 ppm	0.2694 ppm	0.0022 ppm	-0.0009 ppm	0.0009 ppm	0.4350 ppm
Concentration per Run 3	7.0601 ppm	0.0009 ppm	0.2715 ppm	0.0015 ppm	-0.0021 ppm	0.0002 ppm	0.4309 ppm
Concentration RSD	1.0 %	188.6 %	3.8 %	20.7 %	39.9 %	56.0 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.8612 %	99.6496 %	98.8765 %	87.1672 %	93.4490 %	97.0119 %
Concentration per Run 1	104.8544 %	99.9638 %	98.9600 %	88.4043 %	94.4110 %	97.2660 %
Concentration per Run 2	98.6275 %	99.2760 %	98.9198 %	86.4324 %	92.5787 %	96.8655 %
Concentration per Run 3	99.1017 %	99.7091 %	98.7496 %	86.6649 %	93.3574 %	96.9041 %
Concentration RSD	3.4 %	0.3 %	0.1 %	1.2 %	1.0 %	0.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-04 WG1935421
Analysis started at: 6/19/2024 9:09:49 AM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.2505 ppm	0.0026 ppm	0.0141 ppm	0.1243 ppm	0.0001 ppm	132.4338 ppm
Concentration per Run 1	-0.0003 ppm	0.2439 ppm	0.0025 ppm	0.0143 ppm	0.1250 ppm	0.0002 ppm	132.9390 ppm
Concentration per Run 2	0.0003 ppm	0.2515 ppm	0.0026 ppm	0.0142 ppm	0.1242 ppm	0.0001 ppm	132.2029 ppm
Concentration per Run 3	0.0003 ppm	0.2562 ppm	0.0026 ppm	0.0140 ppm	0.1237 ppm	0.0001 ppm	132.1594 ppm
Concentration RSD	270.7 %	2.5 %	3.5 %	1.1 %	0.5 %	32.7 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0024 ppm	0.0026 ppm	0.0024 ppm	0.0024 ppm	1.7801 ppm	1.5398 ppm	5.3483 ppm
Concentration per Run 1	0.0024 ppm	0.0024 ppm	0.0025 ppm	0.0026 ppm	1.7849 ppm	1.5376 ppm	5.4062 ppm
Concentration per Run 2	0.0023 ppm	0.0026 ppm	0.0019 ppm	0.0023 ppm	1.7771 ppm	1.5488 ppm	5.3262 ppm
Concentration per Run 3	0.0024 ppm	0.0028 ppm	0.0027 ppm	0.0023 ppm	1.7782 ppm	1.5331 ppm	5.3125 ppm
Concentration RSD	2.3 %	8.5 %	15.9 %	5.5 %	0.2 %	0.5 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3044 ppm	0.0006 ppm	1.1697 ppm	0.0135 ppm	0.3240 ppm	0.0012 ppm	-0.0009 ppm
Concentration per Run 1	0.3055 ppm	0.0009 ppm	1.1841 ppm	0.0137 ppm	0.3244 ppm	0.0011 ppm	-0.0018 ppm
Concentration per Run 2	0.3034 ppm	0.0008 ppm	1.1625 ppm	0.0136 ppm	0.3235 ppm	0.0018 ppm	-0.0006 ppm
Concentration per Run 3	0.3043 ppm	0.0003 ppm	1.1625 ppm	0.0133 ppm	0.3242 ppm	0.0009 ppm	-0.0004 ppm
Concentration RSD	0.3 %	52.0 %	1.1 %	1.7 %	0.1 %	38.3 %	82.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.2933 ppm	0.0010 ppm	0.2370 ppm	0.0029 ppm	-0.0014 ppm	0.0008 ppm	0.9597 ppm
Concentration per Run 1	11.3065 ppm	0.0010 ppm	0.2386 ppm	0.0029 ppm	-0.0018 ppm	0.0008 ppm	0.9613 ppm
Concentration per Run 2	11.2873 ppm	0.0012 ppm	0.2367 ppm	0.0032 ppm	-0.0012 ppm	0.0008 ppm	0.9582 ppm
Concentration per Run 3	11.2860 ppm	0.0010 ppm	0.2359 ppm	0.0027 ppm	-0.0012 ppm	0.0008 ppm	0.9595 ppm
Concentration RSD	0.1 %	9.8 %	0.6 %	8.0 %	25.9 %	6.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.3232 %	100.6508 %	99.5367 %	84.4405 %	95.1088 %	98.0736 %
Concentration per Run 1	98.3128 %	100.0874 %	99.6021 %	83.9217 %	95.0066 %	97.2700 %
Concentration per Run 2	98.2757 %	101.4889 %	99.4943 %	84.8846 %	95.1700 %	98.4047 %
Concentration per Run 3	98.3810 %	100.3760 %	99.5137 %	84.5151 %	95.1499 %	98.5461 %
Concentration RSD	0.1 %	0.7 %	0.1 %	0.6 %	0.1 %	0.7 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 9:15:59 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5063 ppm	0.5055 ppm	0.4871 ppm	0.4871 ppm	0.4982 ppm	0.5036 ppm	0.4959 ppm
Concentration per Run 1	0.5057 ppm	0.4940 ppm	0.4894 ppm	0.4868 ppm	0.4950 ppm	0.5000 ppm	0.5018 ppm
Concentration per Run 2	0.5075 ppm	0.5064 ppm	0.4853 ppm	0.4872 ppm	0.4982 ppm	0.5048 ppm	0.4909 ppm
Concentration per Run 3	0.5056 ppm	0.5162 ppm	0.4866 ppm	0.4872 ppm	0.5014 ppm	0.5061 ppm	0.4951 ppm
Recovery Percentage 1	101.251 %	101.108 %	97.422 %	97.419 %	99.644 %	100.725 %	99.185 %
Concentration RSD	0.2 %	2.2 %	0.4 %	0.0 %	0.6 %	0.6 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4909 ppm	0.4990 ppm	0.5012 ppm	0.4943 ppm	0.5091 ppm	5.2751 ppm	0.5047 ppm
Concentration per Run 1	0.4913 ppm	0.4995 ppm	0.5006 ppm	0.4940 ppm	0.5054 ppm	5.2334 ppm	0.5041 ppm
Concentration per Run 2	0.4911 ppm	0.4995 ppm	0.5023 ppm	0.4947 ppm	0.5089 ppm	5.2953 ppm	0.5059 ppm
Concentration per Run 3	0.4902 ppm	0.4979 ppm	0.5008 ppm	0.4941 ppm	0.5130 ppm	5.2964 ppm	0.5041 ppm
Recovery Percentage 1	98.176 %	99.792 %	100.248 %	98.853 %	101.814 %	105.501 %	100.939 %
Concentration RSD	0.1 %	0.2 %	0.2 %	0.1 %	0.7 %	0.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4935 ppm	0.4845 ppm	10.1472 ppm	0.5034 ppm	0.5014 ppm	0.4942 ppm	0.4968 ppm
Concentration per Run 1	0.4897 ppm	0.4823 ppm	10.0707 ppm	0.5042 ppm	0.5019 ppm	0.4965 ppm	0.4966 ppm
Concentration per Run 2	0.4943 ppm	0.4845 ppm	10.1473 ppm	0.5035 ppm	0.5021 ppm	0.4933 ppm	0.4965 ppm
Concentration per Run 3	0.4964 ppm	0.4867 ppm	10.2235 ppm	0.5025 ppm	0.5003 ppm	0.4929 ppm	0.4974 ppm
Recovery Percentage 1	98.698 %	96.902 %	101.472 %	100.681 %	100.285 %	98.846 %	99.368 %
Concentration RSD	0.7 %	0.5 %	0.8 %	0.2 %	0.2 %	0.4 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5149 ppm	0.4941 ppm	0.4895 ppm	0.5052 ppm	0.4941 ppm	0.4972 ppm	0.4990 ppm
Concentration per Run 1	5.5187 ppm	0.4937 ppm	0.4860 ppm	0.5046 ppm	0.4932 ppm	0.4963 ppm	0.4995 ppm
Concentration per Run 2	5.5184 ppm	0.4947 ppm	0.4896 ppm	0.5053 ppm	0.4949 ppm	0.4981 ppm	0.4994 ppm
Concentration per Run 3	5.5075 ppm	0.4939 ppm	0.4927 ppm	0.5058 ppm	0.4941 ppm	0.4971 ppm	0.4981 ppm
Recovery Percentage 1	105.045 %	98.821 %	97.891 %	101.048 %	98.813 %	99.433 %	99.796 %
Concentration RSD	0.1 %	0.1 %	0.7 %	0.1 %	0.2 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0326 %	102.6547 %	102.2430 %	86.2370 %	100.5188 %	100.2192 %
Concentration per Run 1	101.5549 %	102.7184 %	102.2192 %	85.5955 %	100.5351 %	100.2222 %
Concentration per Run 2	100.9814 %	102.6688 %	102.3137 %	86.5028 %	100.3343 %	100.3600 %
Concentration per Run 3	100.5616 %	102.5769 %	102.1962 %	86.6126 %	100.6870 %	100.0754 %
Recovery Percentage 1						
Concentration RSD	0.5 %	0.1 %	0.1 %	0.6 %	0.2 %	0.1 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:22:05 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0008 ppm	0.0003 ppm	0.0015 ppm	0.0004 ppm	0.0000 ppm	0.0482 ppm
Concentration per Run 1	0.0002 ppm	-0.0009 ppm	0.0010 ppm	0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0430 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0018 ppm	0.0006 ppm	0.0000 ppm	0.0550 ppm
Concentration per Run 3	0.0007 ppm	0.0036 ppm	0.0009 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0467 ppm
Recovery Percentage 1	4.587 %	0.839 %	5.285 %	5.136 %	4.032 %	-0.350 %	48.234 %
Concentration RSD	101.5 %	288.0 %	426.0 %	30.6 %	32.9 %	75.6 %	12.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0026 ppm	-0.0179 ppm	0.0080 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	-0.0200 ppm	0.0090 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0002 ppm	0.0044 ppm	-0.0345 ppm	0.0073 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0024 ppm	0.0008 ppm	0.0078 ppm
Recovery Percentage 1	-0.332 %	0.022 %	-0.877 %	2.770 %	5.210 %	-0.717 %	8.035 %
Concentration RSD	33.5 %	6,291.5 %	220.9 %	34.4 %	63.0 %	99.2 %	11.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0015 ppm	-0.0463 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0017 ppm	-0.0518 ppm	-0.0003 ppm	-0.0006 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0015 ppm	-0.0346 ppm	-0.0004 ppm	0.0003 ppm	0.0018 ppm	0.0009 ppm
Concentration per Run 3	-0.0008 ppm	0.0013 ppm	-0.0526 ppm	-0.0003 ppm	0.0000 ppm	0.0011 ppm	-0.0001 ppm
Recovery Percentage 1	-1.969 %	3.063 %	-2.317 %	-1.275 %	-1.260 %	0.621 %	2.447 %
Concentration RSD	321.7 %	11.5 %	21.9 %	31.5 %	364.8 %	647.9 %	218.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0008 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 2	0.0004 ppm	-0.0010 ppm	0.0000 ppm	-0.0005 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 3	-0.0005 ppm	-0.0008 ppm	0.0004 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm
Recovery Percentage 1	-0.004 %	-1.709 %	1.253 %	-1.118 %	0.209 %	-2.146 %	-6.885 %
Concentration RSD	2,112.2 %	18.1 %	194.5 %	393.9 %	925.7 %	90.1 %	15.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.0683 %	104.7572 %	103.6521 %	81.3398 %	99.4532 %	98.3488 %
Concentration per Run 1	108.9165 %	105.1099 %	103.8372 %	81.3890 %	98.7413 %	98.3497 %
Concentration per Run 2	102.2640 %	104.1896 %	103.6463 %	81.1779 %	99.4389 %	97.6808 %
Concentration per Run 3	101.0244 %	104.9723 %	103.4729 %	81.4526 %	100.1794 %	99.0158 %
Recovery Percentage 1						
Concentration RSD	4.1 %	0.5 %	0.2 %	0.2 %	0.7 %	0.7 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-05 WG1935421
Analysis started at: 6/19/2024 9:36:23 AM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0653 ppm	0.0019 ppm	0.0150 ppm	0.1121 ppm	0.0000 ppm	161.3678 ppm
Concentration per Run 1	-0.0002 ppm	0.0682 ppm	0.0026 ppm	0.0150 ppm	0.1088 ppm	-0.0001 ppm	156.8631 ppm
Concentration per Run 2	-0.0002 ppm	0.0637 ppm	0.0008 ppm	0.0153 ppm	0.1132 ppm	0.0000 ppm	162.5673 ppm
Concentration per Run 3	-0.0002 ppm	0.0641 ppm	0.0024 ppm	0.0148 ppm	0.1141 ppm	0.0001 ppm	164.6730 ppm
Concentration RSD	10.6 %	3.8 %	52.9 %	1.7 %	2.5 %	1,729.9 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0013 ppm	0.0026 ppm	0.0007 ppm	0.0055 ppm	0.1666 ppm	1.9191 ppm	6.1772 ppm
Concentration per Run 1	0.0013 ppm	0.0025 ppm	0.0006 ppm	0.0053 ppm	0.1628 ppm	1.8113 ppm	6.1611 ppm
Concentration per Run 2	0.0013 ppm	0.0027 ppm	0.0008 ppm	0.0054 ppm	0.1677 ppm	1.9273 ppm	6.1937 ppm
Concentration per Run 3	0.0014 ppm	0.0026 ppm	0.0008 ppm	0.0056 ppm	0.1692 ppm	2.0188 ppm	6.1766 ppm
Concentration RSD	1.6 %	4.5 %	11.2 %	2.8 %	2.0 %	5.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2417 ppm	0.0011 ppm	1.3644 ppm	0.0142 ppm	0.2688 ppm	0.0008 ppm	-0.0023 ppm
Concentration per Run 1	0.2348 ppm	0.0012 ppm	1.3202 ppm	0.0140 ppm	0.2685 ppm	0.0028 ppm	-0.0038 ppm
Concentration per Run 2	0.2436 ppm	0.0011 ppm	1.3813 ppm	0.0143 ppm	0.2678 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	0.2466 ppm	0.0009 ppm	1.3918 ppm	0.0144 ppm	0.2701 ppm	-0.0009 ppm	-0.0026 ppm
Concentration RSD	2.5 %	14.0 %	2.8 %	1.4 %	0.4 %	228.2 %	73.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.4531 ppm	0.0007 ppm	0.2795 ppm	0.0021 ppm	-0.0004 ppm	0.0009 ppm	0.4635 ppm
Concentration per Run 1	7.4294 ppm	0.0005 ppm	0.2722 ppm	0.0022 ppm	-0.0008 ppm	0.0008 ppm	0.4617 ppm
Concentration per Run 2	7.4657 ppm	0.0010 ppm	0.2812 ppm	0.0018 ppm	-0.0009 ppm	0.0012 ppm	0.4646 ppm
Concentration per Run 3	7.4640 ppm	0.0006 ppm	0.2852 ppm	0.0023 ppm	0.0005 ppm	0.0008 ppm	0.4642 ppm
Concentration RSD	0.3 %	42.7 %	2.4 %	12.8 %	208.0 %	27.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.7979 %	98.4925 %	98.0998 %	101.2689 %	94.2932 %	98.6747 %
Concentration per Run 1	101.4436 %	98.3560 %	98.3171 %	108.1558 %	94.7956 %	98.8875 %
Concentration per Run 2	97.6214 %	98.6844 %	97.7816 %	99.8937 %	93.9289 %	98.6991 %
Concentration per Run 3	97.3287 %	98.4372 %	98.2007 %	95.7572 %	94.1552 %	98.4374 %
Concentration RSD	2.3 %	0.2 %	0.3 %	6.2 %	0.5 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-06 WG1935421
Analysis started at: 6/19/2024 9:42:33 AM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.3745 ppm	0.0034 ppm	0.0125 ppm	0.1299 ppm	0.0002 ppm	114.4450 ppm
Concentration per Run 1	0.0001 ppm	0.3741 ppm	0.0039 ppm	0.0127 ppm	0.1271 ppm	0.0002 ppm	111.5811 ppm
Concentration per Run 2	0.0005 ppm	0.3822 ppm	0.0032 ppm	0.0121 ppm	0.1312 ppm	0.0002 ppm	115.6671 ppm
Concentration per Run 3	-0.0004 ppm	0.3674 ppm	0.0030 ppm	0.0125 ppm	0.1313 ppm	0.0002 ppm	116.0868 ppm
Concentration RSD	483.5 %	2.0 %	14.0 %	2.3 %	1.9 %	16.9 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0023 ppm	0.0028 ppm	0.0034 ppm	0.0047 ppm	2.3051 ppm	1.3974 ppm	4.9865 ppm
Concentration per Run 1	0.0023 ppm	0.0027 ppm	0.0037 ppm	0.0048 ppm	2.2454 ppm	1.3467 ppm	4.9387 ppm
Concentration per Run 2	0.0023 ppm	0.0030 ppm	0.0033 ppm	0.0047 ppm	2.3302 ppm	1.4199 ppm	5.0006 ppm
Concentration per Run 3	0.0023 ppm	0.0027 ppm	0.0032 ppm	0.0045 ppm	2.3396 ppm	1.4257 ppm	5.0201 ppm
Concentration RSD	0.9 %	5.8 %	7.9 %	3.5 %	2.3 %	3.2 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2871 ppm	0.0002 ppm	1.0689 ppm	0.0128 ppm	0.4110 ppm	0.0007 ppm	-0.0011 ppm
Concentration per Run 1	0.2793 ppm	0.0004 ppm	1.0416 ppm	0.0126 ppm	0.4111 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	0.2903 ppm	0.0000 ppm	1.0738 ppm	0.0128 ppm	0.4113 ppm	0.0009 ppm	-0.0009 ppm
Concentration per Run 3	0.2917 ppm	0.0003 ppm	1.0913 ppm	0.0130 ppm	0.4106 ppm	0.0011 ppm	-0.0037 ppm
Concentration RSD	2.4 %	77.3 %	2.4 %	1.6 %	0.1 %	67.3 %	231.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.4688 ppm	0.0008 ppm	0.2105 ppm	0.0032 ppm	-0.0012 ppm	0.0008 ppm	0.8699 ppm
Concentration per Run 1	11.4824 ppm	0.0010 ppm	0.2052 ppm	0.0033 ppm	-0.0004 ppm	0.0009 ppm	0.8706 ppm
Concentration per Run 2	11.4646 ppm	0.0007 ppm	0.2127 ppm	0.0027 ppm	-0.0012 ppm	0.0009 ppm	0.8694 ppm
Concentration per Run 3	11.4593 ppm	0.0006 ppm	0.2136 ppm	0.0037 ppm	-0.0019 ppm	0.0008 ppm	0.8697 ppm
Concentration RSD	0.1 %	26.3 %	2.2 %	15.5 %	64.4 %	6.8 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0120 %	100.3751 %	100.1430 %	89.2772 %	95.4156 %	97.8880 %
Concentration per Run 1	102.6582 %	100.4142 %	100.3982 %	91.5116 %	95.4844 %	98.4914 %
Concentration per Run 2	98.8527 %	100.2382 %	99.9376 %	88.7023 %	95.2478 %	97.7672 %
Concentration per Run 3	98.5250 %	100.4727 %	100.0934 %	87.6178 %	95.5146 %	97.4055 %
Concentration RSD	2.3 %	0.1 %	0.2 %	2.3 %	0.2 %	0.6 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-07 WG1935421
Analysis started at: 6/19/2024 9:48:44 AM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0863 ppm	0.0020 ppm	0.0133 ppm	0.1388 ppm	0.0001 ppm	151.9587 ppm
Concentration per Run 1	-0.0001 ppm	0.0805 ppm	0.0033 ppm	0.0131 ppm	0.1404 ppm	0.0000 ppm	153.5313 ppm
Concentration per Run 2	0.0001 ppm	0.1011 ppm	0.0015 ppm	0.0135 ppm	0.1388 ppm	0.0001 ppm	152.0835 ppm
Concentration per Run 3	-0.0003 ppm	0.0774 ppm	0.0013 ppm	0.0134 ppm	0.1374 ppm	0.0002 ppm	150.2613 ppm
Concentration RSD	169.1 %	14.9 %	52.4 %	1.7 %	1.1 %	95.4 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0025 ppm	0.0033 ppm	0.0017 ppm	7.6329 ppm	4.6600 ppm	1.9457 ppm	6.1802 ppm
Concentration per Run 1	0.0025 ppm	0.0032 ppm	0.0018 ppm	7.5771 ppm	4.7000 ppm	1.9739 ppm	6.1492 ppm
Concentration per Run 2	0.0024 ppm	0.0033 ppm	0.0016 ppm	7.6460 ppm	4.6642 ppm	1.9609 ppm	6.1940 ppm
Concentration per Run 3	0.0025 ppm	0.0033 ppm	0.0017 ppm	7.6755 ppm	4.6160 ppm	1.9022 ppm	6.1974 ppm
Concentration RSD	1.5 %	2.0 %	5.7 %	0.7 %	0.9 %	2.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2854 ppm	0.0005 ppm	1.3164 ppm	0.0161 ppm	0.5723 ppm	0.0014 ppm	-0.0026 ppm
Concentration per Run 1	0.2880 ppm	0.0004 ppm	1.3253 ppm	0.0158 ppm	0.5744 ppm	0.0030 ppm	-0.0023 ppm
Concentration per Run 2	0.2870 ppm	0.0005 ppm	1.3147 ppm	0.0161 ppm	0.5690 ppm	0.0013 ppm	-0.0010 ppm
Concentration per Run 3	0.2811 ppm	0.0008 ppm	1.3094 ppm	0.0163 ppm	0.5737 ppm	0.0000 ppm	-0.0045 ppm
Concentration RSD	1.3 %	34.9 %	0.6 %	1.3 %	0.5 %	108.4 %	67.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.0956 ppm	0.0008 ppm	0.2753 ppm	0.0015 ppm	-0.0025 ppm	0.0008 ppm	0.6955 ppm
Concentration per Run 1	8.1086 ppm	0.0013 ppm	0.2784 ppm	0.0014 ppm	-0.0019 ppm	0.0006 ppm	0.6965 ppm
Concentration per Run 2	8.0501 ppm	0.0004 ppm	0.2755 ppm	0.0016 ppm	-0.0027 ppm	0.0011 ppm	0.6920 ppm
Concentration per Run 3	8.1281 ppm	0.0006 ppm	0.2721 ppm	0.0016 ppm	-0.0030 ppm	0.0007 ppm	0.6981 ppm
Concentration RSD	0.5 %	60.1 %	1.2 %	7.7 %	23.1 %	30.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.3044 %	99.1934 %	95.3974 %	85.6183 %	93.5864 %	97.6564 %
Concentration per Run 1	96.8454 %	99.7798 %	95.3962 %	86.2027 %	93.3581 %	98.1694 %
Concentration per Run 2	96.7949 %	98.4304 %	95.7697 %	85.2729 %	94.2013 %	97.2688 %
Concentration per Run 3	98.2728 %	99.3699 %	95.0262 %	85.3794 %	93.1996 %	97.5309 %
Concentration RSD	0.9 %	0.7 %	0.4 %	0.6 %	0.6 %	0.5 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-08 WG1935421
Analysis started at: 6/19/2024 9:54:54 AM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0895 ppm	0.0007 ppm	0.0154 ppm	0.1380 ppm	0.0000 ppm	150.2184 ppm
Concentration per Run 1	0.0004 ppm	0.0951 ppm	0.0001 ppm	0.0152 ppm	0.1397 ppm	-0.0001 ppm	152.0527 ppm
Concentration per Run 2	0.0006 ppm	0.0865 ppm	0.0015 ppm	0.0155 ppm	0.1377 ppm	0.0000 ppm	149.7778 ppm
Concentration per Run 3	-0.0004 ppm	0.0871 ppm	0.0006 ppm	0.0153 ppm	0.1366 ppm	0.0000 ppm	148.8248 ppm
Concentration RSD	290.3 %	5.4 %	97.5 %	0.9 %	1.2 %	55,811.3 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0028 ppm	0.0010 ppm	0.0037 ppm	0.4806 ppm	1.6391 ppm	6.0585 ppm
Concentration per Run 1	0.0009 ppm	0.0028 ppm	0.0008 ppm	0.0038 ppm	0.4891 ppm	1.6438 ppm	6.0341 ppm
Concentration per Run 2	0.0009 ppm	0.0027 ppm	0.0013 ppm	0.0039 ppm	0.4790 ppm	1.6270 ppm	6.1130 ppm
Concentration per Run 3	0.0009 ppm	0.0029 ppm	0.0008 ppm	0.0035 ppm	0.4737 ppm	1.6465 ppm	6.0285 ppm
Concentration RSD	1.3 %	3.0 %	29.3 %	6.2 %	1.6 %	0.6 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2868 ppm	0.0008 ppm	1.2857 ppm	0.0127 ppm	0.1141 ppm	0.0017 ppm	-0.0017 ppm
Concentration per Run 1	0.2900 ppm	0.0009 ppm	1.2986 ppm	0.0128 ppm	0.1140 ppm	0.0015 ppm	-0.0021 ppm
Concentration per Run 2	0.2866 ppm	0.0008 ppm	1.2696 ppm	0.0126 ppm	0.1138 ppm	0.0025 ppm	-0.0018 ppm
Concentration per Run 3	0.2838 ppm	0.0008 ppm	1.2890 ppm	0.0126 ppm	0.1146 ppm	0.0010 ppm	-0.0011 ppm
Concentration RSD	1.1 %	8.3 %	1.2 %	0.8 %	0.4 %	43.3 %	31.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.6465 ppm	0.0003 ppm	0.2709 ppm	0.0016 ppm	0.0002 ppm	0.0011 ppm	0.4319 ppm
Concentration per Run 1	7.6335 ppm	0.0007 ppm	0.2746 ppm	0.0015 ppm	-0.0001 ppm	0.0014 ppm	0.4310 ppm
Concentration per Run 2	7.6226 ppm	-0.0002 ppm	0.2699 ppm	0.0012 ppm	0.0001 ppm	0.0010 ppm	0.4309 ppm
Concentration per Run 3	7.6834 ppm	0.0006 ppm	0.2683 ppm	0.0022 ppm	0.0006 ppm	0.0009 ppm	0.4338 ppm
Concentration RSD	0.4 %	131.8 %	1.2 %	30.4 %	200.5 %	25.5 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.6233 %	99.0306 %	98.4557 %	83.8316 %	94.6998 %	96.7969 %
Concentration per Run 1	96.4008 %	98.4541 %	98.5742 %	82.5388 %	95.0416 %	96.9621 %
Concentration per Run 2	97.8411 %	98.9453 %	98.6264 %	84.3332 %	95.0187 %	96.1093 %
Concentration per Run 3	98.6279 %	99.6925 %	98.1667 %	84.6227 %	94.0391 %	97.3193 %
Concentration RSD	1.2 %	0.6 %	0.3 %	1.3 %	0.6 %	0.6 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-09 WG1935421
Analysis started at: 6/19/2024 10:01:06 AM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0739 ppm	0.0019 ppm	0.0200 ppm	0.1612 ppm	0.0000 ppm	155.7093 ppm
Concentration per Run 1	0.0003 ppm	0.0791 ppm	0.0029 ppm	0.0203 ppm	0.1584 ppm	0.0001 ppm	153.4682 ppm
Concentration per Run 2	-0.0003 ppm	0.0638 ppm	0.0006 ppm	0.0201 ppm	0.1620 ppm	0.0000 ppm	155.9834 ppm
Concentration per Run 3	-0.0002 ppm	0.0789 ppm	0.0022 ppm	0.0195 ppm	0.1633 ppm	0.0001 ppm	157.6762 ppm
Concentration RSD	294.5 %	11.9 %	61.6 %	2.0 %	1.6 %	161.5 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0010 ppm	0.0031 ppm	0.0007 ppm	0.0018 ppm	0.5924 ppm	1.6894 ppm	6.2404 ppm
Concentration per Run 1	0.0010 ppm	0.0033 ppm	0.0012 ppm	0.0018 ppm	0.5837 ppm	1.6578 ppm	6.2384 ppm
Concentration per Run 2	0.0010 ppm	0.0029 ppm	0.0011 ppm	0.0022 ppm	0.5963 ppm	1.7043 ppm	6.1882 ppm
Concentration per Run 3	0.0010 ppm	0.0031 ppm	-0.0001 ppm	0.0013 ppm	0.5974 ppm	1.7060 ppm	6.2945 ppm
Concentration RSD	2.4 %	6.2 %	99.3 %	24.6 %	1.3 %	1.6 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2839 ppm	0.0008 ppm	1.5022 ppm	0.0128 ppm	0.0906 ppm	0.0024 ppm	-0.0019 ppm
Concentration per Run 1	0.2793 ppm	0.0007 ppm	1.4729 ppm	0.0131 ppm	0.0908 ppm	0.0024 ppm	-0.0021 ppm
Concentration per Run 2	0.2850 ppm	0.0008 ppm	1.5115 ppm	0.0126 ppm	0.0902 ppm	0.0019 ppm	-0.0016 ppm
Concentration per Run 3	0.2873 ppm	0.0009 ppm	1.5222 ppm	0.0126 ppm	0.0908 ppm	0.0029 ppm	-0.0020 ppm
Concentration RSD	1.4 %	17.5 %	1.7 %	2.4 %	0.4 %	20.7 %	12.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.8079 ppm	0.0004 ppm	0.2734 ppm	0.0018 ppm	-0.0006 ppm	0.0005 ppm	0.6264 ppm
Concentration per Run 1	6.8408 ppm	0.0004 ppm	0.2698 ppm	0.0020 ppm	0.0001 ppm	0.0002 ppm	0.6289 ppm
Concentration per Run 2	6.7885 ppm	-0.0002 ppm	0.2739 ppm	0.0017 ppm	-0.0013 ppm	0.0007 ppm	0.6253 ppm
Concentration per Run 3	6.7946 ppm	0.0010 ppm	0.2765 ppm	0.0018 ppm	-0.0005 ppm	0.0006 ppm	0.6249 ppm
Concentration RSD	0.4 %	149.4 %	1.2 %	8.5 %	122.8 %	55.3 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.0119 %	99.7541 %	98.5999 %	86.4109 %	94.7105 %	97.8975 %
Concentration per Run 1	99.2729 %	99.9640 %	98.4429 %	87.0659 %	94.4390 %	98.2733 %
Concentration per Run 2	97.8731 %	100.1279 %	98.3782 %	86.6681 %	94.8380 %	98.4865 %
Concentration per Run 3	96.8897 %	99.1705 %	98.9786 %	85.4988 %	94.8544 %	96.9327 %
Concentration RSD	1.2 %	0.5 %	0.3 %	0.9 %	0.2 %	0.9 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-10 WG1935421
Analysis started at: 6/19/2024 10:07:18 AM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.1362 ppm	0.0009 ppm	0.0133 ppm	0.1156 ppm	0.0001 ppm	139.4739 ppm
Concentration per Run 1	0.0000 ppm	0.1255 ppm	0.0014 ppm	0.0138 ppm	0.1126 ppm	0.0001 ppm	135.7173 ppm
Concentration per Run 2	-0.0006 ppm	0.1405 ppm	0.0008 ppm	0.0126 ppm	0.1165 ppm	0.0001 ppm	140.8370 ppm
Concentration per Run 3	-0.0002 ppm	0.1427 ppm	0.0006 ppm	0.0135 ppm	0.1178 ppm	0.0000 ppm	141.8675 ppm
Concentration RSD	128.2 %	6.8 %	39.3 %	4.8 %	2.3 %	64.7 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.0027 ppm	0.0017 ppm	0.0111 ppm	0.4469 ppm	1.7127 ppm	6.0798 ppm
Concentration per Run 1	0.0014 ppm	0.0028 ppm	0.0019 ppm	0.0110 ppm	0.4351 ppm	1.6203 ppm	6.0825 ppm
Concentration per Run 2	0.0014 ppm	0.0028 ppm	0.0013 ppm	0.0112 ppm	0.4504 ppm	1.7726 ppm	6.0747 ppm
Concentration per Run 3	0.0014 ppm	0.0026 ppm	0.0019 ppm	0.0111 ppm	0.4553 ppm	1.7451 ppm	6.0823 ppm
Concentration RSD	1.3 %	5.0 %	18.5 %	0.8 %	2.4 %	4.7 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2306 ppm	0.0005 ppm	1.2612 ppm	0.0144 ppm	0.0953 ppm	0.0007 ppm	-0.0017 ppm
Concentration per Run 1	0.2250 ppm	0.0005 ppm	1.2314 ppm	0.0140 ppm	0.0954 ppm	0.0010 ppm	-0.0019 ppm
Concentration per Run 2	0.2334 ppm	0.0005 ppm	1.2697 ppm	0.0144 ppm	0.0952 ppm	0.0014 ppm	-0.0027 ppm
Concentration per Run 3	0.2334 ppm	0.0005 ppm	1.2824 ppm	0.0147 ppm	0.0952 ppm	-0.0003 ppm	-0.0003 ppm
Concentration RSD	2.1 %	6.2 %	2.1 %	2.1 %	0.1 %	133.6 %	73.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.7938 ppm	0.0002 ppm	0.2448 ppm	0.0021 ppm	-0.0005 ppm	0.0009 ppm	0.4105 ppm
Concentration per Run 1	8.7753 ppm	0.0003 ppm	0.2384 ppm	0.0015 ppm	-0.0002 ppm	0.0010 ppm	0.4101 ppm
Concentration per Run 2	8.8267 ppm	0.0000 ppm	0.2475 ppm	0.0024 ppm	-0.0009 ppm	0.0010 ppm	0.4118 ppm
Concentration per Run 3	8.7792 ppm	0.0004 ppm	0.2487 ppm	0.0024 ppm	-0.0005 ppm	0.0008 ppm	0.4097 ppm
Concentration RSD	0.3 %	87.2 %	2.3 %	25.7 %	63.1 %	16.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.9392 %	100.1631 %	99.2578 %	88.7365 %	95.4308 %	98.8309 %
Concentration per Run 1	103.1298 %	100.2793 %	99.3121 %	89.8341 %	95.5769 %	98.7688 %
Concentration per Run 2	99.7970 %	99.9250 %	99.2273 %	88.8042 %	95.1813 %	98.9044 %
Concentration per Run 3	99.8909 %	100.2851 %	99.2339 %	87.5712 %	95.5341 %	98.8194 %
Concentration RSD	1.9 %	0.2 %	0.0 %	1.3 %	0.2 %	0.1 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-11 WG1935421
Analysis started at: 6/19/2024 10:13:31 AM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0562 ppm	0.0020 ppm	0.0280 ppm	0.1224 ppm	0.0000 ppm	148.1231 ppm
Concentration per Run 1	-0.0005 ppm	0.0573 ppm	0.0021 ppm	0.0281 ppm	0.1245 ppm	0.0001 ppm	150.7159 ppm
Concentration per Run 2	0.0005 ppm	0.0474 ppm	0.0018 ppm	0.0282 ppm	0.1216 ppm	0.0000 ppm	147.4845 ppm
Concentration per Run 3	0.0000 ppm	0.0638 ppm	0.0020 ppm	0.0278 ppm	0.1210 ppm	0.0000 ppm	146.1688 ppm
Concentration RSD	5,566.3 %	14.7 %	6.0 %	0.7 %	1.5 %	180.3 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0025 ppm	0.0009 ppm	0.0029 ppm	0.2293 ppm	1.5495 ppm	5.9101 ppm
Concentration per Run 1	0.0007 ppm	0.0026 ppm	0.0013 ppm	0.0030 ppm	0.2342 ppm	1.5871 ppm	5.9620 ppm
Concentration per Run 2	0.0008 ppm	0.0024 ppm	0.0009 ppm	0.0027 ppm	0.2295 ppm	1.5365 ppm	5.8742 ppm
Concentration per Run 3	0.0007 ppm	0.0025 ppm	0.0004 ppm	0.0030 ppm	0.2241 ppm	1.5250 ppm	5.8941 ppm
Concentration RSD	5.9 %	4.4 %	52.8 %	5.1 %	2.2 %	2.1 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2687 ppm	0.0012 ppm	1.4989 ppm	0.0107 ppm	0.0603 ppm	0.0017 ppm	-0.0010 ppm
Concentration per Run 1	0.2748 ppm	0.0012 ppm	1.5177 ppm	0.0108 ppm	0.0607 ppm	0.0022 ppm	-0.0023 ppm
Concentration per Run 2	0.2668 ppm	0.0014 ppm	1.5008 ppm	0.0107 ppm	0.0606 ppm	0.0022 ppm	0.0000 ppm
Concentration per Run 3	0.2645 ppm	0.0010 ppm	1.4782 ppm	0.0105 ppm	0.0594 ppm	0.0008 ppm	-0.0008 ppm
Concentration RSD	2.0 %	14.2 %	1.3 %	1.6 %	1.2 %	45.1 %	111.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.3429 ppm	0.0021 ppm	0.2644 ppm	0.0021 ppm	-0.0015 ppm	0.0009 ppm	0.3930 ppm
Concentration per Run 1	6.3562 ppm	0.0021 ppm	0.2694 ppm	0.0024 ppm	-0.0016 ppm	0.0010 ppm	0.3936 ppm
Concentration per Run 2	6.3634 ppm	0.0022 ppm	0.2631 ppm	0.0022 ppm	-0.0021 ppm	0.0007 ppm	0.3945 ppm
Concentration per Run 3	6.3092 ppm	0.0021 ppm	0.2608 ppm	0.0016 ppm	-0.0009 ppm	0.0009 ppm	0.3909 ppm
Concentration RSD	0.5 %	4.6 %	1.7 %	20.6 %	38.6 %	18.5 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.1900 %	100.3189 %	98.8565 %	84.0927 %	95.7628 %	98.9941 %
Concentration per Run 1	96.6230 %	99.9576 %	99.0443 %	82.9212 %	95.7446 %	98.1028 %
Concentration per Run 2	98.5260 %	100.8915 %	98.6342 %	84.5457 %	95.4464 %	99.6368 %
Concentration per Run 3	99.4211 %	100.1075 %	98.8909 %	84.8113 %	96.0973 %	99.2427 %
Concentration RSD	1.5 %	0.5 %	0.2 %	1.2 %	0.3 %	0.8 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-12 WG1935421
Analysis started at: 6/19/2024 10:19:44 AM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0415 ppm	0.0016 ppm	0.0148 ppm	0.1309 ppm	0.0001 ppm	164.0041 ppm
Concentration per Run 1	0.0003 ppm	0.0493 ppm	-0.0002 ppm	0.0148 ppm	0.1317 ppm	0.0001 ppm	165.3791 ppm
Concentration per Run 2	0.0004 ppm	0.0413 ppm	0.0015 ppm	0.0150 ppm	0.1303 ppm	0.0000 ppm	163.0719 ppm
Concentration per Run 3	-0.0001 ppm	0.0340 ppm	0.0034 ppm	0.0147 ppm	0.1308 ppm	0.0001 ppm	163.5614 ppm
Concentration RSD	147.4 %	18.5 %	113.7 %	1.1 %	0.5 %	80.6 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	0.0027 ppm	0.0005 ppm	0.0022 ppm	0.1288 ppm	1.4590 ppm	5.8951 ppm
Concentration per Run 1	0.0005 ppm	0.0026 ppm	0.0009 ppm	0.0019 ppm	0.1303 ppm	1.4628 ppm	5.8989 ppm
Concentration per Run 2	0.0006 ppm	0.0026 ppm	0.0005 ppm	0.0022 ppm	0.1273 ppm	1.4469 ppm	5.9065 ppm
Concentration per Run 3	0.0005 ppm	0.0029 ppm	0.0002 ppm	0.0023 ppm	0.1289 ppm	1.4673 ppm	5.8798 ppm
Concentration RSD	9.8 %	6.1 %	65.1 %	10.0 %	1.2 %	0.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2675 ppm	0.0012 ppm	1.2751 ppm	0.0113 ppm	0.0259 ppm	0.0011 ppm	-0.0019 ppm
Concentration per Run 1	0.2696 ppm	0.0013 ppm	1.2742 ppm	0.0113 ppm	0.0251 ppm	0.0015 ppm	-0.0016 ppm
Concentration per Run 2	0.2665 ppm	0.0009 ppm	1.2759 ppm	0.0115 ppm	0.0257 ppm	0.0009 ppm	-0.0003 ppm
Concentration per Run 3	0.2664 ppm	0.0014 ppm	1.2751 ppm	0.0110 ppm	0.0269 ppm	0.0008 ppm	-0.0037 ppm
Concentration RSD	0.7 %	20.6 %	0.1 %	2.1 %	3.5 %	36.9 %	91.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6516 ppm	0.0002 ppm	0.2760 ppm	0.0015 ppm	-0.0007 ppm	0.0007 ppm	0.3997 ppm
Concentration per Run 1	5.6506 ppm	0.0001 ppm	0.2780 ppm	0.0019 ppm	-0.0013 ppm	0.0008 ppm	0.3992 ppm
Concentration per Run 2	5.6354 ppm	0.0008 ppm	0.2748 ppm	0.0017 ppm	-0.0012 ppm	0.0007 ppm	0.3989 ppm
Concentration per Run 3	5.6688 ppm	-0.0003 ppm	0.2751 ppm	0.0009 ppm	0.0004 ppm	0.0006 ppm	0.4011 ppm
Concentration RSD	0.3 %	234.2 %	0.7 %	35.7 %	132.2 %	13.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.9200 %	99.0943 %	98.2836 %	84.7550 %	94.3979 %	98.3298 %
Concentration per Run 1	96.9767 %	98.6975 %	98.6401 %	84.0951 %	94.5019 %	98.0704 %
Concentration per Run 2	98.3617 %	99.7585 %	98.4152 %	85.2367 %	94.6006 %	98.4296 %
Concentration per Run 3	98.4217 %	98.8271 %	97.7955 %	84.9333 %	94.0912 %	98.4894 %
Concentration RSD	0.8 %	0.6 %	0.4 %	0.7 %	0.3 %	0.2 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-13 WG1935421
Analysis started at: 6/19/2024 10:25:57 AM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0270 ppm	0.0023 ppm	0.0095 ppm	0.0551 ppm	-0.0001 ppm	183.7202 ppm
Concentration per Run 1	0.0003 ppm	0.0256 ppm	0.0039 ppm	0.0094 ppm	0.0550 ppm	-0.0001 ppm	183.4534 ppm
Concentration per Run 2	-0.0008 ppm	0.0310 ppm	0.0011 ppm	0.0096 ppm	0.0553 ppm	-0.0001 ppm	183.6439 ppm
Concentration per Run 3	-0.0005 ppm	0.0244 ppm	0.0020 ppm	0.0096 ppm	0.0551 ppm	-0.0001 ppm	184.0632 ppm
Concentration RSD	164.5 %	13.1 %	60.2 %	1.3 %	0.3 %	37.8 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0018 ppm	0.0039 ppm	0.0024 ppm	2.1531 ppm	1.8931 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0020 ppm	0.0037 ppm	0.0025 ppm	2.1342 ppm	1.9012 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0015 ppm	0.0042 ppm	0.0004 ppm	2.1700 ppm	1.8848 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0020 ppm	0.0038 ppm	0.0043 ppm	2.1550 ppm	1.8934 ppm
Concentration RSD	221.5 %	27.4 %	14.3 %	6.4 %	80.3 %	0.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0024 ppm	1.5879 ppm	0.0021 ppm	0.0003 ppm	0.0002 ppm	-0.0021 ppm
Concentration per Run 1	-0.0001 ppm	0.0024 ppm	1.5770 ppm	0.0020 ppm	0.0008 ppm	0.0004 ppm	-0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0023 ppm	1.5929 ppm	0.0019 ppm	-0.0002 ppm	-0.0005 ppm	-0.0029 ppm
Concentration per Run 3	-0.0002 ppm	0.0026 ppm	1.5937 ppm	0.0023 ppm	0.0003 ppm	0.0008 ppm	-0.0010 ppm
Concentration RSD	95.7 %	4.7 %	0.6 %	10.2 %	173.9 %	293.2 %	47.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4618 ppm	0.0005 ppm	0.3339 ppm	0.0016 ppm	-0.0016 ppm	0.0070 ppm	-0.0006 ppm
Concentration per Run 1	1.4567 ppm	0.0004 ppm	0.3342 ppm	0.0014 ppm	-0.0014 ppm	0.0067 ppm	-0.0005 ppm
Concentration per Run 2	1.4621 ppm	0.0007 ppm	0.3329 ppm	0.0012 ppm	-0.0017 ppm	0.0072 ppm	-0.0006 ppm
Concentration per Run 3	1.4667 ppm	0.0002 ppm	0.3345 ppm	0.0021 ppm	-0.0016 ppm	0.0070 ppm	-0.0006 ppm
Concentration RSD	0.3 %	52.7 %	0.3 %	30.9 %	8.3 %	3.8 %	7.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.4408 %	98.9757 %	98.2343 %	86.5522 %	94.0761 %	98.3664 %
Concentration per Run 1	99.6040 %	98.9957 %	98.2584 %	86.7469 %	94.4260 %	98.2465 %
Concentration per Run 2	99.4737 %	99.2871 %	98.0977 %	86.4293 %	94.2465 %	98.7366 %
Concentration per Run 3	99.2446 %	98.6442 %	98.3469 %	86.4805 %	93.5558 %	98.1163 %
Concentration RSD	0.2 %	0.3 %	0.1 %	0.2 %	0.5 %	0.3 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-14 WG1935421
Analysis started at: 6/19/2024 10:32:14 AM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0353 ppm	0.0018 ppm	0.0135 ppm	0.0545 ppm	0.0000 ppm	184.4881 ppm
Concentration per Run 1	-0.0002 ppm	0.0283 ppm	0.0029 ppm	0.0136 ppm	0.0530 ppm	0.0000 ppm	179.7690 ppm
Concentration per Run 2	0.0000 ppm	0.0341 ppm	0.0026 ppm	0.0134 ppm	0.0549 ppm	0.0000 ppm	185.8086 ppm
Concentration per Run 3	-0.0003 ppm	0.0436 ppm	0.0001 ppm	0.0137 ppm	0.0557 ppm	-0.0001 ppm	187.8867 ppm
Concentration RSD	99.9 %	21.8 %	84.2 %	1.1 %	2.6 %	44.0 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0016 ppm	0.0048 ppm	0.0446 ppm	2.1368 ppm	1.5868 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0016 ppm	0.0048 ppm	0.0447 ppm	2.0673 ppm	1.5789 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0016 ppm	0.0050 ppm	0.0471 ppm	2.1801 ppm	1.5903 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0017 ppm	0.0047 ppm	0.0421 ppm	2.1630 ppm	1.5913 ppm
Concentration RSD	393.5 %	87.2 %	3.1 %	2.6 %	5.6 %	2.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0023 ppm	1.8920 ppm	0.0024 ppm	0.0001 ppm	0.0006 ppm	-0.0028 ppm
Concentration per Run 1	0.0001 ppm	0.0021 ppm	1.8448 ppm	0.0024 ppm	0.0011 ppm	0.0013 ppm	-0.0028 ppm
Concentration per Run 2	0.0000 ppm	0.0026 ppm	1.8885 ppm	0.0022 ppm	0.0006 ppm	-0.0006 ppm	-0.0013 ppm
Concentration per Run 3	-0.0004 ppm	0.0023 ppm	1.9426 ppm	0.0027 ppm	-0.0015 ppm	0.0009 ppm	-0.0041 ppm
Concentration RSD	223.4 %	11.9 %	2.6 %	9.8 %	1,968.3 %	181.5 %	51.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4770 ppm	0.0003 ppm	0.3367 ppm	0.0017 ppm	-0.0013 ppm	0.0070 ppm	-0.0004 ppm
Concentration per Run 1	1.4710 ppm	0.0003 ppm	0.3279 ppm	0.0021 ppm	-0.0021 ppm	0.0070 ppm	-0.0003 ppm
Concentration per Run 2	1.4726 ppm	0.0001 ppm	0.3391 ppm	0.0017 ppm	-0.0014 ppm	0.0070 ppm	-0.0004 ppm
Concentration per Run 3	1.4874 ppm	0.0007 ppm	0.3432 ppm	0.0014 ppm	-0.0005 ppm	0.0070 ppm	-0.0004 ppm
Concentration RSD	0.6 %	80.4 %	2.4 %	20.8 %	60.6 %	0.2 %	10.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.8202 %	99.1662 %	98.1145 %	87.8645 %	94.2081 %	98.7792 %
Concentration per Run 1	103.2388 %	99.9779 %	98.1861 %	88.8643 %	94.5339 %	99.5108 %
Concentration per Run 2	99.9479 %	98.7634 %	97.9567 %	87.7307 %	94.4632 %	98.4770 %
Concentration per Run 3	99.2740 %	98.7573 %	98.2008 %	86.9986 %	93.6272 %	98.3498 %
Concentration RSD	2.1 %	0.7 %	0.1 %	1.1 %	0.5 %	0.6 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 10:38:31 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5036 ppm	0.4960 ppm	0.4856 ppm	0.4855 ppm	0.4939 ppm	0.4952 ppm	0.5003 ppm
Concentration per Run 1	0.5037 ppm	0.4884 ppm	0.4848 ppm	0.4858 ppm	0.4831 ppm	0.4840 ppm	0.4883 ppm
Concentration per Run 2	0.5024 ppm	0.5005 ppm	0.4897 ppm	0.4885 ppm	0.4997 ppm	0.5022 ppm	0.5051 ppm
Concentration per Run 3	0.5047 ppm	0.4992 ppm	0.4823 ppm	0.4822 ppm	0.4990 ppm	0.4993 ppm	0.5073 ppm
Recovery Percentage 1	100.723 %	99.205 %	97.117 %	97.098 %	98.785 %	99.030 %	100.052 %
Concentration RSD	0.2 %	1.3 %	0.8 %	0.7 %	1.9 %	2.0 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4906 ppm	0.4972 ppm	0.5025 ppm	0.4956 ppm	0.4986 ppm	5.1790 ppm	0.4949 ppm
Concentration per Run 1	0.4917 ppm	0.4976 ppm	0.5023 ppm	0.4953 ppm	0.4842 ppm	5.0428 ppm	0.4942 ppm
Concentration per Run 2	0.4927 ppm	0.4996 ppm	0.5015 ppm	0.4955 ppm	0.5032 ppm	5.2892 ppm	0.4946 ppm
Concentration per Run 3	0.4874 ppm	0.4945 ppm	0.5037 ppm	0.4959 ppm	0.5084 ppm	5.2048 ppm	0.4959 ppm
Recovery Percentage 1	98.116 %	99.444 %	100.495 %	99.112 %	99.713 %	103.579 %	98.984 %
Concentration RSD	0.6 %	0.5 %	0.2 %	0.1 %	2.6 %	2.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4855 ppm	0.4858 ppm	10.0069 ppm	0.5003 ppm	0.4997 ppm	0.4961 ppm	0.4950 ppm
Concentration per Run 1	0.4747 ppm	0.4847 ppm	9.7816 ppm	0.5014 ppm	0.5010 ppm	0.4960 ppm	0.4986 ppm
Concentration per Run 2	0.4920 ppm	0.4879 ppm	10.1401 ppm	0.5028 ppm	0.5015 ppm	0.4999 ppm	0.4968 ppm
Concentration per Run 3	0.4898 ppm	0.4848 ppm	10.0989 ppm	0.4967 ppm	0.4966 ppm	0.4924 ppm	0.4896 ppm
Recovery Percentage 1	97.101 %	97.160 %	100.069 %	100.059 %	99.938 %	99.218 %	99.005 %
Concentration RSD	1.9 %	0.4 %	2.0 %	0.6 %	0.5 %	0.8 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5370 ppm	0.4933 ppm	0.4845 ppm	0.4942 ppm	0.4926 ppm	0.4976 ppm	0.5002 ppm
Concentration per Run 1	5.5435 ppm	0.4938 ppm	0.4743 ppm	0.4947 ppm	0.4945 ppm	0.4971 ppm	0.5012 ppm
Concentration per Run 2	5.5680 ppm	0.4957 ppm	0.4900 ppm	0.4935 ppm	0.4935 ppm	0.4979 ppm	0.5024 ppm
Concentration per Run 3	5.4995 ppm	0.4904 ppm	0.4893 ppm	0.4942 ppm	0.4897 ppm	0.4977 ppm	0.4970 ppm
Recovery Percentage 1	105.467 %	98.664 %	96.909 %	98.831 %	98.513 %	99.516 %	100.036 %
Concentration RSD	0.6 %	0.5 %	1.8 %	0.1 %	0.5 %	0.1 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.0032 %	102.2380 %	102.6581 %	88.0796 %	101.7716 %	102.0532 %
Concentration per Run 1	104.5900 %	102.0734 %	102.7261 %	88.6878 %	101.8883 %	101.8683 %
Concentration per Run 2	100.5515 %	102.2969 %	102.3553 %	87.7740 %	101.3379 %	102.2651 %
Concentration per Run 3	100.8680 %	102.3437 %	102.8930 %	87.7770 %	102.0888 %	102.0261 %
Recovery Percentage 1						
Concentration RSD	2.2 %	0.1 %	0.3 %	0.6 %	0.4 %	0.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 10:44:35 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0036 ppm	-0.0002 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0265 ppm
Concentration per Run 1	-0.0009 ppm	0.0129 ppm	0.0010 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm	0.0254 ppm
Concentration per Run 2	-0.0002 ppm	0.0017 ppm	-0.0006 ppm	0.0012 ppm	-0.0002 ppm	0.0002 ppm	0.0271 ppm
Concentration per Run 3	0.0005 ppm	-0.0037 ppm	-0.0009 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0271 ppm
Recovery Percentage 1	-2.979 %	3.622 %	-3.460 %	2.887 %	-1.527 %	0.783 %	26.539 %
Concentration RSD	326.6 %	233.6 %	614.2 %	36.1 %	33.8 %	366.7 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0013 ppm	0.0016 ppm	0.0051 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0009 ppm	-0.0002 ppm	0.0004 ppm	-0.0085 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0017 ppm	0.0262 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0018 ppm	-0.0130 ppm	0.0083 ppm
Recovery Percentage 1	0.222 %	-0.074 %	-1.930 %	1.291 %	2.589 %	0.062 %	5.087 %
Concentration RSD	399.9 %	414.8 %	342.5 %	197.8 %	61.5 %	1,378.4 %	57.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0014 ppm	-0.0495 ppm	0.0003 ppm	-0.0002 ppm	0.0008 ppm	-0.0024 ppm
Concentration per Run 1	0.0004 ppm	0.0018 ppm	-0.0552 ppm	0.0004 ppm	0.0002 ppm	0.0018 ppm	-0.0043 ppm
Concentration per Run 2	-0.0002 ppm	0.0012 ppm	-0.0414 ppm	0.0002 ppm	-0.0011 ppm	0.0002 ppm	-0.0030 ppm
Concentration per Run 3	0.0000 ppm	0.0012 ppm	-0.0520 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm
Recovery Percentage 1	0.766 %	2.791 %	-2.476 %	1.267 %	-2.240 %	1.681 %	-23.855 %
Concentration RSD	358.8 %	25.3 %	14.6 %	34.0 %	323.9 %	104.9 %	95.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm
Recovery Percentage 1	0.016 %	-0.537 %	1.162 %	-0.416 %	-0.870 %	2.376 %	-7.467 %
Concentration RSD	204.8 %	74.5 %	76.2 %	1,306.3 %	72.4 %	23.2 %	26.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.8714 %	103.4479 %	103.1923 %	79.6270 %	98.9330 %	98.9922 %
Concentration per Run 1	105.7315 %	104.1978 %	103.1611 %	78.4008 %	99.0402 %	99.5240 %
Concentration per Run 2	101.9560 %	104.2733 %	103.0891 %	79.8593 %	98.7504 %	99.7814 %
Concentration per Run 3	100.9267 %	101.8725 %	103.3265 %	80.6208 %	99.0084 %	97.6712 %
Recovery Percentage 1						
Concentration RSD	2.5 %	1.3 %	0.1 %	1.4 %	0.2 %	1.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935424-1 WG1935424
Analysis started at: 6/19/2024 10:53:19 AM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0050 ppm	-0.0006 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 1	0.0001 ppm	0.0176 ppm	-0.0010 ppm	0.0021 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0071 ppm	0.0006 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 3	0.0003 ppm	0.0046 ppm	-0.0013 ppm	0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0144 ppm
Concentration RSD	130.1 %	245.6 %	175.3 %	22.3 %	296.3 %	67.3 %	93.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0119 ppm	0.0044 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0003 ppm	-0.0010 ppm	0.0117 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0010 ppm	-0.0276 ppm	0.0081 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0515 ppm	0.0043 ppm
Concentration RSD	466.0 %	320.4 %	159.2 %	119.6 %	855.7 %	332.7 %	80.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	125.8879 ppm	0.0003 ppm	0.0001 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	125.6782 ppm	0.0002 ppm	0.0002 ppm	0.0028 ppm	0.0030 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	125.7700 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	-0.0012 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	126.2155 ppm	0.0004 ppm	-0.0001 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	155.7 %	26.6 %	0.2 %	45.9 %	242.3 %	67.6 %	410.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0227 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	-0.0016 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0227 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 2	0.0228 ppm	0.0010 ppm	0.0001 ppm	0.0004 ppm	-0.0026 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	0.0225 ppm	0.0006 ppm	-0.0002 ppm	-0.0002 ppm	-0.0021 ppm	-0.0002 ppm	0.0005 ppm
Concentration RSD	0.8 %	27.9 %	1,677.7 %	183.6 %	81.8 %	280.2 %	20.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.2155 %	97.9038 %	98.4480 %	94.5377 %	95.1359 %	98.0600 %
Concentration per Run 1	98.6324 %	97.7340 %	98.1764 %	98.2958 %	94.8271 %	97.9984 %
Concentration per Run 2	98.2344 %	97.8108 %	98.5214 %	93.5788 %	95.2378 %	98.0010 %
Concentration per Run 3	97.7796 %	98.1666 %	98.6463 %	91.7384 %	95.3430 %	98.1805 %
Concentration RSD	0.4 %	0.2 %	0.2 %	3.6 %	0.3 %	0.1 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935424-2 WG1935424
Analysis started at: 6/19/2024 10:59:38 AM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0473 ppm	1.9488 ppm	0.1151 ppm	0.9022 ppm	1.8873 ppm	0.0468 ppm	9.2772 ppm
Concentration per Run 1	0.0472 ppm	1.9492 ppm	0.1154 ppm	0.9010 ppm	1.8879 ppm	0.0468 ppm	9.2481 ppm
Concentration per Run 2	0.0474 ppm	1.9530 ppm	0.1165 ppm	0.9140 ppm	1.8864 ppm	0.0469 ppm	9.2839 ppm
Concentration per Run 3	0.0472 ppm	1.9442 ppm	0.1135 ppm	0.8915 ppm	1.8876 ppm	0.0468 ppm	9.2996 ppm
Concentration RSD	0.2 %	0.2 %	1.3 %	1.3 %	0.0 %	0.1 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0491 ppm	0.4575 ppm	0.1860 ppm	0.2352 ppm	0.9213 ppm	9.5020 ppm	8.6497 ppm
Concentration per Run 1	0.0491 ppm	0.4565 ppm	0.1857 ppm	0.2356 ppm	0.9179 ppm	9.5242 ppm	8.6478 ppm
Concentration per Run 2	0.0497 ppm	0.4635 ppm	0.1864 ppm	0.2353 ppm	0.9237 ppm	9.4622 ppm	8.6743 ppm
Concentration per Run 3	0.0485 ppm	0.4526 ppm	0.1860 ppm	0.2347 ppm	0.9223 ppm	9.5197 ppm	8.6270 ppm
Concentration RSD	1.2 %	1.2 %	0.2 %	0.2 %	0.3 %	0.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4477 ppm	0.9390 ppm	133.7395 ppm	0.4528 ppm	0.4995 ppm	0.4711 ppm	0.1130 ppm
Concentration per Run 1	0.4486 ppm	0.9343 ppm	134.2099 ppm	0.4523 ppm	0.4994 ppm	0.4703 ppm	0.1128 ppm
Concentration per Run 2	0.4480 ppm	0.9523 ppm	133.6162 ppm	0.4576 ppm	0.5061 ppm	0.4788 ppm	0.1148 ppm
Concentration per Run 3	0.4465 ppm	0.9304 ppm	133.3923 ppm	0.4484 ppm	0.4930 ppm	0.4643 ppm	0.1114 ppm
Concentration RSD	0.2 %	1.2 %	0.3 %	1.0 %	1.3 %	1.5 %	1.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0063 ppm	0.9132 ppm	0.8835 ppm	0.9057 ppm	0.1082 ppm	0.4708 ppm	0.4641 ppm
Concentration per Run 1	1.0052 ppm	0.9124 ppm	0.8844 ppm	0.9056 ppm	0.1080 ppm	0.4702 ppm	0.4638 ppm
Concentration per Run 2	1.0198 ppm	0.9253 ppm	0.8827 ppm	0.9069 ppm	0.1097 ppm	0.4721 ppm	0.4699 ppm
Concentration per Run 3	0.9940 ppm	0.9019 ppm	0.8834 ppm	0.9044 ppm	0.1069 ppm	0.4701 ppm	0.4587 ppm
Concentration RSD	1.3 %	1.3 %	0.1 %	0.1 %	1.3 %	0.2 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.0419 %	97.6304 %	97.8987 %	84.9408 %	94.6273 %	98.3670 %
Concentration per Run 1	97.7378 %	98.0038 %	97.6277 %	84.1382 %	94.5877 %	98.6685 %
Concentration per Run 2	98.2711 %	97.1781 %	97.7748 %	84.6279 %	93.4816 %	97.9478 %
Concentration per Run 3	98.1169 %	97.7093 %	98.2938 %	86.0564 %	95.8126 %	98.4846 %
Concentration RSD	0.3 %	0.4 %	0.4 %	1.2 %	1.2 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-15 WG1935421
Analysis started at: 6/19/2024 11:05:45 AM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.2796 ppm	0.0027 ppm	0.0131 ppm	0.1557 ppm	0.0001 ppm	128.2153 ppm
Concentration per Run 1	0.0002 ppm	0.2759 ppm	0.0034 ppm	0.0136 ppm	0.1536 ppm	0.0002 ppm	126.7660 ppm
Concentration per Run 2	0.0002 ppm	0.2757 ppm	0.0027 ppm	0.0131 ppm	0.1573 ppm	0.0002 ppm	129.2828 ppm
Concentration per Run 3	-0.0006 ppm	0.2873 ppm	0.0018 ppm	0.0127 ppm	0.1563 ppm	0.0001 ppm	128.5971 ppm
Concentration RSD	1,458.7 %	2.4 %	30.2 %	3.4 %	1.2 %	23.0 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0012 ppm	0.0029 ppm	0.0033 ppm	0.0114 ppm	1.5514 ppm	1.4455 ppm	4.9266 ppm
Concentration per Run 1	0.0012 ppm	0.0028 ppm	0.0027 ppm	0.0113 ppm	1.5239 ppm	1.4285 ppm	4.9269 ppm
Concentration per Run 2	0.0012 ppm	0.0029 ppm	0.0035 ppm	0.0114 ppm	1.5684 ppm	1.4666 ppm	4.9264 ppm
Concentration per Run 3	0.0013 ppm	0.0032 ppm	0.0035 ppm	0.0114 ppm	1.5621 ppm	1.4414 ppm	4.9263 ppm
Concentration RSD	1.5 %	6.4 %	14.8 %	0.8 %	1.6 %	1.3 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3052 ppm	0.0020 ppm	1.0822 ppm	0.0124 ppm	0.2300 ppm	0.0016 ppm	-0.0010 ppm
Concentration per Run 1	0.3008 ppm	0.0022 ppm	1.0682 ppm	0.0125 ppm	0.2307 ppm	0.0020 ppm	-0.0020 ppm
Concentration per Run 2	0.3082 ppm	0.0021 ppm	1.0892 ppm	0.0123 ppm	0.2287 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 3	0.3065 ppm	0.0017 ppm	1.0893 ppm	0.0126 ppm	0.2306 ppm	0.0018 ppm	-0.0016 ppm
Concentration RSD	1.3 %	14.5 %	1.1 %	1.1 %	0.5 %	37.4 %	129.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.1480 ppm	0.0007 ppm	0.2207 ppm	0.0029 ppm	-0.0012 ppm	0.0008 ppm	0.5290 ppm
Concentration per Run 1	10.1431 ppm	0.0011 ppm	0.2181 ppm	0.0035 ppm	-0.0007 ppm	0.0012 ppm	0.5289 ppm
Concentration per Run 2	10.1183 ppm	0.0002 ppm	0.2230 ppm	0.0027 ppm	-0.0019 ppm	0.0007 ppm	0.5272 ppm
Concentration per Run 3	10.1826 ppm	0.0008 ppm	0.2211 ppm	0.0026 ppm	-0.0011 ppm	0.0005 ppm	0.5309 ppm
Concentration RSD	0.3 %	67.7 %	1.1 %	16.4 %	51.0 %	45.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.5384 %	101.7413 %	101.2920 %	86.2548 %	96.6931 %	100.1513 %
Concentration per Run 1	99.6488 %	101.7667 %	101.3228 %	87.3626 %	96.7000 %	100.1607 %
Concentration per Run 2	97.7352 %	101.8350 %	101.3181 %	85.6162 %	96.9805 %	100.0936 %
Concentration per Run 3	98.2313 %	101.6223 %	101.2351 %	85.7856 %	96.3987 %	100.1994 %
Concentration RSD	1.0 %	0.1 %	0.0 %	1.1 %	0.3 %	0.1 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-16 WG1935421
Analysis started at: 6/19/2024 11:11:58 AM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0279 ppm	0.0015 ppm	0.0090 ppm	0.0508 ppm	0.0000 ppm	168.7996 ppm
Concentration per Run 1	-0.0003 ppm	0.0279 ppm	0.0027 ppm	0.0091 ppm	0.0486 ppm	0.0000 ppm	161.1095 ppm
Concentration per Run 2	0.0000 ppm	0.0309 ppm	0.0013 ppm	0.0089 ppm	0.0513 ppm	-0.0001 ppm	170.9348 ppm
Concentration per Run 3	0.0005 ppm	0.0250 ppm	0.0005 ppm	0.0091 ppm	0.0524 ppm	0.0000 ppm	174.3546 ppm
Concentration RSD	766.2 %	10.5 %	75.3 %	1.2 %	3.9 %	205.1 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0015 ppm	0.0043 ppm	0.0056 ppm	1.9416 ppm	0.9678 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0016 ppm	0.0044 ppm	0.0058 ppm	1.8691 ppm	0.9698 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0016 ppm	0.0043 ppm	0.0059 ppm	1.9912 ppm	0.9683 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.0041 ppm	0.0050 ppm	1.9645 ppm	0.9654 ppm
Concentration RSD	742.9 %	38.2 %	3.4 %	3.6 %	8.7 %	3.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0028 ppm	1.4376 ppm	0.0021 ppm	-0.0003 ppm	0.0005 ppm	-0.0018 ppm
Concentration per Run 1	0.0002 ppm	0.0028 ppm	1.3689 ppm	0.0021 ppm	-0.0001 ppm	0.0013 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0028 ppm	1.4506 ppm	0.0021 ppm	-0.0006 ppm	-0.0004 ppm	-0.0024 ppm
Concentration per Run 3	-0.0003 ppm	0.0026 ppm	1.4934 ppm	0.0020 ppm	-0.0003 ppm	0.0006 ppm	-0.0014 ppm
Concentration RSD	1,133.5 %	3.9 %	4.4 %	2.6 %	89.4 %	162.5 %	32.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.3245 ppm	0.0003 ppm	0.3102 ppm	0.0019 ppm	-0.0011 ppm	0.0060 ppm	-0.0006 ppm
Concentration per Run 1	1.3116 ppm	0.0007 ppm	0.2961 ppm	0.0021 ppm	-0.0003 ppm	0.0059 ppm	-0.0006 ppm
Concentration per Run 2	1.3505 ppm	0.0007 ppm	0.3143 ppm	0.0017 ppm	-0.0009 ppm	0.0062 ppm	-0.0006 ppm
Concentration per Run 3	1.3114 ppm	-0.0003 ppm	0.3204 ppm	0.0019 ppm	-0.0022 ppm	0.0060 ppm	-0.0006 ppm
Concentration RSD	1.7 %	158.8 %	4.1 %	11.3 %	88.5 %	2.9 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.1853 %	98.7937 %	97.7659 %	87.8061 %	92.6480 %	98.0700 %
Concentration per Run 1	106.6726 %	98.4524 %	98.2016 %	90.0101 %	93.6158 %	98.0074 %
Concentration per Run 2	100.7669 %	98.3878 %	97.0031 %	87.6775 %	90.8570 %	97.8709 %
Concentration per Run 3	99.1164 %	99.5410 %	98.0932 %	85.7308 %	93.4712 %	98.3316 %
Concentration RSD	3.9 %	0.7 %	0.7 %	2.4 %	1.7 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-17 WG1935421
Analysis started at: 6/19/2024 11:18:13 AM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0286 ppm	0.0028 ppm	0.0097 ppm	0.0508 ppm	0.0000 ppm	175.5231 ppm
Concentration per Run 1	0.0002 ppm	0.0403 ppm	0.0024 ppm	0.0098 ppm	0.0503 ppm	0.0000 ppm	174.2217 ppm
Concentration per Run 2	-0.0001 ppm	0.0156 ppm	0.0020 ppm	0.0098 ppm	0.0503 ppm	-0.0001 ppm	173.8436 ppm
Concentration per Run 3	0.0000 ppm	0.0300 ppm	0.0041 ppm	0.0094 ppm	0.0517 ppm	-0.0001 ppm	178.5039 ppm
Concentration RSD	414.5 %	43.2 %	40.3 %	2.4 %	1.6 %	126.6 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0036 ppm	0.0042 ppm	1.9653 ppm	3.1724 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0033 ppm	0.0051 ppm	1.9440 ppm	3.1567 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0038 ppm	0.0039 ppm	1.9800 ppm	3.1776 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0006 ppm	0.0036 ppm	0.0038 ppm	1.9719 ppm	3.1829 ppm
Concentration RSD	184.5 %	43.8 %	15.9 %	7.0 %	16.8 %	1.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0024 ppm	1.5314 ppm	0.0022 ppm	0.0003 ppm	0.0012 ppm	-0.0015 ppm
Concentration per Run 1	-0.0004 ppm	0.0026 ppm	1.5253 ppm	0.0021 ppm	0.0000 ppm	0.0011 ppm	-0.0025 ppm
Concentration per Run 2	0.0006 ppm	0.0023 ppm	1.5163 ppm	0.0027 ppm	0.0009 ppm	0.0009 ppm	-0.0005 ppm
Concentration per Run 3	0.0011 ppm	0.0025 ppm	1.5525 ppm	0.0017 ppm	0.0000 ppm	0.0016 ppm	-0.0014 ppm
Concentration RSD	181.8 %	5.4 %	1.2 %	23.6 %	185.6 %	30.6 %	68.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.5470 ppm	0.0001 ppm	0.3061 ppm	0.0018 ppm	-0.0017 ppm	0.0074 ppm	-0.0006 ppm
Concentration per Run 1	1.5526 ppm	0.0004 ppm	0.3044 ppm	0.0021 ppm	-0.0022 ppm	0.0075 ppm	-0.0005 ppm
Concentration per Run 2	1.5423 ppm	0.0002 ppm	0.3028 ppm	0.0015 ppm	-0.0011 ppm	0.0074 ppm	-0.0006 ppm
Concentration per Run 3	1.5462 ppm	-0.0003 ppm	0.3110 ppm	0.0018 ppm	-0.0018 ppm	0.0073 ppm	-0.0005 ppm
Concentration RSD	0.3 %	322.7 %	1.4 %	16.6 %	33.2 %	1.6 %	6.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.4163 %	98.6097 %	98.5430 %	85.2249 %	94.0286 %	98.2473 %
Concentration per Run 1	99.8334 %	98.9388 %	98.5602 %	83.7514 %	93.8575 %	98.7139 %
Concentration per Run 2	100.2188 %	98.7193 %	98.4733 %	86.2560 %	94.1400 %	98.1520 %
Concentration per Run 3	98.1967 %	98.1712 %	98.5954 %	85.6672 %	94.0884 %	97.8759 %
Concentration RSD	1.1 %	0.4 %	0.1 %	1.5 %	0.2 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-18 WG1935421
Analysis started at: 6/19/2024 11:24:28 AM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0536 ppm	0.0007 ppm	0.0143 ppm	0.1270 ppm	0.0001 ppm	155.0037 ppm
Concentration per Run 1	-0.0004 ppm	0.0621 ppm	0.0002 ppm	0.0143 ppm	0.1292 ppm	0.0001 ppm	157.5461 ppm
Concentration per Run 2	-0.0002 ppm	0.0588 ppm	0.0008 ppm	0.0140 ppm	0.1262 ppm	0.0001 ppm	153.8048 ppm
Concentration per Run 3	0.0000 ppm	0.0398 ppm	0.0011 ppm	0.0145 ppm	0.1255 ppm	0.0000 ppm	153.6603 ppm
Concentration RSD	89.2 %	22.4 %	60.1 %	1.9 %	1.6 %	57.6 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0024 ppm	0.0011 ppm	0.0018 ppm	0.1667 ppm	1.6492 ppm	5.6318 ppm
Concentration per Run 1	0.0006 ppm	0.0023 ppm	0.0010 ppm	0.0017 ppm	0.1702 ppm	1.6557 ppm	5.6143 ppm
Concentration per Run 2	0.0006 ppm	0.0027 ppm	0.0008 ppm	0.0019 ppm	0.1645 ppm	1.6612 ppm	5.6438 ppm
Concentration per Run 3	0.0006 ppm	0.0023 ppm	0.0014 ppm	0.0019 ppm	0.1652 ppm	1.6305 ppm	5.6373 ppm
Concentration RSD	1.4 %	9.9 %	29.3 %	7.8 %	1.9 %	1.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2488 ppm	0.0010 ppm	1.1772 ppm	0.0106 ppm	0.0702 ppm	0.0004 ppm	-0.0033 ppm
Concentration per Run 1	0.2530 ppm	0.0010 ppm	1.1983 ppm	0.0105 ppm	0.0700 ppm	0.0002 ppm	-0.0030 ppm
Concentration per Run 2	0.2472 ppm	0.0011 ppm	1.1552 ppm	0.0107 ppm	0.0707 ppm	-0.0007 ppm	-0.0015 ppm
Concentration per Run 3	0.2461 ppm	0.0010 ppm	1.1779 ppm	0.0108 ppm	0.0700 ppm	0.0015 ppm	-0.0053 ppm
Concentration RSD	1.5 %	3.2 %	1.8 %	1.3 %	0.6 %	299.0 %	59.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.9960 ppm	0.0006 ppm	0.2613 ppm	0.0018 ppm	-0.0009 ppm	0.0009 ppm	0.3382 ppm
Concentration per Run 1	6.9995 ppm	0.0004 ppm	0.2662 ppm	0.0015 ppm	-0.0014 ppm	0.0007 ppm	0.3387 ppm
Concentration per Run 2	7.0180 ppm	0.0004 ppm	0.2593 ppm	0.0019 ppm	-0.0012 ppm	0.0010 ppm	0.3396 ppm
Concentration per Run 3	6.9704 ppm	0.0008 ppm	0.2584 ppm	0.0020 ppm	0.0000 ppm	0.0011 ppm	0.3363 ppm
Concentration RSD	0.3 %	37.6 %	1.6 %	16.3 %	86.8 %	23.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.6402 %	99.8152 %	99.3461 %	82.8537 %	95.3924 %	99.3071 %
Concentration per Run 1	96.2377 %	99.9572 %	99.1207 %	81.4292 %	95.2111 %	99.7207 %
Concentration per Run 2	98.5001 %	99.5048 %	99.3481 %	83.5522 %	95.1364 %	98.9364 %
Concentration per Run 3	98.1828 %	99.9835 %	99.5696 %	83.5796 %	95.8297 %	99.2642 %
Concentration RSD	1.3 %	0.3 %	0.2 %	1.5 %	0.4 %	0.4 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-19 WG1935421
Analysis started at: 6/19/2024 11:30:39 AM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0948 ppm	0.0027 ppm	0.0152 ppm	0.1209 ppm	0.0001 ppm	153.4238 ppm
Concentration per Run 1	0.0000 ppm	0.0970 ppm	0.0023 ppm	0.0151 ppm	0.1224 ppm	0.0000 ppm	155.4065 ppm
Concentration per Run 2	0.0000 ppm	0.0980 ppm	0.0035 ppm	0.0155 ppm	0.1211 ppm	0.0002 ppm	153.5970 ppm
Concentration per Run 3	-0.0001 ppm	0.0894 ppm	0.0021 ppm	0.0151 ppm	0.1191 ppm	0.0000 ppm	151.2678 ppm
Concentration RSD	85.0 %	4.9 %	28.3 %	1.2 %	1.4 %	96.0 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0027 ppm	0.0014 ppm	0.0013 ppm	0.7398 ppm	1.6501 ppm	6.8635 ppm
Concentration per Run 1	0.0007 ppm	0.0026 ppm	0.0011 ppm	0.0009 ppm	0.7452 ppm	1.6907 ppm	6.8345 ppm
Concentration per Run 2	0.0006 ppm	0.0026 ppm	0.0013 ppm	0.0017 ppm	0.7413 ppm	1.6566 ppm	6.8704 ppm
Concentration per Run 3	0.0007 ppm	0.0028 ppm	0.0017 ppm	0.0014 ppm	0.7329 ppm	1.6030 ppm	6.8857 ppm
Concentration RSD	5.3 %	4.4 %	21.3 %	29.6 %	0.8 %	2.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2270 ppm	0.0008 ppm	1.3020 ppm	0.0104 ppm	0.1108 ppm	0.0017 ppm	-0.0013 ppm
Concentration per Run 1	0.2291 ppm	0.0008 ppm	1.3100 ppm	0.0102 ppm	0.1112 ppm	0.0014 ppm	-0.0047 ppm
Concentration per Run 2	0.2284 ppm	0.0007 ppm	1.3088 ppm	0.0107 ppm	0.1095 ppm	0.0019 ppm	0.0018 ppm
Concentration per Run 3	0.2234 ppm	0.0009 ppm	1.2870 ppm	0.0104 ppm	0.1116 ppm	0.0020 ppm	-0.0009 ppm
Concentration RSD	1.4 %	11.6 %	1.0 %	2.4 %	1.0 %	18.7 %	258.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.4537 ppm	-0.0001 ppm	0.2636 ppm	0.0026 ppm	-0.0002 ppm	0.0013 ppm	0.3374 ppm
Concentration per Run 1	12.4711 ppm	-0.0001 ppm	0.2668 ppm	0.0027 ppm	-0.0003 ppm	0.0010 ppm	0.3375 ppm
Concentration per Run 2	12.3908 ppm	0.0001 ppm	0.2642 ppm	0.0026 ppm	-0.0005 ppm	0.0011 ppm	0.3356 ppm
Concentration per Run 3	12.4993 ppm	-0.0001 ppm	0.2600 ppm	0.0026 ppm	0.0001 ppm	0.0017 ppm	0.3389 ppm
Concentration RSD	0.5 %	257.3 %	1.3 %	1.5 %	121.2 %	30.7 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.0300 %	98.9817 %	99.2224 %	84.4068 %	95.0647 %	98.8204 %
Concentration per Run 1	97.0505 %	99.2929 %	99.4172 %	84.2304 %	95.0193 %	99.1818 %
Concentration per Run 2	98.0643 %	99.3725 %	99.5802 %	82.9649 %	95.6450 %	98.9189 %
Concentration per Run 3	98.9753 %	98.2797 %	98.6698 %	86.0252 %	94.5299 %	98.3604 %
Concentration RSD	1.0 %	0.6 %	0.5 %	1.8 %	0.6 %	0.4 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432527-20 WG1935421
Analysis started at: 6/19/2024 11:36:51 AM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0595 ppm	0.0020 ppm	0.0151 ppm	0.1099 ppm	0.0001 ppm	150.6599 ppm
Concentration per Run 1	-0.0006 ppm	0.0662 ppm	0.0030 ppm	0.0156 ppm	0.1080 ppm	0.0001 ppm	147.3896 ppm
Concentration per Run 2	-0.0002 ppm	0.0614 ppm	0.0012 ppm	0.0150 ppm	0.1100 ppm	0.0001 ppm	151.3656 ppm
Concentration per Run 3	0.0003 ppm	0.0510 ppm	0.0019 ppm	0.0146 ppm	0.1117 ppm	0.0000 ppm	153.2245 ppm
Concentration RSD	334.4 %	13.1 %	43.2 %	3.3 %	1.7 %	37.6 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	0.0026 ppm	0.0010 ppm	0.0012 ppm	0.4136 ppm	1.5492 ppm	6.5961 ppm
Concentration per Run 1	0.0005 ppm	0.0026 ppm	0.0011 ppm	0.0011 ppm	0.4025 ppm	1.5319 ppm	6.5840 ppm
Concentration per Run 2	0.0005 ppm	0.0027 ppm	0.0009 ppm	0.0013 ppm	0.4176 ppm	1.5292 ppm	6.6123 ppm
Concentration per Run 3	0.0005 ppm	0.0025 ppm	0.0009 ppm	0.0011 ppm	0.4207 ppm	1.5866 ppm	6.5919 ppm
Concentration RSD	4.0 %	4.4 %	11.2 %	9.6 %	2.4 %	2.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2233 ppm	0.0010 ppm	1.2477 ppm	0.0097 ppm	0.0588 ppm	0.0009 ppm	-0.0019 ppm
Concentration per Run 1	0.2183 ppm	0.0012 ppm	1.2193 ppm	0.0094 ppm	0.0592 ppm	0.0012 ppm	-0.0007 ppm
Concentration per Run 2	0.2242 ppm	0.0009 ppm	1.2566 ppm	0.0097 ppm	0.0583 ppm	0.0007 ppm	-0.0023 ppm
Concentration per Run 3	0.2274 ppm	0.0009 ppm	1.2671 ppm	0.0101 ppm	0.0589 ppm	0.0008 ppm	-0.0027 ppm
Concentration RSD	2.1 %	17.9 %	2.0 %	3.3 %	0.8 %	27.8 %	54.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.1390 ppm	-0.0001 ppm	0.2565 ppm	0.0019 ppm	-0.0001 ppm	0.0012 ppm	0.2909 ppm
Concentration per Run 1	10.1240 ppm	-0.0004 ppm	0.2511 ppm	0.0022 ppm	-0.0006 ppm	0.0015 ppm	0.2904 ppm
Concentration per Run 2	10.1529 ppm	0.0000 ppm	0.2577 ppm	0.0020 ppm	-0.0002 ppm	0.0013 ppm	0.2913 ppm
Concentration per Run 3	10.1402 ppm	0.0000 ppm	0.2607 ppm	0.0016 ppm	0.0005 ppm	0.0006 ppm	0.2909 ppm
Concentration RSD	0.1 %	208.8 %	1.9 %	14.0 %	504.2 %	39.7 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5633 %	99.8896 %	99.4493 %	86.6210 %	95.3074 %	99.9295 %
Concentration per Run 1	102.6179 %	100.1669 %	99.5363 %	87.7894 %	95.5063 %	100.3017 %
Concentration per Run 2	99.9157 %	99.6272 %	99.4573 %	86.0288 %	95.2627 %	99.6404 %
Concentration per Run 3	99.1564 %	99.8747 %	99.3542 %	86.0449 %	95.1531 %	99.8465 %
Concentration RSD	1.8 %	0.3 %	0.1 %	1.2 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-02 WG1935424
Analysis started at: 6/19/2024 11:43:03 AM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1075 ppm	0.0001 ppm	0.0047 ppm	0.0506 ppm	0.0000 ppm	70.4714 ppm
Concentration per Run 1	-0.0002 ppm	0.1015 ppm	-0.0006 ppm	0.0047 ppm	0.0492 ppm	0.0001 ppm	68.5266 ppm
Concentration per Run 2	0.0004 ppm	0.1083 ppm	-0.0012 ppm	0.0049 ppm	0.0511 ppm	0.0000 ppm	70.8987 ppm
Concentration per Run 3	0.0000 ppm	0.1125 ppm	0.0019 ppm	0.0046 ppm	0.0516 ppm	0.0000 ppm	71.9888 ppm
Concentration RSD	650.7 %	5.2 %	2,997.6 %	3.3 %	2.5 %	422.3 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0166 ppm	0.0038 ppm	6.0961 ppm	0.0130 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0166 ppm	0.0036 ppm	5.9376 ppm	0.0125 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0165 ppm	0.0061 ppm	6.1118 ppm	0.0129 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0167 ppm	0.0017 ppm	6.2390 ppm	0.0136 ppm
Concentration RSD	3,409.3 %	47.2 %	21.0 %	0.4 %	57.9 %	2.5 %	4.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0133 ppm	125.9929 ppm	0.0055 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0131 ppm	122.7011 ppm	0.0054 ppm	0.0005 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 2	0.0006 ppm	0.0135 ppm	126.4503 ppm	0.0053 ppm	0.0000 ppm	-0.0013 ppm	-0.0006 ppm
Concentration per Run 3	-0.0004 ppm	0.0132 ppm	128.8273 ppm	0.0057 ppm	-0.0005 ppm	0.0012 ppm	-0.0027 ppm
Concentration RSD	1,579.0 %	1.4 %	2.5 %	4.3 %	5,661.0 %	4,053.4 %	78.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.6653 ppm	0.0005 ppm	0.1930 ppm	0.0009 ppm	-0.0010 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 1	0.6647 ppm	0.0005 ppm	0.1873 ppm	0.0006 ppm	-0.0002 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.6651 ppm	0.0006 ppm	0.1944 ppm	0.0011 ppm	-0.0010 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	0.6660 ppm	0.0003 ppm	0.1973 ppm	0.0010 ppm	-0.0016 ppm	0.0011 ppm	-0.0001 ppm
Concentration RSD	0.1 %	29.1 %	2.7 %	30.1 %	73.1 %	3.5 %	88.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0265 %	97.7984 %	98.6184 %	85.6136 %	94.8305 %	98.9284 %
Concentration per Run 1	102.3593 %	98.0091 %	98.6356 %	86.2432 %	94.9241 %	99.1558 %
Concentration per Run 2	99.9095 %	97.4711 %	98.5776 %	85.8571 %	94.9336 %	98.6576 %
Concentration per Run 3	97.8107 %	97.9150 %	98.6420 %	84.7406 %	94.6339 %	98.9718 %
Concentration RSD	2.3 %	0.3 %	0.0 %	0.9 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-03 WG1935424
Analysis started at: 6/19/2024 11:49:18 AM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0343 ppm	0.0026 ppm	0.0081 ppm	0.0360 ppm	0.0001 ppm	73.3913 ppm
Concentration per Run 1	0.0001 ppm	0.0309 ppm	0.0029 ppm	0.0086 ppm	0.0363 ppm	0.0001 ppm	73.6544 ppm
Concentration per Run 2	-0.0004 ppm	0.0360 ppm	0.0045 ppm	0.0079 ppm	0.0357 ppm	0.0000 ppm	73.0966 ppm
Concentration per Run 3	-0.0003 ppm	0.0360 ppm	0.0002 ppm	0.0078 ppm	0.0360 ppm	0.0001 ppm	73.4230 ppm
Concentration RSD	132.2 %	8.5 %	85.9 %	5.5 %	0.9 %	43.9 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0162 ppm	0.0057 ppm	4.1174 ppm	0.0812 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0005 ppm	0.0162 ppm	0.0054 ppm	4.1537 ppm	0.0804 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0159 ppm	0.0071 ppm	4.0902 ppm	0.0824 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0006 ppm	0.0164 ppm	0.0047 ppm	4.1082 ppm	0.0808 ppm
Concentration RSD	280.2 %	20.3 %	40.4 %	1.8 %	22.0 %	0.8 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0139 ppm	127.8553 ppm	0.0071 ppm	-0.0004 ppm	0.0014 ppm	-0.0009 ppm
Concentration per Run 1	0.0007 ppm	0.0139 ppm	128.5345 ppm	0.0070 ppm	-0.0007 ppm	0.0020 ppm	-0.0012 ppm
Concentration per Run 2	-0.0002 ppm	0.0140 ppm	127.0965 ppm	0.0071 ppm	-0.0007 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0140 ppm	127.9351 ppm	0.0072 ppm	0.0002 ppm	0.0019 ppm	-0.0018 ppm
Concentration RSD	281.9 %	0.1 %	0.6 %	1.7 %	126.5 %	62.3 %	122.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9598 ppm	0.0001 ppm	0.1455 ppm	0.0005 ppm	-0.0020 ppm	0.0048 ppm	-0.0005 ppm
Concentration per Run 1	0.9607 ppm	-0.0003 ppm	0.1462 ppm	0.0006 ppm	-0.0025 ppm	0.0049 ppm	-0.0006 ppm
Concentration per Run 2	0.9602 ppm	0.0003 ppm	0.1448 ppm	0.0005 ppm	-0.0006 ppm	0.0048 ppm	-0.0004 ppm
Concentration per Run 3	0.9584 ppm	0.0004 ppm	0.1454 ppm	0.0004 ppm	-0.0029 ppm	0.0047 ppm	-0.0005 ppm
Concentration RSD	0.1 %	356.3 %	0.5 %	29.1 %	62.5 %	1.5 %	15.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.6164 %	98.1439 %	98.6412 %	83.5709 %	95.0207 %	99.2644 %
Concentration per Run 1	96.9980 %	98.3057 %	98.8811 %	82.3315 %	95.0937 %	99.7642 %
Concentration per Run 2	98.1591 %	98.1074 %	98.5302 %	83.9330 %	94.9253 %	98.9260 %
Concentration per Run 3	97.6922 %	98.0184 %	98.5123 %	84.4484 %	95.0430 %	99.1030 %
Concentration RSD	0.6 %	0.1 %	0.2 %	1.3 %	0.1 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 11:55:33 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5038 ppm	0.5123 ppm	0.4903 ppm	0.4892 ppm	0.5034 ppm	0.5007 ppm	0.4965 ppm
Concentration per Run 1	0.5036 ppm	0.5223 ppm	0.4900 ppm	0.4897 ppm	0.5055 ppm	0.5022 ppm	0.4964 ppm
Concentration per Run 2	0.5037 ppm	0.5023 ppm	0.4912 ppm	0.4889 ppm	0.5037 ppm	0.5009 ppm	0.4997 ppm
Concentration per Run 3	0.5040 ppm	0.5125 ppm	0.4897 ppm	0.4891 ppm	0.5010 ppm	0.4990 ppm	0.4935 ppm
Recovery Percentage 1	100.756 %	102.466 %	98.062 %	97.845 %	100.680 %	100.144 %	99.309 %
Concentration RSD	0.0 %	2.0 %	0.2 %	0.1 %	0.5 %	0.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4916 ppm	0.4980 ppm	0.5030 ppm	0.4976 ppm	0.5044 ppm	5.2541 ppm	0.4968 ppm
Concentration per Run 1	0.4925 ppm	0.4988 ppm	0.5033 ppm	0.4978 ppm	0.5044 ppm	5.2465 ppm	0.4970 ppm
Concentration per Run 2	0.4912 ppm	0.4976 ppm	0.5034 ppm	0.4986 ppm	0.5053 ppm	5.2241 ppm	0.4983 ppm
Concentration per Run 3	0.4911 ppm	0.4975 ppm	0.5023 ppm	0.4965 ppm	0.5035 ppm	5.2918 ppm	0.4950 ppm
Recovery Percentage 1	98.316 %	99.595 %	100.596 %	99.527 %	100.881 %	105.082 %	99.356 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	0.2 %	0.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4917 ppm	0.4860 ppm	10.1868 ppm	0.5049 ppm	0.5039 ppm	0.4999 ppm	0.5073 ppm
Concentration per Run 1	0.4910 ppm	0.4845 ppm	10.2192 ppm	0.5049 ppm	0.5046 ppm	0.5004 ppm	0.5073 ppm
Concentration per Run 2	0.4924 ppm	0.4862 ppm	10.1849 ppm	0.5049 ppm	0.5047 ppm	0.4997 ppm	0.5106 ppm
Concentration per Run 3	0.4918 ppm	0.4873 ppm	10.1562 ppm	0.5048 ppm	0.5026 ppm	0.4997 ppm	0.5039 ppm
Recovery Percentage 1	98.344 %	97.201 %	101.868 %	100.974 %	100.790 %	99.988 %	101.455 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.0 %	0.2 %	0.1 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6172 ppm	0.4934 ppm	0.4926 ppm	0.4902 ppm	0.4964 ppm	0.5016 ppm	0.5047 ppm
Concentration per Run 1	5.6224 ppm	0.4936 ppm	0.4943 ppm	0.4905 ppm	0.4966 ppm	0.5023 ppm	0.5050 ppm
Concentration per Run 2	5.6195 ppm	0.4936 ppm	0.4929 ppm	0.4892 ppm	0.4972 ppm	0.5021 ppm	0.5049 ppm
Concentration per Run 3	5.6097 ppm	0.4931 ppm	0.4906 ppm	0.4908 ppm	0.4954 ppm	0.5004 ppm	0.5043 ppm
Recovery Percentage 1	106.994 %	98.686 %	98.517 %	98.037 %	99.280 %	100.326 %	100.946 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %	0.2 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.3980 %	102.4425 %	102.8149 %	86.6687 %	101.3956 %	103.0202 %
Concentration per Run 1	100.2973 %	102.4008 %	102.9198 %	86.6041 %	101.3409 %	103.1209 %
Concentration per Run 2	100.1283 %	102.5374 %	102.9829 %	86.5303 %	101.4549 %	102.9943 %
Concentration per Run 3	100.7683 %	102.3894 %	102.5422 %	86.8717 %	101.3911 %	102.9455 %
Recovery Percentage 1						
Concentration RSD	0.3 %	0.1 %	0.2 %	0.2 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 12:01:38 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0013 ppm	0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0287 ppm
Concentration per Run 1	-0.0002 ppm	-0.0128 ppm	0.0013 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0260 ppm
Concentration per Run 2	-0.0005 ppm	0.0077 ppm	-0.0004 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0228 ppm
Concentration per Run 3	0.0002 ppm	0.0012 ppm	-0.0006 ppm	0.0016 ppm	0.0001 ppm	0.0000 ppm	0.0374 ppm
Recovery Percentage 1	-2.530 %	-1.295 %	1.944 %	3.187 %	1.070 %	0.179 %	28.694 %
Concentration RSD	214.5 %	809.4 %	1,067.4 %	61.0 %	122.7 %	627.2 %	26.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0174 ppm	0.0028 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0006 ppm	0.0002 ppm	0.0012 ppm	-0.0334 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	-0.0001 ppm	-0.0006 ppm	-0.0014 ppm	0.0036 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	-0.0173 ppm	0.0028 ppm
Recovery Percentage 1	0.801 %	-0.699 %	-4.923 %	1.069 %	0.752 %	-0.694 %	2.763 %
Concentration RSD	47.9 %	124.0 %	47.7 %	159.3 %	244.4 %	92.2 %	32.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0013 ppm	-0.0404 ppm	0.0004 ppm	-0.0005 ppm	0.0013 ppm	-0.0016 ppm
Concentration per Run 1	-0.0002 ppm	0.0015 ppm	-0.0415 ppm	0.0003 ppm	-0.0003 ppm	0.0020 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	-0.0291 ppm	0.0003 ppm	-0.0001 ppm	0.0012 ppm	-0.0027 ppm
Concentration per Run 3	0.0003 ppm	0.0011 ppm	-0.0506 ppm	0.0004 ppm	-0.0013 ppm	0.0007 ppm	-0.0013 ppm
Recovery Percentage 1	0.529 %	2.519 %	-2.021 %	1.466 %	-5.471 %	2.604 %	-15.958 %
Concentration RSD	474.2 %	19.3 %	26.7 %	17.1 %	118.8 %	50.8 %	63.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0006 ppm	-0.0005 ppm	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	0.0005 ppm	-0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0009 ppm	-0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.0004 ppm	-0.0006 ppm	0.0001 ppm	-0.0006 ppm	-0.0009 ppm	0.0002 ppm	-0.0004 ppm
Recovery Percentage 1	0.122 %	-1.097 %	1.192 %	-2.346 %	-1.611 %	1.170 %	-7.360 %
Concentration RSD	44.1 %	19.2 %	104.9 %	151.8 %	161.5 %	140.1 %	21.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2965 %	102.7876 %	103.0688 %	79.5862 %	98.8314 %	99.3942 %
Concentration per Run 1	101.1308 %	102.5804 %	103.3422 %	77.7841 %	98.7170 %	99.1041 %
Concentration per Run 2	100.0393 %	102.9515 %	103.0775 %	80.0434 %	98.9204 %	99.5825 %
Concentration per Run 3	99.7195 %	102.8309 %	102.7868 %	80.9311 %	98.8569 %	99.4961 %
Recovery Percentage 1						
Concentration RSD	0.7 %	0.2 %	0.3 %	2.0 %	0.1 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-01 WG1935424
Analysis started at: 6/19/2024 12:12:04 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0886 ppm	0.0009 ppm	0.0051 ppm	0.0450 ppm	0.0000 ppm	68.7011 ppm
Concentration per Run 1	-0.0006 ppm	0.0748 ppm	0.0009 ppm	0.0052 ppm	0.0440 ppm	0.0001 ppm	67.5444 ppm
Concentration per Run 2	-0.0003 ppm	0.0908 ppm	0.0013 ppm	0.0053 ppm	0.0450 ppm	0.0000 ppm	68.5971 ppm
Concentration per Run 3	0.0005 ppm	0.1002 ppm	0.0004 ppm	0.0048 ppm	0.0461 ppm	0.0000 ppm	69.9618 ppm
Concentration RSD	362.4 %	14.5 %	57.9 %	5.2 %	2.4 %	389.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0176 ppm	0.0020 ppm	5.6924 ppm	0.0207 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0177 ppm	0.0034 ppm	5.6116 ppm	0.0200 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0177 ppm	0.0003 ppm	5.6448 ppm	0.0210 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0174 ppm	0.0024 ppm	5.8209 ppm	0.0210 ppm
Concentration RSD	141.1 %	74.1 %	7.3 %	0.9 %	76.4 %	2.0 %	2.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0134 ppm	121.8409 ppm	0.0053 ppm	-0.0003 ppm	0.0004 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0135 ppm	119.9582 ppm	0.0052 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 2	0.0002 ppm	0.0131 ppm	121.7658 ppm	0.0055 ppm	-0.0009 ppm	0.0009 ppm	0.0053 ppm
Concentration per Run 3	0.0001 ppm	0.0135 ppm	123.7989 ppm	0.0052 ppm	0.0002 ppm	0.0000 ppm	-0.0014 ppm
Concentration RSD	167.1 %	2.0 %	1.6 %	3.8 %	199.5 %	144.7 %	237.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7721 ppm	0.0003 ppm	0.1747 ppm	0.0009 ppm	-0.0006 ppm	0.0013 ppm	-0.0006 ppm
Concentration per Run 1	0.7712 ppm	-0.0002 ppm	0.1718 ppm	0.0008 ppm	-0.0012 ppm	0.0015 ppm	-0.0007 ppm
Concentration per Run 2	0.7653 ppm	0.0005 ppm	0.1743 ppm	0.0011 ppm	0.0006 ppm	0.0011 ppm	-0.0005 ppm
Concentration per Run 3	0.7800 ppm	0.0004 ppm	0.1780 ppm	0.0008 ppm	-0.0012 ppm	0.0011 ppm	-0.0006 ppm
Concentration RSD	1.0 %	153.7 %	1.8 %	16.6 %	179.2 %	19.9 %	11.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.2177 %	97.7463 %	98.2135 %	97.0801 %	94.7399 %	99.5024 %
Concentration per Run 1	99.8712 %	97.4841 %	98.4229 %	101.6445 %	94.8464 %	99.3518 %
Concentration per Run 2	98.0852 %	97.8600 %	98.4275 %	96.5644 %	95.3405 %	99.7815 %
Concentration per Run 3	96.6968 %	97.8948 %	97.7901 %	93.0313 %	94.0326 %	99.3738 %
Concentration RSD	1.6 %	0.2 %	0.4 %	4.5 %	0.7 %	0.2 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935424-3 WG1935424
Analysis started at: 6/19/2024 12:18:20 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0464 ppm	2.0139 ppm	0.1153 ppm	0.8994 ppm	1.9075 ppm	0.0461 ppm	78.2714 ppm
Concentration per Run 1	0.0464 ppm	2.0001 ppm	0.1173 ppm	0.9057 ppm	1.9061 ppm	0.0459 ppm	78.0907 ppm
Concentration per Run 2	0.0473 ppm	2.0084 ppm	0.1146 ppm	0.8999 ppm	1.9007 ppm	0.0461 ppm	78.0613 ppm
Concentration per Run 3	0.0456 ppm	2.0333 ppm	0.1139 ppm	0.8927 ppm	1.9157 ppm	0.0462 ppm	78.6621 ppm
Concentration RSD	1.8 %	0.9 %	1.6 %	0.7 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0483 ppm	0.4508 ppm	0.1830 ppm	0.2513 ppm	0.9029 ppm	15.0250 ppm	8.4081 ppm
Concentration per Run 1	0.0485 ppm	0.4537 ppm	0.1831 ppm	0.2519 ppm	0.9035 ppm	15.0091 ppm	8.4192 ppm
Concentration per Run 2	0.0484 ppm	0.4510 ppm	0.1836 ppm	0.2522 ppm	0.8951 ppm	14.9758 ppm	8.4545 ppm
Concentration per Run 3	0.0480 ppm	0.4477 ppm	0.1823 ppm	0.2499 ppm	0.9101 ppm	15.0899 ppm	8.3507 ppm
Concentration RSD	0.6 %	0.7 %	0.4 %	0.5 %	0.8 %	0.4 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4398 ppm	0.9469 ppm	130.6290 ppm	0.4499 ppm	0.4909 ppm	0.4688 ppm	0.1119 ppm
Concentration per Run 1	0.4387 ppm	0.9492 ppm	130.7290 ppm	0.4526 ppm	0.4929 ppm	0.4709 ppm	0.1109 ppm
Concentration per Run 2	0.4397 ppm	0.9494 ppm	130.1681 ppm	0.4501 ppm	0.4913 ppm	0.4713 ppm	0.1117 ppm
Concentration per Run 3	0.4411 ppm	0.9421 ppm	130.9898 ppm	0.4469 ppm	0.4884 ppm	0.4642 ppm	0.1131 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.6 %	0.5 %	0.9 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.7786 ppm	0.8999 ppm	1.0450 ppm	0.8870 ppm	0.1063 ppm	0.4698 ppm	0.4559 ppm
Concentration per Run 1	1.7880 ppm	0.9038 ppm	1.0437 ppm	0.8892 ppm	0.1065 ppm	0.4705 ppm	0.4587 ppm
Concentration per Run 2	1.7823 ppm	0.9015 ppm	1.0422 ppm	0.8906 ppm	0.1069 ppm	0.4724 ppm	0.4565 ppm
Concentration per Run 3	1.7654 ppm	0.8944 ppm	1.0492 ppm	0.8813 ppm	0.1055 ppm	0.4665 ppm	0.4524 ppm
Concentration RSD	0.7 %	0.5 %	0.4 %	0.6 %	0.7 %	0.6 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.0951 %	97.9381 %	97.8810 %	84.1034 %	94.4575 %	99.1773 %
Concentration per Run 1	98.1054 %	97.9077 %	97.6869 %	84.3481 %	93.8358 %	99.0436 %
Concentration per Run 2	98.2331 %	97.5586 %	97.8698 %	83.3892 %	94.3377 %	98.6254 %
Concentration per Run 3	97.9468 %	98.3480 %	98.0862 %	84.5730 %	95.1989 %	99.8630 %
Concentration RSD	0.1 %	0.4 %	0.2 %	0.7 %	0.7 %	0.6 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1935424-4 WG1935424
Analysis started at: 6/19/2024 12:24:25 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0942 ppm	0.0007 ppm	0.0065 ppm	0.0465 ppm	0.0000 ppm	70.8146 ppm
Concentration per Run 1	-0.0004 ppm	0.0783 ppm	0.0001 ppm	0.0064 ppm	0.0452 ppm	-0.0001 ppm	68.9758 ppm
Concentration per Run 2	0.0005 ppm	0.1109 ppm	-0.0001 ppm	0.0064 ppm	0.0465 ppm	0.0001 ppm	71.1844 ppm
Concentration per Run 3	-0.0005 ppm	0.0934 ppm	0.0020 ppm	0.0068 ppm	0.0478 ppm	0.0000 ppm	72.2836 ppm
Concentration RSD	411.2 %	17.3 %	171.5 %	3.5 %	2.8 %	530.7 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0184 ppm	0.0041 ppm	5.8967 ppm	0.0198 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0184 ppm	0.0039 ppm	5.7694 ppm	0.0209 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0005 ppm	0.0182 ppm	0.0031 ppm	5.9056 ppm	0.0189 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0185 ppm	0.0052 ppm	6.0152 ppm	0.0196 ppm
Concentration RSD	308.1 %	78.5 %	26.3 %	0.7 %	26.2 %	2.1 %	5.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0156 ppm	125.2407 ppm	0.0056 ppm	-0.0009 ppm	0.0014 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0159 ppm	122.3739 ppm	0.0060 ppm	-0.0003 ppm	0.0010 ppm	-0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0157 ppm	125.6449 ppm	0.0054 ppm	-0.0016 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0004 ppm	0.0153 ppm	127.7034 ppm	0.0055 ppm	-0.0006 ppm	0.0022 ppm	-0.0030 ppm
Concentration RSD	255.2 %	2.0 %	2.1 %	6.2 %	77.5 %	49.8 %	133.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8026 ppm	0.0003 ppm	0.1800 ppm	0.0009 ppm	-0.0005 ppm	0.0014 ppm	-0.0006 ppm
Concentration per Run 1	0.7994 ppm	-0.0003 ppm	0.1755 ppm	0.0012 ppm	-0.0002 ppm	0.0014 ppm	-0.0006 ppm
Concentration per Run 2	0.8041 ppm	-0.0001 ppm	0.1809 ppm	0.0007 ppm	-0.0013 ppm	0.0012 ppm	-0.0006 ppm
Concentration per Run 3	0.8043 ppm	0.0012 ppm	0.1836 ppm	0.0007 ppm	0.0000 ppm	0.0015 ppm	-0.0007 ppm
Concentration RSD	0.3 %	305.4 %	2.3 %	31.8 %	142.2 %	10.6 %	9.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.2911 %	97.5005 %	98.1426 %	85.5249 %	95.0000 %	99.8456 %
Concentration per Run 1	101.2204 %	98.5529 %	98.2659 %	86.5634 %	95.3781 %	100.3619 %
Concentration per Run 2	98.9860 %	97.3269 %	98.1294 %	85.5502 %	94.9309 %	100.4559 %
Concentration per Run 3	97.6668 %	96.6218 %	98.0325 %	84.4611 %	94.6911 %	98.7190 %
Concentration RSD	1.8 %	1.0 %	0.1 %	1.2 %	0.4 %	1.0 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-04 WG1935424
Analysis started at: 6/19/2024 12:30:43 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.1111 ppm	0.0005 ppm	0.0041 ppm	0.0912 ppm	0.0000 ppm	78.5837 ppm
Concentration per Run 1	-0.0001 ppm	0.1192 ppm	-0.0004 ppm	0.0040 ppm	0.0917 ppm	0.0000 ppm	79.1082 ppm
Concentration per Run 2	-0.0001 ppm	0.1053 ppm	0.0020 ppm	0.0040 ppm	0.0898 ppm	0.0001 ppm	77.6144 ppm
Concentration per Run 3	-0.0006 ppm	0.1089 ppm	-0.0002 ppm	0.0042 ppm	0.0920 ppm	0.0001 ppm	79.0286 ppm
Concentration RSD	94.9 %	6.5 %	289.3 %	3.4 %	1.3 %	176.0 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0008 ppm	0.0006 ppm	0.0266 ppm	0.0031 ppm	5.4194 ppm	0.0097 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0005 ppm	0.0269 ppm	0.0011 ppm	5.4476 ppm	0.0103 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0007 ppm	0.0265 ppm	0.0058 ppm	5.3902 ppm	0.0080 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0007 ppm	0.0262 ppm	0.0023 ppm	5.4203 ppm	0.0109 ppm
Concentration RSD	81.2 %	15.1 %	20.3 %	1.2 %	78.5 %	0.5 %	15.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0119 ppm	127.1807 ppm	0.0073 ppm	-0.0011 ppm	0.0009 ppm	-0.0020 ppm
Concentration per Run 1	-0.0003 ppm	0.0119 ppm	128.1407 ppm	0.0072 ppm	-0.0005 ppm	0.0023 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0118 ppm	125.4248 ppm	0.0072 ppm	-0.0018 ppm	0.0002 ppm	-0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0119 ppm	127.9766 ppm	0.0074 ppm	-0.0008 ppm	0.0003 ppm	-0.0044 ppm
Concentration RSD	116.2 %	0.5 %	1.2 %	1.8 %	65.6 %	127.3 %	104.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3916 ppm	0.0003 ppm	0.2530 ppm	0.0011 ppm	-0.0011 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 1	0.3924 ppm	0.0000 ppm	0.2547 ppm	0.0009 ppm	-0.0001 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 2	0.3897 ppm	0.0006 ppm	0.2490 ppm	0.0013 ppm	-0.0020 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 3	0.3927 ppm	0.0003 ppm	0.2552 ppm	0.0011 ppm	-0.0013 ppm	0.0010 ppm	-0.0002 ppm
Concentration RSD	0.4 %	97.9 %	1.4 %	19.1 %	82.0 %	32.1 %	20.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.9268 %	97.8949 %	98.4889 %	82.7605 %	94.8361 %	99.4425 %
Concentration per Run 1	97.7816 %	97.9482 %	98.1736 %	81.2032 %	94.7210 %	99.6182 %
Concentration per Run 2	98.8074 %	97.8627 %	98.7454 %	83.8818 %	95.2326 %	99.2276 %
Concentration per Run 3	97.1916 %	97.8740 %	98.5476 %	83.1964 %	94.5548 %	99.4818 %
Concentration RSD	0.8 %	0.0 %	0.3 %	1.7 %	0.4 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-05 WG1935424
Analysis started at: 6/19/2024 12:36:58 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0516 ppm	0.0002 ppm	0.0065 ppm	0.0401 ppm	-0.0001 ppm	67.3865 ppm
Concentration per Run 1	-0.0011 ppm	0.0463 ppm	0.0013 ppm	0.0061 ppm	0.0385 ppm	-0.0001 ppm	64.9448 ppm
Concentration per Run 2	-0.0001 ppm	0.0542 ppm	-0.0005 ppm	0.0073 ppm	0.0403 ppm	-0.0001 ppm	67.9845 ppm
Concentration per Run 3	-0.0002 ppm	0.0541 ppm	-0.0002 ppm	0.0062 ppm	0.0414 ppm	-0.0001 ppm	69.2300 ppm
Concentration RSD	117.8 %	8.8 %	489.0 %	10.2 %	3.7 %	31.4 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0139 ppm	0.0049 ppm	3.3005 ppm	0.0557 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0139 ppm	0.0047 ppm	3.1741 ppm	0.0543 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0138 ppm	0.0043 ppm	3.3027 ppm	0.0568 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0139 ppm	0.0057 ppm	3.4245 ppm	0.0560 ppm
Concentration RSD	609.7 %	25.9 %	120.2 %	0.4 %	14.8 %	3.8 %	2.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0120 ppm	115.7660 ppm	0.0061 ppm	-0.0007 ppm	0.0012 ppm	-0.0013 ppm
Concentration per Run 1	0.0001 ppm	0.0121 ppm	111.8561 ppm	0.0062 ppm	-0.0014 ppm	0.0009 ppm	-0.0016 ppm
Concentration per Run 2	0.0002 ppm	0.0121 ppm	116.5467 ppm	0.0062 ppm	0.0005 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0120 ppm	118.8952 ppm	0.0058 ppm	-0.0011 ppm	0.0014 ppm	-0.0024 ppm
Concentration RSD	420.3 %	0.5 %	3.1 %	3.5 %	144.6 %	23.2 %	89.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8276 ppm	0.0002 ppm	0.1442 ppm	0.0008 ppm	-0.0014 ppm	0.0034 ppm	-0.0005 ppm
Concentration per Run 1	0.8254 ppm	0.0001 ppm	0.1390 ppm	0.0010 ppm	-0.0017 ppm	0.0037 ppm	-0.0004 ppm
Concentration per Run 2	0.8292 ppm	0.0000 ppm	0.1454 ppm	0.0007 ppm	-0.0015 ppm	0.0033 ppm	-0.0006 ppm
Concentration per Run 3	0.8282 ppm	0.0005 ppm	0.1482 ppm	0.0005 ppm	-0.0012 ppm	0.0034 ppm	-0.0005 ppm
Concentration RSD	0.2 %	139.4 %	3.3 %	32.4 %	17.3 %	6.3 %	13.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.1268 %	98.4625 %	99.0770 %	86.6071 %	95.8429 %	100.4011 %
Concentration per Run 1	104.7741 %	98.2193 %	99.0350 %	87.8861 %	95.9086 %	100.0691 %
Concentration per Run 2	100.4488 %	98.4784 %	99.1673 %	86.6836 %	95.8155 %	100.3843 %
Concentration per Run 3	98.1574 %	98.6897 %	99.0289 %	85.2515 %	95.8047 %	100.7498 %
Concentration RSD	3.3 %	0.2 %	0.1 %	1.5 %	0.1 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-06 WG1935424
Analysis started at: 6/19/2024 12:43:13 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.1034 ppm	0.0005 ppm	0.0024 ppm	0.0992 ppm	0.0000 ppm	75.2708 ppm
Concentration per Run 1	-0.0004 ppm	0.1098 ppm	-0.0003 ppm	0.0022 ppm	0.1010 ppm	0.0000 ppm	76.6025 ppm
Concentration per Run 2	-0.0002 ppm	0.1140 ppm	0.0034 ppm	0.0025 ppm	0.0988 ppm	-0.0001 ppm	74.9710 ppm
Concentration per Run 3	0.0000 ppm	0.0863 ppm	-0.0017 ppm	0.0026 ppm	0.0978 ppm	0.0001 ppm	74.2387 ppm
Concentration RSD	109.7 %	14.4 %	558.3 %	9.5 %	1.7 %	466.2 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0084 ppm	0.0024 ppm	6.8224 ppm	0.0112 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0087 ppm	0.0052 ppm	6.9620 ppm	0.0101 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0079 ppm	-0.0005 ppm	6.7914 ppm	0.0140 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0085 ppm	0.0025 ppm	6.7138 ppm	0.0095 ppm
Concentration RSD	79.8 %	251.9 %	28.4 %	5.1 %	118.2 %	1.9 %	22.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0107 ppm	122.6178 ppm	0.0035 ppm	0.0002 ppm	0.0010 ppm	-0.0006 ppm
Concentration per Run 1	-0.0002 ppm	0.0107 ppm	124.8371 ppm	0.0037 ppm	0.0002 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 2	0.0004 ppm	0.0108 ppm	121.9852 ppm	0.0033 ppm	0.0008 ppm	0.0008 ppm	-0.0035 ppm
Concentration per Run 3	-0.0002 ppm	0.0107 ppm	121.0311 ppm	0.0035 ppm	-0.0005 ppm	0.0018 ppm	0.0024 ppm
Concentration RSD	2,313.2 %	0.4 %	1.6 %	4.6 %	379.0 %	79.9 %	510.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3189 ppm	-0.0001 ppm	0.2408 ppm	0.0011 ppm	-0.0007 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 1	0.3201 ppm	-0.0004 ppm	0.2454 ppm	0.0008 ppm	0.0000 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 2	0.3178 ppm	-0.0001 ppm	0.2400 ppm	0.0014 ppm	-0.0010 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.3189 ppm	0.0001 ppm	0.2371 ppm	0.0011 ppm	-0.0011 ppm	0.0002 ppm	-0.0003 ppm
Concentration RSD	0.4 %	150.9 %	1.7 %	25.2 %	88.5 %	57.8 %	25.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.1503 %	97.7423 %	98.0768 %	83.3432 %	94.4467 %	99.8388 %
Concentration per Run 1	95.9275 %	97.9104 %	98.0857 %	82.5261 %	93.8623 %	99.7798 %
Concentration per Run 2	97.5817 %	97.8675 %	98.0190 %	82.9902 %	94.8234 %	100.2053 %
Concentration per Run 3	97.9416 %	97.4492 %	98.1257 %	84.5132 %	94.6546 %	99.5314 %
Concentration RSD	1.1 %	0.3 %	0.1 %	1.2 %	0.5 %	0.3 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-07 WG1935424
Analysis started at: 6/19/2024 12:49:30 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.1139 ppm	-0.0001 ppm	0.0023 ppm	0.0773 ppm	0.0000 ppm	68.8243 ppm
Concentration per Run 1	-0.0003 ppm	0.1224 ppm	-0.0007 ppm	0.0023 ppm	0.0766 ppm	0.0000 ppm	68.2096 ppm
Concentration per Run 2	-0.0002 ppm	0.1105 ppm	-0.0002 ppm	0.0023 ppm	0.0776 ppm	0.0001 ppm	68.7121 ppm
Concentration per Run 3	-0.0001 ppm	0.1088 ppm	0.0005 ppm	0.0023 ppm	0.0778 ppm	0.0000 ppm	69.5513 ppm
Concentration RSD	56.3 %	6.5 %	481.9 %	2.0 %	0.8 %	33.9 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0108 ppm	0.0031 ppm	7.0133 ppm	0.0112 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0110 ppm	0.0027 ppm	6.9259 ppm	0.0117 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0103 ppm	0.0013 ppm	7.0077 ppm	0.0105 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0111 ppm	0.0052 ppm	7.1063 ppm	0.0114 ppm
Concentration RSD	135.9 %	96.8 %	55.4 %	4.2 %	63.9 %	1.3 %	5.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0084 ppm	117.8824 ppm	0.0041 ppm	-0.0006 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	0.0086 ppm	116.8793 ppm	0.0043 ppm	-0.0011 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0005 ppm	0.0082 ppm	117.7706 ppm	0.0043 ppm	-0.0001 ppm	0.0011 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	0.0083 ppm	118.9973 ppm	0.0038 ppm	-0.0006 ppm	0.0002 ppm	0.0004 ppm
Concentration RSD	266.3 %	2.3 %	0.9 %	7.1 %	81.4 %	140.8 %	612.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4772 ppm	-0.0001 ppm	0.2194 ppm	0.0007 ppm	-0.0018 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 1	0.4794 ppm	-0.0002 ppm	0.2171 ppm	0.0010 ppm	-0.0028 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 2	0.4744 ppm	0.0003 ppm	0.2196 ppm	0.0007 ppm	0.0003 ppm	0.0005 ppm	-0.0006 ppm
Concentration per Run 3	0.4776 ppm	-0.0003 ppm	0.2215 ppm	0.0005 ppm	-0.0030 ppm	0.0006 ppm	-0.0004 ppm
Concentration RSD	0.5 %	368.5 %	1.0 %	29.1 %	99.6 %	22.0 %	15.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7080 %	97.5583 %	98.4980 %	85.8101 %	95.3839 %	99.8622 %
Concentration per Run 1	101.9108 %	97.0252 %	98.2548 %	86.0943 %	94.9364 %	99.1448 %
Concentration per Run 2	100.7612 %	98.1688 %	98.5292 %	85.8005 %	95.6204 %	100.4334 %
Concentration per Run 3	99.4521 %	97.4811 %	98.7099 %	85.5356 %	95.5949 %	100.0084 %
Concentration RSD	1.2 %	0.6 %	0.2 %	0.3 %	0.4 %	0.7 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-08 WG1935424
Analysis started at: 6/19/2024 12:55:46 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0973 ppm	0.0007 ppm	0.0069 ppm	0.0503 ppm	0.0000 ppm	67.8904 ppm
Concentration per Run 1	0.0003 ppm	0.0978 ppm	0.0025 ppm	0.0070 ppm	0.0494 ppm	0.0000 ppm	66.4135 ppm
Concentration per Run 2	0.0005 ppm	0.1044 ppm	0.0004 ppm	0.0073 ppm	0.0505 ppm	0.0000 ppm	68.3264 ppm
Concentration per Run 3	-0.0002 ppm	0.0897 ppm	-0.0007 ppm	0.0064 ppm	0.0511 ppm	0.0000 ppm	68.9315 ppm
Concentration RSD	158.2 %	7.6 %	215.1 %	6.6 %	1.7 %	103.1 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0090 ppm	0.0051 ppm	5.2472 ppm	0.0353 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0088 ppm	0.0066 ppm	5.1309 ppm	0.0363 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0090 ppm	0.0037 ppm	5.3066 ppm	0.0344 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0091 ppm	0.0050 ppm	5.3040 ppm	0.0351 ppm
Concentration RSD	162.1 %	17.7 %	148.4 %	1.9 %	28.7 %	1.9 %	2.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0027 ppm	120.8312 ppm	0.0046 ppm	-0.0005 ppm	0.0005 ppm	-0.0018 ppm
Concentration per Run 1	0.0010 ppm	0.0027 ppm	118.3860 ppm	0.0046 ppm	-0.0005 ppm	0.0011 ppm	-0.0022 ppm
Concentration per Run 2	0.0005 ppm	0.0028 ppm	121.6608 ppm	0.0046 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0005 ppm	0.0027 ppm	122.4466 ppm	0.0047 ppm	-0.0009 ppm	0.0000 ppm	-0.0041 ppm
Concentration RSD	43.3 %	3.3 %	1.8 %	1.6 %	81.6 %	125.5 %	134.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7553 ppm	0.0008 ppm	0.2521 ppm	0.0008 ppm	-0.0015 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 1	0.7660 ppm	0.0009 ppm	0.2468 ppm	0.0008 ppm	-0.0011 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 2	0.7510 ppm	0.0005 ppm	0.2538 ppm	0.0010 ppm	-0.0019 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 3	0.7488 ppm	0.0010 ppm	0.2555 ppm	0.0007 ppm	-0.0015 ppm	0.0017 ppm	-0.0001 ppm
Concentration RSD	1.2 %	32.1 %	1.8 %	16.8 %	26.4 %	10.6 %	24.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7868 %	98.4798 %	98.2142 %	87.5949 %	94.3468 %	100.0256 %
Concentration per Run 1	102.8749 %	98.7536 %	96.9671 %	88.1991 %	92.9157 %	100.1297 %
Concentration per Run 2	99.8962 %	98.3773 %	98.7531 %	87.0617 %	94.9696 %	100.0796 %
Concentration per Run 3	99.5892 %	98.3085 %	98.9224 %	87.5241 %	95.1552 %	99.8675 %
Concentration RSD	1.8 %	0.2 %	1.1 %	0.7 %	1.3 %	0.1 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-09 WG1935424
Analysis started at: 6/19/2024 1:02:03 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0541 ppm	0.0008 ppm	0.0091 ppm	0.0347 ppm	-0.0001 ppm	62.8620 ppm
Concentration per Run 1	0.0003 ppm	0.0539 ppm	0.0001 ppm	0.0096 ppm	0.0347 ppm	-0.0002 ppm	63.5450 ppm
Concentration per Run 2	0.0000 ppm	0.0574 ppm	0.0016 ppm	0.0088 ppm	0.0344 ppm	0.0000 ppm	62.2790 ppm
Concentration per Run 3	-0.0001 ppm	0.0509 ppm	0.0006 ppm	0.0090 ppm	0.0351 ppm	-0.0001 ppm	62.7621 ppm
Concentration RSD	328.0 %	6.1 %	100.7 %	4.3 %	0.9 %	108.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0056 ppm	0.0037 ppm	3.8528 ppm	0.0816 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0058 ppm	0.0036 ppm	3.9110 ppm	0.0828 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0054 ppm	0.0033 ppm	3.8348 ppm	0.0822 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0057 ppm	0.0041 ppm	3.8125 ppm	0.0798 ppm
Concentration RSD	830.6 %	140.4 %	38.3 %	3.9 %	10.8 %	1.3 %	1.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0034 ppm	113.4650 ppm	0.0045 ppm	-0.0004 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 1	0.0004 ppm	0.0032 ppm	115.1084 ppm	0.0046 ppm	-0.0008 ppm	-0.0001 ppm	-0.0032 ppm
Concentration per Run 2	0.0003 ppm	0.0035 ppm	112.2749 ppm	0.0045 ppm	0.0002 ppm	0.0014 ppm	0.0019 ppm
Concentration per Run 3	-0.0001 ppm	0.0035 ppm	113.0115 ppm	0.0045 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm
Concentration RSD	121.5 %	5.5 %	1.3 %	1.3 %	124.8 %	216.8 %	520.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0013 ppm	0.0004 ppm	0.1989 ppm	0.0007 ppm	-0.0003 ppm	0.0036 ppm	-0.0005 ppm
Concentration per Run 1	0.9989 ppm	0.0005 ppm	0.2013 ppm	0.0005 ppm	-0.0005 ppm	0.0036 ppm	-0.0004 ppm
Concentration per Run 2	1.0003 ppm	0.0004 ppm	0.1966 ppm	0.0006 ppm	-0.0005 ppm	0.0032 ppm	-0.0005 ppm
Concentration per Run 3	1.0045 ppm	0.0002 ppm	0.1988 ppm	0.0009 ppm	0.0000 ppm	0.0040 ppm	-0.0005 ppm
Concentration RSD	0.3 %	39.8 %	1.2 %	32.1 %	80.5 %	10.6 %	13.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.9755 %	98.1546 %	99.1745 %	83.8803 %	95.5162 %	100.2082 %
Concentration per Run 1	97.6593 %	98.0487 %	98.9533 %	81.8348 %	95.6061 %	100.0511 %
Concentration per Run 2	99.9660 %	98.4597 %	99.1159 %	84.7725 %	95.5854 %	100.5750 %
Concentration per Run 3	99.3012 %	97.9556 %	99.4544 %	85.0336 %	95.3572 %	99.9986 %
Concentration RSD	1.2 %	0.3 %	0.3 %	2.1 %	0.1 %	0.3 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-10 WG1935424
Analysis started at: 6/19/2024 1:08:19 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0679 ppm	0.0002 ppm	0.0084 ppm	0.0397 ppm	0.0000 ppm	67.8016 ppm
Concentration per Run 1	-0.0002 ppm	0.0650 ppm	-0.0002 ppm	0.0083 ppm	0.0399 ppm	0.0000 ppm	68.1281 ppm
Concentration per Run 2	-0.0001 ppm	0.0776 ppm	0.0012 ppm	0.0084 ppm	0.0396 ppm	0.0000 ppm	67.4632 ppm
Concentration per Run 3	0.0004 ppm	0.0611 ppm	-0.0004 ppm	0.0083 ppm	0.0396 ppm	0.0000 ppm	67.8134 ppm
Concentration RSD	24,587.2 %	12.7 %	447.4 %	1.0 %	0.5 %	855.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0049 ppm	0.0038 ppm	4.0791 ppm	0.0717 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0046 ppm	0.0036 ppm	4.0607 ppm	0.0734 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0051 ppm	0.0046 ppm	4.0460 ppm	0.0713 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0049 ppm	0.0033 ppm	4.1305 ppm	0.0706 ppm
Concentration RSD	70.4 %	74.6 %	201.5 %	4.5 %	18.7 %	1.1 %	2.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0025 ppm	121.1803 ppm	0.0039 ppm	-0.0007 ppm	0.0002 ppm	-0.0006 ppm
Concentration per Run 1	0.0004 ppm	0.0026 ppm	121.8038 ppm	0.0038 ppm	0.0002 ppm	-0.0007 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0023 ppm	120.4950 ppm	0.0036 ppm	-0.0008 ppm	-0.0005 ppm	-0.0006 ppm
Concentration per Run 3	0.0002 ppm	0.0026 ppm	121.2420 ppm	0.0041 ppm	-0.0013 ppm	0.0016 ppm	-0.0008 ppm
Concentration RSD	73.9 %	6.4 %	0.5 %	6.7 %	119.0 %	775.8 %	23.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9606 ppm	0.0006 ppm	0.2184 ppm	0.0006 ppm	-0.0016 ppm	0.0028 ppm	-0.0005 ppm
Concentration per Run 1	0.9618 ppm	0.0006 ppm	0.2193 ppm	0.0009 ppm	-0.0014 ppm	0.0028 ppm	-0.0005 ppm
Concentration per Run 2	0.9601 ppm	0.0008 ppm	0.2169 ppm	0.0006 ppm	-0.0025 ppm	0.0026 ppm	-0.0006 ppm
Concentration per Run 3	0.9599 ppm	0.0003 ppm	0.2189 ppm	0.0005 ppm	-0.0008 ppm	0.0031 ppm	-0.0005 ppm
Concentration RSD	0.1 %	40.7 %	0.6 %	34.9 %	54.2 %	9.9 %	8.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.4410 %	97.3878 %	98.4213 %	84.7931 %	95.1330 %	99.7700 %
Concentration per Run 1	97.5816 %	97.4199 %	98.4216 %	85.3800 %	95.0177 %	99.7116 %
Concentration per Run 2	97.7178 %	97.4431 %	98.5005 %	85.0113 %	95.2971 %	99.6617 %
Concentration per Run 3	97.0235 %	97.3004 %	98.3418 %	83.9881 %	95.0842 %	99.9368 %
Concentration RSD	0.4 %	0.1 %	0.1 %	0.9 %	0.2 %	0.1 %

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Sample: CCV
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Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5045 ppm	0.5095 ppm	0.4890 ppm	0.4908 ppm	0.5021 ppm	0.4955 ppm	0.5008 ppm
Concentration per Run 1	0.5042 ppm	0.5063 ppm	0.4897 ppm	0.4912 ppm	0.4992 ppm	0.4925 ppm	0.4921 ppm
Concentration per Run 2	0.5040 ppm	0.5089 ppm	0.4879 ppm	0.4901 ppm	0.5019 ppm	0.4953 ppm	0.5012 ppm
Concentration per Run 3	0.5054 ppm	0.5132 ppm	0.4895 ppm	0.4911 ppm	0.5052 ppm	0.4986 ppm	0.5091 ppm
Recovery Percentage 1	100.899 %	101.893 %	97.803 %	98.158 %	100.424 %	99.095 %	100.157 %
Concentration RSD	0.2 %	0.7 %	0.2 %	0.1 %	0.6 %	0.6 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4934 ppm	0.5003 ppm	0.5075 ppm	0.5028 ppm	0.4993 ppm	5.1516 ppm	0.4909 ppm
Concentration per Run 1	0.4939 ppm	0.5011 ppm	0.5082 ppm	0.5028 ppm	0.4935 ppm	5.1595 ppm	0.4916 ppm
Concentration per Run 2	0.4926 ppm	0.4991 ppm	0.5064 ppm	0.5029 ppm	0.4996 ppm	5.1885 ppm	0.4921 ppm
Concentration per Run 3	0.4936 ppm	0.5007 ppm	0.5080 ppm	0.5026 ppm	0.5047 ppm	5.1066 ppm	0.4891 ppm
Recovery Percentage 1	98.672 %	100.060 %	101.503 %	100.556 %	99.855 %	103.031 %	98.187 %
Concentration RSD	0.1 %	0.2 %	0.2 %	0.0 %	1.1 %	0.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4831 ppm	0.4910 ppm	10.1109 ppm	0.5035 ppm	0.5019 ppm	0.5029 ppm	0.5063 ppm
Concentration per Run 1	0.4801 ppm	0.4886 ppm	10.0502 ppm	0.5046 ppm	0.5040 ppm	0.5010 ppm	0.5068 ppm
Concentration per Run 2	0.4831 ppm	0.4907 ppm	10.1113 ppm	0.5022 ppm	0.4991 ppm	0.5036 ppm	0.5065 ppm
Concentration per Run 3	0.4862 ppm	0.4936 ppm	10.1713 ppm	0.5038 ppm	0.5026 ppm	0.5042 ppm	0.5056 ppm
Recovery Percentage 1	96.624 %	98.195 %	101.109 %	100.710 %	100.379 %	100.588 %	101.263 %
Concentration RSD	0.6 %	0.5 %	0.6 %	0.2 %	0.5 %	0.3 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6446 ppm	0.4954 ppm	0.4904 ppm	0.4828 ppm	0.5007 ppm	0.5040 ppm	0.5072 ppm
Concentration per Run 1	5.6479 ppm	0.4956 ppm	0.4875 ppm	0.4838 ppm	0.5012 ppm	0.5043 ppm	0.5076 ppm
Concentration per Run 2	5.6352 ppm	0.4955 ppm	0.4901 ppm	0.4824 ppm	0.5000 ppm	0.5044 ppm	0.5061 ppm
Concentration per Run 3	5.6507 ppm	0.4949 ppm	0.4934 ppm	0.4822 ppm	0.5009 ppm	0.5033 ppm	0.5078 ppm
Recovery Percentage 1	107.516 %	99.071 %	98.070 %	96.561 %	100.133 %	100.797 %	101.434 %
Concentration RSD	0.1 %	0.1 %	0.6 %	0.2 %	0.1 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7646 %	101.6123 %	102.0477 %	86.2905 %	101.4114 %	103.7880 %
Concentration per Run 1	101.3520 %	101.5798 %	102.0650 %	86.6313 %	101.3562 %	103.7915 %
Concentration per Run 2	100.7059 %	101.6460 %	102.1593 %	86.2797 %	101.7195 %	103.8837 %
Concentration per Run 3	100.2360 %	101.6111 %	101.9187 %	85.9605 %	101.1587 %	103.6889 %
Recovery Percentage 1						
Concentration RSD	0.6 %	0.0 %	0.1 %	0.4 %	0.3 %	0.1 %

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Sample: CCB
Analysis started at: 6/19/2024 1:20:40 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0101 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0486 ppm
Concentration per Run 1	0.0001 ppm	0.0146 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0452 ppm
Concentration per Run 2	0.0000 ppm	0.0084 ppm	0.0000 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0486 ppm
Concentration per Run 3	0.0001 ppm	0.0075 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0519 ppm
Recovery Percentage 1	0.785 %	10.132 %	4.422 %	2.559 %	2.497 %	0.426 %	48.557 %
Concentration RSD	152.9 %	38.4 %	111.5 %	41.5 %	51.4 %	6.9 %	6.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0009 ppm	-0.0646 ppm	0.0074 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0033 ppm	-0.0543 ppm	0.0062 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0012 ppm	-0.0816 ppm	0.0090 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0007 ppm	-0.0017 ppm	-0.0580 ppm	0.0070 ppm
Recovery Percentage 1	0.179 %	-0.110 %	-4.075 %	4.569 %	1.845 %	-2.585 %	7.378 %
Concentration RSD	340.6 %	793.4 %	48.0 %	60.0 %	267.9 %	23.0 %	20.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0011 ppm	-0.0280 ppm	0.0002 ppm	0.0001 ppm	0.0017 ppm	-0.0026 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	-0.0206 ppm	0.0001 ppm	-0.0004 ppm	0.0018 ppm	-0.0005 ppm
Concentration per Run 2	-0.0003 ppm	0.0009 ppm	-0.0357 ppm	0.0003 ppm	0.0006 ppm	0.0018 ppm	-0.0027 ppm
Concentration per Run 3	0.0002 ppm	0.0011 ppm	-0.0276 ppm	0.0001 ppm	0.0001 ppm	0.0014 ppm	-0.0046 ppm
Recovery Percentage 1	-0.902 %	2.175 %	-1.398 %	0.654 %	1.039 %	3.394 %	-26.208 %
Concentration RSD	261.9 %	19.9 %	26.9 %	52.7 %	503.7 %	13.6 %	78.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0006 ppm	-0.0002 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	0.047 %	-0.003 %	2.089 %	2.161 %	-1.021 %	-0.230 %	-4.926 %
Concentration RSD	167.0 %	20,840.6 %	20.3 %	143.4 %	53.0 %	813.2 %	16.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.0807 %	101.7947 %	103.3116 %	80.0331 %	99.6582 %	100.0623 %
Concentration per Run 1	104.1646 %	101.4554 %	102.7345 %	79.1666 %	98.8416 %	99.5183 %
Concentration per Run 2	102.0625 %	101.7582 %	102.4500 %	80.6811 %	99.1635 %	100.0895 %
Concentration per Run 3	100.0150 %	102.1705 %	104.7501 %	80.2517 %	100.9696 %	100.5792 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.4 %	1.2 %	1.0 %	1.2 %	0.5 %

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Sample: I2432741-11 WG1935424
Analysis started at: 6/19/2024 1:30:32 PM
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Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0579 ppm	0.0011 ppm	0.0095 ppm	0.0362 ppm	0.0000 ppm	66.4548 ppm
Concentration per Run 1	-0.0002 ppm	0.0675 ppm	0.0007 ppm	0.0096 ppm	0.0352 ppm	0.0000 ppm	64.7128 ppm
Concentration per Run 2	-0.0005 ppm	0.0602 ppm	0.0008 ppm	0.0088 ppm	0.0367 ppm	0.0000 ppm	67.1450 ppm
Concentration per Run 3	-0.0008 ppm	0.0461 ppm	0.0016 ppm	0.0100 ppm	0.0367 ppm	0.0001 ppm	67.5065 ppm
Concentration RSD	56.0 %	18.8 %	43.9 %	6.5 %	2.5 %	179.7 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0087 ppm	0.0017 ppm	4.9862 ppm	0.0924 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0088 ppm	0.0021 ppm	4.8016 ppm	0.0921 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0090 ppm	0.0024 ppm	5.0616 ppm	0.0932 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0084 ppm	0.0005 ppm	5.0954 ppm	0.0920 ppm
Concentration RSD	81.1 %	19.3 %	33.8 %	3.5 %	61.3 %	3.2 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0032 ppm	119.7059 ppm	0.0031 ppm	-0.0004 ppm	0.0020 ppm	-0.0005 ppm
Concentration per Run 1	-0.0002 ppm	0.0031 ppm	116.7551 ppm	0.0029 ppm	0.0000 ppm	0.0028 ppm	0.0017 ppm
Concentration per Run 2	0.0001 ppm	0.0034 ppm	120.8814 ppm	0.0030 ppm	-0.0002 ppm	0.0009 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0031 ppm	121.4813 ppm	0.0032 ppm	-0.0010 ppm	0.0023 ppm	-0.0027 ppm
Concentration RSD	326.8 %	5.0 %	2.1 %	5.1 %	119.6 %	48.6 %	461.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0207 ppm	-0.0001 ppm	0.2020 ppm	0.0009 ppm	-0.0017 ppm	0.0026 ppm	-0.0002 ppm
Concentration per Run 1	1.0178 ppm	0.0003 ppm	0.1967 ppm	0.0009 ppm	-0.0021 ppm	0.0023 ppm	-0.0001 ppm
Concentration per Run 2	1.0193 ppm	-0.0003 ppm	0.2039 ppm	0.0008 ppm	-0.0016 ppm	0.0023 ppm	-0.0002 ppm
Concentration per Run 3	1.0251 ppm	-0.0003 ppm	0.2055 ppm	0.0011 ppm	-0.0013 ppm	0.0031 ppm	-0.0002 ppm
Concentration RSD	0.4 %	320.1 %	2.3 %	19.0 %	26.0 %	17.3 %	30.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.2133 %	96.7697 %	97.6128 %	95.6562 %	94.8964 %	101.2551 %
Concentration per Run 1	100.4569 %	97.7674 %	97.9713 %	101.6958 %	95.3135 %	102.0449 %
Concentration per Run 2	97.3691 %	96.3470 %	97.7291 %	95.4349 %	94.9758 %	101.7020 %
Concentration per Run 3	96.8140 %	96.1946 %	97.1379 %	89.8380 %	94.3998 %	100.0185 %
Concentration RSD	2.0 %	0.9 %	0.4 %	6.2 %	0.5 %	1.1 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-12 WG1935424
Analysis started at: 6/19/2024 1:36:48 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0871 ppm	0.0007 ppm	0.0073 ppm	0.0438 ppm	0.0001 ppm	65.3543 ppm
Concentration per Run 1	-0.0005 ppm	0.0783 ppm	0.0000 ppm	0.0073 ppm	0.0431 ppm	0.0001 ppm	64.1353 ppm
Concentration per Run 2	-0.0004 ppm	0.0958 ppm	0.0002 ppm	0.0074 ppm	0.0441 ppm	0.0001 ppm	65.8194 ppm
Concentration per Run 3	-0.0002 ppm	0.0872 ppm	0.0019 ppm	0.0072 ppm	0.0442 ppm	0.0001 ppm	66.1082 ppm
Concentration RSD	37.4 %	10.0 %	143.5 %	1.6 %	1.4 %	44.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0073 ppm	0.0023 ppm	6.3391 ppm	0.0533 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0073 ppm	0.0046 ppm	6.1853 ppm	0.0537 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0074 ppm	0.0017 ppm	6.4430 ppm	0.0535 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0072 ppm	0.0007 ppm	6.3889 ppm	0.0526 ppm
Concentration RSD	336.0 %	89.5 %	61.2 %	1.6 %	87.9 %	2.1 %	1.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0031 ppm	119.6726 ppm	0.0048 ppm	-0.0004 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 1	-0.0003 ppm	0.0030 ppm	117.3958 ppm	0.0048 ppm	-0.0006 ppm	0.0004 ppm	-0.0016 ppm
Concentration per Run 2	-0.0007 ppm	0.0032 ppm	120.6124 ppm	0.0050 ppm	0.0003 ppm	-0.0018 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0031 ppm	121.0094 ppm	0.0047 ppm	-0.0008 ppm	0.0025 ppm	-0.0012 ppm
Concentration RSD	128.7 %	2.7 %	1.7 %	2.8 %	152.8 %	651.4 %	54.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8448 ppm	-0.0003 ppm	0.2449 ppm	0.0007 ppm	-0.0013 ppm	0.0025 ppm	-0.0003 ppm
Concentration per Run 1	0.8455 ppm	0.0003 ppm	0.2403 ppm	0.0006 ppm	-0.0009 ppm	0.0027 ppm	-0.0003 ppm
Concentration per Run 2	0.8425 ppm	-0.0004 ppm	0.2469 ppm	0.0009 ppm	-0.0023 ppm	0.0024 ppm	-0.0003 ppm
Concentration per Run 3	0.8464 ppm	-0.0008 ppm	0.2474 ppm	0.0006 ppm	-0.0006 ppm	0.0024 ppm	-0.0003 ppm
Concentration RSD	0.2 %	178.3 %	1.6 %	25.0 %	72.8 %	8.7 %	5.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.5216 %	96.1687 %	96.9984 %	86.4897 %	95.0718 %	99.4726 %
Concentration per Run 1	103.1662 %	96.1342 %	97.0851 %	86.2639 %	95.1143 %	98.7310 %
Concentration per Run 2	101.0315 %	95.9369 %	96.9401 %	86.5777 %	95.3289 %	99.3816 %
Concentration per Run 3	100.3671 %	96.4350 %	96.9699 %	86.6274 %	94.7721 %	100.3052 %
Concentration RSD	1.4 %	0.3 %	0.1 %	0.2 %	0.3 %	0.8 %

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Sample: I2432741-13 WG1935424
Analysis started at: 6/19/2024 1:43:06 PM
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Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.1256 ppm	0.0006 ppm	0.0023 ppm	0.0778 ppm	0.0001 ppm	67.4093 ppm
Concentration per Run 1	-0.0006 ppm	0.1251 ppm	0.0009 ppm	0.0023 ppm	0.0753 ppm	0.0000 ppm	65.3213 ppm
Concentration per Run 2	-0.0003 ppm	0.1137 ppm	-0.0004 ppm	0.0023 ppm	0.0787 ppm	0.0001 ppm	68.2847 ppm
Concentration per Run 3	-0.0004 ppm	0.1380 ppm	0.0012 ppm	0.0024 ppm	0.0795 ppm	0.0001 ppm	68.6220 ppm
Concentration RSD	32.7 %	9.7 %	151.0 %	2.5 %	2.8 %	61.4 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0058 ppm	0.0009 ppm	5.8198 ppm	0.0133 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm	0.0009 ppm	5.6199 ppm	0.0134 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0057 ppm	0.0005 ppm	5.8754 ppm	0.0104 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0057 ppm	0.0012 ppm	5.9642 ppm	0.0160 ppm
Concentration RSD	135.6 %	233.4 %	105.8 %	5.1 %	42.3 %	3.1 %	21.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0019 ppm	116.4977 ppm	0.0032 ppm	-0.0007 ppm	0.0002 ppm	-0.0014 ppm
Concentration per Run 1	-0.0002 ppm	0.0019 ppm	113.1522 ppm	0.0031 ppm	-0.0003 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0019 ppm	117.9374 ppm	0.0035 ppm	-0.0004 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 3	0.0004 ppm	0.0019 ppm	118.4037 ppm	0.0032 ppm	-0.0014 ppm	0.0007 ppm	-0.0029 ppm
Concentration RSD	208.9 %	2.0 %	2.5 %	5.8 %	85.0 %	223.1 %	96.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4146 ppm	0.0002 ppm	0.3187 ppm	0.0006 ppm	-0.0011 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.4094 ppm	0.0004 ppm	0.3090 ppm	0.0002 ppm	-0.0009 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.4135 ppm	-0.0001 ppm	0.3228 ppm	0.0008 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.4208 ppm	0.0004 ppm	0.3244 ppm	0.0007 ppm	-0.0018 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	1.4 %	122.2 %	2.6 %	53.7 %	51.9 %	102.5 %	285.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.9110 %	97.5141 %	97.3773 %	86.9049 %	94.7087 %	100.4695 %
Concentration per Run 1	103.7906 %	97.1619 %	98.0741 %	87.9267 %	95.6908 %	99.7486 %
Concentration per Run 2	99.7415 %	97.7316 %	97.4872 %	86.6668 %	94.8662 %	100.9872 %
Concentration per Run 3	99.2008 %	97.6488 %	96.5706 %	86.1213 %	93.5690 %	100.6727 %
Concentration RSD	2.5 %	0.3 %	0.8 %	1.1 %	1.1 %	0.6 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-14 WG1935424
Analysis started at: 6/19/2024 1:49:24 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.1371 ppm	-0.0012 ppm	0.0047 ppm	0.0528 ppm	0.0000 ppm	66.9173 ppm
Concentration per Run 1	-0.0009 ppm	0.1331 ppm	-0.0016 ppm	0.0047 ppm	0.0524 ppm	0.0000 ppm	66.2952 ppm
Concentration per Run 2	0.0004 ppm	0.1393 ppm	-0.0015 ppm	0.0049 ppm	0.0530 ppm	0.0001 ppm	67.4107 ppm
Concentration per Run 3	-0.0005 ppm	0.1390 ppm	-0.0006 ppm	0.0045 ppm	0.0529 ppm	-0.0001 ppm	67.0459 ppm
Concentration RSD	196.0 %	2.6 %	44.1 %	4.7 %	0.7 %	469.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0042 ppm	0.0049 ppm	6.4176 ppm	0.0188 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0043 ppm	0.0066 ppm	6.3335 ppm	0.0176 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0044 ppm	0.0039 ppm	6.4996 ppm	0.0196 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0040 ppm	0.0043 ppm	6.4197 ppm	0.0192 ppm
Concentration RSD	323.1 %	925.9 %	74.4 %	5.6 %	30.0 %	1.3 %	5.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0023 ppm	118.3264 ppm	0.0037 ppm	0.0000 ppm	0.0010 ppm	-0.0031 ppm
Concentration per Run 1	0.0002 ppm	0.0024 ppm	117.5567 ppm	0.0037 ppm	0.0000 ppm	0.0008 ppm	-0.0030 ppm
Concentration per Run 2	0.0004 ppm	0.0022 ppm	119.0624 ppm	0.0036 ppm	-0.0004 ppm	0.0017 ppm	-0.0039 ppm
Concentration per Run 3	0.0005 ppm	0.0022 ppm	118.3600 ppm	0.0038 ppm	0.0004 ppm	0.0005 ppm	-0.0025 ppm
Concentration RSD	41.2 %	5.1 %	0.6 %	2.0 %	4,141.2 %	60.9 %	22.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5575 ppm	0.0003 ppm	0.2788 ppm	0.0007 ppm	-0.0020 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.5580 ppm	-0.0001 ppm	0.2767 ppm	0.0007 ppm	-0.0008 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.5584 ppm	0.0008 ppm	0.2807 ppm	0.0005 ppm	-0.0037 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 3	0.5562 ppm	0.0001 ppm	0.2789 ppm	0.0009 ppm	-0.0016 ppm	0.0010 ppm	0.0001 ppm
Concentration RSD	0.2 %	177.0 %	0.7 %	30.5 %	75.5 %	4.6 %	107.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.4189 %	96.7795 %	97.9273 %	84.5991 %	95.2619 %	100.6799 %
Concentration per Run 1	101.1330 %	96.2690 %	97.9144 %	84.1357 %	95.1360 %	100.0533 %
Concentration per Run 2	99.6847 %	96.8199 %	98.0679 %	84.8017 %	95.2689 %	100.7567 %
Concentration per Run 3	100.4391 %	97.2497 %	97.7997 %	84.8599 %	95.3808 %	101.2296 %
Concentration RSD	0.7 %	0.5 %	0.1 %	0.5 %	0.1 %	0.6 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-16 WG1935424
Analysis started at: 6/19/2024 1:55:40 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.1387 ppm	-0.0002 ppm	0.0016 ppm	0.0879 ppm	0.0000 ppm	71.8435 ppm
Concentration per Run 1	-0.0003 ppm	0.1440 ppm	-0.0008 ppm	0.0014 ppm	0.0903 ppm	0.0001 ppm	73.9138 ppm
Concentration per Run 2	-0.0006 ppm	0.1424 ppm	0.0007 ppm	0.0015 ppm	0.0871 ppm	-0.0001 ppm	71.1470 ppm
Concentration per Run 3	-0.0006 ppm	0.1297 ppm	-0.0005 ppm	0.0018 ppm	0.0863 ppm	0.0000 ppm	70.4696 ppm
Concentration RSD	29.2 %	5.7 %	378.6 %	11.6 %	2.4 %	431.8 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0146 ppm	0.0046 ppm	6.6481 ppm	0.0098 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0148 ppm	0.0067 ppm	6.8312 ppm	0.0098 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0150 ppm	0.0034 ppm	6.5847 ppm	0.0127 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0140 ppm	0.0035 ppm	6.5284 ppm	0.0069 ppm
Concentration RSD	231.1 %	34.8 %	66.0 %	3.7 %	41.0 %	2.4 %	29.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0018 ppm	123.3240 ppm	0.0049 ppm	-0.0010 ppm	0.0008 ppm	-0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.0019 ppm	127.0055 ppm	0.0046 ppm	-0.0007 ppm	0.0012 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	0.0019 ppm	122.0694 ppm	0.0051 ppm	-0.0005 ppm	0.0003 ppm	-0.0021 ppm
Concentration per Run 3	-0.0003 ppm	0.0017 ppm	120.8971 ppm	0.0049 ppm	-0.0017 ppm	0.0010 ppm	-0.0033 ppm
Concentration RSD	857.0 %	7.0 %	2.6 %	5.1 %	66.9 %	57.2 %	325.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4010 ppm	0.0005 ppm	0.3245 ppm	0.0007 ppm	-0.0009 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 1	0.3962 ppm	0.0003 ppm	0.3340 ppm	0.0006 ppm	-0.0005 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 2	0.4070 ppm	0.0007 ppm	0.3210 ppm	0.0005 ppm	-0.0003 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	0.3999 ppm	0.0004 ppm	0.3184 ppm	0.0009 ppm	-0.0019 ppm	0.0004 ppm	-0.0004 ppm
Concentration RSD	1.4 %	48.0 %	2.6 %	33.0 %	99.9 %	25.0 %	19.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.4970 %	98.3520 %	96.9900 %	83.1068 %	94.2862 %	102.8543 %
Concentration per Run 1	95.3371 %	96.9357 %	97.1771 %	82.1541 %	95.0501 %	101.9319 %
Concentration per Run 2	98.2550 %	96.4278 %	96.0481 %	83.4342 %	92.9994 %	101.6428 %
Concentration per Run 3	98.8987 %	101.6925 %	97.7448 %	83.7320 %	94.8090 %	104.9882 %
Concentration RSD	1.9 %	3.0 %	0.9 %	1.0 %	1.2 %	1.8 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-18 WG1935424
Analysis started at: 6/19/2024 2:01:57 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0168 ppm	-0.0006 ppm	0.0122 ppm	0.0261 ppm	-0.0001 ppm	66.9235 ppm
Concentration per Run 1	-0.0001 ppm	0.0088 ppm	-0.0003 ppm	0.0118 ppm	0.0262 ppm	-0.0001 ppm	67.5149 ppm
Concentration per Run 2	-0.0010 ppm	0.0227 ppm	-0.0016 ppm	0.0120 ppm	0.0261 ppm	0.0000 ppm	66.8726 ppm
Concentration per Run 3	-0.0003 ppm	0.0189 ppm	-0.0001 ppm	0.0128 ppm	0.0260 ppm	-0.0001 ppm	66.3830 ppm
Concentration RSD	98.4 %	42.7 %	123.4 %	4.3 %	0.5 %	119.7 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0028 ppm	0.0029 ppm	4.5860 ppm	0.4845 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0029 ppm	0.0027 ppm	4.6552 ppm	0.4870 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0028 ppm	0.0024 ppm	4.5863 ppm	0.4832 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm	0.0035 ppm	4.5164 ppm	0.4832 ppm
Concentration RSD	79.5 %	1,454.7 %	77.3 %	3.0 %	20.1 %	1.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0042 ppm	121.6140 ppm	0.0043 ppm	-0.0013 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 1	0.0004 ppm	0.0042 ppm	122.9941 ppm	0.0044 ppm	-0.0017 ppm	-0.0007 ppm	0.0016 ppm
Concentration per Run 2	-0.0001 ppm	0.0043 ppm	121.3317 ppm	0.0042 ppm	-0.0014 ppm	0.0011 ppm	-0.0004 ppm
Concentration per Run 3	-0.0002 ppm	0.0042 ppm	120.5161 ppm	0.0042 ppm	-0.0009 ppm	0.0000 ppm	-0.0030 ppm
Concentration RSD	617.9 %	1.0 %	1.0 %	2.7 %	29.0 %	645.2 %	379.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0766 ppm	0.0003 ppm	0.1739 ppm	0.0011 ppm	-0.0014 ppm	0.0082 ppm	0.0010 ppm
Concentration per Run 1	1.0731 ppm	0.0002 ppm	0.1757 ppm	0.0007 ppm	-0.0001 ppm	0.0083 ppm	0.0011 ppm
Concentration per Run 2	1.0729 ppm	0.0002 ppm	0.1735 ppm	0.0015 ppm	-0.0023 ppm	0.0081 ppm	0.0010 ppm
Concentration per Run 3	1.0838 ppm	0.0005 ppm	0.1726 ppm	0.0011 ppm	-0.0018 ppm	0.0083 ppm	0.0008 ppm
Concentration RSD	0.6 %	57.4 %	0.9 %	33.5 %	80.4 %	1.5 %	12.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.2853 %	96.3841 %	98.3836 %	83.0715 %	95.3554 %	100.2593 %
Concentration per Run 1	96.1771 %	96.2772 %	99.2635 %	81.6441 %	95.4662 %	100.1442 %
Concentration per Run 2	97.4707 %	96.2202 %	98.3630 %	83.2699 %	95.5810 %	100.1102 %
Concentration per Run 3	98.2081 %	96.6549 %	97.5244 %	84.3005 %	95.0189 %	100.5234 %
Concentration RSD	1.1 %	0.2 %	0.9 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2432741-19 WG1935424
Analysis started at: 6/19/2024 2:08:12 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0769 ppm	0.0000 ppm	0.0073 ppm	0.0386 ppm	0.0001 ppm	66.1898 ppm
Concentration per Run 1	0.0001 ppm	0.0731 ppm	0.0006 ppm	0.0072 ppm	0.0383 ppm	0.0000 ppm	66.1003 ppm
Concentration per Run 2	-0.0005 ppm	0.0696 ppm	-0.0005 ppm	0.0078 ppm	0.0387 ppm	0.0001 ppm	66.3002 ppm
Concentration per Run 3	0.0002 ppm	0.0878 ppm	-0.0002 ppm	0.0070 ppm	0.0389 ppm	0.0001 ppm	66.1689 ppm
Concentration RSD	397.7 %	12.6 %	2,594.6 %	5.5 %	0.8 %	96.7 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0065 ppm	0.0090 ppm	6.1210 ppm	0.0526 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0069 ppm	0.0099 ppm	6.0621 ppm	0.0531 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0063 ppm	0.0084 ppm	6.1396 ppm	0.0532 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0064 ppm	0.0086 ppm	6.1612 ppm	0.0514 ppm
Concentration RSD	6,235.4 %	291.5 %	124.4 %	4.7 %	9.1 %	0.9 %	1.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0032 ppm	120.0071 ppm	0.0048 ppm	-0.0005 ppm	0.0010 ppm	-0.0012 ppm
Concentration per Run 1	0.0004 ppm	0.0030 ppm	119.8058 ppm	0.0051 ppm	0.0000 ppm	0.0023 ppm	-0.0039 ppm
Concentration per Run 2	0.0002 ppm	0.0030 ppm	120.0832 ppm	0.0046 ppm	-0.0007 ppm	0.0008 ppm	-0.0010 ppm
Concentration per Run 3	0.0003 ppm	0.0036 ppm	120.1323 ppm	0.0046 ppm	-0.0009 ppm	0.0000 ppm	0.0014 ppm
Concentration RSD	31.6 %	9.4 %	0.1 %	6.9 %	96.3 %	112.3 %	225.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9177 ppm	0.0003 ppm	0.2449 ppm	0.0007 ppm	-0.0025 ppm	0.0025 ppm	-0.0003 ppm
Concentration per Run 1	0.9212 ppm	0.0000 ppm	0.2444 ppm	0.0010 ppm	-0.0037 ppm	0.0025 ppm	-0.0003 ppm
Concentration per Run 2	0.9132 ppm	0.0006 ppm	0.2450 ppm	0.0006 ppm	-0.0020 ppm	0.0026 ppm	-0.0003 ppm
Concentration per Run 3	0.9186 ppm	0.0001 ppm	0.2453 ppm	0.0004 ppm	-0.0017 ppm	0.0025 ppm	-0.0003 ppm
Concentration RSD	0.4 %	131.0 %	0.2 %	45.1 %	44.1 %	1.6 %	2.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.6745 %	96.3569 %	97.2614 %	84.9929 %	94.0755 %	100.4107 %
Concentration per Run 1	99.4353 %	95.9995 %	97.0346 %	84.5379 %	93.7682 %	100.3711 %
Concentration per Run 2	100.0356 %	96.4625 %	97.5223 %	85.5267 %	94.5910 %	100.4305 %
Concentration per Run 3	99.5526 %	96.6087 %	97.2272 %	84.9142 %	93.8672 %	100.4305 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.6 %	0.5 %	0.0 %

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Sample: I2432741-20 WG1935424
Analysis started at: 6/19/2024 2:14:28 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	0.0839 ppm	-0.0002 ppm	0.0066 ppm	0.0418 ppm	0.0000 ppm	65.6418 ppm
Concentration per Run 1	-0.0010 ppm	0.0819 ppm	-0.0015 ppm	0.0066 ppm	0.0411 ppm	0.0000 ppm	64.6003 ppm
Concentration per Run 2	-0.0004 ppm	0.0832 ppm	0.0007 ppm	0.0065 ppm	0.0419 ppm	0.0000 ppm	65.7612 ppm
Concentration per Run 3	-0.0006 ppm	0.0866 ppm	0.0002 ppm	0.0067 ppm	0.0424 ppm	0.0000 ppm	66.5640 ppm
Concentration RSD	46.3 %	2.9 %	529.8 %	1.6 %	1.6 %	29.6 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0094 ppm	0.0062 ppm	5.9975 ppm	0.0457 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0095 ppm	0.0071 ppm	5.8739 ppm	0.0458 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0093 ppm	0.0060 ppm	5.9908 ppm	0.0457 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0094 ppm	0.0054 ppm	6.1279 ppm	0.0456 ppm
Concentration RSD	78.7 %	72.5 %	81.9 %	0.8 %	13.7 %	2.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0033 ppm	118.3311 ppm	0.0041 ppm	-0.0005 ppm	0.0017 ppm	-0.0003 ppm
Concentration per Run 1	0.0002 ppm	0.0034 ppm	116.5514 ppm	0.0041 ppm	-0.0012 ppm	0.0015 ppm	-0.0005 ppm
Concentration per Run 2	-0.0002 ppm	0.0033 ppm	118.5112 ppm	0.0041 ppm	0.0004 ppm	0.0016 ppm	0.0017 ppm
Concentration per Run 3	0.0002 ppm	0.0033 ppm	119.9306 ppm	0.0039 ppm	-0.0006 ppm	0.0019 ppm	-0.0022 ppm
Concentration RSD	456.4 %	1.1 %	1.4 %	2.7 %	160.0 %	10.8 %	625.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8718 ppm	0.0008 ppm	0.2601 ppm	0.0009 ppm	-0.0015 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 1	0.8719 ppm	0.0003 ppm	0.2558 ppm	0.0006 ppm	-0.0020 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 2	0.8712 ppm	0.0009 ppm	0.2609 ppm	0.0010 ppm	-0.0024 ppm	0.0015 ppm	-0.0004 ppm
Concentration per Run 3	0.8723 ppm	0.0012 ppm	0.2636 ppm	0.0012 ppm	0.0000 ppm	0.0025 ppm	-0.0003 ppm
Concentration RSD	0.1 %	61.3 %	1.5 %	37.3 %	89.7 %	25.1 %	18.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.1349 %	97.2038 %	98.3361 %	85.2578 %	95.5945 %	102.2149 %
Concentration per Run 1	102.9169 %	96.7473 %	98.2845 %	85.4512 %	95.4025 %	101.8277 %
Concentration per Run 2	100.8421 %	97.4270 %	98.5517 %	85.3745 %	95.7035 %	102.4336 %
Concentration per Run 3	99.6457 %	97.4369 %	98.1722 %	84.9478 %	95.6775 %	102.3833 %
Concentration RSD	1.6 %	0.4 %	0.2 %	0.3 %	0.2 %	0.3 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433335-01 WG1935424
Analysis started at: 6/19/2024 2:20:44 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0308 ppm	0.0003 ppm	0.0026 ppm	0.0383 ppm	0.0000 ppm	7.3549 ppm
Concentration per Run 1	0.0002 ppm	0.0287 ppm	0.0006 ppm	0.0026 ppm	0.0380 ppm	0.0002 ppm	7.3500 ppm
Concentration per Run 2	-0.0002 ppm	0.0308 ppm	0.0003 ppm	0.0027 ppm	0.0384 ppm	0.0000 ppm	7.3707 ppm
Concentration per Run 3	0.0000 ppm	0.0329 ppm	0.0000 ppm	0.0025 ppm	0.0385 ppm	-0.0001 ppm	7.3440 ppm
Concentration RSD	466.4 %	6.8 %	109.8 %	3.5 %	0.7 %	404.8 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0033 ppm	0.0003 ppm	0.0025 ppm	0.0110 ppm	0.1676 ppm	0.5120 ppm
Concentration per Run 1	0.0004 ppm	0.0034 ppm	0.0006 ppm	0.0027 ppm	0.0120 ppm	0.1651 ppm	0.5123 ppm
Concentration per Run 2	0.0004 ppm	0.0032 ppm	0.0002 ppm	0.0022 ppm	0.0099 ppm	0.1797 ppm	0.5075 ppm
Concentration per Run 3	0.0004 ppm	0.0033 ppm	0.0001 ppm	0.0027 ppm	0.0111 ppm	0.1581 ppm	0.5162 ppm
Concentration RSD	9.5 %	2.8 %	78.4 %	11.8 %	9.4 %	6.6 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0877 ppm	0.0000 ppm	121.9307 ppm	0.0069 ppm	0.0570 ppm	0.0007 ppm	-0.0032 ppm
Concentration per Run 1	0.0872 ppm	0.0001 ppm	122.1080 ppm	0.0071 ppm	0.0563 ppm	0.0003 ppm	-0.0028 ppm
Concentration per Run 2	0.0884 ppm	0.0000 ppm	121.8532 ppm	0.0070 ppm	0.0573 ppm	0.0011 ppm	-0.0042 ppm
Concentration per Run 3	0.0875 ppm	0.0000 ppm	121.8309 ppm	0.0067 ppm	0.0574 ppm	0.0007 ppm	-0.0027 ppm
Concentration RSD	0.7 %	62.4 %	0.1 %	3.1 %	1.1 %	55.0 %	25.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3206 ppm	0.0007 ppm	0.0287 ppm	0.0004 ppm	-0.0011 ppm	0.0022 ppm	0.1011 ppm
Concentration per Run 1	0.3191 ppm	0.0003 ppm	0.0288 ppm	0.0004 ppm	-0.0009 ppm	0.0027 ppm	0.1003 ppm
Concentration per Run 2	0.3187 ppm	0.0009 ppm	0.0287 ppm	0.0004 ppm	-0.0019 ppm	0.0022 ppm	0.1004 ppm
Concentration per Run 3	0.3241 ppm	0.0009 ppm	0.0286 ppm	0.0004 ppm	-0.0006 ppm	0.0018 ppm	0.1026 ppm
Concentration RSD	0.9 %	48.4 %	0.4 %	7.1 %	61.3 %	21.5 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.1280 %	97.2332 %	98.1879 %	86.0631 %	95.7655 %	102.2246 %
Concentration per Run 1	99.2228 %	97.5634 %	98.3963 %	87.2816 %	96.3420 %	102.7613 %
Concentration per Run 2	99.0064 %	97.4859 %	98.3514 %	85.5145 %	96.5041 %	102.6220 %
Concentration per Run 3	99.1546 %	96.6502 %	97.8159 %	85.3931 %	94.4503 %	101.2905 %
Concentration RSD	0.1 %	0.5 %	0.3 %	1.2 %	1.2 %	0.8 %

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Sample: CCV
Analysis started at: 6/19/2024 2:27:00 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4982 ppm	0.4999 ppm	0.4866 ppm	0.4893 ppm	0.4908 ppm	0.4745 ppm	0.4858 ppm
Concentration per Run 1	0.4983 ppm	0.4814 ppm	0.4854 ppm	0.4899 ppm	0.4796 ppm	0.4639 ppm	0.4661 ppm
Concentration per Run 2	0.4978 ppm	0.5017 ppm	0.4866 ppm	0.4880 ppm	0.4953 ppm	0.4789 ppm	0.4906 ppm
Concentration per Run 3	0.4986 ppm	0.5167 ppm	0.4878 ppm	0.4900 ppm	0.4976 ppm	0.4809 ppm	0.5007 ppm
Recovery Percentage 1	99.645 %	99.984 %	97.324 %	97.857 %	98.169 %	94.910 %	97.158 %
Concentration RSD	0.1 %	3.5 %	0.2 %	0.2 %	2.0 %	2.0 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4908 ppm	0.4997 ppm	0.5059 ppm	0.5036 ppm	0.4784 ppm	4.9289 ppm	0.4731 ppm
Concentration per Run 1	0.4902 ppm	0.4996 ppm	0.5052 ppm	0.5037 ppm	0.4657 ppm	4.8269 ppm	0.4743 ppm
Concentration per Run 2	0.4903 ppm	0.4989 ppm	0.5058 ppm	0.5030 ppm	0.4827 ppm	4.9337 ppm	0.4725 ppm
Concentration per Run 3	0.4918 ppm	0.5006 ppm	0.5068 ppm	0.5042 ppm	0.4867 ppm	5.0261 ppm	0.4726 ppm
Recovery Percentage 1	98.153 %	99.940 %	101.187 %	100.723 %	95.671 %	98.578 %	94.627 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.1 %	2.3 %	2.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4616 ppm	0.4928 ppm	9.7494 ppm	0.4994 ppm	0.4973 ppm	0.5033 ppm	0.5020 ppm
Concentration per Run 1	0.4517 ppm	0.4911 ppm	9.5204 ppm	0.4990 ppm	0.4966 ppm	0.5019 ppm	0.5017 ppm
Concentration per Run 2	0.4651 ppm	0.4924 ppm	9.8309 ppm	0.4989 ppm	0.4971 ppm	0.5029 ppm	0.5037 ppm
Concentration per Run 3	0.4679 ppm	0.4948 ppm	9.8970 ppm	0.5003 ppm	0.4982 ppm	0.5051 ppm	0.5006 ppm
Recovery Percentage 1	92.312 %	98.551 %	97.494 %	99.875 %	99.454 %	100.666 %	100.404 %
Concentration RSD	1.9 %	0.4 %	2.1 %	0.2 %	0.2 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6579 ppm	0.4939 ppm	0.4766 ppm	0.4675 ppm	0.4992 ppm	0.5023 ppm	0.5064 ppm
Concentration per Run 1	5.6516 ppm	0.4936 ppm	0.4659 ppm	0.4679 ppm	0.4976 ppm	0.5019 ppm	0.5063 ppm
Concentration per Run 2	5.6580 ppm	0.4927 ppm	0.4812 ppm	0.4670 ppm	0.4991 ppm	0.5024 ppm	0.5060 ppm
Concentration per Run 3	5.6641 ppm	0.4955 ppm	0.4828 ppm	0.4675 ppm	0.5008 ppm	0.5024 ppm	0.5070 ppm
Recovery Percentage 1	107.770 %	98.789 %	95.326 %	93.492 %	99.833 %	100.451 %	101.285 %
Concentration RSD	0.1 %	0.3 %	2.0 %	0.1 %	0.3 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2306 %	100.5513 %	101.1309 %	88.3173 %	101.2252 %	105.6290 %
Concentration per Run 1	105.5494 %	100.4200 %	101.1272 %	89.9555 %	101.3702 %	105.4013 %
Concentration per Run 2	102.4593 %	100.6882 %	101.3228 %	87.9061 %	101.3719 %	105.6669 %
Concentration per Run 3	101.6832 %	100.5456 %	100.9427 %	87.0903 %	100.9334 %	105.8187 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.1 %	0.2 %	1.7 %	0.2 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 2:33:04 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0039 ppm	-0.0006 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0499 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	-0.0008 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0507 ppm
Concentration per Run 2	-0.0007 ppm	-0.0072 ppm	-0.0016 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0537 ppm
Concentration per Run 3	-0.0002 ppm	0.0178 ppm	0.0007 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0452 ppm
Recovery Percentage 1	-5.661 %	3.909 %	-11.635 %	2.107 %	1.846 %	0.400 %	49.881 %
Concentration RSD	75.7 %	325.5 %	198.3 %	40.3 %	98.7 %	55.1 %	8.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0010 ppm	-0.0422 ppm	0.0062 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0012 ppm	-0.0313 ppm	0.0052 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0003 ppm	0.0002 ppm	-0.0272 ppm	0.0060 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0016 ppm	-0.0682 ppm	0.0072 ppm
Recovery Percentage 1	0.218 %	0.234 %	-3.125 %	3.447 %	2.029 %	-1.688 %	6.163 %
Concentration RSD	213.6 %	56.3 %	106.1 %	46.7 %	71.0 %	53.5 %	16.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0013 ppm	-0.0233 ppm	0.0002 ppm	-0.0008 ppm	0.0022 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0017 ppm	-0.0228 ppm	0.0001 ppm	-0.0006 ppm	0.0006 ppm	-0.0017 ppm
Concentration per Run 2	-0.0006 ppm	0.0013 ppm	-0.0273 ppm	0.0002 ppm	-0.0011 ppm	0.0033 ppm	-0.0007 ppm
Concentration per Run 3	-0.0003 ppm	0.0011 ppm	-0.0196 ppm	0.0003 ppm	-0.0006 ppm	0.0027 ppm	-0.0006 ppm
Recovery Percentage 1	-2.809 %	2.638 %	-1.163 %	0.961 %	-7.750 %	4.365 %	-9.995 %
Concentration RSD	123.8 %	23.3 %	16.6 %	45.7 %	36.0 %	65.9 %	59.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0006 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0010 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	-0.0013 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0017 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 3	-0.0010 ppm	-0.0010 ppm	0.0001 ppm	0.0003 ppm	-0.0017 ppm	-0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	0.119 %	-0.957 %	1.051 %	0.412 %	-4.244 %	-1.006 %	-5.182 %
Concentration RSD	235.2 %	129.3 %	123.0 %	510.5 %	128.5 %	140.4 %	14.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0740 %	100.5637 %	101.4832 %	78.3551 %	97.9299 %	101.1305 %
Concentration per Run 1	100.4512 %	100.3939 %	101.6511 %	76.5757 %	98.5342 %	100.7439 %
Concentration per Run 2	101.9730 %	100.7578 %	101.1303 %	78.9531 %	97.7431 %	101.2972 %
Concentration per Run 3	100.7977 %	100.5395 %	101.6682 %	79.5365 %	97.5123 %	101.3503 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.2 %	0.3 %	2.0 %	0.5 %	0.3 %

ICP DataTrace 5

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Sample: wg1935943-1 wg1935943
Analysis started at: 6/19/2024 3:03:04 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0056 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	-0.0001 ppm	0.0022 ppm	-0.0014 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0030 ppm
Concentration per Run 2	-0.0004 ppm	0.0088 ppm	0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0081 ppm
Concentration per Run 3	-0.0008 ppm	0.0058 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0016 ppm
Recovery Percentage 1	-5.918 %	5.609 %	-6.982 %	1.058 %	0.175 %	0.540 %	2.250 %
Concentration RSD	76.9 %	58.4 %	306.8 %	44.7 %	899.6 %	216.7 %	246.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm	-0.0670 ppm	0.0028 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0006 ppm	-0.1087 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0027 ppm	-0.0458 ppm	0.0044 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0024 ppm	-0.0464 ppm	0.0012 ppm
Recovery Percentage 1	-0.553 %	-0.497 %	-5.085 %	1.174 %	-0.596 %	-2.679 %	2.827 %
Concentration RSD	77.3 %	33.2 %	45.9 %	18.3 %	850.4 %	54.0 %	57.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	-0.0001 ppm	-0.0440 ppm	0.0003 ppm	-0.0008 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 1	-0.0010 ppm	-0.0002 ppm	-0.0387 ppm	0.0000 ppm	-0.0005 ppm	-0.0004 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0506 ppm	0.0004 ppm	-0.0012 ppm	0.0011 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0426 ppm	0.0005 ppm	-0.0007 ppm	0.0003 ppm	0.0005 ppm
Recovery Percentage 1	-2.999 %	-0.156 %	-2.198 %	1.178 %	-7.827 %	0.672 %	-3.621 %
Concentration RSD	190.2 %	166.5 %	13.9 %	79.1 %	45.0 %	224.9 %	200.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	-0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0031 ppm	-0.0006 ppm	0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 2	0.0039 ppm	-0.0011 ppm	0.0003 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0039 ppm	-0.0012 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	0.727 %	-1.984 %	2.009 %	0.489 %	2.877 %	0.479 %	-7.612 %
Concentration RSD	13.2 %	32.0 %	61.5 %	753.1 %	39.5 %	602.7 %	10.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.3262 %	104.3225 %	104.9512 %	95.2826 %	104.3390 %	109.2100 %
Concentration per Run 1	106.9257 %	104.1971 %	104.9473 %	97.2820 %	105.2574 %	109.1984 %
Concentration per Run 2	103.2100 %	104.3542 %	104.9469 %	95.1305 %	103.5569 %	109.2241 %
Concentration per Run 3	102.8430 %	104.4163 %	104.9596 %	93.4353 %	104.2027 %	109.2073 %
Recovery Percentage 1						
Concentration RSD	2.2 %	0.1 %	0.0 %	2.0 %	0.8 %	0.0 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: wg1935943-2 wg1935943
Analysis started at: 6/19/2024 3:09:24 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0499 ppm	1.9467 ppm	0.1160 ppm	0.9460 ppm	1.9371 ppm	0.0468 ppm	9.7237 ppm
Concentration per Run 1	0.0497 ppm	1.9525 ppm	0.1165 ppm	0.9464 ppm	1.9441 ppm	0.0471 ppm	9.7773 ppm
Concentration per Run 2	0.0498 ppm	1.9400 ppm	0.1156 ppm	0.9438 ppm	1.9278 ppm	0.0466 ppm	9.6816 ppm
Concentration per Run 3	0.0503 ppm	1.9475 ppm	0.1159 ppm	0.9478 ppm	1.9393 ppm	0.0468 ppm	9.7121 ppm
Concentration RSD	0.6 %	0.3 %	0.4 %	0.2 %	0.4 %	0.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0521 ppm	0.4736 ppm	0.1980 ppm	0.2514 ppm	0.9191 ppm	9.8085 ppm	9.2118 ppm
Concentration per Run 1	0.0521 ppm	0.4749 ppm	0.1996 ppm	0.2532 ppm	0.9161 ppm	9.8718 ppm	9.2534 ppm
Concentration per Run 2	0.0519 ppm	0.4719 ppm	0.1974 ppm	0.2507 ppm	0.9199 ppm	9.7858 ppm	9.2196 ppm
Concentration per Run 3	0.0523 ppm	0.4739 ppm	0.1969 ppm	0.2504 ppm	0.9213 ppm	9.7678 ppm	9.1624 ppm
Concentration RSD	0.4 %	0.3 %	0.7 %	0.6 %	0.3 %	0.6 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4571 ppm	0.9396 ppm	9.7870 ppm	0.4761 ppm	0.5183 ppm	0.4859 ppm	0.1151 ppm
Concentration per Run 1	0.4597 ppm	0.9317 ppm	9.8425 ppm	0.4776 ppm	0.5186 ppm	0.4820 ppm	0.1131 ppm
Concentration per Run 2	0.4546 ppm	0.9369 ppm	9.7267 ppm	0.4740 ppm	0.5168 ppm	0.4859 ppm	0.1155 ppm
Concentration per Run 3	0.4569 ppm	0.9503 ppm	9.7919 ppm	0.4769 ppm	0.5196 ppm	0.4897 ppm	0.1168 ppm
Concentration RSD	0.6 %	1.0 %	0.6 %	0.4 %	0.3 %	0.8 %	1.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0736 ppm	0.9524 ppm	0.9244 ppm	0.9208 ppm	0.1170 ppm	0.4946 ppm	0.4890 ppm
Concentration per Run 1	1.0746 ppm	0.9518 ppm	0.9292 ppm	0.9253 ppm	0.1179 ppm	0.4981 ppm	0.4904 ppm
Concentration per Run 2	1.0704 ppm	0.9502 ppm	0.9195 ppm	0.9197 ppm	0.1162 ppm	0.4935 ppm	0.4869 ppm
Concentration per Run 3	1.0759 ppm	0.9551 ppm	0.9244 ppm	0.9173 ppm	0.1170 ppm	0.4923 ppm	0.4897 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.4 %	0.7 %	0.6 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.9411 %	103.1730 %	103.2593 %	78.9419 %	103.1555 %	106.4082 %
Concentration per Run 1	103.1386 %	103.1994 %	103.7185 %	76.5098 %	102.9172 %	106.1085 %
Concentration per Run 2	104.4402 %	103.0384 %	103.5640 %	79.2180 %	103.4901 %	106.2751 %
Concentration per Run 3	104.2444 %	103.2811 %	102.4954 %	81.0979 %	103.0593 %	106.8410 %
Concentration RSD	0.7 %	0.1 %	0.6 %	2.9 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2433375-04 wg1935943
Analysis started at: 6/19/2024 3:15:31 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0078 ppm	-0.0009 ppm	0.0192 ppm	0.0470 ppm	0.0001 ppm	14.8744 ppm
Concentration per Run 1	-0.0008 ppm	0.0115 ppm	-0.0018 ppm	0.0197 ppm	0.0458 ppm	0.0001 ppm	14.4686 ppm
Concentration per Run 2	0.0002 ppm	0.0039 ppm	-0.0004 ppm	0.0191 ppm	0.0478 ppm	0.0001 ppm	15.0602 ppm
Concentration per Run 3	-0.0004 ppm	0.0081 ppm	-0.0003 ppm	0.0188 ppm	0.0473 ppm	0.0000 ppm	15.0945 ppm
Concentration RSD	144.8 %	48.9 %	100.2 %	2.5 %	2.2 %	122.7 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0004 ppm	0.0060 ppm	1.1614 ppm	6.8405 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0012 ppm	0.0006 ppm	0.0030 ppm	1.1346 ppm	6.8915 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0085 ppm	1.1670 ppm	6.8244 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0064 ppm	1.1825 ppm	6.8054 ppm
Concentration RSD	128.9 %	136.7 %	13.8 %	25.5 %	46.0 %	2.1 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0038 ppm	18.0547 ppm	0.0006 ppm	0.0000 ppm	0.0026 ppm	-0.0016 ppm
Concentration per Run 1	-0.0003 ppm	0.0047 ppm	17.6113 ppm	0.0007 ppm	-0.0003 ppm	0.0040 ppm	-0.0019 ppm
Concentration per Run 2	0.0006 ppm	0.0039 ppm	18.2864 ppm	0.0006 ppm	-0.0003 ppm	0.0023 ppm	-0.0020 ppm
Concentration per Run 3	0.0005 ppm	0.0029 ppm	18.2663 ppm	0.0005 ppm	0.0005 ppm	0.0014 ppm	-0.0009 ppm
Concentration RSD	186.1 %	24.4 %	2.1 %	13.6 %	1,005.7 %	51.2 %	38.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.7899 ppm	0.0001 ppm	0.0865 ppm	0.0008 ppm	0.0005 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	9.9105 ppm	0.0003 ppm	0.0840 ppm	0.0007 ppm	0.0008 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 2	9.8767 ppm	0.0005 ppm	0.0878 ppm	0.0006 ppm	-0.0005 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	9.5824 ppm	-0.0004 ppm	0.0877 ppm	0.0011 ppm	0.0013 ppm	0.0000 ppm	0.0006 ppm
Concentration RSD	1.8 %	355.3 %	2.5 %	33.6 %	184.9 %	145.7 %	4.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.4559 %	100.5888 %	101.5707 %	72.6936 %	99.8079 %	101.8405 %
Concentration per Run 1	108.2894 %	100.7315 %	101.5222 %	71.3838 %	98.7355 %	101.2822 %
Concentration per Run 2	103.9057 %	100.6809 %	101.2017 %	71.8141 %	99.0323 %	102.0604 %
Concentration per Run 3	104.1726 %	100.3539 %	101.9881 %	74.8828 %	101.6561 %	102.1790 %
Concentration RSD	2.3 %	0.2 %	0.4 %	2.6 %	1.6 %	0.5 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: wg1935943-3 wg1935943
Analysis started at: 6/19/2024 3:21:48 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0496 ppm	1.8481 ppm	0.1176 ppm	0.9812 ppm	1.8857 ppm	0.0451 ppm	23.0138 ppm
Concentration per Run 1	0.0498 ppm	1.8248 ppm	0.1199 ppm	0.9970 ppm	1.8432 ppm	0.0441 ppm	22.4781 ppm
Concentration per Run 2	0.0494 ppm	1.8352 ppm	0.1154 ppm	0.9694 ppm	1.8916 ppm	0.0453 ppm	23.0918 ppm
Concentration per Run 3	0.0496 ppm	1.8842 ppm	0.1175 ppm	0.9771 ppm	1.9223 ppm	0.0459 ppm	23.4716 ppm
Concentration RSD	0.4 %	1.7 %	1.9 %	1.5 %	2.1 %	2.0 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0518 ppm	0.4682 ppm	0.2001 ppm	0.2531 ppm	0.8795 ppm	10.4736 ppm	15.4165 ppm
Concentration per Run 1	0.0526 ppm	0.4756 ppm	0.2002 ppm	0.2539 ppm	0.8533 ppm	10.2315 ppm	15.4139 ppm
Concentration per Run 2	0.0512 ppm	0.4628 ppm	0.2004 ppm	0.2531 ppm	0.8840 ppm	10.5717 ppm	15.4232 ppm
Concentration per Run 3	0.0517 ppm	0.4662 ppm	0.1997 ppm	0.2524 ppm	0.9012 ppm	10.6176 ppm	15.4125 ppm
Concentration RSD	1.3 %	1.4 %	0.2 %	0.3 %	2.8 %	2.0 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4339 ppm	0.9319 ppm	25.8943 ppm	0.4661 ppm	0.5133 ppm	0.4871 ppm	0.1181 ppm
Concentration per Run 1	0.4248 ppm	0.9348 ppm	25.3479 ppm	0.4740 ppm	0.5231 ppm	0.4928 ppm	0.1199 ppm
Concentration per Run 2	0.4362 ppm	0.9213 ppm	25.9794 ppm	0.4602 ppm	0.5066 ppm	0.4802 ppm	0.1167 ppm
Concentration per Run 3	0.4408 ppm	0.9396 ppm	26.3556 ppm	0.4640 ppm	0.5102 ppm	0.4883 ppm	0.1176 ppm
Concentration RSD	1.9 %	1.0 %	2.0 %	1.5 %	1.7 %	1.3 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.1828 ppm	0.9599 ppm	0.9700 ppm	0.9268 ppm	0.1167 ppm	0.4946 ppm	0.4876 ppm
Concentration per Run 1	10.3565 ppm	0.9725 ppm	0.9489 ppm	0.9280 ppm	0.1181 ppm	0.4958 ppm	0.4958 ppm
Concentration per Run 2	10.0665 ppm	0.9477 ppm	0.9730 ppm	0.9281 ppm	0.1152 ppm	0.4934 ppm	0.4818 ppm
Concentration per Run 3	10.1254 ppm	0.9595 ppm	0.9882 ppm	0.9243 ppm	0.1167 ppm	0.4947 ppm	0.4852 ppm
Concentration RSD	1.5 %	1.3 %	2.0 %	0.2 %	1.2 %	0.2 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.3438 %	101.5100 %	102.6124 %	79.8518 %	102.4106 %	105.5773 %
Concentration per Run 1	110.6569 %	102.2259 %	101.7366 %	78.3306 %	101.0468 %	106.0441 %
Concentration per Run 2	107.9037 %	101.0567 %	103.9238 %	79.7582 %	103.4358 %	105.1142 %
Concentration per Run 3	106.4709 %	101.2474 %	102.1769 %	81.4665 %	102.7492 %	105.5736 %
Concentration RSD	2.0 %	0.6 %	1.1 %	2.0 %	1.2 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: wg1935943-4 wg1935943
Analysis started at: 6/19/2024 3:27:54 PM
Comments <Comment>
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0508 ppm	1.9521 ppm	0.1228 ppm	1.0180 ppm	1.9877 ppm	0.0477 ppm	25.1634 ppm
Concentration per Run 1	0.0510 ppm	1.9443 ppm	0.1225 ppm	1.0188 ppm	1.9786 ppm	0.0474 ppm	25.0179 ppm
Concentration per Run 2	0.0513 ppm	1.9479 ppm	0.1239 ppm	1.0160 ppm	1.9872 ppm	0.0477 ppm	25.1814 ppm
Concentration per Run 3	0.0500 ppm	1.9642 ppm	0.1221 ppm	1.0193 ppm	1.9973 ppm	0.0478 ppm	25.2909 ppm
Concentration RSD	1.3 %	0.5 %	0.8 %	0.2 %	0.5 %	0.4 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0535 ppm	0.4848 ppm	0.2064 ppm	0.2607 ppm	0.9293 ppm	11.0640 ppm	16.3279 ppm
Concentration per Run 1	0.0534 ppm	0.4843 ppm	0.2068 ppm	0.2621 ppm	0.9209 ppm	11.0717 ppm	16.3964 ppm
Concentration per Run 2	0.0535 ppm	0.4845 ppm	0.2060 ppm	0.2602 ppm	0.9319 ppm	11.0569 ppm	16.3399 ppm
Concentration per Run 3	0.0537 ppm	0.4855 ppm	0.2065 ppm	0.2596 ppm	0.9351 ppm	11.0633 ppm	16.2473 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.5 %	0.8 %	0.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4576 ppm	0.9697 ppm	28.4441 ppm	0.4823 ppm	0.5300 ppm	0.5083 ppm	0.1236 ppm
Concentration per Run 1	0.4555 ppm	0.9571 ppm	28.3469 ppm	0.4827 ppm	0.5294 ppm	0.5055 ppm	0.1232 ppm
Concentration per Run 2	0.4594 ppm	0.9690 ppm	28.4220 ppm	0.4821 ppm	0.5294 ppm	0.5082 ppm	0.1220 ppm
Concentration per Run 3	0.4580 ppm	0.9830 ppm	28.5635 ppm	0.4820 ppm	0.5312 ppm	0.5112 ppm	0.1257 ppm
Concentration RSD	0.4 %	1.3 %	0.4 %	0.1 %	0.2 %	0.6 %	1.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.1787 ppm	0.9966 ppm	1.0273 ppm	0.9565 ppm	0.1206 ppm	0.5101 ppm	0.5048 ppm
Concentration per Run 1	11.1900 ppm	0.9930 ppm	1.0230 ppm	0.9611 ppm	0.1198 ppm	0.5136 ppm	0.5056 ppm
Concentration per Run 2	11.1654 ppm	0.9966 ppm	1.0265 ppm	0.9571 ppm	0.1221 ppm	0.5096 ppm	0.5039 ppm
Concentration per Run 3	11.1807 ppm	1.0004 ppm	1.0322 ppm	0.9515 ppm	0.1200 ppm	0.5071 ppm	0.5050 ppm
Concentration RSD	0.1 %	0.4 %	0.5 %	0.5 %	1.1 %	0.6 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.2099 %	99.9596 %	100.6124 %	75.2220 %	100.6105 %	103.6674 %
Concentration per Run 1	104.2891 %	100.0586 %	101.1367 %	71.8187 %	100.8674 %	103.3077 %
Concentration per Run 2	104.9484 %	99.7618 %	100.5861 %	76.0281 %	100.6086 %	103.3154 %
Concentration per Run 3	103.3922 %	100.0585 %	100.1143 %	77.8192 %	100.3555 %	104.3792 %
Concentration RSD	0.7 %	0.2 %	0.5 %	4.1 %	0.3 %	0.6 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: wg1935943-5 wg1935943
Analysis started at: 6/19/2024 3:33:59 PM
Comments <Comment>
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0488 ppm	1.8942 ppm	0.1177 ppm	0.9829 ppm	1.9401 ppm	0.0467 ppm	24.2065 ppm
Concentration per Run 1	0.0493 ppm	1.9201 ppm	0.1173 ppm	0.9868 ppm	1.9667 ppm	0.0474 ppm	24.5473 ppm
Concentration per Run 2	0.0485 ppm	1.8921 ppm	0.1178 ppm	0.9802 ppm	1.9277 ppm	0.0464 ppm	24.0528 ppm
Concentration per Run 3	0.0486 ppm	1.8705 ppm	0.1181 ppm	0.9819 ppm	1.9259 ppm	0.0463 ppm	24.0195 ppm
Concentration RSD	0.8 %	1.3 %	0.3 %	0.3 %	1.2 %	1.3 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0514 ppm	0.4653 ppm	0.1978 ppm	0.2505 ppm	0.9116 ppm	10.8831 ppm	15.6418 ppm
Concentration per Run 1	0.0516 ppm	0.4677 ppm	0.1987 ppm	0.2513 ppm	0.9183 ppm	11.0088 ppm	15.6782 ppm
Concentration per Run 2	0.0513 ppm	0.4641 ppm	0.1975 ppm	0.2503 ppm	0.9051 ppm	10.7864 ppm	15.6485 ppm
Concentration per Run 3	0.0513 ppm	0.4641 ppm	0.1973 ppm	0.2499 ppm	0.9115 ppm	10.8541 ppm	15.5988 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	0.3 %	0.7 %	1.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4476 ppm	0.9303 ppm	27.4380 ppm	0.4645 ppm	0.5163 ppm	0.4811 ppm	0.1200 ppm
Concentration per Run 1	0.4531 ppm	0.9230 ppm	27.8367 ppm	0.4668 ppm	0.5195 ppm	0.4789 ppm	0.1198 ppm
Concentration per Run 2	0.4454 ppm	0.9285 ppm	27.2453 ppm	0.4635 ppm	0.5155 ppm	0.4808 ppm	0.1202 ppm
Concentration per Run 3	0.4442 ppm	0.9395 ppm	27.2320 ppm	0.4632 ppm	0.5140 ppm	0.4836 ppm	0.1200 ppm
Concentration RSD	1.1 %	0.9 %	1.3 %	0.4 %	0.6 %	0.5 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.4365 ppm	0.9671 ppm	1.0061 ppm	0.9254 ppm	0.1173 ppm	0.4903 ppm	0.4846 ppm
Concentration per Run 1	10.4864 ppm	0.9701 ppm	1.0195 ppm	0.9298 ppm	0.1182 ppm	0.4932 ppm	0.4869 ppm
Concentration per Run 2	10.4110 ppm	0.9650 ppm	0.9999 ppm	0.9241 ppm	0.1173 ppm	0.4896 ppm	0.4834 ppm
Concentration per Run 3	10.4122 ppm	0.9661 ppm	0.9988 ppm	0.9224 ppm	0.1163 ppm	0.4880 ppm	0.4837 ppm
Concentration RSD	0.4 %	0.3 %	1.2 %	0.4 %	0.8 %	0.5 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.4115 %	101.1874 %	101.7308 %	75.9437 %	101.4081 %	104.4292 %
Concentration per Run 1	102.2587 %	101.7613 %	101.9767 %	72.7084 %	101.0466 %	104.6793 %
Concentration per Run 2	104.1871 %	101.0130 %	101.4420 %	76.5044 %	101.4818 %	104.1459 %
Concentration per Run 3	103.7888 %	100.7879 %	101.7738 %	78.6183 %	101.6960 %	104.4624 %
Concentration RSD	1.0 %	0.5 %	0.3 %	3.9 %	0.3 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: wg1935943-6d5 wg1935943
Analysis started at: 6/19/2024 3:40:05 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0026 ppm	0.0000 ppm	0.0060 ppm	0.0093 ppm	0.0000 ppm	2.9900 ppm
Concentration per Run 1	-0.0005 ppm	-0.0006 ppm	0.0002 ppm	0.0063 ppm	0.0089 ppm	0.0000 ppm	2.9111 ppm
Concentration per Run 2	0.0001 ppm	0.0129 ppm	-0.0007 ppm	0.0060 ppm	0.0094 ppm	-0.0001 ppm	3.0308 ppm
Concentration per Run 3	-0.0004 ppm	-0.0043 ppm	0.0004 ppm	0.0058 ppm	0.0094 ppm	0.0000 ppm	3.0280 ppm
Concentration RSD	120.1 %	342.9 %	1,539.8 %	4.8 %	2.9 %	219.5 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0137 ppm	0.2067 ppm	1.3698 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0158 ppm	0.1898 ppm	1.3748 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0003 ppm	0.0116 ppm	0.2130 ppm	1.3692 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0138 ppm	0.2172 ppm	1.3654 ppm
Concentration RSD	74.1 %	15.0 %	110.4 %	716.1 %	15.5 %	7.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0053 ppm	3.6705 ppm	0.0006 ppm	-0.0003 ppm	0.0063 ppm	-0.0019 ppm
Concentration per Run 1	0.0002 ppm	0.0061 ppm	3.5915 ppm	0.0005 ppm	-0.0001 ppm	0.0085 ppm	-0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0052 ppm	3.7100 ppm	0.0006 ppm	-0.0011 ppm	0.0054 ppm	-0.0009 ppm
Concentration per Run 3	0.0005 ppm	0.0047 ppm	3.7101 ppm	0.0007 ppm	0.0004 ppm	0.0050 ppm	-0.0012 ppm
Concentration RSD	104.0 %	13.9 %	1.9 %	12.5 %	280.2 %	30.5 %	78.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9055 ppm	0.0037 ppm	0.0174 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	1.9201 ppm	0.0039 ppm	0.0170 ppm	0.0011 ppm	0.0005 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 2	1.9130 ppm	0.0040 ppm	0.0177 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 3	1.8833 ppm	0.0031 ppm	0.0176 ppm	0.0006 ppm	0.0005 ppm	-0.0001 ppm	0.0011 ppm
Concentration RSD	1.0 %	13.7 %	2.0 %	55.0 %	7,142.7 %	143.8 %	5.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.7080 %	103.6737 %	104.2351 %	79.5104 %	102.9870 %	105.6330 %
Concentration per Run 1	109.3503 %	103.8879 %	103.8956 %	78.0315 %	102.2730 %	105.3187 %
Concentration per Run 2	105.0469 %	103.6373 %	104.0583 %	78.9682 %	102.8226 %	105.8734 %
Concentration per Run 3	105.7267 %	103.4958 %	104.7513 %	81.5314 %	103.8655 %	105.7068 %
Concentration RSD	2.2 %	0.2 %	0.4 %	2.3 %	0.8 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2432579-03 wg1935943
Analysis started at: 6/19/2024 3:46:21 PM
Comments <Comment>
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	2.6212 ppm	0.0029 ppm	0.0245 ppm	0.0270 ppm	0.0000 ppm	34.2134 ppm
Concentration per Run 1	0.0002 ppm	2.6564 ppm	0.0032 ppm	0.0245 ppm	0.0271 ppm	0.0001 ppm	34.4194 ppm
Concentration per Run 2	0.0006 ppm	2.5816 ppm	0.0024 ppm	0.0252 ppm	0.0270 ppm	0.0000 ppm	33.9549 ppm
Concentration per Run 3	-0.0012 ppm	2.6257 ppm	0.0031 ppm	0.0239 ppm	0.0270 ppm	0.0001 ppm	34.2659 ppm
Concentration RSD	795.1 %	1.4 %	15.6 %	2.5 %	0.3 %	100.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0046 ppm	0.7105 ppm	1.6059 ppm	9.0301 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0051 ppm	0.7122 ppm	1.6148 ppm	9.1107 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0042 ppm	0.7039 ppm	1.6041 ppm	9.0360 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0044 ppm	0.7154 ppm	1.5988 ppm	8.9436 ppm
Concentration RSD	130.6 %	5,970.9 %	19.2 %	9.6 %	0.8 %	0.5 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0489 ppm	0.0023 ppm	11.6193 ppm	0.0017 ppm	-0.0003 ppm	0.0017 ppm	-0.0023 ppm
Concentration per Run 1	0.0490 ppm	0.0023 ppm	11.7042 ppm	0.0018 ppm	-0.0007 ppm	0.0024 ppm	-0.0022 ppm
Concentration per Run 2	0.0489 ppm	0.0022 ppm	11.5414 ppm	0.0016 ppm	-0.0003 ppm	0.0013 ppm	-0.0030 ppm
Concentration per Run 3	0.0489 ppm	0.0024 ppm	11.6123 ppm	0.0016 ppm	0.0001 ppm	0.0015 ppm	-0.0016 ppm
Concentration RSD	0.1 %	4.5 %	0.7 %	7.8 %	140.5 %	33.6 %	31.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.6783 ppm	-0.0001 ppm	0.1693 ppm	0.0044 ppm	0.0010 ppm	0.0006 ppm	0.0027 ppm
Concentration per Run 1	0.6841 ppm	-0.0001 ppm	0.1708 ppm	0.0045 ppm	0.0001 ppm	0.0005 ppm	0.0027 ppm
Concentration per Run 2	0.6763 ppm	-0.0002 ppm	0.1678 ppm	0.0046 ppm	0.0018 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 3	0.6744 ppm	0.0001 ppm	0.1693 ppm	0.0042 ppm	0.0012 ppm	0.0009 ppm	0.0026 ppm
Concentration RSD	0.8 %	200.0 %	0.9 %	4.8 %	84.9 %	39.1 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.1887 %	101.7655 %	102.5852 %	72.9189 %	99.6288 %	101.6194 %
Concentration per Run 1	102.8826 %	101.4385 %	102.5547 %	70.5853 %	98.7175 %	100.7944 %
Concentration per Run 2	103.4380 %	101.7168 %	102.8348 %	73.1498 %	99.9729 %	101.7617 %
Concentration per Run 3	103.2453 %	102.1413 %	102.3659 %	75.0217 %	100.1958 %	102.3019 %
Concentration RSD	0.3 %	0.3 %	0.2 %	3.1 %	0.8 %	0.8 %

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Sample: CCV
Analysis started at: 6/19/2024 3:52:37 PM
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Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4903 ppm	0.5089 ppm	0.4798 ppm	0.4823 ppm	0.4867 ppm	0.4728 ppm	0.4819 ppm
Concentration per Run 1	0.4909 ppm	0.5156 ppm	0.4786 ppm	0.4826 ppm	0.4885 ppm	0.4737 ppm	0.4912 ppm
Concentration per Run 2	0.4894 ppm	0.5175 ppm	0.4809 ppm	0.4814 ppm	0.4879 ppm	0.4737 ppm	0.4820 ppm
Concentration per Run 3	0.4905 ppm	0.4936 ppm	0.4801 ppm	0.4831 ppm	0.4839 ppm	0.4710 ppm	0.4723 ppm
Recovery Percentage 1	98.060 %	101.780 %	95.967 %	96.470 %	97.347 %	94.556 %	96.372 %
Concentration RSD	0.2 %	2.6 %	0.2 %	0.2 %	0.5 %	0.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4842 ppm	0.4934 ppm	0.4989 ppm	0.4953 ppm	0.4724 ppm	4.8659 ppm	0.4903 ppm
Concentration per Run 1	0.4844 ppm	0.4935 ppm	0.4996 ppm	0.4955 ppm	0.4735 ppm	4.8893 ppm	0.4897 ppm
Concentration per Run 2	0.4840 ppm	0.4932 ppm	0.4986 ppm	0.4951 ppm	0.4714 ppm	4.8621 ppm	0.4898 ppm
Concentration per Run 3	0.4843 ppm	0.4936 ppm	0.4985 ppm	0.4954 ppm	0.4723 ppm	4.8464 ppm	0.4913 ppm
Recovery Percentage 1	96.850 %	98.686 %	99.774 %	99.062 %	94.479 %	97.319 %	98.050 %
Concentration RSD	0.0 %	0.0 %	0.1 %	0.0 %	0.2 %	0.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4563 ppm	0.4880 ppm	9.6828 ppm	0.4899 ppm	0.4882 ppm	0.4987 ppm	0.4887 ppm
Concentration per Run 1	0.4578 ppm	0.4872 ppm	9.7086 ppm	0.4900 ppm	0.4885 ppm	0.4984 ppm	0.4903 ppm
Concentration per Run 2	0.4569 ppm	0.4870 ppm	9.6952 ppm	0.4894 ppm	0.4874 ppm	0.4976 ppm	0.4881 ppm
Concentration per Run 3	0.4542 ppm	0.4898 ppm	9.6445 ppm	0.4904 ppm	0.4888 ppm	0.5001 ppm	0.4877 ppm
Recovery Percentage 1	91.257 %	97.593 %	96.828 %	97.984 %	97.650 %	99.738 %	97.743 %
Concentration RSD	0.4 %	0.3 %	0.3 %	0.1 %	0.2 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5457 ppm	0.4899 ppm	0.4731 ppm	0.4847 ppm	0.4934 ppm	0.4924 ppm	0.4978 ppm
Concentration per Run 1	5.5505 ppm	0.4903 ppm	0.4739 ppm	0.4852 ppm	0.4932 ppm	0.4931 ppm	0.4974 ppm
Concentration per Run 2	5.5394 ppm	0.4889 ppm	0.4739 ppm	0.4838 ppm	0.4926 ppm	0.4916 ppm	0.4981 ppm
Concentration per Run 3	5.5471 ppm	0.4906 ppm	0.4715 ppm	0.4851 ppm	0.4944 ppm	0.4926 ppm	0.4980 ppm
Recovery Percentage 1	105.631 %	97.988 %	94.624 %	96.938 %	98.678 %	98.485 %	99.564 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %	0.2 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.8713 %	101.5854 %	102.0785 %	86.4427 %	102.6254 %	106.6386 %
Concentration per Run 1	103.2941 %	101.5352 %	102.3094 %	85.3292 %	102.7723 %	106.4815 %
Concentration per Run 2	103.9812 %	101.4431 %	101.9953 %	86.9994 %	102.6959 %	106.5072 %
Concentration per Run 3	104.3386 %	101.7780 %	101.9307 %	86.9994 %	102.4081 %	106.9272 %
Recovery Percentage 1						
Concentration RSD	0.5 %	0.2 %	0.2 %	1.1 %	0.2 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 3:58:41 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0068 ppm	-0.0008 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0519 ppm
Concentration per Run 1	-0.0003 ppm	0.0001 ppm	-0.0005 ppm	0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0553 ppm
Concentration per Run 2	-0.0001 ppm	0.0134 ppm	-0.0003 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0479 ppm
Concentration per Run 3	-0.0001 ppm	0.0069 ppm	-0.0015 ppm	0.0019 ppm	0.0004 ppm	-0.0001 ppm	0.0524 ppm
Recovery Percentage 1	-3.032 %	6.799 %	-15.060 %	6.228 %	1.915 %	-0.187 %	51.894 %
Concentration RSD	55.6 %	97.4 %	87.6 %	23.3 %	91.8 %	816.9 %	7.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0014 ppm	-0.0493 ppm	0.0070 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	0.0026 ppm	-0.0191 ppm	0.0064 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0004 ppm	-0.0003 ppm	-0.0269 ppm	0.0079 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0019 ppm	-0.1019 ppm	0.0066 ppm
Recovery Percentage 1	-0.046 %	-0.587 %	-3.571 %	2.569 %	2.862 %	-1.973 %	6.960 %
Concentration RSD	636.7 %	142.5 %	71.1 %	104.2 %	105.3 %	92.6 %	11.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0018 ppm	-0.0427 ppm	0.0002 ppm	-0.0003 ppm	0.0032 ppm	-0.0011 ppm
Concentration per Run 1	-0.0006 ppm	0.0021 ppm	-0.0533 ppm	0.0004 ppm	-0.0003 ppm	0.0024 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.0017 ppm	-0.0386 ppm	0.0002 ppm	-0.0004 ppm	0.0035 ppm	-0.0002 ppm
Concentration per Run 3	-0.0003 ppm	0.0016 ppm	-0.0362 ppm	0.0000 ppm	-0.0004 ppm	0.0038 ppm	-0.0032 ppm
Recovery Percentage 1	-2.555 %	3.620 %	-2.136 %	0.780 %	-3.491 %	6.425 %	-11.230 %
Concentration RSD	132.7 %	15.0 %	21.7 %	97.8 %	23.1 %	22.3 %	157.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.0008 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0004 ppm	0.0003 ppm	-0.0003 ppm
Recovery Percentage 1	0.083 %	0.618 %	2.019 %	2.726 %	-2.167 %	1.795 %	-5.141 %
Concentration RSD	108.6 %	103.5 %	72.3 %	38.1 %	28.1 %	78.9 %	51.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.0204 %	103.1959 %	103.7863 %	77.9138 %	101.4289 %	103.8285 %
Concentration per Run 1	100.6851 %	102.9175 %	103.8163 %	74.8148 %	101.1462 %	103.3959 %
Concentration per Run 2	103.7741 %	103.0680 %	103.9573 %	78.5621 %	101.7292 %	103.7088 %
Concentration per Run 3	104.6020 %	103.6022 %	103.5853 %	80.3644 %	101.4112 %	104.3808 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.3 %	0.2 %	3.6 %	0.3 %	0.5 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1936059-1 WG1936059
Analysis started at: 6/19/2024 4:38:50 PM
Comments <Comment>
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0049 ppm	-0.0005 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0125 ppm
Concentration per Run 1	0.0004 ppm	-0.0010 ppm	-0.0008 ppm	0.0025 ppm	-0.0002 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 2	-0.0007 ppm	0.0114 ppm	-0.0002 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 3	-0.0005 ppm	0.0043 ppm	-0.0005 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0123 ppm
Recovery Percentage 1	-3.758 %	4.894 %	-10.386 %	7.767 %	-0.839 %	-0.118 %	12.513 %
Concentration RSD	218.5 %	126.6 %	58.0 %	5.5 %	149.1 %	517.6 %	19.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0037 ppm	-0.0291 ppm	0.0050 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0050 ppm	0.0036 ppm	0.0046 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0041 ppm	-0.0629 ppm	0.0042 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0003 ppm	0.0021 ppm	-0.0280 ppm	0.0063 ppm
Recovery Percentage 1	0.035 %	-0.718 %	1.543 %	-3.965 %	7.473 %	-1.164 %	5.026 %
Concentration RSD	1,992.0 %	144.6 %	44.5 %	18.0 %	39.0 %	114.2 %	22.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	123.4120 ppm	0.0006 ppm	-0.0002 ppm	0.0014 ppm	-0.0010 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	122.2660 ppm	0.0005 ppm	0.0006 ppm	0.0015 ppm	-0.0024 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	123.7793 ppm	0.0005 ppm	-0.0011 ppm	0.0019 ppm	-0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	124.1906 ppm	0.0008 ppm	-0.0001 ppm	0.0009 ppm	0.0003 ppm
Recovery Percentage 1	2.043 %	0.415 %	6,170.598 %	2.438 %	-1.759 %	2.879 %	-9.891 %
Concentration RSD	37.0 %	31.8 %	0.8 %	30.4 %	485.9 %	34.1 %	136.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0207 ppm	0.0007 ppm	0.0003 ppm	-0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0208 ppm	0.0005 ppm	0.0003 ppm	-0.0002 ppm	-0.0012 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 2	0.0213 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	-0.0010 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0199 ppm	0.0008 ppm	0.0003 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage 1	4.135 %	1.498 %	2.630 %	-1.127 %	-4.200 %	1.355 %	6.290 %
Concentration RSD	3.5 %	28.1 %	14.0 %	80.7 %	57.1 %	85.7 %	18.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.1467 %	101.1244 %	101.5006 %	88.3290 %	99.0998 %	106.1713 %
Concentration per Run 1	105.4606 %	101.1716 %	101.9278 %	88.4246 %	99.5115 %	106.0639 %
Concentration per Run 2	103.5150 %	101.3140 %	101.6765 %	87.9100 %	99.0383 %	106.4814 %
Concentration per Run 3	103.4645 %	100.8875 %	100.8974 %	88.6526 %	98.7496 %	105.9686 %
Recovery Percentage 1						
Concentration RSD	1.1 %	0.2 %	0.5 %	0.4 %	0.4 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1936059-2 WG1936059
Analysis started at: 6/19/2024 4:45:11 PM
Comments <Comment>
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0474 ppm	1.8866 ppm	0.1149 ppm	0.8778 ppm	1.8739 ppm	0.0452 ppm	9.0513 ppm
Concentration per Run 1	0.0465 ppm	1.8732 ppm	0.1139 ppm	0.8781 ppm	1.8522 ppm	0.0447 ppm	8.9563 ppm
Concentration per Run 2	0.0478 ppm	1.8927 ppm	0.1145 ppm	0.8683 ppm	1.8797 ppm	0.0453 ppm	9.0468 ppm
Concentration per Run 3	0.0479 ppm	1.8940 ppm	0.1163 ppm	0.8871 ppm	1.8898 ppm	0.0457 ppm	9.1509 ppm
Concentration RSD	1.6 %	0.6 %	1.1 %	1.1 %	1.0 %	1.1 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0509 ppm	0.4654 ppm	0.1933 ppm	0.2447 ppm	0.9089 ppm	9.0282 ppm	8.9588 ppm
Concentration per Run 1	0.0509 ppm	0.4655 ppm	0.1911 ppm	0.2413 ppm	0.8953 ppm	8.8890 ppm	8.8320 ppm
Concentration per Run 2	0.0504 ppm	0.4610 ppm	0.1936 ppm	0.2457 ppm	0.9095 ppm	9.0276 ppm	8.9691 ppm
Concentration per Run 3	0.0513 ppm	0.4698 ppm	0.1952 ppm	0.2472 ppm	0.9219 ppm	9.1681 ppm	9.0753 ppm
Concentration RSD	0.8 %	0.9 %	1.1 %	1.3 %	1.5 %	1.5 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4411 ppm	0.9168 ppm	9.1157 ppm	0.4648 ppm	0.5137 ppm	0.4833 ppm	0.1107 ppm
Concentration per Run 1	0.4375 ppm	0.9144 ppm	9.0322 ppm	0.4652 ppm	0.5139 ppm	0.4839 ppm	0.1087 ppm
Concentration per Run 2	0.4419 ppm	0.9080 ppm	9.1229 ppm	0.4605 ppm	0.5082 ppm	0.4777 ppm	0.1104 ppm
Concentration per Run 3	0.4441 ppm	0.9279 ppm	9.1919 ppm	0.4686 ppm	0.5189 ppm	0.4882 ppm	0.1131 ppm
Concentration RSD	0.8 %	1.1 %	0.9 %	0.9 %	1.0 %	1.1 %	2.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2137 ppm	0.9164 ppm	0.8642 ppm	0.9026 ppm	0.1164 ppm	0.4808 ppm	0.4718 ppm
Concentration per Run 1	1.2152 ppm	0.9157 ppm	0.8544 ppm	0.8891 ppm	0.1163 ppm	0.4742 ppm	0.4718 ppm
Concentration per Run 2	1.2005 ppm	0.9078 ppm	0.8661 ppm	0.9036 ppm	0.1156 ppm	0.4824 ppm	0.4674 ppm
Concentration per Run 3	1.2255 ppm	0.9256 ppm	0.8722 ppm	0.9151 ppm	0.1173 ppm	0.4858 ppm	0.4761 ppm
Concentration RSD	1.0 %	1.0 %	1.0 %	1.4 %	0.7 %	1.2 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.5986 %	102.2216 %	102.8981 %	88.1710 %	102.3345 %	106.7238 %
Concentration per Run 1	105.3448 %	103.5512 %	102.5568 %	88.0413 %	102.2270 %	107.8679 %
Concentration per Run 2	104.5129 %	101.9160 %	103.5541 %	88.5121 %	103.2446 %	106.2326 %
Concentration per Run 3	103.9381 %	101.1977 %	102.5833 %	87.9597 %	101.5319 %	106.0711 %
Concentration RSD	0.7 %	1.2 %	0.6 %	0.3 %	0.8 %	0.9 %

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Sample: L2433046-01 wg1935354
Analysis started at: 6/19/2024 4:51:17 PM
Comments <Comment>
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	0.2216 ppm	-0.0029 ppm	0.3821 ppm	0.0010 ppm	-0.0005 ppm	0.3498 ppm
Concentration per Run 1	0.0009 ppm	0.2068 ppm	-0.0017 ppm	0.3805 ppm	0.0009 ppm	-0.0004 ppm	0.3537 ppm
Concentration per Run 2	0.0011 ppm	0.2167 ppm	-0.0022 ppm	0.3835 ppm	0.0009 ppm	-0.0005 ppm	0.3480 ppm
Concentration per Run 3	0.0008 ppm	0.2414 ppm	-0.0047 ppm	0.3823 ppm	0.0011 ppm	-0.0006 ppm	0.3478 ppm
Concentration RSD	13.1 %	8.0 %	56.0 %	0.4 %	12.7 %	14.8 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0021 ppm	4.7209 ppm	2.4609 ppm	0.0196 ppm	0.0423 ppm	-0.0039 ppm	-0.0284 ppm
Concentration per Run 1	-0.0021 ppm	4.7059 ppm	2.4499 ppm	0.0197 ppm	0.0434 ppm	0.0085 ppm	-0.0291 ppm
Concentration per Run 2	-0.0021 ppm	4.7359 ppm	2.4651 ppm	0.0198 ppm	0.0417 ppm	-0.0256 ppm	-0.0282 ppm
Concentration per Run 3	-0.0021 ppm	4.7209 ppm	2.4677 ppm	0.0193 ppm	0.0419 ppm	0.0056 ppm	-0.0280 ppm
Concentration RSD	1.4 %	0.3 %	0.4 %	1.1 %	2.2 %	490.8 %	2.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0273 ppm	12.4596 ppm	117.0459 ppm	16.6396 ppm	0.0040 ppm	-0.0696 ppm	0.0094 ppm
Concentration per Run 1	0.0267 ppm	12.3968 ppm	116.5543 ppm	16.5698 ppm	0.0040 ppm	-0.0679 ppm	0.0103 ppm
Concentration per Run 2	0.0274 ppm	12.5029 ppm	116.6592 ppm	16.6927 ppm	0.0044 ppm	-0.0705 ppm	0.0100 ppm
Concentration per Run 3	0.0278 ppm	12.4792 ppm	117.9241 ppm	16.6561 ppm	0.0036 ppm	-0.0704 ppm	0.0081 ppm
Concentration RSD	1.9 %	0.4 %	0.7 %	0.4 %	9.9 %	2.1 %	12.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5333 ppm	-0.0003 ppm	0.0011 ppm	0.0260 ppm	-0.0247 ppm	-0.0052 ppm	0.0754 ppm
Concentration per Run 1	0.5308 ppm	-0.0005 ppm	0.0011 ppm	0.0261 ppm	-0.0255 ppm	-0.0054 ppm	0.0752 ppm
Concentration per Run 2	0.5346 ppm	-0.0007 ppm	0.0012 ppm	0.0260 ppm	-0.0241 ppm	-0.0050 ppm	0.0754 ppm
Concentration per Run 3	0.5346 ppm	0.0003 ppm	0.0011 ppm	0.0260 ppm	-0.0246 ppm	-0.0050 ppm	0.0756 ppm
Concentration RSD	0.4 %	160.7 %	1.3 %	0.3 %	3.0 %	4.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.0981 %	102.2683 %	101.2071 %	91.3443 %	100.8555 %	107.6834 %
Concentration per Run 1	107.1923 %	102.4327 %	101.3620 %	90.4344 %	101.0527 %	108.0334 %
Concentration per Run 2	107.2388 %	102.0162 %	101.0943 %	91.7354 %	100.6652 %	107.5905 %
Concentration per Run 3	106.8631 %	102.3559 %	101.1649 %	91.8631 %	100.8485 %	107.4263 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.9 %	0.2 %	0.3 %

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Sample: L2433047-01 wg1935354
Analysis started at: 6/19/2024 4:57:31 PM
Comments <Comment>
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.5167 ppm	0.0004 ppm	0.0110 ppm	0.0066 ppm	0.0000 ppm	31.0370 ppm
Concentration per Run 1	0.0005 ppm	0.5277 ppm	0.0008 ppm	0.0113 ppm	0.0066 ppm	0.0000 ppm	31.3448 ppm
Concentration per Run 2	0.0000 ppm	0.5102 ppm	0.0004 ppm	0.0111 ppm	0.0065 ppm	-0.0001 ppm	30.9310 ppm
Concentration per Run 3	0.0003 ppm	0.5121 ppm	0.0000 ppm	0.0104 ppm	0.0066 ppm	0.0000 ppm	30.8351 ppm
Concentration RSD	95.2 %	1.9 %	90.5 %	4.6 %	1.0 %	617.0 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.2155 ppm	0.0047 ppm	0.0003 ppm	0.7867 ppm	0.4924 ppm	0.2006 ppm
Concentration per Run 1	0.0001 ppm	0.2180 ppm	0.0047 ppm	0.0004 ppm	0.7892 ppm	0.4960 ppm	0.2006 ppm
Concentration per Run 2	0.0000 ppm	0.2181 ppm	0.0050 ppm	0.0003 ppm	0.7848 ppm	0.4671 ppm	0.2027 ppm
Concentration per Run 3	0.0001 ppm	0.2103 ppm	0.0043 ppm	0.0003 ppm	0.7860 ppm	0.5142 ppm	0.1985 ppm
Concentration RSD	52.3 %	2.1 %	7.6 %	27.8 %	0.3 %	4.8 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0412 ppm	0.0238 ppm	123.3850 ppm	0.0254 ppm	0.0027 ppm	0.0005 ppm	-0.0034 ppm
Concentration per Run 1	0.0414 ppm	0.0284 ppm	124.6098 ppm	0.0257 ppm	0.0029 ppm	0.0017 ppm	-0.0056 ppm
Concentration per Run 2	0.0411 ppm	0.0238 ppm	122.9355 ppm	0.0256 ppm	0.0028 ppm	0.0001 ppm	-0.0029 ppm
Concentration per Run 3	0.0412 ppm	0.0192 ppm	122.6096 ppm	0.0248 ppm	0.0024 ppm	-0.0003 ppm	-0.0017 ppm
Concentration RSD	0.4 %	19.3 %	0.9 %	1.9 %	9.5 %	206.2 %	59.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0649 ppm	-0.0001 ppm	0.0120 ppm	0.0007 ppm	-0.0021 ppm	0.0001 ppm	0.0291 ppm
Concentration per Run 1	0.0664 ppm	0.0002 ppm	0.0121 ppm	0.0005 ppm	-0.0029 ppm	0.0002 ppm	0.0295 ppm
Concentration per Run 2	0.0652 ppm	-0.0004 ppm	0.0118 ppm	0.0007 ppm	-0.0024 ppm	0.0000 ppm	0.0294 ppm
Concentration per Run 3	0.0632 ppm	0.0000 ppm	0.0119 ppm	0.0009 ppm	-0.0010 ppm	0.0002 ppm	0.0284 ppm
Concentration RSD	2.5 %	546.6 %	1.3 %	28.7 %	48.5 %	116.5 %	2.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.3497 %	101.6988 %	103.8789 %	87.9724 %	101.3269 %	106.0985 %
Concentration per Run 1	103.8483 %	101.8860 %	102.6478 %	86.2041 %	100.1103 %	106.3084 %
Concentration per Run 2	105.7909 %	101.3777 %	102.4598 %	88.2371 %	100.3568 %	105.5401 %
Concentration per Run 3	106.4099 %	101.8326 %	106.5290 %	89.4759 %	103.5136 %	106.4469 %
Concentration RSD	1.3 %	0.3 %	2.2 %	1.9 %	1.9 %	0.5 %

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Sample: L2433060-01 wg1935354
Analysis started at: 6/19/2024 5:03:47 PM
Comments <Comment>
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.2088 ppm	-0.0002 ppm	0.1620 ppm	0.4826 ppm	-0.0001 ppm	0.7074 ppm
Concentration per Run 1	0.0004 ppm	0.2121 ppm	0.0000 ppm	0.1616 ppm	0.4822 ppm	0.0000 ppm	0.7146 ppm
Concentration per Run 2	-0.0004 ppm	0.2000 ppm	-0.0003 ppm	0.1624 ppm	0.4801 ppm	-0.0001 ppm	0.7042 ppm
Concentration per Run 3	0.0001 ppm	0.2144 ppm	-0.0004 ppm	0.1620 ppm	0.4853 ppm	-0.0001 ppm	0.7033 ppm
Concentration RSD	986.3 %	3.7 %	86.8 %	0.3 %	0.5 %	133.4 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.3144 ppm	0.1350 ppm	0.0115 ppm	0.1271 ppm	0.3968 ppm	0.8550 ppm
Concentration per Run 1	0.0001 ppm	0.3138 ppm	0.1359 ppm	0.0118 ppm	0.1285 ppm	0.3677 ppm	0.8528 ppm
Concentration per Run 2	0.0001 ppm	0.3151 ppm	0.1341 ppm	0.0111 ppm	0.1254 ppm	0.4039 ppm	0.8550 ppm
Concentration per Run 3	0.0002 ppm	0.3142 ppm	0.1350 ppm	0.0117 ppm	0.1275 ppm	0.4188 ppm	0.8571 ppm
Concentration RSD	33.3 %	0.2 %	0.7 %	3.0 %	1.3 %	6.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0619 ppm	0.0156 ppm	115.4431 ppm	0.3297 ppm	0.0011 ppm	0.0024 ppm	-0.0017 ppm
Concentration per Run 1	0.0622 ppm	0.0155 ppm	115.5784 ppm	0.3295 ppm	0.0005 ppm	0.0003 ppm	-0.0020 ppm
Concentration per Run 2	0.0620 ppm	0.0160 ppm	114.8832 ppm	0.3309 ppm	0.0012 ppm	0.0028 ppm	-0.0011 ppm
Concentration per Run 3	0.0616 ppm	0.0154 ppm	115.8677 ppm	0.3287 ppm	0.0017 ppm	0.0039 ppm	-0.0020 ppm
Concentration RSD	0.5 %	1.9 %	0.4 %	0.3 %	53.2 %	78.5 %	29.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9539 ppm	0.0003 ppm	0.0088 ppm	0.0037 ppm	-0.0026 ppm	0.0002 ppm	0.4423 ppm
Concentration per Run 1	0.9518 ppm	0.0000 ppm	0.0088 ppm	0.0036 ppm	-0.0020 ppm	0.0004 ppm	0.4422 ppm
Concentration per Run 2	0.9583 ppm	0.0006 ppm	0.0088 ppm	0.0037 ppm	-0.0036 ppm	-0.0001 ppm	0.4430 ppm
Concentration per Run 3	0.9515 ppm	0.0004 ppm	0.0087 ppm	0.0038 ppm	-0.0021 ppm	0.0004 ppm	0.4416 ppm
Concentration RSD	0.4 %	85.3 %	0.4 %	3.6 %	34.6 %	120.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.4624 %	103.2255 %	103.6952 %	88.2930 %	102.1387 %	110.0470 %
Concentration per Run 1	105.9530 %	103.2809 %	103.6121 %	86.7834 %	102.1638 %	109.4162 %
Concentration per Run 2	107.1583 %	103.2812 %	103.5140 %	88.4413 %	101.9226 %	110.8627 %
Concentration per Run 3	106.2760 %	103.1143 %	103.9595 %	89.6544 %	102.3297 %	109.8620 %
Concentration RSD	0.6 %	0.1 %	0.2 %	1.6 %	0.2 %	0.7 %

ICP DataTrace 5

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Sample: L2433065-01 wg1935354
Analysis started at: 6/19/2024 5:10:02 PM
Comments <Comment>
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0186 ppm	-0.0007 ppm	0.2821 ppm	0.0419 ppm	0.0001 ppm	9.8560 ppm
Concentration per Run 1	-0.0004 ppm	0.0165 ppm	-0.0019 ppm	0.2807 ppm	0.0419 ppm	0.0002 ppm	9.9180 ppm
Concentration per Run 2	0.0000 ppm	0.0150 ppm	-0.0012 ppm	0.2817 ppm	0.0417 ppm	0.0000 ppm	9.7975 ppm
Concentration per Run 3	-0.0005 ppm	0.0243 ppm	0.0008 ppm	0.2839 ppm	0.0420 ppm	0.0001 ppm	9.8526 ppm
Concentration RSD	84.3 %	26.9 %	186.7 %	0.6 %	0.4 %	97.5 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0021 ppm	0.1026 ppm	0.0076 ppm	0.0005 ppm	0.7873 ppm	0.3571 ppm	0.4312 ppm
Concentration per Run 1	0.0021 ppm	0.1024 ppm	0.0076 ppm	0.0005 ppm	0.7873 ppm	0.3574 ppm	0.4329 ppm
Concentration per Run 2	0.0021 ppm	0.1020 ppm	0.0076 ppm	0.0003 ppm	0.7795 ppm	0.3727 ppm	0.4309 ppm
Concentration per Run 3	0.0022 ppm	0.1035 ppm	0.0075 ppm	0.0005 ppm	0.7951 ppm	0.3414 ppm	0.4298 ppm
Concentration RSD	1.6 %	0.8 %	1.0 %	22.0 %	1.0 %	4.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0603 ppm	0.0079 ppm	116.7892 ppm	0.0933 ppm	0.0024 ppm	0.1066 ppm	0.0004 ppm
Concentration per Run 1	0.0608 ppm	0.0080 ppm	117.6940 ppm	0.0930 ppm	0.0024 ppm	0.1054 ppm	0.0000 ppm
Concentration per Run 2	0.0592 ppm	0.0077 ppm	115.8130 ppm	0.0928 ppm	0.0030 ppm	0.1074 ppm	-0.0003 ppm
Concentration per Run 3	0.0609 ppm	0.0079 ppm	116.8606 ppm	0.0940 ppm	0.0018 ppm	0.1069 ppm	0.0016 ppm
Concentration RSD	1.6 %	1.4 %	0.8 %	0.7 %	25.5 %	1.0 %	250.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0990 ppm	0.0001 ppm	0.0322 ppm	0.0004 ppm	-0.0016 ppm	0.0003 ppm	1.8287 ppm
Concentration per Run 1	0.0984 ppm	0.0004 ppm	0.0323 ppm	0.0003 ppm	-0.0020 ppm	0.0005 ppm	1.8223 ppm
Concentration per Run 2	0.0979 ppm	-0.0006 ppm	0.0319 ppm	0.0002 ppm	-0.0013 ppm	0.0001 ppm	1.8240 ppm
Concentration per Run 3	0.1008 ppm	0.0005 ppm	0.0324 ppm	0.0005 ppm	-0.0014 ppm	0.0003 ppm	1.8399 ppm
Concentration RSD	1.5 %	712.3 %	0.9 %	40.5 %	25.0 %	70.6 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.5566 %	102.8498 %	102.8209 %	89.0682 %	101.4766 %	108.5836 %
Concentration per Run 1	106.4323 %	102.3344 %	103.3660 %	87.5786 %	101.8978 %	108.5883 %
Concentration per Run 2	108.7977 %	102.9945 %	102.5119 %	89.6952 %	101.7145 %	108.5021 %
Concentration per Run 3	107.4399 %	103.2207 %	102.5849 %	89.9307 %	100.8173 %	108.6605 %
Concentration RSD	1.1 %	0.4 %	0.5 %	1.5 %	0.6 %	0.1 %

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Sample: CCV
Analysis started at: 6/19/2024 5:16:14 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4642 ppm	0.4635 ppm	0.4506 ppm	0.4545 ppm	0.4593 ppm	0.4472 ppm	0.4572 ppm
Concentration per Run 1	0.4643 ppm	0.4642 ppm	0.4496 ppm	0.4548 ppm	0.4598 ppm	0.4472 ppm	0.4544 ppm
Concentration per Run 2	0.4631 ppm	0.4728 ppm	0.4523 ppm	0.4538 ppm	0.4581 ppm	0.4453 ppm	0.4567 ppm
Concentration per Run 3	0.4651 ppm	0.4535 ppm	0.4498 ppm	0.4548 ppm	0.4601 ppm	0.4490 ppm	0.4605 ppm
Recovery Percentage 1	92.831 %	92.703 %	90.116 %	90.892 %	91.865 %	89.433 %	91.441 %
Concentration RSD	0.2 %	2.1 %	0.3 %	0.1 %	0.2 %	0.4 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4578 ppm	0.4649 ppm	0.4718 ppm	0.4664 ppm	0.4467 ppm	4.6116 ppm	0.4646 ppm
Concentration per Run 1	0.4575 ppm	0.4651 ppm	0.4719 ppm	0.4661 ppm	0.4438 ppm	4.6014 ppm	0.4637 ppm
Concentration per Run 2	0.4575 ppm	0.4639 ppm	0.4720 ppm	0.4651 ppm	0.4486 ppm	4.5973 ppm	0.4624 ppm
Concentration per Run 3	0.4585 ppm	0.4658 ppm	0.4715 ppm	0.4682 ppm	0.4476 ppm	4.6361 ppm	0.4677 ppm
Recovery Percentage 1	91.569 %	92.983 %	94.365 %	93.289 %	89.332 %	92.233 %	92.924 %
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %	0.6 %	0.5 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4320 ppm	0.4610 ppm	9.1736 ppm	0.4627 ppm	0.4610 ppm	0.4664 ppm	0.4629 ppm
Concentration per Run 1	0.4316 ppm	0.4595 ppm	9.1913 ppm	0.4614 ppm	0.4604 ppm	0.4651 ppm	0.4624 ppm
Concentration per Run 2	0.4304 ppm	0.4597 ppm	9.1477 ppm	0.4628 ppm	0.4613 ppm	0.4650 ppm	0.4653 ppm
Concentration per Run 3	0.4340 ppm	0.4640 ppm	9.1817 ppm	0.4638 ppm	0.4611 ppm	0.4691 ppm	0.4609 ppm
Recovery Percentage 1	86.399 %	92.209 %	91.736 %	92.533 %	92.193 %	93.286 %	92.574 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.3 %	0.1 %	0.5 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2321 ppm	0.4611 ppm	0.4468 ppm	0.4573 ppm	0.4664 ppm	0.4657 ppm	0.4708 ppm
Concentration per Run 1	5.2350 ppm	0.4607 ppm	0.4467 ppm	0.4574 ppm	0.4662 ppm	0.4650 ppm	0.4706 ppm
Concentration per Run 2	5.2243 ppm	0.4613 ppm	0.4457 ppm	0.4570 ppm	0.4675 ppm	0.4658 ppm	0.4704 ppm
Concentration per Run 3	5.2371 ppm	0.4612 ppm	0.4482 ppm	0.4575 ppm	0.4655 ppm	0.4662 ppm	0.4714 ppm
Recovery Percentage 1	99.660 %	92.217 %	89.369 %	91.461 %	93.282 %	93.132 %	94.157 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	0.2 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.3242 %	106.2854 %	107.1007 %	90.4914 %	107.3636 %	111.5068 %
Concentration per Run 1	108.8341 %	106.3784 %	107.3814 %	89.1844 %	107.5418 %	111.6843 %
Concentration per Run 2	109.8531 %	106.1873 %	106.9245 %	90.9768 %	107.3410 %	111.4507 %
Concentration per Run 3	109.2854 %	106.2904 %	106.9962 %	91.3131 %	107.2079 %	111.3854 %
Recovery Percentage 1						
Concentration RSD	0.5 %	0.1 %	0.2 %	1.3 %	0.2 %	0.1 %

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Sample: CCB
Analysis started at: 6/19/2024 5:22:19 PM
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Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0078 ppm	0.0005 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0470 ppm
Concentration per Run 1	-0.0002 ppm	0.0079 ppm	-0.0010 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0534 ppm
Concentration per Run 2	0.0003 ppm	0.0119 ppm	0.0016 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0440 ppm
Concentration per Run 3	0.0004 ppm	0.0037 ppm	0.0010 ppm	0.0015 ppm	0.0000 ppm	0.0001 ppm	0.0436 ppm
Recovery Percentage 1	1.910 %	7.810 %	10.378 %	4.626 %	0.463 %	0.135 %	47.007 %
Concentration RSD	244.1 %	52.5 %	266.7 %	7.3 %	491.2 %	983.3 %	11.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0019 ppm	-0.0777 ppm	0.0062 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	-0.0004 ppm	0.0030 ppm	-0.1029 ppm	0.0050 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0443 ppm	0.0086 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0006 ppm	0.0030 ppm	-0.0859 ppm	0.0050 ppm
Recovery Percentage 1	0.182 %	-0.614 %	-1.384 %	-3.842 %	3.869 %	-3.108 %	6.226 %
Concentration RSD	286.7 %	81.1 %	330.4 %	62.7 %	95.1 %	38.8 %	33.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0018 ppm	-0.0415 ppm	0.0003 ppm	-0.0002 ppm	0.0014 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0022 ppm	-0.0481 ppm	0.0002 ppm	0.0002 ppm	0.0022 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	0.0016 ppm	-0.0400 ppm	0.0002 ppm	-0.0002 ppm	0.0007 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0016 ppm	-0.0364 ppm	0.0006 ppm	-0.0007 ppm	0.0013 ppm	-0.0021 ppm
Recovery Percentage 1	-1.807 %	3.553 %	-2.075 %	1.329 %	-2.440 %	2.721 %	-15.025 %
Concentration RSD	110.4 %	19.0 %	14.3 %	65.5 %	173.0 %	55.5 %	48.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0006 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.0009 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 2	0.0004 ppm	-0.0004 ppm	0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 3	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0010 ppm	0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	0.125 %	-0.455 %	2.388 %	0.284 %	-2.340 %	1.792 %	-6.676 %
Concentration RSD	39.9 %	79.3 %	59.7 %	745.1 %	106.9 %	107.8 %	2.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.7417 %	106.7696 %	107.0987 %	79.6764 %	104.6125 %	106.6291 %
Concentration per Run 1	104.1652 %	106.2652 %	107.0128 %	76.2754 %	104.3253 %	105.9175 %
Concentration per Run 2	107.6207 %	106.9714 %	106.9413 %	80.4013 %	104.4511 %	106.7602 %
Concentration per Run 3	108.4392 %	107.0721 %	107.3420 %	82.3527 %	105.0612 %	107.2096 %
Recovery Percentage 1						
Concentration RSD	2.1 %	0.4 %	0.2 %	3.9 %	0.4 %	0.6 %

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Sample: CCV
Analysis started at: 6/19/2024 5:42:59 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4676 ppm	0.4841 ppm	0.4534 ppm	0.4582 ppm	0.4791 ppm	0.4641 ppm	0.4743 ppm
Concentration per Run 1	0.4674 ppm	0.4944 ppm	0.4544 ppm	0.4572 ppm	0.4903 ppm	0.4752 ppm	0.4869 ppm
Concentration per Run 2	0.4677 ppm	0.4802 ppm	0.4525 ppm	0.4582 ppm	0.4729 ppm	0.4585 ppm	0.4732 ppm
Concentration per Run 3	0.4675 ppm	0.4778 ppm	0.4534 ppm	0.4592 ppm	0.4740 ppm	0.4588 ppm	0.4629 ppm
Recovery Percentage 1	93.513 %	96.822 %	90.688 %	91.639 %	95.814 %	92.828 %	94.865 %
Concentration RSD	0.0 %	1.8 %	0.2 %	0.2 %	2.0 %	2.1 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4567 ppm	0.4643 ppm	0.4692 ppm	0.4654 ppm	0.4699 ppm	4.8494 ppm	0.4643 ppm
Concentration per Run 1	0.4557 ppm	0.4632 ppm	0.4676 ppm	0.4648 ppm	0.4779 ppm	4.9543 ppm	0.4643 ppm
Concentration per Run 2	0.4572 ppm	0.4652 ppm	0.4700 ppm	0.4661 ppm	0.4686 ppm	4.7563 ppm	0.4626 ppm
Concentration per Run 3	0.4572 ppm	0.4645 ppm	0.4700 ppm	0.4655 ppm	0.4634 ppm	4.8376 ppm	0.4659 ppm
Recovery Percentage 1	91.340 %	92.859 %	93.842 %	93.088 %	93.988 %	96.988 %	92.852 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.1 %	1.6 %	2.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4508 ppm	0.4569 ppm	9.5145 ppm	0.4658 ppm	0.4644 ppm	0.4685 ppm	0.4676 ppm
Concentration per Run 1	0.4619 ppm	0.4538 ppm	9.7367 ppm	0.4646 ppm	0.4633 ppm	0.4666 ppm	0.4669 ppm
Concentration per Run 2	0.4455 ppm	0.4578 ppm	9.3897 ppm	0.4666 ppm	0.4651 ppm	0.4708 ppm	0.4693 ppm
Concentration per Run 3	0.4452 ppm	0.4591 ppm	9.4171 ppm	0.4662 ppm	0.4649 ppm	0.4681 ppm	0.4667 ppm
Recovery Percentage 1	90.166 %	91.378 %	95.145 %	93.157 %	92.889 %	93.702 %	93.525 %
Concentration RSD	2.1 %	0.6 %	2.0 %	0.2 %	0.2 %	0.5 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9117 ppm	0.4710 ppm	0.4699 ppm	0.4601 ppm	0.4651 ppm	0.4665 ppm	0.4701 ppm
Concentration per Run 1	4.8978 ppm	0.4695 ppm	0.4804 ppm	0.4602 ppm	0.4634 ppm	0.4661 ppm	0.4686 ppm
Concentration per Run 2	4.9159 ppm	0.4720 ppm	0.4642 ppm	0.4603 ppm	0.4668 ppm	0.4665 ppm	0.4707 ppm
Concentration per Run 3	4.9213 ppm	0.4715 ppm	0.4651 ppm	0.4599 ppm	0.4652 ppm	0.4668 ppm	0.4709 ppm
Recovery Percentage 1	93.556 %	94.200 %	93.979 %	92.028 %	93.025 %	93.292 %	94.011 %
Concentration RSD	0.3 %	0.3 %	1.9 %	0.1 %	0.4 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.0973 %	107.0923 %	107.7828 %	96.1188 %	107.9457 %	111.8144 %
Concentration per Run 1	103.6651 %	107.2510 %	107.9005 %	97.7264 %	108.2450 %	112.3387 %
Concentration per Run 2	105.9017 %	107.2259 %	107.7342 %	96.0556 %	107.8346 %	111.8832 %
Concentration per Run 3	105.7250 %	106.8001 %	107.7137 %	94.5744 %	107.7576 %	111.2213 %
Recovery Percentage 1						
Concentration RSD	1.2 %	0.2 %	0.1 %	1.6 %	0.2 %	0.5 %

ICP DataTrace 5

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Sample: CCB
Analysis started at: 6/19/2024 5:49:03 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0025 ppm	-0.0002 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0352 ppm
Concentration per Run 1	0.0000 ppm	0.0014 ppm	0.0000 ppm	0.0014 ppm	0.0000 ppm	-0.0001 ppm	0.0403 ppm
Concentration per Run 2	-0.0004 ppm	0.0036 ppm	-0.0009 ppm	0.0011 ppm	0.0002 ppm	-0.0001 ppm	0.0279 ppm
Concentration per Run 3	0.0000 ppm	0.0023 ppm	0.0004 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	0.0373 ppm
Recovery Percentage 1	-1.530 %	2.464 %	-3.586 %	4.055 %	1.217 %	-0.638 %	35.173 %
Concentration RSD	219.9 %	44.6 %	375.9 %	10.5 %	120.5 %	350.6 %	18.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0014 ppm	-0.1004 ppm	0.0052 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0000 ppm	0.0012 ppm	-0.0850 ppm	0.0050 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0025 ppm	-0.0921 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.1242 ppm	0.0065 ppm
Recovery Percentage 1	-0.019 %	-0.735 %	-2.799 %	-0.169 %	2.832 %	-4.016 %	5.232 %
Concentration RSD	2,867.9 %	46.0 %	98.2 %	307.6 %	68.4 %	20.8 %	23.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0016 ppm	-0.0444 ppm	0.0004 ppm	0.0003 ppm	0.0012 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0018 ppm	-0.0483 ppm	0.0005 ppm	0.0003 ppm	0.0009 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0017 ppm	-0.0354 ppm	0.0003 ppm	0.0001 ppm	0.0013 ppm	-0.0021 ppm
Concentration per Run 3	0.0002 ppm	0.0014 ppm	-0.0494 ppm	0.0005 ppm	0.0007 ppm	0.0015 ppm	-0.0020 ppm
Recovery Percentage 1	1.283 %	3.237 %	-2.218 %	1.731 %	3.332 %	2.460 %	-7.924 %
Concentration RSD	133.0 %	11.3 %	17.6 %	29.9 %	92.4 %	24.0 %	279.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.0009 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 2	0.0006 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 3	0.0016 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm
Recovery Percentage 1	0.203 %	-0.261 %	0.773 %	2.448 %	1.867 %	1.959 %	-5.626 %
Concentration RSD	51.0 %	182.0 %	228.7 %	105.0 %	128.6 %	113.3 %	25.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.4563 %	109.8885 %	108.7043 %	80.7253 %	105.4943 %	109.5735 %
Concentration per Run 1	108.0971 %	110.5593 %	109.1304 %	78.3023 %	105.6829 %	109.5587 %
Concentration per Run 2	108.1213 %	110.3768 %	108.4019 %	80.5043 %	105.4689 %	110.0885 %
Concentration per Run 3	109.1505 %	108.7295 %	108.5807 %	83.3694 %	105.3311 %	109.0732 %
Recovery Percentage 1						
Concentration RSD	0.6 %	0.9 %	0.3 %	3.1 %	0.2 %	0.5 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1936030-1 WG1936030
Analysis started at: 6/19/2024 6:12:43 PM
Comments <Comment>
Rack: 2
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0025 ppm	0.0003 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0311 ppm
Concentration per Run 1	-0.0004 ppm	-0.0035 ppm	-0.0011 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0288 ppm
Concentration per Run 2	-0.0001 ppm	0.0098 ppm	-0.0002 ppm	0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0282 ppm
Concentration per Run 3	0.0005 ppm	0.0012 ppm	0.0020 ppm	0.0025 ppm	-0.0001 ppm	-0.0001 ppm	0.0362 ppm
Recovery Percentage 1	0.181 %	2.488 %	5.055 %	6.996 %	0.989 %	-0.081 %	31.090 %
Concentration RSD	3,614.2 %	270.9 %	622.5 %	18.0 %	168.3 %	1,275.1 %	14.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0035 ppm	-0.0478 ppm	0.0073 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0037 ppm	-0.0214 ppm	0.0073 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0002 ppm	0.0043 ppm	-0.0824 ppm	0.0080 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0025 ppm	-0.0396 ppm	0.0066 ppm
Recovery Percentage 1	0.666 %	-1.142 %	0.807 %	-1.384 %	6.997 %	-1.911 %	7.305 %
Concentration RSD	121.7 %	91.1 %	395.3 %	88.4 %	27.3 %	65.5 %	9.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	119.3803 ppm	0.0005 ppm	0.0000 ppm	0.0010 ppm	-0.0014 ppm
Concentration per Run 1	-0.0005 ppm	0.0005 ppm	114.3785 ppm	0.0003 ppm	0.0005 ppm	0.0014 ppm	-0.0018 ppm
Concentration per Run 2	0.0006 ppm	0.0004 ppm	119.9931 ppm	0.0004 ppm	0.0005 ppm	0.0017 ppm	-0.0026 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	123.7693 ppm	0.0007 ppm	-0.0009 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	1.133 %	0.974 %	5,969.014 %	1.888 %	0.188 %	2.080 %	-13.570 %
Concentration RSD	466.9 %	22.6 %	4.0 %	50.0 %	4,463.2 %	91.1 %	106.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0163 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0155 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0011 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0164 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0170 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm
Recovery Percentage 1	3.257 %	-0.060 %	2.030 %	-0.340 %	-3.288 %	1.361 %	-1.076 %
Concentration RSD	4.8 %	237.2 %	55.8 %	1,127.3 %	58.9 %	130.5 %	99.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.2449 %	104.0933 %	104.4570 %	101.3774 %	100.6251 %	108.4477 %
Concentration per Run 1	108.5862 %	104.0006 %	104.5076 %	109.4793 %	100.9870 %	108.3134 %
Concentration per Run 2	103.3864 %	104.6592 %	104.3087 %	100.6489 %	100.7199 %	109.4472 %
Concentration per Run 3	100.7620 %	103.6200 %	104.5548 %	94.0039 %	100.1683 %	107.5825 %
Recovery Percentage 1						
Concentration RSD	3.8 %	0.5 %	0.1 %	7.7 %	0.4 %	0.9 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1936030-2 WG1936030
Analysis started at: 6/19/2024 6:19:02 PM
Comments <Comment>
Rack: 2
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0439 ppm	1.8107 ppm	0.1050 ppm	0.8433 ppm	1.7573 ppm	0.0427 ppm	8.6290 ppm
Concentration per Run 1	0.0437 ppm	1.7870 ppm	0.1056 ppm	0.8507 ppm	1.7425 ppm	0.0423 ppm	8.5387 ppm
Concentration per Run 2	0.0435 ppm	1.8160 ppm	0.1056 ppm	0.8456 ppm	1.7555 ppm	0.0427 ppm	8.6116 ppm
Concentration per Run 3	0.0444 ppm	1.8292 ppm	0.1039 ppm	0.8337 ppm	1.7740 ppm	0.0432 ppm	8.7365 ppm
Concentration RSD	1.0 %	1.2 %	0.9 %	1.0 %	0.9 %	1.1 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0459 ppm	0.4271 ppm	0.1743 ppm	0.2223 ppm	0.8404 ppm	8.6907 ppm	8.1489 ppm
Concentration per Run 1	0.0463 ppm	0.4308 ppm	0.1738 ppm	0.2219 ppm	0.8321 ppm	8.6155 ppm	8.1137 ppm
Concentration per Run 2	0.0460 ppm	0.4286 ppm	0.1741 ppm	0.2223 ppm	0.8394 ppm	8.6882 ppm	8.1578 ppm
Concentration per Run 3	0.0453 ppm	0.4219 ppm	0.1751 ppm	0.2228 ppm	0.8497 ppm	8.7684 ppm	8.1750 ppm
Concentration RSD	1.1 %	1.1 %	0.4 %	0.2 %	1.0 %	0.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4056 ppm	0.8818 ppm	120.8566 ppm	0.4226 ppm	0.4643 ppm	0.4418 ppm	0.1063 ppm
Concentration per Run 1	0.4022 ppm	0.8861 ppm	119.8692 ppm	0.4267 ppm	0.4671 ppm	0.4468 ppm	0.1074 ppm
Concentration per Run 2	0.4051 ppm	0.8854 ppm	120.6452 ppm	0.4231 ppm	0.4666 ppm	0.4434 ppm	0.1048 ppm
Concentration per Run 3	0.4095 ppm	0.8738 ppm	122.0555 ppm	0.4179 ppm	0.4592 ppm	0.4352 ppm	0.1065 ppm
Concentration RSD	0.9 %	0.8 %	0.9 %	1.0 %	0.9 %	1.4 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9370 ppm	0.8481 ppm	0.8153 ppm	0.8535 ppm	0.1007 ppm	0.4437 ppm	0.4339 ppm
Concentration per Run 1	0.9456 ppm	0.8548 ppm	0.8089 ppm	0.8503 ppm	0.1024 ppm	0.4433 ppm	0.4375 ppm
Concentration per Run 2	0.9389 ppm	0.8524 ppm	0.8139 ppm	0.8546 ppm	0.1008 ppm	0.4436 ppm	0.4354 ppm
Concentration per Run 3	0.9265 ppm	0.8372 ppm	0.8231 ppm	0.8555 ppm	0.0990 ppm	0.4443 ppm	0.4290 ppm
Concentration RSD	1.0 %	1.1 %	0.9 %	0.3 %	1.7 %	0.1 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.1617 %	104.6414 %	105.5833 %	91.4785 %	102.2561 %	108.0007 %
Concentration per Run 1	106.3286 %	105.0821 %	104.9227 %	91.7168 %	101.4038 %	108.1426 %
Concentration per Run 2	105.8298 %	104.4680 %	104.5940 %	92.0025 %	101.9932 %	107.9327 %
Concentration per Run 3	103.3268 %	104.3742 %	107.2334 %	90.7162 %	103.3715 %	107.9268 %
Concentration RSD	1.5 %	0.4 %	1.4 %	0.7 %	1.0 %	0.1 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1936030-3 WG1936030
Analysis started at: 6/19/2024 6:25:09 PM
Comments <Comment>
Rack: 2
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0462 ppm	1.9465 ppm	0.1120 ppm	0.8906 ppm	1.8918 ppm	0.0462 ppm	9.3026 ppm
Concentration per Run 1	0.0462 ppm	1.9850 ppm	0.1117 ppm	0.8862 ppm	1.9316 ppm	0.0469 ppm	9.4894 ppm
Concentration per Run 2	0.0461 ppm	1.9283 ppm	0.1121 ppm	0.8913 ppm	1.8719 ppm	0.0458 ppm	9.2351 ppm
Concentration per Run 3	0.0465 ppm	1.9262 ppm	0.1124 ppm	0.8943 ppm	1.8720 ppm	0.0458 ppm	9.1835 ppm
Concentration RSD	0.4 %	1.7 %	0.3 %	0.5 %	1.8 %	1.4 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0484 ppm	0.4530 ppm	0.1851 ppm	0.2352 ppm	0.9040 ppm	9.3869 ppm	8.6184 ppm
Concentration per Run 1	0.0481 ppm	0.4503 ppm	0.1855 ppm	0.2357 ppm	0.9167 ppm	9.6174 ppm	8.6208 ppm
Concentration per Run 2	0.0484 ppm	0.4539 ppm	0.1848 ppm	0.2344 ppm	0.9006 ppm	9.2841 ppm	8.6250 ppm
Concentration per Run 3	0.0486 ppm	0.4549 ppm	0.1849 ppm	0.2356 ppm	0.8946 ppm	9.2591 ppm	8.6095 ppm
Concentration RSD	0.5 %	0.5 %	0.2 %	0.3 %	1.3 %	2.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4376 ppm	0.9396 ppm	129.4037 ppm	0.4466 ppm	0.4909 ppm	0.4674 ppm	0.1084 ppm
Concentration per Run 1	0.4464 ppm	0.9337 ppm	132.3441 ppm	0.4433 ppm	0.4885 ppm	0.4647 ppm	0.1073 ppm
Concentration per Run 2	0.4332 ppm	0.9390 ppm	128.1077 ppm	0.4472 ppm	0.4916 ppm	0.4679 ppm	0.1067 ppm
Concentration per Run 3	0.4333 ppm	0.9461 ppm	127.7593 ppm	0.4493 ppm	0.4926 ppm	0.4697 ppm	0.1111 ppm
Concentration RSD	1.7 %	0.7 %	2.0 %	0.7 %	0.4 %	0.5 %	2.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9898 ppm	0.8991 ppm	0.8805 ppm	0.9059 ppm	0.1060 ppm	0.4705 ppm	0.4587 ppm
Concentration per Run 1	0.9834 ppm	0.8948 ppm	0.8998 ppm	0.9041 ppm	0.1052 ppm	0.4713 ppm	0.4562 ppm
Concentration per Run 2	0.9914 ppm	0.9004 ppm	0.8729 ppm	0.9072 ppm	0.1056 ppm	0.4706 ppm	0.4593 ppm
Concentration per Run 3	0.9946 ppm	0.9021 ppm	0.8689 ppm	0.9063 ppm	0.1072 ppm	0.4696 ppm	0.4604 ppm
Concentration RSD	0.6 %	0.4 %	1.9 %	0.2 %	1.0 %	0.2 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.8778 %	105.1837 %	106.0548 %	89.3218 %	103.0283 %	108.3670 %
Concentration per Run 1	101.3564 %	105.1502 %	106.8114 %	86.4873 %	103.5335 %	108.2046 %
Concentration per Run 2	104.7216 %	105.1887 %	105.7295 %	89.7233 %	102.8795 %	108.5014 %
Concentration per Run 3	105.5554 %	105.2120 %	105.6236 %	91.7550 %	102.6720 %	108.3952 %
Concentration RSD	2.1 %	0.0 %	0.6 %	3.0 %	0.4 %	0.1 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2431372-01d2 WG1935403
Analysis started at: 6/19/2024 6:31:20 PM
Comments <Comment>
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0017 ppm	25.9006 ppm	0.0069 ppm	0.0038 ppm	0.2106 ppm	0.0014 ppm	5.9233 ppm
Concentration per Run 1	0.0017 ppm	26.6009 ppm	0.0067 ppm	0.0040 ppm	0.2163 ppm	0.0014 ppm	6.0674 ppm
Concentration per Run 2	0.0018 ppm	25.6532 ppm	0.0074 ppm	0.0035 ppm	0.2082 ppm	0.0015 ppm	5.8544 ppm
Concentration per Run 3	0.0017 ppm	25.4478 ppm	0.0068 ppm	0.0038 ppm	0.2071 ppm	0.0014 ppm	5.8480 ppm
Concentration RSD	3.6 %	2.4 %	5.2 %	6.0 %	2.4 %	3.6 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0031 ppm	0.0195 ppm	0.2828 ppm	0.6180 ppm	53.1987 ppm	4.4320 ppm	10.7174 ppm
Concentration per Run 1	0.0031 ppm	0.0195 ppm	0.2824 ppm	0.6194 ppm	54.5380 ppm	4.5539 ppm	10.7356 ppm
Concentration per Run 2	0.0031 ppm	0.0193 ppm	0.2827 ppm	0.6154 ppm	52.5688 ppm	4.4079 ppm	10.6626 ppm
Concentration per Run 3	0.0031 ppm	0.0197 ppm	0.2833 ppm	0.6194 ppm	52.4894 ppm	4.3342 ppm	10.7541 ppm
Concentration RSD	0.1 %	1.2 %	0.2 %	0.4 %	2.2 %	2.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6968 ppm	0.0033 ppm	0.3763 ppm	0.0748 ppm	0.1569 ppm	0.0021 ppm	-0.0001 ppm
Concentration per Run 1	0.7151 ppm	0.0036 ppm	0.3891 ppm	0.0750 ppm	0.1567 ppm	0.0006 ppm	0.0022 ppm
Concentration per Run 2	0.6884 ppm	0.0035 ppm	0.3701 ppm	0.0745 ppm	0.1574 ppm	0.0034 ppm	-0.0026 ppm
Concentration per Run 3	0.6868 ppm	0.0030 ppm	0.3697 ppm	0.0747 ppm	0.1566 ppm	0.0023 ppm	0.0003 ppm
Concentration RSD	2.3 %	10.3 %	3.0 %	0.4 %	0.3 %	68.8 %	4,355.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.3557 ppm	0.0138 ppm	0.0235 ppm	1.5245 ppm	0.0012 ppm	0.0787 ppm	0.5400 ppm
Concentration per Run 1	1.3587 ppm	0.0142 ppm	0.0241 ppm	1.5259 ppm	0.0002 ppm	0.0789 ppm	0.5415 ppm
Concentration per Run 2	1.3525 ppm	0.0139 ppm	0.0232 ppm	1.5182 ppm	0.0022 ppm	0.0784 ppm	0.5393 ppm
Concentration per Run 3	1.3558 ppm	0.0134 ppm	0.0232 ppm	1.5293 ppm	0.0013 ppm	0.0789 ppm	0.5390 ppm
Concentration RSD	0.2 %	3.0 %	2.1 %	0.4 %	79.8 %	0.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	113.7106 %	116.3737 %	116.5174 %	89.1299 %	109.5825 %	113.5411 %
Concentration per Run 1	111.3007 %	116.4101 %	116.3617 %	85.5954 %	109.2353 %	113.2396 %
Concentration per Run 2	114.9478 %	116.7370 %	116.4800 %	90.0887 %	109.6693 %	113.7488 %
Concentration per Run 3	114.8834 %	115.9739 %	116.7104 %	91.7055 %	109.8431 %	113.6350 %
Concentration RSD	1.8 %	0.3 %	0.2 %	3.6 %	0.3 %	0.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2431372-02d2 WG1935403
Analysis started at: 6/19/2024 6:37:34 PM
Comments <Comment>
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.1341 ppm	63.3232 ppm	0.0293 ppm	0.0108 ppm	0.7681 ppm	0.0034 ppm	9.9501 ppm
Concentration per Run 1	0.1339 ppm	64.4473 ppm	0.0289 ppm	0.0106 ppm	0.7815 ppm	0.0035 ppm	10.1237 ppm
Concentration per Run 2	0.1345 ppm	62.9470 ppm	0.0291 ppm	0.0107 ppm	0.7636 ppm	0.0034 ppm	9.8806 ppm
Concentration per Run 3	0.1338 ppm	62.5754 ppm	0.0300 ppm	0.0112 ppm	0.7594 ppm	0.0034 ppm	9.8459 ppm
Concentration RSD	0.3 %	1.6 %	2.0 %	2.9 %	1.5 %	2.5 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0794 ppm	0.0489 ppm	9.1544 ppm	18.2849 ppm	103.2830 ppm	15.1238 ppm	22.5802 ppm
Concentration per Run 1	0.0795 ppm	0.0490 ppm	9.1556 ppm	18.2463 ppm	105.0431 ppm	15.4063 ppm	22.5719 ppm
Concentration per Run 2	0.0795 ppm	0.0488 ppm	9.1559 ppm	18.2608 ppm	102.6245 ppm	14.9715 ppm	22.5992 ppm
Concentration per Run 3	0.0792 ppm	0.0489 ppm	9.1517 ppm	18.3476 ppm	102.1814 ppm	14.9935 ppm	22.5695 ppm
Concentration RSD	0.2 %	0.2 %	0.0 %	0.3 %	1.5 %	1.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.3065 ppm	0.0120 ppm	0.7128 ppm	0.8804 ppm	1.4415 ppm	0.0143 ppm	0.0008 ppm
Concentration per Run 1	1.3301 ppm	0.0119 ppm	0.7240 ppm	0.8821 ppm	1.4452 ppm	0.0153 ppm	0.0026 ppm
Concentration per Run 2	1.2973 ppm	0.0122 ppm	0.6963 ppm	0.8801 ppm	1.4398 ppm	0.0132 ppm	0.0023 ppm
Concentration per Run 3	1.2922 ppm	0.0118 ppm	0.7181 ppm	0.8791 ppm	1.4395 ppm	0.0145 ppm	-0.0026 ppm
Concentration RSD	1.6 %	1.3 %	2.0 %	0.2 %	0.2 %	7.4 %	377.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.9295 ppm	0.5733 ppm	0.0668 ppm	4.2407 ppm	0.0030 ppm	0.2580 ppm	8.8742 ppm
Concentration per Run 1	2.9373 ppm	0.5743 ppm	0.0680 ppm	4.2396 ppm	0.0028 ppm	0.2584 ppm	8.8958 ppm
Concentration per Run 2	2.9320 ppm	0.5731 ppm	0.0664 ppm	4.2449 ppm	0.0037 ppm	0.2589 ppm	8.8720 ppm
Concentration per Run 3	2.9194 ppm	0.5724 ppm	0.0661 ppm	4.2377 ppm	0.0025 ppm	0.2567 ppm	8.8548 ppm
Concentration RSD	0.3 %	0.2 %	1.6 %	0.1 %	21.8 %	0.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	124.7162 %	124.0200 %	116.8229 %	93.3625 %	107.9492 %	113.8245 %
Concentration per Run 1	122.5716 %	124.1287 %	116.9919 %	90.8831 %	107.9936 %	113.7640 %
Concentration per Run 2	125.6811 %	124.0097 %	116.8887 %	94.0680 %	107.9525 %	113.9163 %
Concentration per Run 3	125.8957 %	123.9217 %	116.5882 %	95.1364 %	107.9014 %	113.7930 %
Concentration RSD	1.5 %	0.1 %	0.2 %	2.4 %	0.0 %	0.1 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2431372-03d2 WG1935403
Analysis started at: 6/19/2024 6:43:50 PM
Comments <Comment>
Rack: 2
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	67.8423 ppm	0.0303 ppm	0.0027 ppm	0.5250 ppm	0.0016 ppm	12.0640 ppm
Concentration per Run 1	0.0006 ppm	67.1206 ppm	0.0313 ppm	0.0022 ppm	0.5194 ppm	0.0016 ppm	11.9562 ppm
Concentration per Run 2	0.0003 ppm	67.9634 ppm	0.0314 ppm	0.0029 ppm	0.5261 ppm	0.0016 ppm	12.0716 ppm
Concentration per Run 3	0.0002 ppm	68.4431 ppm	0.0282 ppm	0.0030 ppm	0.5295 ppm	0.0016 ppm	12.1642 ppm
Concentration RSD	64.6 %	1.0 %	6.1 %	17.0 %	1.0 %	0.6 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0024 ppm	0.0563 ppm	0.1245 ppm	0.1385 ppm	114.1157 ppm	19.2467 ppm	35.8926 ppm
Concentration per Run 1	0.0024 ppm	0.0564 ppm	0.1249 ppm	0.1386 ppm	112.9901 ppm	19.0682 ppm	35.9324 ppm
Concentration per Run 2	0.0024 ppm	0.0563 ppm	0.1254 ppm	0.1394 ppm	114.3062 ppm	19.2449 ppm	36.0517 ppm
Concentration per Run 3	0.0023 ppm	0.0562 ppm	0.1233 ppm	0.1376 ppm	115.0510 ppm	19.4270 ppm	35.6937 ppm
Concentration RSD	1.5 %	0.1 %	0.9 %	0.6 %	0.9 %	0.9 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4458 ppm	0.0052 ppm	0.5651 ppm	0.0958 ppm	0.0422 ppm	0.0046 ppm	-0.0023 ppm
Concentration per Run 1	1.4326 ppm	0.0051 ppm	0.5604 ppm	0.0957 ppm	0.0424 ppm	0.0045 ppm	-0.0024 ppm
Concentration per Run 2	1.4458 ppm	0.0052 ppm	0.5745 ppm	0.0961 ppm	0.0421 ppm	0.0044 ppm	-0.0008 ppm
Concentration per Run 3	1.4590 ppm	0.0053 ppm	0.5603 ppm	0.0957 ppm	0.0420 ppm	0.0050 ppm	-0.0037 ppm
Concentration RSD	0.9 %	1.7 %	1.4 %	0.2 %	0.5 %	7.4 %	64.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.0827 ppm	0.0026 ppm	0.0375 ppm	5.3167 ppm	0.0029 ppm	0.2022 ppm	0.2749 ppm
Concentration per Run 1	3.0844 ppm	0.0023 ppm	0.0370 ppm	5.3221 ppm	0.0024 ppm	0.2024 ppm	0.2751 ppm
Concentration per Run 2	3.0840 ppm	0.0021 ppm	0.0376 ppm	5.3366 ppm	0.0037 ppm	0.2030 ppm	0.2753 ppm
Concentration per Run 3	3.0798 ppm	0.0033 ppm	0.0378 ppm	5.2914 ppm	0.0026 ppm	0.2013 ppm	0.2744 ppm
Concentration RSD	0.1 %	24.7 %	1.1 %	0.4 %	24.7 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	121.4170 %	119.5858 %	119.6422 %	96.7659 %	109.0985 %	115.2191 %
Concentration per Run 1	122.3592 %	119.4280 %	120.4553 %	96.4803 %	109.3752 %	115.2592 %
Concentration per Run 2	121.4017 %	118.7944 %	119.3774 %	96.8233 %	108.6655 %	114.3154 %
Concentration per Run 3	120.4901 %	120.5348 %	119.0938 %	96.9940 %	109.2548 %	116.0829 %
Concentration RSD	0.8 %	0.7 %	0.6 %	0.3 %	0.3 %	0.8 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2432929-01 WG1936059
Analysis started at: 6/19/2024 6:50:00 PM
Comments <Comment>
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0216 ppm	-0.0005 ppm	0.0041 ppm	0.0209 ppm	0.0000 ppm	21.2937 ppm
Concentration per Run 1	-0.0006 ppm	0.0183 ppm	-0.0005 ppm	0.0038 ppm	0.0213 ppm	0.0001 ppm	21.6201 ppm
Concentration per Run 2	0.0000 ppm	0.0264 ppm	-0.0015 ppm	0.0043 ppm	0.0209 ppm	-0.0001 ppm	21.1085 ppm
Concentration per Run 3	0.0001 ppm	0.0200 ppm	0.0006 ppm	0.0043 ppm	0.0206 ppm	0.0001 ppm	21.1525 ppm
Concentration RSD	211.8 %	19.8 %	224.5 %	6.4 %	1.6 %	211.6 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0433 ppm	0.0742 ppm	2.9743 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0481 ppm	0.0829 ppm	2.9598 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0443 ppm	0.0568 ppm	2.9849 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0376 ppm	0.0829 ppm	2.9783 ppm
Concentration RSD	27.5 %	67.0 %	32.6 %	375.4 %	12.3 %	20.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1335 ppm	0.0002 ppm	119.6893 ppm	0.0011 ppm	0.0003 ppm	0.0005 ppm	-0.0021 ppm
Concentration per Run 1	0.1358 ppm	0.0002 ppm	121.6769 ppm	0.0010 ppm	0.0003 ppm	0.0007 ppm	-0.0015 ppm
Concentration per Run 2	0.1324 ppm	0.0002 ppm	118.6259 ppm	0.0009 ppm	-0.0004 ppm	0.0006 ppm	-0.0040 ppm
Concentration per Run 3	0.1324 ppm	0.0002 ppm	118.7652 ppm	0.0014 ppm	0.0009 ppm	0.0002 ppm	-0.0009 ppm
Concentration RSD	1.5 %	11.3 %	1.4 %	21.5 %	221.4 %	55.1 %	76.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1772 ppm	-0.0001 ppm	0.0604 ppm	0.0021 ppm	-0.0010 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	0.1772 ppm	0.0001 ppm	0.0612 ppm	0.0022 ppm	-0.0005 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 2	0.1777 ppm	0.0001 ppm	0.0598 ppm	0.0022 ppm	-0.0014 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 3	0.1768 ppm	-0.0004 ppm	0.0601 ppm	0.0018 ppm	-0.0011 ppm	-0.0001 ppm	0.0013 ppm
Concentration RSD	0.3 %	603.3 %	1.2 %	10.2 %	48.5 %	137.7 %	5.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.9928 %	104.8862 %	105.5697 %	86.5820 %	101.5079 %	106.7150 %
Concentration per Run 1	102.8578 %	105.5102 %	105.8167 %	85.1314 %	101.4479 %	107.0261 %
Concentration per Run 2	104.4809 %	104.7321 %	105.3791 %	86.6719 %	101.2745 %	106.5281 %
Concentration per Run 3	104.6396 %	104.4164 %	105.5134 %	87.9427 %	101.8014 %	106.5909 %
Concentration RSD	0.9 %	0.5 %	0.2 %	1.6 %	0.3 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1936059-3 WG1936059
Analysis started at: 6/19/2024 6:56:19 PM
Comments <Comment>
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0453 ppm	1.8321 ppm	0.1158 ppm	0.8494 ppm	1.8295 ppm	0.0443 ppm	29.2608 ppm
Concentration per Run 1	0.0454 ppm	1.8638 ppm	0.1136 ppm	0.8468 ppm	1.8633 ppm	0.0451 ppm	29.8043 ppm
Concentration per Run 2	0.0452 ppm	1.7954 ppm	0.1173 ppm	0.8501 ppm	1.7964 ppm	0.0436 ppm	28.7265 ppm
Concentration per Run 3	0.0452 ppm	1.8371 ppm	0.1167 ppm	0.8512 ppm	1.8289 ppm	0.0441 ppm	29.2516 ppm
Concentration RSD	0.3 %	1.9 %	1.7 %	0.3 %	1.8 %	1.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0487 ppm	0.4400 ppm	0.1807 ppm	0.2304 ppm	0.8908 ppm	8.8845 ppm	11.2145 ppm
Concentration per Run 1	0.0485 ppm	0.4388 ppm	0.1809 ppm	0.2296 ppm	0.9034 ppm	9.0089 ppm	11.2003 ppm
Concentration per Run 2	0.0489 ppm	0.4410 ppm	0.1804 ppm	0.2309 ppm	0.8779 ppm	8.7384 ppm	11.2132 ppm
Concentration per Run 3	0.0488 ppm	0.4403 ppm	0.1808 ppm	0.2308 ppm	0.8912 ppm	8.9062 ppm	11.2299 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	0.3 %	1.4 %	1.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5566 ppm	0.8725 ppm	123.6984 ppm	0.4468 ppm	0.4902 ppm	0.4657 ppm	0.1117 ppm
Concentration per Run 1	0.5669 ppm	0.8649 ppm	126.1691 ppm	0.4453 ppm	0.4888 ppm	0.4653 ppm	0.1097 ppm
Concentration per Run 2	0.5465 ppm	0.8746 ppm	121.4600 ppm	0.4472 ppm	0.4900 ppm	0.4653 ppm	0.1135 ppm
Concentration per Run 3	0.5562 ppm	0.8782 ppm	123.4661 ppm	0.4478 ppm	0.4918 ppm	0.4664 ppm	0.1119 ppm
Concentration RSD	1.8 %	0.8 %	1.9 %	0.3 %	0.3 %	0.1 %	1.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.3647 ppm	0.8703 ppm	0.8915 ppm	0.8660 ppm	0.1082 ppm	0.4594 ppm	0.4572 ppm
Concentration per Run 1	1.3619 ppm	0.8677 ppm	0.9078 ppm	0.8637 ppm	0.1066 ppm	0.4594 ppm	0.4554 ppm
Concentration per Run 2	1.3658 ppm	0.8715 ppm	0.8754 ppm	0.8678 ppm	0.1081 ppm	0.4596 ppm	0.4585 ppm
Concentration per Run 3	1.3663 ppm	0.8717 ppm	0.8911 ppm	0.8664 ppm	0.1098 ppm	0.4592 ppm	0.4578 ppm
Concentration RSD	0.2 %	0.3 %	1.8 %	0.2 %	1.5 %	0.0 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.3591 %	105.4853 %	106.2372 %	88.4993 %	103.0864 %	108.2181 %
Concentration per Run 1	103.5556 %	105.8475 %	106.3422 %	83.3179 %	103.5306 %	108.4011 %
Concentration per Run 2	106.7580 %	105.5132 %	105.9825 %	90.5268 %	102.8417 %	108.2558 %
Concentration per Run 3	105.7639 %	105.0953 %	106.3868 %	91.6533 %	102.8868 %	107.9974 %
Concentration RSD	1.6 %	0.4 %	0.2 %	5.1 %	0.4 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: WG1936059-4 WG1936059
Analysis started at: 6/19/2024 7:02:26 PM
Comments <Comment>
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0237 ppm	-0.0005 ppm	0.0050 ppm	0.0210 ppm	0.0001 ppm	21.2015 ppm
Concentration per Run 1	-0.0005 ppm	0.0262 ppm	-0.0007 ppm	0.0051 ppm	0.0212 ppm	0.0001 ppm	21.2222 ppm
Concentration per Run 2	-0.0005 ppm	0.0262 ppm	0.0003 ppm	0.0052 ppm	0.0209 ppm	0.0001 ppm	21.2374 ppm
Concentration per Run 3	0.0001 ppm	0.0187 ppm	-0.0012 ppm	0.0047 ppm	0.0209 ppm	0.0001 ppm	21.1450 ppm
Concentration RSD	126.2 %	18.3 %	147.8 %	5.3 %	0.7 %	8.0 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0063 ppm	0.0411 ppm	2.9287 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0074 ppm	0.0367 ppm	2.9279 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0031 ppm	0.0390 ppm	2.9043 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0083 ppm	0.0478 ppm	2.9540 ppm
Concentration RSD	15.7 %	68.5 %	547.0 %	156.1 %	44.3 %	14.2 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1329 ppm	0.0021 ppm	118.5674 ppm	0.0009 ppm	-0.0001 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.1328 ppm	0.0025 ppm	119.1450 ppm	0.0010 ppm	0.0004 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 2	0.1333 ppm	0.0019 ppm	118.4231 ppm	0.0008 ppm	-0.0005 ppm	-0.0005 ppm	-0.0019 ppm
Concentration per Run 3	0.1327 ppm	0.0018 ppm	118.1342 ppm	0.0010 ppm	-0.0001 ppm	0.0008 ppm	-0.0002 ppm
Concentration RSD	0.2 %	19.0 %	0.4 %	14.0 %	677.0 %	265.2 %	110.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1666 ppm	0.0000 ppm	0.0600 ppm	0.0007 ppm	-0.0004 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	0.1649 ppm	0.0001 ppm	0.0598 ppm	0.0006 ppm	0.0017 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.1689 ppm	-0.0001 ppm	0.0600 ppm	0.0009 ppm	-0.0017 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.1661 ppm	0.0001 ppm	0.0603 ppm	0.0006 ppm	-0.0011 ppm	0.0000 ppm	0.0006 ppm
Concentration RSD	1.3 %	535.0 %	0.4 %	20.5 %	520.2 %	233.4 %	9.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.1705 %	105.7813 %	106.0771 %	88.7300 %	102.2420 %	108.0051 %
Concentration per Run 1	102.5667 %	105.7611 %	106.0755 %	88.4934 %	101.8484 %	107.7869 %
Concentration per Run 2	103.5417 %	106.4664 %	105.7910 %	88.9599 %	102.4576 %	108.5084 %
Concentration per Run 3	103.4030 %	105.1165 %	106.3647 %	88.7367 %	102.4200 %	107.7199 %
Concentration RSD	0.5 %	0.6 %	0.3 %	0.3 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2433126-01 WG1936059
Analysis started at: 6/19/2024 7:08:45 PM
Comments <Comment>
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0159 ppm	0.0014 ppm	0.0150 ppm	0.0168 ppm	0.0000 ppm	65.1296 ppm
Concentration per Run 1	-0.0006 ppm	0.0129 ppm	0.0010 ppm	0.0144 ppm	0.0172 ppm	0.0000 ppm	66.6052 ppm
Concentration per Run 2	0.0001 ppm	0.0198 ppm	0.0007 ppm	0.0156 ppm	0.0167 ppm	0.0001 ppm	64.6078 ppm
Concentration per Run 3	-0.0001 ppm	0.0149 ppm	0.0026 ppm	0.0151 ppm	0.0163 ppm	0.0000 ppm	64.1758 ppm
Concentration RSD	197.7 %	22.2 %	72.9 %	3.9 %	2.6 %	921.8 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0054 ppm	0.0003 ppm	0.0042 ppm	0.6508 ppm	0.8804 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0051 ppm	0.0000 ppm	0.0034 ppm	0.6726 ppm	0.8855 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0056 ppm	0.0002 ppm	0.0040 ppm	0.6736 ppm	0.8775 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0055 ppm	0.0006 ppm	0.0050 ppm	0.6061 ppm	0.8783 ppm
Concentration RSD	93.8 %	20.7 %	4.7 %	106.8 %	19.4 %	5.9 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0034 ppm	119.4227 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.0012 ppm	0.0033 ppm	122.1660 ppm	0.0005 ppm	-0.0003 ppm	-0.0006 ppm	-0.0026 ppm
Concentration per Run 2	0.0008 ppm	0.0032 ppm	118.5870 ppm	0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0013 ppm	0.0035 ppm	117.5150 ppm	0.0007 ppm	0.0002 ppm	0.0011 ppm	0.0004 ppm
Concentration RSD	22.5 %	3.7 %	2.0 %	27.8 %	908.6 %	1,408.3 %	397.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.6074 ppm	-0.0003 ppm	0.3156 ppm	0.0010 ppm	-0.0008 ppm	0.0019 ppm	-0.0004 ppm
Concentration per Run 1	2.5812 ppm	-0.0003 ppm	0.3225 ppm	0.0008 ppm	-0.0011 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 2	2.6292 ppm	-0.0005 ppm	0.3132 ppm	0.0014 ppm	-0.0010 ppm	0.0019 ppm	-0.0004 ppm
Concentration per Run 3	2.6119 ppm	-0.0001 ppm	0.3110 ppm	0.0009 ppm	-0.0004 ppm	0.0019 ppm	-0.0003 ppm
Concentration RSD	0.9 %	78.2 %	1.9 %	31.3 %	47.5 %	5.5 %	10.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.7923 %	105.1043 %	105.1527 %	88.4048 %	101.7790 %	108.1174 %
Concentration per Run 1	101.4529 %	104.6728 %	105.3252 %	86.3042 %	102.5181 %	107.4670 %
Concentration per Run 2	104.3829 %	105.2841 %	105.1842 %	88.5109 %	101.3498 %	108.3270 %
Concentration per Run 3	105.5412 %	105.3561 %	104.9486 %	90.3993 %	101.4693 %	108.5582 %
Concentration RSD	2.0 %	0.4 %	0.2 %	2.3 %	0.6 %	0.5 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 7:15:03 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4657 ppm	0.4692 ppm	0.4495 ppm	0.4551 ppm	0.4607 ppm	0.4481 ppm	0.4593 ppm
Concentration per Run 1	0.4655 ppm	0.4654 ppm	0.4499 ppm	0.4544 ppm	0.4512 ppm	0.4388 ppm	0.4458 ppm
Concentration per Run 2	0.4651 ppm	0.4638 ppm	0.4480 ppm	0.4541 ppm	0.4653 ppm	0.4522 ppm	0.4627 ppm
Concentration per Run 3	0.4665 ppm	0.4783 ppm	0.4505 ppm	0.4568 ppm	0.4658 ppm	0.4533 ppm	0.4695 ppm
Recovery Percentage 1	93.143 %	93.835 %	89.896 %	91.020 %	92.149 %	89.618 %	91.865 %
Concentration RSD	0.2 %	1.7 %	0.3 %	0.3 %	1.8 %	1.8 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4533 ppm	0.4604 ppm	0.4647 ppm	0.4607 ppm	0.4562 ppm	4.7566 ppm	0.4573 ppm
Concentration per Run 1	0.4529 ppm	0.4602 ppm	0.4640 ppm	0.4610 ppm	0.4486 ppm	4.6721 ppm	0.4580 ppm
Concentration per Run 2	0.4528 ppm	0.4596 ppm	0.4646 ppm	0.4599 ppm	0.4562 ppm	4.7683 ppm	0.4577 ppm
Concentration per Run 3	0.4541 ppm	0.4614 ppm	0.4655 ppm	0.4613 ppm	0.4637 ppm	4.8295 ppm	0.4563 ppm
Recovery Percentage 1	90.659 %	92.087 %	92.943 %	92.145 %	91.238 %	95.133 %	91.466 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	1.7 %	1.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4375 ppm	0.4520 ppm	9.2343 ppm	0.4651 ppm	0.4641 ppm	0.4626 ppm	0.4648 ppm
Concentration per Run 1	0.4280 ppm	0.4500 ppm	9.0821 ppm	0.4647 ppm	0.4635 ppm	0.4604 ppm	0.4634 ppm
Concentration per Run 2	0.4419 ppm	0.4517 ppm	9.3139 ppm	0.4641 ppm	0.4644 ppm	0.4634 ppm	0.4643 ppm
Concentration per Run 3	0.4425 ppm	0.4544 ppm	9.3071 ppm	0.4665 ppm	0.4644 ppm	0.4640 ppm	0.4668 ppm
Recovery Percentage 1	87.495 %	90.399 %	92.343 %	93.028 %	92.816 %	92.523 %	92.967 %
Concentration RSD	1.9 %	0.5 %	1.4 %	0.3 %	0.1 %	0.4 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8718 ppm	0.4665 ppm	0.4531 ppm	0.4546 ppm	0.4593 ppm	0.4626 ppm	0.4658 ppm
Concentration per Run 1	4.8676 ppm	0.4664 ppm	0.4440 ppm	0.4545 ppm	0.4603 ppm	0.4625 ppm	0.4655 ppm
Concentration per Run 2	4.8671 ppm	0.4660 ppm	0.4576 ppm	0.4540 ppm	0.4569 ppm	0.4618 ppm	0.4653 ppm
Concentration per Run 3	4.8808 ppm	0.4670 ppm	0.4577 ppm	0.4551 ppm	0.4607 ppm	0.4637 ppm	0.4667 ppm
Recovery Percentage 1	92.797 %	93.295 %	90.614 %	90.910 %	91.864 %	92.529 %	93.168 %
Concentration RSD	0.2 %	0.1 %	1.7 %	0.1 %	0.5 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.2652 %	109.3988 %	109.8350 %	93.4884 %	108.3761 %	111.5117 %
Concentration per Run 1	109.9241 %	109.3951 %	110.1271 %	94.2104 %	108.6073 %	111.5032 %
Concentration per Run 2	107.8830 %	109.4270 %	109.9481 %	93.5481 %	108.4139 %	111.6545 %
Concentration per Run 3	106.9884 %	109.3742 %	109.4299 %	92.7067 %	108.1072 %	111.3773 %
Recovery Percentage 1						
Concentration RSD	1.4 %	0.0 %	0.3 %	0.8 %	0.2 %	0.1 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 7:21:08 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0025 ppm	-0.0003 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0309 ppm
Concentration per Run 1	-0.0005 ppm	0.0092 ppm	-0.0009 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0289 ppm
Concentration per Run 2	0.0003 ppm	0.0016 ppm	0.0005 ppm	0.0011 ppm	-0.0002 ppm	0.0001 ppm	0.0225 ppm
Concentration per Run 3	0.0009 ppm	-0.0033 ppm	-0.0004 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0414 ppm
Recovery Percentage 1	3.125 %	2.498 %	-5.637 %	2.829 %	0.278 %	1.958 %	30.937 %
Concentration RSD	324.9 %	252.1 %	243.1 %	24.3 %	808.9 %	50.0 %	31.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0798 ppm	0.0036 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0016 ppm	-0.0970 ppm	0.0056 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0006 ppm	-0.0869 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	-0.0555 ppm	0.0029 ppm
Recovery Percentage 1	0.370 %	0.111 %	-1.499 %	-0.373 %	1.310 %	-3.192 %	3.600 %
Concentration RSD	289.5 %	259.5 %	151.5 %	230.4 %	143.8 %	27.1 %	49.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0013 ppm	-0.0380 ppm	0.0002 ppm	0.0001 ppm	0.0008 ppm	-0.0023 ppm
Concentration per Run 1	-0.0001 ppm	0.0016 ppm	-0.0428 ppm	0.0001 ppm	0.0008 ppm	-0.0006 ppm	-0.0025 ppm
Concentration per Run 2	0.0001 ppm	0.0011 ppm	-0.0394 ppm	0.0004 ppm	-0.0003 ppm	0.0005 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0013 ppm	-0.0318 ppm	-0.0001 ppm	-0.0001 ppm	0.0025 ppm	-0.0019 ppm
Recovery Percentage 1	0.144 %	2.671 %	-1.901 %	0.603 %	1.093 %	1.629 %	-22.560 %
Concentration RSD	868.0 %	18.0 %	14.8 %	148.5 %	529.2 %	193.4 %	15.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0005 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0010 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0009 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0012 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0010 ppm	-0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	0.105 %	-0.751 %	2.098 %	2.366 %	5.225 %	-0.350 %	-4.630 %
Concentration RSD	94.5 %	100.8 %	30.4 %	175.4 %	9.7 %	758.9 %	26.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.6346 %	109.0719 %	109.6611 %	83.0825 %	105.2130 %	106.5937 %
Concentration per Run 1	109.8520 %	109.4126 %	109.5906 %	81.9286 %	104.9611 %	106.7119 %
Concentration per Run 2	106.6709 %	109.1411 %	109.6439 %	83.1052 %	105.1724 %	106.5569 %
Concentration per Run 3	106.3809 %	108.6619 %	109.7487 %	84.2135 %	105.5056 %	106.5122 %
Recovery Percentage 1						
Concentration RSD	1.8 %	0.3 %	0.1 %	1.4 %	0.3 %	0.1 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 7:28:58 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4668 ppm	0.4733 ppm	0.4507 ppm	0.4562 ppm	0.4615 ppm	0.4483 ppm	0.4582 ppm
Concentration per Run 1	0.4674 ppm	0.4628 ppm	0.4507 ppm	0.4558 ppm	0.4520 ppm	0.4394 ppm	0.4450 ppm
Concentration per Run 2	0.4659 ppm	0.4718 ppm	0.4486 ppm	0.4566 ppm	0.4659 ppm	0.4534 ppm	0.4700 ppm
Concentration per Run 3	0.4671 ppm	0.4852 ppm	0.4527 ppm	0.4562 ppm	0.4667 ppm	0.4522 ppm	0.4596 ppm
Recovery Percentage 1	93.360 %	94.653 %	90.131 %	91.243 %	92.300 %	89.663 %	91.636 %
Concentration RSD	0.2 %	2.4 %	0.5 %	0.1 %	1.8 %	1.7 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4536 ppm	0.4610 ppm	0.4650 ppm	0.4615 ppm	0.4572 ppm	4.7112 ppm	0.4599 ppm
Concentration per Run 1	0.4533 ppm	0.4610 ppm	0.4643 ppm	0.4612 ppm	0.4460 ppm	4.6055 ppm	0.4629 ppm
Concentration per Run 2	0.4534 ppm	0.4609 ppm	0.4649 ppm	0.4615 ppm	0.4629 ppm	4.7378 ppm	0.4587 ppm
Concentration per Run 3	0.4541 ppm	0.4612 ppm	0.4657 ppm	0.4618 ppm	0.4627 ppm	4.7904 ppm	0.4581 ppm
Recovery Percentage 1	90.715 %	92.208 %	92.995 %	92.296 %	91.436 %	94.225 %	91.972 %
Concentration RSD	0.1 %	0.0 %	0.1 %	0.1 %	2.1 %	2.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4387 ppm	0.4514 ppm	9.2109 ppm	0.4661 ppm	0.4647 ppm	0.4649 ppm	0.4657 ppm
Concentration per Run 1	0.4288 ppm	0.4490 ppm	9.0244 ppm	0.4657 ppm	0.4649 ppm	0.4637 ppm	0.4661 ppm
Concentration per Run 2	0.4429 ppm	0.4516 ppm	9.3022 ppm	0.4666 ppm	0.4628 ppm	0.4652 ppm	0.4657 ppm
Concentration per Run 3	0.4443 ppm	0.4537 ppm	9.3060 ppm	0.4661 ppm	0.4665 ppm	0.4657 ppm	0.4654 ppm
Recovery Percentage 1	87.734 %	90.288 %	92.109 %	93.221 %	92.946 %	92.972 %	93.148 %
Concentration RSD	2.0 %	0.5 %	1.8 %	0.1 %	0.4 %	0.2 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8836 ppm	0.4665 ppm	0.4533 ppm	0.4554 ppm	0.4601 ppm	0.4640 ppm	0.4661 ppm
Concentration per Run 1	4.8839 ppm	0.4654 ppm	0.4440 ppm	0.4547 ppm	0.4609 ppm	0.4638 ppm	0.4660 ppm
Concentration per Run 2	4.8833 ppm	0.4668 ppm	0.4578 ppm	0.4544 ppm	0.4595 ppm	0.4637 ppm	0.4660 ppm
Concentration per Run 3	4.8836 ppm	0.4674 ppm	0.4580 ppm	0.4571 ppm	0.4599 ppm	0.4645 ppm	0.4664 ppm
Recovery Percentage 1	93.021 %	93.304 %	90.652 %	91.083 %	92.023 %	92.795 %	93.222 %
Concentration RSD	0.0 %	0.2 %	1.8 %	0.3 %	0.2 %	0.1 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.5260 %	109.7855 %	110.2872 %	92.6452 %	108.7070 %	111.8892 %
Concentration per Run 1	111.0400 %	109.9761 %	110.6959 %	93.9561 %	108.9736 %	111.8843 %
Concentration per Run 2	107.3027 %	109.8065 %	110.1148 %	91.9342 %	108.6902 %	111.9662 %
Concentration per Run 3	107.2353 %	109.5738 %	110.0508 %	92.0453 %	108.4571 %	111.8170 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.2 %	0.3 %	1.2 %	0.2 %	0.1 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 7:35:26 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0024 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0147 ppm
Concentration per Run 1	-0.0004 ppm	0.0097 ppm	-0.0015 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0184 ppm
Concentration per Run 2	-0.0001 ppm	-0.0123 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm	-0.0001 ppm	0.0113 ppm
Concentration per Run 3	-0.0003 ppm	0.0097 ppm	0.0014 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0143 ppm
Recovery Percentage 1	-3.622 %	2.363 %	1.104 %	3.158 %	-0.203 %	0.228 %	14.667 %
Concentration RSD	67.5 %	537.6 %	2,646.9 %	51.3 %	919.4 %	760.4 %	24.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0046 ppm	-0.0619 ppm	0.0029 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	-0.0005 ppm	0.0015 ppm	-0.0108 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0042 ppm	-0.0691 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0004 ppm	0.0080 ppm	-0.1058 ppm	0.0018 ppm
Recovery Percentage 1	-0.493 %	-0.069 %	-2.474 %	-2.221 %	9.138 %	-2.475 %	2.879 %
Concentration RSD	120.2 %	1,559.2 %	93.2 %	189.1 %	71.6 %	77.5 %	41.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0013 ppm	-0.0402 ppm	0.0005 ppm	0.0006 ppm	0.0008 ppm	-0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0015 ppm	-0.0438 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	-0.0425 ppm	0.0003 ppm	0.0011 ppm	0.0017 ppm	-0.0029 ppm
Concentration per Run 3	0.0005 ppm	0.0012 ppm	-0.0343 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	-0.0022 ppm
Recovery Percentage 1	1.573 %	2.540 %	-2.010 %	1.855 %	5.788 %	1.682 %	-18.526 %
Concentration RSD	168.5 %	15.5 %	12.8 %	30.2 %	75.6 %	98.6 %	68.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0025 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 1	0.0029 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0012 ppm	0.0005 ppm	-0.0004 ppm
Concentration per Run 2	0.0022 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.0023 ppm	-0.0005 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm
Recovery Percentage 1	0.494 %	-1.221 %	0.708 %	0.655 %	3.902 %	1.534 %	-7.989 %
Concentration RSD	16.7 %	36.7 %	211.0 %	373.9 %	102.6 %	195.7 %	10.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.3206 %	110.1128 %	110.4899 %	86.8029 %	106.1426 %	107.6723 %
Concentration per Run 1	107.1043 %	110.1549 %	110.5910 %	85.0054 %	105.7714 %	107.8313 %
Concentration per Run 2	107.3352 %	110.1664 %	110.3881 %	87.4616 %	106.1999 %	107.8825 %
Concentration per Run 3	107.5223 %	110.0171 %	110.4906 %	87.9416 %	106.4565 %	107.3030 %
Recovery Percentage 1						
Concentration RSD	0.2 %	0.1 %	0.1 %	1.8 %	0.3 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: L2432987-01d2 WG1935403
Analysis started at: 6/19/2024 7:53:52 PM
Comments <Comment>
Rack: 2
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	37.5401 ppm	0.0159 ppm	0.0150 ppm	0.1848 ppm	0.0023 ppm	5.5728 ppm
Concentration per Run 1	0.0003 ppm	37.8624 ppm	0.0149 ppm	0.0151 ppm	0.1867 ppm	0.0024 ppm	5.6289 ppm
Concentration per Run 2	0.0001 ppm	37.3657 ppm	0.0152 ppm	0.0147 ppm	0.1837 ppm	0.0022 ppm	5.5271 ppm
Concentration per Run 3	-0.0002 ppm	37.3921 ppm	0.0177 ppm	0.0153 ppm	0.1842 ppm	0.0023 ppm	5.5624 ppm
Concentration RSD	391.8 %	0.7 %	9.4 %	2.3 %	0.9 %	3.7 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0022 ppm	0.0358 ppm	0.0669 ppm	0.0581 ppm	85.4338 ppm	3.7856 ppm	10.4595 ppm
Concentration per Run 1	0.0022 ppm	0.0359 ppm	0.0675 ppm	0.0582 ppm	86.2001 ppm	3.8334 ppm	10.4412 ppm
Concentration per Run 2	0.0022 ppm	0.0357 ppm	0.0667 ppm	0.0580 ppm	84.9189 ppm	3.7584 ppm	10.4444 ppm
Concentration per Run 3	0.0022 ppm	0.0359 ppm	0.0667 ppm	0.0579 ppm	85.1824 ppm	3.7649 ppm	10.4928 ppm
Concentration RSD	0.8 %	0.2 %	0.7 %	0.3 %	0.8 %	1.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.5281 ppm	0.0009 ppm	1.2014 ppm	0.0397 ppm	0.0632 ppm	0.0042 ppm	-0.0018 ppm
Concentration per Run 1	2.5498 ppm	0.0010 ppm	1.1978 ppm	0.0397 ppm	0.0632 ppm	0.0043 ppm	-0.0008 ppm
Concentration per Run 2	2.5144 ppm	0.0009 ppm	1.1924 ppm	0.0399 ppm	0.0641 ppm	0.0042 ppm	-0.0007 ppm
Concentration per Run 3	2.5201 ppm	0.0009 ppm	1.2140 ppm	0.0396 ppm	0.0622 ppm	0.0043 ppm	-0.0038 ppm
Concentration RSD	0.8 %	7.3 %	0.9 %	0.3 %	1.5 %	2.0 %	100.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4798 ppm	0.0027 ppm	0.0280 ppm	2.8174 ppm	0.0031 ppm	0.2428 ppm	0.1306 ppm
Concentration per Run 1	3.4805 ppm	0.0023 ppm	0.0281 ppm	2.8142 ppm	0.0041 ppm	0.2426 ppm	0.1309 ppm
Concentration per Run 2	3.4835 ppm	0.0031 ppm	0.0278 ppm	2.8128 ppm	0.0020 ppm	0.2424 ppm	0.1306 ppm
Concentration per Run 3	3.4754 ppm	0.0027 ppm	0.0281 ppm	2.8252 ppm	0.0031 ppm	0.2433 ppm	0.1302 ppm
Concentration RSD	0.1 %	14.8 %	0.7 %	0.2 %	34.9 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	131.8096 %	137.6340 %	138.0867 %	98.2556 %	113.8140 %	118.1313 %
Concentration per Run 1	130.8725 %	137.9604 %	138.0096 %	97.2477 %	113.6350 %	118.4437 %
Concentration per Run 2	132.5031 %	137.4873 %	138.1048 %	98.5891 %	113.8474 %	117.9542 %
Concentration per Run 3	132.0530 %	137.4542 %	138.1458 %	98.9300 %	113.9597 %	117.9961 %
Concentration RSD	0.6 %	0.2 %	0.1 %	0.9 %	0.1 %	0.2 %

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Sample: L2432987-03d2 WG1935403
Analysis started at: 6/19/2024 8:00:05 PM
Comments <Comment>
Rack: 2
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	38.9885 ppm	0.0119 ppm	0.0142 ppm	0.0986 ppm	0.0021 ppm	4.4292 ppm
Concentration per Run 1	-0.0001 ppm	39.1279 ppm	0.0127 ppm	0.0142 ppm	0.0990 ppm	0.0021 ppm	4.4408 ppm
Concentration per Run 2	-0.0001 ppm	39.0082 ppm	0.0115 ppm	0.0144 ppm	0.0983 ppm	0.0021 ppm	4.4206 ppm
Concentration per Run 3	0.0003 ppm	38.8293 ppm	0.0114 ppm	0.0141 ppm	0.0984 ppm	0.0021 ppm	4.4262 ppm
Concentration RSD	566.6 %	0.4 %	6.3 %	1.3 %	0.4 %	1.3 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0017 ppm	0.0269 ppm	0.0508 ppm	0.0596 ppm	68.5829 ppm	4.6738 ppm	10.1842 ppm
Concentration per Run 1	0.0017 ppm	0.0268 ppm	0.0509 ppm	0.0598 ppm	68.7989 ppm	4.6963 ppm	10.2131 ppm
Concentration per Run 2	0.0017 ppm	0.0273 ppm	0.0503 ppm	0.0598 ppm	68.5349 ppm	4.6714 ppm	10.1917 ppm
Concentration per Run 3	0.0017 ppm	0.0267 ppm	0.0511 ppm	0.0593 ppm	68.4149 ppm	4.6538 ppm	10.1478 ppm
Concentration RSD	0.3 %	1.0 %	0.9 %	0.4 %	0.3 %	0.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.2149 ppm	0.0014 ppm	1.1328 ppm	0.0355 ppm	0.0557 ppm	0.0031 ppm	-0.0021 ppm
Concentration per Run 1	2.2225 ppm	0.0016 ppm	1.1416 ppm	0.0353 ppm	0.0561 ppm	0.0033 ppm	-0.0012 ppm
Concentration per Run 2	2.2129 ppm	0.0013 ppm	1.1277 ppm	0.0359 ppm	0.0560 ppm	0.0031 ppm	-0.0033 ppm
Concentration per Run 3	2.2092 ppm	0.0012 ppm	1.1291 ppm	0.0353 ppm	0.0550 ppm	0.0030 ppm	-0.0016 ppm
Concentration RSD	0.3 %	13.4 %	0.7 %	0.9 %	1.1 %	5.1 %	54.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0382 ppm	0.0028 ppm	0.0132 ppm	2.2945 ppm	0.0030 ppm	0.1832 ppm	0.1252 ppm
Concentration per Run 1	4.0379 ppm	0.0026 ppm	0.0133 ppm	2.3007 ppm	0.0041 ppm	0.1839 ppm	0.1253 ppm
Concentration per Run 2	4.0436 ppm	0.0027 ppm	0.0132 ppm	2.2950 ppm	0.0025 ppm	0.1831 ppm	0.1254 ppm
Concentration per Run 3	4.0333 ppm	0.0031 ppm	0.0132 ppm	2.2878 ppm	0.0026 ppm	0.1826 ppm	0.1249 ppm
Concentration RSD	0.1 %	9.2 %	0.5 %	0.3 %	29.6 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	128.1476 %	131.5770 %	131.7770 %	96.0507 %	112.6119 %	116.7777 %
Concentration per Run 1	127.7045 %	131.3011 %	131.8577 %	94.5441 %	112.7167 %	116.7363 %
Concentration per Run 2	127.8063 %	131.2100 %	131.6909 %	96.0577 %	112.3521 %	116.2942 %
Concentration per Run 3	128.9319 %	132.2198 %	131.7823 %	97.5504 %	112.7670 %	117.3026 %
Concentration RSD	0.5 %	0.4 %	0.1 %	1.6 %	0.2 %	0.4 %

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Sample: L2432987-04d2 WG1935403
Analysis started at: 6/19/2024 8:06:23 PM
Comments <Comment>
Rack: 2
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	17.2560 ppm	0.0078 ppm	0.0090 ppm	0.1224 ppm	0.0013 ppm	8.5612 ppm
Concentration per Run 1	0.0003 ppm	17.3835 ppm	0.0076 ppm	0.0090 ppm	0.1230 ppm	0.0013 ppm	8.6348 ppm
Concentration per Run 2	-0.0005 ppm	17.2616 ppm	0.0073 ppm	0.0088 ppm	0.1228 ppm	0.0013 ppm	8.5572 ppm
Concentration per Run 3	-0.0005 ppm	17.1228 ppm	0.0084 ppm	0.0093 ppm	0.1215 ppm	0.0013 ppm	8.4917 ppm
Concentration RSD	222.8 %	0.8 %	6.9 %	2.3 %	0.7 %	2.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0010 ppm	0.0170 ppm	0.0435 ppm	0.0376 ppm	45.5680 ppm	2.7939 ppm	6.7434 ppm
Concentration per Run 1	0.0010 ppm	0.0169 ppm	0.0433 ppm	0.0377 ppm	45.8914 ppm	2.7826 ppm	6.7582 ppm
Concentration per Run 2	0.0010 ppm	0.0173 ppm	0.0442 ppm	0.0376 ppm	45.6372 ppm	2.7979 ppm	6.7417 ppm
Concentration per Run 3	0.0011 ppm	0.0169 ppm	0.0431 ppm	0.0375 ppm	45.1753 ppm	2.8011 ppm	6.7302 ppm
Concentration RSD	3.1 %	1.2 %	1.3 %	0.2 %	0.8 %	0.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0606 ppm	0.0007 ppm	0.9125 ppm	0.0196 ppm	0.0356 ppm	0.0023 ppm	-0.0009 ppm
Concentration per Run 1	1.0698 ppm	0.0006 ppm	0.9222 ppm	0.0195 ppm	0.0353 ppm	0.0022 ppm	-0.0002 ppm
Concentration per Run 2	1.0620 ppm	0.0007 ppm	0.9198 ppm	0.0199 ppm	0.0360 ppm	0.0031 ppm	0.0003 ppm
Concentration per Run 3	1.0501 ppm	0.0008 ppm	0.8956 ppm	0.0195 ppm	0.0354 ppm	0.0017 ppm	-0.0028 ppm
Concentration RSD	0.9 %	15.0 %	1.6 %	1.1 %	1.0 %	31.1 %	181.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.3311 ppm	0.0015 ppm	0.0194 ppm	1.2503 ppm	0.0020 ppm	0.1267 ppm	0.0668 ppm
Concentration per Run 1	3.3324 ppm	0.0011 ppm	0.0194 ppm	1.2515 ppm	0.0015 ppm	0.1270 ppm	0.0669 ppm
Concentration per Run 2	3.3285 ppm	0.0012 ppm	0.0195 ppm	1.2492 ppm	0.0028 ppm	0.1266 ppm	0.0668 ppm
Concentration per Run 3	3.3325 ppm	0.0021 ppm	0.0193 ppm	1.2503 ppm	0.0017 ppm	0.1264 ppm	0.0667 ppm
Concentration RSD	0.1 %	36.5 %	0.6 %	0.1 %	35.8 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	122.0278 %	126.9596 %	127.4827 %	92.9084 %	109.9620 %	112.6292 %
Concentration per Run 1	121.4781 %	126.5017 %	127.6477 %	91.9741 %	109.7940 %	112.3620 %
Concentration per Run 2	121.5373 %	126.8636 %	127.4168 %	92.9321 %	109.9988 %	112.2271 %
Concentration per Run 3	123.0679 %	127.5133 %	127.3835 %	93.8191 %	110.0932 %	113.2984 %
Concentration RSD	0.7 %	0.4 %	0.1 %	1.0 %	0.1 %	0.5 %

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Sample: L2432987-05d2 WG1935403
Analysis started at: 6/19/2024 8:13:25 PM
Comments <Comment>
Rack: 2
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	40.8095 ppm	0.0130 ppm	0.0159 ppm	0.1754 ppm	0.0025 ppm	5.4303 ppm
Concentration per Run 1	-0.0006 ppm	39.7158 ppm	0.0130 ppm	0.0163 ppm	0.1708 ppm	0.0024 ppm	5.2730 ppm
Concentration per Run 2	-0.0004 ppm	41.2024 ppm	0.0132 ppm	0.0160 ppm	0.1770 ppm	0.0027 ppm	5.4823 ppm
Concentration per Run 3	-0.0002 ppm	41.5102 ppm	0.0126 ppm	0.0154 ppm	0.1782 ppm	0.0025 ppm	5.5356 ppm
Concentration RSD	56.0 %	2.4 %	2.3 %	2.9 %	2.3 %	5.5 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0018 ppm	0.0283 ppm	0.0523 ppm	0.0625 ppm	73.8869 ppm	5.1479 ppm	11.0031 ppm
Concentration per Run 1	0.0018 ppm	0.0285 ppm	0.0520 ppm	0.0618 ppm	71.9823 ppm	5.0136 ppm	10.9849 ppm
Concentration per Run 2	0.0018 ppm	0.0284 ppm	0.0528 ppm	0.0631 ppm	74.3654 ppm	5.1908 ppm	11.0410 ppm
Concentration per Run 3	0.0018 ppm	0.0281 ppm	0.0522 ppm	0.0627 ppm	75.3130 ppm	5.2393 ppm	10.9834 ppm
Concentration RSD	0.5 %	0.7 %	0.8 %	1.0 %	2.3 %	2.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.2730 ppm	0.0011 ppm	1.0643 ppm	0.0366 ppm	0.0585 ppm	0.0045 ppm	-0.0022 ppm
Concentration per Run 1	2.2146 ppm	0.0011 ppm	1.0359 ppm	0.0364 ppm	0.0589 ppm	0.0054 ppm	-0.0027 ppm
Concentration per Run 2	2.2912 ppm	0.0011 ppm	1.0682 ppm	0.0365 ppm	0.0585 ppm	0.0043 ppm	-0.0017 ppm
Concentration per Run 3	2.3133 ppm	0.0011 ppm	1.0889 ppm	0.0368 ppm	0.0580 ppm	0.0040 ppm	-0.0023 ppm
Concentration RSD	2.3 %	2.5 %	2.5 %	0.4 %	0.8 %	15.7 %	23.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3417 ppm	0.0026 ppm	0.0172 ppm	2.5291 ppm	0.0025 ppm	0.1955 ppm	0.1292 ppm
Concentration per Run 1	5.3328 ppm	0.0024 ppm	0.0165 ppm	2.5226 ppm	0.0038 ppm	0.1958 ppm	0.1294 ppm
Concentration per Run 2	5.3428 ppm	0.0025 ppm	0.0175 ppm	2.5387 ppm	0.0009 ppm	0.1959 ppm	0.1291 ppm
Concentration per Run 3	5.3494 ppm	0.0030 ppm	0.0175 ppm	2.5259 ppm	0.0030 ppm	0.1948 ppm	0.1290 ppm
Concentration RSD	0.2 %	13.2 %	3.2 %	0.3 %	58.6 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	126.0900 %	127.4588 %	128.1323 %	100.4276 %	112.3072 %	115.9556 %
Concentration per Run 1	129.3368 %	127.4209 %	128.1000 %	102.5044 %	112.2966 %	115.9601 %
Concentration per Run 2	125.2499 %	127.1125 %	128.1438 %	100.2451 %	112.2037 %	115.8119 %
Concentration per Run 3	123.6832 %	127.8430 %	128.1532 %	98.5332 %	112.4214 %	116.0947 %
Concentration RSD	2.3 %	0.3 %	0.0 %	2.0 %	0.1 %	0.1 %

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Sample: I2432197-01 WG1936030
Analysis started at: 6/19/2024 8:20:49 PM
Comments <Comment>
Rack: 2
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0387 ppm	0.0000 ppm	0.0064 ppm	0.0577 ppm	0.0000 ppm	1.0603 ppm
Concentration per Run 1	0.0002 ppm	0.0375 ppm	0.0007 ppm	0.0063 ppm	0.0571 ppm	0.0000 ppm	1.0502 ppm
Concentration per Run 2	-0.0003 ppm	0.0268 ppm	-0.0005 ppm	0.0065 ppm	0.0577 ppm	0.0001 ppm	1.0545 ppm
Concentration per Run 3	0.0005 ppm	0.0518 ppm	-0.0002 ppm	0.0065 ppm	0.0582 ppm	0.0001 ppm	1.0763 ppm
Concentration RSD	278.1 %	32.3 %	4,629.7 %	2.4 %	1.0 %	197.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0273 ppm	0.0426 ppm	0.1640 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0288 ppm	0.0007 ppm	0.1598 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0275 ppm	0.0429 ppm	0.1637 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0256 ppm	0.0842 ppm	0.1684 ppm
Concentration RSD	53.1 %	63.5 %	166.7 %	91.3 %	5.8 %	98.0 %	2.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0027 ppm	0.0002 ppm	114.8866 ppm	0.0005 ppm	0.0013 ppm	-0.0004 ppm	-0.0009 ppm
Concentration per Run 1	0.0029 ppm	0.0003 ppm	113.9473 ppm	0.0005 ppm	0.0018 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 2	0.0026 ppm	0.0002 ppm	114.6940 ppm	0.0004 ppm	0.0011 ppm	-0.0009 ppm	-0.0008 ppm
Concentration per Run 3	0.0025 ppm	0.0002 ppm	116.0183 ppm	0.0006 ppm	0.0010 ppm	-0.0004 ppm	-0.0009 ppm
Concentration RSD	6.4 %	36.0 %	0.9 %	15.9 %	34.2 %	112.2 %	5.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0851 ppm	-0.0002 ppm	0.0060 ppm	0.0012 ppm	-0.0014 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 1	0.0855 ppm	-0.0007 ppm	0.0059 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	0.0850 ppm	0.0003 ppm	0.0060 ppm	0.0014 ppm	-0.0016 ppm	-0.0002 ppm	0.0030 ppm
Concentration per Run 3	0.0848 ppm	-0.0001 ppm	0.0061 ppm	0.0014 ppm	-0.0027 ppm	0.0002 ppm	0.0030 ppm
Concentration RSD	0.4 %	290.6 %	1.6 %	29.6 %	91.7 %	1,494.4 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.7705 %	107.5892 %	108.6433 %	91.2095 %	103.1338 %	107.5375 %
Concentration per Run 1	107.7276 %	108.3416 %	108.4425 %	90.8240 %	103.2917 %	108.3606 %
Concentration per Run 2	107.0037 %	108.4744 %	108.7085 %	91.3840 %	102.9212 %	107.9015 %
Concentration per Run 3	105.5803 %	105.9517 %	108.7788 %	91.4205 %	103.1885 %	106.3505 %
Concentration RSD	1.0 %	1.3 %	0.2 %	0.4 %	0.2 %	1.0 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-01 WG1935502
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Rack: 2
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0236 ppm	-0.0006 ppm	0.0026 ppm	0.0192 ppm	0.0000 ppm	6.1895 ppm
Concentration per Run 1	0.0002 ppm	0.0265 ppm	-0.0025 ppm	0.0028 ppm	0.0189 ppm	-0.0001 ppm	6.1786 ppm
Concentration per Run 2	0.0002 ppm	0.0182 ppm	0.0000 ppm	0.0025 ppm	0.0191 ppm	0.0001 ppm	6.1465 ppm
Concentration per Run 3	0.0000 ppm	0.0260 ppm	0.0006 ppm	0.0025 ppm	0.0198 ppm	0.0000 ppm	6.2433 ppm
Concentration RSD	111.3 %	19.8 %	261.4 %	8.4 %	2.3 %	507.2 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0128 ppm	0.5044 ppm	1.7619 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0125 ppm	0.4773 ppm	1.7471 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0142 ppm	0.5347 ppm	1.7676 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0116 ppm	0.5013 ppm	1.7709 ppm
Concentration RSD	281.7 %	27.0 %	249.7 %	1,041.5 %	10.1 %	5.7 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0000 ppm	5.8487 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm	-0.0026 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	5.8393 ppm	0.0003 ppm	0.0001 ppm	-0.0008 ppm	-0.0029 ppm
Concentration per Run 2	0.0005 ppm	-0.0002 ppm	5.8085 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 3	0.0009 ppm	-0.0001 ppm	5.8983 ppm	0.0003 ppm	0.0002 ppm	-0.0002 ppm	-0.0026 ppm
Concentration RSD	28.9 %	1,122.2 %	0.8 %	40.0 %	81.1 %	134.0 %	11.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5323 ppm	-0.0019 ppm	0.0149 ppm	0.0002 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	2.4979 ppm	-0.0023 ppm	0.0145 ppm	0.0005 ppm	0.0018 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	2.5362 ppm	-0.0014 ppm	0.0149 ppm	0.0000 ppm	0.0006 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	2.5627 ppm	-0.0021 ppm	0.0152 ppm	0.0002 ppm	0.0018 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	1.3 %	25.0 %	2.3 %	106.2 %	47.5 %	81.4 %	34.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.2020 %	113.9387 %	114.3220 %	82.7641 %	109.0557 %	110.4834 %
Concentration per Run 1	109.7882 %	114.7586 %	116.1643 %	81.5453 %	110.5745 %	110.2019 %
Concentration per Run 2	109.4691 %	113.5661 %	113.8097 %	83.0734 %	109.0539 %	110.8198 %
Concentration per Run 3	108.3485 %	113.4913 %	112.9921 %	83.6737 %	107.5387 %	110.4284 %
Concentration RSD	0.7 %	0.6 %	1.4 %	1.3 %	1.4 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-02 WG1935502
Analysis started at: 6/19/2024 8:33:53 PM
Comments <Comment>
Rack: 2
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0079 ppm	0.0000 ppm	0.0026 ppm	0.0198 ppm	0.0000 ppm	6.3695 ppm
Concentration per Run 1	-0.0008 ppm	0.0052 ppm	0.0000 ppm	0.0023 ppm	0.0197 ppm	0.0001 ppm	6.2631 ppm
Concentration per Run 2	0.0003 ppm	0.0124 ppm	0.0001 ppm	0.0028 ppm	0.0198 ppm	0.0000 ppm	6.4195 ppm
Concentration per Run 3	-0.0002 ppm	0.0060 ppm	0.0001 ppm	0.0026 ppm	0.0199 ppm	0.0001 ppm	6.4257 ppm
Concentration RSD	282.3 %	49.9 %	149.4 %	10.6 %	0.7 %	66.5 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0036 ppm	0.4589 ppm	1.8851 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0005 ppm	-0.0001 ppm	0.0018 ppm	0.4566 ppm	1.8880 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0052 ppm	0.5092 ppm	1.8819 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0038 ppm	0.4108 ppm	1.8855 ppm
Concentration RSD	47.8 %	46.1 %	102.6 %	132.5 %	47.5 %	10.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	6.3733 ppm	0.0003 ppm	0.0006 ppm	-0.0006 ppm	-0.0008 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	6.2854 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 2	0.0004 ppm	-0.0003 ppm	6.4184 ppm	0.0004 ppm	0.0004 ppm	-0.0009 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	6.4161 ppm	0.0003 ppm	0.0011 ppm	-0.0010 ppm	-0.0011 ppm
Concentration RSD	102.5 %	1,772.8 %	1.2 %	30.9 %	66.3 %	92.3 %	38.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5058 ppm	-0.0016 ppm	0.0156 ppm	0.0005 ppm	-0.0003 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 1	2.5148 ppm	-0.0017 ppm	0.0155 ppm	0.0004 ppm	-0.0002 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 2	2.5102 ppm	-0.0013 ppm	0.0157 ppm	0.0006 ppm	-0.0005 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 3	2.4923 ppm	-0.0017 ppm	0.0156 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	-0.0004 ppm
Concentration RSD	0.5 %	16.9 %	0.7 %	21.1 %	108.3 %	301.0 %	5.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.4653 %	114.1856 %	114.1997 %	79.4925 %	109.3463 %	108.7593 %
Concentration per Run 1	112.5308 %	114.1383 %	114.1796 %	77.9344 %	108.8556 %	108.0648 %
Concentration per Run 2	109.4927 %	114.2045 %	114.1742 %	79.1946 %	109.2243 %	108.9125 %
Concentration per Run 3	109.3723 %	114.2139 %	114.2452 %	81.3485 %	109.9591 %	109.3005 %
Concentration RSD	1.6 %	0.0 %	0.0 %	2.2 %	0.5 %	0.6 %

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-03 WG1935502
Analysis started at: 6/19/2024 8:40:10 PM
Comments <Comment>
Rack: 2
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1318 ppm	0.0000 ppm	0.0024 ppm	0.0185 ppm	0.0000 ppm	8.1149 ppm
Concentration per Run 1	0.0000 ppm	0.1251 ppm	-0.0006 ppm	0.0025 ppm	0.0186 ppm	0.0000 ppm	8.2655 ppm
Concentration per Run 2	0.0002 ppm	0.1297 ppm	0.0007 ppm	0.0024 ppm	0.0184 ppm	0.0000 ppm	8.0533 ppm
Concentration per Run 3	0.0002 ppm	0.1405 ppm	-0.0002 ppm	0.0024 ppm	0.0186 ppm	-0.0001 ppm	8.0258 ppm
Concentration RSD	59.2 %	6.0 %	1,724.5 %	1.9 %	0.8 %	404.7 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0007 ppm	0.2040 ppm	0.6084 ppm	2.3970 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0008 ppm	0.2049 ppm	0.6074 ppm	2.4013 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0007 ppm	0.2032 ppm	0.6245 ppm	2.3805 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0007 ppm	0.2038 ppm	0.5932 ppm	2.4092 ppm
Concentration RSD	511.9 %	31.6 %	16.2 %	12.7 %	0.4 %	2.6 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0060 ppm	0.0001 ppm	5.4364 ppm	0.0005 ppm	0.0009 ppm	-0.0008 ppm	-0.0026 ppm
Concentration per Run 1	0.0061 ppm	0.0003 ppm	5.5400 ppm	0.0008 ppm	0.0007 ppm	0.0001 ppm	-0.0038 ppm
Concentration per Run 2	0.0060 ppm	0.0000 ppm	5.3997 ppm	0.0004 ppm	0.0007 ppm	-0.0009 ppm	-0.0032 ppm
Concentration per Run 3	0.0060 ppm	0.0000 ppm	5.3694 ppm	0.0004 ppm	0.0011 ppm	-0.0015 ppm	-0.0009 ppm
Concentration RSD	1.7 %	143.7 %	1.7 %	40.6 %	25.6 %	104.9 %	57.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5282 ppm	-0.0017 ppm	0.0188 ppm	0.0032 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 1	2.5394 ppm	-0.0015 ppm	0.0193 ppm	0.0032 ppm	-0.0008 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 2	2.5266 ppm	-0.0017 ppm	0.0186 ppm	0.0031 ppm	0.0000 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 3	2.5188 ppm	-0.0019 ppm	0.0184 ppm	0.0035 ppm	0.0010 ppm	0.0002 ppm	0.0014 ppm
Concentration RSD	0.4 %	13.8 %	2.5 %	6.1 %	1,168.2 %	42.2 %	2.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.8609 %	112.6717 %	113.1684 %	79.6058 %	108.0854 %	107.6633 %
Concentration per Run 1	104.4930 %	112.3313 %	113.4448 %	76.5532 %	107.6349 %	107.0025 %
Concentration per Run 2	107.6079 %	113.1786 %	112.9521 %	79.9953 %	108.1457 %	108.1797 %
Concentration per Run 3	108.4817 %	112.5052 %	113.1082 %	82.2689 %	108.4756 %	107.8076 %
Concentration RSD	2.0 %	0.4 %	0.2 %	3.6 %	0.4 %	0.6 %

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-04 WG1935502
Analysis started at: 6/19/2024 8:46:27 PM
Comments <Comment>
Rack: 2
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0369 ppm	0.0007 ppm	0.0032 ppm	0.0233 ppm	0.0001 ppm	9.6472 ppm
Concentration per Run 1	-0.0004 ppm	0.0351 ppm	0.0003 ppm	0.0032 ppm	0.0243 ppm	0.0001 ppm	10.0077 ppm
Concentration per Run 2	0.0000 ppm	0.0408 ppm	0.0017 ppm	0.0034 ppm	0.0229 ppm	0.0001 ppm	9.5078 ppm
Concentration per Run 3	0.0000 ppm	0.0347 ppm	0.0002 ppm	0.0032 ppm	0.0226 ppm	0.0001 ppm	9.4259 ppm
Concentration RSD	173.7 %	9.2 %	112.8 %	3.2 %	3.9 %	7.5 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0545 ppm	0.8751 ppm	2.4158 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0564 ppm	0.9345 ppm	2.4165 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0539 ppm	0.8619 ppm	2.4096 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0533 ppm	0.8288 ppm	2.4212 ppm
Concentration RSD	388.4 %	1,587.5 %	144.0 %	98.0 %	3.0 %	6.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0182 ppm	0.0001 ppm	6.2315 ppm	0.0005 ppm	0.0007 ppm	0.0009 ppm	-0.0018 ppm
Concentration per Run 1	0.0186 ppm	-0.0001 ppm	6.4718 ppm	0.0004 ppm	0.0013 ppm	0.0010 ppm	-0.0023 ppm
Concentration per Run 2	0.0179 ppm	0.0002 ppm	6.1364 ppm	0.0004 ppm	-0.0006 ppm	0.0009 ppm	-0.0014 ppm
Concentration per Run 3	0.0179 ppm	0.0002 ppm	6.0864 ppm	0.0006 ppm	0.0013 ppm	0.0010 ppm	-0.0018 ppm
Concentration RSD	2.2 %	163.3 %	3.4 %	36.1 %	164.6 %	7.5 %	26.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5871 ppm	-0.0017 ppm	0.0198 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	2.6049 ppm	-0.0018 ppm	0.0204 ppm	0.0010 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm
Concentration per Run 2	2.5845 ppm	-0.0017 ppm	0.0195 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	2.5717 ppm	-0.0017 ppm	0.0195 ppm	0.0008 ppm	0.0001 ppm	0.0004 ppm	0.0007 ppm
Concentration RSD	0.6 %	2.4 %	2.7 %	10.0 %	213.6 %	52.0 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.7705 %	112.9465 %	113.1632 %	78.2056 %	108.5574 %	108.0653 %
Concentration per Run 1	102.7644 %	112.5569 %	113.3278 %	73.6087 %	108.0259 %	107.3823 %
Concentration per Run 2	108.3988 %	113.2027 %	112.9962 %	78.6935 %	108.6023 %	108.3624 %
Concentration per Run 3	109.1483 %	113.0800 %	113.1657 %	82.3147 %	109.0439 %	108.4511 %
Concentration RSD	3.3 %	0.3 %	0.1 %	5.6 %	0.5 %	0.5 %

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Sample: I2433494-05 WG1935502
Analysis started at: 6/19/2024 8:52:45 PM
Comments <Comment>
Rack: 2
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0210 ppm	0.0001 ppm	0.0031 ppm	0.0207 ppm	0.0000 ppm	7.7333 ppm
Concentration per Run 1	0.0003 ppm	0.0176 ppm	0.0000 ppm	0.0029 ppm	0.0204 ppm	0.0000 ppm	7.5416 ppm
Concentration per Run 2	-0.0003 ppm	0.0250 ppm	0.0013 ppm	0.0033 ppm	0.0208 ppm	0.0000 ppm	7.7997 ppm
Concentration per Run 3	0.0001 ppm	0.0204 ppm	-0.0008 ppm	0.0031 ppm	0.0209 ppm	-0.0001 ppm	7.8587 ppm
Concentration RSD	594.0 %	17.9 %	688.9 %	6.2 %	1.3 %	112.2 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0256 ppm	0.6062 ppm	2.1147 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0242 ppm	0.5876 ppm	2.1285 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0267 ppm	0.5990 ppm	2.1109 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0259 ppm	0.6319 ppm	2.1048 ppm
Concentration RSD	341.4 %	185.7 %	1,418.1 %	28.5 %	5.1 %	3.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0170 ppm	0.0002 ppm	8.5462 ppm	0.0007 ppm	0.0002 ppm	-0.0004 ppm	-0.0019 ppm
Concentration per Run 1	0.0164 ppm	0.0002 ppm	8.3565 ppm	0.0006 ppm	0.0005 ppm	-0.0007 ppm	-0.0033 ppm
Concentration per Run 2	0.0171 ppm	0.0001 ppm	8.6245 ppm	0.0007 ppm	-0.0001 ppm	-0.0003 ppm	-0.0007 ppm
Concentration per Run 3	0.0176 ppm	0.0002 ppm	8.6575 ppm	0.0009 ppm	0.0003 ppm	-0.0004 ppm	-0.0018 ppm
Concentration RSD	3.6 %	32.1 %	1.9 %	22.6 %	154.5 %	42.2 %	66.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.6007 ppm	-0.0017 ppm	0.0175 ppm	0.0009 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	2.6171 ppm	-0.0014 ppm	0.0172 ppm	0.0006 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	2.5906 ppm	-0.0019 ppm	0.0178 ppm	0.0011 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	2.5945 ppm	-0.0018 ppm	0.0176 ppm	0.0009 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm
Concentration RSD	0.5 %	16.0 %	1.8 %	28.9 %	583.9 %	43.8 %	49.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.1250 %	111.8501 %	111.6153 %	79.5885 %	107.8289 %	107.2588 %
Concentration per Run 1	111.5232 %	111.4582 %	112.1753 %	78.6438 %	107.6542 %	106.3873 %
Concentration per Run 2	108.7219 %	112.3811 %	111.7309 %	79.3847 %	108.2644 %	107.6192 %
Concentration per Run 3	107.1298 %	111.7109 %	110.9395 %	80.7368 %	107.5681 %	107.7700 %
Concentration RSD	2.0 %	0.4 %	0.6 %	1.3 %	0.4 %	0.7 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 8:59:02 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4546 ppm	0.4645 ppm	0.4418 ppm	0.4430 ppm	0.4577 ppm	0.4521 ppm	0.4555 ppm
Concentration per Run 1	0.4544 ppm	0.4763 ppm	0.4420 ppm	0.4435 ppm	0.4620 ppm	0.4563 ppm	0.4636 ppm
Concentration per Run 2	0.4558 ppm	0.4534 ppm	0.4419 ppm	0.4433 ppm	0.4542 ppm	0.4494 ppm	0.4534 ppm
Concentration per Run 3	0.4535 ppm	0.4639 ppm	0.4417 ppm	0.4422 ppm	0.4569 ppm	0.4508 ppm	0.4497 ppm
Recovery Percentage 1	90.915 %	92.901 %	88.370 %	88.597 %	91.543 %	90.429 %	91.109 %
Concentration RSD	0.2 %	2.5 %	0.0 %	0.2 %	0.9 %	0.8 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4437 ppm	0.4512 ppm	0.4530 ppm	0.4486 ppm	0.4568 ppm	4.7688 ppm	0.4446 ppm
Concentration per Run 1	0.4437 ppm	0.4513 ppm	0.4549 ppm	0.4485 ppm	0.4598 ppm	4.8009 ppm	0.4477 ppm
Concentration per Run 2	0.4445 ppm	0.4519 ppm	0.4522 ppm	0.4488 ppm	0.4549 ppm	4.7292 ppm	0.4419 ppm
Concentration per Run 3	0.4428 ppm	0.4504 ppm	0.4518 ppm	0.4484 ppm	0.4558 ppm	4.7764 ppm	0.4441 ppm
Recovery Percentage 1	88.738 %	90.234 %	90.598 %	89.717 %	91.360 %	95.376 %	88.915 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.0 %	0.6 %	0.8 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4436 ppm	0.4413 ppm	9.2425 ppm	0.4569 ppm	0.4550 ppm	0.4533 ppm	0.4525 ppm
Concentration per Run 1	0.4463 ppm	0.4392 ppm	9.3218 ppm	0.4579 ppm	0.4562 ppm	0.4531 ppm	0.4509 ppm
Concentration per Run 2	0.4417 ppm	0.4417 ppm	9.1760 ppm	0.4580 ppm	0.4549 ppm	0.4550 ppm	0.4538 ppm
Concentration per Run 3	0.4429 ppm	0.4429 ppm	9.2296 ppm	0.4549 ppm	0.4538 ppm	0.4518 ppm	0.4529 ppm
Recovery Percentage 1	88.728 %	88.251 %	92.425 %	91.386 %	90.993 %	90.658 %	90.509 %
Concentration RSD	0.5 %	0.4 %	0.8 %	0.4 %	0.3 %	0.4 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0911 ppm	0.4458 ppm	0.4475 ppm	0.4432 ppm	0.4485 ppm	0.4519 ppm	0.4544 ppm
Concentration per Run 1	5.0958 ppm	0.4455 ppm	0.4517 ppm	0.4438 ppm	0.4487 ppm	0.4516 ppm	0.4543 ppm
Concentration per Run 2	5.0986 ppm	0.4463 ppm	0.4439 ppm	0.4430 ppm	0.4489 ppm	0.4527 ppm	0.4554 ppm
Concentration per Run 3	5.0789 ppm	0.4457 ppm	0.4468 ppm	0.4427 ppm	0.4480 ppm	0.4513 ppm	0.4534 ppm
Recovery Percentage 1	96.973 %	89.169 %	89.492 %	88.632 %	89.708 %	90.371 %	90.871 %
Concentration RSD	0.2 %	0.1 %	0.9 %	0.1 %	0.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.8913 %	111.9397 %	111.0953 %	89.1178 %	109.0611 %	111.8925 %
Concentration per Run 1	106.1947 %	111.8579 %	111.1539 %	87.1999 %	108.9328 %	111.7652 %
Concentration per Run 2	107.3361 %	111.9531 %	111.0200 %	89.4495 %	108.8653 %	112.0845 %
Concentration per Run 3	107.1430 %	112.0081 %	111.1121 %	90.7041 %	109.3851 %	111.8276 %
Recovery Percentage 1						
Concentration RSD	0.6 %	0.1 %	0.1 %	2.0 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:05:06 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0025 ppm	0.0000 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0160 ppm
Concentration per Run 1	0.0007 ppm	-0.0052 ppm	0.0009 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 2	-0.0004 ppm	0.0128 ppm	-0.0003 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0210 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0007 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0136 ppm
Recovery Percentage 1	1.778 %	2.474 %	-0.937 %	2.639 %	1.795 %	-0.384 %	16.015 %
Concentration RSD	440.1 %	375.7 %	1,726.8 %	66.5 %	79.1 %	60.4 %	26.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0058 ppm	-0.0611 ppm	0.0029 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0005 ppm	0.0044 ppm	-0.0644 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0076 ppm	-0.0299 ppm	0.0055 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0055 ppm	-0.0892 ppm	0.0019 ppm
Recovery Percentage 1	0.312 %	-0.137 %	-1.239 %	-3.268 %	11.657 %	-2.445 %	2.950 %
Concentration RSD	133.4 %	444.3 %	160.8 %	67.4 %	27.6 %	48.7 %	76.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0012 ppm	-0.0525 ppm	0.0004 ppm	0.0010 ppm	0.0016 ppm	-0.0013 ppm
Concentration per Run 1	0.0003 ppm	0.0015 ppm	-0.0546 ppm	0.0002 ppm	0.0008 ppm	0.0018 ppm	-0.0030 ppm
Concentration per Run 2	-0.0002 ppm	0.0011 ppm	-0.0494 ppm	0.0005 ppm	0.0008 ppm	0.0009 ppm	-0.0014 ppm
Concentration per Run 3	0.0003 ppm	0.0011 ppm	-0.0536 ppm	0.0004 ppm	0.0012 ppm	0.0020 ppm	0.0006 ppm
Recovery Percentage 1	1.334 %	2.486 %	-2.627 %	1.417 %	9.649 %	3.169 %	-12.717 %
Concentration RSD	211.4 %	15.2 %	5.3 %	48.0 %	25.6 %	34.9 %	142.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	-0.0007 ppm	0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0021 ppm	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0012 ppm	-0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0023 ppm	-0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	0.374 %	-1.408 %	2.095 %	2.877 %	3.317 %	0.466 %	-1.381 %
Concentration RSD	32.3 %	21.6 %	27.6 %	69.8 %	32.2 %	329.4 %	116.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.0282 %	112.1004 %	111.6115 %	82.5922 %	107.3809 %	108.4737 %
Concentration per Run 1	102.1573 %	111.5819 %	111.5838 %	78.6238 %	107.0229 %	107.9231 %
Concentration per Run 2	107.4271 %	112.3351 %	111.7091 %	82.9966 %	107.5867 %	108.6458 %
Concentration per Run 3	108.5002 %	112.3841 %	111.5416 %	86.1562 %	107.5330 %	108.8521 %
Recovery Percentage 1						
Concentration RSD	3.2 %	0.4 %	0.1 %	4.6 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 9:15:00 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4653 ppm	0.4723 ppm	0.4478 ppm	0.4502 ppm	0.4716 ppm	0.4628 ppm	0.4680 ppm
Concentration per Run 1	0.4650 ppm	0.4807 ppm	0.4478 ppm	0.4498 ppm	0.4815 ppm	0.4739 ppm	0.4765 ppm
Concentration per Run 2	0.4648 ppm	0.4682 ppm	0.4481 ppm	0.4499 ppm	0.4671 ppm	0.4570 ppm	0.4687 ppm
Concentration per Run 3	0.4661 ppm	0.4679 ppm	0.4474 ppm	0.4507 ppm	0.4661 ppm	0.4576 ppm	0.4588 ppm
Recovery Percentage 1	93.058 %	94.456 %	89.561 %	90.031 %	94.311 %	92.567 %	93.598 %
Concentration RSD	0.2 %	1.5 %	0.1 %	0.1 %	1.8 %	2.1 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4486 ppm	0.4564 ppm	0.4617 ppm	0.4565 ppm	0.4689 ppm	4.9103 ppm	0.4523 ppm
Concentration per Run 1	0.4490 ppm	0.4568 ppm	0.4604 ppm	0.4555 ppm	0.4765 ppm	5.0211 ppm	0.4513 ppm
Concentration per Run 2	0.4483 ppm	0.4562 ppm	0.4618 ppm	0.4571 ppm	0.4646 ppm	4.8638 ppm	0.4545 ppm
Concentration per Run 3	0.4486 ppm	0.4563 ppm	0.4628 ppm	0.4570 ppm	0.4657 ppm	4.8461 ppm	0.4510 ppm
Recovery Percentage 1	89.727 %	91.282 %	92.332 %	91.308 %	93.784 %	98.206 %	90.451 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.2 %	1.4 %	2.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4521 ppm	0.4462 ppm	9.4991 ppm	0.4626 ppm	0.4602 ppm	0.4591 ppm	0.4584 ppm
Concentration per Run 1	0.4610 ppm	0.4454 ppm	9.7153 ppm	0.4626 ppm	0.4603 ppm	0.4594 ppm	0.4583 ppm
Concentration per Run 2	0.4469 ppm	0.4456 ppm	9.4116 ppm	0.4624 ppm	0.4604 ppm	0.4607 ppm	0.4596 ppm
Concentration per Run 3	0.4485 ppm	0.4476 ppm	9.3704 ppm	0.4627 ppm	0.4600 ppm	0.4571 ppm	0.4575 ppm
Recovery Percentage 1	90.428 %	89.239 %	94.991 %	92.515 %	92.045 %	91.813 %	91.688 %
Concentration RSD	1.7 %	0.3 %	2.0 %	0.0 %	0.0 %	0.4 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7965 ppm	0.4622 ppm	0.4644 ppm	0.4518 ppm	0.4529 ppm	0.4590 ppm	0.4583 ppm
Concentration per Run 1	4.8022 ppm	0.4623 ppm	0.4747 ppm	0.4514 ppm	0.4531 ppm	0.4588 ppm	0.4589 ppm
Concentration per Run 2	4.7879 ppm	0.4624 ppm	0.4599 ppm	0.4519 ppm	0.4534 ppm	0.4593 ppm	0.4580 ppm
Concentration per Run 3	4.7993 ppm	0.4619 ppm	0.4586 ppm	0.4522 ppm	0.4522 ppm	0.4589 ppm	0.4580 ppm
Recovery Percentage 1	91.362 %	92.444 %	92.878 %	90.364 %	90.576 %	91.803 %	91.661 %
Concentration RSD	0.2 %	0.1 %	1.9 %	0.1 %	0.1 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.8954 %	111.2087 %	111.1289 %	88.4221 %	109.3589 %	110.8060 %
Concentration per Run 1	103.3663 %	111.3518 %	111.2969 %	85.1308 %	109.4218 %	110.7868 %
Concentration per Run 2	107.5677 %	111.3516 %	111.0367 %	89.8754 %	109.3484 %	110.9125 %
Concentration per Run 3	106.7523 %	110.9227 %	111.0532 %	90.2603 %	109.3065 %	110.7186 %
Recovery Percentage 1						
Concentration RSD	2.1 %	0.2 %	0.1 %	3.2 %	0.1 %	0.1 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:21:06 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0041 ppm	0.0012 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0198 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0111 ppm
Concentration per Run 2	0.0002 ppm	0.0046 ppm	0.0015 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0275 ppm
Concentration per Run 3	0.0002 ppm	0.0078 ppm	0.0002 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0208 ppm
Recovery Percentage 1	0.785 %	4.140 %	23.596 %	3.224 %	0.114 %	0.810 %	19.824 %
Concentration RSD	434.7 %	95.1 %	74.9 %	5.4 %	1,629.5 %	72.0 %	41.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0061 ppm	-0.0282 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0047 ppm	-0.0408 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0056 ppm	-0.0247 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0080 ppm	-0.0191 ppm	0.0038 ppm
Recovery Percentage 1	0.008 %	-0.462 %	0.406 %	-3.579 %	12.195 %	-1.127 %	1.455 %
Concentration RSD	6,003.3 %	45.2 %	893.3 %	84.6 %	28.6 %	39.9 %	143.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0013 ppm	-0.0443 ppm	0.0003 ppm	0.0005 ppm	0.0011 ppm	-0.0015 ppm
Concentration per Run 1	0.0002 ppm	0.0015 ppm	-0.0344 ppm	0.0002 ppm	0.0006 ppm	0.0012 ppm	-0.0013 ppm
Concentration per Run 2	0.0001 ppm	0.0012 ppm	-0.0438 ppm	0.0005 ppm	0.0007 ppm	0.0009 ppm	-0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0012 ppm	-0.0549 ppm	0.0002 ppm	0.0002 ppm	0.0013 ppm	-0.0017 ppm
Recovery Percentage 1	0.453 %	2.612 %	-2.217 %	1.169 %	5.043 %	2.300 %	-15.093 %
Concentration RSD	389.8 %	14.5 %	23.1 %	69.1 %	56.3 %	20.6 %	11.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0022 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0026 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0025 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0009 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0015 ppm	-0.0006 ppm	0.0004 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	0.441 %	-0.912 %	2.832 %	1.069 %	2.940 %	-0.685 %	-2.304 %
Concentration RSD	26.3 %	40.2 %	46.0 %	268.6 %	54.7 %	99.8 %	6.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.2609 %	112.0558 %	111.4481 %	83.5654 %	107.3244 %	107.8123 %
Concentration per Run 1	105.8574 %	111.7064 %	111.7857 %	81.0112 %	107.2368 %	107.4635 %
Concentration per Run 2	108.2387 %	112.1744 %	111.5698 %	84.0584 %	107.3744 %	107.8793 %
Concentration per Run 3	107.6864 %	112.2867 %	110.9887 %	85.6264 %	107.3619 %	108.0940 %
Recovery Percentage 1						
Concentration RSD	1.2 %	0.3 %	0.4 %	2.8 %	0.1 %	0.3 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-06 WG1935502
Analysis started at: 6/19/2024 9:28:11 PM
Comments <Comment>
Rack: 2
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	2.6794 ppm	0.0015 ppm	0.0037 ppm	0.0700 ppm	0.0001 ppm	12.6033 ppm
Concentration per Run 1	0.0003 ppm	2.6582 ppm	0.0013 ppm	0.0039 ppm	0.0700 ppm	0.0001 ppm	12.5507 ppm
Concentration per Run 2	0.0005 ppm	2.6878 ppm	0.0024 ppm	0.0034 ppm	0.0696 ppm	0.0001 ppm	12.5795 ppm
Concentration per Run 3	0.0000 ppm	2.6922 ppm	0.0008 ppm	0.0037 ppm	0.0705 ppm	0.0002 ppm	12.6795 ppm
Concentration RSD	86.1 %	0.7 %	53.4 %	6.0 %	0.6 %	41.9 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0067 ppm	0.0082 ppm	0.0051 ppm	6.0685 ppm	1.2020 ppm	3.7104 ppm
Concentration per Run 1	0.0003 ppm	0.0068 ppm	0.0084 ppm	0.0051 ppm	6.0448 ppm	1.1980 ppm	3.6962 ppm
Concentration per Run 2	0.0003 ppm	0.0067 ppm	0.0081 ppm	0.0050 ppm	6.0528 ppm	1.2035 ppm	3.7210 ppm
Concentration per Run 3	0.0003 ppm	0.0066 ppm	0.0082 ppm	0.0051 ppm	6.1080 ppm	1.2044 ppm	3.7140 ppm
Concentration RSD	15.2 %	1.2 %	1.9 %	1.0 %	0.6 %	0.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.9336 ppm	0.0015 ppm	8.1687 ppm	0.0047 ppm	0.0043 ppm	0.0001 ppm	-0.0016 ppm
Concentration per Run 1	0.9332 ppm	0.0014 ppm	8.1597 ppm	0.0046 ppm	0.0037 ppm	0.0006 ppm	-0.0032 ppm
Concentration per Run 2	0.9323 ppm	0.0016 ppm	8.1546 ppm	0.0050 ppm	0.0045 ppm	-0.0013 ppm	-0.0013 ppm
Concentration per Run 3	0.9353 ppm	0.0014 ppm	8.1919 ppm	0.0045 ppm	0.0047 ppm	0.0010 ppm	-0.0001 ppm
Concentration RSD	0.2 %	7.0 %	0.2 %	5.6 %	13.0 %	1,343.4 %	102.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.4862 ppm	-0.0016 ppm	0.0282 ppm	0.0735 ppm	0.0007 ppm	0.0051 ppm	0.0145 ppm
Concentration per Run 1	4.5113 ppm	-0.0017 ppm	0.0280 ppm	0.0731 ppm	0.0009 ppm	0.0050 ppm	0.0147 ppm
Concentration per Run 2	4.4993 ppm	-0.0015 ppm	0.0283 ppm	0.0737 ppm	0.0006 ppm	0.0051 ppm	0.0145 ppm
Concentration per Run 3	4.4480 ppm	-0.0017 ppm	0.0282 ppm	0.0736 ppm	0.0006 ppm	0.0051 ppm	0.0142 ppm
Concentration RSD	0.7 %	6.0 %	0.5 %	0.5 %	26.6 %	1.3 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	111.3804 %	114.9465 %	115.4227 %	81.7664 %	108.8716 %	108.8319 %
Concentration per Run 1	111.4834 %	115.2742 %	115.3108 %	79.7364 %	108.2757 %	108.9375 %
Concentration per Run 2	111.8669 %	114.9410 %	115.3415 %	82.2071 %	108.6121 %	108.5513 %
Concentration per Run 3	110.7909 %	114.6242 %	115.6157 %	83.3556 %	109.7270 %	109.0067 %
Concentration RSD	0.5 %	0.3 %	0.1 %	2.3 %	0.7 %	0.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-07 WG1935502
Analysis started at: 6/19/2024 9:34:24 PM
Comments <Comment>
Rack: 2
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0168 ppm	0.0008 ppm	0.0036 ppm	0.0283 ppm	0.0000 ppm	14.1955 ppm
Concentration per Run 1	0.0000 ppm	0.0143 ppm	0.0021 ppm	0.0037 ppm	0.0291 ppm	0.0000 ppm	14.5824 ppm
Concentration per Run 2	0.0002 ppm	0.0226 ppm	0.0008 ppm	0.0033 ppm	0.0278 ppm	0.0000 ppm	14.0062 ppm
Concentration per Run 3	0.0001 ppm	0.0135 ppm	-0.0006 ppm	0.0039 ppm	0.0279 ppm	0.0001 ppm	13.9978 ppm
Concentration RSD	70.9 %	30.0 %	167.3 %	8.5 %	2.5 %	11.6 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0481 ppm	1.0241 ppm	3.6288 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0477 ppm	1.0290 ppm	3.6098 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0496 ppm	1.0116 ppm	3.6346 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0471 ppm	1.0318 ppm	3.6420 ppm
Concentration RSD	427.4 %	197.8 %	258.8 %	52.2 %	2.7 %	1.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0320 ppm	0.0004 ppm	11.4675 ppm	0.0011 ppm	0.0001 ppm	-0.0008 ppm	-0.0014 ppm
Concentration per Run 1	0.0331 ppm	0.0004 ppm	11.8220 ppm	0.0012 ppm	-0.0004 ppm	-0.0008 ppm	-0.0022 ppm
Concentration per Run 2	0.0317 ppm	0.0004 ppm	11.2654 ppm	0.0013 ppm	0.0001 ppm	-0.0004 ppm	-0.0006 ppm
Concentration per Run 3	0.0310 ppm	0.0003 ppm	11.3151 ppm	0.0010 ppm	0.0006 ppm	-0.0012 ppm	-0.0015 ppm
Concentration RSD	3.4 %	11.6 %	2.7 %	14.6 %	514.7 %	55.6 %	57.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.6694 ppm	-0.0022 ppm	0.0272 ppm	0.0009 ppm	0.0009 ppm	0.0002 ppm	0.0017 ppm
Concentration per Run 1	2.6887 ppm	-0.0019 ppm	0.0279 ppm	0.0010 ppm	0.0013 ppm	0.0004 ppm	0.0017 ppm
Concentration per Run 2	2.6629 ppm	-0.0021 ppm	0.0268 ppm	0.0011 ppm	-0.0001 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 3	2.6565 ppm	-0.0024 ppm	0.0268 ppm	0.0007 ppm	0.0013 ppm	0.0002 ppm	0.0017 ppm
Concentration RSD	0.6 %	13.4 %	2.4 %	21.7 %	99.5 %	145.6 %	3.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.0860 %	113.7078 %	112.9039 %	77.3055 %	107.8350 %	107.0327 %
Concentration per Run 1	105.3456 %	114.3638 %	113.1531 %	73.6932 %	107.3976 %	106.5783 %
Concentration per Run 2	109.3737 %	113.6550 %	112.9320 %	77.5700 %	107.9860 %	107.3734 %
Concentration per Run 3	109.5387 %	113.1046 %	112.6265 %	80.6534 %	108.1213 %	107.1464 %
Concentration RSD	2.2 %	0.6 %	0.2 %	4.5 %	0.4 %	0.4 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-08 WG1935502
Analysis started at: 6/19/2024 9:40:40 PM
Comments <Comment>
Rack: 2
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0474 ppm	0.0006 ppm	0.0034 ppm	0.0215 ppm	0.0001 ppm	8.9014 ppm
Concentration per Run 1	0.0001 ppm	0.0528 ppm	0.0002 ppm	0.0036 ppm	0.0211 ppm	0.0000 ppm	8.7514 ppm
Concentration per Run 2	-0.0002 ppm	0.0572 ppm	0.0003 ppm	0.0033 ppm	0.0213 ppm	0.0001 ppm	8.9054 ppm
Concentration per Run 3	0.0001 ppm	0.0321 ppm	0.0015 ppm	0.0032 ppm	0.0222 ppm	0.0001 ppm	9.0474 ppm
Concentration RSD	4,852.3 %	28.3 %	109.4 %	7.3 %	2.7 %	59.2 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0774 ppm	0.8037 ppm	2.3381 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0757 ppm	0.7811 ppm	2.3404 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0760 ppm	0.8300 ppm	2.3310 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0805 ppm	0.8002 ppm	2.3430 ppm
Concentration RSD	55.9 %	472.0 %	3,294.7 %	260.4 %	3.5 %	3.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0156 ppm	0.0002 ppm	5.7865 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm	-0.0024 ppm
Concentration per Run 1	0.0156 ppm	0.0001 ppm	5.7095 ppm	0.0006 ppm	0.0015 ppm	-0.0004 ppm	-0.0012 ppm
Concentration per Run 2	0.0153 ppm	0.0004 ppm	5.7873 ppm	0.0005 ppm	-0.0002 ppm	0.0001 ppm	-0.0040 ppm
Concentration per Run 3	0.0160 ppm	0.0002 ppm	5.8628 ppm	0.0004 ppm	0.0012 ppm	0.0005 ppm	-0.0019 ppm
Concentration RSD	2.3 %	72.8 %	1.3 %	15.0 %	110.5 %	860.2 %	60.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5315 ppm	-0.0015 ppm	0.0184 ppm	0.0015 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	2.5336 ppm	-0.0016 ppm	0.0180 ppm	0.0015 ppm	0.0016 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	2.5382 ppm	-0.0015 ppm	0.0185 ppm	0.0016 ppm	0.0012 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	2.5227 ppm	-0.0014 ppm	0.0186 ppm	0.0014 ppm	0.0008 ppm	0.0007 ppm	0.0000 ppm
Concentration RSD	0.3 %	5.1 %	1.5 %	9.4 %	31.9 %	55.8 %	69.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.7777 %	114.4624 %	113.5090 %	82.4157 %	108.3651 %	108.6854 %
Concentration per Run 1	113.9729 %	114.2425 %	114.1547 %	79.7564 %	108.3696 %	107.9248 %
Concentration per Run 2	112.8459 %	115.2187 %	113.1524 %	82.5647 %	108.0160 %	109.2569 %
Concentration per Run 3	111.5142 %	113.9261 %	113.2200 %	84.9261 %	108.7098 %	108.8747 %
Concentration RSD	1.1 %	0.6 %	0.5 %	3.1 %	0.3 %	0.6 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: I2433494-10 WG1935502
Analysis started at: 6/19/2024 9:46:57 PM
Comments <Comment>
Rack: 2
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0086 ppm	0.0008 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0253 ppm
Concentration per Run 1	-0.0001 ppm	0.0157 ppm	0.0014 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0203 ppm
Concentration per Run 2	-0.0005 ppm	0.0168 ppm	0.0007 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0294 ppm
Concentration per Run 3	0.0004 ppm	-0.0066 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0262 ppm
Concentration RSD	657.4 %	153.0 %	73.3 %	29.0 %	190.7 %	205.9 %	18.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0036 ppm	-0.0651 ppm	0.0085 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0047 ppm	-0.0584 ppm	0.0091 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0034 ppm	-0.0799 ppm	0.0057 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0028 ppm	-0.0570 ppm	0.0107 ppm
Concentration RSD	62.1 %	46.9 %	120.5 %	1,942.1 %	27.3 %	19.7 %	30.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	-0.0001 ppm	-0.0613 ppm	0.0003 ppm	-0.0002 ppm	-0.0009 ppm	-0.0029 ppm
Concentration per Run 1	0.0011 ppm	-0.0002 ppm	-0.0604 ppm	0.0000 ppm	-0.0007 ppm	-0.0010 ppm	-0.0033 ppm
Concentration per Run 2	0.0006 ppm	0.0000 ppm	-0.0603 ppm	0.0006 ppm	0.0001 ppm	-0.0011 ppm	-0.0018 ppm
Concentration per Run 3	0.0009 ppm	0.0000 ppm	-0.0630 ppm	0.0003 ppm	-0.0001 ppm	-0.0007 ppm	-0.0036 ppm
Concentration RSD	27.7 %	132.5 %	2.5 %	99.4 %	149.8 %	19.1 %	33.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0069 ppm	-0.0019 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0072 ppm	-0.0021 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0068 ppm	-0.0021 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0066 ppm	-0.0016 ppm	0.0002 ppm	0.0000 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm
Concentration RSD	4.5 %	15.9 %	17.0 %	375.9 %	309.6 %	1,546.6 %	48.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	113.6318 %	113.8716 %	113.4941 %	81.4932 %	108.1119 %	107.6641 %
Concentration per Run 1	117.2518 %	113.4417 %	112.7655 %	80.7296 %	106.7152 %	106.3264 %
Concentration per Run 2	112.4663 %	114.6807 %	114.1520 %	81.4895 %	108.8094 %	108.8966 %
Concentration per Run 3	111.1772 %	113.4925 %	113.5648 %	82.2604 %	108.8112 %	107.7695 %
Concentration RSD	2.8 %	0.6 %	0.6 %	0.9 %	1.1 %	1.2 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 9:53:18 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4594 ppm	0.4563 ppm	0.4433 ppm	0.4451 ppm	0.4551 ppm	0.4492 ppm	0.4485 ppm
Concentration per Run 1	0.4605 ppm	0.4450 ppm	0.4431 ppm	0.4441 ppm	0.4514 ppm	0.4447 ppm	0.4464 ppm
Concentration per Run 2	0.4585 ppm	0.4542 ppm	0.4444 ppm	0.4476 ppm	0.4567 ppm	0.4517 ppm	0.4534 ppm
Concentration per Run 3	0.4592 ppm	0.4697 ppm	0.4422 ppm	0.4437 ppm	0.4572 ppm	0.4511 ppm	0.4458 ppm
Recovery Percentage 1	91.881 %	91.257 %	88.651 %	89.020 %	91.023 %	89.830 %	89.706 %
Concentration RSD	0.2 %	2.7 %	0.2 %	0.5 %	0.7 %	0.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4431 ppm	0.4510 ppm	0.4524 ppm	0.4486 ppm	0.4549 ppm	4.7338 ppm	0.4456 ppm
Concentration per Run 1	0.4427 ppm	0.4508 ppm	0.4530 ppm	0.4493 ppm	0.4500 ppm	4.7154 ppm	0.4451 ppm
Concentration per Run 2	0.4446 ppm	0.4523 ppm	0.4530 ppm	0.4483 ppm	0.4582 ppm	4.7333 ppm	0.4453 ppm
Concentration per Run 3	0.4421 ppm	0.4499 ppm	0.4513 ppm	0.4481 ppm	0.4565 ppm	4.7528 ppm	0.4463 ppm
Recovery Percentage 1	88.623 %	90.195 %	90.490 %	89.712 %	90.984 %	94.676 %	89.120 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.1 %	0.9 %	0.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4401 ppm	0.4391 ppm	9.1873 ppm	0.4573 ppm	0.4560 ppm	0.4542 ppm	0.4548 ppm
Concentration per Run 1	0.4356 ppm	0.4373 ppm	9.0927 ppm	0.4571 ppm	0.4551 ppm	0.4534 ppm	0.4549 ppm
Concentration per Run 2	0.4422 ppm	0.4404 ppm	9.2289 ppm	0.4591 ppm	0.4583 ppm	0.4564 ppm	0.4573 ppm
Concentration per Run 3	0.4425 ppm	0.4395 ppm	9.2403 ppm	0.4558 ppm	0.4546 ppm	0.4528 ppm	0.4523 ppm
Recovery Percentage 1	88.016 %	87.813 %	91.873 %	91.469 %	91.202 %	90.834 %	90.966 %
Concentration RSD	0.9 %	0.4 %	0.9 %	0.4 %	0.4 %	0.4 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7432 ppm	0.4550 ppm	0.4489 ppm	0.4457 ppm	0.4484 ppm	0.4515 ppm	0.4532 ppm
Concentration per Run 1	4.7366 ppm	0.4555 ppm	0.4448 ppm	0.4458 ppm	0.4484 ppm	0.4520 ppm	0.4525 ppm
Concentration per Run 2	4.7619 ppm	0.4556 ppm	0.4510 ppm	0.4454 ppm	0.4493 ppm	0.4518 ppm	0.4549 ppm
Concentration per Run 3	4.7311 ppm	0.4540 ppm	0.4508 ppm	0.4458 ppm	0.4475 ppm	0.4508 ppm	0.4522 ppm
Recovery Percentage 1	90.347 %	91.005 %	89.774 %	89.132 %	89.685 %	90.304 %	90.640 %
Concentration RSD	0.3 %	0.2 %	0.8 %	0.0 %	0.2 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.0832 %	112.4083 %	111.7103 %	93.3970 %	109.6975 %	111.3010 %
Concentration per Run 1	110.9451 %	112.4559 %	112.2859 %	92.9183 %	109.8858 %	111.3151 %
Concentration per Run 2	109.7144 %	112.6251 %	111.6075 %	93.4308 %	109.4364 %	111.2894 %
Concentration per Run 3	109.5901 %	112.1439 %	111.2374 %	93.8418 %	109.7704 %	111.2984 %
Recovery Percentage 1						
Concentration RSD	0.7 %	0.2 %	0.5 %	0.5 %	0.2 %	0.0 %

ICP DataTrace 5

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LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:59:22 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0060 ppm	0.0012 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0168 ppm
Concentration per Run 1	-0.0003 ppm	0.0130 ppm	0.0015 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0161 ppm
Concentration per Run 2	-0.0002 ppm	-0.0012 ppm	-0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	0.0196 ppm
Concentration per Run 3	0.0000 ppm	0.0062 ppm	0.0021 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0148 ppm
Recovery Percentage 1	-2.507 %	5.971 %	23.285 %	2.288 %	1.351 %	1.073 %	16.834 %
Concentration RSD	85.3 %	119.0 %	98.9 %	47.7 %	143.2 %	50.3 %	14.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0063 ppm	-0.0667 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0054 ppm	-0.0626 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0077 ppm	-0.0547 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0058 ppm	-0.0829 ppm	0.0012 ppm
Recovery Percentage 1	0.288 %	-0.915 %	0.143 %	-1.552 %	12.651 %	-2.669 %	0.666 %
Concentration RSD	149.1 %	93.7 %	842.7 %	26.4 %	19.3 %	21.9 %	152.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0013 ppm	-0.0410 ppm	0.0003 ppm	0.0002 ppm	0.0019 ppm	-0.0023 ppm
Concentration per Run 1	0.0002 ppm	0.0016 ppm	-0.0335 ppm	0.0005 ppm	0.0006 ppm	0.0019 ppm	-0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.0012 ppm	-0.0465 ppm	0.0002 ppm	0.0005 ppm	0.0024 ppm	-0.0032 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	-0.0432 ppm	0.0003 ppm	-0.0004 ppm	0.0013 ppm	-0.0030 ppm
Recovery Percentage 1	-0.172 %	2.620 %	-2.052 %	1.340 %	2.421 %	3.775 %	-22.666 %
Concentration RSD	1,263.3 %	22.4 %	16.4 %	34.0 %	227.5 %	29.3 %	65.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0013 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	0.0013 ppm	-0.0003 ppm	0.0004 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0019 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.0006 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	-0.0010 ppm	0.0002 ppm	-0.0004 ppm
Recovery Percentage 1	0.255 %	-1.019 %	1.637 %	0.449 %	-0.684 %	0.008 %	-6.687 %
Concentration RSD	51.0 %	39.1 %	151.9 %	652.5 %	563.4 %	22,948.8 %	21.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.3127 %	112.7796 %	111.9851 %	85.5602 %	108.3705 %	108.2367 %
Concentration per Run 1	110.3470 %	112.6541 %	112.4977 %	84.0792 %	108.9259 %	108.0339 %
Concentration per Run 2	108.9898 %	113.0626 %	111.5697 %	85.6196 %	108.2274 %	108.5036 %
Concentration per Run 3	108.6013 %	112.6222 %	111.8878 %	86.9820 %	107.9582 %	108.1726 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.2 %	0.4 %	1.7 %	0.5 %	0.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCV
Analysis started at: 6/19/2024 10:05:44 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4600 ppm	0.4504 ppm	0.4441 ppm	0.4457 ppm	0.4532 ppm	0.4446 ppm	0.4502 ppm
Concentration per Run 1	0.4587 ppm	0.4312 ppm	0.4449 ppm	0.4459 ppm	0.4381 ppm	0.4298 ppm	0.4341 ppm
Concentration per Run 2	0.4607 ppm	0.4566 ppm	0.4445 ppm	0.4447 ppm	0.4572 ppm	0.4486 ppm	0.4549 ppm
Concentration per Run 3	0.4607 ppm	0.4635 ppm	0.4429 ppm	0.4464 ppm	0.4644 ppm	0.4554 ppm	0.4615 ppm
Recovery Percentage 1	92.003 %	90.085 %	88.818 %	89.132 %	90.645 %	88.919 %	90.035 %
Concentration RSD	0.3 %	3.8 %	0.2 %	0.2 %	3.0 %	3.0 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4448 ppm	0.4524 ppm	0.4563 ppm	0.4503 ppm	0.4526 ppm	4.7036 ppm	0.4469 ppm
Concentration per Run 1	0.4449 ppm	0.4529 ppm	0.4552 ppm	0.4492 ppm	0.4356 ppm	4.5481 ppm	0.4472 ppm
Concentration per Run 2	0.4442 ppm	0.4517 ppm	0.4563 ppm	0.4508 ppm	0.4557 ppm	4.7363 ppm	0.4444 ppm
Concentration per Run 3	0.4452 ppm	0.4526 ppm	0.4573 ppm	0.4508 ppm	0.4665 ppm	4.8265 ppm	0.4492 ppm
Recovery Percentage 1	88.951 %	90.480 %	91.256 %	90.055 %	90.517 %	94.073 %	89.384 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	3.5 %	3.0 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4362 ppm	0.4410 ppm	9.1083 ppm	0.4585 ppm	0.4558 ppm	0.4543 ppm	0.4537 ppm
Concentration per Run 1	0.4224 ppm	0.4402 ppm	8.8235 ppm	0.4584 ppm	0.4557 ppm	0.4545 ppm	0.4524 ppm
Concentration per Run 2	0.4401 ppm	0.4404 ppm	9.1766 ppm	0.4583 ppm	0.4562 ppm	0.4534 ppm	0.4545 ppm
Concentration per Run 3	0.4461 ppm	0.4423 ppm	9.3249 ppm	0.4586 ppm	0.4556 ppm	0.4549 ppm	0.4542 ppm
Recovery Percentage 1	87.238 %	88.192 %	91.083 %	91.690 %	91.164 %	90.852 %	90.734 %
Concentration RSD	2.8 %	0.3 %	2.8 %	0.0 %	0.1 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7337 ppm	0.4577 ppm	0.4461 ppm	0.4475 ppm	0.4508 ppm	0.4534 ppm	0.4533 ppm
Concentration per Run 1	4.7403 ppm	0.4580 ppm	0.4317 ppm	0.4460 ppm	0.4510 ppm	0.4525 ppm	0.4544 ppm
Concentration per Run 2	4.7278 ppm	0.4577 ppm	0.4496 ppm	0.4483 ppm	0.4514 ppm	0.4536 ppm	0.4520 ppm
Concentration per Run 3	4.7331 ppm	0.4575 ppm	0.4571 ppm	0.4482 ppm	0.4499 ppm	0.4541 ppm	0.4535 ppm
Recovery Percentage 1	90.167 %	91.547 %	89.228 %	89.496 %	90.151 %	90.681 %	90.660 %
Concentration RSD	0.1 %	0.1 %	2.9 %	0.3 %	0.2 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.9765 %	112.0222 %	111.4187 %	93.3775 %	109.4189 %	111.3318 %
Concentration per Run 1	113.0256 %	112.3548 %	111.6544 %	94.1348 %	109.5331 %	111.6106 %
Concentration per Run 2	108.7572 %	112.0943 %	111.6599 %	92.7568 %	109.6313 %	111.2327 %
Concentration per Run 3	108.1466 %	111.6175 %	110.9419 %	93.2410 %	109.0924 %	111.1521 %
Recovery Percentage 1						
Concentration RSD	2.4 %	0.3 %	0.4 %	0.7 %	0.3 %	0.2 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: CCB
Analysis started at: 6/19/2024 10:11:48 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0121 ppm	0.0014 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0125 ppm
Concentration per Run 1	0.0002 ppm	0.0183 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0125 ppm
Concentration per Run 2	0.0004 ppm	0.0104 ppm	0.0010 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 3	0.0006 ppm	0.0075 ppm	0.0024 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0117 ppm
Recovery Percentage 1	5.832 %	12.070 %	27.879 %	2.622 %	0.725 %	1.340 %	12.547 %
Concentration RSD	44.6 %	46.5 %	60.5 %	31.3 %	346.7 %	104.3 %	6.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0043 ppm	-0.0653 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0044 ppm	-0.0497 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0039 ppm	-0.0711 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0008 ppm	0.0046 ppm	-0.0752 ppm	0.0036 ppm
Recovery Percentage 1	0.375 %	-0.405 %	0.112 %	-5.142 %	8.575 %	-2.613 %	1.996 %
Concentration RSD	110.7 %	148.5 %	697.0 %	57.5 %	8.7 %	21.0 %	71.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0015 ppm	-0.0529 ppm	0.0003 ppm	0.0003 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0018 ppm	-0.0572 ppm	0.0006 ppm	-0.0006 ppm	0.0020 ppm	0.0018 ppm
Concentration per Run 2	-0.0001 ppm	0.0013 ppm	-0.0537 ppm	0.0002 ppm	0.0003 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	-0.0477 ppm	0.0001 ppm	0.0011 ppm	0.0000 ppm	-0.0017 ppm
Recovery Percentage 1	-1.147 %	2.978 %	-2.645 %	1.228 %	2.545 %	2.348 %	1.350 %
Concentration RSD	99.7 %	16.0 %	9.1 %	78.1 %	335.5 %	91.9 %	1,291.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0011 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0021 ppm	-0.0008 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0011 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0003 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	0.229 %	-0.852 %	0.536 %	2.473 %	0.012 %	-1.103 %	-3.828 %
Concentration RSD	82.9 %	81.7 %	236.5 %	115.5 %	12,373.9 %	153.4 %	30.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.7314 %	110.7935 %	110.1167 %	86.7321 %	106.3840 %	106.6327 %
Concentration per Run 1	113.4279 %	110.2914 %	110.3419 %	86.6994 %	106.1883 %	105.9278 %
Concentration per Run 2	108.6938 %	111.2436 %	110.0336 %	86.9353 %	106.3938 %	106.8997 %
Concentration per Run 3	107.0726 %	110.8454 %	109.9745 %	86.5615 %	106.5700 %	107.0705 %
Recovery Percentage 1						
Concentration RSD	3.0 %	0.4 %	0.2 %	0.2 %	0.2 %	0.6 %

ICP DataTrace 5

6/19/2024 10:44:39 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Sample: LLOQ RL
Analysis started at: 6/19/2024 10:30:20 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0066 ppm	0.1031 ppm	0.0054 ppm	0.0279 ppm	0.0097 ppm	0.0047 ppm	0.0966 ppm
Concentration per Run 1	0.0068 ppm	0.1063 ppm	0.0060 ppm	0.0275 ppm	0.0097 ppm	0.0047 ppm	0.0972 ppm
Concentration per Run 2	0.0063 ppm	0.1057 ppm	0.0044 ppm	0.0280 ppm	0.0095 ppm	0.0047 ppm	0.0930 ppm
Concentration per Run 3	0.0068 ppm	0.0972 ppm	0.0058 ppm	0.0281 ppm	0.0099 ppm	0.0047 ppm	0.0996 ppm
Recovery Percentage 1	94.924 %	103.081 %	107.862 %	92.962 %	96.827 %	93.687 %	96.577 %
Concentration RSD	3.9 %	4.9 %	15.9 %	1.2 %	2.0 %	0.5 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0037 ppm	0.0187 ppm	0.0091 ppm	0.0089 ppm	**0.0630 ppm**	2.4998 ppm	0.0981 ppm
Concentration per Run 1	0.0036 ppm	0.0185 ppm	0.0091 ppm	0.0085 ppm	0.0688 ppm	2.4877 ppm	0.0977 ppm
Concentration per Run 2	0.0037 ppm	0.0187 ppm	0.0086 ppm	0.0089 ppm	0.0607 ppm	2.4863 ppm	0.0977 ppm
Concentration per Run 3	0.0038 ppm	0.0190 ppm	0.0096 ppm	0.0094 ppm	0.0595 ppm	2.5254 ppm	0.0990 ppm
Recovery Percentage 1	92.569 %	93.494 %	90.935 %	89.393 %	126.042 %	99.992 %	98.133 %
Concentration RSD	1.9 %	1.3 %	5.6 %	4.8 %	**8.0 %**	0.9 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0098 ppm	0.0452 ppm	1.9360 ppm	0.0239 ppm	0.0102 ppm	0.0467 ppm	0.0082 ppm
Concentration per Run 1	0.0098 ppm	0.0442 ppm	1.9301 ppm	0.0237 ppm	0.0105 ppm	0.0452 ppm	0.0103 ppm
Concentration per Run 2	0.0099 ppm	0.0449 ppm	1.9359 ppm	0.0239 ppm	0.0098 ppm	0.0459 ppm	0.0072 ppm
Concentration per Run 3	0.0096 ppm	0.0464 ppm	1.9420 ppm	0.0240 ppm	0.0102 ppm	0.0490 ppm	0.0069 ppm
Recovery Percentage 1	97.687 %	90.340 %	96.800 %	95.533 %	101.785 %	93.397 %	81.769 %
Concentration RSD	1.2 %	2.6 %	0.3 %	0.8 %	3.3 %	4.4 %	23.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4943 ppm	0.0459 ppm	0.0093 ppm	0.0462 ppm	0.0182 ppm	0.0092 ppm	0.0045 ppm
Concentration per Run 1	0.4835 ppm	0.0452 ppm	0.0094 ppm	0.0461 ppm	0.0179 ppm	0.0089 ppm	0.0044 ppm
Concentration per Run 2	0.4922 ppm	0.0460 ppm	0.0093 ppm	0.0463 ppm	0.0187 ppm	0.0096 ppm	0.0045 ppm
Concentration per Run 3	0.5071 ppm	0.0465 ppm	0.0092 ppm	0.0462 ppm	0.0180 ppm	0.0091 ppm	0.0047 ppm
Recovery Percentage 1	98.856 %	91.765 %	93.098 %	92.320 %	91.007 %	92.103 %	90.926 %
Concentration RSD	2.4 %	1.4 %	0.6 %	0.2 %	2.4 %	3.8 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.4013 %	110.9250 %	110.8080 %	107.4155 %	109.7587 %	113.1244 %
Concentration per Run 1	107.8351 %	110.9202 %	111.0864 %	111.7495 %	111.8211 %	113.8501 %
Concentration per Run 2	107.3769 %	111.1605 %	110.3247 %	106.7103 %	110.0177 %	113.3120 %
Concentration per Run 3	106.9920 %	110.6943 %	111.0130 %	103.7866 %	107.4373 %	112.2110 %
Recovery Percentage 1						
Concentration RSD	0.4 %	0.2 %	0.4 %	3.7 %	2.0 %	0.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: Blank JMF Trace9
Analysis started at: 6/20/2024 6:03:05 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.6 %	-1.7 %	-31.3 %	0.1 %	-0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.2 %	0.2 %	-0.3 %	0.0 %	0.5 %	-0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	6.5 %	-0.6 %	100.6 %	-1.7 %	0.8 %	4.5 %	-1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-7.9 %	0.1 %	0.4 %	-0.5 %	-0.4 %	1.3 %	-4.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.4 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: ICAL
Analysis started at: 6/20/2024 6:06:26 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9943 ppm	24.8986 ppm	1.0097 ppm	0.9947 ppm	0.9893 ppm	0.9933 ppm	9.9125 ppm
Concentration per Run 2	1.0032 ppm	24.9633 ppm	0.9748 ppm	1.0053 ppm	1.0017 ppm	0.9992 ppm	10.0160 ppm
Concentration per Run 3	1.0025 ppm	25.1381 ppm	1.0155 ppm	1.0000 ppm	1.0091 ppm	1.0074 ppm	10.0715 ppm
Concentration RSD	0.5 %	0.5 %	2.2 %	0.5 %	1.0 %	0.7 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9994 ppm	0.9991 ppm	0.9927 ppm	0.9923 ppm	24.6114 ppm	34.6731 ppm	0.9885 ppm
Concentration per Run 2	0.9993 ppm	1.0019 ppm	1.0114 ppm	1.0043 ppm	25.0540 ppm	35.0133 ppm	1.0068 ppm
Concentration per Run 3	1.0013 ppm	0.9990 ppm	0.9959 ppm	1.0034 ppm	25.3346 ppm	35.3136 ppm	1.0047 ppm
Concentration RSD	0.1 %	0.2 %	1.0 %	0.7 %	1.5 %	0.9 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9310 ppm	0.9904 ppm	0.9820 ppm	24.7007 ppm	0.9965 ppm	1.0105 ppm	0.9958 ppm
Concentration per Run 2	10.0503 ppm	1.0001 ppm	1.0085 ppm	25.1050 ppm	1.0083 ppm	0.9708 ppm	1.0096 ppm
Concentration per Run 3	10.0187 ppm	1.0094 ppm	1.0095 ppm	25.1943 ppm	0.9952 ppm	1.0187 ppm	0.9947 ppm
Concentration RSD	0.6 %	1.0 %	1.6 %	1.1 %	0.7 %	2.6 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0074 ppm	9.9152 ppm	0.9925 ppm	0.9902 ppm	0.9939 ppm	1.0018 ppm	0.9947 ppm
Concentration per Run 2	0.9706 ppm	10.0489 ppm	1.0056 ppm	0.9999 ppm	1.0026 ppm	0.9745 ppm	1.0032 ppm
Concentration per Run 3	1.0220 ppm	10.0359 ppm	1.0020 ppm	1.0099 ppm	1.0034 ppm	1.0236 ppm	1.0021 ppm
Concentration RSD	2.7 %	0.7 %	0.7 %	1.0 %	0.5 %	2.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	100.4556 %	104.4224 %	96.2755 %	98.7661 %	103.0951 %	99.4874 %
Concentration per Run 1	0.9940 ppm	101.0783 %	105.8754 %	94.9344 %	99.1692 %	104.5026 %	98.2295 %
Concentration per Run 2	1.0068 ppm	99.6199 %	103.8313 %	98.3704 %	98.2900 %	102.6149 %	101.0471 %
Concentration per Run 3	0.9992 ppm	100.6685 %	103.5606 %	95.5218 %	98.8393 %	102.1677 %	99.1854 %
Concentration RSD	0.6 %	0.7 %	1.2 %	1.9 %	0.4 %	1.2 %	1.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: ICV
Analysis started at: 6/20/2024 6:09:54 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5074 ppm	0.5025 ppm	0.4813 ppm	0.5011 ppm	0.5173 ppm	0.5294 ppm	0.4967 ppm
Concentration per Run 1	0.5081 ppm	0.5040 ppm	0.4836 ppm	0.5026 ppm	0.5138 ppm	0.5268 ppm	0.4970 ppm
Concentration per Run 2	0.4919 ppm	0.4986 ppm	0.4805 ppm	0.4822 ppm	0.5180 ppm	0.5314 ppm	0.4941 ppm
Concentration per Run 3	0.5222 ppm	0.5049 ppm	0.4797 ppm	0.5185 ppm	0.5201 ppm	0.5301 ppm	0.4990 ppm
Recovery Percentage 1	101.478 %	100.501 %	96.256 %	100.223 %	103.466 %	105.889 %	99.342 %
Concentration RSD	3.0 %	0.7 %	0.4 %	3.6 %	0.6 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4973 ppm	0.5083 ppm	0.4931 ppm	0.5014 ppm	0.5272 ppm	5.3220 ppm	0.5177 ppm
Concentration per Run 1	0.4990 ppm	0.5099 ppm	0.4973 ppm	0.5042 ppm	0.5243 ppm	5.2400 ppm	0.5134 ppm
Concentration per Run 2	0.4804 ppm	0.4903 ppm	0.4755 ppm	0.4839 ppm	0.5332 ppm	5.3627 ppm	0.5194 ppm
Concentration per Run 3	0.5125 ppm	0.5246 ppm	0.5066 ppm	0.5163 ppm	0.5241 ppm	5.3634 ppm	0.5202 ppm
Recovery Percentage 1	99.454 %	101.652 %	98.629 %	100.288 %	105.440 %	106.440 %	103.531 %
Concentration RSD	3.2 %	3.4 %	3.2 %	3.3 %	1.0 %	1.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4886 ppm	0.5011 ppm	0.5127 ppm	10.1922 ppm	0.5090 ppm	0.4994 ppm	0.5041 ppm
Concentration per Run 1	0.4922 ppm	0.4987 ppm	0.5128 ppm	10.2161 ppm	0.5149 ppm	0.5015 ppm	0.5097 ppm
Concentration per Run 2	0.4706 ppm	0.4998 ppm	0.4957 ppm	10.1189 ppm	0.4898 ppm	0.5034 ppm	0.4812 ppm
Concentration per Run 3	0.5031 ppm	0.5047 ppm	0.5295 ppm	10.2417 ppm	0.5223 ppm	0.4932 ppm	0.5213 ppm
Recovery Percentage 1	97.730 %	100.213 %	102.532 %	101.922 %	101.796 %	99.873 %	100.815 %
Concentration RSD	3.4 %	0.6 %	3.3 %	0.6 %	3.3 %	1.1 %	4.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4909 ppm	5.6662 ppm	0.5285 ppm	0.5179 ppm	0.5037 ppm	0.5062 ppm	0.4892 ppm
Concentration per Run 1	0.4971 ppm	5.6763 ppm	0.5333 ppm	0.5163 ppm	0.5051 ppm	0.5109 ppm	0.4921 ppm
Concentration per Run 2	0.4894 ppm	5.5005 ppm	0.5073 ppm	0.5190 ppm	0.4872 ppm	0.5058 ppm	0.4741 ppm
Concentration per Run 3	0.4862 ppm	5.8217 ppm	0.5449 ppm	0.5184 ppm	0.5188 ppm	0.5019 ppm	0.5015 ppm
Recovery Percentage 1	98.183 %	107.927 %	105.706 %	103.575 %	100.745 %	101.243 %	97.843 %
Concentration RSD	1.1 %	2.8 %	3.6 %	0.3 %	3.2 %	0.9 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5044 ppm	102.2154 %	101.8266 %	99.0057 %	102.1292 %	100.2956 %	99.8887 %
Concentration per Run 1	0.5103 ppm	101.2896 %	101.6937 %	99.0233 %	101.2057 %	100.1794 %	99.8971 %
Concentration per Run 2	0.4864 ppm	106.6173 %	102.2222 %	99.4309 %	106.5708 %	100.0971 %	100.2827 %
Concentration per Run 3	0.5165 ppm	98.7393 %	101.5640 %	98.5628 %	98.6111 %	100.6104 %	99.4863 %
Recovery Percentage 1	100.883 %						
Concentration RSD	3.2 %	3.9 %	0.3 %	0.4 %	4.0 %	0.3 %	0.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: ICB
Analysis started at: 6/20/2024 6:13:22 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0073 ppm	-0.0003 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 1	0.0006 ppm	0.0094 ppm	0.0000 ppm	-0.0011 ppm	-0.0001 ppm	0.0001 ppm	0.0042 ppm
Concentration per Run 2	-0.0002 ppm	0.0062 ppm	-0.0009 ppm	-0.0005 ppm	0.0004 ppm	-0.0001 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0063 ppm	0.0000 ppm	-0.0011 ppm	0.0002 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	1.709 %	7.303 %	-6.769 %	-3.053 %	1.358 %	-0.151 %	0.713 %
Concentration RSD	363.5 %	24.6 %	155.2 %	35.1 %	174.9 %	860.5 %	429.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0019 ppm	-0.0103 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0007 ppm	0.0011 ppm	0.0211 ppm	-0.0011 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0029 ppm	-0.0360 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0007 ppm	0.0016 ppm	-0.0158 ppm	-0.0011 ppm
Recovery Percentage 1	-1.776 %	0.433 %	-0.917 %	5.097 %	3.719 %	-0.410 %	-16.300 %
Concentration RSD	81.8 %	257.8 %	282.0 %	70.8 %	50.0 %	282.1 %	59.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0020 ppm	0.0000 ppm	0.0058 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0052 ppm
Concentration per Run 1	-0.0021 ppm	-0.0001 ppm	0.0058 ppm	-0.0040 ppm	-0.0007 ppm	0.0003 ppm	0.0048 ppm
Concentration per Run 2	-0.0014 ppm	0.0000 ppm	0.0059 ppm	0.0017 ppm	0.0003 ppm	0.0005 ppm	0.0039 ppm
Concentration per Run 3	-0.0025 ppm	0.0001 ppm	0.0055 ppm	0.0010 ppm	0.0007 ppm	-0.0017 ppm	0.0067 ppm
Recovery Percentage 1	-1.999 %	-0.139 %	11.521 %	-0.023 %	0.419 %	-2.964 %	10.302 %
Concentration RSD	28.3 %	881.6 %	3.7 %	669.9 %	667.7 %	400.7 %	27.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	-0.0042 ppm	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0025 ppm	-0.0057 ppm	0.0021 ppm	0.0001 ppm	0.0005 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0031 ppm	-0.0038 ppm	0.0008 ppm	0.0002 ppm	-0.0003 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 3	0.0017 ppm	-0.0031 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	24.540 %	-0.841 %	2.236 %	1.436 %	1.660 %	-0.110 %	-1.662 %
Concentration RSD	27.2 %	32.2 %	73.9 %	34.2 %	237.7 %	3,109.6 %	10.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	101.2290 %	102.8208 %	99.0442 %	102.0764 %	101.4321 %	99.7064 %
Concentration per Run 1	0.0002 ppm	100.3410 %	109.0247 %	98.3034 %	101.0399 %	105.2072 %	98.8706 %
Concentration per Run 2	0.0002 ppm	102.4199 %	97.1017 %	99.1426 %	103.1868 %	97.4305 %	99.7393 %
Concentration per Run 3	0.0002 ppm	100.9260 %	102.3360 %	99.6866 %	102.0026 %	101.6587 %	100.5092 %
Recovery Percentage 1	4.056 %						
Concentration RSD	11.0 %	1.1 %	5.8 %	0.7 %	1.1 %	3.8 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: ICV
Analysis started at: 6/20/2024 6:16:51 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5106 ppm	0.4925 ppm	0.4822 ppm	0.5006 ppm	0.5033 ppm	0.5168 ppm	0.4899 ppm
Concentration per Run 1	0.5085 ppm	0.4959 ppm	0.4832 ppm	0.4985 ppm	0.5056 ppm	0.5177 ppm	0.4939 ppm
Concentration per Run 2	0.5092 ppm	0.4924 ppm	0.4802 ppm	0.4989 ppm	0.5023 ppm	0.5154 ppm	0.4860 ppm
Concentration per Run 3	0.5143 ppm	0.4890 ppm	0.4832 ppm	0.5043 ppm	0.5019 ppm	0.5174 ppm	0.4899 ppm
Recovery Percentage 1	102.126 %	98.495 %	96.440 %	100.112 %	100.654 %	103.367 %	97.987 %
Concentration RSD	0.6 %	0.7 %	0.4 %	0.6 %	0.4 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5007 ppm	0.5113 ppm	0.4948 ppm	0.5028 ppm	0.5123 ppm	5.1301 ppm	0.6255 ppm
Concentration per Run 1	0.4950 ppm	0.5055 ppm	0.4886 ppm	0.5006 ppm	0.5139 ppm	5.1292 ppm	0.6274 ppm
Concentration per Run 2	0.4988 ppm	0.5097 ppm	0.4946 ppm	0.5009 ppm	0.5087 ppm	5.1291 ppm	0.6276 ppm
Concentration per Run 3	0.5084 ppm	0.5186 ppm	0.5011 ppm	0.5069 ppm	0.5143 ppm	5.1321 ppm	0.6215 ppm
Recovery Percentage 1	100.143 %	102.256 %	98.954 %	100.560 %	102.464 %	102.603 %	125.096 %
Concentration RSD	1.4 %	1.3 %	1.3 %	0.7 %	0.6 %	0.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4902 ppm	0.4906 ppm	0.5039 ppm	10.1268 ppm	0.5114 ppm	0.5002 ppm	0.5079 ppm
Concentration per Run 1	0.4857 ppm	0.4917 ppm	0.4941 ppm	10.0921 ppm	0.5053 ppm	0.4991 ppm	0.5020 ppm
Concentration per Run 2	0.4902 ppm	0.4885 ppm	0.5038 ppm	10.1427 ppm	0.5118 ppm	0.4998 ppm	0.5118 ppm
Concentration per Run 3	0.4946 ppm	0.4918 ppm	0.5139 ppm	10.1456 ppm	0.5170 ppm	0.5015 ppm	0.5099 ppm
Recovery Percentage 1	98.032 %	98.126 %	100.785 %	101.268 %	102.271 %	100.035 %	101.581 %
Concentration RSD	0.9 %	0.4 %	2.0 %	0.3 %	1.1 %	0.2 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4974 ppm	5.6321 ppm	0.5115 ppm	0.4919 ppm	0.5079 ppm	0.5061 ppm	0.4944 ppm
Concentration per Run 1	0.4951 ppm	5.5950 ppm	0.5053 ppm	0.4935 ppm	0.5025 ppm	0.5077 ppm	0.4896 ppm
Concentration per Run 2	0.4991 ppm	5.6112 ppm	0.5132 ppm	0.4908 ppm	0.5075 ppm	0.5045 ppm	0.4935 ppm
Concentration per Run 3	0.4980 ppm	5.6901 ppm	0.5159 ppm	0.4913 ppm	0.5138 ppm	0.5062 ppm	0.5001 ppm
Recovery Percentage 1	99.479 %	107.278 %	102.292 %	98.374 %	101.588 %	101.222 %	98.876 %
Concentration RSD	0.4 %	0.9 %	1.1 %	0.3 %	1.1 %	0.3 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5083 ppm	101.4533 %	104.0755 %	99.5751 %	100.3270 %	102.6816 %	100.1742 %
Concentration per Run 1	0.5000 ppm	103.3894 %	103.7134 %	99.0901 %	101.5234 %	102.0931 %	99.8734 %
Concentration per Run 2	0.5096 ppm	101.3489 %	103.9050 %	100.8112 %	100.7013 %	102.5663 %	101.4087 %
Concentration per Run 3	0.5153 ppm	99.6217 %	104.6081 %	98.8239 %	98.7564 %	103.3853 %	99.2404 %
Recovery Percentage 1	101.660 %						
Concentration RSD	1.5 %	1.9 %	0.5 %	1.1 %	1.4 %	0.6 %	1.1 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: ICB
Analysis started at: 6/20/2024 6:20:20 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 1	0.0006 ppm	-0.0029 ppm	-0.0003 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	0.0000 ppm	-0.0011 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 3	0.0002 ppm	0.0035 ppm	0.0015 ppm	-0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm
Recovery Percentage 1	3.899 %	-0.175 %	3.863 %	-0.450 %	0.954 %	0.264 %	1.163 %
Concentration RSD	95.6 %	1,902.3 %	599.4 %	1,390.1 %	81.4 %	453.7 %	207.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm	-0.0045 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0007 ppm	0.0008 ppm	0.0097 ppm	0.0004 ppm
Concentration per Run 2	-0.0003 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0017 ppm	-0.0164 ppm	-0.0019 ppm
Concentration per Run 3	-0.0001 ppm	-0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	-0.0068 ppm	0.0002 ppm
Recovery Percentage 1	-3.292 %	-3.158 %	1.713 %	2.606 %	1.749 %	-0.180 %	-8.740 %
Concentration RSD	66.6 %	38.3 %	46.8 %	153.7 %	88.8 %	293.3 %	297.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0002 ppm	0.0056 ppm	-0.0071 ppm	0.0001 ppm	0.0003 ppm	0.0051 ppm
Concentration per Run 1	0.0008 ppm	-0.0003 ppm	0.0054 ppm	-0.0096 ppm	0.0002 ppm	0.0011 ppm	0.0027 ppm
Concentration per Run 2	-0.0004 ppm	-0.0003 ppm	0.0055 ppm	-0.0034 ppm	0.0005 ppm	0.0002 ppm	0.0044 ppm
Concentration per Run 3	-0.0025 ppm	0.0000 ppm	0.0060 ppm	-0.0085 ppm	-0.0003 ppm	-0.0006 ppm	0.0082 ppm
Recovery Percentage 1	-0.725 %	-2.093 %	11.267 %	-0.357 %	0.497 %	2.530 %	10.155 %
Concentration RSD	233.2 %	80.9 %	5.4 %	46.3 %	292.9 %	331.5 %	55.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	-0.0044 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	-0.0058 ppm	0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0014 ppm	-0.0046 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 3	-0.0009 ppm	-0.0028 ppm	-0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	-0.0001 ppm
Recovery Percentage 1	-9.178 %	-0.884 %	0.493 %	0.544 %	3.382 %	1.069 %	-1.338 %
Concentration RSD	56.4 %	33.9 %	349.3 %	100.2 %	64.4 %	392.2 %	48.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	101.6990 %	102.2363 %	101.5605 %	102.4614 %	101.5531 %	102.3420 %
Concentration per Run 1	0.0002 ppm	101.2565 %	101.4484 %	101.8730 %	102.1833 %	101.7156 %	102.6792 %
Concentration per Run 2	-0.0001 ppm	102.2745 %	102.5401 %	101.8560 %	103.3183 %	100.9435 %	102.8033 %
Concentration per Run 3	0.0001 ppm	101.5658 %	102.7204 %	100.9525 %	101.8826 %	102.0002 %	101.5435 %
Recovery Percentage 1	1.602 %						
Concentration RSD	225.8 %	0.5 %	0.7 %	0.5 %	0.7 %	0.5 %	0.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: LLOQ
Analysis started at: 6/20/2024 6:23:49 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0075 ppm	0.1073 ppm	0.0050 ppm	0.0291 ppm	0.0109 ppm	0.0052 ppm	0.1043 ppm
Concentration per Run 1	0.0078 ppm	0.1012 ppm	0.0028 ppm	0.0281 ppm	0.0108 ppm	0.0052 ppm	0.1056 ppm
Concentration per Run 2	0.0076 ppm	0.0991 ppm	0.0070 ppm	0.0291 ppm	0.0111 ppm	0.0052 ppm	0.1042 ppm
Concentration per Run 3	0.0070 ppm	0.1216 ppm	0.0052 ppm	0.0301 ppm	0.0109 ppm	0.0052 ppm	0.1031 ppm
Recovery Percentage 1	106.967 %	107.286 %	99.825 %	97.041 %	108.998 %	104.627 %	104.328 %
Concentration RSD	5.6 %	11.6 %	42.1 %	3.5 %	1.3 %	0.3 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0202 ppm	0.0098 ppm	0.0105 ppm	0.0533 ppm	2.7585 ppm	0.0109 ppm
Concentration per Run 1	0.0038 ppm	0.0204 ppm	0.0095 ppm	0.0108 ppm	0.0515 ppm	2.7699 ppm	0.0109 ppm
Concentration per Run 2	0.0040 ppm	0.0205 ppm	0.0102 ppm	0.0104 ppm	0.0553 ppm	2.7504 ppm	0.0107 ppm
Concentration per Run 3	0.0042 ppm	0.0197 ppm	0.0097 ppm	0.0104 ppm	0.0530 ppm	2.7553 ppm	0.0111 ppm
Recovery Percentage 1	99.807 %	100.930 %	98.147 %	105.380 %	106.506 %	110.340 %	
Concentration RSD	4.6 %	2.1 %	3.8 %	1.8 %	3.6 %	0.4 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1014 ppm	0.0107 ppm	0.0532 ppm	2.1696 ppm	0.0257 ppm	0.0102 ppm	0.0519 ppm
Concentration per Run 1	0.0992 ppm	0.0107 ppm	0.0530 ppm	2.1544 ppm	0.0254 ppm	0.0101 ppm	0.0513 ppm
Concentration per Run 2	0.1022 ppm	0.0107 ppm	0.0534 ppm	2.1832 ppm	0.0254 ppm	0.0099 ppm	0.0552 ppm
Concentration per Run 3	0.1026 ppm	0.0107 ppm	0.0533 ppm	2.1711 ppm	0.0262 ppm	0.0106 ppm	0.0492 ppm
Recovery Percentage 1	101.373 %	106.911 %	106.457 %	108.478 %	102.753 %	101.907 %	103.853 %
Concentration RSD	1.8 %	0.2 %	0.3 %	0.7 %	1.9 %	3.5 %	5.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0099 ppm	0.5221 ppm	0.0521 ppm	0.0104 ppm	0.0503 ppm	0.0185 ppm	0.0097 ppm
Concentration per Run 1	0.0082 ppm	0.5201 ppm	0.0523 ppm	0.0105 ppm	0.0501 ppm	0.0177 ppm	0.0098 ppm
Concentration per Run 2	0.0103 ppm	0.5187 ppm	0.0522 ppm	0.0104 ppm	0.0500 ppm	0.0197 ppm	0.0094 ppm
Concentration per Run 3	0.0111 ppm	0.5275 ppm	0.0517 ppm	0.0103 ppm	0.0507 ppm	0.0180 ppm	0.0098 ppm
Recovery Percentage 1	98.909 %	104.415 %	104.137 %	103.962 %	100.538 %	92.384 %	96.508 %
Concentration RSD	14.9 %	0.9 %	0.7 %	0.9 %	0.8 %	5.6 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	103.2553 %	101.0909 %	101.2045 %	102.1639 %	100.0579 %	101.2837 %
Concentration per Run 1	0.0050 ppm	102.6050 %	102.0284 %	102.9626 %	101.7658 %	101.2868 %	103.1262 %
Concentration per Run 2	0.0048 ppm	103.3015 %	100.9591 %	100.1248 %	103.0329 %	100.0535 %	100.1325 %
Concentration per Run 3	0.0052 ppm	103.8594 %	100.2852 %	100.5263 %	101.6929 %	98.8335 %	100.5924 %
Recovery Percentage 1	99.939 %						
Concentration RSD	3.7 %	0.6 %	0.9 %	1.5 %	0.7 %	1.2 %	1.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: LLOQ 0.005ppm As
Analysis started at: 6/20/2024 6:48:27 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	0.0038 ppm	0.0042 ppm	0.0039 ppm	0.0051 ppm	0.0049 ppm	0.0139 ppm
Concentration per Run 1	0.0053 ppm	0.0061 ppm	0.0041 ppm	0.0049 ppm	0.0053 ppm	0.0049 ppm	0.0139 ppm
Concentration per Run 2	0.0048 ppm	0.0077 ppm	0.0042 ppm	0.0042 ppm	0.0050 ppm	0.0049 ppm	0.0171 ppm
Concentration per Run 3	0.0055 ppm	-0.0024 ppm	0.0042 ppm	0.0027 ppm	0.0050 ppm	0.0049 ppm	0.0106 ppm
Recovery Percentage 1	104.152 %	0.000 %	83.339 %	0.000 %	0.000 %	98.098 %	0.000 %
Concentration RSD	7.2 %	142.5 %	2.2 %	29.8 %	3.3 %	0.8 %	23.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.0045 ppm	0.0050 ppm	0.0048 ppm	0.0070 ppm	0.0393 ppm	0.0050 ppm
Concentration per Run 1	0.0045 ppm	0.0046 ppm	0.0050 ppm	0.0049 ppm	0.0070 ppm	0.0254 ppm	0.0040 ppm
Concentration per Run 2	0.0047 ppm	0.0044 ppm	0.0045 ppm	0.0045 ppm	0.0070 ppm	0.0391 ppm	0.0060 ppm
Concentration per Run 3	0.0045 ppm	0.0046 ppm	0.0056 ppm	0.0050 ppm	0.0068 ppm	0.0534 ppm	0.0050 ppm
Recovery Percentage 1	91.260 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	
Concentration RSD	2.1 %	2.9 %	10.0 %	4.7 %	1.5 %	35.6 %	20.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0052 ppm	0.0047 ppm	0.0058 ppm	0.0992 ppm	0.0054 ppm	0.0047 ppm	0.0039 ppm
Concentration per Run 1	0.0062 ppm	0.0046 ppm	0.0055 ppm	0.1013 ppm	0.0056 ppm	0.0045 ppm	0.0062 ppm
Concentration per Run 2	0.0063 ppm	0.0048 ppm	0.0060 ppm	0.0989 ppm	0.0050 ppm	0.0042 ppm	0.0032 ppm
Concentration per Run 3	0.0031 ppm	0.0046 ppm	0.0058 ppm	0.0973 ppm	0.0055 ppm	0.0053 ppm	0.0025 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	35.2 %	2.5 %	4.4 %	2.0 %	6.0 %	12.6 %	50.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0065 ppm	0.0615 ppm	0.0053 ppm	0.0051 ppm	0.0046 ppm	0.0037 ppm	0.0044 ppm
Concentration per Run 1	0.0064 ppm	0.0475 ppm	0.0050 ppm	0.0051 ppm	0.0049 ppm	0.0020 ppm	0.0045 ppm
Concentration per Run 2	0.0061 ppm	0.0519 ppm	0.0046 ppm	0.0051 ppm	0.0046 ppm	0.0051 ppm	0.0043 ppm
Concentration per Run 3	0.0068 ppm	0.0850 ppm	0.0063 ppm	0.0050 ppm	0.0045 ppm	0.0040 ppm	0.0044 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	6.1 %	33.3 %	17.3 %	1.2 %	4.5 %	41.7 %	3.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0057 ppm	104.2690 %	104.2950 %	103.2739 %	103.7407 %	103.8837 %	103.2025 %
Concentration per Run 1	0.0058 ppm	104.9578 %	106.0836 %	103.9811 %	104.3242 %	105.4700 %	103.7170 %
Concentration per Run 2	0.0058 ppm	104.3583 %	104.1086 %	103.6316 %	104.0681 %	103.7463 %	103.9612 %
Concentration per Run 3	0.0057 ppm	103.4909 %	102.6927 %	102.2091 %	102.8298 %	102.4347 %	101.9293 %
Recovery Percentage 1	114.939 %						
Concentration RSD	1.5 %	0.7 %	1.6 %	0.9 %	0.8 %	1.5 %	1.1 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: zLLOQ 0.01ppm
Analysis started at: 6/20/2024 6:52:11 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0099 ppm	0.0133 ppm	0.0099 ppm	0.0098 ppm	0.0103 ppm	0.0100 ppm	0.0178 ppm
Concentration per Run 1	0.0101 ppm	0.0141 ppm	0.0089 ppm	0.0106 ppm	0.0100 ppm	0.0099 ppm	0.0210 ppm
Concentration per Run 2	0.0096 ppm	0.0222 ppm	0.0103 ppm	0.0083 ppm	0.0105 ppm	0.0100 ppm	0.0189 ppm
Concentration per Run 3	0.0101 ppm	0.0035 ppm	0.0105 ppm	0.0104 ppm	0.0103 ppm	0.0101 ppm	0.0135 ppm
Recovery Percentage 1	0.000 %	0.000 %	98.930 %	97.601 %	102.983 %	0.000 %	0.000 %
Concentration RSD	3.1 %	70.5 %	8.6 %	13.0 %	2.6 %	0.7 %	21.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0097 ppm	0.0104 ppm	0.0097 ppm	0.0100 ppm	0.0123 ppm	0.1015 ppm	0.0096 ppm
Concentration per Run 1	0.0096 ppm	0.0105 ppm	0.0098 ppm	0.0098 ppm	0.0122 ppm	0.1311 ppm	0.0094 ppm
Concentration per Run 2	0.0096 ppm	0.0106 ppm	0.0095 ppm	0.0096 ppm	0.0143 ppm	0.0966 ppm	0.0105 ppm
Concentration per Run 3	0.0099 ppm	0.0102 ppm	0.0098 ppm	0.0106 ppm	0.0103 ppm	0.0768 ppm	0.0089 ppm
Recovery Percentage 1	0.000 %	104.367 %	96.996 %	99.785 %	0.000 %	0.000 %	
Concentration RSD	1.8 %	2.2 %	1.9 %	5.1 %	16.2 %	27.1 %	9.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0096 ppm	0.0098 ppm	0.0101 ppm	0.1965 ppm	0.0104 ppm	0.0098 ppm	0.0081 ppm
Concentration per Run 1	0.0089 ppm	0.0097 ppm	0.0097 ppm	0.1957 ppm	0.0104 ppm	0.0104 ppm	0.0123 ppm
Concentration per Run 2	0.0083 ppm	0.0098 ppm	0.0103 ppm	0.1990 ppm	0.0103 ppm	0.0089 ppm	0.0047 ppm
Concentration per Run 3	0.0116 ppm	0.0099 ppm	0.0103 ppm	0.1949 ppm	0.0104 ppm	0.0100 ppm	0.0072 ppm
Recovery Percentage 1	0.000 %	97.908 %	0.000 %	0.000 %	103.681 %	97.869 %	0.000 %
Concentration RSD	18.6 %	0.9 %	3.3 %	1.1 %	0.4 %	7.8 %	47.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0086 ppm	0.1033 ppm	0.0101 ppm	0.0100 ppm	0.0097 ppm	0.0089 ppm	0.0092 ppm
Concentration per Run 1	0.0062 ppm	0.1023 ppm	0.0096 ppm	0.0100 ppm	0.0099 ppm	0.0089 ppm	0.0094 ppm
Concentration per Run 2	0.0105 ppm	0.1033 ppm	0.0111 ppm	0.0101 ppm	0.0095 ppm	0.0092 ppm	0.0090 ppm
Concentration per Run 3	0.0092 ppm	0.1041 ppm	0.0096 ppm	0.0100 ppm	0.0096 ppm	0.0086 ppm	0.0093 ppm
Recovery Percentage 1	86.064 %	0.000 %	100.997 %	100.266 %	96.592 %	88.962 %	92.164 %
Concentration RSD	25.2 %	0.9 %	8.4 %	0.3 %	2.0 %	3.6 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0109 ppm	102.7041 %	102.0801 %	100.9121 %	102.4750 %	101.5537 %	101.2069 %
Concentration per Run 1	0.0111 ppm	103.0155 %	102.6674 %	100.4684 %	102.8198 %	102.0936 %	100.7977 %
Concentration per Run 2	0.0109 ppm	102.7960 %	102.5373 %	100.7019 %	102.3502 %	102.1155 %	100.9756 %
Concentration per Run 3	0.0105 ppm	102.3008 %	101.0357 %	101.5662 %	102.2551 %	100.4519 %	101.8475 %
Recovery Percentage 1	108.675 %						
Concentration RSD	2.7 %	0.4 %	0.9 %	0.6 %	0.3 %	0.9 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: ICSA
Analysis started at: 6/20/2024 6:56:54 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0047 ppm	530.9160 ppm	-0.0037 ppm	-0.0108 ppm	0.0024 ppm	0.0001 ppm	480.6658 ppm
Concentration per Run 1	-0.0052 ppm	530.2304 ppm	-0.0030 ppm	-0.0076 ppm	0.0023 ppm	0.0000 ppm	480.6969 ppm
Concentration per Run 2	-0.0044 ppm	528.8871 ppm	-0.0103 ppm	-0.0129 ppm	0.0024 ppm	0.0000 ppm	479.9037 ppm
Concentration per Run 3	-0.0044 ppm	533.6305 ppm	0.0020 ppm	-0.0119 ppm	0.0024 ppm	0.0001 ppm	481.3967 ppm
Recovery Percentage 1	-67.069 %		-74.936 %	-35.947 %	23.893 %	1.580 %	
Concentration RSD	10.2 %	0.5 %	164.1 %	25.7 %	3.0 %	78.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0006 ppm	0.0003 ppm	-0.0090 ppm	194.1210 ppm	-0.0443 ppm	-0.0016 ppm
Concentration per Run 1	-0.0004 ppm	-0.0010 ppm	0.0001 ppm	-0.0092 ppm	194.0468 ppm	-0.0475 ppm	-0.0005 ppm
Concentration per Run 2	-0.0009 ppm	-0.0003 ppm	0.0001 ppm	-0.0091 ppm	193.7452 ppm	-0.0588 ppm	-0.0019 ppm
Concentration per Run 3	-0.0006 ppm	-0.0005 ppm	0.0006 ppm	-0.0088 ppm	194.5709 ppm	-0.0267 ppm	-0.0023 ppm
Recovery Percentage 1	-12.749 %	-3.103 %	2.945 %	-90.259 %		-1.773 %	-32.009 %
Concentration RSD	36.8 %	51.6 %	101.5 %	2.7 %	0.2 %	36.8 %	59.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	480.1766 ppm	-0.0008 ppm	-0.0016 ppm	0.0085 ppm	-0.0008 ppm	0.0029 ppm	-0.0113 ppm
Concentration per Run 1	480.7258 ppm	-0.0008 ppm	-0.0009 ppm	0.0036 ppm	-0.0014 ppm	0.0009 ppm	-0.0086 ppm
Concentration per Run 2	478.3038 ppm	-0.0008 ppm	-0.0029 ppm	0.0087 ppm	-0.0005 ppm	0.0053 ppm	-0.0129 ppm
Concentration per Run 3	481.5001 ppm	-0.0007 ppm	-0.0010 ppm	0.0132 ppm	-0.0003 ppm	0.0025 ppm	-0.0125 ppm
Recovery Percentage 1		-7.554 %	-3.220 %	0.425 %	-3.014 %	28.596 %	-22.697 %
Concentration RSD	0.3 %	4.1 %	70.0 %	56.8 %	80.1 %	77.7 %	21.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0074 ppm	0.0148 ppm	-0.0008 ppm	0.0004 ppm	0.0026 ppm	0.0038 ppm	0.0015 ppm
Concentration per Run 1	0.0116 ppm	0.0157 ppm	0.0001 ppm	0.0004 ppm	0.0025 ppm	0.0041 ppm	0.0017 ppm
Concentration per Run 2	0.0080 ppm	0.0119 ppm	-0.0001 ppm	0.0003 ppm	0.0026 ppm	0.0042 ppm	0.0010 ppm
Concentration per Run 3	0.0026 ppm	0.0169 ppm	-0.0025 ppm	0.0005 ppm	0.0027 ppm	0.0030 ppm	0.0018 ppm
Recovery Percentage 1	73.977 %	2.965 %	-1.613 %	4.065 %	25.991 %	18.845 %	14.876 %
Concentration RSD	61.2 %	17.7 %	178.9 %	34.5 %	2.4 %	16.6 %	31.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	86.3123 %	95.5596 %	72.3608 %	84.7032 %	94.4838 %	83.9879 %
Concentration per Run 1	-0.0008 ppm	86.0016 %	95.3031 %	72.9150 %	84.2878 %	94.3700 %	84.4896 %
Concentration per Run 2	-0.0008 ppm	87.0028 %	94.4179 %	72.1969 %	85.2397 %	93.2247 %	83.8292 %
Concentration per Run 3	-0.0009 ppm	85.9325 %	96.9576 %	71.9704 %	84.5820 %	95.8568 %	83.6448 %
Recovery Percentage 1	-15.951 %						
Concentration RSD	9.1 %	0.7 %	1.3 %	0.7 %	0.6 %	1.4 %	0.5 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: LDR 500 Fe pass _IEC +Cr +Se
Analysis started at: 6/20/2024 7:00:33 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	0.0173 ppm	-0.0013 ppm	-0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 1	0.0011 ppm	0.0199 ppm	-0.0021 ppm	0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 2	0.0020 ppm	0.0140 ppm	-0.0020 ppm	-0.0025 ppm	0.0005 ppm	0.0000 ppm	0.0128 ppm
Concentration per Run 3	-0.0001 ppm	0.0180 ppm	0.0001 ppm	0.0007 ppm	0.0008 ppm	0.0000 ppm	0.0132 ppm
Concentration RSD	108.2 %	17.4 %	90.1 %	1,101.7 %	27.6 %	67.1 %	8.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0032 ppm	0.0009 ppm	-0.0024 ppm	478.2372 ppm	-0.0901 ppm	-0.0006 ppm
Concentration per Run 1	-0.0003 ppm	-0.0038 ppm	0.0008 ppm	-0.0021 ppm	479.3529 ppm	-0.0820 ppm	-0.0011 ppm
Concentration per Run 2	-0.0002 ppm	-0.0025 ppm	0.0012 ppm	-0.0028 ppm	479.0434 ppm	-0.1188 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0034 ppm	0.0007 ppm	-0.0021 ppm	476.3154 ppm	-0.0697 ppm	-0.0008 ppm
Concentration RSD	59.5 %	20.0 %	28.8 %	17.5 %	0.3 %	28.3 %	113.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0485 ppm	-0.0028 ppm	-0.0030 ppm	-0.0030 ppm	-0.0005 ppm	-0.0100 ppm	-0.0059 ppm
Concentration per Run 1	0.0496 ppm	-0.0031 ppm	-0.0024 ppm	-0.0040 ppm	-0.0011 ppm	-0.0094 ppm	-0.0053 ppm
Concentration per Run 2	0.0468 ppm	-0.0028 ppm	-0.0033 ppm	-0.0011 ppm	0.0004 ppm	-0.0103 ppm	-0.0055 ppm
Concentration per Run 3	0.0492 ppm	-0.0026 ppm	-0.0034 ppm	-0.0038 ppm	-0.0009 ppm	-0.0104 ppm	-0.0068 ppm
Concentration RSD	3.1 %	7.7 %	16.9 %	54.4 %	158.2 %	5.6 %	14.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0031 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0008 ppm	0.0025 ppm
Concentration per Run 1	-0.0015 ppm	-0.0069 ppm	0.0022 ppm	0.0006 ppm	0.0001 ppm	0.0010 ppm	0.0026 ppm
Concentration per Run 2	0.0016 ppm	0.0000 ppm	-0.0005 ppm	0.0005 ppm	-0.0002 ppm	0.0012 ppm	0.0024 ppm
Concentration per Run 3	0.0006 ppm	-0.0025 ppm	0.0007 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm	0.0026 ppm
Concentration RSD	687.2 %	112.9 %	168.1 %	17.4 %	743.8 %	61.2 %	5.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	99.5821 %	101.1086 %	89.8783 %	98.5961 %	99.8484 %	97.5540 %
Concentration per Run 1	-0.0003 ppm	99.1949 %	101.0731 %	90.6508 %	98.7032 %	99.8307 %	98.2527 %
Concentration per Run 2	0.0001 ppm	99.5542 %	100.5481 %	89.0414 %	98.6583 %	99.4066 %	96.8263 %
Concentration per Run 3	-0.0001 ppm	99.9973 %	101.7048 %	89.9426 %	98.4269 %	100.3078 %	97.5831 %
Concentration RSD	160.1 %	0.4 %	0.6 %	0.9 %	0.2 %	0.5 %	0.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: LDR 1000 Ca pass _IEC -As +Cd +Se
Analysis started at: 6/20/2024 7:04:01 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0086 ppm	0.0008 ppm	0.0026 ppm	0.0012 ppm	0.0000 ppm	956.7068 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	0.0020 ppm	0.0015 ppm	0.0013 ppm	0.0000 ppm	956.5178 ppm
Concentration per Run 2	-0.0004 ppm	0.0167 ppm	-0.0028 ppm	0.0036 ppm	0.0010 ppm	0.0001 ppm	958.6197 ppm
Concentration per Run 3	-0.0009 ppm	0.0090 ppm	0.0031 ppm	0.0028 ppm	0.0012 ppm	0.0000 ppm	954.9830 ppm
Concentration RSD	40.0 %	96.3 %	415.0 %	41.8 %	10.2 %	258.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0045 ppm	0.0001 ppm	0.0005 ppm	0.0009 ppm	0.0182 ppm	-0.0131 ppm	-0.0005 ppm
Concentration per Run 1	0.0044 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0177 ppm	-0.0218 ppm	-0.0001 ppm
Concentration per Run 2	0.0046 ppm	0.0001 ppm	0.0006 ppm	0.0012 ppm	0.0199 ppm	-0.0230 ppm	-0.0001 ppm
Concentration per Run 3	0.0046 ppm	0.0003 ppm	0.0007 ppm	0.0008 ppm	0.0170 ppm	0.0055 ppm	-0.0012 ppm
Concentration RSD	1.7 %	121.6 %	68.0 %	36.7 %	8.3 %	122.8 %	125.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0001 ppm	0.0002 ppm	-0.0059 ppm	0.0006 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0124 ppm	0.0005 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 2	0.0026 ppm	0.0002 ppm	0.0003 ppm	-0.0022 ppm	0.0004 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0005 ppm	0.0000 ppm	-0.0002 ppm	-0.0032 ppm	0.0008 ppm	0.0014 ppm	-0.0017 ppm
Concentration RSD	106.3 %	215.6 %	204.0 %	94.9 %	37.9 %	266.8 %	591.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0013 ppm	0.0050 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 1	-0.0009 ppm	-0.0012 ppm	-0.0017 ppm	-0.0012 ppm	0.0048 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 2	0.0042 ppm	0.0009 ppm	0.0006 ppm	-0.0014 ppm	0.0050 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	-0.0030 ppm	0.0016 ppm	0.0008 ppm	-0.0013 ppm	0.0050 ppm	-0.0021 ppm	0.0003 ppm
Concentration RSD	3,244.7 %	322.9 %	1,800.1 %	5.2 %	2.4 %	847.3 %	44.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	91.2775 %	96.2985 %	78.3343 %	90.4355 %	95.8234 %	88.3233 %
Concentration per Run 1	0.0023 ppm	91.0538 %	95.7752 %	78.4937 %	90.2208 %	95.0923 %	88.2008 %
Concentration per Run 2	0.0022 ppm	92.0817 %	95.7971 %	78.1214 %	91.3128 %	95.5000 %	88.0640 %
Concentration per Run 3	0.0020 ppm	90.6970 %	97.3232 %	78.3879 %	89.7729 %	96.8780 %	88.7050 %
Concentration RSD	9.1 %	0.8 %	0.9 %	0.2 %	0.9 %	1.0 %	0.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: SIC Multi
Analysis started at: 6/20/2024 7:07:30 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0101 ppm	-0.0002 ppm	0.0040 ppm	0.0003 ppm	-0.0004 ppm	0.0038 ppm
Concentration per Run 1	-0.0003 ppm	0.0178 ppm	-0.0004 ppm	0.0031 ppm	0.0004 ppm	-0.0005 ppm	0.0041 ppm
Concentration per Run 2	-0.0005 ppm	0.0085 ppm	0.0012 ppm	0.0036 ppm	0.0002 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 3	-0.0005 ppm	0.0040 ppm	-0.0015 ppm	0.0053 ppm	0.0002 ppm	-0.0002 ppm	0.0062 ppm
Recovery Percentage 1	-6.297 %	10.083 %	-4.746 %	13.287 %	2.512 %	-9.723 %	3.801 %
Concentration RSD	30.8 %	70.1 %	562.8 %	28.1 %	48.0 %	42.8 %	66.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0042 ppm	**19.7422 ppm**	-0.0019 ppm	0.0063 ppm	-0.0242 ppm	0.0001 ppm
Concentration per Run 1	-0.0006 ppm	-0.0038 ppm	19.6585 ppm	-0.0019 ppm	0.0063 ppm	-0.0423 ppm	0.0011 ppm
Concentration per Run 2	-0.0005 ppm	-0.0031 ppm	19.7295 ppm	-0.0017 ppm	0.0065 ppm	-0.0106 ppm	-0.0013 ppm
Concentration per Run 3	-0.0005 ppm	-0.0055 ppm	19.8385 ppm	-0.0020 ppm	0.0061 ppm	-0.0197 ppm	0.0004 ppm
Recovery Percentage 1	-10.451 %	-20.778 %	197,421.696 %	-18.594 %	12.603 %	-0.968 %	1.038 %
Concentration RSD	10.0 %	29.9 %	**0.5 %**	9.5 %	3.4 %	67.5 %	2,351.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0207 ppm	**20.2907 ppm**	-0.0017 ppm	-0.0024 ppm	0.0001 ppm	-0.0005 ppm	-0.0094 ppm
Concentration per Run 1	-0.0199 ppm	20.3060 ppm	-0.0018 ppm	-0.0059 ppm	0.0011 ppm	-0.0003 ppm	-0.0093 ppm
Concentration per Run 2	-0.0225 ppm	20.4326 ppm	-0.0015 ppm	-0.0038 ppm	-0.0009 ppm	0.0003 ppm	-0.0080 ppm
Concentration per Run 3	-0.0198 ppm	20.1333 ppm	-0.0018 ppm	0.0024 ppm	0.0000 ppm	-0.0016 ppm	-0.0110 ppm
Recovery Percentage 1	-20.703 %	202,906.546 %	-3.426 %	-0.122 %	0.275 %	-5.051 %	-18.837 %
Concentration RSD	7.4 %	**0.7 %**	10.4 %	176.4 %	1,484.8 %	189.1 %	16.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0140 ppm	0.0014 ppm	0.0005 ppm	**19.4522 ppm**	-0.0046 ppm	**9.9916 ppm**
Concentration per Run 1	0.0019 ppm	-0.0327 ppm	0.0017 ppm	0.0004 ppm	19.3740 ppm	-0.0046 ppm	9.9464 ppm
Concentration per Run 2	-0.0031 ppm	0.0238 ppm	0.0012 ppm	0.0005 ppm	19.4531 ppm	-0.0059 ppm	10.0446 ppm
Concentration per Run 3	0.0015 ppm	0.0508 ppm	0.0013 ppm	0.0006 ppm	19.5296 ppm	-0.0033 ppm	9.9838 ppm
Recovery Percentage 1	0.808 %	2.794 %	2.761 %	4.857 %	194,522.323 %	-23.138 %	99,915.939 %
Concentration RSD	3,468.8 %	304.9 %	19.1 %	13.2 %	**0.4 %**	28.1 %	**0.5 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0009 ppm	102.3671 %	102.5198 %	105.2542 %	101.2350 %	100.8125 %	100.0262 %
Concentration per Run 1	-0.0009 ppm	102.5907 %	101.8189 %	105.5676 %	100.9789 %	100.3064 %	100.2129 %
Concentration per Run 2	-0.0009 ppm	101.8114 %	102.0714 %	105.5878 %	101.4454 %	100.4670 %	100.3294 %
Concentration per Run 3	-0.0009 ppm	102.6992 %	103.6692 %	104.6072 %	101.2808 %	101.6642 %	99.5363 %
Recovery Percentage 1	-18.193 %						
Concentration RSD	4.5 %	0.5 %	1.0 %	0.5 %	0.2 %	0.7 %	0.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: IEC 20 Ti +Si +Tl
Analysis started at: 6/20/2024 7:11:01 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0013 ppm	0.0002 ppm	-0.0002 ppm	0.0098 ppm
Concentration per Run 1	-0.0012 ppm	-0.0005 ppm	0.0007 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0082 ppm
Concentration per Run 2	-0.0007 ppm	0.0003 ppm	-0.0011 ppm	0.0033 ppm	0.0003 ppm	-0.0002 ppm	0.0116 ppm
Concentration per Run 3	-0.0005 ppm	0.0012 ppm	0.0005 ppm	0.0011 ppm	0.0001 ppm	-0.0005 ppm	0.0097 ppm
Concentration RSD	46.7 %	264.0 %	22,994.2 %	138.8 %	64.3 %	149.6 %	17.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0027 ppm	0.0016 ppm	-0.0008 ppm	0.0024 ppm	-0.0168 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0034 ppm	0.0020 ppm	-0.0012 ppm	0.0018 ppm	-0.0343 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0024 ppm	0.0016 ppm	-0.0008 ppm	0.0031 ppm	-0.0189 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0023 ppm	0.0012 ppm	-0.0004 ppm	0.0024 ppm	0.0028 ppm	0.0000 ppm
Concentration RSD	220.7 %	21.6 %	24.4 %	46.3 %	28.5 %	111.1 %	105.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0150 ppm	-0.0001 ppm	0.0005 ppm	-0.0086 ppm	-0.0006 ppm	-0.0006 ppm	0.0031 ppm
Concentration per Run 1	-0.0130 ppm	0.0001 ppm	0.0008 ppm	-0.0075 ppm	-0.0005 ppm	-0.0010 ppm	0.0043 ppm
Concentration per Run 2	-0.0160 ppm	0.0001 ppm	0.0000 ppm	-0.0121 ppm	-0.0013 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0160 ppm	-0.0005 ppm	0.0007 ppm	-0.0063 ppm	0.0002 ppm	-0.0009 ppm	0.0049 ppm
Concentration RSD	11.7 %	361.5 %	89.2 %	35.3 %	137.7 %	99.0 %	79.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0235 ppm	0.0020 ppm	0.0001 ppm	19.5262 ppm	-0.0006 ppm	-0.0010 ppm
Concentration per Run 1	-0.0021 ppm	-0.0724 ppm	0.0025 ppm	0.0001 ppm	19.5584 ppm	-0.0003 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0177 ppm	0.0017 ppm	0.0001 ppm	19.4803 ppm	-0.0013 ppm	-0.0011 ppm
Concentration per Run 3	-0.0012 ppm	0.0197 ppm	0.0019 ppm	0.0001 ppm	19.5398 ppm	-0.0003 ppm	-0.0008 ppm
Concentration RSD	98.3 %	197.4 %	19.4 %	7.5 %	0.2 %	90.7 %	15.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	103.2178 %	101.3350 %	106.5623 %	102.3970 %	99.9947 %	100.2150 %
Concentration per Run 1	0.0007 ppm	104.2140 %	102.0493 %	107.6935 %	103.8239 %	100.3013 %	100.7316 %
Concentration per Run 2	0.0008 ppm	102.5327 %	100.6342 %	105.8824 %	101.5118 %	99.6205 %	99.6018 %
Concentration per Run 3	0.0008 ppm	102.9068 %	101.3215 %	106.1110 %	101.8553 %	100.0623 %	100.3117 %
Concentration RSD	12.5 %	0.9 %	0.7 %	0.9 %	1.2 %	0.3 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: LDR Check
Analysis started at: 6/20/2024 7:14:30 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	0.1373 ppm	23.6108 ppm	19.5967 ppm	20.2509 ppm	5.1722 ppm	0.0234 ppm
Concentration per Run 1	0.0013 ppm	0.1416 ppm	22.8845 ppm	19.5308 ppm	20.1630 ppm	5.1549 ppm	0.0193 ppm
Concentration per Run 2	0.0006 ppm	0.1391 ppm	24.2363 ppm	19.7071 ppm	20.3014 ppm	5.1807 ppm	0.0257 ppm
Concentration per Run 3	0.0019 ppm	0.1313 ppm	23.7117 ppm	19.5522 ppm	20.2883 ppm	5.1811 ppm	0.0251 ppm
Recovery Percentage 1			118.054 %	97.984 %	101.255 %		
Concentration RSD	52.4 %	3.9 %	2.9 %	0.5 %	0.4 %	0.3 %	15.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	5.0328 ppm	5.0521 ppm	0.0049 ppm	19.1523 ppm	0.0367 ppm	539.0798 ppm	19.5034 ppm
Concentration per Run 1	5.0484 ppm	5.0943 ppm	0.0053 ppm	19.3247 ppm	0.0393 ppm	534.0052 ppm	19.4304 ppm
Concentration per Run 2	5.0071 ppm	5.0353 ppm	0.0052 ppm	19.1758 ppm	0.0357 ppm	540.8158 ppm	19.5611 ppm
Concentration per Run 3	5.0430 ppm	5.0267 ppm	0.0042 ppm	18.9564 ppm	0.0351 ppm	542.4185 ppm	19.5186 ppm
Recovery Percentage 1	100.656 %	101.042 %		95.761 %		107.816 %	
Concentration RSD	0.4 %	0.7 %	12.6 %	1.0 %	6.2 %	0.8 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0041 ppm	0.0043 ppm	5.0686 ppm	444.2112 ppm	9.8842 ppm	53.0513 ppm	4.9942 ppm
Concentration per Run 1	-0.0015 ppm	0.0042 ppm	4.9615 ppm	441.5092 ppm	9.8122 ppm	51.4724 ppm	5.0051 ppm
Concentration per Run 2	-0.0050 ppm	0.0043 ppm	5.0893 ppm	445.3253 ppm	9.9589 ppm	54.2750 ppm	4.9955 ppm
Concentration per Run 3	-0.0059 ppm	0.0042 ppm	5.1549 ppm	445.7991 ppm	9.8816 ppm	53.4065 ppm	4.9821 ppm
Recovery Percentage 1		0.000 %	101.371 %	88.842 %	98.842 %	106.103 %	99.885 %
Concentration RSD	56.6 %	0.8 %	1.9 %	0.5 %	0.7 %	2.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.4586 ppm	21.8177 ppm	7.7850 ppm	5.0362 ppm	0.0331 ppm	4.8517 ppm	-0.0013 ppm
Concentration per Run 1	5.2988 ppm	21.6240 ppm	7.7728 ppm	5.0189 ppm	0.0362 ppm	4.7051 ppm	-0.0021 ppm
Concentration per Run 2	5.5974 ppm	21.8634 ppm	7.8362 ppm	5.0433 ppm	0.0331 ppm	4.9676 ppm	-0.0009 ppm
Concentration per Run 3	5.4797 ppm	21.9658 ppm	7.7461 ppm	5.0464 ppm	0.0300 ppm	4.8823 ppm	-0.0009 ppm
Recovery Percentage 1	109.173 %	109.089 %	77.850 %	100.724 %	0.000 %	97.034 %	0.000 %
Concentration RSD	2.8 %	0.8 %	0.6 %	0.3 %	9.4 %	2.8 %	53.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	20.1278 ppm	91.5818 %	98.0549 %	80.7912 %	89.7609 %	96.6735 %	87.8508 %
Concentration per Run 1	19.9212 ppm	91.2432 %	98.9775 %	83.3136 %	89.5323 %	97.4235 %	90.6134 %
Concentration per Run 2	20.3411 ppm	91.3376 %	97.8051 %	79.4593 %	89.4550 %	96.8404 %	86.4071 %
Concentration per Run 3	20.1212 ppm	92.1645 %	97.3820 %	79.6005 %	90.2953 %	95.7566 %	86.5320 %
Recovery Percentage 1	100.639 %						
Concentration RSD	1.0 %	0.6 %	0.8 %	2.7 %	0.5 %	0.9 %	2.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: LDR 500 Na
Analysis started at: 6/20/2024 7:18:01 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0008 ppm	0.0174 ppm	0.0121 ppm	0.0002 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 1	0.0002 ppm	0.0020 ppm	0.0157 ppm	0.0151 ppm	0.0003 ppm	0.0000 ppm	0.0107 ppm
Concentration per Run 2	-0.0006 ppm	0.0002 ppm	0.0210 ppm	0.0112 ppm	0.0002 ppm	0.0000 ppm	0.0158 ppm
Concentration per Run 3	-0.0008 ppm	0.0001 ppm	0.0155 ppm	0.0099 ppm	0.0001 ppm	0.0000 ppm	0.0188 ppm
Concentration RSD	145.5 %	137.1 %	17.9 %	22.3 %	33.5 %	61.5 %	26.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0048 ppm	0.1508 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0013 ppm	0.0051 ppm	0.1598 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	-0.0014 ppm	-0.0002 ppm	0.0009 ppm	0.0032 ppm	0.1518 ppm	0.0029 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0061 ppm	0.1408 ppm	0.0008 ppm
Concentration RSD	348.1 %	330.3 %	1,421.9 %	42.0 %	31.5 %	6.3 %	80.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0002 ppm	0.0712 ppm	493.2954 ppm	0.0006 ppm	0.0002 ppm	0.0417 ppm
Concentration per Run 1	-0.0016 ppm	0.0000 ppm	0.0726 ppm	495.8829 ppm	0.0007 ppm	-0.0007 ppm	0.0465 ppm
Concentration per Run 2	0.0011 ppm	-0.0003 ppm	0.0719 ppm	493.3513 ppm	0.0011 ppm	0.0009 ppm	0.0396 ppm
Concentration per Run 3	-0.0020 ppm	-0.0002 ppm	0.0692 ppm	490.6520 ppm	-0.0001 ppm	0.0003 ppm	0.0391 ppm
Concentration RSD	201.4 %	80.9 %	2.5 %	0.5 %	102.3 %	471.8 %	9.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0024 ppm	0.0051 ppm	0.0001 ppm	0.0011 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0028 ppm	0.0049 ppm	0.0002 ppm	0.0009 ppm	0.0015 ppm	-0.0001 ppm
Concentration per Run 2	-0.0018 ppm	0.0026 ppm	0.0052 ppm	0.0002 ppm	0.0010 ppm	-0.0019 ppm	-0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.0017 ppm	0.0051 ppm	0.0000 ppm	0.0014 ppm	0.0014 ppm	0.0000 ppm
Concentration RSD	370.2 %	25.9 %	2.6 %	70.7 %	19.9 %	616.3 %	131.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	93.9799 %	97.9794 %	85.6994 %	92.2080 %	96.6606 %	93.7930 %
Concentration per Run 1	0.0017 ppm	94.1904 %	98.2031 %	85.3146 %	92.5092 %	97.3532 %	93.3791 %
Concentration per Run 2	0.0012 ppm	93.5211 %	98.7562 %	86.2102 %	92.1536 %	97.8056 %	94.5892 %
Concentration per Run 3	0.0012 ppm	94.2283 %	96.9791 %	85.5733 %	91.9613 %	94.8229 %	93.4107 %
Concentration RSD	21.7 %	0.4 %	0.9 %	0.5 %	0.3 %	1.7 %	0.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: LDR 20 As
Analysis started at: 6/20/2024 7:45:43 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0081 ppm	20.0696 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run 1	-0.0003 ppm	0.0075 ppm	20.0590 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0141 ppm
Concentration per Run 2	0.0004 ppm	0.0098 ppm	20.1493 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0130 ppm
Concentration per Run 3	-0.0006 ppm	0.0071 ppm	20.0005 ppm	0.0028 ppm	0.0002 ppm	0.0000 ppm	0.0076 ppm
Concentration RSD	311.0 %	18.5 %	0.4 %	44.9 %	65.0 %	154.6 %	30.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0024 ppm	-0.0263 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm	-0.0494 ppm	0.0004 ppm
Concentration per Run 2	-0.0008 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0042 ppm	-0.0291 ppm	0.0005 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	-0.0001 ppm	-0.0005 ppm	0.0010 ppm	-0.0006 ppm	-0.0006 ppm
Concentration RSD	40.9 %	818.1 %	436.6 %	253.8 %	65.5 %	93.0 %	583.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0003 ppm	0.0030 ppm	0.0141 ppm	-0.0004 ppm	0.0002 ppm	0.0105 ppm
Concentration per Run 1	0.0019 ppm	-0.0003 ppm	0.0034 ppm	0.0157 ppm	0.0001 ppm	0.0011 ppm	0.0120 ppm
Concentration per Run 2	-0.0029 ppm	-0.0002 ppm	0.0029 ppm	0.0139 ppm	-0.0005 ppm	0.0004 ppm	0.0094 ppm
Concentration per Run 3	-0.0032 ppm	-0.0003 ppm	0.0026 ppm	0.0127 ppm	-0.0009 ppm	-0.0010 ppm	0.0102 ppm
Concentration RSD	201.8 %	36.7 %	12.2 %	10.8 %	126.4 %	699.6 %	12.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0023 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 1	-0.0019 ppm	0.0020 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 2	0.0016 ppm	0.0039 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	-0.0016 ppm	-0.0004 ppm
Concentration per Run 3	0.0012 ppm	0.0009 ppm	-0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0007 ppm	-0.0001 ppm
Concentration RSD	655.3 %	67.7 %	76.7 %	93.2 %	113.1 %	151.6 %	116.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	101.2193 %	101.2801 %	99.6538 %	100.1829 %	100.3215 %	99.0978 %
Concentration per Run 1	0.0006 ppm	99.8886 %	100.4637 %	100.1892 %	98.8160 %	100.3369 %	99.8063 %
Concentration per Run 2	0.0006 ppm	100.9231 %	102.0375 %	99.6028 %	99.0639 %	100.7762 %	99.1692 %
Concentration per Run 3	0.0006 ppm	102.8461 %	101.3391 %	99.1693 %	102.6689 %	99.8514 %	98.3177 %
Concentration RSD	6.6 %	1.5 %	0.8 %	0.5 %	2.2 %	0.5 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCV
Analysis started at: 6/20/2024 7:56:35 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5090 ppm	0.5036 ppm	0.4926 ppm	0.5015 ppm	0.5163 ppm	0.5283 ppm	0.4993 ppm
Concentration per Run 1	0.5096 ppm	0.5005 ppm	0.4932 ppm	0.5025 ppm	0.5121 ppm	0.5255 ppm	0.4980 ppm
Concentration per Run 2	0.5095 ppm	0.5011 ppm	0.4912 ppm	0.5029 ppm	0.5182 ppm	0.5291 ppm	0.5026 ppm
Concentration per Run 3	0.5080 ppm	0.5093 ppm	0.4934 ppm	0.4992 ppm	0.5185 ppm	0.5305 ppm	0.4973 ppm
Recovery Percentage 1	101.810 %	100.726 %	98.519 %	100.309 %	103.259 %	105.666 %	99.864 %
Concentration RSD	0.2 %	1.0 %	0.2 %	0.4 %	0.7 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4962 ppm	0.5106 ppm	0.4927 ppm	0.5041 ppm	0.5252 ppm	5.3141 ppm	0.6482 ppm
Concentration per Run 1	0.4922 ppm	0.5085 ppm	0.4921 ppm	0.5051 ppm	0.5249 ppm	5.2762 ppm	0.6398 ppm
Concentration per Run 2	0.4983 ppm	0.5117 ppm	0.4951 ppm	0.5057 ppm	0.5272 ppm	5.3529 ppm	0.6552 ppm
Concentration per Run 3	0.4981 ppm	0.5117 ppm	0.4908 ppm	0.5015 ppm	0.5235 ppm	5.3132 ppm	0.6495 ppm
Recovery Percentage 1	99.240 %	102.123 %	98.540 %	100.824 %	105.040 %	106.282 %	129.635 %
Concentration RSD	0.7 %	0.4 %	0.4 %	0.5 %	0.4 %	0.7 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4894 ppm	0.5014 ppm	0.5056 ppm	10.4088 ppm	0.5081 ppm	0.5022 ppm	0.5131 ppm
Concentration per Run 1	0.4877 ppm	0.4997 ppm	0.4987 ppm	10.3497 ppm	0.5096 ppm	0.5025 ppm	0.5042 ppm
Concentration per Run 2	0.4912 ppm	0.5017 ppm	0.5065 ppm	10.4144 ppm	0.5114 ppm	0.5006 ppm	0.5209 ppm
Concentration per Run 3	0.4893 ppm	0.5028 ppm	0.5114 ppm	10.4623 ppm	0.5032 ppm	0.5037 ppm	0.5143 ppm
Recovery Percentage 1	97.882 %	100.277 %	101.111 %	104.088 %	101.612 %	100.449 %	102.629 %
Concentration RSD	0.4 %	0.3 %	1.3 %	0.5 %	0.8 %	0.3 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5032 ppm	5.6690 ppm	0.5107 ppm	0.5078 ppm	0.5030 ppm	0.5089 ppm	0.4912 ppm
Concentration per Run 1	0.5028 ppm	5.6594 ppm	0.5078 ppm	0.5035 ppm	0.5006 ppm	0.5075 ppm	0.4914 ppm
Concentration per Run 2	0.5057 ppm	5.6829 ppm	0.5151 ppm	0.5090 ppm	0.5042 ppm	0.5072 ppm	0.4920 ppm
Concentration per Run 3	0.5012 ppm	5.6647 ppm	0.5091 ppm	0.5109 ppm	0.5043 ppm	0.5119 ppm	0.4901 ppm
Recovery Percentage 1	100.647 %	107.981 %	102.133 %	101.562 %	100.602 %	101.775 %	98.234 %
Concentration RSD	0.4 %	0.2 %	0.8 %	0.8 %	0.4 %	0.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5033 ppm	100.7262 %	100.8834 %	98.1457 %	99.8016 %	99.8831 %	98.2310 %
Concentration per Run 1	0.5025 ppm	101.3338 %	101.0174 %	97.7581 %	100.9568 %	100.0393 %	97.9687 %
Concentration per Run 2	0.5051 ppm	100.0679 %	99.9680 %	98.8238 %	99.3806 %	99.6750 %	98.8826 %
Concentration per Run 3	0.5025 ppm	100.7768 %	101.6648 %	97.8553 %	99.0676 %	99.9350 %	97.8418 %
Recovery Percentage 1	100.670 %						
Concentration RSD	0.3 %	0.6 %	0.8 %	0.6 %	1.0 %	0.2 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCB
Analysis started at: 6/20/2024 8:00:18 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0032 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	0.0002 ppm	-0.0061 ppm	0.0018 ppm	-0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	-0.0019 ppm	-0.0010 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 3	0.0000 ppm	-0.0016 ppm	-0.0009 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0057 ppm
Recovery Percentage 1	2.226 %	-3.204 %	-0.822 %	-0.119 %	1.820 %	-0.108 %	3.121 %
Concentration RSD	69.2 %	79.0 %	3,778.1 %	3,863.3 %	33.6 %	749.2 %	89.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	-0.0038 ppm	-0.0012 ppm
Concentration per Run 1	-0.0001 ppm	0.0010 ppm	0.0006 ppm	0.0003 ppm	0.0010 ppm	-0.0043 ppm	-0.0023 ppm
Concentration per Run 2	-0.0002 ppm	-0.0007 ppm	-0.0002 ppm	0.0006 ppm	0.0006 ppm	-0.0206 ppm	-0.0014 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0014 ppm	0.0135 ppm	0.0000 ppm
Recovery Percentage 1	-2.205 %	0.922 %	1.907 %	3.825 %	1.980 %	-0.152 %	-24.402 %
Concentration RSD	64.5 %	454.2 %	205.0 %	43.2 %	38.6 %	449.0 %	95.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0005 ppm	-0.0002 ppm	0.0057 ppm	-0.0007 ppm	-0.0008 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 1	-0.0013 ppm	-0.0003 ppm	0.0055 ppm	0.0003 ppm	-0.0004 ppm	-0.0005 ppm	0.0060 ppm
Concentration per Run 2	-0.0003 ppm	0.0000 ppm	0.0056 ppm	0.0014 ppm	-0.0018 ppm	-0.0003 ppm	0.0048 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0058 ppm	-0.0039 ppm	-0.0003 ppm	0.0007 ppm	0.0038 ppm
Recovery Percentage 1	-0.512 %	-1.787 %	11.328 %	-0.037 %	-3.374 %	-0.250 %	9.761 %
Concentration RSD	138.9 %	72.5 %	2.4 %	379.9 %	99.1 %	2,675.2 %	22.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	-0.0045 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0028 ppm	-0.0052 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0020 ppm	0.0002 ppm
Concentration per Run 2	-0.0015 ppm	-0.0049 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	-0.0018 ppm	0.0002 ppm
Concentration per Run 3	-0.0012 ppm	-0.0034 ppm	0.0019 ppm	0.0002 ppm	-0.0001 ppm	-0.0008 ppm	-0.0001 ppm
Recovery Percentage 1	0.604 %	-0.901 %	1.571 %	1.303 %	0.538 %	-7.715 %	1.069 %
Concentration RSD	4,006.3 %	22.0 %	119.1 %	31.1 %	364.7 %	42.6 %	151.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	101.8458 %	99.9018 %	99.1143 %	102.0649 %	99.4446 %	99.6438 %
Concentration per Run 1	0.0000 ppm	102.8502 %	99.4438 %	99.4576 %	102.7506 %	99.1844 %	100.3078 %
Concentration per Run 2	0.0001 ppm	101.2675 %	100.3522 %	99.0928 %	101.9268 %	99.6070 %	99.3394 %
Concentration per Run 3	0.0001 ppm	101.4198 %	99.9093 %	98.7925 %	101.5174 %	99.5424 %	99.2841 %
Recovery Percentage 1	1.337 %						
Concentration RSD	28.0 %	0.9 %	0.5 %	0.3 %	0.6 %	0.2 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1935943-1 WG1935943
Analysis started at: 6/20/2024 8:18:14 AM
Rack 1
Vial 8
Comment rr Be Fe K Na

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0036 ppm	0.0006 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0024 ppm	0.0011 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0015 ppm	0.0011 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 3	0.0001 ppm	0.0067 ppm	-0.0005 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0033 ppm
Recovery Percentage 1	0.116 %	3.550 %	11.293 %	1.405 %	1.009 %	0.073 %	3.204 %
Concentration RSD	1,661.7 %	79.0 %	168.0 %	166.2 %	157.7 %	792.1 %	75.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0116 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0072 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0005 ppm	-0.0006 ppm	-0.0222 ppm	-0.0003 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0053 ppm	-0.0015 ppm
Recovery Percentage 1	-0.982 %	-0.542 %	1.397 %	0.926 %	-0.483 %	-0.463 %	-12.346 %
Concentration RSD	181.3 %	408.2 %	109.4 %	365.9 %	173.4 %	80.0 %	127.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0064 ppm	0.0001 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 1	0.0015 ppm	0.0000 ppm	0.0002 ppm	-0.0065 ppm	0.0001 ppm	-0.0016 ppm	0.0005 ppm
Concentration per Run 2	-0.0004 ppm	-0.0001 ppm	0.0006 ppm	-0.0102 ppm	0.0005 ppm	-0.0003 ppm	0.0012 ppm
Concentration per Run 3	-0.0006 ppm	-0.0001 ppm	0.0006 ppm	-0.0025 ppm	-0.0004 ppm	0.0002 ppm	0.0014 ppm
Recovery Percentage 1	0.152 %	-0.764 %	0.934 %	-0.321 %	0.260 %	-5.373 %	2.007 %
Concentration RSD	786.6 %	52.5 %	53.1 %	59.8 %	736.4 %	170.3 %	48.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0065 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0030 ppm	-0.0069 ppm	-0.0013 ppm	0.0000 ppm	-0.0002 ppm	-0.0011 ppm	-0.0004 ppm
Concentration per Run 2	0.0005 ppm	-0.0068 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	-0.0006 ppm	-0.0059 ppm	-0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	-10.699 %	-1.307 %	-1.244 %	0.305 %	-2.365 %	-3.078 %	-1.362 %
Concentration RSD	168.6 %	7.8 %	100.9 %	38.5 %	31.4 %	69.5 %	160.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	104.1823 %	103.7702 %	102.8074 %	104.0253 %	103.0458 %	101.9171 %
Concentration per Run 1	0.0000 ppm	103.7196 %	104.3939 %	103.5648 %	103.3041 %	103.5270 %	102.2451 %
Concentration per Run 2	0.0001 ppm	104.2188 %	103.5333 %	102.1160 %	104.7896 %	102.4861 %	101.4333 %
Concentration per Run 3	0.0001 ppm	104.6086 %	103.3833 %	102.7414 %	103.9823 %	103.1243 %	102.0729 %
Recovery Percentage 1	1.886 %						
Concentration RSD	47.8 %	0.4 %	0.5 %	0.7 %	0.7 %	0.5 %	0.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1935943-2 WG1935943
Analysis started at: 6/20/2024 8:21:58 AM
Rack 1
Vial 9
Comment rr Be Fe K Na

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0516 ppm	2.0951 ppm	0.1238 ppm	1.0201 ppm	2.1073 ppm	0.0534 ppm	10.5854 ppm
Concentration per Run 1	0.0509 ppm	2.0804 ppm	0.1226 ppm	1.0132 ppm	2.0909 ppm	0.0530 ppm	10.4722 ppm
Concentration per Run 2	0.0524 ppm	2.1262 ppm	0.1253 ppm	1.0256 ppm	2.1431 ppm	0.0543 ppm	10.7913 ppm
Concentration per Run 3	0.0515 ppm	2.0786 ppm	0.1235 ppm	1.0215 ppm	2.0879 ppm	0.0528 ppm	10.4927 ppm
Concentration RSD	1.4 %	1.3 %	1.1 %	0.6 %	1.5 %	1.6 %	1.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0546 ppm	0.5062 ppm	0.1998 ppm	0.2557 ppm	1.0665 ppm	11.0580 ppm	-0.0007 ppm
Concentration per Run 1	0.0544 ppm	0.5062 ppm	0.1996 ppm	0.2557 ppm	1.0585 ppm	10.9571 ppm	-0.0006 ppm
Concentration per Run 2	0.0546 ppm	0.5057 ppm	0.1999 ppm	0.2554 ppm	1.0827 ppm	11.2714 ppm	-0.0014 ppm
Concentration per Run 3	0.0546 ppm	0.5068 ppm	0.1999 ppm	0.2560 ppm	1.0584 ppm	10.9456 ppm	-0.0002 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.1 %	1.3 %	1.7 %	86.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2386 ppm	0.5262 ppm	0.9039 ppm	10.9791 ppm	0.5111 ppm	0.5564 ppm	0.4083 ppm
Concentration per Run 1	10.2147 ppm	0.5226 ppm	0.8870 ppm	10.8515 ppm	0.5086 ppm	0.5552 ppm	0.4014 ppm
Concentration per Run 2	10.2475 ppm	0.5339 ppm	0.9031 ppm	11.2306 ppm	0.5123 ppm	0.5598 ppm	0.4083 ppm
Concentration per Run 3	10.2534 ppm	0.5220 ppm	0.9216 ppm	10.8553 ppm	0.5126 ppm	0.5543 ppm	0.4151 ppm
Concentration RSD	0.2 %	1.3 %	1.9 %	2.0 %	0.4 %	0.5 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1257 ppm	1.0419 ppm	0.9968 ppm	1.0341 ppm	1.0281 ppm	0.1275 ppm	0.5057 ppm
Concentration per Run 1	0.1261 ppm	1.0375 ppm	0.9834 ppm	1.0264 ppm	1.0236 ppm	0.1282 ppm	0.5060 ppm
Concentration per Run 2	0.1251 ppm	1.0435 ppm	1.0000 ppm	1.0534 ppm	1.0299 ppm	0.1282 ppm	0.5049 ppm
Concentration per Run 3	0.1260 ppm	1.0447 ppm	1.0071 ppm	1.0225 ppm	1.0308 ppm	0.1261 ppm	0.5064 ppm
Concentration RSD	0.5 %	0.4 %	1.2 %	1.6 %	0.4 %	0.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5116 ppm	102.6912 %	103.1041 %	99.4675 %	101.3249 %	101.6483 %	100.2569 %
Concentration per Run 1	0.5093 ppm	103.0883 %	103.8828 %	99.5724 %	101.4734 %	100.7016 %	100.3247 %
Concentration per Run 2	0.5111 ppm	102.6956 %	100.4322 %	99.5857 %	101.3902 %	100.2760 %	100.3252 %
Concentration per Run 3	0.5143 ppm	102.2896 %	104.9973 %	99.2444 %	101.1110 %	103.9672 %	100.1210 %
Concentration RSD	0.5 %	0.4 %	2.3 %	0.2 %	0.2 %	2.0 %	0.1 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-01 WG1935943
Analysis started at: 6/20/2024 8:25:28 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0017 ppm	0.0001 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0389 ppm
Concentration per Run 1	0.0005 ppm	0.0056 ppm	-0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0370 ppm
Concentration per Run 2	0.0010 ppm	-0.0028 ppm	-0.0005 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0405 ppm
Concentration per Run 3	-0.0002 ppm	0.0022 ppm	0.0010 ppm	0.0017 ppm	0.0004 ppm	0.0000 ppm	0.0393 ppm
Concentration RSD	139.7 %	255.7 %	1,329.1 %	51.5 %	21.0 %	55.9 %	4.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0050 ppm	-0.0202 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0004 ppm	0.0005 ppm	0.0057 ppm	-0.0467 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0053 ppm	0.0101 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0006 ppm	0.0041 ppm	-0.0241 ppm	-0.0012 ppm
Concentration RSD	379.8 %	128.5 %	225.3 %	55.8 %	16.7 %	141.6 %	76.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0121 ppm	0.0000 ppm	0.0204 ppm	0.0190 ppm	-0.0004 ppm	-0.0001 ppm	0.0130 ppm
Concentration per Run 1	0.0114 ppm	0.0001 ppm	0.0198 ppm	0.0164 ppm	-0.0003 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 2	0.0106 ppm	0.0000 ppm	0.0222 ppm	0.0223 ppm	0.0006 ppm	-0.0004 ppm	0.0128 ppm
Concentration per Run 3	0.0142 ppm	-0.0001 ppm	0.0192 ppm	0.0184 ppm	-0.0016 ppm	0.0001 ppm	0.0116 ppm
Concentration RSD	15.9 %	2,908.4 %	7.8 %	16.0 %	264.9 %	306.9 %	11.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0076 ppm	0.0074 ppm	0.0004 ppm	0.0005 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	-0.0029 ppm	0.0069 ppm	0.0081 ppm	0.0005 ppm	0.0006 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.0012 ppm	0.0052 ppm	0.0077 ppm	0.0004 ppm	0.0007 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 3	-0.0022 ppm	0.0107 ppm	0.0063 ppm	0.0005 ppm	0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration RSD	164.5 %	36.9 %	13.2 %	12.6 %	37.0 %	164.0 %	163.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0130 ppm	100.3694 %	101.4058 %	101.9725 %	100.0350 %	100.6823 %	101.5337 %
Concentration per Run 1	0.0128 ppm	102.2757 %	101.8645 %	101.0355 %	101.2175 %	100.8839 %	100.7153 %
Concentration per Run 2	0.0135 ppm	96.9382 %	100.5937 %	102.1336 %	96.3878 %	99.7564 %	101.5756 %
Concentration per Run 3	0.0129 ppm	101.8944 %	101.7592 %	102.7484 %	102.4998 %	101.4065 %	102.3102 %
Concentration RSD	2.9 %	3.0 %	0.7 %	0.9 %	3.2 %	0.8 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-02 WG1935943
Analysis started at: 6/20/2024 8:28:56 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0020 ppm	-0.0006 ppm	0.0112 ppm	0.0210 ppm	0.0000 ppm	27.6713 ppm
Concentration per Run 1	0.0000 ppm	-0.0019 ppm	-0.0008 ppm	0.0100 ppm	0.0210 ppm	0.0000 ppm	27.6590 ppm
Concentration per Run 2	0.0004 ppm	0.0014 ppm	-0.0009 ppm	0.0144 ppm	0.0198 ppm	0.0000 ppm	26.0791 ppm
Concentration per Run 3	-0.0005 ppm	0.0066 ppm	-0.0001 ppm	0.0093 ppm	0.0223 ppm	0.0000 ppm	29.2757 ppm
Concentration RSD	939.2 %	210.4 %	65.5 %	24.5 %	6.0 %	508.5 %	5.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0024 ppm	0.0015 ppm	0.7886 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0024 ppm	0.0002 ppm	0.8155 ppm	-0.0001 ppm
Concentration per Run 2	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0025 ppm	0.0013 ppm	0.7291 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0023 ppm	0.0032 ppm	0.8213 ppm	-0.0002 ppm
Concentration RSD	147.2 %	60.5 %	16.3 %	2.9 %	97.9 %	6.6 %	331.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8281 ppm	0.0007 ppm	0.0034 ppm	3.7252 ppm	-0.0004 ppm	-0.0004 ppm	0.0033 ppm
Concentration per Run 1	6.8116 ppm	0.0007 ppm	0.0030 ppm	3.7282 ppm	-0.0002 ppm	0.0004 ppm	0.0026 ppm
Concentration per Run 2	6.8226 ppm	0.0006 ppm	0.0034 ppm	3.5072 ppm	-0.0002 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 3	6.8502 ppm	0.0008 ppm	0.0038 ppm	3.9401 ppm	-0.0006 ppm	-0.0016 ppm	0.0050 ppm
Concentration RSD	0.3 %	15.1 %	11.5 %	5.8 %	65.3 %	272.3 %	46.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	3.5567 ppm	0.0006 ppm	0.0773 ppm	0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0016 ppm	3.5577 ppm	-0.0004 ppm	0.0773 ppm	-0.0001 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 2	0.0022 ppm	3.5233 ppm	0.0006 ppm	0.0729 ppm	0.0002 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 3	0.0013 ppm	3.5891 ppm	0.0015 ppm	0.0818 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm
Concentration RSD	28.8 %	0.9 %	166.1 %	5.8 %	183.7 %	187.2 %	1,176.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	102.3938 %	101.0393 %	99.3960 %	102.1770 %	101.9354 %	101.0784 %
Concentration per Run 1	0.0017 ppm	101.9756 %	100.8517 %	100.5576 %	102.5597 %	101.2868 %	102.0988 %
Concentration per Run 2	0.0016 ppm	102.2111 %	106.6371 %	99.2339 %	101.5356 %	108.7036 %	100.7729 %
Concentration per Run 3	0.0017 ppm	102.9947 %	95.6292 %	98.3965 %	102.4357 %	95.8156 %	100.3635 %
Concentration RSD	4.5 %	0.5 %	5.4 %	1.1 %	0.5 %	6.3 %	0.9 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-03 WG1935943
Analysis started at: 6/20/2024 8:32:24 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0024 ppm	0.0021 ppm	0.0104 ppm	0.0207 ppm	0.0000 ppm	28.1959 ppm
Concentration per Run 1	0.0001 ppm	0.0121 ppm	0.0022 ppm	0.0098 ppm	0.0207 ppm	0.0000 ppm	28.3203 ppm
Concentration per Run 2	-0.0006 ppm	-0.0073 ppm	0.0016 ppm	0.0099 ppm	0.0208 ppm	0.0000 ppm	28.0198 ppm
Concentration per Run 3	0.0001 ppm	0.0025 ppm	0.0024 ppm	0.0116 ppm	0.0205 ppm	0.0000 ppm	28.2477 ppm
Concentration RSD	313.5 %	395.8 %	20.2 %	9.7 %	0.6 %	348.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0019 ppm	0.0029 ppm	0.7665 ppm	-0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	0.0011 ppm	0.0021 ppm	0.0025 ppm	0.7834 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0016 ppm	0.0029 ppm	0.7730 ppm	-0.0006 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0020 ppm	0.0033 ppm	0.7431 ppm	-0.0009 ppm
Concentration RSD	192.6 %	726.0 %	63.0 %	14.2 %	14.4 %	2.7 %	386.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.9552 ppm	0.0001 ppm	0.0015 ppm	3.7395 ppm	0.0000 ppm	-0.0002 ppm	0.0038 ppm
Concentration per Run 1	7.0124 ppm	0.0002 ppm	0.0017 ppm	3.7587 ppm	-0.0007 ppm	-0.0007 ppm	0.0040 ppm
Concentration per Run 2	6.9614 ppm	0.0001 ppm	0.0012 ppm	3.7270 ppm	-0.0002 ppm	-0.0004 ppm	0.0029 ppm
Concentration per Run 3	6.8916 ppm	0.0001 ppm	0.0017 ppm	3.7329 ppm	0.0009 ppm	0.0004 ppm	0.0047 ppm
Concentration RSD	0.9 %	49.7 %	18.2 %	0.4 %	4,973.4 %	231.0 %	23.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	3.5754 ppm	0.0001 ppm	0.0778 ppm	0.0002 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0016 ppm	3.6096 ppm	0.0002 ppm	0.0779 ppm	0.0003 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0009 ppm	3.5660 ppm	-0.0002 ppm	0.0776 ppm	-0.0002 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 3	-0.0037 ppm	3.5507 ppm	0.0003 ppm	0.0780 ppm	0.0006 ppm	-0.0025 ppm	0.0001 ppm
Concentration RSD	759.0 %	0.9 %	383.3 %	0.3 %	184.1 %	215.6 %	5,185.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	102.3194 %	102.3553 %	98.7106 %	102.1568 %	102.0887 %	100.4170 %
Concentration per Run 1	0.0017 ppm	102.6054 %	102.2473 %	98.5550 %	102.1901 %	102.4104 %	100.2594 %
Concentration per Run 2	0.0021 ppm	102.2234 %	103.1134 %	98.8881 %	101.5791 %	102.5317 %	100.6505 %
Concentration per Run 3	0.0018 ppm	102.1295 %	101.7052 %	98.6887 %	102.7011 %	101.3239 %	100.3410 %
Concentration RSD	12.0 %	0.2 %	0.7 %	0.2 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-04 WG1935943
Analysis started at: 6/20/2024 8:35:53 AM
Rack 1
Vial 10
Comment rr Be Fe K Na

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0013 ppm	0.0018 ppm	0.0156 ppm	0.0526 ppm	0.0000 ppm	16.5785 ppm
Concentration per Run 1	0.0004 ppm	-0.0013 ppm	0.0020 ppm	0.0153 ppm	0.0520 ppm	0.0000 ppm	16.3558 ppm
Concentration per Run 2	0.0004 ppm	0.0018 ppm	0.0012 ppm	0.0144 ppm	0.0525 ppm	-0.0001 ppm	16.5311 ppm
Concentration per Run 3	0.0001 ppm	-0.0043 ppm	0.0022 ppm	0.0171 ppm	0.0533 ppm	0.0000 ppm	16.8488 ppm
Concentration RSD	50.8 %	236.6 %	29.2 %	8.9 %	1.2 %	126.8 %	1.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0013 ppm	0.0007 ppm	0.0048 ppm	1.3668 ppm	0.0036 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0016 ppm	0.0006 ppm	0.0046 ppm	1.3780 ppm	0.0037 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0009 ppm	0.0007 ppm	0.0046 ppm	1.3726 ppm	0.0035 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0014 ppm	0.0008 ppm	0.0053 ppm	1.3497 ppm	0.0038 ppm
Concentration RSD	542.3 %	231.6 %	26.5 %	9.5 %	8.8 %	1.1 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.3219 ppm	0.0001 ppm	0.0010 ppm	20.3791 ppm	0.0004 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	7.2928 ppm	0.0000 ppm	0.0008 ppm	20.0784 ppm	0.0006 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 2	7.4150 ppm	0.0001 ppm	0.0011 ppm	20.3461 ppm	0.0003 ppm	-0.0011 ppm	-0.0004 ppm
Concentration per Run 3	7.2581 ppm	0.0002 ppm	0.0010 ppm	20.7127 ppm	0.0004 ppm	-0.0003 ppm	0.0007 ppm
Concentration RSD	1.1 %	74.0 %	14.5 %	1.6 %	37.4 %	75.8 %	166.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	9.8006 ppm	-0.0010 ppm	0.0974 ppm	0.0001 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0008 ppm	9.7898 ppm	-0.0007 ppm	0.0960 ppm	0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	9.8946 ppm	-0.0007 ppm	0.0974 ppm	-0.0001 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	9.7174 ppm	-0.0015 ppm	0.0987 ppm	0.0002 ppm	-0.0011 ppm	-0.0002 ppm
Concentration RSD	123.9 %	0.9 %	46.1 %	1.4 %	162.7 %	36.7 %	417.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	102.0596 %	101.5752 %	98.8855 %	100.6349 %	100.3645 %	100.4552 %
Concentration per Run 1	0.0010 ppm	102.3466 %	102.3723 %	98.2938 %	101.5083 %	101.0713 %	100.3167 %
Concentration per Run 2	0.0010 ppm	100.8986 %	103.0339 %	98.9500 %	98.6011 %	101.2320 %	100.4365 %
Concentration per Run 3	0.0012 ppm	102.9336 %	99.3195 %	99.4127 %	101.7953 %	98.7903 %	100.6125 %
Concentration RSD	13.7 %	1.0 %	2.0 %	0.6 %	1.8 %	1.4 %	0.1 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1935943-3 WG1935943
Analysis started at: 6/20/2024 8:39:23 AM
Rack 1
Vial 11
Comment rr Be Fe K Na

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0513 ppm	2.0868 ppm	0.1312 ppm	1.0589 ppm	2.1236 ppm	0.0535 ppm	26.1251 ppm
Concentration per Run 1	0.0508 ppm	2.0757 ppm	0.1315 ppm	1.0563 ppm	2.1196 ppm	0.0532 ppm	25.9585 ppm
Concentration per Run 2	0.0516 ppm	2.1183 ppm	0.1281 ppm	1.0569 ppm	2.1408 ppm	0.0540 ppm	26.4062 ppm
Concentration per Run 3	0.0516 ppm	2.0664 ppm	0.1339 ppm	1.0634 ppm	2.1104 ppm	0.0532 ppm	26.0105 ppm
Concentration RSD	0.9 %	1.3 %	2.2 %	0.4 %	0.7 %	0.9 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0542 ppm	0.4947 ppm	0.1996 ppm	0.2519 ppm	1.0520 ppm	12.3722 ppm	0.0013 ppm
Concentration per Run 1	0.0541 ppm	0.4946 ppm	0.1988 ppm	0.2509 ppm	1.0491 ppm	12.3490 ppm	0.0011 ppm
Concentration per Run 2	0.0541 ppm	0.4931 ppm	0.2002 ppm	0.2513 ppm	1.0667 ppm	12.4935 ppm	0.0012 ppm
Concentration per Run 3	0.0545 ppm	0.4963 ppm	0.1997 ppm	0.2536 ppm	1.0403 ppm	12.2742 ppm	0.0016 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	0.6 %	1.3 %	0.9 %	21.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.1342 ppm	0.5171 ppm	0.8439 ppm	30.1513 ppm	0.4968 ppm	0.5612 ppm	0.4332 ppm
Concentration per Run 1	17.0484 ppm	0.5143 ppm	0.8260 ppm	30.1082 ppm	0.4949 ppm	0.5673 ppm	0.4298 ppm
Concentration per Run 2	17.1274 ppm	0.5221 ppm	0.8389 ppm	30.4148 ppm	0.4974 ppm	0.5594 ppm	0.4286 ppm
Concentration per Run 3	17.2268 ppm	0.5148 ppm	0.8669 ppm	29.9310 ppm	0.4980 ppm	0.5571 ppm	0.4413 ppm
Concentration RSD	0.5 %	0.8 %	2.5 %	0.8 %	0.3 %	1.0 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1320 ppm	10.4165 ppm	0.9836 ppm	1.1218 ppm	1.0345 ppm	0.1282 ppm	0.5045 ppm
Concentration per Run 1	0.1342 ppm	10.3991 ppm	0.9742 ppm	1.1187 ppm	1.0296 ppm	0.1294 ppm	0.5028 ppm
Concentration per Run 2	0.1319 ppm	10.4044 ppm	0.9832 ppm	1.1295 ppm	1.0342 ppm	0.1267 ppm	0.5041 ppm
Concentration per Run 3	0.1299 ppm	10.4460 ppm	0.9933 ppm	1.1170 ppm	1.0398 ppm	0.1285 ppm	0.5067 ppm
Concentration RSD	1.6 %	0.2 %	1.0 %	0.6 %	0.5 %	1.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5097 ppm	102.0464 %	102.4920 %	97.3834 %	100.9604 %	101.2150 %	99.9709 %
Concentration per Run 1	0.5098 ppm	102.2665 %	102.4954 %	96.5958 %	100.5788 %	101.0126 %	99.2124 %
Concentration per Run 2	0.5077 ppm	102.2870 %	101.8683 %	97.5279 %	101.3236 %	101.3031 %	99.9907 %
Concentration per Run 3	0.5116 ppm	101.5857 %	103.1122 %	98.0263 %	100.9786 %	101.3295 %	100.7095 %
Concentration RSD	0.4 %	0.4 %	0.6 %	0.7 %	0.4 %	0.2 %	0.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1935943-4 WG1935943
Analysis started at: 6/20/2024 8:42:54 AM
Rack 1
Vial 12
Comment rr Be Fe K Na

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	2.0252 ppm	0.1297 ppm	1.0636 ppm	2.0864 ppm	0.0524 ppm	26.3370 ppm
Concentration per Run 1	0.0521 ppm	1.9264 ppm	0.1287 ppm	1.0576 ppm	1.9908 ppm	0.0500 ppm	24.9303 ppm
Concentration per Run 2	0.0521 ppm	2.1230 ppm	0.1311 ppm	1.0790 ppm	2.1742 ppm	0.0549 ppm	27.7316 ppm
Concentration per Run 3	0.0509 ppm	2.0263 ppm	0.1294 ppm	1.0541 ppm	2.0943 ppm	0.0523 ppm	26.3491 ppm
Concentration RSD	1.4 %	4.9 %	1.0 %	1.3 %	4.4 %	4.7 %	5.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0545 ppm	0.4971 ppm	0.1999 ppm	0.2554 ppm	1.0330 ppm	12.2087 ppm	0.0024 ppm
Concentration per Run 1	0.0542 ppm	0.4946 ppm	0.1998 ppm	0.2541 ppm	0.9840 ppm	11.7220 ppm	0.0020 ppm
Concentration per Run 2	0.0549 ppm	0.5006 ppm	0.2007 ppm	0.2586 ppm	1.0724 ppm	12.7418 ppm	0.0020 ppm
Concentration per Run 3	0.0545 ppm	0.4962 ppm	0.1992 ppm	0.2536 ppm	1.0425 ppm	12.1623 ppm	0.0030 ppm
Concentration RSD	0.6 %	0.6 %	0.4 %	1.1 %	4.4 %	4.2 %	24.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.4850 ppm	0.5030 ppm	0.8709 ppm	30.6359 ppm	0.4960 ppm	0.5610 ppm	0.4422 ppm
Concentration per Run 1	17.4551 ppm	0.4784 ppm	0.8488 ppm	29.1668 ppm	0.4942 ppm	0.5581 ppm	0.4323 ppm
Concentration per Run 2	17.5928 ppm	0.5288 ppm	0.8756 ppm	32.0970 ppm	0.5008 ppm	0.5618 ppm	0.4441 ppm
Concentration per Run 3	17.4072 ppm	0.5017 ppm	0.8884 ppm	30.6440 ppm	0.4931 ppm	0.5633 ppm	0.4503 ppm
Concentration RSD	0.6 %	5.0 %	2.3 %	4.8 %	0.8 %	0.5 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1328 ppm	11.0912 ppm	0.9975 ppm	1.1052 ppm	1.0382 ppm	0.1277 ppm	0.5072 ppm
Concentration per Run 1	0.1345 ppm	11.0249 ppm	0.9922 ppm	1.0549 ppm	1.0369 ppm	0.1265 ppm	0.5058 ppm
Concentration per Run 2	0.1323 ppm	11.1798 ppm	1.0041 ppm	1.1516 ppm	1.0469 ppm	0.1291 ppm	0.5098 ppm
Concentration per Run 3	0.1318 ppm	11.0690 ppm	0.9962 ppm	1.1090 ppm	1.0309 ppm	0.1274 ppm	0.5059 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %	4.4 %	0.8 %	1.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5070 ppm	100.4079 %	104.0363 %	95.6492 %	99.0045 %	102.6996 %	98.1716 %
Concentration per Run 1	0.5068 ppm	100.9711 %	109.4614 %	96.4558 %	98.9694 %	106.3212 %	99.2733 %
Concentration per Run 2	0.5096 ppm	99.6831 %	100.2295 %	95.1361 %	98.8044 %	100.3876 %	97.3814 %
Concentration per Run 3	0.5045 ppm	100.5695 %	102.4179 %	95.3558 %	99.2396 %	101.3899 %	97.8600 %
Concentration RSD	0.5 %	0.7 %	4.6 %	0.7 %	0.2 %	3.1 %	1.0 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1935943-5 WG1935943
Analysis started at: 6/20/2024 8:46:26 AM
Rack 1
Vial 13
Comment rr Be Fe K Na

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0486 ppm	1.9571 ppm	0.1248 ppm	1.0179 ppm	2.0234 ppm	0.0505 ppm	25.4186 ppm
Concentration per Run 1	0.0480 ppm	1.9550 ppm	0.1245 ppm	1.0207 ppm	2.0007 ppm	0.0502 ppm	25.4036 ppm
Concentration per Run 2	0.0486 ppm	1.9513 ppm	0.1261 ppm	1.0144 ppm	2.0464 ppm	0.0507 ppm	25.4092 ppm
Concentration per Run 3	0.0491 ppm	1.9650 ppm	0.1237 ppm	1.0186 ppm	2.0229 ppm	0.0505 ppm	25.4431 ppm
Concentration RSD	1.1 %	0.4 %	1.0 %	0.3 %	1.1 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0518 ppm	0.4713 ppm	0.1901 ppm	0.2423 ppm	0.9966 ppm	11.8286 ppm	0.0011 ppm
Concentration per Run 1	0.0521 ppm	0.4727 ppm	0.1889 ppm	0.2411 ppm	0.9886 ppm	11.7343 ppm	0.0006 ppm
Concentration per Run 2	0.0519 ppm	0.4729 ppm	0.1915 ppm	0.2415 ppm	1.0062 ppm	11.9359 ppm	0.0012 ppm
Concentration per Run 3	0.0515 ppm	0.4682 ppm	0.1898 ppm	0.2443 ppm	0.9950 ppm	11.8155 ppm	0.0015 ppm
Concentration RSD	0.5 %	0.6 %	0.7 %	0.7 %	0.9 %	0.9 %	43.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.7266 ppm	0.4847 ppm	0.8342 ppm	29.6784 ppm	0.4728 ppm	0.5345 ppm	0.3376 ppm
Concentration per Run 1	16.7771 ppm	0.4843 ppm	0.8210 ppm	29.5624 ppm	0.4742 ppm	0.5325 ppm	0.3244 ppm
Concentration per Run 2	16.7623 ppm	0.4845 ppm	0.8375 ppm	29.7550 ppm	0.4725 ppm	0.5352 ppm	0.3383 ppm
Concentration per Run 3	16.6404 ppm	0.4852 ppm	0.8440 ppm	29.7177 ppm	0.4718 ppm	0.5357 ppm	0.3502 ppm
Concentration RSD	0.4 %	0.1 %	1.4 %	0.3 %	0.3 %	0.3 %	3.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1229 ppm	10.4305 ppm	0.9585 ppm	1.0730 ppm	0.9938 ppm	0.1223 ppm	0.4820 ppm
Concentration per Run 1	0.1188 ppm	10.4229 ppm	0.9565 ppm	1.0640 ppm	0.9895 ppm	0.1222 ppm	0.4832 ppm
Concentration per Run 2	0.1261 ppm	10.4295 ppm	0.9564 ppm	1.0824 ppm	0.9982 ppm	0.1227 ppm	0.4831 ppm
Concentration per Run 3	0.1238 ppm	10.4390 ppm	0.9627 ppm	1.0727 ppm	0.9935 ppm	0.1220 ppm	0.4797 ppm
Concentration RSD	3.0 %	0.1 %	0.4 %	0.9 %	0.4 %	0.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4836 ppm	101.0655 %	103.2682 %	96.3843 %	100.1099 %	101.7789 %	98.9671 %
Concentration per Run 1	0.4870 ppm	100.4657 %	103.7093 %	96.1036 %	99.0676 %	101.8940 %	98.6308 %
Concentration per Run 2	0.4829 ppm	101.2007 %	101.7260 %	96.6539 %	100.1050 %	99.9216 %	99.2518 %
Concentration per Run 3	0.4808 ppm	101.5302 %	104.3693 %	96.3955 %	101.1572 %	103.5211 %	99.0187 %
Concentration RSD	0.7 %	0.5 %	1.3 %	0.3 %	1.0 %	1.8 %	0.3 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1935943-6D5 WG1935943
Analysis started at: 6/20/2024 8:49:52 AM
Rack 1
Vial 14
Comment rr Be Fe K Na

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0052 ppm	0.0107 ppm	0.0000 ppm	3.3098 ppm
Concentration per Run 1	0.0002 ppm	0.0125 ppm	0.0007 ppm	0.0030 ppm	0.0110 ppm	0.0000 ppm	3.4120 ppm
Concentration per Run 2	-0.0005 ppm	-0.0100 ppm	0.0010 ppm	0.0075 ppm	0.0106 ppm	0.0000 ppm	3.2608 ppm
Concentration per Run 3	0.0000 ppm	-0.0011 ppm	0.0003 ppm	0.0052 ppm	0.0105 ppm	0.0000 ppm	3.2565 ppm
Concentration RSD	349.5 %	2,361.9 %	52.2 %	43.0 %	2.7 %	111.3 %	2.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0053 ppm	0.2611 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0068 ppm	0.2727 ppm	-0.0015 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0041 ppm	0.2536 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	-0.0002 ppm	0.0006 ppm	0.0050 ppm	0.2571 ppm	0.0004 ppm
Concentration RSD	912.2 %	367.8 %	269.9 %	20.3 %	26.6 %	3.9 %	433.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4740 ppm	-0.0001 ppm	0.0303 ppm	4.1357 ppm	-0.0006 ppm	0.0007 ppm	0.0349 ppm
Concentration per Run 1	1.4744 ppm	-0.0001 ppm	0.0302 ppm	4.2626 ppm	-0.0015 ppm	0.0018 ppm	0.0378 ppm
Concentration per Run 2	1.4761 ppm	-0.0001 ppm	0.0309 ppm	4.0682 ppm	0.0000 ppm	0.0001 ppm	0.0346 ppm
Concentration per Run 3	1.4714 ppm	0.0000 ppm	0.0298 ppm	4.0761 ppm	-0.0002 ppm	0.0002 ppm	0.0323 ppm
Concentration RSD	0.2 %	82.8 %	1.8 %	2.7 %	136.0 %	136.6 %	8.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	1.9337 ppm	0.0321 ppm	0.0197 ppm	0.0010 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0048 ppm	1.9345 ppm	0.0329 ppm	0.0204 ppm	0.0010 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 2	-0.0004 ppm	1.9437 ppm	0.0322 ppm	0.0193 ppm	0.0011 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 3	-0.0007 ppm	1.9229 ppm	0.0312 ppm	0.0194 ppm	0.0008 ppm	-0.0012 ppm	-0.0002 ppm
Concentration RSD	251.7 %	0.5 %	2.7 %	3.1 %	13.4 %	50.7 %	55.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	103.1927 %	103.2309 %	100.8255 %	102.4174 %	102.9703 %	100.9135 %
Concentration per Run 1	0.0010 ppm	102.8126 %	100.3970 %	100.7258 %	101.7943 %	100.4760 %	100.8724 %
Concentration per Run 2	0.0007 ppm	103.1644 %	105.4533 %	101.7580 %	102.2689 %	105.0290 %	101.7383 %
Concentration per Run 3	0.0009 ppm	103.6012 %	103.8424 %	99.9927 %	103.1890 %	103.4060 %	100.1299 %
Concentration RSD	19.2 %	0.4 %	2.5 %	0.9 %	0.7 %	2.2 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCV
Analysis started at: 6/20/2024 8:53:20 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4997 ppm	0.5035 ppm	0.4842 ppm	0.4891 ppm	0.5109 ppm	0.5259 ppm	0.4911 ppm
Concentration per Run 1	0.5033 ppm	0.5015 ppm	0.4858 ppm	0.4913 ppm	0.5117 ppm	0.5249 ppm	0.4874 ppm
Concentration per Run 2	0.4981 ppm	0.5117 ppm	0.4800 ppm	0.4893 ppm	0.5121 ppm	0.5292 ppm	0.5021 ppm
Concentration per Run 3	0.4975 ppm	0.4973 ppm	0.4867 ppm	0.4868 ppm	0.5089 ppm	0.5238 ppm	0.4837 ppm
Recovery Percentage 1	99.931 %	100.697 %	96.835 %	97.829 %	102.180 %	105.187 %	98.215 %
Concentration RSD	0.6 %	1.5 %	0.8 %	0.5 %	0.3 %	0.5 %	2.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4900 ppm	0.5014 ppm	0.4862 ppm	0.4941 ppm	0.5175 ppm	5.2319 ppm	0.6359 ppm
Concentration per Run 1	0.4892 ppm	0.5046 ppm	0.4872 ppm	0.4967 ppm	0.5133 ppm	5.2621 ppm	0.6362 ppm
Concentration per Run 2	0.4985 ppm	0.5047 ppm	0.4884 ppm	0.4937 ppm	0.5196 ppm	5.2362 ppm	0.6395 ppm
Concentration per Run 3	0.4823 ppm	0.4948 ppm	0.4830 ppm	0.4919 ppm	0.5196 ppm	5.1975 ppm	0.6320 ppm
Recovery Percentage 1	98.005 %	100.271 %	97.236 %	98.817 %	103.502 %	104.639 %	127.181 %
Concentration RSD	1.7 %	1.1 %	0.6 %	0.5 %	0.7 %	0.6 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4775 ppm	0.4964 ppm	0.5000 ppm	10.2593 ppm	0.4997 ppm	0.4976 ppm	0.5155 ppm
Concentration per Run 1	0.4802 ppm	0.4975 ppm	0.4961 ppm	10.1787 ppm	0.5004 ppm	0.4976 ppm	0.5169 ppm
Concentration per Run 2	0.4791 ppm	0.4969 ppm	0.5047 ppm	10.4673 ppm	0.5003 ppm	0.4970 ppm	0.5142 ppm
Concentration per Run 3	0.4731 ppm	0.4948 ppm	0.4992 ppm	10.1320 ppm	0.4985 ppm	0.4983 ppm	0.5155 ppm
Recovery Percentage 1	95.492 %	99.284 %	100.000 %	102.593 %	99.948 %	99.528 %	103.106 %
Concentration RSD	0.8 %	0.3 %	0.9 %	1.8 %	0.2 %	0.1 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4917 ppm	5.5350 ppm	0.5130 ppm	0.5041 ppm	0.4975 ppm	0.5050 ppm	0.4855 ppm
Concentration per Run 1	0.4892 ppm	5.5714 ppm	0.5141 ppm	0.5041 ppm	0.4992 ppm	0.5007 ppm	0.4859 ppm
Concentration per Run 2	0.4931 ppm	5.5360 ppm	0.5169 ppm	0.5055 ppm	0.4980 ppm	0.5033 ppm	0.4898 ppm
Concentration per Run 3	0.4929 ppm	5.4975 ppm	0.5080 ppm	0.5027 ppm	0.4953 ppm	0.5110 ppm	0.4808 ppm
Recovery Percentage 1	98.349 %	105.428 %	102.604 %	100.818 %	99.507 %	101.004 %	97.101 %
Concentration RSD	0.4 %	0.7 %	0.9 %	0.3 %	0.4 %	1.1 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4939 ppm	102.6354 %	103.0258 %	99.0688 %	101.7302 %	101.4731 %	99.8201 %
Concentration per Run 1	0.4934 ppm	103.1813 %	103.7426 %	98.8689 %	101.9949 %	102.7410 %	99.6319 %
Concentration per Run 2	0.4977 ppm	101.4064 %	102.8741 %	99.3302 %	100.9540 %	101.5662 %	100.1547 %
Concentration per Run 3	0.4907 ppm	103.3184 %	102.4607 %	99.0074 %	102.2417 %	100.1121 %	99.6737 %
Recovery Percentage 1	98.783 %						
Concentration RSD	0.7 %	1.0 %	0.6 %	0.2 %	0.7 %	1.3 %	0.3 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCB
Analysis started at: 6/20/2024 8:56:49 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0032 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 1	0.0002 ppm	-0.0026 ppm	-0.0006 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0068 ppm	0.0011 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 3	0.0003 ppm	0.0054 ppm	0.0028 ppm	0.0015 ppm	0.0000 ppm	0.0001 ppm	-0.0018 ppm
Recovery Percentage 1	2.097 %	3.203 %	22.037 %	1.803 %	0.114 %	0.157 %	1.221 %
Concentration RSD	91.7 %	158.2 %	156.4 %	177.3 %	637.1 %	791.0 %	227.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0030 ppm	0.0022 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0051 ppm	0.0235 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0022 ppm	-0.0010 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0007 ppm	0.0017 ppm	-0.0161 ppm	0.0003 ppm
Recovery Percentage 1	0.218 %	-0.171 %	-1.640 %	1.810 %	5.995 %	0.087 %	-7.609 %
Concentration RSD	462.3 %	653.1 %	262.6 %	234.0 %	62.7 %	920.1 %	191.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0026 ppm	-0.0002 ppm	0.0072 ppm	0.0041 ppm	0.0002 ppm	-0.0007 ppm	0.0072 ppm
Concentration per Run 1	-0.0014 ppm	-0.0004 ppm	0.0077 ppm	0.0000 ppm	0.0011 ppm	0.0002 ppm	0.0089 ppm
Concentration per Run 2	-0.0021 ppm	-0.0002 ppm	0.0069 ppm	0.0102 ppm	-0.0007 ppm	-0.0004 ppm	0.0073 ppm
Concentration per Run 3	-0.0043 ppm	0.0000 ppm	0.0071 ppm	0.0022 ppm	0.0002 ppm	-0.0020 ppm	0.0055 ppm
Recovery Percentage 1	-2.629 %	-1.880 %	14.436 %	0.206 %	0.699 %	-7.174 %	14.450 %
Concentration RSD	57.4 %	106.4 %	5.9 %	129.8 %	532.6 %	161.3 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	-0.0038 ppm	0.0052 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 1	-0.0026 ppm	-0.0053 ppm	0.0045 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0016 ppm	0.0060 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0021 ppm	-0.0045 ppm	0.0050 ppm	0.0002 ppm	0.0004 ppm	-0.0003 ppm	-0.0001 ppm
Recovery Percentage 1	-15.747 %	-0.765 %	10.338 %	1.174 %	1.802 %	-1.686 %	-2.728 %
Concentration RSD	86.1 %	50.9 %	14.6 %	155.2 %	114.7 %	30.8 %	98.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	102.0771 %	102.5353 %	100.5749 %	102.3163 %	102.3762 %	101.1662 %
Concentration per Run 1	0.0003 ppm	100.9798 %	102.8128 %	99.4957 %	102.1496 %	102.9620 %	100.2172 %
Concentration per Run 2	0.0000 ppm	102.4560 %	102.9370 %	101.4186 %	101.9710 %	102.9663 %	101.9857 %
Concentration per Run 3	-0.0001 ppm	102.7955 %	101.8563 %	100.8104 %	102.8284 %	101.2004 %	101.2958 %
Recovery Percentage 1	1.065 %						
Concentration RSD	396.2 %	0.9 %	0.6 %	1.0 %	0.4 %	1.0 %	0.9 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936458-1 WG1936458
Analysis started at: 6/20/2024 9:02:43 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0044 ppm	0.0020 ppm	0.0030 ppm	0.0002 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 1	0.0002 ppm	-0.0010 ppm	-0.0001 ppm	0.0031 ppm	0.0003 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 2	0.0006 ppm	0.0072 ppm	0.0031 ppm	0.0036 ppm	0.0001 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 3	0.0003 ppm	0.0072 ppm	0.0028 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	0.0046 ppm
Recovery Percentage 1	5.284 %	4.445 %	39.231 %	10.013 %	2.325 %	0.747 %	9.186 %
Concentration RSD	60.6 %	106.9 %	89.2 %	20.5 %	39.9 %	72.5 %	48.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0026 ppm	0.0084 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0010 ppm	0.0001 ppm	0.0037 ppm	0.0067 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0023 ppm	0.0200 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0019 ppm	-0.0015 ppm	-0.0006 ppm
Recovery Percentage 1	-0.277 %	-1.189 %	5.650 %	1.204 %	5.254 %	0.336 %	1.696 %
Concentration RSD	488.2 %	85.8 %	76.5 %	113.3 %	36.2 %	129.3 %	851.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0037 ppm	145.2433 ppm	-0.0002 ppm	-0.0006 ppm	0.0072 ppm
Concentration per Run 1	0.0017 ppm	0.0000 ppm	0.0040 ppm	144.9413 ppm	0.0003 ppm	-0.0013 ppm	0.0097 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0038 ppm	144.5686 ppm	-0.0009 ppm	-0.0003 ppm	0.0047 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0034 ppm	146.2201 ppm	-0.0001 ppm	-0.0002 ppm	0.0074 ppm
Recovery Percentage 1	0.699 %	-0.386 %	7.463 %	7,262.167 %	-0.809 %	-6.087 %	14.466 %
Concentration RSD	135.8 %	316.9 %	7.9 %	0.6 %	316.8 %	100.3 %	34.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0238 ppm	0.0074 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0260 ppm	0.0075 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	0.0216 ppm	0.0070 ppm	0.0000 ppm	0.0005 ppm	-0.0025 ppm	-0.0001 ppm
Concentration per Run 3	0.0015 ppm	0.0237 ppm	0.0075 ppm	0.0001 ppm	-0.0002 ppm	-0.0010 ppm	-0.0002 ppm
Recovery Percentage 1	1.908 %	4.752 %	14.715 %	0.753 %	0.554 %	-7.842 %	-0.860 %
Concentration RSD	649.9 %	9.3 %	3.9 %	60.7 %	652.8 %	53.3 %	134.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	97.8263 %	101.9845 %	90.5246 %	96.4817 %	101.2941 %	95.6928 %
Concentration per Run 1	0.0007 ppm	97.3445 %	102.8237 %	90.6999 %	95.6812 %	102.3196 %	95.8524 %
Concentration per Run 2	0.0007 ppm	97.7299 %	102.4778 %	90.3423 %	96.7236 %	101.3018 %	95.5257 %
Concentration per Run 3	0.0002 ppm	98.4046 %	100.6519 %	90.5317 %	97.0404 %	100.2610 %	95.7004 %
Recovery Percentage 1	10.288 %						
Concentration RSD	48.1 %	0.5 %	1.1 %	0.2 %	0.7 %	1.0 %	0.2 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936458-2 WG1936458
Analysis started at: 6/20/2024 9:06:24 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0483 ppm	1.9323 ppm	0.1215 ppm	0.8938 ppm	1.9445 ppm	0.0491 ppm	9.3912 ppm
Concentration per Run 1	0.0486 ppm	1.8543 ppm	0.1217 ppm	0.9036 ppm	1.8702 ppm	0.0470 ppm	8.9942 ppm
Concentration per Run 2	0.0480 ppm	1.9861 ppm	0.1202 ppm	0.8864 ppm	1.9959 ppm	0.0507 ppm	9.6693 ppm
Concentration per Run 3	0.0483 ppm	1.9565 ppm	0.1226 ppm	0.8914 ppm	1.9675 ppm	0.0495 ppm	9.5100 ppm
Concentration RSD	0.6 %	3.6 %	1.0 %	1.0 %	3.4 %	3.8 %	3.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0507 ppm	0.4705 ppm	0.1867 ppm	0.2418 ppm	0.9882 ppm	9.6242 ppm	-0.0002 ppm
Concentration per Run 1	0.0505 ppm	0.4698 ppm	0.1876 ppm	0.2427 ppm	0.9480 ppm	9.2713 ppm	-0.0005 ppm
Concentration per Run 2	0.0508 ppm	0.4714 ppm	0.1861 ppm	0.2414 ppm	1.0202 ppm	9.9181 ppm	0.0001 ppm
Concentration per Run 3	0.0509 ppm	0.4704 ppm	0.1865 ppm	0.2415 ppm	0.9965 ppm	9.6831 ppm	-0.0003 ppm
Concentration RSD	0.4 %	0.2 %	0.4 %	0.3 %	3.7 %	3.4 %	149.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.0708 ppm	0.4796 ppm	0.9614 ppm	9.6931 ppm	0.4670 ppm	0.5379 ppm	0.4790 ppm
Concentration per Run 1	9.0832 ppm	0.4589 ppm	0.9570 ppm	9.3408 ppm	0.4700 ppm	0.5355 ppm	0.4823 ppm
Concentration per Run 2	9.0812 ppm	0.4946 ppm	0.9593 ppm	9.9472 ppm	0.4644 ppm	0.5367 ppm	0.4783 ppm
Concentration per Run 3	9.0480 ppm	0.4852 ppm	0.9679 ppm	9.7914 ppm	0.4665 ppm	0.5414 ppm	0.4764 ppm
Concentration RSD	0.2 %	3.9 %	0.6 %	3.2 %	0.6 %	0.6 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1157 ppm	1.1520 ppm	0.9375 ppm	0.9219 ppm	0.9333 ppm	0.1225 ppm	0.4761 ppm
Concentration per Run 1	0.1164 ppm	1.1479 ppm	0.9420 ppm	0.8872 ppm	0.9360 ppm	0.1229 ppm	0.4768 ppm
Concentration per Run 2	0.1170 ppm	1.1500 ppm	0.9327 ppm	0.9474 ppm	0.9348 ppm	0.1225 ppm	0.4759 ppm
Concentration per Run 3	0.1137 ppm	1.1580 ppm	0.9378 ppm	0.9312 ppm	0.9289 ppm	0.1221 ppm	0.4756 ppm
Concentration RSD	1.5 %	0.5 %	0.5 %	3.4 %	0.4 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4612 ppm	103.8308 %	106.7958 %	97.6977 %	102.9178 %	105.1406 %	100.4006 %
Concentration per Run 1	0.4628 ppm	103.9226 %	110.7495 %	98.3512 %	102.7499 %	107.3469 %	101.1746 %
Concentration per Run 2	0.4609 ppm	103.7154 %	104.1456 %	98.2644 %	102.9842 %	103.8692 %	101.0822 %
Concentration per Run 3	0.4599 ppm	103.8545 %	105.4921 %	96.4777 %	103.0193 %	104.2058 %	98.9450 %
Concentration RSD	0.3 %	0.1 %	3.3 %	1.1 %	0.1 %	1.8 %	1.3 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-05 WG1935943
Analysis started at: 6/20/2024 9:09:54 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0111 ppm	0.0009 ppm	0.0113 ppm	0.0566 ppm	0.0000 ppm	14.9494 ppm
Concentration per Run 1	0.0002 ppm	0.0130 ppm	-0.0004 ppm	0.0111 ppm	0.0568 ppm	0.0000 ppm	15.0004 ppm
Concentration per Run 2	0.0004 ppm	0.0075 ppm	0.0004 ppm	0.0108 ppm	0.0561 ppm	0.0000 ppm	14.8563 ppm
Concentration per Run 3	0.0002 ppm	0.0127 ppm	0.0029 ppm	0.0118 ppm	0.0568 ppm	0.0001 ppm	14.9915 ppm
Concentration RSD	41.8 %	27.7 %	179.0 %	4.5 %	0.7 %	393.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0010 ppm	1.2053 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0010 ppm	0.0013 ppm	1.2307 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0015 ppm	-0.0001 ppm	1.1858 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0011 ppm	0.0019 ppm	1.1995 ppm	-0.0005 ppm
Concentration RSD	1,443.4 %	974.8 %	116.3 %	24.2 %	95.9 %	1.9 %	92.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.9090 ppm	0.0228 ppm	0.0056 ppm	27.0584 ppm	0.0007 ppm	-0.0004 ppm	0.0030 ppm
Concentration per Run 1	2.9498 ppm	0.0231 ppm	0.0062 ppm	27.1897 ppm	0.0007 ppm	-0.0003 ppm	0.0031 ppm
Concentration per Run 2	2.9481 ppm	0.0224 ppm	0.0053 ppm	26.8110 ppm	0.0006 ppm	-0.0005 ppm	0.0014 ppm
Concentration per Run 3	2.8292 ppm	0.0228 ppm	0.0055 ppm	27.1745 ppm	0.0007 ppm	-0.0005 ppm	0.0045 ppm
Concentration RSD	2.4 %	1.6 %	8.8 %	0.8 %	4.0 %	29.0 %	53.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	4.8514 ppm	-0.0013 ppm	0.0539 ppm	0.0003 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	4.8914 ppm	-0.0017 ppm	0.0540 ppm	0.0002 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 2	-0.0016 ppm	4.9311 ppm	-0.0007 ppm	0.0536 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0013 ppm	4.7315 ppm	-0.0013 ppm	0.0541 ppm	0.0007 ppm	-0.0015 ppm	0.0001 ppm
Concentration RSD	1,787.0 %	2.2 %	39.0 %	0.5 %	129.8 %	86.9 %	2,048.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	104.4234 %	103.7642 %	100.2294 %	104.9979 %	103.1115 %	101.7827 %
Concentration per Run 1	0.0009 ppm	103.0470 %	103.2270 %	99.8655 %	102.7659 %	102.6752 %	101.5345 %
Concentration per Run 2	0.0008 ppm	104.5937 %	104.1002 %	100.3384 %	104.6556 %	102.3460 %	102.0931 %
Concentration per Run 3	0.0007 ppm	105.6294 %	103.9653 %	100.4842 %	107.5722 %	104.3132 %	101.7205 %
Concentration RSD	13.9 %	1.2 %	0.5 %	0.3 %	2.3 %	1.0 %	0.3 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-06 WG1935943
Analysis started at: 6/20/2024 9:13:23 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0041 ppm	0.0005 ppm	0.0114 ppm	0.0387 ppm	0.0000 ppm	13.8643 ppm
Concentration per Run 1	0.0005 ppm	0.0033 ppm	0.0025 ppm	0.0115 ppm	0.0386 ppm	0.0000 ppm	13.8408 ppm
Concentration per Run 2	0.0004 ppm	0.0032 ppm	-0.0028 ppm	0.0120 ppm	0.0388 ppm	0.0000 ppm	13.8741 ppm
Concentration per Run 3	0.0007 ppm	0.0056 ppm	0.0018 ppm	0.0106 ppm	0.0388 ppm	0.0000 ppm	13.8781 ppm
Concentration RSD	28.1 %	33.0 %	587.3 %	6.2 %	0.3 %	253.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0033 ppm	0.0010 ppm	0.0054 ppm	1.1136 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0037 ppm	0.0010 ppm	0.0051 ppm	1.1401 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0033 ppm	0.0008 ppm	0.0050 ppm	1.0796 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0028 ppm	0.0010 ppm	0.0063 ppm	1.1213 ppm	0.0013 ppm
Concentration RSD	77.2 %	116.8 %	13.7 %	10.9 %	13.4 %	2.8 %	157.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5192 ppm	0.0005 ppm	0.0013 ppm	13.7885 ppm	0.0037 ppm	-0.0017 ppm	0.0011 ppm
Concentration per Run 1	5.4847 ppm	0.0005 ppm	0.0015 ppm	13.8623 ppm	0.0037 ppm	-0.0007 ppm	-0.0012 ppm
Concentration per Run 2	5.5472 ppm	0.0005 ppm	0.0009 ppm	13.6897 ppm	0.0034 ppm	-0.0020 ppm	0.0015 ppm
Concentration per Run 3	5.5256 ppm	0.0006 ppm	0.0014 ppm	13.8136 ppm	0.0041 ppm	-0.0024 ppm	0.0031 ppm
Concentration RSD	0.6 %	15.3 %	24.9 %	0.6 %	9.3 %	54.8 %	190.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	9.8296 ppm	-0.0017 ppm	0.0839 ppm	-0.0002 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.0019 ppm	9.7325 ppm	-0.0011 ppm	0.0839 ppm	-0.0002 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0009 ppm	9.9076 ppm	-0.0016 ppm	0.0839 ppm	-0.0003 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 3	-0.0019 ppm	9.8487 ppm	-0.0023 ppm	0.0841 ppm	-0.0001 ppm	-0.0008 ppm	0.0004 ppm
Concentration RSD	695.6 %	0.9 %	34.5 %	0.2 %	45.0 %	410.8 %	37.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0098 ppm	103.6483 %	104.0078 %	98.9454 %	103.0718 %	102.0059 %	100.0310 %
Concentration per Run 1	0.0098 ppm	103.8460 %	104.4773 %	98.9499 %	104.0476 %	102.8169 %	100.4071 %
Concentration per Run 2	0.0101 ppm	102.8415 %	103.2507 %	99.5414 %	102.0392 %	101.1260 %	100.5962 %
Concentration per Run 3	0.0096 ppm	104.2575 %	104.2953 %	98.3450 %	103.1285 %	102.0749 %	99.0897 %
Concentration RSD	2.2 %	0.7 %	0.6 %	0.6 %	1.0 %	0.8 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-07 WG1935943
Analysis started at: 6/20/2024 9:16:52 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0094 ppm	0.0011 ppm	0.0074 ppm	0.0197 ppm	0.0000 ppm	9.2115 ppm
Concentration per Run 1	0.0010 ppm	0.0101 ppm	0.0008 ppm	0.0079 ppm	0.0199 ppm	0.0000 ppm	9.2201 ppm
Concentration per Run 2	0.0007 ppm	0.0077 ppm	0.0002 ppm	0.0073 ppm	0.0196 ppm	0.0000 ppm	9.1687 ppm
Concentration per Run 3	0.0008 ppm	0.0106 ppm	0.0021 ppm	0.0071 ppm	0.0196 ppm	0.0000 ppm	9.2457 ppm
Concentration RSD	21.5 %	16.1 %	92.0 %	5.6 %	1.0 %	198.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0014 ppm	-0.0001 ppm	1.3312 ppm	-0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0014 ppm	-0.0006 ppm	1.3528 ppm	-0.0012 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0014 ppm	0.0007 ppm	1.3153 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0014 ppm	-0.0006 ppm	1.3254 ppm	-0.0022 ppm
Concentration RSD	54.3 %	2,947.3 %	106.1 %	1.1 %	497.6 %	1.5 %	31.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.3312 ppm	0.0009 ppm	0.0007 ppm	8.2780 ppm	-0.0001 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 1	1.3322 ppm	0.0010 ppm	0.0009 ppm	8.2200 ppm	0.0002 ppm	-0.0002 ppm	0.0024 ppm
Concentration per Run 2	1.3390 ppm	0.0010 ppm	0.0005 ppm	8.2766 ppm	-0.0008 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	1.3225 ppm	0.0007 ppm	0.0006 ppm	8.3372 ppm	0.0002 ppm	0.0010 ppm	0.0039 ppm
Concentration RSD	0.6 %	18.3 %	30.5 %	0.7 %	493.9 %	2,036.4 %	103.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	4.1776 ppm	-0.0010 ppm	0.0346 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 1	-0.0011 ppm	4.1793 ppm	-0.0021 ppm	0.0347 ppm	0.0000 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	0.0027 ppm	4.1945 ppm	-0.0008 ppm	0.0344 ppm	0.0000 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 3	-0.0030 ppm	4.1590 ppm	-0.0001 ppm	0.0346 ppm	-0.0003 ppm	-0.0006 ppm	0.0002 ppm
Concentration RSD	629.0 %	0.4 %	103.8 %	0.5 %	254.3 %	58.5 %	4,123.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	104.0414 %	102.8121 %	101.4902 %	103.3629 %	101.9460 %	101.9511 %
Concentration per Run 1	0.0010 ppm	104.4797 %	102.7170 %	101.5230 %	104.3393 %	101.8349 %	102.3291 %
Concentration per Run 2	0.0010 ppm	103.3522 %	103.7991 %	101.5729 %	102.2668 %	102.6438 %	101.7821 %
Concentration per Run 3	0.0010 ppm	104.2923 %	101.9203 %	101.3746 %	103.4825 %	101.3593 %	101.7420 %
Concentration RSD	2.9 %	0.6 %	0.9 %	0.1 %	1.0 %	0.6 %	0.3 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433375-08 WG1935943
Analysis started at: 6/20/2024 9:20:21 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0106 ppm	0.0004 ppm	0.0021 ppm	0.0155 ppm	0.0000 ppm	11.6608 ppm
Concentration per Run 1	0.0002 ppm	0.0148 ppm	0.0039 ppm	0.0021 ppm	0.0155 ppm	0.0000 ppm	11.6097 ppm
Concentration per Run 2	0.0004 ppm	0.0129 ppm	-0.0005 ppm	0.0011 ppm	0.0156 ppm	0.0000 ppm	11.7116 ppm
Concentration per Run 3	0.0004 ppm	0.0042 ppm	-0.0022 ppm	0.0029 ppm	0.0155 ppm	0.0000 ppm	11.6610 ppm
Concentration RSD	38.2 %	53.4 %	794.1 %	43.1 %	0.5 %	16,000.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0024 ppm	0.0007 ppm	0.0035 ppm	0.9856 ppm	0.0015 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0024 ppm	0.0006 ppm	0.0020 ppm	1.0026 ppm	0.0016 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.0006 ppm	0.0051 ppm	0.9565 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0023 ppm	0.0009 ppm	0.0033 ppm	0.9977 ppm	0.0010 ppm
Concentration RSD	82.7 %	166.5 %	2.9 %	26.9 %	45.1 %	2.6 %	28.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.4557 ppm	-0.0001 ppm	0.0004 ppm	8.7985 ppm	0.0000 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 1	5.4859 ppm	0.0000 ppm	0.0001 ppm	8.8213 ppm	0.0006 ppm	-0.0013 ppm	0.0029 ppm
Concentration per Run 2	5.4409 ppm	-0.0002 ppm	0.0005 ppm	8.7924 ppm	-0.0008 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	5.4401 ppm	0.0000 ppm	0.0005 ppm	8.7816 ppm	0.0003 ppm	-0.0007 ppm	-0.0014 ppm
Concentration RSD	0.5 %	110.2 %	71.6 %	0.2 %	2,197.3 %	100.5 %	1,386.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	9.6829 ppm	-0.0012 ppm	0.0494 ppm	-0.0003 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0014 ppm	9.7425 ppm	-0.0004 ppm	0.0493 ppm	-0.0001 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 2	-0.0018 ppm	9.6340 ppm	-0.0018 ppm	0.0495 ppm	-0.0003 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 3	0.0015 ppm	9.6722 ppm	-0.0015 ppm	0.0493 ppm	-0.0005 ppm	-0.0010 ppm	-0.0003 ppm
Concentration RSD	495.1 %	0.6 %	59.9 %	0.2 %	71.0 %	174.9 %	3,839.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	103.5006 %	103.0078 %	100.6081 %	102.7225 %	102.0593 %	101.3896 %
Concentration per Run 1	0.0005 ppm	102.7513 %	103.5183 %	99.5610 %	102.1693 %	102.7869 %	100.8422 %
Concentration per Run 2	0.0006 ppm	103.4799 %	101.1723 %	100.9784 %	102.7999 %	99.8326 %	101.4776 %
Concentration per Run 3	0.0006 ppm	104.2704 %	104.3327 %	101.2849 %	103.1984 %	103.5586 %	101.8489 %
Concentration RSD	11.3 %	0.7 %	1.6 %	0.9 %	0.5 %	1.9 %	0.5 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433235-01 WG1936458
Analysis started at: 6/20/2024 9:23:50 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0009 ppm	0.0014 ppm	0.0073 ppm	0.0308 ppm	0.0000 ppm	71.3539 ppm
Concentration per Run 1	0.0007 ppm	-0.0035 ppm	0.0031 ppm	0.0063 ppm	0.0306 ppm	0.0000 ppm	70.8442 ppm
Concentration per Run 2	0.0009 ppm	0.0006 ppm	-0.0005 ppm	0.0067 ppm	0.0310 ppm	0.0001 ppm	71.6731 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0089 ppm	0.0308 ppm	0.0000 ppm	71.5444 ppm
Concentration RSD	87.8 %	235.7 %	126.7 %	19.0 %	0.7 %	63.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0011 ppm	0.0086 ppm	0.0021 ppm	0.0120 ppm	1.8885 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0014 ppm	0.0092 ppm	0.0019 ppm	0.0120 ppm	1.8929 ppm	0.0033 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0085 ppm	0.0026 ppm	0.0115 ppm	1.8822 ppm	0.0023 ppm
Concentration per Run 3	-0.0001 ppm	0.0012 ppm	0.0080 ppm	0.0019 ppm	0.0126 ppm	1.8904 ppm	0.0017 ppm
Concentration RSD	186.9 %	32.3 %	7.2 %	19.0 %	4.7 %	0.3 %	32.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8946 ppm	0.0000 ppm	0.0018 ppm	135.1153 ppm	0.0002 ppm	-0.0005 ppm	0.0033 ppm
Concentration per Run 1	0.9020 ppm	-0.0001 ppm	0.0017 ppm	134.0762 ppm	0.0006 ppm	0.0002 ppm	0.0034 ppm
Concentration per Run 2	0.8997 ppm	0.0001 ppm	0.0018 ppm	135.7401 ppm	-0.0004 ppm	-0.0014 ppm	0.0034 ppm
Concentration per Run 3	0.8821 ppm	-0.0001 ppm	0.0018 ppm	135.5295 ppm	0.0003 ppm	-0.0002 ppm	0.0031 ppm
Concentration RSD	1.2 %	291.2 %	3.8 %	0.7 %	311.2 %	175.5 %	5.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	4.4463 ppm	0.0008 ppm	0.0921 ppm	0.0000 ppm	-0.0008 ppm	0.0083 ppm
Concentration per Run 1	0.0013 ppm	4.4776 ppm	0.0009 ppm	0.0916 ppm	-0.0002 ppm	-0.0012 ppm	0.0085 ppm
Concentration per Run 2	-0.0009 ppm	4.4480 ppm	0.0009 ppm	0.0925 ppm	-0.0001 ppm	0.0005 ppm	0.0084 ppm
Concentration per Run 3	0.0007 ppm	4.4135 ppm	0.0006 ppm	0.0922 ppm	0.0005 ppm	-0.0016 ppm	0.0080 ppm
Concentration RSD	299.8 %	0.7 %	21.3 %	0.5 %	891.8 %	139.7 %	3.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	99.0045 %	105.4731 %	91.8144 %	98.0014 %	104.0512 %	98.1234 %
Concentration per Run 1	0.0001 ppm	98.2544 %	106.8287 %	91.3644 %	96.6238 %	105.1220 %	97.8001 %
Concentration per Run 2	0.0000 ppm	98.6906 %	104.6480 %	92.5119 %	98.1557 %	103.5723 %	98.8077 %
Concentration per Run 3	0.0002 ppm	100.0686 %	104.9428 %	91.5670 %	99.2246 %	103.4593 %	97.7626 %
Concentration RSD	58.6 %	1.0 %	1.1 %	0.7 %	1.3 %	0.9 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936458-3 WG1936458
Analysis started at: 6/20/2024 9:27:21 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0481 ppm	1.9996 ppm	0.1361 ppm	0.9093 ppm	2.0019 ppm	0.0511 ppm	83.1076 ppm
Concentration per Run 1	0.0482 ppm	2.0087 ppm	0.1381 ppm	0.9178 ppm	1.9994 ppm	0.0511 ppm	83.2721 ppm
Concentration per Run 2	0.0483 ppm	2.0047 ppm	0.1358 ppm	0.9012 ppm	2.0088 ppm	0.0511 ppm	83.1559 ppm
Concentration per Run 3	0.0480 ppm	1.9854 ppm	0.1345 ppm	0.9090 ppm	1.9976 ppm	0.0511 ppm	82.8950 ppm
Concentration RSD	0.3 %	0.6 %	1.3 %	0.9 %	0.3 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0501 ppm	0.4610 ppm	0.1943 ppm	0.2444 ppm	1.0165 ppm	11.9760 ppm	0.0024 ppm
Concentration per Run 1	0.0513 ppm	0.4649 ppm	0.1947 ppm	0.2457 ppm	1.0198 ppm	11.9932 ppm	0.0026 ppm
Concentration per Run 2	0.0500 ppm	0.4607 ppm	0.1932 ppm	0.2437 ppm	1.0221 ppm	12.0141 ppm	0.0020 ppm
Concentration per Run 3	0.0491 ppm	0.4573 ppm	0.1949 ppm	0.2437 ppm	1.0075 ppm	11.9206 ppm	0.0024 ppm
Concentration RSD	2.1 %	0.8 %	0.5 %	0.5 %	0.8 %	0.4 %	13.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6221 ppm	0.4843 ppm	0.9751 ppm	149.2487 ppm	0.4547 ppm	0.5489 ppm	0.4859 ppm
Concentration per Run 1	9.6719 ppm	0.4850 ppm	0.9759 ppm	149.2039 ppm	0.4598 ppm	0.5474 ppm	0.4911 ppm
Concentration per Run 2	9.6137 ppm	0.4833 ppm	0.9742 ppm	149.9414 ppm	0.4508 ppm	0.5507 ppm	0.4843 ppm
Concentration per Run 3	9.5807 ppm	0.4846 ppm	0.9750 ppm	148.6007 ppm	0.4535 ppm	0.5485 ppm	0.4824 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	0.4 %	1.0 %	0.3 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1273 ppm	5.8469 ppm	0.9316 ppm	1.0392 ppm	0.9398 ppm	0.1219 ppm	0.4916 ppm
Concentration per Run 1	0.1239 ppm	5.8882 ppm	0.9367 ppm	1.0387 ppm	0.9407 ppm	0.1216 ppm	0.4933 ppm
Concentration per Run 2	0.1293 ppm	5.8338 ppm	0.9255 ppm	1.0451 ppm	0.9379 ppm	0.1205 ppm	0.4912 ppm
Concentration per Run 3	0.1289 ppm	5.8187 ppm	0.9325 ppm	1.0338 ppm	0.9406 ppm	0.1238 ppm	0.4902 ppm
Concentration RSD	2.4 %	0.6 %	0.6 %	0.5 %	0.2 %	1.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4657 ppm	99.0243 %	103.3313 %	89.2429 %	97.7128 %	102.5081 %	95.7808 %
Concentration per Run 1	0.4695 ppm	97.9496 %	103.0158 %	88.4721 %	96.6600 %	102.1593 %	94.9078 %
Concentration per Run 2	0.4627 ppm	99.0633 %	102.9465 %	89.3298 %	97.9371 %	102.7054 %	95.9215 %
Concentration per Run 3	0.4648 ppm	100.0600 %	104.0315 %	89.9267 %	98.5413 %	102.6595 %	96.5130 %
Concentration RSD	0.8 %	1.1 %	0.6 %	0.8 %	1.0 %	0.3 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936458-4 WG1936458
Analysis started at: 6/20/2024 9:30:48 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0065 ppm	0.0018 ppm	0.0060 ppm	0.0317 ppm	0.0000 ppm	73.1548 ppm
Concentration per Run 1	0.0002 ppm	0.0069 ppm	0.0001 ppm	0.0063 ppm	0.0321 ppm	0.0000 ppm	73.5676 ppm
Concentration per Run 2	0.0007 ppm	0.0045 ppm	0.0025 ppm	0.0054 ppm	0.0314 ppm	0.0000 ppm	73.2414 ppm
Concentration per Run 3	0.0007 ppm	0.0082 ppm	0.0026 ppm	0.0063 ppm	0.0314 ppm	0.0000 ppm	72.6554 ppm
Concentration RSD	51.2 %	29.0 %	79.7 %	9.5 %	1.3 %	790.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0086 ppm	0.0020 ppm	0.0118 ppm	1.9724 ppm	0.0029 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0088 ppm	0.0018 ppm	0.0123 ppm	2.0040 ppm	0.0034 ppm
Concentration per Run 2	-0.0001 ppm	0.0012 ppm	0.0083 ppm	0.0022 ppm	0.0103 ppm	1.9574 ppm	0.0025 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0087 ppm	0.0020 ppm	0.0129 ppm	1.9558 ppm	0.0027 ppm
Concentration RSD	405.7 %	141.3 %	3.2 %	9.8 %	11.4 %	1.4 %	15.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8980 ppm	0.0002 ppm	0.0084 ppm	138.3909 ppm	0.0002 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 1	0.9047 ppm	0.0001 ppm	0.0082 ppm	139.6477 ppm	-0.0006 ppm	-0.0005 ppm	0.0062 ppm
Concentration per Run 2	0.8940 ppm	0.0001 ppm	0.0089 ppm	138.0919 ppm	0.0013 ppm	-0.0002 ppm	0.0054 ppm
Concentration per Run 3	0.8953 ppm	0.0003 ppm	0.0082 ppm	137.4329 ppm	-0.0001 ppm	0.0005 ppm	0.0092 ppm
Concentration RSD	0.6 %	67.6 %	4.9 %	0.8 %	561.1 %	1,092.4 %	29.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	4.4898 ppm	0.0013 ppm	0.0947 ppm	0.0007 ppm	-0.0009 ppm	0.0085 ppm
Concentration per Run 1	0.0029 ppm	4.5029 ppm	0.0011 ppm	0.0957 ppm	0.0009 ppm	-0.0008 ppm	0.0087 ppm
Concentration per Run 2	0.0042 ppm	4.4637 ppm	0.0020 ppm	0.0942 ppm	0.0004 ppm	-0.0010 ppm	0.0087 ppm
Concentration per Run 3	0.0000 ppm	4.5027 ppm	0.0009 ppm	0.0942 ppm	0.0008 ppm	-0.0010 ppm	0.0082 ppm
Concentration RSD	91.9 %	0.5 %	47.0 %	0.9 %	35.1 %	14.4 %	3.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	99.2062 %	102.0659 %	89.7021 %	97.9677 %	101.0109 %	95.8853 %
Concentration per Run 1	0.0004 ppm	97.7965 %	101.6495 %	92.9720 %	96.3049 %	100.9128 %	99.3567 %
Concentration per Run 2	0.0005 ppm	100.1668 %	101.7527 %	86.3422 %	99.1794 %	100.4568 %	92.2882 %
Concentration per Run 3	0.0004 ppm	99.6554 %	102.7955 %	89.7920 %	98.4188 %	101.6632 %	96.0109 %
Concentration RSD	16.0 %	1.3 %	0.6 %	3.7 %	1.5 %	0.6 %	3.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433235-02 WG1936458
Analysis started at: 6/20/2024 9:34:15 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.1661 ppm	0.0018 ppm	0.0044 ppm	0.0226 ppm	0.0000 ppm	1.2157 ppm
Concentration per Run 1	0.0006 ppm	0.1686 ppm	0.0038 ppm	0.0038 ppm	0.0228 ppm	0.0000 ppm	1.2210 ppm
Concentration per Run 2	0.0005 ppm	0.1681 ppm	0.0020 ppm	0.0039 ppm	0.0226 ppm	0.0000 ppm	1.2114 ppm
Concentration per Run 3	0.0009 ppm	0.1615 ppm	-0.0003 ppm	0.0056 ppm	0.0224 ppm	0.0000 ppm	1.2147 ppm
Concentration RSD	34.0 %	2.4 %	110.2 %	22.7 %	0.8 %	810.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0023 ppm	0.3740 ppm	0.0987 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0009 ppm	0.0023 ppm	0.3776 ppm	0.1118 ppm	0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0022 ppm	0.3705 ppm	0.0976 ppm	0.0012 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0023 ppm	0.3738 ppm	0.0867 ppm	0.0004 ppm
Concentration RSD	1,466.8 %	39.1 %	35.6 %	3.2 %	1.0 %	12.7 %	69.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0905 ppm	0.0160 ppm	0.0016 ppm	134.9112 ppm	0.0013 ppm	-0.0008 ppm	0.0027 ppm
Concentration per Run 1	0.0921 ppm	0.0159 ppm	0.0017 ppm	134.7126 ppm	0.0011 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 2	0.0894 ppm	0.0159 ppm	0.0016 ppm	134.7945 ppm	0.0021 ppm	-0.0030 ppm	0.0012 ppm
Concentration per Run 3	0.0901 ppm	0.0163 ppm	0.0016 ppm	135.2263 ppm	0.0006 ppm	0.0001 ppm	0.0065 ppm
Concentration RSD	1.5 %	1.5 %	3.4 %	0.2 %	58.1 %	245.9 %	126.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.4312 ppm	-0.0010 ppm	0.0077 ppm	0.0001 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	-0.0032 ppm	0.4326 ppm	0.0003 ppm	0.0078 ppm	0.0000 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	0.4280 ppm	-0.0018 ppm	0.0077 ppm	0.0002 ppm	-0.0024 ppm	-0.0004 ppm
Concentration per Run 3	0.0037 ppm	0.4329 ppm	-0.0013 ppm	0.0077 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm
Concentration RSD	1,131.7 %	0.6 %	115.3 %	0.9 %	85.3 %	144.1 %	147.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0143 ppm	102.2758 %	106.4216 %	96.7818 %	100.9765 %	105.5080 %	102.2474 %
Concentration per Run 1	0.0144 ppm	101.4368 %	107.0919 %	95.3090 %	100.2817 %	106.3937 %	100.6921 %
Concentration per Run 2	0.0144 ppm	102.2262 %	107.1708 %	94.0621 %	100.6795 %	105.7409 %	99.5445 %
Concentration per Run 3	0.0142 ppm	103.1644 %	105.0021 %	100.9745 %	101.9681 %	104.3895 %	106.5057 %
Concentration RSD	0.7 %	0.8 %	1.2 %	3.8 %	0.9 %	1.0 %	3.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCV
Analysis started at: 6/20/2024 9:37:43 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4976 ppm	0.4905 ppm	0.4792 ppm	0.4834 ppm	0.4897 ppm	0.5065 ppm	0.4825 ppm
Concentration per Run 1	0.4985 ppm	0.5113 ppm	0.4758 ppm	0.4868 ppm	0.5007 ppm	0.5195 ppm	0.4923 ppm
Concentration per Run 2	0.5012 ppm	0.4591 ppm	0.4804 ppm	0.4841 ppm	0.4669 ppm	0.4794 ppm	0.4582 ppm
Concentration per Run 3	0.4931 ppm	0.5010 ppm	0.4814 ppm	0.4794 ppm	0.5015 ppm	0.5207 ppm	0.4971 ppm
Recovery Percentage 1	99.519 %	98.096 %	95.835 %	96.685 %	97.937 %	101.300 %	96.510 %
Concentration RSD	0.8 %	5.6 %	0.6 %	0.8 %	4.0 %	4.6 %	4.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4969 ppm	0.5026 ppm	0.4790 ppm	0.4916 ppm	0.5011 ppm	5.0870 ppm	0.6168 ppm
Concentration per Run 1	0.4945 ppm	0.5018 ppm	0.4799 ppm	0.4938 ppm	0.5115 ppm	5.2150 ppm	0.6295 ppm
Concentration per Run 2	0.5055 ppm	0.5088 ppm	0.4838 ppm	0.4951 ppm	0.4757 ppm	4.8386 ppm	0.5887 ppm
Concentration per Run 3	0.4907 ppm	0.4971 ppm	0.4733 ppm	0.4860 ppm	0.5163 ppm	5.2073 ppm	0.6320 ppm
Recovery Percentage 1	99.376 %	100.511 %	95.804 %	98.328 %	100.229 %	101.739 %	123.350 %
Concentration RSD	1.6 %	1.2 %	1.1 %	1.0 %	4.4 %	4.2 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4749 ppm	0.4783 ppm	0.4907 ppm	9.9481 ppm	0.4887 ppm	0.4938 ppm	0.5002 ppm
Concentration per Run 1	0.4746 ppm	0.4902 ppm	0.4887 ppm	10.2388 ppm	0.4924 ppm	0.4912 ppm	0.5039 ppm
Concentration per Run 2	0.4795 ppm	0.4535 ppm	0.4945 ppm	9.4767 ppm	0.4906 ppm	0.4933 ppm	0.5000 ppm
Concentration per Run 3	0.4705 ppm	0.4913 ppm	0.4888 ppm	10.1290 ppm	0.4831 ppm	0.4969 ppm	0.4966 ppm
Recovery Percentage 1	94.978 %	95.663 %	98.137 %	99.481 %	97.739 %	98.765 %	100.034 %
Concentration RSD	0.9 %	4.5 %	0.7 %	4.1 %	1.0 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4903 ppm	5.5502 ppm	0.4981 ppm	0.4866 ppm	0.4869 ppm	0.5016 ppm	0.4823 ppm
Concentration per Run 1	0.4877 ppm	5.5604 ppm	0.4995 ppm	0.4979 ppm	0.4872 ppm	0.4990 ppm	0.4830 ppm
Concentration per Run 2	0.4927 ppm	5.5976 ppm	0.5030 ppm	0.4634 ppm	0.4913 ppm	0.5033 ppm	0.4838 ppm
Concentration per Run 3	0.4906 ppm	5.4927 ppm	0.4916 ppm	0.4985 ppm	0.4822 ppm	0.5025 ppm	0.4800 ppm
Recovery Percentage 1	98.066 %	105.719 %	99.612 %	97.316 %	97.378 %	100.319 %	96.452 %
Concentration RSD	0.5 %	1.0 %	1.2 %	4.1 %	0.9 %	0.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4859 ppm	104.7067 %	106.5443 %	101.9782 %	104.5637 %	104.8355 %	102.5071 %
Concentration per Run 1	0.4885 ppm	104.9981 %	104.6075 %	102.8638 %	105.0961 %	103.9912 %	103.1294 %
Concentration per Run 2	0.4868 ppm	103.3199 %	112.1089 %	101.5037 %	103.3934 %	107.9293 %	102.1511 %
Concentration per Run 3	0.4824 ppm	105.8023 %	102.9164 %	101.5671 %	105.2015 %	102.5860 %	102.2407 %
Recovery Percentage 1	97.182 %						
Concentration RSD	0.6 %	1.2 %	4.6 %	0.8 %	1.0 %	2.6 %	0.5 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCB
Analysis started at: 6/20/2024 9:41:12 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0002 ppm	0.0016 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	0.0007 ppm	-0.0012 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0065 ppm
Concentration per Run 2	0.0009 ppm	0.0008 ppm	0.0015 ppm	0.0009 ppm	-0.0001 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 3	0.0011 ppm	0.0010 ppm	0.0014 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0040 ppm
Recovery Percentage 1	12.625 %	0.238 %	31.446 %	1.788 %	0.006 %	1.203 %	3.080 %
Concentration RSD	21.0 %	513.8 %	15.6 %	141.5 %	13,576.4 %	90.4 %	127.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0015 ppm	0.0100 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0009 ppm	0.0017 ppm	-0.0006 ppm	-0.0018 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0009 ppm	0.0004 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0017 ppm	0.0302 ppm	-0.0004 ppm
Recovery Percentage 1	-0.494 %	1.144 %	0.747 %	5.785 %	2.931 %	0.400 %	-21.271 %
Concentration RSD	475.3 %	25.5 %	528.4 %	47.2 %	32.0 %	175.3 %	65.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0002 ppm	0.0053 ppm	0.0084 ppm	0.0000 ppm	-0.0002 ppm	0.0037 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0051 ppm	-0.0004 ppm	-0.0010 ppm	-0.0005 ppm	0.0041 ppm
Concentration per Run 2	-0.0007 ppm	-0.0001 ppm	0.0055 ppm	0.0112 ppm	0.0005 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 3	-0.0018 ppm	-0.0003 ppm	0.0052 ppm	0.0144 ppm	0.0006 ppm	-0.0001 ppm	0.0011 ppm
Recovery Percentage 1	-0.810 %	-1.778 %	10.563 %	0.420 %	0.095 %	-2.001 %	7.325 %
Concentration RSD	117.1 %	49.3 %	3.8 %	93.2 %	3,744.9 %	142.1 %	65.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	-0.0043 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0055 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 2	0.0045 ppm	-0.0025 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0021 ppm	-0.0050 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0005 ppm
Recovery Percentage 1	8.022 %	-0.865 %	0.420 %	1.468 %	-0.607 %	0.624 %	-3.106 %
Concentration RSD	422.3 %	36.8 %	145.4 %	13.0 %	200.6 %	282.7 %	59.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	104.2880 %	104.1997 %	103.2576 %	105.1560 %	104.9669 %	103.5367 %
Concentration per Run 1	0.0000 ppm	104.7194 %	102.1617 %	104.9771 %	105.4746 %	103.2274 %	105.2084 %
Concentration per Run 2	-0.0001 ppm	104.8278 %	105.1816 %	102.0560 %	105.7974 %	106.3897 %	102.4155 %
Concentration per Run 3	-0.0004 ppm	103.3167 %	105.2557 %	102.7397 %	104.1961 %	105.2837 %	102.9861 %
Recovery Percentage 1	-2.740 %						
Concentration RSD	139.8 %	0.8 %	1.7 %	1.5 %	0.8 %	1.5 %	1.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936544-1 WG1936544
Analysis started at: 6/20/2024 9:56:37 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0168 ppm	0.0017 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0478 ppm
Concentration per Run 1	0.0012 ppm	0.0268 ppm	0.0020 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0516 ppm
Concentration per Run 2	0.0006 ppm	0.0142 ppm	0.0036 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0450 ppm
Concentration per Run 3	0.0005 ppm	0.0094 ppm	-0.0006 ppm	0.0020 ppm	0.0002 ppm	0.0001 ppm	0.0467 ppm
Recovery Percentage 1	10.615 %	16.786 %	33.173 %	2.251 %	3.881 %	1.691 %	47.782 %
Concentration RSD	55.0 %	53.4 %	125.4 %	169.4 %	39.9 %	39.5 %	7.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0010 ppm	0.0308 ppm	0.0131 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0011 ppm	0.0297 ppm	0.0229 ppm	-0.0024 ppm
Concentration per Run 2	-0.0002 ppm	-0.0003 ppm	0.0009 ppm	0.0007 ppm	0.0315 ppm	-0.0005 ppm	-0.0012 ppm
Concentration per Run 3	-0.0002 ppm	0.0005 ppm	0.0006 ppm	0.0012 ppm	0.0310 ppm	0.0167 ppm	-0.0012 ppm
Recovery Percentage 1	-2.245 %	0.054 %	7.338 %	9.910 %	61.505 %	0.522 %	-31.686 %
Concentration RSD	117.6 %	4,022.3 %	24.1 %	21.6 %	2.9 %	93.2 %	44.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0051 ppm	0.0031 ppm	0.0012 ppm	0.0318 ppm	-0.0007 ppm	-0.0004 ppm	0.0031 ppm
Concentration per Run 1	0.0049 ppm	0.0032 ppm	0.0015 ppm	0.0360 ppm	-0.0019 ppm	-0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0060 ppm	0.0030 ppm	0.0007 ppm	0.0303 ppm	0.0009 ppm	-0.0017 ppm	0.0054 ppm
Concentration per Run 3	0.0044 ppm	0.0031 ppm	0.0014 ppm	0.0291 ppm	-0.0011 ppm	0.0007 ppm	0.0007 ppm
Recovery Percentage 1	5.085 %	30.947 %	2.397 %	1.591 %	-2.810 %	-3.781 %	6.216 %
Concentration RSD	15.5 %	4.2 %	34.2 %	11.6 %	206.9 %	316.9 %	75.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0136 ppm	0.0007 ppm	0.0003 ppm	0.0003 ppm	-0.0023 ppm	0.0000 ppm
Concentration per Run 1	-0.0027 ppm	0.0142 ppm	0.0010 ppm	0.0003 ppm	0.0004 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0015 ppm	0.0129 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0041 ppm	0.0002 ppm
Concentration per Run 3	0.0010 ppm	0.0136 ppm	0.0007 ppm	0.0003 ppm	0.0003 ppm	-0.0015 ppm	-0.0003 ppm
Recovery Percentage 1	-0.678 %	2.715 %	1.314 %	2.971 %	2.616 %	-11.422 %	0.447 %
Concentration RSD	3,424.1 %	5.0 %	45.6 %	6.0 %	82.7 %	69.9 %	739.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	104.2421 %	103.4036 %	101.2245 %	104.2718 %	103.4049 %	101.6985 %
Concentration per Run 1	0.0020 ppm	104.1332 %	103.1805 %	101.2409 %	103.9622 %	102.9359 %	101.9243 %
Concentration per Run 2	0.0025 ppm	104.2343 %	103.0512 %	100.5369 %	104.4270 %	103.3788 %	100.8447 %
Concentration per Run 3	0.0022 ppm	104.3589 %	103.9792 %	101.8956 %	104.4262 %	103.8998 %	102.3263 %
Recovery Percentage 1	44.174 %						
Concentration RSD	11.8 %	0.1 %	0.5 %	0.7 %	0.3 %	0.5 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936544-2D2 WG1936544
Analysis started at: 6/20/2024 10:00:23 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0550 ppm	2.2511 ppm	0.1275 ppm	1.0443 ppm	2.1573 ppm	0.0551 ppm	10.4429 ppm
Concentration per Run 1	0.0553 ppm	2.2691 ppm	0.1263 ppm	1.0552 ppm	2.1773 ppm	0.0556 ppm	10.5120 ppm
Concentration per Run 2	0.0548 ppm	2.2588 ppm	0.1257 ppm	1.0432 ppm	2.1450 ppm	0.0547 ppm	10.4354 ppm
Concentration per Run 3	0.0549 ppm	2.2254 ppm	0.1306 ppm	1.0346 ppm	2.1495 ppm	0.0550 ppm	10.3814 ppm
Concentration RSD	0.5 %	1.0 %	2.1 %	1.0 %	0.8 %	0.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0577 ppm	0.5444 ppm	0.2128 ppm	0.2732 ppm	1.0932 ppm	10.8104 ppm	-0.0021 ppm
Concentration per Run 1	0.0573 ppm	0.5455 ppm	0.2137 ppm	0.2760 ppm	1.1067 ppm	10.9135 ppm	-0.0019 ppm
Concentration per Run 2	0.0574 ppm	0.5459 ppm	0.2136 ppm	0.2730 ppm	1.0924 ppm	10.7412 ppm	-0.0015 ppm
Concentration per Run 3	0.0582 ppm	0.5419 ppm	0.2111 ppm	0.2707 ppm	1.0806 ppm	10.7765 ppm	-0.0030 ppm
Concentration RSD	0.8 %	0.4 %	0.7 %	1.0 %	1.2 %	0.8 %	36.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2980 ppm	0.5273 ppm	1.0870 ppm	10.7557 ppm	0.5216 ppm	0.5706 ppm	0.5527 ppm
Concentration per Run 1	10.3513 ppm	0.5325 ppm	1.0818 ppm	10.9119 ppm	0.5255 ppm	0.5641 ppm	0.5549 ppm
Concentration per Run 2	10.2893 ppm	0.5256 ppm	1.0897 ppm	10.7182 ppm	0.5233 ppm	0.5760 ppm	0.5530 ppm
Concentration per Run 3	10.2536 ppm	0.5237 ppm	1.0895 ppm	10.6369 ppm	0.5159 ppm	0.5717 ppm	0.5501 ppm
Concentration RSD	0.5 %	0.9 %	0.4 %	1.3 %	1.0 %	1.1 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1265 ppm	1.0878 ppm	1.0653 ppm	1.0088 ppm	1.0463 ppm	0.1300 ppm	0.5396 ppm
Concentration per Run 1	0.1238 ppm	1.0959 ppm	1.0810 ppm	1.0231 ppm	1.0501 ppm	0.1287 ppm	0.5446 ppm
Concentration per Run 2	0.1296 ppm	1.0876 ppm	1.0672 ppm	1.0009 ppm	1.0479 ppm	0.1305 ppm	0.5375 ppm
Concentration per Run 3	0.1261 ppm	1.0798 ppm	1.0478 ppm	1.0023 ppm	1.0408 ppm	0.1306 ppm	0.5367 ppm
Concentration RSD	2.3 %	0.7 %	1.6 %	1.2 %	0.5 %	0.8 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5243 ppm	103.2243 %	105.4704 %	98.3692 %	102.5565 %	105.2688 %	99.9653 %
Concentration per Run 1	0.5288 ppm	102.3433 %	106.2320 %	99.7123 %	102.2387 %	106.0609 %	101.3017 %
Concentration per Run 2	0.5258 ppm	102.8452 %	105.0674 %	97.4713 %	101.9493 %	104.5564 %	99.1144 %
Concentration per Run 3	0.5183 ppm	104.4846 %	105.1118 %	97.9241 %	103.4817 %	105.1890 %	99.4797 %
Concentration RSD	1.0 %	1.1 %	0.6 %	1.2 %	0.8 %	0.7 %	1.2 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433218-06D2 WG1936544
Analysis started at: 6/20/2024 10:03:53 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	44.1792 ppm	0.0999 ppm	0.0140 ppm	0.5898 ppm	0.0034 ppm	290.9699 ppm
Concentration per Run 1	0.0014 ppm	44.1184 ppm	0.0995 ppm	0.0133 ppm	0.5898 ppm	0.0034 ppm	290.3373 ppm
Concentration per Run 2	0.0015 ppm	44.0502 ppm	0.0955 ppm	0.0134 ppm	0.5861 ppm	0.0034 ppm	290.4439 ppm
Concentration per Run 3	0.0017 ppm	44.3690 ppm	0.1046 ppm	0.0154 ppm	0.5935 ppm	0.0035 ppm	292.1284 ppm
Concentration RSD	8.5 %	0.4 %	4.6 %	8.4 %	0.6 %	1.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0026 ppm	0.0475 ppm	0.0753 ppm	0.4542 ppm	133.1645 ppm	4.4703 ppm	0.0541 ppm
Concentration per Run 1	0.0027 ppm	0.0473 ppm	0.0746 ppm	0.4553 ppm	133.2341 ppm	4.4785 ppm	0.0547 ppm
Concentration per Run 2	0.0025 ppm	0.0471 ppm	0.0756 ppm	0.4501 ppm	133.4079 ppm	4.4203 ppm	0.0530 ppm
Concentration per Run 3	0.0026 ppm	0.0480 ppm	0.0755 ppm	0.4573 ppm	132.8515 ppm	4.5123 ppm	0.0547 ppm
Concentration RSD	3.9 %	1.0 %	0.7 %	0.8 %	0.2 %	1.0 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6286 ppm	1.9784 ppm	0.0341 ppm	2.8042 ppm	0.1280 ppm	0.1648 ppm	0.0048 ppm
Concentration per Run 1	14.5968 ppm	1.9644 ppm	0.0331 ppm	2.7991 ppm	0.1290 ppm	0.1650 ppm	0.0082 ppm
Concentration per Run 2	14.6465 ppm	1.9823 ppm	0.0342 ppm	2.7863 ppm	0.1277 ppm	0.1564 ppm	0.0036 ppm
Concentration per Run 3	14.6425 ppm	1.9884 ppm	0.0349 ppm	2.8272 ppm	0.1273 ppm	0.1730 ppm	0.0027 ppm
Concentration RSD	0.2 %	0.6 %	2.6 %	0.7 %	0.7 %	5.1 %	61.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	3.4059 ppm	0.0148 ppm	1.2999 ppm	2.4710 ppm	0.0020 ppm	0.1851 ppm
Concentration per Run 1	0.0013 ppm	3.4104 ppm	0.0145 ppm	1.3004 ppm	2.4592 ppm	0.0031 ppm	0.1853 ppm
Concentration per Run 2	0.0010 ppm	3.3938 ppm	0.0149 ppm	1.2930 ppm	2.4804 ppm	0.0000 ppm	0.1844 ppm
Concentration per Run 3	0.0032 ppm	3.4135 ppm	0.0151 ppm	1.3064 ppm	2.4734 ppm	0.0027 ppm	0.1854 ppm
Concentration RSD	64.4 %	0.3 %	2.3 %	0.5 %	0.4 %	85.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2023 ppm	100.9226 %	106.4065 %	91.6692 %	106.8226 %	114.0799 %	106.5328 %
Concentration per Run 1	1.1964 ppm	102.1488 %	106.3593 %	92.3515 %	108.0279 %	113.8682 %	107.3138 %
Concentration per Run 2	1.2066 ppm	100.0066 %	106.1987 %	95.3269 %	105.7123 %	113.1660 %	110.3804 %
Concentration per Run 3	1.2038 ppm	100.6122 %	106.6616 %	87.3293 %	106.7275 %	115.2054 %	101.9041 %
Concentration RSD	0.4 %	1.1 %	0.2 %	4.4 %	1.1 %	0.9 %	4.0 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: eL2433218-12D2 WG1936544
Analysis started at: 6/20/2024 10:07:20 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0156 ppm	36.7659 ppm	0.2765 ppm	0.0347 ppm	1.7669 ppm	0.0029 ppm	183.3953 ppm
Concentration per Run 1	0.0156 ppm	37.1191 ppm	0.2796 ppm	0.0369 ppm	1.7836 ppm	0.0030 ppm	184.7088 ppm
Concentration per Run 2	0.0150 ppm	36.4964 ppm	0.2709 ppm	0.0333 ppm	1.7652 ppm	0.0029 ppm	182.3667 ppm
Concentration per Run 3	0.0162 ppm	36.6822 ppm	0.2791 ppm	0.0340 ppm	1.7517 ppm	0.0029 ppm	183.1106 ppm
Concentration RSD	3.8 %	0.9 %	1.8 %	5.5 %	0.9 %	0.9 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0606 ppm	0.0894 ppm	0.1413 ppm	3.7545 ppm	397.3462 ppm	3.3914 ppm	0.0432 ppm
Concentration per Run 1	0.0605 ppm	0.0883 ppm	0.1408 ppm	3.7285 ppm	401.3651 ppm	3.4651 ppm	0.0447 ppm
Concentration per Run 2	0.0610 ppm	0.0895 ppm	0.1413 ppm	3.7810 ppm	396.3195 ppm	3.3662 ppm	0.0418 ppm
Concentration per Run 3	0.0603 ppm	0.0903 ppm	0.1416 ppm	3.7539 ppm	394.3539 ppm	3.3429 ppm	0.0430 ppm
Concentration RSD	0.6 %	1.1 %	0.3 %	0.7 %	0.9 %	1.9 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2595 ppm	3.1343 ppm	0.0456 ppm	1.6778 ppm	0.1627 ppm	3.5077 ppm	4.1005 ppm
Concentration per Run 1	10.2154 ppm	3.1490 ppm	0.0441 ppm	1.7060 ppm	0.1626 ppm	3.5596 ppm	4.0665 ppm
Concentration per Run 2	10.2555 ppm	3.1165 ppm	0.0457 ppm	1.6670 ppm	0.1621 ppm	3.4604 ppm	4.1232 ppm
Concentration per Run 3	10.3075 ppm	3.1375 ppm	0.0469 ppm	1.6606 ppm	0.1634 ppm	3.5031 ppm	4.1118 ppm
Concentration RSD	0.5 %	0.5 %	3.2 %	1.5 %	0.4 %	1.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0058 ppm	7.6985 ppm	**46.7561 ppm**	0.8896 ppm	1.6484 ppm	0.0038 ppm	0.2025 ppm
Concentration per Run 1	0.0073 ppm	7.6522 ppm	46.4270 ppm	0.8972 ppm	1.6376 ppm	0.0046 ppm	0.2019 ppm
Concentration per Run 2	0.0030 ppm	7.7255 ppm	47.2674 ppm	0.8893 ppm	1.6471 ppm	0.0050 ppm	0.2031 ppm
Concentration per Run 3	0.0070 ppm	7.7180 ppm	46.5738 ppm	0.8822 ppm	1.6607 ppm	0.0018 ppm	0.2027 ppm
Concentration RSD	41.6 %	0.5 %	1.0 %	0.8 %	0.7 %	46.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**23.1252 ppm**	99.5575 %	105.9564 %	89.5340 %	106.8398 %	114.0183 %	106.7129 %
Concentration per Run 1	23.0277 ppm	100.6747 %	105.2154 %	88.3315 %	107.5963 %	114.1013 %	105.5340 %
Concentration per Run 2	23.2189 ppm	98.9946 %	106.3469 %	90.0470 %	106.9154 %	113.8905 %	107.0196 %
Concentration per Run 3	23.1289 ppm	99.0032 %	106.3069 %	90.2234 %	106.0076 %	114.0631 %	107.5852 %
Concentration RSD	0.4 %	1.0 %	0.6 %	1.2 %	0.7 %	0.1 %	1.0 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: eL2433539-12D2 WG1936544
Analysis started at: 6/20/2024 10:10:48 AM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0269 ppm	46.1585 ppm	0.2572 ppm	0.0550 ppm	1.1838 ppm	0.0033 ppm	220.9796 ppm
Concentration per Run 1	0.0271 ppm	46.3914 ppm	0.2601 ppm	0.0528 ppm	1.1903 ppm	0.0034 ppm	221.9592 ppm
Concentration per Run 2	0.0261 ppm	46.1068 ppm	0.2553 ppm	0.0566 ppm	1.1829 ppm	0.0033 ppm	220.7490 ppm
Concentration per Run 3	0.0275 ppm	45.9774 ppm	0.2562 ppm	0.0556 ppm	1.1781 ppm	0.0033 ppm	220.2305 ppm
Concentration RSD	2.7 %	0.5 %	1.0 %	3.6 %	0.5 %	1.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0430 ppm	0.1573 ppm	7.2700 ppm	5.8098 ppm	879.0406 ppm	4.9194 ppm	0.0712 ppm
Concentration per Run 1	0.0438 ppm	0.1562 ppm	7.2680 ppm	5.7603 ppm	881.7707 ppm	4.9191 ppm	0.0730 ppm
Concentration per Run 2	0.0435 ppm	0.1603 ppm	7.2612 ppm	5.8275 ppm	877.2945 ppm	4.9075 ppm	0.0712 ppm
Concentration per Run 3	0.0416 ppm	0.1554 ppm	7.2808 ppm	5.8417 ppm	878.0567 ppm	4.9318 ppm	0.0695 ppm
Concentration RSD	2.8 %	1.7 %	0.1 %	0.7 %	0.3 %	0.2 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	70.1234 ppm	10.5125 ppm	0.3276 ppm	1.1728 ppm	4.1186 ppm	6.2397 ppm	0.0895 ppm
Concentration per Run 1	70.2847 ppm	10.5723 ppm	0.3204 ppm	1.1847 ppm	4.1297 ppm	6.2392 ppm	0.0820 ppm
Concentration per Run 2	70.0234 ppm	10.4886 ppm	0.3293 ppm	1.1625 ppm	4.1147 ppm	6.2682 ppm	0.0971 ppm
Concentration per Run 3	70.0620 ppm	10.4765 ppm	0.3330 ppm	1.1711 ppm	4.1114 ppm	6.2118 ppm	0.0892 ppm
Concentration RSD	0.2 %	0.5 %	2.0 %	1.0 %	0.2 %	0.5 %	8.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0182 ppm	7.2823 ppm	0.5453 ppm	0.3559 ppm	0.8962 ppm	0.0038 ppm	0.2330 ppm
Concentration per Run 1	0.0113 ppm	7.2412 ppm	0.5519 ppm	0.3581 ppm	0.8939 ppm	0.0051 ppm	0.2316 ppm
Concentration per Run 2	0.0186 ppm	7.2946 ppm	0.5468 ppm	0.3561 ppm	0.8951 ppm	0.0027 ppm	0.2340 ppm
Concentration per Run 3	0.0247 ppm	7.3112 ppm	0.5372 ppm	0.3535 ppm	0.8994 ppm	0.0037 ppm	0.2335 ppm
Concentration RSD	36.9 %	0.5 %	1.4 %	0.6 %	0.3 %	31.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.9206 ppm	97.4129 %	102.1382 %	80.2205 %	108.8779 %	115.7617 %	106.1143 %
Concentration per Run 1	6.9462 ppm	96.5303 %	102.2332 %	80.2498 %	107.3425 %	115.1867 %	106.3818 %
Concentration per Run 2	6.9285 ppm	97.4337 %	102.5629 %	79.8762 %	109.3305 %	115.6698 %	105.3611 %
Concentration per Run 3	6.8870 ppm	98.2747 %	101.6185 %	80.5354 %	109.9606 %	116.4285 %	106.6000 %
Concentration RSD	0.4 %	0.9 %	0.5 %	0.4 %	1.3 %	0.5 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: eL2433539-11D2 WG1936544
Analysis started at: 6/20/2024 10:14:16 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0142 ppm	35.3593 ppm	0.3567 ppm	0.0830 ppm	1.2388 ppm	0.0034 ppm	293.4077 ppm
Concentration per Run 1	0.0132 ppm	35.9361 ppm	0.3547 ppm	0.0827 ppm	1.2573 ppm	0.0035 ppm	297.7343 ppm
Concentration per Run 2	0.0139 ppm	35.0568 ppm	0.3586 ppm	0.0843 ppm	1.2356 ppm	0.0034 ppm	291.5092 ppm
Concentration per Run 3	0.0155 ppm	35.0850 ppm	0.3569 ppm	0.0820 ppm	1.2234 ppm	0.0034 ppm	290.9797 ppm
Concentration RSD	8.5 %	1.4 %	0.6 %	1.4 %	1.4 %	2.2 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0781 ppm	0.1300 ppm	0.9656 ppm	4.7485 ppm	1,120.9625 ppm	3.5158 ppm	0.0537 ppm
Concentration per Run 1	0.0788 ppm	0.1317 ppm	0.9662 ppm	4.7241 ppm	1,132.9955 ppm	3.5662 ppm	0.0557 ppm
Concentration per Run 2	0.0777 ppm	0.1298 ppm	0.9686 ppm	4.7787 ppm	1,121.2526 ppm	3.5185 ppm	0.0523 ppm
Concentration per Run 3	0.0779 ppm	0.1284 ppm	0.9621 ppm	4.7426 ppm	1,108.6395 ppm	3.4628 ppm	0.0530 ppm
Concentration RSD	0.8 %	1.3 %	0.3 %	0.6 %	1.1 %	1.5 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	114.8903 ppm	17.7687 ppm	0.2256 ppm	0.9775 ppm	2.0116 ppm	7.1042 ppm	0.0622 ppm
Concentration per Run 1	115.0785 ppm	18.0104 ppm	0.2211 ppm	0.9916 ppm	2.0117 ppm	7.0988 ppm	0.0635 ppm
Concentration per Run 2	115.1965 ppm	17.6456 ppm	0.2288 ppm	0.9769 ppm	2.0240 ppm	7.1218 ppm	0.0604 ppm
Concentration per Run 3	114.3959 ppm	17.6502 ppm	0.2271 ppm	0.9640 ppm	1.9992 ppm	7.0921 ppm	0.0627 ppm
Concentration RSD	0.4 %	1.2 %	1.8 %	1.4 %	0.6 %	0.2 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0159 ppm	8.2500 ppm	0.6492 ppm	0.4048 ppm	1.3179 ppm	0.0015 ppm	0.2289 ppm
Concentration per Run 1	0.0218 ppm	8.2013 ppm	0.6470 ppm	0.4106 ppm	1.3239 ppm	0.0017 ppm	0.2290 ppm
Concentration per Run 2	0.0120 ppm	8.3239 ppm	0.6499 ppm	0.4032 ppm	1.3197 ppm	0.0000 ppm	0.2316 ppm
Concentration per Run 3	0.0140 ppm	8.2248 ppm	0.6507 ppm	0.4005 ppm	1.3100 ppm	0.0027 ppm	0.2261 ppm
Concentration RSD	32.3 %	0.8 %	0.3 %	1.3 %	0.5 %	91.4 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.7290 ppm	95.6699 %	104.5791 %	74.6447 %	105.9360 %	116.3144 %	101.1590 %
Concentration per Run 1	7.7185 ppm	95.2953 %	103.6862 %	75.2344 %	104.6553 %	115.7691 %	101.9580 %
Concentration per Run 2	7.7905 ppm	95.7787 %	104.7973 %	74.4925 %	106.1650 %	117.0241 %	101.0463 %
Concentration per Run 3	7.6781 ppm	95.9357 %	105.2537 %	74.2071 %	106.9878 %	116.1500 %	100.4726 %
Concentration RSD	0.7 %	0.3 %	0.8 %	0.7 %	1.1 %	0.6 %	0.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433440-22 WG1936458
Analysis started at: 6/20/2024 10:23:01 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0237 ppm	0.0038 ppm	0.0092 ppm	0.0695 ppm	0.0000 ppm	14.5814 ppm
Concentration per Run 1	0.0009 ppm	0.0256 ppm	0.0031 ppm	0.0084 ppm	0.0695 ppm	0.0000 ppm	14.6018 ppm
Concentration per Run 2	0.0011 ppm	0.0277 ppm	0.0057 ppm	0.0088 ppm	0.0699 ppm	0.0000 ppm	14.5652 ppm
Concentration per Run 3	0.0005 ppm	0.0178 ppm	0.0027 ppm	0.0103 ppm	0.0691 ppm	0.0000 ppm	14.5772 ppm
Concentration RSD	34.7 %	22.1 %	41.4 %	11.3 %	0.6 %	249.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0144 ppm	0.0004 ppm	0.0008 ppm	17.7681 ppm	0.5410 ppm	0.0029 ppm
Concentration per Run 1	-0.0001 ppm	0.0144 ppm	0.0002 ppm	0.0008 ppm	17.7758 ppm	0.5591 ppm	0.0036 ppm
Concentration per Run 2	0.0000 ppm	0.0144 ppm	0.0006 ppm	0.0006 ppm	17.7962 ppm	0.5200 ppm	0.0024 ppm
Concentration per Run 3	0.0001 ppm	0.0145 ppm	0.0005 ppm	0.0010 ppm	17.7324 ppm	0.5438 ppm	0.0027 ppm
Concentration RSD	1,437.7 %	0.5 %	40.1 %	28.4 %	0.2 %	3.6 %	19.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5045 ppm	0.2564 ppm	0.0008 ppm	140.1579 ppm	0.0618 ppm	0.0030 ppm	0.0053 ppm
Concentration per Run 1	0.5051 ppm	0.2571 ppm	0.0007 ppm	140.3903 ppm	0.0626 ppm	0.0030 ppm	0.0046 ppm
Concentration per Run 2	0.5091 ppm	0.2567 ppm	0.0013 ppm	139.6502 ppm	0.0617 ppm	0.0031 ppm	0.0077 ppm
Concentration per Run 3	0.4993 ppm	0.2555 ppm	0.0006 ppm	140.4333 ppm	0.0613 ppm	0.0030 ppm	0.0035 ppm
Concentration RSD	1.0 %	0.3 %	42.9 %	0.3 %	1.1 %	2.2 %	41.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.9169 ppm	0.0205 ppm	0.0372 ppm	0.0001 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 1	0.0032 ppm	0.9161 ppm	0.0226 ppm	0.0372 ppm	-0.0003 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 2	-0.0019 ppm	0.9162 ppm	0.0205 ppm	0.0372 ppm	0.0001 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 3	-0.0021 ppm	0.9183 ppm	0.0184 ppm	0.0371 ppm	0.0004 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	1,156.7 %	0.1 %	10.1 %	0.1 %	654.1 %	21.1 %	146.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0942 ppm	99.6333 %	102.9441 %	91.6294 %	98.7672 %	103.0112 %	97.0052 %
Concentration per Run 1	0.0945 ppm	99.6377 %	102.7066 %	91.5468 %	98.5167 %	102.1229 %	97.1701 %
Concentration per Run 2	0.0942 ppm	99.1811 %	102.8352 %	91.8189 %	98.1692 %	103.1702 %	97.1605 %
Concentration per Run 3	0.0938 ppm	100.0812 %	103.2906 %	91.5225 %	99.6157 %	103.7406 %	96.6850 %
Concentration RSD	0.4 %	0.5 %	0.3 %	0.2 %	0.8 %	0.8 %	0.3 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433440-23 WG1936458
Analysis started at: 6/20/2024 10:26:43 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0414 ppm	0.0015 ppm	0.0034 ppm	0.0931 ppm	0.0000 ppm	27.9064 ppm
Concentration per Run 1	0.0006 ppm	0.0439 ppm	0.0015 ppm	0.0036 ppm	0.0929 ppm	0.0000 ppm	27.9798 ppm
Concentration per Run 2	0.0005 ppm	0.0380 ppm	0.0021 ppm	0.0037 ppm	0.0933 ppm	0.0001 ppm	27.6727 ppm
Concentration per Run 3	0.0006 ppm	0.0422 ppm	0.0008 ppm	0.0030 ppm	0.0931 ppm	0.0000 ppm	28.0665 ppm
Concentration RSD	16.5 %	7.4 %	43.9 %	11.8 %	0.2 %	228.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0023 ppm	0.0003 ppm	0.0043 ppm	0.0322 ppm	0.7050 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0023 ppm	0.0003 ppm	0.0043 ppm	0.0327 ppm	0.7271 ppm	0.0023 ppm
Concentration per Run 2	0.0003 ppm	0.0028 ppm	0.0000 ppm	0.0045 ppm	0.0312 ppm	0.6768 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0020 ppm	0.0006 ppm	0.0041 ppm	0.0325 ppm	0.7111 ppm	0.0013 ppm
Concentration RSD	115.1 %	16.7 %	109.0 %	5.6 %	2.6 %	3.6 %	57.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2488 ppm	0.1493 ppm	0.0005 ppm	138.6360 ppm	0.0044 ppm	0.0174 ppm	0.0058 ppm
Concentration per Run 1	1.2443 ppm	0.1489 ppm	0.0004 ppm	138.2266 ppm	0.0046 ppm	0.0169 ppm	0.0032 ppm
Concentration per Run 2	1.2573 ppm	0.1485 ppm	0.0004 ppm	138.1436 ppm	0.0042 ppm	0.0173 ppm	0.0059 ppm
Concentration per Run 3	1.2449 ppm	0.1504 ppm	0.0006 ppm	139.5378 ppm	0.0045 ppm	0.0180 ppm	0.0083 ppm
Concentration RSD	0.6 %	0.7 %	25.8 %	0.6 %	4.9 %	3.2 %	43.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	0.4883 ppm	0.0047 ppm	0.0489 ppm	0.0009 ppm	-0.0022 ppm	-0.0001 ppm
Concentration per Run 1	0.0033 ppm	0.4813 ppm	0.0036 ppm	0.0490 ppm	0.0011 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 2	0.0028 ppm	0.4913 ppm	0.0060 ppm	0.0486 ppm	0.0009 ppm	-0.0022 ppm	-0.0001 ppm
Concentration per Run 3	-0.0007 ppm	0.4922 ppm	0.0044 ppm	0.0491 ppm	0.0008 ppm	-0.0024 ppm	-0.0002 ppm
Concentration RSD	122.7 %	1.2 %	25.7 %	0.5 %	12.7 %	7.1 %	197.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0607 ppm	100.3075 %	102.2346 %	92.7978 %	99.0103 %	102.0861 %	98.6384 %
Concentration per Run 1	0.0601 ppm	100.8598 %	101.4949 %	93.2248 %	99.2045 %	101.3508 %	99.1149 %
Concentration per Run 2	0.0606 ppm	100.3509 %	103.0812 %	92.5689 %	99.5317 %	102.5500 %	98.3020 %
Concentration per Run 3	0.0613 ppm	99.7119 %	102.1276 %	92.5998 %	98.2948 %	102.3573 %	98.4983 %
Concentration RSD	0.9 %	0.6 %	0.8 %	0.4 %	0.6 %	0.6 %	0.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433440-26 WG1936458
Analysis started at: 6/20/2024 10:30:11 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0144 ppm	**0.0037 ppm**	0.0070 ppm	0.0580 ppm	0.0000 ppm	57.4985 ppm
Concentration per Run 1	0.0004 ppm	0.0099 ppm	0.0053 ppm	0.0061 ppm	0.0585 ppm	-0.0001 ppm	57.7463 ppm
Concentration per Run 2	0.0009 ppm	0.0173 ppm	0.0008 ppm	0.0074 ppm	0.0582 ppm	0.0000 ppm	57.5339 ppm
Concentration per Run 3	0.0007 ppm	0.0160 ppm	0.0050 ppm	0.0073 ppm	0.0574 ppm	0.0000 ppm	57.2152 ppm
Concentration RSD	41.7 %	27.6 %	**67.0 %**	10.2 %	0.9 %	352.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0030 ppm	0.0019 ppm	0.0002 ppm	0.0024 ppm	0.0095 ppm	0.5673 ppm	0.0019 ppm
Concentration per Run 1	0.0029 ppm	0.0018 ppm	0.0002 ppm	0.0025 ppm	0.0101 ppm	0.6027 ppm	0.0034 ppm
Concentration per Run 2	0.0029 ppm	0.0018 ppm	0.0000 ppm	0.0023 ppm	0.0084 ppm	0.5599 ppm	-0.0001 ppm
Concentration per Run 3	0.0031 ppm	0.0020 ppm	0.0004 ppm	0.0026 ppm	0.0100 ppm	0.5394 ppm	0.0024 ppm
Concentration RSD	2.9 %	7.1 %	87.0 %	5.3 %	10.2 %	5.7 %	95.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.3614 ppm	0.1222 ppm	0.0009 ppm	136.9095 ppm	0.0028 ppm	0.0491 ppm	0.0050 ppm
Concentration per Run 1	1.3722 ppm	0.1225 ppm	0.0006 ppm	137.2076 ppm	0.0032 ppm	0.0470 ppm	0.0028 ppm
Concentration per Run 2	1.3566 ppm	0.1229 ppm	0.0011 ppm	137.6594 ppm	0.0027 ppm	0.0507 ppm	0.0039 ppm
Concentration per Run 3	1.3554 ppm	0.1211 ppm	0.0009 ppm	135.8616 ppm	0.0024 ppm	0.0497 ppm	0.0083 ppm
Concentration RSD	0.7 %	0.8 %	27.2 %	0.7 %	14.3 %	3.9 %	58.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.9710 ppm	0.0011 ppm	0.2645 ppm	0.0004 ppm	-0.0021 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.9746 ppm	0.0008 ppm	0.2665 ppm	0.0003 ppm	-0.0025 ppm	0.0000 ppm
Concentration per Run 2	0.0027 ppm	0.9762 ppm	0.0007 ppm	0.2649 ppm	0.0003 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0022 ppm	0.9622 ppm	0.0018 ppm	0.2623 ppm	0.0008 ppm	-0.0025 ppm	-0.0001 ppm
Concentration RSD	93.7 %	0.8 %	55.5 %	0.8 %	61.0 %	34.6 %	100.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4490 ppm	99.5620 %	103.1977 %	92.2488 %	98.3173 %	102.9611 %	98.0387 %
Concentration per Run 1	0.4518 ppm	99.2240 %	102.6141 %	93.4150 %	97.5615 %	102.0163 %	99.2558 %
Concentration per Run 2	0.4483 ppm	99.0198 %	103.0969 %	92.5280 %	97.7544 %	103.4060 %	98.2663 %
Concentration per Run 3	0.4469 ppm	100.4421 %	103.8821 %	90.8035 %	99.6359 %	103.4609 %	96.5939 %
Concentration RSD	0.6 %	0.8 %	0.6 %	1.4 %	1.2 %	0.8 %	1.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433440-27 WG1936458
Analysis started at: 6/20/2024 10:33:39 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0195 ppm	0.0039 ppm	0.0176 ppm	0.0500 ppm	0.0000 ppm	75.3864 ppm
Concentration per Run 1	-0.0001 ppm	0.0293 ppm	0.0031 ppm	0.0164 ppm	0.0502 ppm	0.0000 ppm	75.4092 ppm
Concentration per Run 2	0.0004 ppm	0.0133 ppm	0.0028 ppm	0.0181 ppm	0.0502 ppm	0.0000 ppm	75.4008 ppm
Concentration per Run 3	0.0001 ppm	0.0158 ppm	0.0057 ppm	0.0184 ppm	0.0497 ppm	0.0000 ppm	75.3492 ppm
Concentration RSD	142.2 %	44.0 %	42.1 %	6.0 %	0.6 %	52.7 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0017 ppm	0.0004 ppm	0.0031 ppm	0.0179 ppm	0.4049 ppm	0.0022 ppm
Concentration per Run 1	0.0009 ppm	0.0022 ppm	0.0009 ppm	0.0032 ppm	0.0170 ppm	0.4159 ppm	0.0037 ppm
Concentration per Run 2	0.0008 ppm	0.0014 ppm	0.0000 ppm	0.0028 ppm	0.0178 ppm	0.4089 ppm	0.0004 ppm
Concentration per Run 3	0.0010 ppm	0.0014 ppm	0.0003 ppm	0.0034 ppm	0.0188 ppm	0.3899 ppm	0.0025 ppm
Concentration RSD	10.3 %	27.2 %	115.4 %	9.8 %	5.2 %	3.3 %	75.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8647 ppm	0.1019 ppm	0.0016 ppm	136.7703 ppm	0.0042 ppm	0.0367 ppm	0.0062 ppm
Concentration per Run 1	0.8626 ppm	0.1021 ppm	0.0018 ppm	137.1198 ppm	0.0041 ppm	0.0364 ppm	0.0061 ppm
Concentration per Run 2	0.8665 ppm	0.1019 ppm	0.0014 ppm	136.5821 ppm	0.0041 ppm	0.0381 ppm	0.0080 ppm
Concentration per Run 3	0.8651 ppm	0.1017 ppm	0.0016 ppm	136.6089 ppm	0.0043 ppm	0.0356 ppm	0.0046 ppm
Concentration RSD	0.2 %	0.2 %	11.8 %	0.2 %	2.2 %	3.4 %	27.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	3.7307 ppm	0.0015 ppm	0.0824 ppm	0.0005 ppm	-0.0009 ppm	0.0008 ppm
Concentration per Run 1	0.0010 ppm	3.7152 ppm	0.0012 ppm	0.0827 ppm	0.0006 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 2	-0.0015 ppm	3.7258 ppm	0.0002 ppm	0.0826 ppm	0.0004 ppm	-0.0014 ppm	0.0006 ppm
Concentration per Run 3	-0.0003 ppm	3.7511 ppm	0.0030 ppm	0.0820 ppm	0.0006 ppm	-0.0007 ppm	0.0009 ppm
Concentration RSD	442.5 %	0.5 %	94.7 %	0.5 %	24.9 %	51.1 %	22.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2759 ppm	99.9630 %	104.7017 %	91.4346 %	98.9880 %	104.5506 %	97.5397 %
Concentration per Run 1	0.2758 ppm	99.9924 %	105.2305 %	90.5296 %	98.5814 %	104.7964 %	96.6594 %
Concentration per Run 2	0.2757 ppm	99.5486 %	104.1219 %	92.1666 %	98.5643 %	104.8349 %	98.2323 %
Concentration per Run 3	0.2761 ppm	100.3480 %	104.7527 %	91.6077 %	99.8184 %	104.0207 %	97.7273 %
Concentration RSD	0.1 %	0.4 %	0.5 %	0.9 %	0.7 %	0.4 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCV
Analysis started at: 6/20/2024 10:37:08 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4934 ppm	0.4992 ppm	0.4771 ppm	0.4800 ppm	0.4995 ppm	0.5095 ppm	0.4873 ppm
Concentration per Run 1	0.4900 ppm	0.4745 ppm	0.4788 ppm	0.4804 ppm	0.4779 ppm	0.4873 ppm	0.4700 ppm
Concentration per Run 2	0.4937 ppm	0.5272 ppm	0.4758 ppm	0.4805 ppm	0.5210 ppm	0.5312 ppm	0.5062 ppm
Concentration per Run 3	0.4967 ppm	0.4959 ppm	0.4767 ppm	0.4790 ppm	0.4995 ppm	0.5100 ppm	0.4858 ppm
Recovery Percentage 1	98.688 %	99.842 %	95.426 %	95.994 %	99.895 %	101.894 %	97.469 %
Concentration RSD	0.7 %	5.3 %	0.3 %	0.2 %	4.3 %	4.3 %	3.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4932 ppm	0.4967 ppm	0.4757 ppm	0.4884 ppm	0.5096 ppm	5.1632 ppm	0.6218 ppm
Concentration per Run 1	0.4967 ppm	0.4971 ppm	0.4743 ppm	0.4866 ppm	0.4846 ppm	4.9694 ppm	0.5974 ppm
Concentration per Run 2	0.4906 ppm	0.4967 ppm	0.4746 ppm	0.4904 ppm	0.5373 ppm	5.3936 ppm	0.6465 ppm
Concentration per Run 3	0.4924 ppm	0.4962 ppm	0.4783 ppm	0.4884 ppm	0.5069 ppm	5.1266 ppm	0.6214 ppm
Recovery Percentage 1	98.644 %	99.337 %	95.147 %	97.688 %	101.921 %	103.264 %	124.351 %
Concentration RSD	0.6 %	0.1 %	0.5 %	0.4 %	5.2 %	4.2 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4688 ppm	0.4842 ppm	0.4868 ppm	10.0885 ppm	0.4864 ppm	0.4908 ppm	0.4969 ppm
Concentration per Run 1	0.4680 ppm	0.4644 ppm	0.4812 ppm	9.7241 ppm	0.4881 ppm	0.4909 ppm	0.5004 ppm
Concentration per Run 2	0.4692 ppm	0.5044 ppm	0.4872 ppm	10.4599 ppm	0.4845 ppm	0.4897 ppm	0.4998 ppm
Concentration per Run 3	0.4692 ppm	0.4837 ppm	0.4921 ppm	10.0816 ppm	0.4867 ppm	0.4918 ppm	0.4905 ppm
Recovery Percentage 1	93.757 %	96.831 %	97.363 %	100.885 %	97.290 %	98.162 %	99.384 %
Concentration RSD	0.2 %	4.1 %	1.1 %	3.6 %	0.4 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4864 ppm	5.5185 ppm	0.4920 ppm	0.4883 ppm	0.4798 ppm	0.4972 ppm	0.4781 ppm
Concentration per Run 1	0.4930 ppm	5.5027 ppm	0.4925 ppm	0.4670 ppm	0.4763 ppm	0.4955 ppm	0.4766 ppm
Concentration per Run 2	0.4877 ppm	5.5050 ppm	0.4922 ppm	0.5091 ppm	0.4798 ppm	0.4975 ppm	0.4795 ppm
Concentration per Run 3	0.4786 ppm	5.5478 ppm	0.4913 ppm	0.4888 ppm	0.4831 ppm	0.4987 ppm	0.4781 ppm
Recovery Percentage 1	97.281 %	105.114 %	98.400 %	97.659 %	95.954 %	99.443 %	95.615 %
Concentration RSD	1.5 %	0.5 %	0.1 %	4.3 %	0.7 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4850 ppm	105.5995 %	105.4915 %	101.9339 %	105.8787 %	105.0485 %	102.1370 %
Concentration per Run 1	0.4857 ppm	105.3488 %	109.4604 %	100.9820 %	105.9435 %	107.8873 %	101.5717 %
Concentration per Run 2	0.4829 ppm	106.1489 %	101.7814 %	102.8034 %	107.0145 %	102.4055 %	102.8165 %
Concentration per Run 3	0.4863 ppm	105.3008 %	105.2328 %	102.0164 %	104.6782 %	104.8528 %	102.0226 %
Recovery Percentage 1	96.995 %						
Concentration RSD	0.4 %	0.5 %	3.6 %	0.9 %	1.1 %	2.6 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCB
Analysis started at: 6/20/2024 10:40:37 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0114 ppm	0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	0.0009 ppm	0.0091 ppm	0.0023 ppm	0.0022 ppm	0.0001 ppm	-0.0001 ppm	0.0030 ppm
Concentration per Run 2	0.0003 ppm	0.0198 ppm	0.0009 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.0009 ppm	0.0052 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0048 ppm
Recovery Percentage 1	10.157 %	11.384 %	24.103 %	1.784 %	-0.246 %	-0.378 %	3.286 %
Concentration RSD	51.4 %	66.6 %	78.1 %	282.3 %	504.1 %	462.2 %	42.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0264 ppm	-0.0005 ppm
Concentration per Run 1	-0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0234 ppm	-0.0004 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0011 ppm	0.0256 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	0.0009 ppm	-0.0003 ppm	0.0006 ppm	0.0026 ppm	0.0302 ppm	-0.0007 ppm
Recovery Percentage 1	0.870 %	1.515 %	-2.332 %	5.069 %	0.920 %	1.055 %	-10.886 %
Concentration RSD	430.5 %	165.5 %	35.5 %	11.4 %	416.2 %	13.2 %	22.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0001 ppm	0.0047 ppm	0.0162 ppm	0.0003 ppm	-0.0004 ppm	0.0076 ppm
Concentration per Run 1	-0.0009 ppm	-0.0001 ppm	0.0045 ppm	0.0203 ppm	-0.0002 ppm	0.0006 ppm	0.0047 ppm
Concentration per Run 2	0.0016 ppm	0.0001 ppm	0.0047 ppm	0.0163 ppm	0.0008 ppm	-0.0012 ppm	0.0118 ppm
Concentration per Run 3	-0.0030 ppm	-0.0001 ppm	0.0047 ppm	0.0120 ppm	0.0002 ppm	-0.0006 ppm	0.0063 ppm
Recovery Percentage 1	-0.768 %	-0.652 %	9.311 %	0.810 %	1.088 %	-4.152 %	15.177 %
Concentration RSD	297.1 %	159.8 %	2.8 %	25.5 %	175.7 %	217.1 %	49.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	-0.0037 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0011 ppm	-0.0002 ppm
Concentration per Run 1	-0.0015 ppm	-0.0034 ppm	-0.0006 ppm	0.0002 ppm	-0.0006 ppm	-0.0016 ppm	-0.0002 ppm
Concentration per Run 2	-0.0028 ppm	-0.0042 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	-0.0034 ppm	0.0007 ppm	0.0000 ppm	-0.0003 ppm	-0.0017 ppm	-0.0002 ppm
Recovery Percentage 1	-14.791 %	-0.737 %	0.138 %	1.330 %	-3.279 %	-5.459 %	-2.015 %
Concentration RSD	91.8 %	11.9 %	895.1 %	73.6 %	86.9 %	91.3 %	23.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	104.4319 %	103.0902 %	103.2762 %	106.0506 %	103.5022 %	103.3686 %
Concentration per Run 1	-0.0003 ppm	104.6908 %	104.0404 %	103.1544 %	106.6603 %	104.2136 %	103.3974 %
Concentration per Run 2	0.0000 ppm	104.2290 %	103.1083 %	103.1683 %	105.8946 %	103.2683 %	102.8728 %
Concentration per Run 3	-0.0003 ppm	104.3760 %	102.1219 %	103.5059 %	105.5969 %	103.0246 %	103.8355 %
Recovery Percentage 1	-3.688 %						
Concentration RSD	103.0 %	0.2 %	0.9 %	0.2 %	0.5 %	0.6 %	0.5 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433440-29 WG1936458
Analysis started at: 6/20/2024 10:47:16 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0176 ppm	0.0020 ppm	0.0206 ppm	0.0783 ppm	0.0000 ppm	37.0234 ppm
Concentration per Run 1	0.0010 ppm	0.0160 ppm	0.0031 ppm	0.0212 ppm	0.0784 ppm	0.0000 ppm	37.0939 ppm
Concentration per Run 2	0.0003 ppm	0.0214 ppm	0.0034 ppm	0.0210 ppm	0.0780 ppm	0.0000 ppm	36.9622 ppm
Concentration per Run 3	0.0009 ppm	0.0154 ppm	-0.0006 ppm	0.0195 ppm	0.0784 ppm	0.0000 ppm	37.0141 ppm
Concentration RSD	47.5 %	18.7 %	112.1 %	4.6 %	0.3 %	97.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0011 ppm	0.0002 ppm	0.0052 ppm	0.0058 ppm	0.5474 ppm	-0.0004 ppm
Concentration per Run 1	0.0002 ppm	0.0017 ppm	0.0005 ppm	0.0052 ppm	0.0049 ppm	0.5564 ppm	-0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0006 ppm	0.0003 ppm	0.0051 ppm	0.0063 ppm	0.5689 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	-0.0001 ppm	0.0054 ppm	0.0062 ppm	0.5168 ppm	-0.0007 ppm
Concentration RSD	23.9 %	50.0 %	124.2 %	2.9 %	13.1 %	5.0 %	69.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9503 ppm	0.0950 ppm	0.0011 ppm	135.0881 ppm	0.0033 ppm	0.0134 ppm	0.0052 ppm
Concentration per Run 1	0.9564 ppm	0.0948 ppm	0.0012 ppm	135.4283 ppm	0.0036 ppm	0.0135 ppm	0.0075 ppm
Concentration per Run 2	0.9499 ppm	0.0953 ppm	0.0009 ppm	134.5154 ppm	0.0038 ppm	0.0133 ppm	0.0031 ppm
Concentration per Run 3	0.9447 ppm	0.0949 ppm	0.0012 ppm	135.3208 ppm	0.0026 ppm	0.0133 ppm	0.0052 ppm
Concentration RSD	0.6 %	0.3 %	17.8 %	0.4 %	20.5 %	0.9 %	42.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	0.3986 ppm	0.0011 ppm	0.0565 ppm	-0.0003 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	-0.0016 ppm	0.4017 ppm	0.0022 ppm	0.0564 ppm	0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 2	-0.0031 ppm	0.3956 ppm	0.0003 ppm	0.0564 ppm	-0.0005 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 3	-0.0019 ppm	0.3984 ppm	0.0008 ppm	0.0567 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration RSD	35.7 %	0.8 %	90.5 %	0.3 %	110.1 %	51.0 %	72.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0582 ppm	100.0012 %	104.5885 %	92.0116 %	99.1625 %	103.7699 %	97.0320 %
Concentration per Run 1	0.0586 ppm	100.2422 %	103.9525 %	92.2303 %	99.6430 %	103.4065 %	97.2428 %
Concentration per Run 2	0.0586 ppm	98.4841 %	104.3158 %	92.6235 %	97.3908 %	103.0602 %	97.6834 %
Concentration per Run 3	0.0575 ppm	101.2774 %	105.4972 %	91.1810 %	100.4538 %	104.8430 %	96.1699 %
Concentration RSD	1.1 %	1.4 %	0.8 %	0.8 %	1.6 %	0.9 %	0.8 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433493-02D2 WG1936544
Analysis started at: 6/20/2024 10:50:59 AM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0020 ppm	174.0078 ppm	0.0319 ppm	0.0112 ppm	1.4955 ppm	0.0087 ppm	340.1340 ppm
Concentration per Run 1	-0.0021 ppm	173.8059 ppm	0.0306 ppm	0.0127 ppm	1.4965 ppm	0.0087 ppm	340.0657 ppm
Concentration per Run 2	-0.0022 ppm	174.2583 ppm	0.0328 ppm	0.0092 ppm	1.5033 ppm	0.0087 ppm	339.6266 ppm
Concentration per Run 3	-0.0017 ppm	173.9591 ppm	0.0324 ppm	0.0115 ppm	1.4866 ppm	0.0087 ppm	340.7097 ppm
Concentration RSD	14.5 %	0.1 %	3.7 %	15.8 %	0.6 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0559 ppm	0.1324 ppm	0.1295 ppm	214.3089 ppm	71.9226 ppm	0.1815 ppm
Concentration per Run 1	0.0005 ppm	0.0556 ppm	0.1317 ppm	0.1279 ppm	214.2835 ppm	71.6435 ppm	0.1830 ppm
Concentration per Run 2	0.0005 ppm	0.0559 ppm	0.1331 ppm	0.1302 ppm	214.7037 ppm	72.8488 ppm	0.1812 ppm
Concentration per Run 3	0.0006 ppm	0.0561 ppm	0.1325 ppm	0.1305 ppm	213.9395 ppm	71.2756 ppm	0.1804 ppm
Concentration RSD	17.0 %	0.4 %	0.5 %	1.1 %	0.2 %	1.1 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	201.8487 ppm	4.0331 ppm	0.0022 ppm	3.5990 ppm	0.0644 ppm	0.2015 ppm	-0.0017 ppm
Concentration per Run 1	201.0210 ppm	4.0319 ppm	0.0019 ppm	3.6003 ppm	0.0658 ppm	0.2024 ppm	0.0026 ppm
Concentration per Run 2	201.9362 ppm	4.0355 ppm	0.0022 ppm	3.5905 ppm	0.0640 ppm	0.2014 ppm	-0.0060 ppm
Concentration per Run 3	202.5888 ppm	4.0319 ppm	0.0025 ppm	3.6060 ppm	0.0634 ppm	0.2007 ppm	-0.0016 ppm
Concentration RSD	0.4 %	0.1 %	15.1 %	0.2 %	1.9 %	0.4 %	259.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0041 ppm	10.6832 ppm	0.0171 ppm	0.5931 ppm	17.1960 ppm	0.0165 ppm	0.4702 ppm
Concentration per Run 1	-0.0047 ppm	10.5713 ppm	0.0172 ppm	0.5931 ppm	17.1462 ppm	0.0148 ppm	0.4679 ppm
Concentration per Run 2	-0.0050 ppm	10.7762 ppm	0.0171 ppm	0.5973 ppm	17.1597 ppm	0.0172 ppm	0.4714 ppm
Concentration per Run 3	-0.0026 ppm	10.7023 ppm	0.0171 ppm	0.5888 ppm	17.2822 ppm	0.0175 ppm	0.4714 ppm
Concentration RSD	32.2 %	1.0 %	0.3 %	0.7 %	0.4 %	9.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6447 ppm	103.5412 %	109.6405 %	91.2163 %	126.8867 %	133.7110 %	122.5181 %
Concentration per Run 1	0.6438 ppm	103.2910 %	109.2412 %	91.0985 %	126.0667 %	133.3105 %	122.5315 %
Concentration per Run 2	0.6460 ppm	103.5363 %	109.5809 %	91.2222 %	127.0645 %	133.4208 %	122.5462 %
Concentration per Run 3	0.6442 ppm	103.7964 %	110.0995 %	91.3282 %	127.5290 %	134.4017 %	122.4768 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.1 %	0.6 %	0.4 %	0.0 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433309-01D2 WG1936544
Analysis started at: 6/20/2024 10:54:27 AM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	107.3775 ppm	0.0522 ppm	0.0029 ppm	0.4152 ppm	0.0061 ppm	6.6802 ppm
Concentration per Run 1	0.0001 ppm	107.8777 ppm	0.0558 ppm	0.0036 ppm	0.4197 ppm	0.0062 ppm	6.7725 ppm
Concentration per Run 2	0.0006 ppm	107.6921 ppm	0.0505 ppm	0.0017 ppm	0.4142 ppm	0.0061 ppm	6.6640 ppm
Concentration per Run 3	0.0007 ppm	106.5626 ppm	0.0503 ppm	0.0033 ppm	0.4116 ppm	0.0059 ppm	6.6040 ppm
Concentration RSD	66.6 %	0.7 %	6.0 %	36.8 %	1.0 %	2.2 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0821 ppm	0.1296 ppm	0.1663 ppm	253.7365 ppm	4.2422 ppm	0.0992 ppm
Concentration per Run 1	0.0010 ppm	0.0831 ppm	0.1326 ppm	0.1687 ppm	258.0512 ppm	4.3185 ppm	0.0995 ppm
Concentration per Run 2	0.0012 ppm	0.0837 ppm	0.1321 ppm	0.1704 ppm	253.2679 ppm	4.2084 ppm	0.1005 ppm
Concentration per Run 3	0.0010 ppm	0.0794 ppm	0.1241 ppm	0.1600 ppm	249.8902 ppm	4.1998 ppm	0.0975 ppm
Concentration RSD	9.7 %	2.8 %	3.7 %	3.4 %	1.6 %	1.6 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.8855 ppm	3.1402 ppm	0.0065 ppm	0.5466 ppm	0.1210 ppm	0.1743 ppm	-0.0003 ppm
Concentration per Run 1	18.3548 ppm	3.1803 ppm	0.0071 ppm	0.5440 ppm	0.1227 ppm	0.1764 ppm	-0.0011 ppm
Concentration per Run 2	18.2115 ppm	3.1507 ppm	0.0064 ppm	0.5515 ppm	0.1231 ppm	0.1726 ppm	-0.0010 ppm
Concentration per Run 3	17.0902 ppm	3.0897 ppm	0.0061 ppm	0.5444 ppm	0.1172 ppm	0.1739 ppm	0.0011 ppm
Concentration RSD	3.9 %	1.5 %	7.5 %	0.8 %	2.7 %	1.1 %	379.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	2.8396 ppm	0.0112 ppm	0.0436 ppm	3.9096 ppm	0.0020 ppm	0.2915 ppm
Concentration per Run 1	0.0023 ppm	2.8926 ppm	0.0108 ppm	0.0441 ppm	3.9892 ppm	0.0017 ppm	0.2969 ppm
Concentration per Run 2	-0.0031 ppm	2.9061 ppm	0.0110 ppm	0.0435 ppm	3.9971 ppm	0.0028 ppm	0.2982 ppm
Concentration per Run 3	-0.0009 ppm	2.7201 ppm	0.0119 ppm	0.0431 ppm	3.7426 ppm	0.0015 ppm	0.2796 ppm
Concentration RSD	463.2 %	3.7 %	5.4 %	1.2 %	3.7 %	35.3 %	3.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5820 ppm	107.5854 %	112.0992 %	98.3814 %	140.6087 %	145.4648 %	138.4566 %
Concentration per Run 1	0.5921 ppm	105.1167 %	110.4129 %	97.6928 %	138.2485 %	143.8140 %	138.1288 %
Concentration per Run 2	0.5933 ppm	106.5080 %	112.9215 %	98.9095 %	139.4796 %	146.4771 %	138.5877 %
Concentration per Run 3	0.5605 ppm	111.1314 %	112.9632 %	98.5419 %	144.0981 %	146.1032 %	138.6535 %
Concentration RSD	3.2 %	2.9 %	1.3 %	0.6 %	2.2 %	1.0 %	0.2 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433218-12D5 WG1936544
Analysis started at: 6/20/2024 10:57:57 AM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0063 ppm	13.1103 ppm	0.0951 ppm	0.0116 ppm	0.6375 ppm	0.0010 ppm	66.0366 ppm
Concentration per Run 1	0.0062 ppm	13.0933 ppm	0.0955 ppm	0.0104 ppm	0.6371 ppm	0.0010 ppm	66.0308 ppm
Concentration per Run 2	0.0064 ppm	13.2351 ppm	0.0946 ppm	0.0117 ppm	0.6402 ppm	0.0010 ppm	66.3498 ppm
Concentration per Run 3	0.0064 ppm	13.0026 ppm	0.0951 ppm	0.0127 ppm	0.6352 ppm	0.0010 ppm	65.7293 ppm
Concentration RSD	1.7 %	0.9 %	0.5 %	9.7 %	0.4 %	1.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0209 ppm	0.0317 ppm	0.0485 ppm	1.2862 ppm	150.8511 ppm	1.2676 ppm	0.0139 ppm
Concentration per Run 1	0.0211 ppm	0.0317 ppm	0.0489 ppm	1.2801 ppm	150.6392 ppm	1.2964 ppm	0.0152 ppm
Concentration per Run 2	0.0209 ppm	0.0314 ppm	0.0478 ppm	1.2767 ppm	151.7521 ppm	1.2619 ppm	0.0139 ppm
Concentration per Run 3	0.0208 ppm	0.0320 ppm	0.0488 ppm	1.3018 ppm	150.1618 ppm	1.2446 ppm	0.0125 ppm
Concentration RSD	0.7 %	0.9 %	1.2 %	1.1 %	0.5 %	2.1 %	9.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.6199 ppm	1.1242 ppm	0.0147 ppm	0.6030 ppm	0.0556 ppm	1.2318 ppm	1.4314 ppm
Concentration per Run 1	3.6170 ppm	1.1258 ppm	0.0142 ppm	0.6051 ppm	0.0560 ppm	1.2379 ppm	1.4252 ppm
Concentration per Run 2	3.6052 ppm	1.1349 ppm	0.0147 ppm	0.6057 ppm	0.0551 ppm	1.2329 ppm	1.4232 ppm
Concentration per Run 3	3.6375 ppm	1.1118 ppm	0.0153 ppm	0.5982 ppm	0.0557 ppm	1.2247 ppm	1.4459 ppm
Concentration RSD	0.5 %	1.0 %	3.8 %	0.7 %	0.9 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	2.6262 ppm	16.5786 ppm	0.3206 ppm	0.5601 ppm	0.0010 ppm	0.0694 ppm
Concentration per Run 1	0.0035 ppm	2.6317 ppm	16.5310 ppm	0.3220 ppm	0.5600 ppm	0.0007 ppm	0.0695 ppm
Concentration per Run 2	-0.0011 ppm	2.6063 ppm	16.5083 ppm	0.3225 ppm	0.5562 ppm	0.0001 ppm	0.0689 ppm
Concentration per Run 3	0.0047 ppm	2.6406 ppm	16.6966 ppm	0.3174 ppm	0.5639 ppm	0.0022 ppm	0.0698 ppm
Concentration RSD	130.1 %	0.7 %	0.6 %	0.9 %	0.7 %	111.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.3251 ppm	103.6612 %	107.4791 %	94.6946 %	105.7912 %	109.4399 %	101.9341 %
Concentration per Run 1	8.3414 ppm	103.8250 %	107.3133 %	94.3152 %	105.7841 %	108.8975 %	101.2792 %
Concentration per Run 2	8.2762 ppm	104.0398 %	107.6547 %	94.7303 %	106.3295 %	110.3035 %	102.1518 %
Concentration per Run 3	8.3577 ppm	103.1187 %	107.4694 %	95.0383 %	105.2601 %	109.1187 %	102.3714 %
Concentration RSD	0.5 %	0.5 %	0.2 %	0.4 %	0.5 %	0.7 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433539-12D4 WG1936544
Analysis started at: 6/20/2024 11:01:27 AM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0128 ppm	21.6033 ppm	0.1167 ppm	0.0287 ppm	0.5549 ppm	0.0016 ppm	106.4208 ppm
Concentration per Run 1	0.0130 ppm	21.7233 ppm	0.1175 ppm	0.0283 ppm	0.5567 ppm	0.0016 ppm	107.5130 ppm
Concentration per Run 2	0.0131 ppm	21.3347 ppm	0.1151 ppm	0.0282 ppm	0.5511 ppm	0.0015 ppm	105.4548 ppm
Concentration per Run 3	0.0123 ppm	21.7518 ppm	0.1174 ppm	0.0297 ppm	0.5569 ppm	0.0016 ppm	106.2947 ppm
Concentration RSD	3.4 %	1.1 %	1.1 %	2.9 %	0.6 %	1.8 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0210 ppm	0.0762 ppm	3.5044 ppm	2.7564 ppm	458.3739 ppm	2.3170 ppm	0.0313 ppm
Concentration per Run 1	0.0211 ppm	0.0762 ppm	3.5125 ppm	2.7633 ppm	460.7888 ppm	2.3395 ppm	0.0334 ppm
Concentration per Run 2	0.0210 ppm	0.0759 ppm	3.4960 ppm	2.7402 ppm	454.6006 ppm	2.3070 ppm	0.0298 ppm
Concentration per Run 3	0.0210 ppm	0.0765 ppm	3.5048 ppm	2.7657 ppm	459.7323 ppm	2.3047 ppm	0.0309 ppm
Concentration RSD	0.5 %	0.4 %	0.2 %	0.5 %	0.7 %	0.8 %	5.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.1526 ppm	5.0030 ppm	0.1497 ppm	0.5513 ppm	1.9926 ppm	2.9027 ppm	0.0407 ppm
Concentration per Run 1	34.2854 ppm	5.0265 ppm	0.1468 ppm	0.5605 ppm	1.9962 ppm	2.9021 ppm	0.0429 ppm
Concentration per Run 2	34.0990 ppm	4.9477 ppm	0.1501 ppm	0.5463 ppm	1.9926 ppm	2.9058 ppm	0.0402 ppm
Concentration per Run 3	34.0735 ppm	5.0348 ppm	0.1520 ppm	0.5471 ppm	1.9890 ppm	2.9002 ppm	0.0390 ppm
Concentration RSD	0.3 %	1.0 %	1.8 %	1.4 %	0.2 %	0.1 %	5.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0081 ppm	3.4672 ppm	0.2660 ppm	0.1676 ppm	0.4226 ppm	0.0001 ppm	0.1113 ppm
Concentration per Run 1	0.0120 ppm	3.4745 ppm	0.2686 ppm	0.1683 ppm	0.4240 ppm	0.0019 ppm	0.1118 ppm
Concentration per Run 2	0.0061 ppm	3.4520 ppm	0.2677 ppm	0.1661 ppm	0.4228 ppm	0.0012 ppm	0.1112 ppm
Concentration per Run 3	0.0061 ppm	3.4751 ppm	0.2619 ppm	0.1683 ppm	0.4211 ppm	-0.0027 ppm	0.1109 ppm
Concentration RSD	42.4 %	0.4 %	1.4 %	0.7 %	0.3 %	1,692.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.3943 ppm	101.7098 %	106.2099 %	88.8721 %	106.5249 %	111.3239 %	103.1821 %
Concentration per Run 1	3.4009 ppm	101.1751 %	104.9448 %	89.1435 %	105.3864 %	110.7898 %	103.4156 %
Concentration per Run 2	3.3993 ppm	101.8299 %	107.2219 %	88.7184 %	106.6651 %	110.8431 %	102.9390 %
Concentration per Run 3	3.3828 ppm	102.1242 %	106.4630 %	88.7545 %	107.5233 %	112.3387 %	103.1918 %
Concentration RSD	0.3 %	0.5 %	1.1 %	0.3 %	1.0 %	0.8 %	0.2 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: L2433539-11D8 WG1936544
Analysis started at: 6/20/2024 11:04:57 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0047 ppm	8.5704 ppm	0.0790 ppm	0.0219 ppm	0.3036 ppm	0.0009 ppm	76.1448 ppm
Concentration per Run 1	0.0047 ppm	8.6302 ppm	0.0746 ppm	0.0205 ppm	0.3052 ppm	0.0009 ppm	76.6562 ppm
Concentration per Run 2	0.0047 ppm	8.5316 ppm	0.0813 ppm	0.0220 ppm	0.3042 ppm	0.0008 ppm	75.9993 ppm
Concentration per Run 3	0.0046 ppm	8.5494 ppm	0.0809 ppm	0.0233 ppm	0.3015 ppm	0.0009 ppm	75.7790 ppm
Concentration RSD	1.3 %	0.6 %	4.8 %	6.4 %	0.6 %	1.6 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0207 ppm	0.0337 ppm	0.2404 ppm	1.1585 ppm	342.5646 ppm	0.8955 ppm	0.0122 ppm
Concentration per Run 1	0.0207 ppm	0.0338 ppm	0.2402 ppm	1.1541 ppm	345.3155 ppm	0.9195 ppm	0.0134 ppm
Concentration per Run 2	0.0206 ppm	0.0338 ppm	0.2404 ppm	1.1684 ppm	341.6849 ppm	0.8697 ppm	0.0115 ppm
Concentration per Run 3	0.0209 ppm	0.0334 ppm	0.2405 ppm	1.1530 ppm	340.6936 ppm	0.8974 ppm	0.0117 ppm
Concentration RSD	0.7 %	0.7 %	0.0 %	0.7 %	0.7 %	2.8 %	8.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.9913 ppm	4.5556 ppm	0.0533 ppm	0.2435 ppm	0.5238 ppm	1.6872 ppm	0.0126 ppm
Concentration per Run 1	29.9994 ppm	4.5726 ppm	0.0522 ppm	0.2462 ppm	0.5228 ppm	1.6798 ppm	0.0075 ppm
Concentration per Run 2	30.0184 ppm	4.5382 ppm	0.0535 ppm	0.2424 ppm	0.5251 ppm	1.6861 ppm	0.0151 ppm
Concentration per Run 3	29.9560 ppm	4.5560 ppm	0.0543 ppm	0.2421 ppm	0.5234 ppm	1.6957 ppm	0.0152 ppm
Concentration RSD	0.1 %	0.4 %	2.0 %	1.0 %	0.2 %	0.5 %	34.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	2.0043 ppm	0.1748 ppm	0.0995 ppm	0.3212 ppm	0.0005 ppm	0.0573 ppm
Concentration per Run 1	0.0036 ppm	2.0012 ppm	0.1758 ppm	0.1003 ppm	0.3219 ppm	0.0012 ppm	0.0571 ppm
Concentration per Run 2	0.0020 ppm	2.0148 ppm	0.1754 ppm	0.0991 ppm	0.3216 ppm	-0.0001 ppm	0.0574 ppm
Concentration per Run 3	0.0044 ppm	1.9968 ppm	0.1731 ppm	0.0990 ppm	0.3200 ppm	0.0004 ppm	0.0574 ppm
Concentration RSD	36.3 %	0.5 %	0.8 %	0.7 %	0.3 %	134.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0908 ppm	102.9872 %	106.1237 %	92.1283 %	105.0788 %	108.2017 %	101.3967 %
Concentration per Run 1	2.0931 ppm	103.0164 %	105.4154 %	92.0274 %	105.4134 %	108.5305 %	101.5326 %
Concentration per Run 2	2.0854 ppm	103.5470 %	106.2764 %	91.9481 %	105.7433 %	107.4950 %	100.8952 %
Concentration per Run 3	2.0938 ppm	102.3983 %	106.6792 %	92.4093 %	104.0797 %	108.5795 %	101.7624 %
Concentration RSD	0.2 %	0.6 %	0.6 %	0.3 %	0.8 %	0.6 %	0.4 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936544-3D8 WG1936544
Analysis started at: 6/20/2024 11:08:27 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0173 ppm	11.4689 ppm	0.1208 ppm	0.2423 ppm	0.8315 ppm	0.0133 ppm	64.8520 ppm
Concentration per Run 1	0.0171 ppm	11.4438 ppm	0.1225 ppm	0.2453 ppm	0.8299 ppm	0.0132 ppm	65.0884 ppm
Concentration per Run 2	0.0174 ppm	11.4753 ppm	0.1231 ppm	0.2420 ppm	0.8359 ppm	0.0133 ppm	64.8714 ppm
Concentration per Run 3	0.0174 ppm	11.4875 ppm	0.1167 ppm	0.2396 ppm	0.8287 ppm	0.0133 ppm	64.5961 ppm
Concentration RSD	1.0 %	0.2 %	2.9 %	1.2 %	0.5 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0360 ppm	0.1441 ppm	0.4274 ppm	1.2134 ppm	276.6160 ppm	3.5053 ppm	0.0150 ppm
Concentration per Run 1	0.0361 ppm	0.1444 ppm	0.4280 ppm	1.2148 ppm	276.7071 ppm	3.4943 ppm	0.0155 ppm
Concentration per Run 2	0.0358 ppm	0.1441 ppm	0.4285 ppm	1.2149 ppm	277.0527 ppm	3.5019 ppm	0.0145 ppm
Concentration per Run 3	0.0361 ppm	0.1438 ppm	0.4257 ppm	1.2104 ppm	276.0884 ppm	3.5197 ppm	0.0149 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.2 %	0.2 %	0.4 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.7309 ppm	3.6321 ppm	0.2983 ppm	2.7284 ppm	0.5775 ppm	1.8789 ppm	0.1240 ppm
Concentration per Run 1	21.6967 ppm	3.6388 ppm	0.2928 ppm	2.7081 ppm	0.5783 ppm	1.9222 ppm	0.1274 ppm
Concentration per Run 2	21.7443 ppm	3.6554 ppm	0.2985 ppm	2.7414 ppm	0.5779 ppm	1.9033 ppm	0.1209 ppm
Concentration per Run 3	21.7515 ppm	3.6021 ppm	0.3035 ppm	2.7357 ppm	0.5762 ppm	1.8113 ppm	0.1237 ppm
Concentration RSD	0.1 %	0.8 %	1.8 %	0.7 %	0.2 %	3.2 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0324 ppm	2.6538 ppm	0.4014 ppm	0.3451 ppm	0.4906 ppm	0.0282 ppm	0.1633 ppm
Concentration per Run 1	0.0321 ppm	2.6776 ppm	0.4035 ppm	0.3442 ppm	0.4906 ppm	0.0279 ppm	0.1637 ppm
Concentration per Run 2	0.0333 ppm	2.6527 ppm	0.4019 ppm	0.3475 ppm	0.4915 ppm	0.0288 ppm	0.1627 ppm
Concentration per Run 3	0.0320 ppm	2.6310 ppm	0.3988 ppm	0.3436 ppm	0.4898 ppm	0.0280 ppm	0.1635 ppm
Concentration RSD	2.2 %	0.9 %	0.6 %	0.6 %	0.2 %	1.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6325 ppm	103.2617 %	108.2604 %	93.9253 %	105.6245 %	110.3180 %	103.2778 %
Concentration per Run 1	2.6214 ppm	104.1746 %	106.8482 %	92.2285 %	105.8171 %	109.0351 %	101.5131 %
Concentration per Run 2	2.6452 ppm	102.8498 %	108.8322 %	93.4577 %	105.4230 %	110.7188 %	102.7846 %
Concentration per Run 3	2.6310 ppm	102.7607 %	109.1006 %	96.0896 %	105.6335 %	111.2002 %	105.5357 %
Concentration RSD	0.5 %	0.8 %	1.1 %	2.1 %	0.2 %	1.0 %	2.0 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936544-4D8 WG1936544
Analysis started at: 6/20/2024 11:11:57 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0180 ppm	12.6876 ppm	0.1280 ppm	0.4125 ppm	0.9638 ppm	0.0137 ppm	68.8834 ppm
Concentration per Run 1	0.0190 ppm	12.9371 ppm	0.1284 ppm	0.4118 ppm	0.9820 ppm	0.0140 ppm	70.4722 ppm
Concentration per Run 2	0.0177 ppm	13.1274 ppm	0.1289 ppm	0.4172 ppm	0.9977 ppm	0.0141 ppm	71.1243 ppm
Concentration per Run 3	0.0175 ppm	11.9982 ppm	0.1266 ppm	0.4086 ppm	0.9118 ppm	0.0129 ppm	65.0537 ppm
Concentration RSD	4.5 %	4.8 %	1.0 %	1.1 %	4.7 %	4.8 %	4.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0370 ppm	0.1531 ppm	0.2540 ppm	1.3099 ppm	313.0730 ppm	3.7397 ppm	0.0157 ppm
Concentration per Run 1	0.0367 ppm	0.1521 ppm	0.2536 ppm	1.3073 ppm	320.0652 ppm	3.7785 ppm	0.0173 ppm
Concentration per Run 2	0.0371 ppm	0.1536 ppm	0.2554 ppm	1.3063 ppm	323.6256 ppm	3.8972 ppm	0.0157 ppm
Concentration per Run 3	0.0373 ppm	0.1537 ppm	0.2529 ppm	1.3161 ppm	295.5281 ppm	3.5433 ppm	0.0141 ppm
Concentration RSD	0.8 %	0.6 %	0.5 %	0.4 %	4.9 %	4.8 %	10.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.5196 ppm	3.7590 ppm	0.2661 ppm	3.5238 ppm	0.4370 ppm	2.2369 ppm	0.1547 ppm
Concentration per Run 1	25.3955 ppm	3.8554 ppm	0.2628 ppm	3.5787 ppm	0.4355 ppm	2.2264 ppm	0.1549 ppm
Concentration per Run 2	25.6142 ppm	3.8804 ppm	0.2654 ppm	3.6485 ppm	0.4405 ppm	2.2296 ppm	0.1575 ppm
Concentration per Run 3	25.5492 ppm	3.5413 ppm	0.2700 ppm	3.3443 ppm	0.4350 ppm	2.2548 ppm	0.1517 ppm
Concentration RSD	0.4 %	5.0 %	1.4 %	4.5 %	0.7 %	0.7 %	1.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0353 ppm	2.6261 ppm	0.7089 ppm	0.3513 ppm	0.4997 ppm	0.0300 ppm	0.1653 ppm
Concentration per Run 1	0.0340 ppm	2.6068 ppm	0.7087 ppm	0.3588 ppm	0.4990 ppm	0.0312 ppm	0.1645 ppm
Concentration per Run 2	0.0382 ppm	2.6319 ppm	0.7122 ppm	0.3633 ppm	0.5008 ppm	0.0285 ppm	0.1663 ppm
Concentration per Run 3	0.0338 ppm	2.6396 ppm	0.7058 ppm	0.3318 ppm	0.4993 ppm	0.0302 ppm	0.1650 ppm
Concentration RSD	7.0 %	0.7 %	0.5 %	4.9 %	0.2 %	4.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2548 ppm	103.7965 %	108.8059 %	91.5320 %	105.9153 %	109.8193 %	101.4799 %
Concentration per Run 1	3.2550 ppm	103.7879 %	106.0075 %	91.8768 %	105.4104 %	108.1057 %	102.0570 %
Concentration per Run 2	3.2731 ppm	102.9756 %	105.5290 %	91.4102 %	105.0224 %	108.0939 %	101.3450 %
Concentration per Run 3	3.2365 ppm	104.6261 %	114.8811 %	91.3090 %	107.3130 %	113.2584 %	101.0377 %
Concentration RSD	0.6 %	0.8 %	4.8 %	0.3 %	1.2 %	2.7 %	0.5 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936544-5D8 WG1936544
Analysis started at: 6/20/2024 11:19:21 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0514 ppm	10.4140 ppm	0.2032 ppm	0.9330 ppm	2.2181 ppm	0.0489 ppm	84.3773 ppm
Concentration per Run 1	0.0523 ppm	10.3721 ppm	0.2011 ppm	0.9301 ppm	2.2140 ppm	0.0487 ppm	84.1807 ppm
Concentration per Run 2	0.0508 ppm	10.4458 ppm	0.2044 ppm	0.9313 ppm	2.2247 ppm	0.0490 ppm	84.6927 ppm
Concentration per Run 3	0.0513 ppm	10.4243 ppm	0.2043 ppm	0.9376 ppm	2.2156 ppm	0.0490 ppm	84.2585 ppm
Concentration RSD	1.5 %	0.4 %	0.9 %	0.4 %	0.3 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0676 ppm	0.4704 ppm	0.4150 ppm	1.3640 ppm	337.1198 ppm	11.1784 ppm	0.0109 ppm
Concentration per Run 1	0.0677 ppm	0.4682 ppm	0.4153 ppm	1.3602 ppm	336.5954 ppm	11.1762 ppm	0.0119 ppm
Concentration per Run 2	0.0679 ppm	0.4728 ppm	0.4148 ppm	1.3569 ppm	338.2222 ppm	11.1752 ppm	0.0099 ppm
Concentration per Run 3	0.0672 ppm	0.4703 ppm	0.4149 ppm	1.3751 ppm	336.5418 ppm	11.1837 ppm	0.0108 ppm
Concentration RSD	0.6 %	0.5 %	0.1 %	0.7 %	0.3 %	0.0 %	9.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.2428 ppm	4.9393 ppm	0.9811 ppm	10.5156 ppm	0.9459 ppm	2.1770 ppm	0.4352 ppm
Concentration per Run 1	38.2501 ppm	4.9459 ppm	0.9626 ppm	10.5316 ppm	0.9407 ppm	2.1497 ppm	0.4304 ppm
Concentration per Run 2	38.1555 ppm	4.9371 ppm	0.9819 ppm	10.4649 ppm	0.9479 ppm	2.1873 ppm	0.4347 ppm
Concentration per Run 3	38.3228 ppm	4.9349 ppm	0.9988 ppm	10.5505 ppm	0.9491 ppm	2.1939 ppm	0.4405 ppm
Concentration RSD	0.2 %	0.1 %	1.8 %	0.4 %	0.5 %	1.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1265 ppm	2.8722 ppm	1.0762 ppm	1.0470 ppm	1.2415 ppm	0.1207 ppm	0.5159 ppm
Concentration per Run 1	0.1263 ppm	2.8758 ppm	1.0696 ppm	1.0479 ppm	1.2432 ppm	0.1181 ppm	0.5156 ppm
Concentration per Run 2	0.1273 ppm	2.8605 ppm	1.0782 ppm	1.0479 ppm	1.2373 ppm	0.1217 ppm	0.5162 ppm
Concentration per Run 3	0.1259 ppm	2.8804 ppm	1.0807 ppm	1.0452 ppm	1.2439 ppm	0.1223 ppm	0.5160 ppm
Concentration RSD	0.6 %	0.4 %	0.5 %	0.2 %	0.3 %	1.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.4721 ppm	102.0126 %	105.4060 %	90.1277 %	103.7759 %	107.4927 %	99.5813 %
Concentration per Run 1	2.4602 ppm	102.6059 %	105.1856 %	91.3257 %	104.2047 %	107.3388 %	100.5131 %
Concentration per Run 2	2.4831 ppm	101.7497 %	104.8293 %	89.7493 %	103.5283 %	107.1755 %	99.5180 %
Concentration per Run 3	2.4731 ppm	101.6823 %	106.2032 %	89.3082 %	103.5945 %	107.9637 %	98.7128 %
Concentration RSD	0.5 %	0.5 %	0.7 %	1.2 %	0.4 %	0.4 %	0.9 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: WG1936544-6D40 WG1936544
Analysis started at: 6/20/2024 11:22:55 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	1.6573 ppm	0.0155 ppm	0.0062 ppm	0.0596 ppm	0.0002 ppm	15.3168 ppm
Concentration per Run 1	0.0018 ppm	1.6764 ppm	0.0156 ppm	0.0055 ppm	0.0602 ppm	0.0002 ppm	15.5256 ppm
Concentration per Run 2	0.0023 ppm	1.6485 ppm	0.0161 ppm	0.0076 ppm	0.0593 ppm	0.0002 ppm	15.2327 ppm
Concentration per Run 3	0.0015 ppm	1.6471 ppm	0.0146 ppm	0.0054 ppm	0.0591 ppm	0.0002 ppm	15.1920 ppm
Concentration RSD	20.5 %	1.0 %	5.1 %	20.2 %	1.0 %	9.0 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0066 ppm	0.0483 ppm	0.2292 ppm	72.3607 ppm	0.2120 ppm	0.0011 ppm
Concentration per Run 1	0.0040 ppm	0.0072 ppm	0.0483 ppm	0.2308 ppm	73.4210 ppm	0.2201 ppm	0.0026 ppm
Concentration per Run 2	0.0044 ppm	0.0065 ppm	0.0480 ppm	0.2280 ppm	71.9583 ppm	0.2071 ppm	-0.0003 ppm
Concentration per Run 3	0.0042 ppm	0.0062 ppm	0.0487 ppm	0.2290 ppm	71.7029 ppm	0.2089 ppm	0.0011 ppm
Concentration RSD	5.4 %	7.9 %	0.7 %	0.6 %	1.3 %	3.3 %	128.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1652 ppm	0.9154 ppm	0.0184 ppm	0.0522 ppm	0.1079 ppm	0.3311 ppm	0.0204 ppm
Concentration per Run 1	6.1481 ppm	0.9271 ppm	0.0187 ppm	0.0525 ppm	0.1087 ppm	0.3302 ppm	0.0187 ppm
Concentration per Run 2	6.1545 ppm	0.9107 ppm	0.0181 ppm	0.0513 ppm	0.1064 ppm	0.3295 ppm	0.0214 ppm
Concentration per Run 3	6.1929 ppm	0.9085 ppm	0.0183 ppm	0.0527 ppm	0.1086 ppm	0.3337 ppm	0.0212 ppm
Concentration RSD	0.4 %	1.1 %	1.8 %	1.4 %	1.2 %	0.7 %	7.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.4006 ppm	0.0377 ppm	0.0195 ppm	0.0627 ppm	-0.0009 ppm	0.0113 ppm
Concentration per Run 1	-0.0021 ppm	0.4026 ppm	0.0370 ppm	0.0197 ppm	0.0627 ppm	-0.0011 ppm	0.0114 ppm
Concentration per Run 2	0.0003 ppm	0.3991 ppm	0.0387 ppm	0.0195 ppm	0.0622 ppm	-0.0008 ppm	0.0114 ppm
Concentration per Run 3	-0.0023 ppm	0.3999 ppm	0.0373 ppm	0.0194 ppm	0.0632 ppm	-0.0008 ppm	0.0110 ppm
Concentration RSD	106.4 %	0.4 %	2.4 %	0.9 %	0.8 %	19.6 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4250 ppm	106.0464 %	108.4254 %	101.0696 %	106.2455 %	107.8618 %	102.7263 %
Concentration per Run 1	0.4211 ppm	107.4208 %	107.0913 %	101.9005 %	107.6438 %	106.6221 %	103.5431 %
Concentration per Run 2	0.4249 ppm	105.6559 %	109.3588 %	100.4107 %	106.7876 %	109.0053 %	102.6204 %
Concentration per Run 3	0.4290 ppm	105.0626 %	108.8260 %	100.8977 %	104.3052 %	107.9580 %	102.0155 %
Concentration RSD	0.9 %	1.2 %	1.1 %	0.8 %	1.6 %	1.1 %	0.7 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCV
Analysis started at: 6/20/2024 11:26:22 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4866 ppm	0.4849 ppm	0.4659 ppm	0.4717 ppm	0.4928 ppm	0.5002 ppm	0.4772 ppm
Concentration per Run 1	0.4986 ppm	0.4891 ppm	0.4630 ppm	0.4836 ppm	0.4943 ppm	0.4993 ppm	0.4805 ppm
Concentration per Run 2	0.4824 ppm	0.4807 ppm	0.4641 ppm	0.4666 ppm	0.4917 ppm	0.5004 ppm	0.4743 ppm
Concentration per Run 3	0.4789 ppm	0.4850 ppm	0.4706 ppm	0.4649 ppm	0.4926 ppm	0.5009 ppm	0.4770 ppm
Recovery Percentage 1	97.321 %	96.986 %	93.185 %	94.332 %	98.567 %	100.036 %	95.447 %
Concentration RSD	2.2 %	0.9 %	0.9 %	2.2 %	0.3 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4761 ppm	0.4872 ppm	0.4704 ppm	0.4798 ppm	0.5104 ppm	5.1150 ppm	0.6160 ppm
Concentration per Run 1	0.4888 ppm	0.5011 ppm	0.4826 ppm	0.4914 ppm	0.5129 ppm	5.1454 ppm	0.6180 ppm
Concentration per Run 2	0.4710 ppm	0.4822 ppm	0.4669 ppm	0.4755 ppm	0.5097 ppm	5.0899 ppm	0.6144 ppm
Concentration per Run 3	0.4685 ppm	0.4782 ppm	0.4618 ppm	0.4724 ppm	0.5086 ppm	5.1098 ppm	0.6156 ppm
Recovery Percentage 1	95.220 %	97.435 %	94.086 %	95.955 %	102.082 %	102.300 %	123.200 %
Concentration RSD	2.3 %	2.5 %	2.3 %	2.1 %	0.4 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4637 ppm	0.4728 ppm	0.4810 ppm	9.8899 ppm	0.4783 ppm	0.4777 ppm	0.4961 ppm
Concentration per Run 1	0.4755 ppm	0.4781 ppm	0.4891 ppm	9.9790 ppm	0.4891 ppm	0.4758 ppm	0.5074 ppm
Concentration per Run 2	0.4583 ppm	0.4694 ppm	0.4776 ppm	9.8364 ppm	0.4771 ppm	0.4761 ppm	0.4905 ppm
Concentration per Run 3	0.4572 ppm	0.4711 ppm	0.4764 ppm	9.8542 ppm	0.4688 ppm	0.4811 ppm	0.4903 ppm
Recovery Percentage 1	92.732 %	94.567 %	96.205 %	98.899 %	95.663 %	95.539 %	99.213 %
Concentration RSD	2.2 %	1.0 %	1.5 %	0.8 %	2.1 %	0.6 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4758 ppm	5.4478 ppm	0.4836 ppm	0.4839 ppm	0.4737 ppm	0.4863 ppm	0.4704 ppm
Concentration per Run 1	0.4764 ppm	5.5624 ppm	0.4936 ppm	0.4853 ppm	0.4862 ppm	0.4833 ppm	0.4822 ppm
Concentration per Run 2	0.4739 ppm	5.3942 ppm	0.4825 ppm	0.4828 ppm	0.4701 ppm	0.4875 ppm	0.4670 ppm
Concentration per Run 3	0.4772 ppm	5.3868 ppm	0.4745 ppm	0.4834 ppm	0.4646 ppm	0.4881 ppm	0.4619 ppm
Recovery Percentage 1	95.166 %	103.767 %	96.710 %	96.772 %	94.731 %	97.265 %	94.076 %
Concentration RSD	0.4 %	1.8 %	2.0 %	0.3 %	2.4 %	0.5 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4761 ppm	107.3713 %	107.5904 %	103.9453 %	107.0203 %	106.7896 %	104.1903 %
Concentration per Run 1	0.4871 ppm	104.6617 %	107.7459 %	104.5116 %	104.4007 %	107.7274 %	104.8746 %
Concentration per Run 2	0.4746 ppm	107.8365 %	107.2646 %	103.7670 %	107.3856 %	106.0857 %	103.6203 %
Concentration per Run 3	0.4666 ppm	109.6156 %	107.7606 %	103.5575 %	109.2746 %	106.5558 %	104.0760 %
Recovery Percentage 1	95.218 %						
Concentration RSD	2.2 %	2.3 %	0.3 %	0.5 %	2.3 %	0.8 %	0.6 %

ICP DataTrace 9

6/20/2024 11:53:43 AM

LabBook: WG1936852_06202024T9.imexp

Sample: CCB
Analysis started at: 6/20/2024 11:29:51 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0004 ppm	-0.0005 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0071 ppm
Concentration per Run 1	0.0007 ppm	0.0005 ppm	-0.0008 ppm	-0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	0.0011 ppm	0.0026 ppm	-0.0001 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	0.0009 ppm	-0.0020 ppm	-0.0006 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0077 ppm
Recovery Percentage 1	12.688 %	0.386 %	-10.293 %	0.489 %	-1.916 %	-0.005 %	7.138 %
Concentration RSD	21.1 %	602.5 %	69.9 %	892.8 %	42.1 %	19,153.7 %	10.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0046 ppm	0.0342 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0067 ppm	0.0257 ppm	-0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0036 ppm	0.0238 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0035 ppm	0.0532 ppm	-0.0006 ppm
Recovery Percentage 1	0.311 %	0.777 %	0.854 %	6.254 %	9.228 %	1.369 %	-23.315 %
Concentration RSD	49.8 %	107.4 %	259.3 %	47.7 %	40.0 %	48.0 %	71.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	-0.0001 ppm	0.0050 ppm	0.0034 ppm	-0.0006 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 1	0.0004 ppm	-0.0002 ppm	0.0045 ppm	0.0024 ppm	-0.0011 ppm	0.0003 ppm	0.0044 ppm
Concentration per Run 2	0.0005 ppm	-0.0002 ppm	0.0054 ppm	0.0023 ppm	0.0002 ppm	-0.0001 ppm	0.0068 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	0.0052 ppm	0.0055 ppm	-0.0010 ppm	-0.0001 ppm	0.0093 ppm
Recovery Percentage 1	-0.233 %	-1.199 %	10.044 %	0.169 %	-2.530 %	0.274 %	13.664 %
Concentration RSD	506.0 %	61.5 %	9.6 %	53.6 %	113.8 %	987.8 %	36.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	0.0002 ppm	0.0013 ppm	0.0002 ppm	-0.0006 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0026 ppm	0.0014 ppm	0.0026 ppm	0.0002 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0017 ppm	-0.0007 ppm	0.0009 ppm	0.0002 ppm	-0.0002 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 3	-0.0012 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	-0.0009 ppm	-0.0010 ppm	-0.0003 ppm
Recovery Percentage 1	10.740 %	0.034 %	2.584 %	1.821 %	-5.972 %	-3.521 %	-1.490 %
Concentration RSD	184.8 %	650.2 %	86.6 %	34.9 %	55.0 %	93.3 %	81.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	105.4097 %	105.6926 %	104.2601 %	106.6043 %	105.4999 %	104.1513 %
Concentration per Run 1	0.0001 ppm	102.4341 %	104.4285 %	104.8674 %	103.8335 %	104.7482 %	104.8364 %
Concentration per Run 2	0.0000 ppm	107.0062 %	106.8053 %	103.6717 %	107.9974 %	105.8907 %	103.6638 %
Concentration per Run 3	0.0001 ppm	106.7889 %	105.8440 %	104.2411 %	107.9819 %	105.8607 %	103.9538 %
Recovery Percentage 1	1.169 %						
Concentration RSD	138.9 %	2.4 %	1.1 %	0.6 %	2.3 %	0.6 %	0.6 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

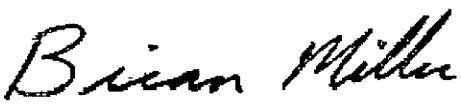
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 8

6/20/2024 6:19:44 AM

LabBook: WG1936236_06192024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	xBlank DHL Trace8	0	1	6/19/2024 5:47:45 AM
2	xICAL	0	2	6/19/2024 5:52:01 AM
3	xICV	0	3	6/19/2024 5:55:56 AM
4	xICB	0	4	6/19/2024 5:59:52 AM
5	xICV	0	3	6/19/2024 6:05:20 AM
6	Blank DHL Trace8	0	1	6/19/2024 6:11:57 AM
7	ICAL	0	2	6/19/2024 6:16:15 AM
8	ICV	0	3	6/19/2024 6:20:10 AM
9	ICB	0	4	6/19/2024 6:24:06 AM
10	LLOQ	0	5	6/19/2024 6:29:25 AM
11	ICSA	0	6	6/19/2024 6:33:25 AM
12	SIC Multi	0	7	6/19/2024 6:56:07 AM
13	LDR Check	0	8	6/19/2024 7:00:12 AM
14	LLOQ 0.01	1	1	6/19/2024 7:26:01 AM
15	LLOQ 0.05	1	2	6/19/2024 7:30:17 AM
16	LDR 20 As	1	3	6/19/2024 7:34:13 AM
17	LDR 20 Si	1	4	6/19/2024 7:38:08 AM
18	LDR 500 Na	1	5	6/19/2024 7:42:05 AM
19	LDR 500 Fe	1	6	6/19/2024 7:46:01 AM
20	LDR 1000 Ca	1	7	6/19/2024 7:49:58 AM
21	CCV	0	3	6/19/2024 8:06:29 AM
22	CCB	0	4	6/19/2024 8:10:31 AM
23	XLLOQ 0.01 Se	1	8	6/19/2024 8:28:28 AM
24	L2431167-02D2 WG1935622	1	9	6/19/2024 8:40:46 AM
25	L2431167-03D2 WG1935622	1	10	6/19/2024 8:44:49 AM
26	L2431167-04D2 WG1935622	1	11	6/19/2024 8:48:47 AM
27	L2432924-01D2 WG1935622	1	12	6/19/2024 8:52:46 AM
28	L2432925-01D2 WG1935622	1	13	6/19/2024 8:56:44 AM
29	L2432925-02D2 WG1935622	1	14	6/19/2024 9:00:39 AM
30	L2432925-03D2 WG1935622	1	15	6/19/2024 9:04:34 AM
31	L2432996-01D2 WG1935622	1	16	6/19/2024 9:08:29 AM
32	L2432996-02D2 WG1935622	1	17	6/19/2024 9:12:24 AM
33	CCV	0	3	6/19/2024 9:16:21 AM
34	CCB	0	4	6/19/2024 9:20:17 AM
35	WG1936048-1 WG1936048	1	21	6/19/2024 9:27:59 AM
36	WG1936048-2D2 WG1936048	1	22	6/19/2024 9:32:10 AM
37	L2432996-03D2 WG1935622	1	18	6/19/2024 9:36:07 AM
38	L2432996-04D2 WG1935622	1	19	6/19/2024 9:40:04 AM
39	L2432996-07D2 WG1935622	1	20	6/19/2024 9:44:00 AM
40	L2434073-04D2 WG1936048	1	23	6/19/2024 9:47:57 AM
41	WG1936048-3D2 WG1936048	1	24	6/19/2024 9:51:55 AM
42	WG1936048-4D2 WG1936048	1	25	6/19/2024 9:55:53 AM
43	WG1936048-5D2 WG1936048	1	26	6/19/2024 9:59:48 AM
44	WG1936048-6D10 WG1936048	1	27	6/19/2024 10:03:44 AM
45	CCV	0	3	6/19/2024 10:07:47 AM
46	CCB	0	4	6/19/2024 10:11:43 AM
47	SIC 50 Ni As-	1	47	6/19/2024 10:23:51 AM
48	L2432886-02D2 WG1936048	1	28	6/19/2024 10:39:48 AM
49	L2432938-01D2 WG1936048	1	29	6/19/2024 10:43:50 AM
50	L2432938-03D2 WG1936048	1	30	6/19/2024 10:47:46 AM
51	L2432974-01D2 WG1936048	1	31	6/19/2024 10:51:42 AM
52	xL2432998-01D2 WG1936048	1	32	6/19/2024 10:55:38 AM
53	xL2432998-02D2 WG1936048	1	33	6/19/2024 10:59:35 AM
54	L2433059-03D2 WG1936048	1	34	6/19/2024 11:03:32 AM
55	L2433059-06D2 WG1936048	1	35	6/19/2024 11:07:29 AM
56	L2433059-07D2 WG1936048	1	36	6/19/2024 11:11:27 AM
57	CCV	0	3	6/19/2024 11:15:26 AM
58	CCB	0	4	6/19/2024 11:19:23 AM
59	L2433061-01D2 WG1936048	1	37	6/19/2024 11:34:57 AM
60	L2433089-01D2 WG1936048	1	38	6/19/2024 11:39:06 AM
61	L2433089-02D2 WG1936048	1	39	6/19/2024 11:43:02 AM
62	L2433126-01D2 WG1936048	1	40	6/19/2024 11:46:58 AM
63	L2433128-02D2 WG1936048	1	41	6/19/2024 11:50:54 AM
64	L2433148-01D2 WG1936048	1	42	6/19/2024 11:54:51 AM
65	L2433148-02D2 WG1936048	1	43	6/19/2024 11:58:48 AM
66	L2433148-03D2 WG1936048	1	44	6/19/2024 12:02:45 PM
67	L2433149-01D2 WG1936048	1	45	6/19/2024 12:06:42 PM
68	L2433162-01D2 WG1936048	1	46	6/19/2024 12:10:39 PM

Sequence Trace 8

6/20/2024 6:19:44 AM

Index	Label	Rack	Vial	Started at
69	CCV	0	3	6/19/2024 12:14:37 PM
70	CCB	0	4	6/19/2024 12:18:34 PM
71	LDR 100 Mn	1	48	6/19/2024 12:31:30 PM
72	xL2432998-01D10 WG1936048	1	49	6/19/2024 12:40:38 PM
73	xL2432998-02D10 WG1936048	1	50	6/19/2024 12:44:49 PM
74	L2432998-01D20 WG1936048	2	4	6/19/2024 12:49:58 PM
75	xL2432998-02D20 WG1936048	2	5	6/19/2024 12:53:56 PM
76	L2434455-01D2 WG1936224	2	1	6/19/2024 12:57:53 PM
77	L2434455-02D2 WG1936224	2	2	6/19/2024 1:01:50 PM
78	L2434455-03D2 WG1936224	2	3	6/19/2024 1:05:48 PM
79	L2432998-02D40 WG1936048	2	6	6/19/2024 1:09:45 PM
80	CCV	0	3	6/19/2024 1:22:53 PM
81	CCB	0	4	6/19/2024 1:26:57 PM
82	WG1936224-1 WG1936224	1	51	6/19/2024 1:32:24 PM
83	WG1936224-2D2 WG1936224	1	52	6/19/2024 1:36:35 PM
84	WG1936224-3D2 WG1936224	1	53	6/19/2024 1:40:31 PM
85	L2433379-01D2 WG1936224	1	54	6/19/2024 1:44:29 PM
86	WG1936224-4D2 WG1936224	1	55	6/19/2024 1:48:26 PM
87	WG1936224-4D2 WG1936224	1	56	6/19/2024 1:52:23 PM
88	WG1936224-5D2 WG1936224	1	57	6/19/2024 1:56:21 PM
89	WG1936224-5D2 WG1936224	1	58	6/19/2024 2:00:19 PM
90	WG1936224-7D2 WG1936224	1	59	6/19/2024 2:04:18 PM
91	WG1936224-6D10 WG1936224	1	60	6/19/2024 2:08:24 PM
92	CCV	0	3	6/19/2024 2:12:23 PM
93	CCB	0	4	6/19/2024 2:16:21 PM
94	L2432838-01 WG1935332	2	7	6/19/2024 2:23:07 PM
95	L2432844-01 WG1935332	2	8	6/19/2024 2:27:24 PM
96	L2432903-03 WG1935332	2	9	6/19/2024 2:31:22 PM
97	L2432883-01 WG1935332	2	10	6/19/2024 2:35:20 PM
98	L2432931-01 WG1935332	2	11	6/19/2024 2:39:19 PM
99	L2432978-03 WG1935332	2	12	6/19/2024 2:43:19 PM
100	L2433035-01 WG1935332	2	13	6/19/2024 2:47:18 PM
101	L2433035-02 WG1935332	2	14	6/19/2024 2:51:17 PM
102	L2433035-05 WG1935332	2	15	6/19/2024 2:55:16 PM
103	L2433035-06 WG1935332	2	16	6/19/2024 2:59:13 PM
104	CCV	0	3	6/19/2024 3:03:11 PM
105	CCB	0	4	6/19/2024 3:07:09 PM
106	zWG1936224-1 WG1936224	2	24	6/19/2024 3:13:47 PM
107	L2433035-07 WG1935332	2	17	6/19/2024 3:20:47 PM
108	L2433035-08 WG1935332	2	18	6/19/2024 3:24:52 PM
109	L2433035-09 WG1935332	2	19	6/19/2024 3:28:51 PM
110	L2433035-10 WG1935332	2	20	6/19/2024 3:32:49 PM
111	L2433067-02 WG1935332	2	21	6/19/2024 3:36:47 PM
112	L2433067-04 WG1935332	2	22	6/19/2024 3:40:46 PM
113	L2433137-02D2 WG1935332	2	23	6/19/2024 3:44:45 PM
114	CCV	0	3	6/19/2024 3:48:44 PM
115	CCB	0	4	6/19/2024 3:52:42 PM
116	WG1935872-1 WG1935872	2	25	6/19/2024 4:02:04 PM
117	WG1935872-2 WG1935872	2	26	6/19/2024 4:06:22 PM
118	L2432990-01 WG1935872	2	27	6/19/2024 4:10:20 PM
119	WG1935872-3 WG1935872	2	28	6/19/2024 4:14:18 PM
120	WG1935872-4 WG1935872	2	29	6/19/2024 4:18:17 PM
121	L2432990-02 WG1935872	2	30	6/19/2024 4:22:15 PM
122	L2432990-03 WG1935872	2	31	6/19/2024 4:26:13 PM
123	L2432990-04 WG1935872	2	32	6/19/2024 4:30:11 PM
124	L2433097-02 WG1935872	2	33	6/19/2024 4:34:09 PM
125	L2433097-03 WG1935872	2	34	6/19/2024 4:38:07 PM
126	CCV	0	3	6/19/2024 4:42:06 PM
127	CCB	0	4	6/19/2024 4:46:04 PM
128	WG1935869-1 WG1935869	2	38	6/19/2024 4:56:02 PM
129	WG1935869-2 WG1935869	2	39	6/19/2024 5:00:07 PM
130	L2433097-04 WG1935872	2	35	6/19/2024 5:04:05 PM
131	L2433097-05 WG1935872	2	36	6/19/2024 5:08:05 PM
132	L2433097-06 WG1935872	2	37	6/19/2024 5:12:04 PM
133	L2433097-07 WG1935869	2	43	6/19/2024 5:16:03 PM
134	L2433097-01 WG1935869	2	40	6/19/2024 5:20:01 PM
135	WG1935869-3 WG1935869	2	41	6/19/2024 5:24:00 PM
136	WG1935869-4 WG1935869	2	42	6/19/2024 5:27:58 PM
137	CCV	0	3	6/19/2024 5:31:56 PM
138	CCB	0	4	6/19/2024 5:35:55 PM
139	WG1936001-1 WG1936001	2	44	6/19/2024 5:46:30 PM
140	WG1936001-2 WG1936001	2	45	6/19/2024 5:50:35 PM
141	L2432988-01 WG1936001	2	46	6/19/2024 5:54:35 PM
142	WG1936001-3 WG1936001	2	47	6/19/2024 5:58:33 PM

Sequence Trace 8

6/20/2024 6:19:44 AM

Index	Label	Rack	Vial	Started at
143	WG1936001-4 WG1936001	2	48	6/19/2024 6:02:33 PM
144	WG1936001-5 WG1936001	2	49	6/19/2024 6:06:33 PM
145	WG1936001-6D5 WG1936001	2	50	6/19/2024 6:10:32 PM
146	CCV	0	3	6/19/2024 6:14:31 PM
147	CCB	0	4	6/19/2024 6:18:30 PM
148	L2433232-01 WG1935889	2	56	6/19/2024 6:27:45 PM
149	L2433375-01 WG1935889	2	57	6/19/2024 6:32:03 PM
150	L2433375-02 WG1935889	2	58	6/19/2024 6:36:03 PM
151	L2433375-03 WG1935889	2	59	6/19/2024 6:40:03 PM
152	L2433375-05 WG1935889	2	60	6/19/2024 6:44:03 PM
153	L2433492-01 WG1935889	2	51	6/19/2024 6:48:05 PM
154	WG1935889-7 WG1935889	2	52	6/19/2024 6:52:04 PM
155	WG1935889-8 WG1935889	2	53	6/19/2024 6:56:04 PM
156	WG1935889-9 WG1935889	2	54	6/19/2024 7:00:04 PM
157	WG1935889-10D5 WG1935889	2	55	6/19/2024 7:04:04 PM
158	CCV	0	3	6/19/2024 7:08:03 PM
159	CCB	0	4	6/19/2024 7:12:02 PM
160	L2433375-06 WG1935889	3	1	6/19/2024 7:16:23 PM
161	L2433375-07 WG1935889	3	2	6/19/2024 7:20:24 PM
162	L2433375-08 WG1935889	3	3	6/19/2024 7:24:25 PM
163	L2433501-07 WG1935889	3	4	6/19/2024 7:28:28 PM
164	L2433502-02 WG1935889	3	5	6/19/2024 7:32:28 PM
165	L2433529-01 WG1935889	3	6	6/19/2024 7:36:29 PM
166	CCV	0	3	6/19/2024 7:40:29 PM
167	CCB	0	4	6/19/2024 7:44:29 PM
168	xWG1936007-1 WG1936007	3	7	6/19/2024 7:52:18 PM
169	xWG1936007-2 WG1936007	3	8	6/19/2024 7:56:38 PM
170	xL2433120-02d10 WG1936007	3	14	6/19/2024 8:00:38 PM
171	xL2433303-01 WG1936007	3	9	6/19/2024 8:12:08 PM
172	xWG1936007-3 WG1936007	3	10	6/19/2024 8:16:14 PM
173	xWG1936007-4 WG1936007	3	11	6/19/2024 8:20:15 PM
174	xWG1936007-5 WG1936007	3	12	6/19/2024 8:24:15 PM
175	xWG1936007-6d5 WG1936007	3	13	6/19/2024 8:28:16 PM
176	xL2433120-02d10 WG1936007	3	15	6/19/2024 8:56:48 PM
177	xL2433120-02d50 WG1936007	3	16	6/19/2024 9:01:21 PM
178	xL2433120-02d80 WG1936007	3	43	6/19/2024 9:15:31 PM
179	CCV	0	3	6/19/2024 9:25:55 PM
180	CCB	0	4	6/19/2024 9:30:17 PM
181	CCV	0	3	6/19/2024 9:55:16 PM
182	CCB	0	4	6/19/2024 9:59:22 PM
183	WG1936261-1 WG1936261	3	17	6/19/2024 10:05:37 PM
184	WG1936261-2d2 WG1936261	3	18	6/19/2024 10:10:05 PM
185	L2433284-02d2 WG1936261	3	25	6/19/2024 10:14:06 PM
186	L2433284-03d2 WG1936261	3	26	6/19/2024 10:18:07 PM
187	L2433284-01d2 WG1936261	3	24	6/19/2024 10:22:08 PM
188	L2433398-05d2 WG1936261	3	19	6/19/2024 10:26:09 PM
189	WG1936261-3d2 WG1936261	3	20	6/19/2024 10:30:10 PM
190	WG1936261-4d2 WG1936261	3	21	6/19/2024 10:34:11 PM
191	WG1936261-5d2 WG1936261	3	22	6/19/2024 10:38:12 PM
192	WG1936261-6d10 WG1936261	3	23	6/19/2024 10:42:13 PM
193	CCV	0	3	6/19/2024 10:46:14 PM
194	CCB	0	4	6/19/2024 10:50:14 PM
195	WG1936007-1 WG1936007	3	7	6/19/2024 10:56:20 PM
196	WG1936007-2 WG1936007	3	8	6/19/2024 11:02:36 PM
197	L2433303-01 WG1936007	3	9	6/19/2024 11:06:58 PM
198	WG1936007-3 WG1936007	3	10	6/19/2024 11:10:58 PM
199	WG1936007-4 WG1936007	3	11	6/19/2024 11:14:59 PM
200	WG1936007-5 WG1936007	3	12	6/19/2024 11:19:00 PM
201	WG1936007-6d5 WG1936007	3	13	6/19/2024 11:23:02 PM
202	eL2433120-02d10 WG1936007	3	15	6/19/2024 11:27:03 PM
203	eL2433120-02d80 WG1936007	3	43	6/19/2024 11:31:04 PM
204	L2433120-02d100 WG1936007	3	44	6/19/2024 11:37:19 PM
205	CCV	0	3	6/19/2024 11:41:27 PM
206	CCB	0	4	6/19/2024 11:45:27 PM
207	CCV	0	3	6/19/2024 11:49:27 PM
208	CCB	0	4	6/19/2024 11:53:26 PM
209	L2433398-01d2 WG1936261	3	27	6/19/2024 11:57:26 PM
210	L2433398-02d2 WG1936261	3	28	6/20/2024 12:01:28 AM
211	L2433398-06d2 WG1936261	3	29	6/20/2024 12:05:29 AM
212	L2433398-09d2 WG1936261	3	30	6/20/2024 12:09:31 AM
213	L2433398-10d2 WG1936261	3	31	6/20/2024 12:13:32 AM
214	L2433398-13d2 WG1936261	3	32	6/20/2024 12:17:33 AM
215	L2433398-14d2 WG1936261	3	33	6/20/2024 12:21:34 AM
216	L2433398-17d2 WG1936261	3	34	6/20/2024 12:25:35 AM

Sequence Trace 8

6/20/2024 6:19:44 AM

Index	Label	Rack	Vial	Started at
217	L2433398-18d2 WG1936261	3	35	6/20/2024 12:29:37 AM
218	L2433398-21d2 WG1936261	3	36	6/20/2024 12:33:38 AM
219	CCV	0	3	6/20/2024 12:37:39 AM
220	CCB	0	4	6/20/2024 12:41:39 AM
221	L2433398-22d2 WG1936261	3	37	6/20/2024 12:45:40 AM
222	L2433398-25d2 WG1936261	3	38	6/20/2024 12:49:41 AM
223	L2433398-26d2 WG1936261	3	39	6/20/2024 12:53:43 AM
224	L2433398-29d2 WG1936261	3	40	6/20/2024 12:57:45 AM
225	L2433398-30d2 WG1936261	3	41	6/20/2024 1:01:46 AM
226	L2433398-33d2 WG1936261	3	42	6/20/2024 1:05:48 AM
227	CCV	0	3	6/20/2024 1:09:50 AM
228	CCB	0	4	6/20/2024 1:13:50 AM
229	CCV	0	3	6/20/2024 1:17:50 AM
230	CCB	0	4	6/20/2024 1:21:50 AM
231	LLOQ	0	5	6/20/2024 1:25:51 AM

Sequence Trace 6

6/19/2024 3:53:42 PM

LabBook: WG1936225_06192024T6.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMC Trace6	0	1	6/19/2024 5:09:58 AM
2	ICAL	0	2	6/19/2024 5:16:38 AM
3	ICV	0	3	6/19/2024 5:22:54 AM
4	ICB	0	4	6/19/2024 5:29:12 AM
5	ICV	0	10	6/19/2024 5:35:55 AM
6	ICB	0	4	6/19/2024 5:42:16 AM
7	LLOQ RL Check	0	5	6/19/2024 5:49:00 AM
8	ICSA	0	6	6/19/2024 5:55:37 AM
9	SIC Cr Mn V Ti (Si Contamination)	0	7	6/19/2024 6:09:40 AM
10	LDR Check	0	8	6/19/2024 6:23:54 AM
11	LLOQ 0.05	1	1	6/19/2024 6:55:44 AM
12	LDR 5PPM SB	1	2	6/19/2024 7:02:10 AM
13	LDR 5PPM SE	1	3	6/19/2024 7:08:50 AM
14	LDR 10PPM SN	1	4	6/19/2024 7:15:30 AM
15	IEC 20PPM CR	1	5	6/19/2024 7:22:10 AM
16	LDR 20PPM AS	1	6	6/19/2024 7:29:00 AM
17	LDR 20PPM Si	1	7	6/19/2024 7:35:41 AM
18	IEC 200PPM FE	1	8	6/19/2024 7:42:22 AM
19	LDR 500PPM NA	1	9	6/19/2024 7:56:15 AM
20	IEC 500PPM AL	1	12	6/19/2024 8:10:12 AM
21	XLDR 500PPM FE	1	10	6/19/2024 8:24:00 AM
22	LDR 1000PPM CA	1	11	6/19/2024 8:37:49 AM
23	CCV	0	3	6/19/2024 8:51:43 AM
24	CCB	0	4	6/19/2024 8:58:01 AM
25	WG1935889-1 WG1935889	1	13	6/19/2024 9:09:33 AM
26	WG1935889-2 WG1935889	1	14	6/19/2024 9:16:13 AM
27	L2434003-02 WG1935889	1	25	6/19/2024 9:22:31 AM
28	L2432868-02 WG1935328	1	33	6/19/2024 9:28:59 AM
29	L2432868-03 WG1935328	1	34	6/19/2024 9:35:36 AM
30	L2433375-04 WG1935889	1	15	6/19/2024 9:42:14 AM
31	WG1935889-3 WG1935889	1	16	6/19/2024 9:48:50 AM
32	WG1935889-4 WG1935889	1	17	6/19/2024 9:55:07 AM
33	WG1935889-5 WG1935889	1	18	6/19/2024 10:01:25 AM
34	WG1935889-6d5 WG1935889	1	19	6/19/2024 10:07:43 AM
35	CCV	0	3	6/19/2024 10:14:21 AM
36	CCB	0	4	6/19/2024 10:20:40 AM
37	L2432868-04 WG1935328	1	35	6/19/2024 10:27:23 AM
38	xL2433492-01 WG1935889	1	20	6/19/2024 10:34:01 AM
39	xWG1935889-7 WG1935889	1	21	6/19/2024 10:40:37 AM
40	xWG1935889-8 WG1935889	1	22	6/19/2024 10:46:55 AM
41	xWG1935889-9 WG1935889	1	23	6/19/2024 10:53:31 AM
42	CCV	0	3	6/19/2024 11:34:33 AM
43	CCB	0	4	6/19/2024 11:40:52 AM
44	xWG1935744-1 WG1935744	1	26	6/19/2024 11:53:38 AM
45	INSTRUMENT SHUT OFF	0	3	6/19/2024 12:34:12 PM
46	INSTRUMENT SHUT OFF	0	4	6/19/2024 12:40:29 PM
47	CCV	0	3	6/19/2024 12:58:02 PM
48	CCB	0	4	6/19/2024 1:04:20 PM
49	WG1935744-1 WG1935744	1	26	6/19/2024 1:11:10 PM
50	WG1935744-2 WG1935744	1	27	6/19/2024 1:17:50 PM
51	L2432871-01 WG1935744	1	28	6/19/2024 1:24:09 PM
52	WG1935744-3 WG1935744	1	29	6/19/2024 1:30:50 PM
53	WG1935744-4 WG1935744	1	30	6/19/2024 1:37:18 PM
54	WG1935744-5 WG1935744	1	31	6/19/2024 1:43:59 PM
55	WG1935744-6D5 WG1935744	1	32	6/19/2024 1:50:26 PM
56	CCV	0	3	6/19/2024 1:57:00 PM
57	CCB	0	4	6/19/2024 2:03:18 PM
58	WG1936282-1 WG1936282	1	36	6/19/2024 2:30:38 PM
59	WG1936282-2 WG1936282	1	37	6/19/2024 2:37:29 PM
60	L2434106-01 WG1936282	1	38	6/19/2024 2:43:48 PM
61	WG1936282-3 WG1936282	1	39	6/19/2024 2:50:31 PM
62	WG1936282-4 WG1936282	1	40	6/19/2024 2:56:58 PM
63	L2434106-02 WG1936282	1	41	6/19/2024 3:03:48 PM
64	L2434106-03 WG1936282	1	42	6/19/2024 3:10:31 PM
65	L2434106-04 WG1936282	1	43	6/19/2024 3:17:15 PM
66	L2434106-05 WG1936282	1	44	6/19/2024 3:23:59 PM
67	L2434143-01 WG1936282	1	45	6/19/2024 3:30:45 PM
68	CCV	0	3	6/19/2024 3:37:32 PM
69	CCB	0	4	6/19/2024 3:43:50 PM
70	CCV	0	3	
71	CCB	0	4	

Sequence Trace 6

6/19/2024 3:53:42 PM

Sequence Trace 6

6/20/2024 6:21:17 AM

LabBook: WG1936225_06192024T6B.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank HJM Trace6	0	1	6/19/2024 4:10:12 PM
2	ICAL	0	2	6/19/2024 4:16:55 PM
3	ICV	0	3	6/19/2024 4:23:13 PM
4	ICB	0	4	6/19/2024 4:29:31 PM
5	ICV	0	10	6/19/2024 4:36:32 PM
6	ICB	0	4	6/19/2024 4:42:52 PM
7	LLOQ RL Check	0	5	6/19/2024 4:54:31 PM
8	xwrong spot	1	46	6/19/2024 5:04:56 PM
9	LLOQ 0.05 Fe	1	46	6/19/2024 5:06:17 PM
10	xwrong spot	0	8	6/19/2024 5:12:41 PM
11	xwrong spot	0	8	6/19/2024 5:19:58 PM
12	LDR (ICSA)	0	6	6/19/2024 5:28:08 PM
13	LDR (SIC)	0	7	6/19/2024 5:35:07 PM
14	LDR Check	0	8	6/19/2024 5:42:18 PM
15	LDR Sb 5 pass	1	49	6/19/2024 6:01:10 PM
16	LDR Sn 10 pass	1	50	6/19/2024 6:08:01 PM
17	LDR Si 20 pass	1	51	6/19/2024 6:16:01 PM
18	LDR Fe 200 pass	1	47	6/19/2024 6:22:41 PM
19	LDR Na 500 pass	1	52	6/19/2024 6:29:44 PM
20	LDR Ca 1000 pass	1	48	6/19/2024 6:36:52 PM
21	CCV	0	3	6/19/2024 6:44:42 PM
22	CCB	0	4	6/19/2024 6:51:01 PM
23	WG1936221-1 WG1936221	1	53	6/19/2024 7:19:54 PM
24	WG1936221-2d2 WG1936221	1	54	6/19/2024 7:26:35 PM
25	WG1936221-3d2 WG1936221	1	55	6/19/2024 7:32:51 PM
26	L2433434-01d2 WG1936221	1	56	6/19/2024 7:39:07 PM
27	L2433434-02d2 WG1936221	1	57	6/19/2024 7:45:42 PM
28	L2433434-03d2 WG1936221	1	58	6/19/2024 7:52:10 PM
29	L2433434-04d2 WG1936221	1	59	6/19/2024 7:58:46 PM
30	L2433434-05d2 WG1936221	1	60	6/19/2024 8:05:22 PM
31	L2433434-06d2 WG1936221	2	1	6/19/2024 8:11:59 PM
32	L2433434-07d2 WG1936221	2	2	6/19/2024 8:18:33 PM
33	CCV	0	3	6/19/2024 8:25:08 PM
34	CCB	0	4	6/19/2024 8:31:25 PM
35	CCV	0	3	6/19/2024 8:40:53 PM
36	CCB	0	4	6/19/2024 8:47:11 PM
37	L2433434-08d2 WG1936221	2	3	6/19/2024 8:54:59 PM
38	L2433434-09d2 WG1936221	2	4	6/19/2024 9:01:35 PM
39	L2433434-10d2 WG1936221	2	5	6/19/2024 9:08:23 PM
40	L2433434-11d2 WG1936221	2	6	6/19/2024 9:14:56 PM
41	L2433434-12d2 WG1936221	2	7	6/19/2024 9:21:29 PM
42	L2433434-13d2 WG1936221	2	8	6/19/2024 9:28:04 PM
43	L2433434-14d2 WG1936221	2	9	6/19/2024 9:34:52 PM
44	L2433434-15d2 WG1936221	2	10	6/19/2024 9:41:19 PM
45	L2433434-16d2 WG1936221	2	11	6/19/2024 9:47:56 PM
46	L2433434-17d2 WG1936221	2	12	6/19/2024 9:54:31 PM
47	CCV	0	3	6/19/2024 10:01:00 PM
48	CCB	0	4	6/19/2024 10:07:18 PM
49	LDR Fe 500	2	32	6/19/2024 10:56:06 PM
50	L2433434-18d2 WG1936221	2	13	6/19/2024 11:02:48 PM
51	L2433434-19d2 WG1936221	2	14	6/19/2024 11:09:16 PM
52	L2433434-20d2 WG1936221	2	15	6/19/2024 11:16:48 PM
53	L2433379-02d2 WG1936224	2	16	6/19/2024 11:23:22 PM
54	L2433379-03d2 WG1936224	2	17	6/19/2024 11:29:54 PM
55	L2433379-04d2 WG1936224	2	18	6/19/2024 11:36:23 PM
56	L2433379-05d2 WG1936224	2	19	6/19/2024 11:42:54 PM
57	L2433379-06d2 WG1936224	2	20	6/19/2024 11:49:49 PM
58	EL2433379-07d2 WG1936224	2	21	6/19/2024 11:56:21 PM
59	CCV	0	10	6/20/2024 12:03:04 AM
60	CCB	0	4	6/20/2024 12:09:24 AM
61	CCV	0	3	6/20/2024 12:16:08 AM
62	CCB	0	4	6/20/2024 12:22:26 AM
63	L2433379-08d2 WG1936224	2	22	6/20/2024 12:29:10 AM
64	L2433379-09d2 WG1936224	2	23	6/20/2024 12:35:52 AM
65	L2433379-10d2 WG1936224	2	24	6/20/2024 12:42:26 AM
66	L2433379-11d2 WG1936224	2	25	6/20/2024 12:49:01 AM
67	L2433379-12d2 WG1936224	2	26	6/20/2024 12:55:48 AM
68	L2433379-13d2 WG1936224	2	27	6/20/2024 1:02:36 AM
69	L2433379-14d2 WG1936224	2	28	6/20/2024 1:09:16 AM
70	EL2433379-15d2 WG1936224	2	29	6/20/2024 1:16:05 AM
71	L2433379-16d2 WG1936224	2	30	6/20/2024 1:22:38 AM
72	L2433379-27d2 WG1936224	2	31	6/20/2024 1:29:12 AM

Sequence Trace 6

6/20/2024 6:21:17 AM

Index:	Label:	Rack	Vial	Start time:
73	CCV	0	10	6/20/2024 1:36:04 AM
74	CCB	0	4	6/20/2024 1:42:26 AM
75	CCV	0	3	6/20/2024 1:49:08 AM
76	CCB	0	4	6/20/2024 1:55:26 AM
77	LLOQ RL check	0	5	6/20/2024 2:02:08 AM

Sequence Trace 5

6/19/2024 10:44:59 PM

LabBook: WG1936234_06192024T5 - Copy.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DHL Trace5	0	1	6/19/2024 5:25:33 AM
2	ICAL	0	2	6/19/2024 5:31:52 AM
3	ICV	0	3	6/19/2024 5:37:54 AM
4	ICB	0	4	6/19/2024 5:43:58 AM
5	ICV	0	3	6/19/2024 5:50:19 AM
6	ICB	0	4	6/19/2024 5:56:23 AM
7	LLOQ RL	0	5	6/19/2024 6:02:45 AM
8	ICSA	0	6	6/19/2024 6:09:02 AM
9	SIC Multi	0	7	6/19/2024 6:26:19 AM
10	LDR Check	0	8	6/19/2024 6:32:55 AM
11	LLOQ RL 0.01	1	1	6/19/2024 7:01:29 AM
12	LLOQ RL 0.05	1	2	6/19/2024 7:07:47 AM
13	LDR 20 Si	1	3	6/19/2024 7:13:59 AM
14	LDR 400 K	1	4	6/19/2024 7:20:17 AM
15	LDR 250 Na	1	5	6/19/2024 7:26:37 AM
16	CCV	0	3	6/19/2024 7:45:26 AM
17	CCB	0	4	6/19/2024 7:51:30 AM
18	WG1935421-1 WG1935421	1	6	6/19/2024 8:13:52 AM
19	WG1935421-2 WG1935421	1	7	6/19/2024 8:20:12 AM
20	TES MIX	1	30	6/19/2024 8:26:19 AM
21	TEST IPS	1	31	6/19/2024 8:32:34 AM
22	I2432527-02 WG1935421	1	11	6/19/2024 8:38:46 AM
23	I2432527-01 WG1935421	1	8	6/19/2024 8:45:01 AM
24	WG1935421-3 WG1935421	1	9	6/19/2024 8:51:14 AM
25	WG1935421-4 WG1935421	1	10	6/19/2024 8:57:19 AM
26	I2432527-03 WG1935421	1	12	6/19/2024 9:03:34 AM
27	I2432527-04 WG1935421	1	13	6/19/2024 9:09:49 AM
28	CCV	0	3	6/19/2024 9:15:59 AM
29	CCB	0	4	6/19/2024 9:22:05 AM
30	I2432527-05 WG1935421	1	14	6/19/2024 9:36:23 AM
31	I2432527-06 WG1935421	1	15	6/19/2024 9:42:33 AM
32	I2432527-07 WG1935421	1	16	6/19/2024 9:48:44 AM
33	I2432527-08 WG1935421	1	17	6/19/2024 9:54:54 AM
34	I2432527-09 WG1935421	1	18	6/19/2024 10:01:06 AM
35	I2432527-10 WG1935421	1	19	6/19/2024 10:07:18 AM
36	I2432527-11 WG1935421	1	20	6/19/2024 10:13:31 AM
37	I2432527-12 WG1935421	1	21	6/19/2024 10:19:44 AM
38	I2432527-13 WG1935421	1	22	6/19/2024 10:25:57 AM
39	I2432527-14 WG1935421	1	23	6/19/2024 10:32:14 AM
40	CCV	0	3	6/19/2024 10:38:31 AM
41	CCB	0	4	6/19/2024 10:44:35 AM
42	WG1935424-1 WG1935424	1	32	6/19/2024 10:53:19 AM
43	WG1935424-2 WG1935424	1	33	6/19/2024 10:59:38 AM
44	I2432527-15 WG1935421	1	24	6/19/2024 11:05:45 AM
45	I2432527-16 WG1935421	1	25	6/19/2024 11:11:58 AM
46	I2432527-17 WG1935421	1	26	6/19/2024 11:18:13 AM
47	I2432527-18 WG1935421	1	27	6/19/2024 11:24:28 AM
48	I2432527-19 WG1935421	1	28	6/19/2024 11:30:39 AM
49	I2432527-20 WG1935421	1	29	6/19/2024 11:36:51 AM
50	I2432741-02 WG1935424	1	37	6/19/2024 11:43:03 AM
51	I2432741-03 WG1935424	1	38	6/19/2024 11:49:18 AM
52	CCV	0	3	6/19/2024 11:55:33 AM
53	CCB	0	4	6/19/2024 12:01:38 PM
54	I2432741-01 WG1935424	1	34	6/19/2024 12:12:04 PM
55	WG1935424-3 WG1935424	1	35	6/19/2024 12:18:20 PM
56	WG1935424-4 WG1935424	1	36	6/19/2024 12:24:25 PM
57	I2432741-04 WG1935424	1	39	6/19/2024 12:30:43 PM
58	I2432741-05 WG1935424	1	40	6/19/2024 12:36:58 PM
59	I2432741-06 WG1935424	1	41	6/19/2024 12:43:13 PM
60	I2432741-07 WG1935424	1	42	6/19/2024 12:49:30 PM
61	I2432741-08 WG1935424	1	43	6/19/2024 12:55:46 PM
62	I2432741-09 WG1935424	1	44	6/19/2024 1:02:03 PM
63	I2432741-10 WG1935424	1	45	6/19/2024 1:08:19 PM
64	CCV	0	3	6/19/2024 1:14:36 PM
65	CCB	0	4	6/19/2024 1:20:40 PM
66	I2432741-11 WG1935424	1	46	6/19/2024 1:30:32 PM
67	I2432741-12 WG1935424	1	47	6/19/2024 1:36:48 PM
68	I2432741-13 WG1935424	1	48	6/19/2024 1:43:06 PM
69	I2432741-14 WG1935424	1	49	6/19/2024 1:49:24 PM
70	I2432741-16 WG1935424	1	50	6/19/2024 1:55:40 PM
71	I2432741-18 WG1935424	1	51	6/19/2024 2:01:57 PM
72	I2432741-19 WG1935424	1	52	6/19/2024 2:08:12 PM

Sequence Trace 5

6/19/2024 10:44:59 PM

Index:	Label:	Rack	Vial	Start time:
73	I2432741-20 WG1935424	1	53	6/19/2024 2:14:28 PM
74	I2433335-01 WG1935424	1	54	6/19/2024 2:20:44 PM
75	CCV	0	3	6/19/2024 2:27:00 PM
76	CCB	0	4	6/19/2024 2:33:04 PM
77	wg1935943-1 wg1935943	1	55	6/19/2024 3:03:04 PM
78	wg1935943-2 wg1935943	1	56	6/19/2024 3:09:24 PM
79	L2433375-04 wg1935943	1	57	6/19/2024 3:15:31 PM
80	wg1935943-3 wg1935943	1	58	6/19/2024 3:21:48 PM
81	wg1935943-4 wg1935943	1	59	6/19/2024 3:27:54 PM
82	wg1935943-5 wg1935943	1	60	6/19/2024 3:33:59 PM
83	wg1935943-6d5 wg1935943	2	1	6/19/2024 3:40:05 PM
84	L2432579-03 wg1935943	2	2	6/19/2024 3:46:21 PM
85	CCV	0	3	6/19/2024 3:52:37 PM
86	CCB	0	4	6/19/2024 3:58:41 PM
87	WG1936059-1 WG1936059	2	7	6/19/2024 4:38:50 PM
88	WG1936059-2 WG1936059	2	8	6/19/2024 4:45:11 PM
89	L2433046-01 wg1935354	2	3	6/19/2024 4:51:17 PM
90	L2433047-01 wg1935354	2	4	6/19/2024 4:57:31 PM
91	L2433060-01 wg1935354	2	5	6/19/2024 5:03:47 PM
92	L2433065-01 wg1935354	2	6	6/19/2024 5:10:02 PM
93	CCV	0	3	6/19/2024 5:16:14 PM
94	CCB	0	4	6/19/2024 5:22:19 PM
95	CCV	0	3	6/19/2024 5:42:59 PM
96	CCB	0	4	6/19/2024 5:49:03 PM
97	WG1936030-1 WG1936030	2	20	6/19/2024 6:12:43 PM
98	WG1936030-2 WG1936030	2	21	6/19/2024 6:19:02 PM
99	WG1936030-3 WG1936030	2	22	6/19/2024 6:25:09 PM
100	L2431372-01d2 WG1935403	2	13	6/19/2024 6:31:20 PM
101	L2431372-02d2 WG1935403	2	14	6/19/2024 6:37:34 PM
102	L2431372-03d2 WG1935403	2	15	6/19/2024 6:43:50 PM
103	L2432929-01 WG1936059	2	9	6/19/2024 6:50:00 PM
104	WG1936059-3 WG1936059	2	10	6/19/2024 6:56:19 PM
105	WG1936059-4 WG1936059	2	11	6/19/2024 7:02:26 PM
106	L2433126-01 WG1936059	2	12	6/19/2024 7:08:45 PM
107	CCV	0	3	6/19/2024 7:15:03 PM
108	CCB	0	4	6/19/2024 7:21:08 PM
109	CCV	0	3	6/19/2024 7:28:58 PM
110	CCB	0	4	6/19/2024 7:35:26 PM
111	L2432987-01d2 WG1935403	2	16	6/19/2024 7:53:52 PM
112	L2432987-03d2 WG1935403	2	17	6/19/2024 8:00:05 PM
113	L2432987-04d2 WG1935403	2	18	6/19/2024 8:06:23 PM
114	L2432987-05d2 WG1935403	2	19	6/19/2024 8:13:25 PM
115	I2432197-01 WG1936030	2	23	6/19/2024 8:20:49 PM
116	I2433494-01 WG1935502	2	24	6/19/2024 8:27:35 PM
117	I2433494-02 WG1935502	2	25	6/19/2024 8:33:53 PM
118	I2433494-03 WG1935502	2	26	6/19/2024 8:40:10 PM
119	I2433494-04 WG1935502	2	27	6/19/2024 8:46:27 PM
120	I2433494-05 WG1935502	2	28	6/19/2024 8:52:45 PM
121	CCV	0	3	6/19/2024 8:59:02 PM
122	CCB	0	4	6/19/2024 9:05:06 PM
123	CCV	0	3	6/19/2024 9:15:00 PM
124	CCB	0	4	6/19/2024 9:21:06 PM
125	I2433494-06 WG1935502	2	29	6/19/2024 9:28:11 PM
126	I2433494-07 WG1935502	2	30	6/19/2024 9:34:24 PM
127	I2433494-08 WG1935502	2	31	6/19/2024 9:40:40 PM
128	I2433494-10 WG1935502	2	32	6/19/2024 9:46:57 PM
129	CCV	0	3	6/19/2024 9:53:18 PM
130	CCB	0	4	6/19/2024 9:59:22 PM
131	CCV	0	3	6/19/2024 10:05:44 PM
132	CCB	0	4	6/19/2024 10:11:48 PM
133	LLOQ RL	0	5	6/19/2024 10:30:20 PM

Sequence Trace 9

6/20/2024 11:53:54 AM

LabBook: WG1936852_06202024T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank JMF Trace9	0	1	6/20/2024 6:03:05 AM
2	ICAL	0	2	6/20/2024 6:06:26 AM
3	ICV	0	3	6/20/2024 6:09:54 AM
4	ICB	0	4	6/20/2024 6:13:22 AM
5	ICV	0	3	6/20/2024 6:16:51 AM
6	ICB	0	4	6/20/2024 6:20:20 AM
7	LLOQ	0	5	6/20/2024 6:23:49 AM
8	LLOQ 0.005ppm As	1	1	6/20/2024 6:48:27 AM
9	zLLOQ 0.01ppm	1	2	6/20/2024 6:52:11 AM
10	xICSA	0	6	6/20/2024 6:55:39 AM
11	ICSA	0	6	6/20/2024 6:56:54 AM
12	LDR 500 Fe pass _IEC +Cr +Se	1	3	6/20/2024 7:00:33 AM
13	LDR 1000 Ca pass _IEC -As +Cd +Se	1	4	6/20/2024 7:04:01 AM
14	SIC Multi	0	7	6/20/2024 7:07:30 AM
15	IEC 20 Ti +Si +Tl	1	5	6/20/2024 7:11:01 AM
16	LDR Check	0	8	6/20/2024 7:14:30 AM
17	LDR 500 Na	1	6	6/20/2024 7:18:01 AM
18	LDR 20 As	1	7	6/20/2024 7:45:43 AM
19	CCV	0	3	6/20/2024 7:56:35 AM
20	CCB	0	4	6/20/2024 8:00:18 AM
21	WG1935943-1 WG1935943	1	8	6/20/2024 8:18:14 AM
22	WG1935943-2 WG1935943	1	9	6/20/2024 8:21:58 AM
23	L2433375-01 WG1935943	1	15	6/20/2024 8:25:28 AM
24	L2433375-02 WG1935943	1	16	6/20/2024 8:28:56 AM
25	L2433375-03 WG1935943	1	17	6/20/2024 8:32:24 AM
26	L2433375-04 WG1935943	1	10	6/20/2024 8:35:53 AM
27	WG1935943-3 WG1935943	1	11	6/20/2024 8:39:23 AM
28	WG1935943-4 WG1935943	1	12	6/20/2024 8:42:54 AM
29	WG1935943-5 WG1935943	1	13	6/20/2024 8:46:26 AM
30	WG1935943-6D5 WG1935943	1	14	6/20/2024 8:49:52 AM
31	CCV	0	3	6/20/2024 8:53:20 AM
32	CCB	0	4	6/20/2024 8:56:49 AM
33	WG1936458-1 WG1936458	1	22	6/20/2024 9:02:43 AM
34	WG1936458-2 WG1936458	1	23	6/20/2024 9:06:24 AM
35	L2433375-05 WG1935943	1	18	6/20/2024 9:09:54 AM
36	L2433375-06 WG1935943	1	19	6/20/2024 9:13:23 AM
37	L2433375-07 WG1935943	1	20	6/20/2024 9:16:52 AM
38	L2433375-08 WG1935943	1	21	6/20/2024 9:20:21 AM
39	L2433235-01 WG1936458	1	24	6/20/2024 9:23:50 AM
40	WG1936458-3 WG1936458	1	25	6/20/2024 9:27:21 AM
41	WG1936458-4 WG1936458	1	26	6/20/2024 9:30:48 AM
42	L2433235-02 WG1936458	1	27	6/20/2024 9:34:15 AM
43	CCV	0	3	6/20/2024 9:37:43 AM
44	CCB	0	4	6/20/2024 9:41:12 AM
45	WG1936544-1 WG1936544	1	33	6/20/2024 9:56:37 AM
46	WG1936544-2D2 WG1936544	1	34	6/20/2024 10:00:23 AM
47	L2433218-06D2 WG1936544	1	40	6/20/2024 10:03:53 AM
48	eL2433218-12D2 WG1936544	1	41	6/20/2024 10:07:20 AM
49	eL2433539-12D2 WG1936544	1	51	6/20/2024 10:10:48 AM
50	eL2433539-11D2 WG1936544	1	35	6/20/2024 10:14:16 AM
51	L2433440-22 WG1936458	1	28	6/20/2024 10:23:01 AM
52	L2433440-23 WG1936458	1	29	6/20/2024 10:26:43 AM
53	L2433440-26 WG1936458	1	30	6/20/2024 10:30:11 AM
54	L2433440-27 WG1936458	1	31	6/20/2024 10:33:39 AM
55	CCV	0	3	6/20/2024 10:37:08 AM
56	CCB	0	4	6/20/2024 10:40:37 AM
57	L2433440-29 WG1936458	1	32	6/20/2024 10:47:16 AM
58	L2433493-02D2 WG1936544	1	50	6/20/2024 10:50:59 AM
59	L2433309-01D2 WG1936544	1	46	6/20/2024 10:54:27 AM
60	L2433218-12D5 WG1936544	1	58	6/20/2024 10:57:57 AM
61	L2433539-12D4 WG1936544	1	59	6/20/2024 11:01:27 AM
62	L2433539-11D8 WG1936544	1	35	6/20/2024 11:04:57 AM
63	WG1936544-3D8 WG1936544	1	36	6/20/2024 11:08:27 AM
64	WG1936544-4D8 WG1936544	1	37	6/20/2024 11:11:57 AM
65	WG1936544-5D8 WG1936544	1	38	6/20/2024 11:19:21 AM
66	WG1936544-6D40 WG1936544	1	39	6/20/2024 11:22:55 AM
67	CCV	0	3	6/20/2024 11:26:22 AM
68	CCB	0	4	6/20/2024 11:29:51 AM

Sequence Trace 9

6/20/2024 11:53:54 AM

Index	Label	Rack	Vial	Started at
69	L2433264-01D2 WG1936544	1	42	
70	L2433264-02D2 WG1936544	1	43	
71	L2433264-03D2 WG1936544	1	44	
72	L2433264-04D2 WG1936544	1	45	
73	L2433348-01D2 WG1936544	1	47	
74	L2433348-02D2 WG1936544	1	48	
75	L2433348-03D2 WG1936544	1	49	
76	L2433541-01D2 WG1936544	1	52	
77	L2433541-02D2 WG1936544	1	53	
78	L2433541-03D2 WG1936544	1	54	
79	CCV	0	3	
80	CCB	0	4	
81	L2433541-04D2 WG1936544	1	55	
82	L2433541-05D2 WG1936544	1	56	
83	L2433541-06D2 WG1936544	1	57	
84		1	60	
85		2	1	
86		2	2	
87		2	3	
88		2	4	
89		2	5	
90		2	6	
91		2	7	
92	CCV	0	3	
93	CCB	0	4	
94	CCV	0	3	
95	CCB	0	4	
96	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG1935889

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324230 71600EFM	1:1 HCl	tHCL242305 2216FAO	METALS	METSPIKE2	FPS,IPS,MIX	METSPIKE2	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2433232-01 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-01 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-02 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-03 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-04 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-05 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-06 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-07 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433375-08 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433492-01 WATER	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433501-07 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433502-02 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2433529-01 WATER	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
L2434003-02 SAMP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	

Reported: 20-JUN-24 01:47 PM

METALS ELN REPORT

Workgroup: WG1935889

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1935889-1 BLANK	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	FM2424130641 ADG
WG1935889-2 LCS	06/18/24 15:23	Maisie Mcqueen	50	<2	0.5	06/18/24 15:23	9	94.3	06/18/24 18:23	50	ELN:cme
WG1935889-3 MS	06/18/24 15:23	Maisie Mcqueen	50	<2	0.5	06/18/24 15:23	9	94.3	06/18/24 18:23	50	
WG1935889-4 MSD	06/18/24 15:23	Maisie Mcqueen	50	<2	0.5	06/18/24 15:23	9	94.3	06/18/24 18:23	50	
WG1935889-5 PS	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
WG1935889-6 SERDIL	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
WG1935889-7 MS	06/18/24 15:23	Maisie Mcqueen	50	<2	0.5	06/18/24 15:23	9	94.3	06/18/24 18:23	50	
WG1935889-8 DUP	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
WG1935889-9 PS	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	
WG1935889-10 SERDIL	06/18/24 15:23	Maisie Mcqueen	50	<2		06/18/24 15:23	9	94.3	06/18/24 18:23	50	IPS2418041124HCR

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 20-JUN-24 01:47 PM

METALS ELN REPORT

Workgroup: WG1935943

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324241 40727EFM	1:1 HCl	tHCL242125 0443FAC	METALS	METSPIKE2	FPS,IPS,MIX	METSPIKE2	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2432579-03 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-01 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-02 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-03 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-04 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-05 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-06 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-07 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
L2433375-08 SAMP	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
WG1935943-1 BLANK	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	ELN: mgm
WG1935943-2 LCS	06/18/24 15:53	Cristy Estevez	NA	50	<2	0.5	06/18/24 15:53	10	94.9	06/18/24 18:53	50	
WG1935943-3 MS	06/18/24 15:53	Cristy Estevez	NA	50	<2	0.5	06/18/24 15:53	10	94.9	06/18/24 18:53	50	FM2424130641 ADG
WG1935943-4 MSD	06/18/24 15:53	Cristy Estevez	NA	50	<2	0.5	06/18/24 15:53	10	94.9	06/18/24 18:53	50	IPS2418041124HCR

Reported: 20-JUN-24 01:47 PM

METALS ELN REPORT

Workgroup: WG1935943

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG1935943-5 PS	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	
WG1935943-6 SERDIL	06/18/24 15:53	Cristy Estevez	NA	50	<2		06/18/24 15:53	10	94.9	06/18/24 18:53	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 20-JUN-24 01:47 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 09:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1936358.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935899-1	**Date Collected**	: NA
Client ID	: WG1935899-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 09:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1936358.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.0002	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:22
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935944-1	**Date Collected**	: NA
Client ID	: WG1935944-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 11:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:26
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 10:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935899-6	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12SDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/20/24 10:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936966.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.0002	0.0001	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842911-1			R1842911-3						
Date Analyzed	:	06/19/24 09:06			06/19/24 10:11						
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0030	101	0.0050	0.00500	99				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1843570-1			R1843570-3			R1843570-5		R1843570-7	
Date Analyzed :	06/20/24 09:49			06/20/24 10:46			06/20/24 11:29		06/20/24 12:52	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0031	102	0.0050	0.00550	109	0.00540	109	0.00540	107

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1843570-1			R1843570-3						
Date Analyzed	:	06/20/24 09:49			06/20/24 10:46						
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0031	102	0.0050	0.00550	109				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842911-2		R1842911-4						WG1935899-1	
Date Analyzed :	06/19/24 09:09		06/19/24 10:14						06/19/24 09:41	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U					0.0001	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1843570-2		R1843570-4		R1843570-6		R1843570-8		WG1935944-1	
Date Analyzed :	06/20/24 09:53		06/20/24 10:50		06/20/24 11:32		06/20/24 12:55		06/20/24 11:06	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1843570-2		R1843570-4							
Date Analyzed	:	06/20/24 09:53		06/20/24 10:50							
Parameter		**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Mercury		0.0000910	U	0.0000910	U						

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: LIQUID
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1935899-3	**MS Analysis Date**	: 06/19/24 09:51
Matrix Spike Dup	: WG1935899-4	**MSD Analysis Date**	: 06/19/24 09:54

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.0052**	**103**	**0.005**	**0.0052**	**104**	**1**	**70-130**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1935944-3	**MS Analysis Date**	: 06/20/24 11:16
Matrix Spike Dup	: WG1935944-4	**MSD Analysis Date**	: 06/20/24 11:19

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00524	105	0.005	0.00515	103	2	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-12S	**Matrix**	: LIQUID
Lab Sample ID	: L2433375-05		
Matrix Spike	: WG1935899-5	**MS Analysis Date**	: 06/20/24 10:20
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.0054**	**108**					**70-130**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-12S	**Matrix**	: LIQUID
Lab Sample ID	: L2433375-05	**Analysis Date**	: 06/20/24 10:17
Dup Sample ID	: WG1935899-6	**DUP Analysis Date**	: 06/20/24 10:23

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: LIQUID
Lab Sample ID	: WG1935899-2	**LCS Analysis Date**	: 06/19/24 09:44
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**0.00100**	**0.00100**	**104.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935944-2	**LCS Analysis Date**	: 06/20/24 11:09
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**0.00100**	**0.00104**	**105.**					**85-115**	**20**

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433375-04	06/18/24 17:40	-	25
WG1935899-1	06/18/24 17:40	-	25
WG1935899-2	06/18/24 17:40	-	25
WG1935899-3	06/18/24 17:40	-	25
WG1935899-4	06/18/24 17:40	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433375-01	06/18/24 16:27	-	25
L2433375-02	06/18/24 16:27	-	25
L2433375-03	06/18/24 16:27	-	25
L2433375-04	06/18/24 16:27	-	25
L2433375-05	06/18/24 16:27	-	25
L2433375-06	06/18/24 16:27	-	25
L2433375-07	06/18/24 16:27	-	25
L2433375-08	06/18/24 16:27	-	25
WG1935944-1	06/18/24 16:27	-	25
WG1935944-2	06/18/24 16:27	-	25
WG1935944-3	06/18/24 16:27	-	25
WG1935944-4	06/18/24 16:27	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433375-01	06/18/24 17:40	-	25
L2433375-02	06/18/24 17:40	-	25
L2433375-03	06/18/24 17:40	-	25
L2433375-05	06/18/24 17:40	-	25
L2433375-06	06/18/24 17:40	-	25
L2433375-07	06/18/24 17:40	-	25
L2433375-08	06/18/24 17:40	-	25
WG1935899-5	06/18/24 17:40	-	25
WG1935899-6	06/18/24 17:40	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 06/19/24 09:06	**End Date**	: 06/19/24 10:14

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1842911-1 ICV	1	09:06:16	X
R1842911-2 ICB	1	09:09:34	X
WG1935899-1 BLANK	1	09:41:18	X
WG1935899-2 LCS	1	09:44:37	X
L2433375-04	1	09:47:55	X
WG1935899-3 MS	1	09:51:14	X
WG1935899-4 MSD	1	09:54:33	X
R1842911-3 CCV	1	10:11:07	X
R1842911-4 CCB	1	10:14:25	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 06/20/24 09:49	**End Date**	: 06/20/24 12:55

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1843570-1 ICV	1	09:49:58	X
R1843570-2 ICB	1	09:53:17	X
R1843570-3 CCV	1	10:46:49	X
R1843570-4 CCB	1	10:50:08	X
WG1935944-1 BLANK	1	11:06:29	X
WG1935944-2 LCS	1	11:09:47	X
L2433375-04	1	11:13:05	X
WG1935944-3 MS	1	11:16:23	X
WG1935944-4 MSD	1	11:19:40	X
L2433375-01	1	11:22:58	X
L2433375-02	1	11:26:17	X
R1843570-5 CCV	1	11:29:35	X
R1843570-6 CCB	1	11:32:52	X
L2433375-03	1	11:36:10	X
L2433375-05	1	11:39:29	X
L2433375-06	1	11:42:47	X
L2433375-07	1	11:46:05	X
L2433375-08	1	11:49:23	X
R1843570-7 CCV	1	12:52:32	X
R1843570-8 CCB	1	12:55:51	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 06/20/24 09:49	**End Date**	: 06/20/24 10:50

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1843570-1 ICV	1	09:49:58	X
R1843570-2 ICB	1	09:53:17	X
L2433375-05	1	10:17:02	X
WG1935899-5 MS	1	10:20:21	X
WG1935899-6 DUP	1	10:23:41	X
L2433375-01	1	10:26:59	X
L2433375-02	1	10:30:18	X
L2433375-03	1	10:33:37	X
L2433375-06	1	10:36:54	X
L2433375-07	1	10:40:12	X
L2433375-08	1	10:43:31	X
R1843570-3 CCV	1	10:46:49	X
R1843570-4 CCB	1	10:50:08	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Title :
Date : 06/19/2024
Name :

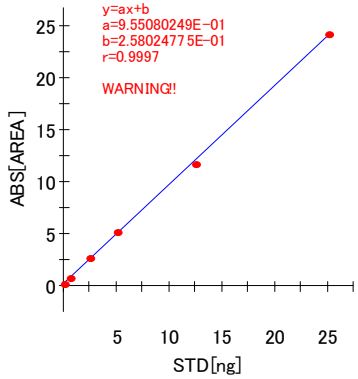
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.2476	-0.0109	-	06/19/2024 08:46	MJR,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.7507	0.5158	3.2	06/19/2024 08:49	MJR,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.7337	2.5921	3.7	06/19/2024 08:53	MJR,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.2139	5.1890	3.8	06/19/2024 08:56	MJR,NIC3
5	5.000	2.500	2.500	2.500	12.500	11.7406	12.0226	3.8	06/19/2024 08:59	MJR,NIC3
6	10.000	2.500	2.500	2.500	25.000	24.3178	25.1914	0.8	06/19/2024 09:02	MJR,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.5109	7.5940	3.038	-	06/19/2024 09:06	MJR,NIC3
2	ICB	2.500	2.500	2.500	0.2525	-0.0058	-0.002	-	06/19/2024 09:09	MJR,NIC3
3	0.2PPB	2.500	2.500	2.500	0.7482	0.5132	0.205	-	06/19/2024 09:16	MJR,NIC3
4	WG1935899-1 WG1935899	2.500	2.500	2.500	0.2158	-0.0442	-0.018	-	06/19/2024 09:41	MJR,NIC3
5	WG1935899-2 WG1935899	2.500	2.500	2.500	2.7446	2.6035	1.041	-	06/19/2024 09:44	MJR,NIC3
6	I2433375-04 WG1935899	2.500	2.500	2.500	0.2971	0.0409	0.016	-	06/19/2024 09:47	MJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1935899-3 WG1935899	2.500	2.500	2.500	12.6070	12.9298	5.172	-	06/19/2024 09:51	MJR,NIC3
8	WG1935899-4 WG1935899	2.500	2.500	2.500	12.7126	13.0403	5.216	-	06/19/2024 09:54	MJR,NIC3
9	I2434003-02 WG1935899	2.500	2.500	2.500	0.3446	0.0906	0.036	-	06/19/2024 09:57	MJR,NIC3
10	I2432838-01 WG1935899	2.500	2.500	2.500	1.1511	0.9351	0.374	-	06/19/2024 10:01	MJR,NIC3
11	I2432903-03 WG1935899	2.500	2.500	2.500	0.2883	0.0317	0.013	-	06/19/2024 10:04	MJR,NIC3
12	I2432981-01 WG1935899	2.500	2.500	2.500	0.3178	0.0626	0.025	-	06/19/2024 10:07	MJR,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	12.0846	12.3828	4.953	99.1	06/19/2024 10:11	MJR,NIC3
14	Check Blank	2.500	2.500	2.500	0.2450	-0.0136	-0.005	-	06/19/2024 10:14	MJR,NIC3
15	I2432983-01 WG1935899	2.500	2.500	2.500	0.2993	0.0432	0.017	-	06/19/2024 10:17	MJR,NIC3
16	wg1936281-1 wg1936281	2.500	2.500	2.500	0.2141	-0.0460	-0.018	-	06/19/2024 10:21	MJR,NIC3
17	wg1936281-2 wg1936281	2.500	2.500	2.500	2.6756	2.5313	1.013	-	06/19/2024 10:24	MJR,NIC3
18	I2434343-01 wg1936281	2.500	2.500	2.500	0.2357	-0.0234	-0.009	-	06/19/2024 10:27	MJR,NIC3
19	wg1936281-3 wg1936281	2.500	2.500	2.500	12.5801	12.9016	5.161	-	06/19/2024 10:30	MJR,NIC3
20	wg1936281-4 wg1936281	2.500	2.500	2.500	0.2592	0.0012	0.000	-	06/19/2024 10:34	MJR,NIC3
21	I2432996-05 WG1934995	2.500	2.500	2.500	0.8441	0.6136	0.245	-	06/19/2024 10:37	MJR,NIC3
22	I2432996-06 WG1934995	2.500	2.500	2.500	1.6544	1.4621	0.585	-	06/19/2024 10:40	MJR,NIC3
23	I2433107-01 WG1934995	2.500	2.500	2.500	0.3014	0.0454	0.018	-	06/19/2024 10:44	MJR,NIC3
24	I2433107-02 WG1934995	2.500	2.500	2.500	0.2860	0.0293	0.012	-	06/19/2024 10:47	MJR,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	11.9888	12.2825	4.913	98.3	06/19/2024 10:50	MJR,NIC3
26	Check Blank	2.500	2.500	2.500	0.2478	-0.0107	-0.004	-	06/19/2024 10:54	MJR,NIC3
27	I2433107-03 WG1934995	2.500	2.500	2.500	0.2625	0.0047	0.002	-	06/19/2024 10:57	MJR,NIC3
28	I2433107-04 WG1934995	2.500	2.500	2.500	0.2583	0.0003	0.000	-	06/19/2024 11:00	MJR,NIC3
29	I2433160-01 WG1934995	2.500	2.500	2.500	0.2681	0.0105	0.004	-	06/19/2024 11:04	MJR,NIC3
30	wg1936353-1 wg1936353	2.500	2.500	2.500	0.2377	-0.0213	-0.009	-	06/19/2024 11:41	MJR,NIC3
31	wg1936353-2 wg1936353	2.500	2.500	2.500	2.7503	2.6095	1.044	-	06/19/2024 11:44	MJR,NIC3
32	I2434070-01 wg1936353	2.500	2.500	2.500	0.2283	-0.0311	-0.012	-	06/19/2024 11:47	MJR,NIC3
33	wg1936353-3 wg1936353	2.500	2.500	2.500	12.8690	13.2041	5.282	-	06/19/2024 11:51	MJR,NIC3
34	wg1936353-4 wg1936353	2.500	2.500	2.500	0.2657	0.0080	0.003	-	06/19/2024 11:54	MJR,NIC3
35	I2434070-02 wg1936353	2.500	2.500	2.500	0.2573	-0.0008	-0.000	-	06/19/2024 11:57	MJR,NIC3
36	WG1935284-1 WG1935284	2.500	2.500	2.500	0.2249	-0.0347	-0.014	-	06/19/2024 12:04	MJR,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	11.9471	12.2388	4.896	97.9	06/19/2024 12:07	MJR,NIC3
38	Check Blank	2.500	2.500	2.500	0.2419	-0.0169	-0.007	-	06/19/2024 12:11	MJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	WG1935284-2 WG1935284	2.500	2.500	2.500	2.6820	2.5380	1.015	-	06/19/2024 12:14	MJR,NIC3
40	I2432606-01 WG1935284	2.500	2.500	2.500	0.2452	-0.0134	-0.005	-	06/19/2024 12:18	MJR,NIC3
41	WG1935284-3 WG1935284	2.500	2.500	2.500	12.3802	12.6923	5.077	-	06/19/2024 12:21	MJR,NIC3
42	WG1935284-4 WG1935284	2.500	2.500	2.500	0.2449	-0.0137	-0.005	-	06/19/2024 12:24	MJR,NIC3
43	I2432886-02 WG1935284	2.500	2.500	2.500	0.2459	-0.0127	-0.005	-	06/19/2024 12:27	MJR,NIC3
44	I2432957-01 WG1935284	2.500	2.500	2.500	0.2495	-0.0089	-0.004	-	06/19/2024 12:31	MJR,NIC3
45	I2433042-01 WG1935284	2.500	2.500	2.500	0.2496	-0.0088	-0.004	-	06/19/2024 12:34	MJR,NIC3
46	I2433053-01 WG1935284	2.500	2.500	2.500	0.2318	-0.0275	-0.011	-	06/19/2024 12:37	MJR,NIC3
47	I2433055-01 WG1935284	2.500	2.500	2.500	0.2219	-0.0378	-0.015	-	06/19/2024 12:41	MJR,NIC3
48	I2433056-01 WG1935284	2.500	2.500	2.500	0.2251	-0.0345	-0.014	-	06/19/2024 12:44	MJR,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	12.2979	12.6061	5.042	100.8	06/19/2024 12:47	MJR,NIC3
50	Check Blank	2.500	2.500	2.500	0.2416	-0.0172	-0.007	-	06/19/2024 12:51	MJR,NIC3
51	I2433066-01 WG1935284	2.500	2.500	2.500	0.2277	-0.0318	-0.013	-	06/19/2024 12:58	MJR,NIC3
52	Check STD(5ug/L)	2.500	2.500	2.500	12.1534	12.4548	4.982	99.6	06/19/2024 14:13	MJR,NIC3
53	Check Blank	2.500	2.500	2.500	0.2344	-0.0247	-0.010	-	06/19/2024 14:16	MJR,NIC3
54	Check STD(5ug/L)	2.500	2.500	2.500	11.3377	11.6008	4.640	92.8	06/19/2024 16:12	MJR,NIC3
55	Check Blank	2.500	2.500	2.500	0.2277	-0.0318	-0.013	-	06/19/2024 16:15	MJR,NIC3
56	wg1935458-1 wg1935458	2.500	2.500	2.500	0.2429	-0.0158	-0.006	-	06/19/2024 16:32	MJR,NIC3
57	wg1935458-2 wg1935458	2.500	2.500	2.500	2.7117	2.5691	1.028	-	06/19/2024 16:35	MJR,NIC3
58	L2433153-04 wg1935458	2.500	2.500	2.500	0.2381	-0.0209	-0.008	-	06/19/2024 16:39	MJR,NIC3
59	wg1935458-3 wg1935458	2.500	2.500	2.500	12.6257	12.9494	5.180	-	06/19/2024 16:42	MJR,NIC3
60	wg1935458-4 wg1935458	2.500	2.500	2.500	12.2824	12.5899	5.036	-	06/19/2024 16:45	MJR,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	12.2738	12.5809	5.032	100.6	06/19/2024 16:49	MJR,NIC3
62	Check Blank	2.500	2.500	2.500	0.2345	-0.0246	-0.010	-	06/19/2024 16:52	MJR,NIC3
63	L2433153-01 wg1935458	2.500	2.500	2.500	0.3059	0.0501	0.020	-	06/19/2024 16:55	MJR,NIC3
64	L2433153-02 wg1935458	2.500	2.500	2.500	0.3296	0.0749	0.030	-	06/19/2024 16:58	MJR,NIC3
65	L2433153-03 wg1935458	2.500	2.500	2.500	0.2534	-0.0048	-0.002	-	06/19/2024 17:02	MJR,NIC3
66	L2433153-05 wg1935458	2.500	2.500	2.500	0.2674	0.0098	0.004	-	06/19/2024 17:05	MJR,NIC3
67	L2433153-06 wg1935458	2.500	2.500	2.500	0.2392	-0.0197	-0.008	-	06/19/2024 17:08	MJR,NIC3
68	L2433153-07 wg1935458	2.500	2.500	2.500	0.2405	-0.0183	-0.007	-	06/19/2024 17:12	MJR,NIC3
69	L2433153-08 wg1935458	2.500	2.500	2.500	0.2248	-0.0348	-0.014	-	06/19/2024 17:15	MJR,NIC3
70	L2433154-01 wg1935458	2.500	2.500	2.500	0.5156	0.2697	0.108	-	06/19/2024 17:18	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2433154-03 wg1935458	2.500	2.500	2.500	0.2485	-0.0100	-0.004	-	06/19/2024 17:22	MJR,NIC3
72	L2433154-04 wg1935458	2.500	2.500	2.500	0.5222	0.2766	0.111	-	06/19/2024 17:25	MJR,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	12.2283	12.5333	5.013	100.3	06/19/2024 17:28	MJR,NIC3
74	Check Blank	2.500	2.500	2.500	0.2362	-0.0229	-0.009	-	06/19/2024 17:31	MJR,NIC3
75	L2433154-05 wg1935458	2.500	2.500	2.500	1.9719	1.7945	0.718	-	06/19/2024 17:35	MJR,NIC3
76	L2433154-06 wg1935458	2.500	2.500	2.500	2.4963	2.3435	0.937	-	06/19/2024 17:38	MJR,NIC3
77	L2433154-08 wg1935458	2.500	2.500	2.500	3.1279	3.0049	1.202	-	06/19/2024 17:41	MJR,NIC3
78	xL2433154-09 wg1935458	2.500	2.500	2.500	50.6415	52.7531	21.101	-	06/19/2024 17:45	MJR,NIC3
79	L2433154-10 wg1935458	2.500	2.500	2.500	2.0045	1.8286	0.731	-	06/19/2024 17:48	MJR,NIC3
80	L2433154-11 wg1935458	2.500	2.500	2.500	16.7592	17.2773	6.911	-	06/19/2024 17:51	MJR,NIC3
81	L2433154-12 wg1935458	2.500	2.500	2.500	0.2767	0.0196	0.008	-	06/19/2024 17:55	MJR,NIC3
82	L2433154-13 wg1935458	2.500	2.500	2.500	2.2711	2.1078	0.843	-	06/19/2024 17:58	MJR,NIC3
83	L2433154-14 wg1935458	2.500	2.500	2.500	0.2822	0.0253	0.010	-	06/19/2024 18:01	MJR,NIC3
84	L2433154-09d5 wg1935458	2.500	2.500	2.500	10.0540	10.2567	4.103	-	06/19/2024 18:05	MJR,NIC3
85	Check STD(5ug/L)	2.500	2.500	2.500	10.8289	11.0680	4.427	88.5	06/19/2024 18:27	DJR,NIC3
86	Check Blank	2.500	2.500	2.500	0.2368	-0.0222	-0.009	-	06/19/2024 18:30	DJR,NIC3
87	Check STD(5ug/L)	2.500	2.500	2.500	12.0042	12.2986	4.919	98.4	06/19/2024 18:36	DJR,NIC3
88	Check Blank	2.500	2.500	2.500	0.2455	-0.0131	-0.005	-	06/19/2024 18:39	DJR,NIC3
89	XWG1932702-1 WG1932702	2.500	2.500	2.500	0.3519	0.0983	0.039	-	06/19/2024 18:42	DJR,NIC3
90	XWG1932702-2 WG1932702	2.500	2.500	2.500	2.5543	2.4043	0.962	-	06/19/2024 18:46	DJR,NIC3
91	XWG1932702-3 WG1932702	2.500	2.500	2.500	2.8850	2.7505	1.100	-	06/19/2024 18:49	DJR,NIC3
92	XWG1932702-4 WG1932702	2.500	2.500	2.500	3.2544	3.1373	1.255	-	06/19/2024 18:52	DJR,NIC3
93	XWG1932702-5 WG1932702	2.500	2.500	2.500	3.0201	2.8920	1.157	-	06/19/2024 18:56	DJR,NIC3
94	XWG1932702-4 WG1932702	2.500	2.500	2.500	3.3638	3.2518	1.301	-	06/19/2024 20:16	DJR,NIC3
95	Check STD(5ug/L)	2.500	2.500	2.500	11.7597	12.0426	4.817	96.3	06/19/2024 20:41	DJR,NIC3
96	Check Blank	2.500	2.500	2.500	0.2373	-0.0217	-0.009	-	06/19/2024 20:44	DJR,NIC3
97	WG1935873-1 WG1935873	2.500	2.500	2.500	0.2720	0.0146	0.006	-	06/19/2024 21:01	DJR,NIC3
98	WG1935873-2 WG1935873	2.500	2.500	2.500	2.7399	2.5986	1.039	-	06/19/2024 21:05	DJR,NIC3
99	I2432990-01 WG1935873	2.500	2.500	2.500	0.2643	0.0066	0.003	-	06/19/2024 21:08	DJR,NIC3
100	WG1935873-3 WG1935873	2.500	2.500	2.500	12.3884	12.7009	5.080	-	06/19/2024 21:11	DJR,NIC3
101	WG1935873-4 WG1935873	2.500	2.500	2.500	0.2828	0.0259	0.010	-	06/19/2024 21:15	DJR,NIC3
102	I2432990-02 WG1935873	2.500	2.500	2.500	0.2682	0.0107	0.004	-	06/19/2024 21:18	DJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	I2432990-03 WG1935873	2.500	2.500	2.500	0.2717	0.0143	0.006	-	06/19/2024 21:21	DJR,NIC3
104	I2432990-04 WG1935873	2.500	2.500	2.500	0.2649	0.0072	0.003	-	06/19/2024 21:25	DJR,NIC3
105	I2433097-02 WG1935873	2.500	2.500	2.500	0.2635	0.0057	0.002	-	06/19/2024 21:28	DJR,NIC3
106	I2433097-03 WG1935873	2.500	2.500	2.500	0.2638	0.0060	0.002	-	06/19/2024 21:31	DJR,NIC3
107	Check STD(5ug/L)	2.500	2.500	2.500	11.9445	12.2361	4.894	97.9	06/19/2024 21:35	DJR,NIC3
108	Check Blank	2.500	2.500	2.500	0.2403	-0.0186	-0.007	-	06/19/2024 21:38	DJR,NIC3
109	I2433097-04 WG1935873	2.500	2.500	2.500	0.2587	0.0007	0.000	-	06/19/2024 21:42	DJR,NIC3
110	I2433097-05 WG1935873	2.500	2.500	2.500	0.2506	-0.0078	-0.003	-	06/19/2024 21:46	DJR,NIC3
111	I2433097-06 WG1935873	2.500	2.500	2.500	0.2870	0.0303	0.012	-	06/19/2024 21:49	DJR,NIC3
112	I2433387-01 WG1935873	2.500	2.500	2.500	0.2663	0.0087	0.003	-	06/19/2024 21:52	DJR,NIC3
113	I2433387-02 WG1935873	2.500	2.500	2.500	0.2589	0.0009	0.000	-	06/19/2024 21:56	DJR,NIC3
114	I2433387-03 WG1935873	2.500	2.500	2.500	0.2674	0.0098	0.004	-	06/19/2024 21:59	DJR,NIC3
115	Check STD(5ug/L)	2.500	2.500	2.500	11.8751	12.1635	4.865	97.3	06/19/2024 22:02	DJR,NIC3
116	Check Blank	2.500	2.500	2.500	0.2395	-0.0194	-0.008	-	06/19/2024 22:06	DJR,NIC3
117	XWG1935813-1 WG1935813	2.500	2.500	2.500	0.3026	0.0467	0.019	-	06/19/2024 22:15	DJR,NIC3
118	XWG1935813-2 WG1935813	2.500	2.500	2.500	0.2843	0.0275	0.011	-	06/19/2024 22:18	DJR,NIC3
119	XWG1935813-3 WG1935813	2.500	2.500	2.500	0.3007	0.0447	0.018	-	06/19/2024 22:21	DJR,NIC3
120	XI2433022-01 WG1935813	2.500	2.500	2.500	6.4133	6.4448	2.578	-	06/19/2024 22:24	DJR,NIC3
121	XI2433022-02 WG1935813	2.500	2.500	2.500	0.4454	0.1962	0.078	-	06/19/2024 22:28	DJR,NIC3
122	XI2433022-03 WG1935813	2.500	2.500	2.500	0.9039	0.6763	0.271	-	06/19/2024 22:31	DJR,NIC3
123	XI2433022-04 WG1935813	2.500	2.500	2.500	0.3113	0.0558	0.022	-	06/19/2024 22:34	DJR,NIC3
124	XWG1935813-2 WG1935813	2.500	2.500	2.500	0.2852	0.0285	0.011	-	06/19/2024 22:41	DJR,NIC3
125	XWG1935813-3 WG1935813	2.500	2.500	2.500	0.3019	0.0459	0.018	-	06/19/2024 22:44	DJR,NIC3
126	Check STD(5ug/L)	2.500	2.500	2.500	11.6640	11.9424	4.777	95.5	06/19/2024 23:54	DJR,NIC3
127	Check Blank	2.500	2.500	2.500	0.2341	-0.0251	-0.010	-	06/19/2024 23:57	DJR,NIC3
128	WG1935829-1 WG1935829	2.500	2.500	2.500	0.2446	-0.0141	-0.006	-	06/20/2024 00:07	DJR,NIC3
129	WG1935829-2 WG1935829	2.500	2.500	2.500	2.6681	2.5234	1.009	-	06/20/2024 00:10	DJR,NIC3
130	I2433051-01 WG1935829	2.500	2.500	2.500	0.2639	0.0062	0.002	-	06/20/2024 00:13	DJR,NIC3
131	WG1935829-3 WG1935829	2.500	2.500	2.500	12.2016	12.5053	5.002	-	06/20/2024 00:17	DJR,NIC3
132	WG1935829-4 WG1935829	2.500	2.500	2.500	0.2946	0.0383	0.015	-	06/20/2024 00:20	DJR,NIC3
133	WG1935834-1 WG1935834	2.500	2.500	2.500	0.2750	0.0178	0.007	-	06/20/2024 00:23	DJR,NIC3
134	WG1935834-2 WG1935834	2.500	2.500	2.500	2.8244	2.6871	1.075	-	06/20/2024 00:27	DJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	I2433063-01 WG1935834	2.500	2.500	2.500	0.2651	0.0074	0.003	-	06/20/2024 00:30	DJR,NIC3
136	WG1935834-3 WG1935834	2.500	2.500	2.500	11.9939	12.2878	4.915	-	06/20/2024 00:33	DJR,NIC3
137	WG1935834-4 WG1935834	2.500	2.500	2.500	0.2678	0.0102	0.004	-	06/20/2024 00:36	DJR,NIC3
138	Check STD(5ug/L)	2.500	2.500	2.500	11.8426	12.1294	4.852	97.0	06/20/2024 00:40	DJR,NIC3
139	Check Blank	2.500	2.500	2.500	0.2418	-0.0170	-0.007	-	06/20/2024 00:43	DJR,NIC3
140	Check STD(5ug/L)	2.500	2.500	2.500	11.7234	12.0046	4.802	96.0	06/20/2024 00:46	DJR,NIC3
141	Check Blank	2.500	2.500	2.500	0.2392	-0.0197	-0.008	-	06/20/2024 00:50	DJR,NIC3

Title :
Date : 6/20/2024
Name :

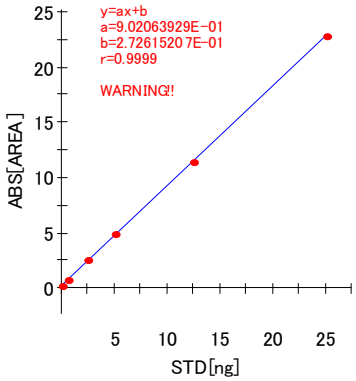
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.2175	-0.0611	-	06/20/2024 09:20	JWN,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.7124	0.4875	2.5	06/20/2024 09:23	JWN,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.5664	2.5428	1.7	06/20/2024 09:26	JWN,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.9296	5.1626	3.3	06/20/2024 09:30	JWN,NIC1
5	5.000	2.500	2.500	2.500	12.500	11.3765	12.3094	1.5	06/20/2024 09:33	JWN,NIC1
6	10.000	2.500	2.500	2.500	25.000	22.8772	25.0587	0.2	06/20/2024 09:36	JWN,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	xICV	2.500	2.500	2.500	7.4662	7.9746	3.190	-	06/20/2024 09:42	JWN,NIC1
2	xICB	2.500	2.500	2.500	0.2208	-0.0574	-0.023	-	06/20/2024 09:45	JWN,NIC1
3	ICV	2.500	2.500	2.500	7.2005	7.6800	3.072	-	06/20/2024 09:49	JWN,NIC1
4	ICB	2.500	2.500	2.500	0.2182	-0.0603	-0.024	-	06/20/2024 09:53	JWN,NIC1
5	0.2 PPB	2.500	2.500	2.500	0.6986	0.4722	0.189	-	06/20/2024 10:04	JWN,NIC1
6	L2433375-05 wg1935899	2.500	2.500	2.500	0.2712	-0.0016	-0.001	-	06/20/2024 10:17	JWN,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1935899-5 wg1935899	2.500	2.500	2.500	12.4022	13.4465	5.379	-	06/20/2024 10:20	JWN,NIC1
8	wg1935899-6 wg1935899	2.500	2.500	2.500	0.2648	-0.0087	-0.003	-	06/20/2024 10:23	JWN,NIC1
9	L2433375-01 wg1935899	2.500	2.500	2.500	0.2555	-0.0190	-0.008	-	06/20/2024 10:26	JWN,NIC1
10	L2433375-02 wg1935899	2.500	2.500	2.500	0.2675	-0.0057	-0.002	-	06/20/2024 10:30	JWN,NIC1
11	L2433375-03 wg1935899	2.500	2.500	2.500	0.2602	-0.0138	-0.006	-	06/20/2024 10:33	JWN,NIC1
12	L2433375-06 wg1935899	2.500	2.500	2.500	0.2571	-0.0172	-0.007	-	06/20/2024 10:36	JWN,NIC1
13	L2433375-07 wg1935899	2.500	2.500	2.500	0.2555	-0.0190	-0.008	-	06/20/2024 10:40	JWN,NIC1
14	L2433375-08 wg1935899	2.500	2.500	2.500	0.2563	-0.0181	-0.007	-	06/20/2024 10:43	JWN,NIC1
15	Check STD(5ug/L)	2.500	2.500	2.500	12.5861	13.6503	5.460	109.2	06/20/2024 10:46	JWN,NIC1
16	Check Blank	2.500	2.500	2.500	0.3215	0.0542	0.022	-	06/20/2024 10:50	JWN,NIC1
17	L2433492-01 wg1935899	2.500	2.500	2.500	0.2630	-0.0107	-0.004	-	06/20/2024 10:53	JWN,NIC1
18	L2433501-07 wg1935899	2.500	2.500	2.500	0.2525	-0.0223	-0.009	-	06/20/2024 10:59	JWN,NIC1
19	L2433529-01 wg1935899	2.500	2.500	2.500	0.3152	0.0472	0.019	-	06/20/2024 11:03	JWN,NIC1
20	wg1935944-1 wg1935944	2.500	2.500	2.500	0.2528	-0.0220	-0.009	-	06/20/2024 11:06	JWN,NIC1
21	wg1935944-2 wg1935944	2.500	2.500	2.500	2.6371	2.6212	1.048	-	06/20/2024 11:09	JWN,NIC1
22	L2433375-04 wg1935944	2.500	2.500	2.500	0.2476	-0.0277	-0.011	-	06/20/2024 11:13	JWN,NIC1
23	wg1935944-3 wg1935944	2.500	2.500	2.500	12.1059	13.1180	5.247	-	06/20/2024 11:16	JWN,NIC1
24	wg1935944-4 wg1935944	2.500	2.500	2.500	11.8904	12.8791	5.152	-	06/20/2024 11:19	JWN,NIC1
25	L2433375-01 wg1935944	2.500	2.500	2.500	0.2634	-0.0102	-0.004	-	06/20/2024 11:22	JWN,NIC1
26	L2433375-02 wg1935944	2.500	2.500	2.500	0.2328	-0.0441	-0.018	-	06/20/2024 11:26	JWN,NIC1
27	Check STD(5ug/L)	2.500	2.500	2.500	12.5141	13.5705	5.428	108.6	06/20/2024 11:29	JWN,NIC1
28	Check Blank	2.500	2.500	2.500	0.3160	0.0481	0.019	-	06/20/2024 11:32	JWN,NIC1
29	L2433375-03 wg1935944	2.500	2.500	2.500	0.2274	-0.0501	-0.020	-	06/20/2024 11:36	JWN,NIC1
30	L2433375-05 wg1935944	2.500	2.500	2.500	0.2474	-0.0280	-0.011	-	06/20/2024 11:39	JWN,NIC1
31	L2433375-06 wg1935944	2.500	2.500	2.500	0.2363	-0.0403	-0.016	-	06/20/2024 11:42	JWN,NIC1
32	L2433375-07 wg1935944	2.500	2.500	2.500	0.2469	-0.0285	-0.011	-	06/20/2024 11:46	JWN,NIC1
33	L2433375-08 wg1935944	2.500	2.500	2.500	0.2428	-0.0331	-0.013	-	06/20/2024 11:49	JWN,NIC1
34	WG1935821-1 WG1935821	2.500	2.500	2.500	0.2723	-0.0003	-0.000	-	06/20/2024 12:36	JWN,NIC1
35	WG1935821-2 WG1935821	2.500	2.500	2.500	2.5735	2.5507	1.020	-	06/20/2024 12:39	JWN,NIC1
36	I2433420-02 WG1935821	2.500	2.500	2.500	0.2499	-0.0252	-0.010	-	06/20/2024 12:42	JWN,NIC1
37	WG1935821-3 WG1935821	2.500	2.500	2.500	12.0618	13.0691	5.228	-	06/20/2024 12:45	JWN,NIC1
38	WG1935821-4 WG1935821	2.500	2.500	2.500	0.2387	-0.0376	-0.015	-	06/20/2024 12:49	JWN,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check STD(5ug/L)	2.500	2.500	2.500	12.3851	13.4275	5.371	107.4	06/20/2024 12:52	JWN,NIC1
40	Check Blank	2.500	2.500	2.500	0.3204	0.0530	0.021	-	06/20/2024 12:55	JWN,NIC1
41	I2433154-15 WG1935821	2.500	2.500	2.500	1.3794	1.2269	0.491	-	06/20/2024 12:59	JWN,NIC1
42	I2433420-01 WG1935821	2.500	2.500	2.500	0.3389	0.0735	0.029	-	06/20/2024 13:02	JWN,NIC1

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

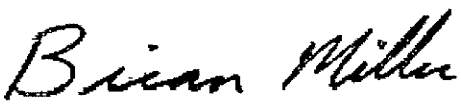
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2PPB
4	10	WG1935899-1 WG1935899
5	11	WG1935899-2 WG1935899
6	12	l2433375-04 WG1935899
7	13	WG1935899-3 WG1935899
8	14	WG1935899-4 WG1935899
9	15	l2434003-02 WG1935899
10	16	l2432838-01 WG1935899
11	17	l2432903-03 WG1935899
12	18	l2432981-01 WG1935899
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	l2432983-01 WG1935899
16	22	wg1936281-1 wg1936281
17	23	wg1936281-2 wg1936281
18	24	l2434343-01 wg1936281
19	25	wg1936281-3 wg1936281
20	26	wg1936281-4 wg1936281
21	27	l2432996-05 WG1934995
22	28	l2432996-06 WG1934995
23	29	l2433107-01 WG1934995
24	30	l2433107-02 WG1934995
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	l2433107-03 WG1934995
28	34	l2433107-04 WG1934995
29	35	l2433160-01 WG1934995
30	36	wg1936353-1 wg1936353
31	37	wg1936353-2 wg1936353
32	38	l2434070-01 wg1936353
33	39	wg1936353-3 wg1936353
34	40	wg1936353-4 wg1936353
35	41	l2434070-02 wg1936353
36	42	WG1935284-1 WG1935284
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	WG1935284-2 WG1935284
40	46	l2432606-01 WG1935284
41	47	WG1935284-3 WG1935284
42	48	WG1935284-4 WG1935284
43	49	l2432886-02 WG1935284
44	50	l2432957-01 WG1935284
45	51	l2433042-01 WG1935284
46	52	l2433053-01 WG1935284
47	53	l2433055-01 WG1935284
48	54	l2433056-01 WG1935284
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	l2433066-01 WG1935284
52	58	Check STD(5ug/L)
53	59	Check Blank
54	60	Check STD(5ug/L)
55	61	Check Blank
56	62	wg1935458-1 wg1935458
57	63	wg1935458-2 wg1935458
58	64	L2433153-04 wg1935458
59	65	wg1935458-3 wg1935458
60	66	wg1935458-4 wg1935458
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	L2433153-01 wg1935458
64	70	L2433153-02 wg1935458
65	71	L2433153-03 wg1935458
66	72	L2433153-05 wg1935458
67	73	L2433153-06 wg1935458
68	74	L2433153-07 wg1935458
69	75	L2433153-08 wg1935458
70	76	L2433154-01 wg1935458
71	77	L2433154-03 wg1935458
72	78	L2433154-04 wg1935458
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	L2433154-05 wg1935458
76	2	L2433154-06 wg1935458
77	3	L2433154-08 wg1935458
78	4	xL2433154-09 wg1935458
79	5	L2433154-10 wg1935458
80	6	L2433154-11 wg1935458
81	7	L2433154-12 wg1935458

82	8	L2433154-13 wg1935458
83	9	L2433154-14 wg1935458
84	10	L2433154-09d5 wg1935458
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	Check STD(5ug/L)
88	14	Check Blank
89	15	XWG1932702-1 WG1932702
90	16	XWG1932702-2 WG1932702
91	17	XWG1932702-3 WG1932702
92	18	XWG1932702-4 WG1932702
93	19	XWG1932702-5 WG1932702
94	20	XWG1932702-4 WG1932702
95	23	Check STD(5ug/L)
96	24	Check Blank
97	25	WG1935873-1 WG1935873
98	26	WG1935873-2 WG1935873
99	27	l2432990-01 WG1935873
100	28	WG1935873-3 WG1935873
101	29	WG1935873-4 WG1935873
102	30	l2432990-02 WG1935873
103	31	l2432990-03 WG1935873
104	32	l2432990-04 WG1935873
105	33	l2433097-02 WG1935873
106	34	l2433097-03 WG1935873
107	35	Check STD(5ug/L)
108	36	Check Blank
109	37	l2433097-04 WG1935873
110	38	l2433097-05 WG1935873
111	39	l2433097-06 WG1935873
112	40	l2433387-01 WG1935873
113	41	l2433387-02 WG1935873
114	42	l2433387-03 WG1935873
115	47	Check STD(5ug/L)
116	48	Check Blank
117	49	XWG1935813-1 WG1935813
118	50	XWG1935813-2 WG1935813
119	51	XWG1935813-3 WG1935813
120	52	Xl2433022-01 WG1935813
121	53	Xl2433022-02 WG1935813
122	54	Xl2433022-03 WG1935813
123	55	Xl2433022-04 WG1935813
124	56	XWG1935813-2 WG1935813
125	57	XWG1935813-3 WG1935813

126	59	Check STD(5ug/L)
127	60	Check Blank
128	61	WG1935829-1 WG1935829
129	62	WG1935829-2 WG1935829
130	63	l2433051-01 WG1935829
131	64	WG1935829-3 WG1935829
132	65	WG1935829-4 WG1935829
133	66	WG1935834-1 WG1935834
134	67	WG1935834-2 WG1935834
135	68	l2433063-01 WG1935834
136	69	WG1935834-3 WG1935834
137	70	WG1935834-4 WG1935834
138	71	Check STD(5ug/L)
139	72	Check Blank
140	73	Check STD(5ug/L)
141	74	Check Blank

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	xICV
2	8	xICB
3	7	ICV
4	8	ICB
5	9	0.2 PPB
6	10	L2433375-05 wg1935899
7	11	wg1935899-5 wg1935899
8	12	wg1935899-6 wg1935899
9	13	L2433375-01 wg1935899
10	14	L2433375-02 wg1935899
11	15	L2433375-03 wg1935899
12	16	L2433375-06 wg1935899
13	17	L2433375-07 wg1935899
14	18	L2433375-08 wg1935899
15	19	Check STD(5ug/L)
16	20	Check Blank
17	21	L2433492-01 wg1935899
18	22	L2433501-07 wg1935899
19	23	L2433529-01 wg1935899
20	24	wg1935944-1 wg1935944
21	25	wg1935944-2 wg1935944
22	26	L2433375-04 wg1935944
23	27	wg1935944-3 wg1935944
24	28	wg1935944-4 wg1935944
25	29	L2433375-01 wg1935944
26	30	L2433375-02 wg1935944
27	31	Check STD(5ug/L)
28	32	Check Blank
29	33	L2433375-03 wg1935944
30	34	L2433375-05 wg1935944
31	35	L2433375-06 wg1935944
32	36	L2433375-07 wg1935944
33	37	L2433375-08 wg1935944
34	38	WG1935821-1 WG1935821
35	39	WG1935821-2 WG1935821
36	40	l2433420-02 WG1935821
37	41	WG1935821-3 WG1935821

38	42	WG1935821-4 WG1935821
39	43	Check STD(5ug/L)
40	44	Check Blank
41	45	l2433154-15 WG1935821
42	46	l2433420-01 WG1935821

METALS ELN REPORT

Workgroup: WG1935899

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24241219 51HCRV1	METSPIKE	HG24241219320, 344 51HCRV1	

Additional Reagent/Std	K2O8S2	PS2424121723MGM
	KMnO4	PP2425180820ADG
	NaCl-NH2OH.HCl	HH2424142055DJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2432838-01 WATER	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2432903-03 WATER	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2432981-01 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2432983-01 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-01 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-02 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-03 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-04 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-05 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-06 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-07 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433375-08 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	

Reported: 20-JUN-24 01:40 PM

METALS ELN REPORT

Workgroup: WG1935899

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2433492-01 WATER	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433501-07 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2433529-01 WATER	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
L2434003-02 SAMP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	
WG1935899-1 BLANK	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	ELN: clh
WG1935899-2 LCS	06/18/24 17:40	Maisie Mcqueen	25	0.25	06/18/24 17:40	5	95.0	06/18/24 19:40	25	
WG1935899-3 MS	06/18/24 17:40	Maisie Mcqueen	25	1.25	06/18/24 17:40	5	95.0	06/18/24 19:40	25	
WG1935899-4 MSD	06/18/24 17:40	Maisie Mcqueen	25	1.25	06/18/24 17:40	5	95.0	06/18/24 19:40	25	
WG1935899-5 MS	06/18/24 17:40	Maisie Mcqueen	25	1.25	06/18/24 17:40	5	95.0	06/18/24 19:40	25	
WG1935899-6 DUP	06/18/24 17:40	Maisie Mcqueen	25		06/18/24 17:40	5	95.0	06/18/24 19:40	25	

Reported: 20-JUN-24 01:40 PM

METALS ELN REPORT

Workgroup: WG1935899

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 20-JUN-24 01:40 PM

METALS ELN REPORT

Workgroup: WG1935944

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24241219 51HCRV1	METSPIKE	HG24241219320, 344 51HCRV1	

Additional Reagent/Std	K2O8S2	PS2424121723MGM
	KMnO4	PP2425180820ADG
	NaCl-NH2OH.HCl	HH2424142055DJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2433375-01 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	m containers
L2433375-02 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	
L2433375-03 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	
L2433375-04 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	
L2433375-05 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	
L2433375-06 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	
L2433375-07 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	
L2433375-08 SAMP	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	0	95.0	06/18/24 18:27	25	
WG1935944-1 BLANK	06/18/24 16:27	Cristy Estevez	NA	25		06/18/24 16:27	5	95.0	06/18/24 18:27	25	ELN mgm
WG1935944-2 LCS	06/18/24 16:27	Cristy Estevez	NA	25	0.25	06/18/24 16:27	5	95.0	06/18/24 18:27	25	
WG1935944-3 MS	06/18/24 16:27	Cristy Estevez	NA	25	1.25	06/18/24 16:27	5	95.0	06/18/24 18:27	25	

METALS ELN REPORT

Workgroup: WG1935944

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1935944-4 MSD	06/18/24 16:27	Cristy Estevez	NA	25	1.25	06/18/24 16:27	5	95.0	06/18/24 18:27	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 20-JUN-24 01:40 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:17
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1937228.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1937228.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.77	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1937228.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.77	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1937228.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	7.0	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1937228.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.9	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1937228.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	5.4	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-07	**Date Collected**	:	06/13/24 11:45
Client ID	:	MW-4S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/20/24 16:17
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG1937228.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.56	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1937228.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.3	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 6/20/2024 16:17
Technician: JRO
Work group: WG1937228
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2433375-01	0	0	1.0	0
SAMP	L2433375-02	0	0.77	1.0	0.77
SAMP	L2433375-03	0	0.77	1.0	0.77
SAMP	L2433375-04	0	7	1.0	7
SAMP	L2433375-05	0	2.9	1.0	2.9
SAMP	L2433375-06	0	5.4	1.0	5.4
SAMP	L2433375-07	0	0.56	1.0	0.56
SAMP	L2433375-08	0	2.3	1.0	2.3
	L2433492-01	0.171	0.073	1.0	0
SAMP	L2433511-04	0.0998	0.83	1.0	0.83

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:42
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936436-1	**Date Collected**	: NA
Client ID	: WG1936436-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 12:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936436-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/20/24 11:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240620-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Sample Raw Data

Original Run Filename: OM_6-20-2024_09-29-25AM.OMN Created: 6/20/2024 9:29:25 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-20-2024_09-29-25AM.OMN Last Modified: 6/20/2024 10:05:42 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	STD 1	1	S1	10.00000				
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38521				96%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	3.96424				99%
		Known Conc:		100.00000				
	CCB	1	S10	-0.00560				
		Known Conc:		100.00000				
	HI ICV 8.0	1	1	8.27092				103%
	LO ICV 1.0	1	2	1.02765				103%
	ICB	1	3	0.00289				
	WG1936597-1	1	4	0.00913		1.50		
	WG1936597-2	1	5	18.99355		7.50		95%
	LCS LO	1	6	2.01631		1.50		101%
	L2432890-01	1	7	1.51099		1.50		
	L2432890-02	1	8	0.76472		1.50		
	WG1936597-4	1	9	4.21141		1.50		105%
X	WG1936597-3	1	10	0.16876		1.50		RERUN
	CCV 0.4000	1	S6	0.40025				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.99976				
		Known Conc:		100.00000				
	CCB	1	S10	0.01646				
		Known Conc:		100.00000				
	L2433153-08	1	11	0.03083		1.50		
	L2433136-09	1	12	0.01571		1.50		
	WG1936597-3	1	10	0.00564		1.50		RPD=NC
	CCV 0.4000	1	S6	0.38146				95%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.95642				99%
		Known Conc:		100.00000				
	CCB	1	S10	0.01583				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

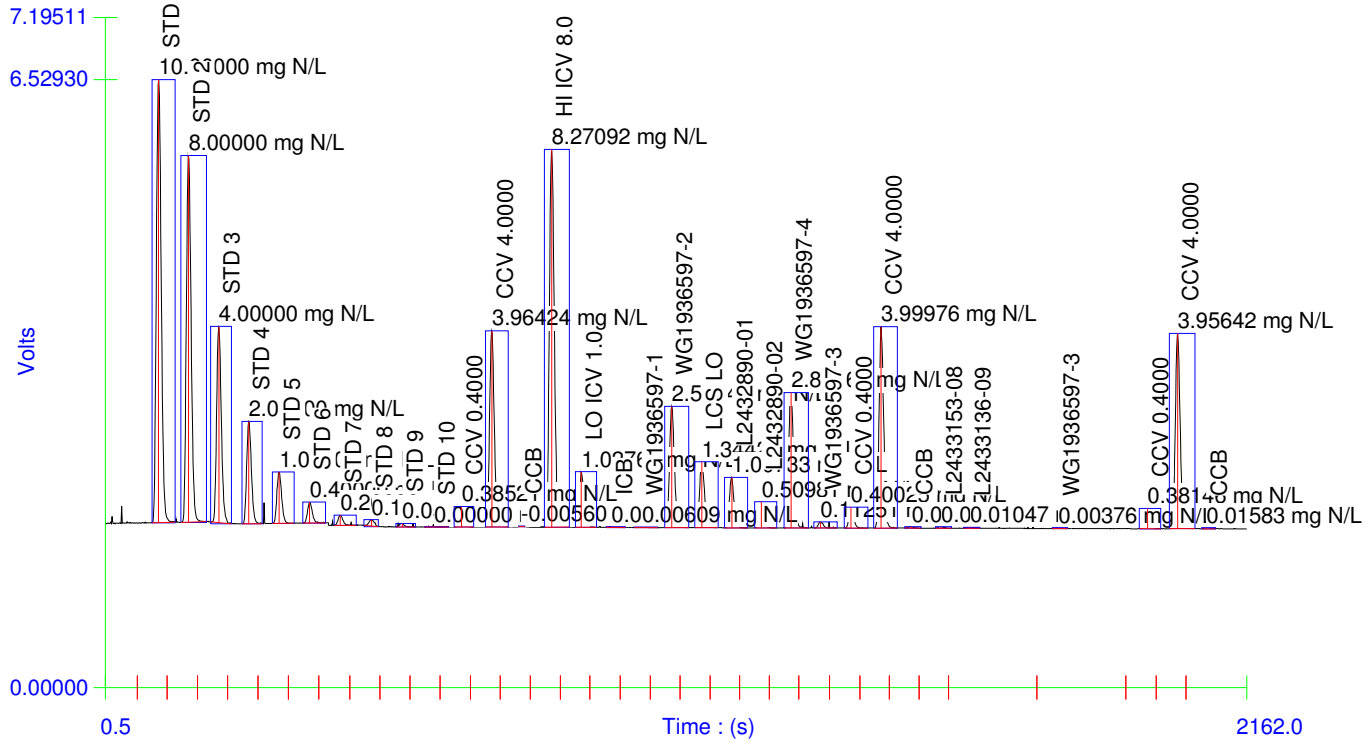
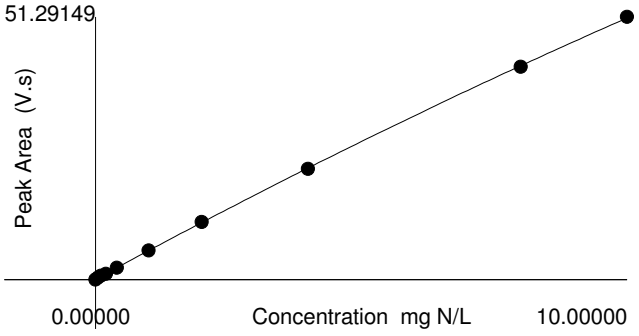


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	51.29149	4.75866	0.0	-0.4	10.03495	6/20/2024	9:30:37 AM
2	8.00000	1	41.57935	3.94019	0.0	0.5	7.97092	6/20/2024	9:31:33 AM
3	4.00000	1	21.65634	2.10771	0.0	0.7	3.97227	6/20/2024	9:32:30 AM
4	2.00000	1	11.23680	1.09857	0.0	-0.5	2.00706	6/20/2024	9:33:27 AM
5	1.00000	1	5.68149	0.55438	0.0	0.1	0.99468	6/20/2024	9:34:25 AM
6	0.40000	1	2.36080	0.22500	0.0	-0.8	0.40127	6/20/2024	9:35:23 AM
7	0.20000	1	1.17766	0.11044	0.0	3.4	0.19197	6/20/2024	9:36:21 AM
8	0.10000	1	0.74626	0.06797	0.0	-13.9	0.11593	6/20/2024	9:37:20 AM
9	0.05000	1	0.39934	0.03762	0.0	-7.2	0.05489	6/20/2024	9:38:17 AM
10	0.00000	1	0.02670	0.00167			-0.01057	6/20/2024	9:39:14 AM

Figure : 1 (Ammonia)



Area = - 0.05546 * Conc^2 + 5.65403 * Conc + 0.09006
Conc = 0.00040 * Area^2 + 0.17549 * Area - 0.01525
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_6-20-2024_10-20-28AM.OMN Created: 6/20/2024 10:20:28 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-20-2024_10-20-28AM.OMN Last Modified: 6/20/2024 10:47:02 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY B
CCV 0.4000	1	S6	0.37644				94%
		Known Conc:	100.00000				
		Calibration:	Table/Fig. : 1				
CCV 4.0000	1	S3	3.97645				99%
		Known Conc:	100.00000				
CCB	1	S10	0.01188				
		Known Conc:	100.00000				
WG1936593-1	1	1	0.00439		1.50		
WG1936593-2	1	2	19.14277		7.50		96%
LCS LO	1	3	2.09821		1.50		105%
L2432721-01	1	4	3.46252		7.50		
L2432728-01	1	5	0.07187		1.50		
L2432728-02	1	6	0.01258		1.50		
L2432728-03	1	7	0.16562		7.50		
L2432728-04	1	8	0.06125		1.50		
L2432729-01	1	9	0.10603		1.50		
WG1936593-3	1	10	0.12277		1.50		RPD=15%
CCV 0.4000	1	S6	0.38895				97%
		Known Conc:	100.00000				
CCV 4.0000	1	S3	4.02294				101%
		Known Conc:	100.00000				
CCB	1	S10	0.01694				
		Known Conc:	100.00000				
WG1936593-4	1	11	4.33394		1.50		
L2432729-02	1	12	0.66806		1.50		
L2432729-03	1	13	0.20872		1.50		
L2432729-04	1	14	0.02813		1.50		
L2432729-05	1	15	0.13834		1.50		
CCV 0.4000	1	S6	0.38988				97%
		Known Conc:	100.00000				
CCV 4.0000	1	S3	3.99395				100%
		Known Conc:	100.00000				
CCB	1	S10	0.01461				
		Known Conc:	100.00000				

Author: A1WETCHEMINSTRUMENT Date : 6/20/2024

Channel 2 (Ammonia High) - Current View

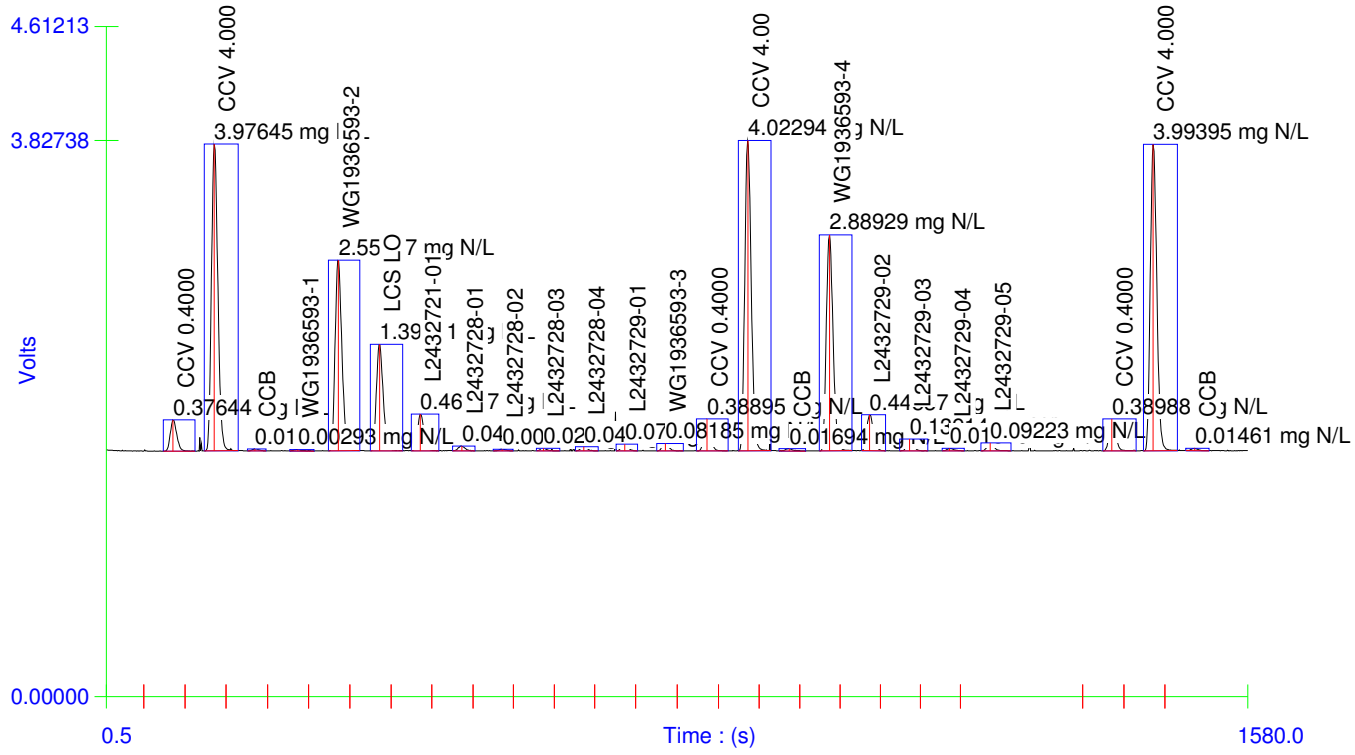
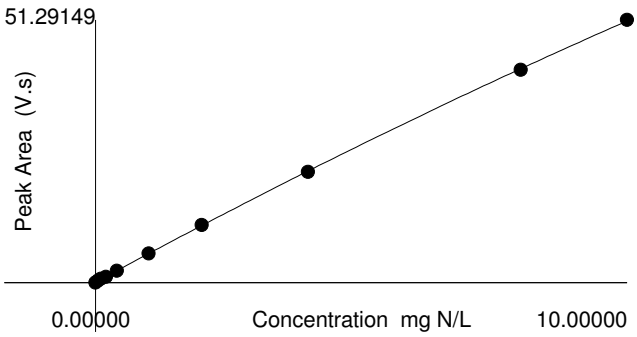


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	51.29149	4.75866	0.0	-0.4	10.03495	6/20/2024	9:30:37 AM
2	8.00000	1	41.57935	3.94019	0.0	0.5	7.97092	6/20/2024	9:31:33 AM
3	4.00000	1	21.65634	2.10771	0.0	0.7	3.97227	6/20/2024	9:32:30 AM
4	2.00000	1	11.23680	1.09857	0.0	-0.5	2.00706	6/20/2024	9:33:27 AM
5	1.00000	1	5.68149	0.55438	0.0	0.1	0.99468	6/20/2024	9:34:25 AM
6	0.40000	1	2.36080	0.22500	0.0	-0.8	0.40127	6/20/2024	9:35:23 AM
7	0.20000	1	1.17766	0.11044	0.0	3.4	0.19197	6/20/2024	9:36:21 AM
8	0.10000	1	0.74626	0.06797	0.0	-13.9	0.11593	6/20/2024	9:37:20 AM
9	0.05000	1	0.39934	0.03762	0.0	-7.2	0.05489	6/20/2024	9:38:17 AM
10	0.00000	1	0.02670	0.00167			-0.01057	6/20/2024	9:39:14 AM

Figure : 1 (Ammonia)



Area = - 0.05546 * Conc^2 + 5.65403 * Conc + 0.09006
Conc = 0.00040 * Area^2 + 0.17549 * Area - 0.01525
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_6-20-2024_10-54-38AM.OMN Created: 6/20/2024 10:54:38 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-20-2024_10-54-38AM.OMN Last Modified: 6/20/2024 11:35:24 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY C
	CCV 0.4000	1	S6	0.37970				95%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	3.98301				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.02058				
		Known Conc:		100.00000				
	WG1936592-1	1	1	0.01078		1.50		
	WG1936592-2	1	2	19.64698		7.50		98%
	LCS LO	1	3	1.97459		1.50		99%
	L2432518-02	1	4	0.18700		1.50		
	L2432525-01	1	5	0.04213		1.50		
	L2432525-02	1	6	0.01120		1.50		
	L2432530-01	1	7	24.03346		7.50		
	L2432530-02	1	8	8.88299		1.50		
	L2432541-01	1	9	0.28755		1.50		
	L2432541-02	1	10	0.13591		1.50		
	CCV 0.4000	1	S6	0.39857				100%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.03723				101%
		Known Conc:		100.00000				
	CCB	1	S10	0.02463				
		Known Conc:		100.00000				
	L2432541-03	1	11	0.08014		1.50		
	L2432545-01	1	12	11.60188		7.50		
	L2432545-02	1	13	0.16110		1.50		
X	L2432559-01	1	14	22.68432		1.50		
X	L2432559-02	1	15	0.69358		1.50		
	L2432664-01	1	16	0.13849		1.50		
	L2432664-02	1	17	0.17633		1.50		
	L2432664-03	1	18	0.04149		1.50		
	L2432664-04	1	19	0.04016		1.50		
	L2432664-05	1	20	0.08603		1.50		
	CCV 0.4000	1	S6	0.38307				96%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.01480				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.02987				
		Known Conc:		100.00000				
	L2432688-02	1	21	0.18271		1.50		
	WG1936592-4	1	22	4.60402		1.50		111%
	WG1936592-3	1	23	0.37421		1.50		RPD=69%
	L2432712-01	1	24	0.15203		1.50		
	L2432775-02	1	25	1.84723		7.50		
	L2432559-01; 10X	1	14	23.32976		15.00		
	L2432559-02	1	15	0.26399		1.50		
	CCV 0.4000	1	S6	0.39562				99%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.98457				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.02597				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

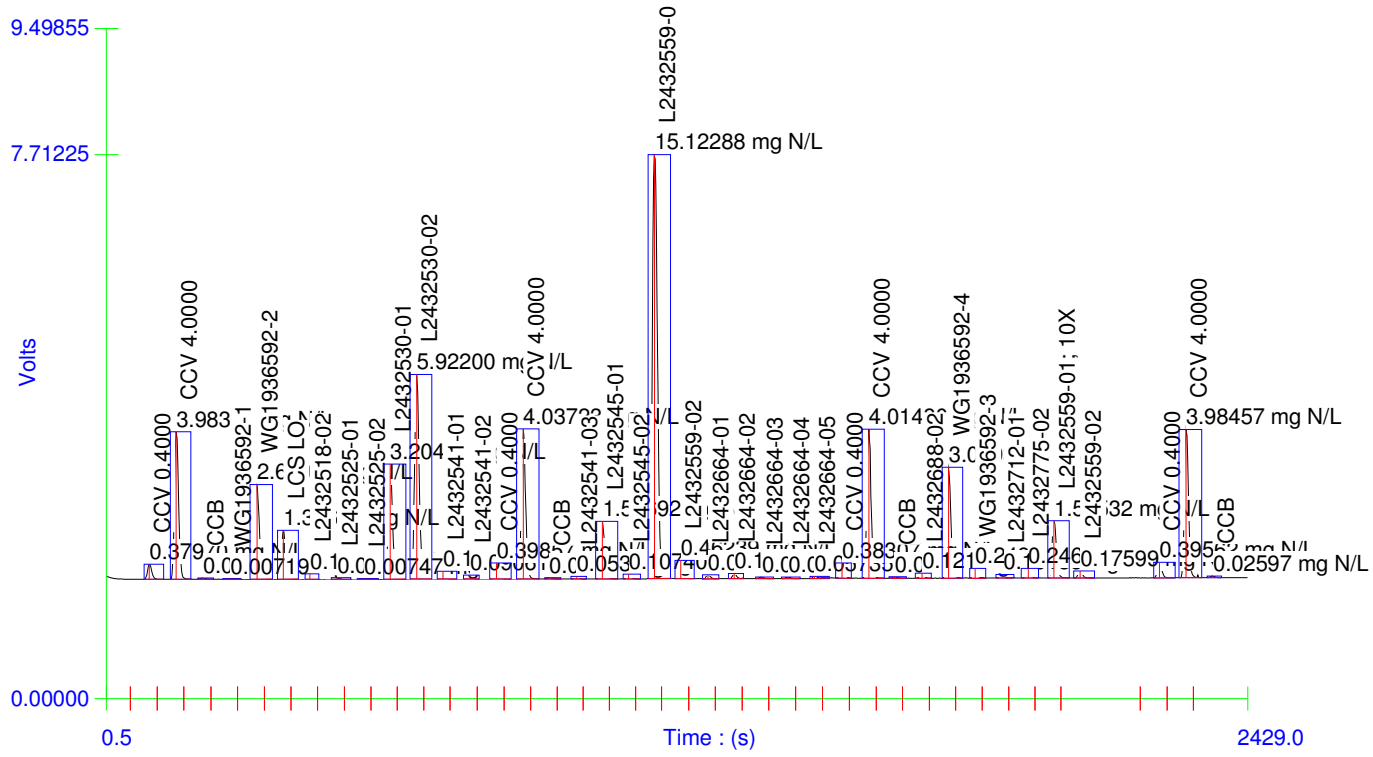
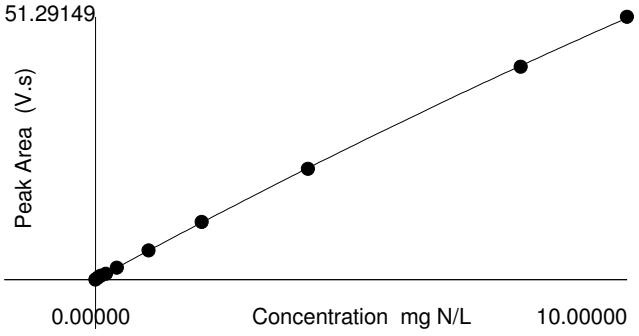


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	51.29149	4.75866	0.0	-0.4	10.03495	6/20/2024	9:30:37 AM
2	8.00000	1	41.57935	3.94019	0.0	0.5	7.97092	6/20/2024	9:31:33 AM
3	4.00000	1	21.65634	2.10771	0.0	0.7	3.97227	6/20/2024	9:32:30 AM
4	2.00000	1	11.23680	1.09857	0.0	-0.5	2.00706	6/20/2024	9:33:27 AM
5	1.00000	1	5.68149	0.55438	0.0	0.1	0.99468	6/20/2024	9:34:25 AM
6	0.40000	1	2.36080	0.22500	0.0	-0.8	0.40127	6/20/2024	9:35:23 AM
7	0.20000	1	1.17766	0.11044	0.0	3.4	0.19197	6/20/2024	9:36:21 AM
8	0.10000	1	0.74626	0.06797	0.0	-13.9	0.11593	6/20/2024	9:37:20 AM
9	0.05000	1	0.39934	0.03762	0.0	-7.2	0.05489	6/20/2024	9:38:17 AM
10	0.00000	1	0.02670	0.00167			-0.01057	6/20/2024	9:39:14 AM

Figure : 1 (Ammonia)



Area = - 0.05546 * Conc^2 + 5.65403 * Conc + 0.09006
Conc = 0.00040 * Area^2 + 0.17549 * Area - 0.01525
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 6/20/2024

Original Run Filename: OM_6-20-2024_11-36-09AM.OMN Created: 6/20/2024 11:36:09 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-20-2024_11-36-09AM.OMN Last Modified: 6/20/2024 12:11:15 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY D
	CCV 0.4000	1	S6	0.38702				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.97889				
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.02187				
		Known Conc:		100.00000				
X	WG1936436-1 T	1	1	0.11157				+BLANK, RERUN
WG1936453	WG1936436-2 T	1	2	37.53946		15.00		90%
	LCS LO T	1	3	4.09861		3.00		94%
	L2433375-01 T	1	5	0.29479		3.00		
	L2433375-02 T	1	6	0.22135		3.00		
	L2433375-03 T	1	7	0.15624		3.00		
	L2433375-04 T	1	8	0.04787		3.00		
	WG1936436-4 T	1	9	6.84154		3.00		81%
	WG1936436-3 T	1	10	0.31623		3.00		RPD=NC
	L2433375-05 T	1	11	0.02196		3.00		
	CCV 0.4000	1	S6	0.39517				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.05714				
		Known Conc:		100.00000				
	CCB	1	S10	0.02844				
		Known Conc:		100.00000				
	WG1936436-5 T	1	4	0.58741		3.00		86%
	L2433375-06 T	1	12	0.03162		3.00		
	L2433375-07 T	1	13	0.29742		3.00		
	L2433375-08 T	1	14	0.02171		3.00		
	L2433691-01 T	1	15	-0.00849		3.00		
	L2433691-02 T	1	16	0.05892		3.00		
	L2433691-03 T	1	17	0.68168		3.00		
	L2434308-01 T	1	18	0.34610		3.00		
	L2434308-02 T	1	19	0.41731		3.00		
	L2434413-01 T	1	20	0.23992		3.00		
	CCV 0.4000	1	S6	0.38706				97%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.95237				99%
		Known Conc:		100.00000				
	CCB	1	S10	0.02467				
		Known Conc:		100.00000				
	WG1936436-1 T	1	1	0.11020				CONFIRMS +BLANK
	CCV 0.4000	1	S6	0.38471				96%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.96410				99%
		Known Conc:		100.00000				
	CCB	1	S10	0.02055				
		Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT Date : 6/20/2024

Channel 2 (Ammonia High) - Current View

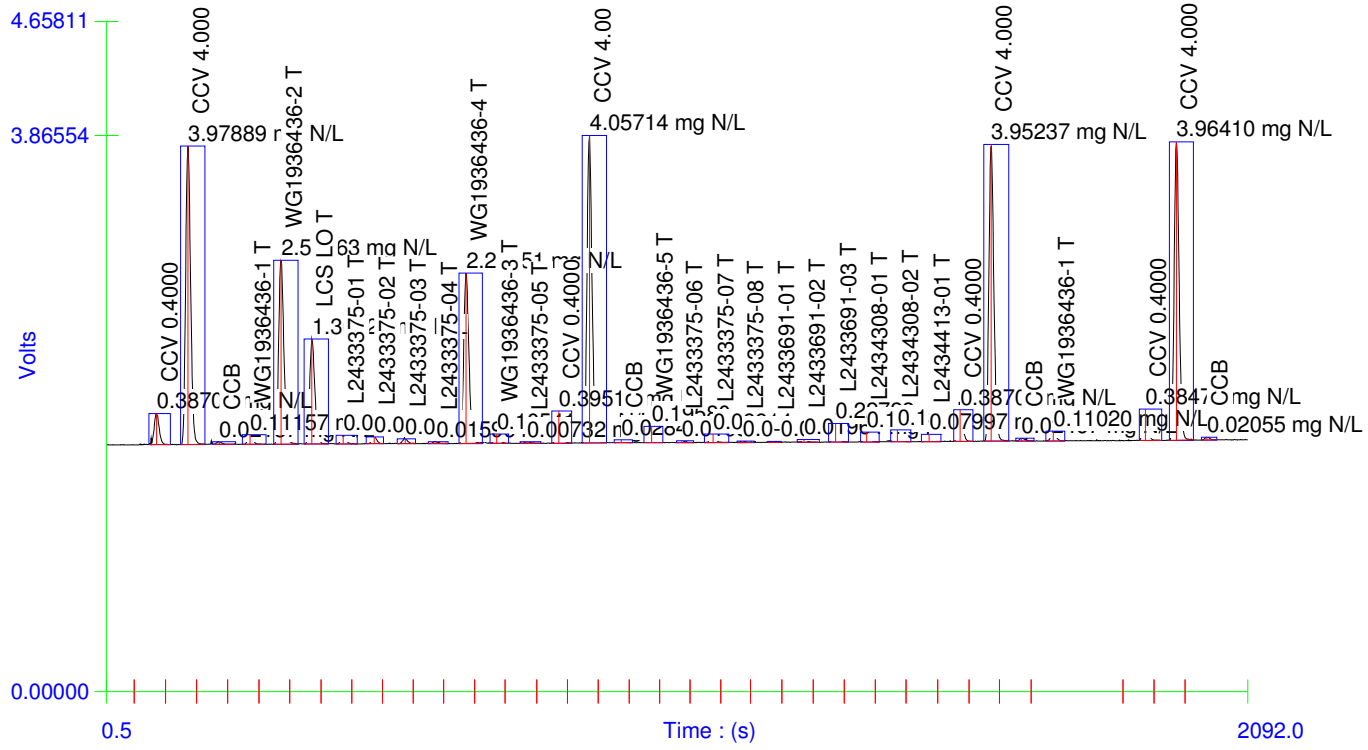
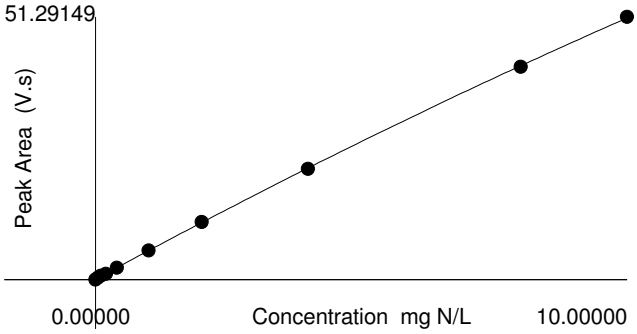


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	51.29149	4.75866	0.0	-0.4	10.03495	6/20/2024	9:30:37 AM
2	8.00000	1	41.57935	3.94019	0.0	0.5	7.97092	6/20/2024	9:31:33 AM
3	4.00000	1	21.65634	2.10771	0.0	0.7	3.97227	6/20/2024	9:32:30 AM
4	2.00000	1	11.23680	1.09857	0.0	-0.5	2.00706	6/20/2024	9:33:27 AM
5	1.00000	1	5.68149	0.55438	0.0	0.1	0.99468	6/20/2024	9:34:25 AM
6	0.40000	1	2.36080	0.22500	0.0	-0.8	0.40127	6/20/2024	9:35:23 AM
7	0.20000	1	1.17766	0.11044	0.0	3.4	0.19197	6/20/2024	9:36:21 AM
8	0.10000	1	0.74626	0.06797	0.0	-13.9	0.11593	6/20/2024	9:37:20 AM
9	0.05000	1	0.39934	0.03762	0.0	-7.2	0.05489	6/20/2024	9:38:17 AM
10	0.00000	1	0.02670	0.00167			-0.01057	6/20/2024	9:39:14 AM

Figure : 1 (Ammonia)



Area = - 0.05546 * Conc^2 + 5.65403 * Conc + 0.09006
Conc = 0.00040 * Area^2 + 0.17549 * Area - 0.01525
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1936436-4	**MS Analysis Date**	: 06/20/24 11:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	ND	8	6.51	81					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 11:45
Dup Sample ID	: WG1936436-3	**DUP Analysis Date**	: 06/20/24 11:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	ND	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936436-2	**LCS Analysis Date**	: 06/20/24 11:41
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**35.9**	**90.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

Tray A(09-29-25AM)
prep 6/19/24 @22:31

1	Hi ICV 8.0
2	Lo ICV 1.0
3	ICB
4	WG1936597-1; Blk
5	-2; LCS Hi; 5X
6	LCS Lo
7	32890-01
8	-02
9	33153-08 MS
10	-08 Dup; reruns
11	-08
12	33136-09
	KEP

Tray B(10-20-28AM)
prep 6/19/24 @22:26

1	WG1936593-1; Blk
2	-2; LCS Hi; 5X
3	LCS Lo
4	32721-01(5X)
5	32728-01
6	-02
7	-03(5X)
8	-04
9	32729-01
10	-01 Dup
11	-01 MS
12	-02
13	-03
14	-04
15	-05

Tray C(10-54-38AM)
prep 6/19/24 @22:20

1	WG1936592-1; Blk
2	-2; LCS Hi; 5X
3	LCS Lo
4	32518-02
5	32525-01
6	-02
7	32530-01(5X)
8	-02
9	32541-01
10	-02
11	-03
12	32545-01(5X)
13	-02
⊗14	32559-01; Dx ITIO
⊗15	-02
16	32664-01
17	-02
18	-03
19	-04
20	-05
21	32688-02
22	-02 MS
23	-02 Dup
24	32712-01
25	-02(5X)

Date: 6/20/24
Sodium Phenolate: 5/27/24 R-4005
Sodium Hypochlorate: 5/27/24 stopshop
Sodium Nitropruisside: 5/27/24 R-3969
Borric Acid Soln.: 5/27/24 ~~R-3969~~ R-4076
ICV 1.0:
ICV 8.0: 6/4/24 WL-3433
Cal. Std: 6/4/24 WL-3392
See Front Page for Instructions:

To Page No. ____

From Page No. ____

Tray D (11-36-09AM)
prep 6/19/24 @17:41

⊗ 1	WG19360436-1T; BLK; reman	
2	(6453)-2T; LCS Hi; 5X	
3	LCS Lo T	
4	-5T; LOQ	
5	33375-01T	
6	-02T	
7	-03T	
8	-04T	
9	-04T ~~Dup~~ MS	mod
10	-04T Dup	
11	-05T	
12	-06T	
13	-07T	
14	-08T	
15	33691-01T	
16	-02T	
17	-03T	
18	34308-01T	
19	-02T	
20	34413-01T	

To Page No.

Witnessed & Understood by me, Date Invented by: Date

Recorded by:

Sample Preparation

Sample	Dilution	Volume	Final Vol.
Blank	1x	50mL	150mL
LOQ1			
Low			
High			
L243375-01			
-02			
-03			
D: 23710-88 / -04 Pt.			
-04 Dup			
-04 MS			
-05			
-06			
-07			
-08			
33691-01			
-02			
-03			
34308-01			
-02			
34413-01			

Same Std's 06 19 24 @ 17:41 SAD

& Reagents

as previous

pg # 55

Nitrates checked

nessed & Understood by me, | Date | Invented by: | Date

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 05:38
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240619-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 05:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240619-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.77	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-03	**Date Collected**	:	06/13/24 08:50
Client ID	:	PZ-5	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 05:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240619-A1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.77	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-04	**Date Collected**	:	06/13/24 09:00
Client ID	:	MW-5D	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 05:42
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240619-A1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	7.0	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-05	**Date Collected**	:	06/13/24 10:35
Client ID	:	MW-12S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 05:47
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240619-A1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.9	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 05:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240619-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.4	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-07	**Date Collected**	:	06/13/24 11:45
Client ID	:	MW-4S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 05:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240619-A1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.56	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-08	**Date Collected**	:	06/13/24 11:40
Client ID	:	MW-4D2	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 05:51
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240619-A1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.3	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936176-1	**Date Collected**	: NA
Client ID	: WG1936176-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 03:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240619-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936176-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/19/24 05:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240619-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	7.0	0.10	0.05	

Sample Raw Data

Original Run Filename: OM_6-19-2024_02-17-40AM.OMN Created: 6/19/2024 2:17:40 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-19-2024_02-17-40AM.OMN Last Modified: 6/19/2024 5:58:05 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

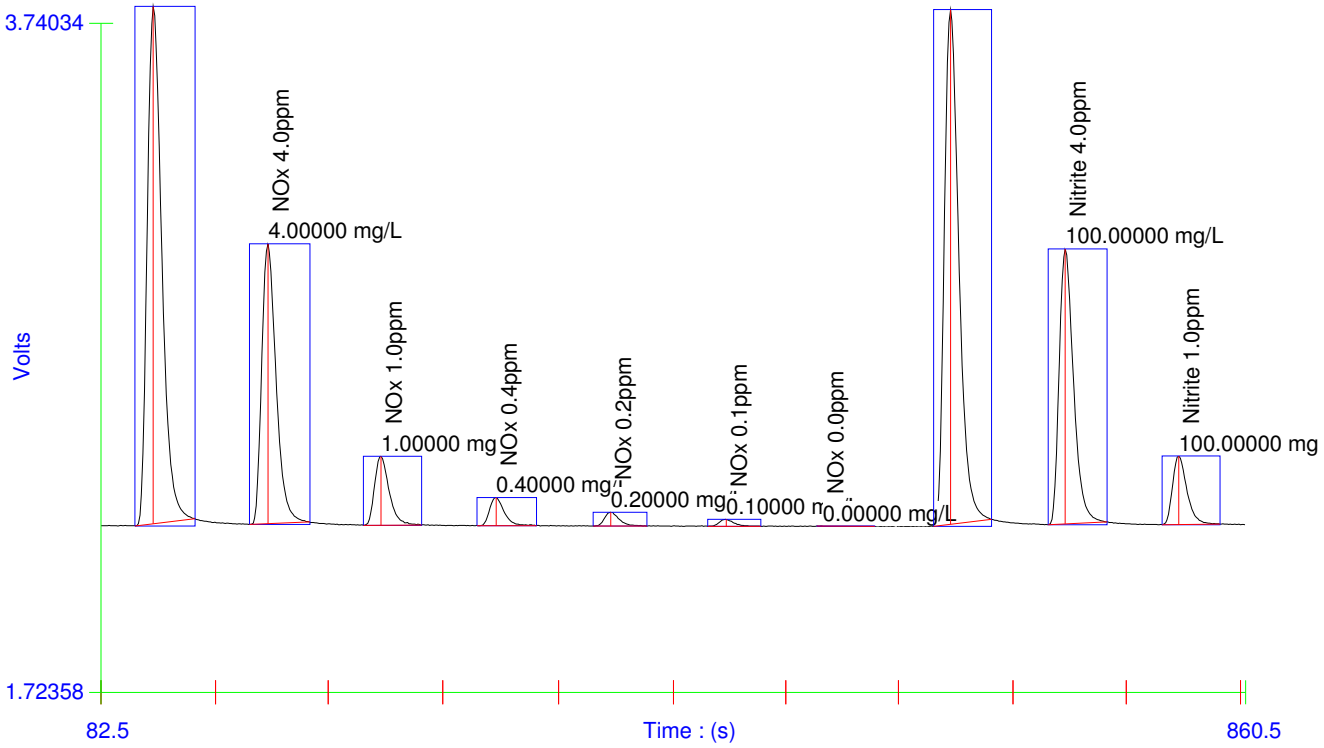
Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	1.01961	-0.01073			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.00265	1.05484			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01235	-0.01175			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	4.99447	-0.00882			
ICV NO2 5.0	1	2	5.02294	5.16709			
ICV NO3 0.5	1	3	0.49376	-0.00773			
ICV NO2 0.5	1	4	0.49546	0.52087			
ICB	1	5	-0.01414	-0.01021			
DILUTER CHK 8PPM	1	6	8.30895	-0.04086	5.00		
BLK NO3	1	7	-0.00873	-0.01120			
LCS NO3	1	8	5.00482	-0.02484			
BLK NO2	1	9	-0.01594	-0.00513			
LCS NO2	1	10	5.04520	5.18948			
CCV NO3	1	S2	1.02200	-0.00617			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.01147	1.06256			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00236	-0.00897			
	Known Conc:		0.00000	0.00000			
WG1936168-1; NO2	1	11	-0.01679	-0.01578			
WG1936168-2; NO2	1	12	5.05312	5.19924			
WG1936169-1; NO3	1	13	-0.02005	-0.01355			
WG1936169-2; NO3	1	14	5.03127	-0.00638			
WG1936170/171-1; NO3	1	15	-0.01015	-0.01407			
WG1936170/171-2; NO3	1	16	5.03180	-0.00484			
WG1936172-1; CNO3	1	17	-0.01972	-0.01124			
WG1936172-2; CNO3	1	18	5.03166	-0.00469			
WG1936173/176-1; CNO3	1	19	-0.01822	-0.00871			
WG1936173/176-2; CNO3	1	20	5.03029	-0.00372			
CCV NO3	1	S2	1.02068	-0.00733			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.01098	1.06827			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01206	-0.01360			
	Known Conc:		0.00000	0.00000			
L2434175-01B	1	21	0.57302	0.00715			
WG1936169-3; DUP NO3 175-01	1	22	0.56949	0.00914			
WG1936169-4; MS NO3 175-01	1	23	4.59001	0.00931			
WG1936168-3; DUP NO3 175-01	1	24	0.57081	0.00519			
WG1936168-4; MS NO2 175-01	1	25	4.59813	4.15121			
L2434273-01B	1	26	11.97517	0.25726			

WG1936169-5; DUP NO3 273-01	1	27	11.97153	0.25130			
WG1936169-6; MS NO3 273-01	1	28	16.70624	0.27678	5.00		
WG1936168-5; DUP NO2 273-01	1	29	11.99695	0.24996			
L2434273-01B	1	26	13.12675	0.24635	5.00		
CCV NO3	1	S2	1.03995	-0.00859			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.01566	1.06478			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01545	-0.01341			
	Known Conc:		0.00000	0.00000			
WG1936168-6; MS NO2 273-01	1	30	15.00426	4.49037			
WG1936169-5; DUP NO3 273-01	1	27	13.07320	0.21235	5.00		
L2434274-01C	1	31	0.14056	0.12878			
L2434364-01F	1	32	1.71007	0.63699			
L2434367-01B	1	33	9.69282	0.05013			
L2434367-02B	1	34	1.64554	0.55244			
L2434368-01B	1	35	0.06378	0.04887			
L2434369-01B	1	36	7.78950	0.48700			
L2434372-01B	1	37	0.01583	0.00610			
L2434367-01B	1	33	10.25687	0.01924	5.00		
CCV NO3	1	S2	1.04373	-0.00388			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.01931	1.06385			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00702	-0.00849			
	Known Conc:		0.00000	0.00000			
L2434367-02B	1	34	1.64301	0.55233			
L2434373-01A	1	38	0.15028	0.01315			
L2434374-01A	1	39	15.43775	0.05986			
L2434159-01C	1	40	0.66712	0.00263			
L2434159-02C	1	41	0.00348	-0.01572			
L2434159-03C	1	42	-0.00716	-0.00766			
L2434159-04C	1	43	-0.01219	-0.01106			
L2434089-01F	1	44	0.01317	0.00135			
L2434374-01A	1	39	17.62703	0.03309	5.00		
L2434159-01C	1	40	0.66614	0.00234			
CCV NO3	1	S2	1.04544	-0.00531			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02729	1.07014			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00934	-0.00881			
	Known Conc:		0.00000	0.00000			
L2434089-02F	1	45	0.01380	0.00377			
L2434089-03F	1	46	0.50974	0.17488			
L2434077-01D	1	47	0.03192	0.01468			
WG1936171-3; DUP NO3 077-01	1	48	0.01990	0.01173			
WG1936171-4; MS NO3 077-01	1	49	4.11938	0.03821			
L2434077-02D	1	50	0.68544	0.54204			
L2434077-03D	1	51	0.03389	0.00424			
L2434077-04D	1	52	0.05455	0.01844			
L2434430-07M	1	53	0.07026	0.02964			
WG1936170-3; DUP NO3 430-07	1	54	0.05447	0.01973			
CCV NO3	1	S2	1.04439	-0.00685			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02913	1.07522			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00931	-0.01116			
	Known Conc:		0.00000	0.00000			
WG1936170-4; MS NO3 430-07	1	55	4.11350	0.02627			
L2434430-08M	1	56	1.58514	0.00220			
L2434430-09M	1	57	0.05846	0.00447			
L2434430-10M	1	58	0.01596	0.00247			
L2434430-11M	1	59	0.69939	0.01462			
L2433407-01A	1	60	8.19302	0.01873			
L2433770-01A	1	61	0.18963	0.01435			
WG1936172-3; DUP CNO3 770-01	1	62	0.17352	-0.00095			
WG1936172-4; MS CNO3 770-01	1	63	4.13581	-0.01218			
L2433407-01A	1	60	8.52151	-0.01319	5.00		

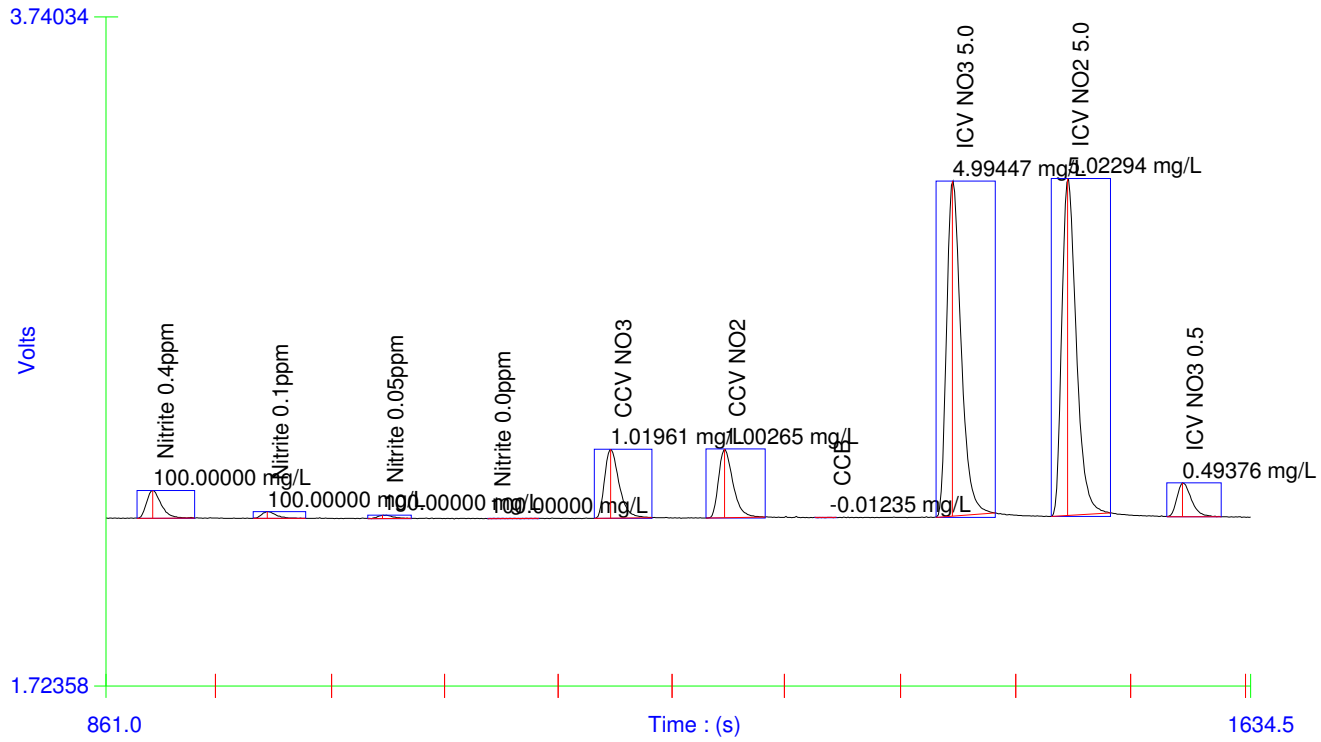
CCV NO3	1	S2	1.04091	-0.00891			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03595	1.07073			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01099	-0.00991			
	Known Conc:		0.00000	0.00000			
L2433770-01A	1	61	0.18700	0.01477			
L2433770-02A	1	64	0.02230	-0.00582			
WG1936172-5; DUP CNO3 770-01	1	65	-0.00325	-0.01426			
WG1936172-6; MS CNO3 770-01	1	66	4.00340	-0.00694			
L2433770-03A	1	67	0.03653	0.01080			
L2433770-04A	1	68	0.02158	0.00297			
L2433770-05A	1	69	0.27272	0.00689			
L2433770-06A	1	70	5.74814	0.01690			
L2433770-07A	1	71	0.47811	0.00570			
L2433770-08A	1	72	0.20177	0.01029			
CCV NO3	1	S2	1.03363	-0.01071			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03977	1.07625			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01103	-0.00669			
	Known Conc:		0.00000	0.00000			
L2433770-09A	1	73	0.66960	0.00475			
L2433770-10A	1	74	5.84614	0.06670			
L2433770-11A	1	75	0.14347	0.00155			
L2433770-12A	1	76	3.91164	0.01248			
L2433770-13A	1	77	0.02447	0.00538			
L2433770-14A	1	78	0.03596	0.01316			
L2433770-15A	1	79	4.04934	0.00401			
L2433770-16A	1	80	0.02141	0.00223			
L2433770-17A	1	81	0.17379	0.00590			
L2433770-18A	1	82	0.03648	0.01043			
CCV NO3	1	S2	1.04906	-0.01222			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04220	1.07603			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01151	-0.01191			
	Known Conc:		0.00000	0.00000			
L2433770-36A	1	83	0.29644	0.00445			
L2434185-01A	1	84	0.01625	0.00509			
L2434185-02A	1	85	0.02541	0.00737			
L2434185-03A	1	86	0.02409	0.00574			
L2434185-04A	1	87	0.02875	0.00816			
L2434185-05A	1	88	0.02778	0.00379			
L2433511-04G	1	89	0.82948	0.02622			
WG1936173-3; DUP CNO3 511-04	1	90	0.80365	0.00440			
WG1936173-4; MS CNO3 511-04	1	91	4.81594	0.00399			
L2433529-01E	1	92	0.40153	0.02308			
CCV NO3	1	S2	1.03915	-0.00995			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04499	1.07446			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00569	-0.00943			
	Known Conc:		0.00000	0.00000			
L2433375-01W	1	93	0.03938	0.01719			
L2433375-02W	1	94	0.77119	0.00914			
L2433375-03W	1	95	0.76904	0.01572			
L2433375-04W	1	96	6.95712	-0.00913			
WG1936176-3; DUP CNO3 375-04	1	97	6.95998	-0.00734			
WG1936176-4; MS CNO3 375-04	1	98	11.13719	0.00490	5.00		
L2433375-05W	1	99	2.89850	0.00552			
L2433375-06W	1	100	5.42543	0.01878			
L2433375-07W	1	101	0.55640	0.01056			
L2433375-08W	1	102	2.30486	0.00665			
CCV NO3	1	S2	1.03227	-0.00942			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03037	1.08023			
	Known Conc:		0.00000	1.00000			

CCB	1	S1	-0.00915	-0.01222			
		Known Conc:	0.00000	0.00000			

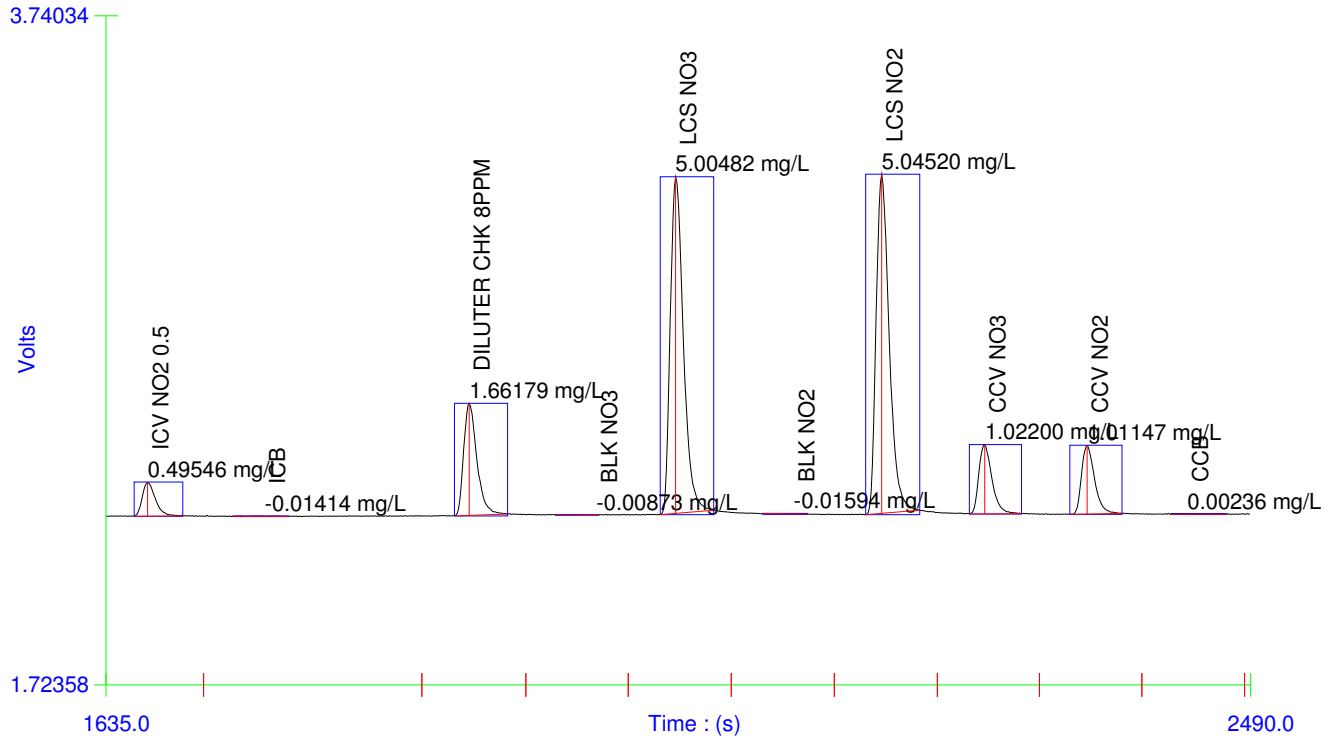
Channel 1 (NO3+NO2) - Set: 1 / 16



Channel 1 (NO3+NO2) - Set: 2 / 16



Channel 1 (NO3+NO2) - Set: 3 / 16



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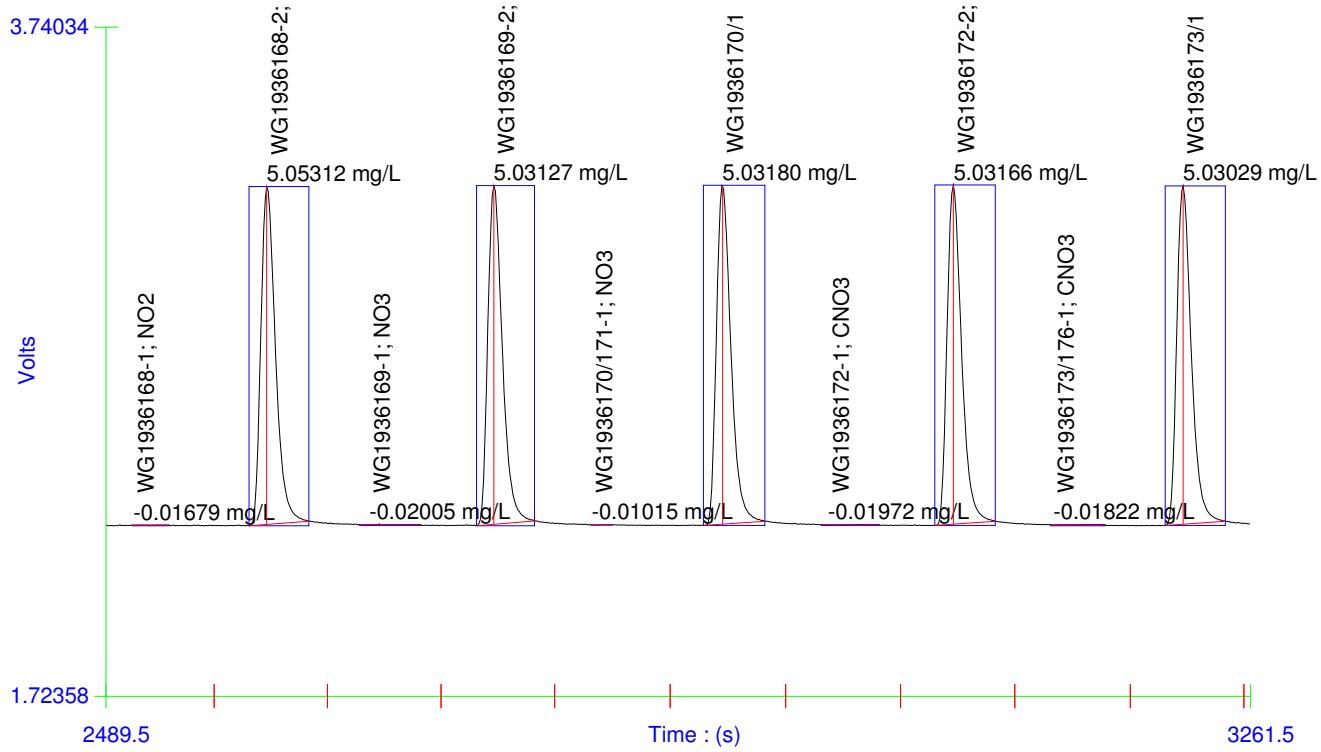

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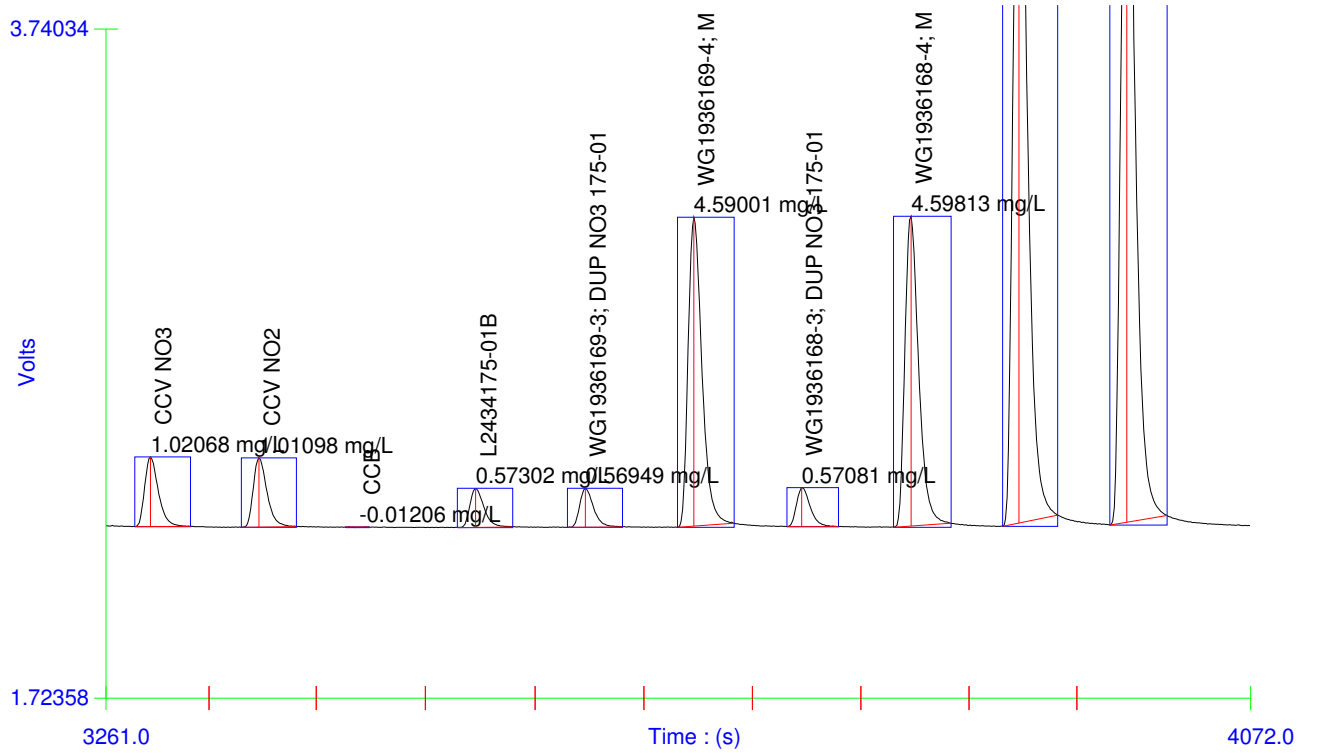
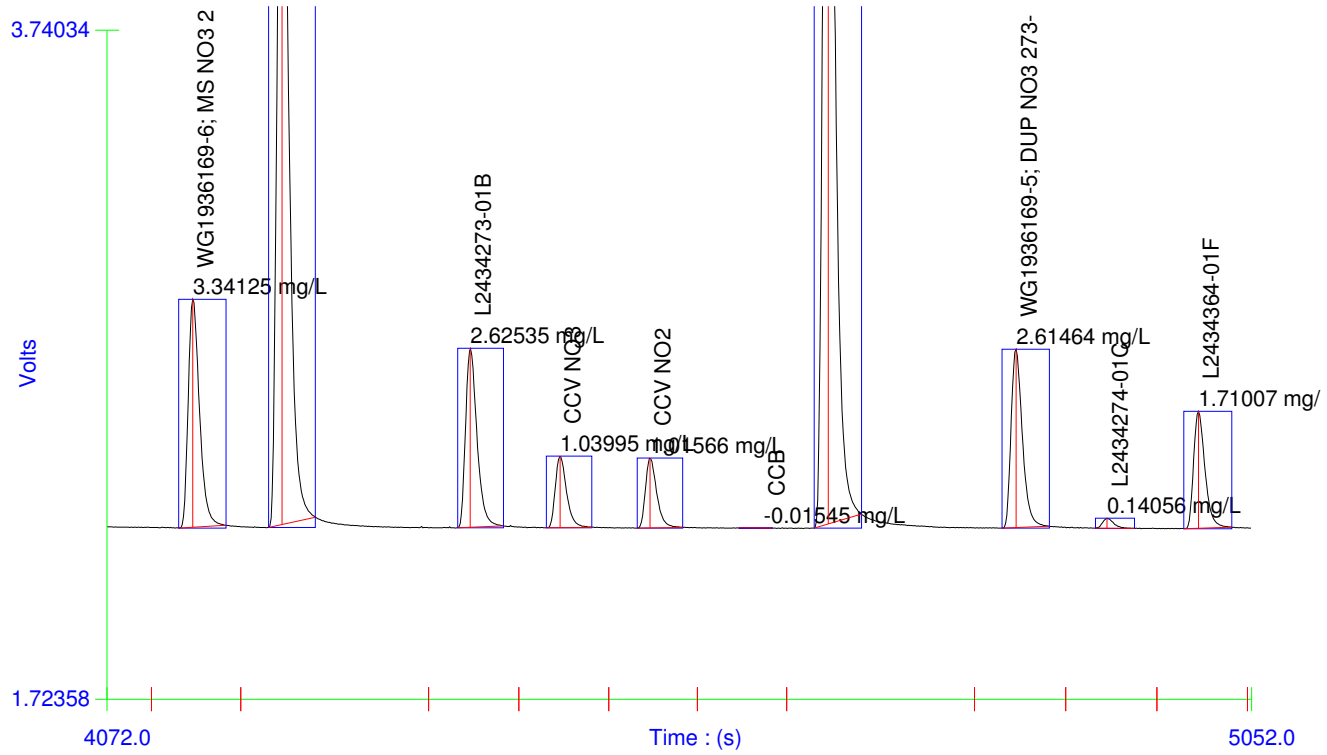
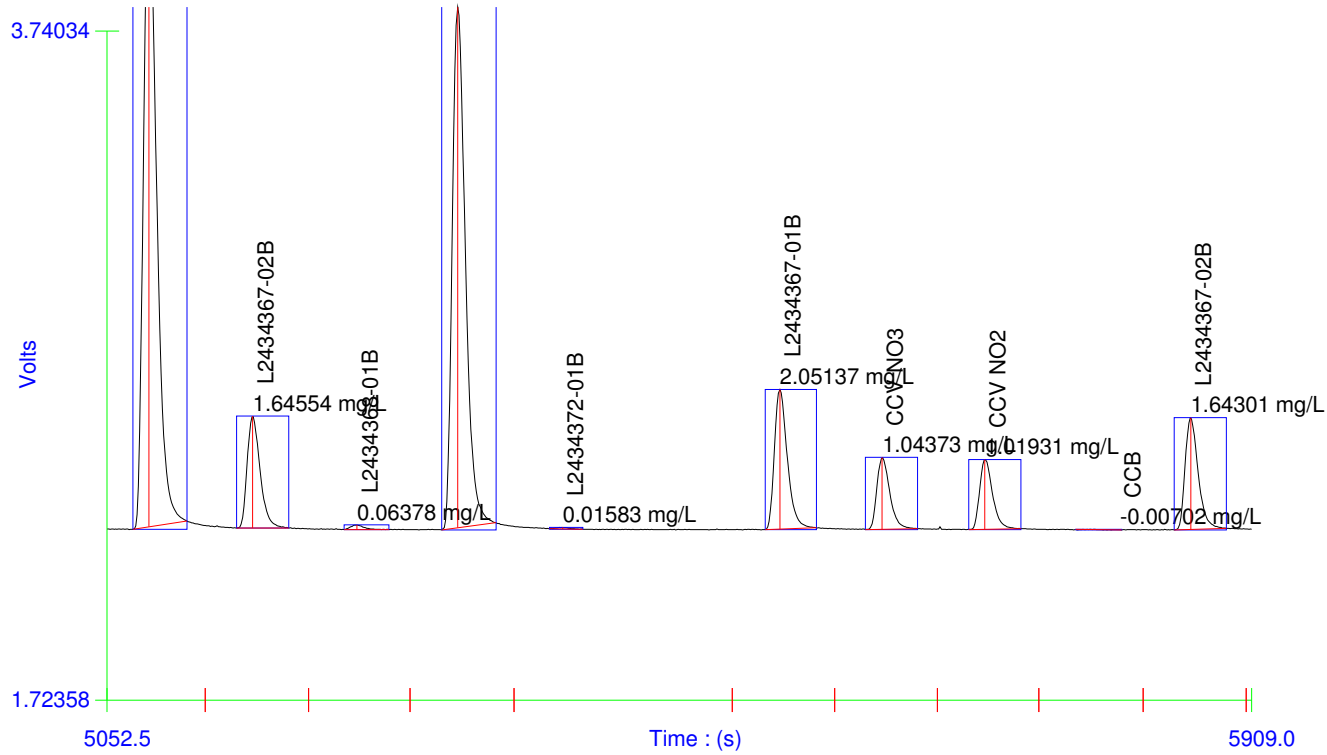


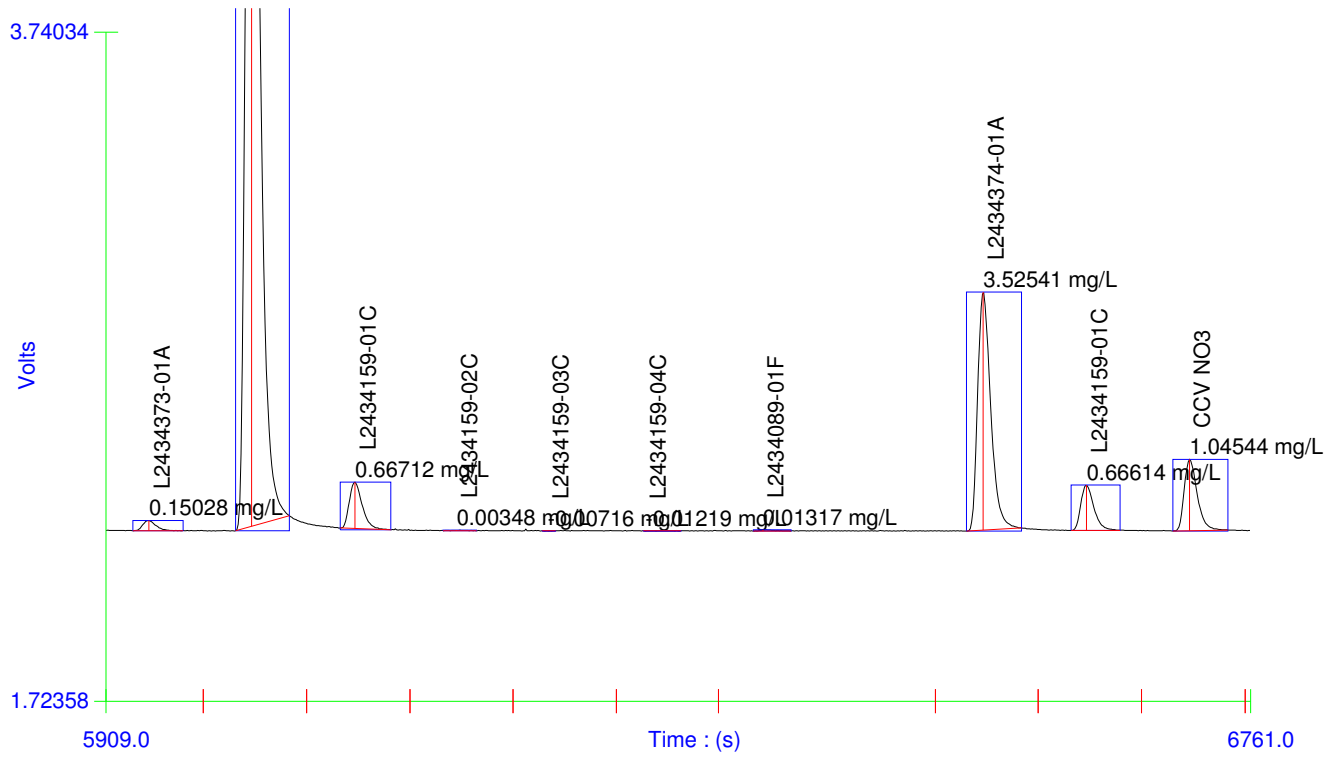
Channel 1 (NO3+NO2) - Set: 6 / 16



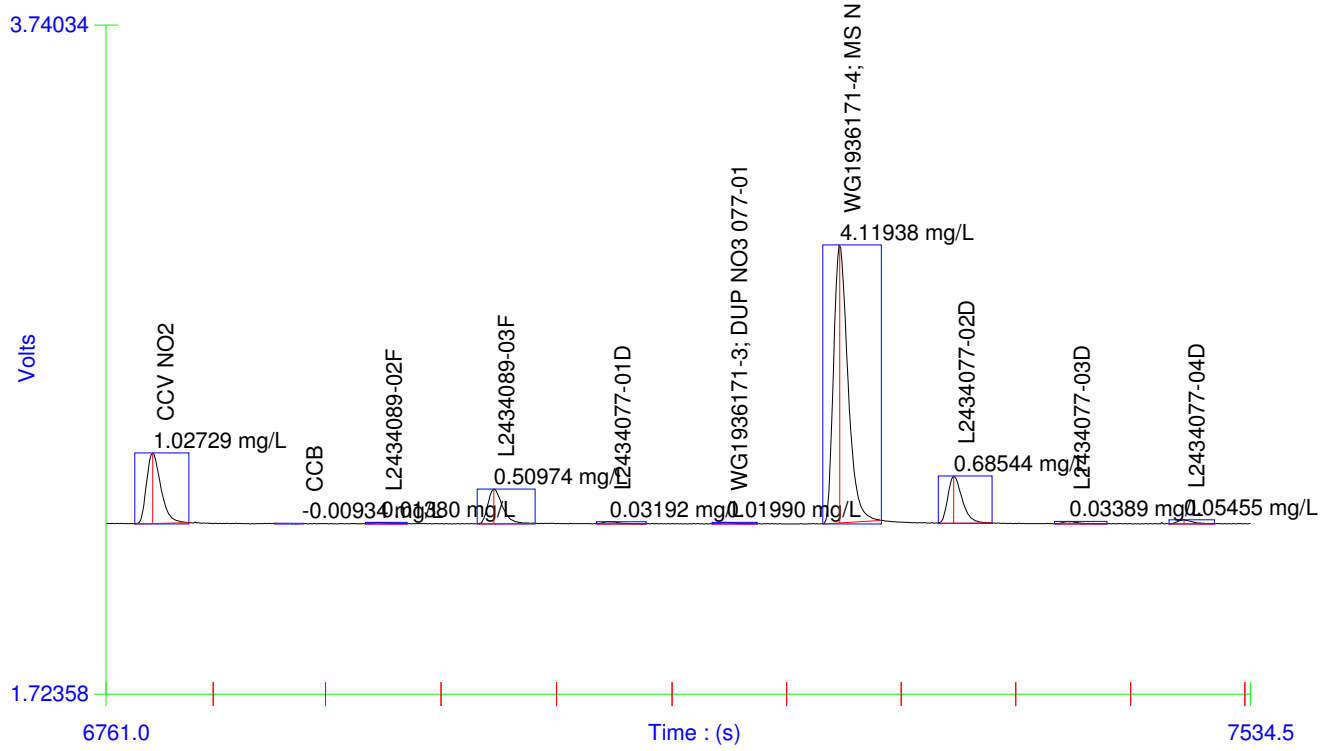
Channel 1 (NO3+NO2) - Set: 7 / 16



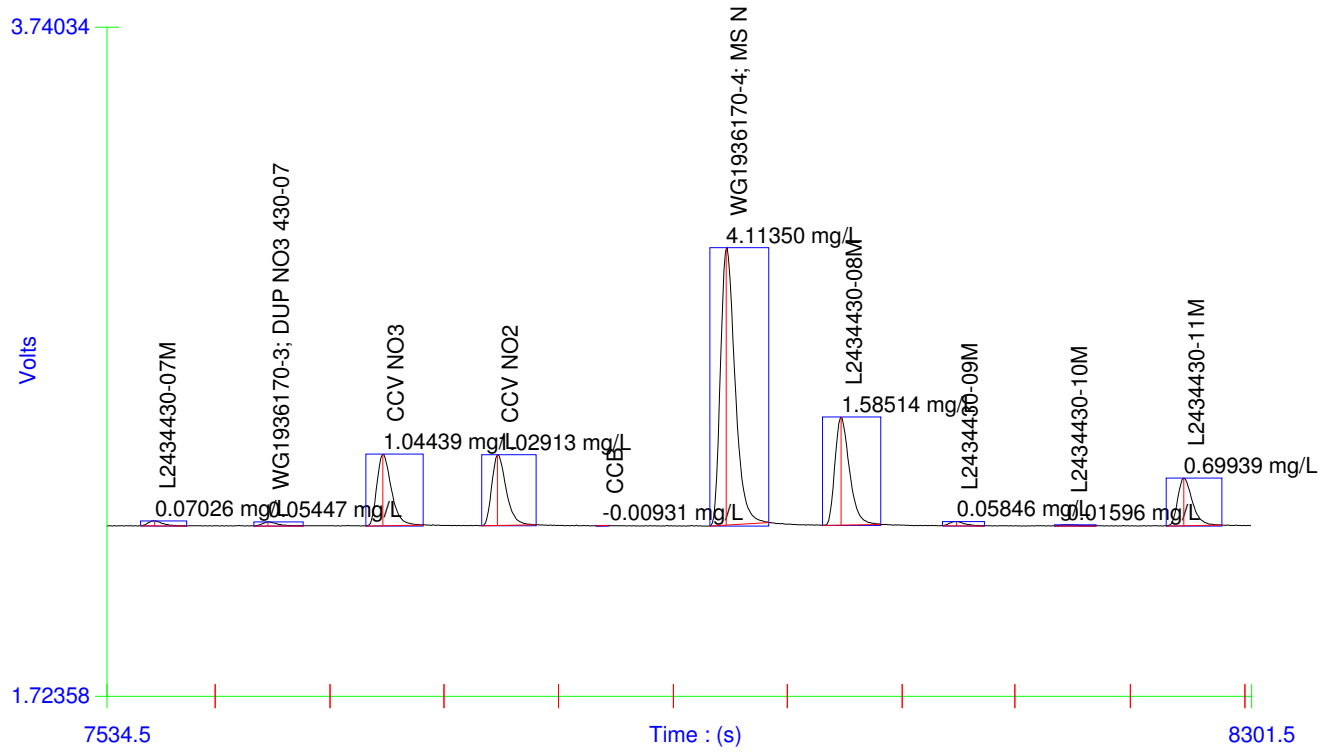
Channel 1 (NO3+NO2) - Set: 8 / 16



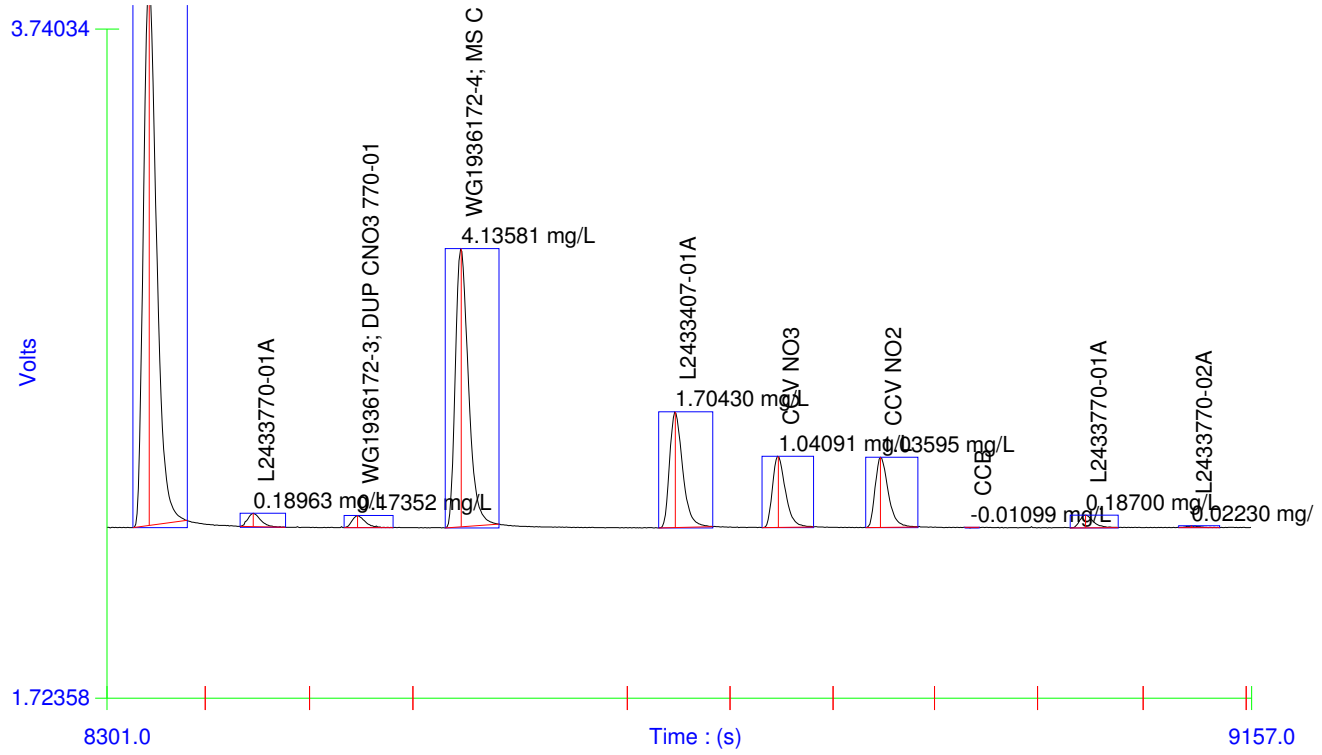
Channel 1 (NO3+NO2) - Set: 9 / 16



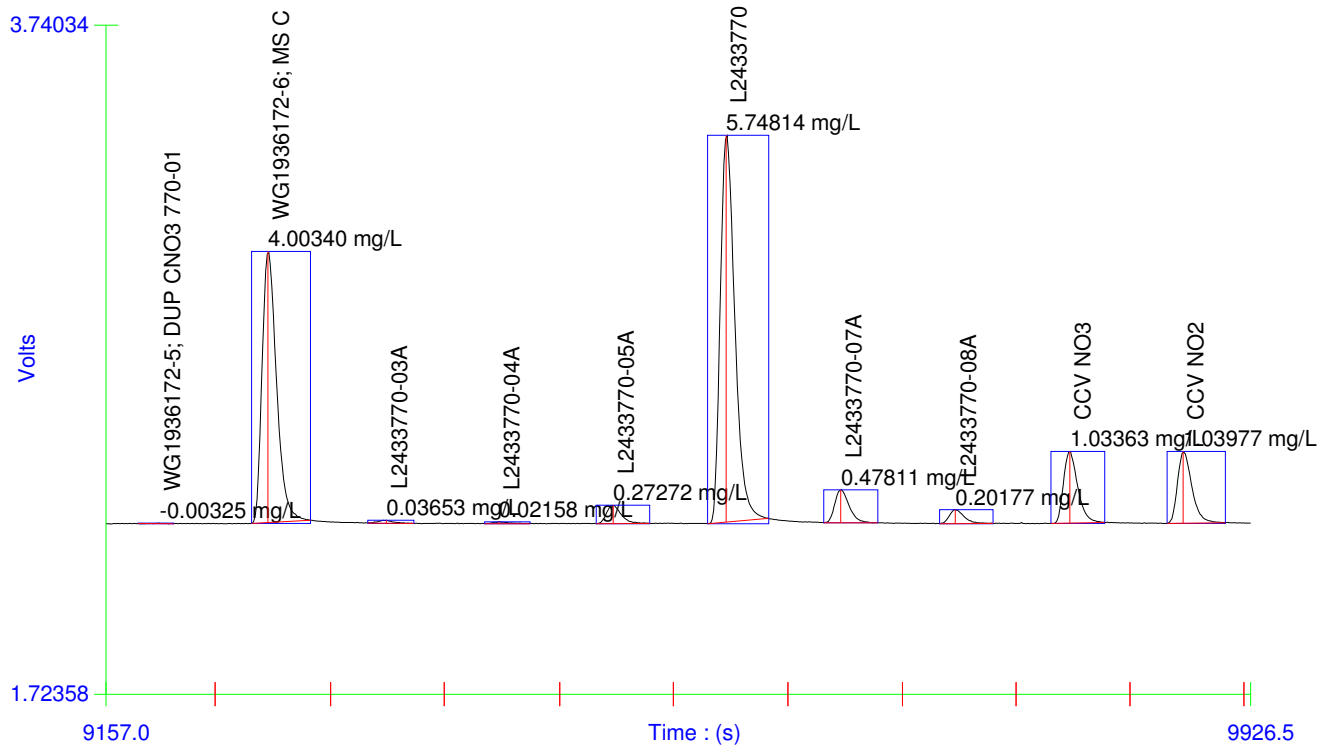
Channel 1 (NO3+NO2) - Set: 10 / 16



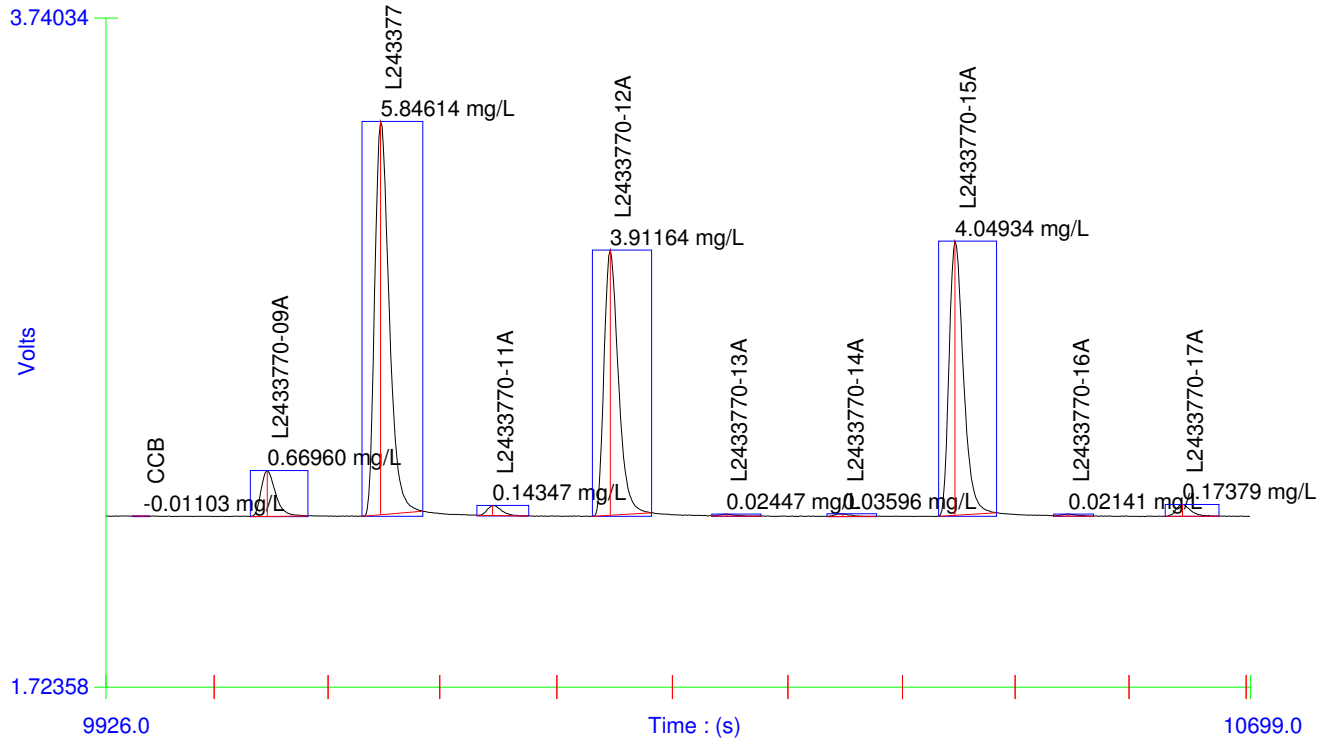
Channel 1 (NO3+NO2) - Set: 11 / 16



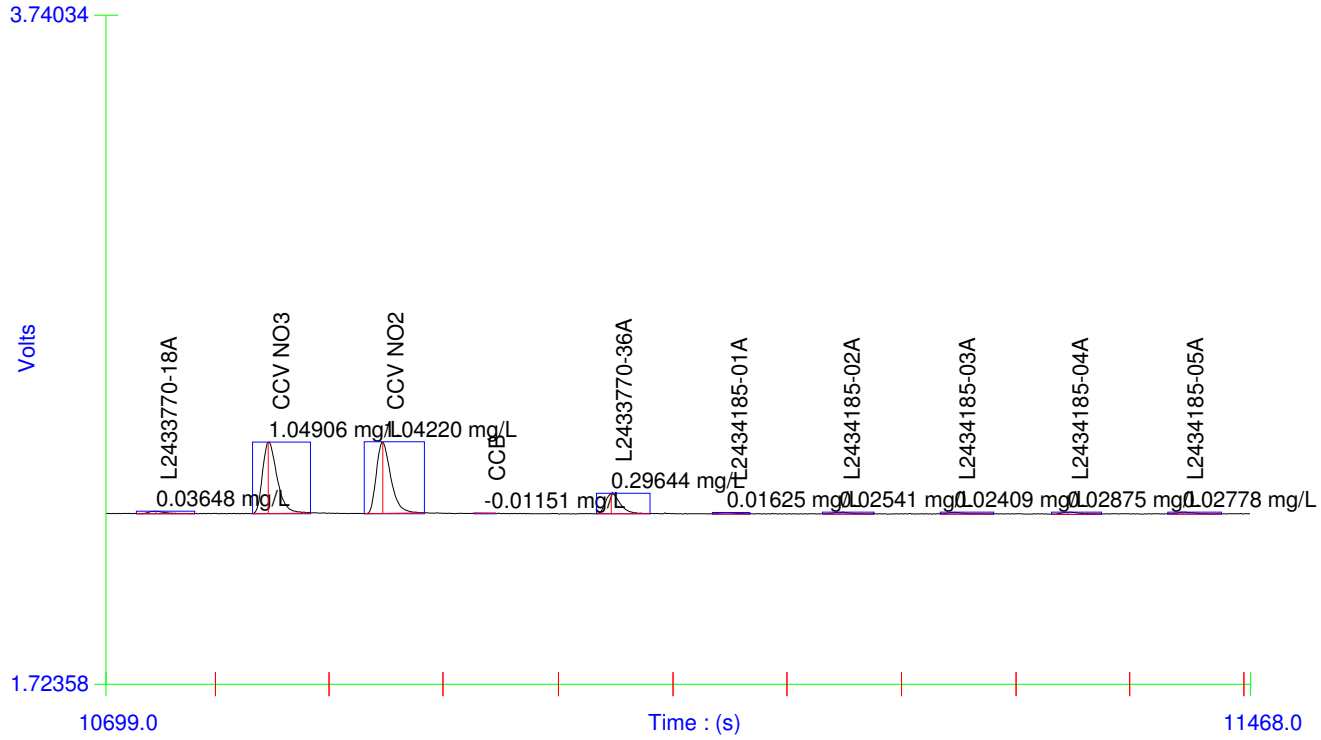
Channel 1 (NO3+NO2) - Set: 12 / 16



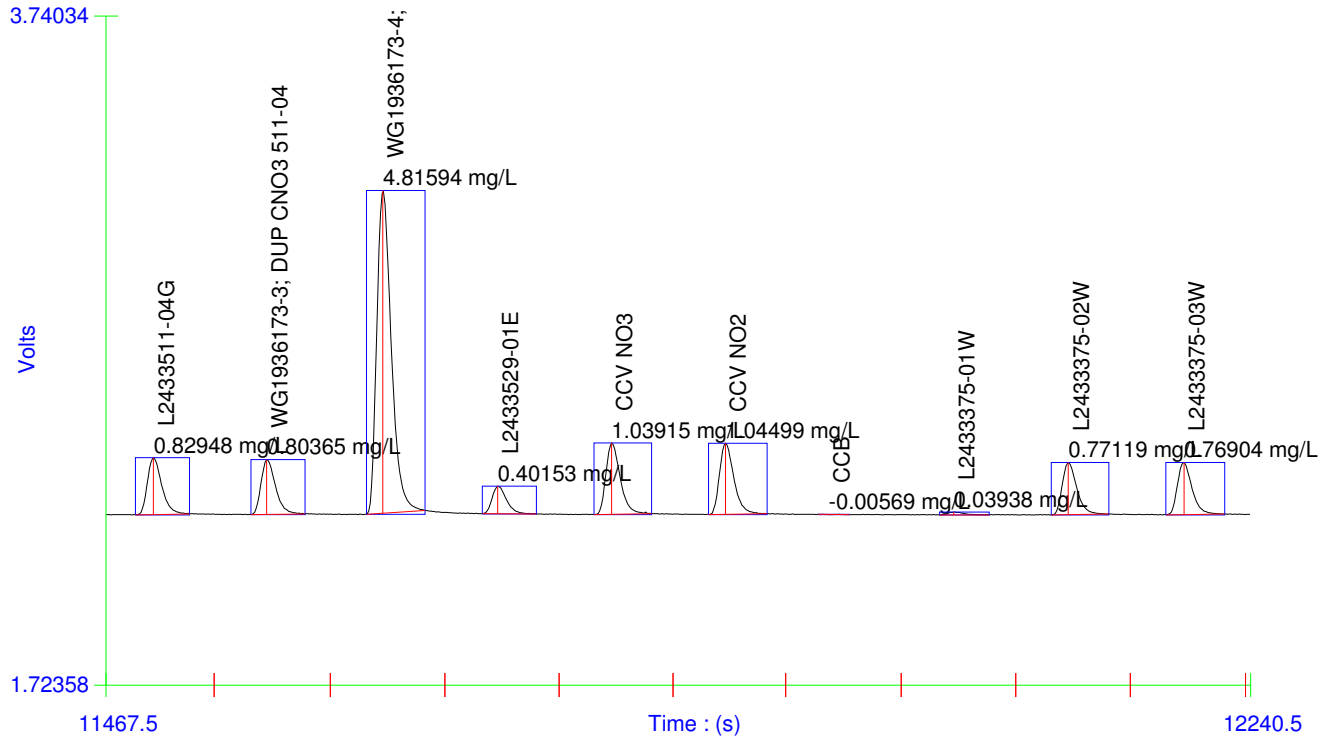
Channel 1 (NO3+NO2) - Set: 13 / 16



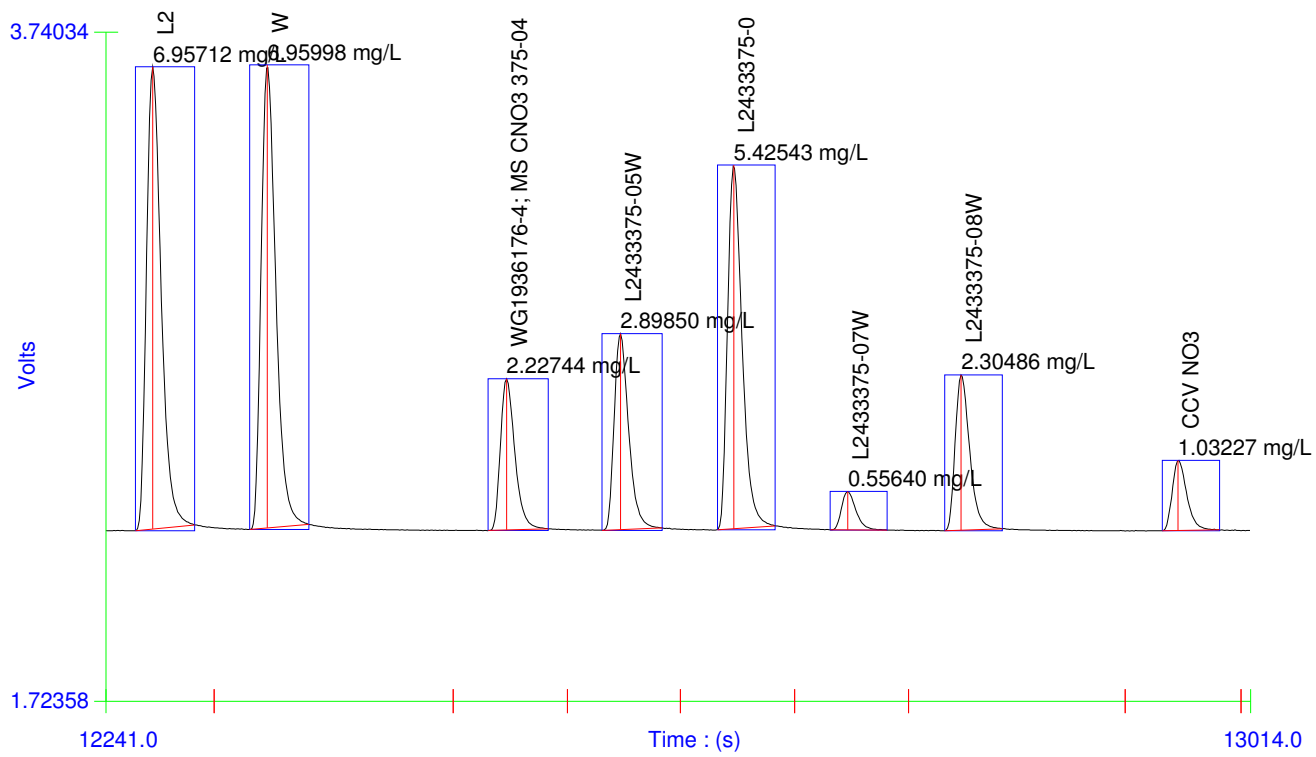
Channel 1 (NO3+NO2) - Set: 14 / 16



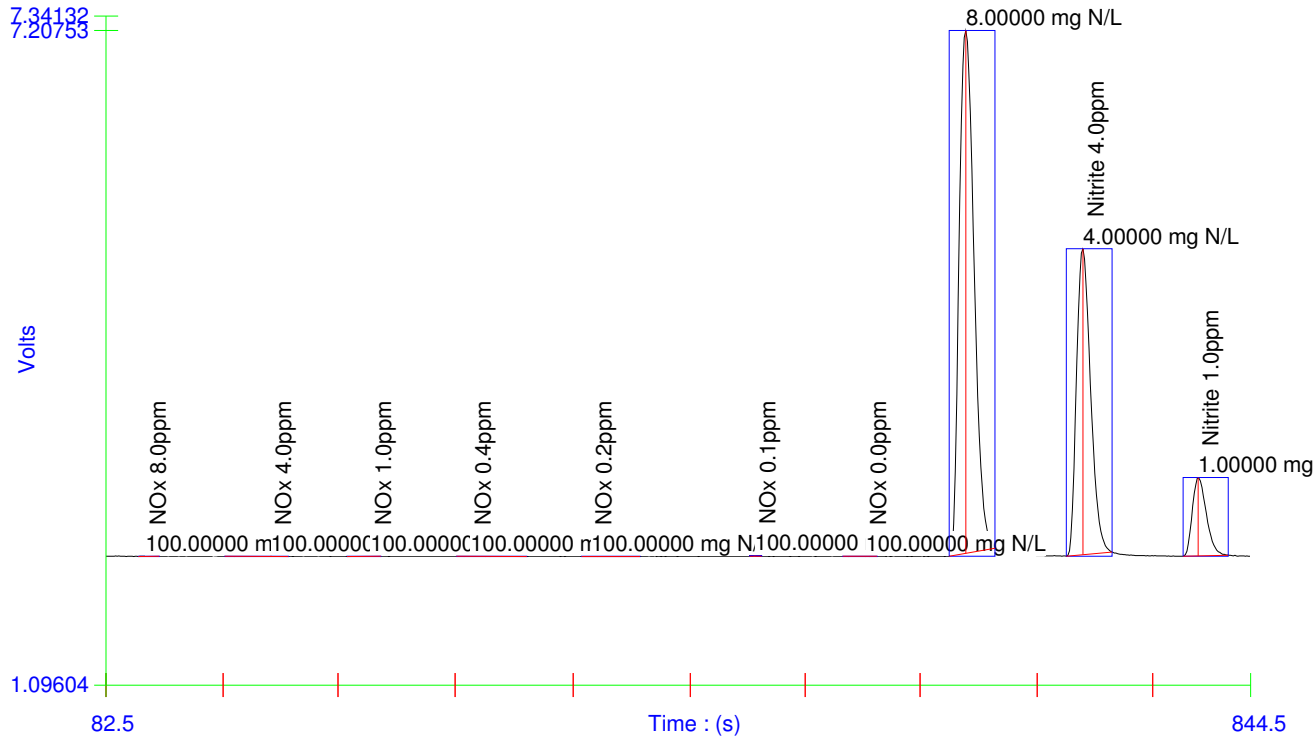
Channel 1 (NO3+NO2) - Set: 15 / 16



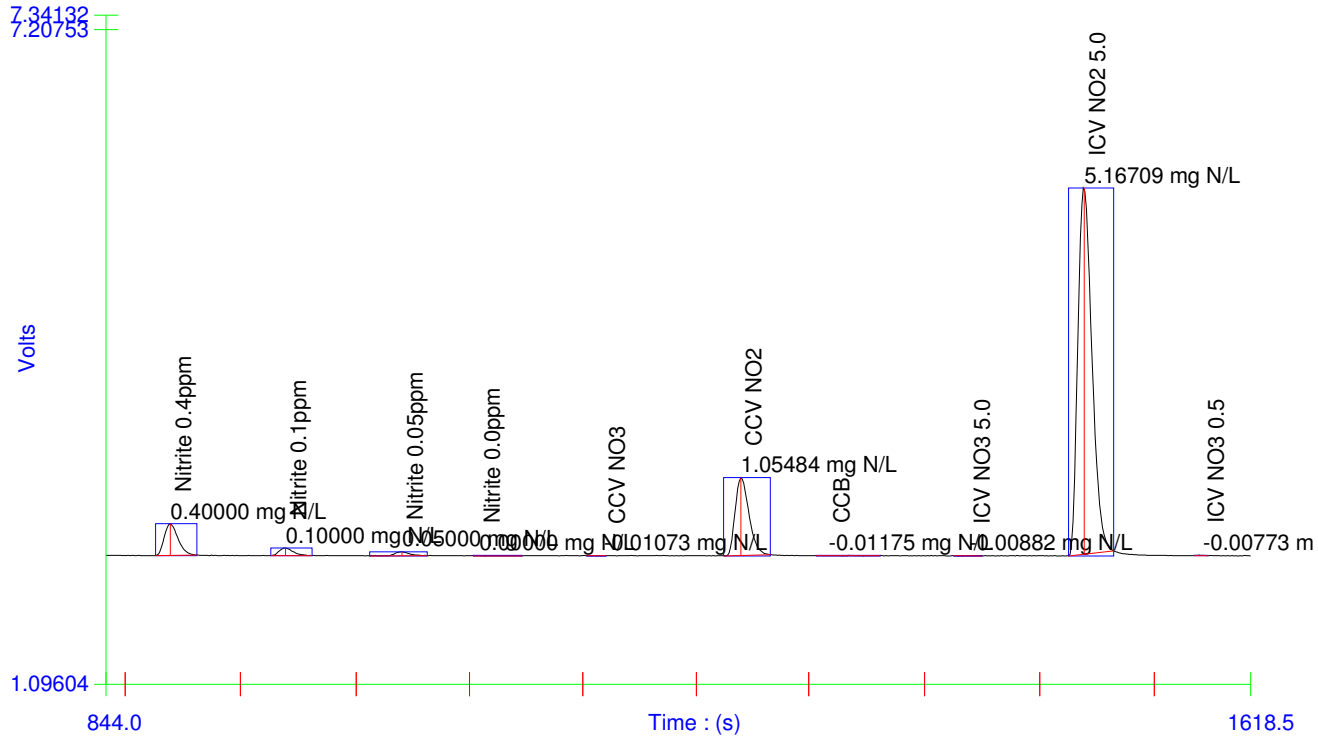
Channel 1 (NO3+NO2) - Set: 16 / 16



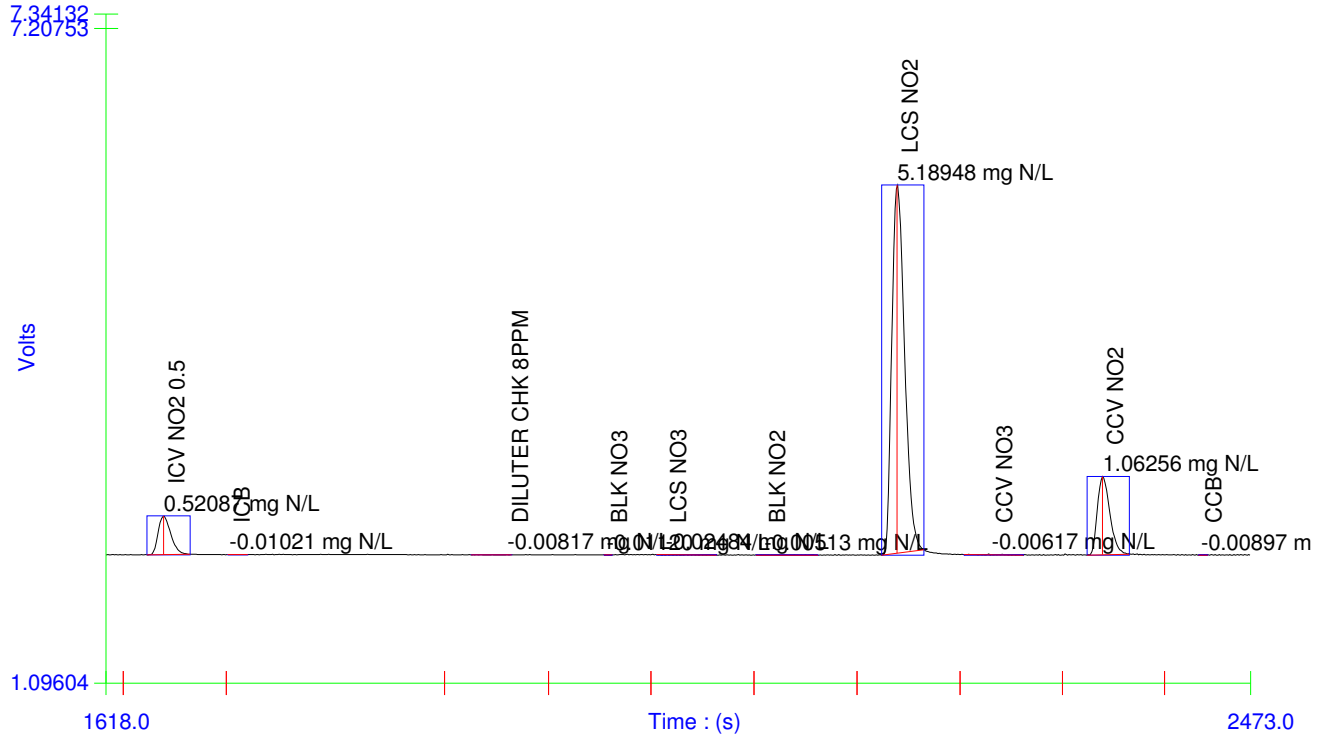
Channel 2 (NO2) - Set: 1 / 16



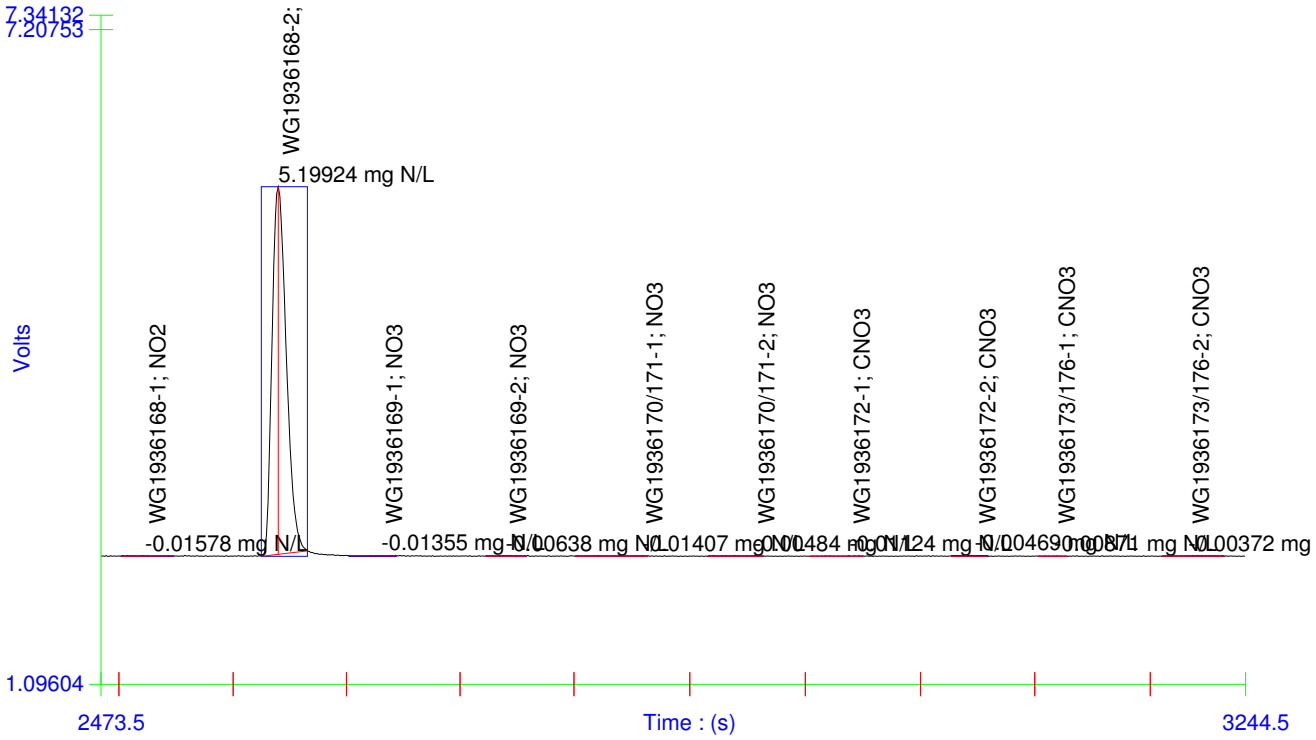
Channel 2 (NO2) - Set: 2 / 16



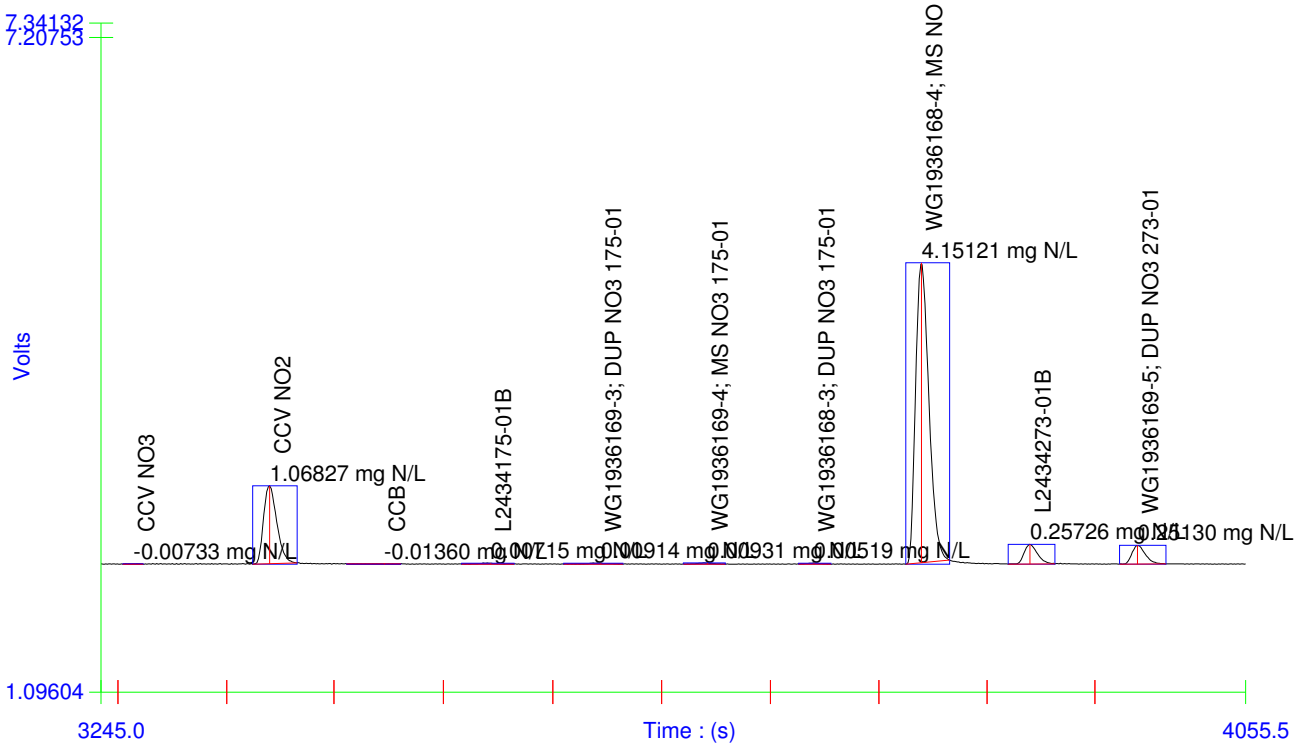
Channel 2 (NO2) - Set: 3 / 16



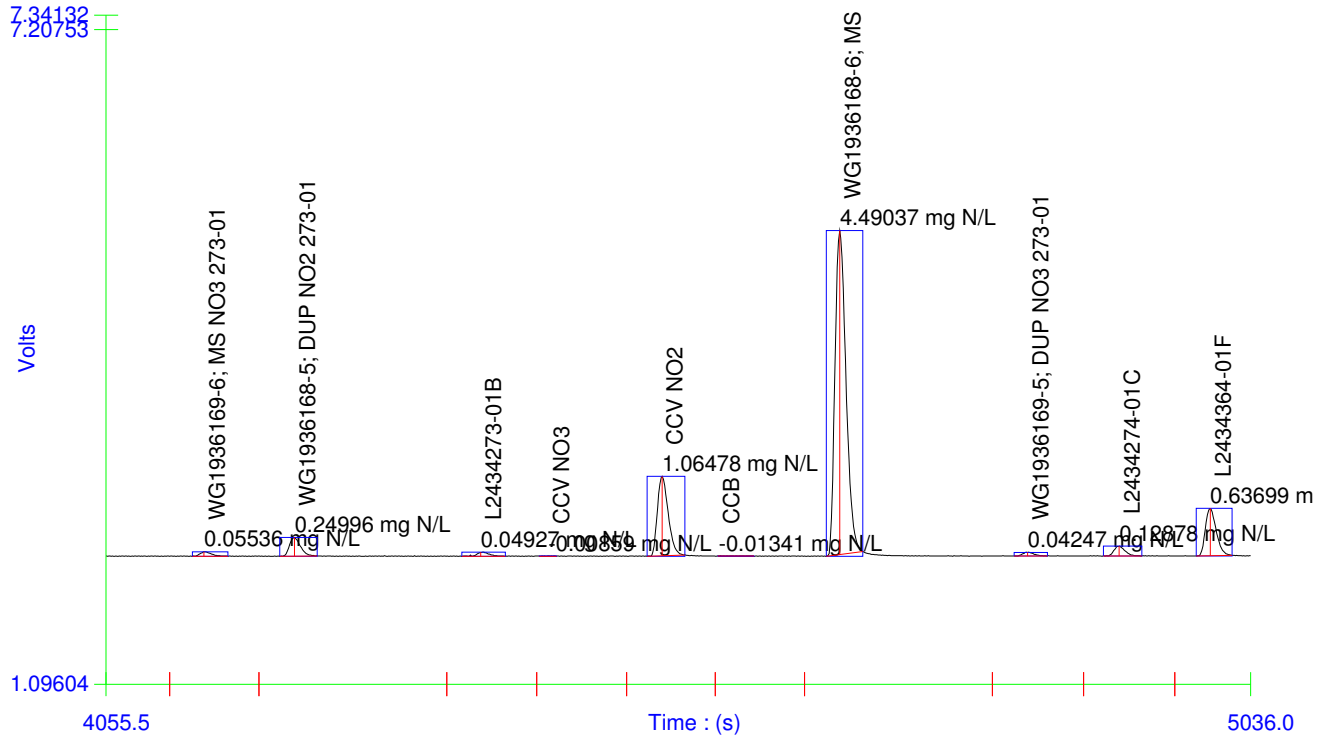
Channel 2 (NO2) - Set: 4 / 16



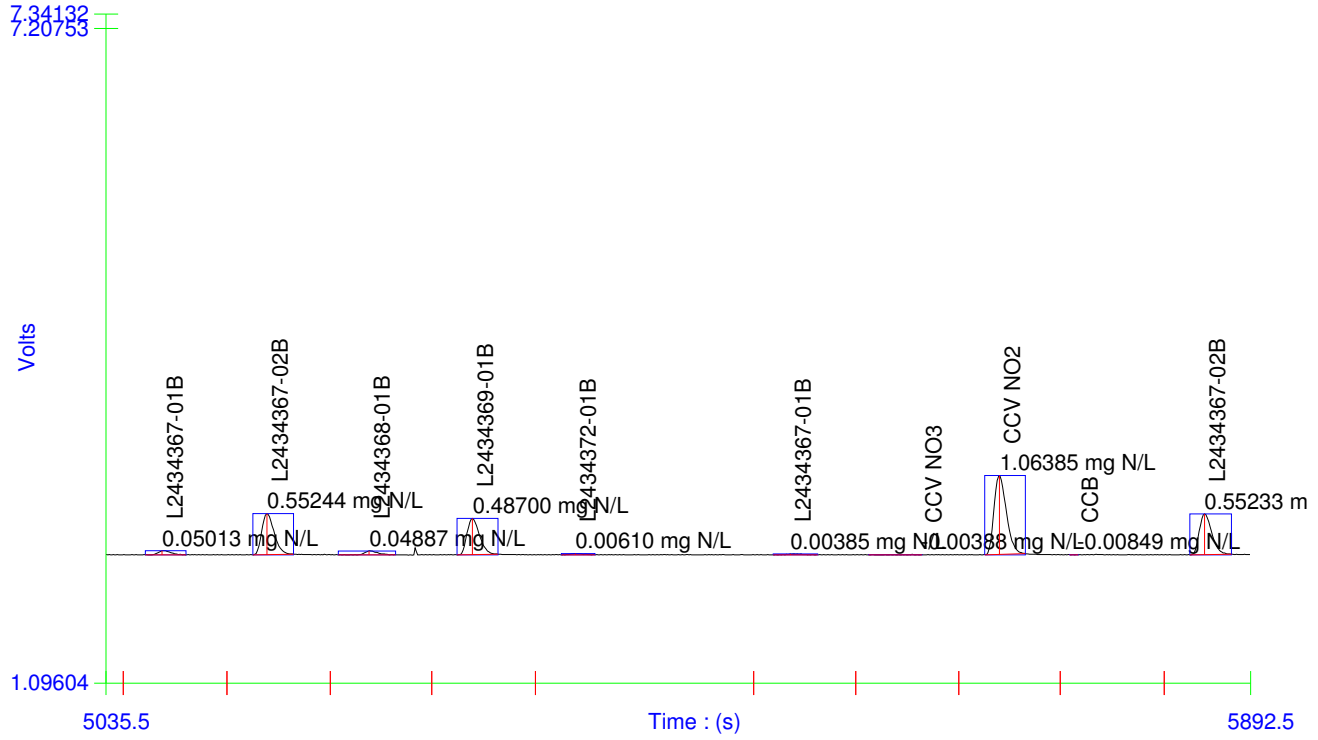
Channel 2 (NO2) - Set: 5 / 16



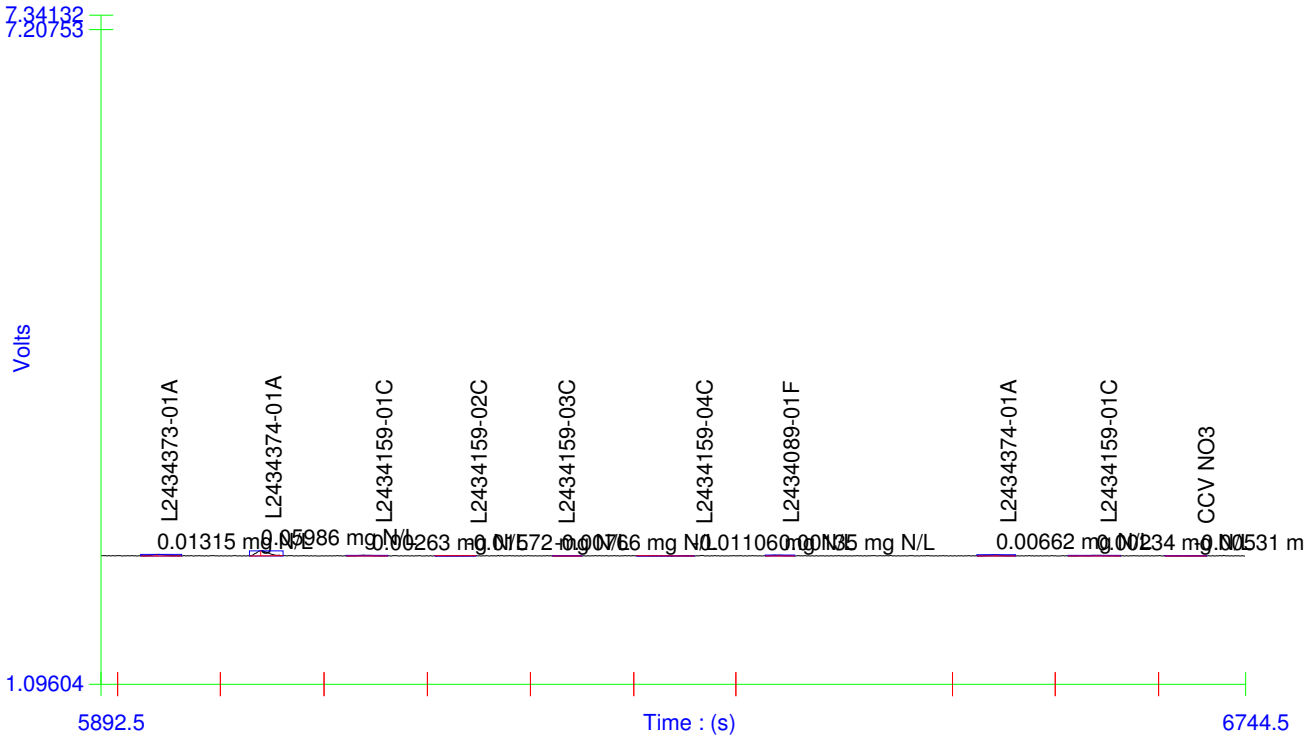
Channel 2 (NO2) - Set: 6 / 16



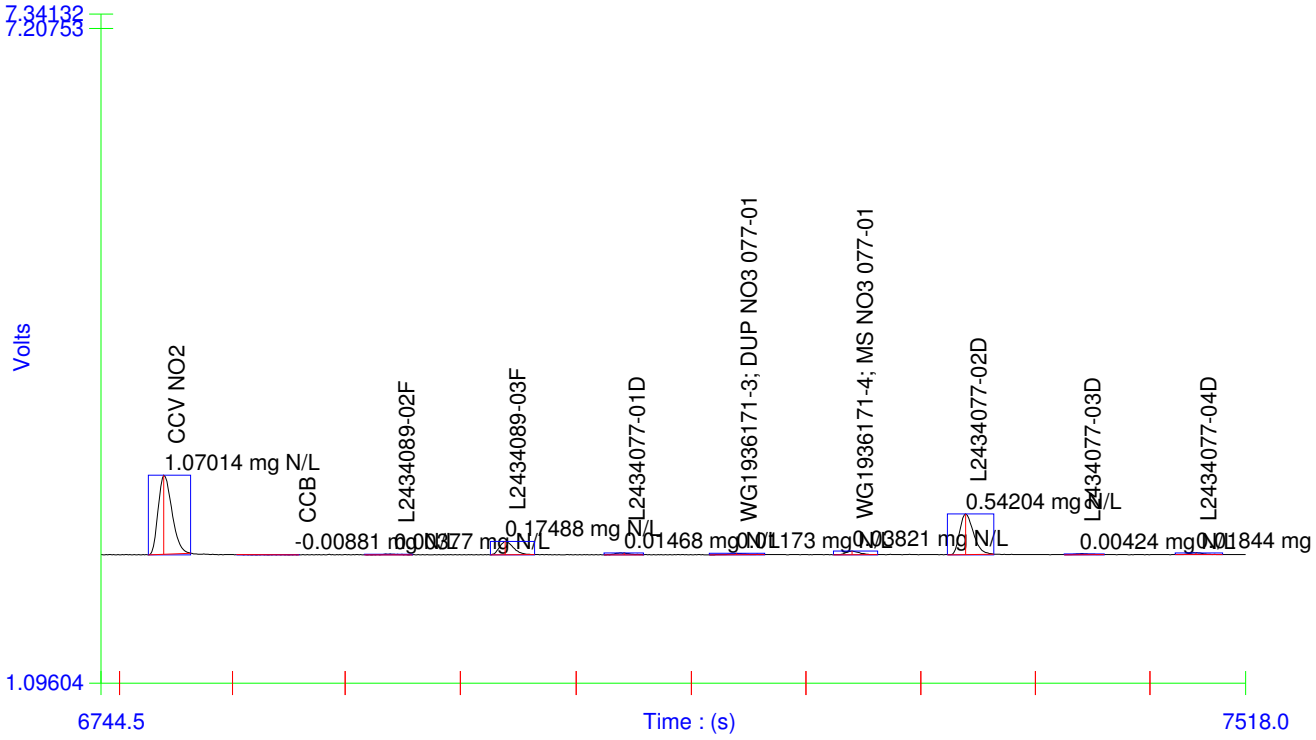
Channel 2 (NO2) - Set: 7 / 16



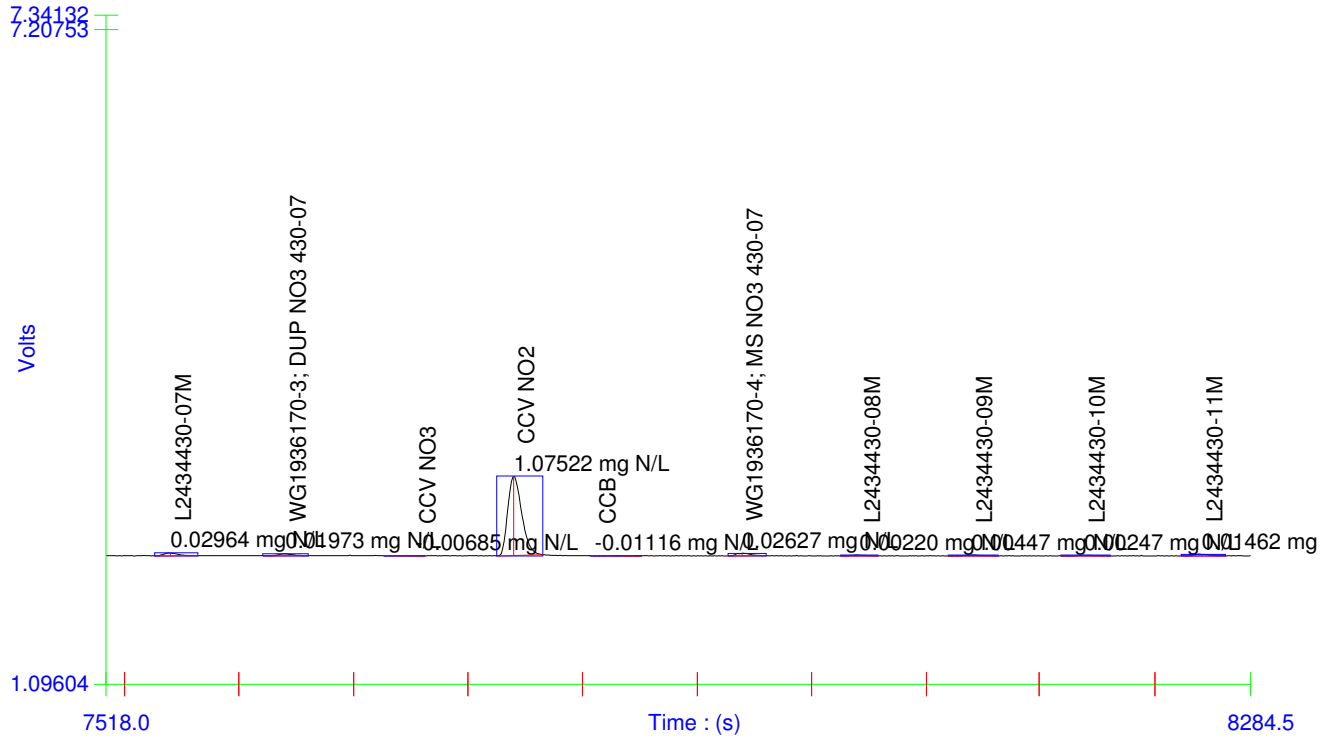
Channel 2 (NO2) - Set: 8 / 16



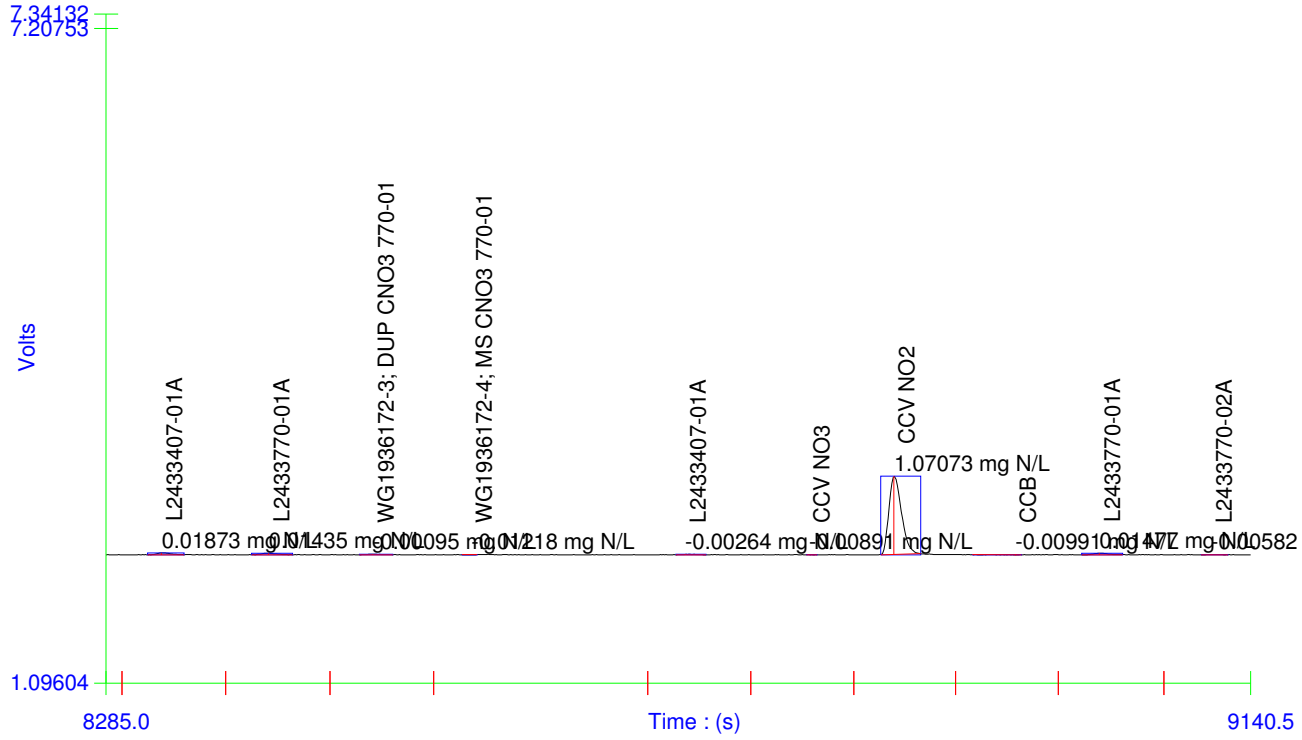
Channel 2 (NO2) - Set: 9 / 16



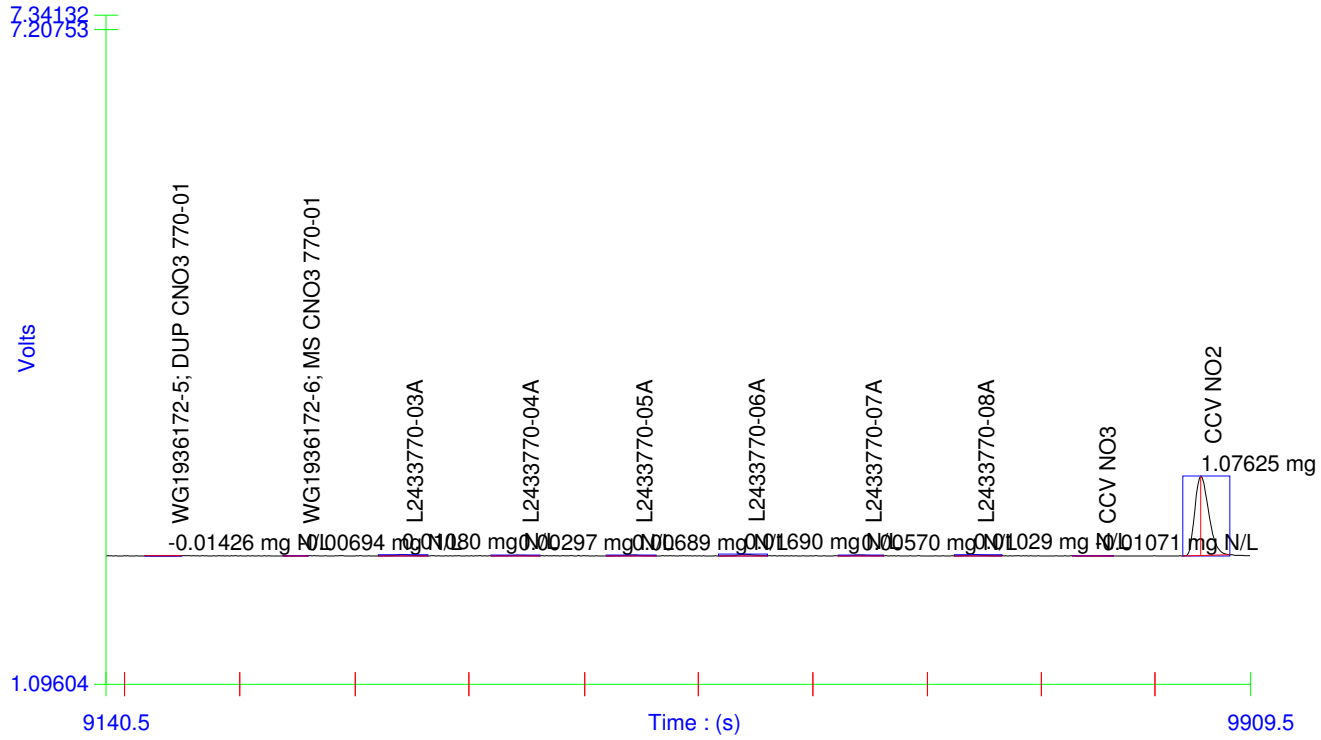
Channel 2 (NO2) - Set: 10 / 16



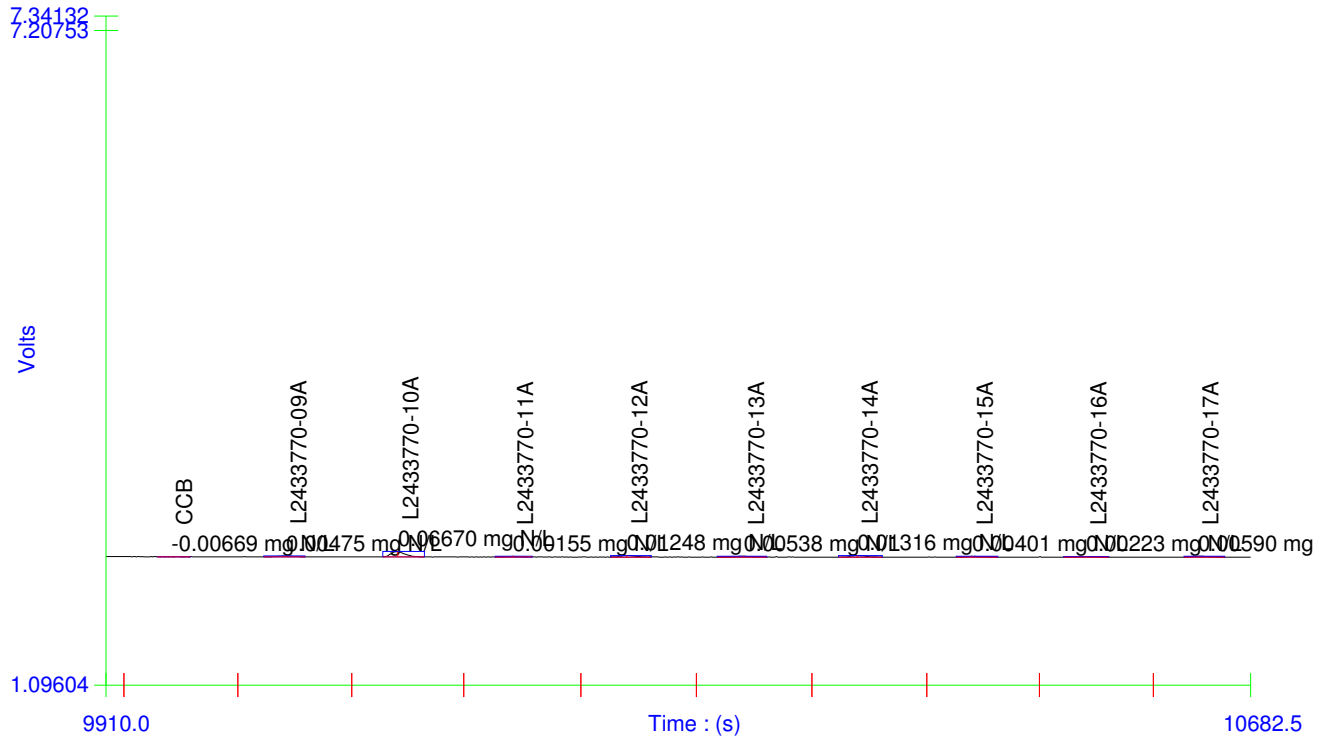
Channel 2 (NO2) - Set: 11 / 16



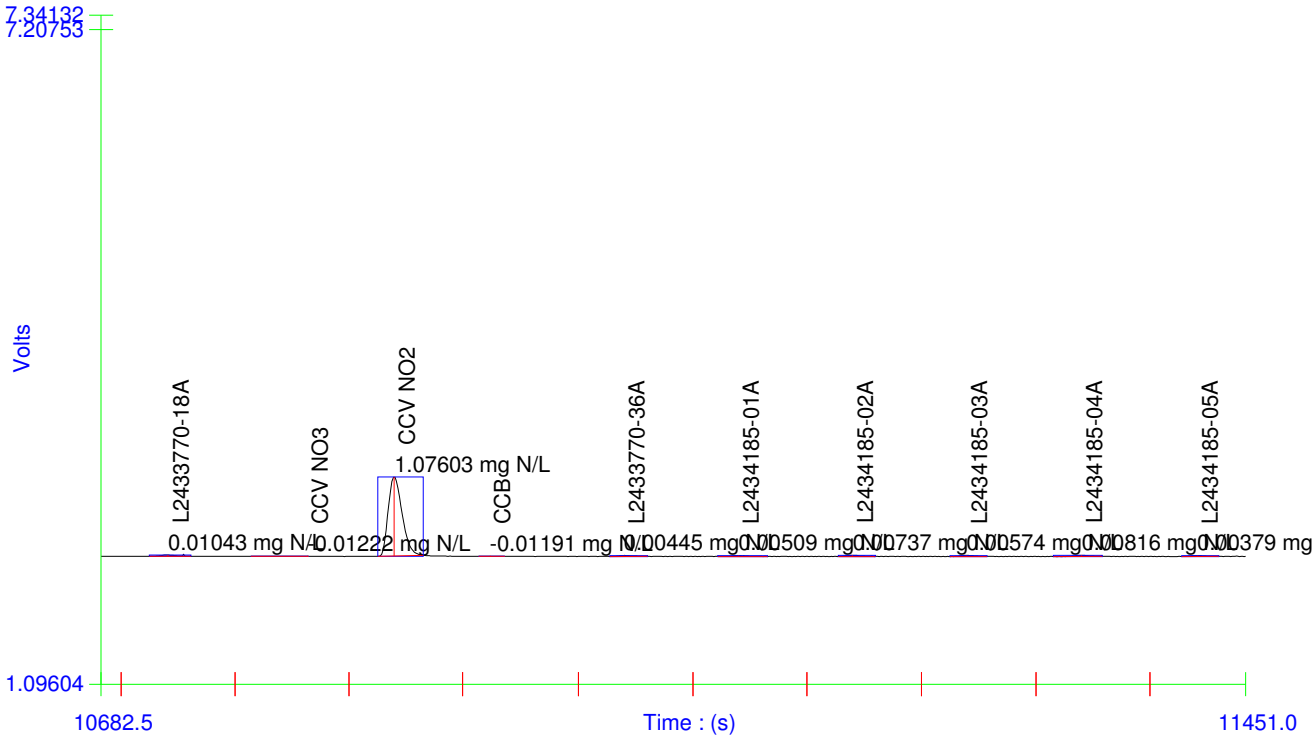
Channel 2 (NO2) - Set: 12 / 16



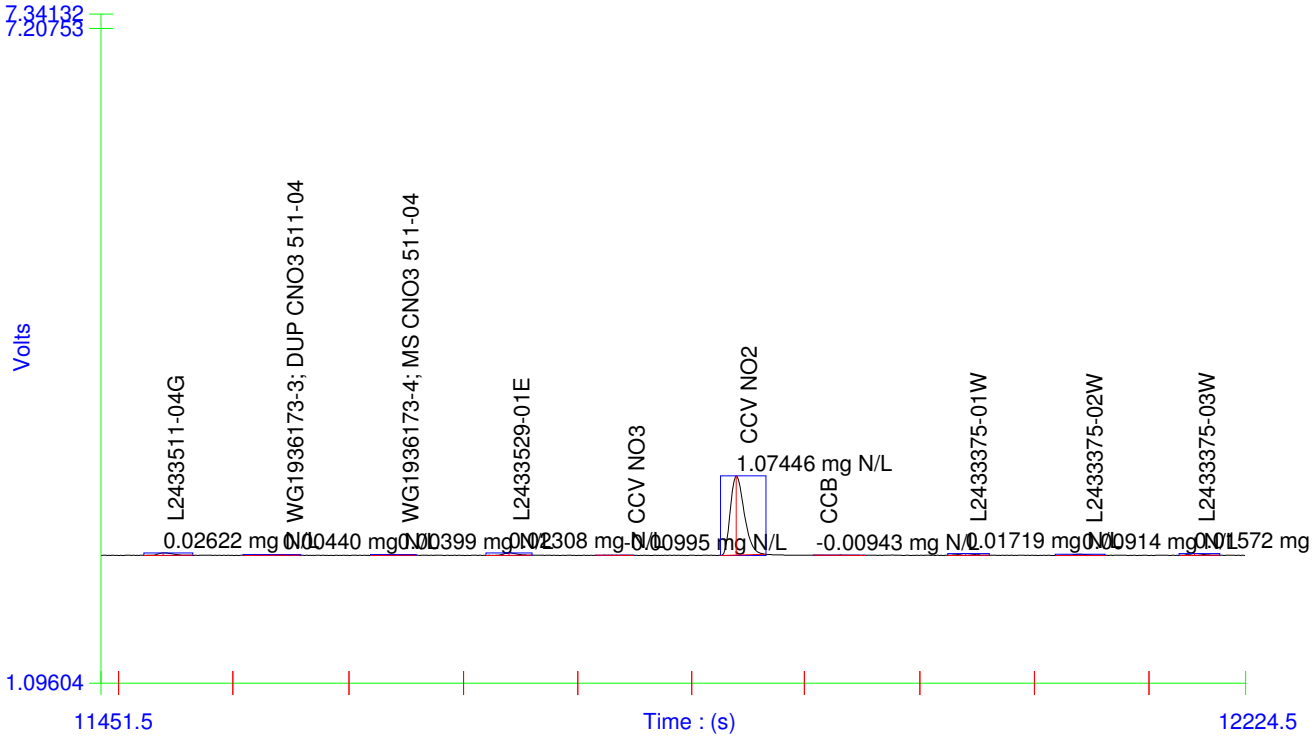
Channel 2 (NO2) - Set: 13 / 16



Channel 2 (NO2) - Set: 14 / 16



Channel 2 (NO2) - Set: 15 / 16



Channel 2 (NO2) - Set: 16 / 16

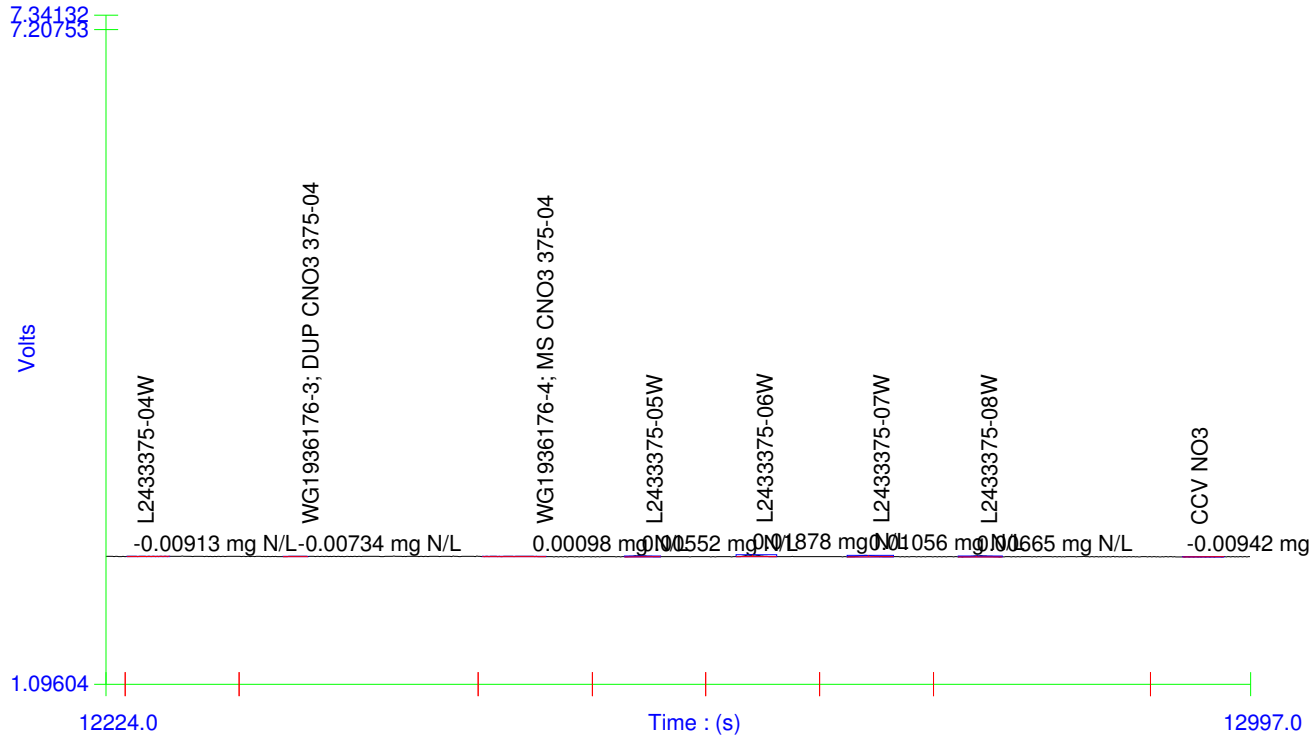


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.90974	1.55943	0.0	2.2	7.81452	6/19/2024	2:19:17 AM
2	4.00000	1	9.49491	0.84336	0.0	-3.6	4.13942	6/19/2024	2:20:35 AM
3	1.00000	1	2.35117	0.20731	0.0	-2.0	1.01946	6/19/2024	2:21:51 AM
4	0.40000	1	0.97346	0.08463	0.0	-4.4	0.41776	6/19/2024	2:23:10 AM
5	0.20000	1	0.47859	0.04157	0.0	-0.8	0.20163	6/19/2024	2:24:28 AM
6	0.10000	1	0.23792	0.02049	0.0	3.3	0.09652	6/19/2024	2:25:46 AM
7	0.00000	1	0.00575	-0.00105			-0.00488	6/19/2024	2:27:03 AM

Figure : 1 (NO3+NO2)

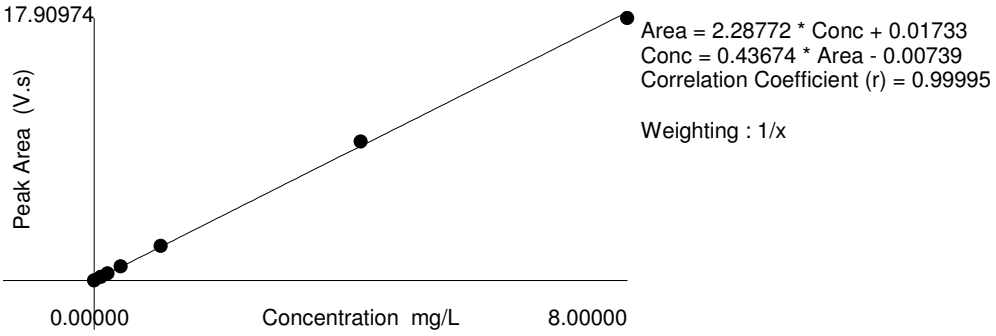
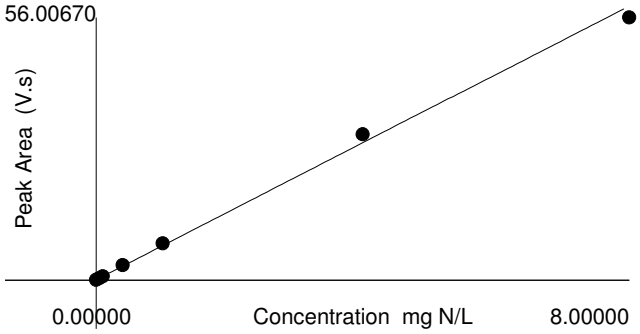


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.00670	4.88140	0.0	4.2	7.64552	6/19/2024	2:28:20 AM
2	4.00000	1	31.05285	2.85521	0.0	-6.1	4.23479	6/19/2024	2:29:38 AM
3	1.00000	1	7.84582	0.72998	0.0	-6.5	1.06281	6/19/2024	2:30:55 AM
4	0.40000	1	3.17934	0.29493	0.0	-6.3	0.42499	6/19/2024	2:32:13 AM
5	0.10000	1	0.80016	0.07255	0.0	0.2	0.09980	6/19/2024	2:33:31 AM
6	0.05000	1	0.41098	0.03520	0.0	6.0	0.04661	6/19/2024	2:34:50 AM
7	0.00000	1	0.04442	0.00338			-0.00349	6/19/2024	2:36:06 AM

Figure : 2 (Nitrite)



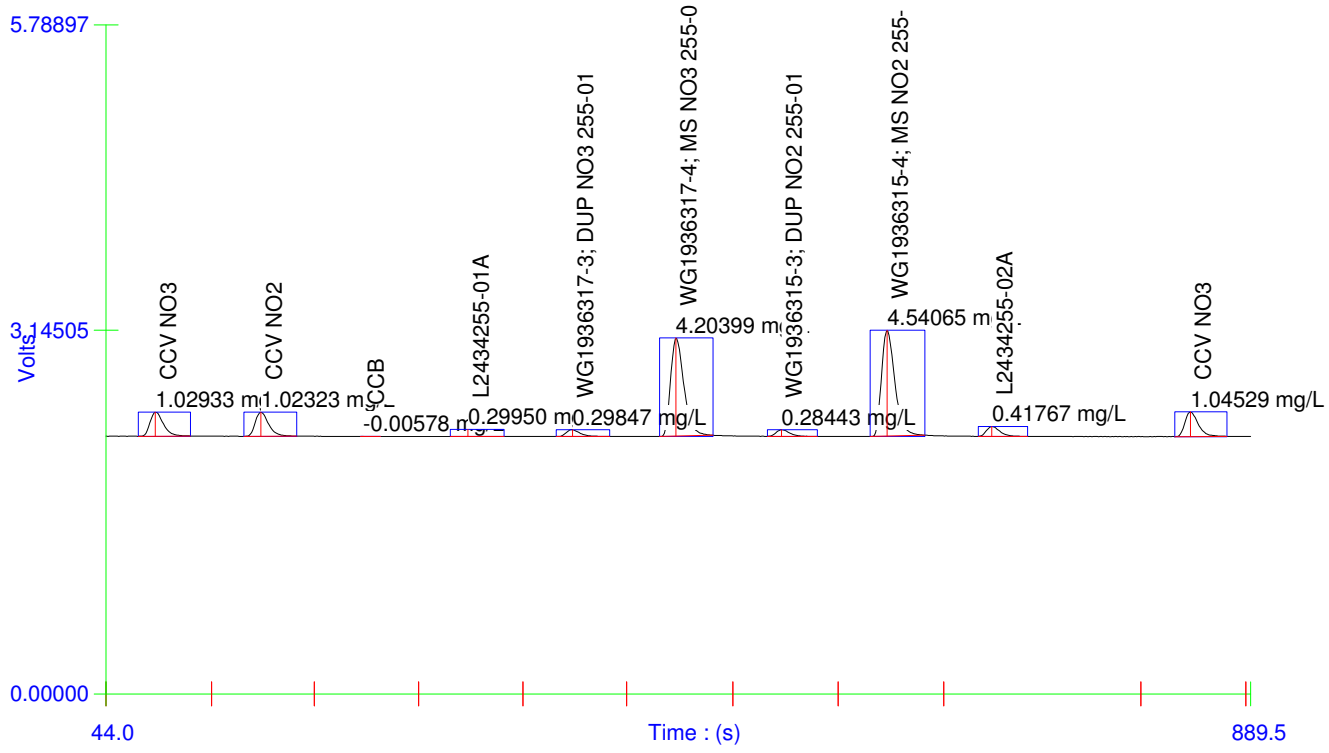
Area = 7.29613 * Conc + 0.07222
Conc = 0.13668 * Area - 0.00956
Correlation Coefficient (r) = 0.99991

Weighting : 1/x

Original Run Filename: OM_6-19-2024_08-04-01AM.OMN Created: 6/19/2024 8:04:01 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-19-2024_08-04-01AM.OMN Last Modified: 6/19/2024 8:22:00 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

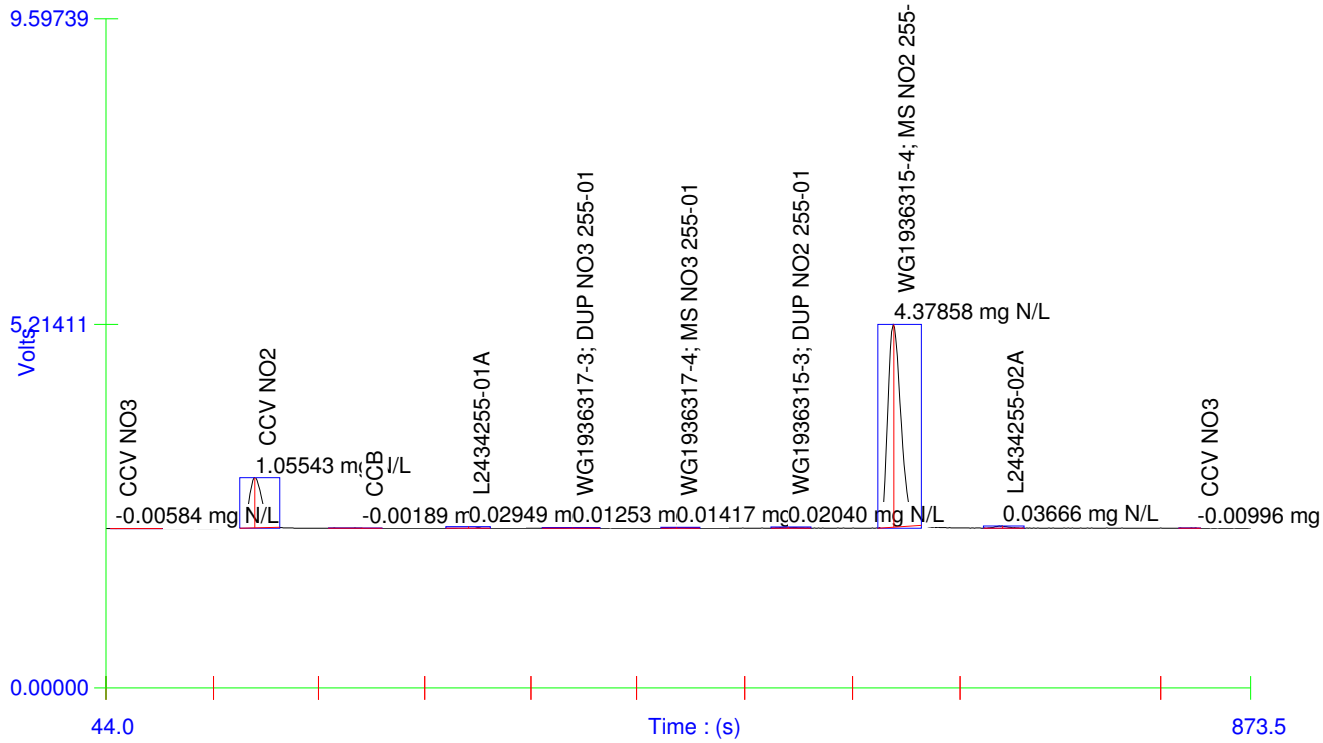
Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
CCV NO3	1	S2	1.02933	-0.00584			
	Known Conc:		1.00000	0.00000			
	Calibration:			Table/Fig. : 1			
CCV NO2	1	S9	1.02323	1.05543			
	Known Conc:		0.00000	1.00000			
	Calibration:		Table/Fig. : 2				
CCB	1	S1	-0.00578	-0.00189			
	Known Conc:		0.00000	0.00000			
L2434255-01A	1	103	0.29950	0.02949			
WG1936317-3; DUP NO3 255-01	1	104	0.29847	0.01253			
WG1936317-4; MS NO3 255-01	1	105	4.20399	0.01417			
WG1936315-3; DUP NO2 255-01	1	106	0.28443	0.02040			
WG1936315-4; MS NO2 255-01	1	107	4.54065	4.37858			
L2434255-02A	1	108	0.41767	0.03666			
CCV NO3	1	S2	1.04529	-0.00996			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03141	1.07386			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01006	-0.01039			
	Known Conc:		0.00000	0.00000			

Channel 1 (NO3+NO2) - Set: 1 / 2



Channel 1 (NO3+NO2) - Set: 2 / 2

Channel 2 (NO2) - Set: 1 / 2



Channel 2 (NO2) - Set: 2 / 2

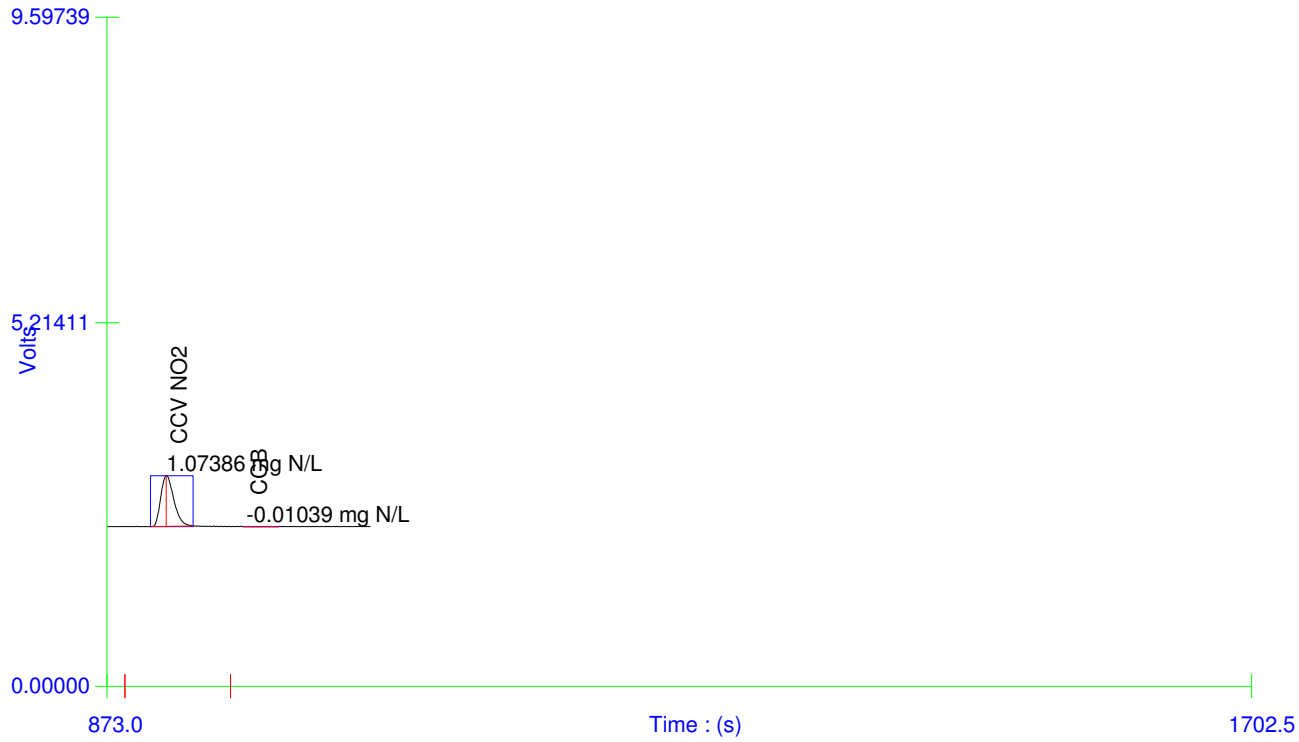


Table : 1 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.00670	4.88140	0.0	4.2	7.64552	6/19/2024	2:28:20 AM
2	4.00000	1	31.05285	2.85521	0.0	-6.1	4.23479	6/19/2024	2:29:38 AM
3	1.00000	1	7.84582	0.72998	0.0	-6.5	1.06281	6/19/2024	2:30:55 AM
4	0.40000	1	3.17934	0.29493	0.0	-6.3	0.42499	6/19/2024	2:32:13 AM
5	0.10000	1	0.80016	0.07255	0.0	0.2	0.09980	6/19/2024	2:33:31 AM
6	0.05000	1	0.41098	0.03520	0.0	6.0	0.04661	6/19/2024	2:34:50 AM
7	0.00000	1	0.04442	0.00338			-0.00349	6/19/2024	2:36:06 AM

Figure : 1 (Nitrite)

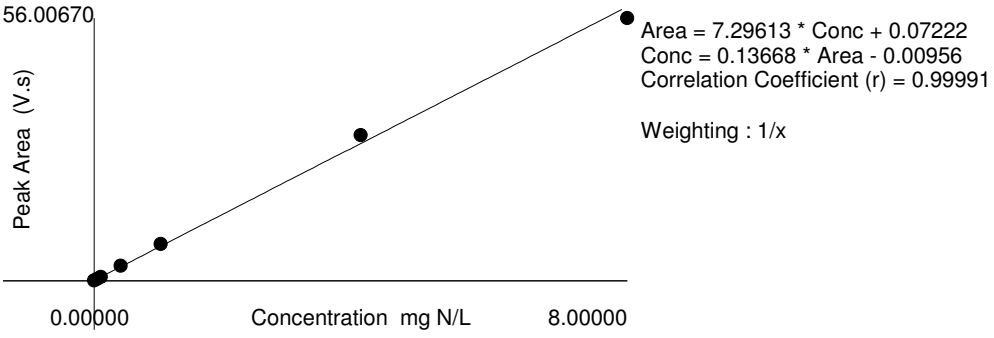
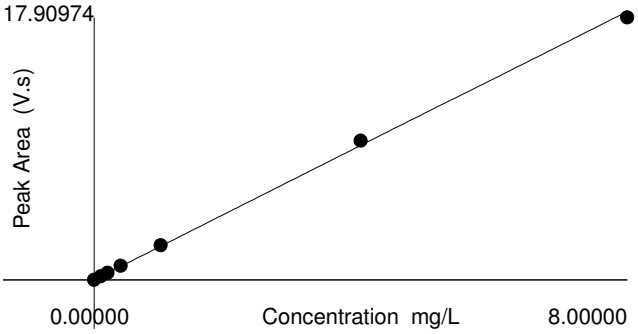


Table : 2 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.90974	1.55943	0.0	2.2	7.81452	6/19/2024	2:19:17 AM
2	4.00000	1	9.49491	0.84336	0.0	-3.6	4.13942	6/19/2024	2:20:35 AM
3	1.00000	1	2.35117	0.20731	0.0	-2.0	1.01946	6/19/2024	2:21:51 AM
4	0.40000	1	0.97346	0.08463	0.0	-4.4	0.41776	6/19/2024	2:23:10 AM
5	0.20000	1	0.47859	0.04157	0.0	-0.8	0.20163	6/19/2024	2:24:28 AM
6	0.10000	1	0.23792	0.02049	0.0	3.3	0.09652	6/19/2024	2:25:46 AM
7	0.00000	1	0.00575	-0.00105			-0.00488	6/19/2024	2:27:03 AM

Figure : 2 (NO3+NO2)



Area = 2.28772 * Conc + 0.01733
Conc = 0.43674 * Area - 0.00739
Correlation Coefficient (r) = 0.99995

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1936176-4	**MS Analysis Date**	: 06/19/24 05:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Nitrate/Nitrite	7.0	4	11.	100					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 05:42
Dup Sample ID	: WG1936176-3	**DUP Analysis Date**	: 06/19/24 05:43

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	7.0	7.0	0	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936176-2	**LCS Analysis Date**	: 06/19/24 03:11
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.00**	**100.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date: 061924

Initals: KAF

Syringe Lot: 20230620

Filter Lot: 18048470A

Cup #:	Sample ID:
1	**ICV NO3 5**
2	**ICV NO2 5**
3	**ICV NO3 0.5**
4	**ICV NO2 0.5**
5	**ICB**
6	**5X DILUTER CHECK**
7	**BLANK NO3**
8	**LCS NO3**
9	**BLANK NO2**
10	**LCS NO2**
11	**WG1936168-1; NO2/315**
12	**WG1936168-2; NO2/315**
13	**WG1936169-1; NO3**
14	**WG1936169-2; NO3**
15	**WG1936170/171-1; NO3**
16	**WG1936170/171-2; NO3**
17	**WG1936172-1; CNO3**
18	**WG1936172-2; CNO3**
19	**WG1936173/176-1; CNO3/317**
20	**WG1936173/176-2; CNO3/317**
21	**L2434175-01**
22	**WG1936169-3; NO3**
23	**WG1936169-4; NO3**
24	**WG1936168-3; NO2**
25	**WG1936168-4; NO2**
26	**L2434273-01**
27	**WG1936169-5; NO3**
28	**WG1936169-6; NO3**
29	**WG1936168-5; NO2**
30	**WG1936168-6; NO2**
31	**L2434274-01**
32	**L2434364-01**
33	**L2434367-01**
34	**L2434367-02**
35	**L2434368-01**
36	**L2434369-01**
37	**L2434372-01**
38	**L2434373-01**
39	**L2434374-01**
40	**L2434159-01**
41	**L2434159-02**
42	**L2434159-03**
43	**L2434159-04**

Comments:

Buffer: NO3NO2_061424_BUFFER

Color: NO3NO2_061824_COLOR

NO3 MS: NO3_061224_200PPM_CAL

NO2 MS: NO2_060424_200PPM_CAL

ICV NO3 5: NO3_061424_5PPM_ICV

ICV NO2 5: NO2_061424_5PPM_ICV

ICV NO3 0.5: NO3_061924_0.5PPM_ICV

ICV NO2 0.5: NO2_061924_0.5PPM_ICV

OOH

DW

GOING OOH

FIELD BLANK

Cup #:	Sample ID:	Comments:
44	**L2434089-01**	
45	**L2434089-02**	
46	**L2434089-03**	
47	**L2434077-01**	
48	**WG1936171-3; NO3**	
49	**WG1936171-4; NO3**	
50	**L2434077-02**	
51	**L2434077-03**	
52	**L2434077-04**	
53	**L2434430-07**	
54	**WG1936170-3; NO3**	
55	**WG1936170-4; NO3**	
56	**L2434430-08**	
57	**L2434430-09**	
58	**L2434430-10**	
59	**L2434430-11**	
60	**L2433407-01**	
61	**L2433770-01**	
62	**WG1936172-3; CNO3**	
63	**WG1936172-4; CNO3**	
64	**L2433770-02**	
65	**WG1936172-5; CNO3**	
66	**WG1936172-6; CNO3**	
67	**L2433770-03**	
68	**L2433770-04**	
69	**L2433770-05**	
70	**L2433770-06**	
71	**L2433770-07**	
72	**L2433770-08**	
73	**L2433770-09**	
74	**L2433770-10**	
75	**L2433770-11**	
76	**L2433770-12**	
77	**L2433770-13**	
78	**L2433770-14**	
79	**L2433770-15**	
80	**L2433770-16**	
81	**L2433770-17**	
82	**L2433770-18**	
83	**L2433770-36**	
84	**l2434185-01a**	
85	**l2434185-02a**	
86	**l2434185-03a**	
87	**l2434185-04a**	
88	**l2434185-05a**	
89	**L2433511-04**	

Cup #:	Sample ID:	Comments:
90	**WG1936173-3; CNO3**	
91	**WG1936173-4; CNO3**	
92	**L2433529-01**	
93	**L2433375-01**	
94	**L2433375-02**	
95	**L2433375-03**	
96	**L2433375-04**	
97	**WG1936176-3; CNO3**	
98	**WG1936176-4; CNO3**	
99	**L2433375-05**	
100	**L2433375-06**	
101	**L2433375-07**	
102	**L2433375-08**	
103	**l2434255-01a**	TRAY 2
104	**WG1936317-3; NO3**	
105	**WG1936317-4; NO3**	
106	**WG1936315-3; NO2**	
107	**WG1936315-4; NO2**	
108	**l2434255-02a**	
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Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-01	**Date Collected**	:	06/13/24 12:30
Client ID	:	EB_06132024	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 03:40
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1936204.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-02	**Date Collected**	:	06/13/24 11:00
Client ID	:	DUP_06132024	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 03:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1936204.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	120	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-03	**Date Collected**	:	06/13/24 08:50
Client ID	:	PZ-5	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 03:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1936204.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	120	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:40
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1936204.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	150	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:40
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1936204.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	130	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-06	**Date Collected**	:	06/13/24 10:30
Client ID	:	MW-12D	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 03:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1936204.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	86.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-07	**Date Collected**	:	06/13/24 11:45
Client ID	:	MW-4S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 03:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1936204.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	13	4.0	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-08	**Date Collected**	:	06/13/24 11:40
Client ID	:	MW-4D2	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 03:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1936204.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	38.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936204-1	**Date Collected**	: NA
Client ID	: WG1936204-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 03:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1936204.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936204-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/19/24 03:40
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1936204.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	120	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936204-4	**Date Collected**	: 06/13/24 14:00
Client ID	: WG1936204-4 DUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/19/24 03:40
Sample Matrix	: WATER	**Dilution Factor**	: 4
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1936204.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	1800	40	12.	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: JUN-20-24 15:00:51

WorkGroup	WG1936204	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	181	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	20-JUN-24 07:40	**Time In**	20-JUN-24 10:46	**Time In**	20-JUN-24 13:00	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	20-JUN-24 09:45	**Time Out**	20-JUN-24 12:32	**Time Out**	20-JUN-24 14:02	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	19-JUN-24 10:05

LCS Lot #	**TrueValue**	**Units**
060524B	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2433303-01	19-JUN-24 03:40	DEB WHELAN	CB	71913377	62.6479	80	62.6518	62.6528	62.6532			48.75	1.3	
L2433303-02	19-JUN-24 03:40	DEB WHELAN	AA3	71913377	67.7971	80	67.8001	67.8004				37.50	1.3	
L2433303-03	19-JUN-24 03:40	DEB WHELAN	E1	71913377	59.5658	80	59.5704	59.5709	59.5716			57.50	1.3	
L2433375-01	19-JUN-24 03:40	DEB WHELAN	OG	71913377	138.4192	100	138.4188	138.4184				-8.00	1	EB
L2433375-02	19-JUN-24 03:40	DEB WHELAN	RZ	71913377	68.8388	80	68.8482	68.8491	68.8504			117.50	1.3	
L2433375-03	19-JUN-24 03:40	DEB WHELAN	BE	71913377	66.6926	80	66.7022	66.7035	66.7046			120.00	1.3	
L2433375-04	19-JUN-24 03:40	DEB WHELAN	X9	71913377	65.78	80	65.792	65.7927	65.793			150.00	1.3	
L2433375-05	19-JUN-24 03:40	DEB WHELAN	CL	71913377	55.3134	80	55.3237	55.3252	55.3253			128.75	1.3	
L2433375-06	19-JUN-24 03:40	DEB WHELAN	EB	71913377	68.946	80	68.9529	68.9529				86.25	1.3	T4
L2433375-07	19-JUN-24 03:40	DEB WHELAN	BQ	71913377	110.7938	80	110.7939	110.7942				1.25	1.3	
L2433375-08	19-JUN-24 03:40	DEB WHELAN	BC	71913377	125.8855	80	125.8885	125.8888				37.50	1.3	
L2433401-01	19-JUN-24 03:40	DEB WHELAN	BJ	71913377	110.8601	80	110.8647	110.8651				57.50	1.3	
L2433401-02	19-JUN-24 03:40	DEB WHELAN	BI	71913377	106.4782	80	106.4955	106.4959				216.25	1.3	
L2433401-03	19-JUN-24 03:40	DEB WHELAN	BZ	71913377	120.4339	80	120.4725	120.4735	120.4734			482.50	1.3	
L2433401-04	19-JUN-24 03:40	DEB WHELAN	BL	71913377	107.87	80	107.8989	107.9003	107.9002			361.25	1.3	
L2433401-05	19-JUN-24 03:40	DEB WHELAN	LC	71913377	143.2218	80	143.2228	143.2243	143.2239			12.50	1.3	
L2433401-06	19-JUN-24 03:40	DEB WHELAN	BH	71913377	132.6243	80	132.6295	132.6324	132.6327			65.00	1.3	
L2433401-07	19-JUN-24 03:40	DEB WHELAN	RG	71913377	137.1326	80	137.1618	137.1651	137.1653			365.00	1.3	
L2433502-02	19-JUN-24 03:40	DEB WHELAN	XX	71913377	144.7729	25	144.8095	144.8134	144.8137			1464.00	4	
L2433824-01	19-JUN-24 03:40	DEB WHELAN	SQ	71913377	139.1227	80	139.2374	139.24	139.2403			1433.75	1.3	
WG1936204-1	19-JUN-24 03:40	DEB WHELAN	EY	71913377	65.061	100	65.0606	65.0608				-4.00	1	T3
WG1936204-2	19-JUN-24 03:40	DEB WHELAN	XB	71913377	71.1004	50	71.1233	71.1234				458.00	2	
WG1936204-3	19-JUN-24 03:40	DEB WHELAN	XO	71913377	64.46	80	64.4694	64.4698				117.50	1.3	
WG1936204-4	19-JUN-24 03:40	DEB WHELAN	ED	71913377	56.369	25	56.4139	56.4143				1796.00	4	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 03:40
Dup Sample ID	: WG1936204-3	**DUP Analysis Date**	: 06/19/24 03:40

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	150	120	22 Q	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/19/24 03:40
Dup Sample ID	: WG1936204-4	**DUP Analysis Date**	: 06/19/24 03:40

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	1500	1800	18 Q	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936204-2	**LCS Analysis Date**	: 06/19/24 03:40
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Solids, Total Dissolved	500.	460.	92.					80-120	10

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-02	**Date Collected**	:	06/13/24 11:00
Client ID	:	DUP_06132024	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 11:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1936381.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	33.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	34.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 12:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1937035.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	16.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-05	**Date Collected**	:	06/13/24 10:35
Client ID	:	MW-12S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 11:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1936381.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	8.1	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-06	**Date Collected**	:	06/13/24 10:30
Client ID	:	MW-12D	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/20/24 12:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1937035.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	14.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-07	**Date Collected**	:	06/13/24 11:45
Client ID	:	MW-4S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/20/24 12:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1937035.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	6.2	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-08	**Date Collected**	:	06/13/24 11:40
Client ID	:	MW-4D2	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/20/24 12:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1937035.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	17.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936381-1	**Date Collected**	: NA
Client ID	: WG1936381-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936381-3	**Date Collected**	: 06/12/24 08:30
Client ID	: WG1936381-3 DUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	5.3	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1937035-1	**Date Collected**	: NA
Client ID	: WG1937035-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 12:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1937035.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.1	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1937035-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/20/24 12:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1937035.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	17.	10	1.4	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;wc3437
LCS;wc3373
Reagent;lot A4072
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Sample Number:_____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml):0.5
Spike Concentration (mg/l):1000

Product: SO4-4500
Curve Calibration Date :06/19/24
Curve Identifier: 6/19/2024
Analysis Analyte: Sulfate
Analysis Date: 6/19/2024 11:00
Preparation Date: 6/19/2024 11:00
Technician: MRW
Work group: WG1936381
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.70
10	0.151	1.0	8.10
20	0.419	1.0	19.5
40	0.921	1.0	40.7

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.023586	-0.04

Correlation Coefficient
0.995832

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.003	0.003	1.954	1	1.0	2.0	Recovery
	ICV	25	25	0	0.433	0.433	20.033	1	1.0	20.0	100%
SAMP	L2431558-01	10	25	0.018	0.431	0.413	19.192	1	2.5	48.0	
SAMP	L2431558-02	2.5	25	0.002	0.297	0.295	14.231	1	10.0	142.3	
SAMP	L2431558-03	2	25	0.003	0.642	0.639	28.695	1	12.5	358.7	
SAMP	L2431558-04	5	25	0.012	0.364	0.352	16.628	1	5.0	83.1	
SAMP	L2431558-05	2.5	25	0.015	0.219	0.204	10.405	1	10.0	104.0	
SAMP	L2431558-13	5	25	0.003	0.411	0.408	18.982	1	5.0	94.9	
SAMP	L2431558-15	25	25	0.163	0.168	0.005	2.038	1	1.0	2.0	FILTERED
SAMP	L2433035-02	25	25	0.018	0.324	0.306	14.693	1	1.0	14.7	
	CCV1	25	25	0	0.431	0.431	19.949	1	1.0	19.9	
	CCB1	25	25	0	0.005	0.005	2.038	1	1.0	2.0	
SAMP	L2433035-03	25	25	0.001	0.087	0.086	5.443	1	1.0	5.4	
SAMP	L2433035-04	25	25	0.049	0.383	0.334	15.871	1	1.0	15.9	
SAMP	L2433035-05	25	25	0	0.332	0.332	15.787	1	1.0	15.8	
SAMP	L2433035-06	10	25	0.005	0.353	0.348	16.459	1	2.5	41.1	
SAMP	L2433035-07	10	25	0.003	0.454	0.451	20.790	1	2.5	52.0	
SAMP	L2433035-08	25	25	0.003	0.378	0.375	17.595	1	1.0	17.6	
SAMP	L2433035-09	25	25	0	0.009	0.009	2.206	1	1.0	2.2	
SAMP	L2433035-10	25	25	0.039	0.358	0.319	15.240	1	1.0	15.2	
SAMP	L2433375-01	25	25	0	0.003	0.003	1.954	1	1.0	2.0	
SAMP	L2433375-02	25	25	0	0.745	0.745	33.152	1	1.0	33.2	
	CCV2	25	25	0	0.427	0.427	19.781	1	1.0	19.8	
	CCB2	25	25	0	0.004	0.004	1.996	1	1.0	2.0	
SAMP	L2433375-03	25	25	0	0.765	0.765	33.993	1	1.0	34.0	
SAMP	L2433375-05	25	25	0	0.15	0.150	8.134	1	1.0	8.1	
	CCV3	25	25	0	0.414	0.414	19.234	1	1.0	19.2	
	CCB3	25	25	0	0.003	0.003	1.954	1	1.0	2.0	
BLANK	WG1936381-1	25	25	0.000	0.003	0.003	1.954	1	1.0	2.0	
DUP	WG1936381-3	25	25	0	0.082	0.082	5.275	1	1.0	5.3	L2433035-03

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1936381-4	12.5	25	0	0.52	0.520	0.000	25	40.0000	47	118
											L2433035-03
LCS	WG1936381-2	25	25	0	0.433	0.433		1	20.0000	20	100

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;wc3437
LCS;wc3373
Reagent;lot A4072
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 06/20/24
Curve Identifier: 6/20/2024
Analysis Analyte: Sulfate
Analysis Date: 6/20/2024 12:00
Preparation Date: 6/20/2024 12:00
Technician: MRW
Work group: WG1937035
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.81
10	0.154	1.0	8.08
20	0.429	1.0	19.3
40	0.960	1.0	40.9

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.024591	-0.0446

Correlation Coefficient
0.995310

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.003	0.003	2.081	1	1.0	2.1	Recovery
	ICV	25	25	0	0.428	0.428	19.202	1	1.0	19.2	96%
SAMP	L2433375-04	25	25	0.012	0.366	0.354	16.221	1	1.0	16.2	
SAMP	L2433375-06	25	25	0.003	0.298	0.295	13.844	1	1.0	13.8	
SAMP	L2433375-07	25	25	0.001	0.106	0.105	6.190	1	1.0	6.2	
SAMP	L2433375-08	25	25	0.001	0.381	0.380	17.268	1	1.0	17.3	
SAMP	L2433502-02	25	25	0.049	0.038	-0.011	1.517	1	1.0	1.5	FILTERED
	CCV	25	25	0	0.422	0.422	18.960	1	1.0	19.0	
	CCB	25	25	0	0.002	0.002	2.041	1	1.0	2.0	
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
BLANK	WG1937035-1	25	25	0.000	0.003	0.003	2.081	1	1.0	2.1	
DUP	WG1937035-3	25	25	0.019	0.402	0.383	17.389	1	1.0	17.4	L2433375-04

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1937035-4	12.5	25	0.01	0.679	0.669	16.200	25	40.0000	58	104
											L2433375-04
LCS	WG1937035-2	25	25	0	0.428	0.428		1	20.0000	19	96

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1936381-4	**MS Analysis Date**	: 06/19/24 11:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**5.4J**	**40**	**47.**	**118**					**55-147**	**14**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1937035-4	**MS Analysis Date**	: 06/20/24 12:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	16.	40	58.	105					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/19/24 11:00
Dup Sample ID	: WG1936381-3	**DUP Analysis Date**	: 06/19/24 11:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	5.4J	5.3J	NC	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 12:00
Dup Sample ID	: WG1937035-3	**DUP Analysis Date**	: 06/20/24 12:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	16.	17.	6	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936381-2	**LCS Analysis Date**	: 06/19/24 11:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**20.0**	**100.**					**90-110**	**14**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1937035-2	**LCS Analysis Date**	: 06/20/24 12:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**19.0**	**95.**					**90-110**	**14**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:14
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	4.40	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	69.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	64.0	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	27.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	22.4	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	27.8	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	22.7	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	27.7	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936582-1	**Date Collected**	: NA
Client ID	: WG1936582-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 16:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936582-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/19/24 15:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240619_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	27.2	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	6.968	pH		-55.64	mV/pH						

Results Editor

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	6.99	pH		6/19/2024 7	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.918 mL	OK
		Consumption 4.2 R3	0.918 mL	OK
		Content R5	18.360 mg/L	OK
		ALK LOW R6	18.360 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	5.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.225 mL	OK
		Consumption 4.2 R3	0.230 mL	OK
		Content R5	4.500 mg/L	OK
		ALK LOW R6	4.400 mg/L	OK
3	WG1936343-1	Sample size	50 mL	
		Potential R4	4.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.021 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1936343-2	Sample size	50 mL	
		Potential R4	11.09 pH	OK
		Consumption 8.3 R1	4.852 mL	OK
		Consumption 4.5 R2	5.184 mL	OK
		Consumption 4.2 R3	5.186 mL	OK
		Content R5	103.680 mg/L	OK
		ALK LOW R6	103.640 mg/L	OK
5	I2432868-01	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.417 mL	OK
		Consumption 4.2 R3	3.449 mL	OK
		Content R5	68.340 mg/L	OK
		ALK LOW R6	67.700 mg/L	OK
6	WG1936343-3	Sample size	50 mL	

Titration report

		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.276 mL	OK
		Consumption 4.2 R3	3.305 mL	OK
		Content R5	65.520 mg/L	OK
		ALK LOW R6	64.940 mg/L	OK
7	WG1936343-4	Sample size	50 mL	
		Potential R4	10.69 pH	OK
		Consumption 8.3 R1	5.977 mL	OK
		Consumption 4.5 R2	8.940 mL	OK
		Consumption 4.2 R3	8.948 mL	OK
		Content R5	178.800 mg/L	OK
		ALK LOW R6	178.640 mg/L	OK
8	I2432868-02	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.451 mL	OK
		Consumption 4.2 R3	3.487 mL	OK
		Content R5	69.020 mg/L	OK
		ALK LOW R6	68.300 mg/L	OK
9	I2432868-03	Sample size	50 mL	
		Potential R4	5.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.384 mL	OK
		Consumption 4.2 R3	3.417 mL	OK
		Content R5	67.680 mg/L	OK
		ALK LOW R6	67.020 mg/L	OK
10	I2432868-04	Sample size	50 mL	
		Potential R4	5.59 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.407 mL	OK
		Consumption 4.2 R3	3.447 mL	OK
		Content R5	68.140 mg/L	OK
		ALK LOW R6	67.340 mg/L	OK
11	I2433034-01	Sample size	50 mL	
		Potential R4	5.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.172 mL	OK
		Consumption 4.2 R3	1.215 mL	OK
		Content R5	23.440 mg/L	OK
		ALK LOW R6	22.580 mg/L	OK
12	I2433034-02	Sample size	50 mL	
		Potential R4	5.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.223 mL	OK
		Consumption 4.2 R3	1.259 mL	OK
		Content R5	24.460 mg/L	OK

Titration report

		ALK LOW R6	23.740 mg/L	OK
13	I2433034-03	Sample size	50 mL	
		Potential R4	5.06 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.574 mL	OK
		Consumption 4.2 R3	0.611 mL	OK
		Content R5	11.480 mg/L	OK
		ALK LOW R6	10.740 mg/L	OK
14	I2433034-04	Sample size	50 mL	
		Potential R4	5.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.584 mL	OK
		Consumption 4.2 R3	0.620 mL	OK
		Content R5	11.680 mg/L	OK
		ALK LOW R6	10.960 mg/L	OK
15	I2433034-05	Sample size	50 mL	
		Potential R4	5.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.142 mL	OK
		Consumption 4.2 R3	2.246 mL	OK
		Content R5	42.840 mg/L	OK
		ALK LOW R6	40.760 mg/L	OK
16	I2433040-01	Sample size	50 mL	
		Potential R4	7.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.961 mL	OK
		Consumption 4.2 R3	2.995 mL	OK
		Content R5	59.220 mg/L	OK
		ALK LOW R6	58.540 mg/L	OK
17	I2433094-01	Sample size	50 mL	
		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.178 mL	OK
		Consumption 4.2 R3	2.197 mL	OK
		Content R5	43.560 mg/L	OK
		ALK LOW R6	43.180 mg/L	OK
18	I2433094-02	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.074 mL	OK
		Consumption 4.2 R3	2.086 mL	OK
		Content R5	41.480 mg/L	OK
		ALK LOW R6	41.240 mg/L	OK
19	I2433105-01	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.088 mL	OK

Titration report

		Consumption 4.2 R3	9.213 mL	OK
		Content R5	181.760 mg/L	OK
		ALK LOW R6	179.260 mg/L	OK
20	I2433105-02	Sample size	50 mL	
		Potential R4	5.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.959 mL	OK
		Consumption 4.2 R3	5.086 mL	OK
		Content R5	99.180 mg/L	OK
		ALK LOW R6	96.640 mg/L	OK
21	I2433105-03	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.088 mL	OK
		Consumption 4.2 R3	8.187 mL	OK
		Content R5	161.760 mg/L	OK
		ALK LOW R6	159.780 mg/L	OK
22	I2433105-04	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.001 mL	OK
		Consumption 4.2 R3	7.086 mL	OK
		Content R5	140.020 mg/L	OK
		ALK LOW R6	138.320 mg/L	OK
23	I2433105-05	Sample size	50 mL	
		Potential R4	5.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.878 mL	OK
		Consumption 4.2 R3	6.992 mL	OK
		Content R5	137.560 mg/L	OK
		ALK LOW R6	135.280 mg/L	OK
24	I2433105-06	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.312 mL	OK
		Consumption 4.2 R3	8.408 mL	OK
		Content R5	166.240 mg/L	OK
		ALK LOW R6	164.320 mg/L	OK
25	I2433105-07	Sample size	50 mL	
		Potential R4	5.41 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.147 mL	OK
		Consumption 4.2 R3	1.175 mL	OK
		Content R5	22.940 mg/L	OK
		ALK LOW R6	22.380 mg/L	OK
26	I2433105-08	Sample size	50 mL	
		Potential R4	5.32 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.549 mL	OK
		Consumption 4.2 R3	0.558 mL	OK
		Content R5	10.980 mg/L	OK
		ALK LOW R6	10.800 mg/L	OK
27	I2433105-09	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.491 mL	OK
		Consumption 4.2 R3	0.507 mL	OK
		Content R5	9.820 mg/L	OK
		ALK LOW R6	9.500 mg/L	OK
28	WG1936449-3	Sample size	50 mL	
		Potential R4	5.04 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.476 mL	OK
		Consumption 4.2 R3	0.493 mL	OK
		Content R5	9.520 mg/L	OK
		ALK LOW R6	9.180 mg/L	OK
29	WG1936449-4	Sample size	50 mL	
		Potential R4	10.52 pH	OK
		Consumption 8.3 R1	5.298 mL	OK
		Consumption 4.5 R2	6.195 mL	OK
		Consumption 4.2 R3	6.207 mL	OK
		Content R5	123.900 mg/L	OK
		ALK LOW R6	123.660 mg/L	OK
30	I2433161-01	Sample size	50 mL	
		Potential R4	5.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.911 mL	OK
		Consumption 4.2 R3	0.930 mL	OK
		Content R5	18.220 mg/L	OK
		ALK LOW R6	17.840 mg/L	OK
31	I2433161-02	Sample size	50 mL	
		Potential R4	5.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.942 mL	OK
		Consumption 4.2 R3	0.968 mL	OK
		Content R5	18.840 mg/L	OK
		ALK LOW R6	18.320 mg/L	OK
32	I2433161-03	Sample size	50 mL	
		Potential R4	5.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.769 mL	OK
		Consumption 4.2 R3	0.792 mL	OK
		Content R5	15.380 mg/L	OK
		ALK LOW R6	14.920 mg/L	OK

Titration report

33	I2433161-04	Sample size	50 mL	
		Potential R4	5.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.797 mL	OK
		Consumption 4.2 R3	0.818 mL	OK
		Content R5	15.940 mg/L	OK
		ALK LOW R6	15.520 mg/L	OK
34	I2433161-05	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.713 mL	OK
		Consumption 4.2 R3	0.725 mL	OK
		Content R5	14.260 mg/L	OK
		ALK LOW R6	14.020 mg/L	OK
35	I2433161-06	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.384 mL	OK
		Consumption 4.2 R3	1.392 mL	OK
		Content R5	27.680 mg/L	OK
		ALK LOW R6	27.520 mg/L	OK
36	I2433161-07	Sample size	50 mL	
		Potential R4	5.71 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.299 mL	OK
		Consumption 4.2 R3	1.306 mL	OK
		Content R5	25.980 mg/L	OK
		ALK LOW R6	25.840 mg/L	OK
37	I2433161-08	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.501 mL	OK
		Consumption 4.2 R3	1.508 mL	OK
		Content R5	30.020 mg/L	OK
		ALK LOW R6	29.880 mg/L	OK
38	I2432890-01	Sample size	50 mL	
		Potential R4	6.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.210 mL	OK
		Consumption 4.2 R3	17.364 mL	OK
		Content R5	344.200 mg/L	OK
		ALK LOW R6	341.120 mg/L	OK
39	WG1936457-3	Sample size	50 mL	
		Potential R4	6.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.147 mL	OK
		Consumption 4.2 R3	17.299 mL	OK

Titration report

		Content R5	342.940 mg/L	OK
		ALK LOW R6	339.900 mg/L	OK
40	WG1936457-4	Sample size	50 mL	
		Potential R4	8.96 pH	OK
		Consumption 8.3 R1	2.997 mL	OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
41	I2432890-02	Sample size	50 mL	
		Potential R4	7.35 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.390 mL	OK
		Consumption 4.2 R3	16.519 mL	OK
		Content R5	327.800 mg/L	OK
		ALK LOW R6	325.220 mg/L	OK
42	I2433264-05	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.953 mL	OK
		Consumption 4.2 R3	12.063 mL	OK
		Content R5	239.060 mg/L	OK
		ALK LOW R6	236.860 mg/L	OK
43	WG1936457-4	Sample size	50 mL	
		Potential R4	9.30 pH	OK
		Consumption 8.3 R1	4.668 mL	OK
		Consumption 4.5 R2	13.879 mL	OK
		Consumption 4.2 R3	13.891 mL	OK
		Content R5	277.580 mg/L	OK
		ALK LOW R6	277.340 mg/L	OK
44	WG1936449-2	Sample size	50 mL	
		Potential R4	11.09 pH	OK
		Consumption 8.3 R1	4.866 mL	OK
		Consumption 4.5 R2	5.182 mL	OK
		Consumption 4.2 R3	5.183 mL	OK
		Content R5	103.640 mg/L	OK
		ALK LOW R6	103.620 mg/L	OK
45	WG1936449-1	Sample size	50 mL	
		Potential R4	5.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.076 mL	OK
		Consumption 4.2 R3	0.082 mL	OK
		Content R5	1.520 mg/L	OK
		ALK LOW R6	1.400 mg/L	OK
46	WG1936457-2	Sample size	50 mL	
		Potential R4	11.08 pH	OK
		Consumption 8.3 R1	4.991 mL	OK

Titration report

		Consumption 4.5 R2	5.305 mL	OK
		Consumption 4.2 R3	5.309 mL	OK
		Content R5	106.100 mg/L	OK
		ALK LOW R6	106.020 mg/L	OK
47	WG1936457-1	Sample size	50 mL	
		Potential R4	4.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.004 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK

Statistics

R1

Mean	NaN mL		
Maximum	5.977 mL	**Minimum**	2.997 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	47	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	17.210 mL	**Minimum**	0.076 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	47	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	17.364 mL	**Minimum**	0.004 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	47	**Samples excluded**	0

R4

Mean	6.29 pH		
Maximum	11.09 pH	**Minimum**	4.43 pH
Standard deviation	1.85 pH	**Rel. standard deviation**	29.468 %
Total samples	47	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	344.200 mg/L	**Minimum**	1.520 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	47	**Samples excluded**	0

R6

Titration report

Mean	NaN mg/L		
Maximum	341.120 mg/L	**Minimum**	1.400 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	47	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/19/2024 8:23:22 AM	SystemInternal	System internal account

Titration report

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.844 mL	OK
		Consumption 4.2 R3	0.850 mL	OK
		Content R5	16.880 mg/L	OK
		ALK LOW R6	16.760 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.210 mL	OK
		Consumption 4.2 R3	0.214 mL	OK
		Content R5	4.200 mg/L	OK
		ALK LOW R6	4.120 mg/L	OK
3	WG1936581-1	Sample size	50 mL	
		Potential R4	4.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1936581-2	Sample size	50 mL	
		Potential R4	11.07 pH	OK
		Consumption 8.3 R1	4.825 mL	OK
		Consumption 4.5 R2	5.147 mL	OK
		Consumption 4.2 R3	5.154 mL	OK
		Content R5	102.940 mg/L	OK
		ALK LOW R6	102.800 mg/L	OK
5	I2431558-11	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.863 mL	OK
		Consumption 4.2 R3	2.932 mL	OK
		Content R5	57.260 mg/L	OK
		ALK LOW R6	55.880 mg/L	OK
6	WG1936581-3	Sample size	50 mL	

Titration report

		Potential R4	5.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.949 mL	OK
		Consumption 4.2 R3	3.012 mL	OK
		Content R5	58.980 mg/L	OK
		ALK LOW R6	57.720 mg/L	OK
7	WG1936581-4	Sample size	50 mL	
		Potential R4	6.13 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.367 mL	OK
		Consumption 4.2 R3	6.447 mL	OK
		Content R5	127.340 mg/L	OK
		ALK LOW R6	125.740 mg/L	OK
8	I2431558-13	Sample size	50 mL	
		Potential R4	5.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.725 mL	OK
		Consumption 4.2 R3	2.785 mL	OK
		Content R5	54.500 mg/L	OK
		ALK LOW R6	53.300 mg/L	OK
9	I2431558-15	Sample size	50 mL	
		Potential R4	6.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
10	I2431858-01	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.502 mL	OK
		Consumption 4.2 R3	12.848 mL	OK
		Content R5	230.040 mg/L	OK
		ALK LOW R6	203.120 mg/L	OK
11	I2431858-03	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.495 mL	OK
		Consumption 4.2 R3	5.558 mL	OK
		Content R5	109.900 mg/L	OK
		ALK LOW R6	108.640 mg/L	OK
12	I2431858-05	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK

Titration report

		ALK LOW R6	NaN mg/L	Not OK
13	I2431858-07	Sample size	50 mL	
		Potential R4	6.03 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
14	I2431858-09	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.155 mL	OK
		Consumption 4.2 R3	10.416 mL	OK
		Content R5	203.100 mg/L	OK
		ALK LOW R6	197.880 mg/L	OK
15	I2433375-01	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.233 mL	OK
		Consumption 4.2 R3	0.246 mL	OK
		Content R5	4.660 mg/L	OK
		ALK LOW R6	4.400 mg/L	OK
16	I2433375-02	Sample size	50 mL	
		Potential R4	5.77 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.460 mL	OK
		Consumption 4.2 R3	3.525 mL	OK
		Content R5	69.200 mg/L	OK
		ALK LOW R6	67.900 mg/L	OK
17	I2433375-03	Sample size	50 mL	
		Potential R4	5.79 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.200 mL	OK
		Consumption 4.2 R3	3.257 mL	OK
		Content R5	64.000 mg/L	OK
		ALK LOW R6	62.860 mg/L	OK
18	I2433375-04	Sample size	50 mL	
		Potential R4	5.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.362 mL	OK
		Consumption 4.2 R3	1.388 mL	OK
		Content R5	27.240 mg/L	OK
		ALK LOW R6	26.720 mg/L	OK
19	WG1936582-3	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.359 mL	OK

Titration report

LabX

		Consumption 4.2 R3	1.383 mL	OK
		Content R5	27.180 mg/L	OK
		ALK LOW R6	26.700 mg/L	OK
20	WG1936582-4	Sample size	50 mL	
		Potential R4	10.02 pH	OK
		Consumption 8.3 R1	3.748 mL	OK
		Consumption 4.5 R2	6.878 mL	OK
		Consumption 4.2 R3	6.885 mL	OK
		Content R5	137.560 mg/L	OK
		ALK LOW R6	137.420 mg/L	OK
21	I2433375-05	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.122 mL	OK
		Consumption 4.2 R3	1.150 mL	OK
		Content R5	22.440 mg/L	OK
		ALK LOW R6	21.880 mg/L	OK
22	I2433375-06	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.389 mL	OK
		Consumption 4.2 R3	1.425 mL	OK
		Content R5	27.780 mg/L	OK
		ALK LOW R6	27.060 mg/L	OK
23	I2433375-07	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.137 mL	OK
		Consumption 4.2 R3	1.149 mL	OK
		Content R5	22.740 mg/L	OK
		ALK LOW R6	22.500 mg/L	OK
24	I2433375-08	Sample size	50 mL	
		Potential R4	5.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.384 mL	OK
		Consumption 4.2 R3	1.403 mL	OK
		Content R5	27.680 mg/L	OK
		ALK LOW R6	27.300 mg/L	OK
25	I2433502-02	Sample size	50 mL	
		Potential R4	6.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
26	I2431558-15 5x	Sample size	50 mL	
		Potential R4	6.55 pH	OK

Titration report

LabX

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.180 mL	OK
		Consumption 4.2 R3	8.526 mL	OK
		Content R5	163.600 mg/L	OK
		ALK LOW R6	156.680 mg/L	OK
27	I2431858-05 5x	Sample size	50 mL	
		Potential R4	5.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.849 mL	OK
		Consumption 4.2 R3	5.401 mL	OK
		Content R5	96.980 mg/L	OK
		ALK LOW R6	85.940 mg/L	OK
28	I2431858-07 5x	Sample size	50 mL	
		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.005 mL	OK
		Consumption 4.2 R3	5.563 mL	OK
		Content R5	100.100 mg/L	OK
		ALK LOW R6	88.940 mg/L	OK
29	I2433502-02 5x	Sample size	50 mL	
		Potential R4	6.27 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.794 mL	OK
		Consumption 4.2 R3	18.080 mL	OK
		Content R5	355.880 mg/L	OK
		ALK LOW R6	350.160 mg/L	OK
30	WG1936582-2	Sample size	50 mL	
		Potential R4	11.18 pH	OK
		Consumption 8.3 R1	4.771 mL	OK
		Consumption 4.5 R2	5.060 mL	OK
		Consumption 4.2 R3	5.061 mL	OK
		Content R5	101.200 mg/L	OK
		ALK LOW R6	101.180 mg/L	OK
31	WG1936582-1	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.030 mL	OK
		Consumption 4.2 R3	0.055 mL	OK
		Content R5	0.600 mg/L	OK
		ALK LOW R6	0.100 mg/L	OK
32	CCV	Sample size	50 mL	
		Potential R4	11.17 pH	OK
		Consumption 8.3 R1	4.778 mL	OK
		Consumption 4.5 R2	5.060 mL	OK
		Consumption 4.2 R3	5.064 mL	OK
		Content R5	101.200 mg/L	OK
		ALK LOW R6	101.120 mg/L	OK

Titration report

33 CCB

Sample size	50 mL	
Potential R4	8.12 pH	OK
Consumption 8.3 R1	0.001 mL	OK
Consumption 4.5 R2	0.410 mL	OK
Consumption 4.2 R3	0.418 mL	OK
Content R5	8.200 mg/L	OK
ALK LOW R6	8.040 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	4.825 mL	**Minimum**	0.001 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	33	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	17.794 mL	**Minimum**	0.030 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	33	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	18.080 mL	**Minimum**	0.055 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	33	**Samples excluded**	0

R4

Mean	6.48 pH		
Maximum	11.18 pH	**Minimum**	4.24 pH
Standard deviation	1.79 pH	**Rel. standard deviation**	27.557 %
Total samples	33	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	355.880 mg/L	**Minimum**	0.600 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	33	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	350.160 mg/L	**Minimum**	0.100 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %

Titration report

Total samples	33	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/19/2024 2:09:09 PM	SystemInternal	System internal account

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 15:20
Dup Sample ID	: WG1936582-3	**DUP Analysis Date**	: 06/19/24 15:22

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	27.2	27.2	0	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240619	LCS 7.0	6.99	INT:	MKT
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	RINSE	42	l2433264-05
2	RINSE	43	MS 2X
3	BLANK	44	CCV
4	LCS	45	CCB
5	l2432868-01	46	CCV
6	DUP	47	CCB
7	MS		
8	l2432868-02	1	Rinse,MKT
9	l2432868-03	2	Rinse,MKT
10	l2432868-04	3	WG1936581-1
11	l2433034-01	4	WG1936581-2
12	l2433034-02	5	l2431558-11
13	l2433034-03	6	WG1936581-3
14	l2433034-04	7	WG1936581-4
15	l2433034-05	8	l2431558-13
16	l2433040-01	9	l2431558-15
17	l2433094-01	10	l2431858-01
18	l2433094-02	11	l2431858-03
19	l2433105-01	12	l2431858-05
20	l2433105-02	13	l2431858-07
21	l2433105-03	14	l2431858-09
22	l2433105-04	15	l2433375-01
23	l2433105-05	16	l2433375-02
24	l2433105-06	17	l2433375-03
25	l2433105-07	18	l2433375-04
26	l2433105-08	19	WG1936582-3
27	l2433105-09	20	WG1936582-4
28	DUP	21	l2433375-05
29	MS	22	l2433375-06
30	l2433161-01	23	l2433375-07
31	l2433161-02	24	l2433375-08
32	l2433161-03	25	l2433502-02
33	l2433161-04	26	l2431558-15 5x
34	l2433161-05	27	l2431858-05 5x
35	l2433161-06	28	l2431858-07 5x
36	l2433161-07	29	l2433502-02 5x
37	l2433161-08	30	WG1936582-2
38	l2432890-01	31	WG1936582-1
39	DUP	32	CCV
40	MS	33	CCB
41	l2432890-02		

Chloride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:44
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240618-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240618-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	3.6	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-03	**Date Collected**	:	06/13/24 08:50
Client ID	:	PZ-5	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/18/24 16:45
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240618-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	3.6	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240618-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	29.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240618-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	46.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240618-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	17.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-07	**Date Collected**	:	06/13/24 11:45
Client ID	:	MW-4S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/18/24 16:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240618-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	11.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-08	**Date Collected**	:	06/13/24 11:40
Client ID	:	MW-4D2	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/18/24 17:45
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240618-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	12.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935895-1	**Date Collected**	: NA
Client ID	: WG1935895-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 15:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240618-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935895-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/18/24 16:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240618-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	27.	1.0	0.89	

Sample Raw Data

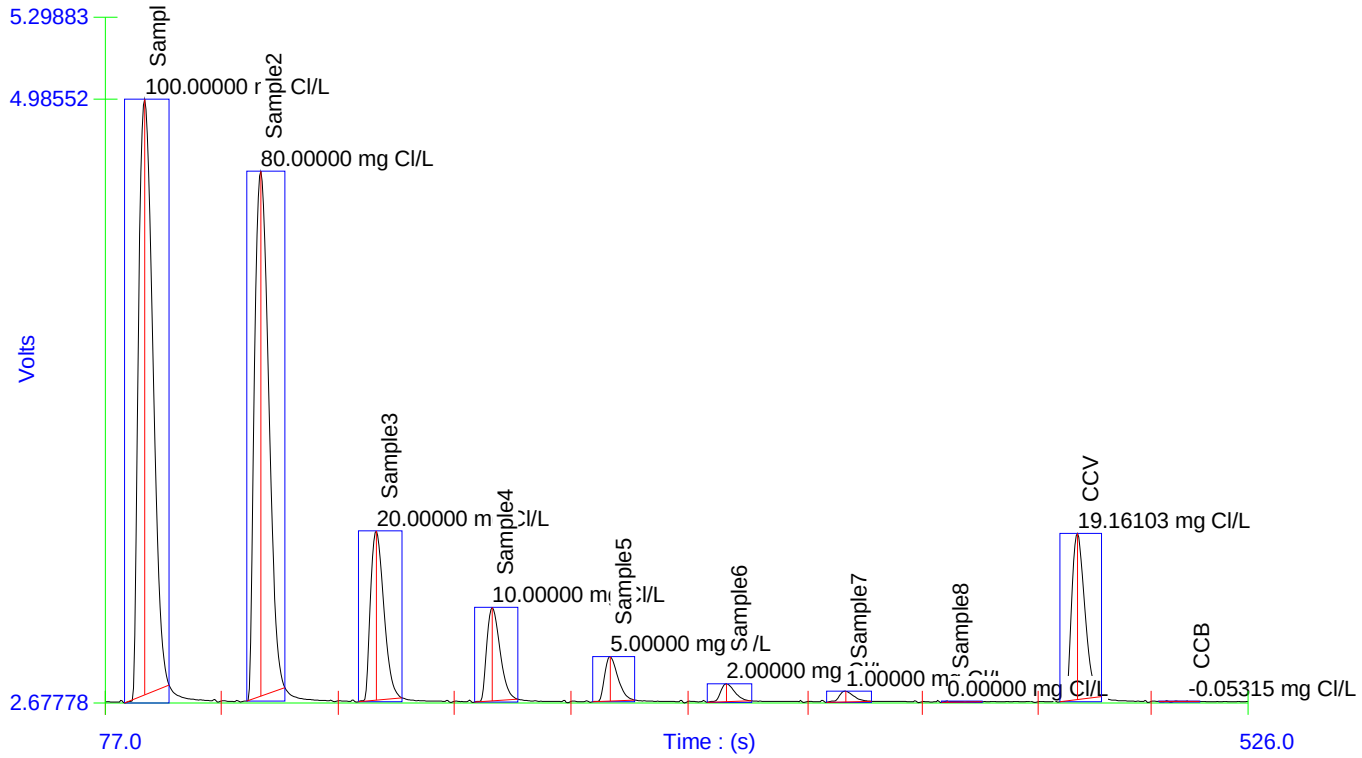
Author: Date : 6/18/2024

Original Run Filename: OM_6-18-2024_03-38-52PM.OMN Created: 6/18/2024 3:38:52 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_6-18-2024_03-38-52PM.OMN Last Modified: 6/18/2024 4:00:03 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

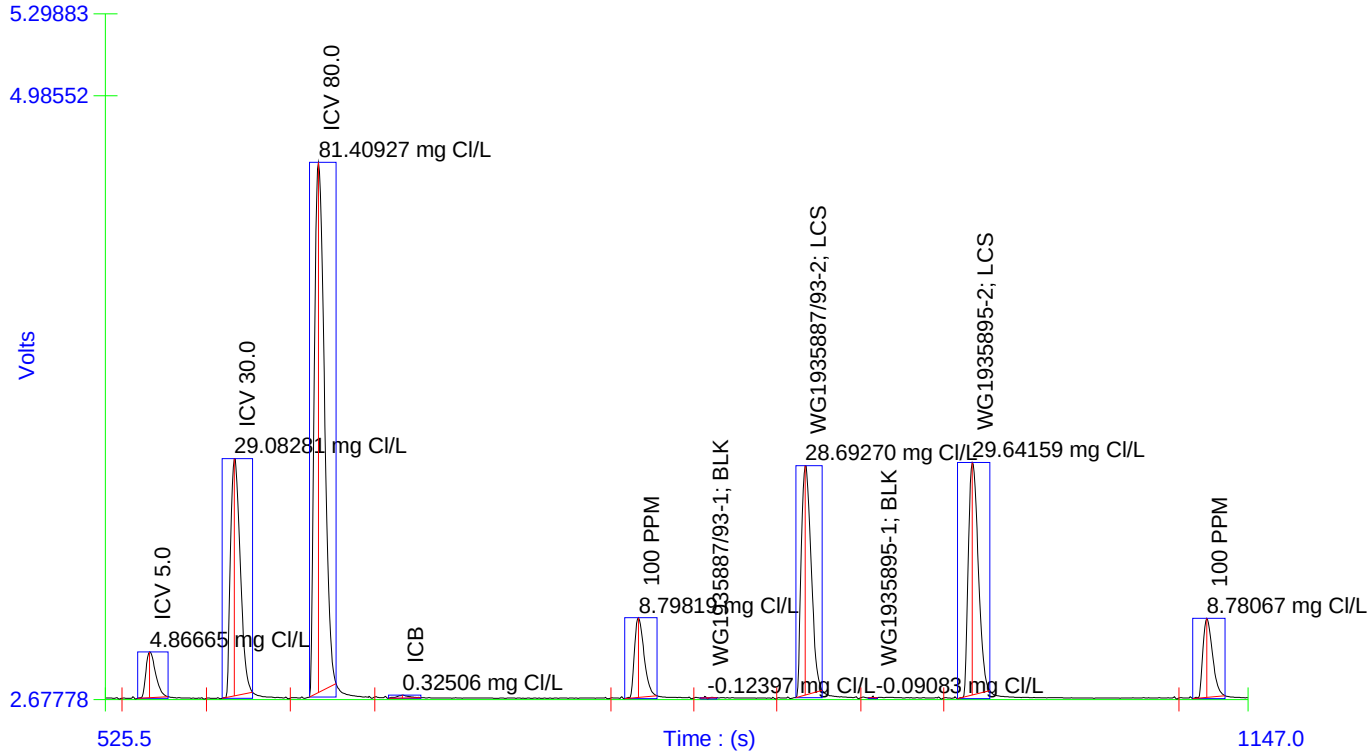
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
Sample1	1	S1	100.00000				
Sample2	1	S2	80.00000				
Sample3	1	S3	20.00000				
Sample4	1	S4	10.00000				
Sample5	1	S5	5.00000				
Sample6	1	S6	2.00000				
Sample7	1	S7	1.00000				
Sample8	1	S9	0.00000				
CCV	1	S3	19.16103				
		Known Conc:	20.00000				
		Calibration:	Table/Fig. : 1				
CCB	1	S9	-0.05315				
		Known Conc:	0.00000				
ICV 5.0	1	1	4.86665				97%
ICV 30.0	1	2	29.08281				97%
ICV 80.0	1	3	81.40927				102%
ICB	1	4	0.32506				
~~100 PPM~~	~~1~~	~~5~~	~~87.98193~~	~~10.00~~			
WG1935887/93-1; BLK	1	6	-0.12397				
WG1935887/93-2; LCS	1	7	28.69270				96%
WG1935895-1; BLK	1	8	-0.09083				
WG1935895-2; LCS	1	9	29.64159				99%
~~100 PPM~~	~~1~~	~~5~~	~~87.80674~~	~~10.00~~			
CCV	1	S3	19.57810				
		Known Conc:	20.00000				
CCB	1	S9	-0.10787				
		Known Conc:	0.00000				

Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 1 / 3



Channel 1 (Chloride) - Set: 2 / 3



Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 3 / 3

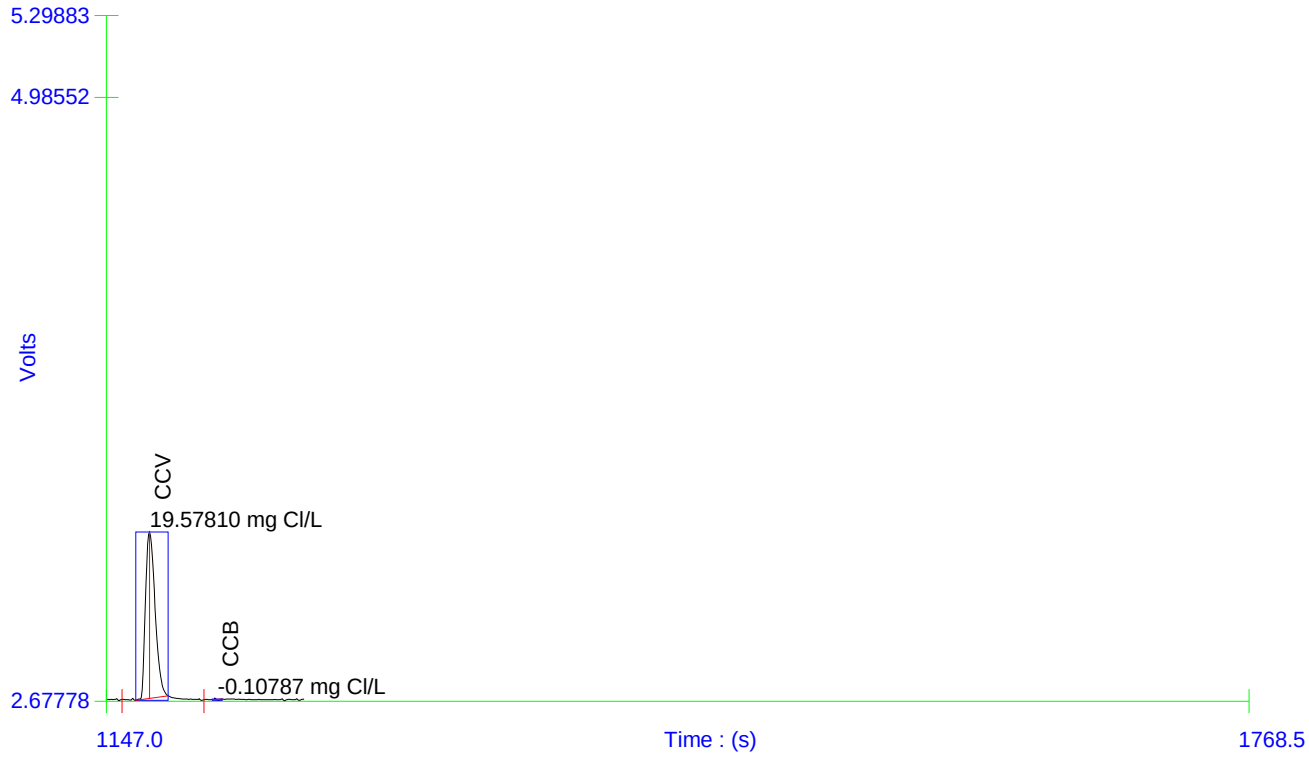
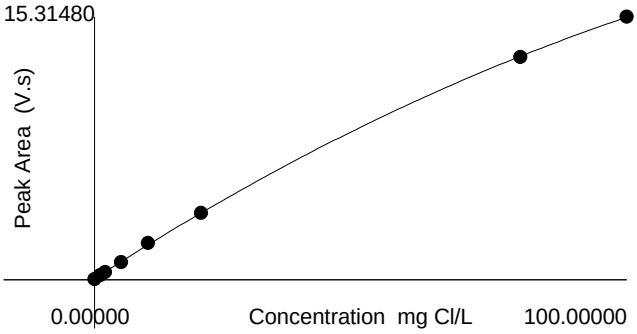


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.31480	2.27618	0.0	-0.2	99.68304	6/18/2024	3:40:12 PM
2	80.00000	1	12.96409	2.00795	0.0	0.4	80.47372	6/18/2024	3:40:58 PM
3	20.00000	1	3.89179	0.64605	0.0	-0.1	19.59984	6/18/2024	3:41:44 PM
4	10.00000	1	2.13182	0.35760	0.0	-5.2	10.23038	6/18/2024	3:42:30 PM
5	5.00000	1	1.02385	0.17044	0.0	3.4	4.73862	6/18/2024	3:43:16 PM
6	2.00000	1	0.44419	0.06878	0.0	5.0	1.99067	6/18/2024	3:44:02 PM
7	1.00000	1	0.26838	0.04089	0.0	0.1	1.17421	6/18/2024	3:44:49 PM
8	0.00000	1	0.03651	0.00455			0.10952	6/18/2024	3:45:34 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00048 * Conc^2 + 0.20059 * Conc + 0.06853
Conc = 0.12797 * Area^2 + 4.55276 * Area - 0.05687
Correlation Coefficient (r) = 0.99997

Weighting : None

Author: Date : 6/18/2024

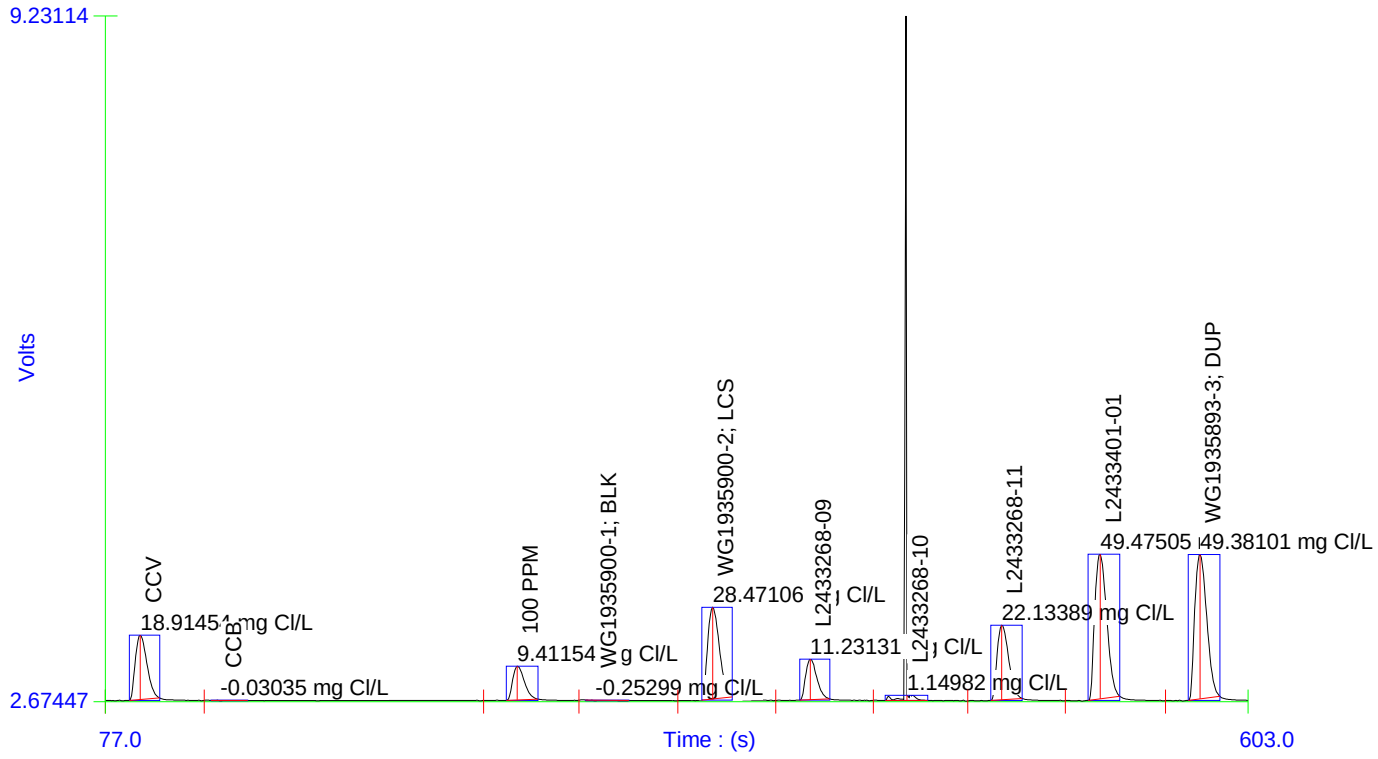
Original Run Filename: OM_6-18-2024_04-08-31PM.OMN Created: 6/18/2024 4:08:31 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_6-18-2024_04-08-31PM.OMN Last Modified: 6/18/2024 6:18:20 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
CCV	1	S3	18.91454				
	Known Conc:		20.00000				
CCB	1	S9	-0.03035				
	Known Conc:		0.00000				
100 PPM	1	5	94.11539	10.00			94%
WG1935900-1; BLK	1	10	-0.25299				
WG1935900-2; LCS	1	11	28.47106				95%
L2433268-09	1	12	11.23131				
L2433268-10	1	13	1.14982				
L2433268-11	1	14	22.13389				
L2433401-01	1	15	49.47505				
WG1935893-3; DUP	1	16	49.38101				
WG1935893-4; MS	1	17	67.90580				
L2433401-02	1	18	17.77590	10.00			
CCV	1	S3	19.78889				
	Known Conc:		20.00000				
CCB	1	S9	0.11258				
	Known Conc:		0.00000				
L2433401-03	1	19	153.75534				
L2433401-04	1	20	73.35595				
L2433401-05	1	21	2.32901				
L2433401-06	1	22	56.66135				
L2433401-07	1	23	129.43443				
L2433268-01	1	24	176.74272				
WG1935887-3; DUP	1	25	175.53882				
WG1935887-4; MS	1	26	186.02612				
L2433268-02	1	27	72.97922				
L2433268-03	1	28	178.40865	10.00			
CCV	1	S3	19.50542				
	Known Conc:		20.00000				
CCB	1	S9	0.11448				
	Known Conc:		0.00000				
L2433268-04	1	29	3.44910				
L2433268-05	1	30	3.02076				
L2433268-06	1	31	16.76349				
L2433268-07	1	32	148.25618				
L2433268-08	1	33	142.75771				
L2433498-01	1	34	392.79443				
L2433498-09	1	35	369.53256				
L2433224-01	1	36	14.68379				
L2433226-01	1	37	5.24302				
L2433227-01	1	38	4.67302	10.00			
CCV	1	S3	19.21111				
	Known Conc:		20.00000				
CCB	1	S9	0.04077				
	Known Conc:		0.00000				
L2433375-01	1	39	0.42638				
L2433375-02	1	40	3.60959				
L2433375-03	1	41	3.63673				
WG1935895-3; DUP	1	42	27.02474				
WG1935895-4; MS	1	43	46.32274				
L2433375-04	1	44	28.82133				
L2433375-05	1	45	46.55228				
L2433375-06	1	46	16.88155				
L2433375-07	1	47	11.48824				
L2433375-08	1	48	10.26711	10.00			
CCV	1	S3	19.21277				
	Known Conc:		20.00000				

CCB	1	S9	0.06138			
	Known Conc:		0.00000			
L2433452-01	1	49	74.63528			
L2433452-02	1	50	14.26810			
L2433452-03	1	51	109.74947			
L2433452-04	1	52	112.57750			
L2433502-02	1	53	70.36819			
L2433529-01	1	54	79.40385			
L2433474-01	1	55	274.72183			
WG1935900-3; DUP	1	56	275.21542			
WG1935900-4; MS	1	57	281.41504			
L2433474-02	1	58	154.21732	10.00		
CCV	1	S3	19.01441			
	Known Conc:		20.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S9	0.14257			
	Known Conc:		0.00000			
L2433474-03	1	59	182.71295			
L2433474-04	1	60	288.24164			
L2433474-05	1	61	103.69834			
L2433474-06	1	62	333.90222			
L2433474-07	1	63	292.91690			
L2433634-01	1	64	145.84677			
L2433634-02	1	65	211.01518			
L2433654-01	1	66	46.70431			
L2433656-01	1	67	27.47032			
WG1936056-1; BLK	1	68	0.25569			
CCV	1	S3	19.13099			
	Known Conc:		20.00000			
CCB	1	S9	-0.14288			
	Known Conc:		0.00000			
WG1936056-2; LCS	1	69	29.05853			97%
L2433495-09	1	70	6.22932			
L2433495-11	1	71	6.25365			
L2433495-13	1	72	7.08666			
WG1936056-3; DUP	1	73	6.93978			
WG1936056-4; MS	1	74	27.81905			
L2433268-10	1	13	20.15837			
L2433401-03	1	19	170.92719	10.00		
L2433401-02	1	18	21.67320			
L2433401-04	1	20	72.35841			
CCV	1	S3	19.12985			
	Known Conc:		20.00000			
CCB	1	S9	0.11447			
	Known Conc:		0.00000			
L2433401-07	1	23	139.73880	10.00		
L2433268-01	1	24	212.58156	10.00		
WG1935887-3; DUP	1	25	212.19583	10.00		
WG1935887-4; MS	1	26	227.97574	10.00		
L2433268-02	1	27	72.56447			
L2433268-07	1	32	155.50575	10.00		
L2433268-08	1	33	159.35312	10.00		
L2433498-01	1	34	1001.20612	10.00		
L2433498-09	1	35	835.50183	10.00		
L2433227-01	1	38	5.12950			
CCV	1	S3	19.17871			
	Known Conc:		20.00000			
CCB	1	S9	0.13388			
	Known Conc:		0.00000			
L2433224-01	1	36	12.08299			
L2433375-08	1	48	12.15278			
L2433452-03	1	51	110.51883	10.00		
L2433452-04	1	52	108.11246	10.00		
L2433502-02	1	53	70.91137			
L2433474-01	1	55	433.39264	10.00		
WG1935900-3; DUP	1	56	436.36081	10.00		
WG1935900-4; MS	1	57	454.65643	10.00		
L2433474-03	1	59	214.48846	10.00		

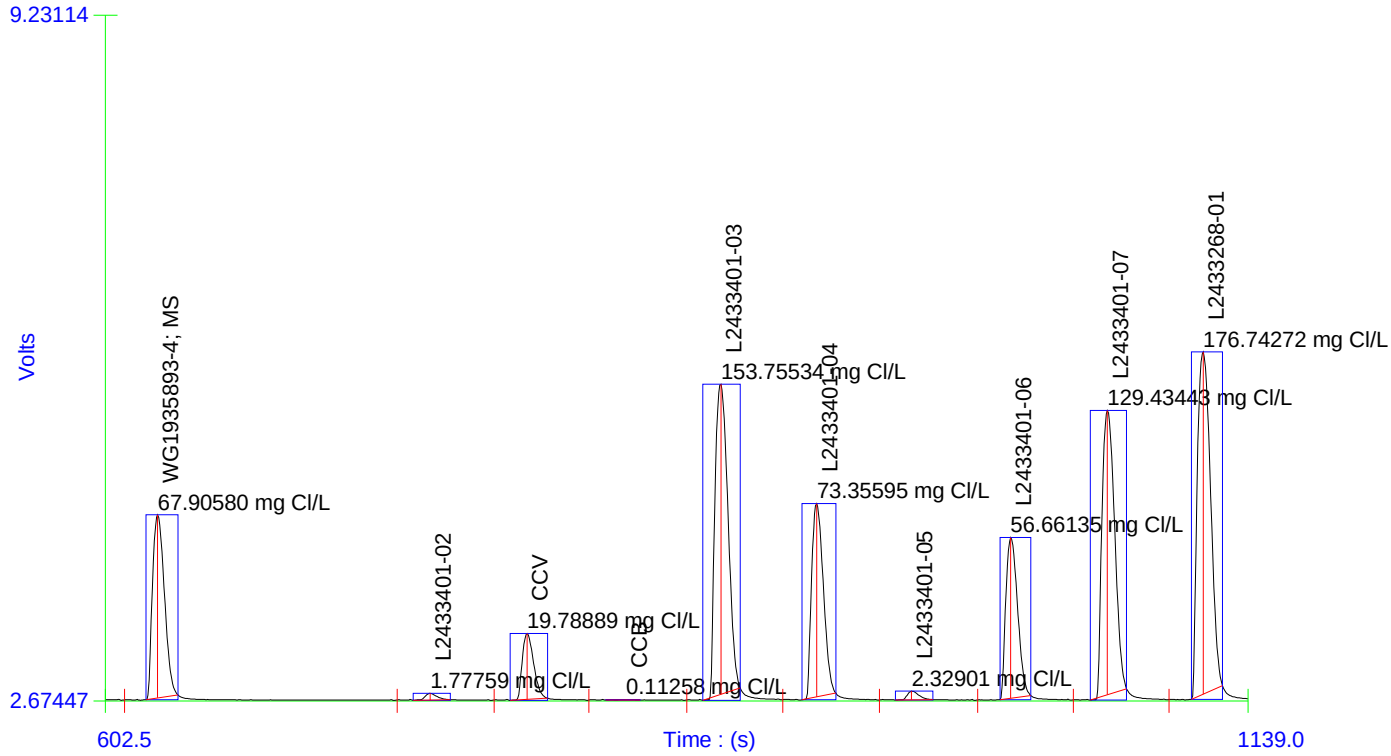
L2433474-04	1	60	477.47678	10.00		
CCV	1	S3	19.24940			
	Known Conc:		20.00000			
CCB	1	S9	-0.04341			
	Known Conc:		0.00000			
L2433474-05	1	61	100.55371	10.00		
L2433474-06	1	62	644.91937	10.00		
L2433474-07	1	63	481.40369	10.00		
L2433634-01	1	64	158.52513	10.00		
L2433634-02	1	65	279.25061	10.00		
L2433498-01	1	34	915.47443	100.00		
CCV	1	S3	20.08334			
	Known Conc:		20.00000			
CCB	1	S9	0.16688			
	Known Conc:		0.00000			

Channel 1 (Chloride) - Set: 1 / 12

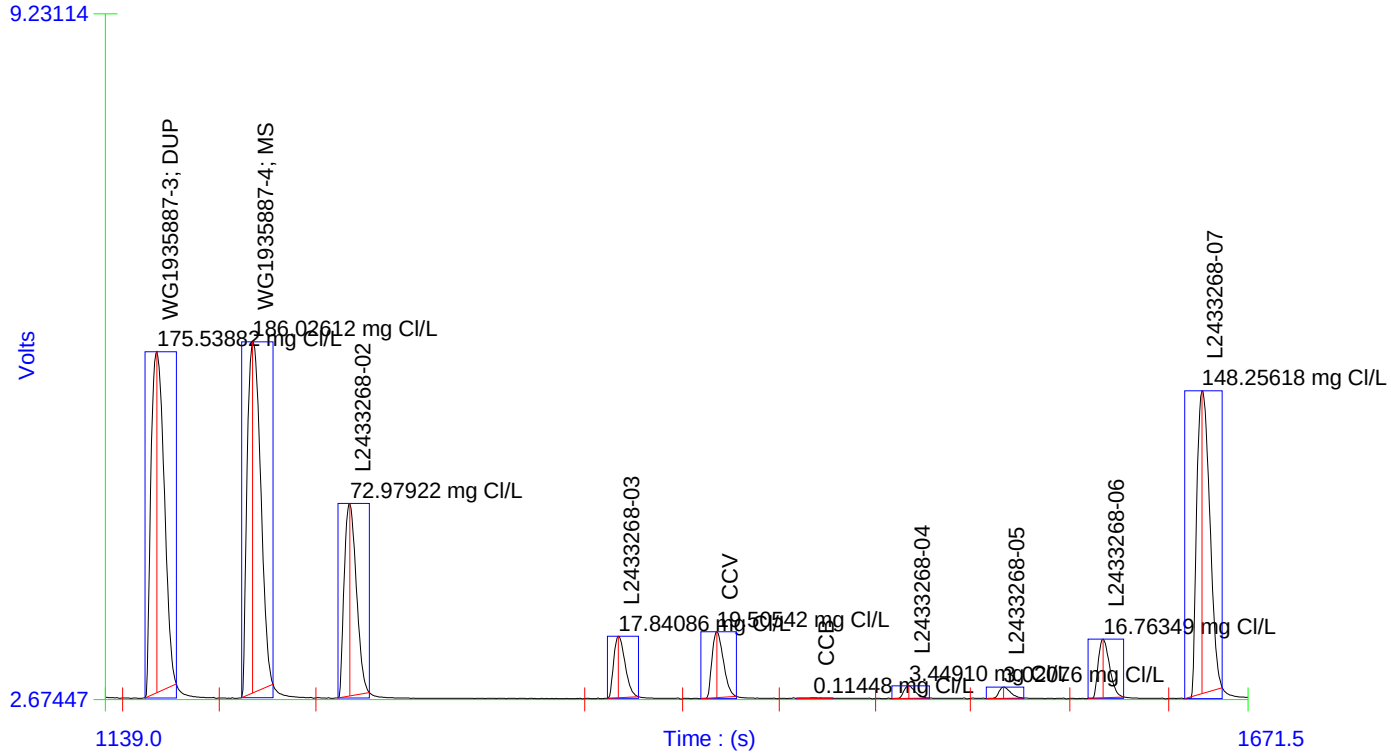


Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 2 / 12

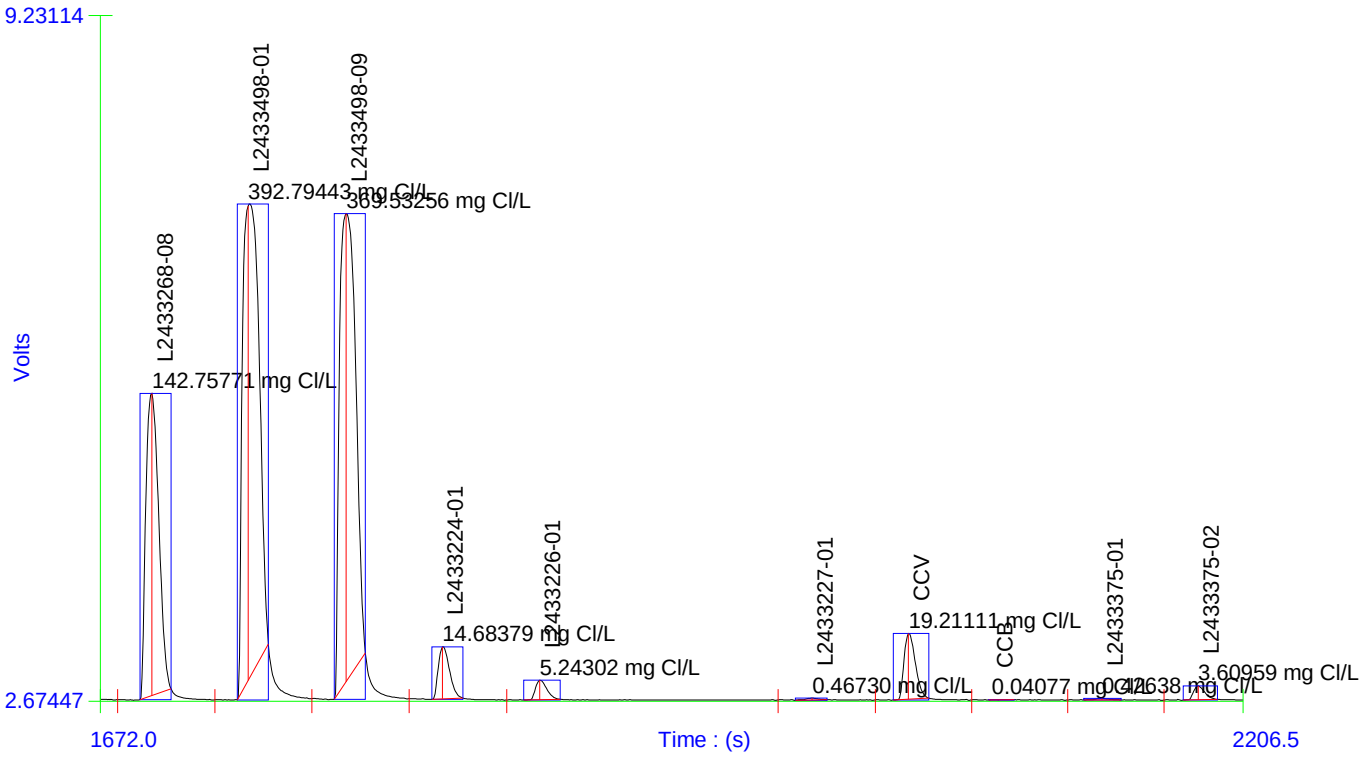


Channel 1 (Chloride) - Set: 3 / 12



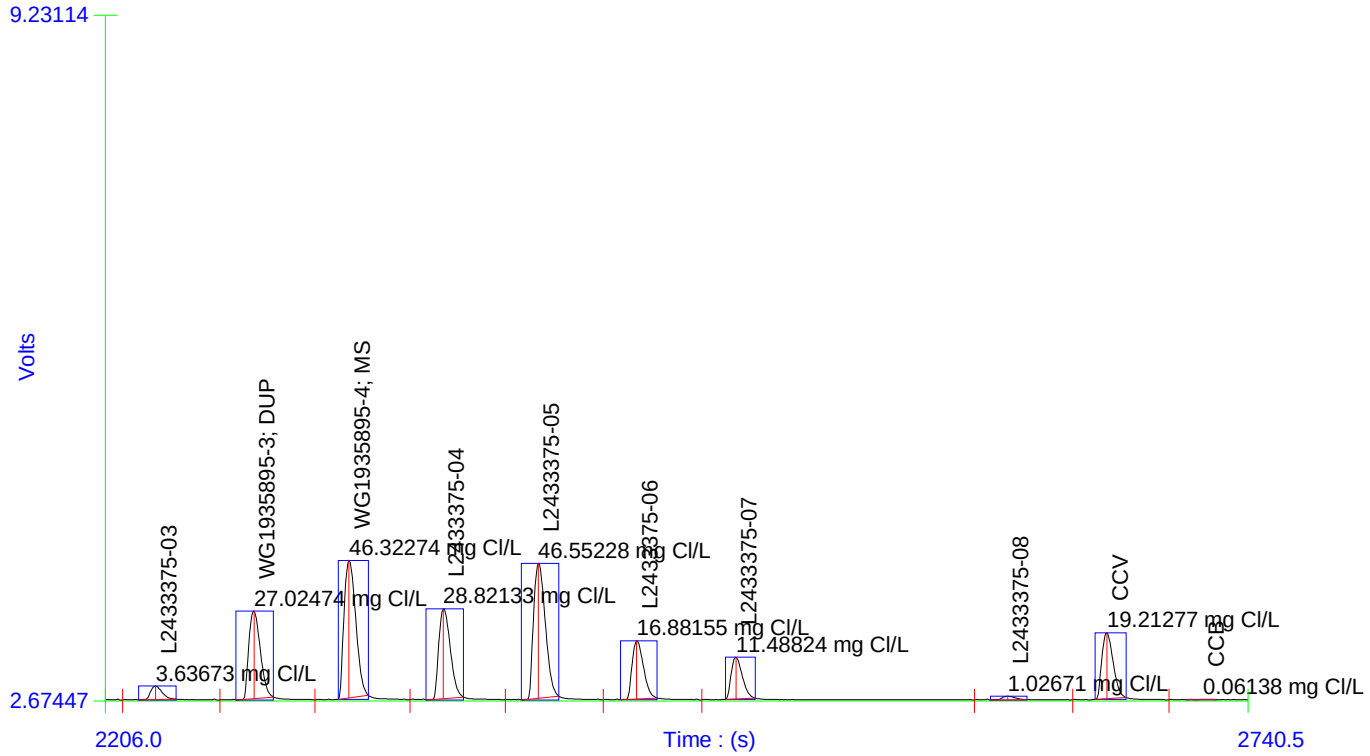
Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 4 / 12

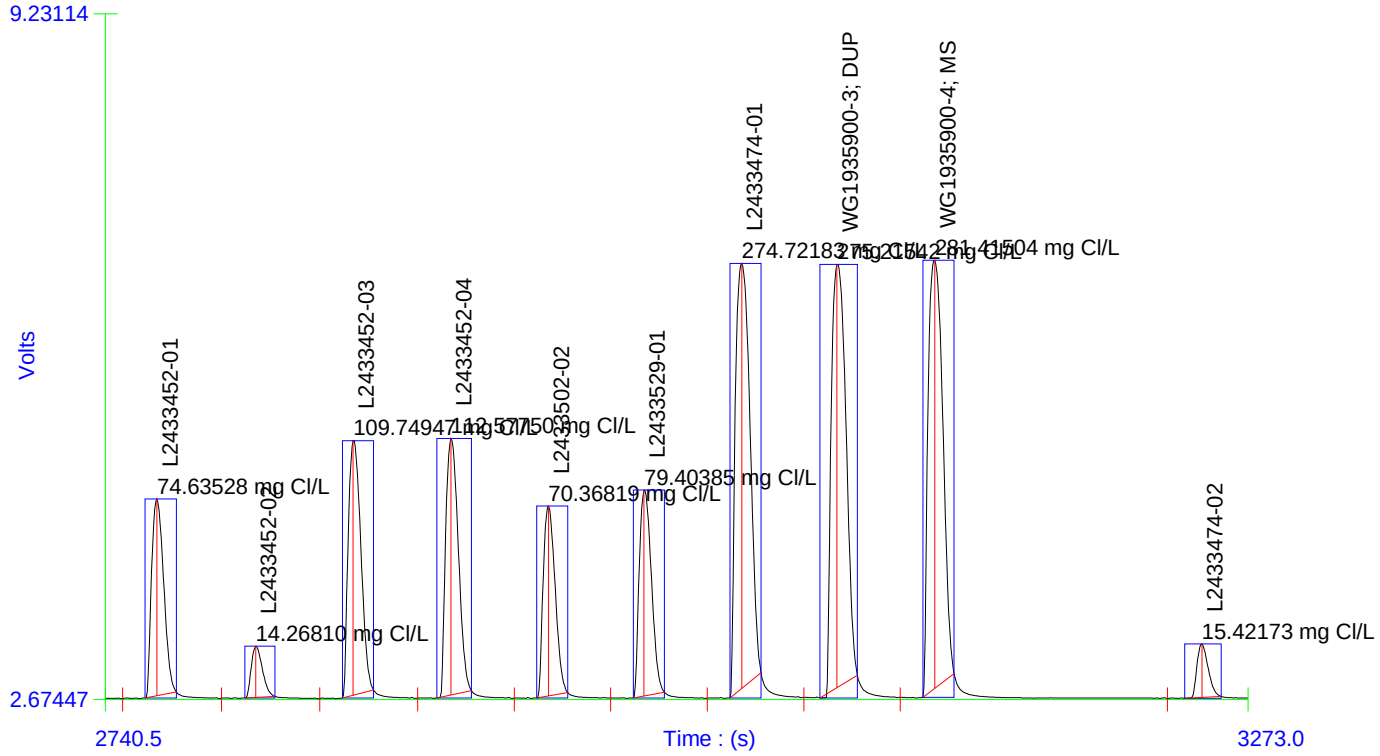


Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 5 / 12

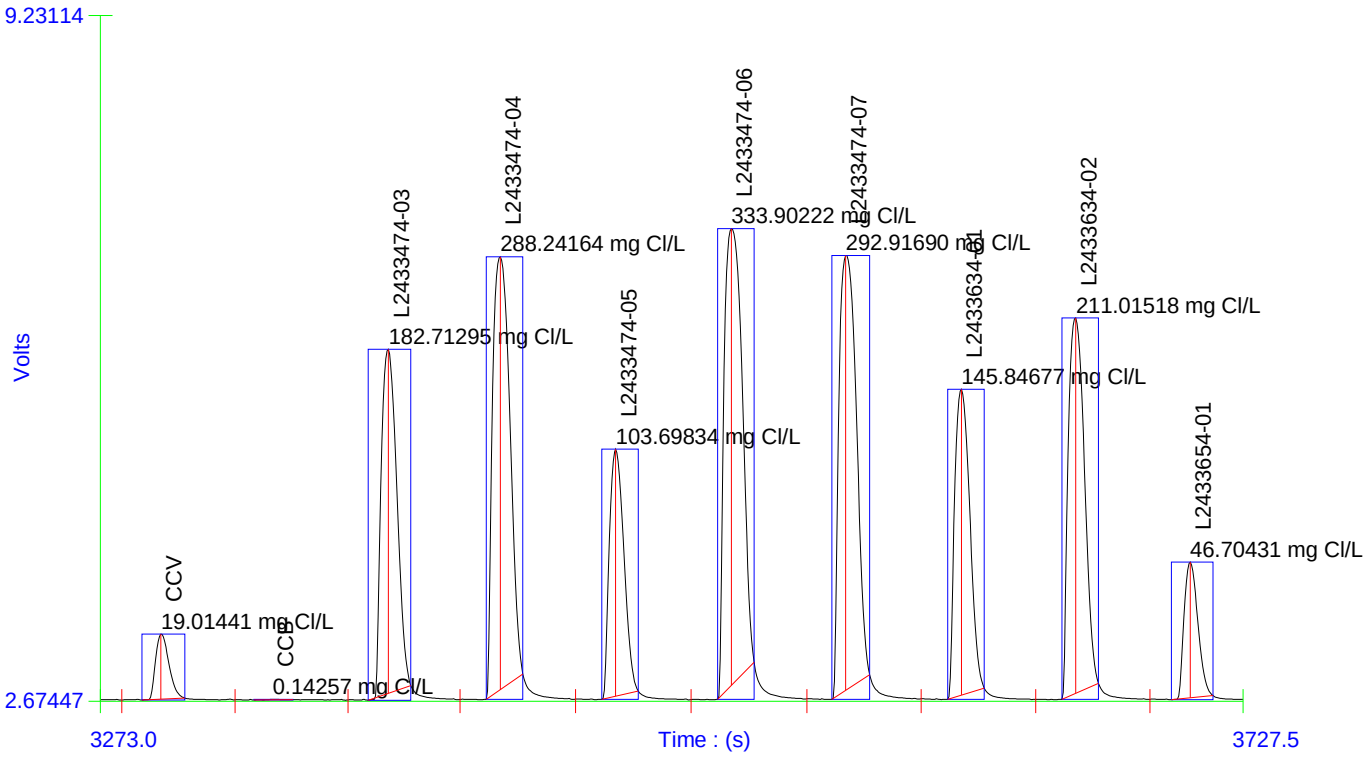


Channel 1 (Chloride) - Set: 6 / 12



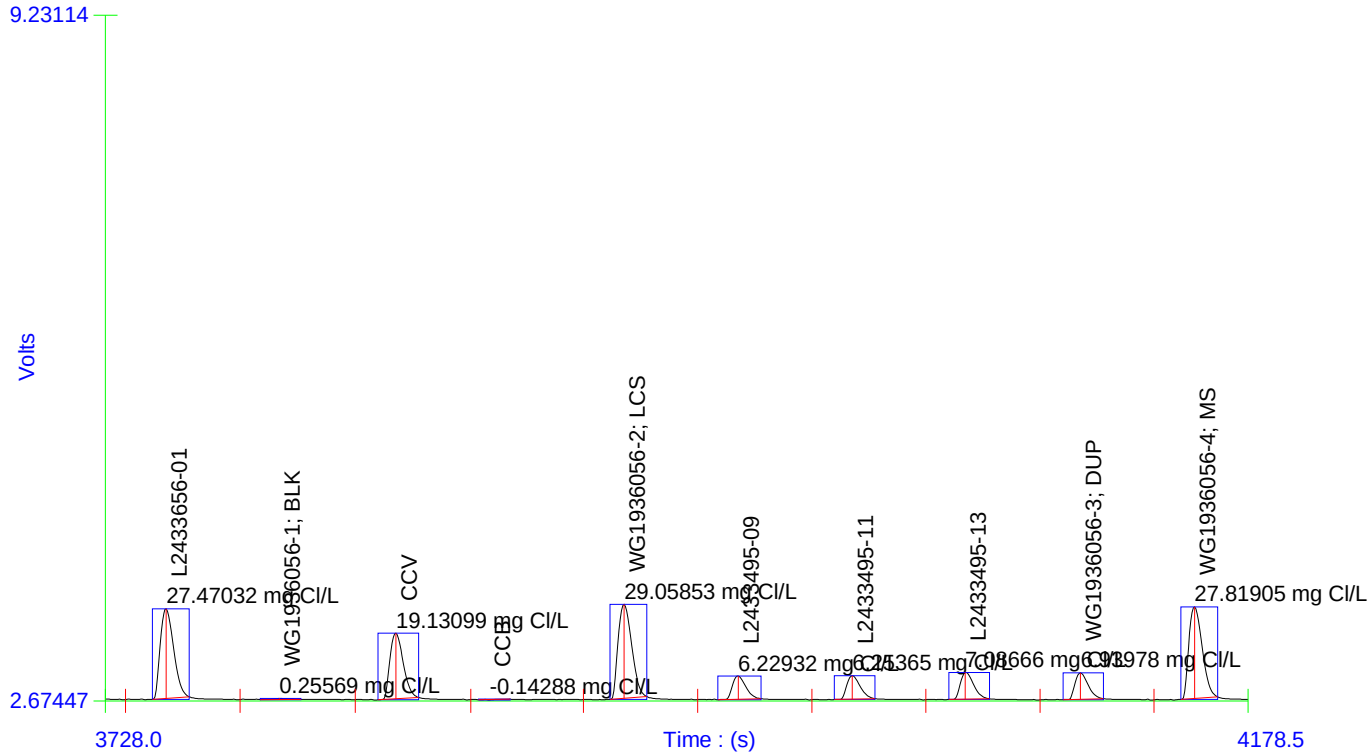
Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 7 / 12

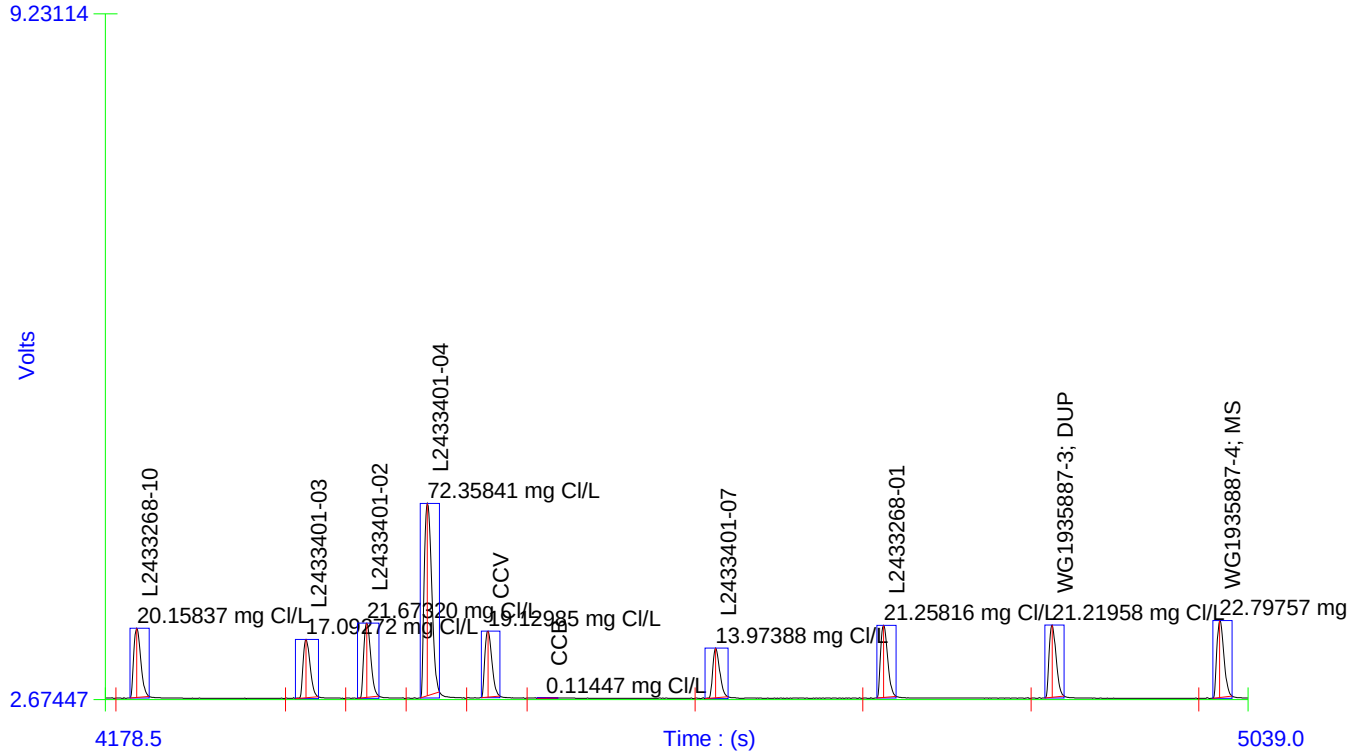


Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 8 / 12

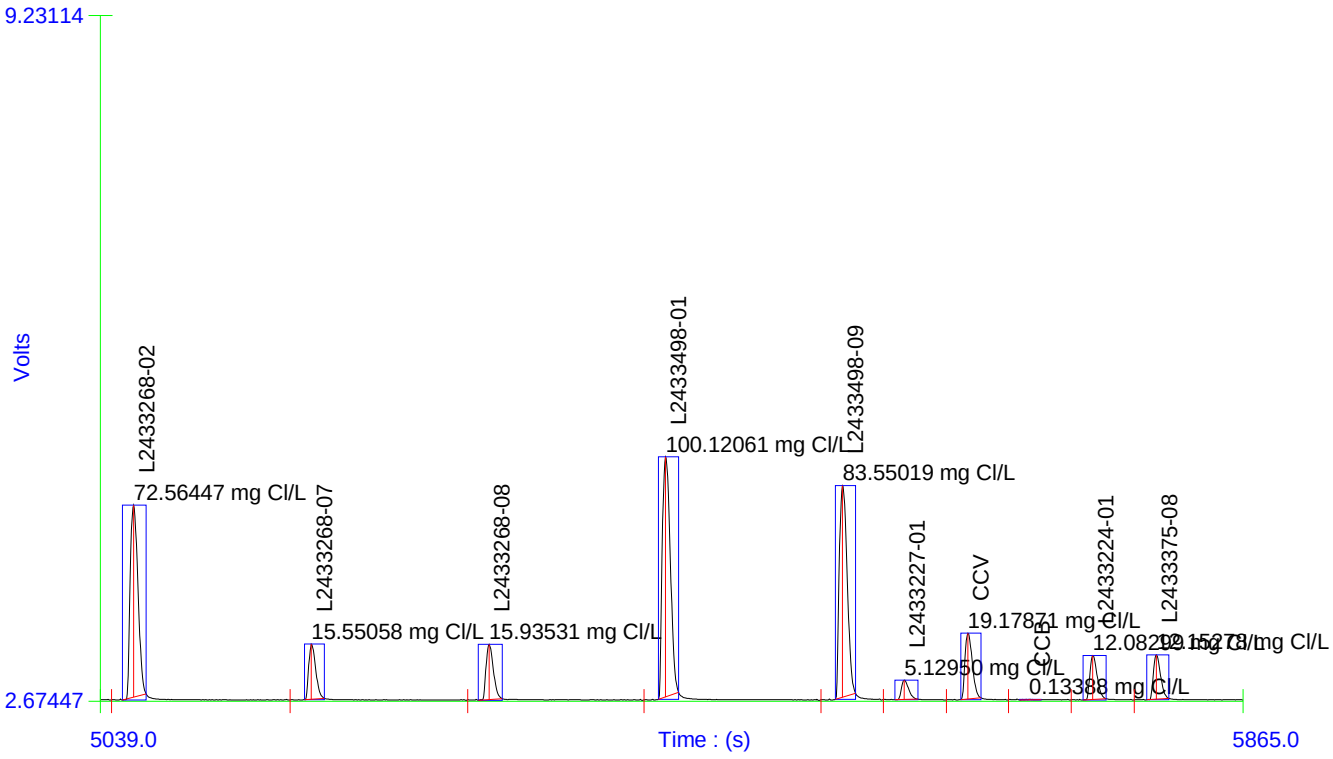


Channel 1 (Chloride) - Set: 9 / 12



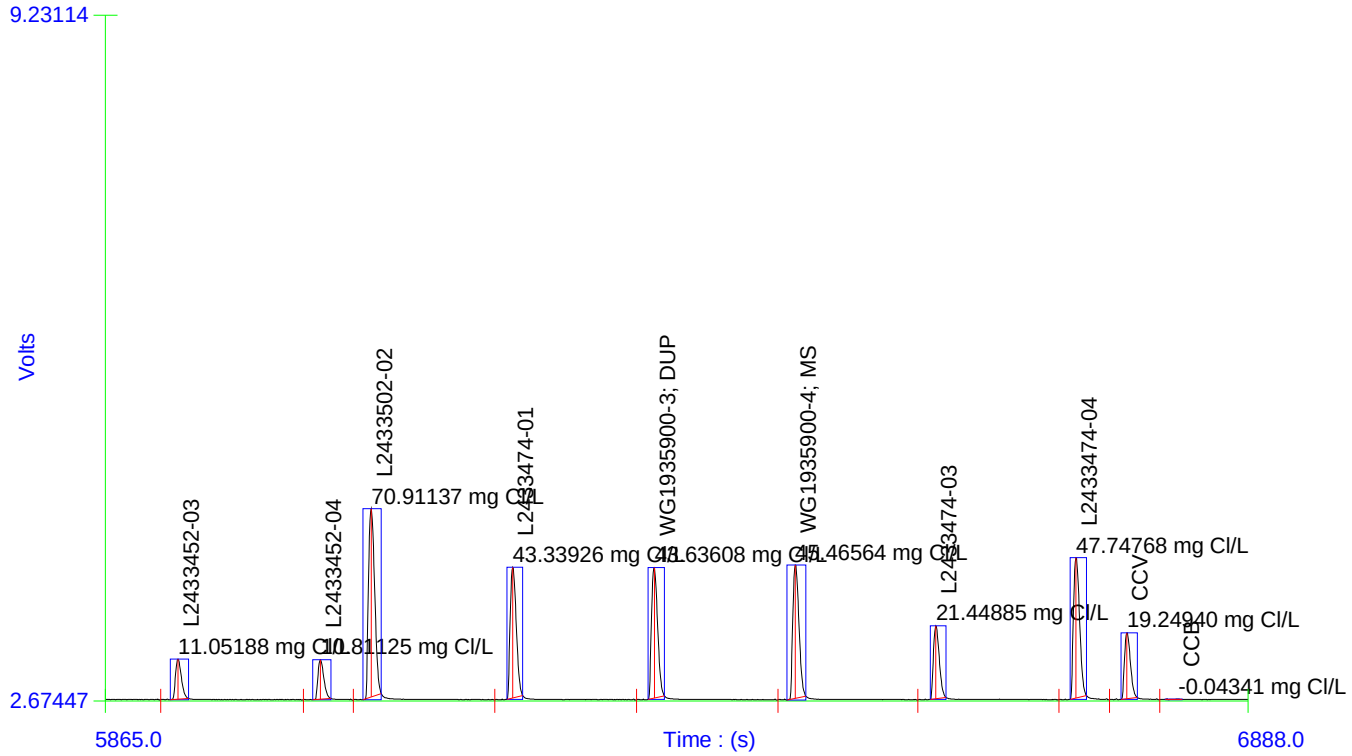
Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 10 / 12



Author: Date : 6/18/2024

Channel 1 (Chloride) - Set: 11 / 12



Channel 1 (Chloride) - Set: 12 / 12

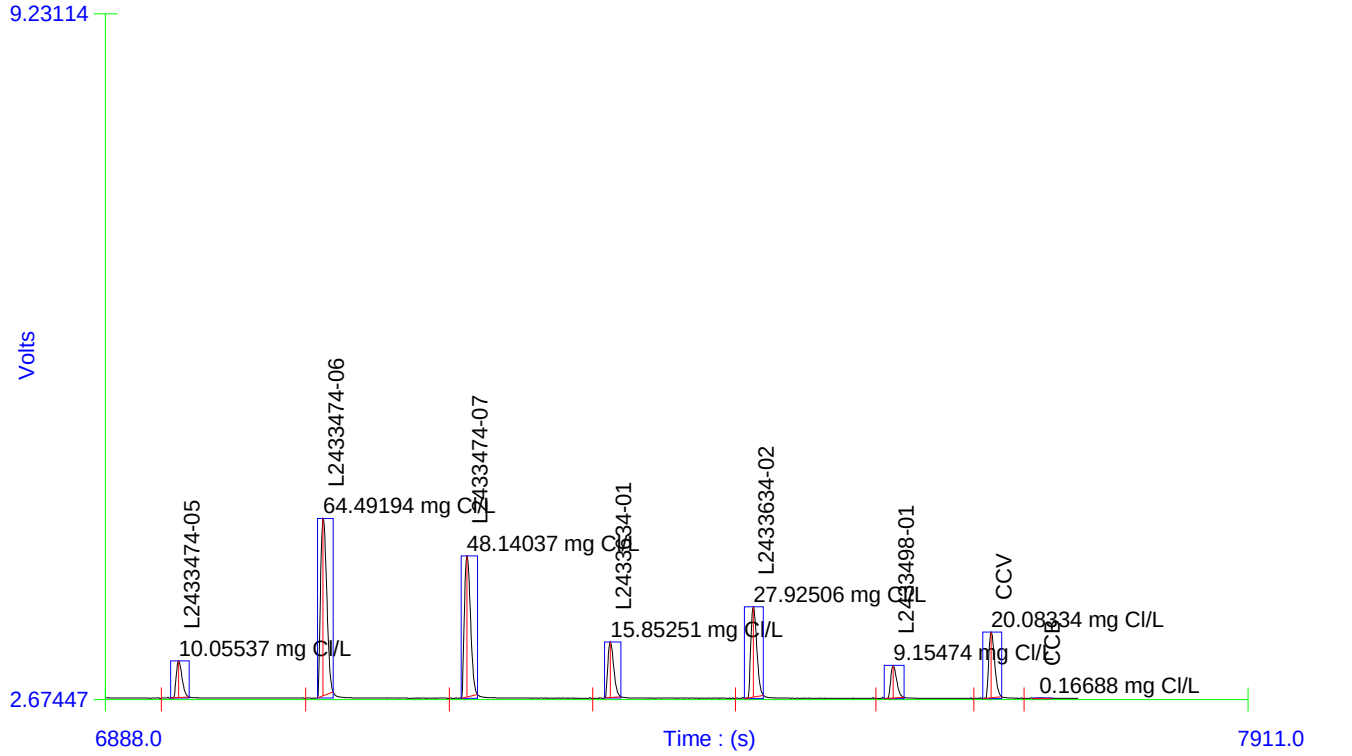
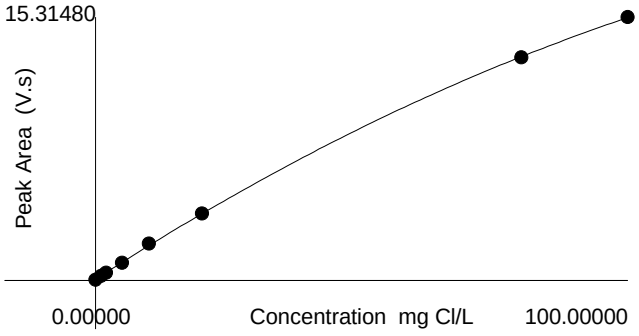


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.31480	2.27618	0.0	-0.2	99.68304	6/18/2024	3:40:12 PM
2	80.00000	1	12.96409	2.00795	0.0	0.4	80.47372	6/18/2024	3:40:58 PM
3	20.00000	1	3.89179	0.64605	0.0	-0.1	19.59984	6/18/2024	3:41:44 PM
4	10.00000	1	2.13182	0.35760	0.0	-5.2	10.23038	6/18/2024	3:42:30 PM
5	5.00000	1	1.02385	0.17044	0.0	3.4	4.73862	6/18/2024	3:43:16 PM
6	2.00000	1	0.44419	0.06878	0.0	5.0	1.99067	6/18/2024	3:44:02 PM
7	1.00000	1	0.26838	0.04089	0.0	0.1	1.17421	6/18/2024	3:44:49 PM
8	0.00000	1	0.03651	0.00455			0.10952	6/18/2024	3:45:34 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00048 * Conc^2 + 0.20059 * Conc + 0.06853
Conc = 0.12797 * Area^2 + 4.55276 * Area - 0.05687
Correlation Coefficient (r) = 0.99997

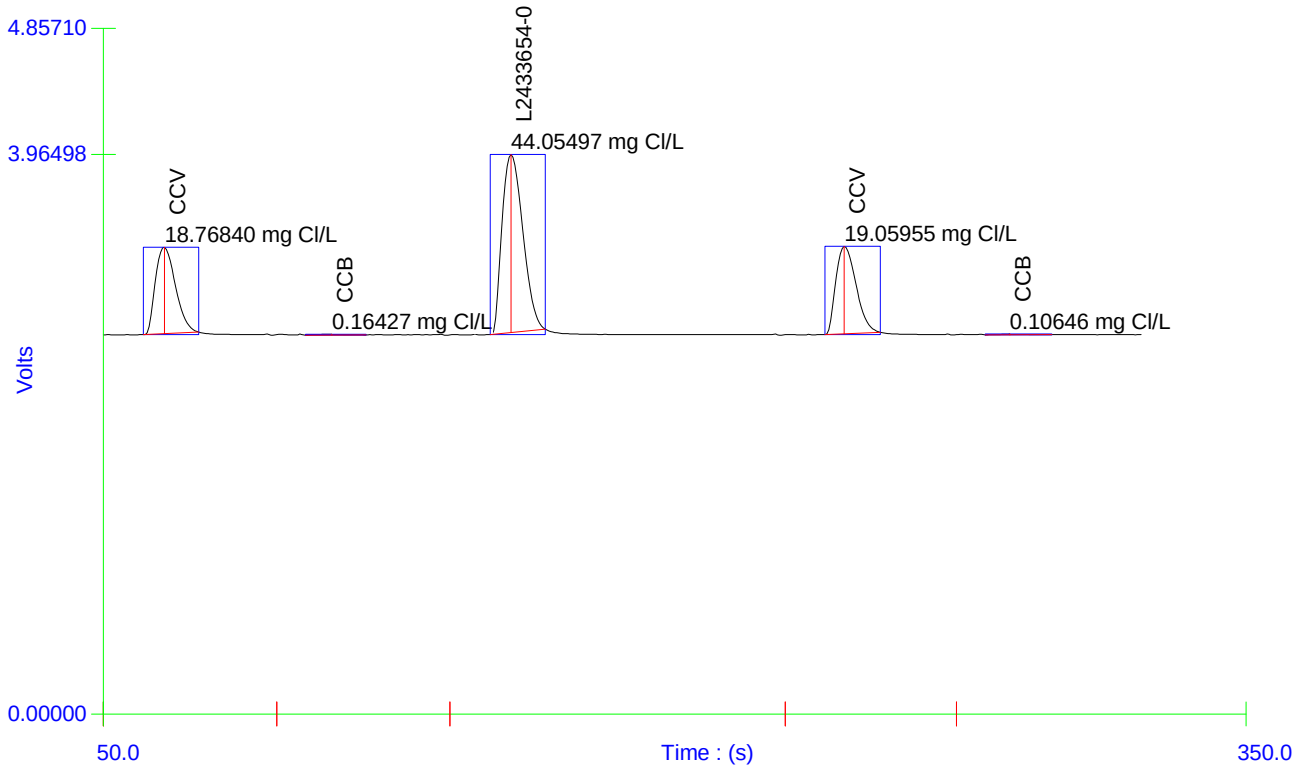
Weighting : None

Author: Date : 6/18/2024

Original Run Filename: OM_6-18-2024_06-25-35PM.OMN Created: 6/18/2024 6:25:35 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_6-18-2024_06-25-35PM.OMN Last Modified: 6/18/2024 6:31:17 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	18.76840			
		Known Conc:	20.00000			
		Calibration:	Table/Fig. : 1			
CCB	1	S9	0.16427			
		Known Conc:	0.00000			
L2433654-01	1	66	44.05497			
CCV	1	S3	19.05955			
		Known Conc:	20.00000			
CCB	1	S9	0.10646			
		Known Conc:	0.00000			

Channel 1 (Chloride) - Set: 1 / 1

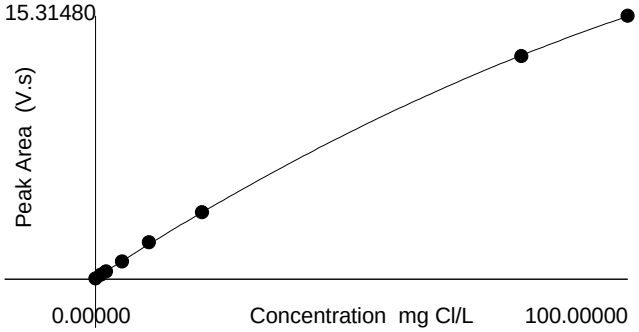


Author: Date : 6/18/2024

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.31480	2.27618	0.0	-0.2	99.68304	6/18/2024	3:40:12 PM
2	80.00000	1	12.96409	2.00795	0.0	0.4	80.47372	6/18/2024	3:40:58 PM
3	20.00000	1	3.89179	0.64605	0.0	-0.1	19.59984	6/18/2024	3:41:44 PM
4	10.00000	1	2.13182	0.35760	0.0	-5.2	10.23038	6/18/2024	3:42:30 PM
5	5.00000	1	1.02385	0.17044	0.0	3.4	4.73862	6/18/2024	3:43:16 PM
6	2.00000	1	0.44419	0.06878	0.0	5.0	1.99067	6/18/2024	3:44:02 PM
7	1.00000	1	0.26838	0.04089	0.0	0.1	1.17421	6/18/2024	3:44:49 PM
8	0.00000	1	0.03651	0.00455			0.10952	6/18/2024	3:45:34 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00048 * Conc^2 + 0.20059 * Conc + 0.06853
Conc = 0.12797 * Area^2 + 4.55276 * Area - 0.05687
Correlation Coefficient (r) = 0.99997

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1935895-4	**MS Analysis Date**	: 06/18/24 16:47
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	29.	20	46.	85					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/18/24 16:47
Dup Sample ID	: WG1935895-3	**DUP Analysis Date**	: 06/18/24 16:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	29.	27.	7	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935895-2	**LCS Analysis Date**	: 06/18/24 15:55
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**30.0**	**100.**					**90-110**	**7**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

TITLE C1 06 18 24 JER

Project No. _____

Book No. _____

Confident

From Page No. ____

1 ICV 5
2 30
3 80
4 ICB
5 100 ppm 10x
6 WG1935887-1 BLK
7 (5893) -2 LCS
8 WG1935895-1 BLK
9 -2 LCS
10 WG1935900-1 BLK
11 -2 LCS
12 33268-09
13 -10
14 -11
15 33401-01
16 WG1935893-3 Dup
17 -4 MS
18 33401-02
19 -03
20 -04
21 -05
22 -06
23 -07
24 33268-01
25 WG1935887-3 Dup
26 -4 MS
27 33268-02
28 -03
29 -04
30 -05
31 -06
32 -07
33 -08
34 33408-01
35 -09
36 33224-01
37 33826-01
38 33222-01
39 33375-01
40 -02
41 -03
42 WG1935895-3 Dup
43 -4 MS
44 33375-04
45 -05
46 -06
47 -07
48 -08
49 33452-01
50 -02
51 -03
52 -04
53 33502-02
54 33529-01
55 33474-01
56 WG1935900-3 Dup
57 -4 MS
58 33424-02
59 -03
60 -04
61 -05
62 -06
63 -07
64 33634-01
65 -02
66 33654-01
67 33656-01
68 WG1936056-1 BLK
69 -2 LCS
70 33495-09
71 -11
72 -13
73 WG1936056-3 Dup
74 -4 MS

To Page No. ____

Witnessed & Understood by me,

Date

Invented by:

Date

Recorded by:

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-05	**Date Collected**	:	06/13/24 10:35
Client ID	:	MW-12S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 03:56
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG1936163.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.06	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-08	**Date Collected**	: 06/13/24 11:40
Client ID	: MW-4D2	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936163-1	**Date Collected**	: NA
Client ID	: WG1936163-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936163-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/19/24 03:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1936163.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.02	J

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Analysis: FLUORIDE
Method: SM 4500F-BC
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Product: F-4500
Analysis Analyte: Fluoride,
Analysis Date: 6/19/2024 3:56
Technician: DTH
Work group: WG1936163
RL: 0.20 mg/L
Distillation Date: 6/19/2024 0:44

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	129.6	-0.705	0.1973	99	-60.4012026	87.025
0.5	-0.301	105.3	-0.303	0.4982	100		
1.0	0.000	86.3	0.012	1.0280	103	Correlation	Coefficient
10	1.000	26.9	0.995	9.895	99	0.99993609	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	1.04	1.00	1.04	104%
SAMP	L2433375-01	50	50		YES	1.00	0.00998	1.00	0.01	
SAMP	L2433375-02	50	50		YES	1.00	0.0263	1.00	0.03	
SAMP	L2433375-03	50	50		YES	1.00	0.0348	1.00	0.03	
SAMP	L2433375-04	50	50		YES	1.00	0.0416	1.00	0.04	
SAMP	L2433375-05	50	50		YES	1.00	0.0391	1.00	0.04	
SAMP	L2433375-06	50	50		YES	1.00	0.0573	1.00	0.06	
SAMP	L2433375-07	50	50		YES	1.00	0.0356	1.00	0.04	
SAMP	L2433375-08	50	50		YES	1.00	0.0448	1.00	0.04	
	CCV	50	50		YES	1.00	1.01	1.00	1.01	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	1.02	1.00	1.02	
	CCB	50	50		YES	1.00	0	1.00	0.00	
LOQ2	WG1936163-5	50	50		YES	1.00	0.105	1.00	0.11	
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
BLANK	WG1936163-1	50	50		YES	1.00	0.00695	1.00	0.01	
DUP	WG1936163-3	50	50		YES	1.00	0.0392	1.00	0.04	L2433375-04

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1936163-4	50	50		YES	.04	1	1	1.00	96
LCS	WG1936163-2	50	50		YES		1.88	2	1.88	94

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1936163-4	**MS Analysis Date**	: 06/19/24 03:56
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.04J	1	1.0	100					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/19/24 03:56
Dup Sample ID	: WG1936163-3	**DUP Analysis Date**	: 06/19/24 03:56

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.04J	0.04J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936163-2	**LCS Analysis Date**	: 06/19/24 03:56
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Fluoride	**2.00**	**1.90**	**94.**					**78-120**	**13**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

STD	Mv
0.2	129.6
0.5	105.3
1.0	86.3
10.0	26.9

Analyst: DTH
Date & Time: 6/19/24 3:56
ICV: F036724
LCS: F031724
Spike: F031724
Curve: WC- 3420
TISAB III: R- 4133

Sample	Volume	Final Volume	Meter
ICV	50mL	50mL	1.04
ICB			0.00
Blank			0.00695
LCS			1.88
33375-01			0.00998
-02			0.0263
-03			0.0346
-04D			0.0416
-04DUP			0.0392
-04MS			1.00
-05			0.0391
-06			0.0573
CCV			1.01
CCB			0.00
-07			0.0356
-08			0.0448
LOQ2			0.105
CCV			1.02
CCB			0.00

Witnessed & Understood by me, Date | Invented by: Date | Recorded by:

From Page No. ____

Tube	Sample	Volume	Final Vol	Block	Comments
					6/18/24 4:44
1	Blank	50mL	50mL	Phenol #2	
2	LCS				1.0mL F031724-100ppm
3	31465-01				
4	33035-01				
5	-02				
6	-03				
7	-Dup03				
8	-MS03				0.5mL F031724-100ppm
9	-04				
10	-05				
11	-06			Phenol #3	
12	-07				
13	-08				
14	-09				
15	-10				
16	LOQ1				0.05mL F031724-100ppm
17	33236-01				
18	33502-02				
19	32117-08				

Tube	Sample	Volume	Final Volume	Block	Comments
		50mL	50mL	Phenol #2	6/19/24 00:44
1	Blank	5			1.0mL F031724-100ppm
2	LCS				
3	33375-01				
4	-02				
5	-03				
6	-04				
7	-Dup04				
8	-MS04				0.5mL F031724-100ppm
9	-05				
10	-06				
11	-07			Phenol #3	
12	-08				
13	LOQ2				0.05mL F031724-100ppm

To Page No. __

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:19
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-02	**Date Collected**	:	06/13/24 11:00
Client ID	:	DUP_06132024	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/20/24 11:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS062024-WG1936383.csv	**Instrument ID**	:	SEAL
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.040	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.040	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-07	**Date Collected**	: 06/13/24 11:45
Client ID	: MW-4S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.022	0.031	0.012	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-08	**Date Collected**	:	06/13/24 11:40
Client ID	:	MW-4D2	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/20/24 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS062024-WG1936383.csv	**Instrument ID**	:	SEAL
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.058	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936383-1	**Date Collected**	: NA
Client ID	: WG1936383-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 11:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936383-3	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5DDUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/20/24 11:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.012	0.031	0.012	J

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	EASAMOAH
Date & Time:	20-Jun-2024 11:42:29
Tray Number:	2
Tray Name:	WG1936383

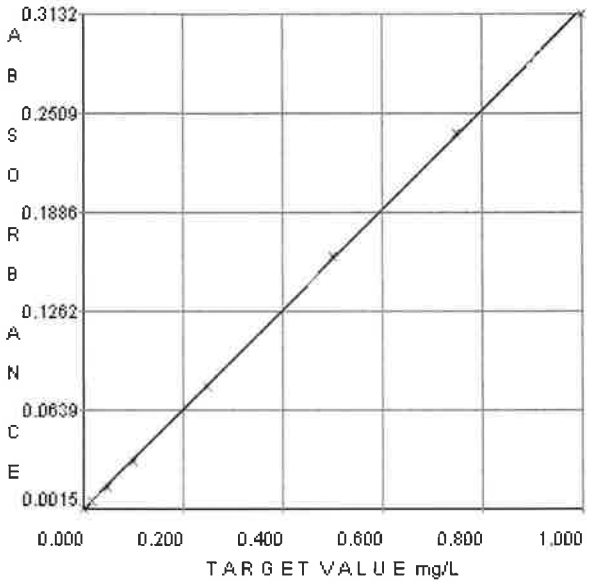
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0015	0.001	0.000	
S90	0.0070	0.018	0.020	-7.68
S91	0.0161	0.047	0.050	-5.30
S92	0.0319	0.098	0.100	-2.22
S93	0.0793	0.248	0.250	-0.61
S94	0.1615	0.510	0.500	1.91
S95	0.2387	0.755	0.750	0.69
S96	0.3132	0.992	1.000	-0.79
S0	0.0017	0.002	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-3.743618E-003
b =:	3.179080E+000
Date & Time:	20-Jun-2024 09:06:50

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	061324-tp color	Maeve Flaherty	04-Jul-2024 22:00:00
TP ascorbic	061924-aa	E ASAMOAH	26-Jun-2024 22:00:00

Test Results

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
2	ICV	ICV	0.501	mg/L	0.158854			EYA	20-Jun-2024 11:13:27
3	ICB	ICB	0.000	mg/L	0.001277			EYA	20-Jun-2024 11:14:35
4	U1	WG1936383-1O	-0.000ELL	mg/L	0.001113			EYA	20-Jun-2024 11:15:43
5	U2	WG1936383-2O	0.496	mg/L	0.157087			EYA	20-Jun-2024 11:16:50
6	U3	L2433035-01O	0.090	mg/L	0.029356			EYA	20-Jun-2024 11:17:58
7	U4	L2433375-01O	-0.000ELL	mg/L	0.001091			EYA	20-Jun-2024 11:19:06
8	U5	L2433375-02O	0.013	mg/L	0.005250			EYA	20-Jun-2024 11:20:14
9	U6	L2433375-03O	0.013	mg/L	0.005415			EYA	20-Jun-2024 11:21:22
10	U7	L2433375-04O	0.005	mg/L	0.002667			EYA	20-Jun-2024 11:22:30
	CCV	C C V	0.487	mg/L	0.154233			EYA	20-Jun-2024 11:23:38
	CCB	C C B	0.001	mg/L	0.001506			EYA	20-Jun-2024 11:24:48
11	U8	WG1936383-3O	0.004	mg/L	0.002294			EYA	20-Jun-2024 11:25:58

12	U9	WG1936383-4O	0.519	mg/L	0.164278		EYA	20-Jun-2024 11:26:52
13	U10	L2433375-05O	0.005	mg/L	0.002842		EYA	20-Jun-2024 11:27:55
14	U11	L2433375-06O	0.003	mg/L	0.002053		EYA	20-Jun-2024 11:28:48
15	U12	L2433375-07O	0.007	mg/L	0.003325		EYA	20-Jun-2024 11:29:42
16	U13	L2433375-08O	0.019	mg/L	0.007051		EYA	20-Jun-2024 11:30:35
17	U14	L2433686-01O	0.784	mg/L	0.247919		EYA	20-Jun-2024 11:31:29
18	U15	L2433691-01O	0.006	mg/L	0.002919		EYA	20-Jun-2024 11:32:22
19	U16	L2433691-02O	0.009	mg/L	0.004016		EYA	20-Jun-2024 11:33:16
20	U17	L2433691-03O	0.024	mg/L	0.008672		EYA	20-Jun-2024 11:34:10
	CCV	C C V	0.476	mg/L	0.150976		EYA	20-Jun-2024 11:35:03
	CCB	C C B	0.001	mg/L	0.001538		EYA	20-Jun-2024 11:35:58

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1936383-4	**MS Analysis Date**	: 06/20/24 11:26
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.015J	1.53	1.59	104					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04	**Analysis Date**	: 06/20/24 11:22
Dup Sample ID	: WG1936383-3	**DUP Analysis Date**	: 06/20/24 11:25

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.015J	0.012J	NC	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936383-2	**LCS Analysis Date**	: 06/20/24 11:16
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.52**	**99.**					**84-118**	**15**

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Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM11468-1
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Created By: Jason Hebert
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Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-01	**Date Collected**	: 06/13/24 12:30
Client ID	: EB_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:41
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1936473B	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-02	**Date Collected**	: 06/13/24 11:00
Client ID	: DUP_06132024	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1936473	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-03	**Date Collected**	: 06/13/24 08:50
Client ID	: PZ-5	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1936473	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-04	**Date Collected**	: 06/13/24 09:00
Client ID	: MW-5D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1936473	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-05	**Date Collected**	: 06/13/24 10:35
Client ID	: MW-12S	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1936473	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.041	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433375-06	**Date Collected**	: 06/13/24 10:30
Client ID	: MW-12D	**Date Received**	: 06/13/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1936473	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-07	**Date Collected**	:	06/13/24 11:45
Client ID	:	MW-4S	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 16:41
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG1936473	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433375
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433375-08	**Date Collected**	:	06/13/24 11:40
Client ID	:	MW-4D2	**Date Received**	:	06/13/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 16:54
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG1936473	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.045	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936473-1	**Date Collected**	: NA
Client ID	: WG1936473-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 10:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1936473	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

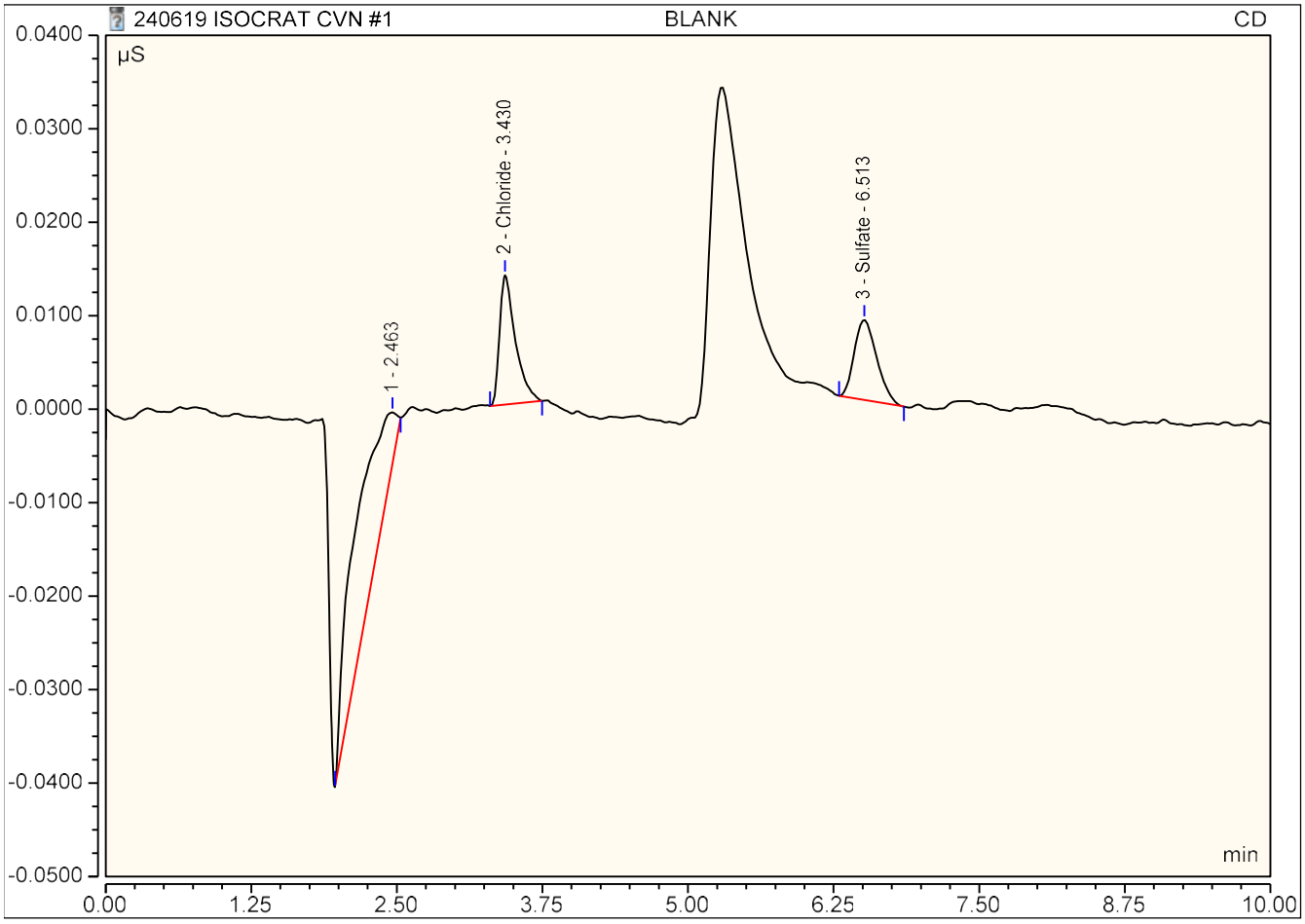
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 16:46**	*Run Time:*	**10.00**

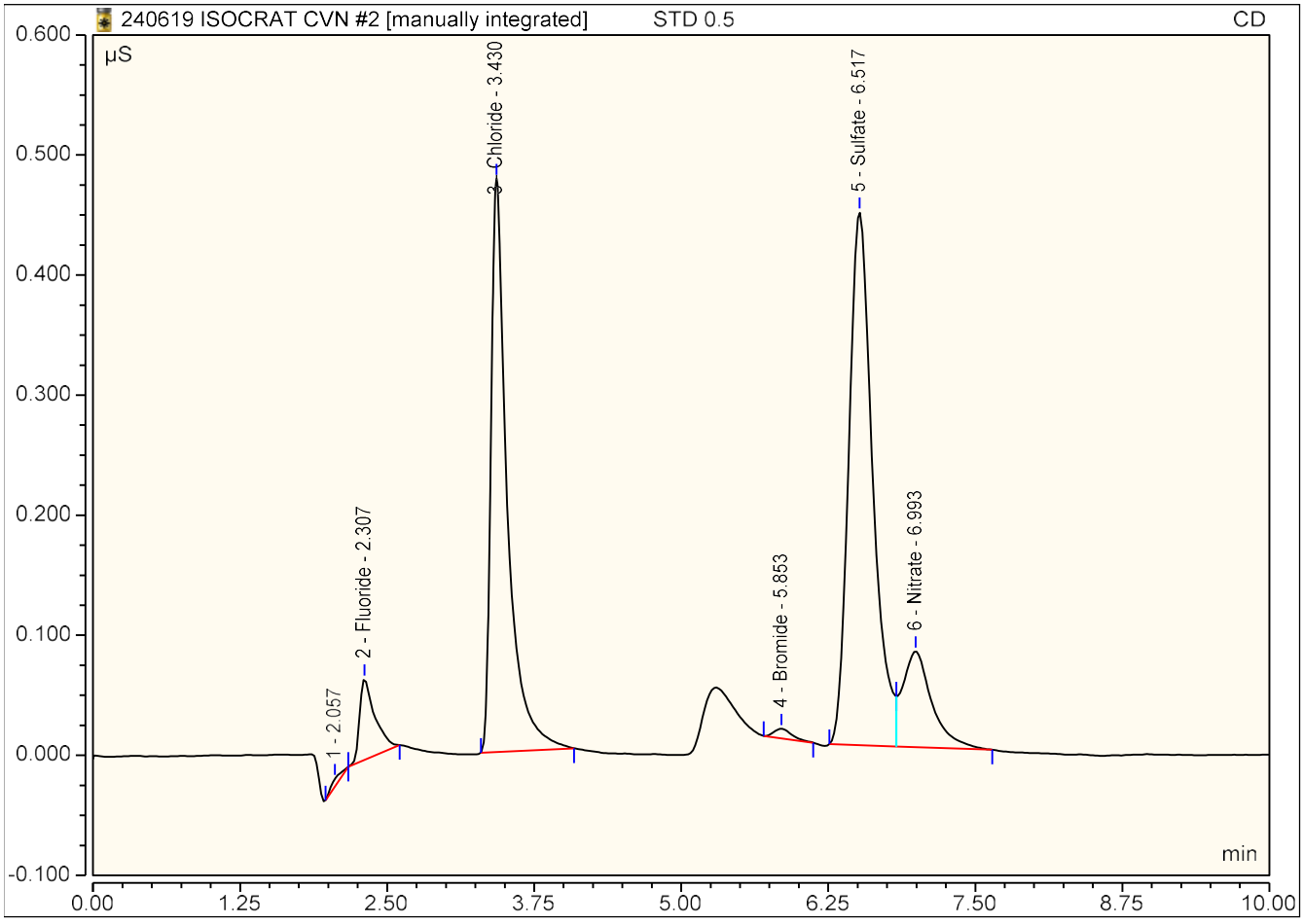
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB	0.002	0.014	0.2384
3	6.51	**Sulfate**	BMB	0.002	0.009	0.4226
TOTAL:				0.00	0.02	0.66



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 16:58**	*Run Time:*	**10.00**

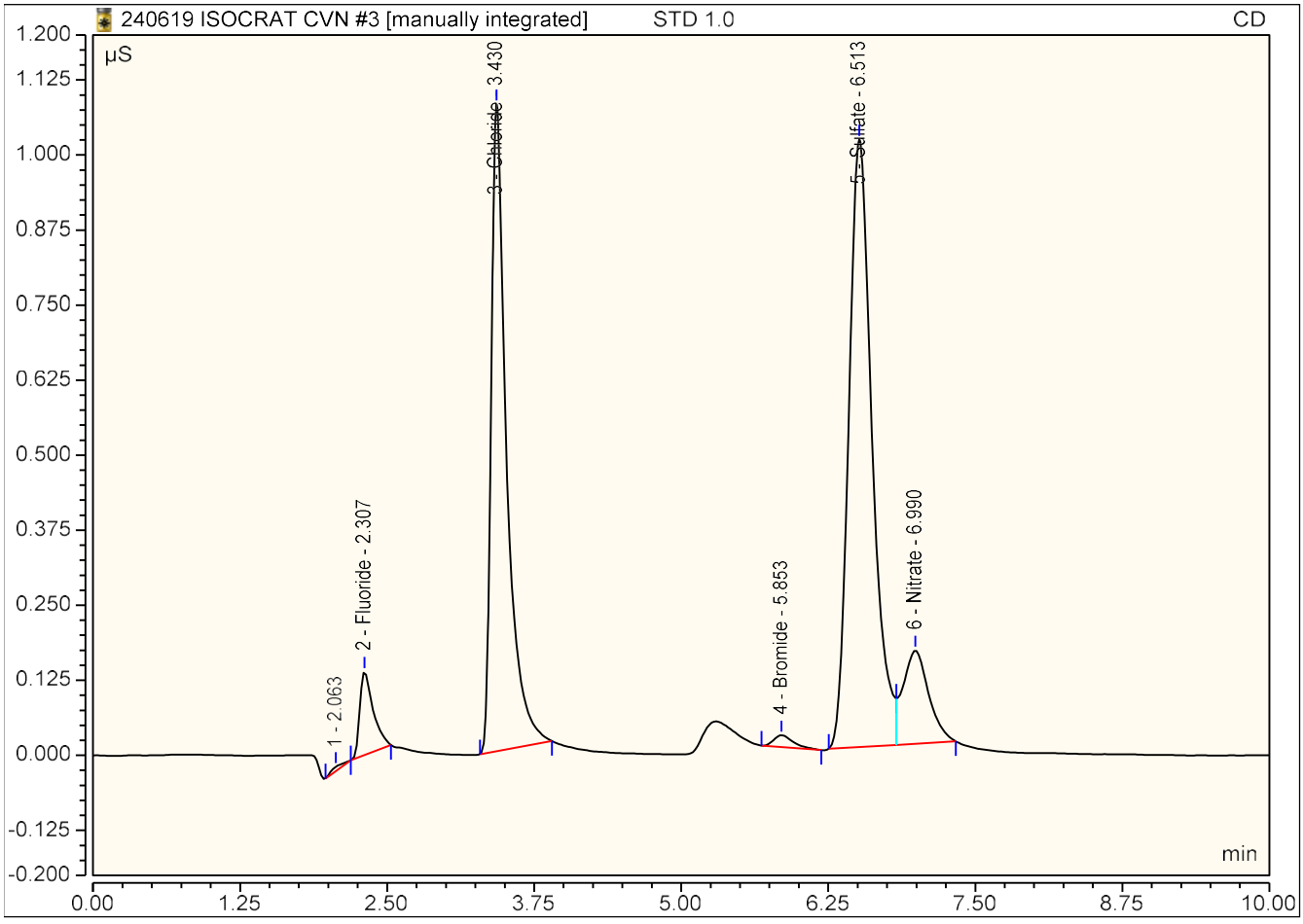
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	bMB*	0.010	0.067	0.0680
3	3.43	**Chloride**	BMB*	0.077	0.478	0.4130
4	5.85	**Bromide**	BMB	0.001	0.008	0.0483
5	6.52	**Sulfate**	BM *	0.105	0.444	0.7547
6	6.99	**Nitrate**	MB*	0.023	0.080	0.0513
TOTAL:				0.22	1.08	1.34



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:10**	*Run Time:*	**10.00**

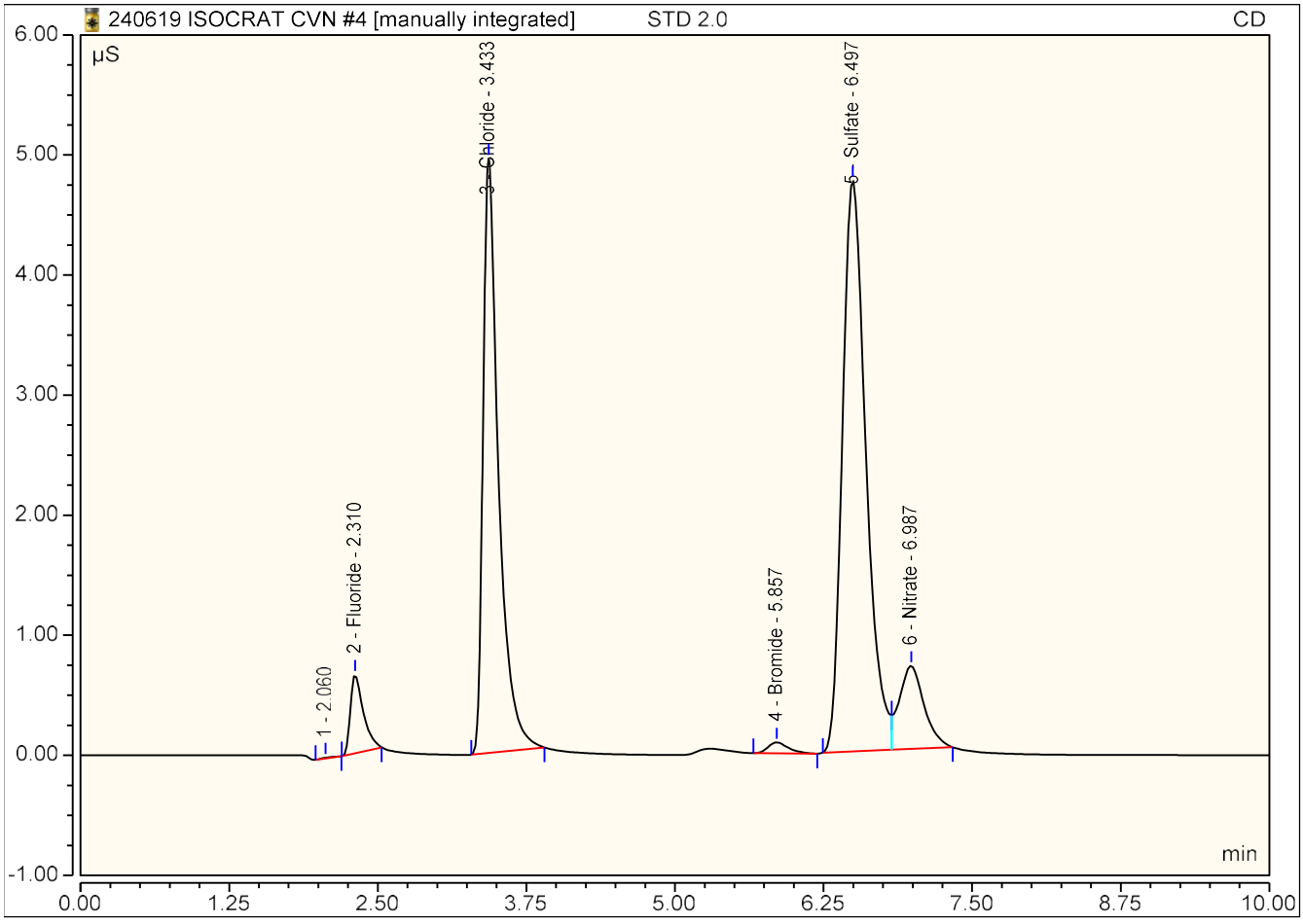
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.018	0.139	0.0818
3	3.43	**Chloride**	BMB*	0.163	1.078	0.6145
4	5.85	**Bromide**	BMB	0.004	0.020	0.0688
5	6.51	**Sulfate**	BM *	0.232	1.012	1.1659
6	6.99	**Nitrate**	MB*	0.039	0.156	0.0661
TOTAL:				0.46	2.40	2.00



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:22**	*Run Time:*	**10.00**

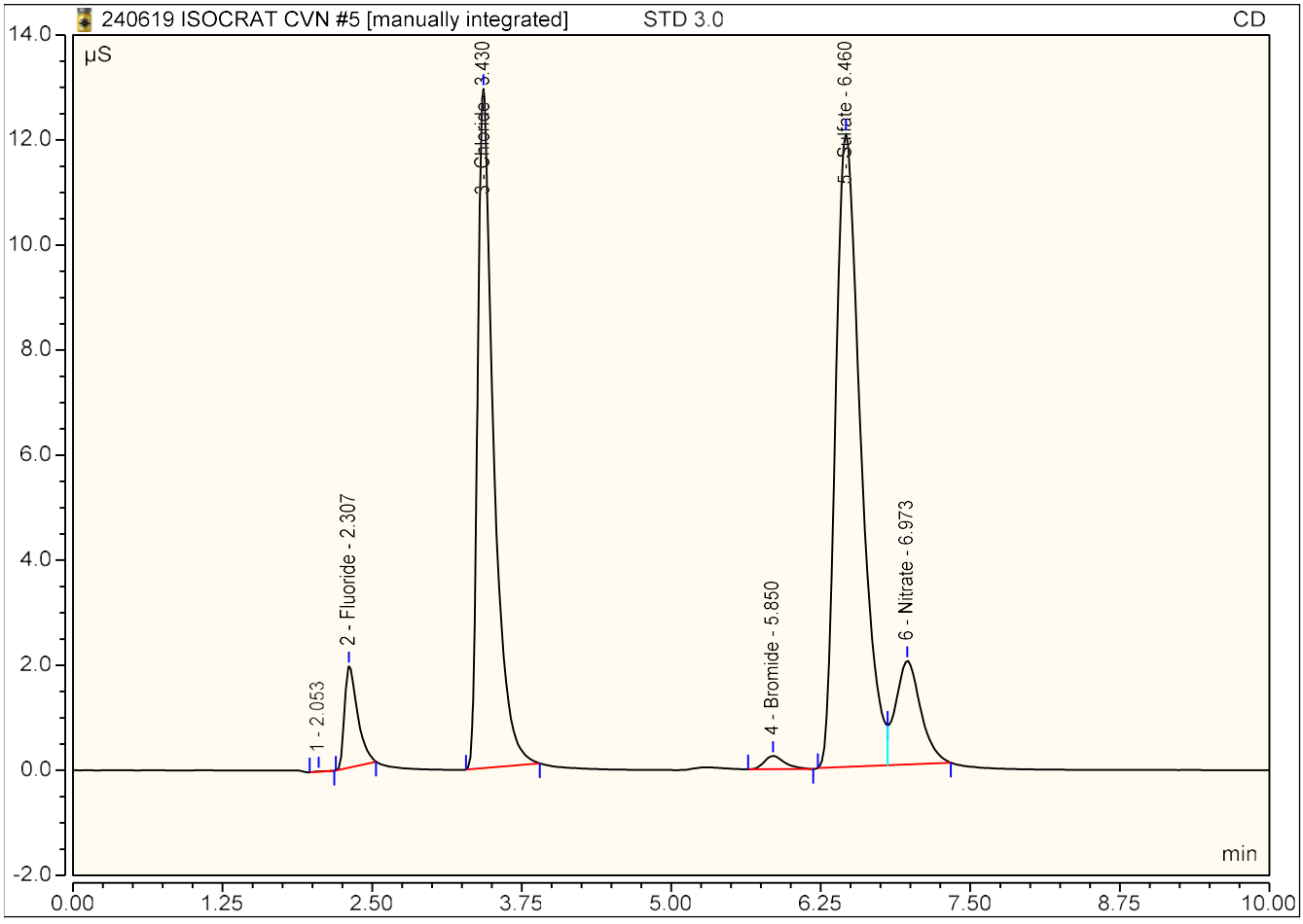
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.083	0.654	0.1890
3	3.43	**Chloride**	BMB*	0.750	4.952	1.9848
4	5.86	**Bromide**	BMB	0.018	0.092	0.1901
5	6.50	**Sulfate**	BM *	1.092	4.757	3.9467
6	6.99	**Nitrate**	MB*	0.168	0.692	0.1826
TOTAL:				2.11	11.15	6.49



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:34**	*Run Time:*	**10.00**

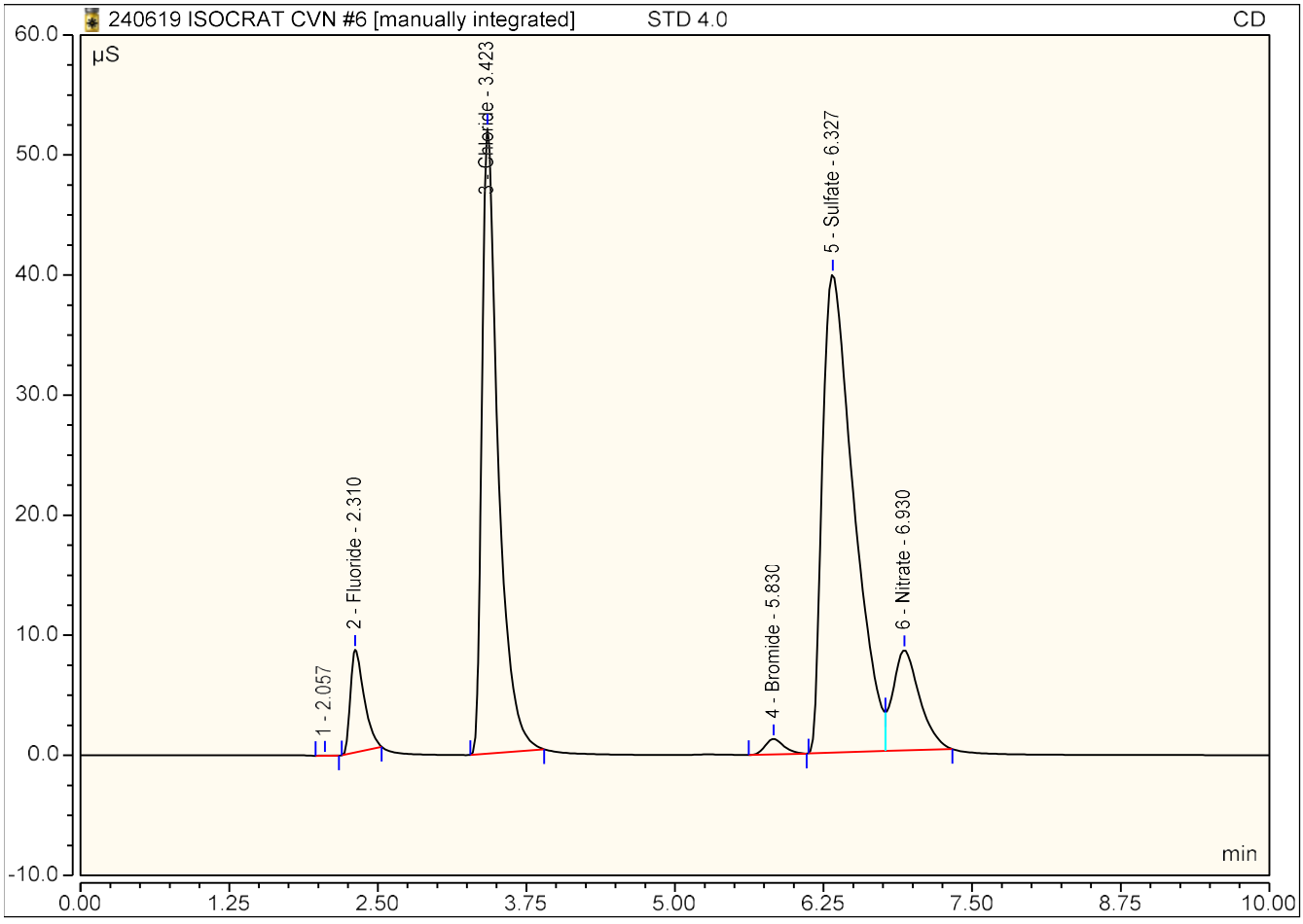
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.244	1.931	0.4596
3	3.43	**Chloride**	BMB*	1.999	12.931	4.9033
4	5.85	**Bromide**	BMB	0.050	0.253	0.4567
5	6.46	**Sulfate**	BM *	2.926	12.055	9.8731
6	6.97	**Nitrate**	MB*	0.482	1.971	0.4653
TOTAL:				5.70	29.14	16.16



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:46**	*Run Time:*	**10.00**

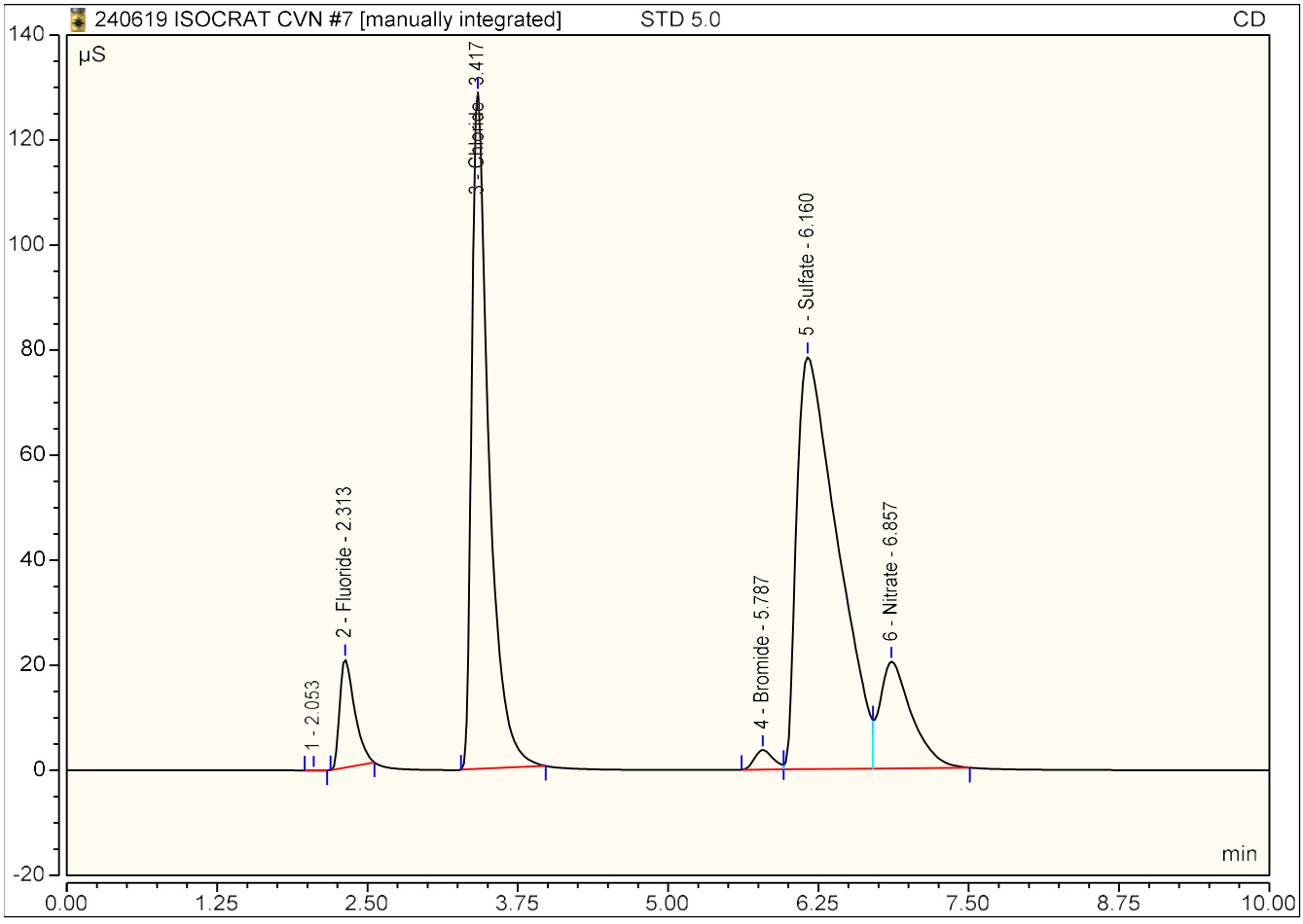
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	1.138	8.552	1.9544
3	3.42	**Chloride**	BMB*	8.338	52.076	19.7101
4	5.83	**Bromide**	BMB	0.236	1.280	2.0111
5	6.33	**Sulfate**	BM *	12.119	39.833	39.5794
6	6.93	**Nitrate**	MB*	2.193	8.359	2.0097
TOTAL:				24.02	110.10	65.26



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:58**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	2.972	20.624	5.0222
3	3.42	**Chloride**	BMB*	21.360	128.769	50.1243
4	5.79	**Bromide**	BM *	0.676	3.745	5.7054
5	6.16	**Sulfate**	M *	30.872	78.460	100.1801
6	6.86	**Nitrate**	MB*	6.286	20.353	5.7047
TOTAL:				62.17	251.95	166.74



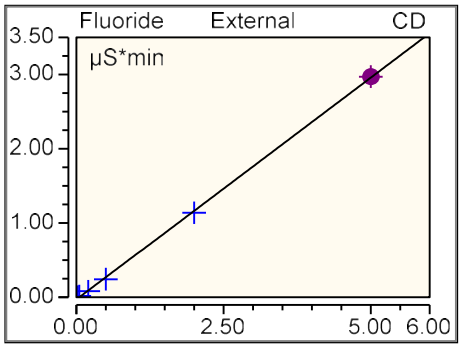
Calibration Batch Report

Sequence:	**240619 ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:58**	*Run Time:*	**10**

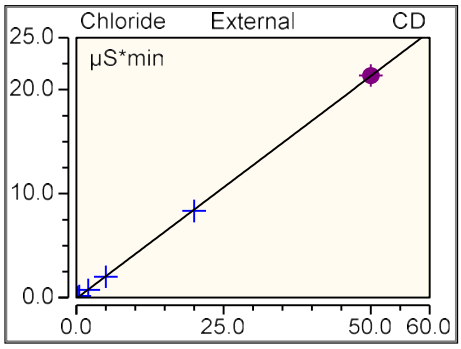
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.030	0.598	0.000	99.9626
Chloride	Area	in, WithOffse	6.000	-0.100	0.428	0.000	99.9923
Bromide	Area	in, WithOffse	5.000	-0.004	0.119	0.000	99.8913
Sulfate	Area	in, WithOffse	6.000	-0.129	0.309	0.000	99.9958
Nitrate	Area	in, WithOffse	5.000	-0.034	1.108	0.000	99.9073
		AVERAGE:		-0.0595	0.5125	0.0000	99.9499

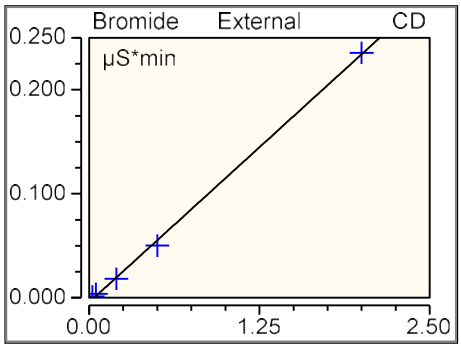
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.307	0.0102	0.067	0.068
STD 1.0	2.307	0.0184	0.139	0.082
STD 2.0	2.310	0.0825	0.654	0.189
STD 3.0	2.307	0.2443	1.931	0.460
STD 4.0	2.310	1.1378	8.552	1.954
STD 5.0	2.313	2.9718	20.624	5.022
Average	2.309			
Rel. Std. Dev.	0.118 %			



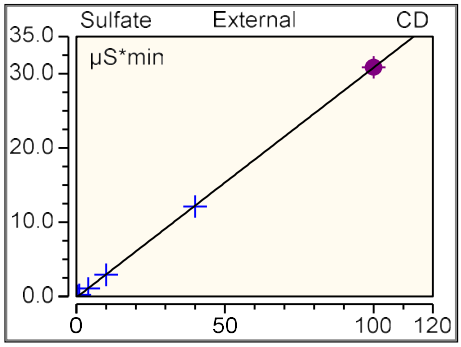
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.430	0.0769	0.478	0.413
STD 1.0	3.430	0.1631	1.078	0.614
STD 2.0	3.433	0.7498	4.952	1.985
STD 3.0	3.430	1.9993	12.931	4.903
STD 4.0	3.423	8.3385	52.076	19.710
STD 5.0	3.417	21.3595	128.769	50.124
Average	3.427			
Rel. Std. Dev.	0.178 %			



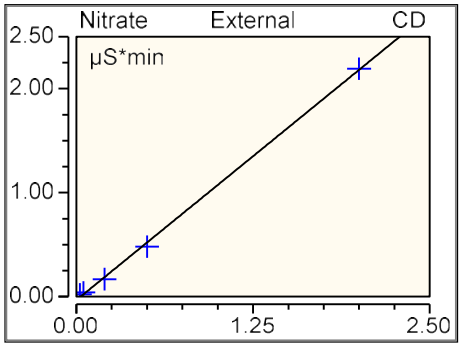
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.853	0.0014	0.008	0.048
STD 1.0	5.853	0.0038	0.020	0.069
STD 2.0	5.857	0.0183	0.092	0.190
STD 3.0	5.850	0.0501	0.253	0.457
STD 4.0	5.830	0.2356	1.280	2.011
STD 5.0	5.787	0.6763	3.745	5.705
Average	5.838			
Rel. Std. Dev.	0.463 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.517	0.1047	0.444	0.755
STD 1.0	6.513	0.2319	1.012	1.166
STD 2.0	6.497	1.0925	4.757	3.947
STD 3.0	6.460	2.9264	12.055	9.873
STD 4.0	6.327	12.1190	39.833	39.579
STD 5.0	6.160	30.8719	78.460	100.180
Average	6.412			
Rel. Std. Dev.	2.222 %			



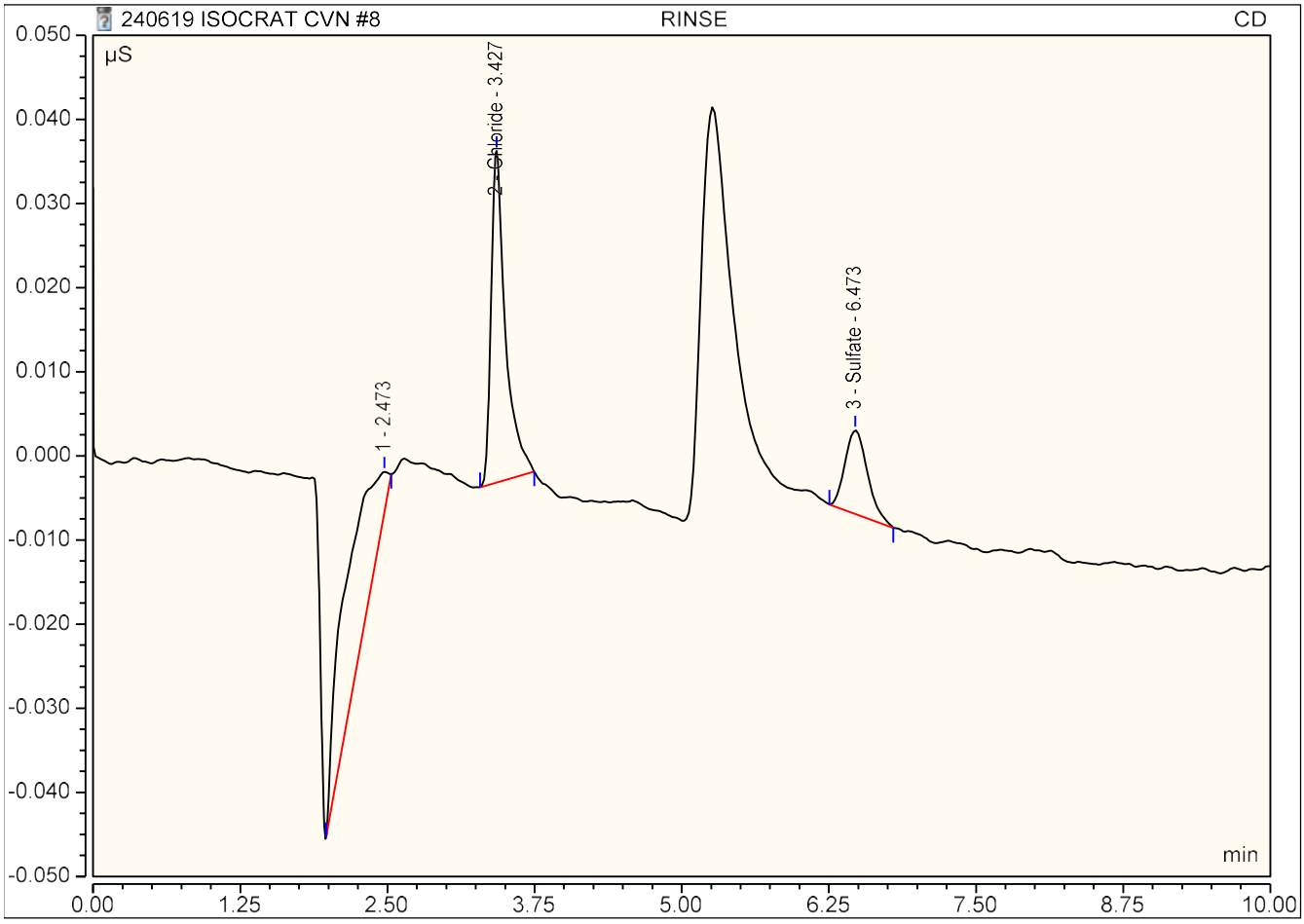
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.993	0.0229	0.080	0.051
STD 1.0	6.990	0.0393	0.156	0.066
STD 2.0	6.987	0.1684	0.692	0.183
STD 3.0	6.973	0.4816	1.971	0.465
STD 4.0	6.930	2.1927	8.359	2.010
STD 5.0	6.857	6.2864	20.353	5.705
Average	6.955			
Rel. Std. Dev.	0.770 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 08:38**	*Run Time:*	**10.00**

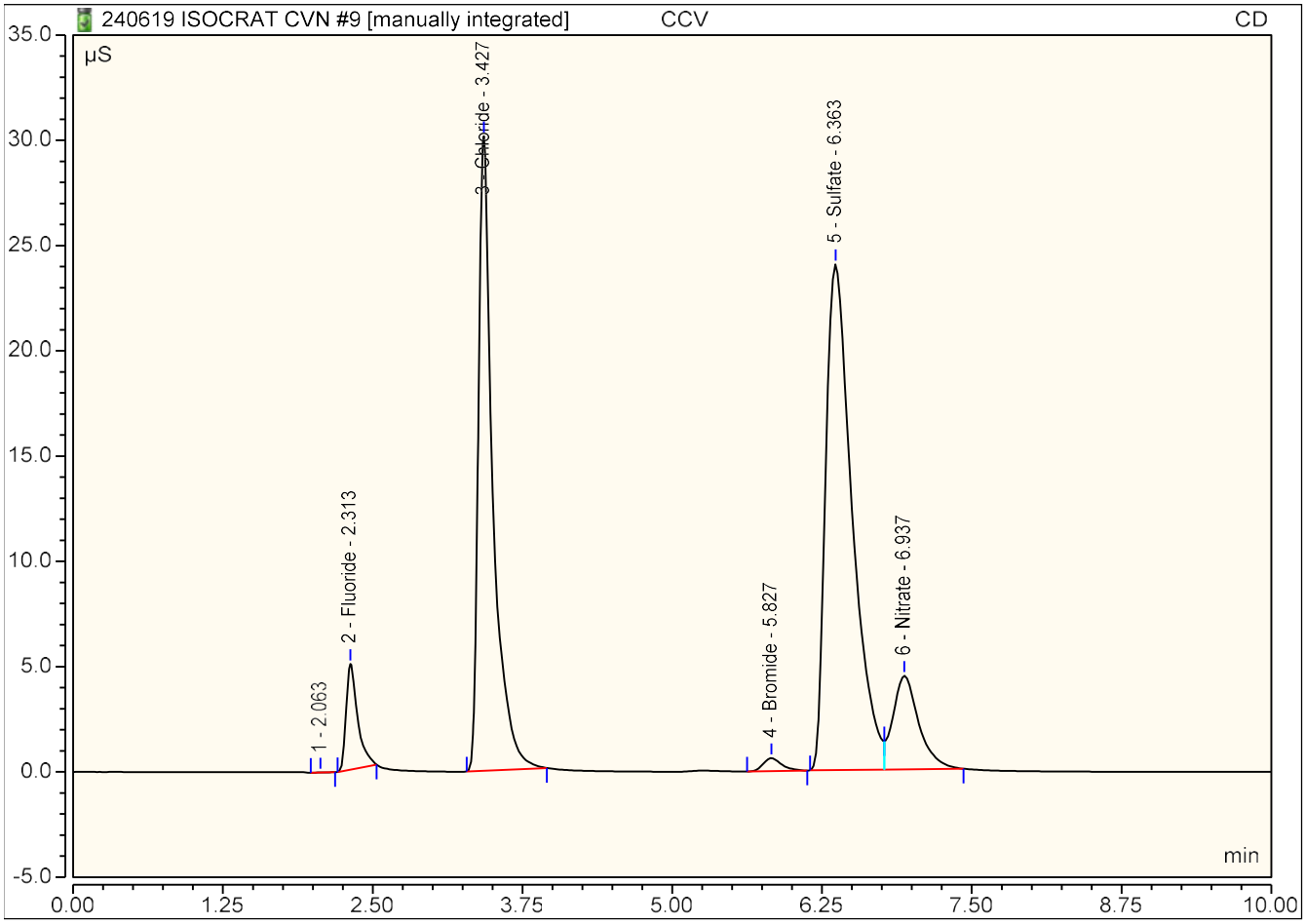
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB	0.006	0.039	0.2464
3	6.47	**Sulfate**	BMB	0.002	0.010	0.4235
TOTAL:				0.01	0.05	0.67



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 08:50**	*Run Time:*	**10.00**

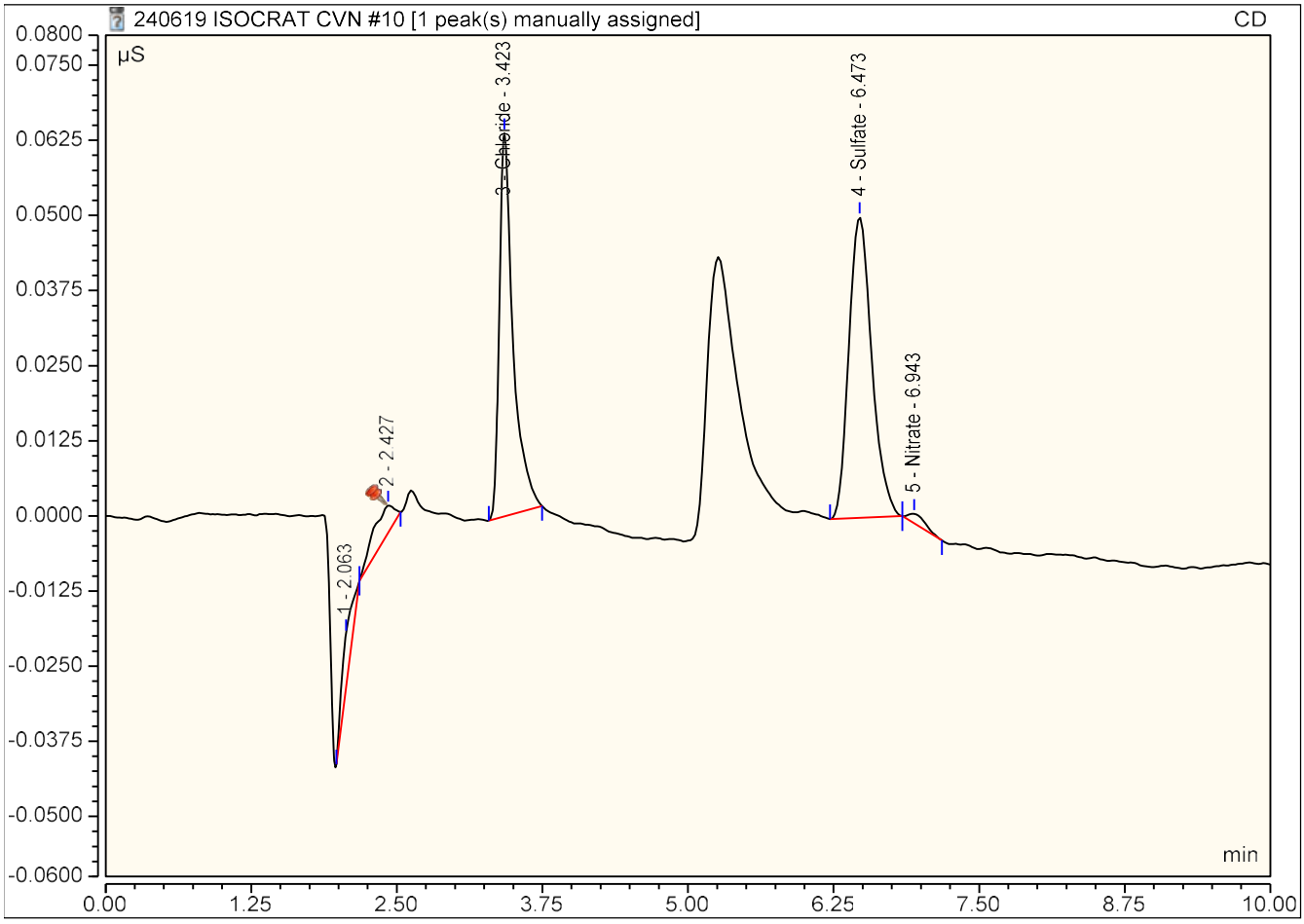
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.556	5.018	0.9806
3	3.43	**Chloride**	BMB*	4.232	30.140	10.1180
4	5.83	**Bromide**	BMB	0.112	0.621	0.9746
5	6.36	**Sulfate**	BM *	6.165	24.023	20.3386
6	6.94	**Nitrate**	MB*	1.113	4.443	1.0356
TOTAL:				12.18	64.25	33.45



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 09:02**	*Run Time:*	**10.00**

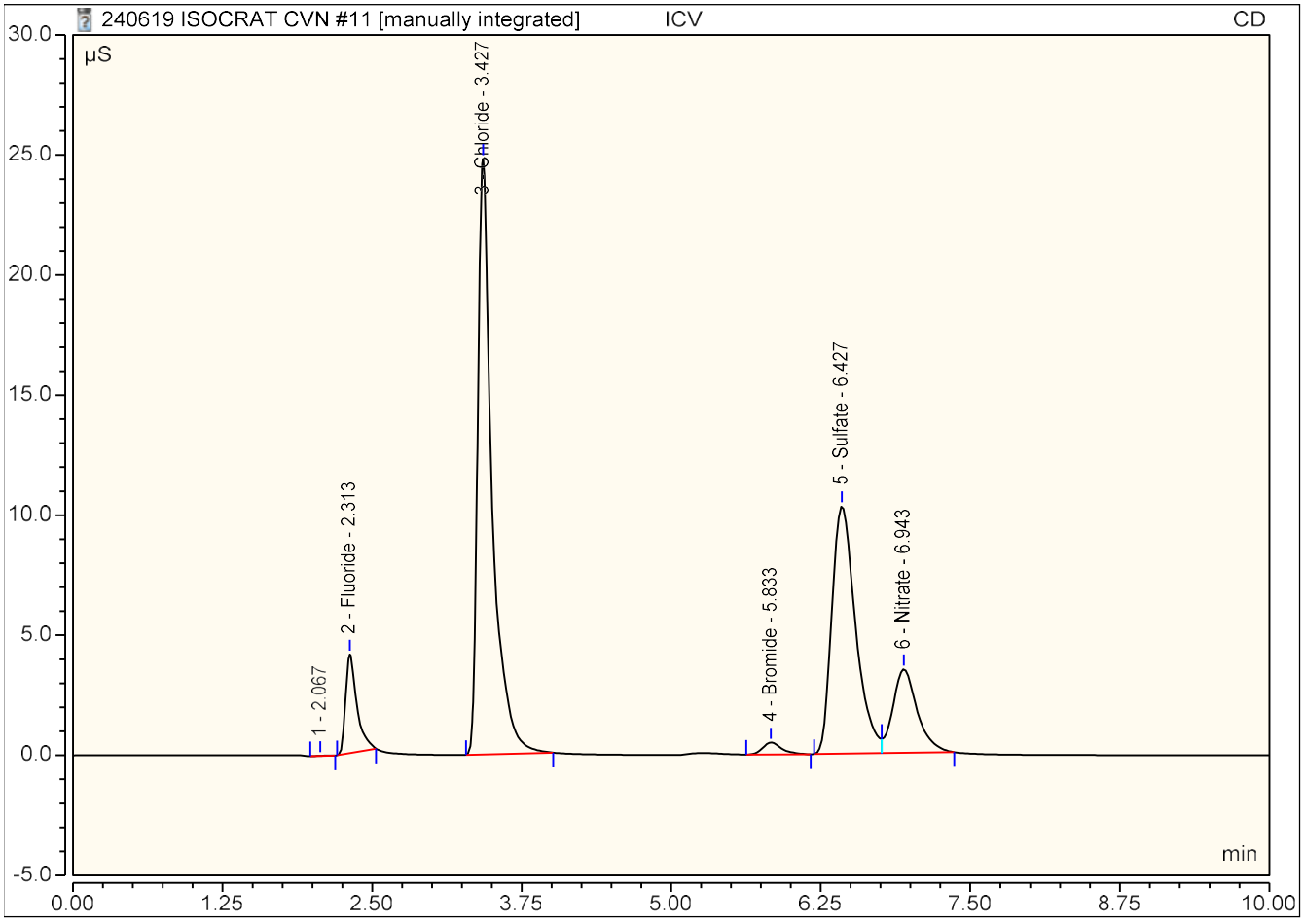
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.009	0.064	0.2537
4	6.47	**Sulfate**	BMB	0.011	0.050	0.4533
5	6.94	**Nitrate**	BMB	0.000	0.002	0.0309
TOTAL:				0.02	0.12	0.74



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 09:14**	*Run Time:*	**10.00**

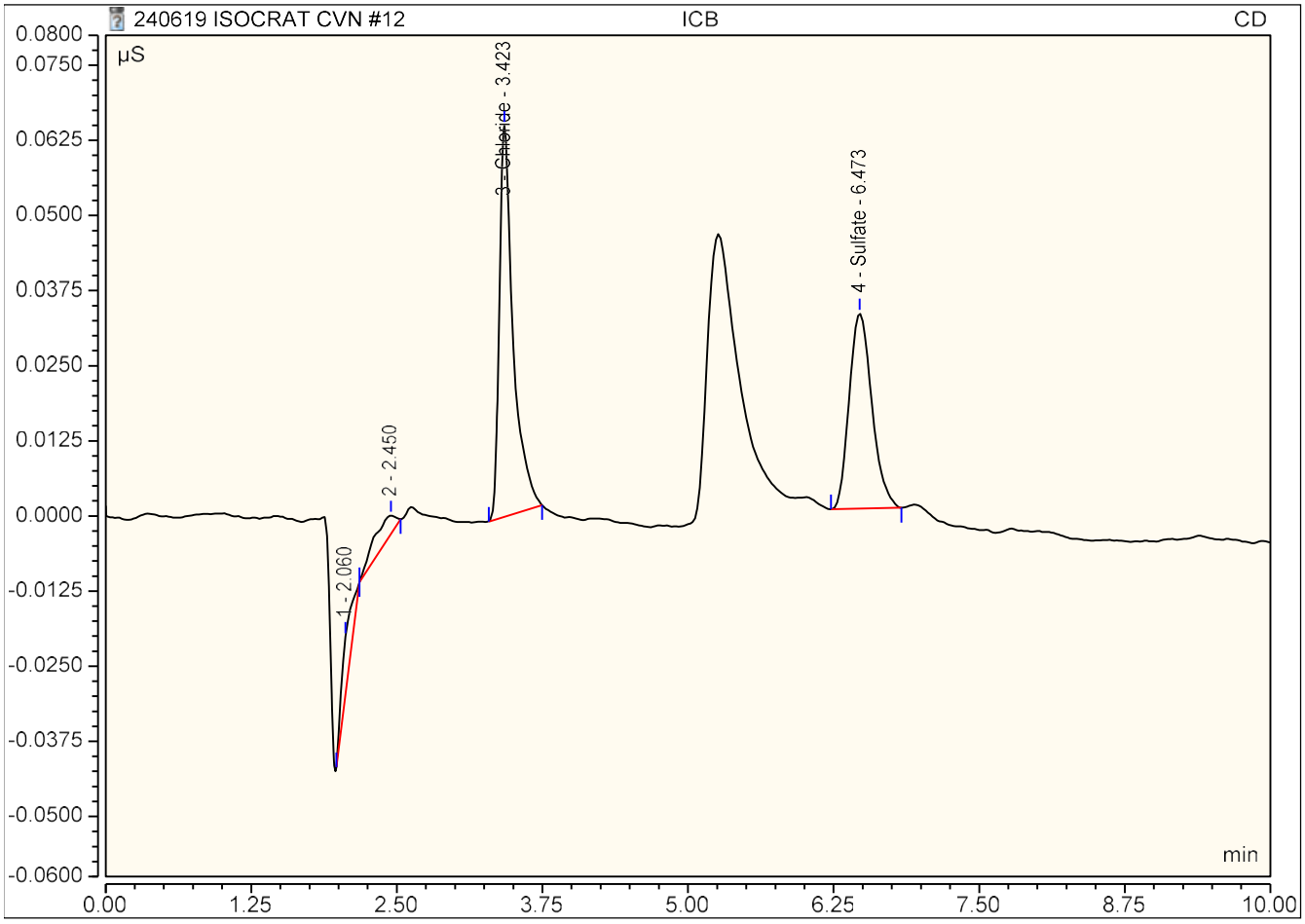
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.448	4.111	0.8008
3	3.43	**Chloride**	BMB*	3.458	24.810	8.3109
4	5.83	**Bromide**	BMB	0.092	0.501	0.8105
5	6.43	**Sulfate**	BM *	2.377	10.316	8.0985
6	6.94	**Nitrate**	MB*	0.824	3.483	0.7741
TOTAL:				7.20	43.22	18.79



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 09:26**	*Run Time:*	**10.00**

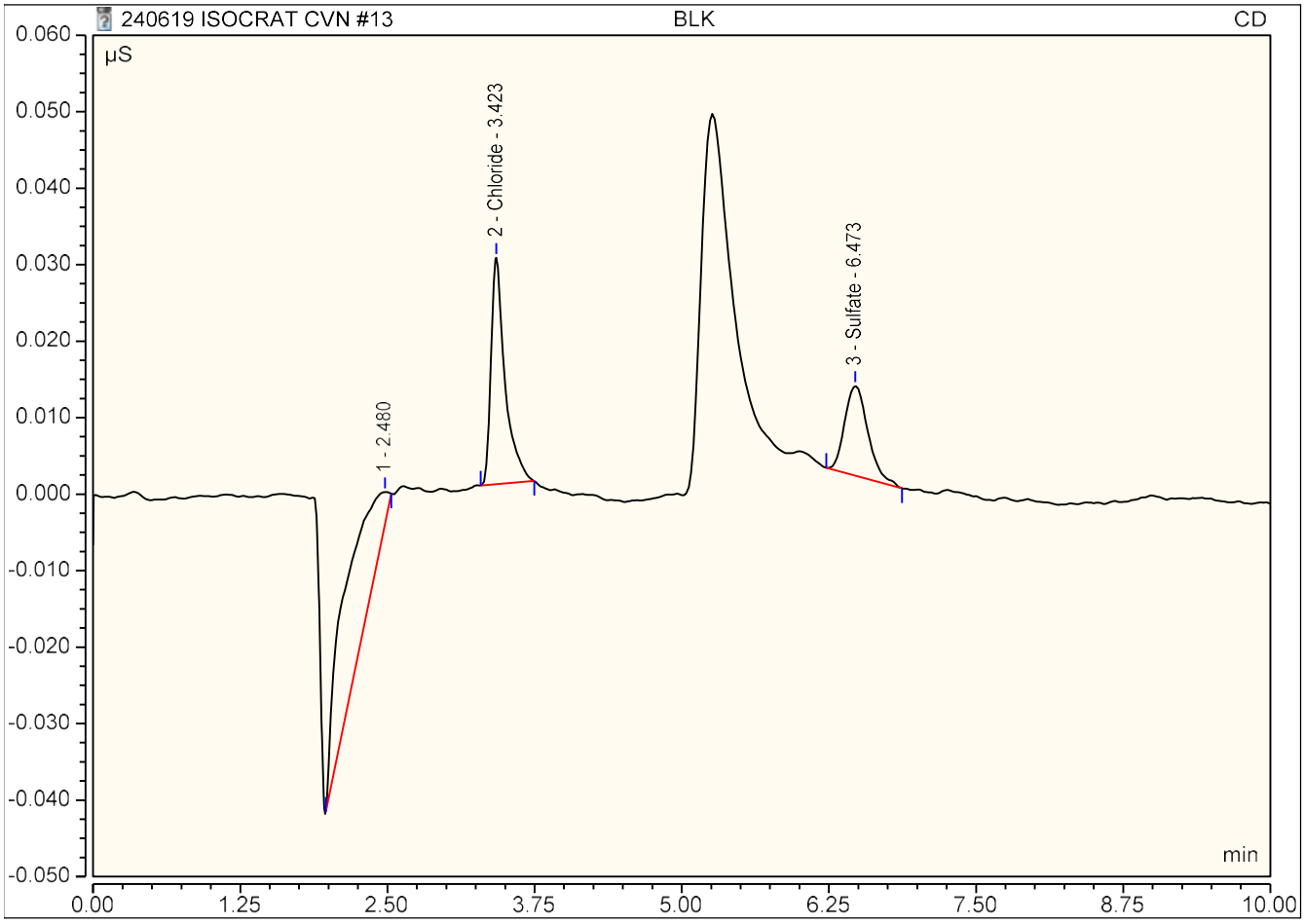
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.009	0.065	0.2542
4	6.47	**Sulfate**	BMB	0.007	0.032	0.4401
TOTAL:				0.02	0.10	0.69



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 09:38**	*Run Time:*	**10.00**

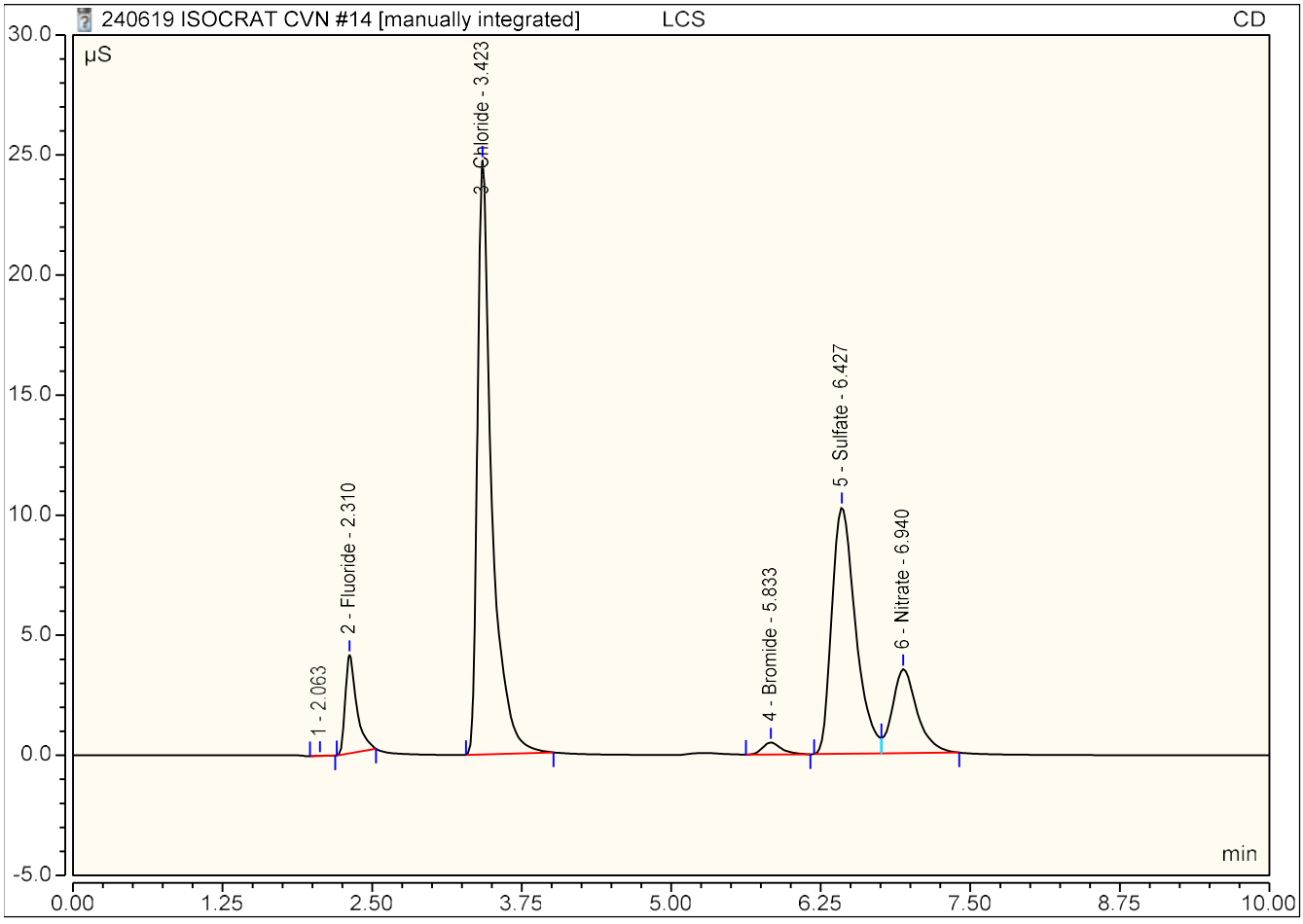
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.004	0.030	0.2429
3	6.47	**Sulfate**	BMB	0.003	0.012	0.4251
TOTAL:				0.01	0.04	0.67



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 09:50**	*Run Time:*	**10.00**

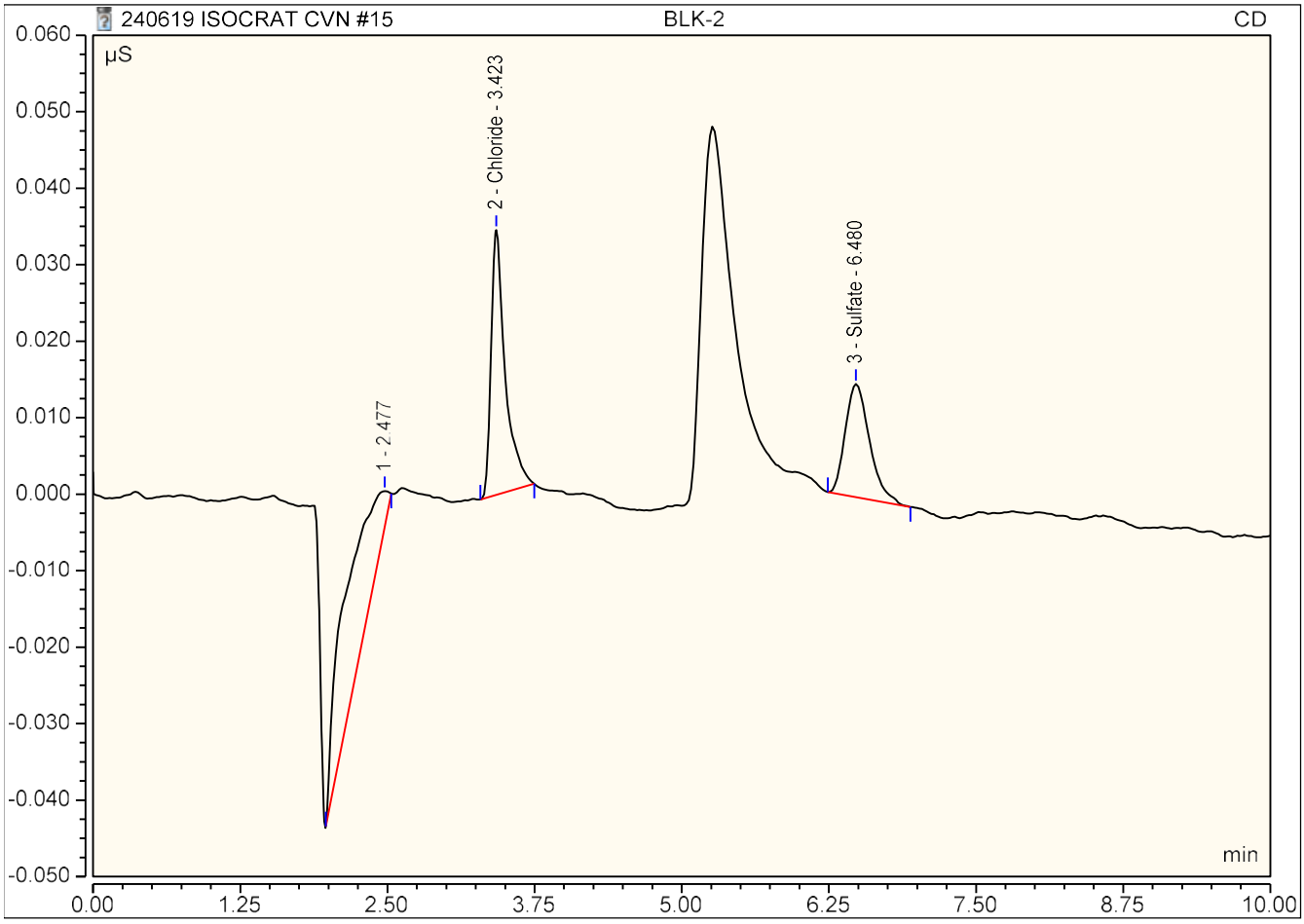
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.446	4.092	0.7971
3	3.42	**Chloride**	BMB*	3.449	24.727	8.2901
4	5.83	**Bromide**	BMB	0.092	0.497	0.8040
5	6.43	**Sulfate**	BM *	2.367	10.266	8.0669
6	6.94	**Nitrate**	MB*	0.838	3.495	0.7873
TOTAL:				7.19	43.08	18.75



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 10:03**	*Run Time:*	**10.00**

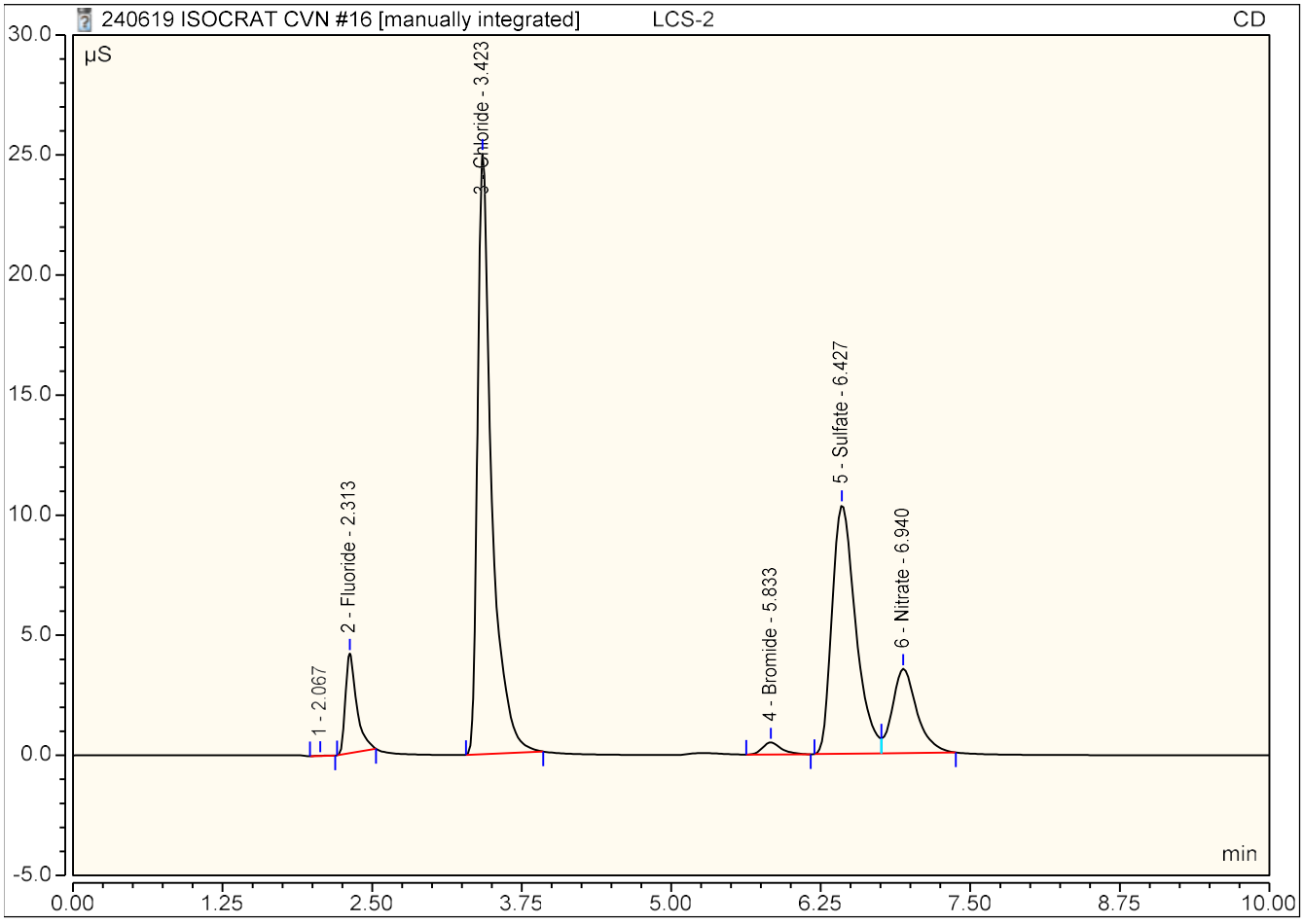
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.005	0.035	0.2446
3	6.48	**Sulfate**	BMB	0.004	0.015	0.4278
TOTAL:				0.01	0.05	0.67



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 10:15**	*Run Time:*	**10.00**

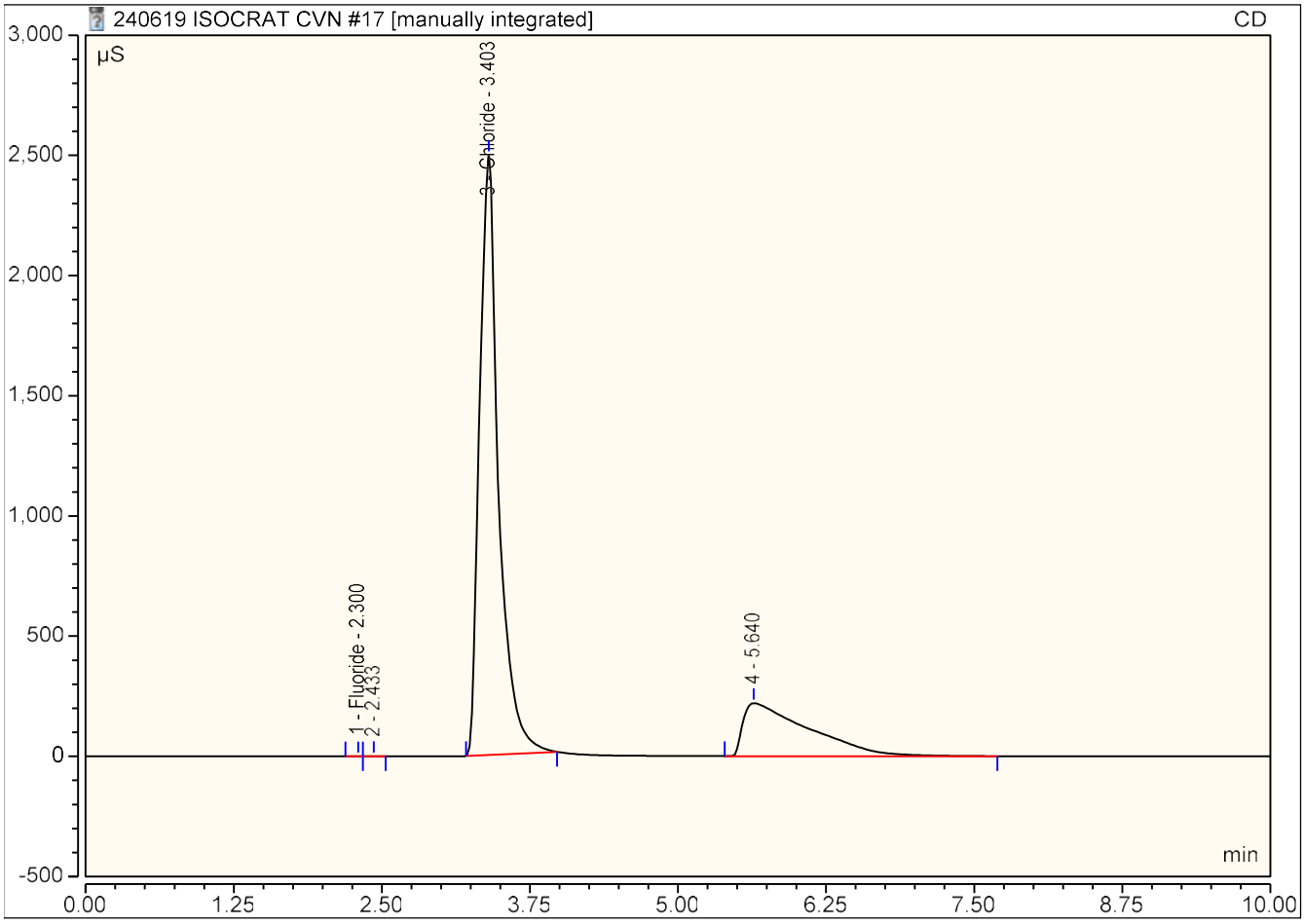
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.450	4.149	0.8036
3	3.42	**Chloride**	BMB*	3.442	25.013	8.2723
4	5.83	**Bromide**	BMB	0.092	0.502	0.8086
5	6.43	**Sulfate**	BM *	2.376	10.358	8.0959
6	6.94	**Nitrate**	MB*	0.831	3.504	0.7804
TOTAL:				7.19	43.53	18.76



Peak Integration Report

Sample Name:	**L2434420-01 CL SO4 NO3**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 10:27**	*Run Time:*	**10.00**

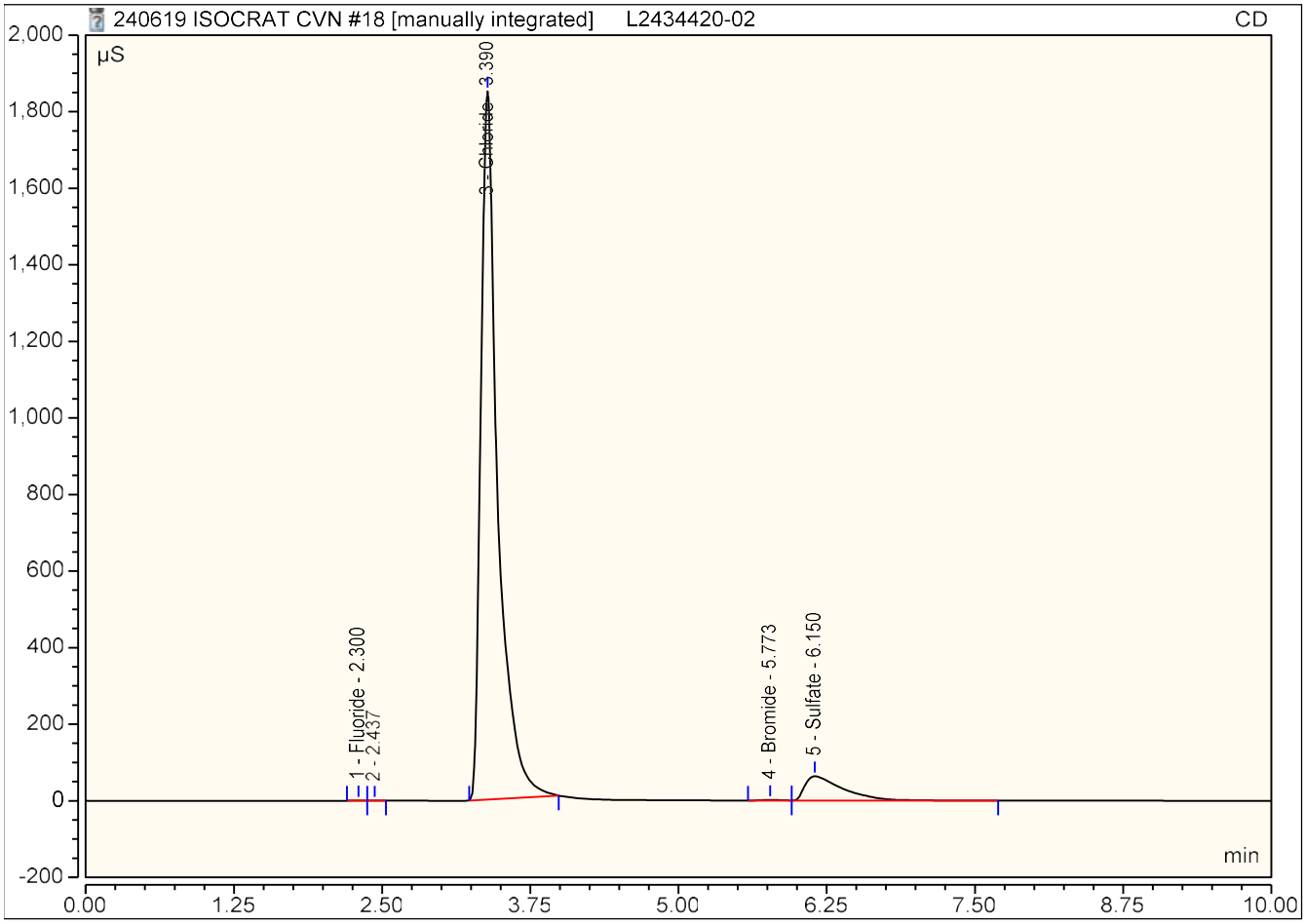
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.013	0.130	0.0721
3	3.40	**Chloride**	BMB*	462.153	2497.192	1079.7141
TOTAL:				462.17	2497.32	1079.79



Peak Integration Report

Sample Name:	**L2434420-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 10:39**	*Run Time:*	**10.00**

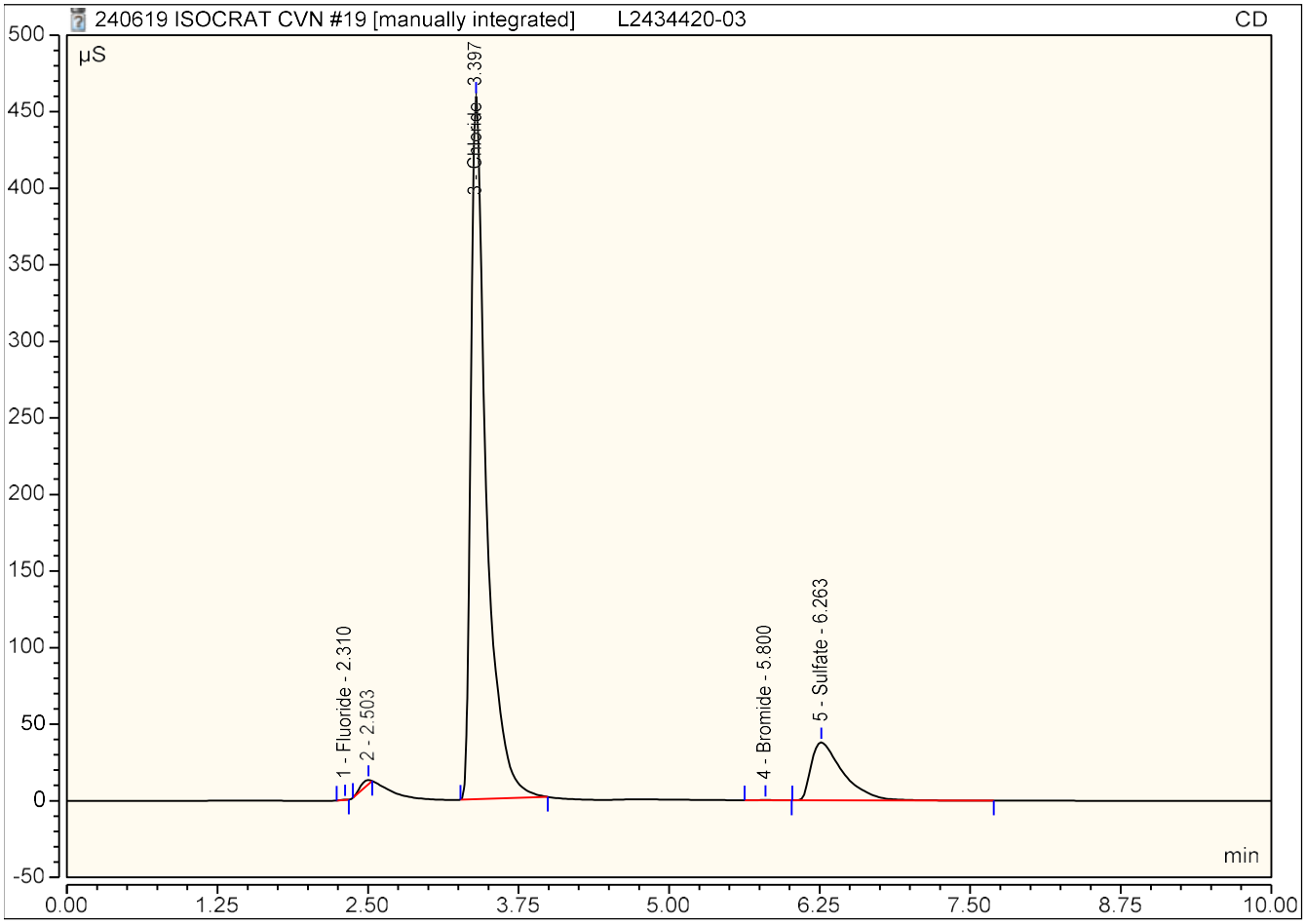
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.040	0.480	0.1185
3	3.39	**Chloride**	BMB*	304.725	1849.791	712.0004
4	5.77	**Bromide**	BMB	0.267	1.653	2.2745
5	6.15	**Sulfate**	BMB	23.300	63.204	75.7102
TOTAL:				328.33	1915.13	790.10



Peak Integration Report

Sample Name:	**L2434420-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 10:51**	*Run Time:*	**10.00**

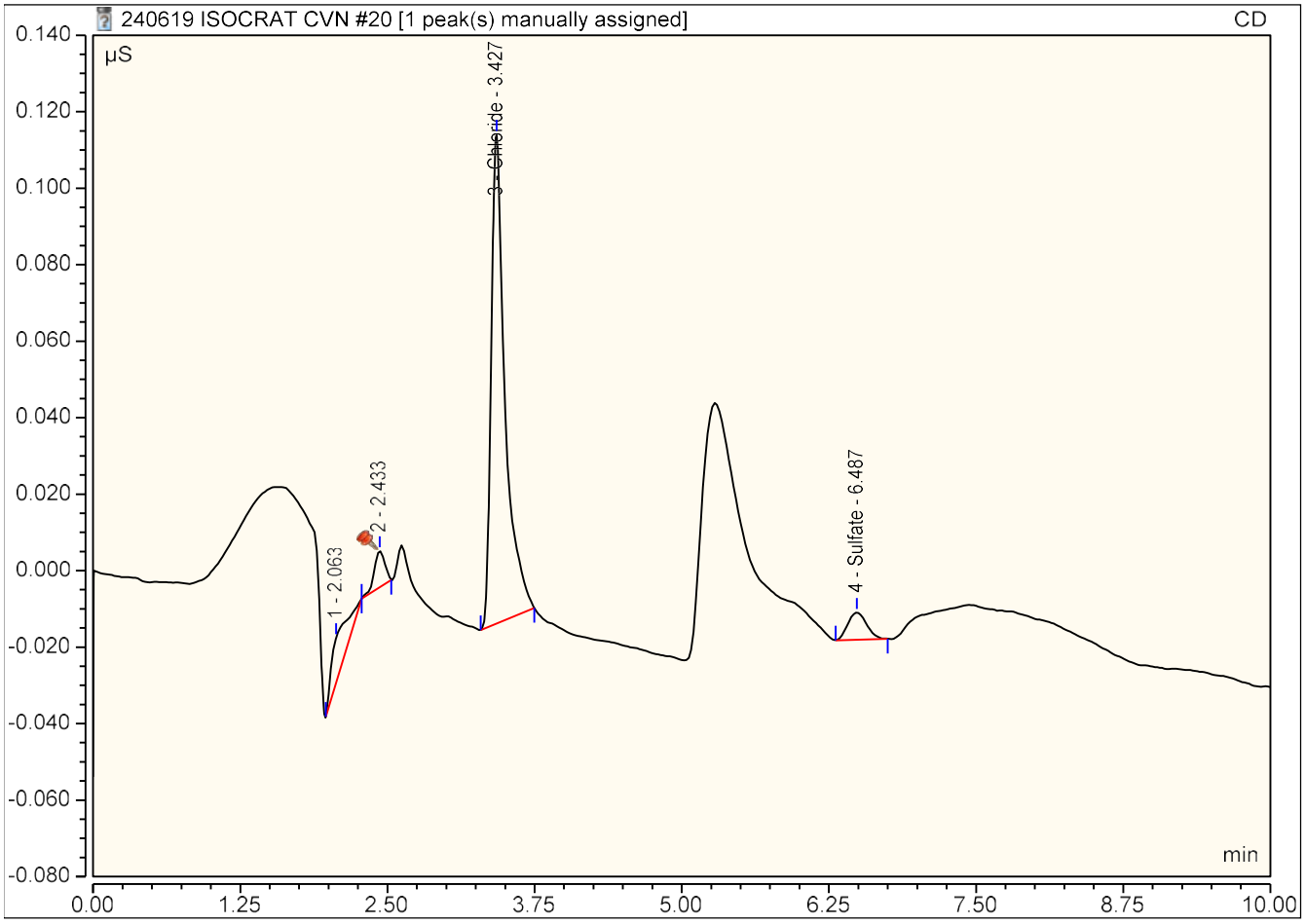
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.014	0.221	0.0744
3	3.40	**Chloride**	BMB*	68.833	458.752	161.0113
4	5.80	**Bromide**	BMB	0.029	0.173	0.2816
5	6.26	**Sulfate**	BMB	11.642	37.928	38.0383
TOTAL:				80.52	497.07	199.41



Peak Integration Report

Sample Name:	**L2434420-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 11:03**	*Run Time:*	**10.00**

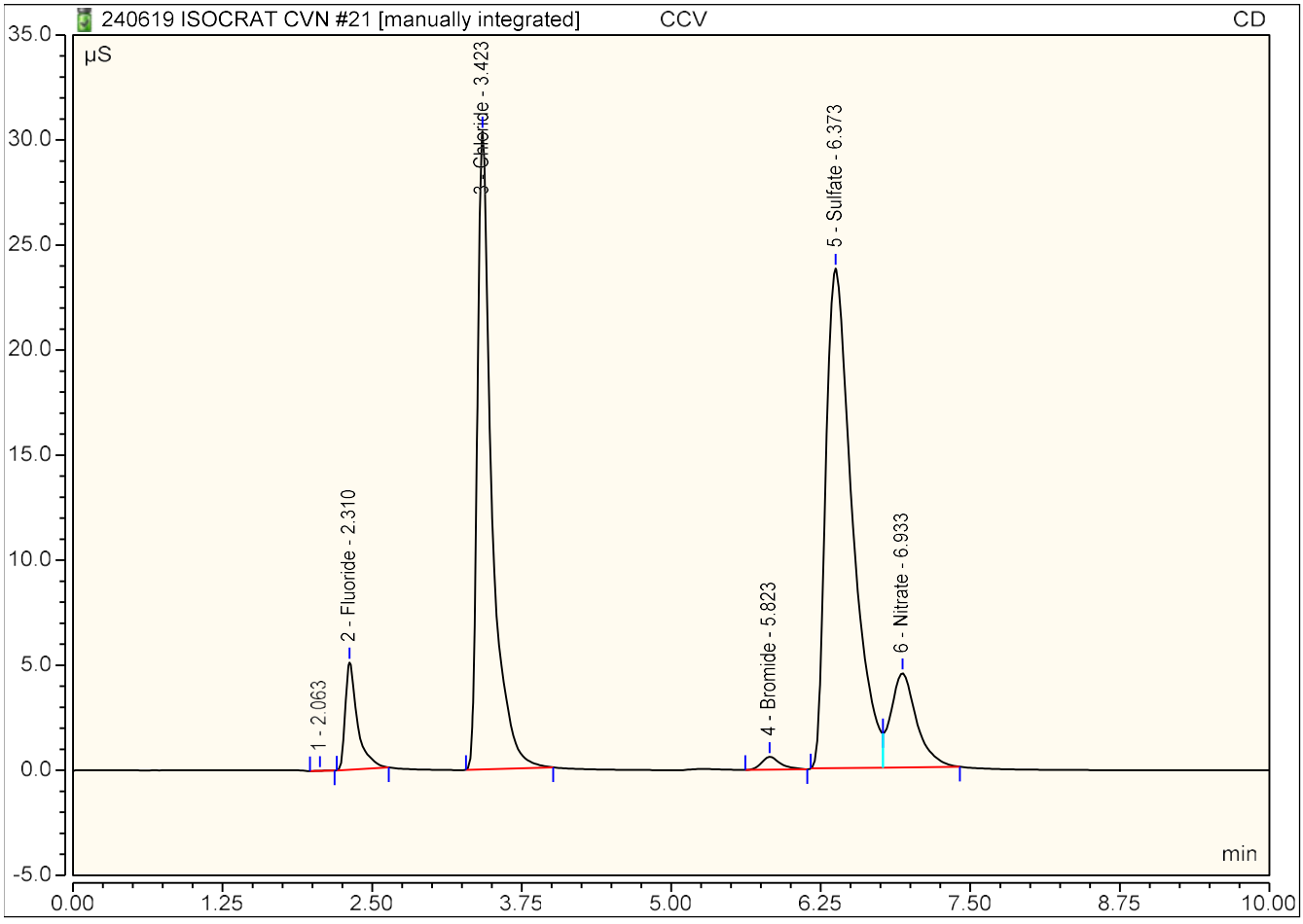
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB	0.017	0.128	0.2740
4	6.49	**Sulfate**	BMB	0.001	0.007	0.4206
TOTAL:				0.02	0.13	0.69



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 11:15**	*Run Time:*	**10.00**

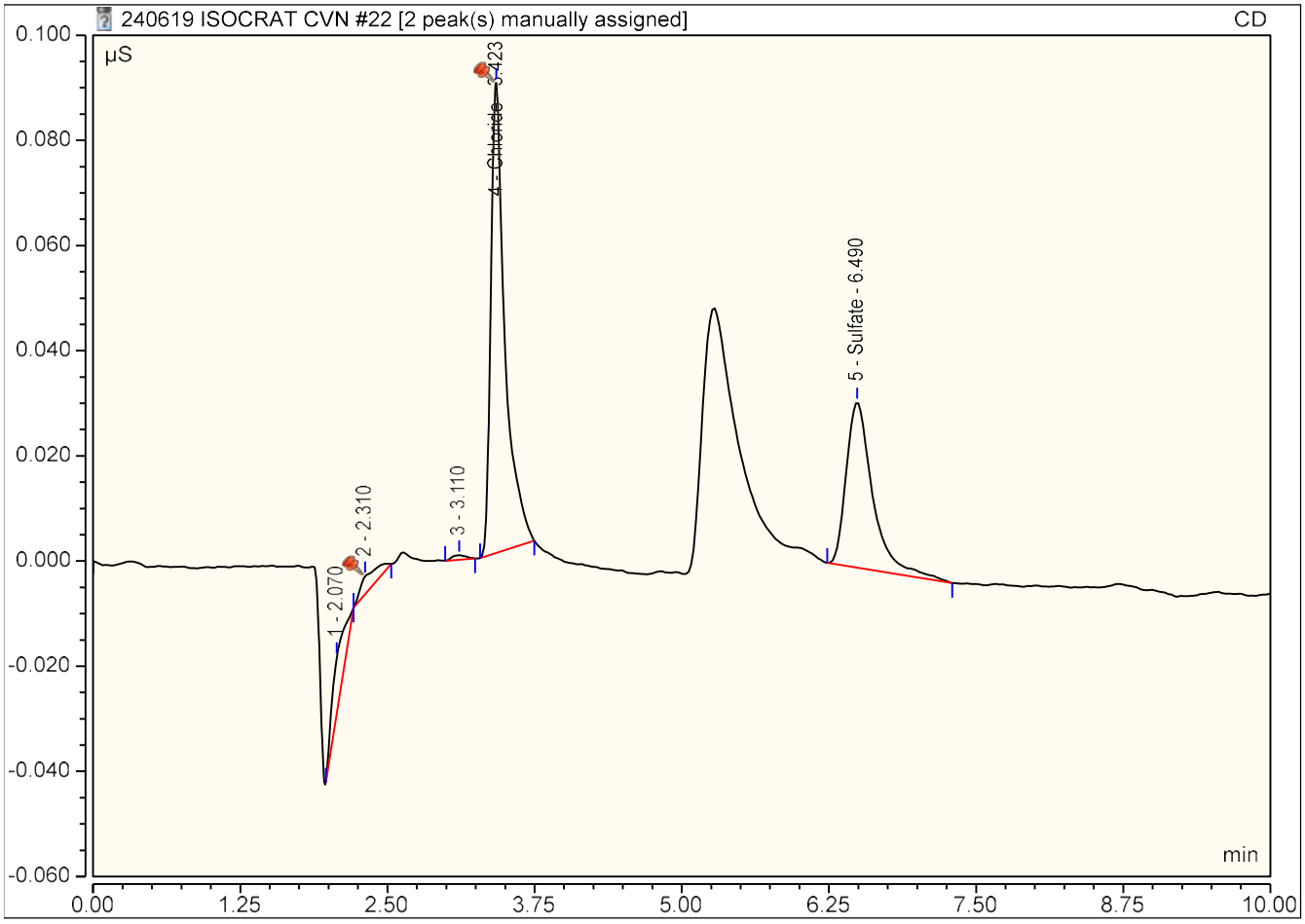
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.600	5.107	1.0540
3	3.42	**Chloride**	BMB*	4.254	30.365	10.1692
4	5.82	**Bromide**	BMB	0.110	0.608	0.9549
5	6.37	**Sulfate**	BM *	6.118	23.781	20.1870
6	6.93	**Nitrate**	MB*	1.128	4.488	1.0485
TOTAL:				12.21	64.35	33.41



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 11:27**	*Run Time:*	**10.00**

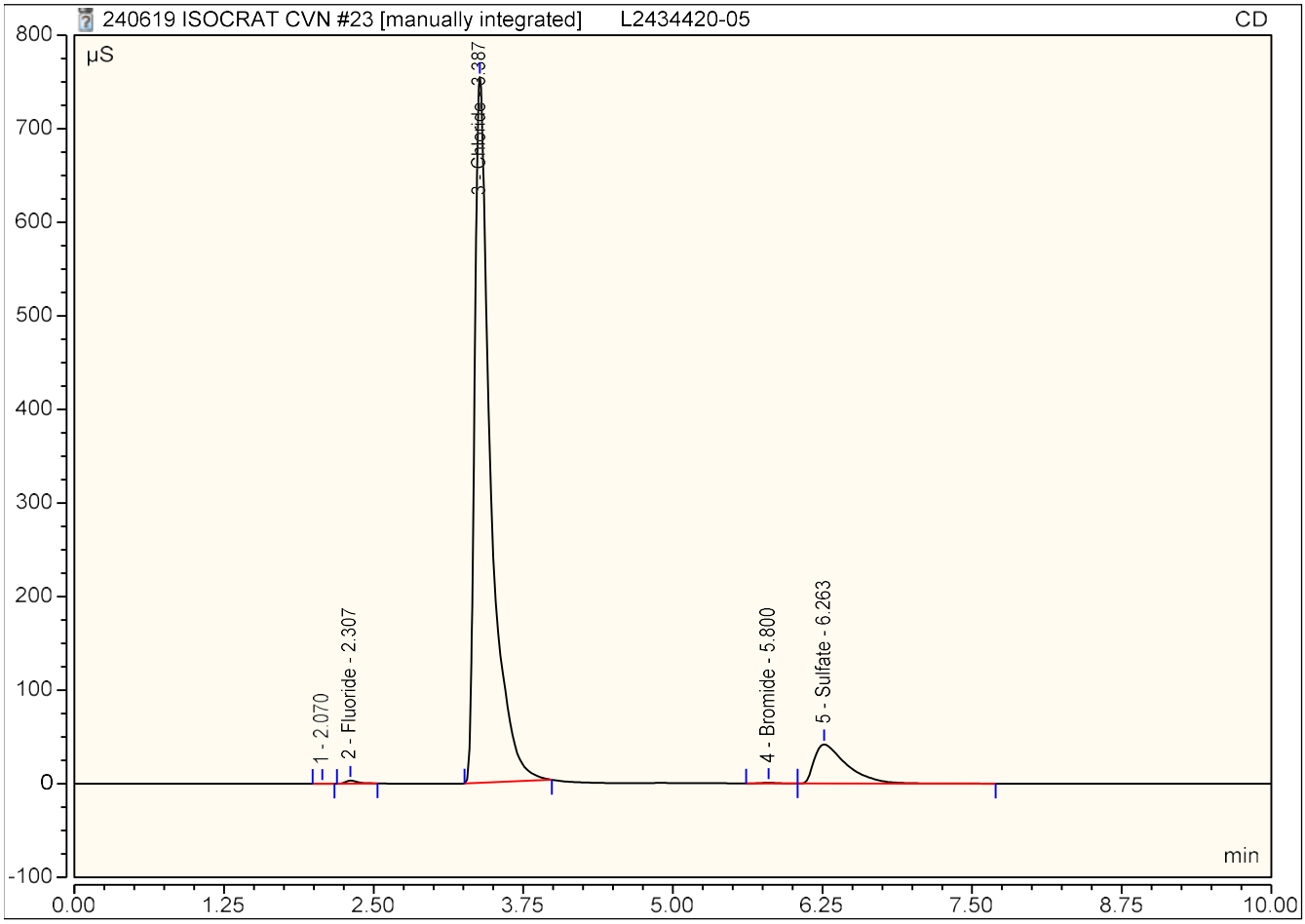
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
4	3.42	**Chloride**	BMB^	0.012	0.089	0.2623
5	6.49	**Sulfate**	BMB	0.008	0.031	0.4429
TOTAL:				0.02	0.12	0.71



Peak Integration Report

Sample Name:	**L2434420-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 11:39**	*Run Time:*	**10.00**

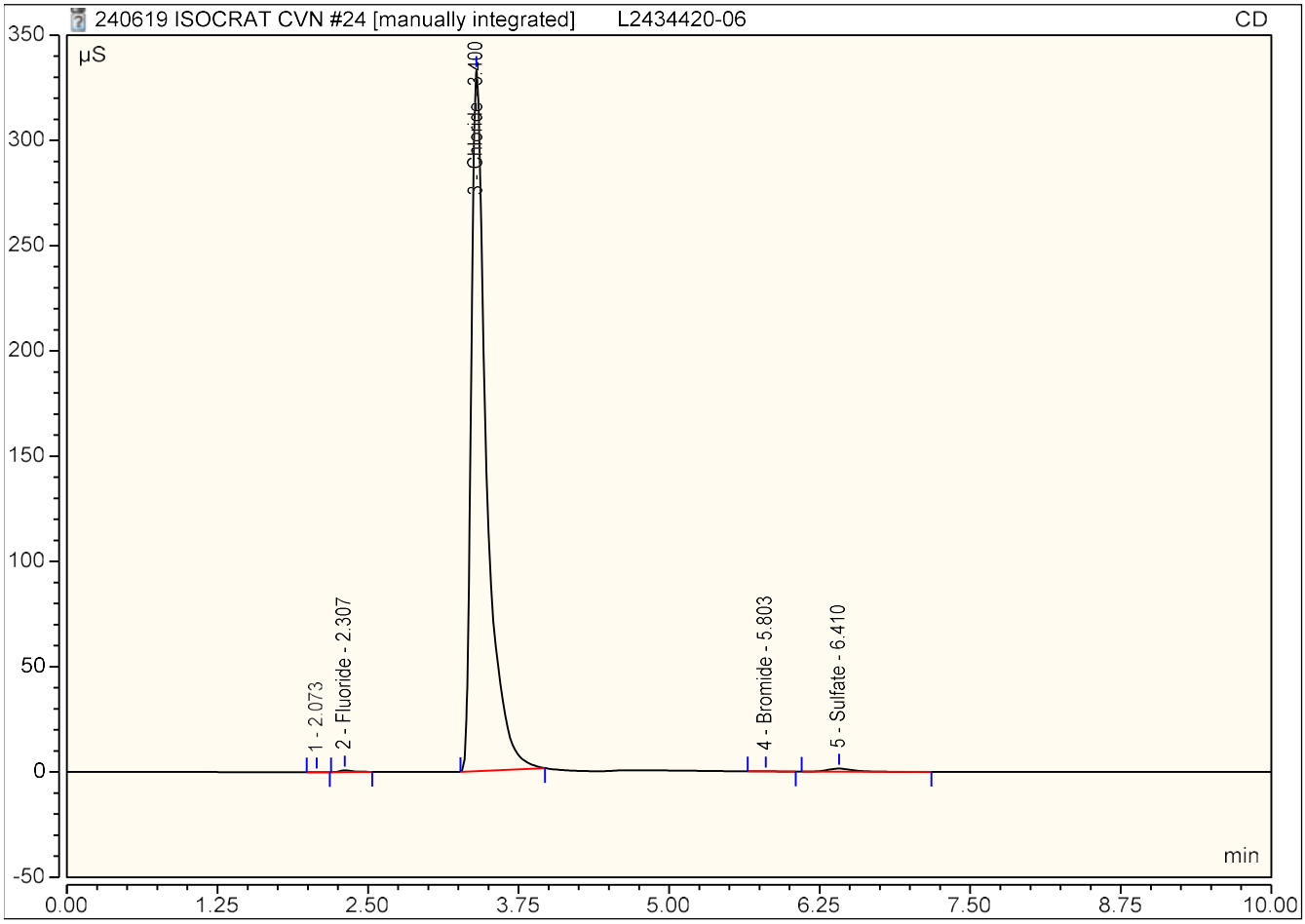
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.386	3.343	0.6963
3	3.39	**Chloride**	BMB*	116.933	754.112	273.3614
4	5.80	**Bromide**	BMB	0.100	0.588	0.8733
5	6.26	**Sulfate**	BMB	13.069	41.883	42.6503
TOTAL:				130.49	799.93	317.58



Peak Integration Report

Sample Name:	**L2434420-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 11:51**	*Run Time:*	**10.00**

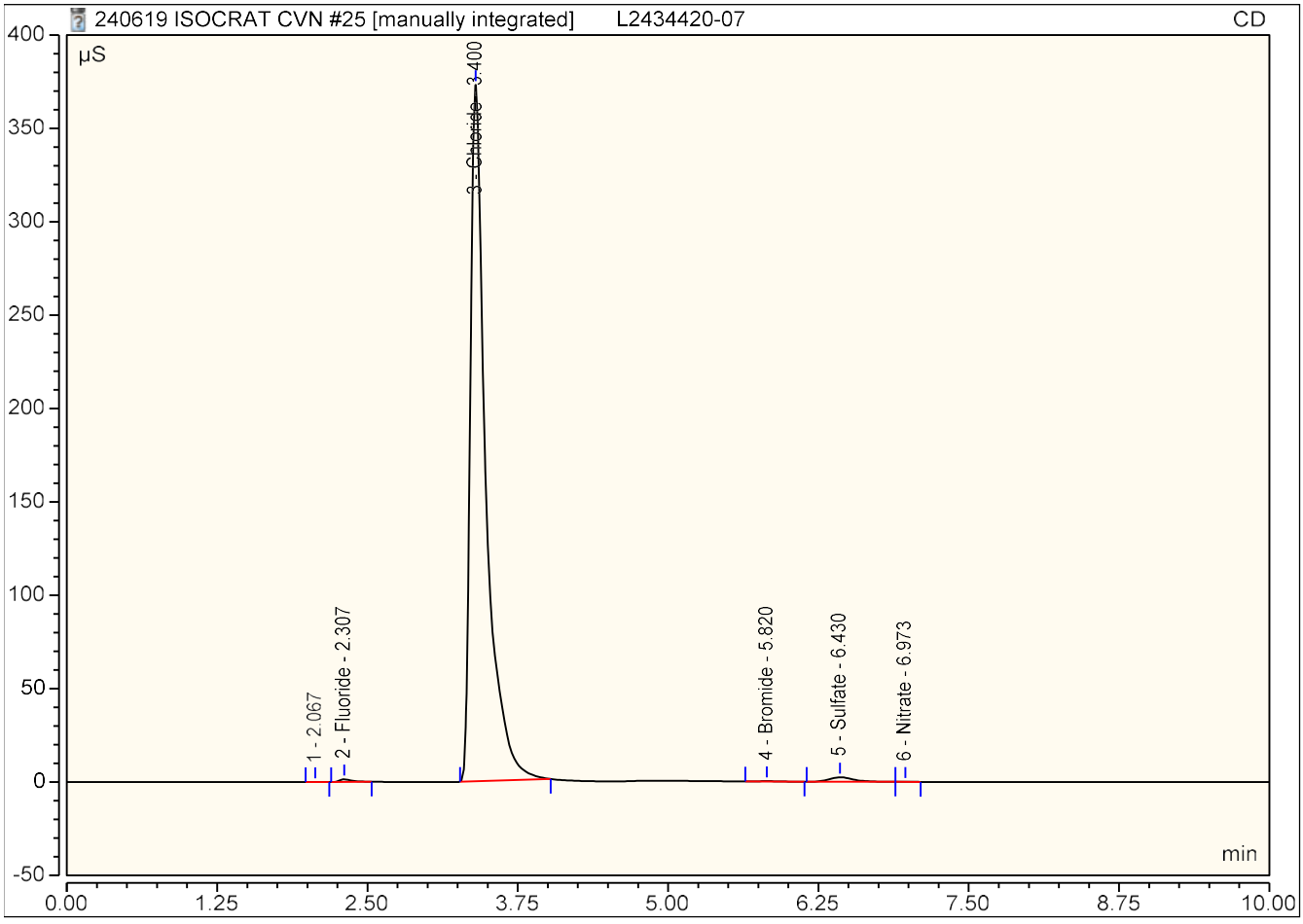
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.097	0.827	0.2130
3	3.40	**Chloride**	BMB*	49.197	332.577	115.1458
4	5.80	**Bromide**	BMB	0.013	0.076	0.1434
5	6.41	**Sulfate**	BMB	0.379	1.509	1.6398
TOTAL:				49.69	334.99	117.14



Peak Integration Report

Sample Name:	**L2434420-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 12:03**	*Run Time:*	**10.00**

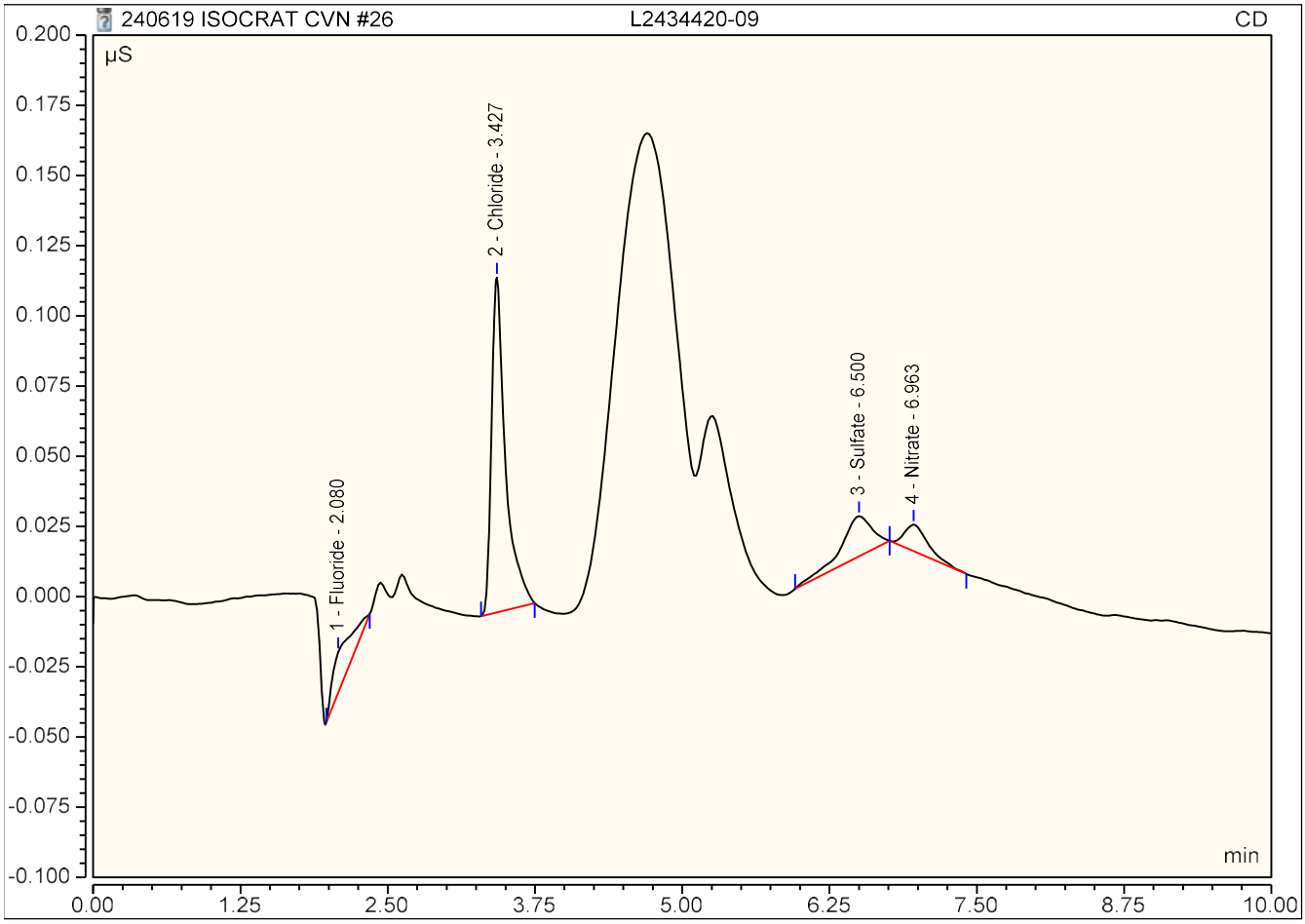
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.166	1.471	0.3283
3	3.40	**Chloride**	BMB*	55.837	372.888	130.6546
4	5.82	**Bromide**	BMB	0.041	0.217	0.3806
5	6.43	**Sulfate**	BMB	0.556	2.384	2.2129
6	6.97	**Nitrate**	BMB	0.001	0.008	0.0314
TOTAL:				56.60	376.97	133.61



Peak Integration Report

Sample Name:	**L2434420-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 12:16**	*Run Time:*	**10.00**

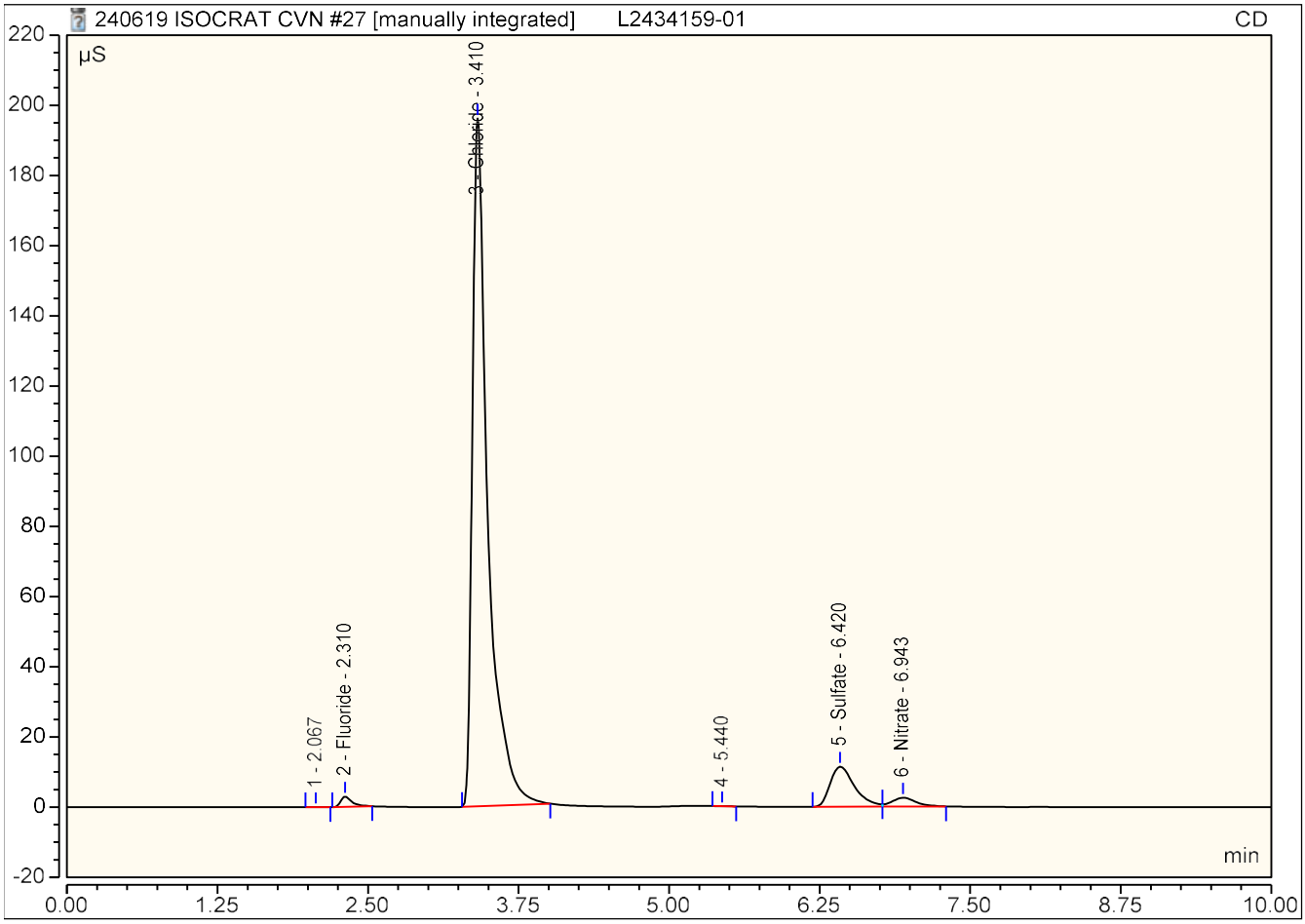
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.08	**Fluoride**	BMB	0.003	0.014	0.0560
2	3.43	**Chloride**	BMB	0.016	0.119	0.2714
3	6.50	**Sulfate**	BMB	0.004	0.014	0.4306
4	6.96	**Nitrate**	BMB	0.002	0.009	0.0326
TOTAL:				0.03	0.16	0.79



Peak Integration Report

Sample Name:	**L2434159-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 12:28**	*Run Time:*	**10.00**

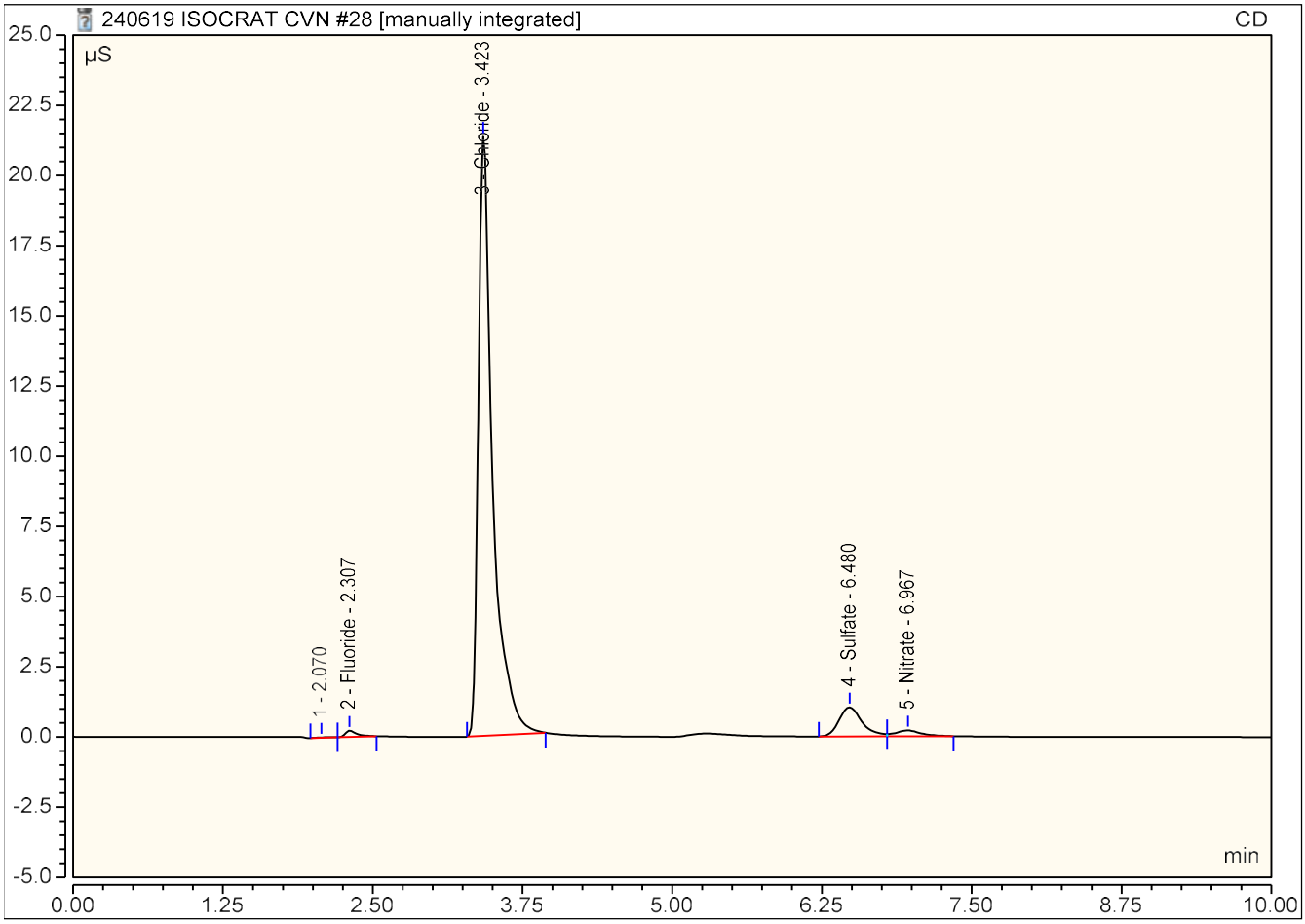
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.325	2.982	0.5941
3	3.41	**Chloride**	BMB*	28.973	195.921	67.9073
5	6.42	**Sulfate**	BM *	2.691	11.442	9.1132
6	6.94	**Nitrate**	MB*	0.587	2.540	0.5602
TOTAL:				32.58	212.88	78.17



Peak Integration Report

Sample Name:	**L2434159-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 12:40**	*Run Time:*	**10.00**

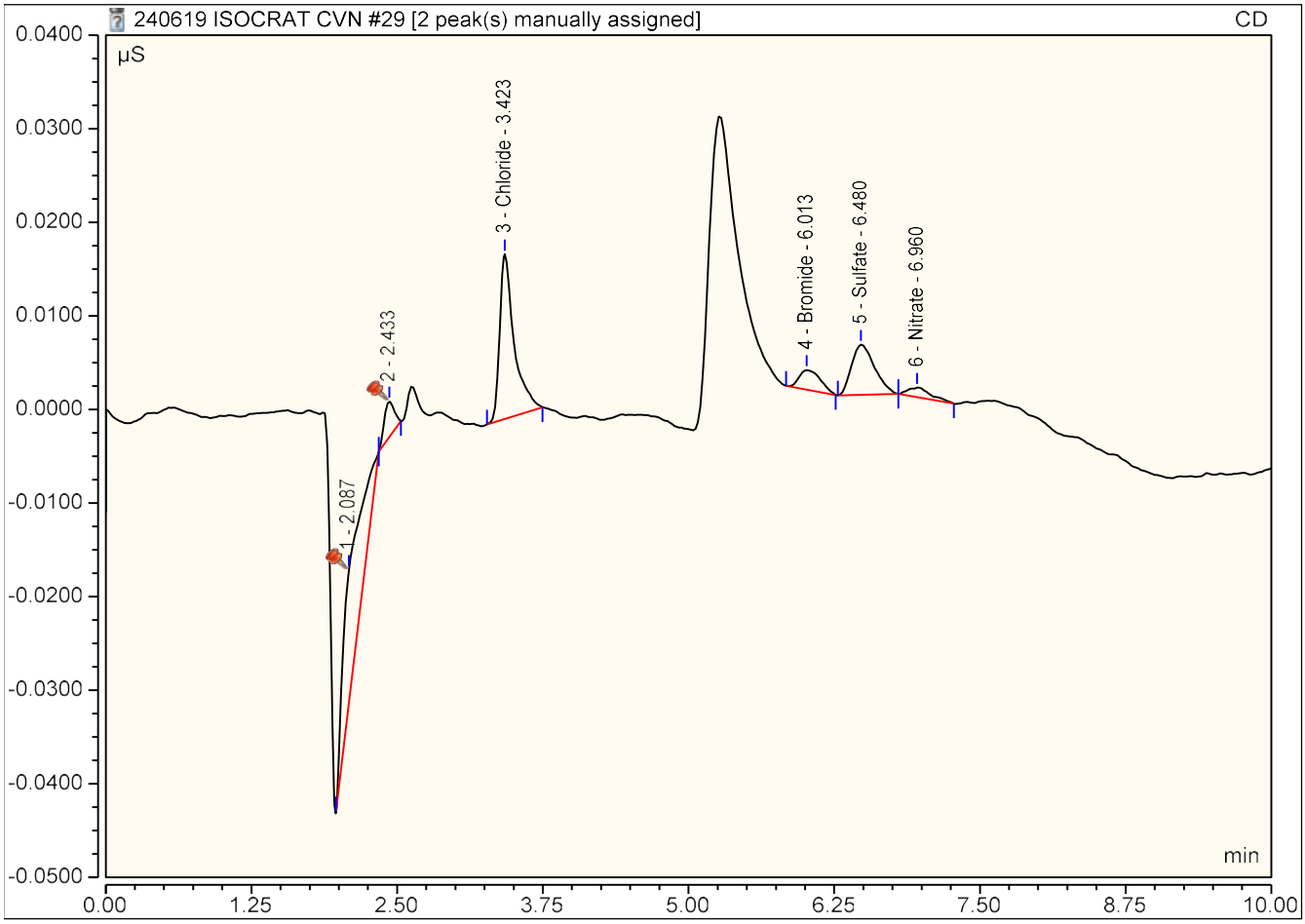
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.025	0.222	0.9285
3	3.42	**Chloride**	BMB*	2.954	21.344	71.3231
4	6.48	**Sulfate**	BM *	0.233	1.040	11.7062
5	6.97	**Nitrate**	MB*	0.052	0.208	0.7727
TOTAL:				3.26	22.81	84.73



Peak Integration Report

Sample Name:	**L2434159-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 12:52**	*Run Time:*	**10.00**

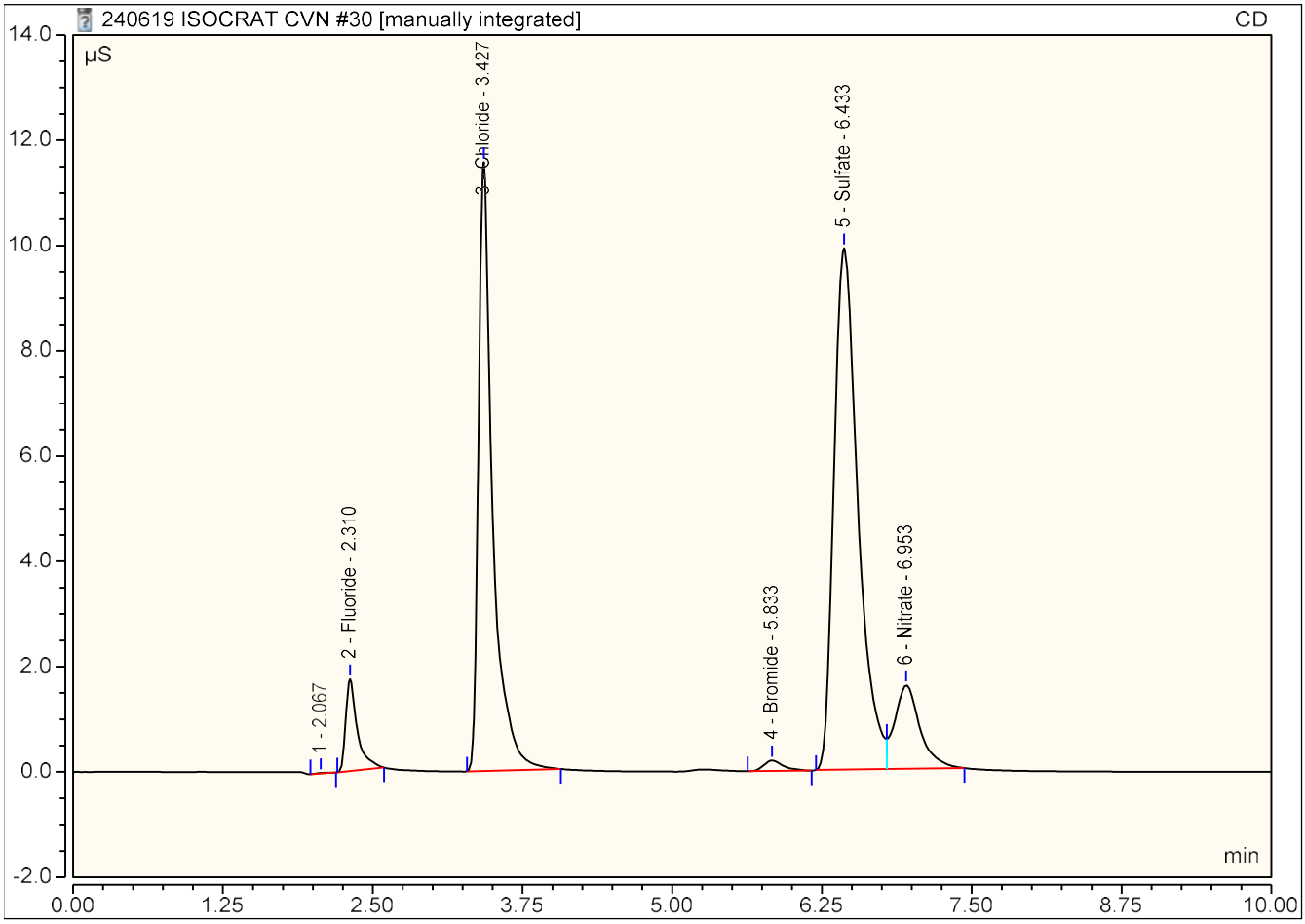
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.003	0.018	0.2392
4	6.01	**Bromide**	BMB	0.000	0.002	0.0405
5	6.48	**Sulfate**	BMB	0.001	0.005	0.4204
6	6.96	**Nitrate**	BMB	0.000	0.001	0.0308
TOTAL:				0.00	0.03	0.73



Peak Integration Report

Sample Name:	**L2434159-03 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 13:04**	*Run Time:*	**10.00**

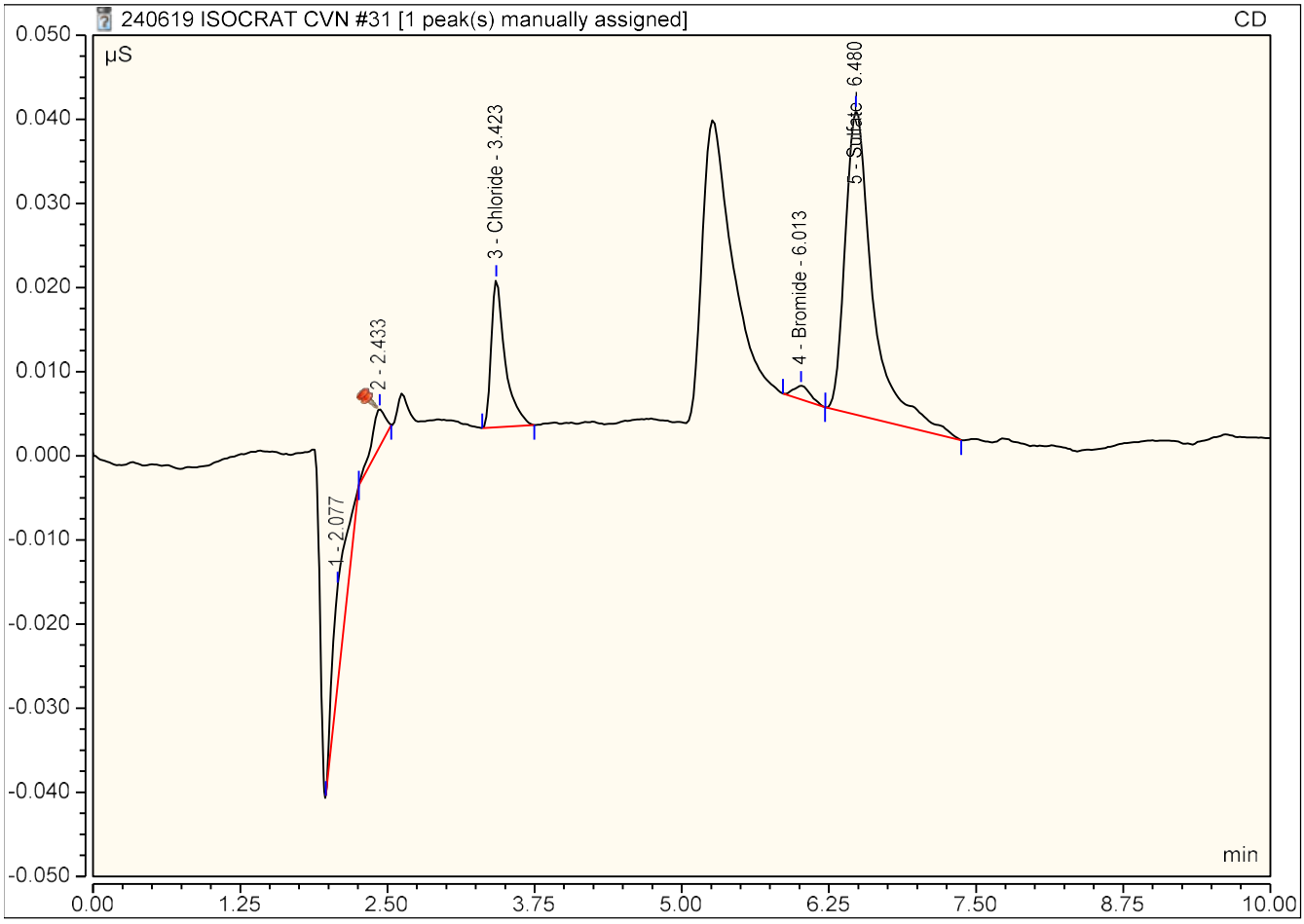
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.195	1.745	0.3775
3	3.43	**Chloride**	BMB*	1.592	11.565	3.9519
4	5.83	**Bromide**	BMB	0.038	0.201	0.3550
5	6.43	**Sulfate**	BM *	2.304	9.906	7.8610
6	6.95	**Nitrate**	MB*	0.391	1.591	0.3837
TOTAL:				4.52	25.01	12.93



Peak Integration Report

Sample Name:	**L2434159-03 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 13:16**	*Run Time:*	**10.00**

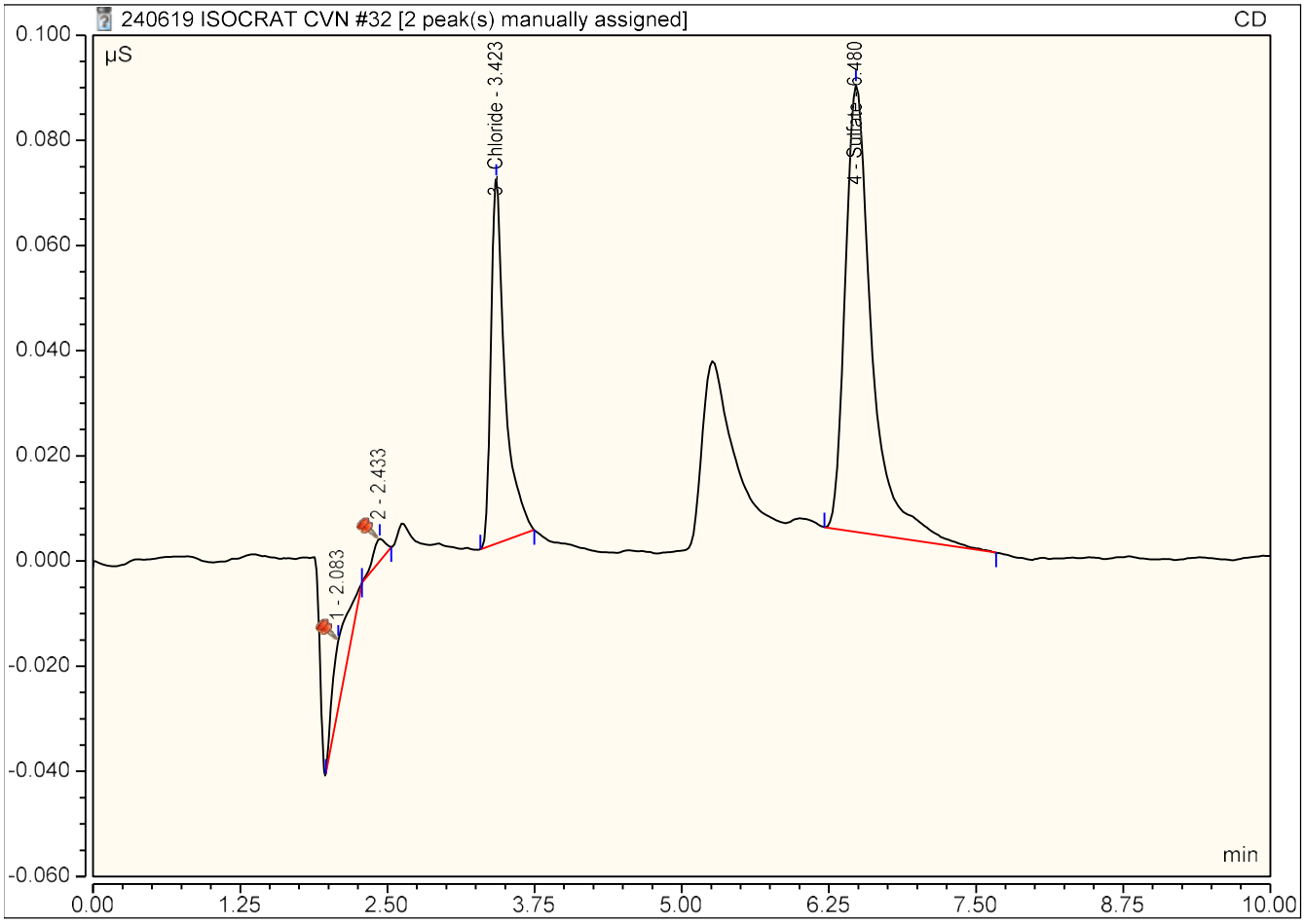
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.002	0.018	0.2390
4	6.01	**Bromide**	BMB	0.000	0.002	0.0390
5	6.48	**Sulfate**	BMB	0.010	0.036	0.4482
TOTAL:				0.01	0.06	0.73



Peak Integration Report

Sample Name:	**L2434159-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 13:28**	*Run Time:*	**10.00**

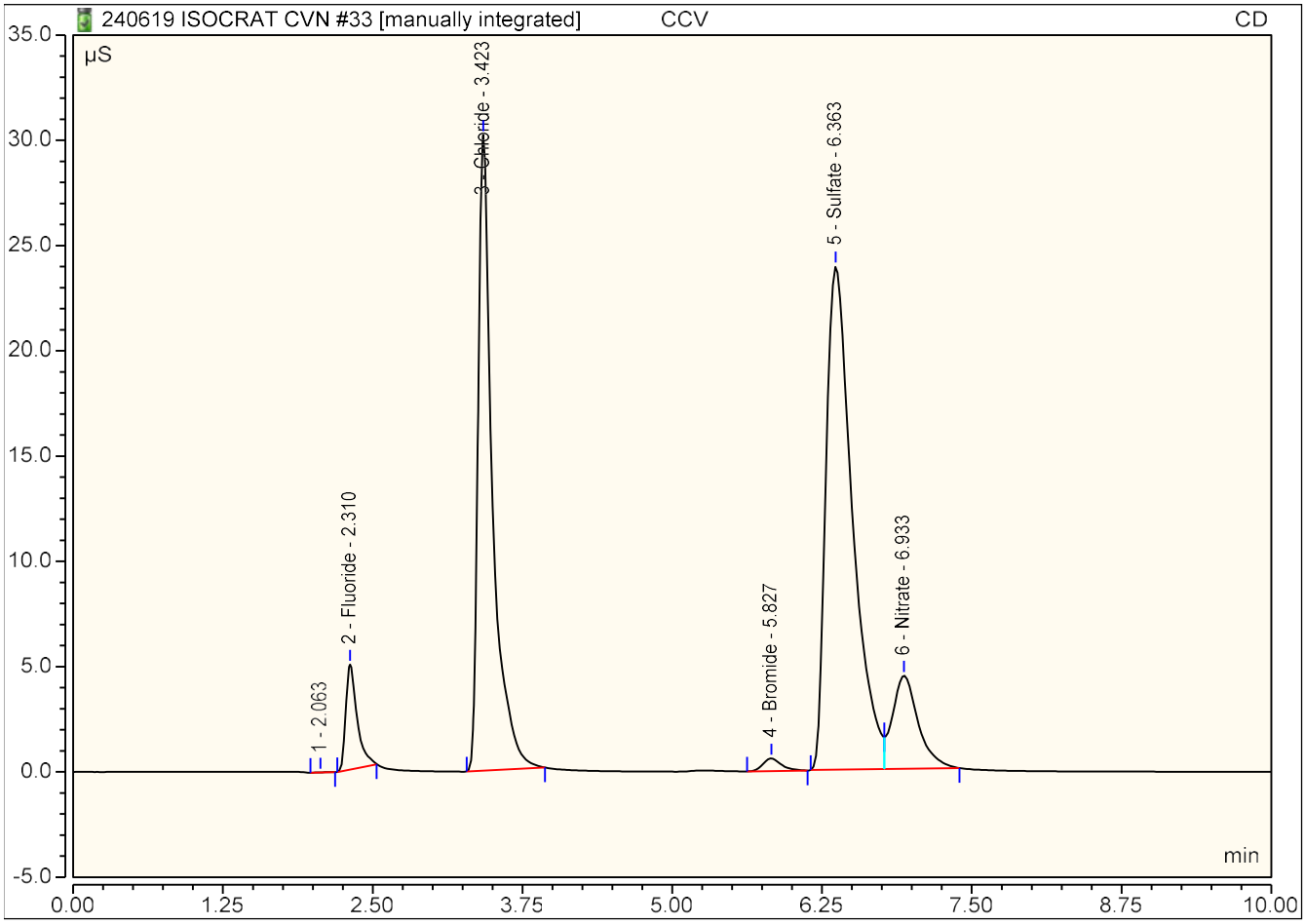
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.010	0.069	0.2557
4	6.48	**Sulfate**	BMB	0.022	0.085	0.4888
TOTAL:				0.03	0.15	0.74



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 13:40**	*Run Time:*	**10.00**

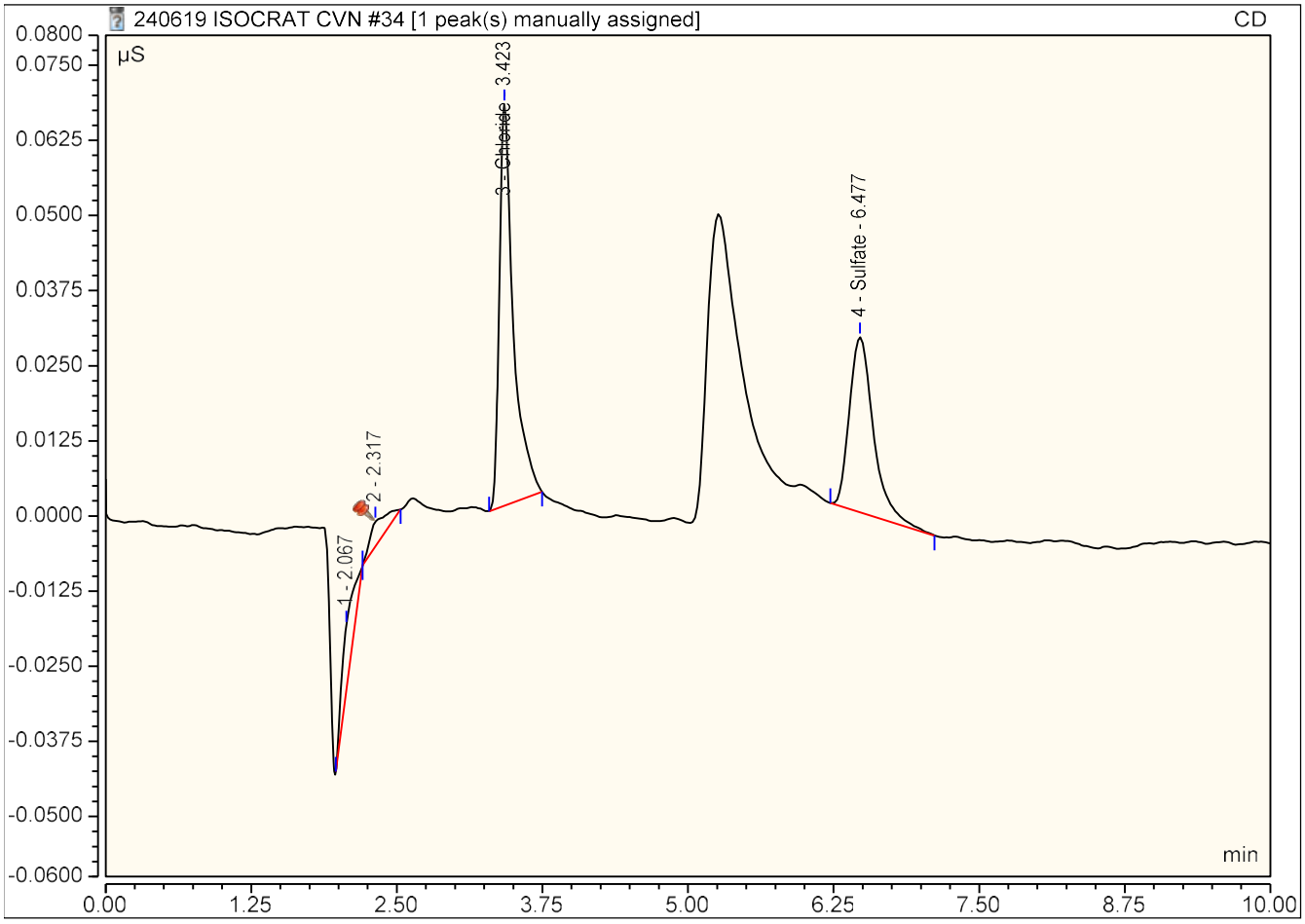
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.542	4.986	0.9583
3	3.42	**Chloride**	BMB*	4.214	30.188	10.0760
4	5.83	**Bromide**	BMB	0.107	0.601	0.9373
5	6.36	**Sulfate**	BM *	6.136	23.910	20.2449
6	6.93	**Nitrate**	MB*	1.104	4.424	1.0270
TOTAL:				12.10	64.11	33.24



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 13:52**	*Run Time:*	**10.00**

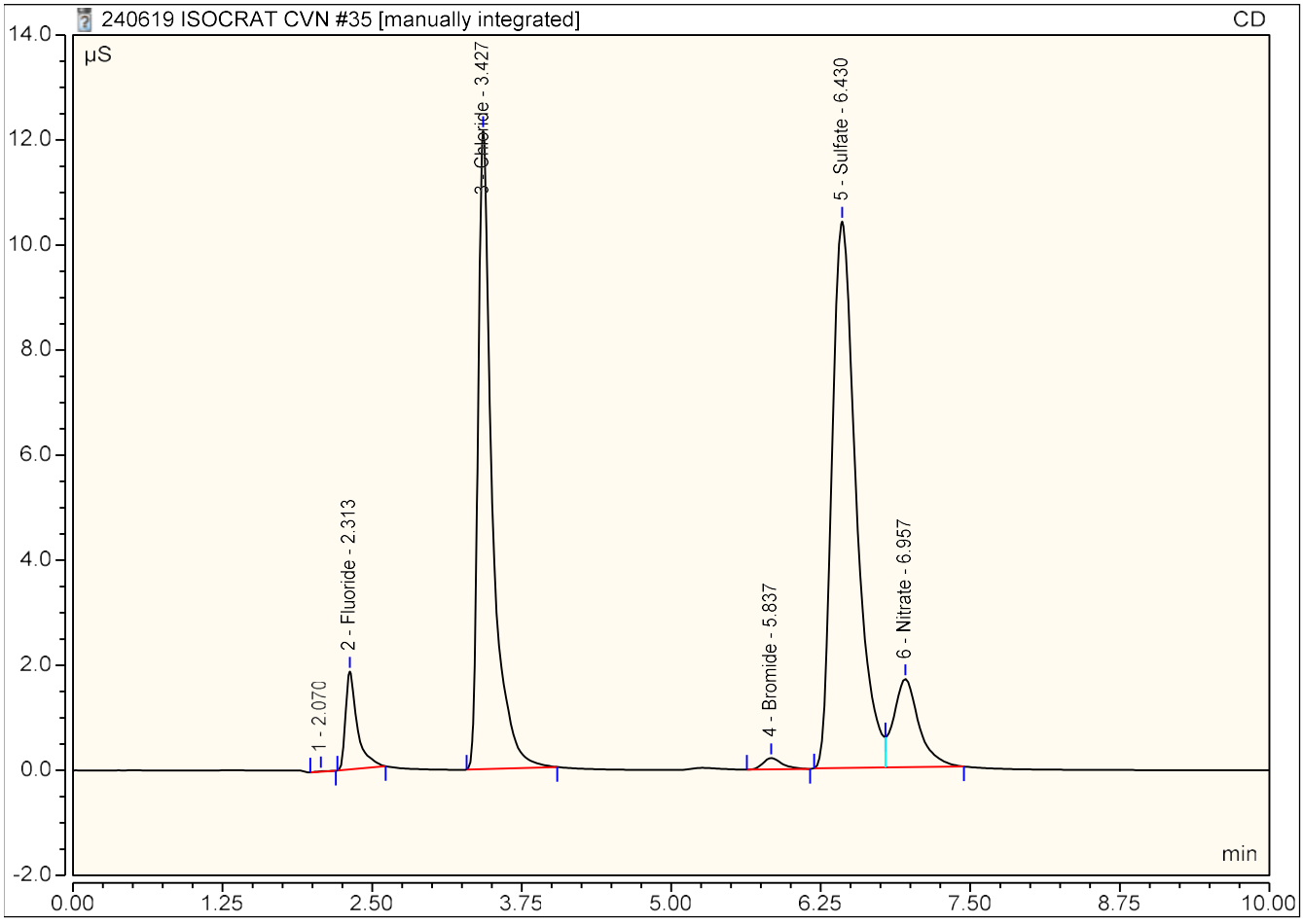
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.009	0.067	0.2551
4	6.48	**Sulfate**	BMB	0.007	0.029	0.4390
TOTAL:				0.02	0.10	0.69



Peak Integration Report

Sample Name:	**L2434159-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 14:04**	*Run Time:*	**10.00**

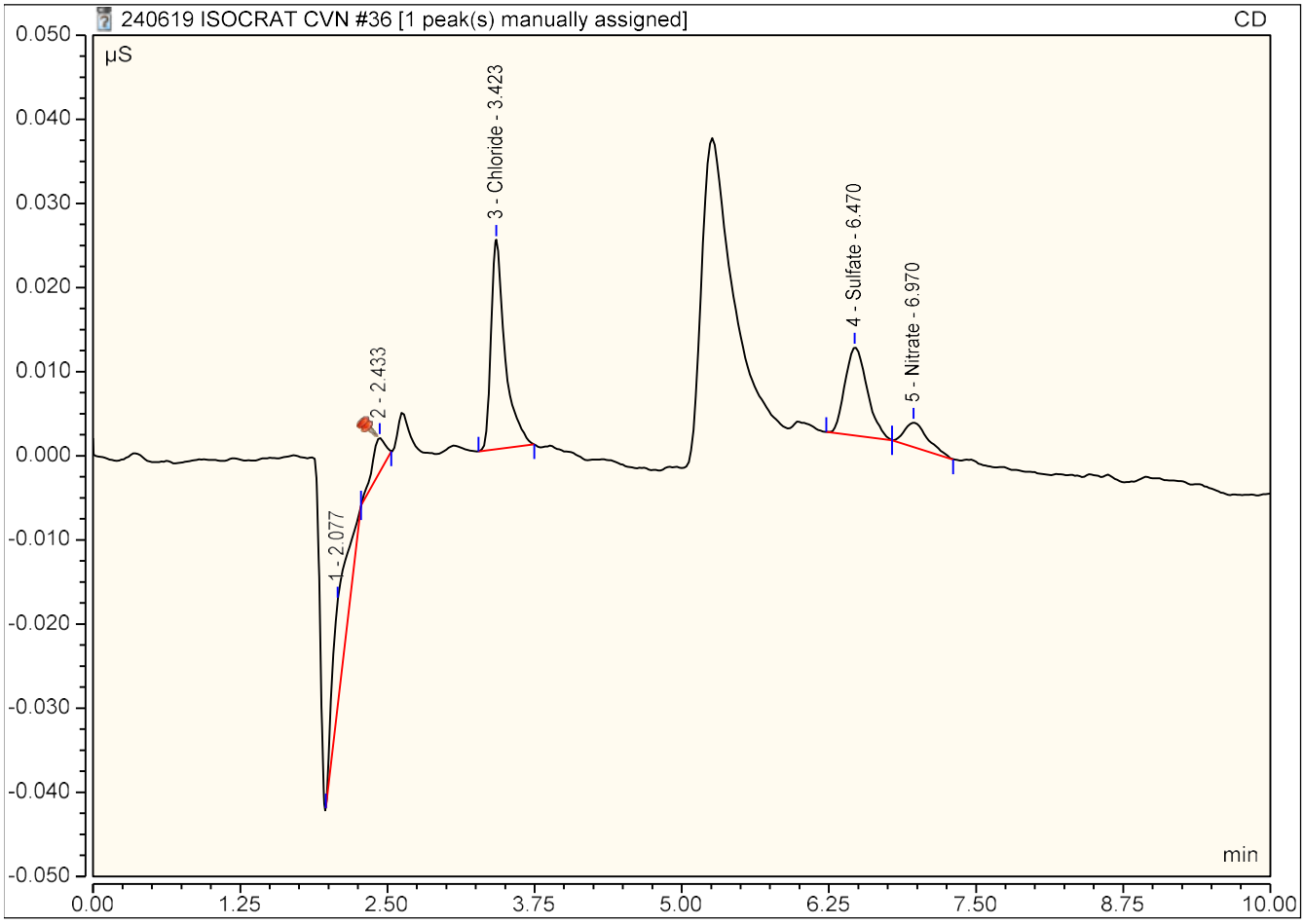
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.211	1.865	0.4038
3	3.43	**Chloride**	BMB*	1.674	12.153	4.1445
4	5.84	**Bromide**	BMB	0.040	0.214	0.3728
5	6.43	**Sulfate**	BM *	2.432	10.405	8.2749
6	6.96	**Nitrate**	MB*	0.413	1.678	0.4037
TOTAL:				4.77	26.31	13.60



Peak Integration Report

Sample Name:	**L2434159-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 14:16**	*Run Time:*	**10.00**

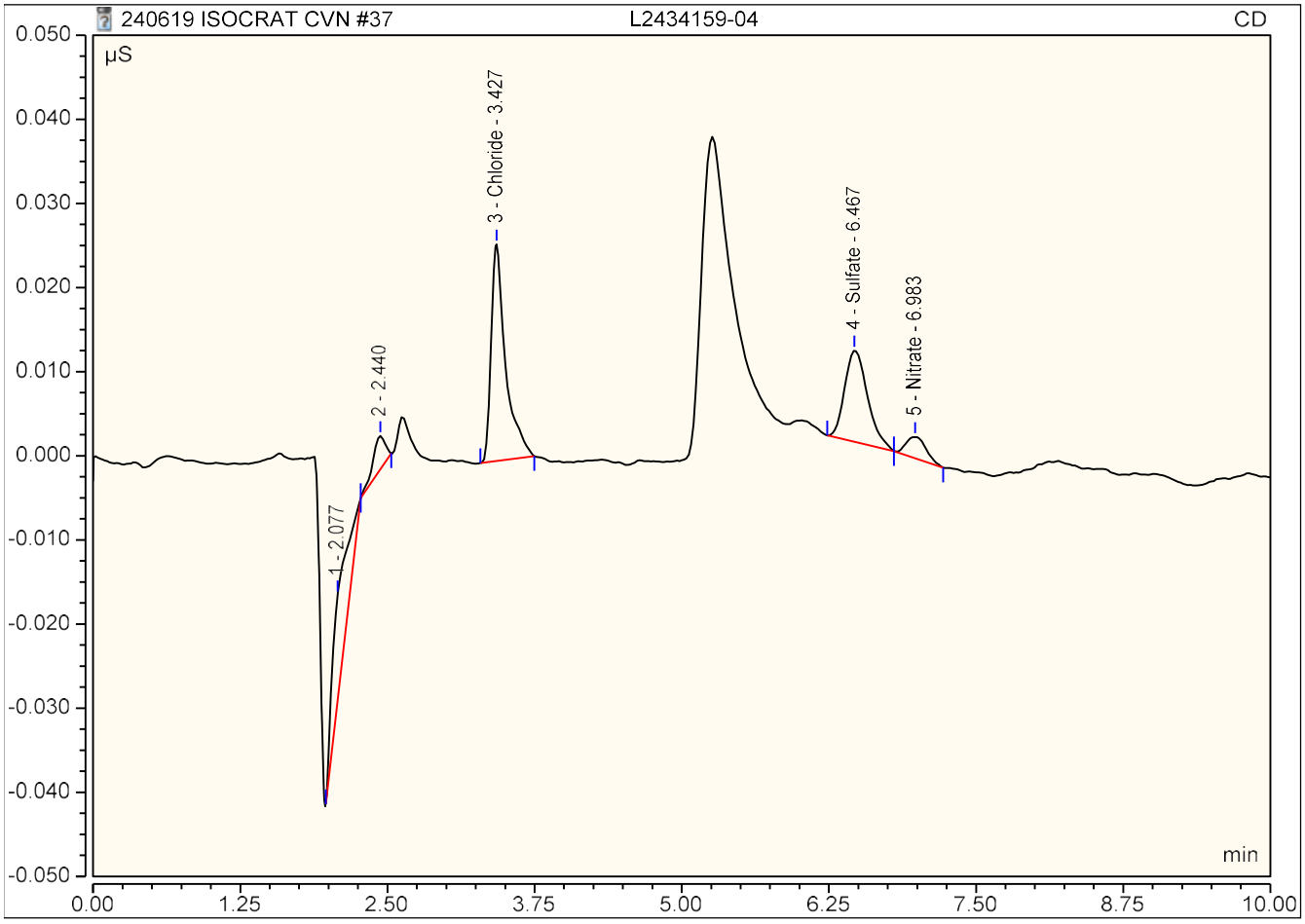
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.003	0.025	0.2414
4	6.47	**Sulfate**	BMB	0.002	0.010	0.4238
5	6.97	**Nitrate**	BMB	0.001	0.003	0.0312
TOTAL:				0.01	0.04	0.70



Peak Integration Report

Sample Name:	**L2434159-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 14:28**	*Run Time:*	**10.00**

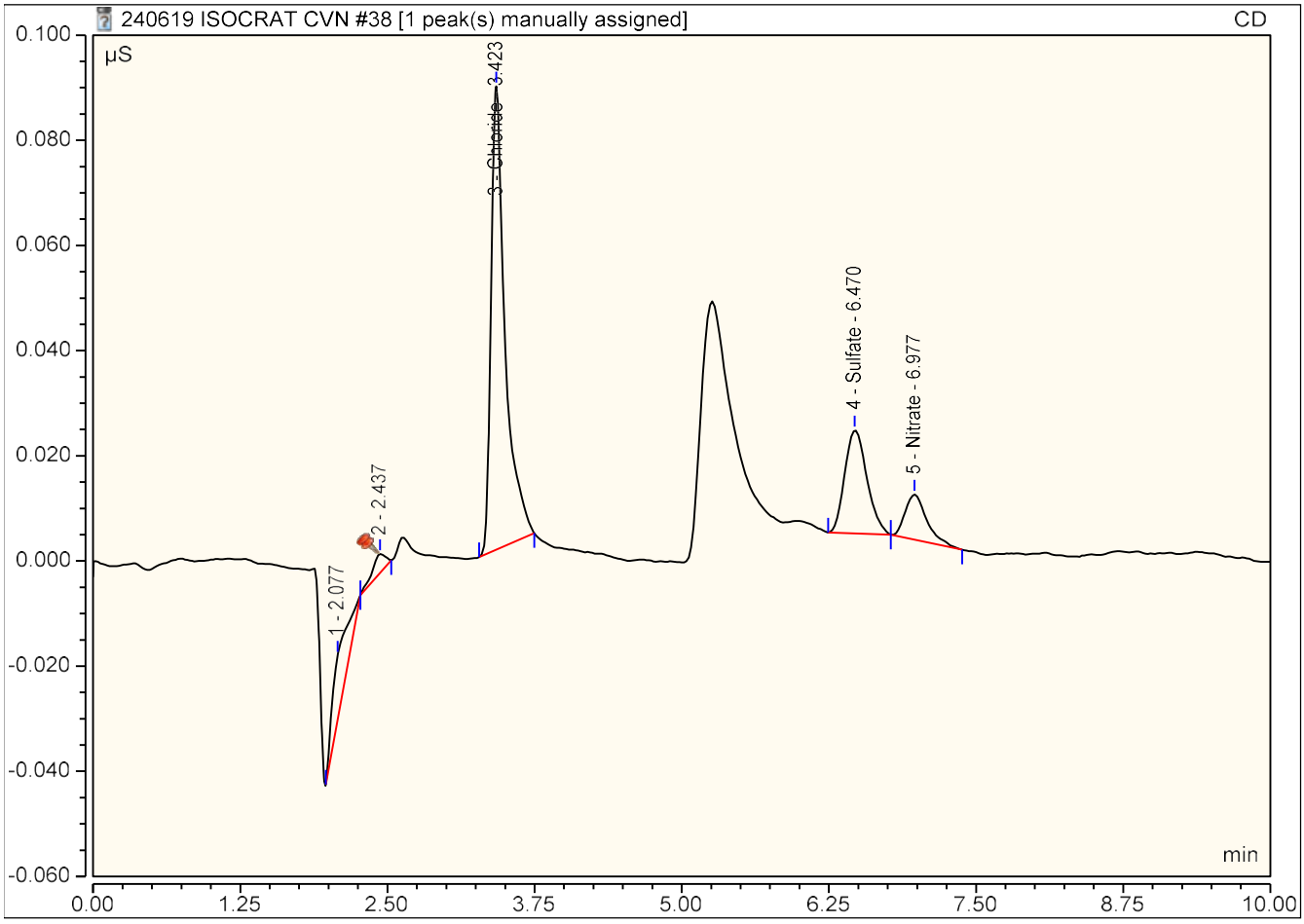
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB	0.004	0.026	0.2419
4	6.47	**Sulfate**	BMB	0.002	0.011	0.4243
5	6.98	**Nitrate**	BMB	0.001	0.003	0.0311
TOTAL:				0.01	0.04	0.70



Peak Integration Report

Sample Name:	**L2433375-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 14:41**	*Run Time:*	**10.00**

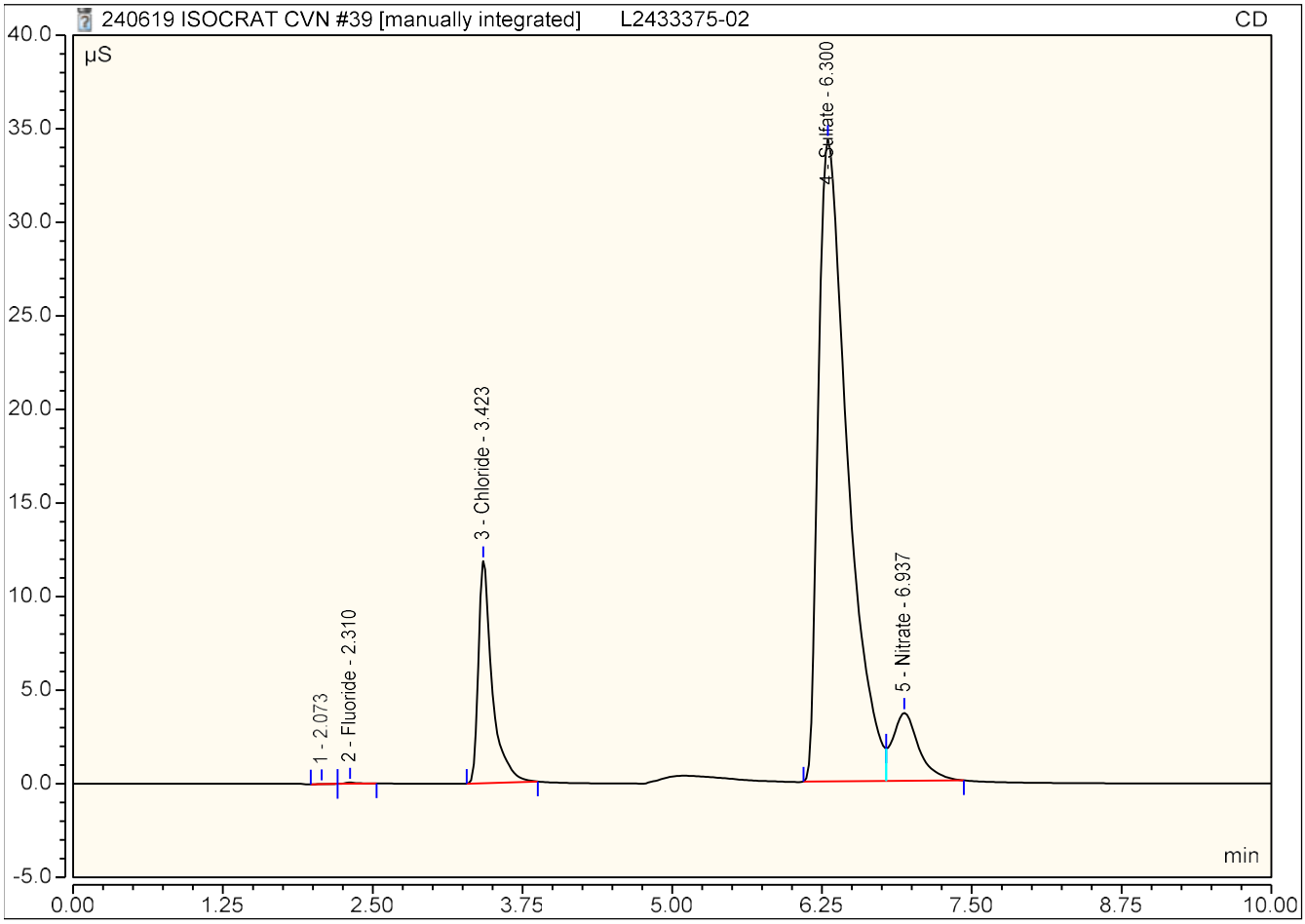
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.012	0.088	0.2618
4	6.47	**Sulfate**	BMB	0.004	0.020	0.4302
5	6.98	**Nitrate**	BMB	0.002	0.009	0.0323
TOTAL:				0.02	0.12	0.72



Peak Integration Report

Sample Name:	**L2433375-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 14:53**	*Run Time:*	**10.00**

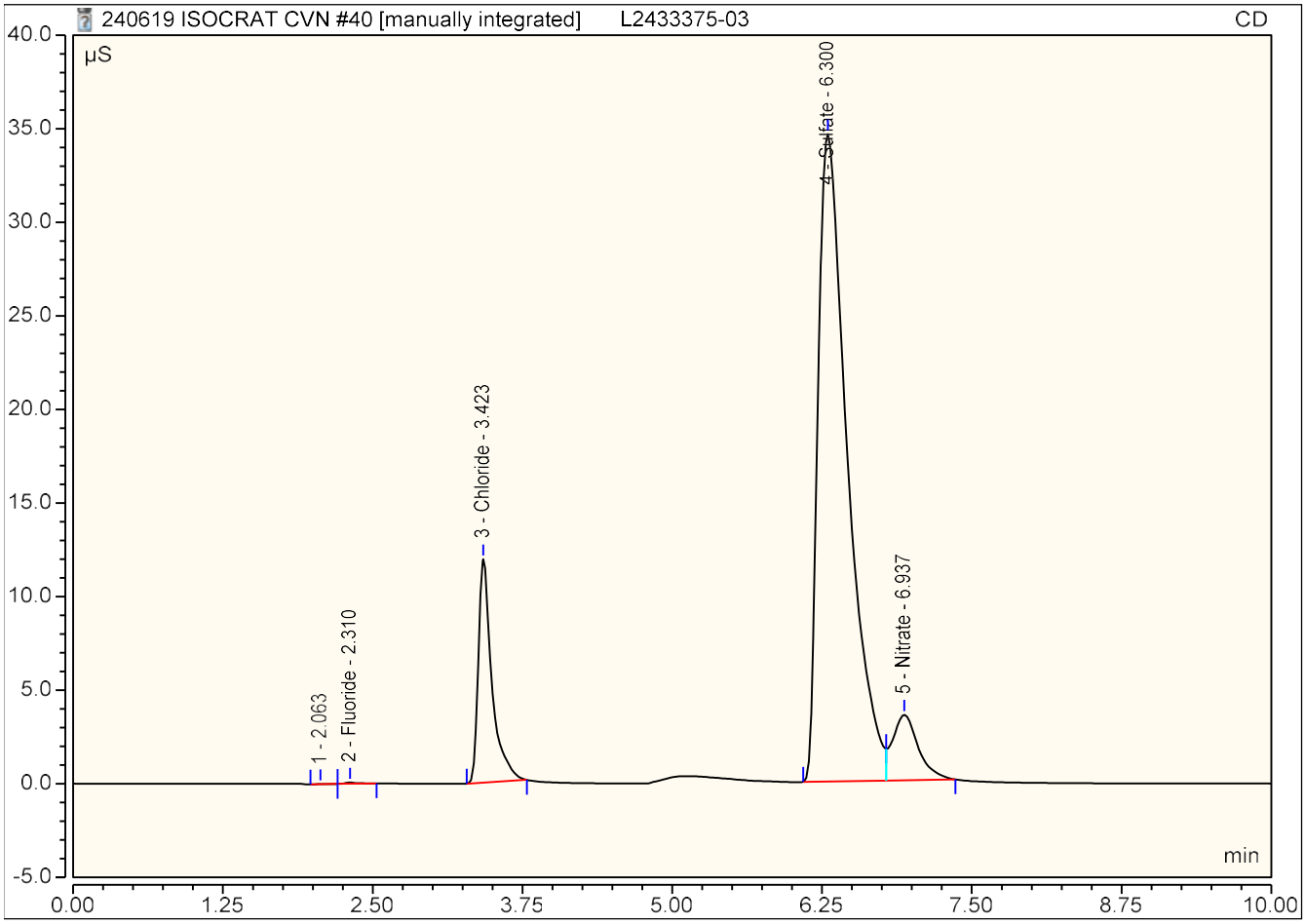
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.008	0.068	0.0647
3	3.42	**Chloride**	BMB*	1.579	11.867	3.9208
4	6.30	**Sulfate**	BM *	9.708	34.288	31.7880
5	6.94	**Nitrate**	MB*	0.923	3.636	0.8635
TOTAL:				12.22	49.86	36.64



Peak Integration Report

Sample Name:	**L2433375-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 15:05**	*Run Time:*	**10.00**

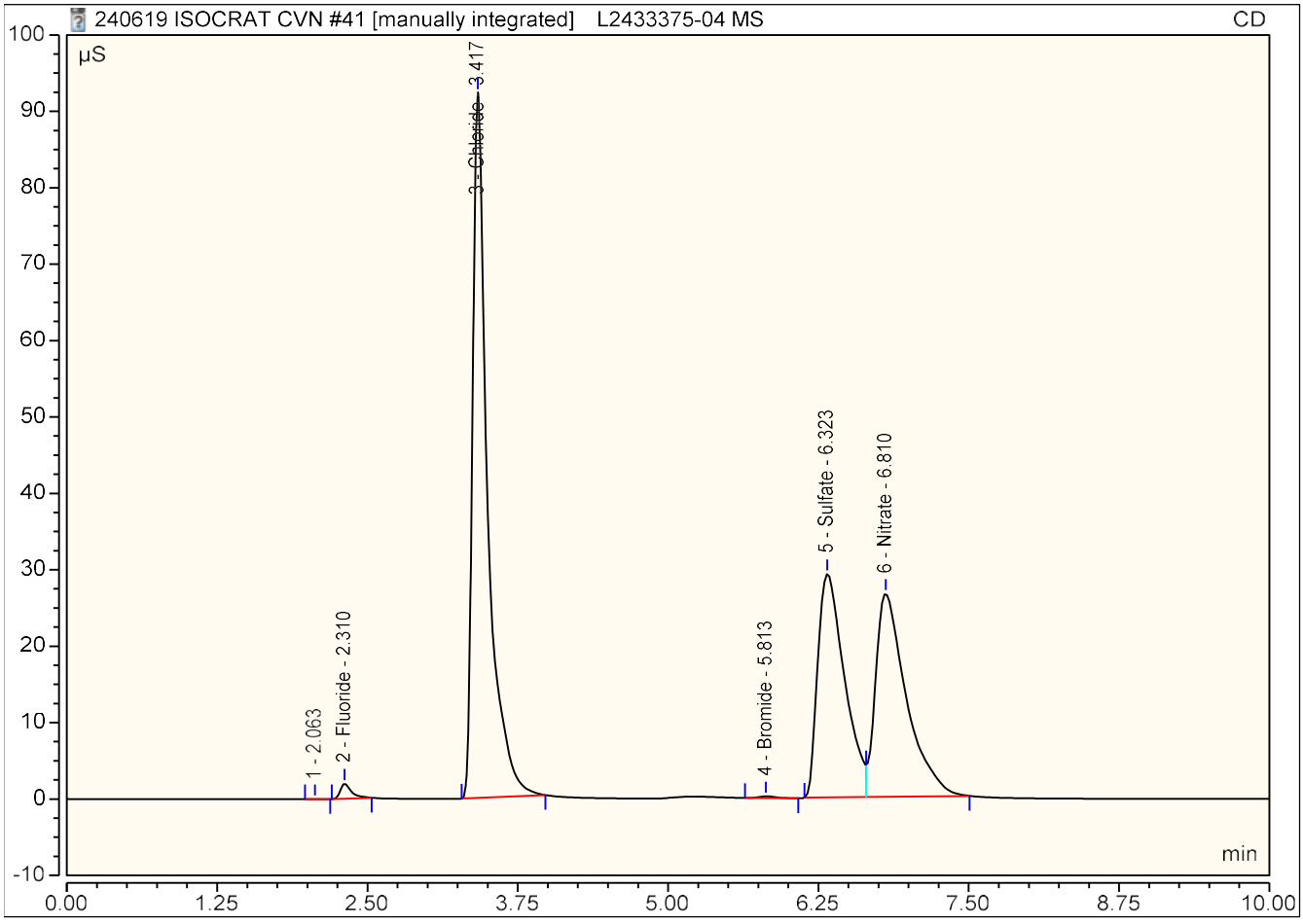
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.008	0.067	0.0650
3	3.42	**Chloride**	BMB*	1.566	11.934	3.8918
4	6.30	**Sulfate**	BM *	9.817	34.589	32.1418
5	6.94	**Nitrate**	MB*	0.873	3.504	0.8185
TOTAL:				12.26	50.09	36.92



Peak Integration Report

Sample Name:	**L2433375-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 15:17**	*Run Time:*	**10.00**

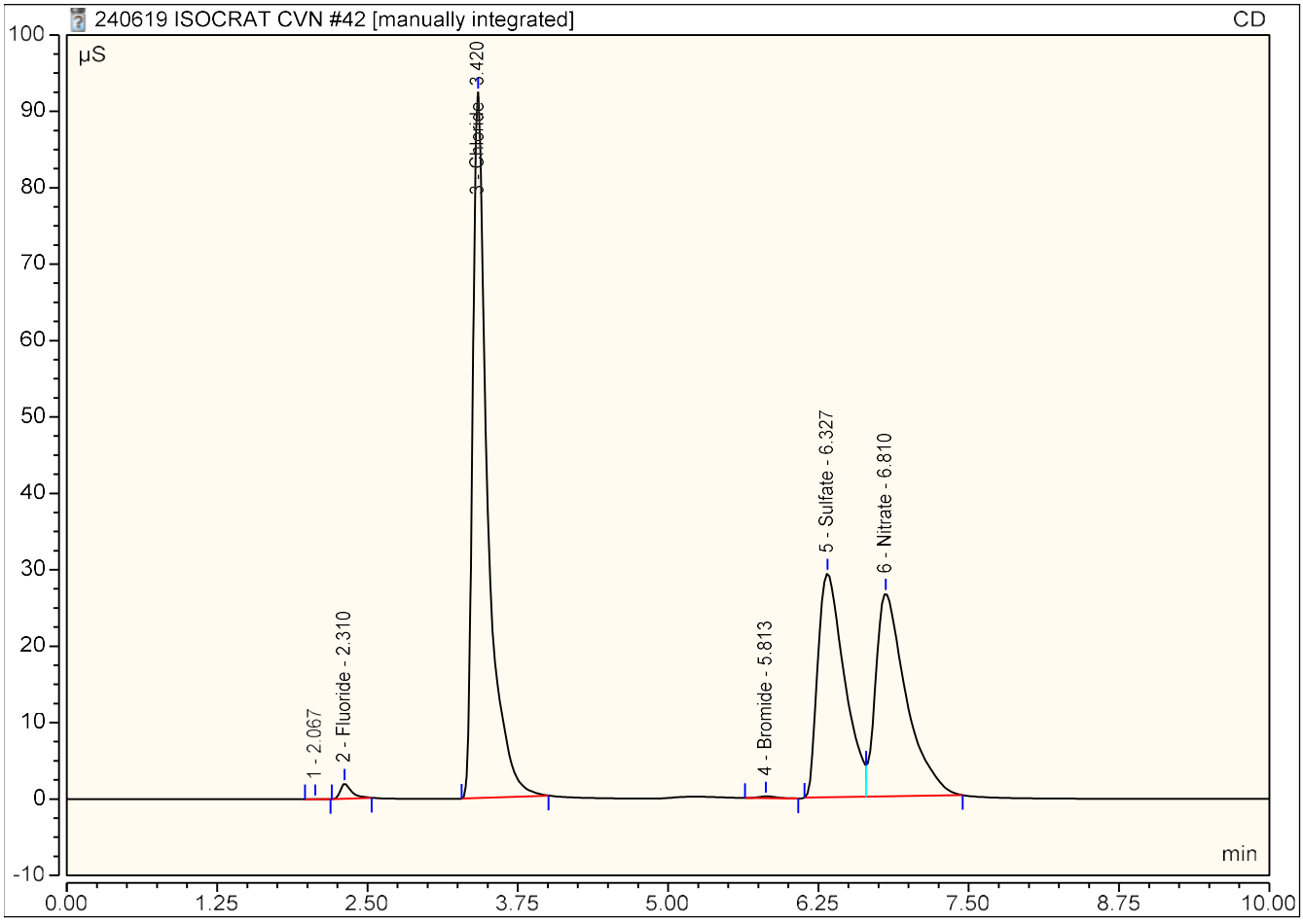
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.207	1.945	0.3979
3	3.42	**Chloride**	BMB*	13.260	92.293	31.2057
4	5.81	**Bromide**	BMB	0.040	0.235	0.3687
5	6.32	**Sulfate**	BM *	7.538	29.239	24.7750
6	6.81	**Nitrate**	MB*	7.886	26.586	7.1484
TOTAL:				28.93	150.30	63.90



Peak Integration Report

Sample Name:	**L2433375-04 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 15:29**	*Run Time:*	**10.00**

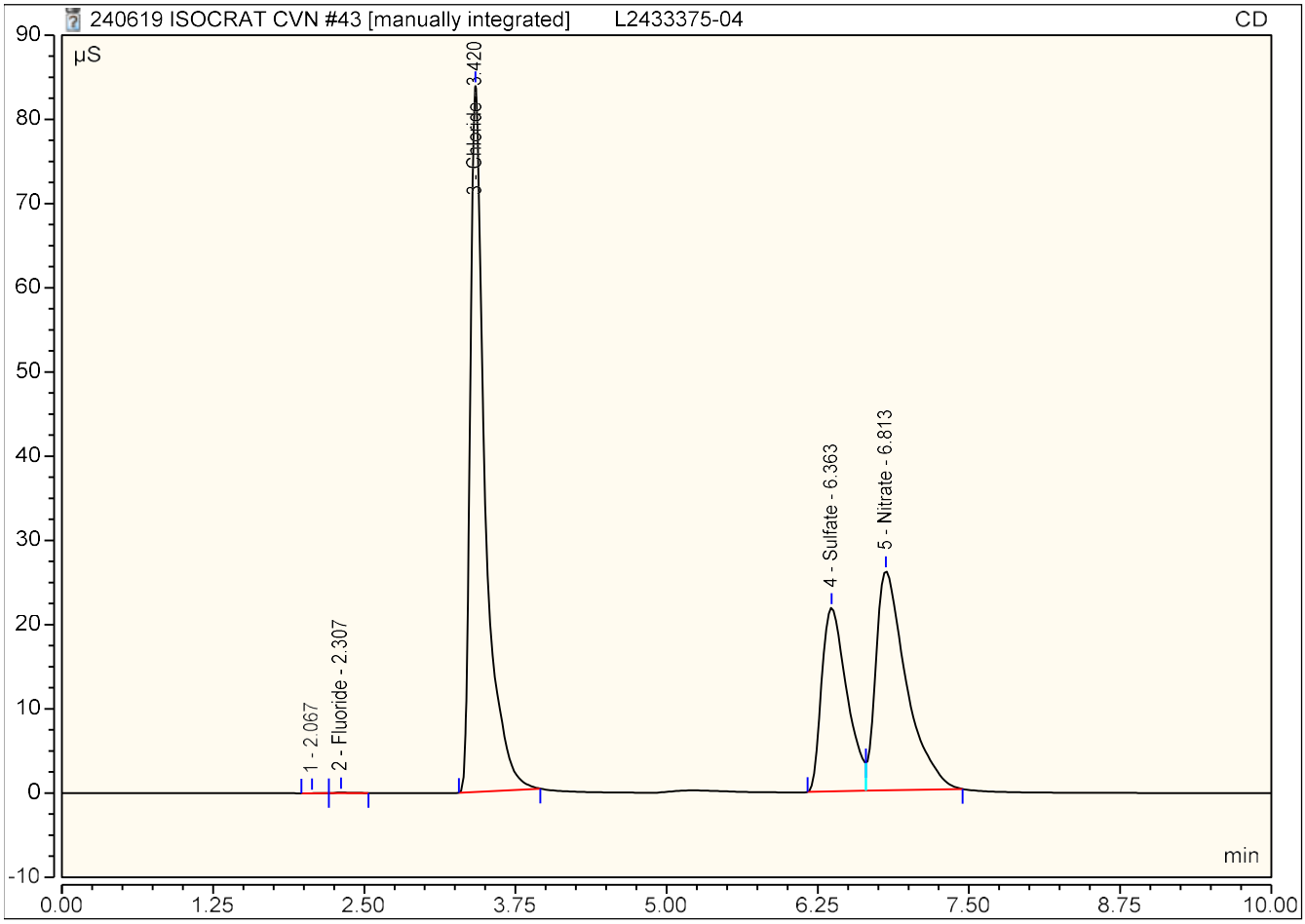
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.208	1.950	0.3990
3	3.42	**Chloride**	BMB*	13.286	92.375	31.2667
4	5.81	**Bromide**	BMB	0.039	0.234	0.3671
5	6.33	**Sulfate**	BM *	7.530	29.283	24.7502
6	6.81	**Nitrate**	MB*	7.812	26.540	7.0813
TOTAL:				28.88	150.38	63.86



Peak Integration Report

Sample Name:	**L2433375-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 15:41**	*Run Time:*	**10.00**

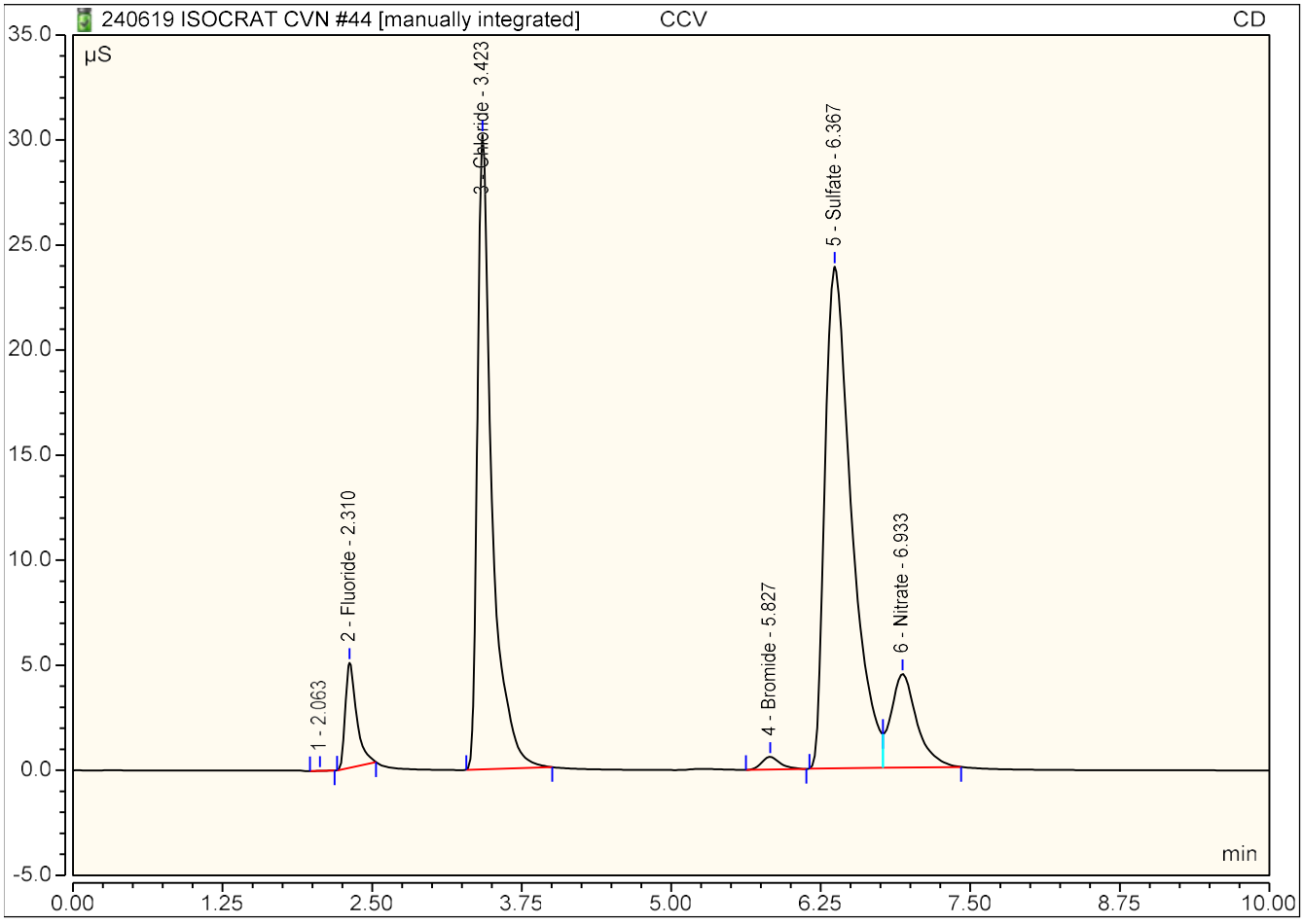
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.011	0.097	0.0701
3	3.42	**Chloride**	BMB*	11.983	83.813	28.2235
4	6.36	**Sulfate**	BM *	5.265	21.798	17.4311
5	6.81	**Nitrate**	MB*	7.592	26.046	6.8829
TOTAL:				24.85	131.75	52.61



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 15:53**	*Run Time:*	**10.00**

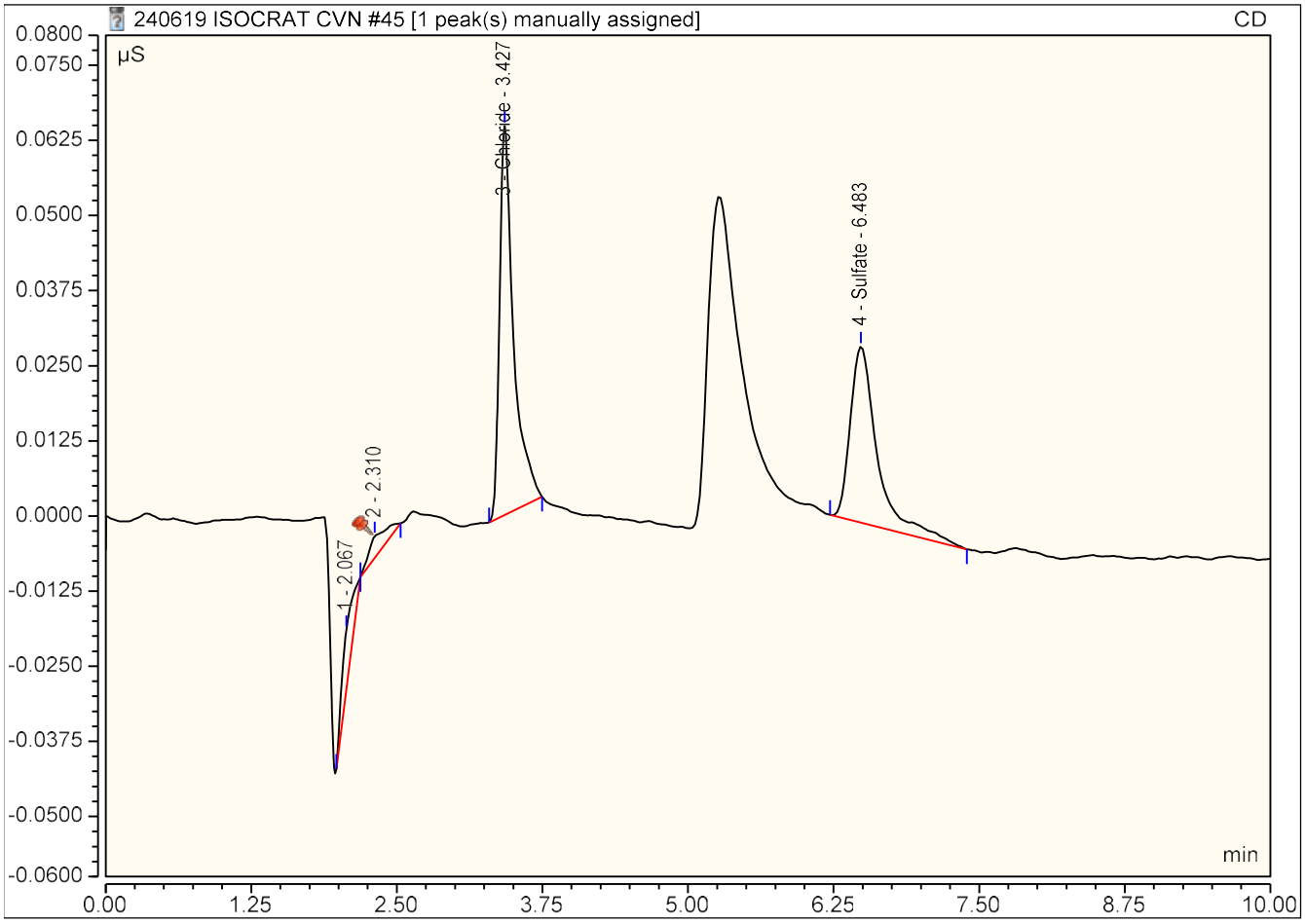
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.544	4.995	0.9610
3	3.42	**Chloride**	BMB*	4.256	30.195	10.1739
4	5.83	**Bromide**	BMB	0.109	0.609	0.9502
5	6.37	**Sulfate**	BM *	6.160	23.870	20.3229
6	6.93	**Nitrate**	MB*	1.126	4.458	1.0468
TOTAL:				12.19	64.13	33.45



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 16:05**	*Run Time:*	**10.00**

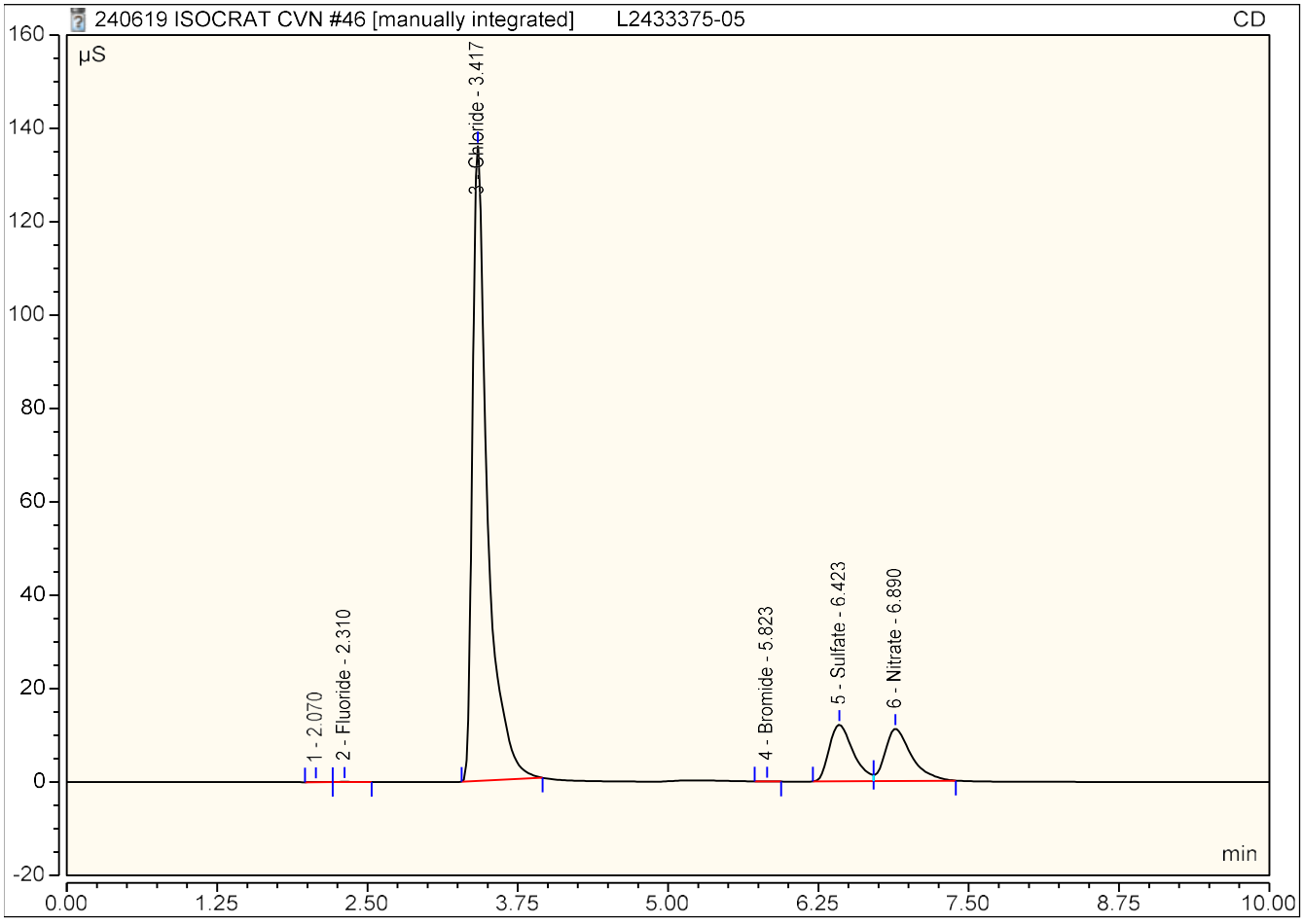
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB	0.009	0.065	0.2545
4	6.48	**Sulfate**	BMB	0.008	0.029	0.4419
TOTAL:				0.02	0.09	0.70



Peak Integration Report

Sample Name:	**L2433375-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 16:17**	*Run Time:*	**10.00**

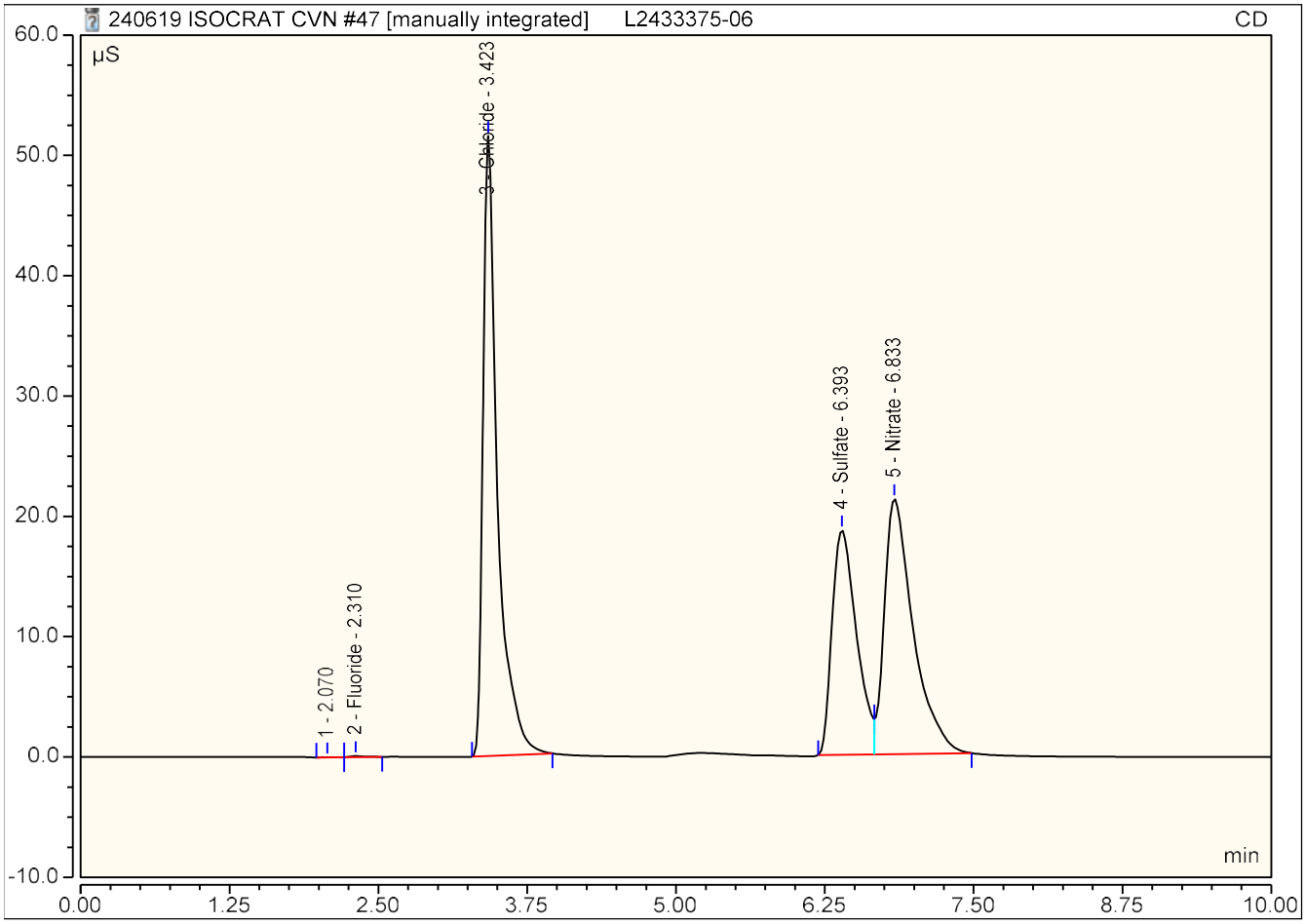
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.007	0.056	0.0628
3	3.42	**Chloride**	BMB*	19.724	135.917	46.3046
4	5.82	**Bromide**	BMB	0.001	0.005	0.0413
5	6.42	**Sulfate**	BM *	2.800	12.106	9.4657
6	6.89	**Nitrate**	MB*	2.819	11.185	2.5754
TOTAL:				25.35	159.27	58.45



Peak Integration Report

Sample Name:	**L2433375-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 16:29**	*Run Time:*	**10.00**

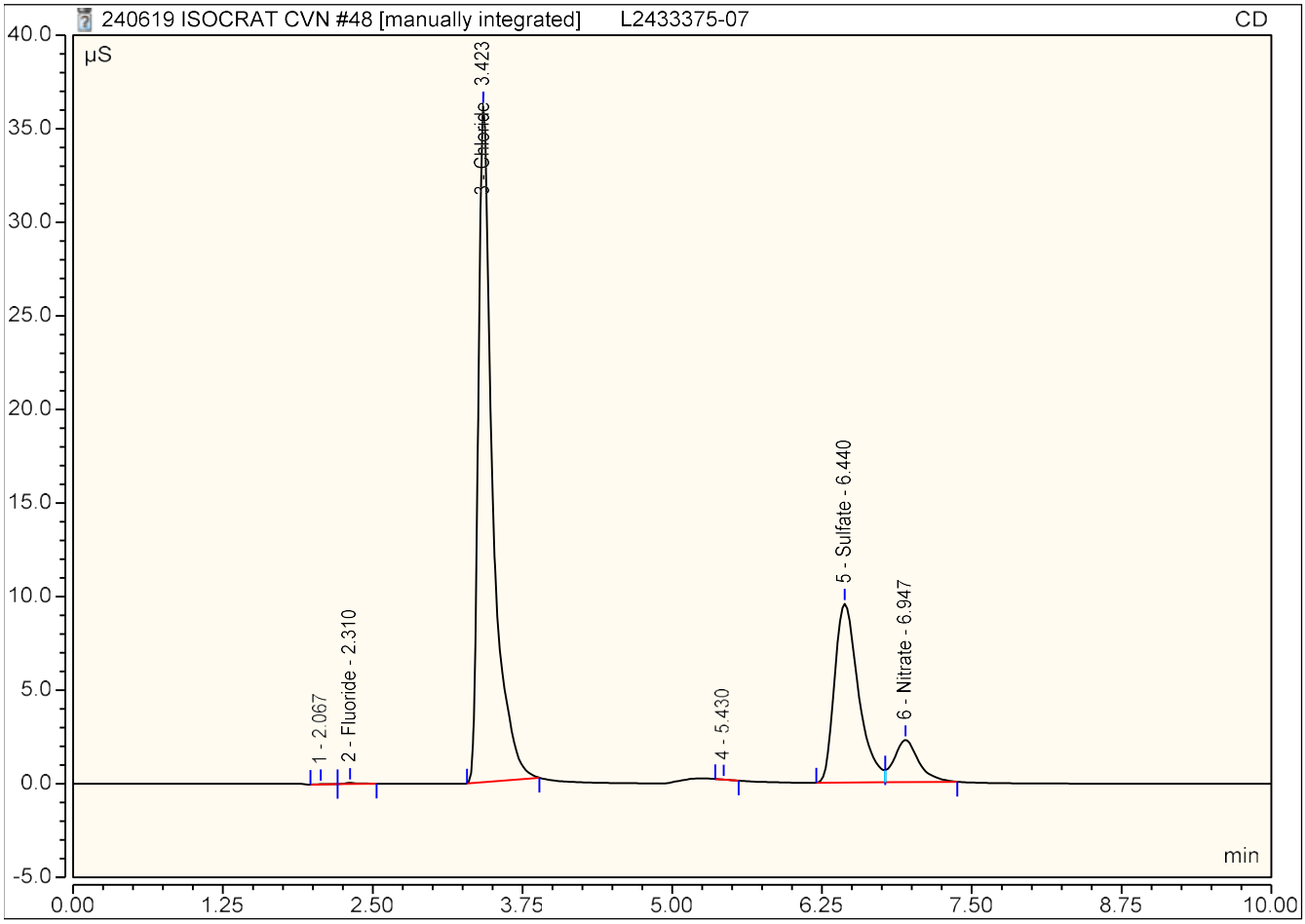
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.011	0.092	0.0700
3	3.42	**Chloride**	BMB*	7.268	51.525	17.2105
4	6.39	**Sulfate**	BM *	4.435	18.669	14.7474
5	6.83	**Nitrate**	MB*	5.944	21.208	5.3953
TOTAL:				17.66	91.49	37.42



Peak Integration Report

Sample Name:	**L2433375-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 16:41**	*Run Time:*	**10.00**

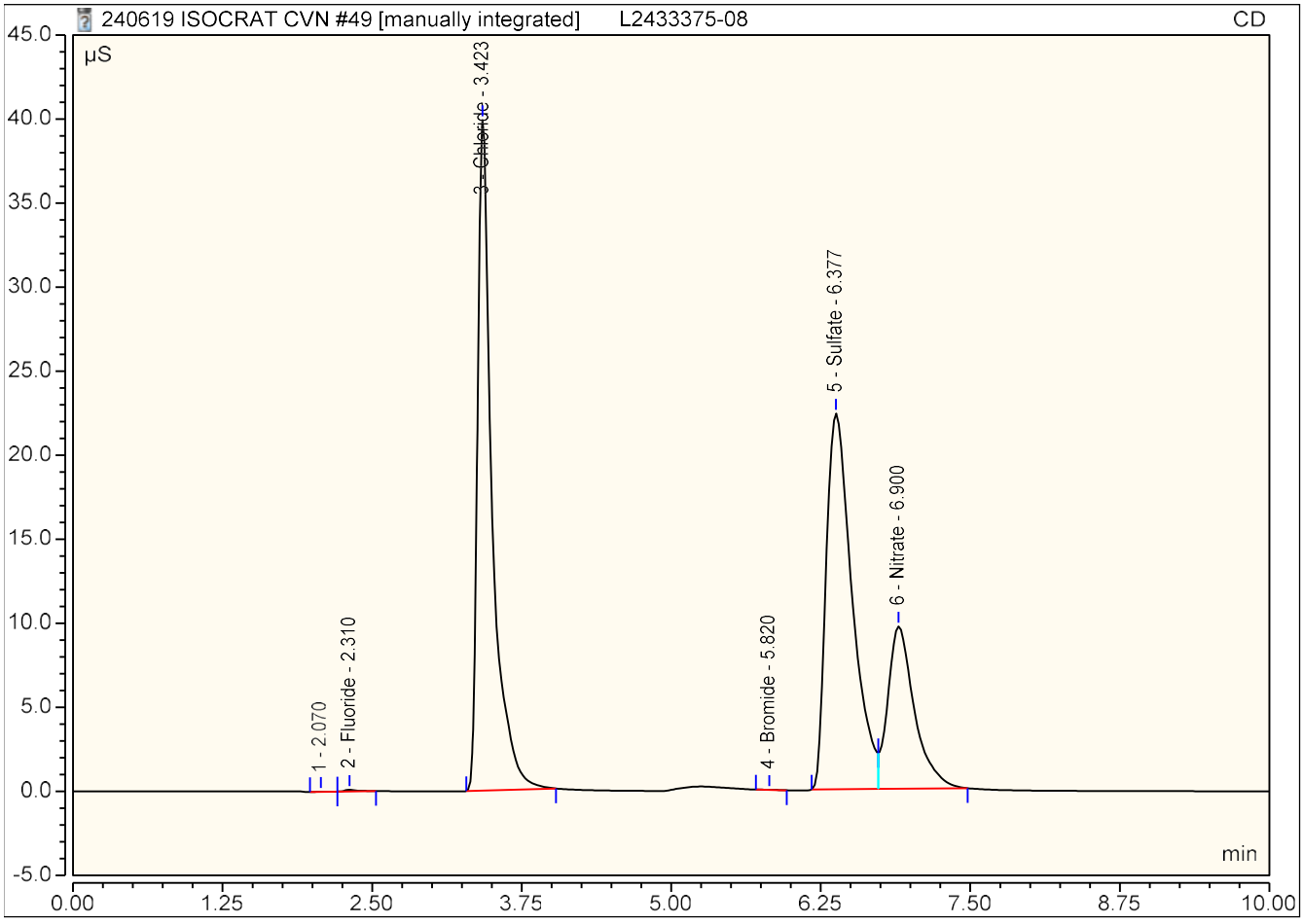
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.006	0.051	0.0616
3	3.42	**Chloride**	BMB*	5.036	36.104	11.9961
5	6.44	**Sulfate**	BM *	2.222	9.556	7.5953
6	6.95	**Nitrate**	MB*	0.536	2.250	0.5144
TOTAL:				7.80	47.96	20.17



Peak Integration Report

Sample Name:	**L2433375-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 16:54**	*Run Time:*	**10.00**

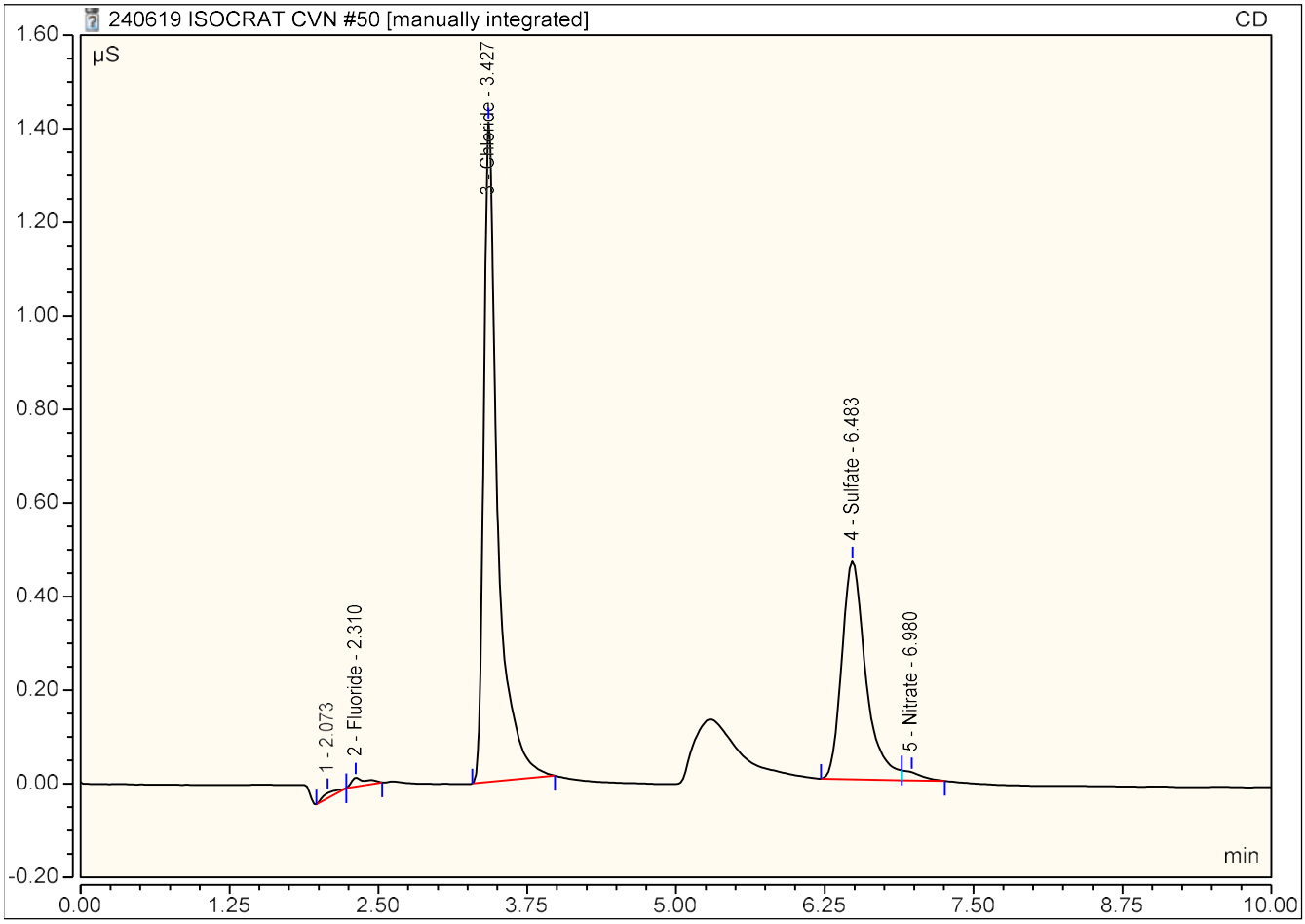
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.103	0.0714
3	3.42	**Chloride**	BMB*	5.623	39.900	13.3683
4	5.82	**Bromide**	BMB	0.001	0.009	0.0458
5	6.38	**Sulfate**	BM *	5.628	22.366	18.6019
6	6.90	**Nitrate**	MB*	2.492	9.667	2.2799
TOTAL:				13.76	72.05	34.37



Peak Integration Report

Sample Name:	**L2433492-01 CL; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 17:06**	*Run Time:*	**10.00**

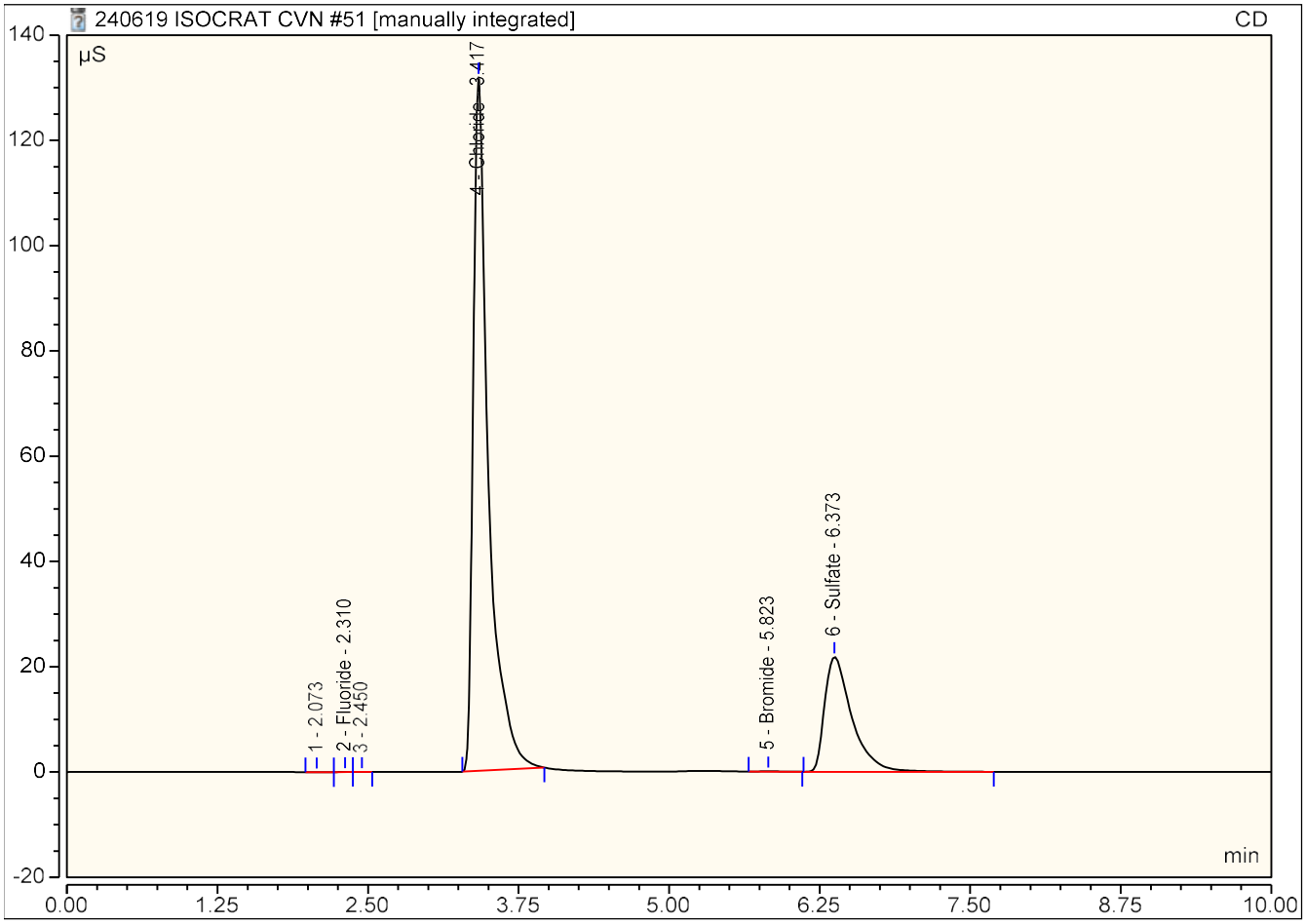
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.003	0.019	1.3885
3	3.43	**Chloride**	BMB*	0.193	1.410	17.0868
4	6.48	**Sulfate**	BM *	0.109	0.466	19.2307
5	6.98	**Nitrate**	MB*	0.003	0.017	0.8425
TOTAL:				0.31	1.91	38.55



Peak Integration Report

Sample Name:	**L2434420-01; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 17:18**	*Run Time:*	**10.00**

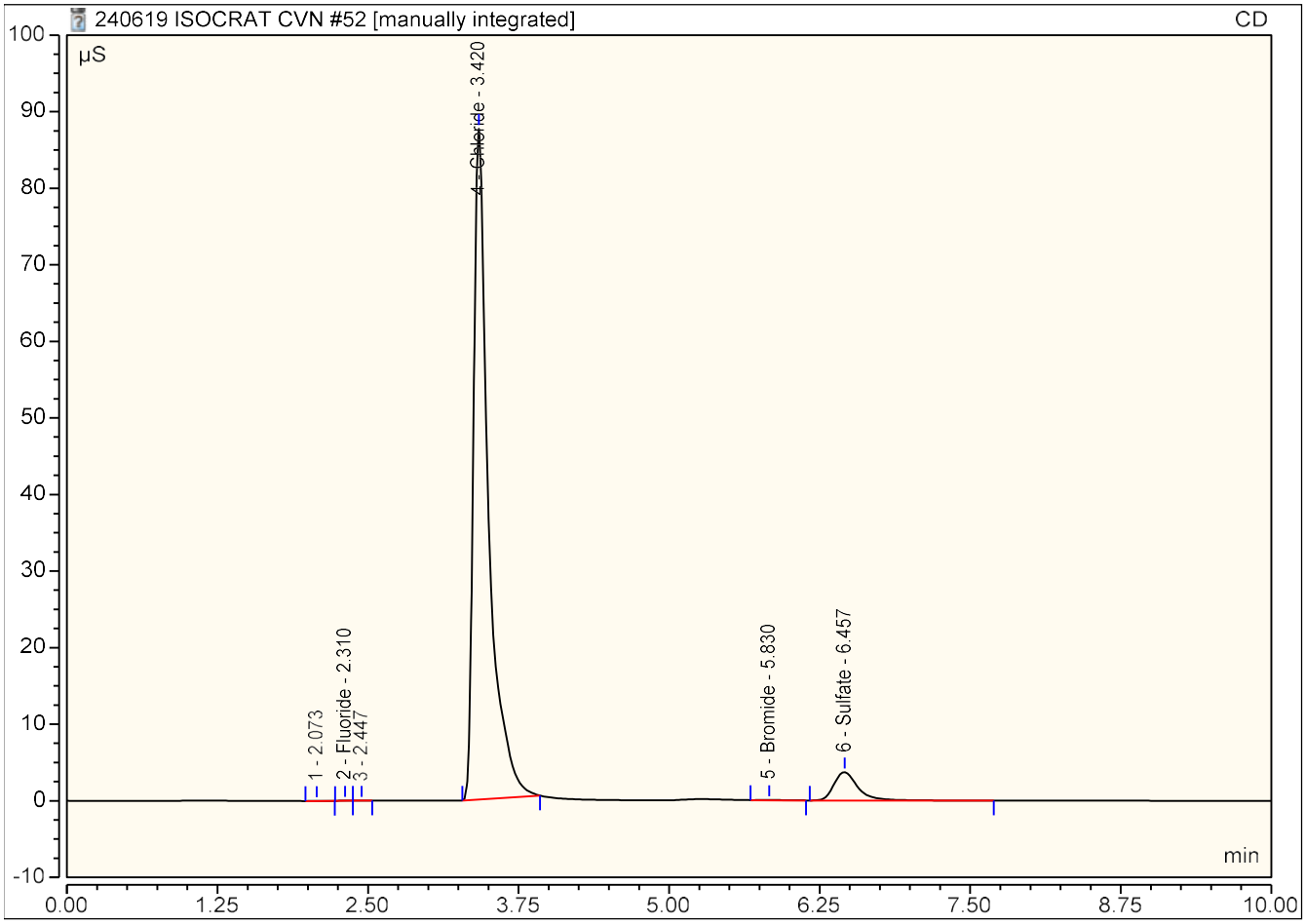
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.001	0.014	1.3165
4	3.42	**Chloride**	BMB*	19.244	131.746	1129.5720
5	5.82	**Bromide**	BMB	0.013	0.074	3.5635
6	6.37	**Sulfate**	BMB	5.709	21.811	471.6362
TOTAL:				24.97	153.64	1606.09



Peak Integration Report

Sample Name:	**L2434420-02; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 17:30**	*Run Time:*	**10.00**

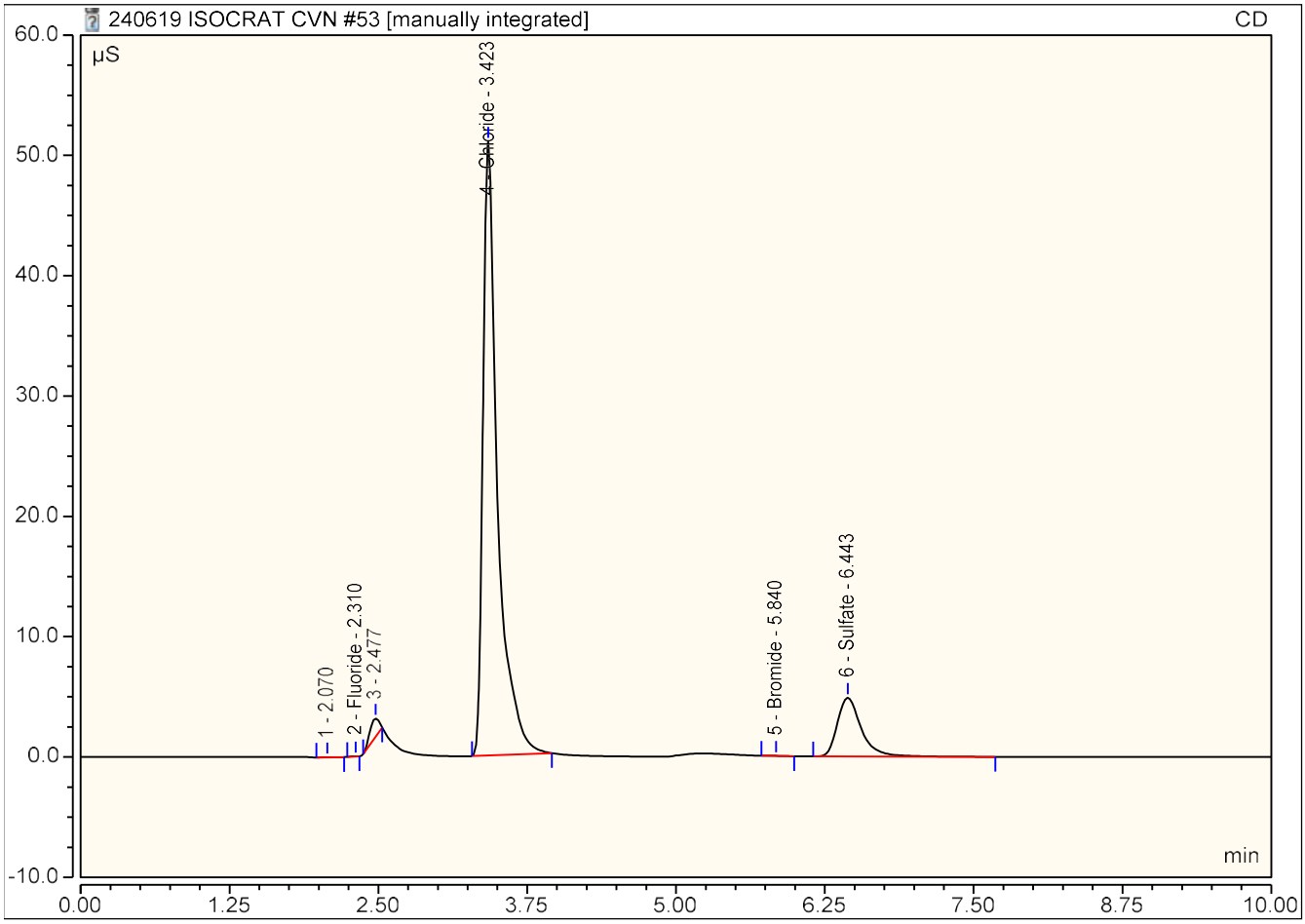
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.001	0.019	1.3337
4	3.42	**Chloride**	BMB*	12.631	87.608	743.4197
5	5.83	**Bromide**	BMB	0.008	0.045	2.5020
6	6.46	**Sulfate**	BMB	0.861	3.692	79.9384
TOTAL:				13.50	91.36	827.19



Peak Integration Report

Sample Name:	**L2434420-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 17:42**	*Run Time:*	**10.00**

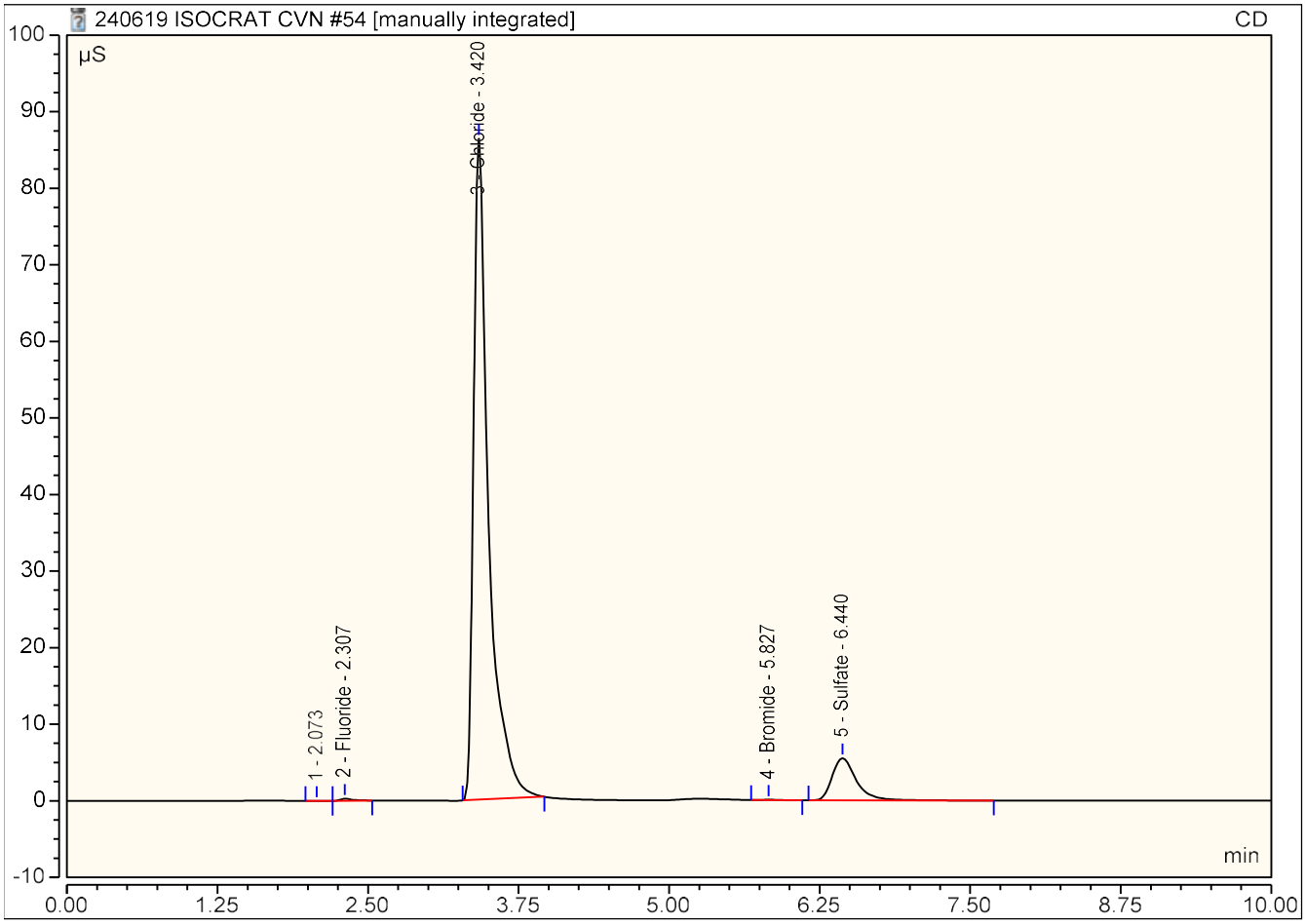
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.001	0.024	0.5344
4	3.42	**Chloride**	BMB*	7.234	51.027	171.3039
5	5.84	**Bromide**	BMB	0.001	0.010	0.4763
6	6.44	**Sulfate**	BMB	1.141	4.880	41.0251
TOTAL:				8.38	55.94	213.34



Peak Integration Report

Sample Name:	**L2434420-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 17:54**	*Run Time:*	**10.00**

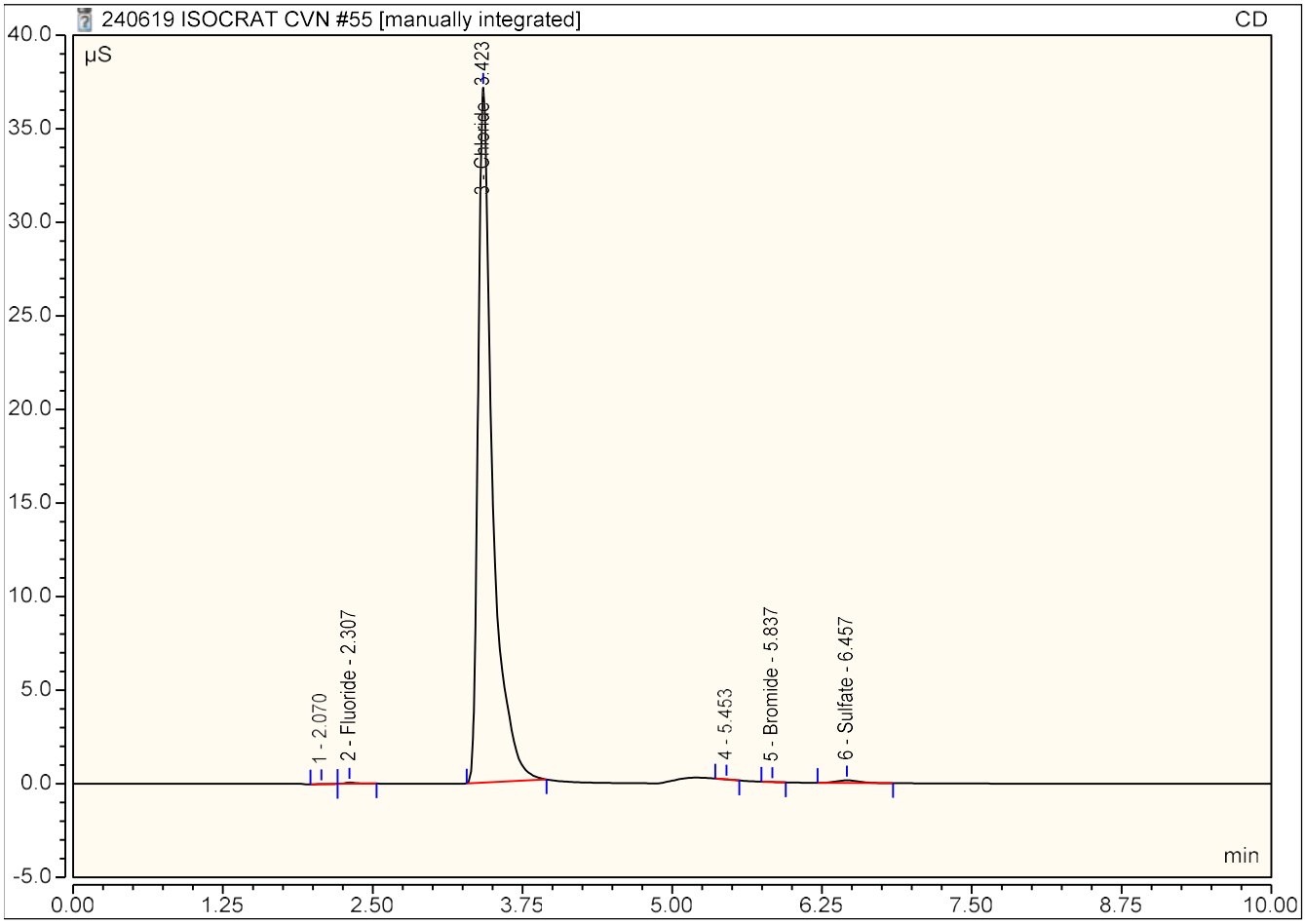
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.030	0.270	1.0116
3	3.42	**Chloride**	BMB*	12.429	86.312	292.6467
4	5.83	**Bromide**	BMB	0.007	0.044	0.9737
5	6.44	**Sulfate**	BMB	1.293	5.509	45.9621
TOTAL:				13.76	92.13	340.59



Peak Integration Report

Sample Name:	**L2434420-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 18:06**	*Run Time:*	**10.00**

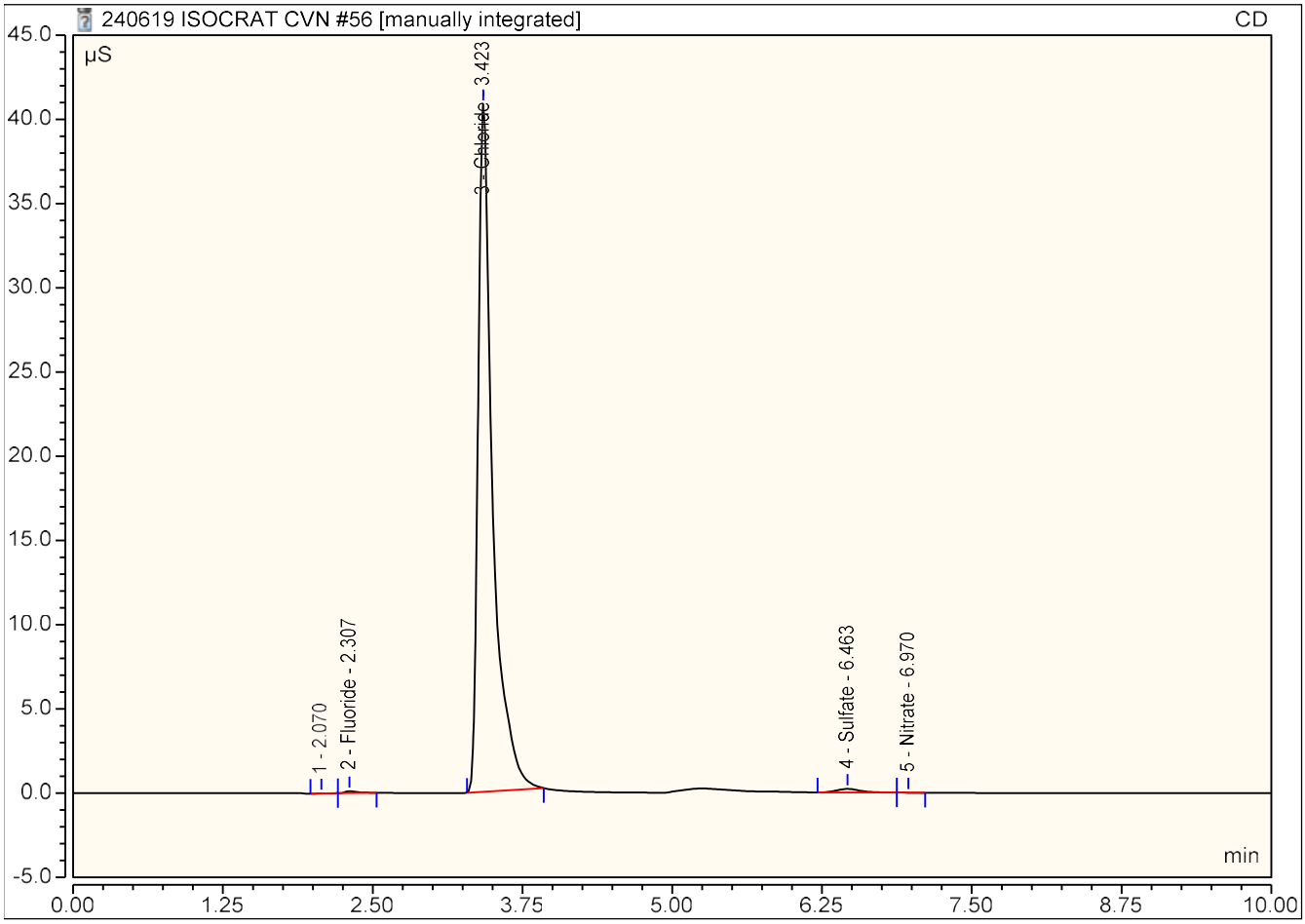
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.074	0.6559
3	3.42	**Chloride**	BMB*	5.213	37.139	124.1003
5	5.84	**Bromide**	BMB	0.000	0.002	0.3867
6	6.46	**Sulfate**	BMB	0.033	0.147	5.2250
TOTAL:				5.25	37.36	130.37



Peak Integration Report

Sample Name:	**L2434420-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 18:18**	*Run Time:*	**10.00**

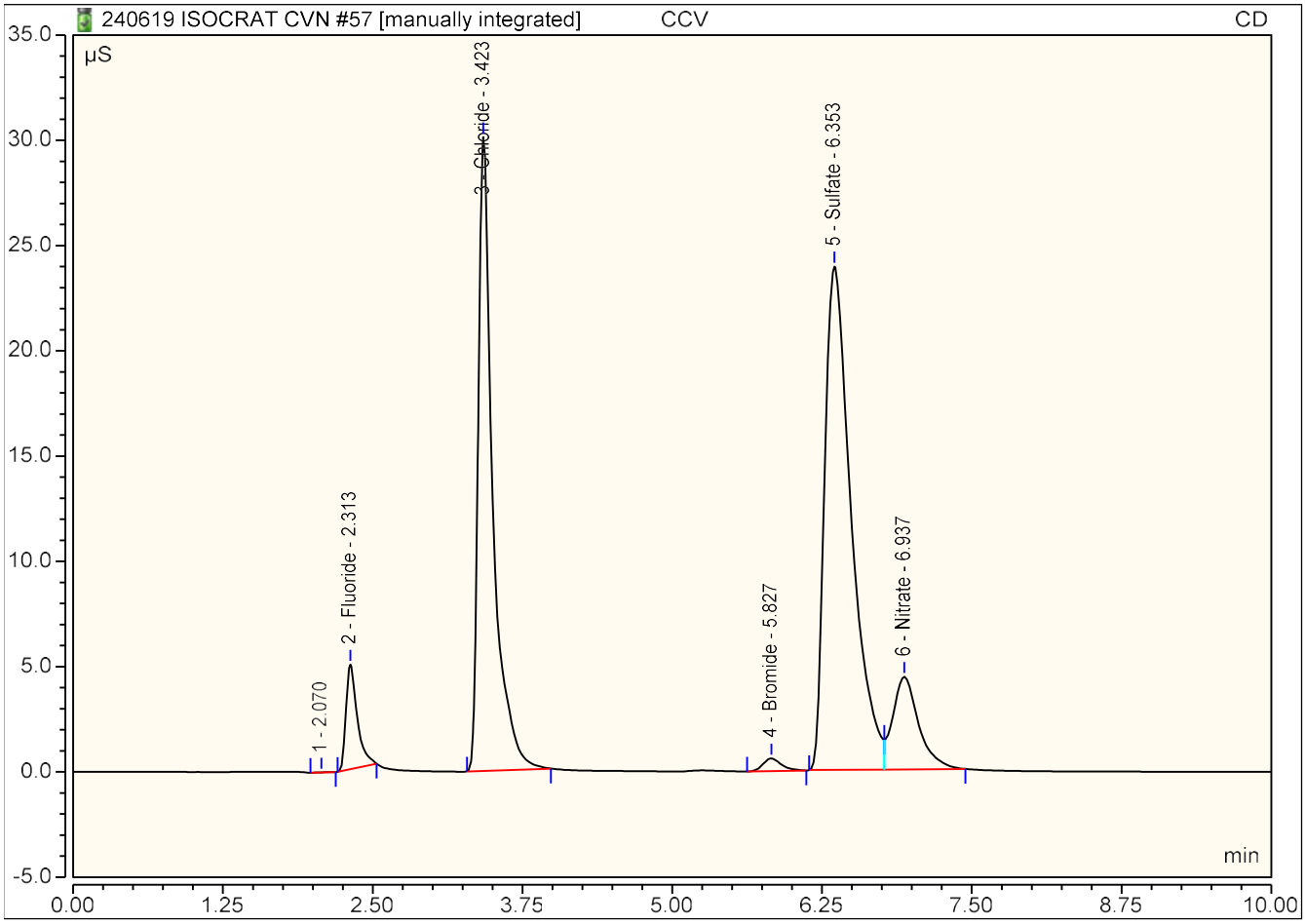
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.014	0.116	0.7425
3	3.42	**Chloride**	BMB*	5.745	40.823	136.5195
4	6.46	**Sulfate**	BMB	0.048	0.217	5.7302
5	6.97	**Nitrate**	BMB	0.000	0.002	0.3085
TOTAL:				5.81	41.16	143.30



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 18:30**	*Run Time:*	**10.00**

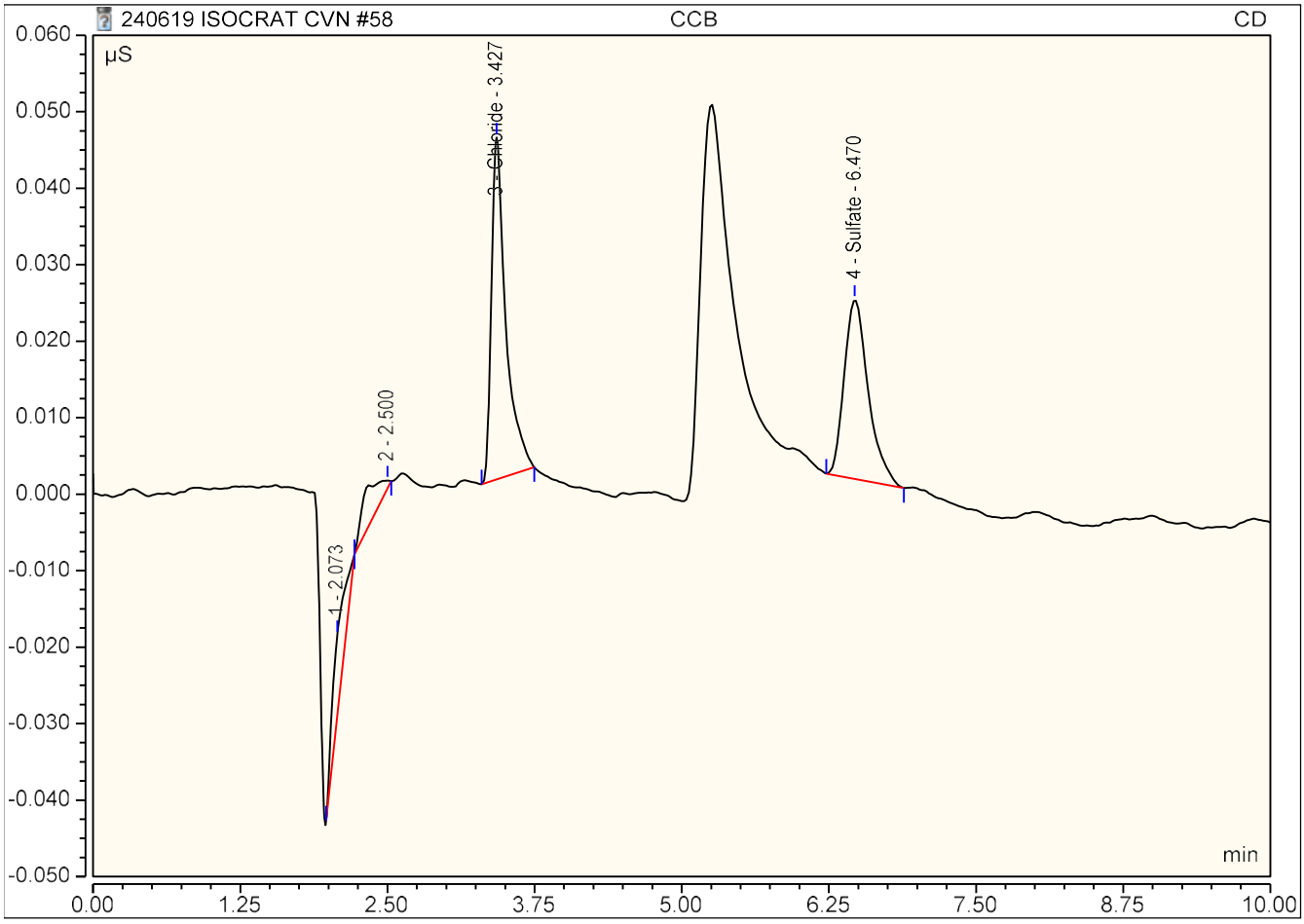
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.541	4.977	0.9560
3	3.42	**Chloride**	BMB*	4.229	30.103	10.1122
4	5.83	**Bromide**	BMB	0.106	0.600	0.9289
5	6.35	**Sulfate**	BM *	6.158	23.910	20.3151
6	6.94	**Nitrate**	MB*	1.107	4.404	1.0302
TOTAL:				12.14	63.99	33.34



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 18:42**	*Run Time:*	**10.00**

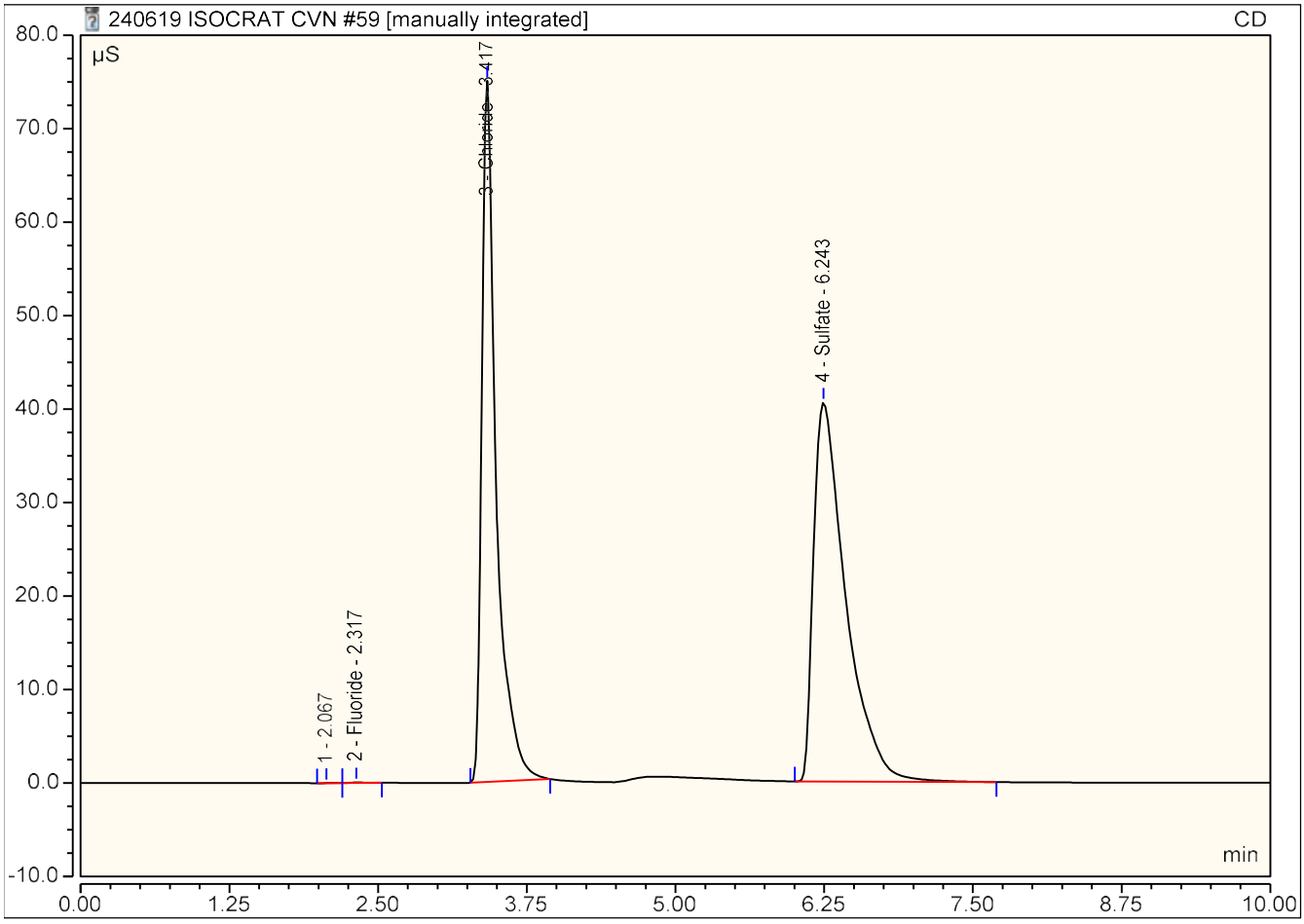
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.43	**Chloride**	BMB	0.006	0.045	0.2481
4	6.47	**Sulfate**	BMB	0.006	0.023	0.4343
TOTAL:				0.01	0.07	0.68



Peak Integration Report

Sample Name:	**L2434486-01 NO3 SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 18:54**	*Run Time:*	**10.00**

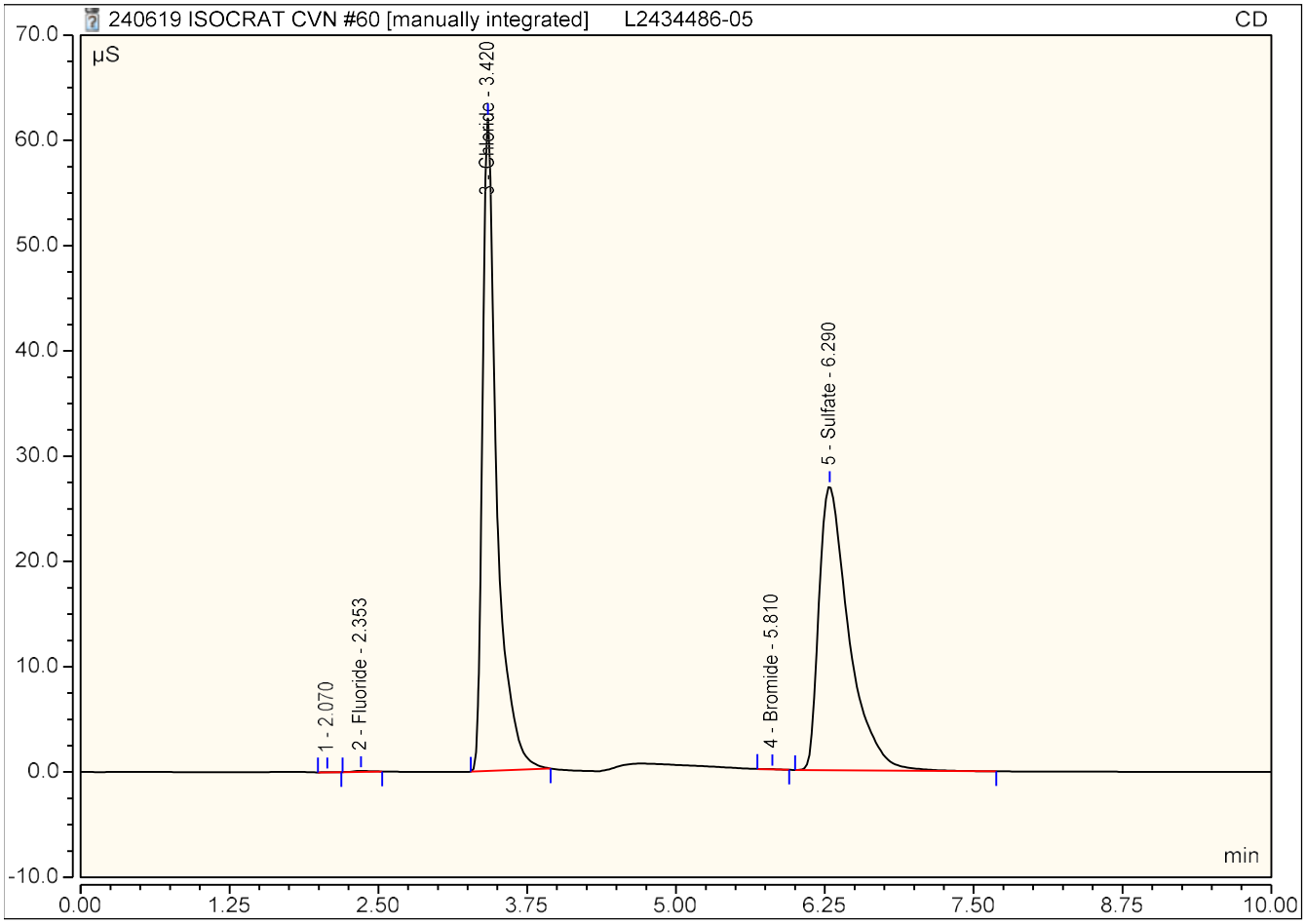
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.009	0.060	0.0654
3	3.42	**Chloride**	BMB*	10.545	74.994	24.8642
4	6.24	**Sulfate**	BMB	12.709	40.534	41.4867
TOTAL:				23.26	115.59	66.42



Peak Integration Report

Sample Name:	**L2434486-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 19:07**	*Run Time:*	**10.00**

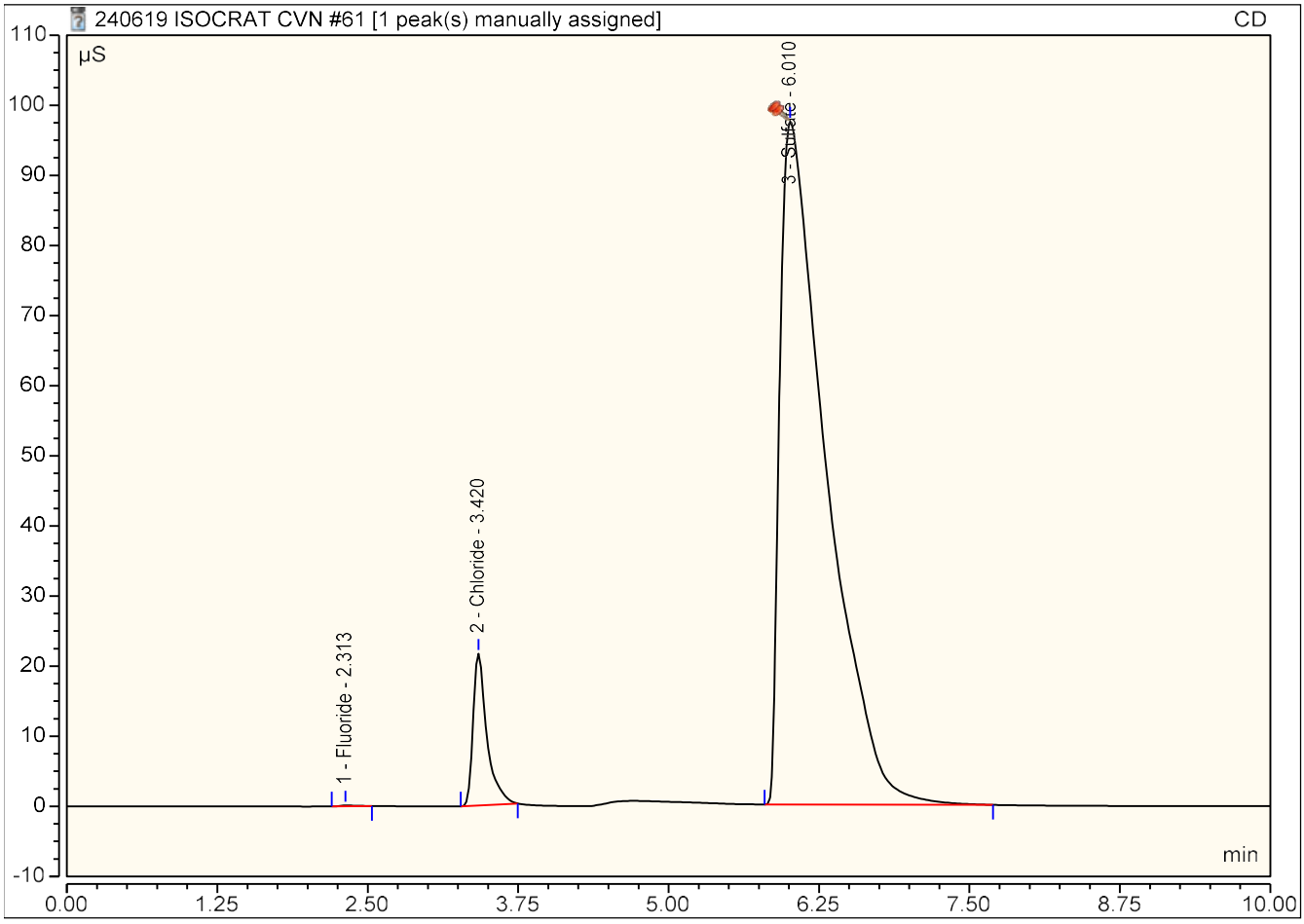
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.35	**Fluoride**	BMB	0.013	0.077	0.0721
3	3.42	**Chloride**	BMB*	8.695	61.997	20.5427
4	5.81	**Bromide**	BMB	0.002	0.013	0.0516
5	6.29	**Sulfate**	BMB	7.878	26.995	25.8738
TOTAL:				16.59	89.08	46.54



Peak Integration Report

Sample Name:	**L2434486-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 19:19**	*Run Time:*	**10.00**

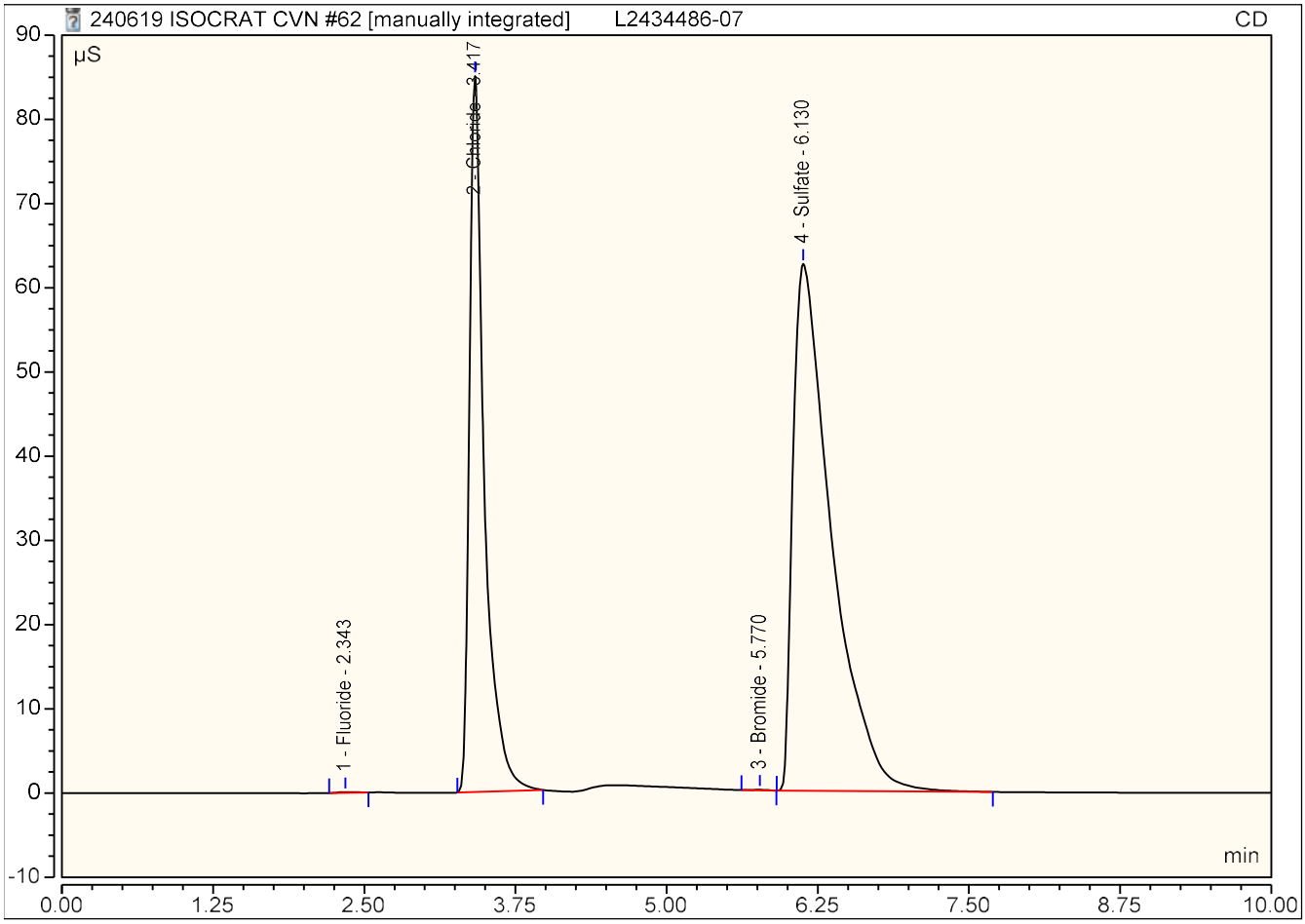
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.020	0.136	0.0839
2	3.42	**Chloride**	BMB	2.862	21.638	6.9175
3	6.01	**Sulfate**	BMB^	43.138	97.428	139.8180
TOTAL:				46.02	119.20	146.82



Peak Integration Report

Sample Name:	**L2434486-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 19:31**	*Run Time:*	**10.00**

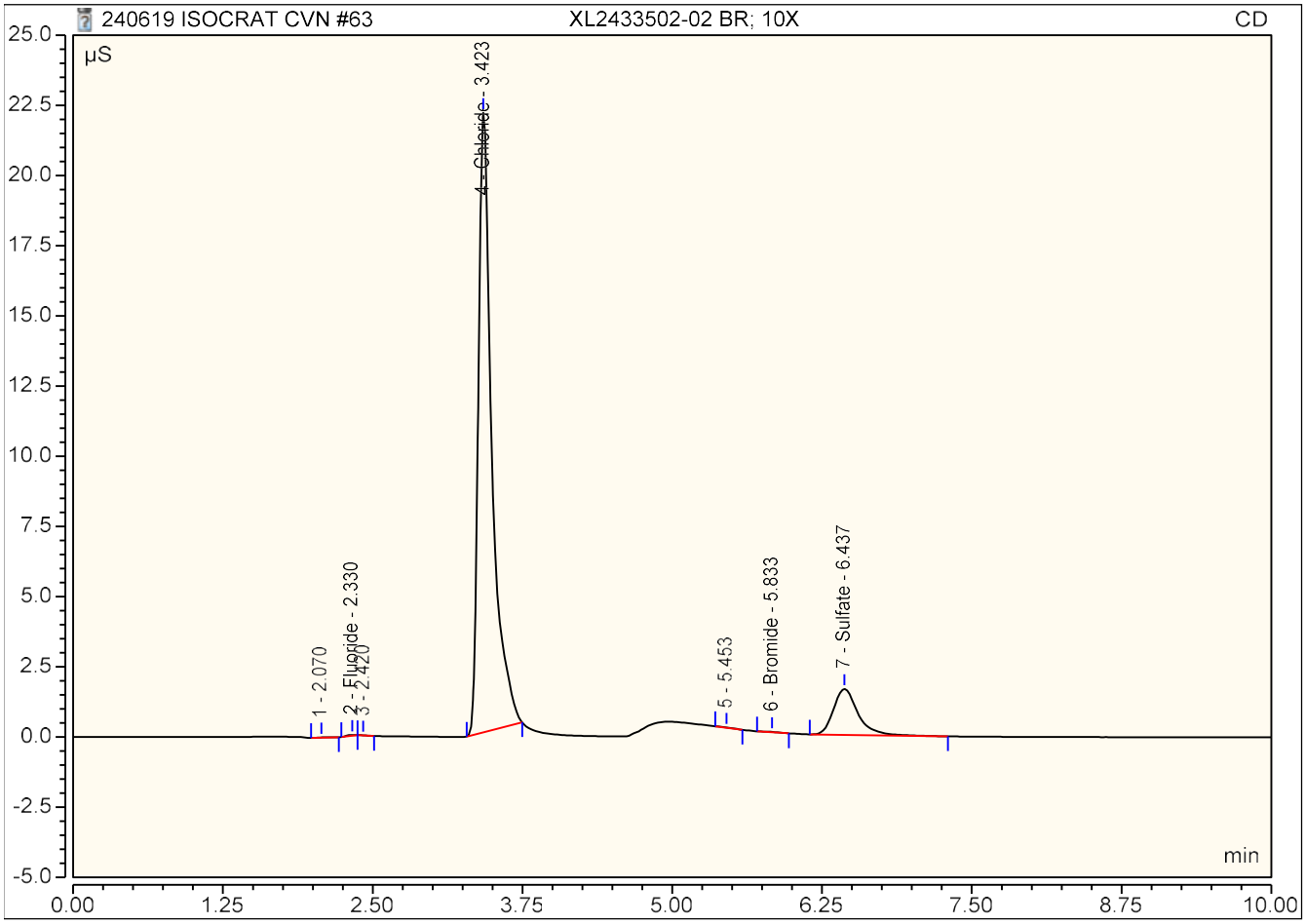
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.34	**Fluoride**	BMB	0.013	0.077	0.0731
2	3.42	**Chloride**	BMB*	12.182	85.006	28.6873
3	5.77	**Bromide**	BMB	0.010	0.074	0.1237
4	6.13	**Sulfate**	BMB	23.054	62.554	74.9173
TOTAL:				35.26	147.71	103.80



Peak Integration Report

Sample Name:	**XL2433502-02 BR; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 19:43**	*Run Time:*	**10.00**

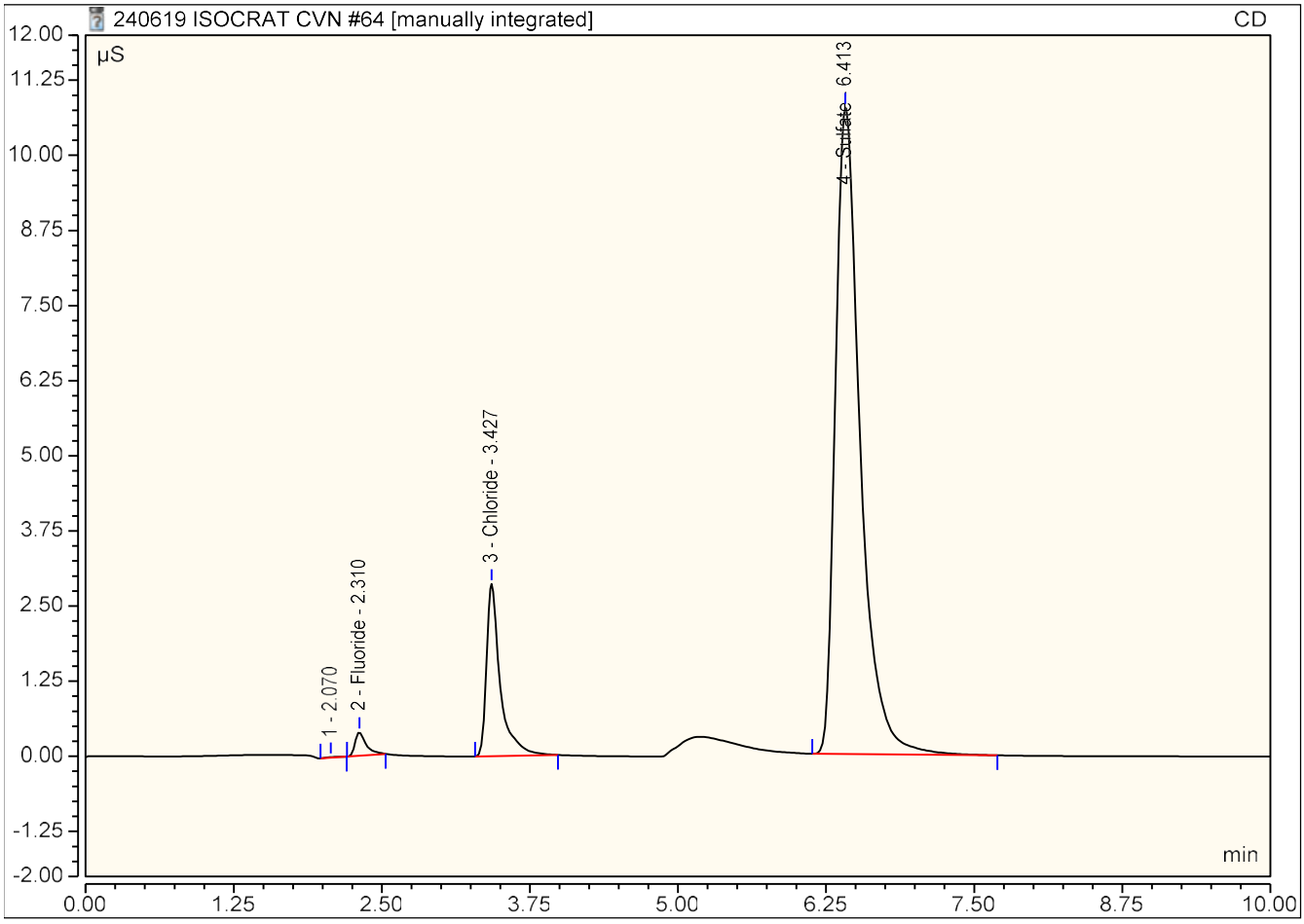
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.002	0.029	0.5504
4	3.42	**Chloride**	BMB	2.893	22.065	69.9190
6	5.83	**Bromide**	BMB	0.002	0.014	0.5156
7	6.44	**Sulfate**	BMB	0.388	1.635	16.6999
TOTAL:				3.29	23.74	87.68



Peak Integration Report

Sample Name:	**L2433365-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 19:55**	*Run Time:*	**10.00**

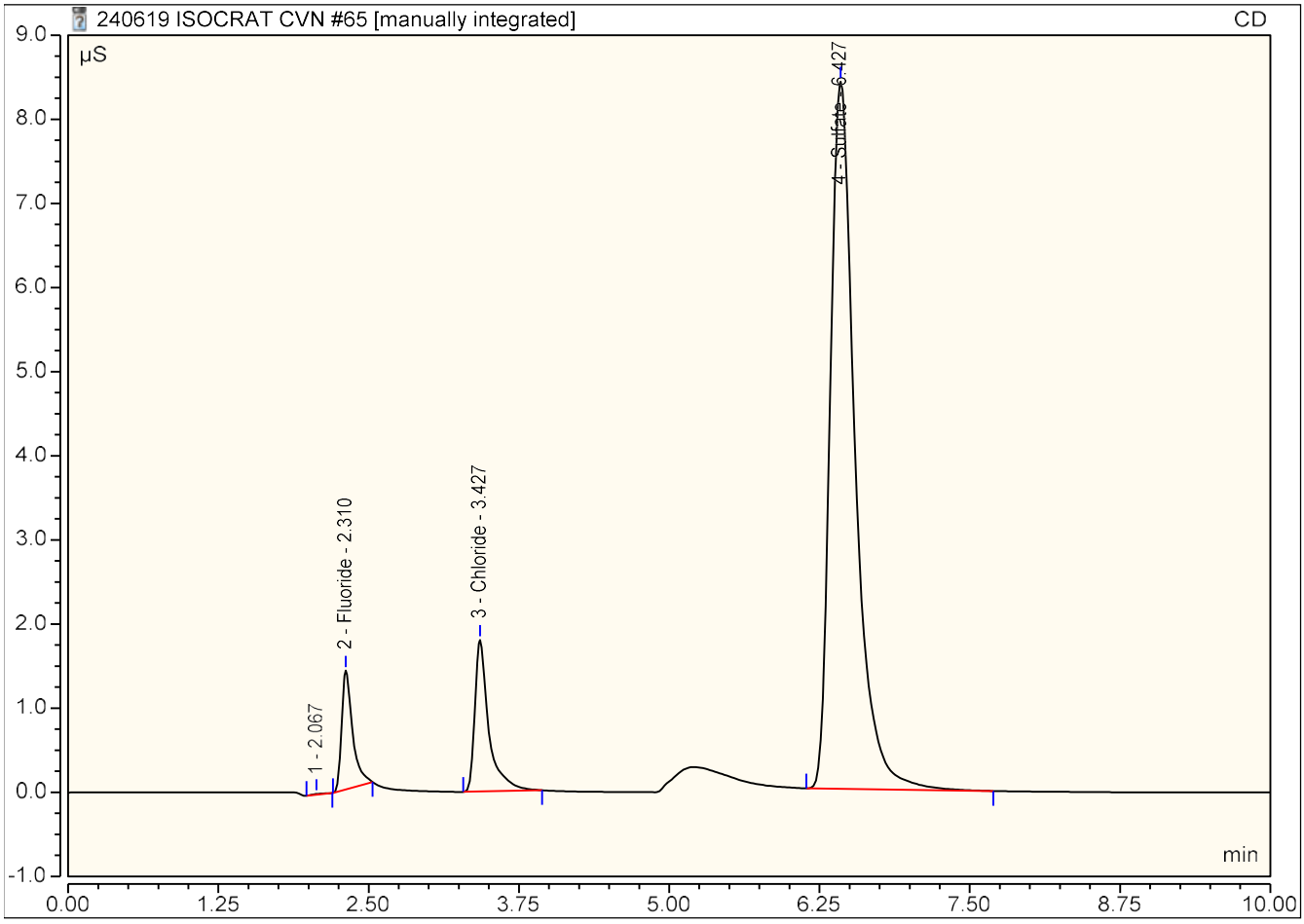
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.043	0.395	1.2223
3	3.43	**Chloride**	BMB*	0.383	2.867	11.2708
4	6.41	**Sulfate**	BMB	2.621	10.758	88.8491
TOTAL:				3.05	14.02	101.34



Peak Integration Report

Sample Name:	**L2433365-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 20:07**	*Run Time:*	**10.00**

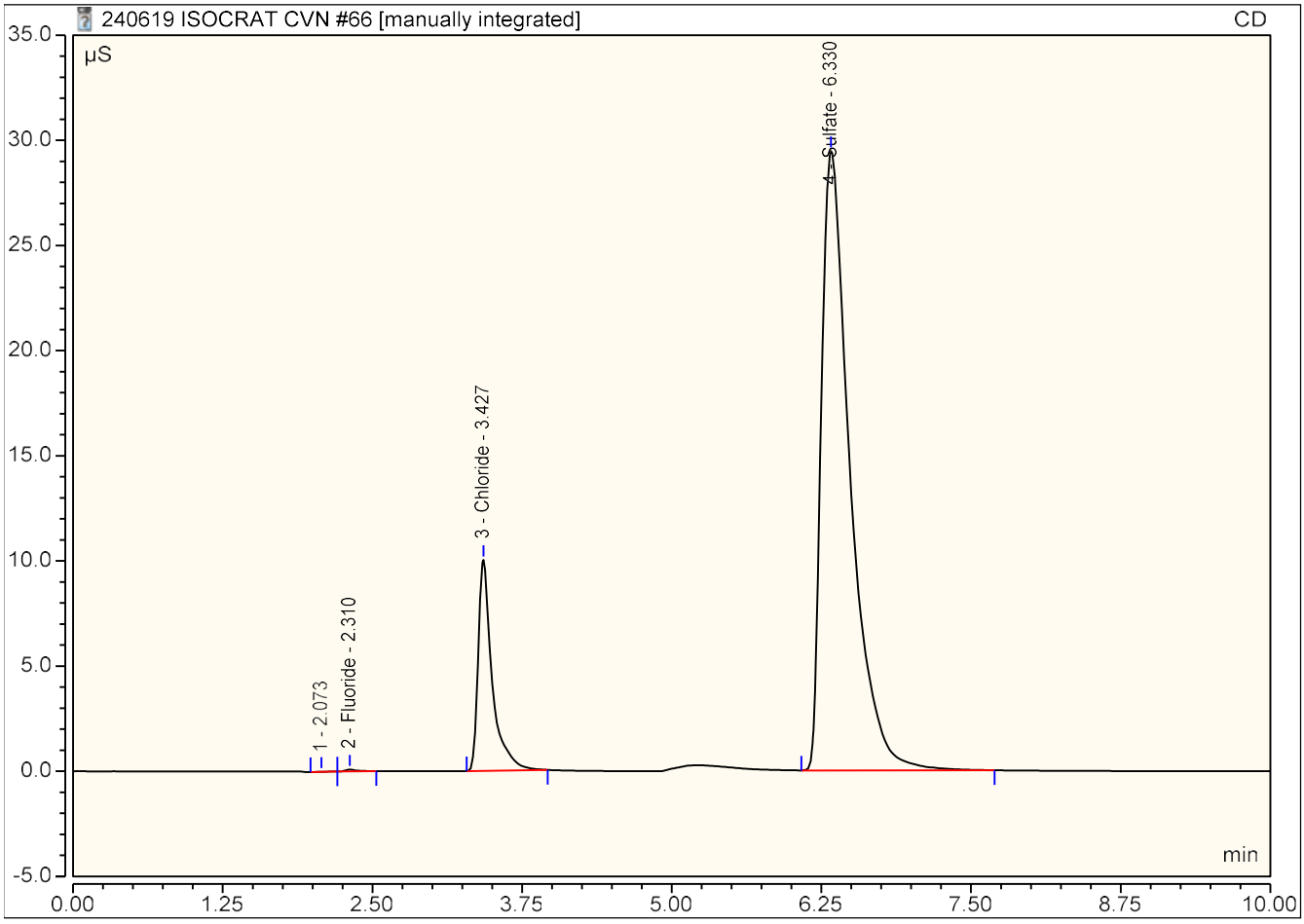
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.148	1.412	2.9880
3	3.43	**Chloride**	BMB*	0.240	1.803	7.9497
4	6.43	**Sulfate**	BMB	2.017	8.408	69.3392
TOTAL:				2.41	11.62	80.28



Peak Integration Report

Sample Name:	**L2433365-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 20:19**	*Run Time:*	**10.00**

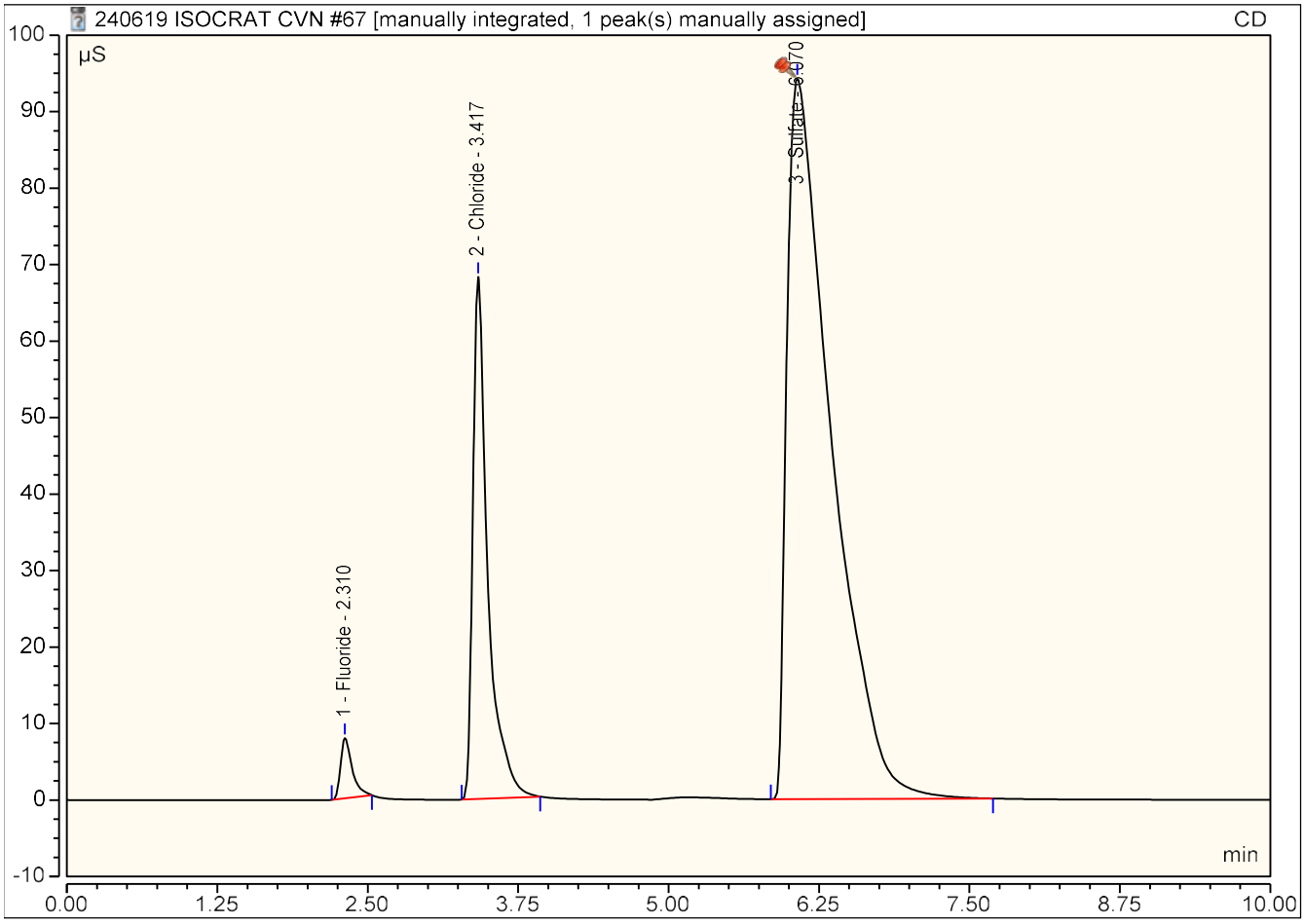
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.010	0.083	0.6705
3	3.43	**Chloride**	BMB*	1.357	10.026	34.0251
4	6.33	**Sulfate**	BMB	8.194	29.439	268.9414
TOTAL:				9.56	39.55	303.64



Peak Integration Report

Sample Name:	**L2433365-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 20:31**	*Run Time:*	**10.00**

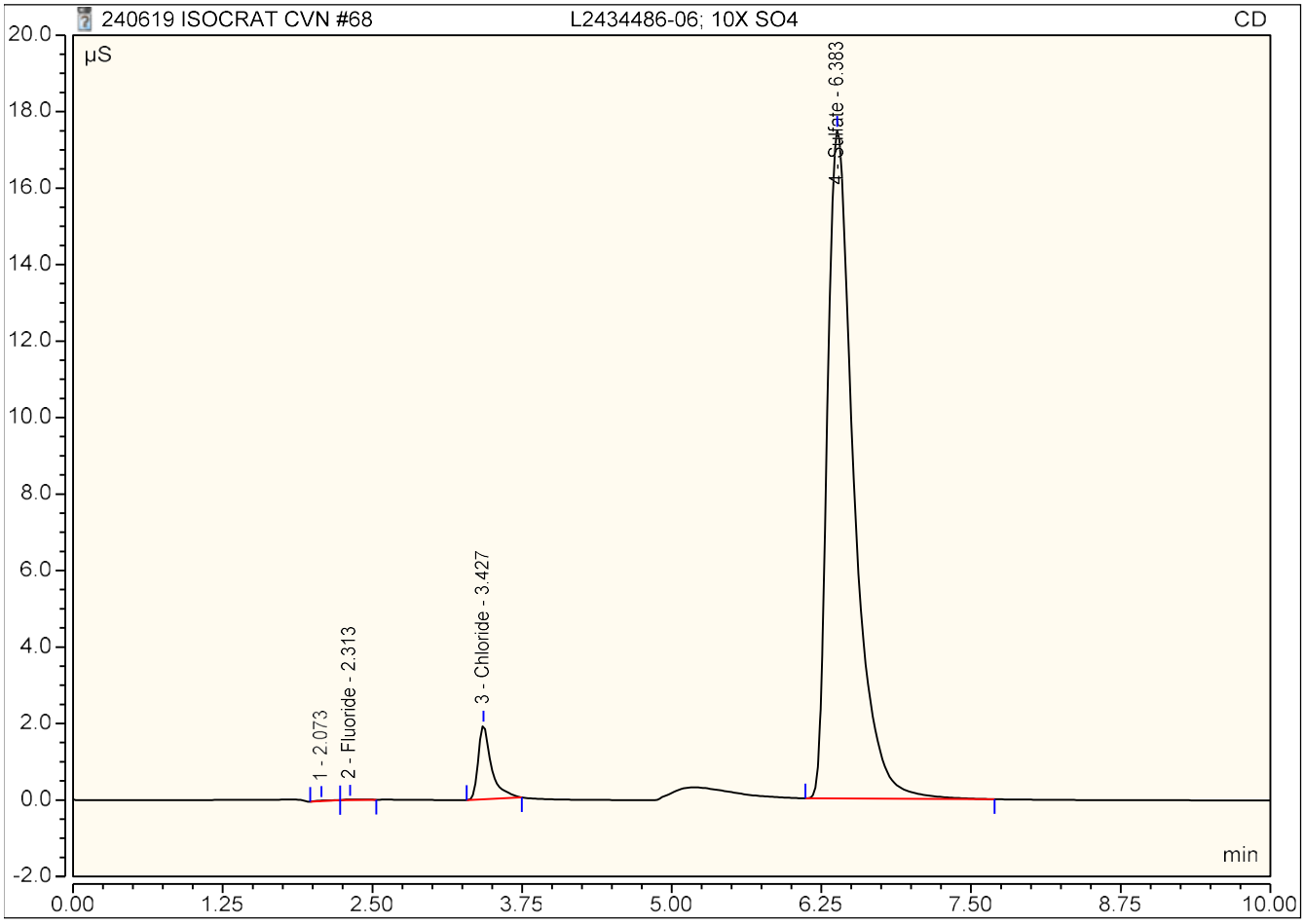
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.881	7.890	15.2458
2	3.42	**Chloride**	BMB*	9.751	68.256	230.0966
3	6.07	**Sulfate**	BMB^	40.289	94.228	1306.1243
TOTAL:				50.92	170.37	1551.47



Peak Integration Report

Sample Name:	**L2434486-06; 10X SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 20:43**	*Run Time:*	**10.00**

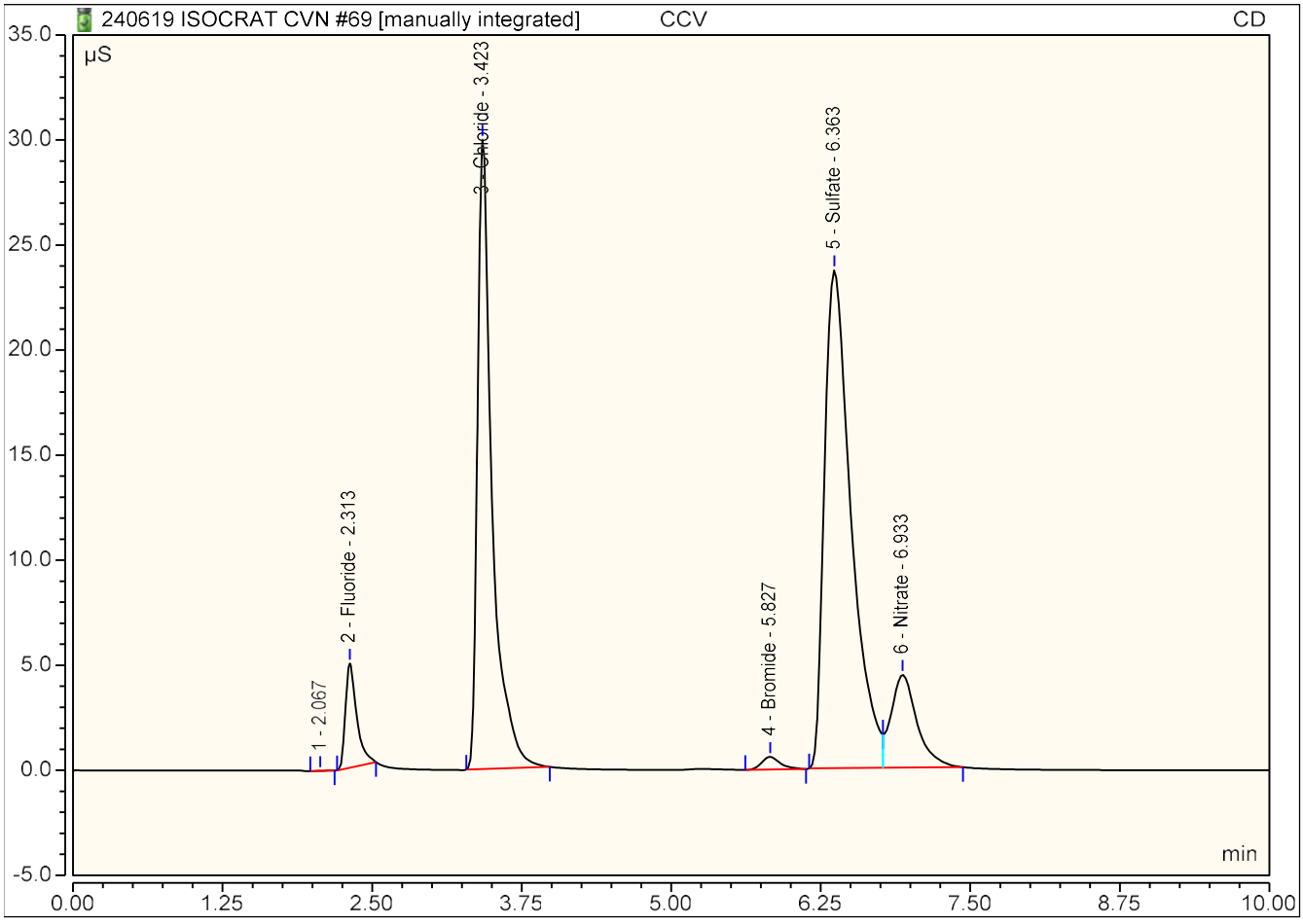
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.016	0.5497
3	3.43	**Chloride**	BMB	0.245	1.929	8.0638
4	6.38	**Sulfate**	BMB	4.476	17.468	148.8067
TOTAL:				4.72	19.41	157.42



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 20:56**	*Run Time:*	**10.00**

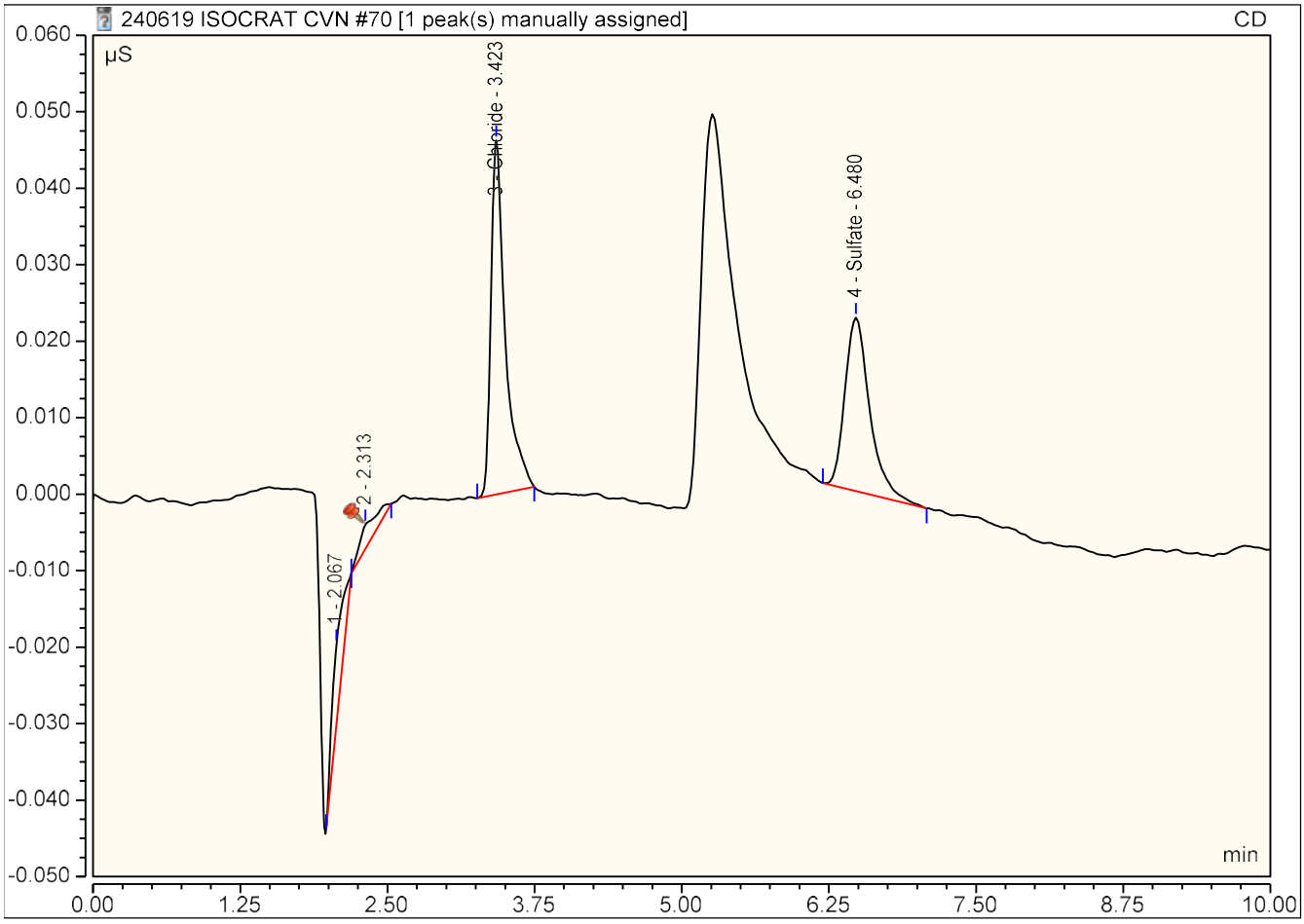
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.538	4.955	0.9511
3	3.42	**Chloride**	BMB*	4.227	29.968	10.1071
4	5.83	**Bromide**	BMB	0.107	0.600	0.9337
5	6.36	**Sulfate**	BM *	6.130	23.715	20.2265
6	6.93	**Nitrate**	MB*	1.120	4.426	1.0415
TOTAL:				12.12	63.66	33.26



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 21:08**	*Run Time:*	**10.00**

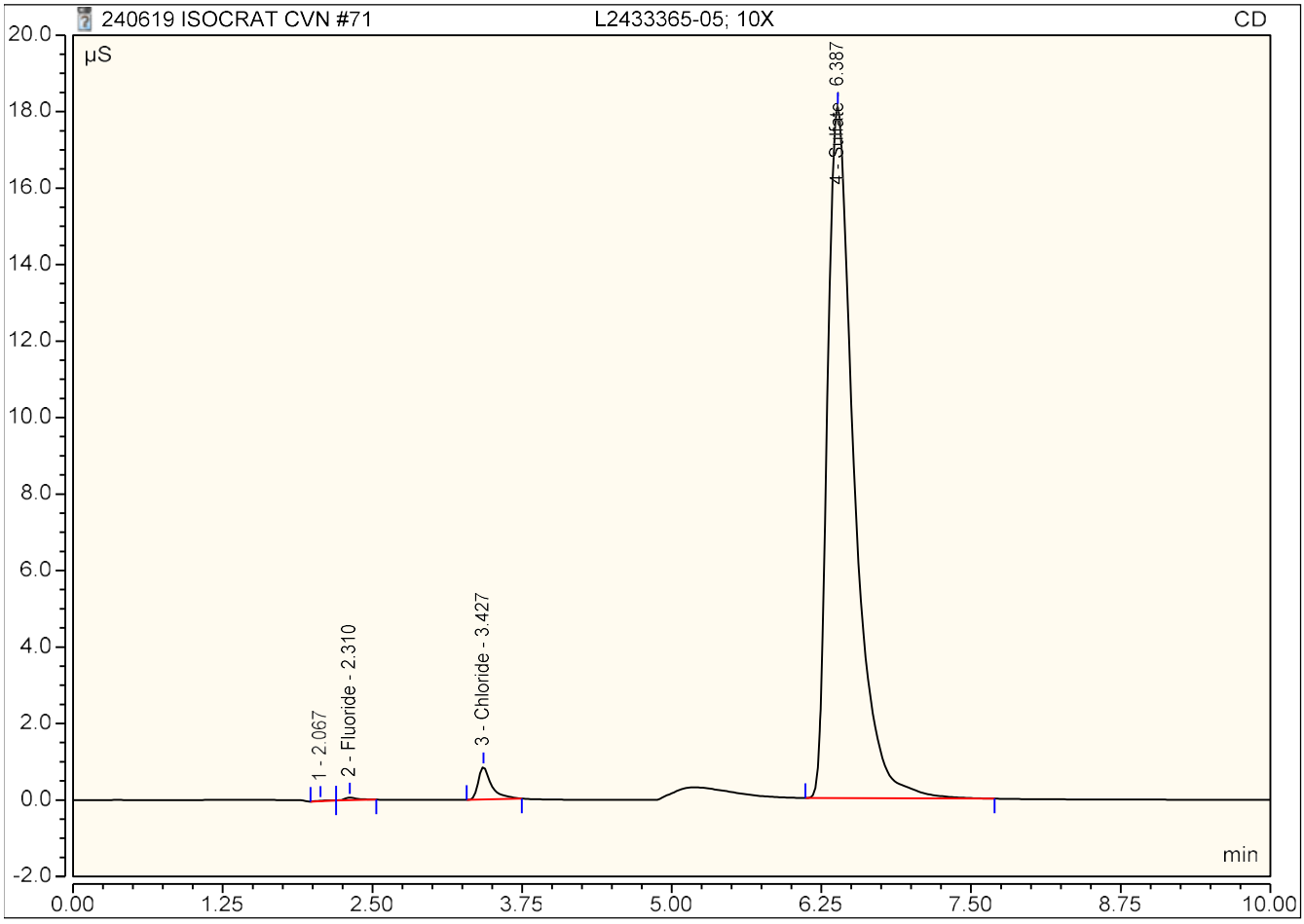
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB	0.006	0.046	0.2485
4	6.48	**Sulfate**	BMB	0.006	0.023	0.4343
TOTAL:				0.01	0.07	0.68



Peak Integration Report

Sample Name:	**L2433365-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 21:20**	*Run Time:*	**10.00**

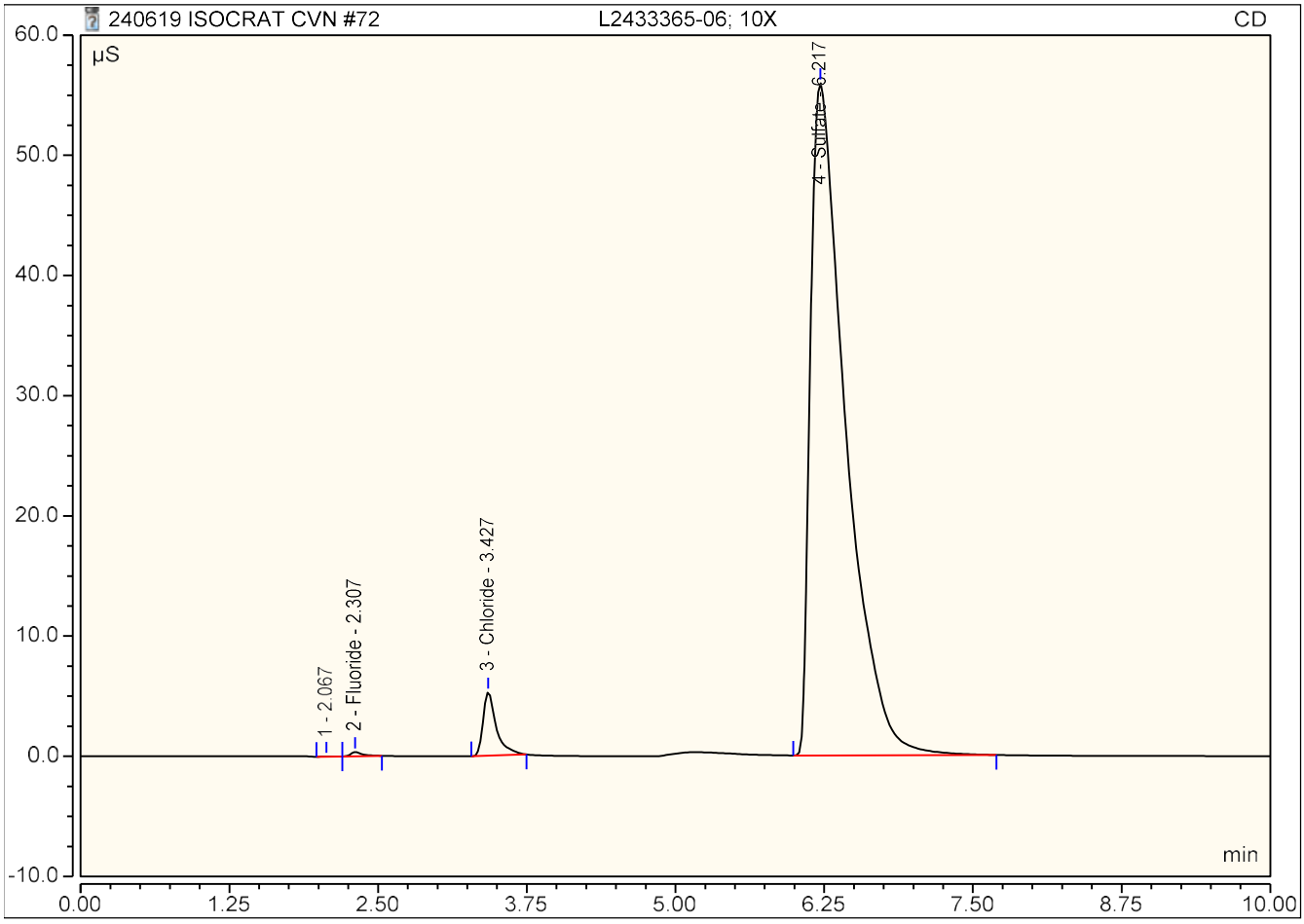
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.008	0.069	0.6478
3	3.43	**Chloride**	BMB	0.109	0.849	4.8828
4	6.39	**Sulfate**	BMB	4.651	18.065	154.4736
TOTAL:				4.77	18.98	160.00



Peak Integration Report

Sample Name:	**L2433365-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 21:32**	*Run Time:*	**10.00**

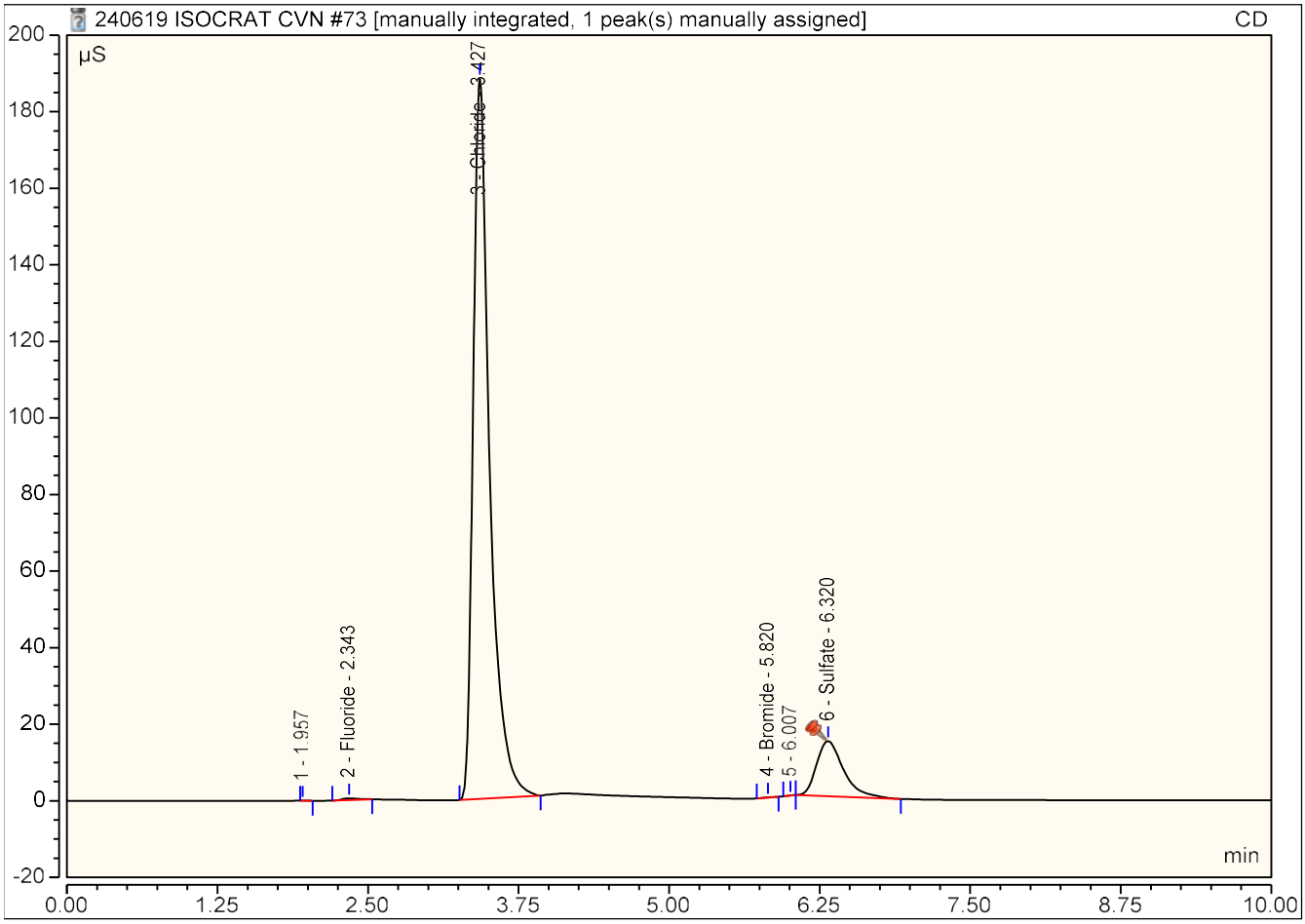
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.039	0.355	1.1653
3	3.43	**Chloride**	BMB	0.683	5.283	18.2933
4	6.22	**Sulfate**	BMB	19.173	55.945	623.7527
TOTAL:				19.90	61.58	643.21



Peak Integration Report

Sample Name:	**L2433502-02 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 21:44**	*Run Time:*	**10.00**

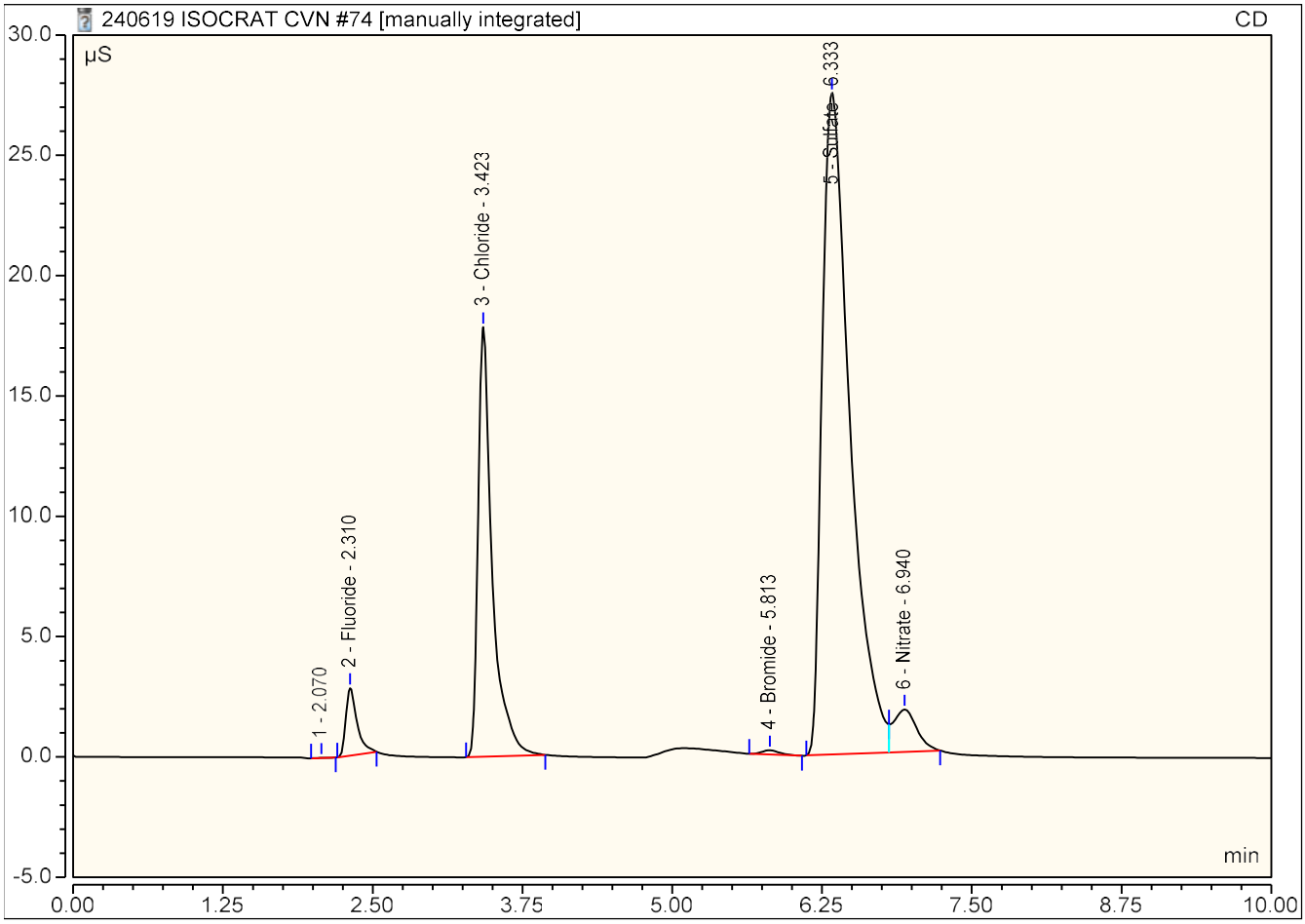
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.072	0.460	0.1716
3	3.43	**Chloride**	BMB*	29.867	188.278	69.9958
4	5.82	**Bromide**	BMB	0.004	0.048	0.0736
6	6.32	**Sulfate**	BMB^	3.721	14.400	12.4405
TOTAL:				33.66	203.19	82.68



Peak Integration Report

Sample Name:	**L2433365-01 MS; 5X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**5.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 21:56**	*Run Time:*	**10.00**

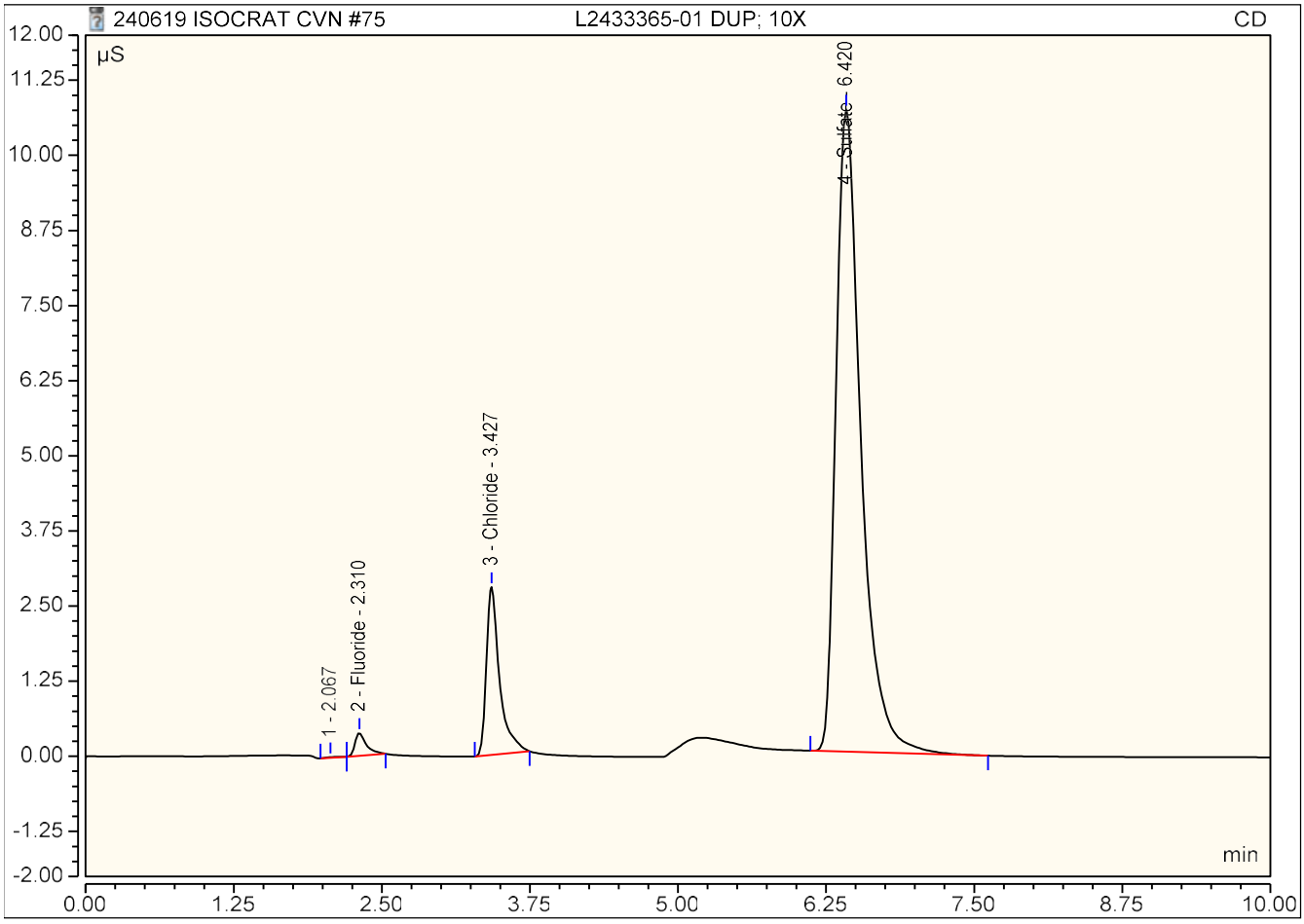
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.302	2.807	2.7815
3	3.42	**Chloride**	BMB*	2.450	17.850	29.7765
4	5.81	**Bromide**	BMB	0.030	0.179	1.4442
5	6.33	**Sulfate**	BM *	7.423	27.479	122.0214
6	6.94	**Nitrate**	MB*	0.399	1.759	1.9537
TOTAL:				10.60	50.07	157.98



Peak Integration Report

Sample Name:	**L2433365-01 DUP; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 22:08**	*Run Time:*	**10.00**

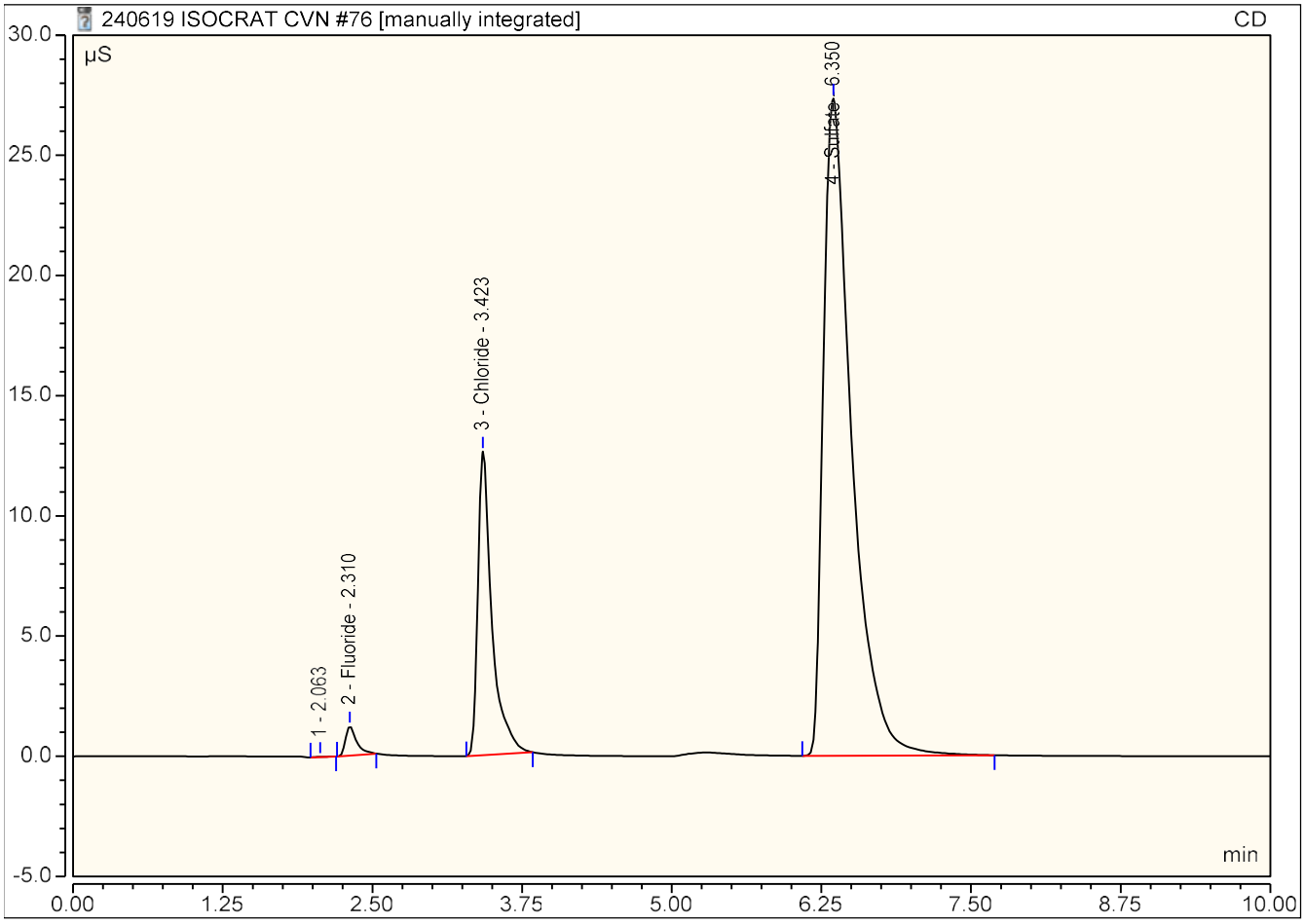
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.043	0.381	1.2213
3	3.43	**Chloride**	BMB	0.358	2.794	10.6994
4	6.42	**Sulfate**	BMB	2.620	10.687	88.8298
TOTAL:				3.02	13.86	100.75



Peak Integration Report

Sample Name:	**L2433365-04; 50X SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 22:20**	*Run Time:*	**10.00**

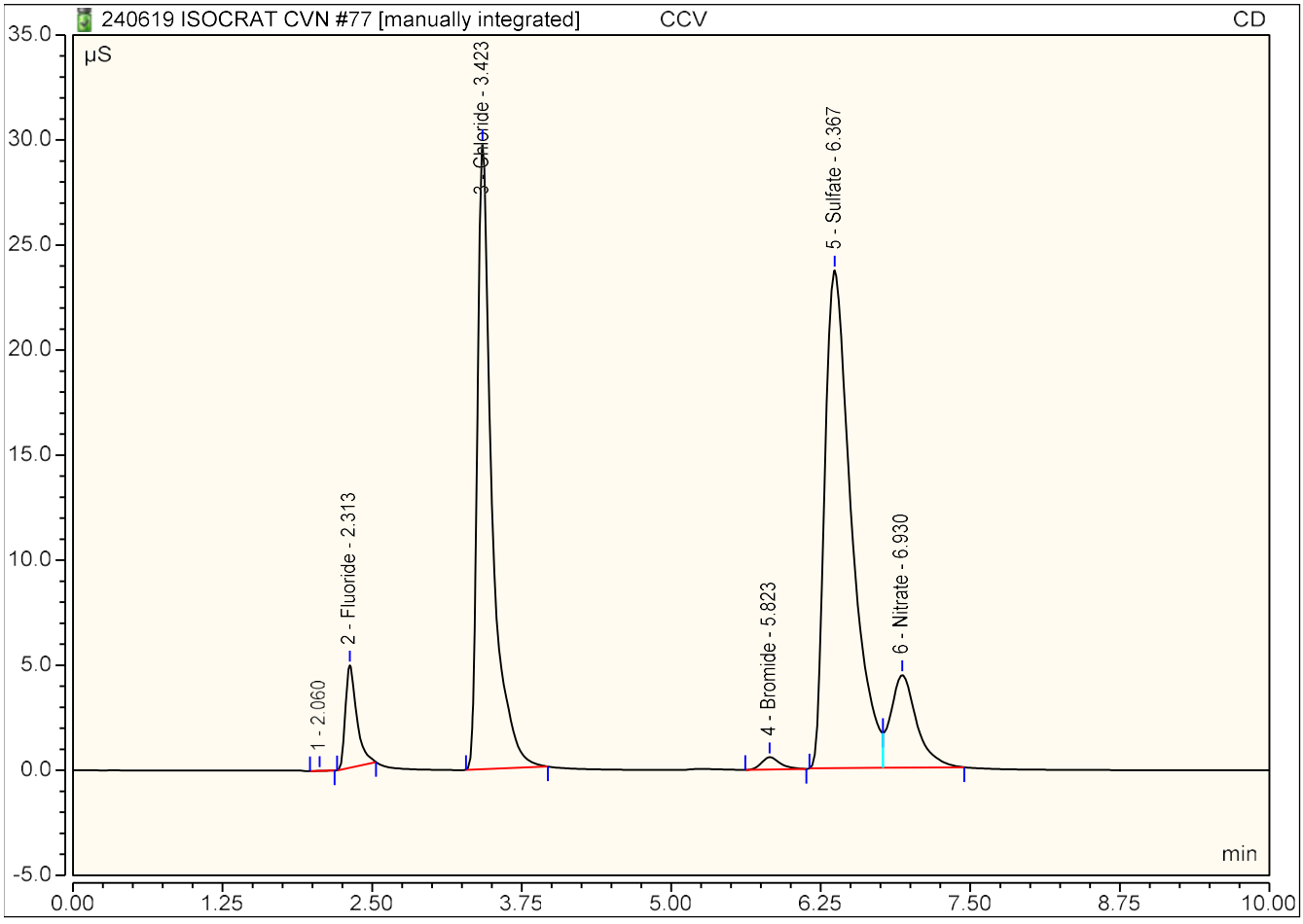
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.130	1.222	13.4462
3	3.42	**Chloride**	BMB*	1.715	12.626	211.9908
4	6.35	**Sulfate**	BMB	7.503	27.336	1233.1742
TOTAL:				9.35	41.18	1458.61



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 22:32**	*Run Time:*	**10.00**

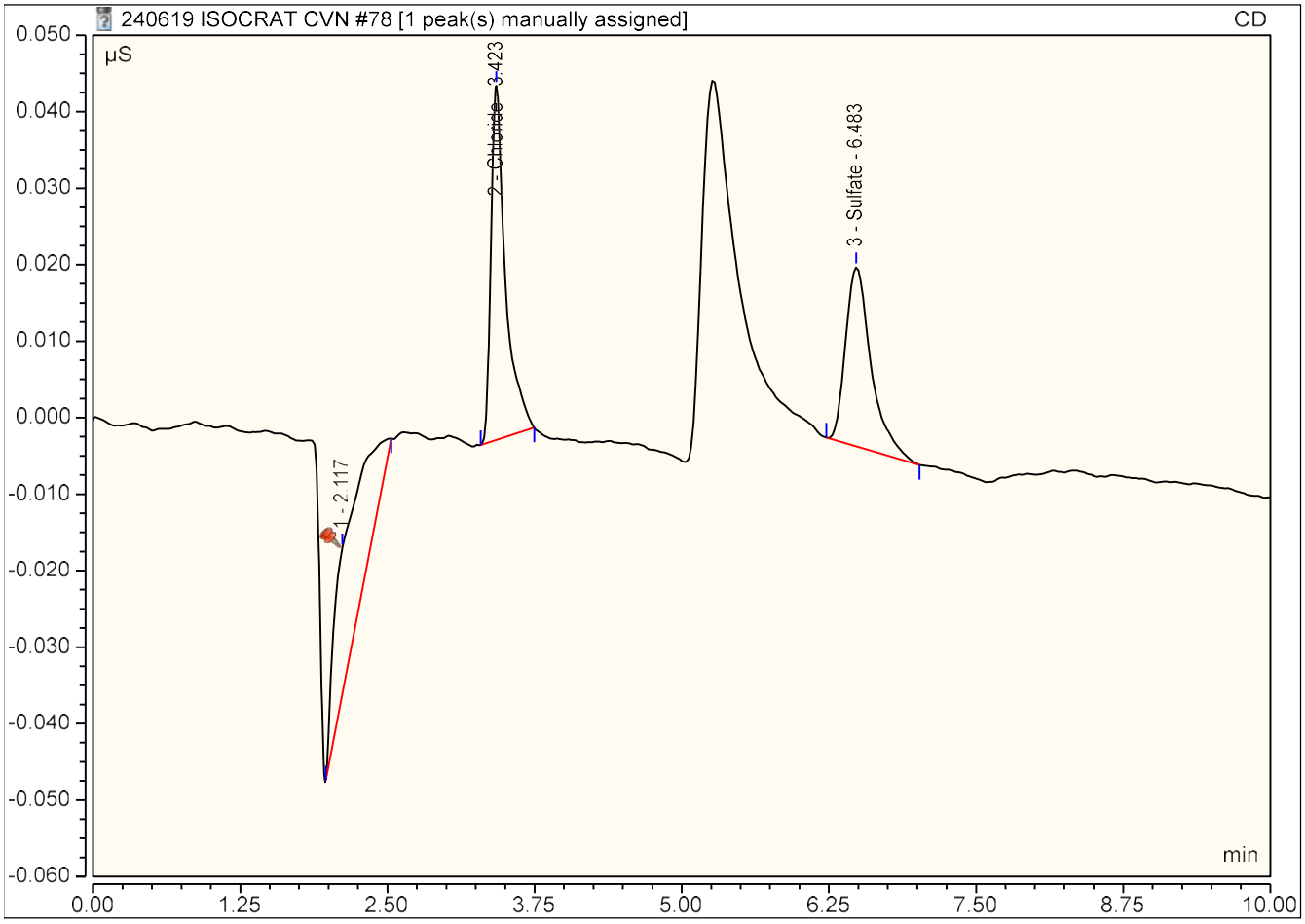
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.532	4.873	0.9417
3	3.42	**Chloride**	BMB*	4.211	29.758	10.0686
4	5.82	**Bromide**	BMB	0.105	0.587	0.9201
5	6.37	**Sulfate**	BM *	6.109	23.695	20.1573
6	6.93	**Nitrate**	MB*	1.121	4.420	1.0428
TOTAL:				12.08	63.33	33.13



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**19-Jun-2024 / 22:44**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.007	0.046	0.2488
3	6.48	**Sulfate**	BMB	0.006	0.023	0.4354
TOTAL:				0.01	0.07	0.68



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2384	n.a.	0.4226	n.a.
2	STD 0.5	1.0	0.0680	0.4130	0.0513	0.7547	0.0483
3	STD 1.0	1.0	0.0818	0.6145	0.0661	1.1659	0.0688
4	STD 2.0	1.0	0.1890	1.9848	0.1826	3.9467	0.1901
5	STD 3.0	1.0	0.4596	4.9033	0.4653	9.8731	0.4567
6	STD 4.0	1.0	1.9544	19.7101	2.0097	39.5794	2.0111
7	STD 5.0	1.0	5.0222	50.1243	5.7047	100.1801	5.7054
8	RINSE	1.0	n.a.	0.2464	n.a.	0.4235	n.a.
9	CCV	1.0	0.9806	10.1180	1.0356	20.3386	0.9746
10	CCB	1.0	n.a.	0.2537	0.0309	0.4533	n.a.
11	ICV	1.0	0.8008	8.3109	0.7741	8.0985	0.8105
12	ICB	1.0	n.a.	0.2542	n.a.	0.4401	n.a.
13	BLK	1.0	n.a.	0.2429	n.a.	0.4251	n.a.
14	LCS	1.0	0.7971	8.2901	0.7873	8.0669	0.8040
15	BLK-2	1.0	n.a.	0.2446	n.a.	0.4278	n.a.
16	LCS-2	1.0	0.8036	8.2723	0.7804	8.0959	0.8086
17	L2434420-01 CL SO4 NO3	1.0	0.0721	1079.7141	n.a.	n.a.	n.a.
18	L2434420-02	1.0	0.1185	712.0004	n.a.	75.7102	2.2745
19	L2434420-03	1.0	0.0744	161.0113	n.a.	38.0383	0.2816
20	L2434420-10	1.0	n.a.	0.2740	n.a.	0.4206	n.a.
21	CCV	1.0	1.0540	10.1692	1.0485	20.1870	0.9549
22	CCB	1.0	n.a.	0.2623	n.a.	0.4429	n.a.
23	L2434420-05	1.0	0.6963	273.3614	n.a.	42.6503	0.8733
24	L2434420-06	1.0	0.2130	115.1458	n.a.	1.6398	0.1434
25	L2434420-07	1.0	0.3283	130.6546	0.0314	2.2129	0.3806
26	L2434420-09	1.0	0.0560	0.2714	0.0326	0.4306	n.a.
27	L2434159-01	1.0	0.5941	67.9073	0.5602	9.1132	n.a.
28	L2434159-01; 10X	10.0	0.9285	71.3231	0.7727	11.7062	n.a.
29	L2434159-02	1.0	n.a.	0.2392	0.0308	0.4204	0.0405
30	L2434159-03 MS	1.0	0.3775	3.9519	0.3837	7.8610	0.3550
31	L2434159-03 DUP	1.0	n.a.	0.2390	n.a.	0.4482	0.0390
32	L2434159-03	1.0	n.a.	0.2557	n.a.	0.4888	n.a.
33	CCV	1.0	0.9583	10.0760	1.0270	20.2449	0.9373
34	CCB	1.0	n.a.	0.2551	n.a.	0.4390	n.a.
35	L2434159-04 MS	1.0	0.4038	4.1445	0.4037	8.2749	0.3728
36	L2434159-04 DUP	1.0	n.a.	0.2414	0.0312	0.4238	n.a.
37	L2434159-04	1.0	n.a.	0.2419	0.0311	0.4243	n.a.
38	L2433375-01	1.0	n.a.	0.2618	0.0323	0.4302	n.a.
39	L2433375-02	1.0	0.0647	3.9208	0.8635	31.7880	n.a.
40	L2433375-03	1.0	0.0650	3.8918	0.8185	32.1418	n.a.
41	L2433375-04 MS	1.0	0.3979	31.2057	7.1484	24.7750	0.3687
42	L2433375-04 MSD	1.0	0.3990	31.2667	7.0813	24.7502	0.3671
43	L2433375-04	1.0	0.0701	28.2235	6.8829	17.4311	n.a.
44	CCV	1.0	0.9610	10.1739	1.0468	20.3229	0.9502
45	CCB	1.0	n.a.	0.2545	n.a.	0.4419	n.a.

46	L2433375-05	1.0	0.0628	46.3046	2.5754	9.4657	0.0413
47	L2433375-06	1.0	0.0700	17.2105	5.3953	14.7474	n.a.
48	L2433375-07	1.0	0.0616	11.9961	0.5144	7.5953	n.a.
49	L2433375-08	1.0	0.0714	13.3683	2.2799	18.6019	0.0458
50	L2433492-01 CL; 25X	25.0	1.3885	17.0868	0.8425	19.2307	n.a.
51	L2434420-01; 25X	25.0	1.3165	1129.5720	n.a.	471.6362	3.5635
52	L2434420-02; 25X	25.0	1.3337	743.4197	n.a.	79.9384	2.5020
53	L2434420-03; 10X	10.0	0.5344	171.3039	n.a.	41.0251	0.4763
54	L2434420-05; 10X	10.0	1.0116	292.6467	n.a.	45.9621	0.9737
55	L2434420-06; 10X	10.0	0.6559	124.1003	n.a.	5.2250	0.3867
56	L2434420-07; 10X	10.0	0.7425	136.5195	0.3085	5.7302	n.a.
57	CCV	1.0	0.9560	10.1122	1.0302	20.3151	0.9289
58	CCB	1.0	n.a.	0.2481	n.a.	0.4343	n.a.
59	L2434486-01 NO3 SO4	1.0	0.0654	24.8642	n.a.	41.4867	n.a.
60	L2434486-05	1.0	0.0721	20.5427	n.a.	25.8738	0.0516
61	L2434486-06	1.0	0.0839	6.9175	n.a.	139.8180	n.a.
62	L2434486-07	1.0	0.0731	28.6873	n.a.	74.9173	0.1237
63	XL2433502-02 BR; 10X	10.0	0.5504	69.9190	n.a.	16.6999	0.5156
64	L2433365-01; 10X	10.0	1.2223	11.2708	n.a.	88.8491	n.a.
65	L2433365-02; 10X	10.0	2.9880	7.9497	n.a.	69.3392	n.a.
66	L2433365-03; 10X	10.0	0.6705	34.0251	n.a.	268.9414	n.a.
67	L2433365-04; 10X	10.0	15.2458	230.0966	n.a.	1306.1243	n.a.
68	L2434486-06; 10X SO4	10.0	0.5497	8.0638	n.a.	148.8067	n.a.
69	CCV	1.0	0.9511	10.1071	1.0415	20.2265	0.9337
70	CCB	1.0	n.a.	0.2485	n.a.	0.4343	n.a.
71	L2433365-05; 10X	10.0	0.6478	4.8828	n.a.	154.4736	n.a.
72	L2433365-06; 10X	10.0	1.1653	18.2933	n.a.	623.7527	n.a.
73	L2433502-02 BR	1.0	0.1716	69.9958	n.a.	12.4405	0.0736
74	L2433365-01 MS; 5X	5.0	2.7815	29.7765	1.9537	122.0214	1.4442
75	L2433365-01 DUP; 10X	10.0	1.2213	10.6994	n.a.	88.8298	n.a.
76	L2433365-04; 50X SO4	50.0	13.4462	211.9908	n.a.	1233.1742	n.a.
77	CCV	1.0	0.9417	10.0686	1.0428	20.1573	0.9201
78	CCB	1.0	n.a.	0.2488	n.a.	0.4354	n.a.
	Sum:	329.000	70.0421		57.0990	5793.0600	33.1979
	Average:	4.218	1.1872		1.4641	75.2345	0.8512
	Rel.Std.Dev:	180.663 %	2.2141		1.4003	2.9022	1.2947

Inject Time	Comment
12/Jun/2024 16:46	AU
12/Jun/2024 16:58	LOT#240606-0.5
12/Jun/2024 17:10	LOT#240606-1.0
12/Jun/2024 17:22	LOT#240606-2.0
12/Jun/2024 17:34	LOT#240606-3.0
12/Jun/2024 17:46	LOT#240606-4.0
12/Jun/2024 17:58	LOT#240508-5.0
19/Jun/2024 08:38	936473-6646-6511-6475
19/Jun/2024 08:50	LOT#240618-C
19/Jun/2024 09:02	CVN
19/Jun/2024 09:14	LOT#240618-I
19/Jun/2024 09:26	CVN
19/Jun/2024 09:38	CVN
19/Jun/2024 09:50	LOT#240618-I
19/Jun/2024 10:03	CVN
19/Jun/2024 10:15	LOT#240618-I
19/Jun/2024 10:27	CVN
19/Jun/2024 10:39	CVN
19/Jun/2024 10:51	CVN
19/Jun/2024 11:03	CVN
19/Jun/2024 11:15	LOT#240618-C
19/Jun/2024 11:27	CVN
19/Jun/2024 11:39	CVN
19/Jun/2024 11:51	CVN
19/Jun/2024 12:03	CVN
19/Jun/2024 12:16	CVN
19/Jun/2024 12:28	CVN
19/Jun/2024 12:40	CVN
19/Jun/2024 12:52	CVN
19/Jun/2024 13:04	CVN
19/Jun/2024 13:16	CVN
19/Jun/2024 13:28	CVN
19/Jun/2024 13:40	LOT#240618-C
19/Jun/2024 13:52	CVN
19/Jun/2024 14:04	CVN
19/Jun/2024 14:16	CVN
19/Jun/2024 14:28	CVN
19/Jun/2024 14:41	CVN
19/Jun/2024 14:53	CVN
19/Jun/2024 15:05	CVN
19/Jun/2024 15:17	CVN
19/Jun/2024 15:29	CVN
19/Jun/2024 15:41	CVN
19/Jun/2024 15:53	LOT#240618-C
19/Jun/2024 16:05	CVN

19/Jun/2024 16:17	CVN
19/Jun/2024 16:29	CVN
19/Jun/2024 16:41	CVN
19/Jun/2024 16:54	CVN
19/Jun/2024 17:06	CVN
19/Jun/2024 17:18	CVN
19/Jun/2024 17:30	CVN
19/Jun/2024 17:42	CVN
19/Jun/2024 17:54	CVN
19/Jun/2024 18:06	CVN
19/Jun/2024 18:18	CVN
19/Jun/2024 18:30	LOT#240618-C
19/Jun/2024 18:42	CVN
19/Jun/2024 18:54	CVN
19/Jun/2024 19:07	CVN
19/Jun/2024 19:19	CVN
19/Jun/2024 19:31	CVN
19/Jun/2024 19:43	CVN
19/Jun/2024 19:55	CVN
19/Jun/2024 20:07	CVN
19/Jun/2024 20:19	CVN
19/Jun/2024 20:31	CVN
19/Jun/2024 20:43	CVN
19/Jun/2024 20:56	LOT#240618-C
19/Jun/2024 21:08	CVN
19/Jun/2024 21:20	CVN
19/Jun/2024 21:32	CVN
19/Jun/2024 21:44	CVN
19/Jun/2024 21:56	CVN
19/Jun/2024 22:08	CVN
19/Jun/2024 22:20	CVN
19/Jun/2024 22:32	LOT#240618-C
19/Jun/2024 22:44	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1936473-3	**MS Analysis Date**	: 06/19/24 15:17
Matrix Spike Dup	: WG1936473-4	**MSD Analysis Date**	: 06/19/24 15:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	**ND**	**0.4**	**0.369**	**92**	**0.4**	**0.367**	**92**	**1**	**90-110**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433375
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936473-2	**LCS Analysis Date**	: 06/19/24 10:15
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Bromide	0.800	0.809	101.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

June 21, 2024

Jennifer Byrnes

,

RE: Project: L2433375
Pace Project No.: 70301608

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory between June 13, 2024 and June 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2433375
Pace Project No.: 70301608

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2433375
Pace Project No.: 70301608

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70301608001	**EB_06132024**	Water	06/13/24 12:30	06/13/24 15:27
70301608002	**DUP_06132024**	Water	06/13/24 11:00	06/13/24 15:27
70301608003	**PZ-5**	Water	06/13/24 08:50	06/13/24 15:27
70301608004	**MW-5D**	Water	06/13/24 09:00	06/13/24 15:27
70301608005	**MW-12S**	Water	06/13/24 10:35	06/13/24 15:27
70301608006	**MW-12D**	Water	06/13/24 10:30	06/13/24 15:27
70301608008	**MW-4D2**	Water	06/13/24 11:40	06/13/24 15:27
70301608009	**MW-4S**	Water	06/13/24 11:45	06/19/24 08:00

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SAMPLE ANALYTE COUNT

Project: L2433375
Pace Project No.: 70301608

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70301608001	**EB_06132024**	SM22 4500-S2 F	JWM	1
70301608002	**DUP_06132024**	SM22 4500-S2 F	JWM	1
70301608003	**PZ-5**	SM22 4500-S2 F	JWM	1
70301608004	**MW-5D**	SM22 4500-S2 F	JWM	1
70301608005	**MW-12S**	SM22 4500-S2 F	JWM	1
70301608006	**MW-12D**	SM22 4500-S2 F	JWM	1
70301608008	**MW-4D2**	SM22 4500-S2 F	JWM	1
70301608009	**MW-4S**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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PROJECT NARRATIVE

Project: L2433375
Pace Project No.: 70301608

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: June 21, 2024

General Information:
8 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: EB_06132024 **Lab ID: 70301608001** Collected: 06/13/24 12:30 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:33		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: DUP_06132024 **Lab ID: 70301608002** Collected: 06/13/24 11:00 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:36		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: PZ-5 **Lab ID: 70301608003** Collected: 06/13/24 08:50 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:39		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-5D **Lab ID: 70301608004** Collected: 06/13/24 09:00 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:42		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-12S **Lab ID: 70301608005** Collected: 06/13/24 10:35 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:48		

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516-370-6000

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-12D **Lab ID: 70301608006** Collected: 06/13/24 10:30 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:51		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-4D2 **Lab ID: 70301608008** Collected: 06/13/24 11:40 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:55		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-4S **Lab ID: 70301608009** Collected: 06/13/24 11:45 Received: 06/19/24 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 16:05		

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QUALITY CONTROL DATA

Project: L2433375
Pace Project No.: 70301608

QC Batch: 352320 | Analysis Method: SM22 4500-S2 F
QC Batch Method: SM22 4500-S2 F | Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70301608001, 70301608002, 70301608003, 70301608004, 70301608005, 70301608006, 70301608008, 70301608009

METHOD BLANK: 1825078 Matrix: Water
Associated Lab Samples: 70301608001, 70301608002, 70301608003, 70301608004, 70301608005, 70301608006, 70301608008, 70301608009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	06/20/24 15:25	

LABORATORY CONTROL SAMPLE & LCSD: 1825079 1825080

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

SAMPLE DUPLICATE: 1825081

Parameter	Units	70301608004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	<0.20	<0.20		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2433375
Pace Project No.: 70301608

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433375
Pace Project No.: 70301608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70301608001	**EB_06132024**	SM22 4500-S2 F	352320		
70301608002	**DUP_06132024**	SM22 4500-S2 F	352320		
70301608003	**PZ-5**	SM22 4500-S2 F	352320		
70301608004	**MW-5D**	SM22 4500-S2 F	352320		
70301608005	**MW-12S**	SM22 4500-S2 F	352320		
70301608006	**MW-12D**	SM22 4500-S2 F	352320		
70301608008	**MW-4D2**	SM22 4500-S2 F	352320		
70301608009	**MW-4S**	SM22 4500-S2 F	352320		

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WO#: 70301608

70301608

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2433375

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433375

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06132024	06-13-24 12:30	Equipment Blank	Sulfide	MS;MSD
	DUP_06132024	06-13-24 11:00	WATER	Sulfide	
	PZ-5	06-13-24 08:50	WATER	Sulfide	
	MW-5D	06-13-24 09:00	WATER	Sulfide	
	MW-12S	06-13-24 10:35	WATER	Sulfide	
	MW-12D	06-13-24 10:30	WATER	Sulfide	
	MW-4S	06-13-24 11:45	WATER	Sulfide	
	MW-4D2	06-13-24 11:40	WATER	Sulfide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/18/24		6/18, 1800
		6/18 0200		6/18/24 9:45
		6/16/24		6/16/24 4:10
Form No: AL_subcoc		6/16/24 8:00		6/19/24, 8:00

DC#_Title: Excel Form Template
Effective Date:

WO#: 70301608
PM: BDR **Due Date: 06/25/24**
CLIENT: ALPHA

Client Name: Alpha Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☑ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplot ☐ None ☐ Other Type of Ice: ☑ Wet ☐ Blue ☐ None

Thermometer Used: TH211 Correction Factor: -0.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.2 Cooler Temperature Corrected(°C): 3.1 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Ye ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: WK 6/19/24

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: SH 6/19/24

All containers needing preservation have been pH paper Lot #	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Laboratory Report

Report prepared for:
Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581
Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:
Debbie S Robertson

Purchase Order:

For further assistance, contact:
Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2433375 EB_06132024
Lab ID: 2024-U-4649 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.97 mg	2024-06-27

Sample: L2433375 DUP_06132024
Lab ID: 2024-U-4650 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	207.31 mg	2024-06-27

Sample: L2433375 PZ-5
Lab ID: 2024-U-4651 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	207.37 mg	2024-06-27

Sample: L2433375 MW-5D
Lab ID: 2024-U-4652 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.03 mg	2024-06-27

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Sample: L2433375 MW-5D+MS
Lab ID: 2024-U-4653 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	207.49 mg	2024-06-27

Sample: L2433375 MW-5D+SD
Lab ID: 2024-U-4654 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	207.40 mg	2024-06-27

Sample: L2433375 MW-12S
Lab ID: 2024-U-4655 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.17 mg	2024-06-27

Sample: L2433375 MW-12D
Lab ID: 2024-U-4656 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.97 mg	2024-06-27

Sample: L2433375 MW-4S
Lab ID: 2024-U-4657 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	207.01 mg	2024-06-27

Sample: L2433375 MW-4D2
Lab ID: 2024-U-4658 **Received:** 2024-06-19

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.73 mg	2024-06-27

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Signatures:

Published By:	Debbie.S.Robertson	2024-06-28T21:12:36.66-04:00
Created By:	Debbie.S.Robertson	2024-06-28T21:12:16.427-04:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

July 01, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2433375
Pace Project No.: 50376286

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

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CERTIFICATIONS

Project: L2433375
Pace Project No.: 50376286

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2433375
Pace Project No.: 50376286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50376286001	**EB_06132024**	Water	06/13/24 12:30	06/19/24 10:50
50376286002	**DUP_06132024**	Water	06/13/24 11:00	06/19/24 10:50
50376286003	**PZ-5**	Water	06/13/24 08:50	06/19/24 10:50
50376286004	**MW-5D**	Water	06/13/24 09:00	06/19/24 10:50
50376286005	**MW-12S**	Water	06/13/24 10:35	06/19/24 10:50
50376286006	**MW-12D**	Water	06/13/24 10:30	06/19/24 10:50
50376286007	**MW-4S**	Water	06/13/24 11:45	06/19/24 10:50
50376286008	**MW-4D2**	Water	06/13/24 11:40	06/19/24 10:50

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SAMPLE ANALYTE COUNT

Project: L2433375
Pace Project No.: 50376286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50376286001	**EB_06132024**	EPA 9056	ADM	1
50376286002	**DUP_06132024**	EPA 9056	ADM	1
50376286003	**PZ-5**	EPA 9056	ADM	1
50376286004	**MW-5D**	EPA 9056	ADM	1
50376286005	**MW-12S**	EPA 9056	ADM	1
50376286006	**MW-12D**	EPA 9056	ADM	1
50376286007	**MW-4S**	EPA 9056	ADM	1
50376286008	**MW-4D2**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: EB_06132024 **Lab ID: 50376286001** Collected: 06/13/24 12:30 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/28/24 17:39		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: DUP_06132024 **Lab ID: 50376286002** Collected: 06/13/24 11:00 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/28/24 18:01		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: PZ-5 **Lab ID: 50376286003** Collected: 06/13/24 08:50 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 04:02		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-5D **Lab ID: 50376286004** Collected: 06/13/24 09:00 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 03:40		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-12S **Lab ID: 50376286005** Collected: 06/13/24 10:35 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 03:19		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-12D **Lab ID: 50376286006** Collected: 06/13/24 10:30 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 02:13		

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(317)228-3100

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-4S **Lab ID: 50376286007** Collected: 06/13/24 11:45 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 01:51		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-4D2 **Lab ID: 50376286008** Collected: 06/13/24 11:40 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 01:29		

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(317)228-3100

QUALITY CONTROL DATA

Project: L2433375
Pace Project No.: 50376286

QC Batch: 797018
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50376286001, 50376286002, 50376286003, 50376286004, 50376286005, 50376286006, 50376286007, 50376286008

METHOD BLANK: 3646735 Matrix: Water
Associated Lab Samples: 50376286001, 50376286002, 50376286003, 50376286004, 50376286005, 50376286006, 50376286007, 50376286008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	06/28/24 16:56	

LABORATORY CONTROL SAMPLE: 3646736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3646737 3646738

Parameter	Units	50376286004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.8	4.7	95	94	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2433375
Pace Project No.: 50376286

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433375
Pace Project No.: 50376286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50376286001	**EB_06132024**	EPA 9056	797018		
50376286002	**DUP_06132024**	EPA 9056	797018		
50376286003	**PZ-5**	EPA 9056	797018		
50376286004	**MW-5D**	EPA 9056	797018		
50376286005	**MW-12S**	EPA 9056	797018		
50376286006	**MW-12D**	EPA 9056	797018		
50376286007	**MW-4S**	EPA 9056	797018		
50376286008	**MW-4D2**	EPA 9056	797018		

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ALPHA ANALYTICAL
World Class Chemistry

50376286

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2433375

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433375

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com Report to MDL/needs L4 and EDD
265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06132024	06-13-24 12:30	Equipment Blank	Iodide	
	DUP_06132024	06-13-24 11:00	WATER	Iodide	
	PZ-5	06-13-24 08:50	WATER	Iodide	
	MW-5D	06-13-24 09:00	WATER	Iodide	MS;MSD
	MW-12S	06-13-24 10:35	WATER	Iodide	
	MW-12D	06-13-24 10:30	WATER	Iodide	
	MW-4S	06-13-24 11:45	WATER	Iodide	
	MW-4D2	06-13-24 11:40	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/18/24	UPS	
	UPS	6/19/24 10:50		6/19/24 10:50
Form No: AL_subcoc				

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/19/24 19:09 JG

1. **Courier:** ☐ FED EX ☑ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No
   (If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I
4. **Cooler Temperature(s):** 0.6/0.6 | | | |
   (Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**

5. **Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** ☐ Yes ☑ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		—	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		—				—
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			—
Custody Signatures Present?	—		Residual Chlorine Check (Total/Amenable/Free Cyanide)			—
Containers Intact?:	—		Headspace Wisconsin Sulfide?			—
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent —
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		—	
			Trip Blank Custody Seals?:			—

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

			MeOH (only)																															
			SBS						AMBER GLASS							PLASTIC									OTHER							Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			DI																											Red	Yellow	Green	Black
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																		2											WT				
2																		2															
3																		2															
4																		6															
5																		2															
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70301608

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

July 05, 2024

Jennifer Byrnes

,

RE: Project: L2433375
Pace Project No.: 70301608

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory between June 13, 2024 and June 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

REVISION 1: Report revised on July 5, 2024 to include missing COC pages.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2433375
Pace Project No.: 70301608

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2433375
Pace Project No.: 70301608

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70301608001	**EB_06132024**	Water	06/13/24 12:30	06/13/24 15:27
70301608002	**DUP_06132024**	Water	06/13/24 11:00	06/13/24 15:27
70301608003	**PZ-5**	Water	06/13/24 08:50	06/13/24 15:27
70301608004	**MW-5D**	Water	06/13/24 09:00	06/13/24 15:27
70301608005	**MW-12S**	Water	06/13/24 10:35	06/13/24 15:27
70301608006	**MW-12D**	Water	06/13/24 10:30	06/13/24 15:27
70301608008	**MW-4D2**	Water	06/13/24 11:40	06/13/24 15:27
70301608009	**MW-4S**	Water	06/13/24 11:45	06/19/24 08:00

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Melville, NY 11747
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SAMPLE ANALYTE COUNT

Project: L2433375
Pace Project No.: 70301608

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70301608001	**EB_06132024**	SM22 4500-S2 F	JWM	1
70301608002	**DUP_06132024**	SM22 4500-S2 F	JWM	1
70301608003	**PZ-5**	SM22 4500-S2 F	JWM	1
70301608004	**MW-5D**	SM22 4500-S2 F	JWM	1
70301608005	**MW-12S**	SM22 4500-S2 F	JWM	1
70301608006	**MW-12D**	SM22 4500-S2 F	JWM	1
70301608008	**MW-4D2**	SM22 4500-S2 F	JWM	1
70301608009	**MW-4S**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: L2433375
Pace Project No.: 70301608

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: July 05, 2024

General Information:
8 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: EB_06132024 **Lab ID: 70301608001** Collected: 06/13/24 12:30 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:33		

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: DUP_06132024 **Lab ID: 70301608002** Collected: 06/13/24 11:00 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:36		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: PZ-5 **Lab ID: 70301608003** Collected: 06/13/24 08:50 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:39		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-5D **Lab ID: 70301608004** Collected: 06/13/24 09:00 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:42		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-12S **Lab ID: 70301608005** Collected: 06/13/24 10:35 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:48		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-12D **Lab ID: 70301608006** Collected: 06/13/24 10:30 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:51		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-4D2 **Lab ID: 70301608008** Collected: 06/13/24 11:40 Received: 06/13/24 15:27 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 15:55		

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 70301608

Sample: MW-4S **Lab ID: 70301608009** Collected: 06/13/24 11:45 Received: 06/19/24 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/20/24 16:05		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Melville, NY 11747
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QUALITY CONTROL DATA

Project: L2433375
Pace Project No.: 70301608

QC Batch: 352320 | Analysis Method: SM22 4500-S2 F
QC Batch Method: SM22 4500-S2 F | Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70301608001, 70301608002, 70301608003, 70301608004, 70301608005, 70301608006, 70301608008, 70301608009

METHOD BLANK: 1825078 Matrix: Water
Associated Lab Samples: 70301608001, 70301608002, 70301608003, 70301608004, 70301608005, 70301608006, 70301608008, 70301608009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	06/20/24 15:25	

LABORATORY CONTROL SAMPLE & LCSD: 1825079 1825080

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

SAMPLE DUPLICATE: 1825081

Parameter	Units	70301608004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	<0.20	<0.20		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2433375
Pace Project No.: 70301608

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433375
Pace Project No.: 70301608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70301608001	**EB_06132024**	SM22 4500-S2 F	352320		
70301608002	**DUP_06132024**	SM22 4500-S2 F	352320		
70301608003	**PZ-5**	SM22 4500-S2 F	352320		
70301608004	**MW-5D**	SM22 4500-S2 F	352320		
70301608005	**MW-12S**	SM22 4500-S2 F	352320		
70301608006	**MW-12D**	SM22 4500-S2 F	352320		
70301608008	**MW-4D2**	SM22 4500-S2 F	352320		
70301608009	**MW-4S**	SM22 4500-S2 F	352320		

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Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2433375

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433375

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06132024	06-13-24 12:30	Equipment Blank	Sulfide	
	DUP_06132024	06-13-24 11:00	WATER	Sulfide	
	PZ-5	06-13-24 08:50	WATER	Sulfide	
	MW-5D	06-13-24 09:00	WATER	Sulfide	MS;MSD
	MW-12S	06-13-24 10:35	WATER	Sulfide	
	MW-12D	06-13-24 10:30	WATER	Sulfide	
	MW-4S	06-13-24 11:45	WATER	Sulfide	
	MW-4D2	06-13-24 11:40	WATER	Sulfide	

WO# : 70301608

70301608

	Relinquished By:	Date/Time:	Received By:	Date/Time:
			LAR MCM	6/13/24 15:20
Form No: AL_subcoc				

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL
Westborough, MA 01581
8 Walkup Dr.
TEL 508-898-9220
FAX 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL 508-822-9300
FAX 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab

WO#: 70301608
PM: BDR **Due Date: 06/25/24**
CLIENT: ALPHA

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

☑ Standard Due Date:
☐ Rush (only if pre approved) # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

☐ Same as Client info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
NJ ☐ NY
Other:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-LVI	TAL600/TAL-2007S	Br-300	Cl-4500	No3/No2-4500-PPB	TOTALNITROGEN	TDS-2540	Sample Specific Comments	Total Bottles
	EB_06132024	6/13/24	1230	AQ	JM	X	X	X	X	X	X	X	X		26
	DUP-06132024	6/13/24	1100	AQ	JM	X	X	X	X	X	X	X	X		26
	PZ-5	6/13/24	0850	AQ	PP ~~JM~~	X	X	X	X	X	X	X	X		26
	MW-5D	6/13/24	0900	AQ	JM	X	X	X	X	X	X	X	X	MS/MSD	78
	MW-12S	6/13/24	1035	AQ	PP	X	X	X	X	X	X	X	X		26
	MW-12D	6/13/24	1030	AQ	JM	X	X	X	X	X	X	X	X		26
	MW-4S	6/13/24	1145	AQ	PP	X	X	X	X	X	X	X	X		26
	MW-4D2	6/13/24	1140	AQ	JM	X	X	X	X	X	X	X	X		26
	TRIP BLANK	6/11/24		AQ	LAB	X									2

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	P	P	P	A	A	P	
Preservative	B	A	C	A	A	D	D	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	6/13/24 @ 13:45	JH Pace	6/13/24 13:45
JH Pace	6/13/24 15:27	ASE PACE LI	6/13/24 15:27

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No 01-25 (rev. 30-Sept-2013)

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab

ALPHA Job #

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

☑ Standard — Due Date:
☐ Rush (only if pre approved) — # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use ☐
☐ NYC Sewer Discharge ☐

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
Other:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500/F-4500	TPO4-4500	Alk-Co3-2320/Alk-HC03-23	SUB-SULFIDE	SUB-IODIDE	SUB-Ammonium	TCL PCBs-8082A (LVI)	TCL Pesticides/Herb	Sample Specific Comments	Total Bottles
	EB_06132024	6/13/24	1230	AQ	JM	X	X	X	X	X	X	X	X		24
	DUP_06132024	6/13/24	1100	AQ	JM	X	X	X	X	X	X	X	X		24
	PZ-5	6/13/24	0850	AQ	PP	X	X	X	X	X	X	X	X		24
	MW-5D	6/13/24	0900	AQ	JM	X	X	X	X	X	X	X	X	MS/MSD	78
	MW-12S	6/13/24	1035	AQ	PP	X	X	X	X	X	X	X	X		24
	MW-12D	6/13/24	1030	AQ	JM	X	X	X	X	X	X	X	X		24
	MW-4S	6/13/24	1145	AQ	PP	X	X	X	X	X	X	X	X		24
	MW-4D2	6/13/24	1140	AQ	JM	X	X	X	X	X	X	X	X		24

Sample Filtration

☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P	A	P	P	P	P	A	A
Preservative	A	D	A	K	A	D	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	6/13/24 13:45	FF Pace	6/13/24 13:45
FF Pace	6/13/24 15:27	ASF PACE LI	6/13/24 15:27

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

DC#_Title: Excel Form Template
Effective Date:

WO#: 70301608
PM: BDR **Due Date: 06/25/24**
CLIENT: ALPHA

Client Name: Alpha Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH74 Correction Factor: -0.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.6 Cooler Temperature Corrected(°C): 0.5 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Ye ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: WR 6/13/24

				COMMENTS:
Chain of Custody Present:	☐Yes	☐No		1.
Chain of Custody Filled Out:	☐Yes	☐No		2.
Chain of Custody Relinquished:	☐Yes	☐No		3.
Sampler Name & Signature on COC:	☐Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☐Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No		6.
Rush Turn Around Time Requested	☐Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☐Yes	☐No		8.
Correct Containers Used: -Pace Containers Used:	☐Yes ☐Yes	☐No ☐No		9.
Containers Intact:	☐Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☐Yes	☐No		12. Did not receive bottles for MW-45 (sample #7)

WR 6/13

Date and Initials of person checking preservation: WR 6/13/24

All containers needing preservation have been checked.	☐Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 213623V			WR 6/13	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	☐Yes	☐No	☐N/A WR 6/13	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☐N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☐N/A	15. Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☐N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

WO#: 70301608

70301608

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2433375

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433375

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06132024	06-13-24 12:30	Equipment Blank	Sulfide	
	DUP_06132024	06-13-24 11:00	WATER	Sulfide	
	PZ-5	06-13-24 08:50	WATER	Sulfide	
	MW-5D	06-13-24 09:00	WATER	Sulfide	MS;MSD
	MW-12S	06-13-24 10:35	WATER	Sulfide	
	MW-12D	06-13-24 10:30	WATER	Sulfide	
	MW-4S	06-13-24 11:45	WATER	Sulfide	
	MW-4D2	06-13-24 11:40	WATER	Sulfide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/18/24		6/18 1800
		6/18 0200		6/18/24 0245
		6/16/24		6/19 4:10
Form No: AL_subcoc		6/19 800		6/19/24 8:00

DC#_Title: Excel Form Template
Effective Date:

WO#: 70301608
PM: BDR **Due Date: 06/25/24**
CLIENT: ALPHA

Client Name: Alpha Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☐ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH211 Correction Factor: -0.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.2 Cooler Temperature Corrected(°C): 3.1 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Ye ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: WK 6/19/24

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: SH 6/19/24

All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

SAMPLE NO.

EB_06132024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 15:33

SAMPLE NO.

DUP_06132024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 15:36

SAMPLE NO.

PZ-5

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 15:39

SAMPLE NO.

MW-5D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 15:42

SAMPLE NO.

MW-12S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 15:48

SAMPLE NO.

MW-12D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 15:51

SAMPLE NO.

MW-4D2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 15:55

SAMPLE NO.

MW-4S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Lab Sample ID: 70301608009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/20/2024 16:05

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract : L2433375

Method Blank Matrix: Water Instrument ID: 70WET0

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1825078	C
Sulfide									<0.20	U

SAMPLE NO.

1825080LCSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

1825081DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	<0.20	<0.20	

SAMPLE NO.

1825079LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

1825080LCSD

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Preparation Method: SM22 4500-S2 F Batch: WET 81464

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
1825078	1825078BLANK	06/20/2024	200	200
1825079	1825079LCS	06/20/2024	200	200
1825080	1825080LCSD	06/20/2024	200	200
1825081	1825081DUP	06/20/2024	250	250
70301608001	EB_06132024	06/20/2024	250	250
70301608002	DUP_06132024	06/20/2024	250	250
70301608003	PZ-5	06/20/2024	250	250
70301608004	MW-5D	06/20/2024	250	250
70301608005	MW-12S	06/20/2024	250	250
70301608006	MW-12D	06/20/2024	250	250
70301608008	MW-4D2	06/20/2024	250	250
70301608009	MW-4S	06/20/2024	250	250

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70301608 Contract: L2433375

Instrument ID: 70WET0 Analysis Method: SM22 4500-S2 F

Start Date: 06/20/2024 15:25 End Date: 06/20/2024 16:05

Sample Name	Lab Sample ID	D/F	Date	Time	sulf
1825078BLANK	1825078	1	06/20/2024	15:25	X
1825079LCS	1825079	1	06/20/2024	15:26	X
1825080LCSD	1825080	1	06/20/2024	15:27	X
EB_06132024	70301608001	1	06/20/2024	15:33	X
DUP_06132024	70301608002	1	06/20/2024	15:36	X
PZ-5	70301608003	1	06/20/2024	15:39	X
MW-5D	70301608004	1	06/20/2024	15:42	X
1825081DUP	1825081	1	06/20/2024	15:45	X
MW-12S	70301608005	1	06/20/2024	15:48	X
MW-12D	70301608006	1	06/20/2024	15:51	X
MW-4D2	70301608008	1	06/20/2024	15:55	X
MW-4S	70301608009	1	06/20/2024	16:05	X

Prep Log Report

Batch Information: WET_SULFIDE_81464_06/20/24 **4500S2F | Sulfide**

Analysis Method	SM22 4500-S2 F	Instrument	70WET0	Analyzed By	JWM	1:1 HCl	182477
Starch Indicator Solution	180078	Reviewed By	SDO	Reviewed By Date	06/21/2024 10:18	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Initial Volume (mL)	Iodine 0.025N (mL)	Thio Start (mL)	Thio End (mL)	Sodium Thiosulfate 0.025N (mL)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	BLANK	**1825078**	Y	200	183291 (5)	7.3	12.3	183216 (5.00)	0.00	mg/L	06/20/2024 15:25:34	Yes	163130 ()	
4500S2F W	LCS	**1825079**	Y	200	183291 (10)	12.3	15.3	183216 (3.00)	14.00	mg/L	06/20/2024 15:26:37	Yes	163130 ()	
4500S2F W	LCSD	**1825080**	Y	200	183291 (10)	15.3	18.3	183216 (3.00)	14.00	mg/L	06/20/2024 15:27:39	Yes	163130 ()	
4500S2F W	PS	**70301607001**	Y	1000	183291 (5)	18.3	22.6	183216 (4.30)	0.28	mg/L	06/20/2024 15:30:42	Yes	163130 ()	
4500S2F W	PS	**70301608001**	Y	250	183291 (5)	22.6	27.6	183216 (5.00)	0.00	mg/L	06/20/2024 15:33:44	Yes	163130 ()	
4500S2F W	PS	**70301608002**	Y	250	183291 (5)	27.6	32.6	183216 (5.00)	0.00	mg/L	06/20/2024 15:36:48	Yes	163130 ()	
4500S2F W	PS	**70301608003**	Y	250	183291 (5)	32.6	37.6	183216 (5.00)	0.00	mg/L	06/20/2024 15:39:56	Yes	163130 ()	
4500S2F W	RQS	**70301608004**	Y	250	183291 (5)	37.6	42.6	183216 (5.00)	0.00	mg/L	06/20/2024 15:42:00	Yes	163130 ()	
4500S2F W	DUP	**1825081**	Y	250	183291 (5)	42.6	47.6	183216 (5.00)	0.00	mg/L	06/20/2024 15:45:03	Yes	163130 ()	
4500S2F W	PS	**70301608005**	Y	250	183291 (5)	1.7	6.7	183216 (5.00)	0.00	mg/L	06/20/2024 15:48:07	Yes	163130 ()	
4500S2F W	PS	**70301608006**	Y	250	183291 (5)	6.7	11.7	183216 (5.00)	0.00	mg/L	06/20/2024 15:51:10	Yes	163130 ()	
4500S2F W	PS	**70301608008**	Y	250	183291 (5)	11.7	16.7	183216 (5.00)	0.00	mg/L	06/20/2024 15:55:12	Yes	163130 ()	
4500S2F W	PS	**70301664001**	Y	1000	183291 (5)	16.7	21.5	183216 (4.80)	0.08	mg/L	06/20/2024 15:58:17	Yes	163130 ()	
4500S2F W	PS	**70301902001**	Y	250	183291 (5)	21.5	26.5	183216 (5.00)	0.00	mg/L	06/20/2024 16:02:20	Yes	163130 ()	
4500S2F W	PS	**70301608009**	Y	250	183291 (5)	26.5	31.5	183216 (5.00)	0.00	mg/L	06/20/2024 16:05:25	Yes	163130 ()	
4500S2F W	PS	**70301667001**	Y	250	183291 (5)	31.5	36.5	183216 (5.00)	0.00	mg/L	06/20/2024 16:08:27	Yes	163130 ()	
4500S2F W	PS	**70301667002**	Y	250	183291 (5)	36.5	41.5	183216 (5.00)	0.00	mg/L	06/20/2024 16:11:32	Yes	163130 ()	
4500S2F W	PS	**70301667003**	Y	250	183291 (5)	41.5	46.5	183216 (5.00)	0.00	mg/L	06/20/2024 16:14:45	Yes	163130 ()	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	BLANK	**1825078**	
4500S2F W	LCS	**1825079**	182594 (1)
4500S2F W	LCSD	**1825080**	182594 (1)
4500S2F W	PS	**70301607001**	
4500S2F W	PS	**70301608001**	
4500S2F W	PS	**70301608002**	
4500S2F W	PS	**70301608003**	
4500S2F W	RQS	**70301608004**	
4500S2F W	DUP	**1825081**	
4500S2F W	PS	**70301608005**	
4500S2F W	PS	**70301608006**	
4500S2F W	PS	**70301608008**	
4500S2F W	PS	**70301664001**	
4500S2F W	PS	**70301902001**	
4500S2F W	PS	**70301608009**	
4500S2F W	PS	**70301667001**	
4500S2F W	PS	**70301667002**	
4500S2F W	PS	**70301667003**	

Standard Notes:

182594: Wet Sulfide LCS/ Second Source 5mL

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50376286

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

July 01, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2433375
Pace Project No.: 50376286

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2433375
Pace Project No.: 50376286

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2433375
Pace Project No.: 50376286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50376286001	**EB_06132024**	Water	06/13/24 12:30	06/19/24 10:50
50376286002	**DUP_06132024**	Water	06/13/24 11:00	06/19/24 10:50
50376286003	**PZ-5**	Water	06/13/24 08:50	06/19/24 10:50
50376286004	**MW-5D**	Water	06/13/24 09:00	06/19/24 10:50
50376286005	**MW-12S**	Water	06/13/24 10:35	06/19/24 10:50
50376286006	**MW-12D**	Water	06/13/24 10:30	06/19/24 10:50
50376286007	**MW-4S**	Water	06/13/24 11:45	06/19/24 10:50
50376286008	**MW-4D2**	Water	06/13/24 11:40	06/19/24 10:50

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SAMPLE ANALYTE COUNT

Project: L2433375
Pace Project No.: 50376286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50376286001	**EB_06132024**	EPA 9056	ADM	1
50376286002	**DUP_06132024**	EPA 9056	ADM	1
50376286003	**PZ-5**	EPA 9056	ADM	1
50376286004	**MW-5D**	EPA 9056	ADM	1
50376286005	**MW-12S**	EPA 9056	ADM	1
50376286006	**MW-12D**	EPA 9056	ADM	1
50376286007	**MW-4S**	EPA 9056	ADM	1
50376286008	**MW-4D2**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: EB_06132024 **Lab ID: 50376286001** Collected: 06/13/24 12:30 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/28/24 17:39		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: DUP_06132024 **Lab ID: 50376286002** Collected: 06/13/24 11:00 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/28/24 18:01		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: PZ-5 **Lab ID: 50376286003** Collected: 06/13/24 08:50 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 04:02		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-5D **Lab ID: 50376286004** Collected: 06/13/24 09:00 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 03:40		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-12S **Lab ID: 50376286005** Collected: 06/13/24 10:35 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 03:19		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-12D **Lab ID: 50376286006** Collected: 06/13/24 10:30 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 02:13		

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(317)228-3100

ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-4S **Lab ID: 50376286007** Collected: 06/13/24 11:45 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 01:51		

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ANALYTICAL RESULTS

Project: L2433375
Pace Project No.: 50376286

Sample: MW-4D2 **Lab ID: 50376286008** Collected: 06/13/24 11:40 Received: 06/19/24 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/23/24 01:29		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L2433375
Pace Project No.: 50376286

QC Batch: 797018
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50376286001, 50376286002, 50376286003, 50376286004, 50376286005, 50376286006, 50376286007, 50376286008

METHOD BLANK: 3646735 Matrix: Water
Associated Lab Samples: 50376286001, 50376286002, 50376286003, 50376286004, 50376286005, 50376286006, 50376286007, 50376286008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	06/28/24 16:56	

LABORATORY CONTROL SAMPLE: 3646736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3646737 3646738

Parameter	Units	50376286004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.8	4.7	95	94	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2433375
Pace Project No.: 50376286

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433375
Pace Project No.: 50376286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50376286001	**EB_06132024**	EPA 9056	797018		
50376286002	**DUP_06132024**	EPA 9056	797018		
50376286003	**PZ-5**	EPA 9056	797018		
50376286004	**MW-5D**	EPA 9056	797018		
50376286005	**MW-12S**	EPA 9056	797018		
50376286006	**MW-12D**	EPA 9056	797018		
50376286007	**MW-4S**	EPA 9056	797018		
50376286008	**MW-4D2**	EPA 9056	797018		

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ALPHA ANALYTICAL
World Class Chemistry

50376286

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2433375

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433375

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com Report to MDL/needs L4 and EDD
265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06132024	06-13-24 12:30	Equipment Blank	Iodide	
	DUP_06132024	06-13-24 11:00	WATER	Iodide	
	PZ-5	06-13-24 08:50	WATER	Iodide	
	MW-5D	06-13-24 09:00	WATER	Iodide	MS;MSD
	MW-12S	06-13-24 10:35	WATER	Iodide	
	MW-12D	06-13-24 10:30	WATER	Iodide	
	MW-4S	06-13-24 11:45	WATER	Iodide	
	MW-4D2	06-13-24 11:40	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/18/24	UPS	
	UPS	6/19/24 10:50		6/19/24 10:50
Form No: AL_subcoc				

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/19/24 19:09 JG

1. **Courier:** ☐ FED EX ☑ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No
   (If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I
4. **Cooler Temperature(s):** 0.6/0.6 | | | |
   (Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**

5. **Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** ☐ Yes ☑ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		—	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		—				—
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			—
Custody Signatures Present?	—		Residual Chlorine Check (Total/Amenable/Free Cyanide)			—
Containers Intact?:	—		Headspace Wisconsin Sulfide?			—
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent —
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		—	
			Trip Blank Custody Seals?:			—

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC									OTHER					Matrix
			MeOH (only)																									
			SBS																									
			DI																									
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			
1																		2										WT
2																		2										
3																		2										
4																		6										
5																		2										
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

SAMPLE NO.

EB_06132024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Lab Sample ID: 50376286001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2024 17:39

SAMPLE NO.

DUP_06132024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Lab Sample ID: 50376286002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2024 18:01

SAMPLE NO.

PZ-5

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375
Lab Sample ID: 50376286003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/23/2024 04:02

SAMPLE NO.

MW-5D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Lab Sample ID: 50376286004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/23/2024 03:40

SAMPLE NO.

MW-12S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Lab Sample ID: 50376286005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/23/2024 03:19

SAMPLE NO.

MW-12D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Lab Sample ID: 50376286006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/23/2024 02:13

SAMPLE NO.

MW-4S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Lab Sample ID: 50376286007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/23/2024 01:51

SAMPLE NO.

MW-4D2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Lab Sample ID: 50376286008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/23/2024 01:29

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Initial Calibration Verification Source: 371401

Continuing Calibration Verification Source: 385241

Concentration Units: mg/L Instrument ID: 50IC07

	Initial Calibration Verification				Continuing Calibration Verification						
	06/21/2024 19:00				06/23/2024 00:02			06/23/2024 04:24			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	4.7	94.1	90-110	1.0	1.0	101.9	1.0	1.0	101.6	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Initial Calibration Verification Source: 371401

Continuing Calibration Verification Source: 386554

Concentration Units: mg/L Instrument ID: 50IC07

	Initial Calibration Verification				Continuing Calibration Verification						
	06/28/2024 06:10				06/28/2024 13:58			06/28/2024 20:34			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	5.2	104.1	90-110	1.0	1.0	103.6	1.0	0.96	95.9	90-110

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract : L2433375

Method Blank Matrix: Instrument ID: 50IC07

Method Blank Concentration Units:

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)					
	06/21/2024 19:21	C	06/23/2024 00:24	C	06/23/2024 04:46	C		C
Iodide	0.091	U	0.091	U	0.091	U		

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract : L2433375

Method Blank Matrix: Water Instrument ID: 50IC07

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	06/28/2024 06:32	C	06/28/2024 14:20	C	06/28/2024 20:56	C		C	3646735	C
Iodide	0.091	U	0.091	U	0.091	U			ND	U

SAMPLE NO.

3646737MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Matrix: Water Basis: Wet Parent Sample ID: MW-5D

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.8	ND	5.0	95

SAMPLE NO.

3646738MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Matrix: Water Basis: Wet Parent Sample ID: MW-5D

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	94

SAMPLE NO.

3646738MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	4.8	4.7	1

SAMPLE NO.

3646736LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	4.9	98	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Preparation Method: EPA 9056 Batch: GCSV 56558

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3646735	3646735BLANK	06/28/2024	10	10
3646736	3646736LCS	06/28/2024	10	10
3646737	3646737MS	06/23/2024	10	10
3646738	3646738MSD	06/23/2024	10	10
50376286001	EB_06132024	06/28/2024	10	10
50376286002	DUP_06132024	06/28/2024	10	10
50376286003	PZ-5	06/23/2024	10	10
50376286004	MW-5D	06/23/2024	10	10
50376286005	MW-12S	06/23/2024	10	10
50376286006	MW-12D	06/23/2024	10	10
50376286007	MW-4S	06/23/2024	10	10
50376286008	MW-4D2	06/23/2024	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Instrument ID: 50IC07 Analysis Method: EPA 9056

Start Date: 06/21/2024 16:49 End Date: 06/23/2024 04:46

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
25201351CAL0	25201351CAL0	1	06/21/2024	16:49	X
25201352CAL1	25201352CAL1	1	06/21/2024	17:10	X
25201353CAL2	25201353CAL2	1	06/21/2024	17:32	X
25201354CAL3	25201354CAL3	1	06/21/2024	17:54	X
25201355CAL4	25201355CAL4	1	06/21/2024	18:16	X
25201356CAL5	25201356CAL5	1	06/21/2024	18:38	X
25201357ICV	25201357ICV	1	06/21/2024	19:00	X
25201358ICB	25201358ICB	1	06/21/2024	19:21	X
25209571CCV	25209571CCV	1	06/23/2024	00:02	X
25209572CCB	25209572CCB	1	06/23/2024	00:24	X
MW-4D2	50376286008	1	06/23/2024	01:29	X
MW-4S	50376286007	1	06/23/2024	01:51	X
MW-12D	50376286006	1	06/23/2024	02:13	X
3646737MS	3646737	1	06/23/2024	02:35	X
3646738MSD	3646738	1	06/23/2024	02:57	X
MW-12S	50376286005	1	06/23/2024	03:19	X
MW-5D	50376286004	1	06/23/2024	03:40	X
PZ-5	50376286003	1	06/23/2024	04:02	X
25209573CCV	25209573CCV	1	06/23/2024	04:24	X
25209574CCB	25209574CCB	1	06/23/2024	04:46	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376286 Contract: L2433375

Instrument ID: 50IC07 Analysis Method: EPA 9056

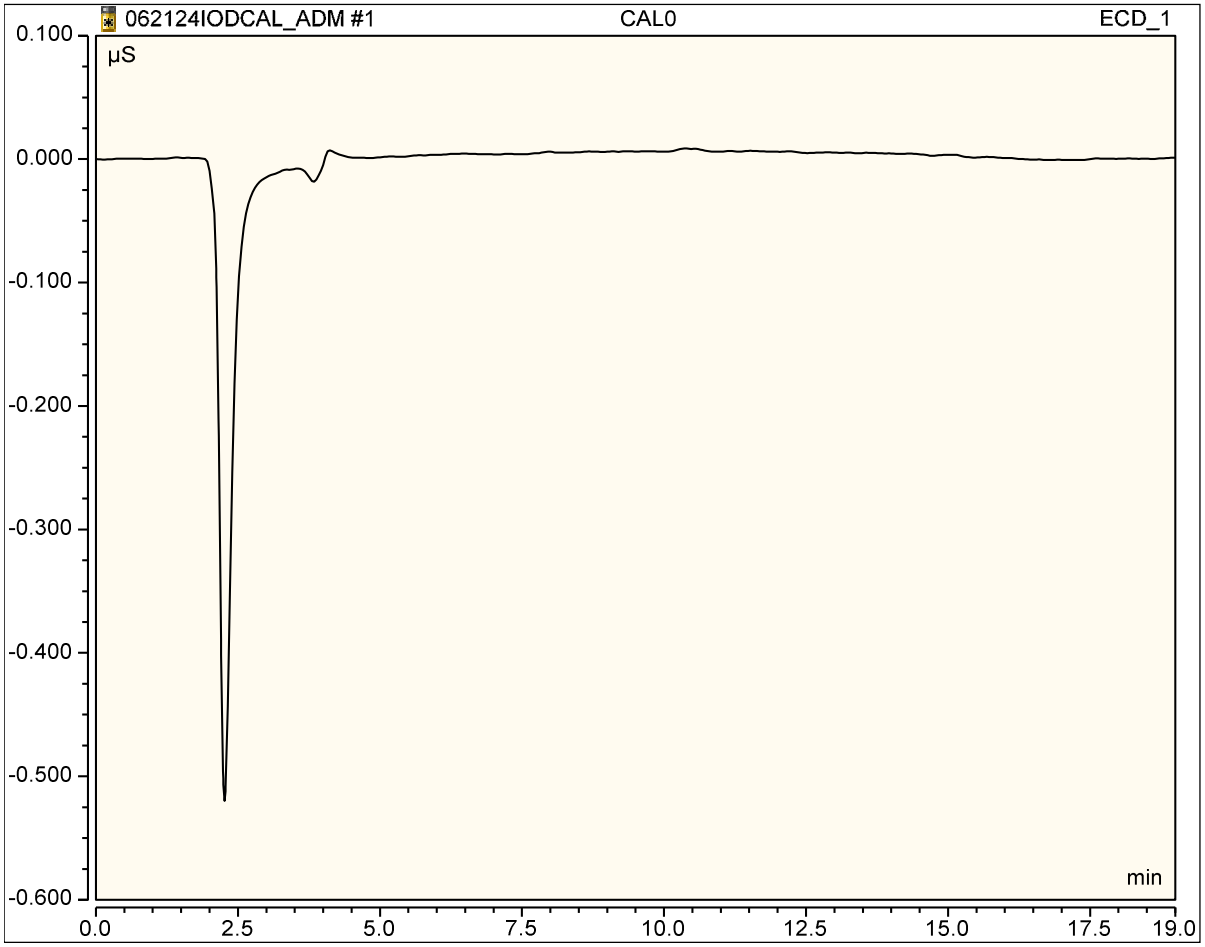
Start Date: 06/28/2024 04:00 End Date: 06/28/2024 20:56

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
25235788CAL0	25235788CAL0	1	06/28/2024	04:00	X
25235789CAL1	25235789CAL1	1	06/28/2024	04:21	X
25235790CAL2	25235790CAL2	1	06/28/2024	04:43	X
25235791CAL3	25235791CAL3	1	06/28/2024	05:05	X
25235792CAL4	25235792CAL4	1	06/28/2024	05:27	X
25235793CAL5	25235793CAL5	1	06/28/2024	05:48	X
25235794ICV	25235794ICV	1	06/28/2024	06:10	X
25235795ICB	25235795ICB	1	06/28/2024	06:32	X
25241312CCV	25241312CCV	1	06/28/2024	13:58	X
25241313CCB	25241313CCB	1	06/28/2024	14:20	X
3646735BLANK	3646735	1	06/28/2024	16:56	X
3646736LCS	3646736	1	06/28/2024	17:17	X
EB_06132024	50376286001	1	06/28/2024	17:39	X
DUP_06132024	50376286002	1	06/28/2024	18:01	X
25241314CCV	25241314CCV	1	06/28/2024	20:34	X
25241315CCB	25241315CCB	1	06/28/2024	20:56	X

CAL0
371408

Sample Name:	**CAL0**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 16:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

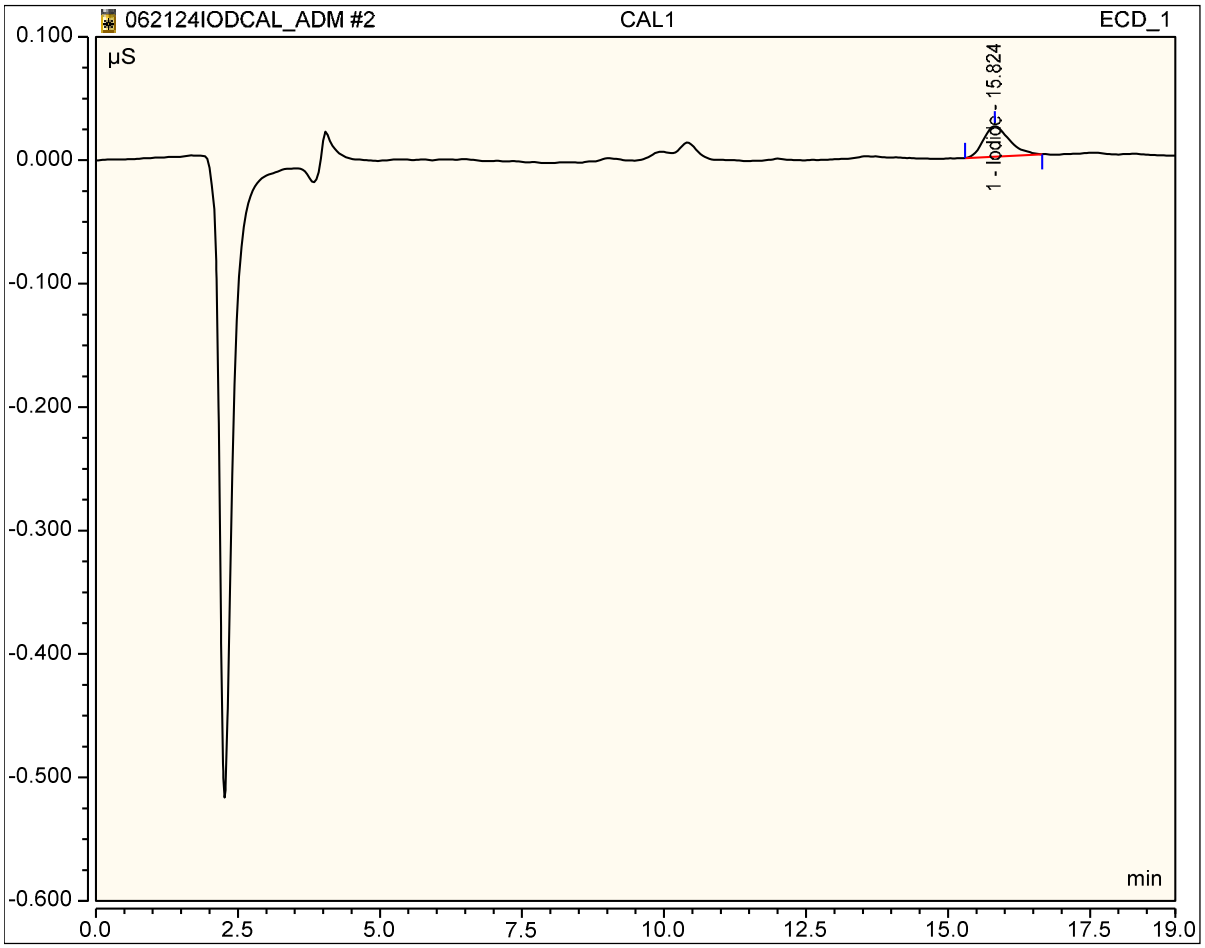
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
371407

Sample Name:	**CAL1**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:10**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

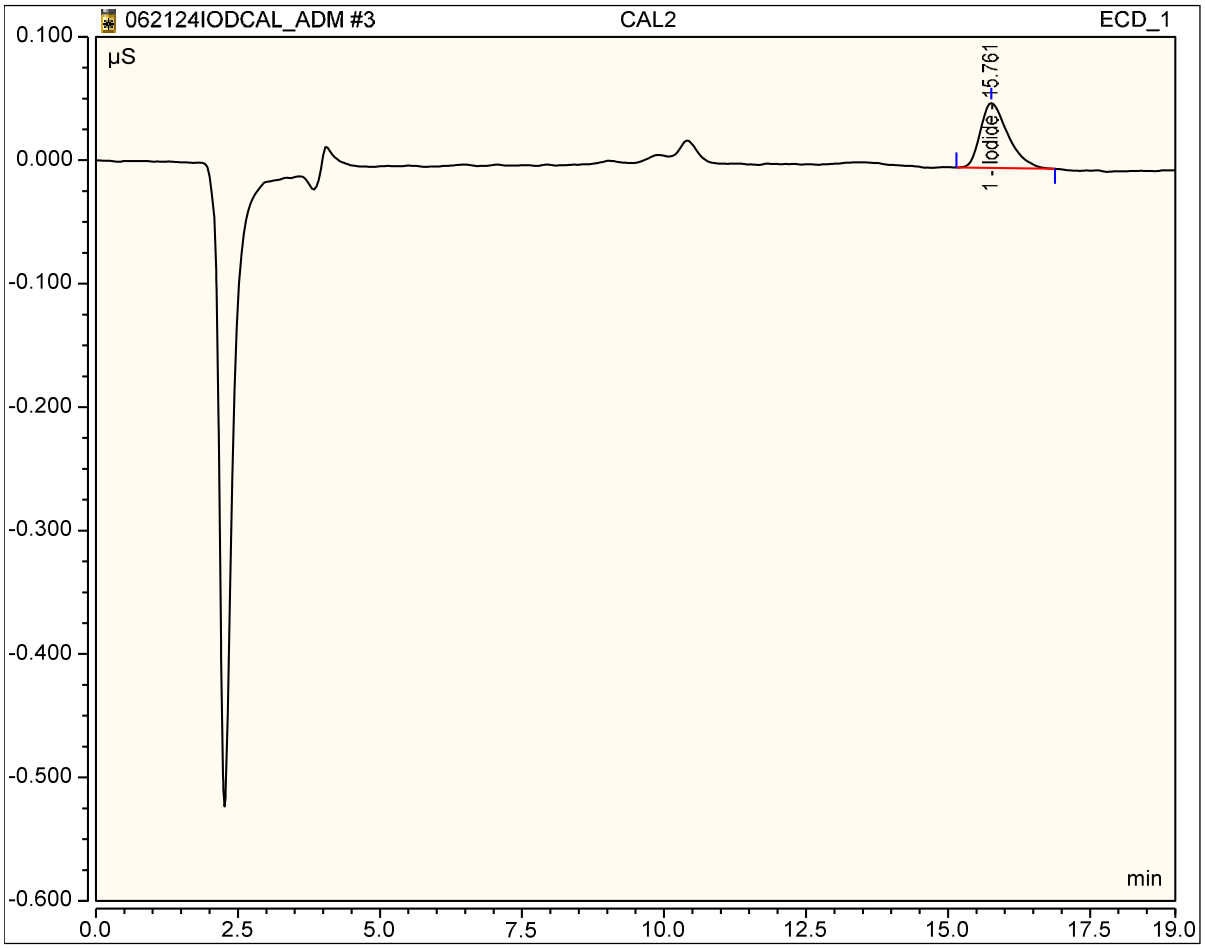
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.82	**Iodide**	0.4908	0.013	0.025	BMB



CAL2
371406

Sample Name:	**CAL2**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

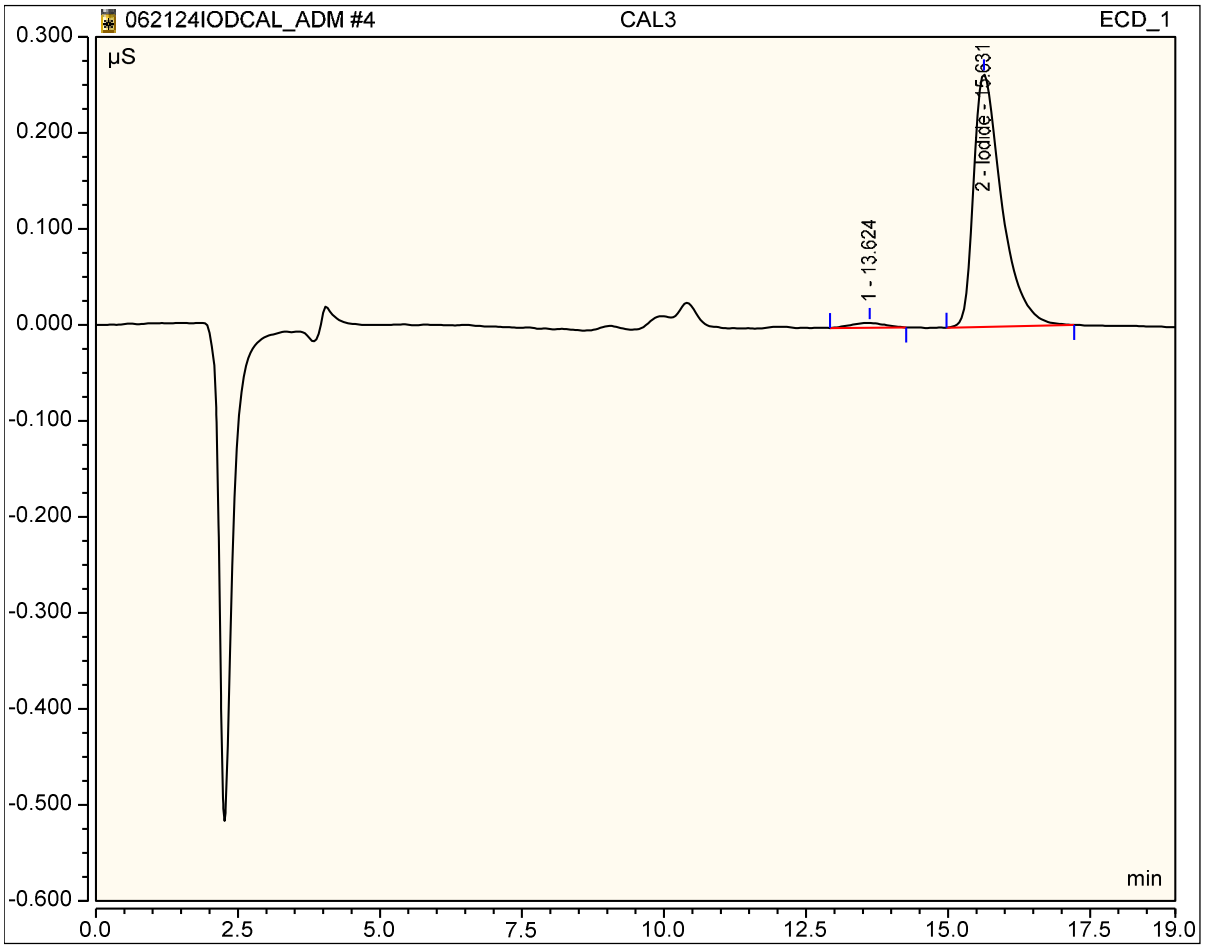
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0311	0.030	0.053	BMB



CAL3
371405

Sample Name:	**CAL3**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:54**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

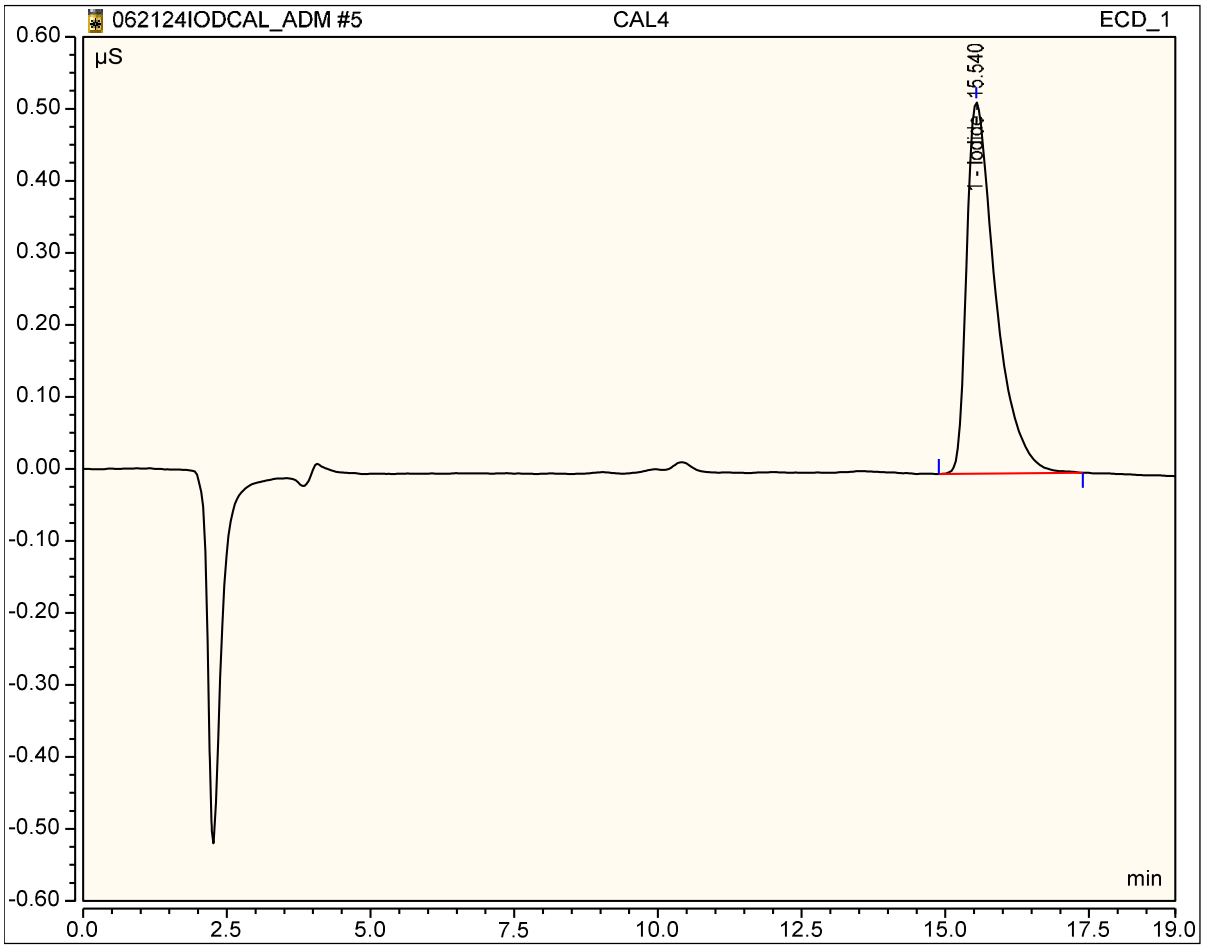
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.63	**Iodide**	4.9874	0.151	0.263	BMB



CAL4
371404

Sample Name:	**CAL4**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 18:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

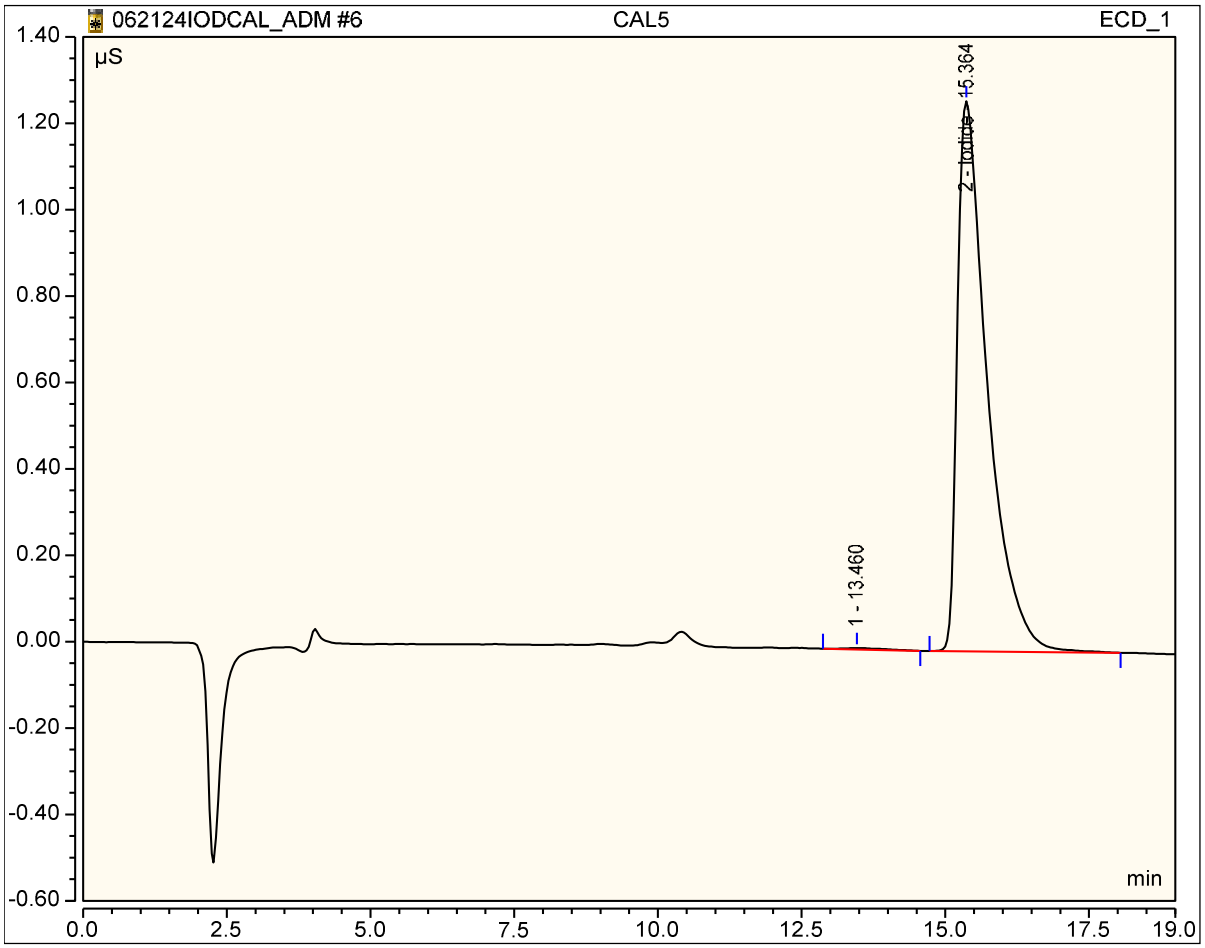
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.54	**Iodide**	9.8380	0.301	0.516	BMB



CAL5
371403

Sample Name:	**CAL5**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 18:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

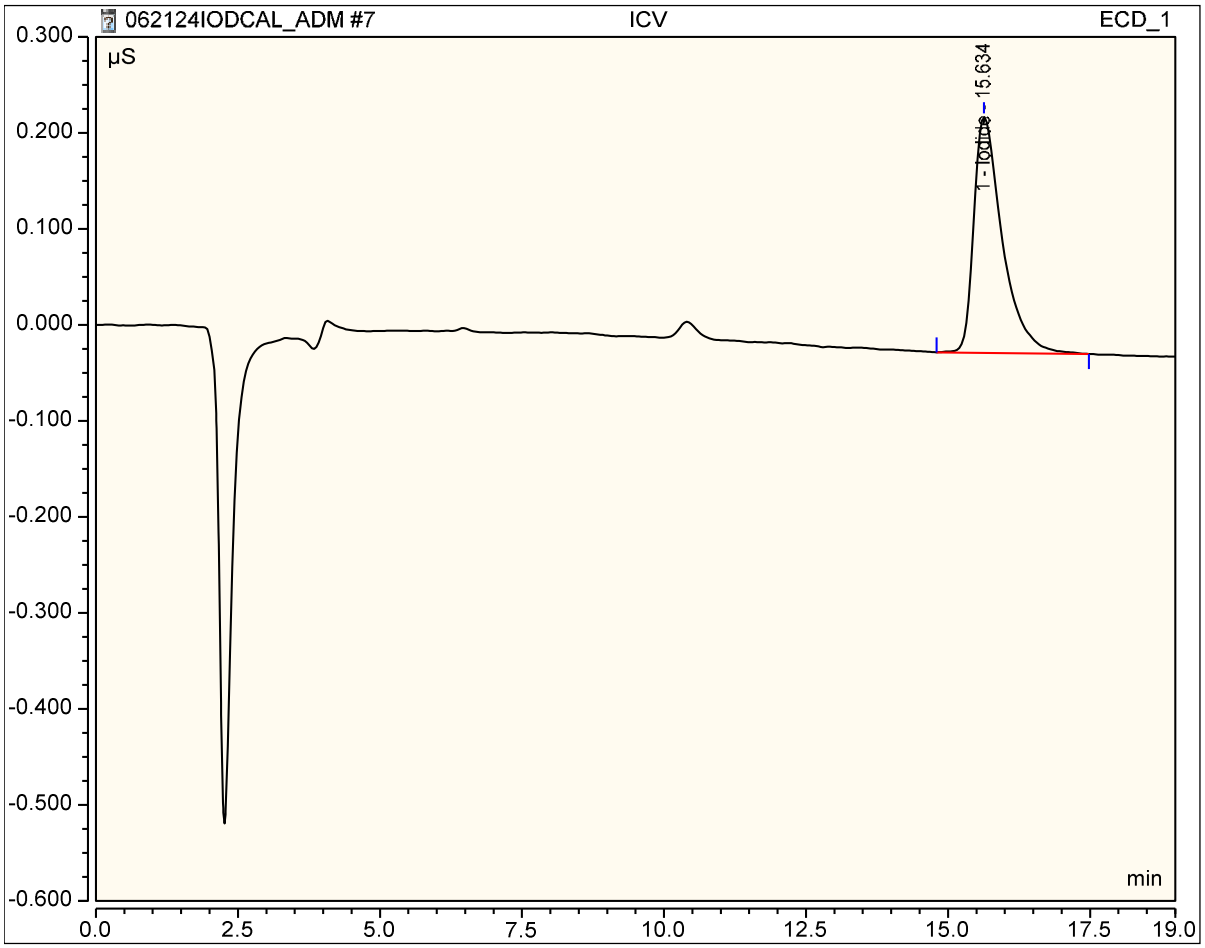
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.36	**Iodide**	25.1528	0.772	1.273	BMB



ICV
371401

Sample Name:	**ICV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

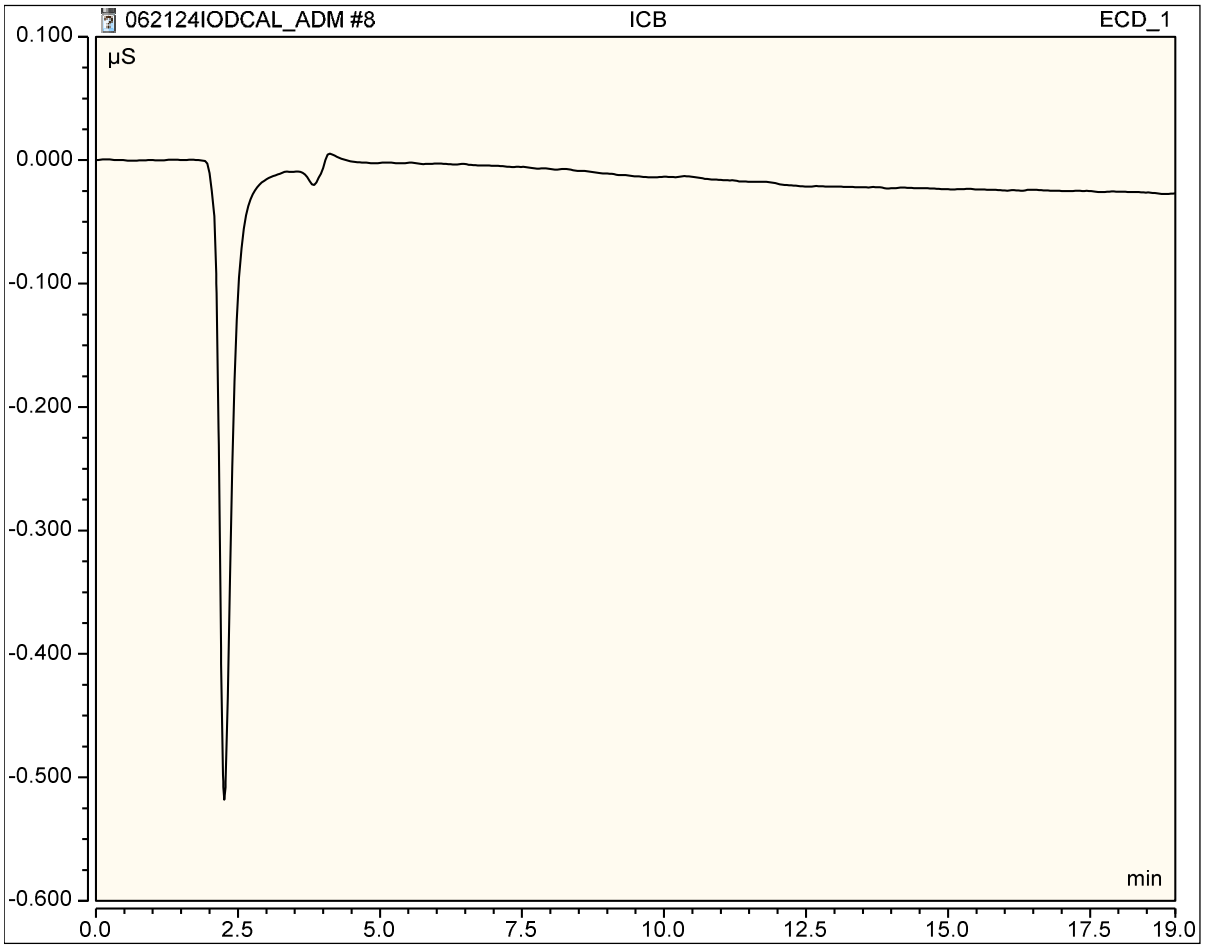
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.7040	0.143	0.246	BMB



ICB
376211

Sample Name:	**ICB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

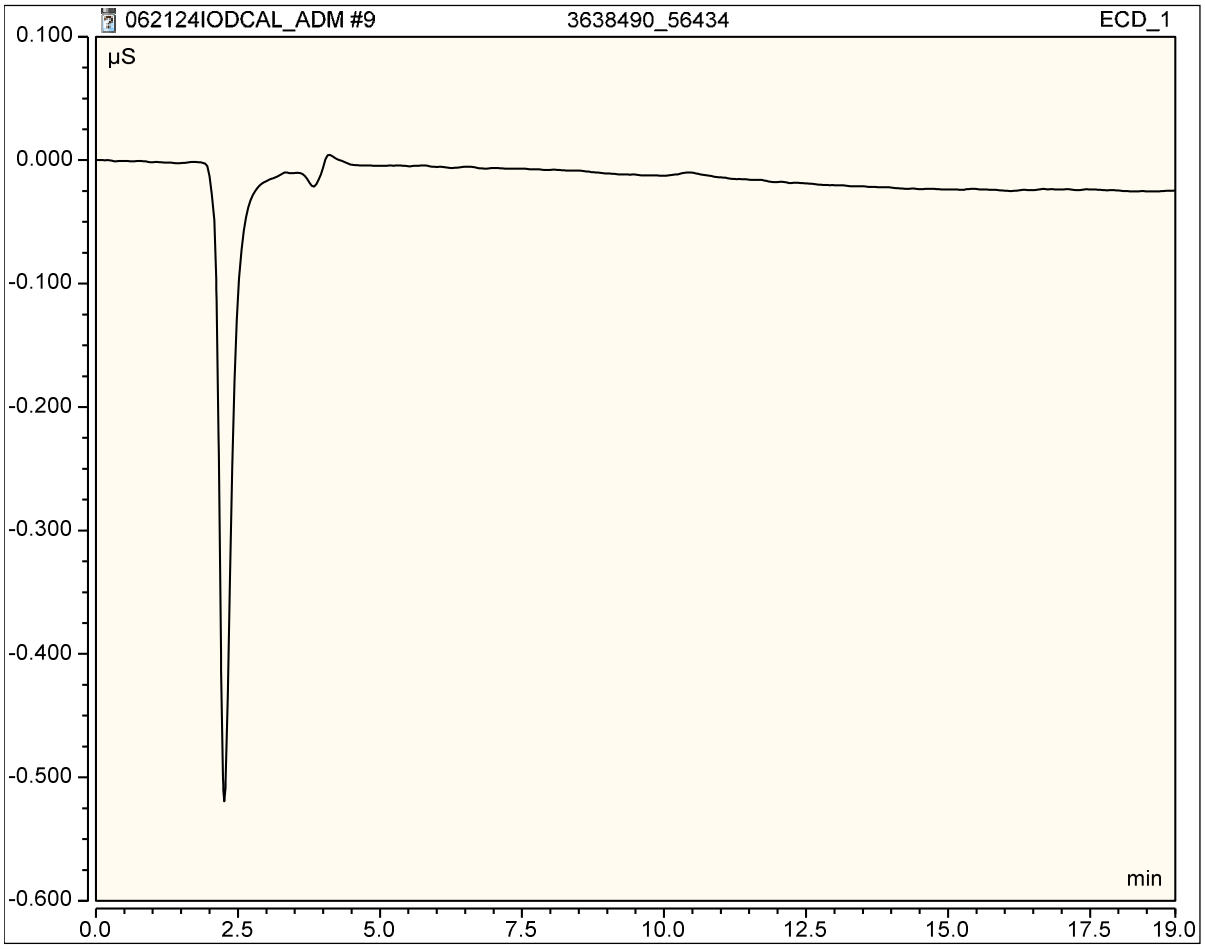
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638490_56434
340111

Sample Name:	**3638490_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

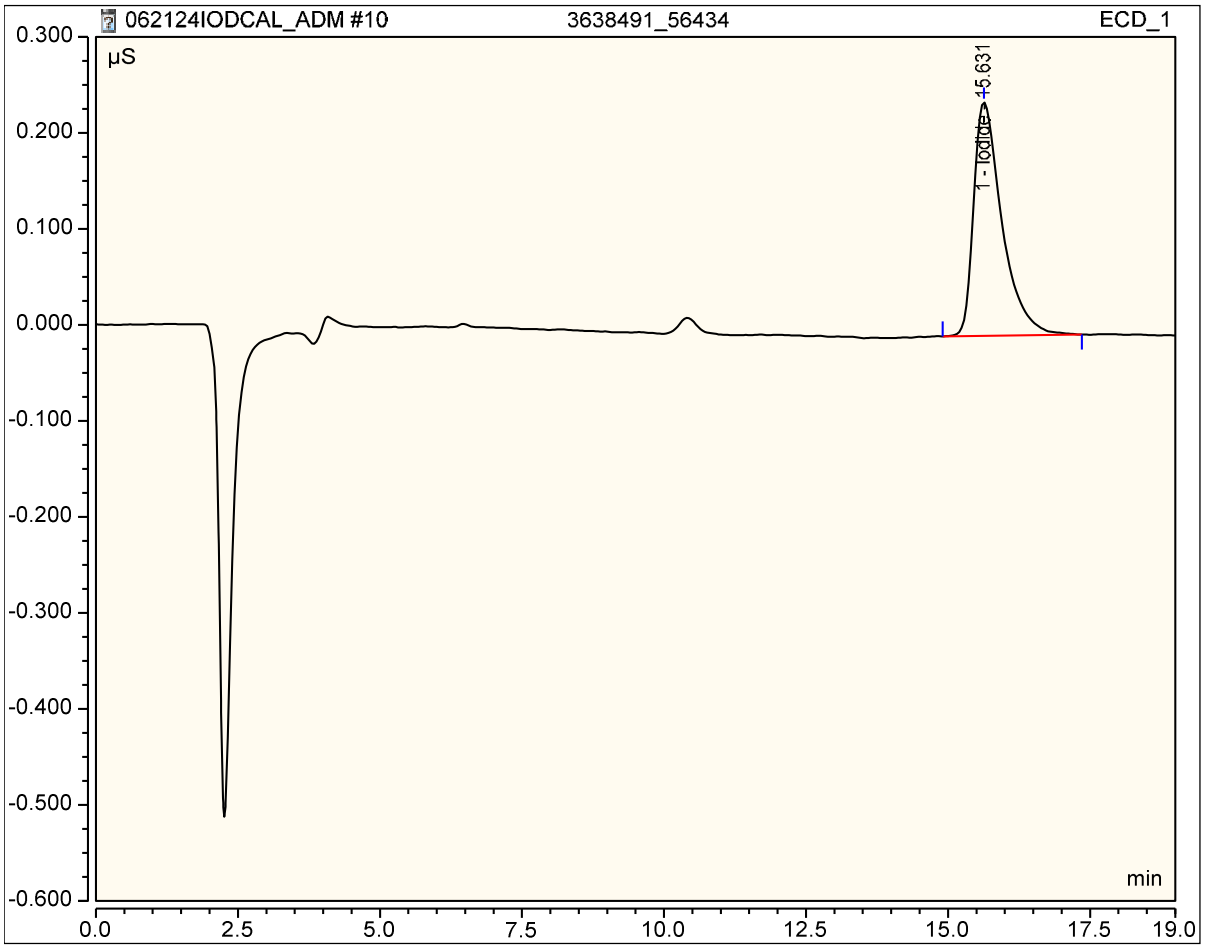
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638491_56434
377680

Sample Name:	**3638491_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*10*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:05**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

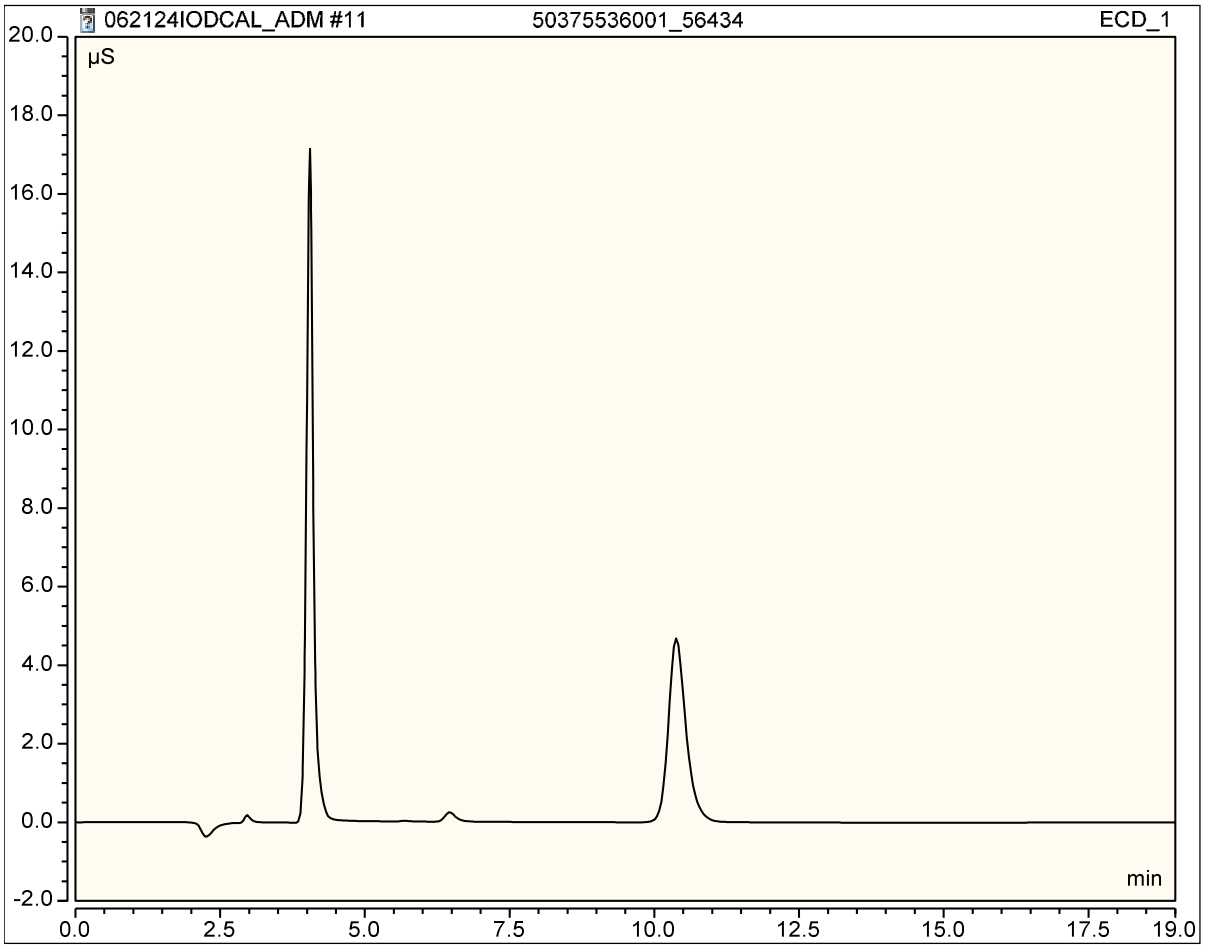
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.6277	0.140	0.243	BMB



50375536001_56434

Sample Name:	**50375536001_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:27**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

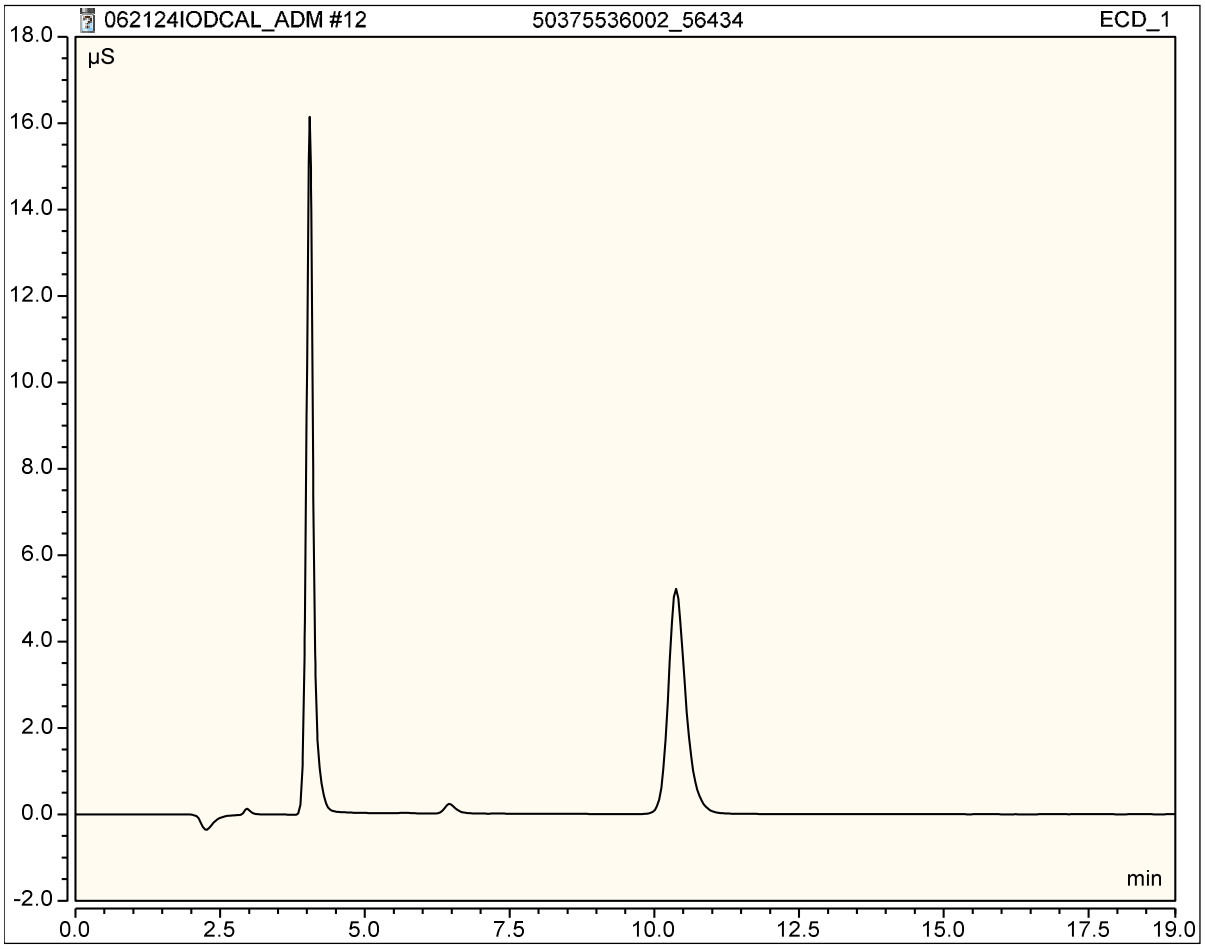
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536002_56434

Sample Name:	**50375536002_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

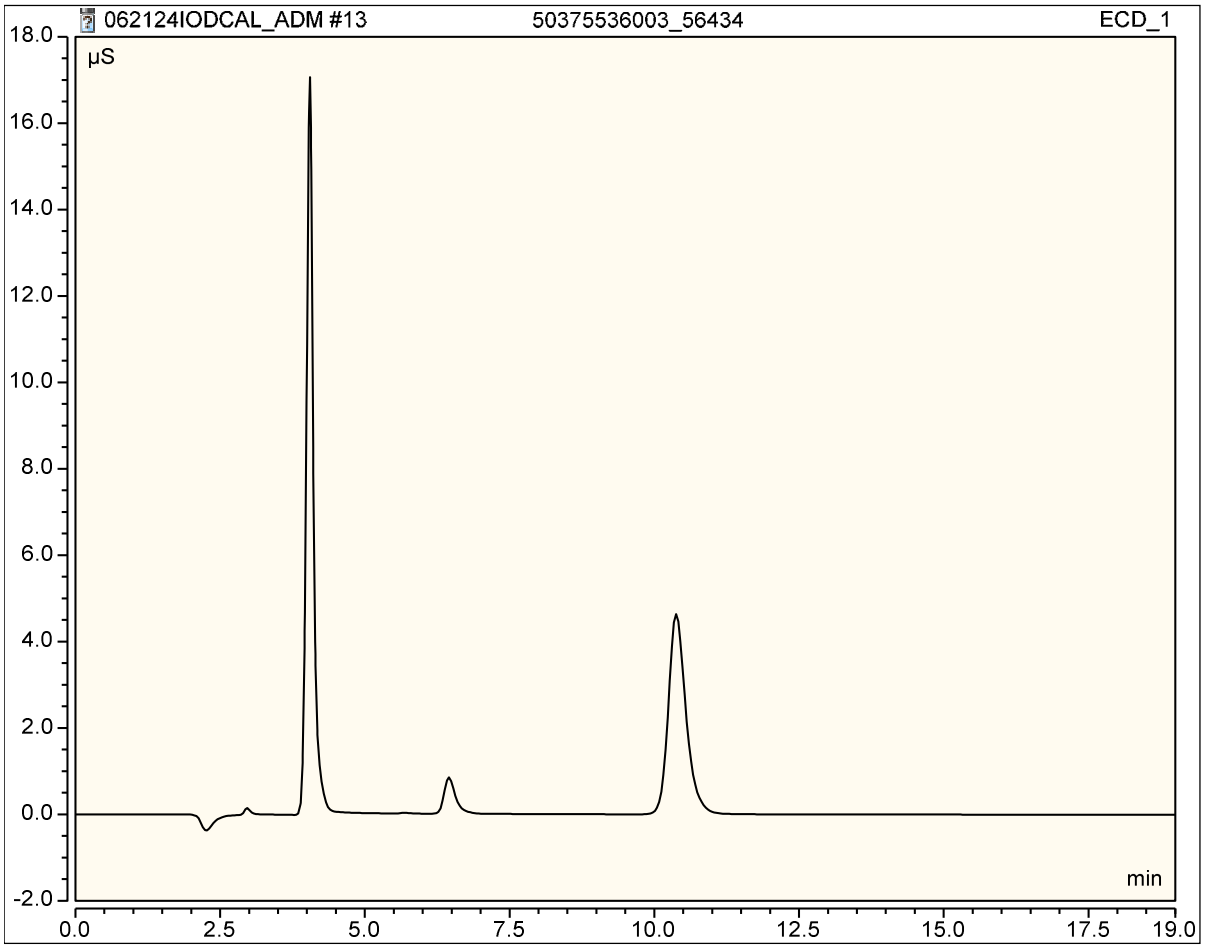
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536003_56434

Sample Name:	**50375536003_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*13*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:11**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

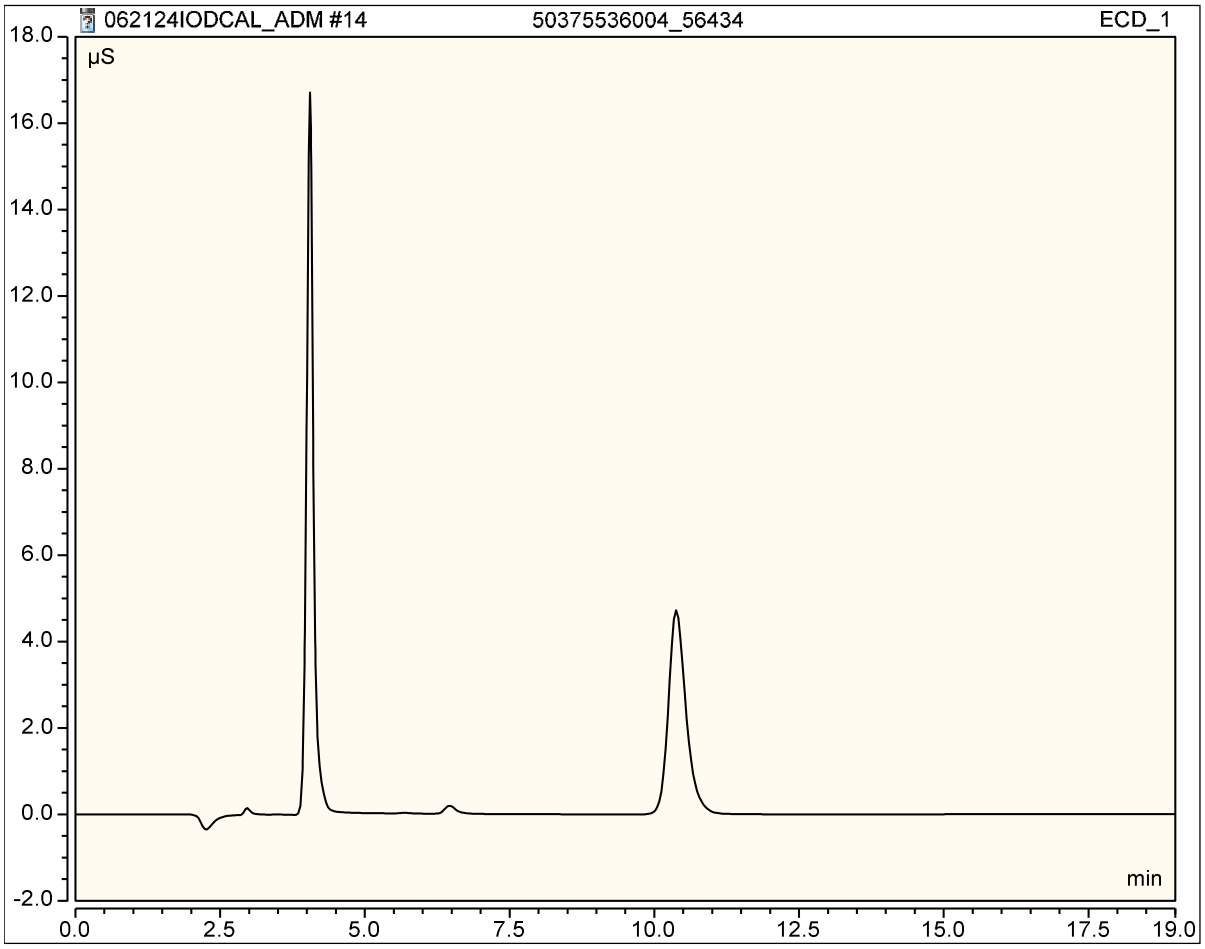
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536004_56434

Sample Name:	**50375536004_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*14*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:33**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

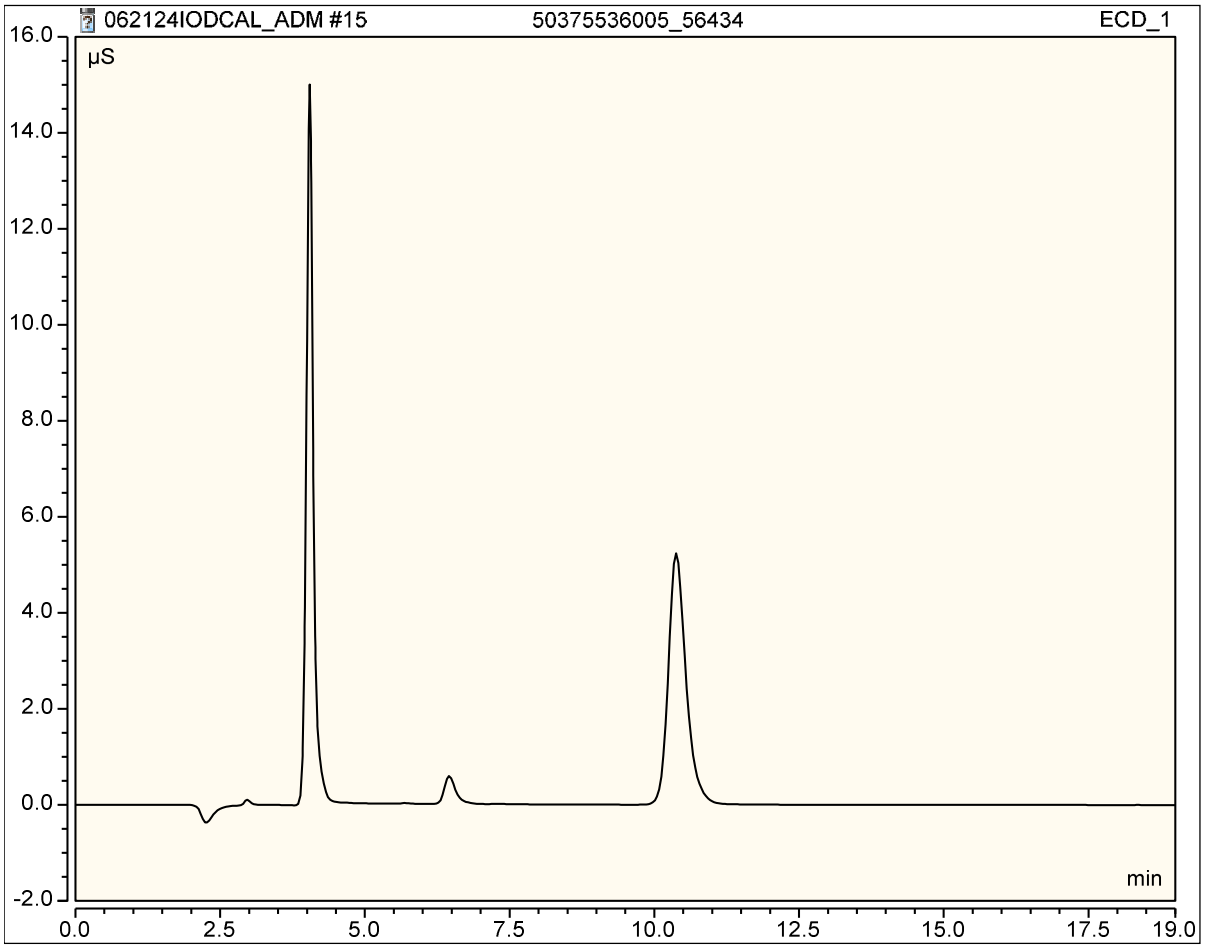
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536005_56434

Sample Name:	**50375536005_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

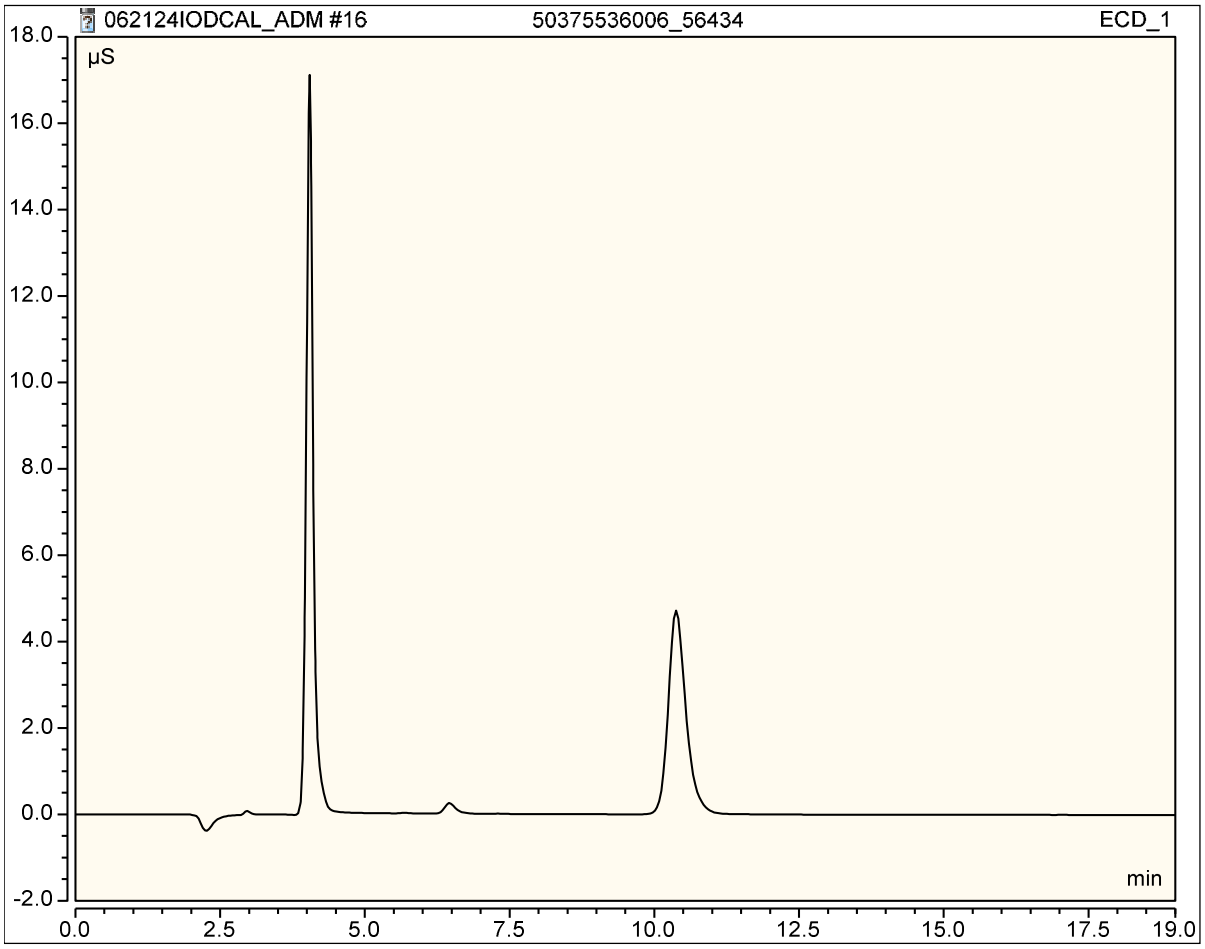
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536006_56434

Sample Name:	**50375536006_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*16*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 22:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

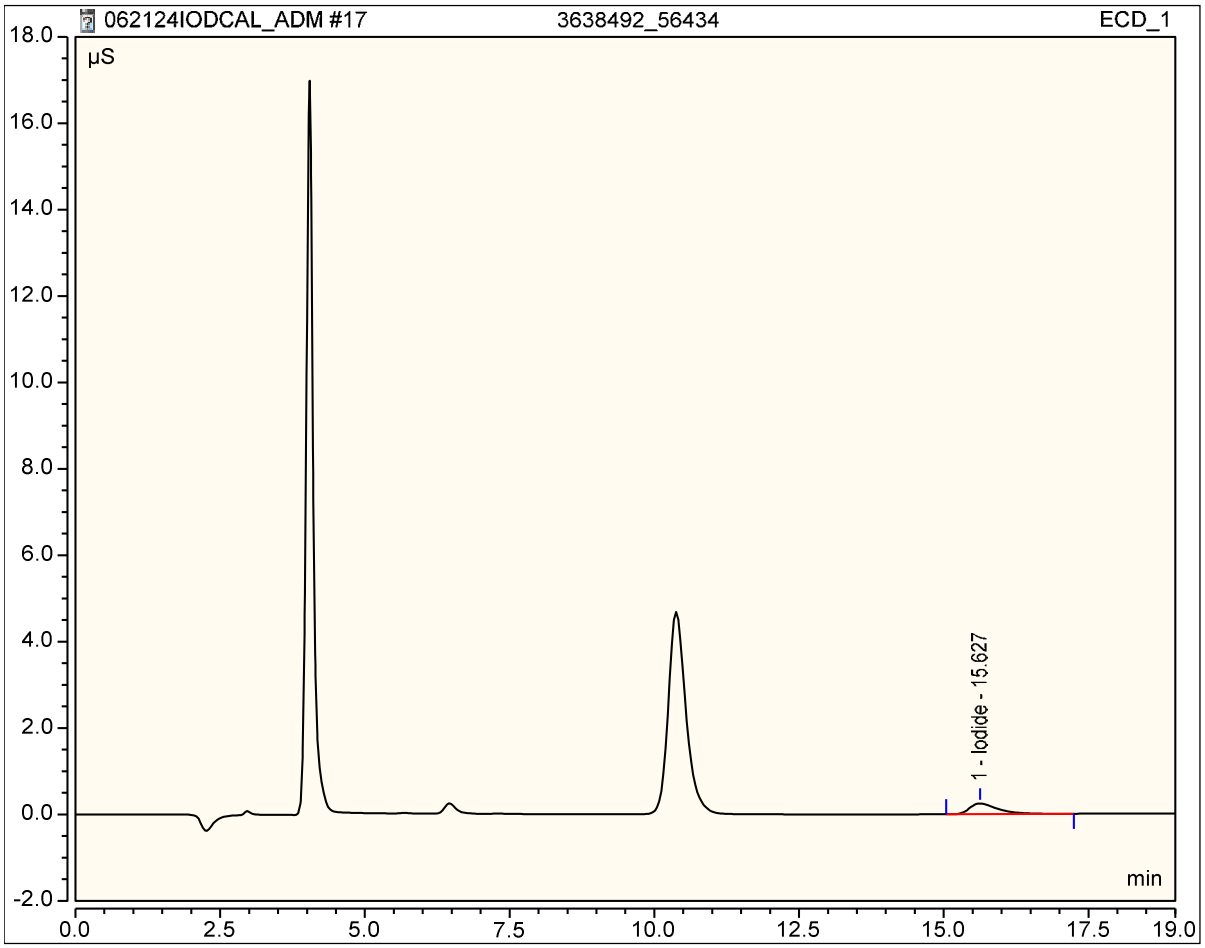
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638492_56434
377680

Sample Name:	**3638492_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*17*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 22:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

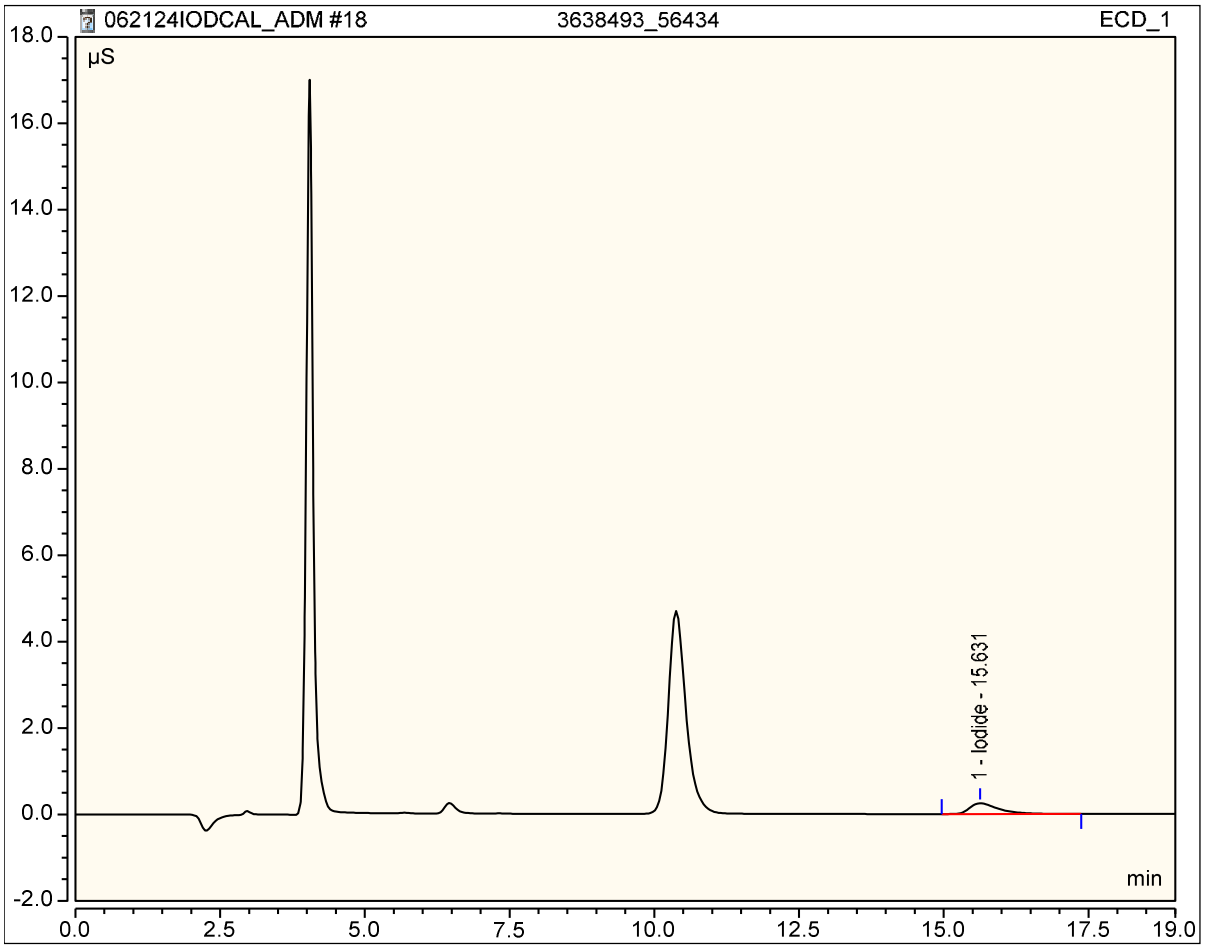
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.6042	0.140	0.247	BMB



3638493_56434
377680

Sample Name:	**3638493_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*18*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

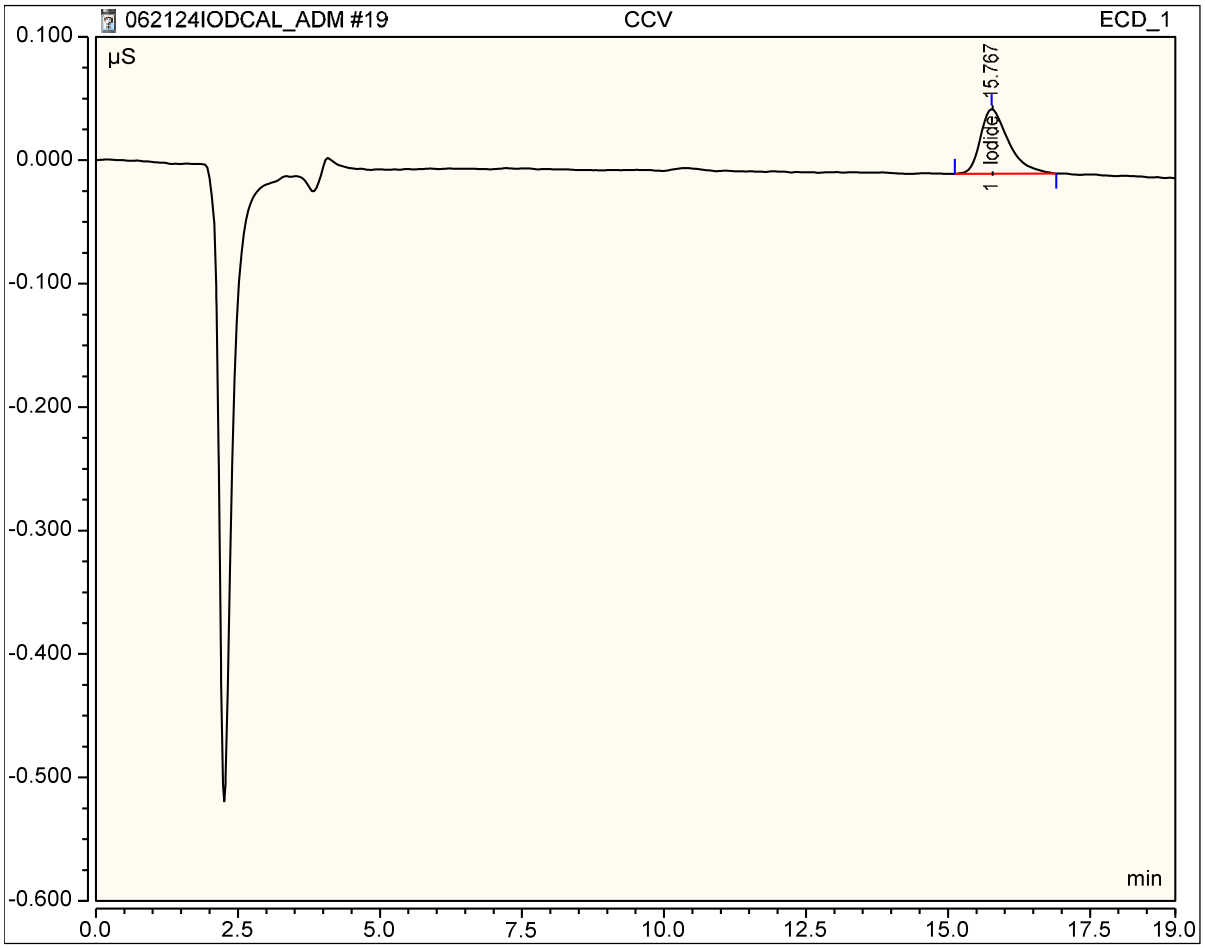
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.7797	0.145	0.250	BMB



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*19*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:22**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

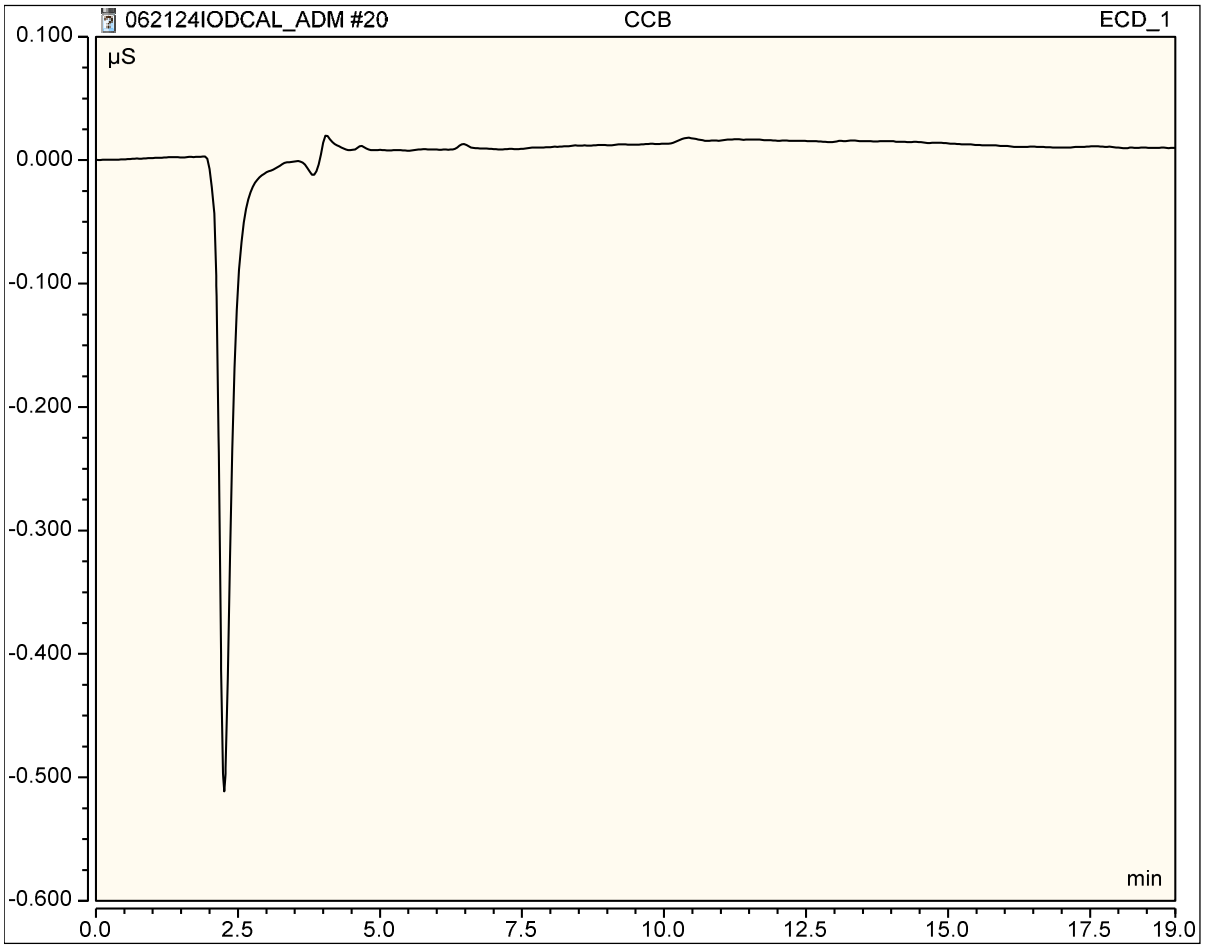
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.77	**Iodide**	1.0473	0.030	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

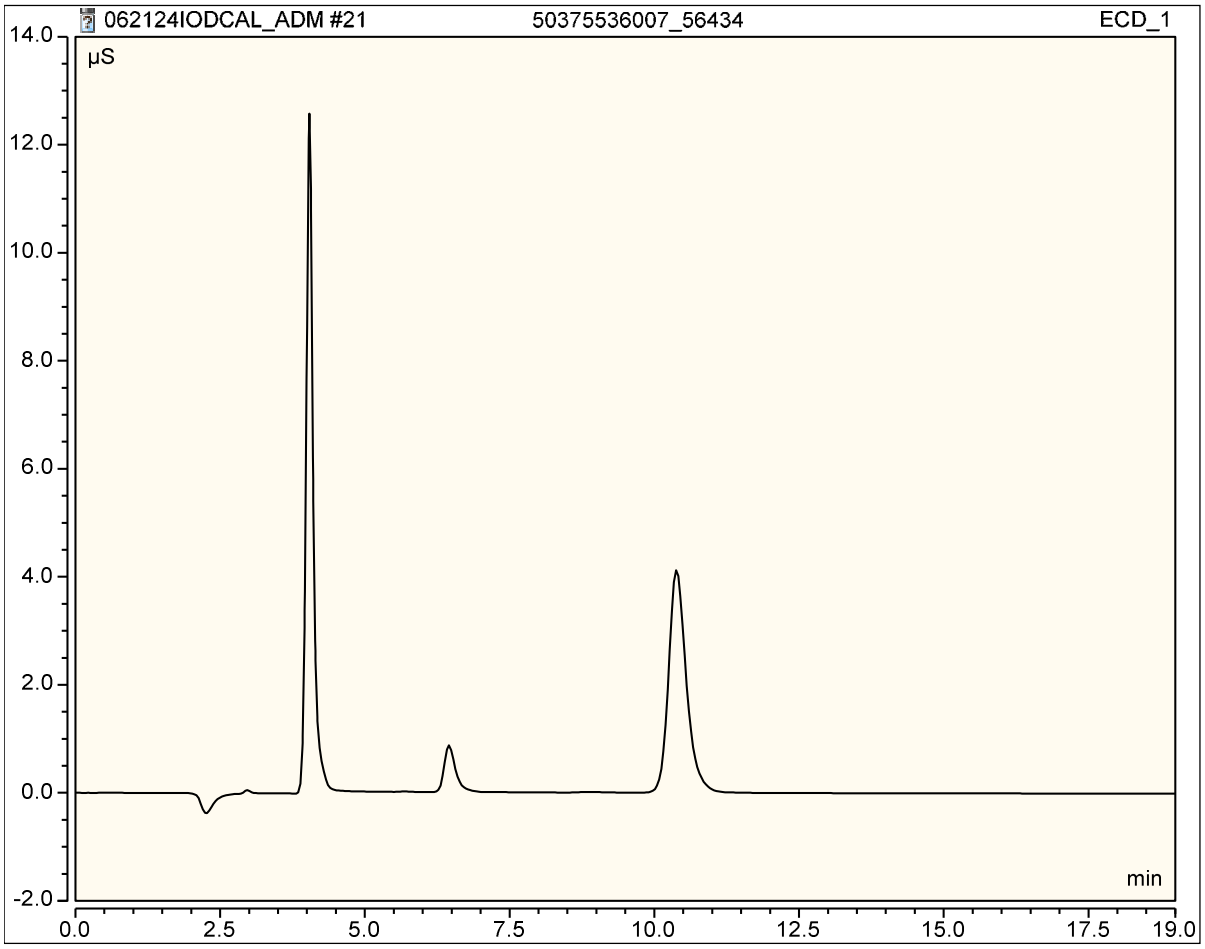
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536007_56434

Sample Name:	**50375536007_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

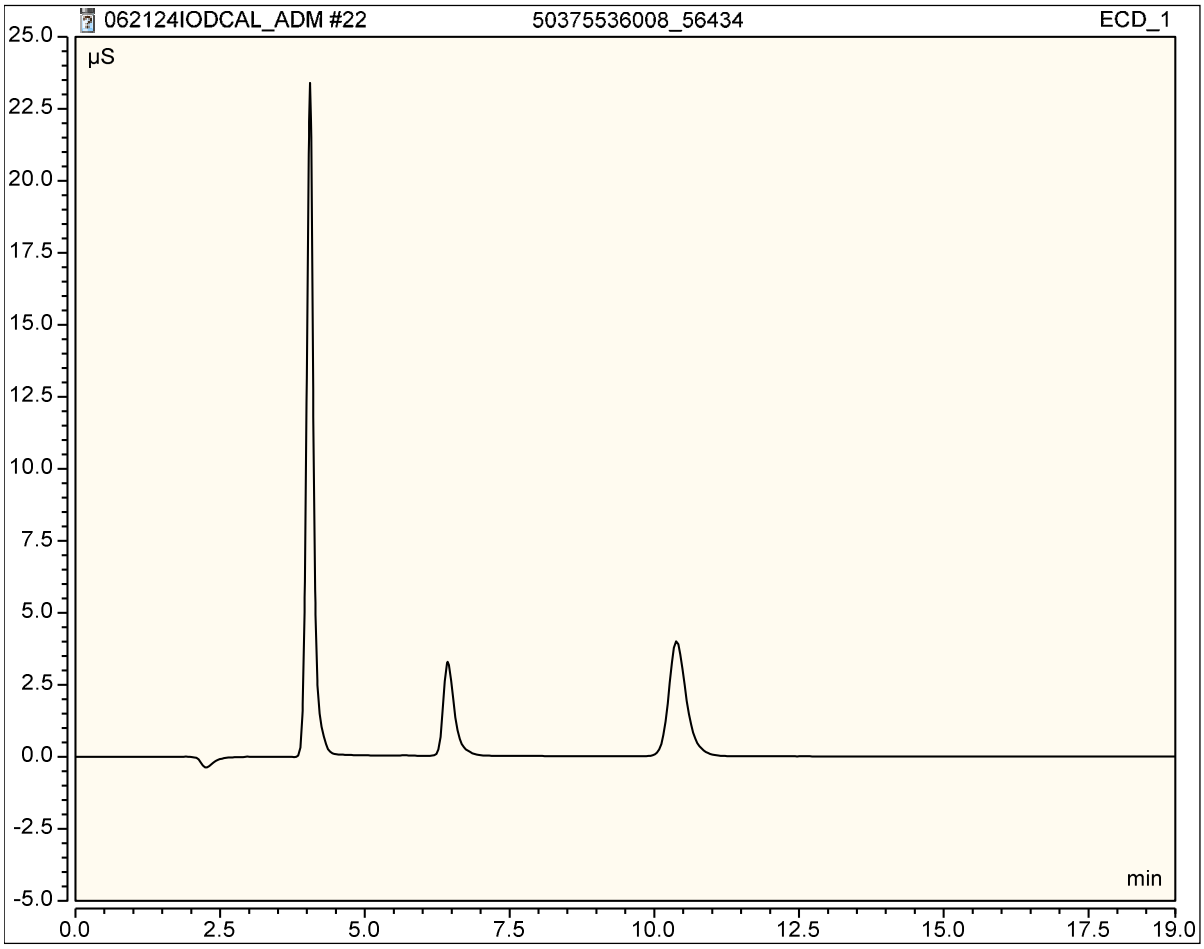
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536008_56434

Sample Name:	**50375536008_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

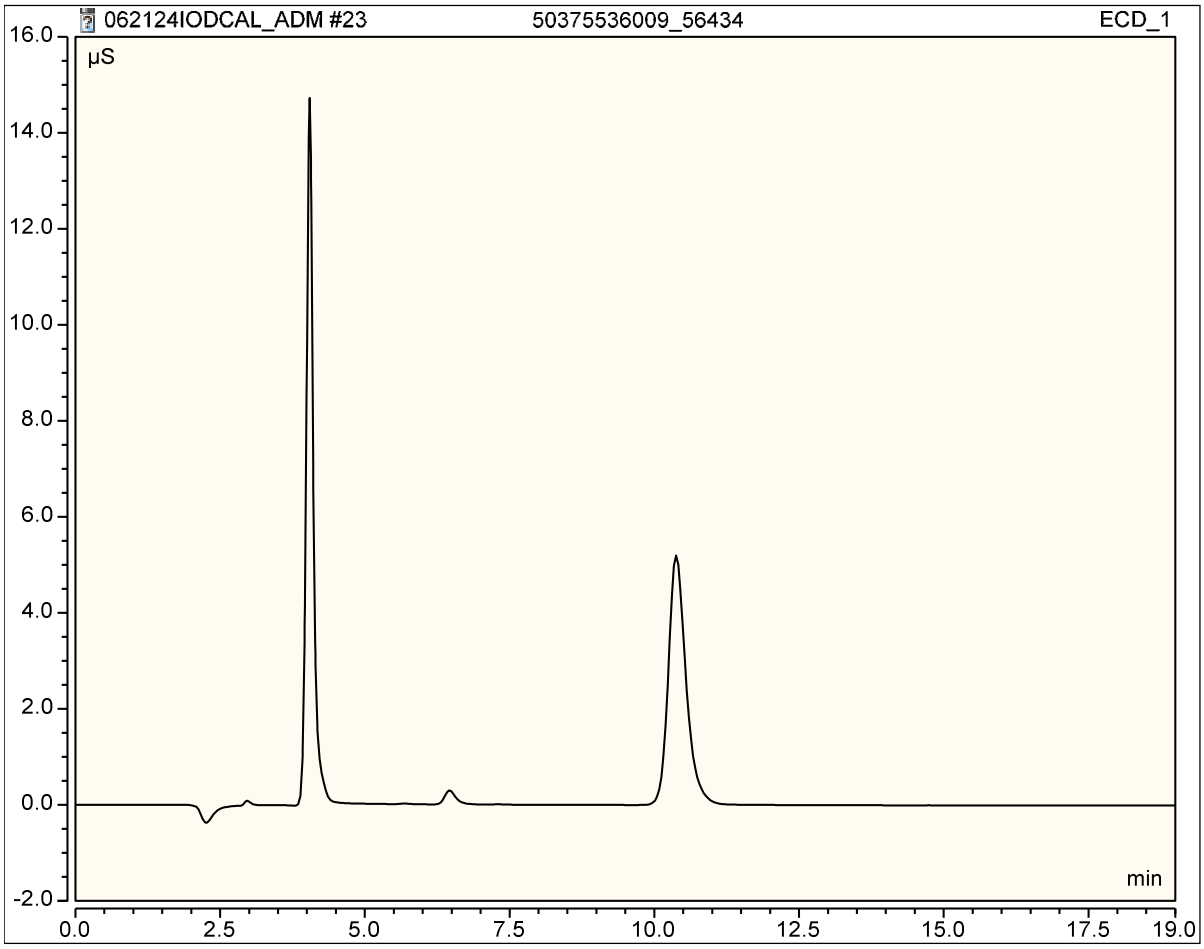
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536009_56434

Sample Name:	**50375536009_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*23*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

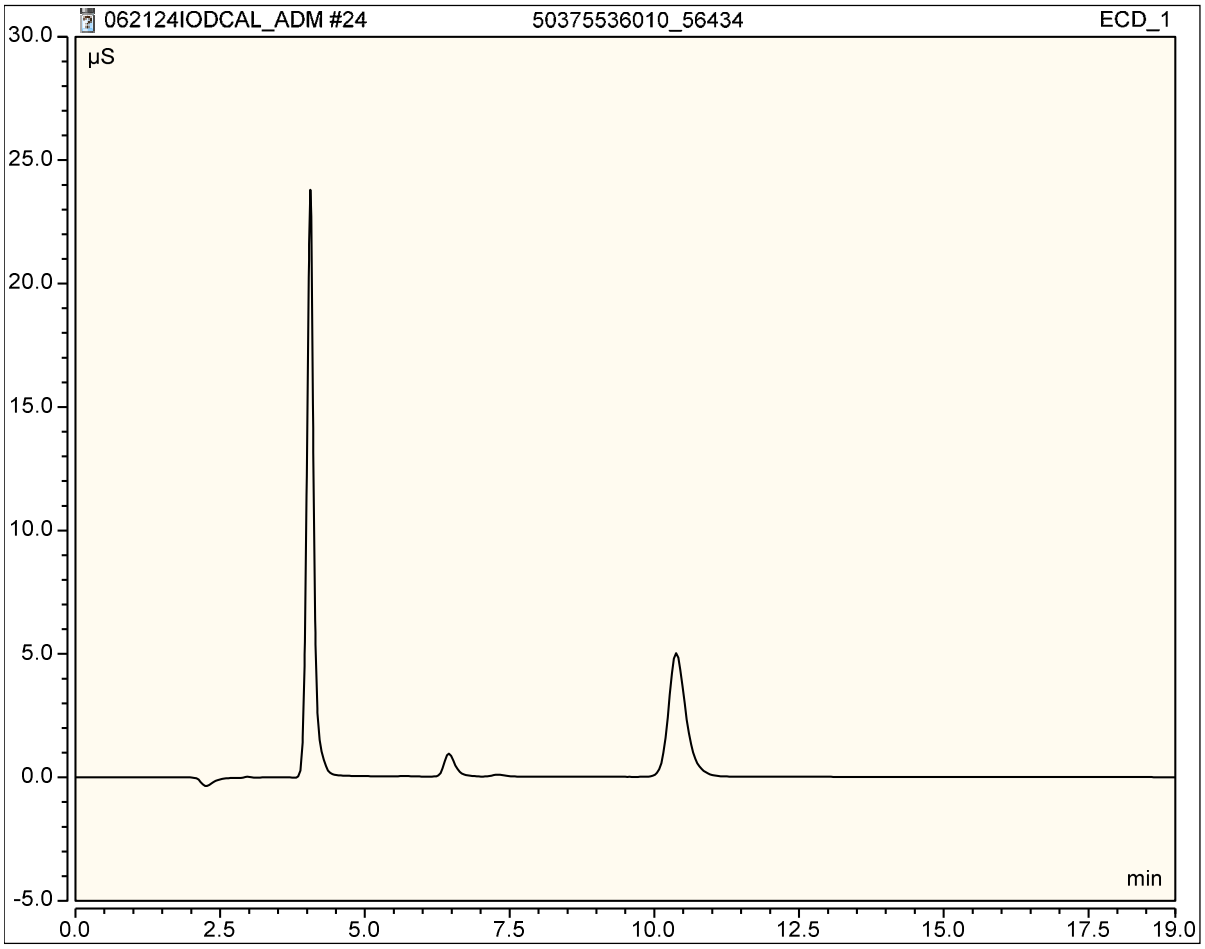
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536010_56434

Sample Name:	**50375536010_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*24*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:11**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

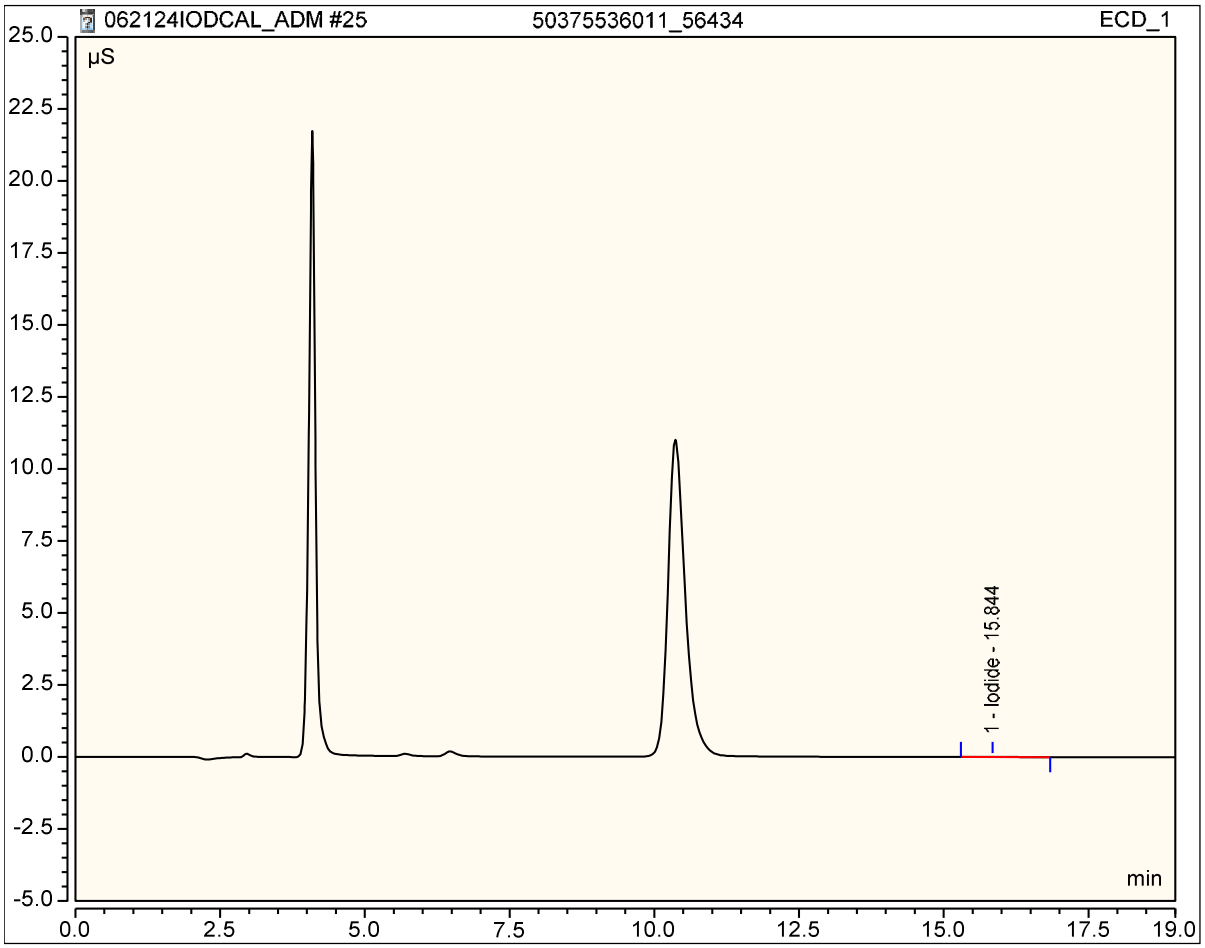
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536011_56434

Sample Name:	**50375536011_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*25*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:33**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

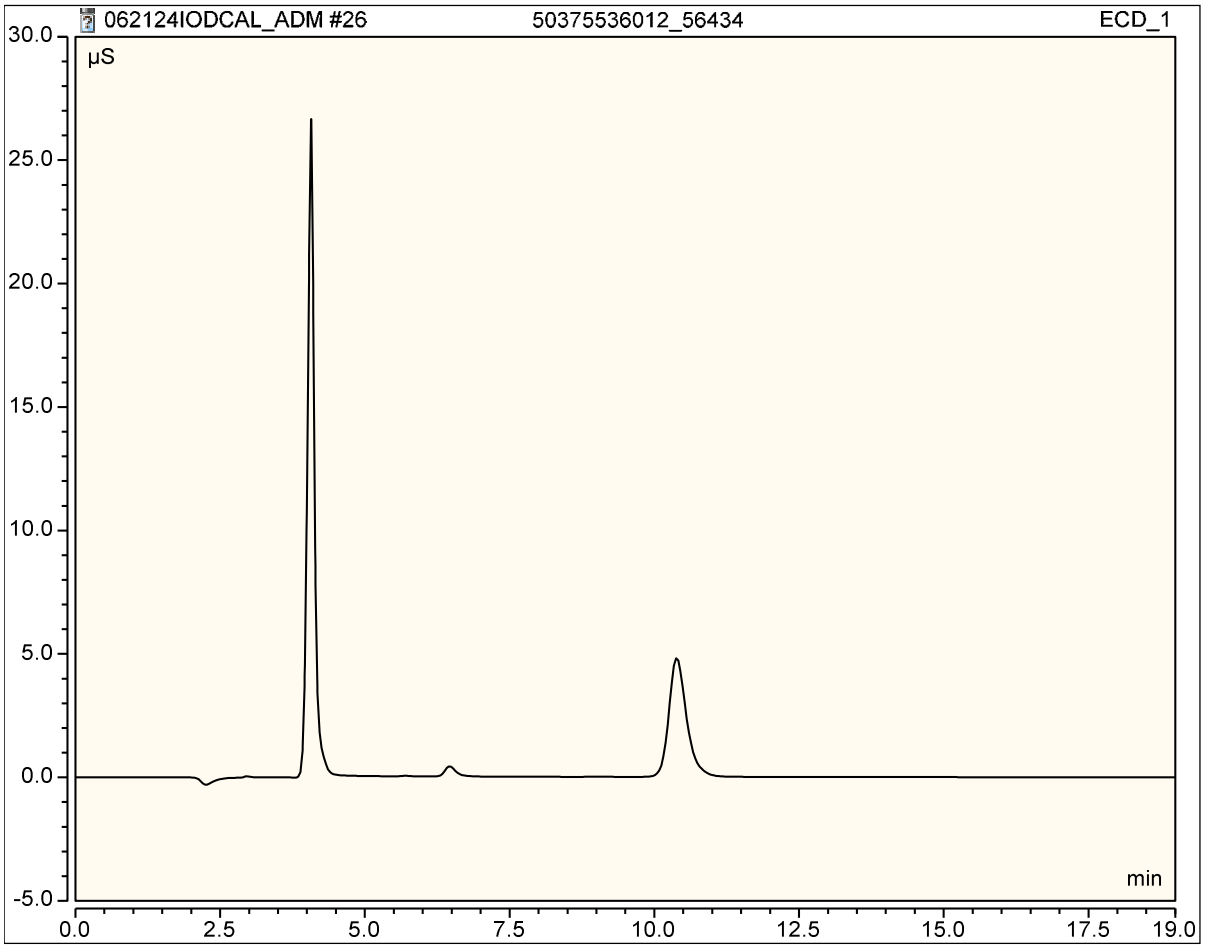
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.84	**Iodide**	0.2333	0.005	0.009	BMB



50375536012_56434

Sample Name:	**50375536012_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*26*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

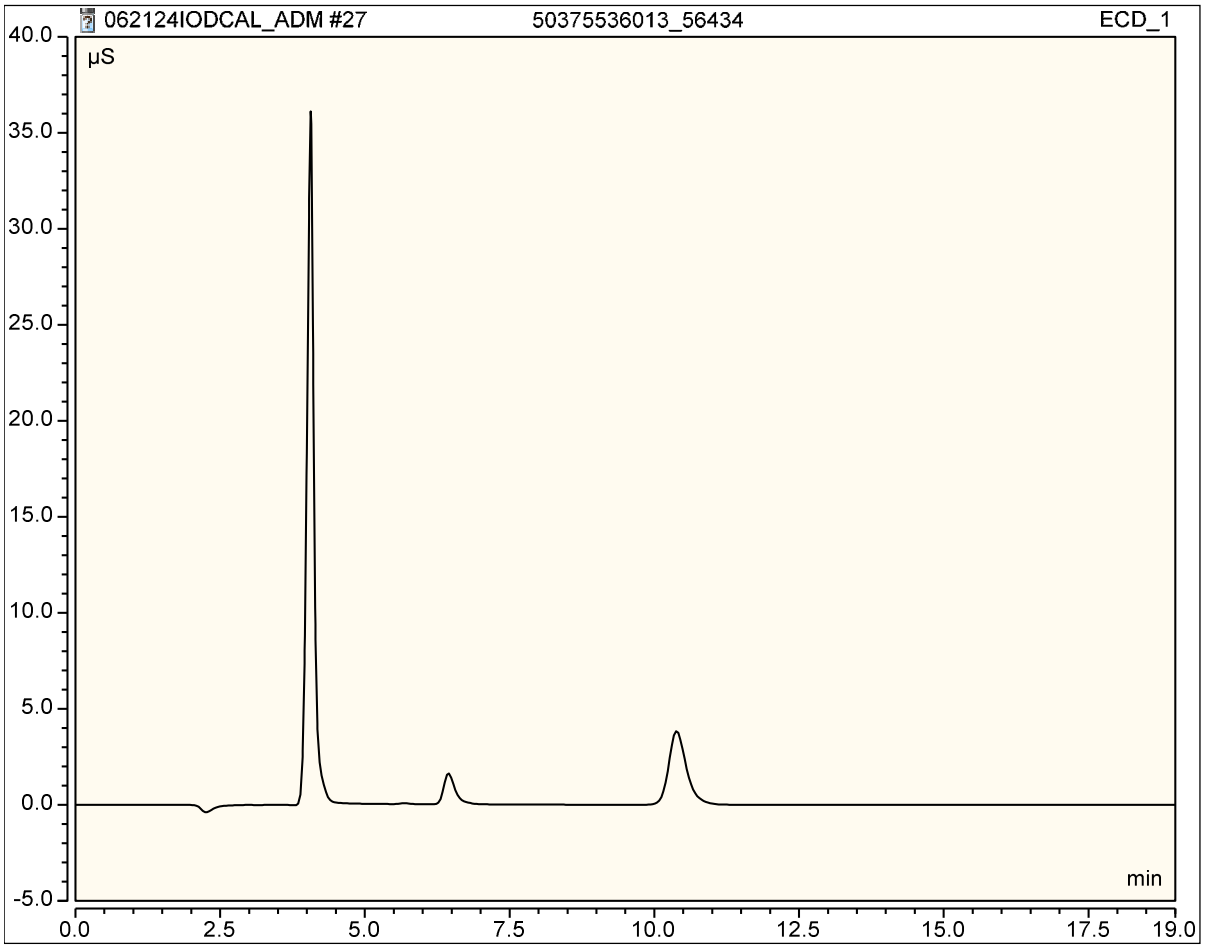
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536013_56434

Sample Name:	**50375536013_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*27*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 02:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

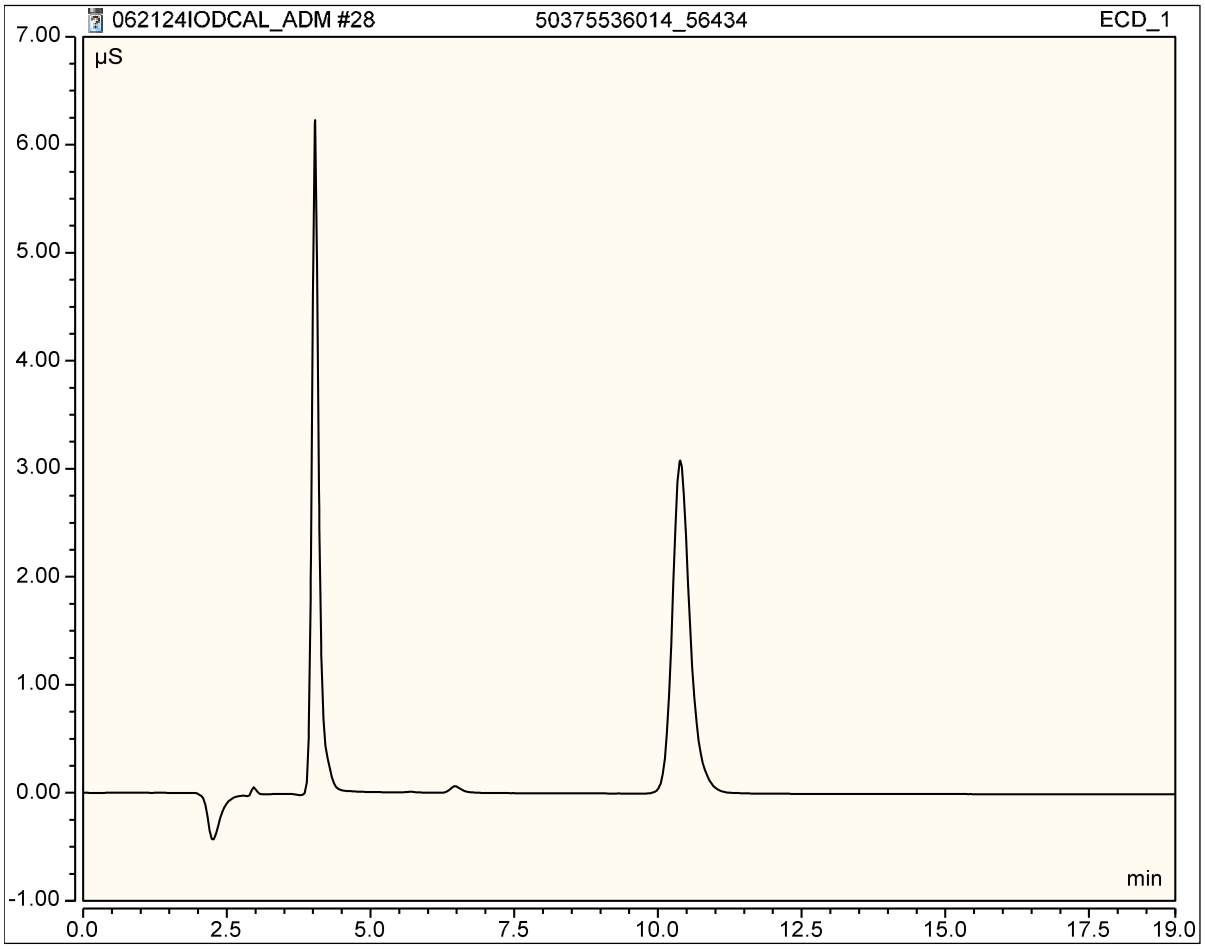
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536014_56434

Sample Name:	**50375536014_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*28*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 02:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

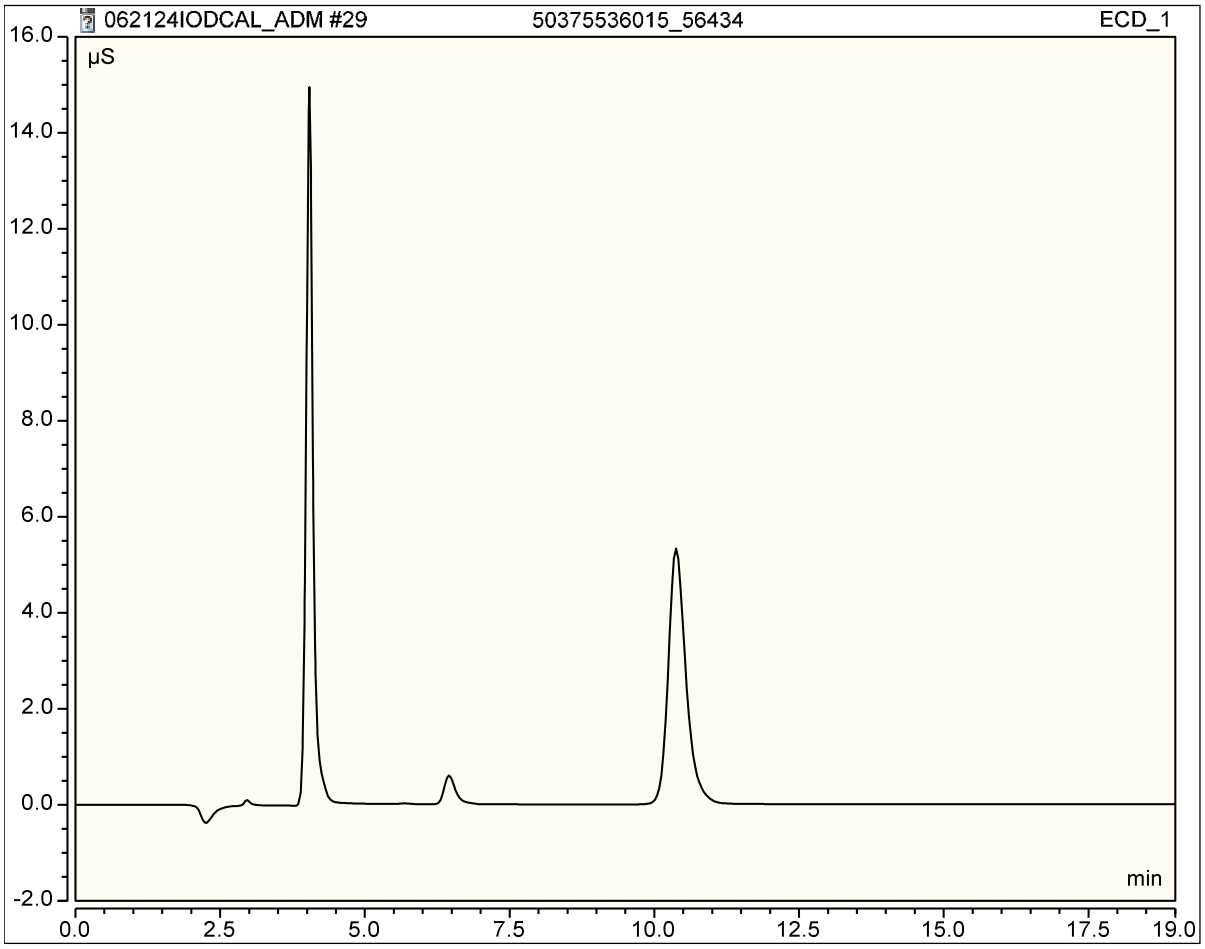
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536015_56434

Sample Name:	**50375536015_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*29*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:01**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

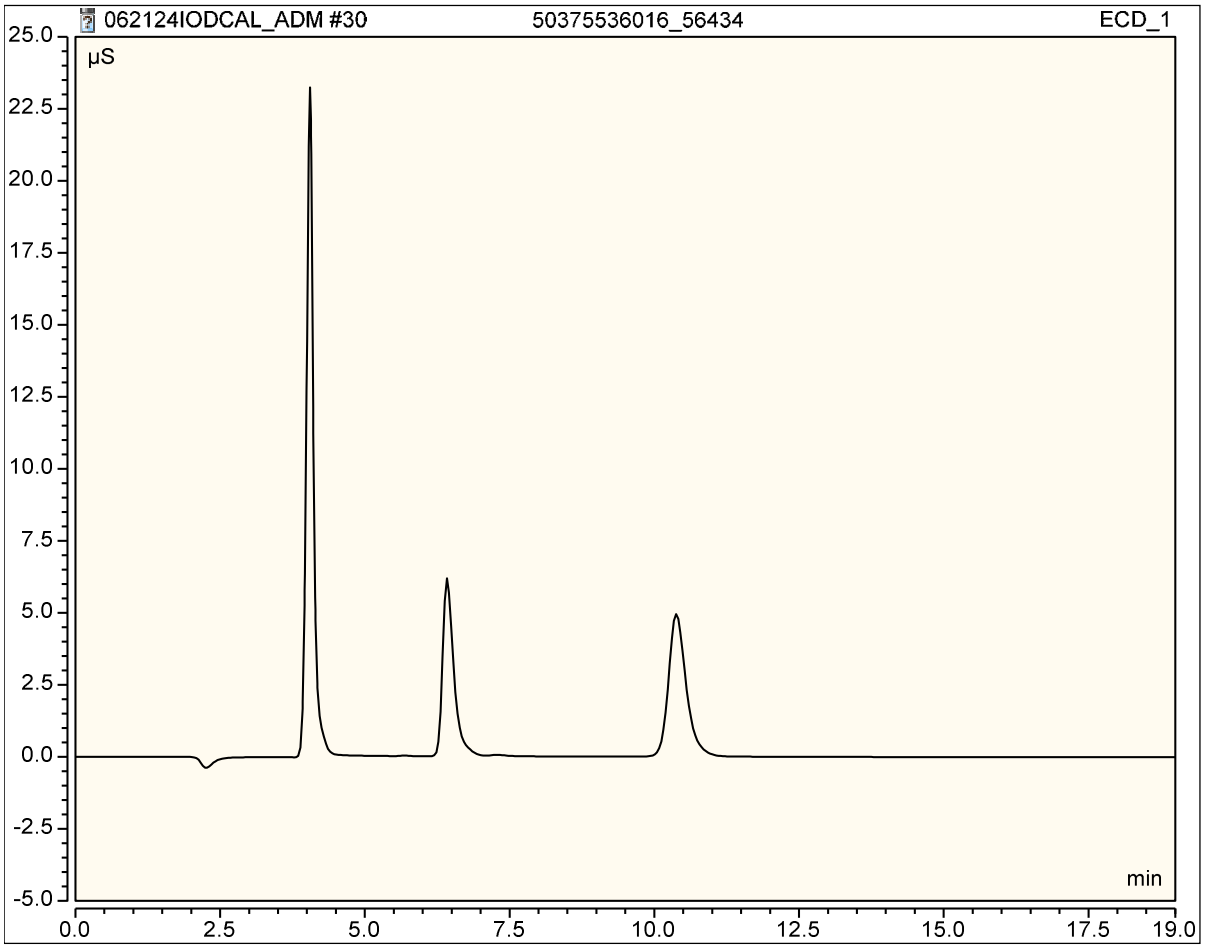
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536016_56434

Sample Name:	**50375536016_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*30*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

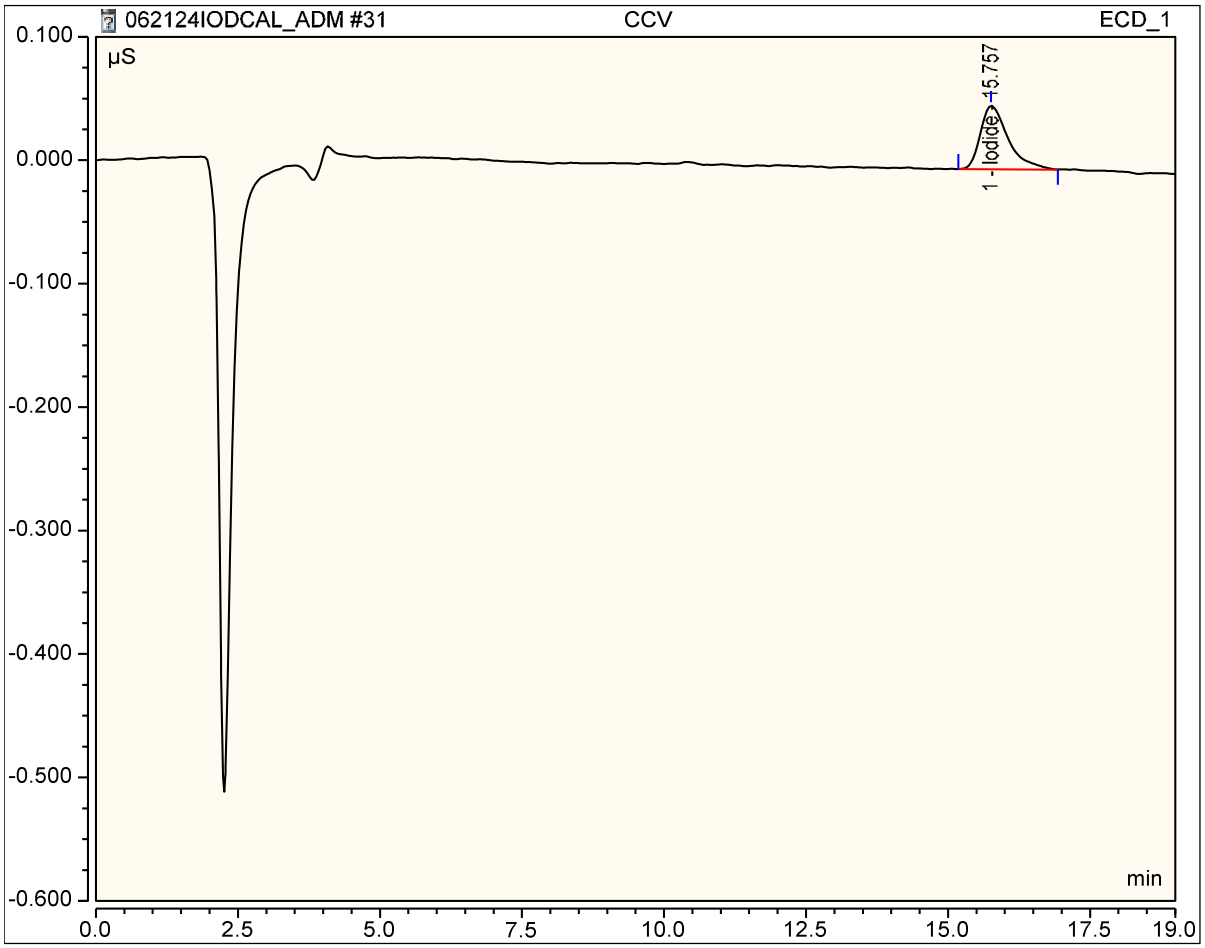
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*31*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

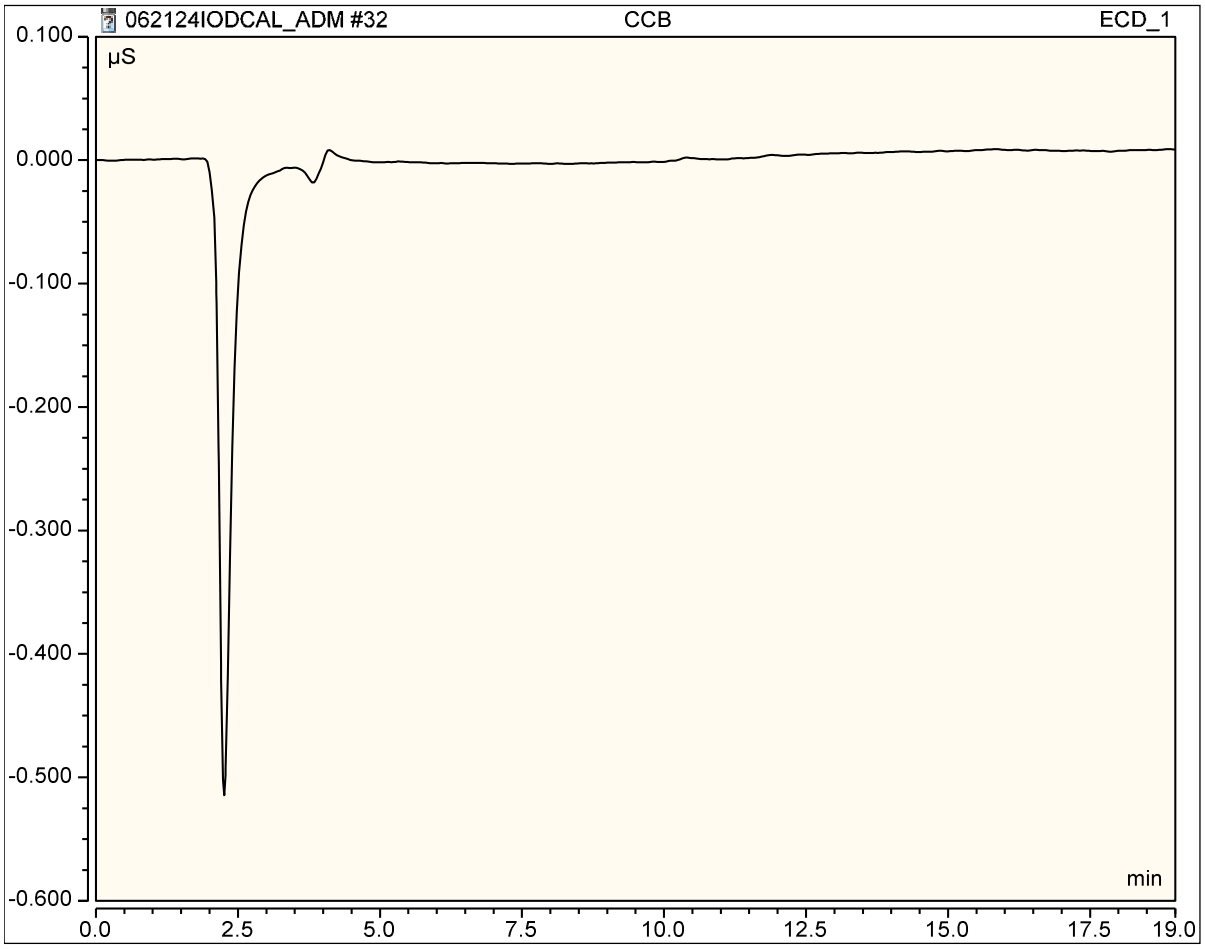
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0109	0.029	0.051	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*32*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

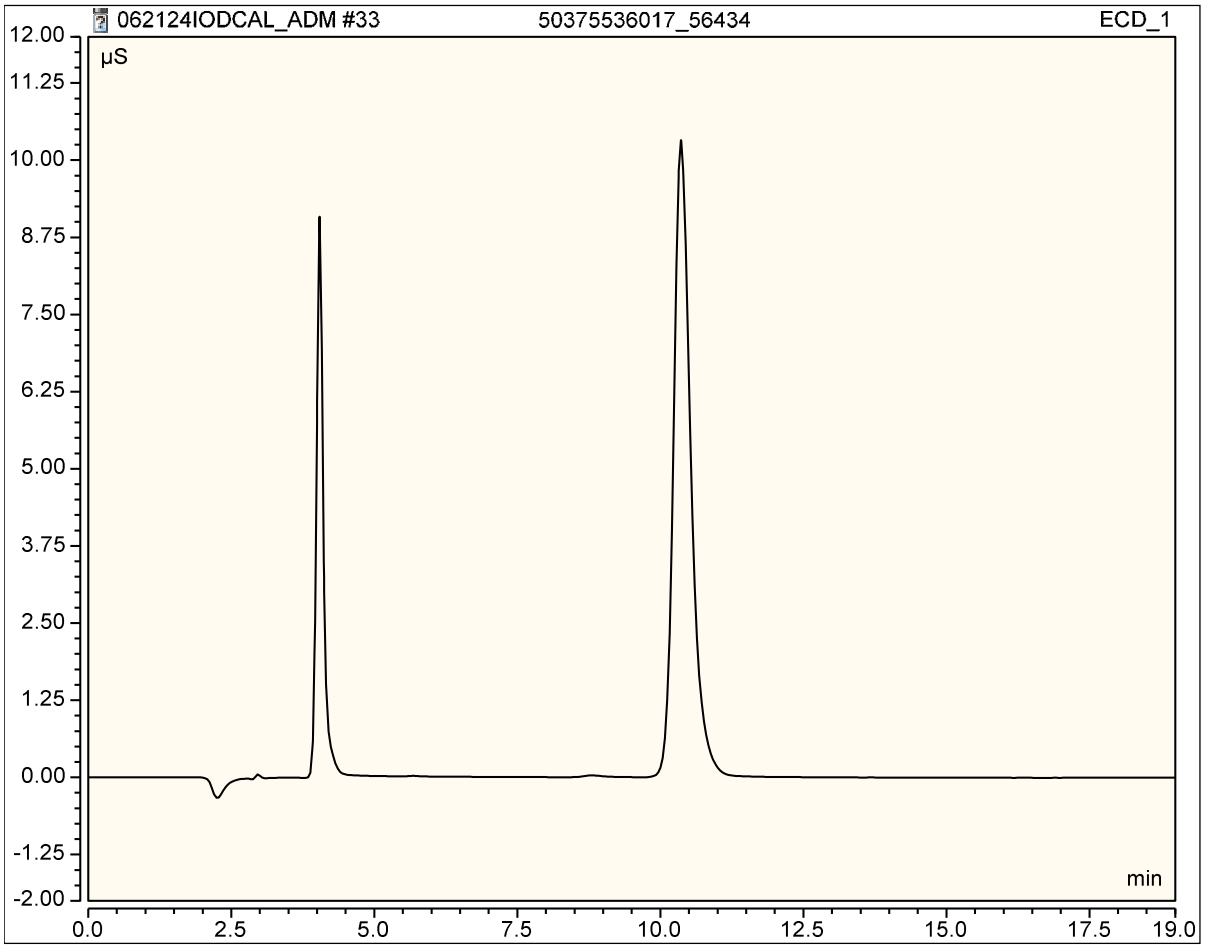
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536017_56434

Sample Name:	**50375536017_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

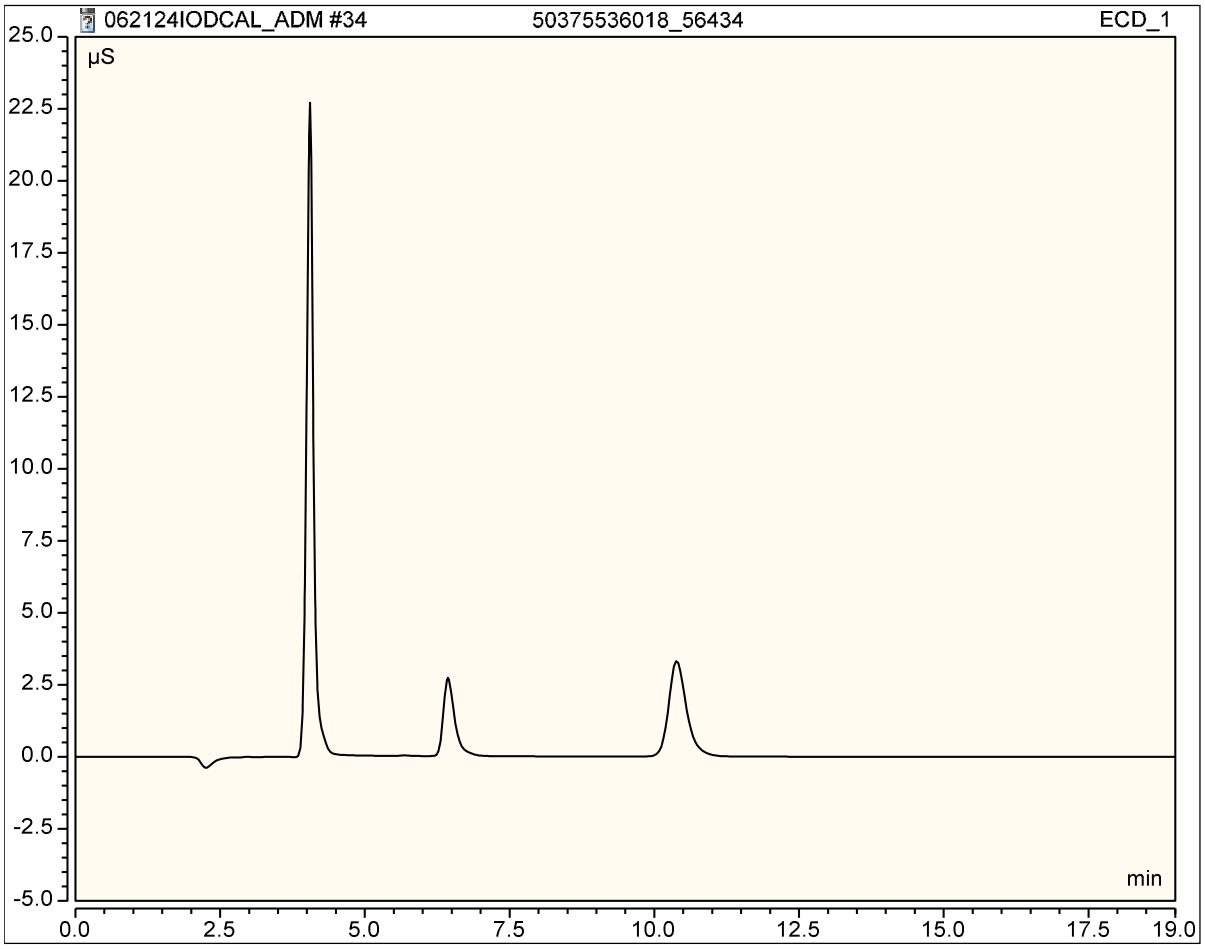
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536018_56434

Sample Name:	**50375536018_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

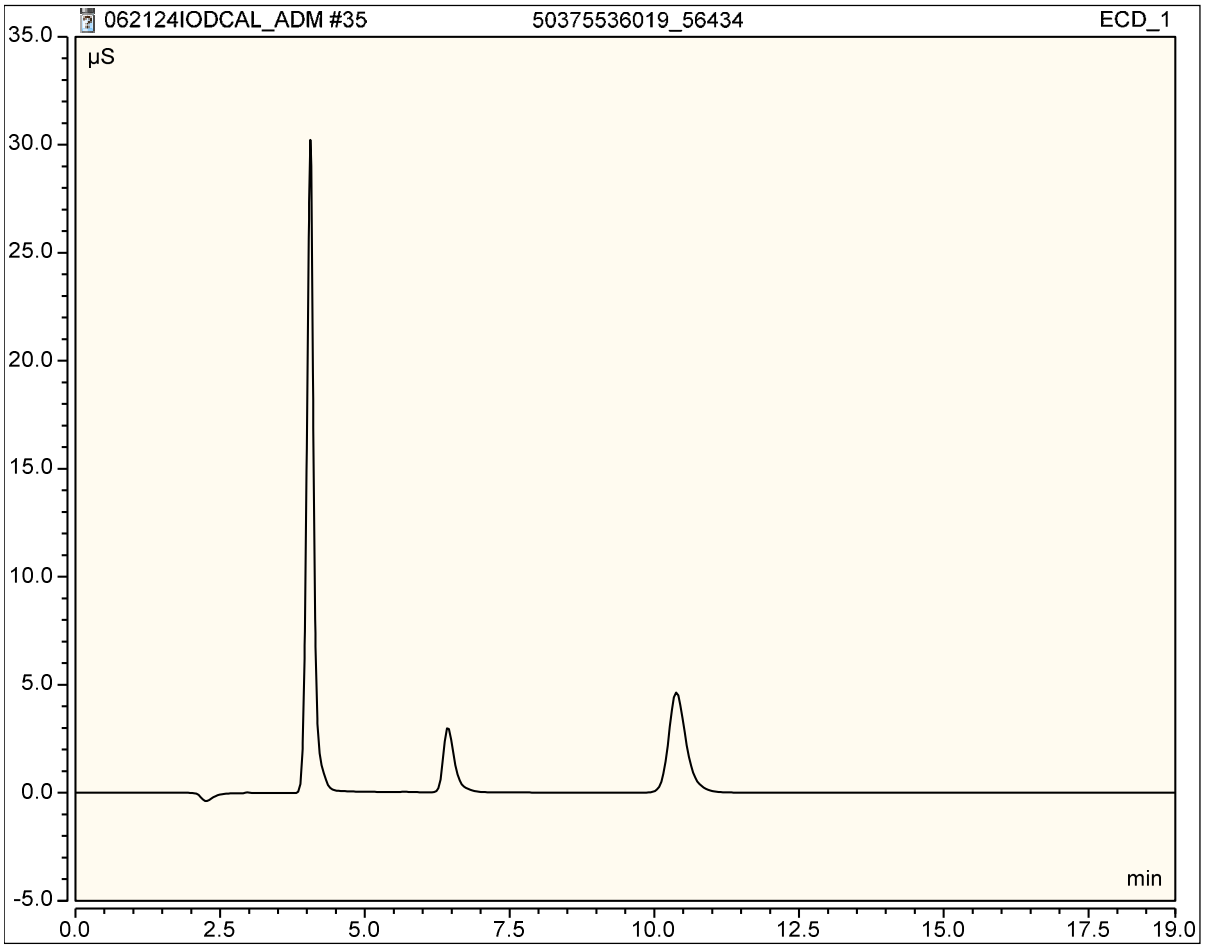
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536019_56434

Sample Name:	**50375536019_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

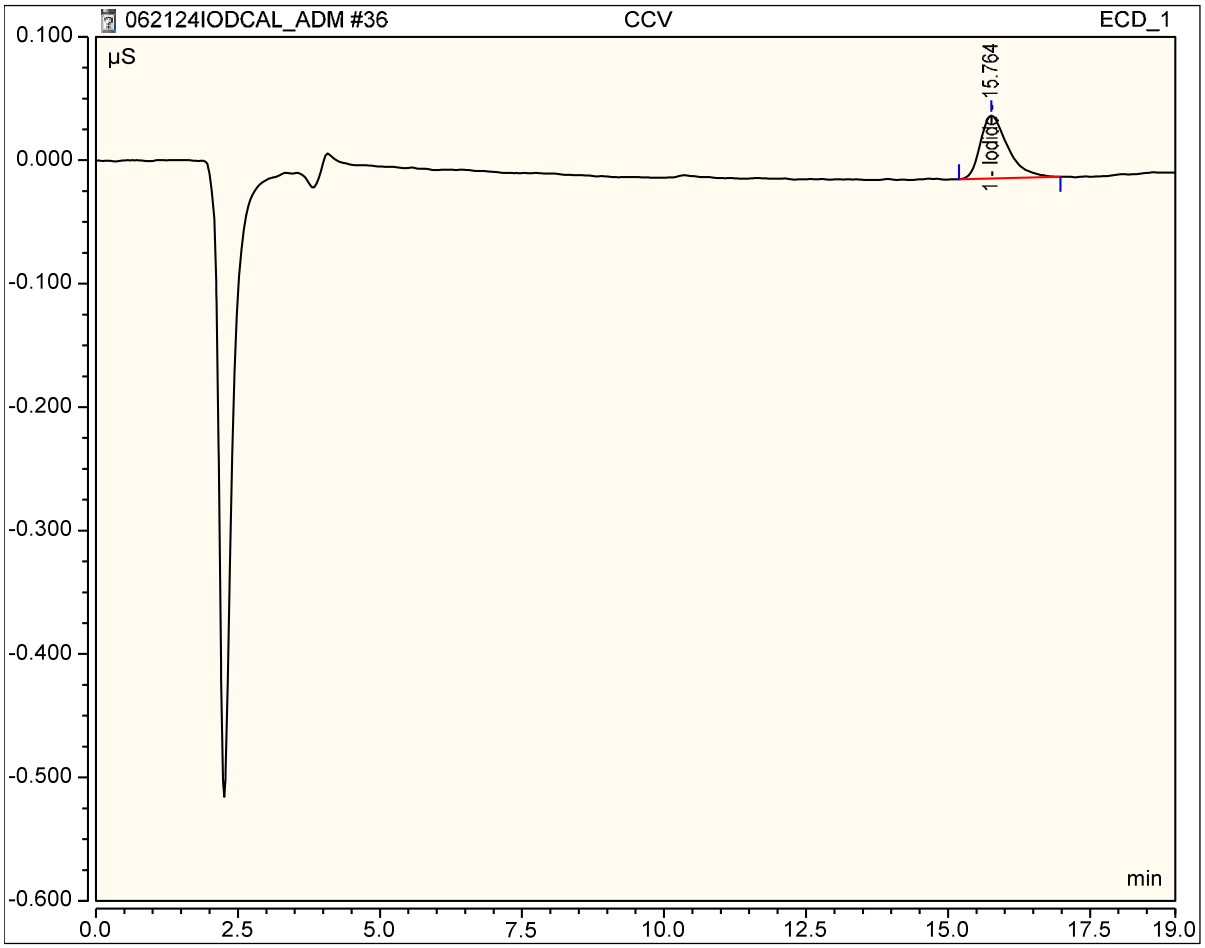
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

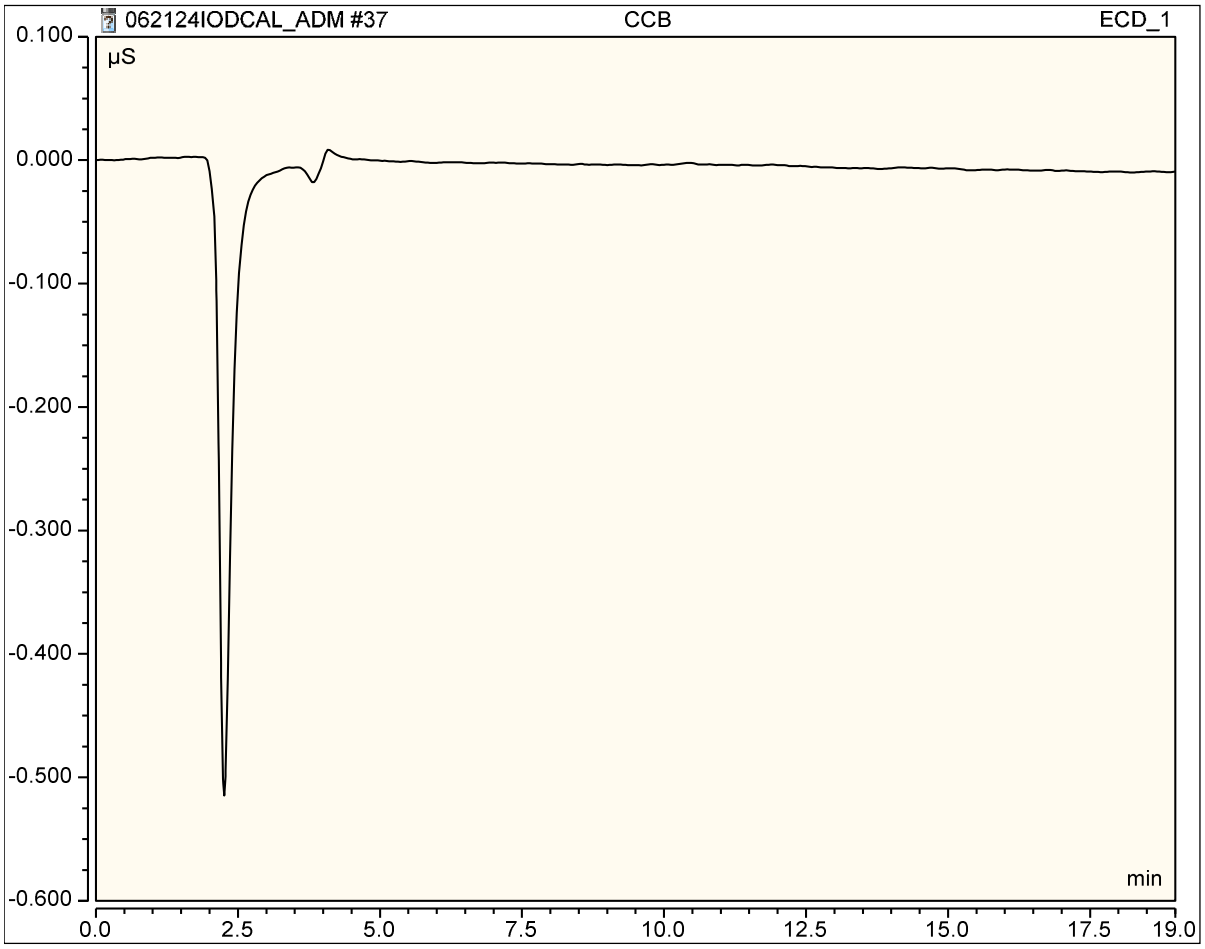
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	0.9942	0.029	0.051	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

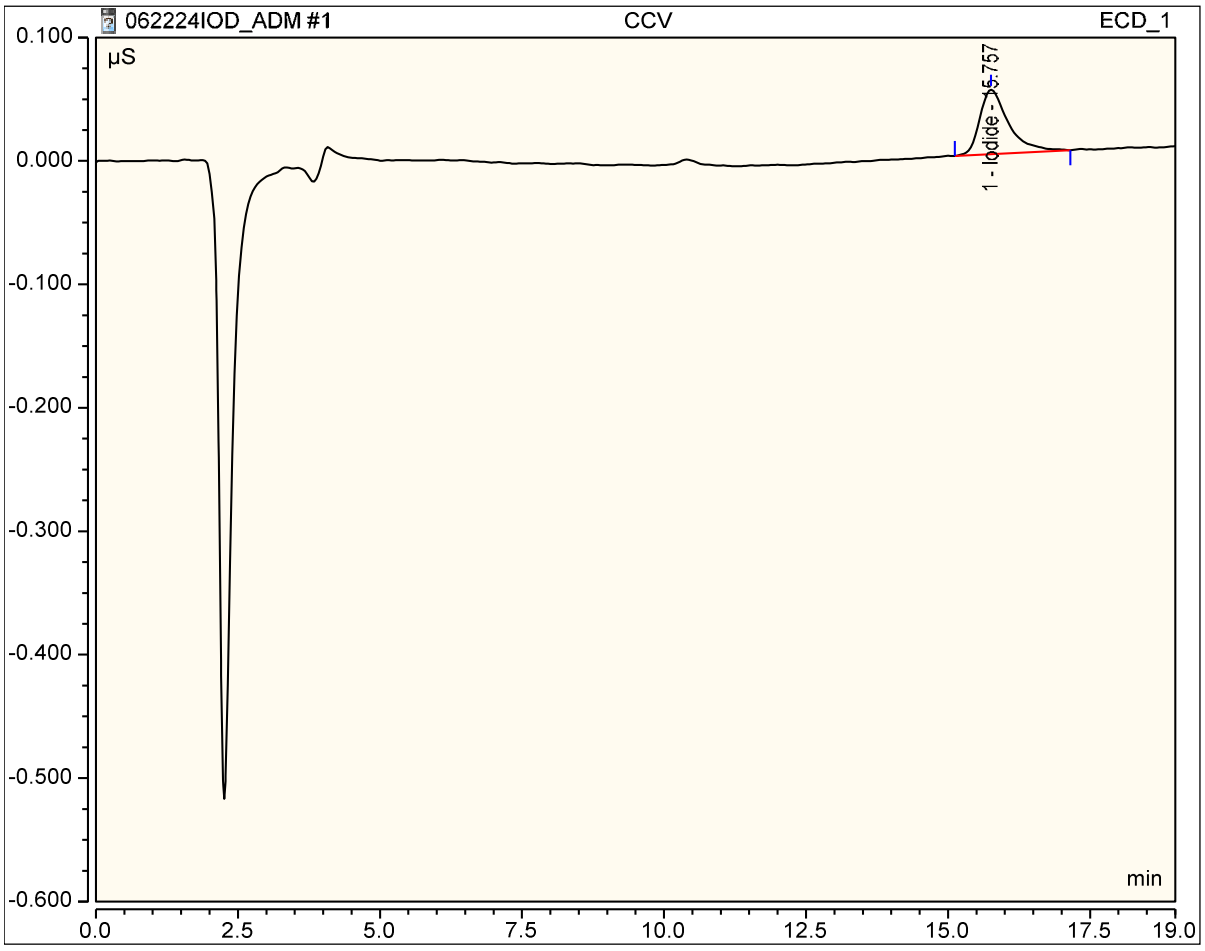
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 12:31**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

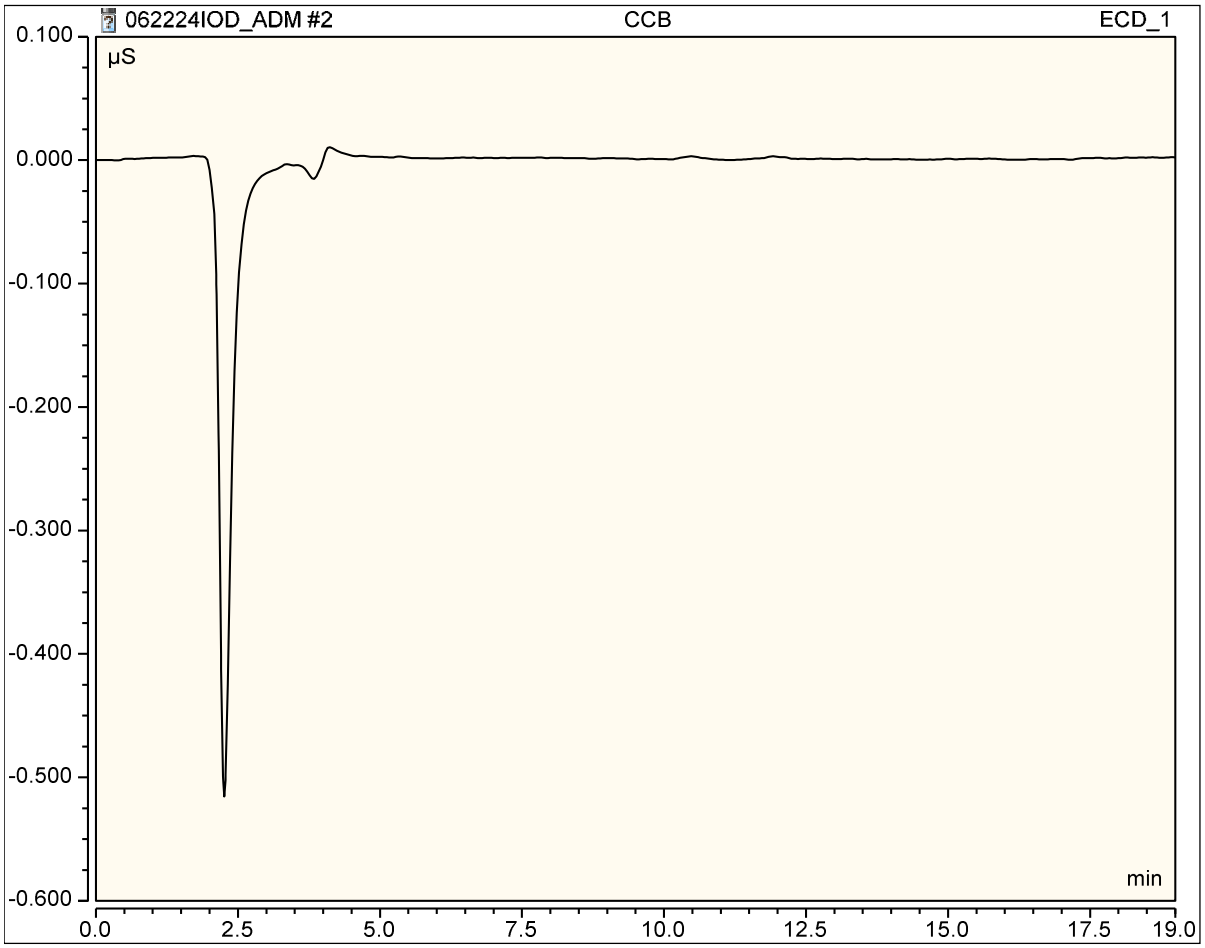
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0630	0.031	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 12:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

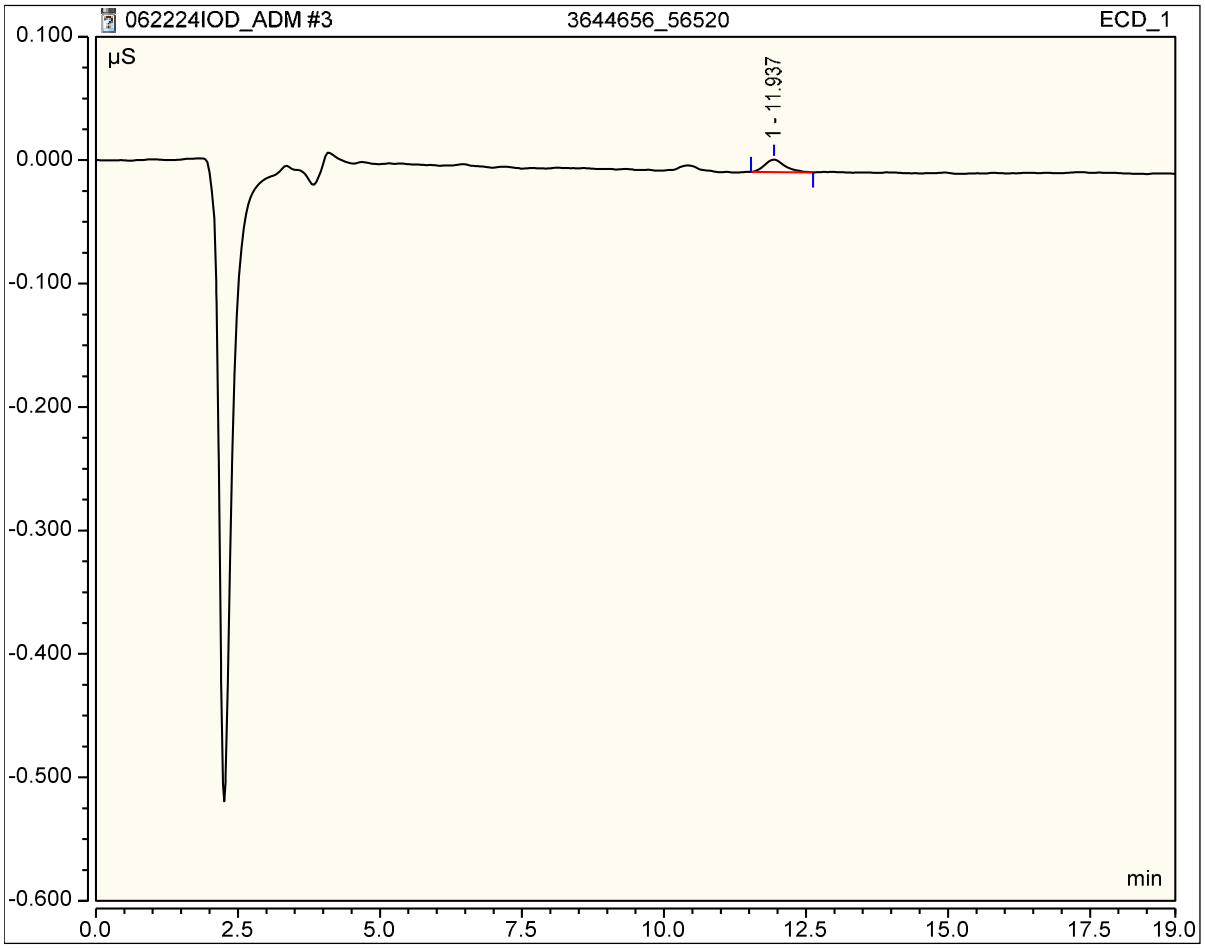
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644656_56520
340111

Sample Name:	**3644656_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 13:14**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

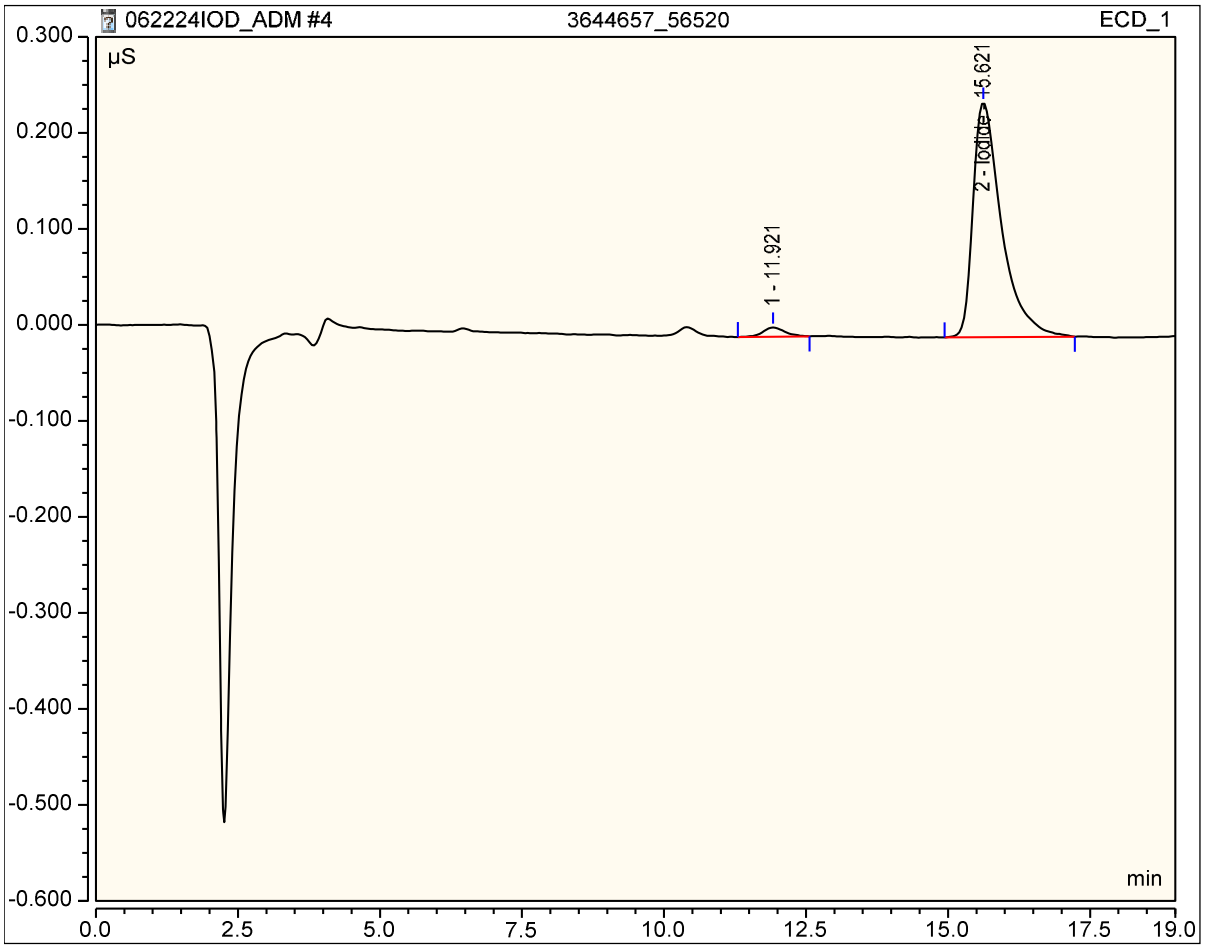
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644657_56520
377680

Sample Name:	**3644657_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 13:36**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

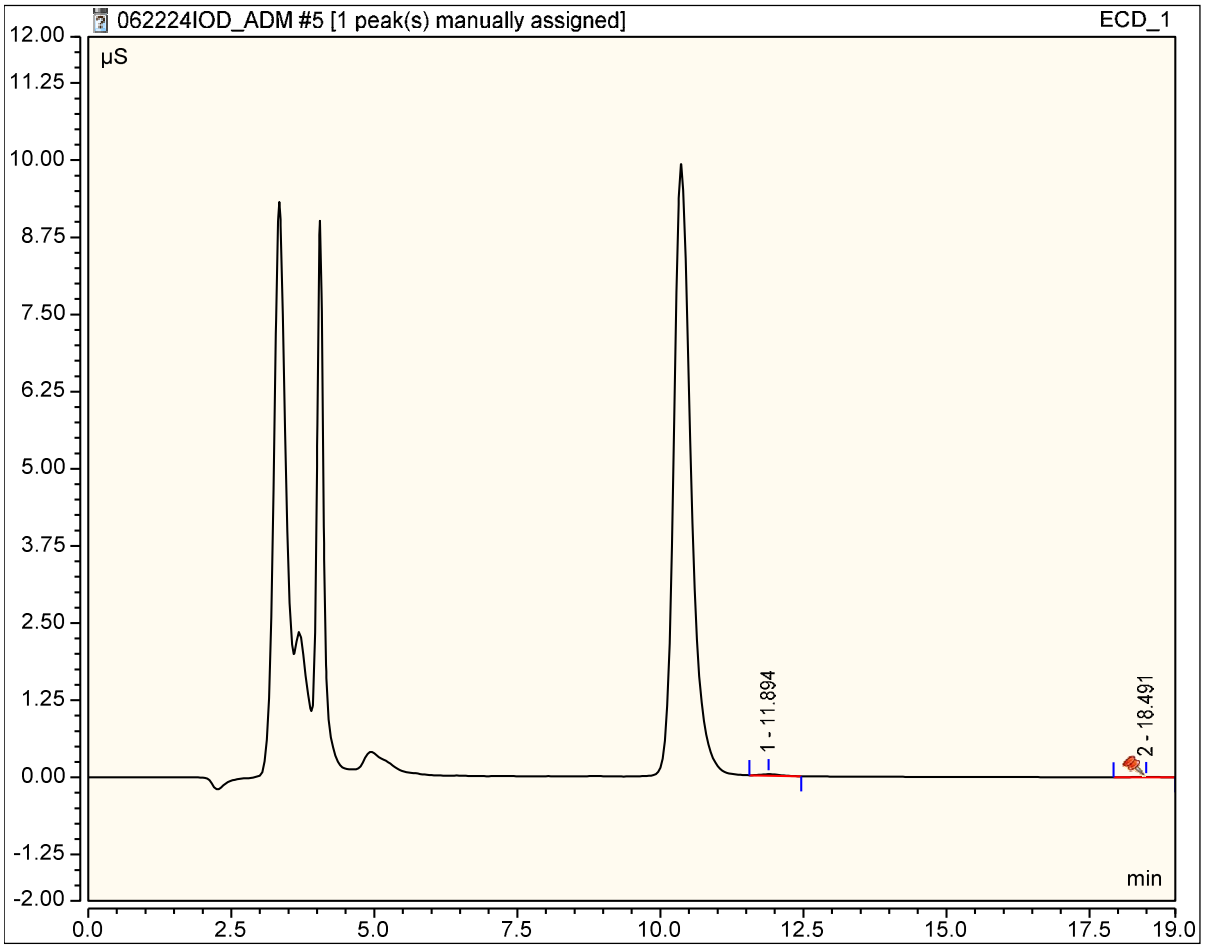
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.62	**Iodide**	4.6787	0.142	0.244	BMB



92735570001_56520X10

Sample Name:	**92735570001_56520X10**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 16:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

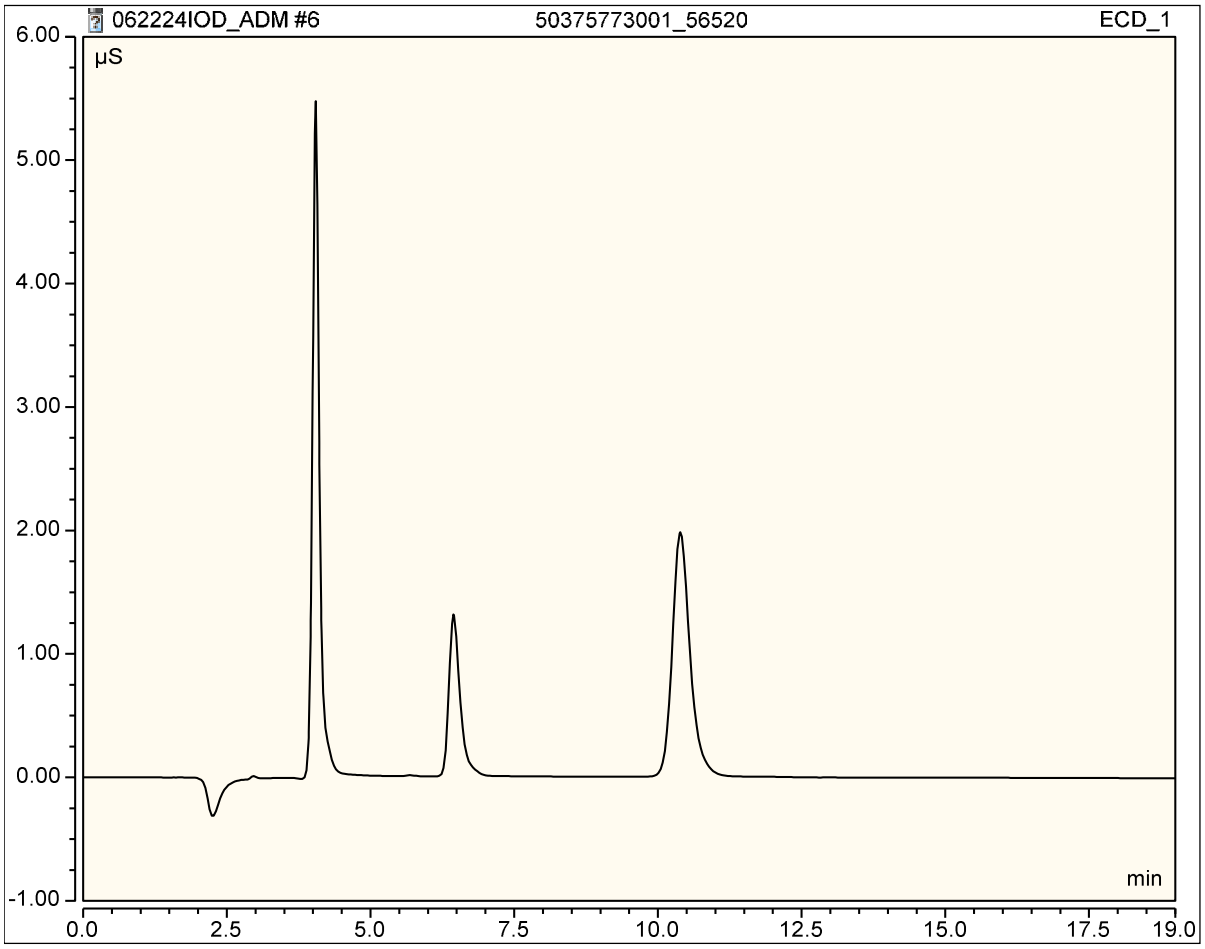
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773001_56520

Sample Name:	**50375773001_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

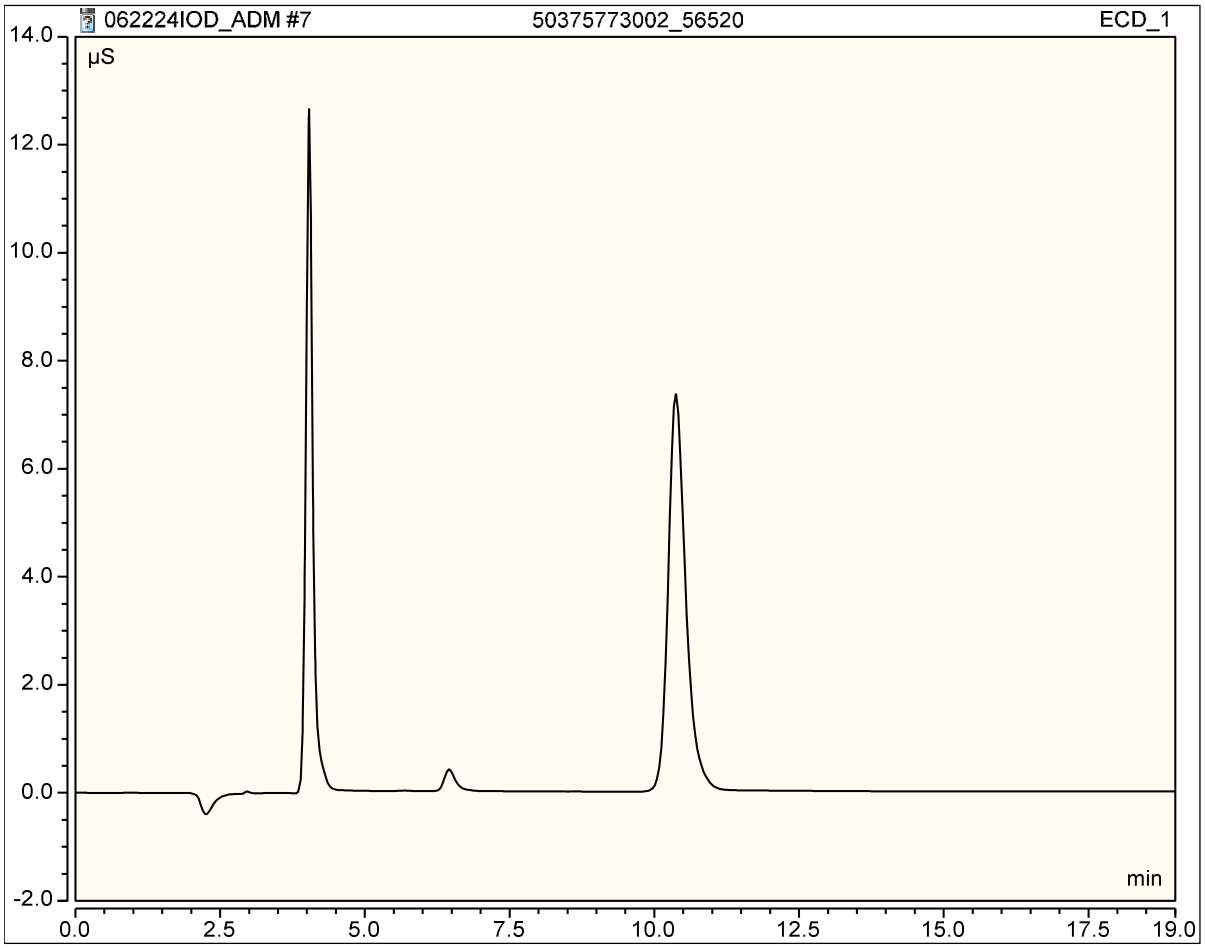
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773002_56520

Sample Name:	**50375773002_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

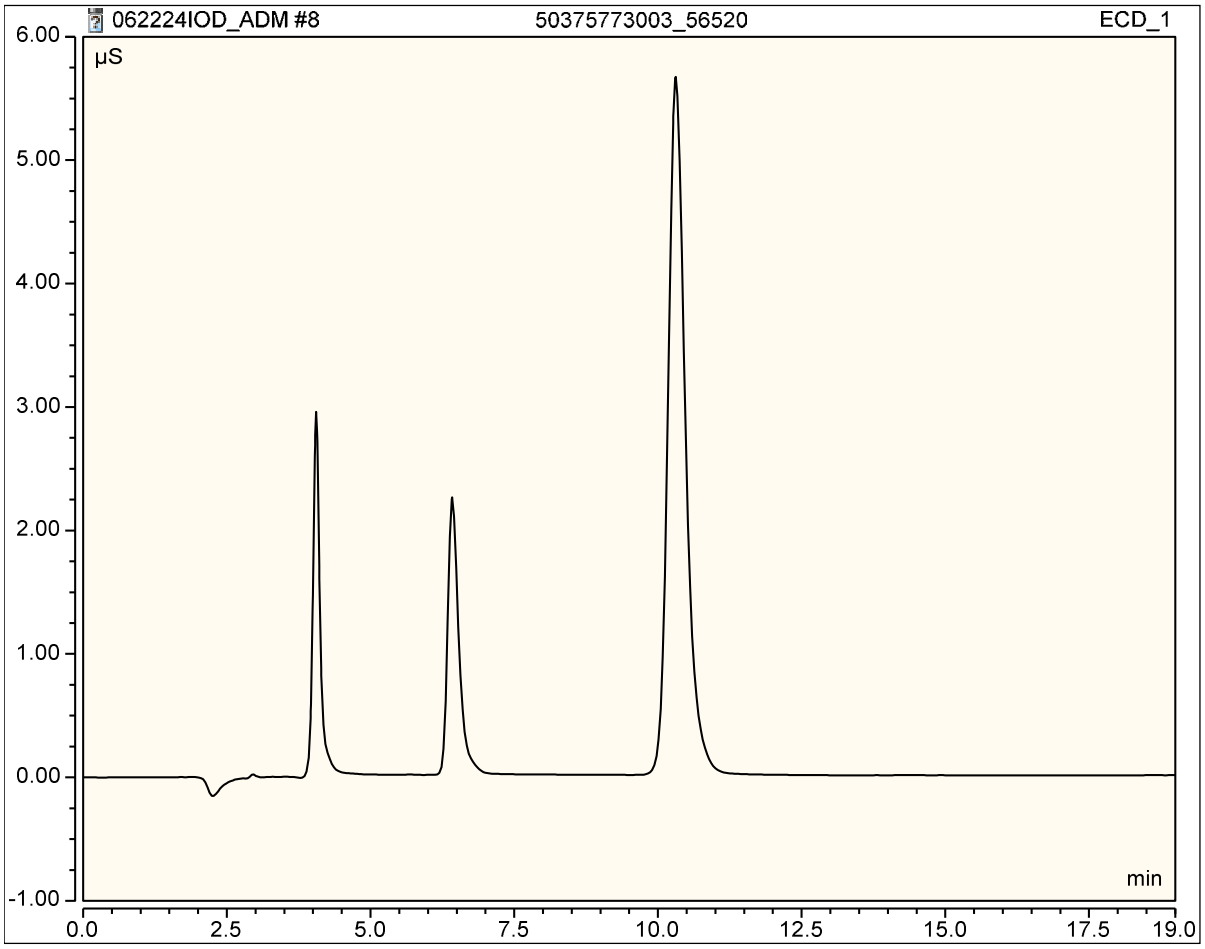
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773003_56520

Sample Name:	**50375773003_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

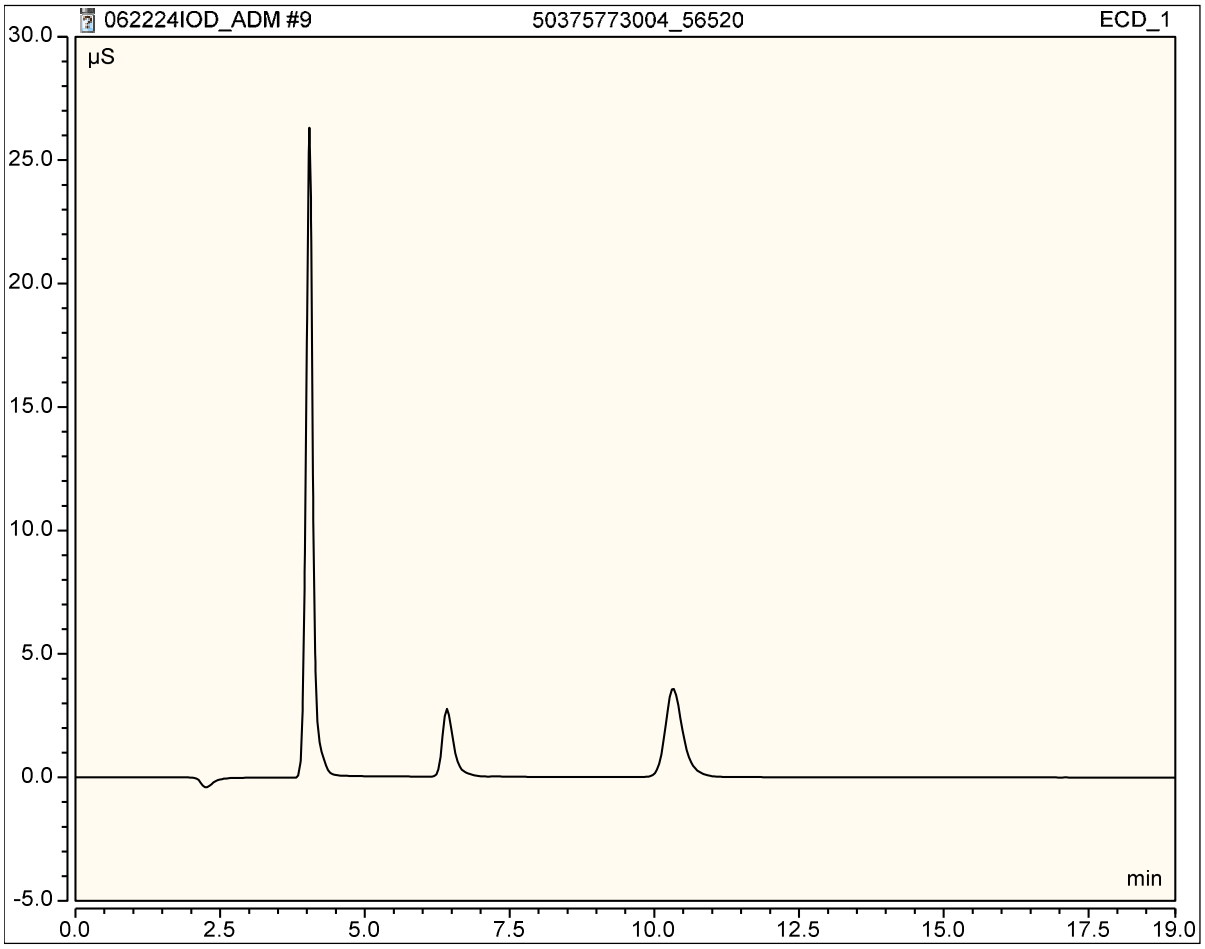
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773004_56520

Sample Name:	**50375773004_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

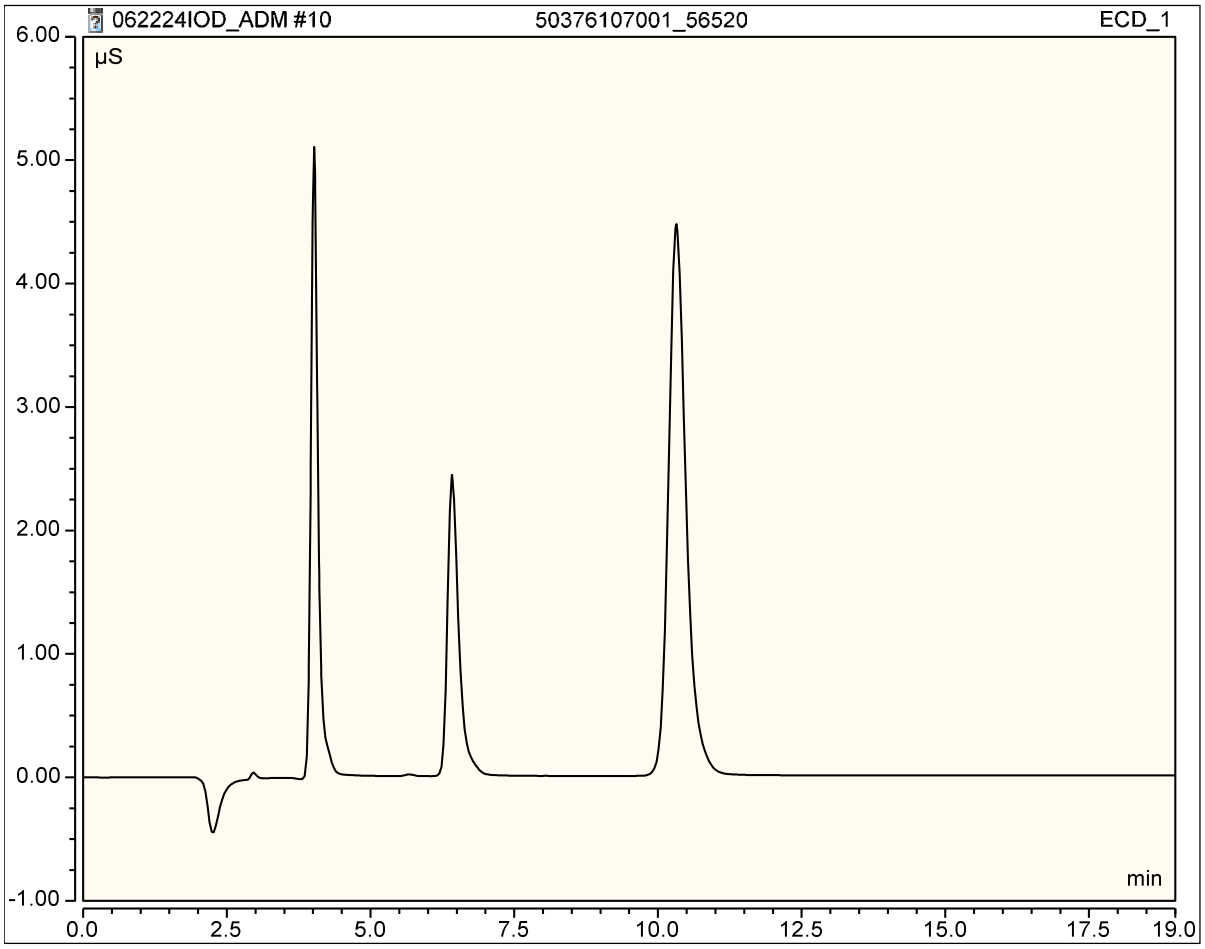
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107001_56520

Sample Name:	**50376107001_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

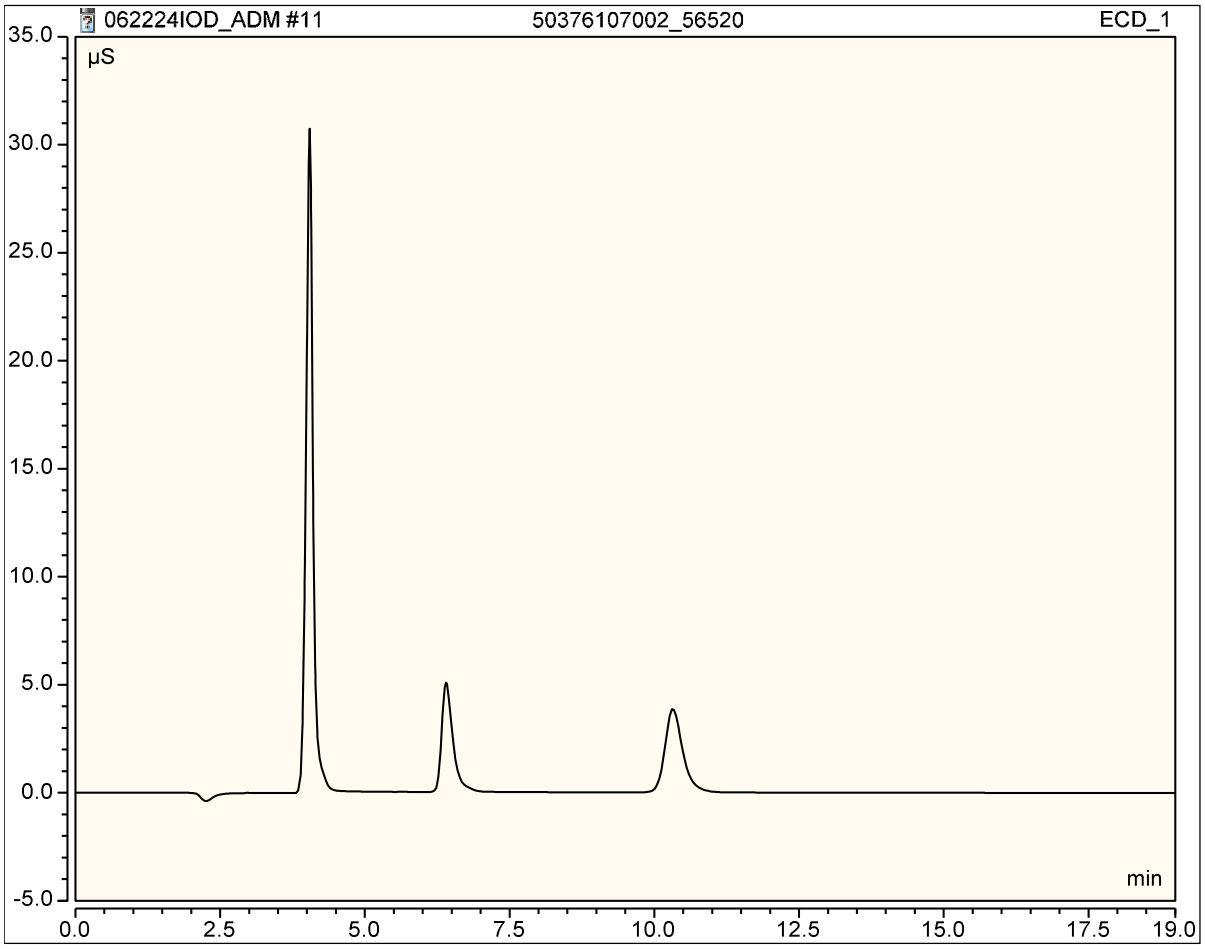
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107002_56520

Sample Name:	**50376107002_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

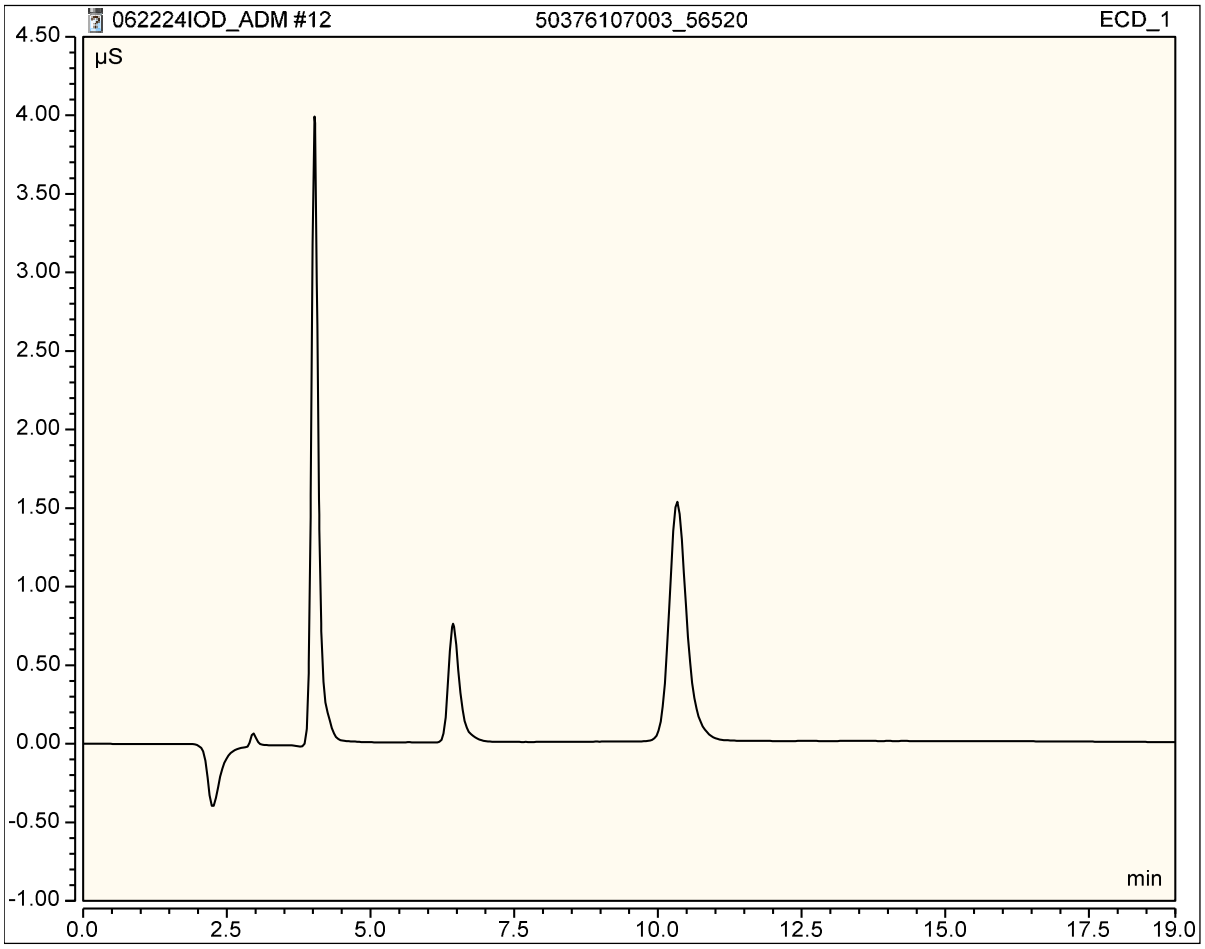
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107003_56520

Sample Name:	**50376107003_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 19:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

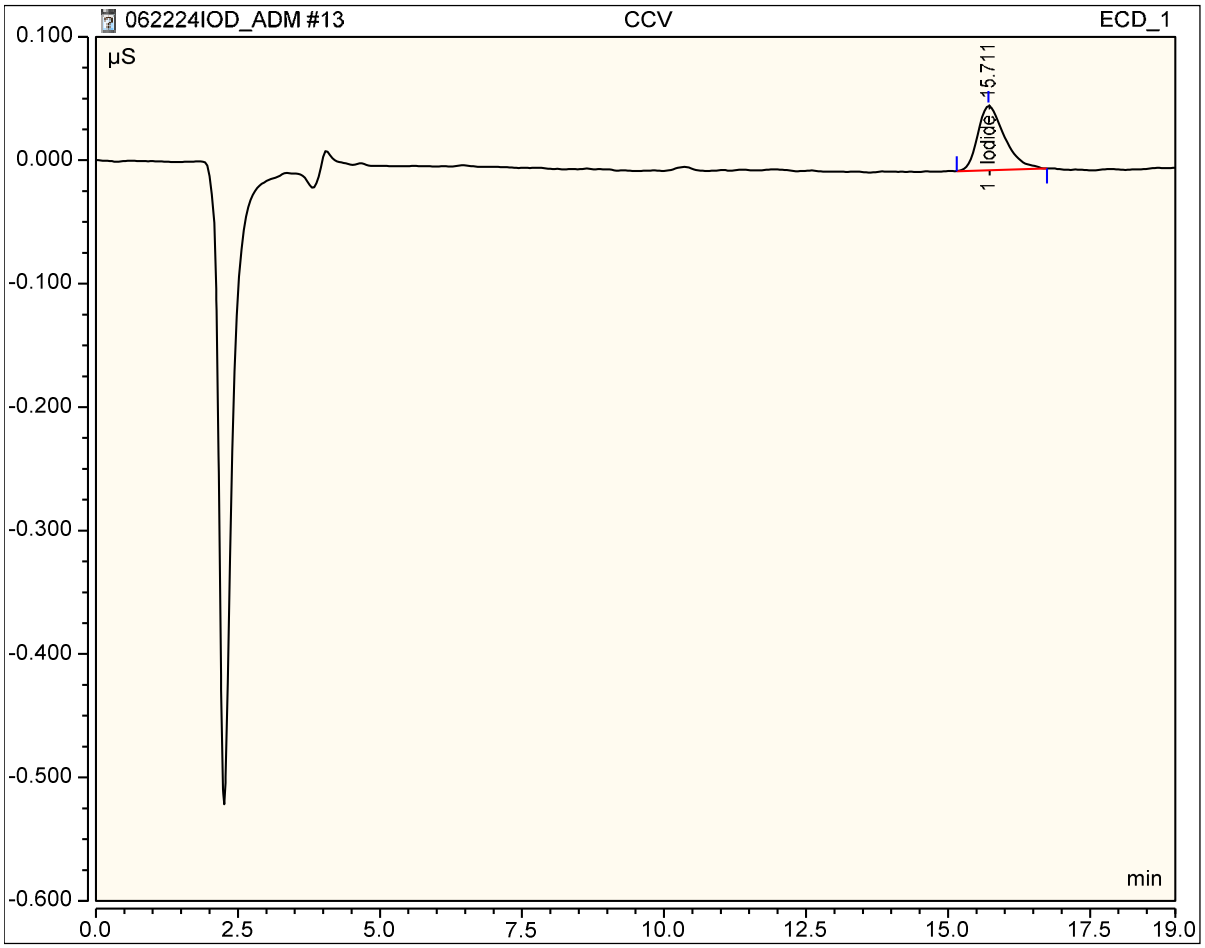
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 19:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

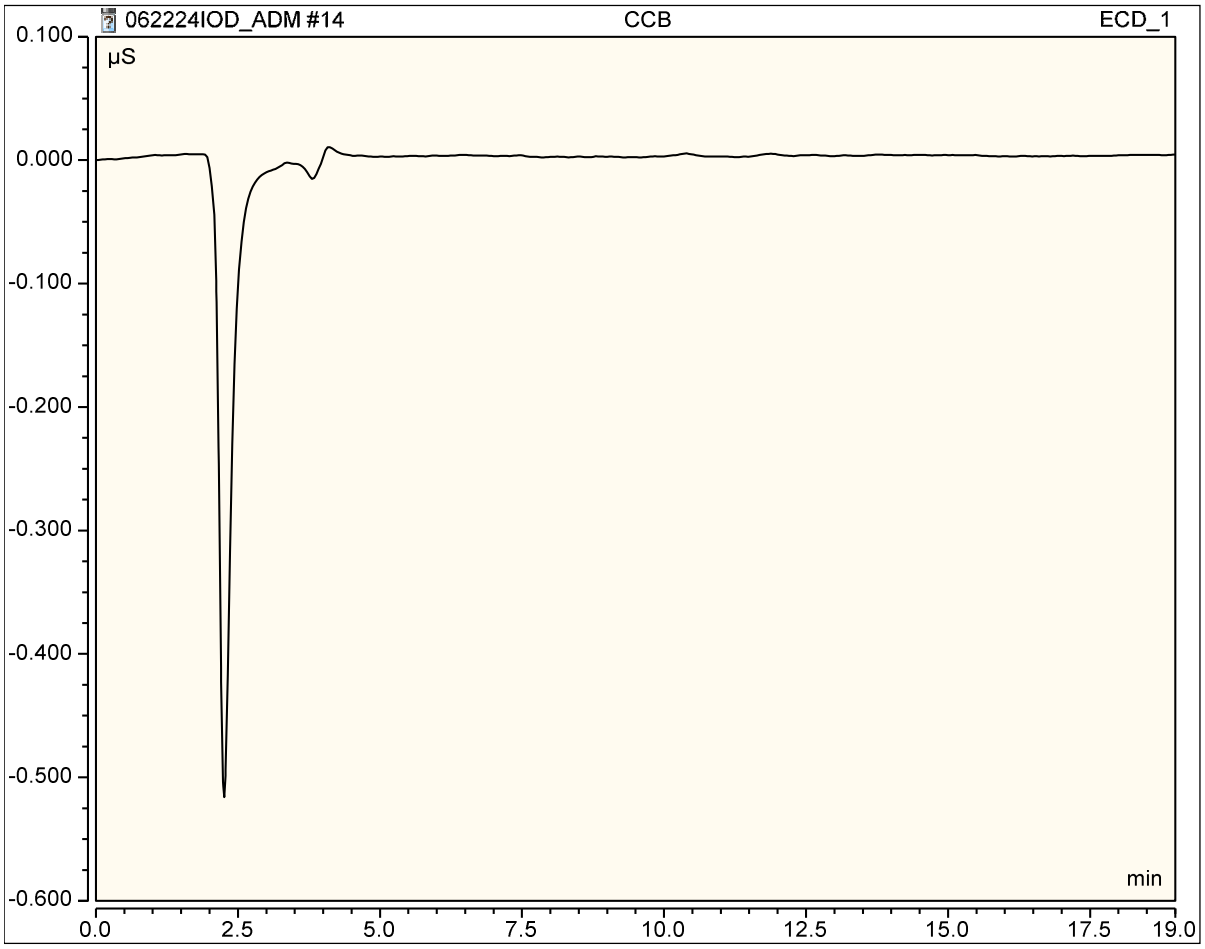
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	0.9914	0.028	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*10*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:01**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

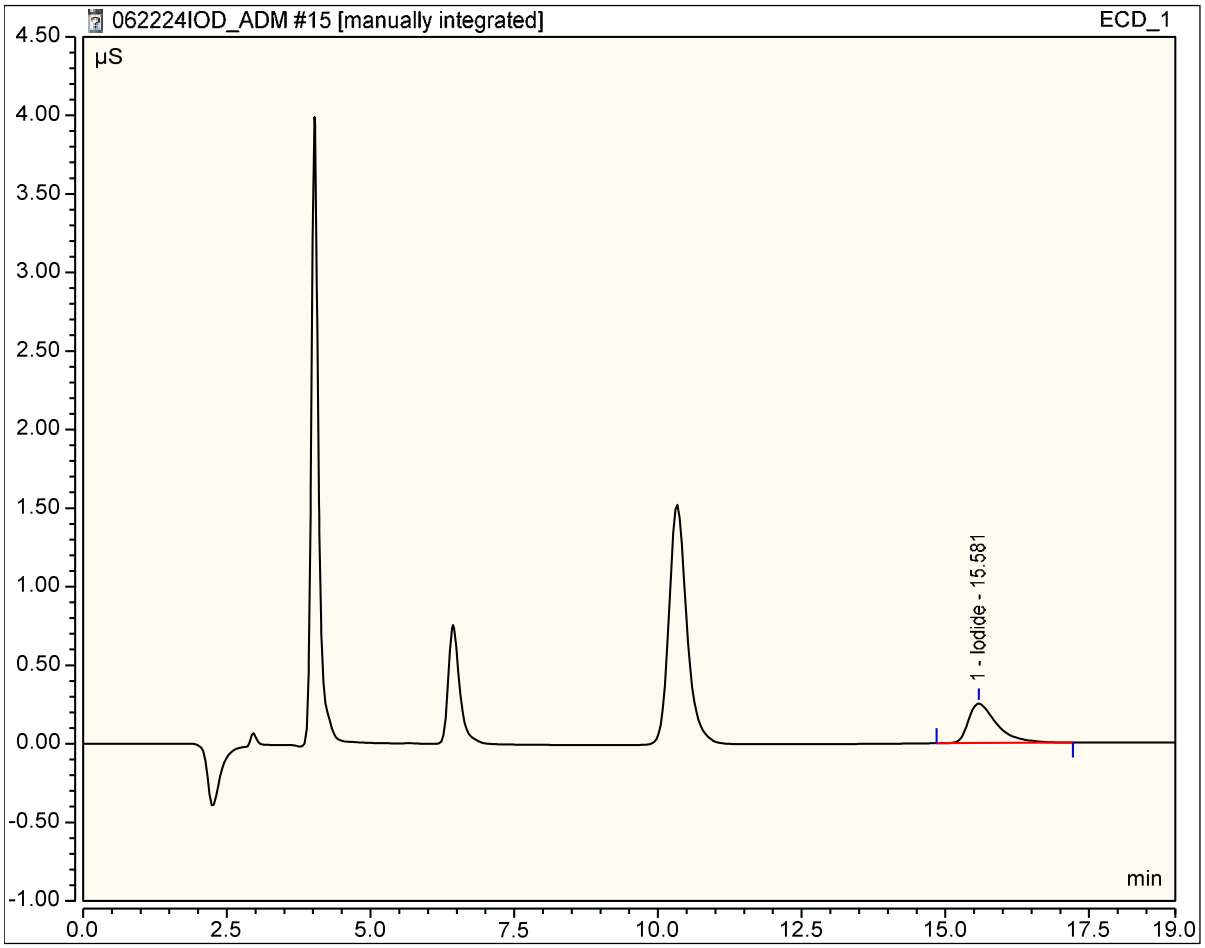
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644658_56520
377680

Sample Name:	**3644658_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

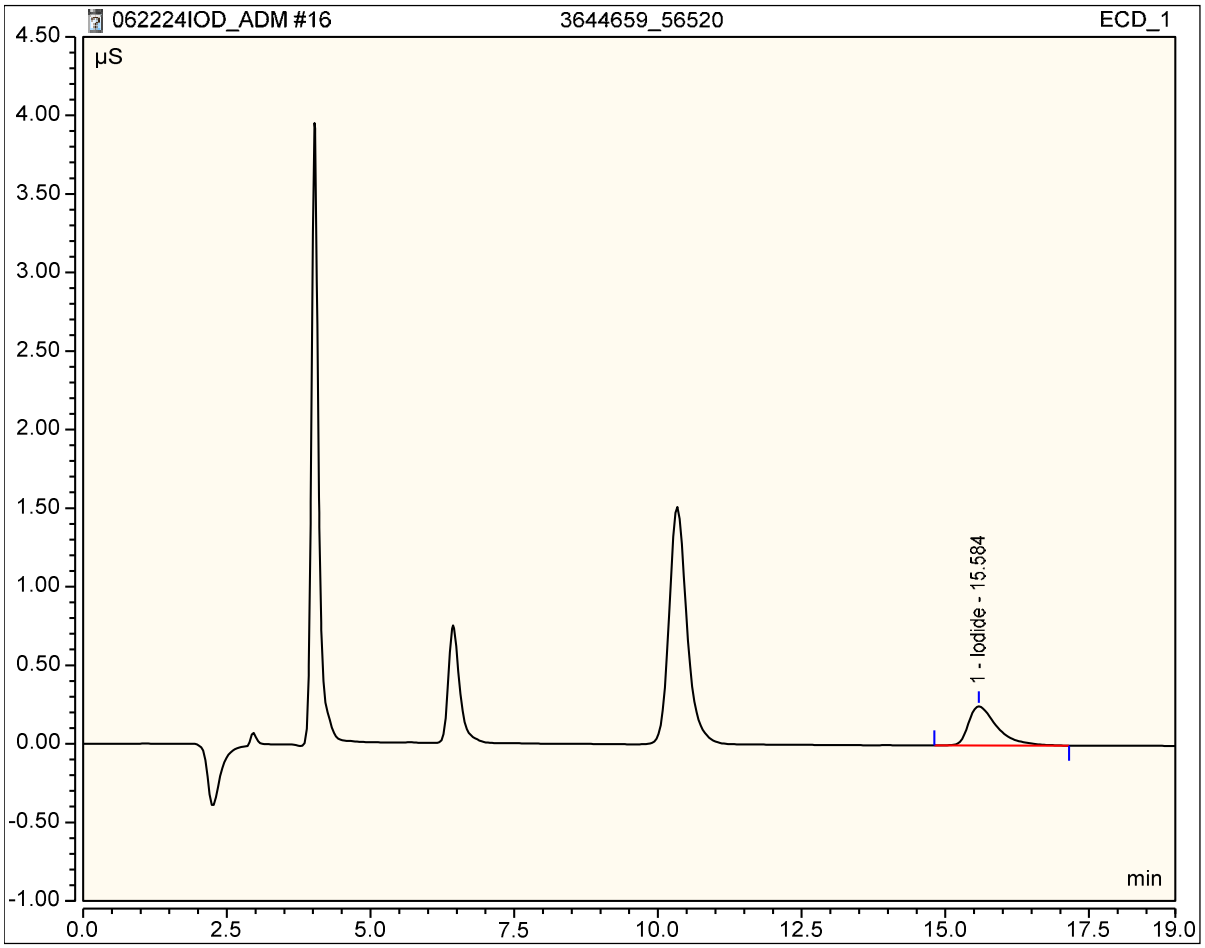
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7448	0.144	0.251	BMB*



3644659_56520
377680

Sample Name:	**3644659_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

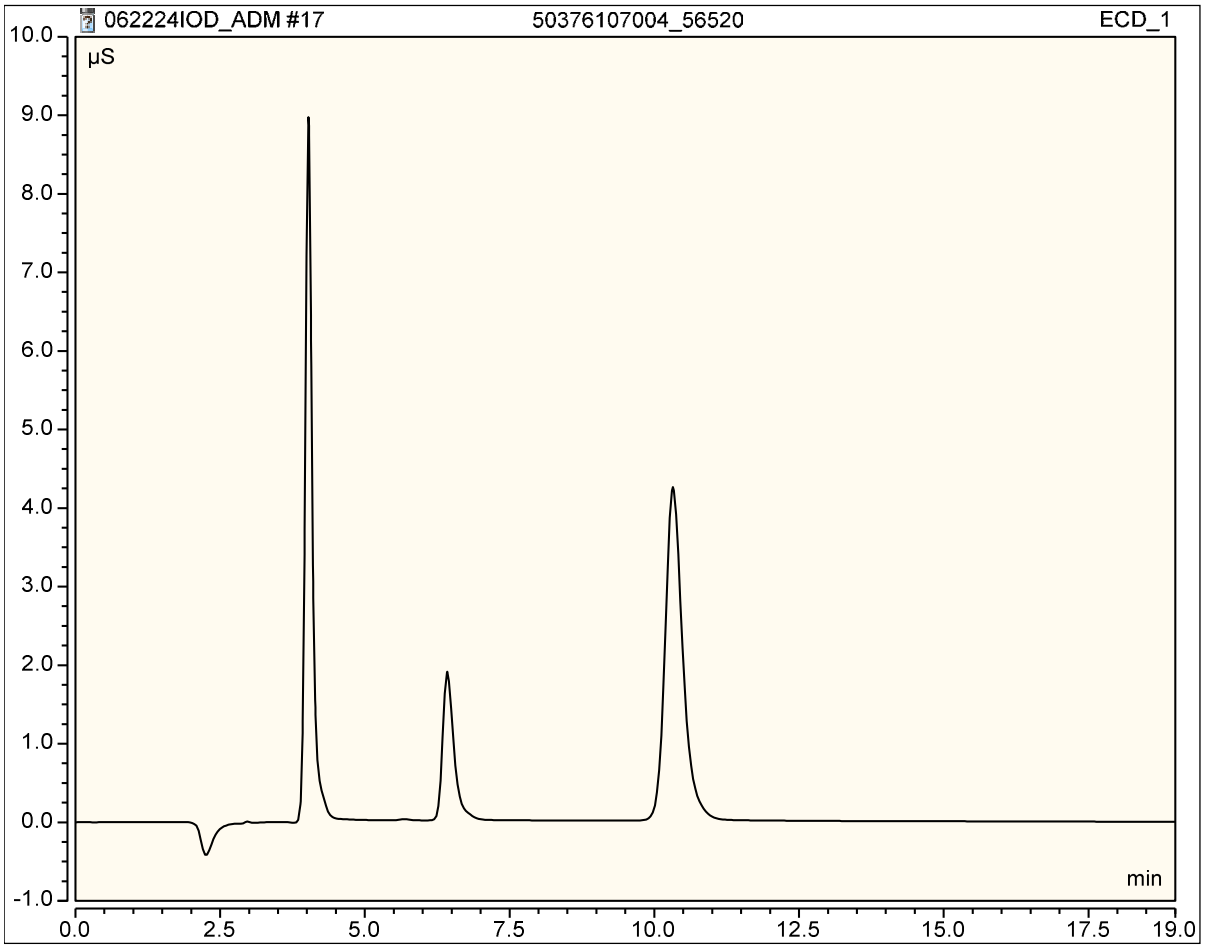
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.6846	0.142	0.248	BMB



50376107004_56520

Sample Name:	**50376107004_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*13*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

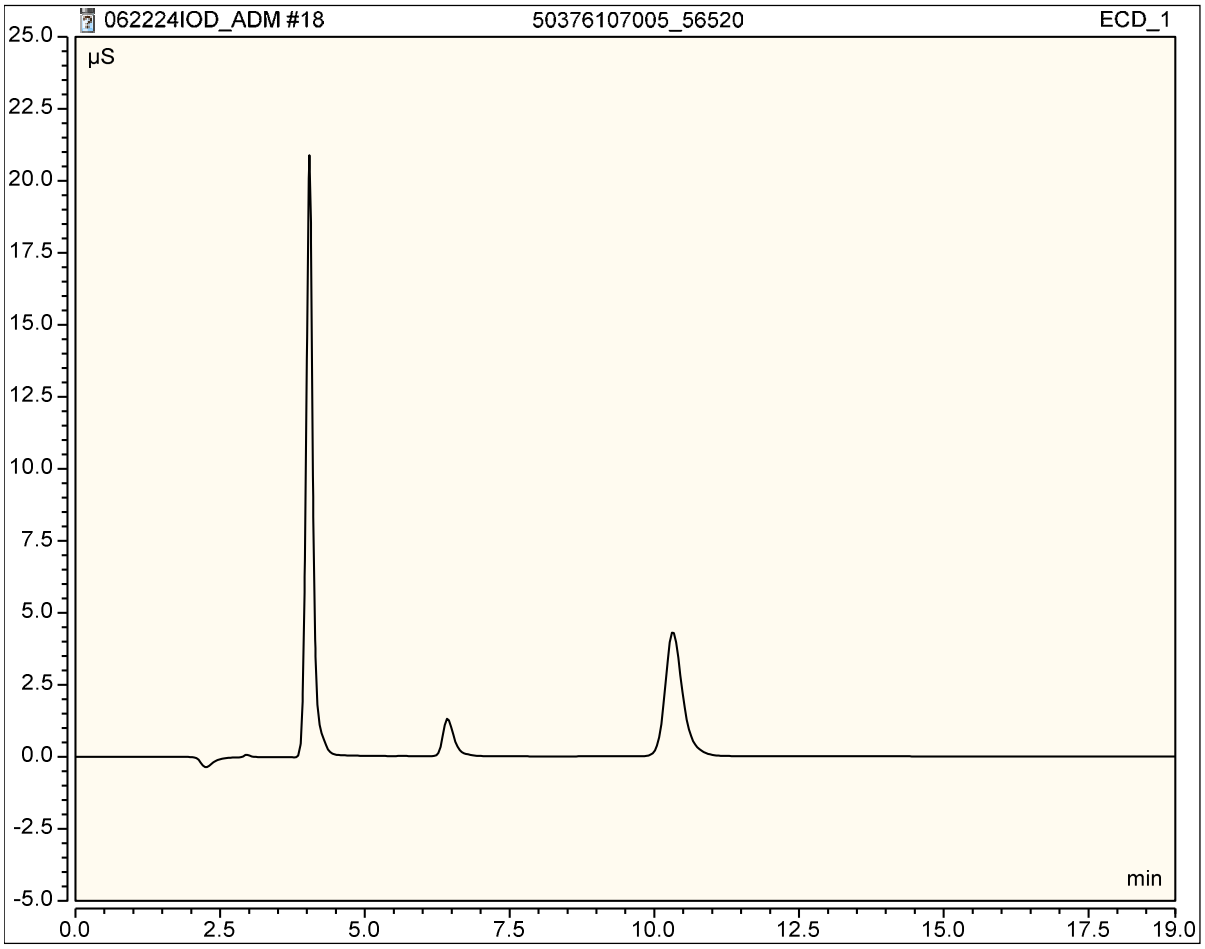
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107005_56520

Sample Name:	**50376107005_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*14*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

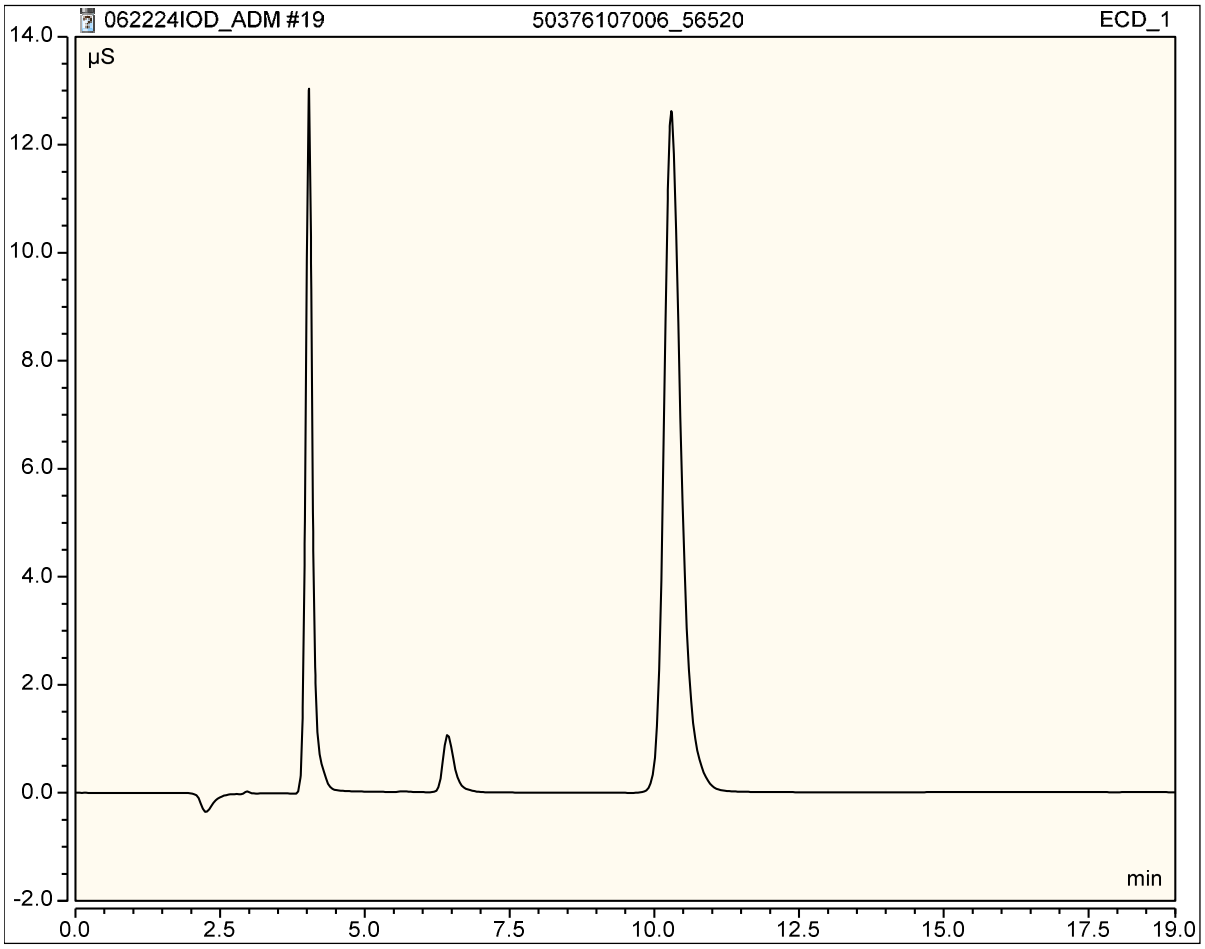
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107006_56520

Sample Name:	**50376107006_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

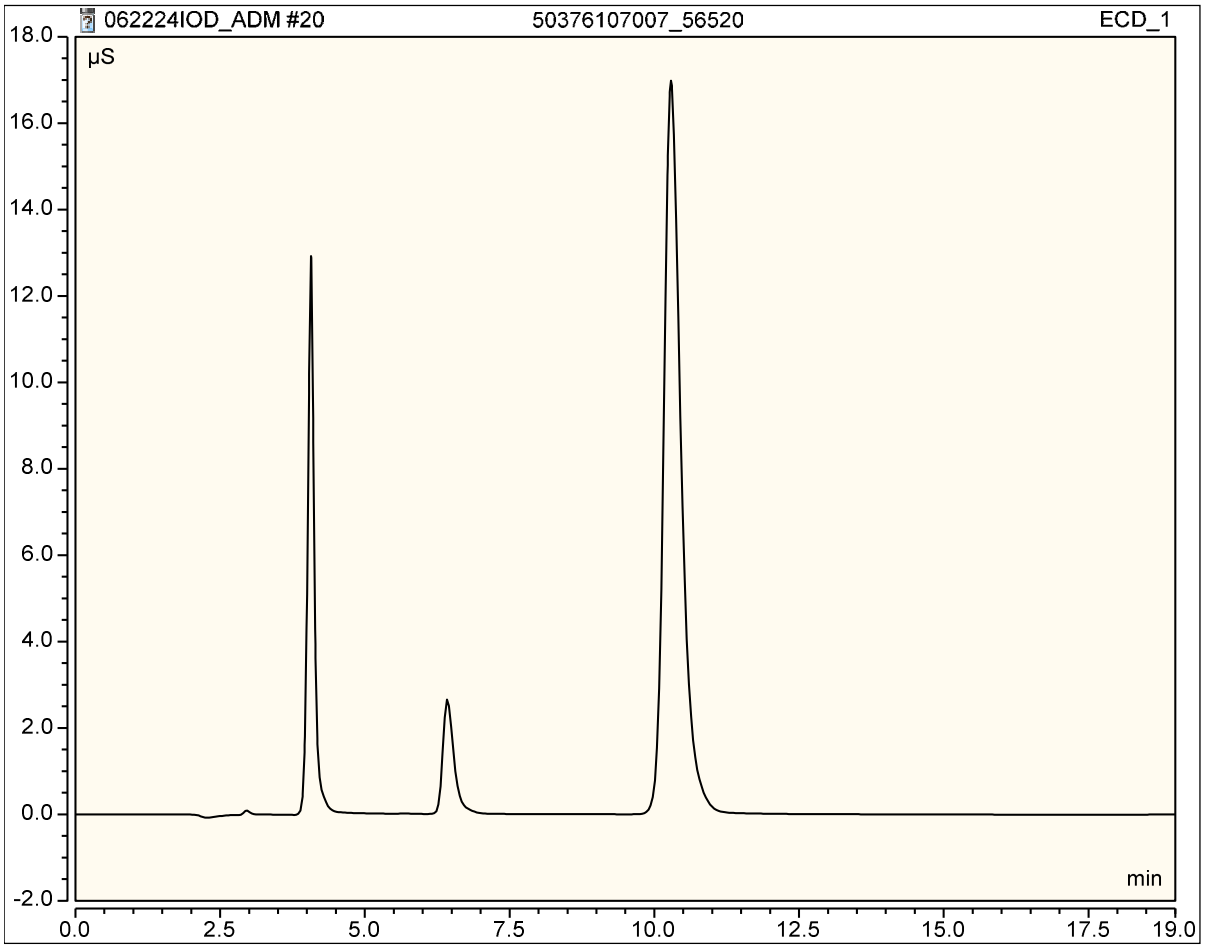
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107007_56520

Sample Name:	**50376107007_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*16*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

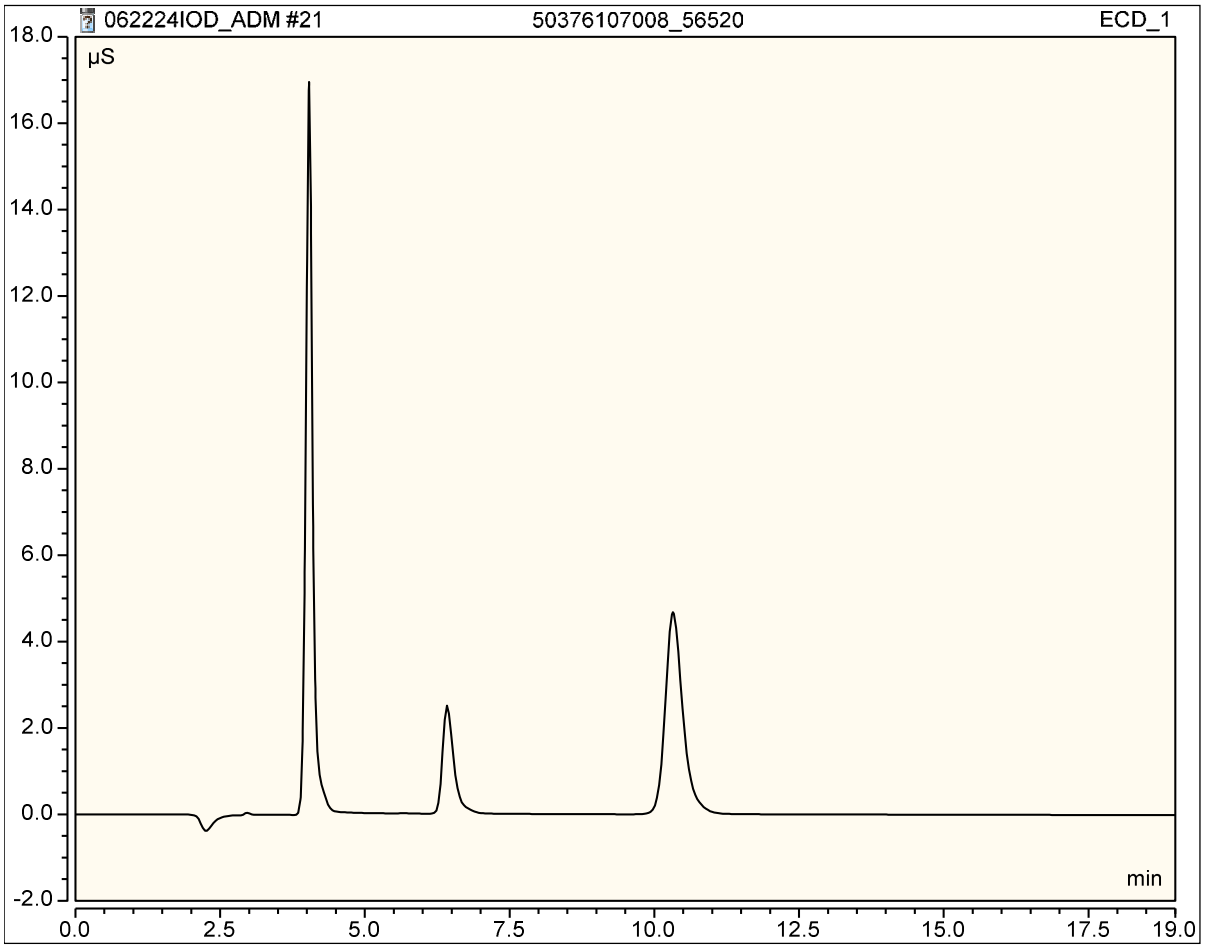
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107008_56520

Sample Name:	**50376107008_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*17*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

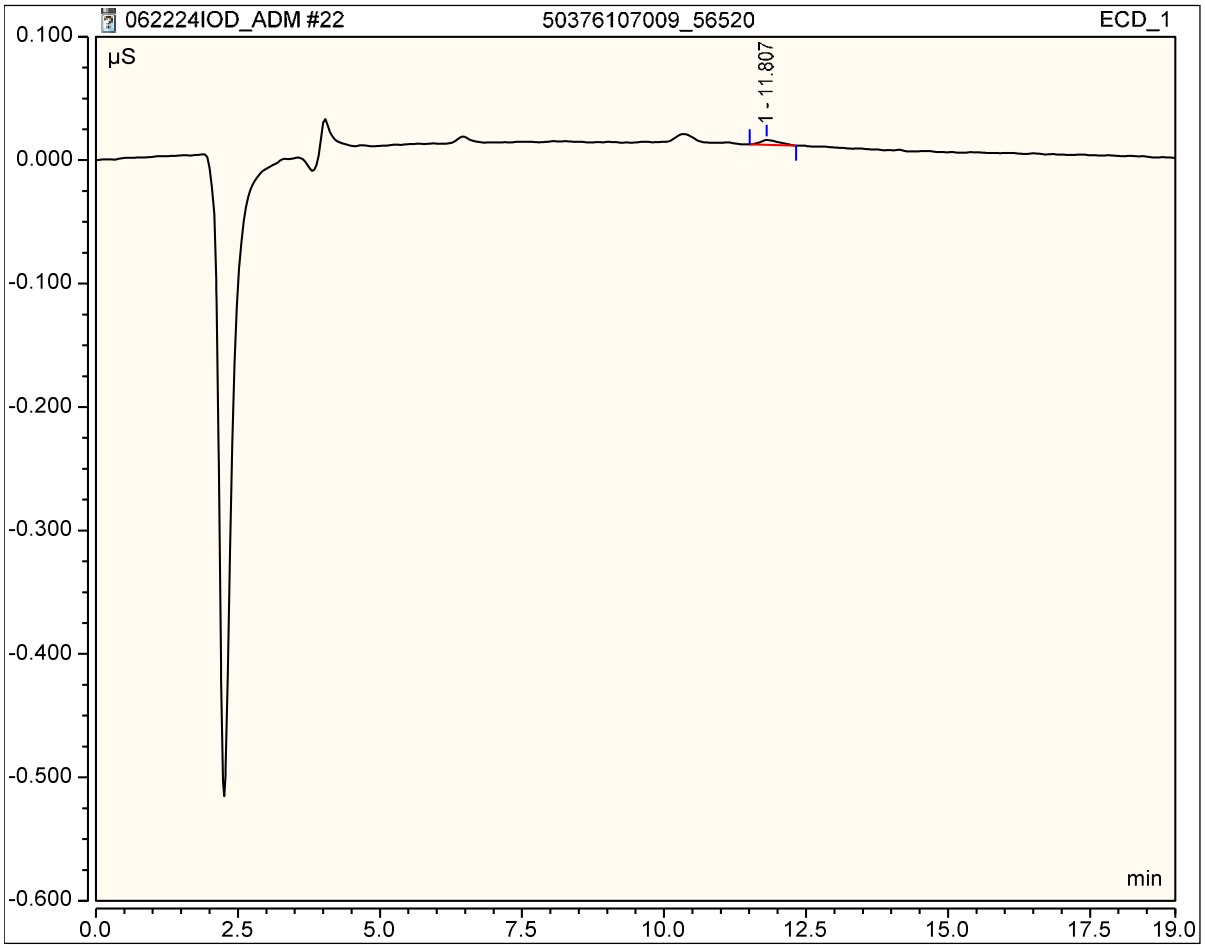
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107009_56520

Sample Name:	**50376107009_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*18*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

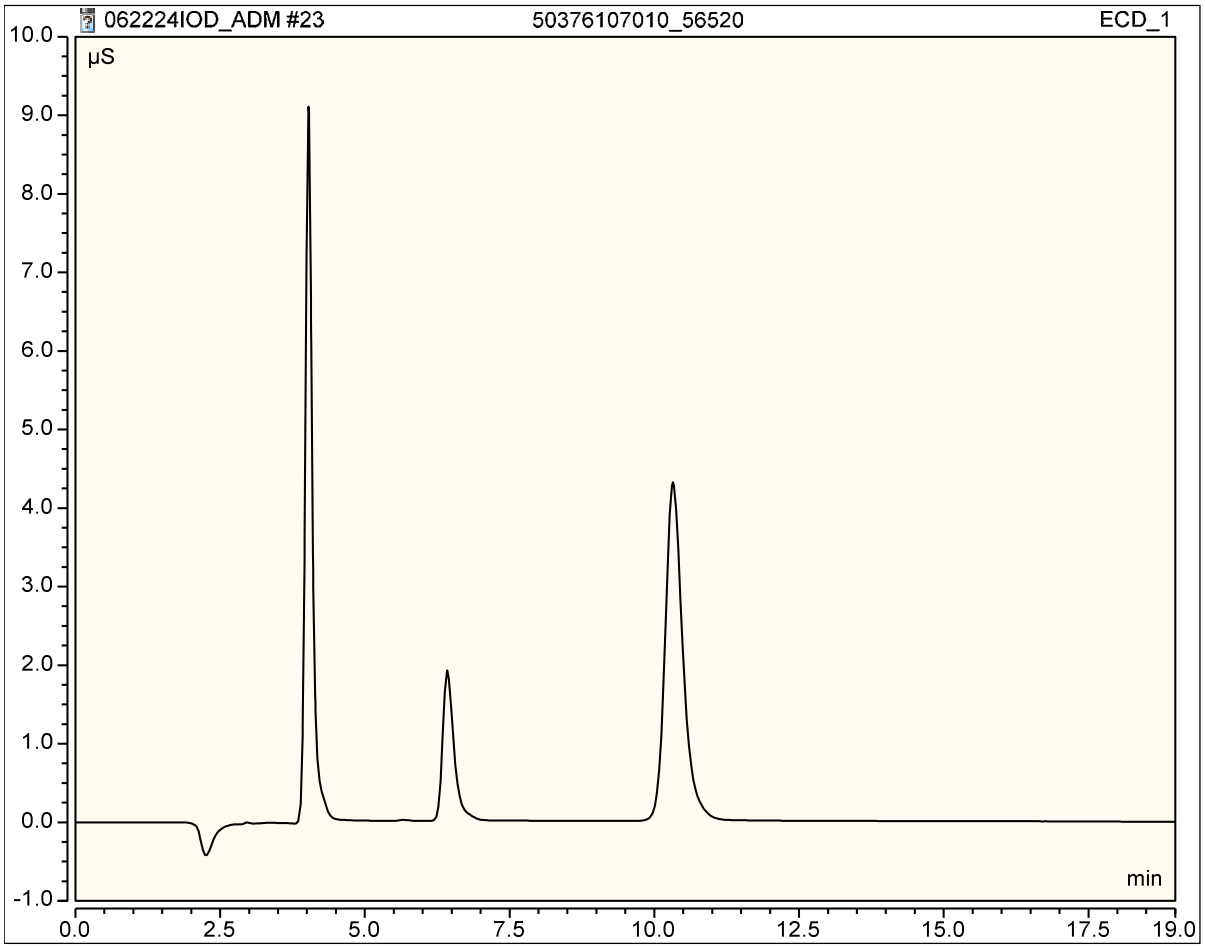
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107010_56520

Sample Name:	**50376107010_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*19*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 23:18**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

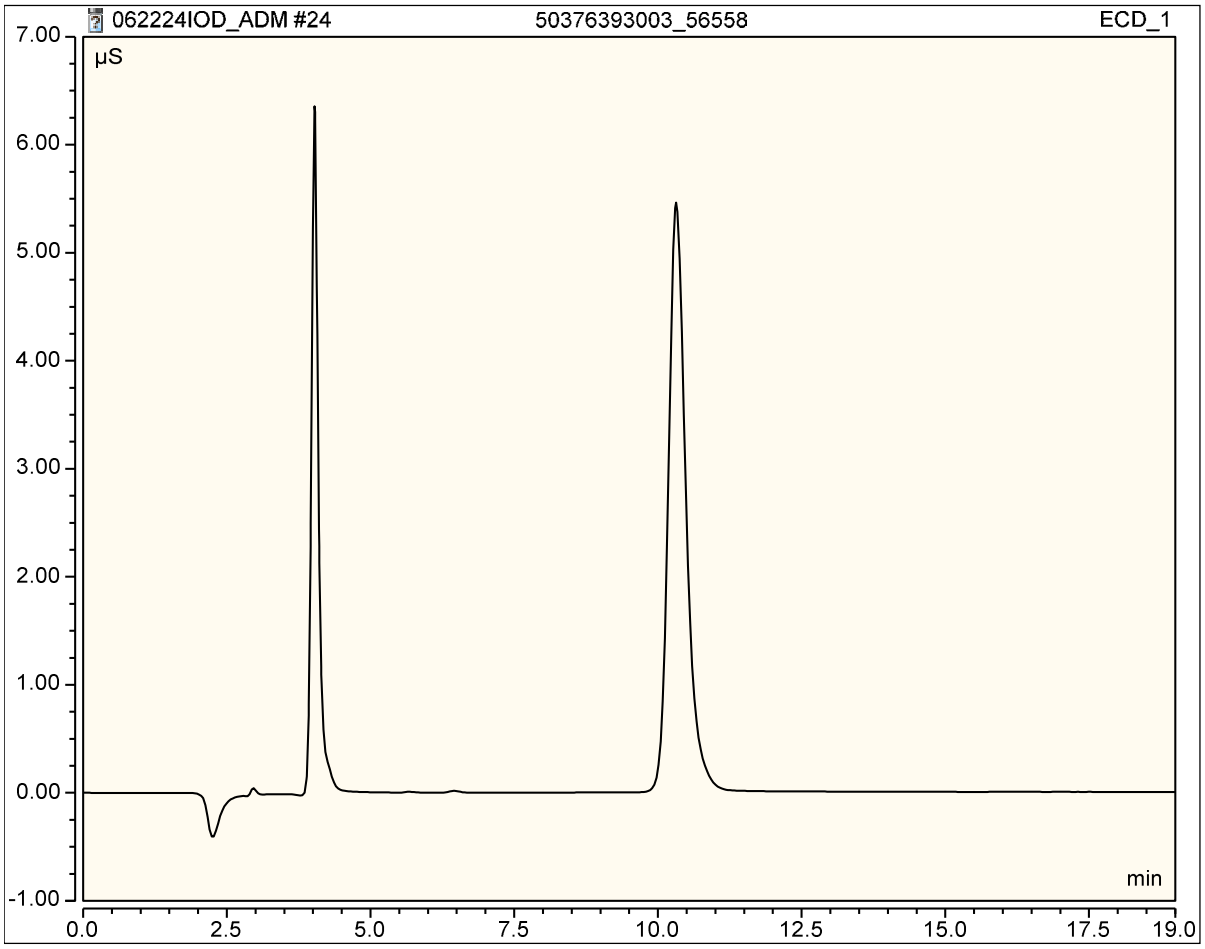
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393003_56558

Sample Name:	**50376393003_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 23:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

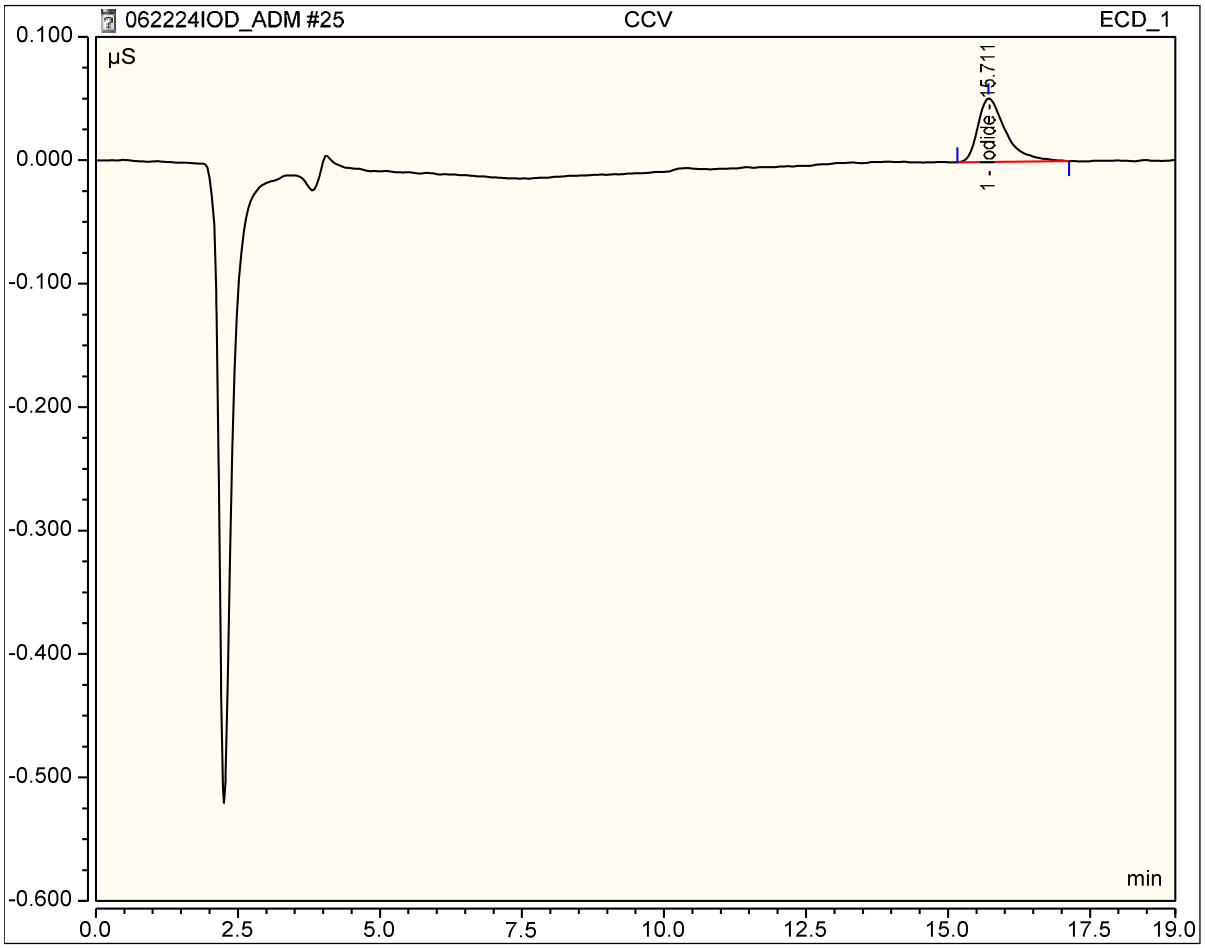
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

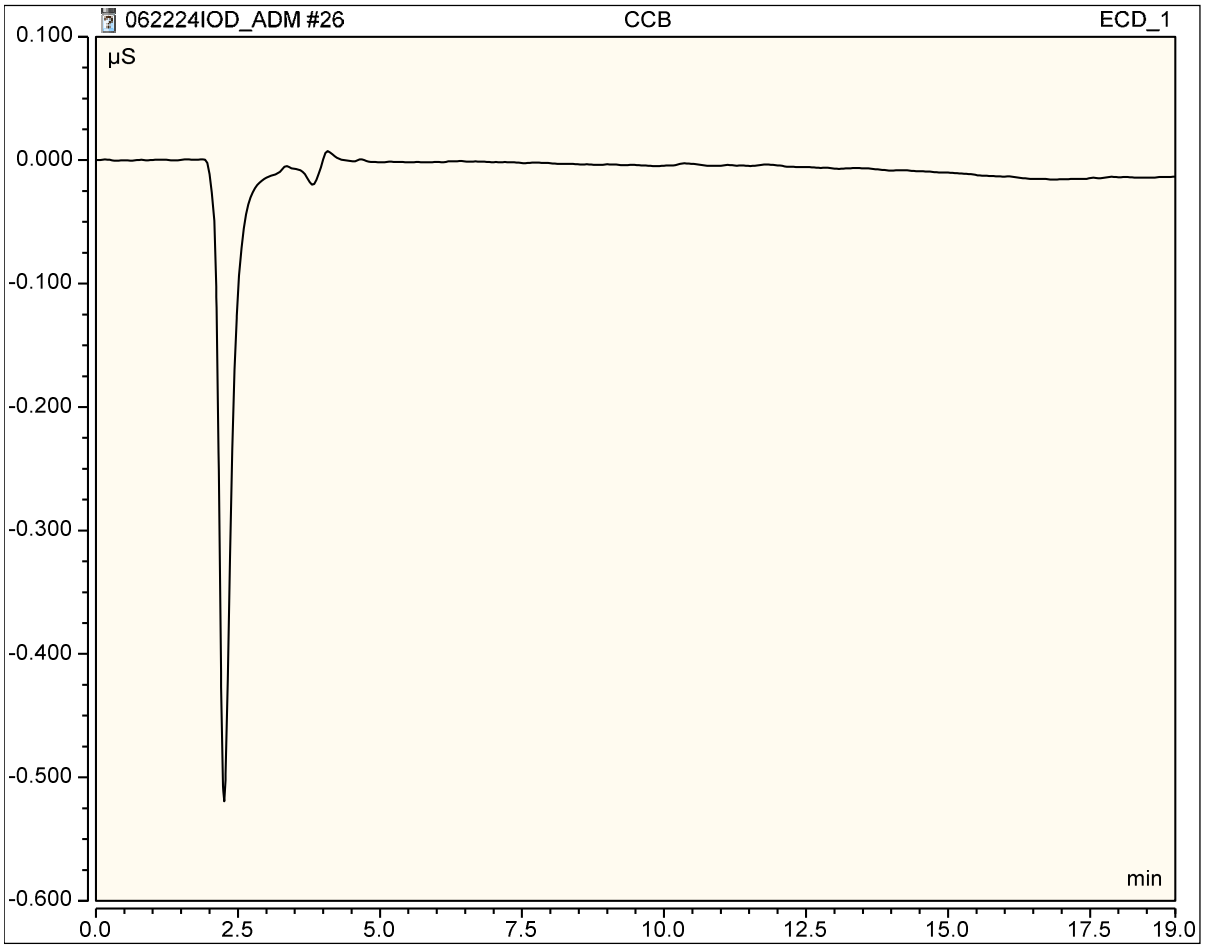
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	1.0189	0.029	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

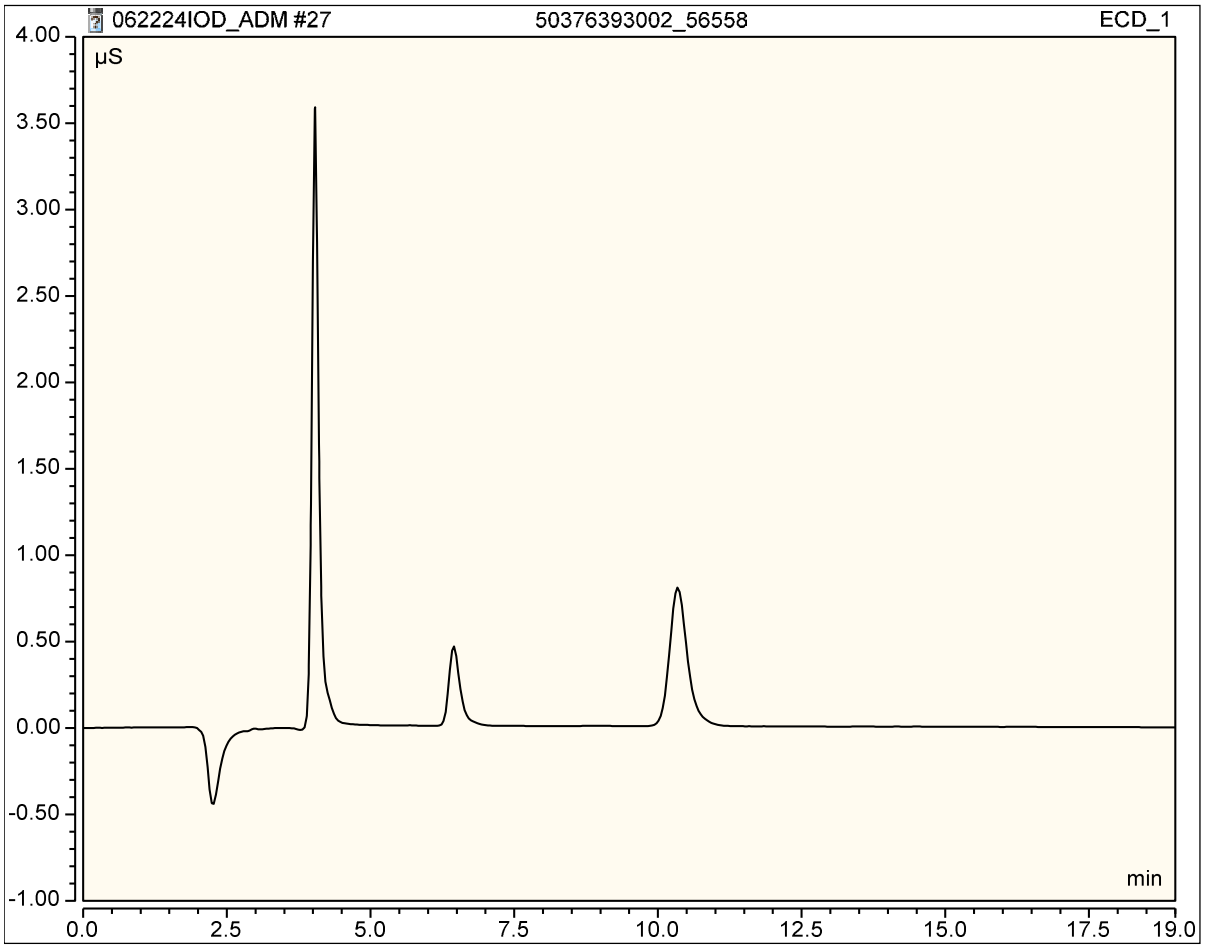
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393002_56558

Sample Name:	**50376393002_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*23*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

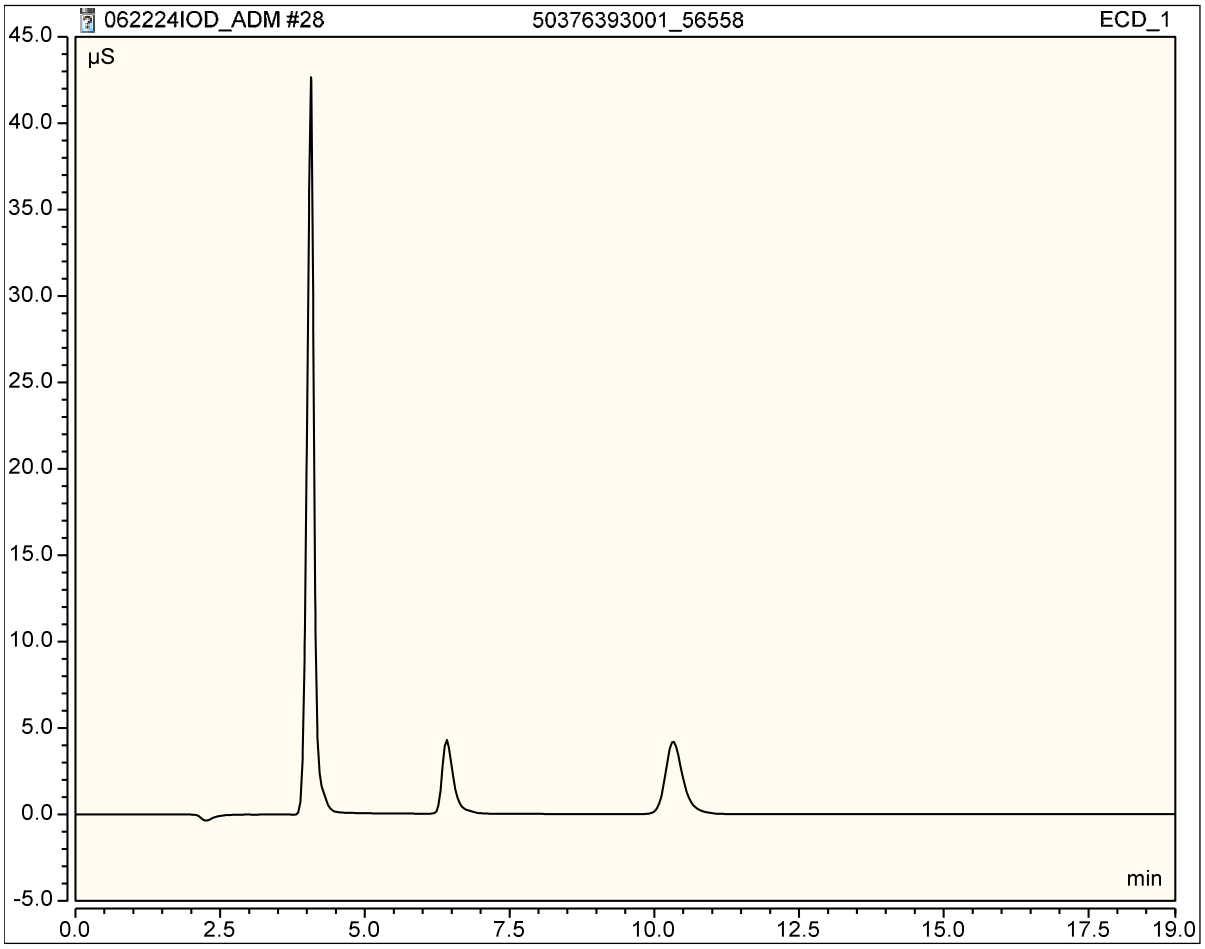
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393001_56558

Sample Name:	**50376393001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*24*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

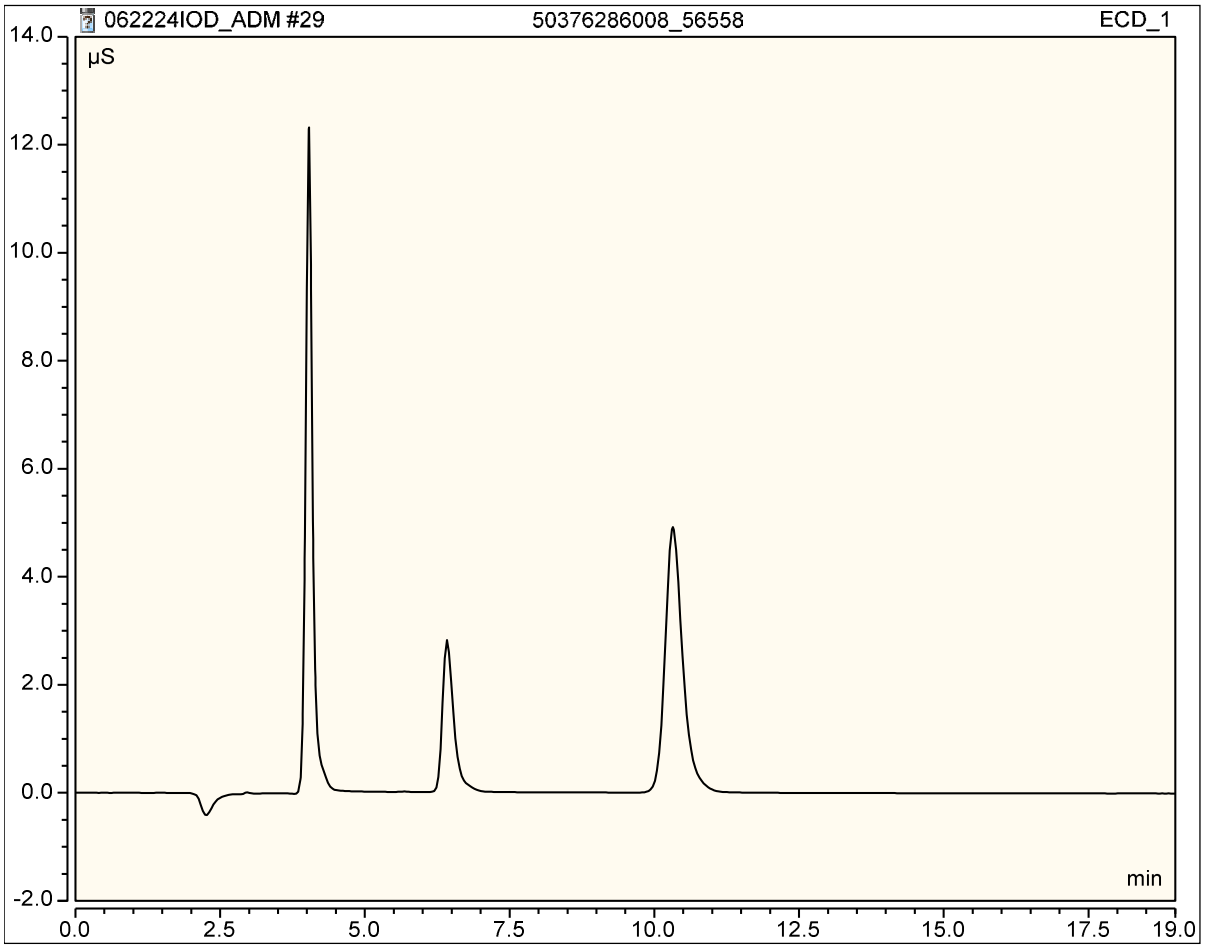
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286008_56558

Sample Name:	**50376286008_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*25*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

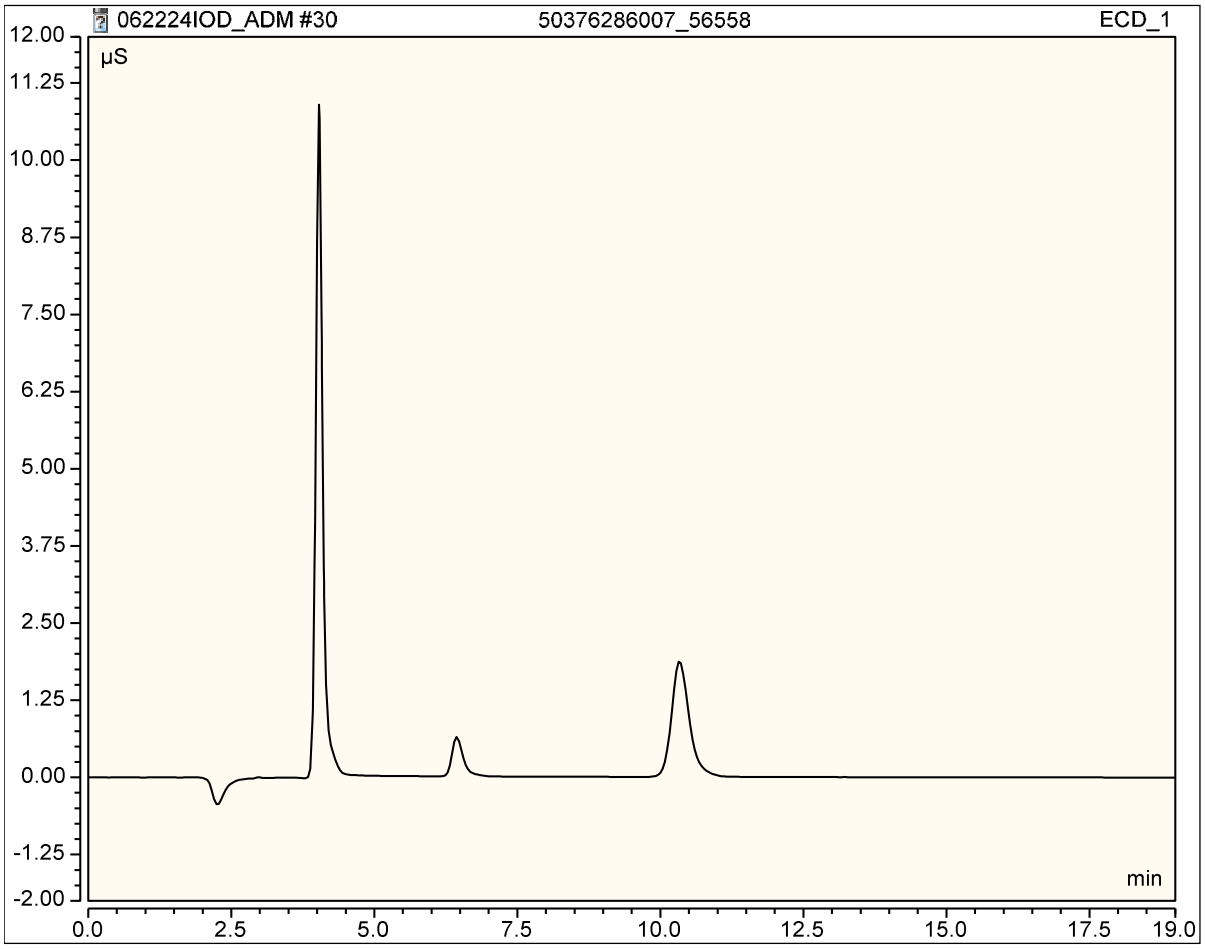
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286007_56558

Sample Name:	**50376286007_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*26*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:51**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

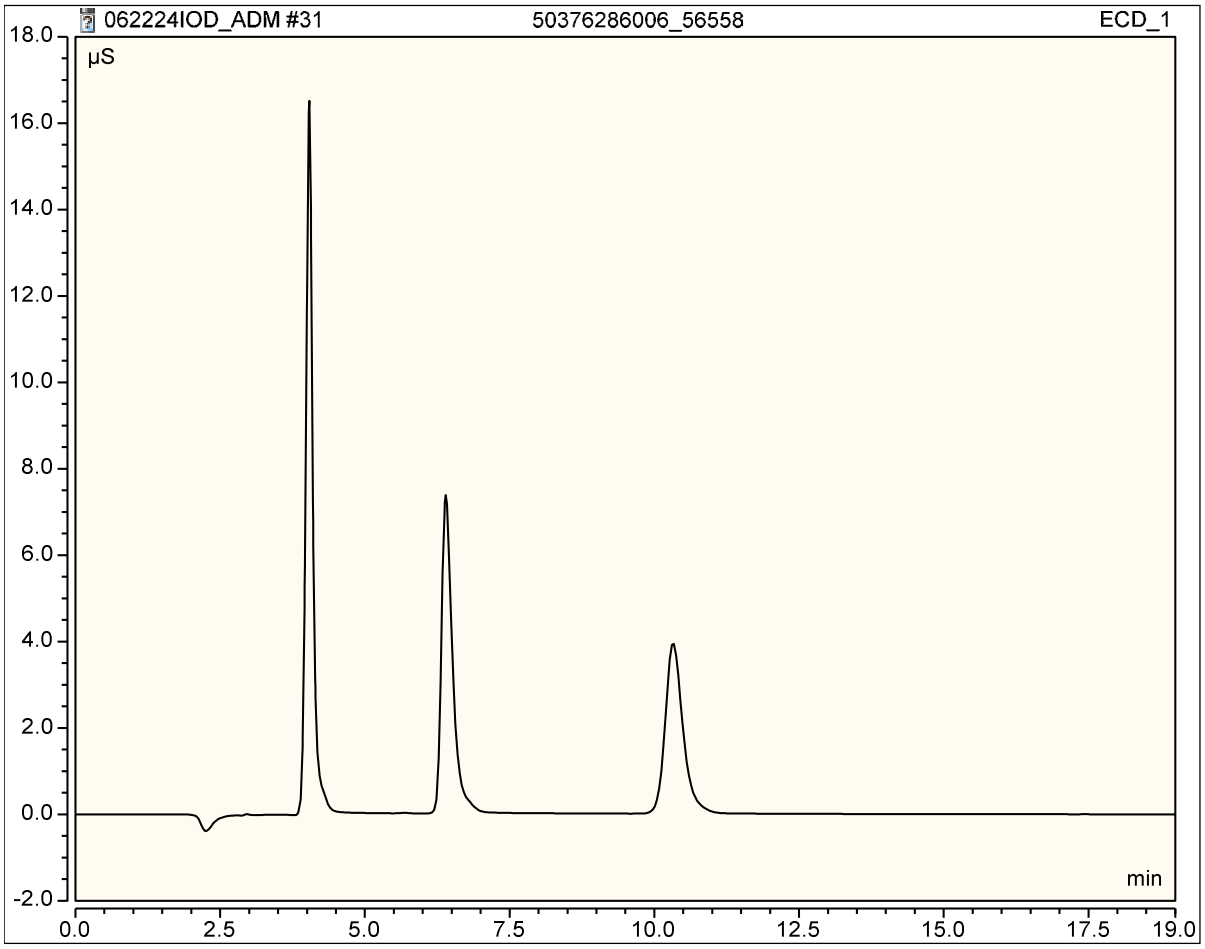
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286006_56558

Sample Name:	**50376286006_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*27*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:13**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

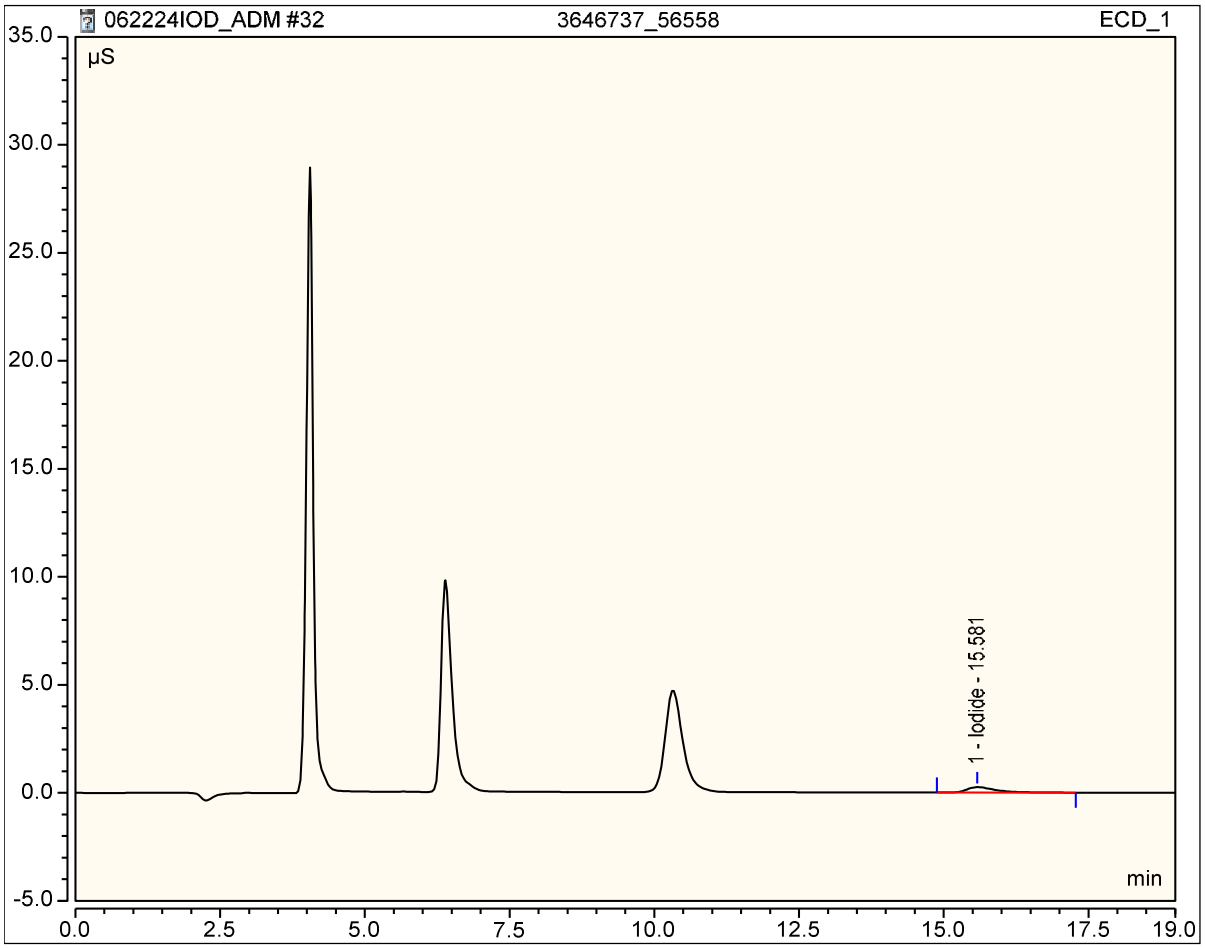
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3646737_56558
377680

Sample Name:	**3646737_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*28*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

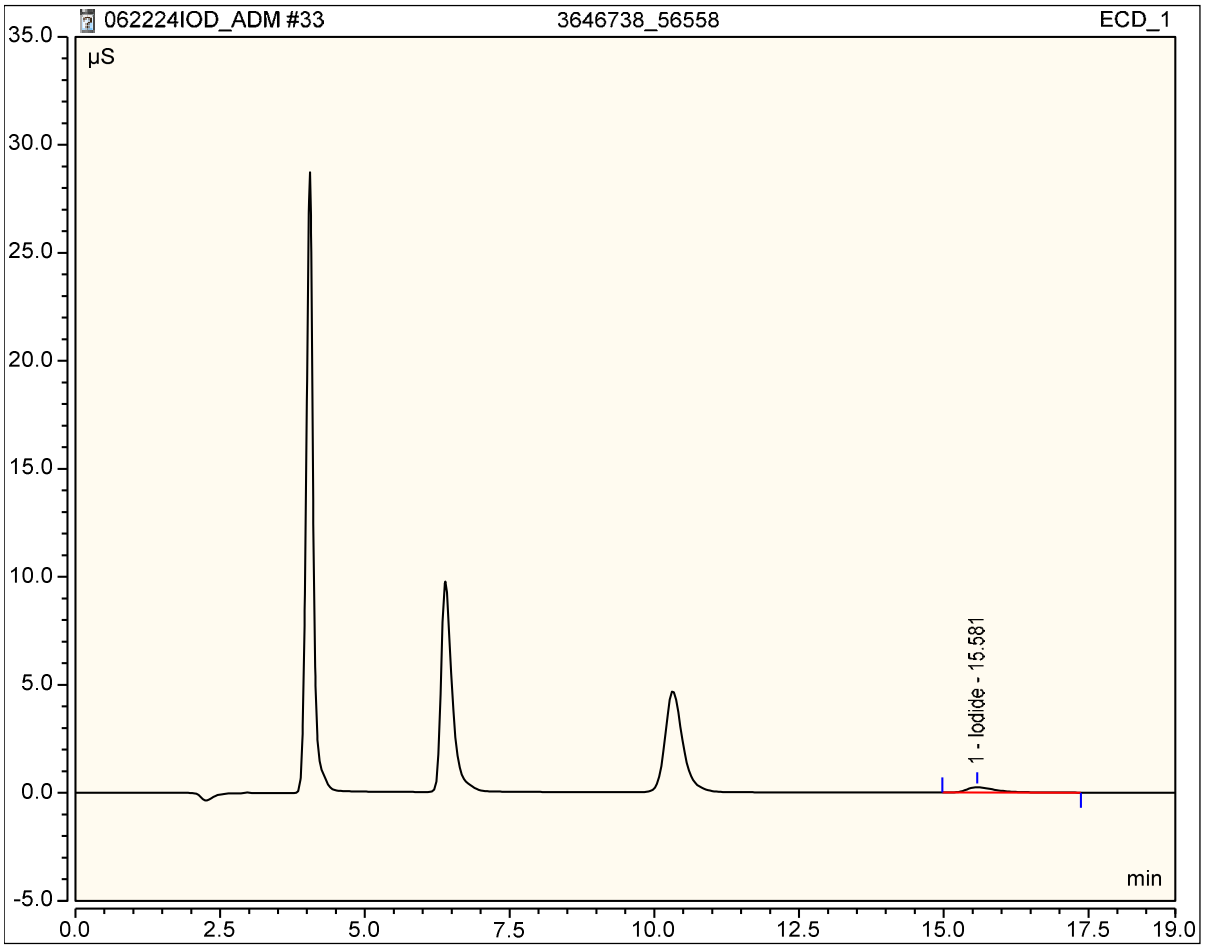
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7524	0.144	0.250	BMB



3646738_56558
377680

Sample Name:	**3646738_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*29*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

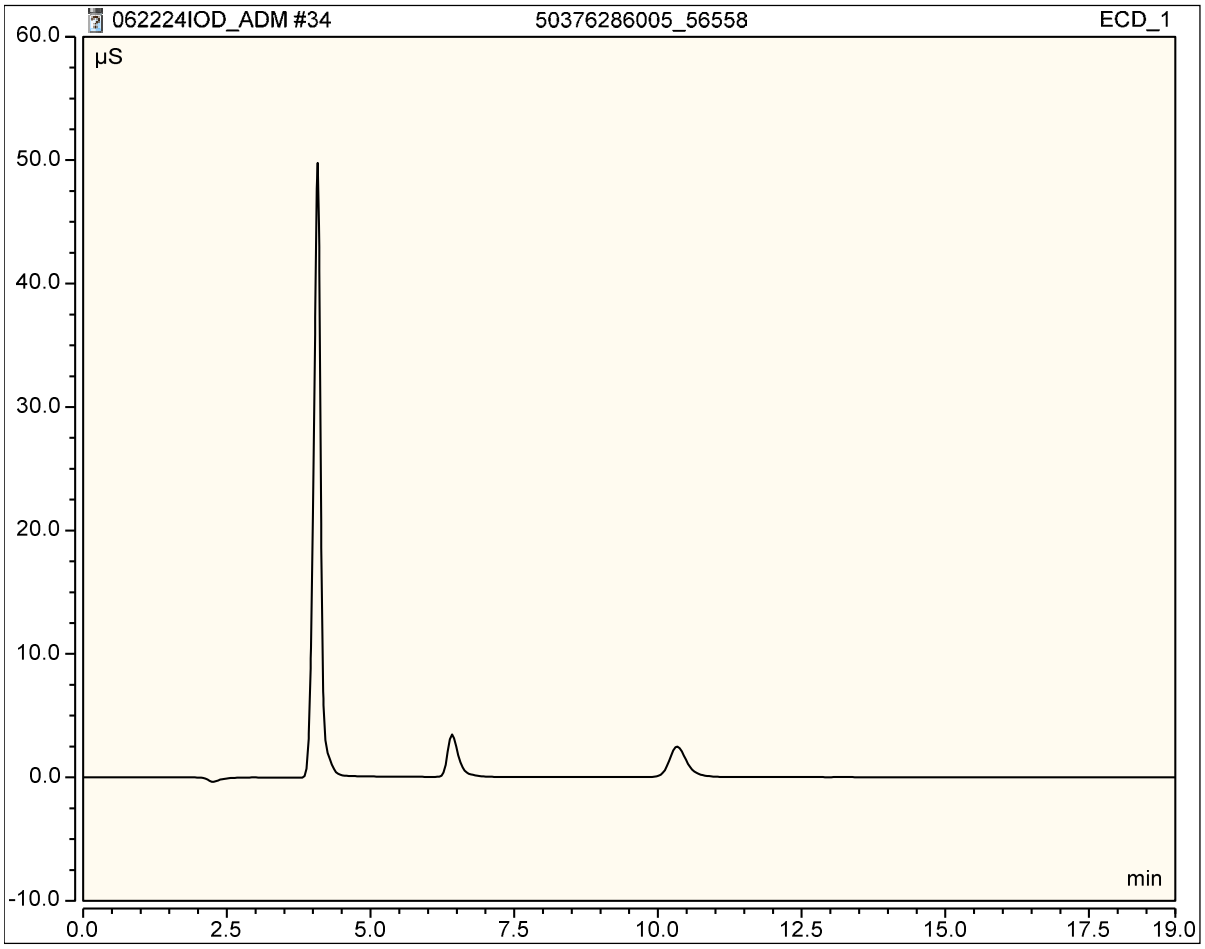
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7127	0.143	0.249	BMB



50376286005_56558

Sample Name:	**50376286005_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*30*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 03:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

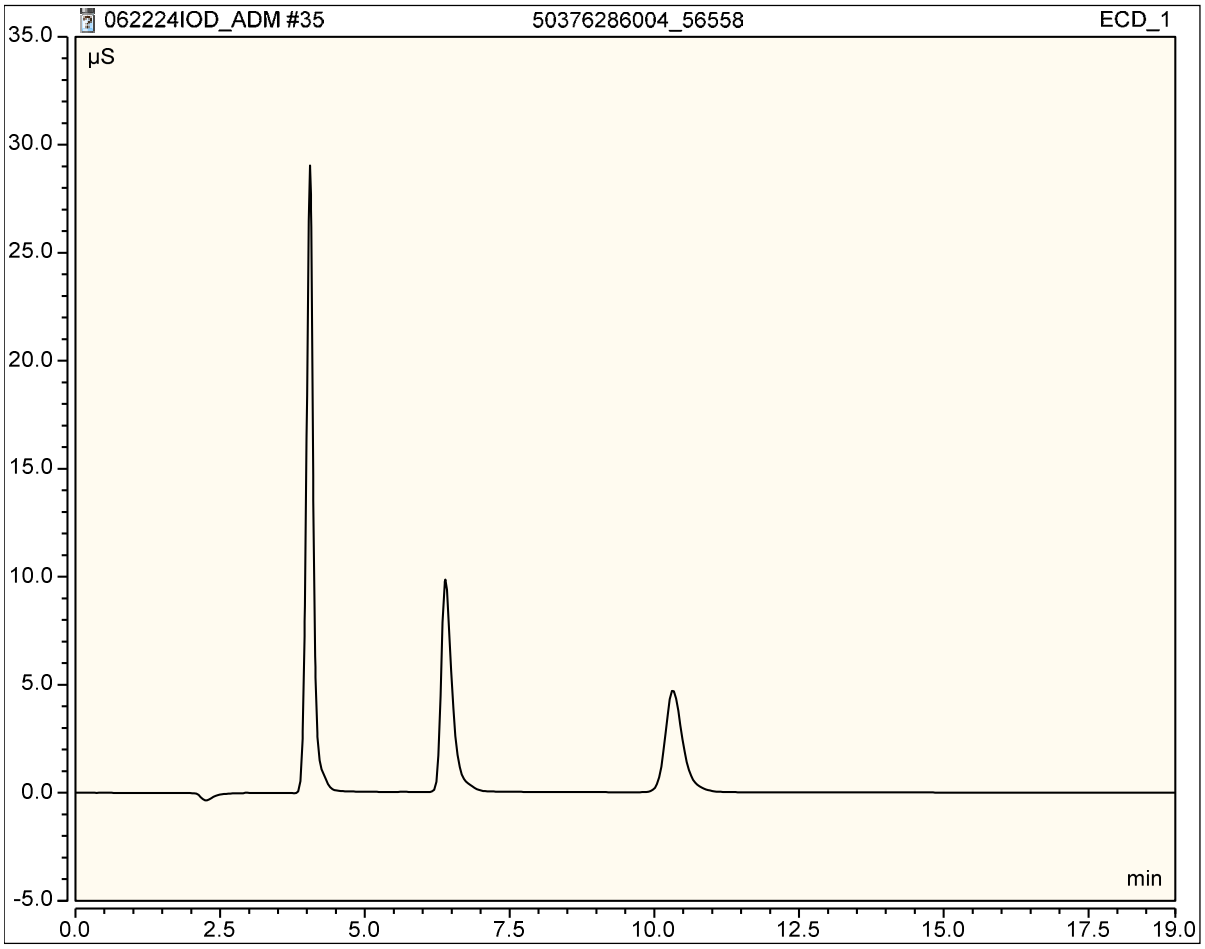
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286004_56558

Sample Name:	**50376286004_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*31*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 03:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

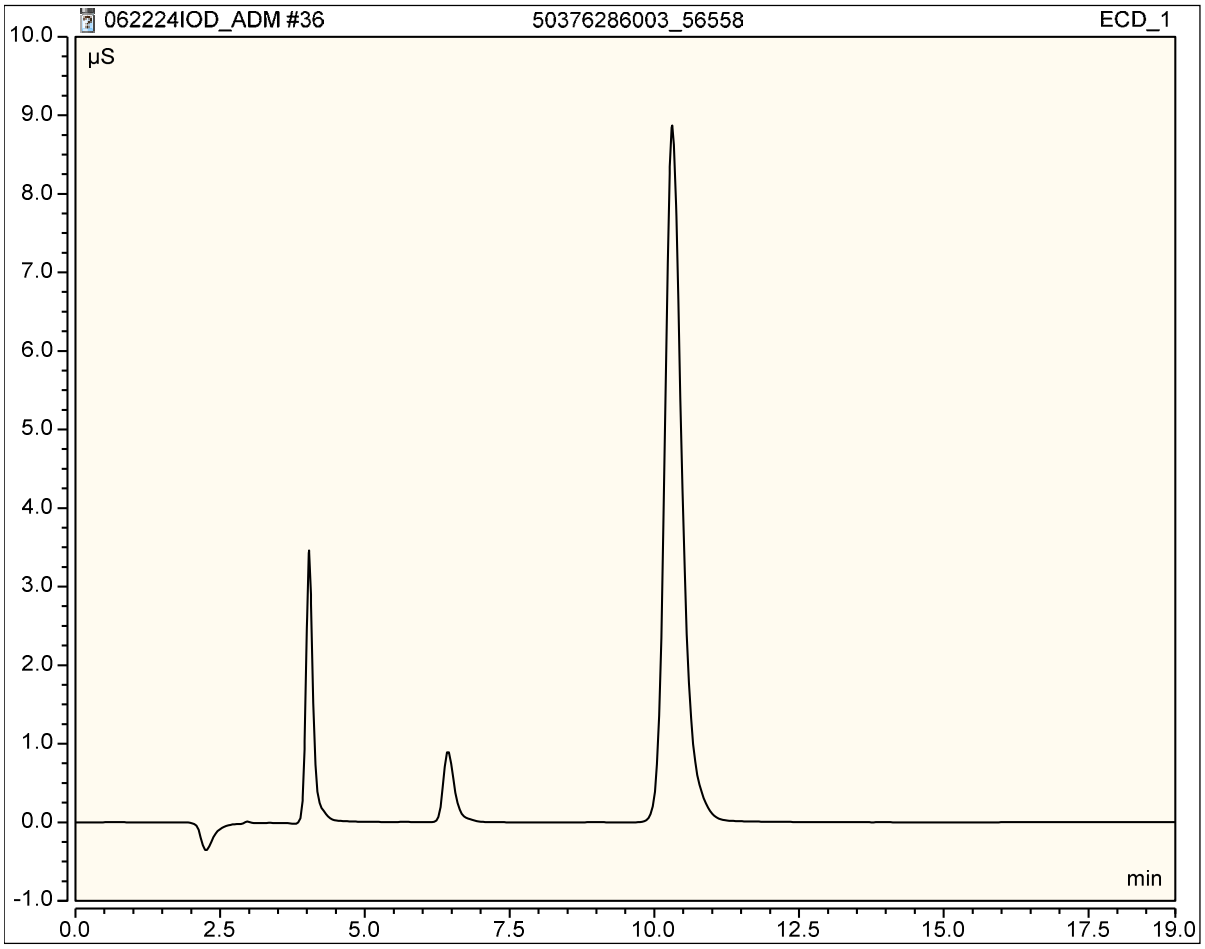
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286003_56558

Sample Name:	**50376286003_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*32*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

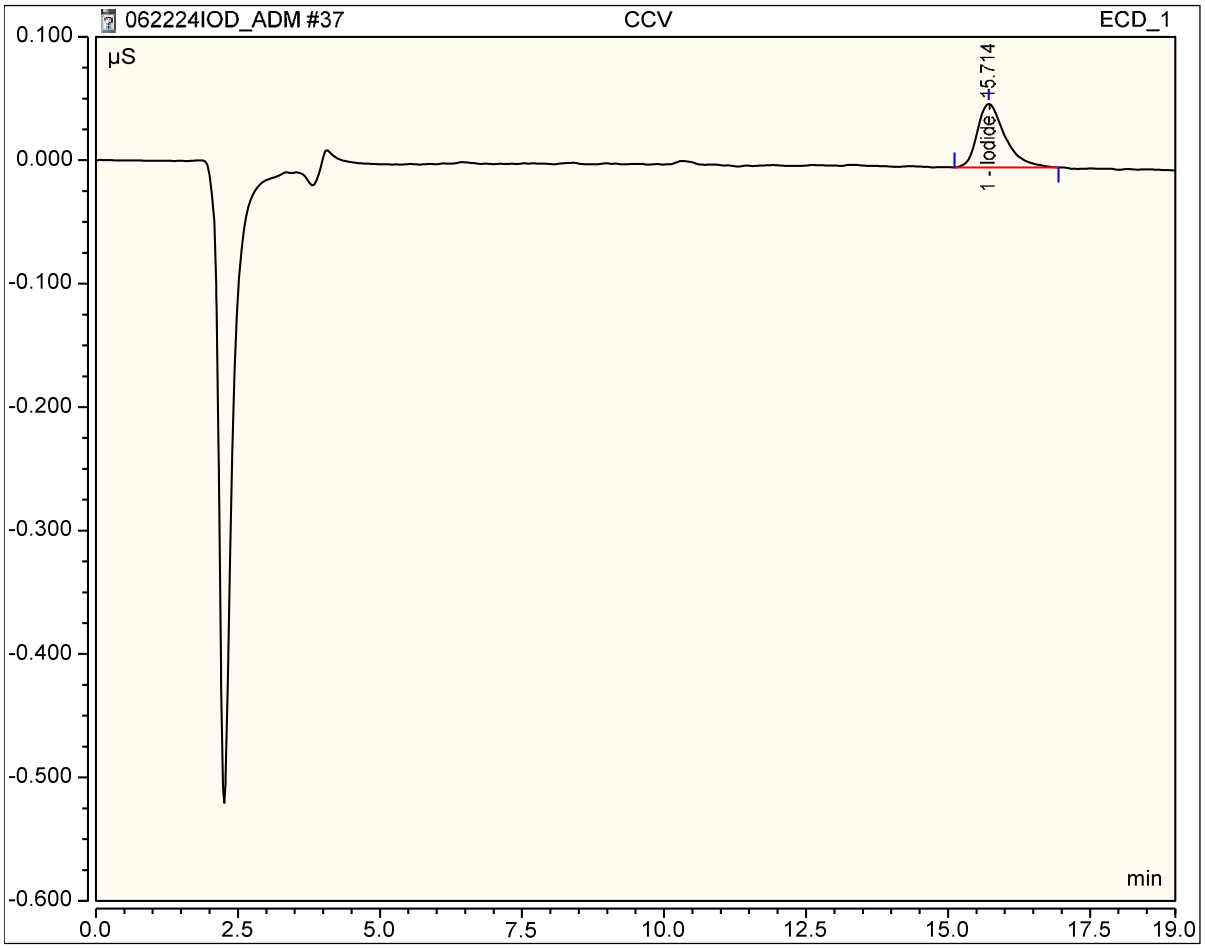
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

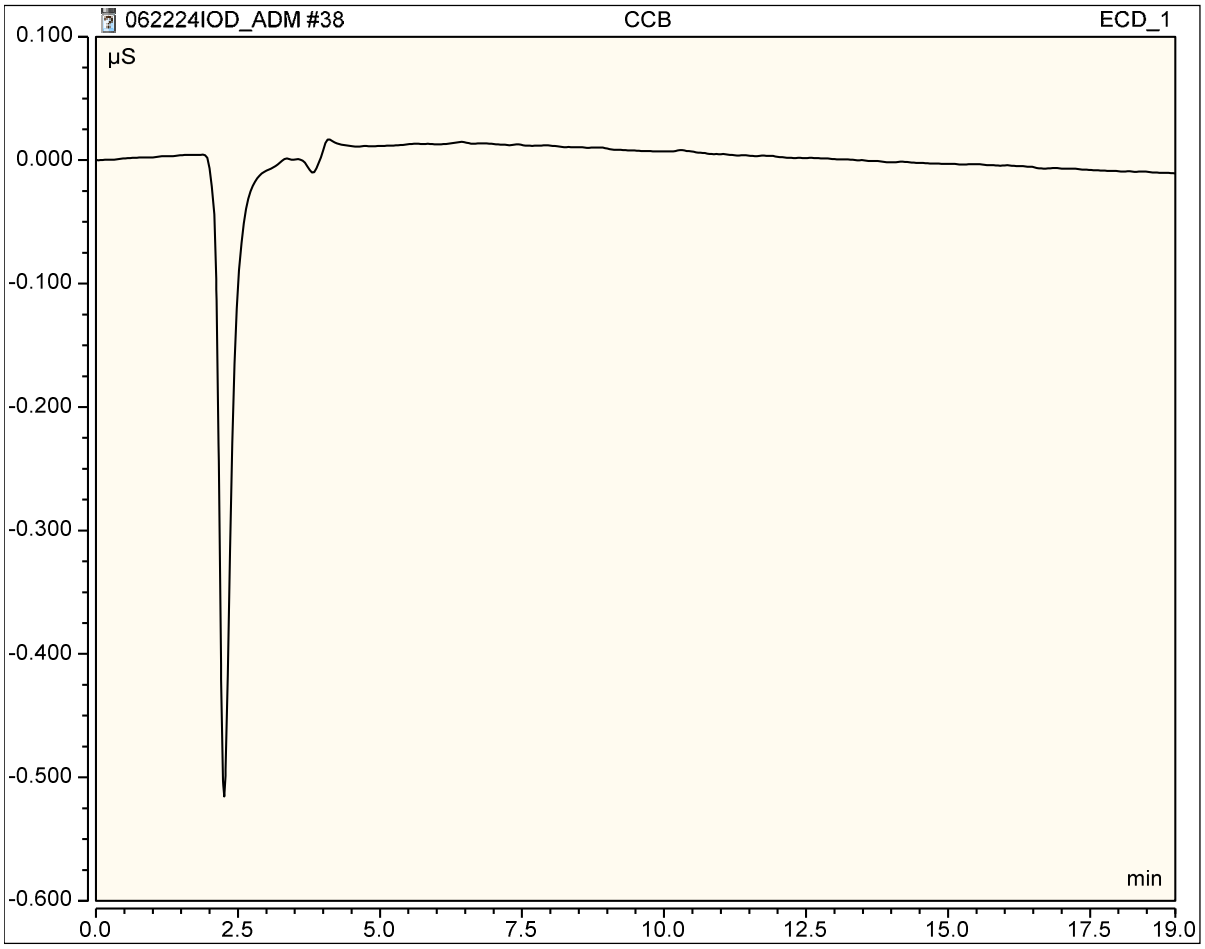
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	1.0164	0.029	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:46**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

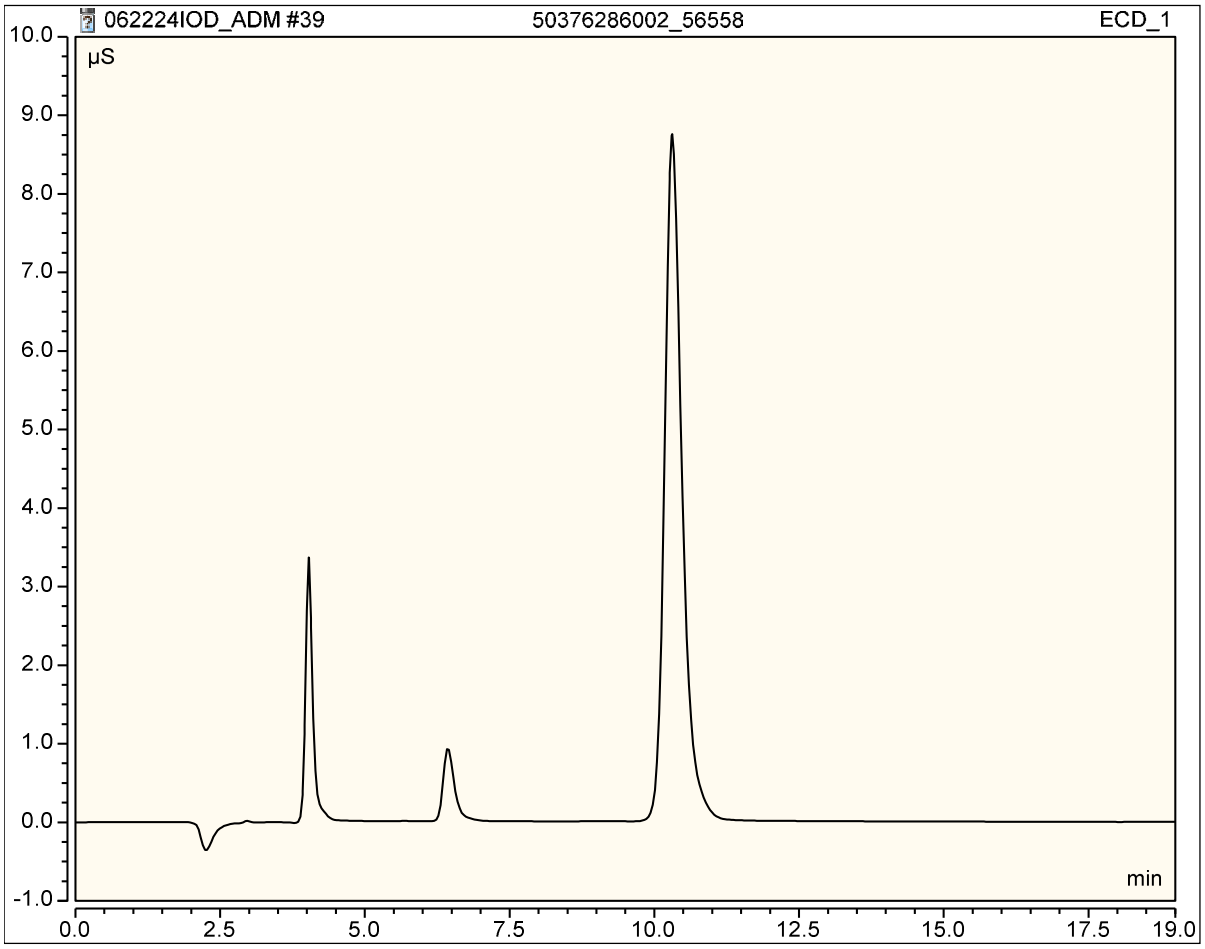
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286002_56558

Sample Name:	**50376286002_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:08**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

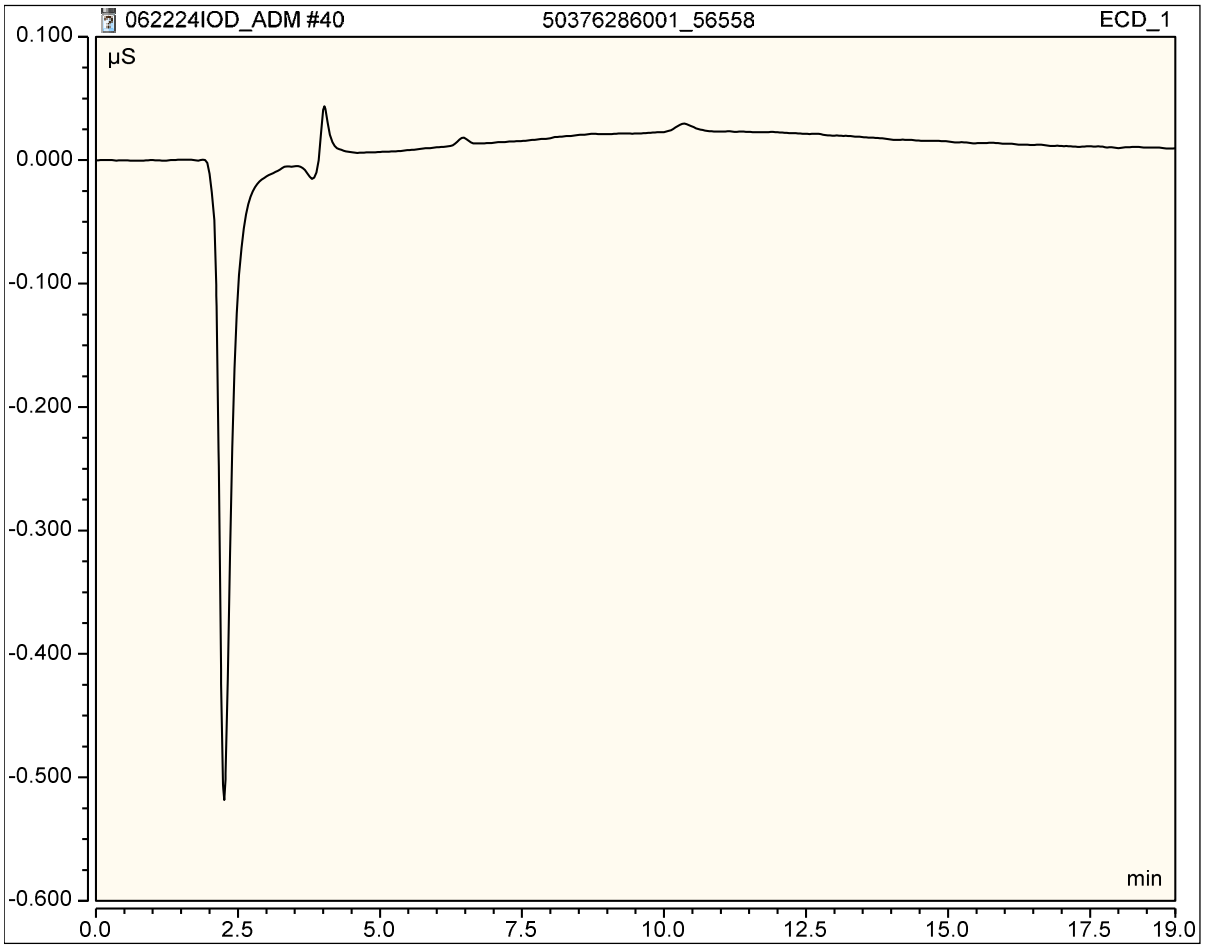
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286001_56558

Sample Name:	**50376286001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:30**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

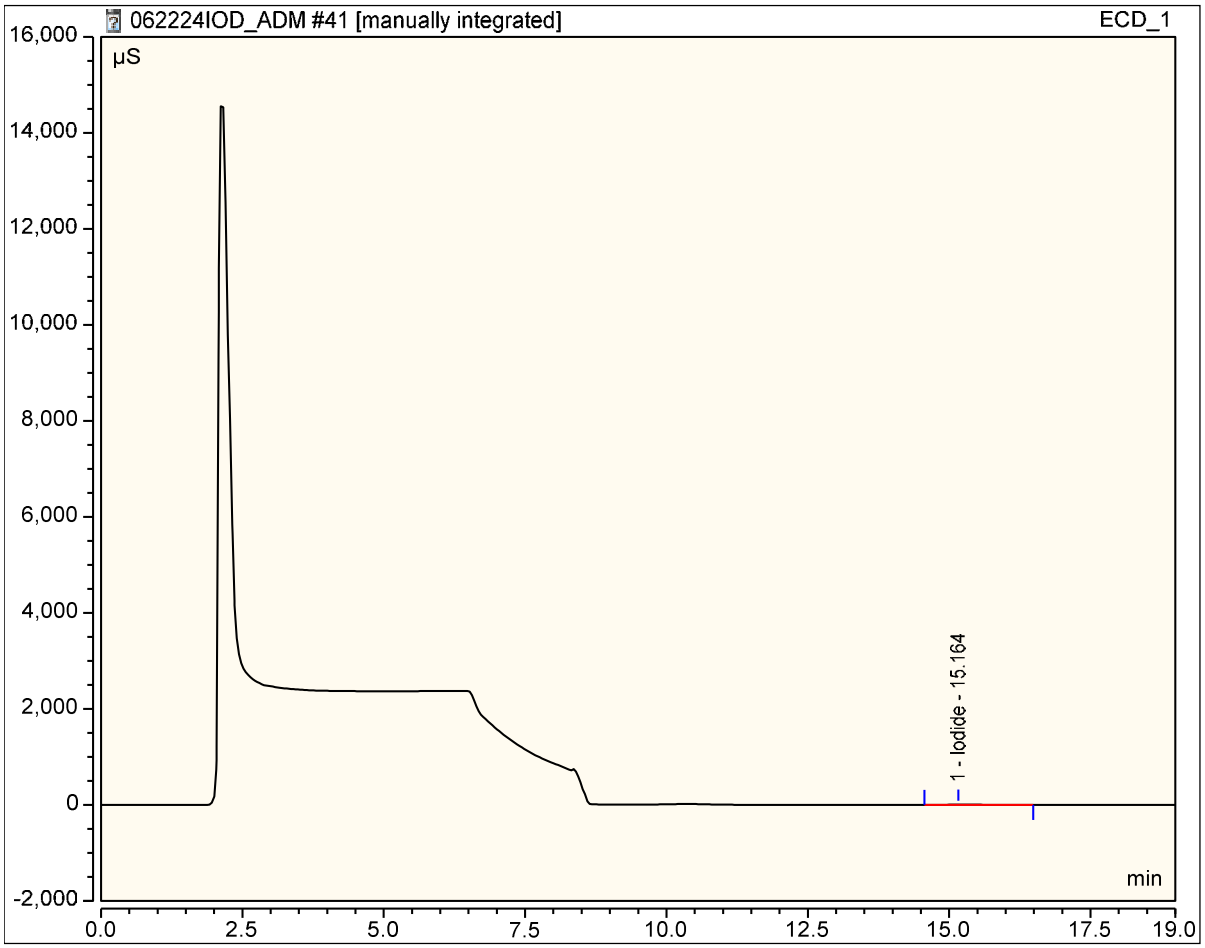
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376388001_56558

Sample Name:	**50376388001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

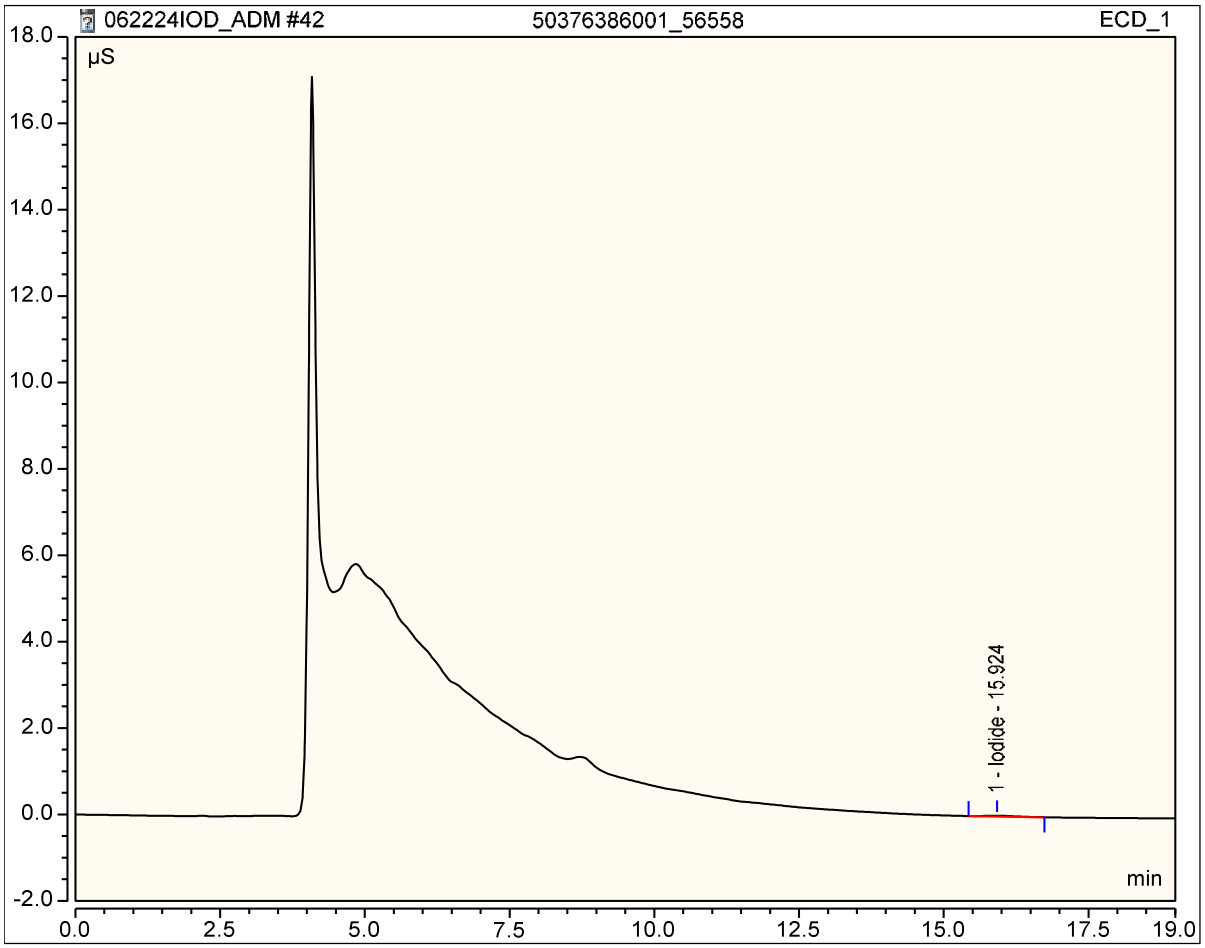
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.16	**Iodide**	98.4651	3.029	4.154	BMB*



50376386001_56558

Sample Name:	**50376386001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*38*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:14**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

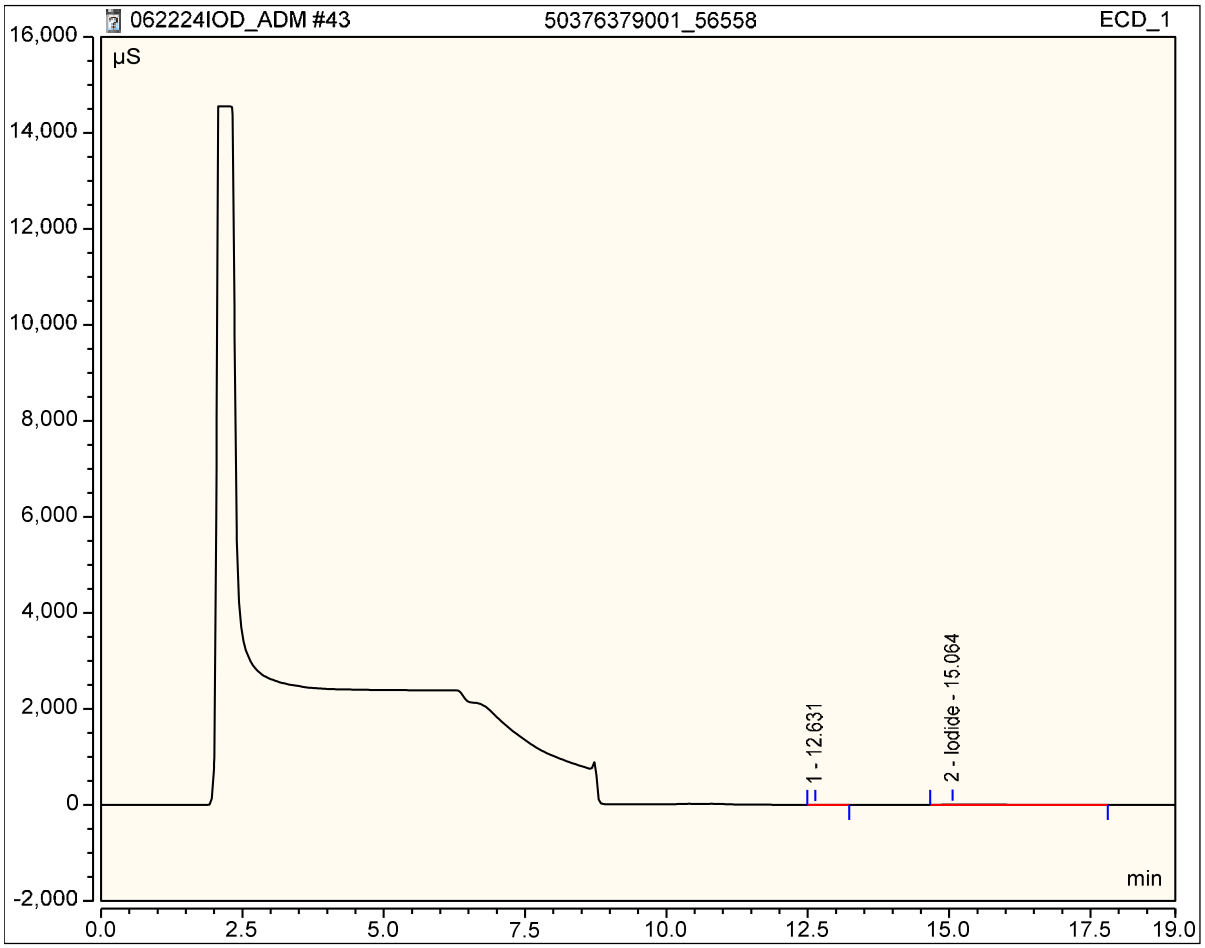
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.92	**Iodide**	0.4041	0.010	0.019	BMB



50376379001_56558

Sample Name:	**50376379001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*39*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

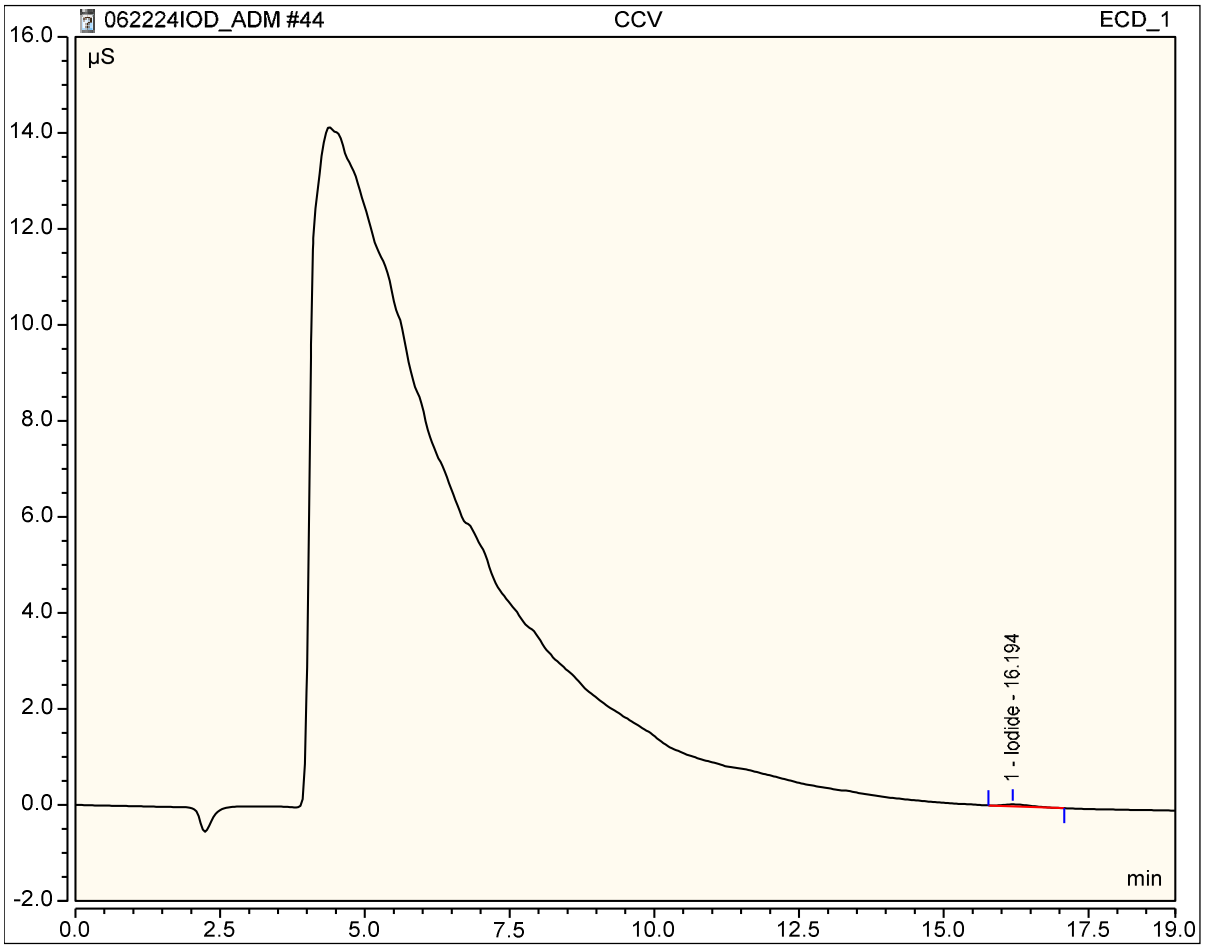
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.06	**Iodide**	229.6729	7.068	7.952	BMB



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*40*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

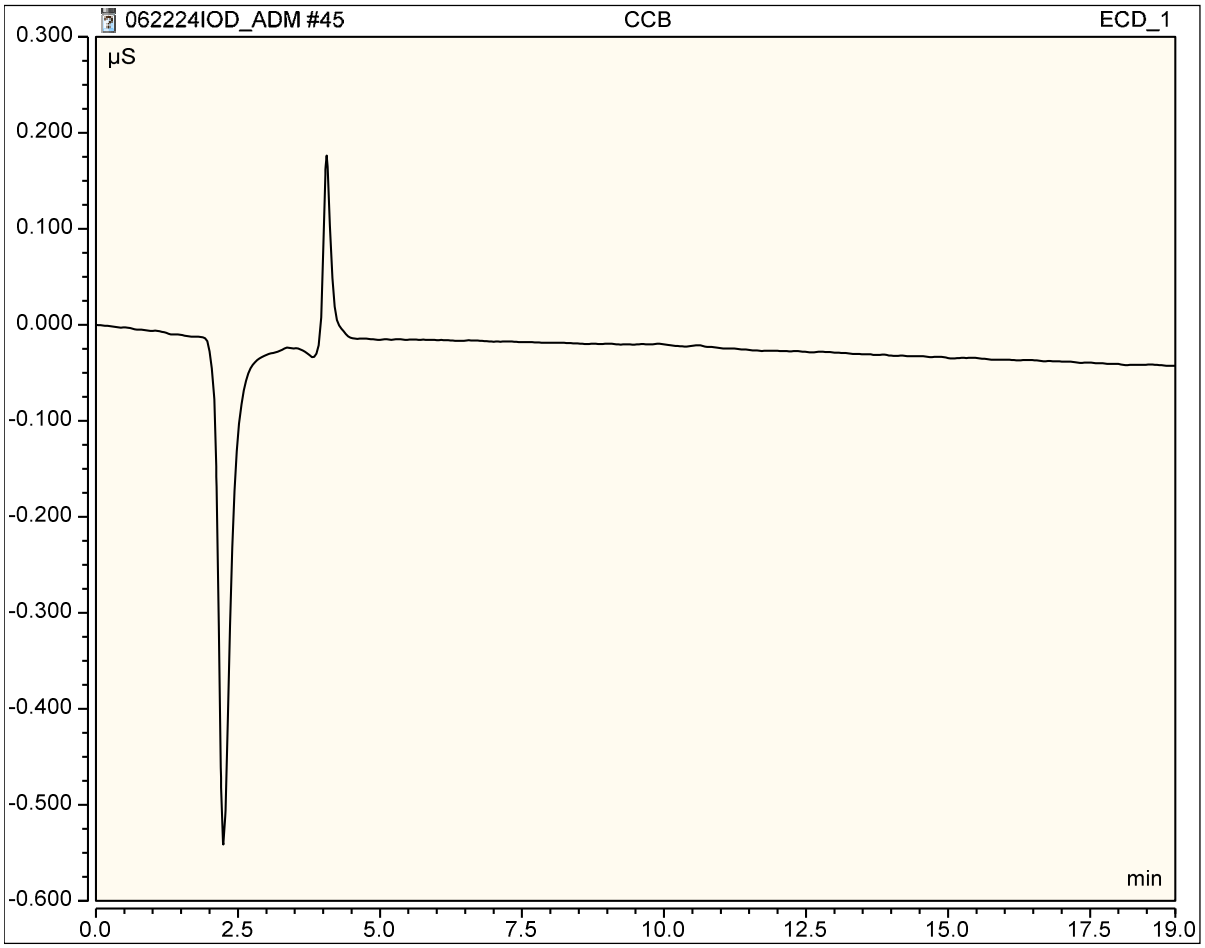
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.19	**Iodide**	0.7674	0.022	0.040	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*41*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 07:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

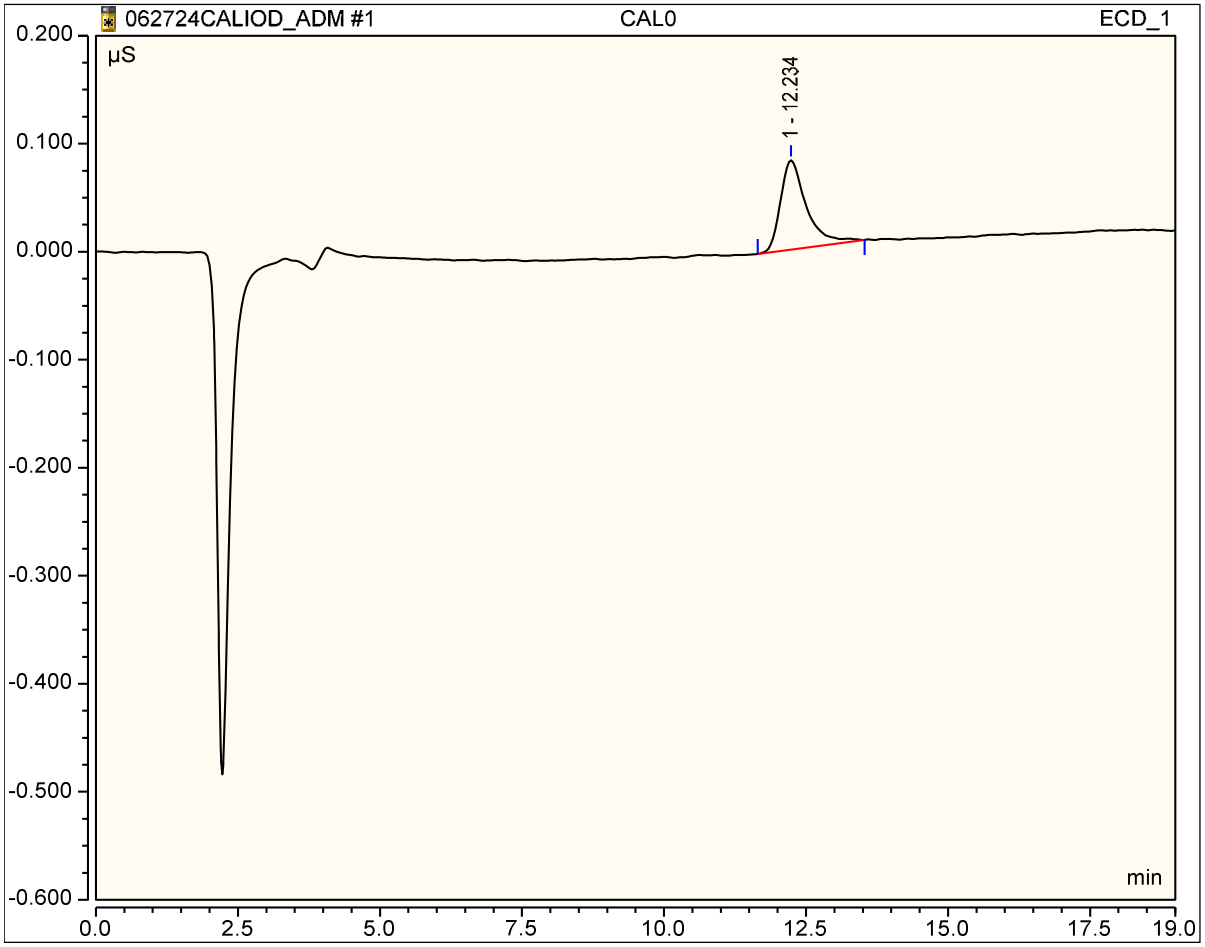
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL0
386549

Sample Name:	**CAL0**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 04:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

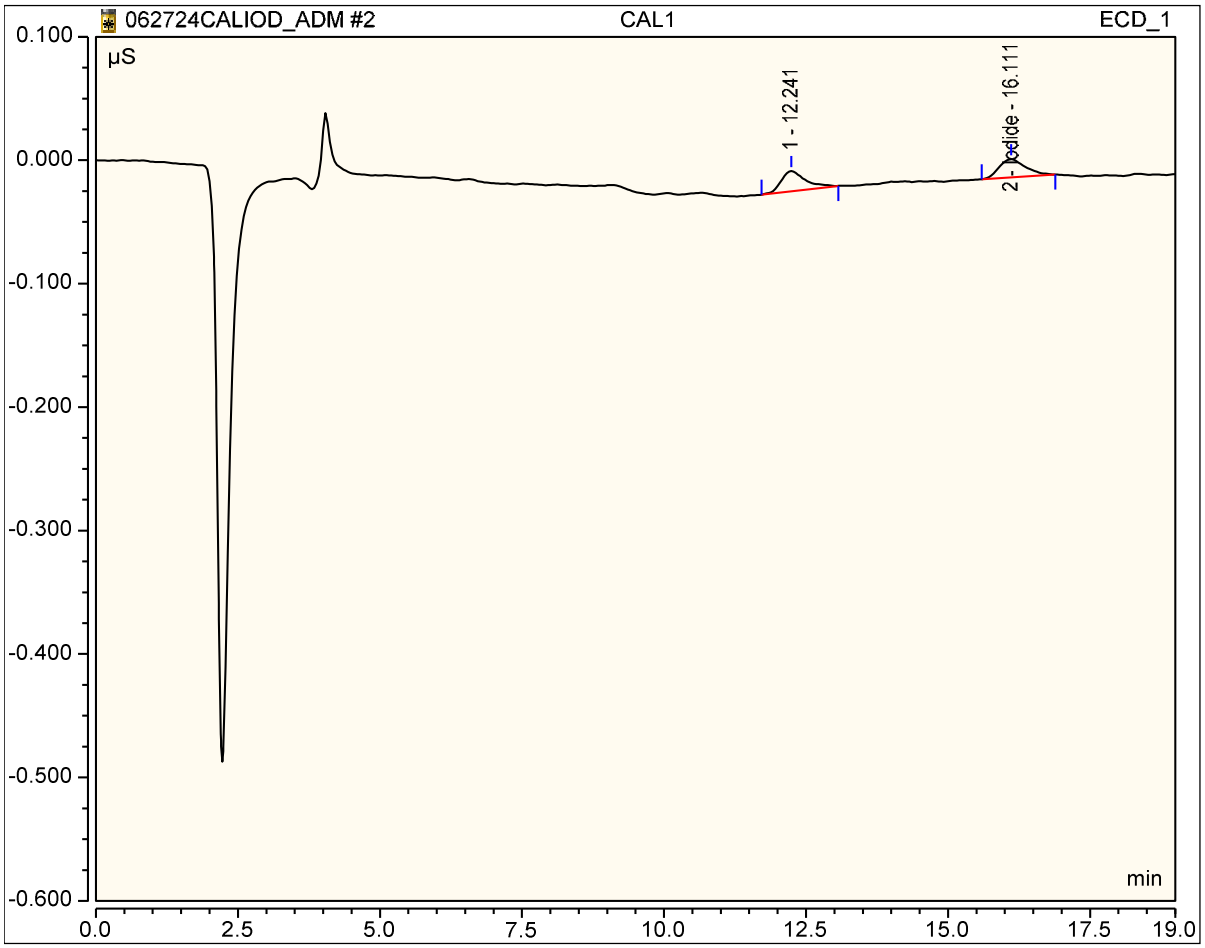
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
386548

Sample Name:	**CAL1**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 04:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

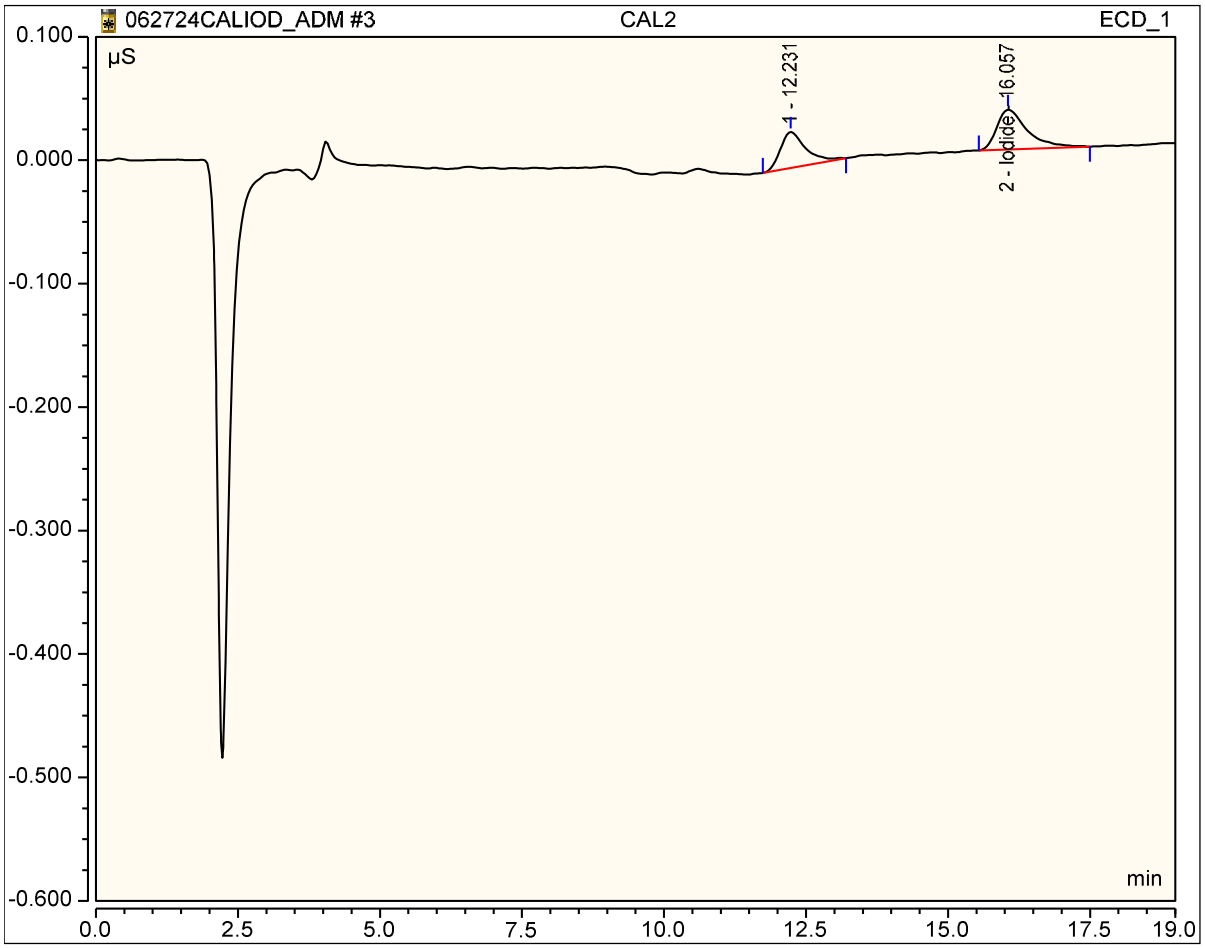
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	16.11	**Iodide**	0.4891	0.008	0.015	BMB



CAL2
386550

Sample Name:	**CAL2**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 04:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

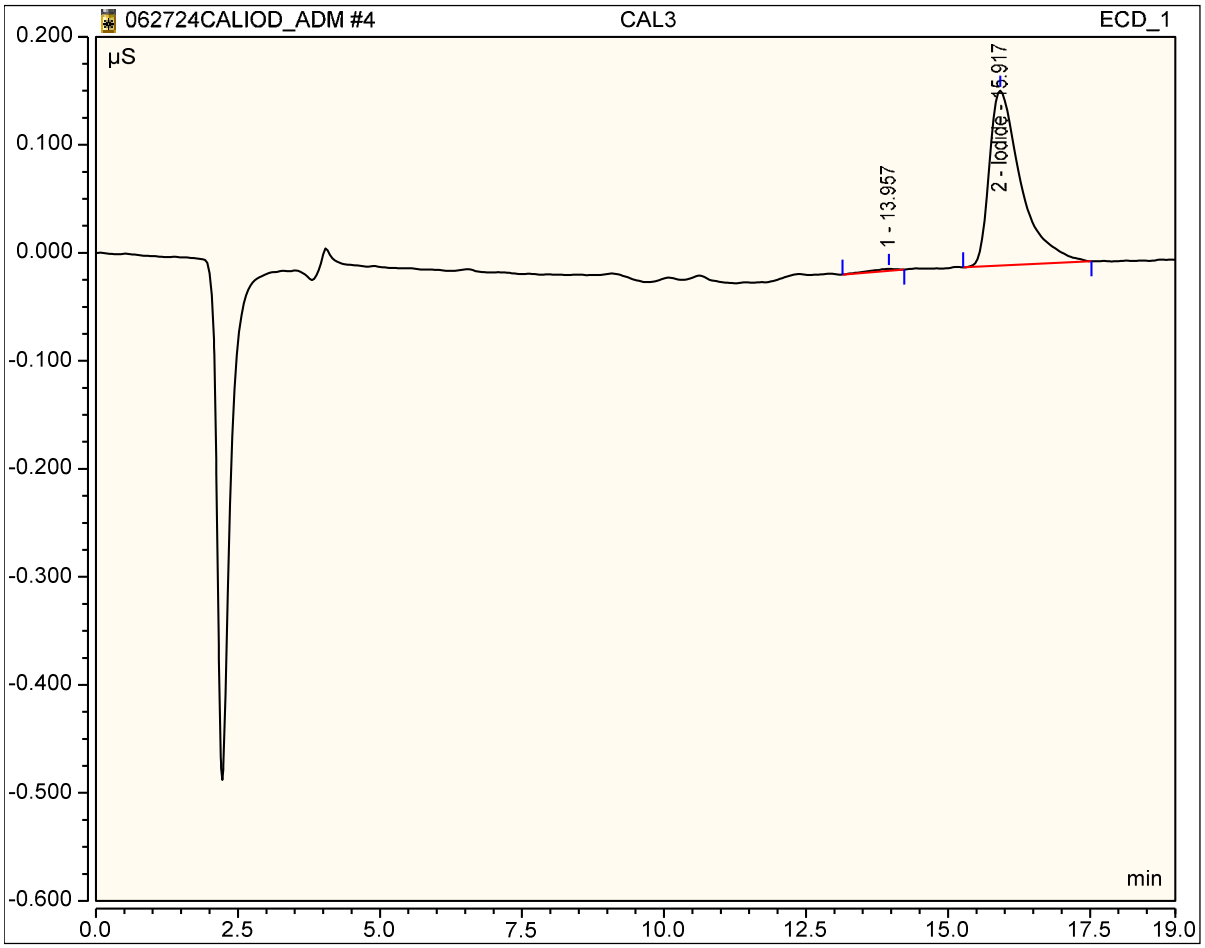
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	16.06	**Iodide**	1.0476	0.020	0.032	BMB



CAL3
386551

Sample Name:	**CAL3**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 05:05**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

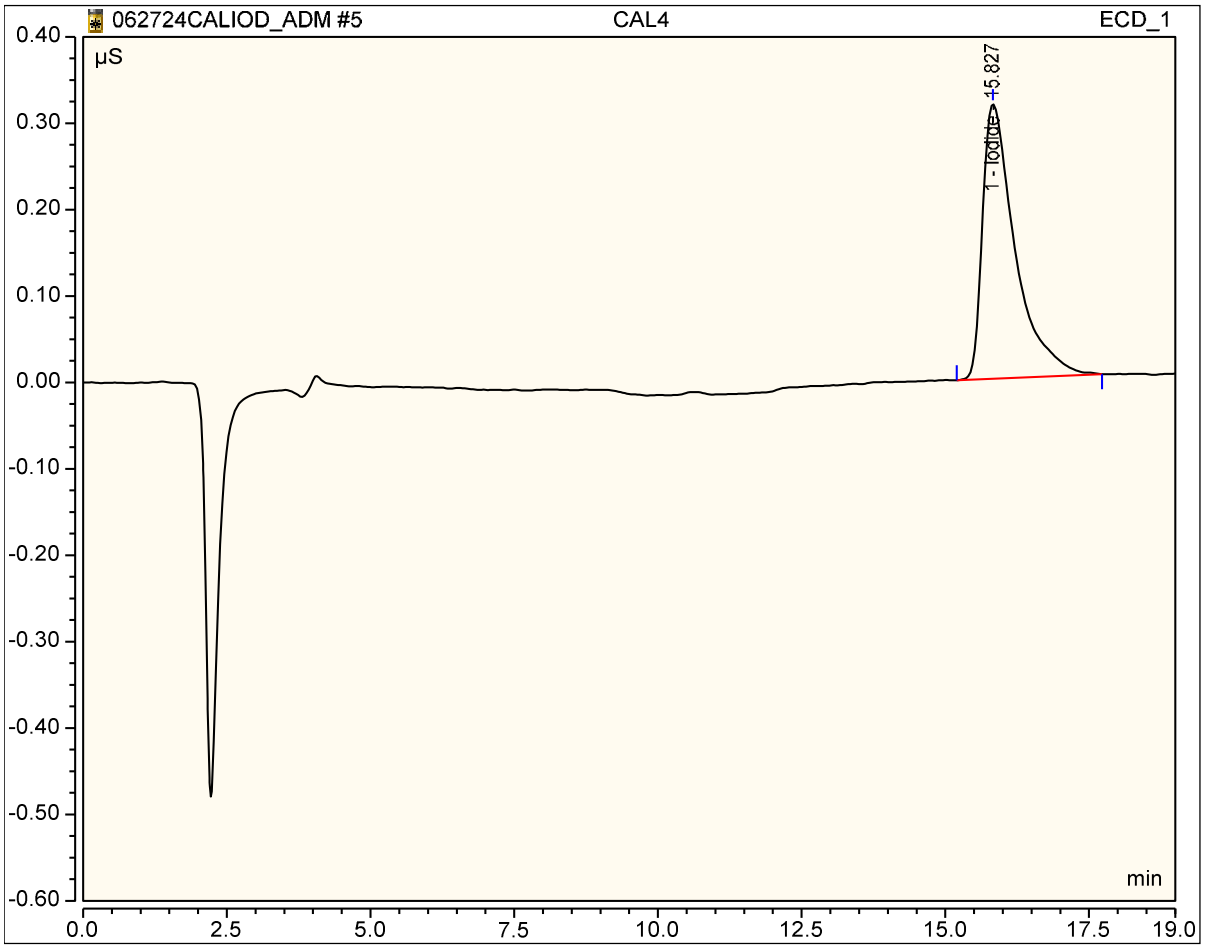
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.92	**Iodide**	4.9402	0.105	0.162	BMB



CAL4
386552

Sample Name:	**CAL4**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 05:27**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

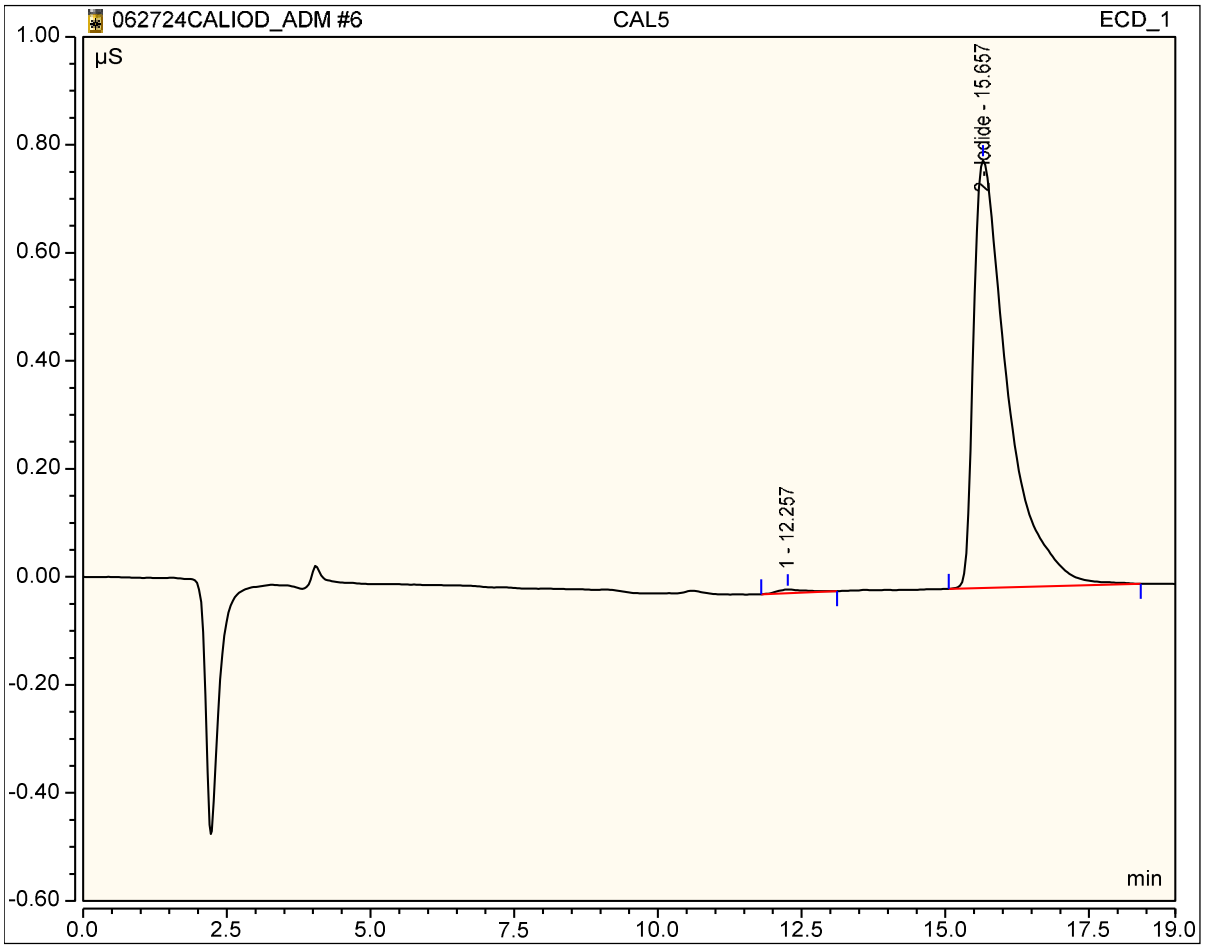
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.83	**Iodide**	9.7537	0.209	0.318	BMB



CAL5
386553

Sample Name:	**CAL5**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*38*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 05:48**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

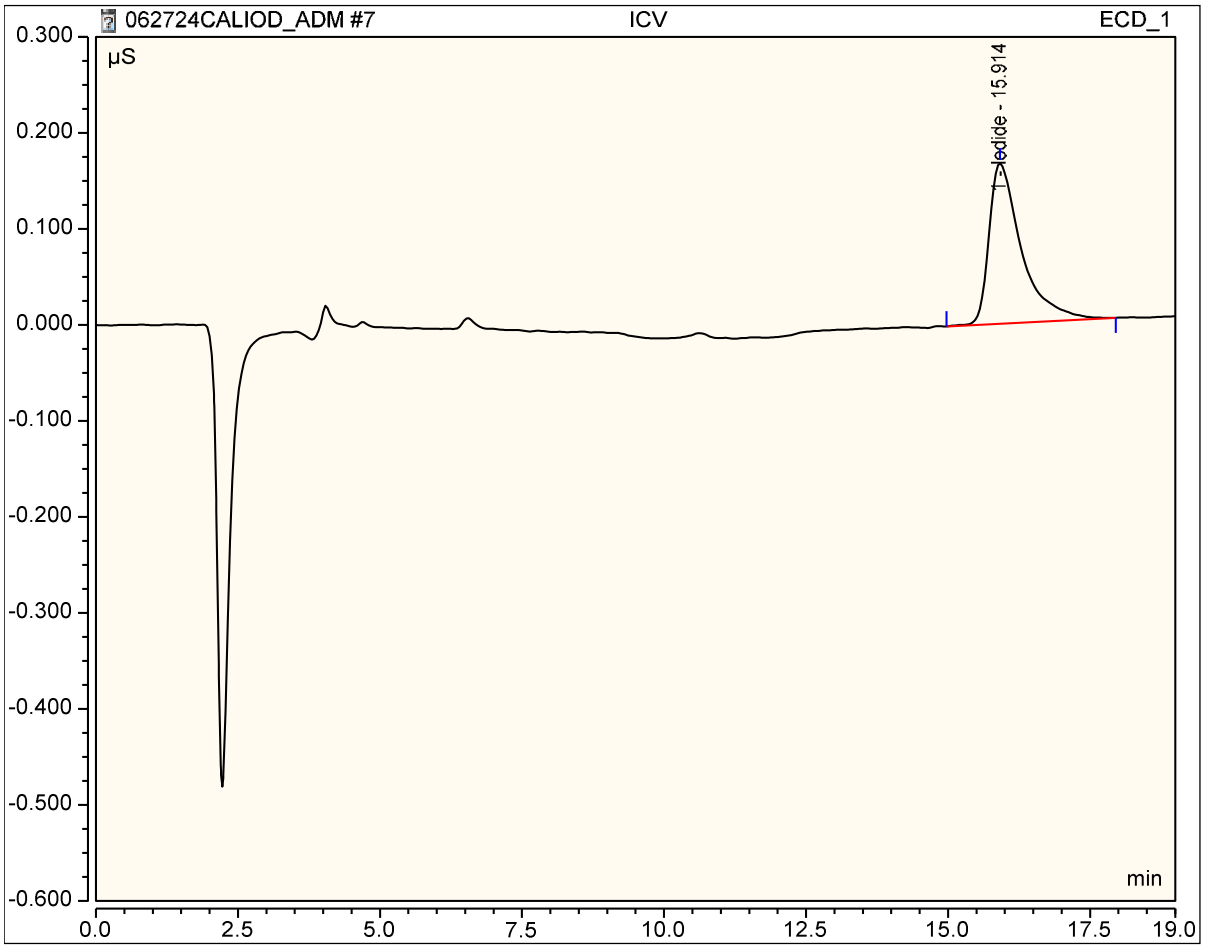
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.66	**Iodide**	25.2694	0.546	0.792	BMB



ICV
371401

Sample Name:	**ICV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*39*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 06:10**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

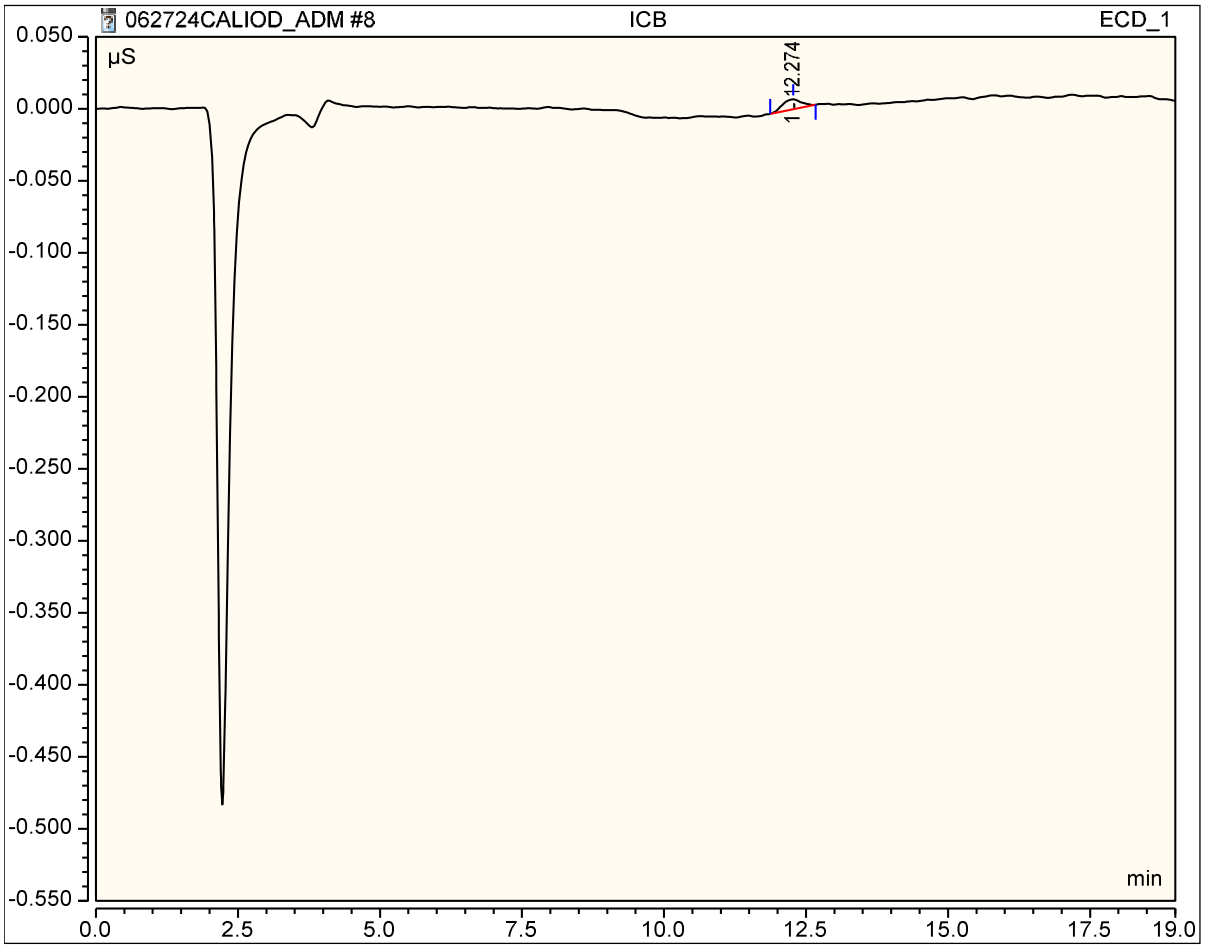
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.91	**Iodide**	5.2062	0.110	0.167	BMB



ICB
340111

Sample Name:	**ICB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*40*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 06:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

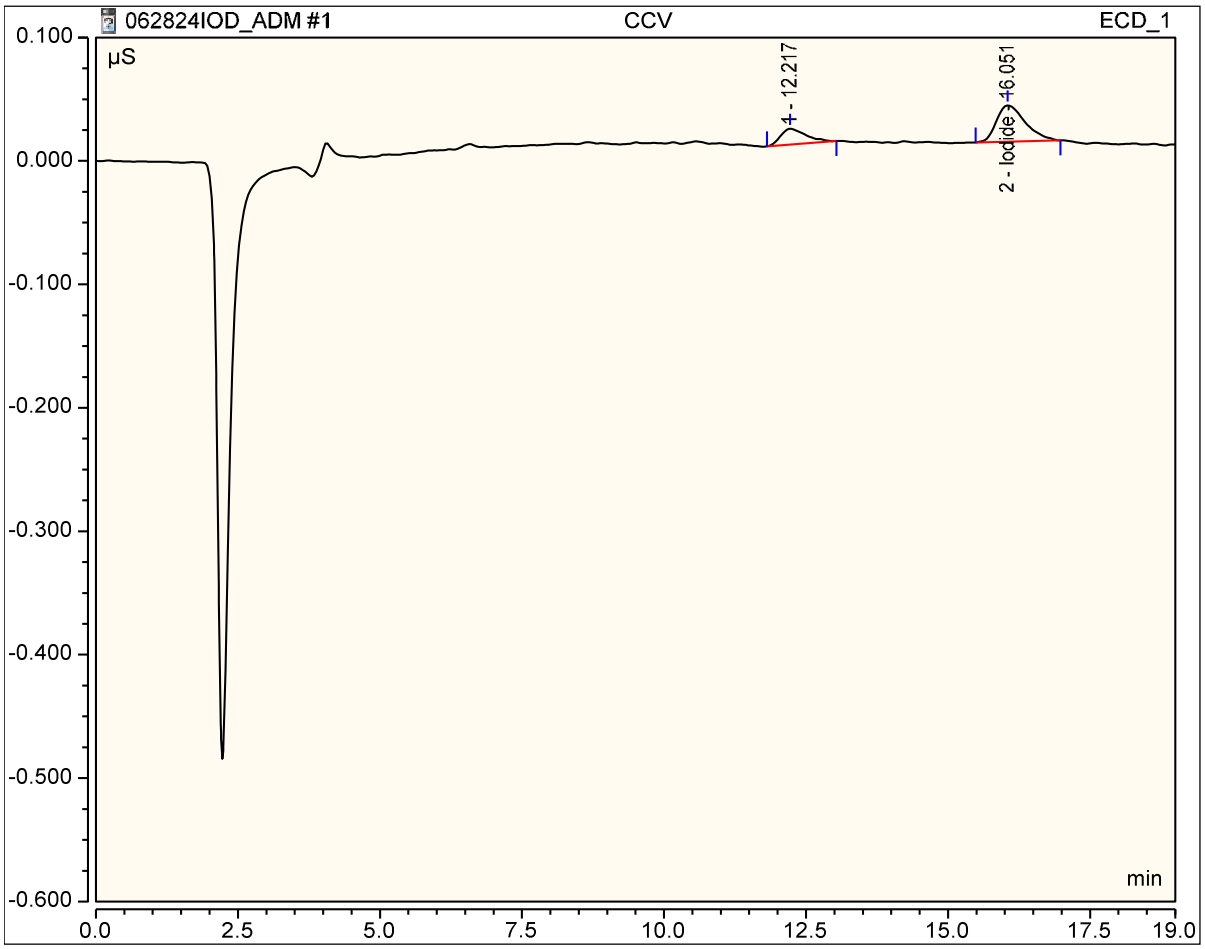
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
386554

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 09:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

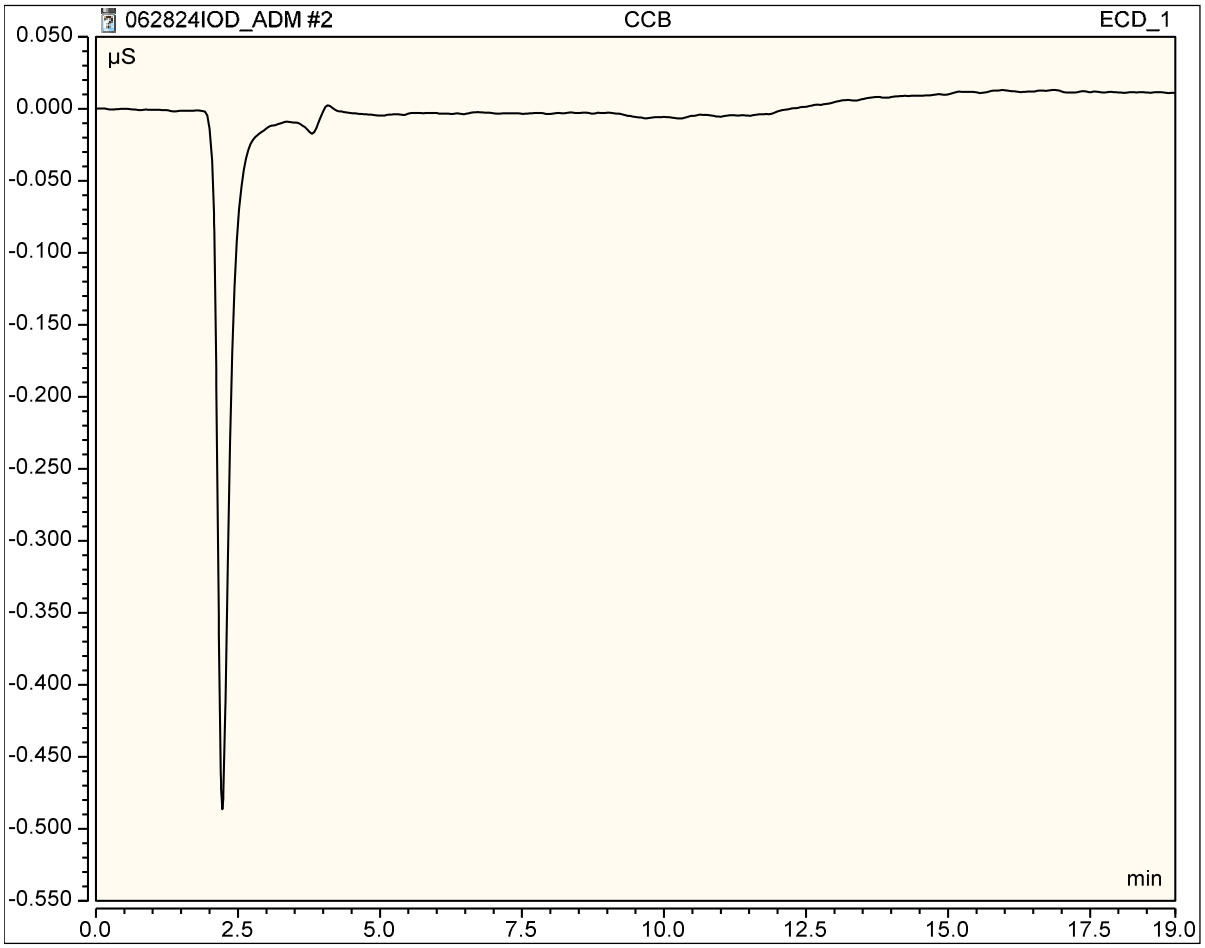
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	16.05	**Iodide**	0.9188	0.017	0.029	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 09:53**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

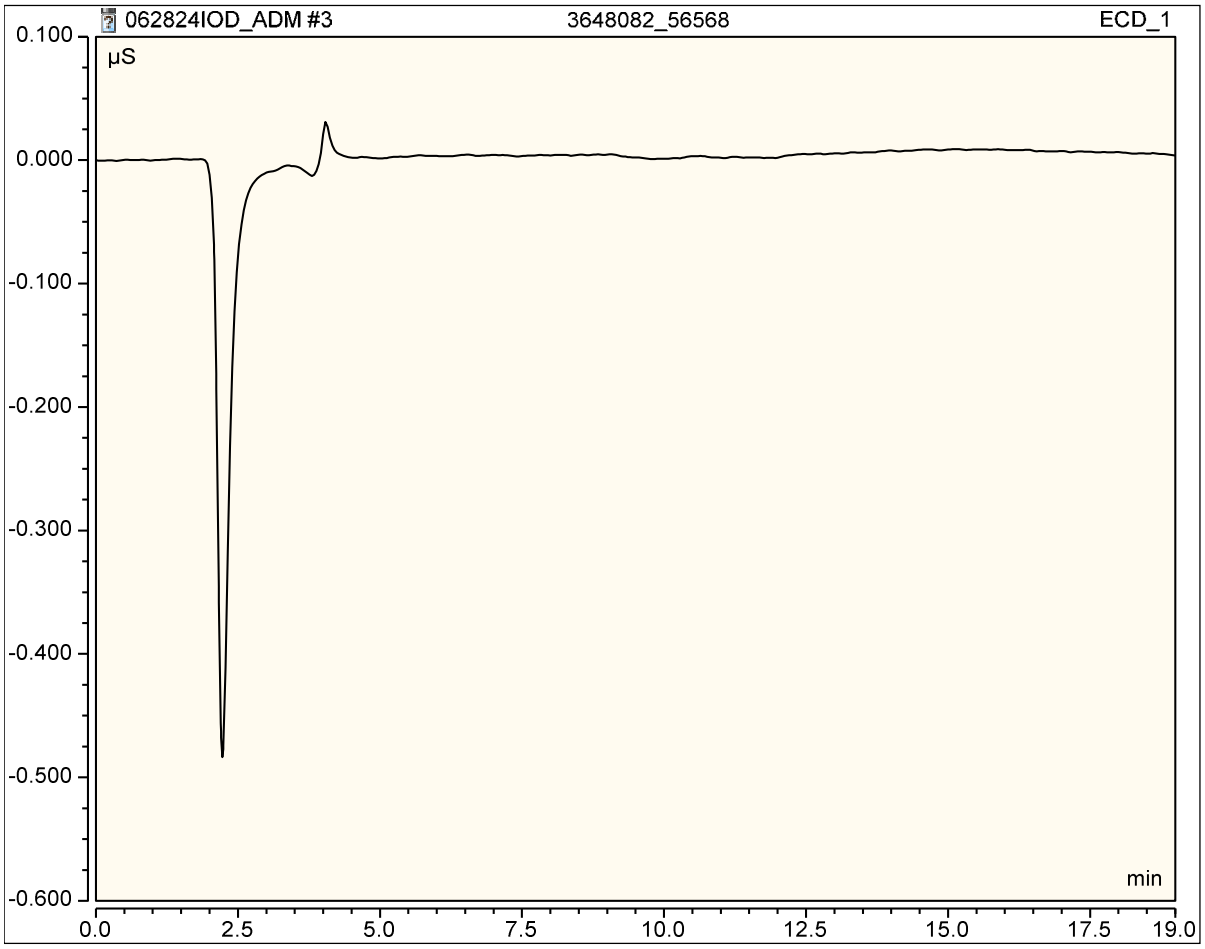
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3648082_56568
340111

Sample Name:	**3648082_56568**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 10:15**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

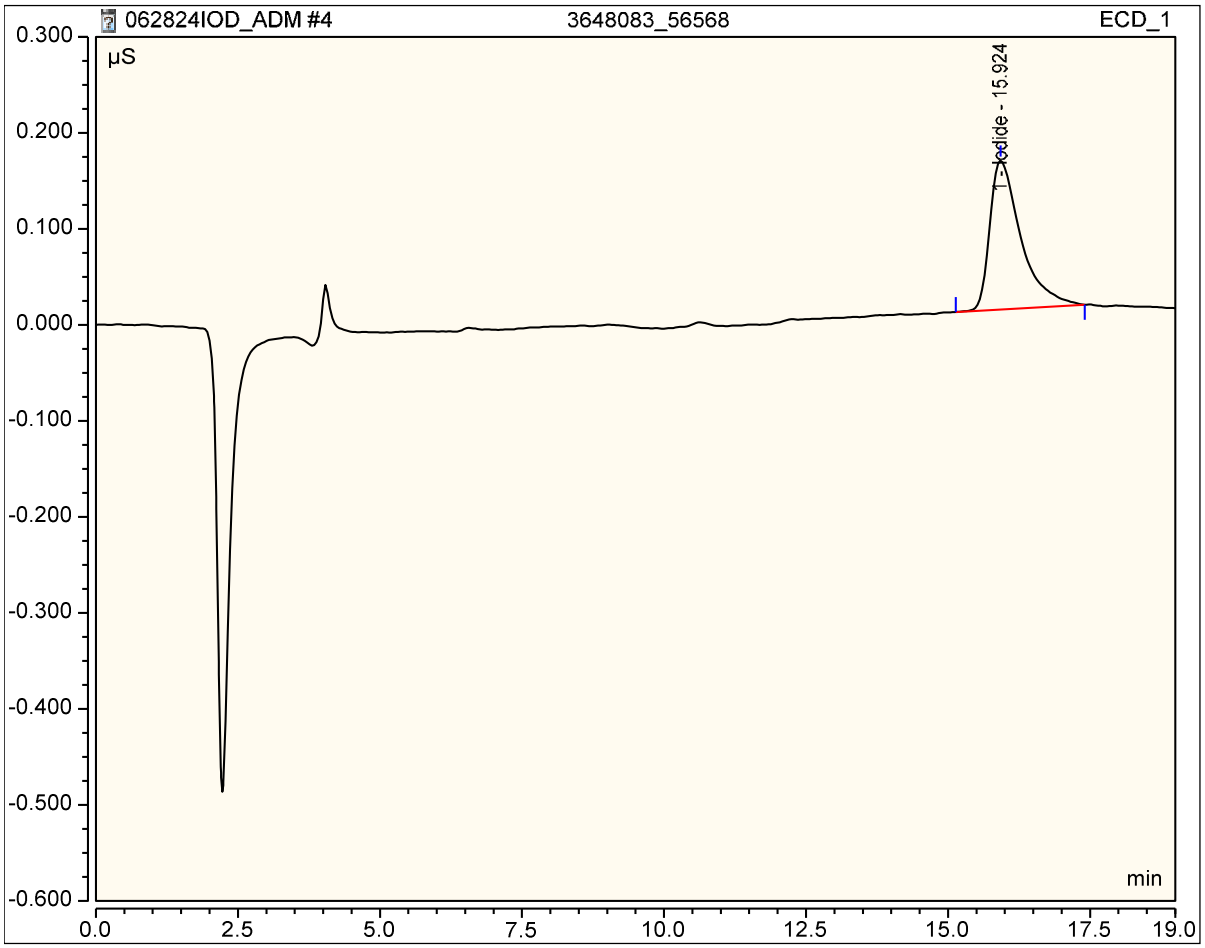
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3648083_56568
377680

Sample Name:	**3648083_56568**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 10:37**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

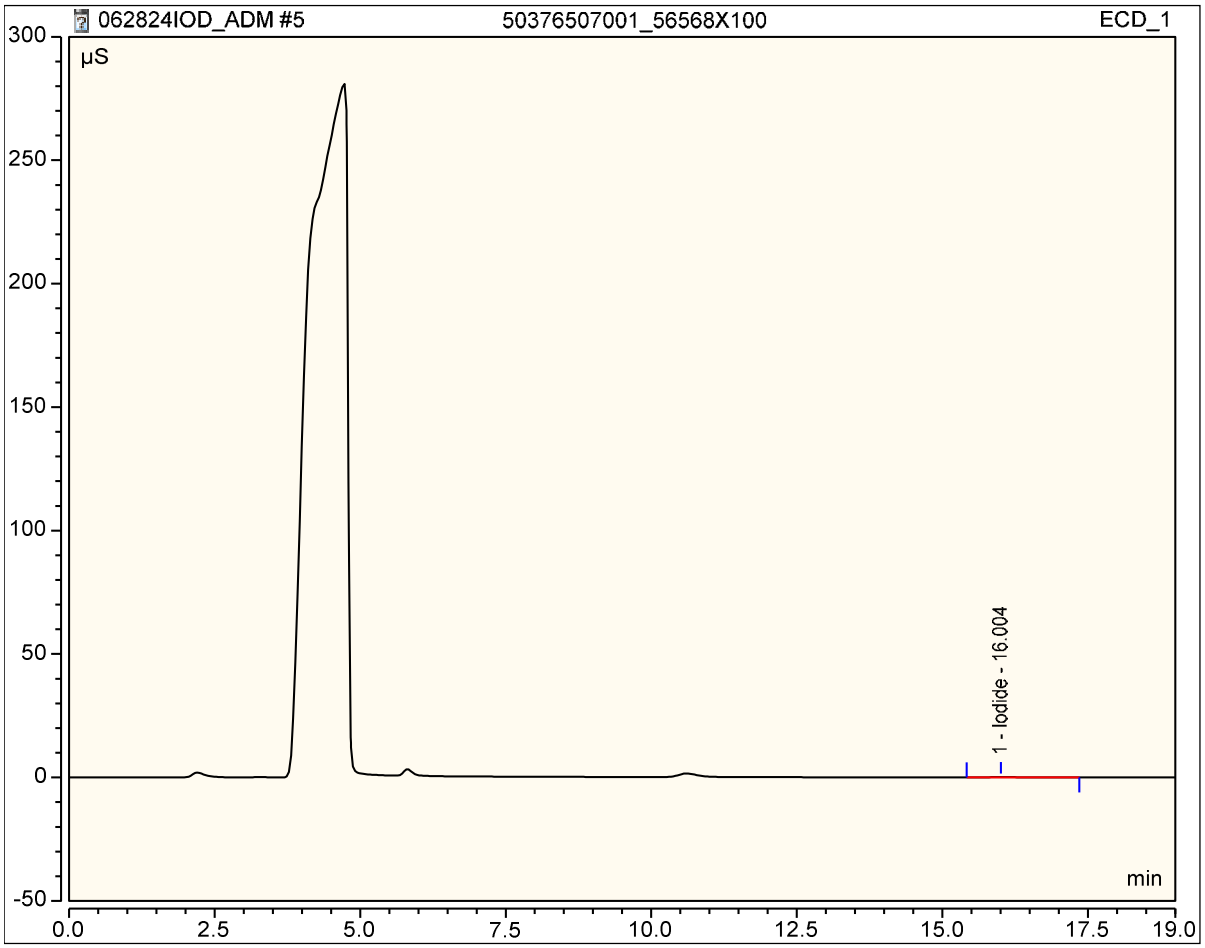
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.92	**Iodide**	4.6547	0.098	0.155	BMB



50376507001_56568X100
371402

Sample Name:	**50376507001_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 11:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

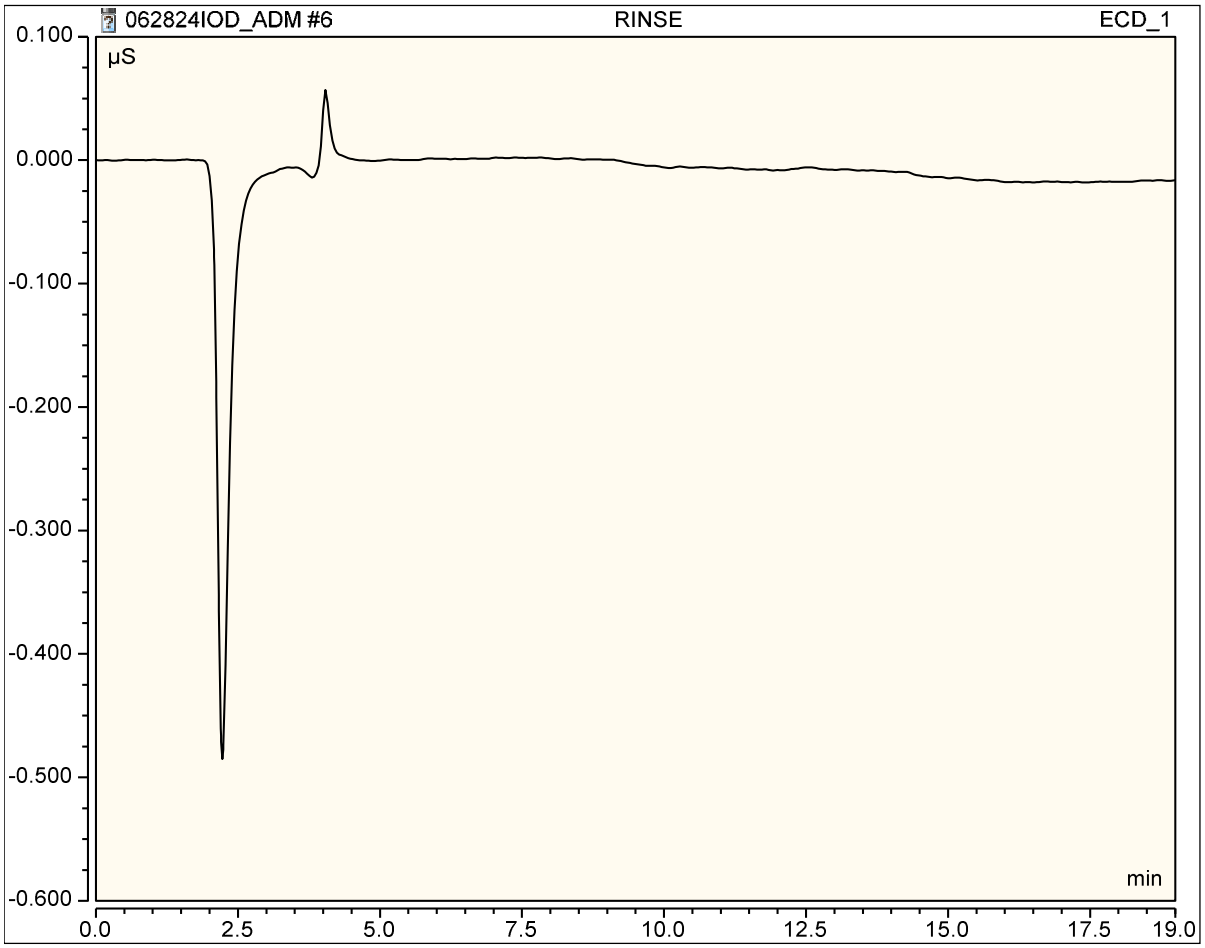
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.00	**Iodide**	1.9737	0.040	0.065	BMB



RINSE
340111

Sample Name:	**RINSE**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 11:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

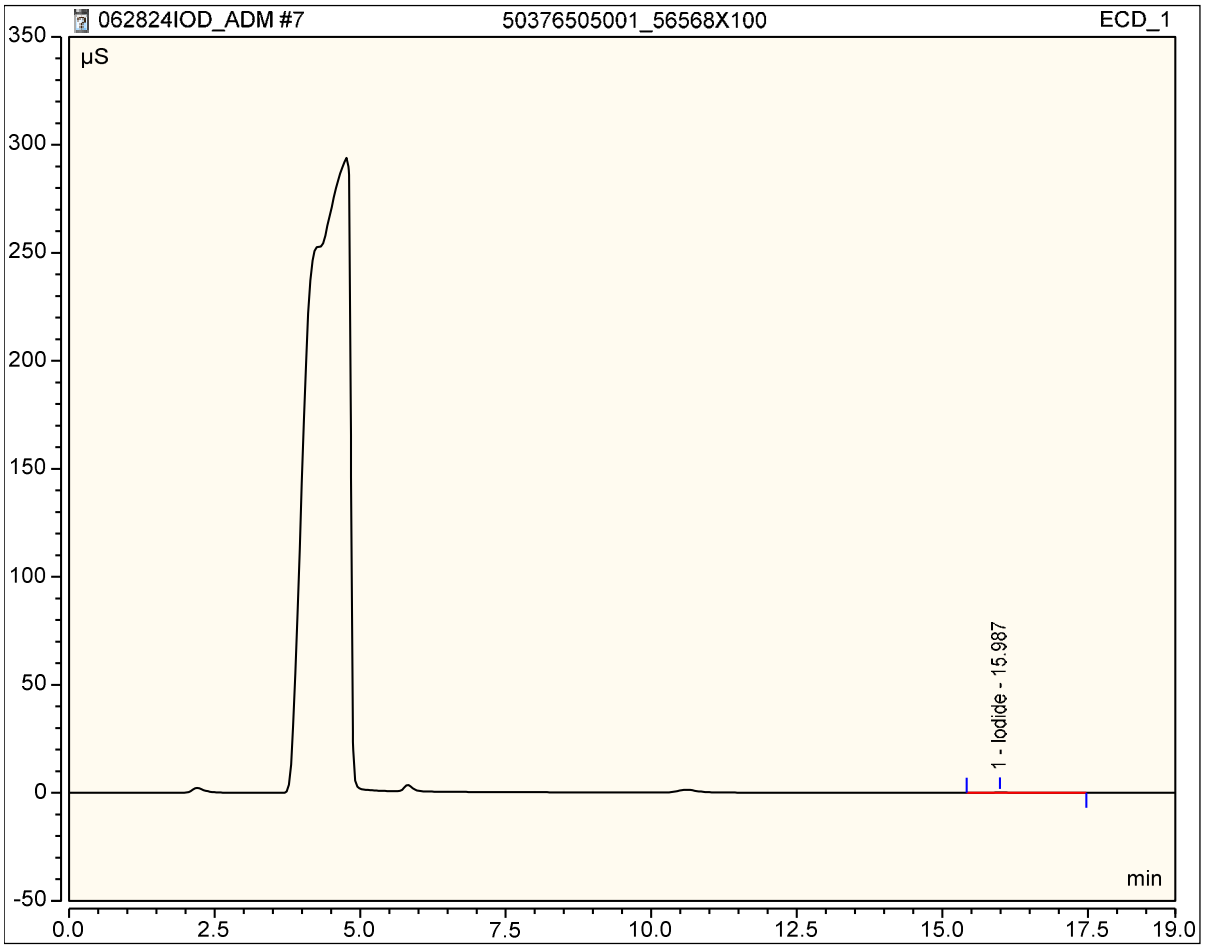
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376505001_56568X100

Sample Name:	**50376505001_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 12:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

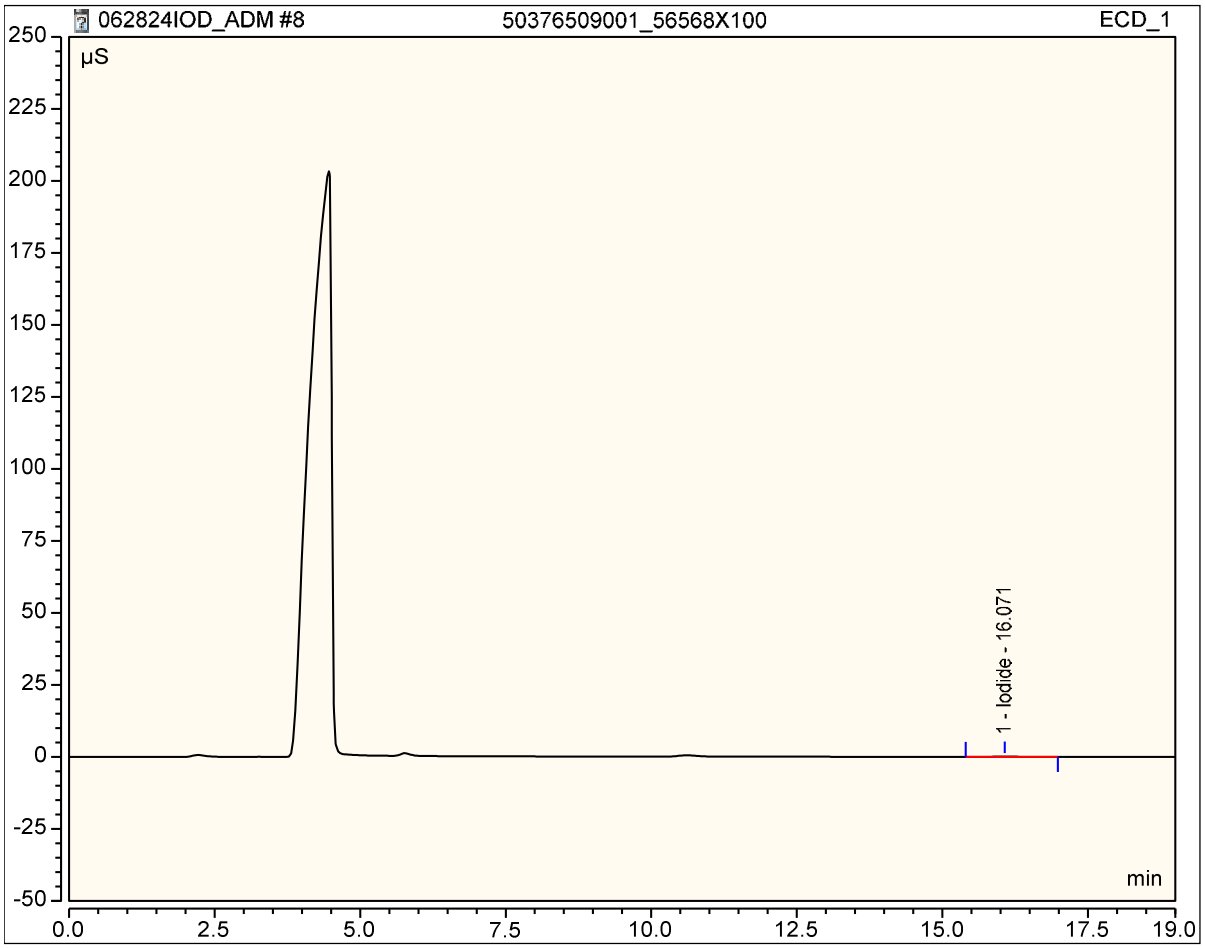
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.99	**Iodide**	2.5093	0.052	0.083	BMB



50376509001_56568X100

Sample Name:	**50376509001_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 12:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

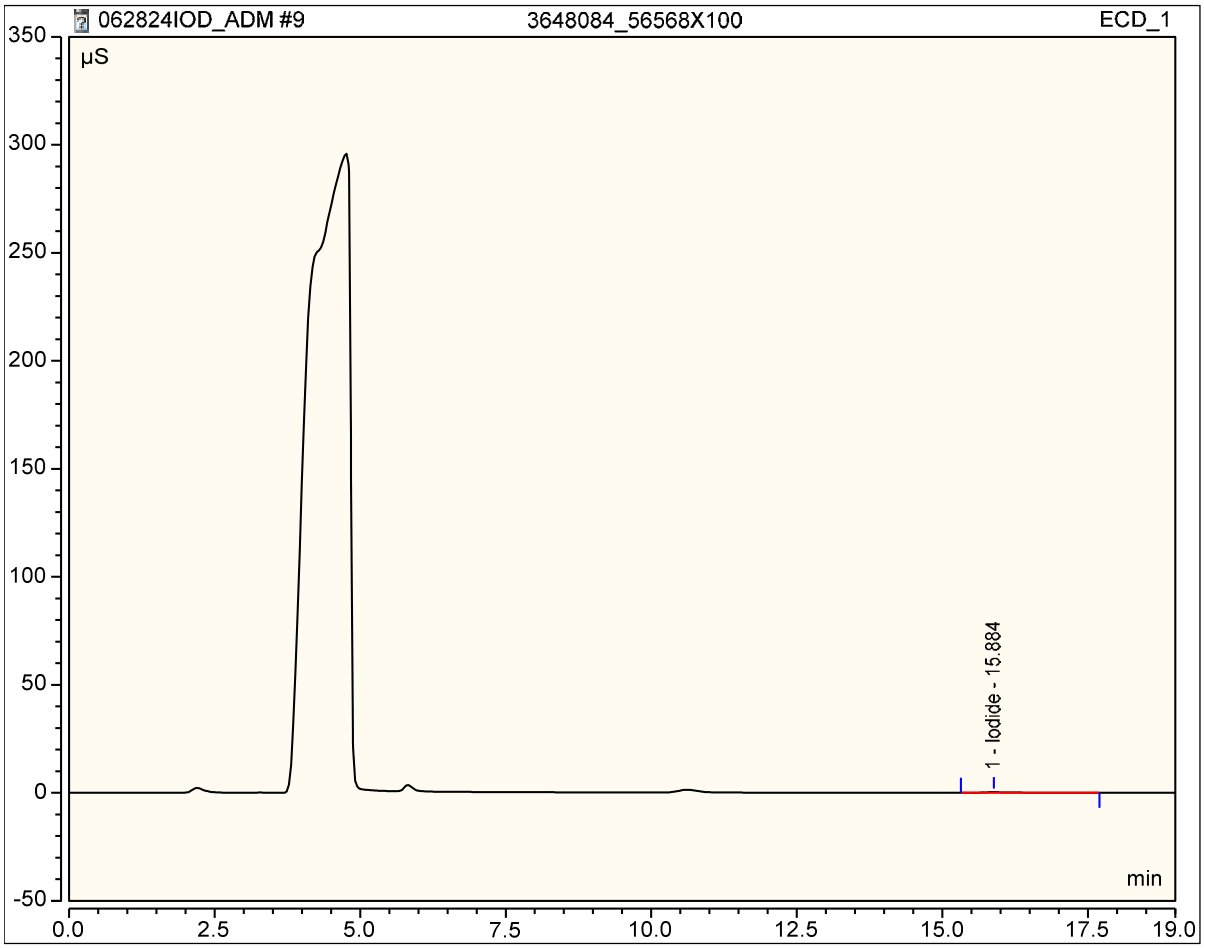
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.07	**Iodide**	0.9180	0.017	0.031	BMB



3648084_56568X100
377680

Sample Name:	**3648084_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 12:53**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

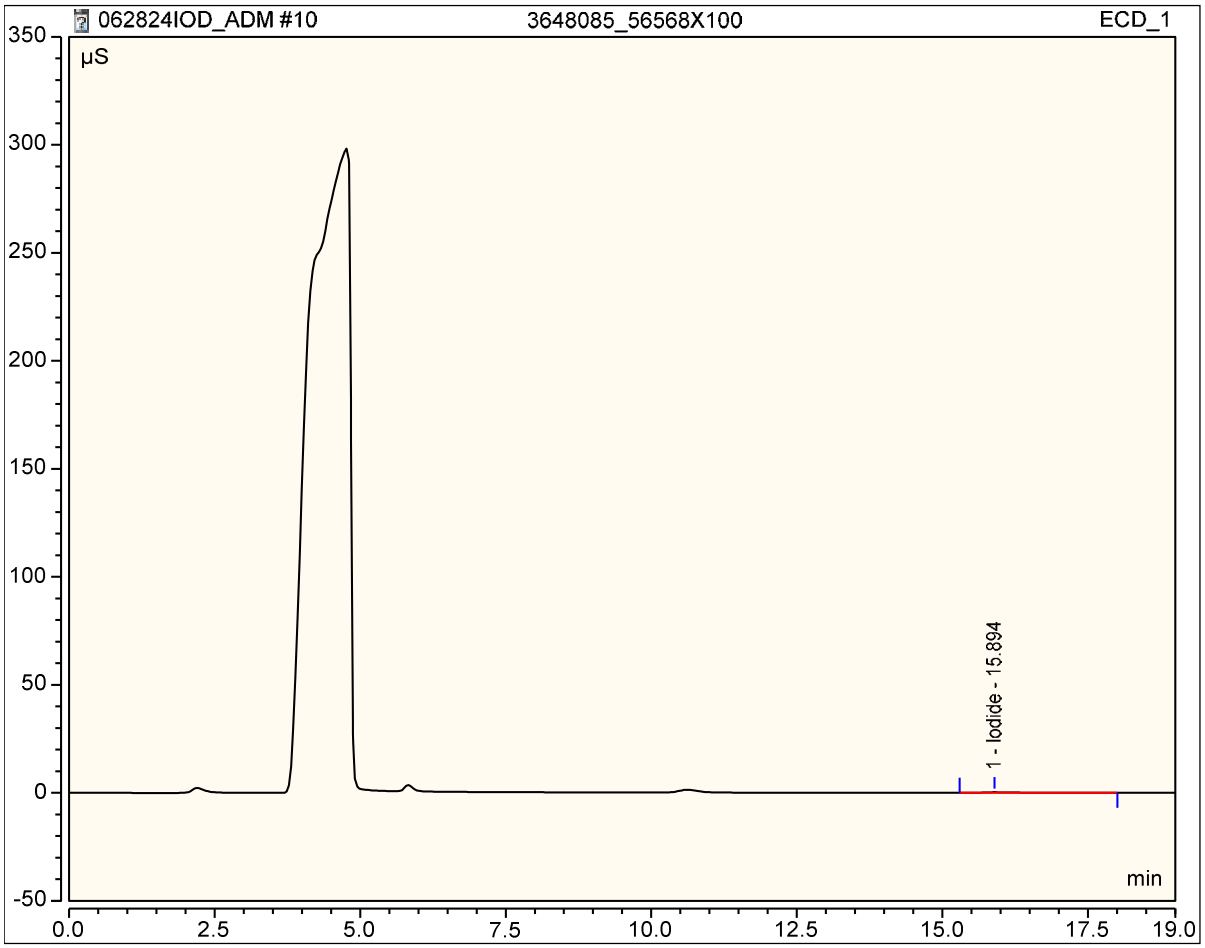
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.88	**Iodide**	7.1473	0.152	0.239	BMB



3648085_56568X100
377680

Sample Name:	**3648085_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 13:15**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.89	**Iodide**	7.3115	0.156	0.239	BMB



RINSE

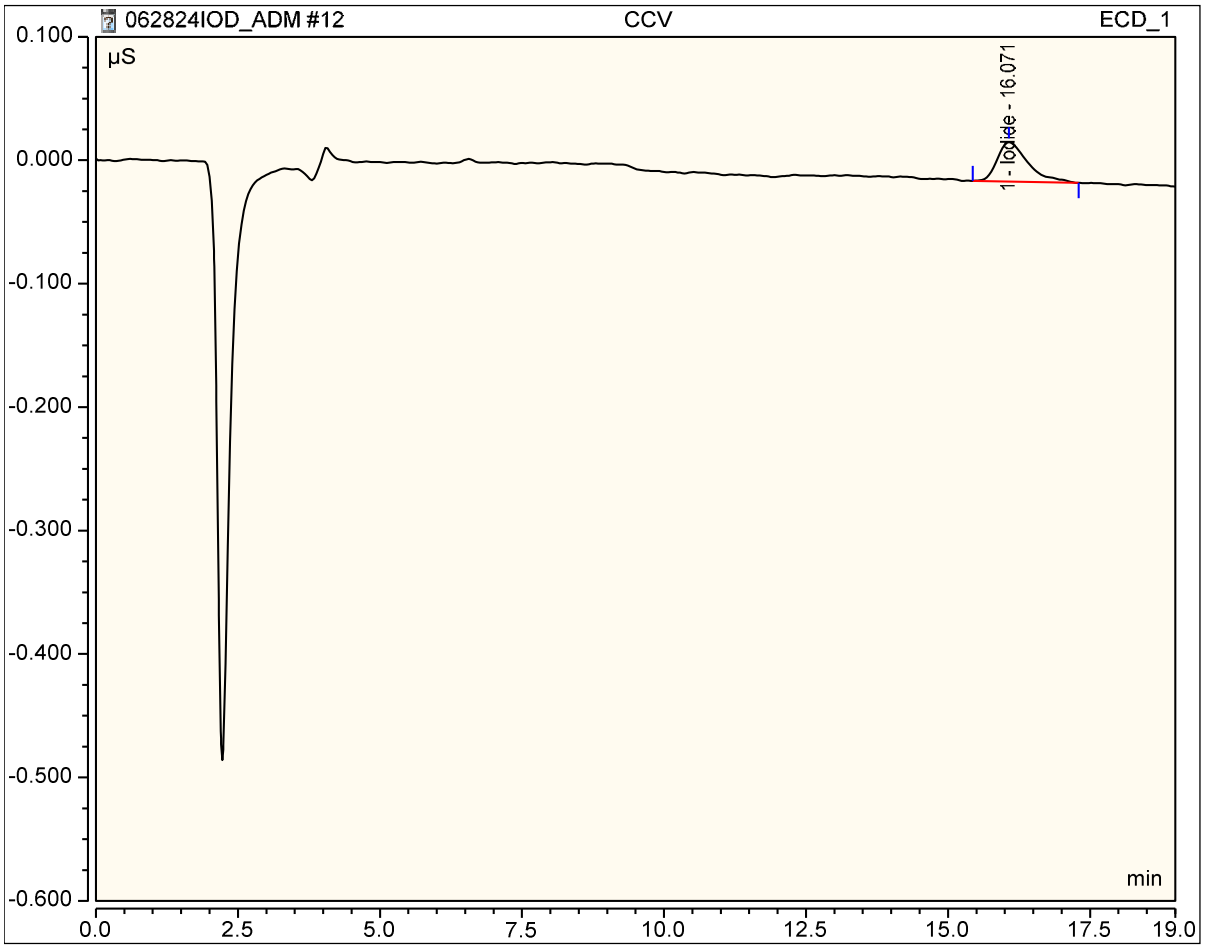
Sample Name:	**RINSE**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 13:36**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type

CCV
386554

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*23*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 13:58**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

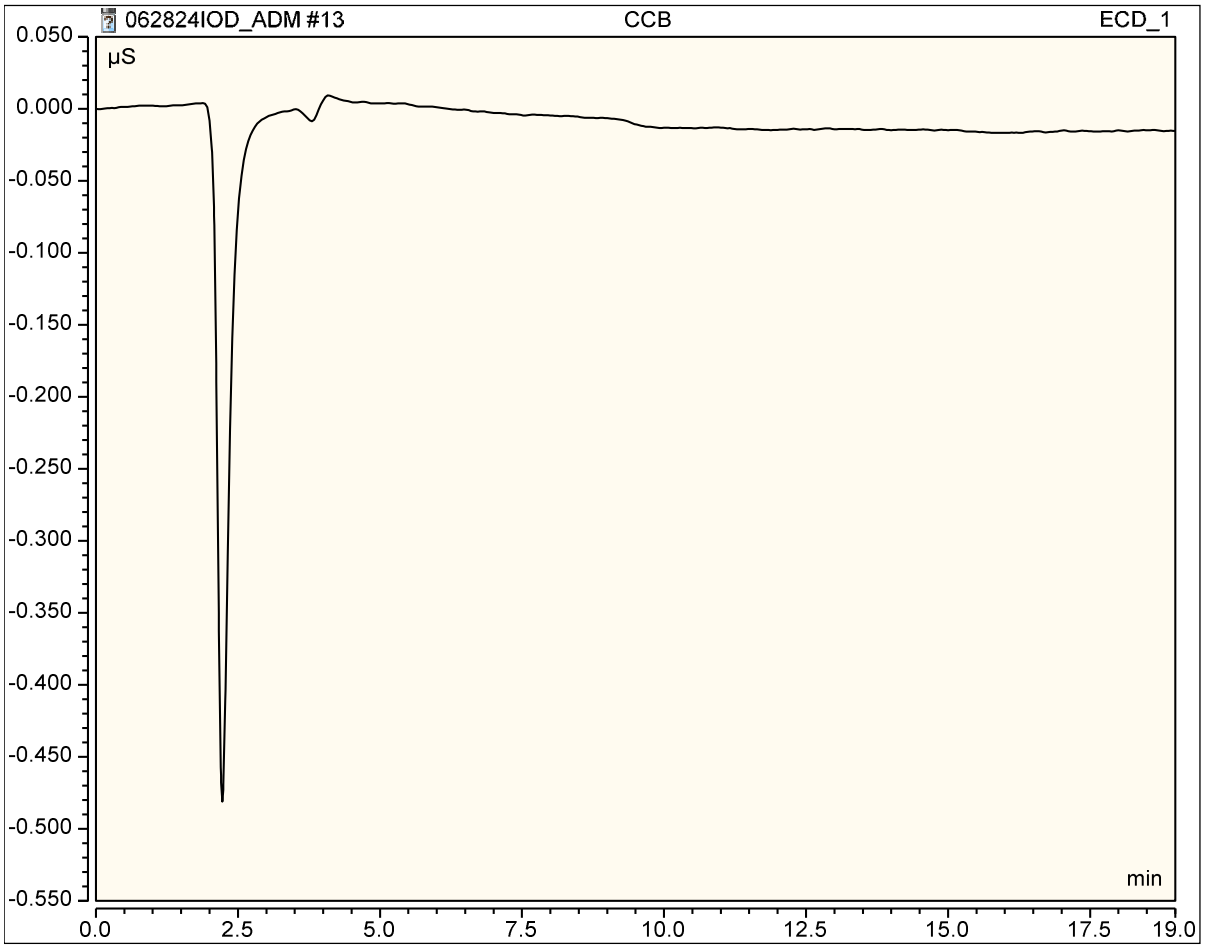
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.07	**Iodide**	1.0365	0.020	0.032	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*24*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 14:20**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

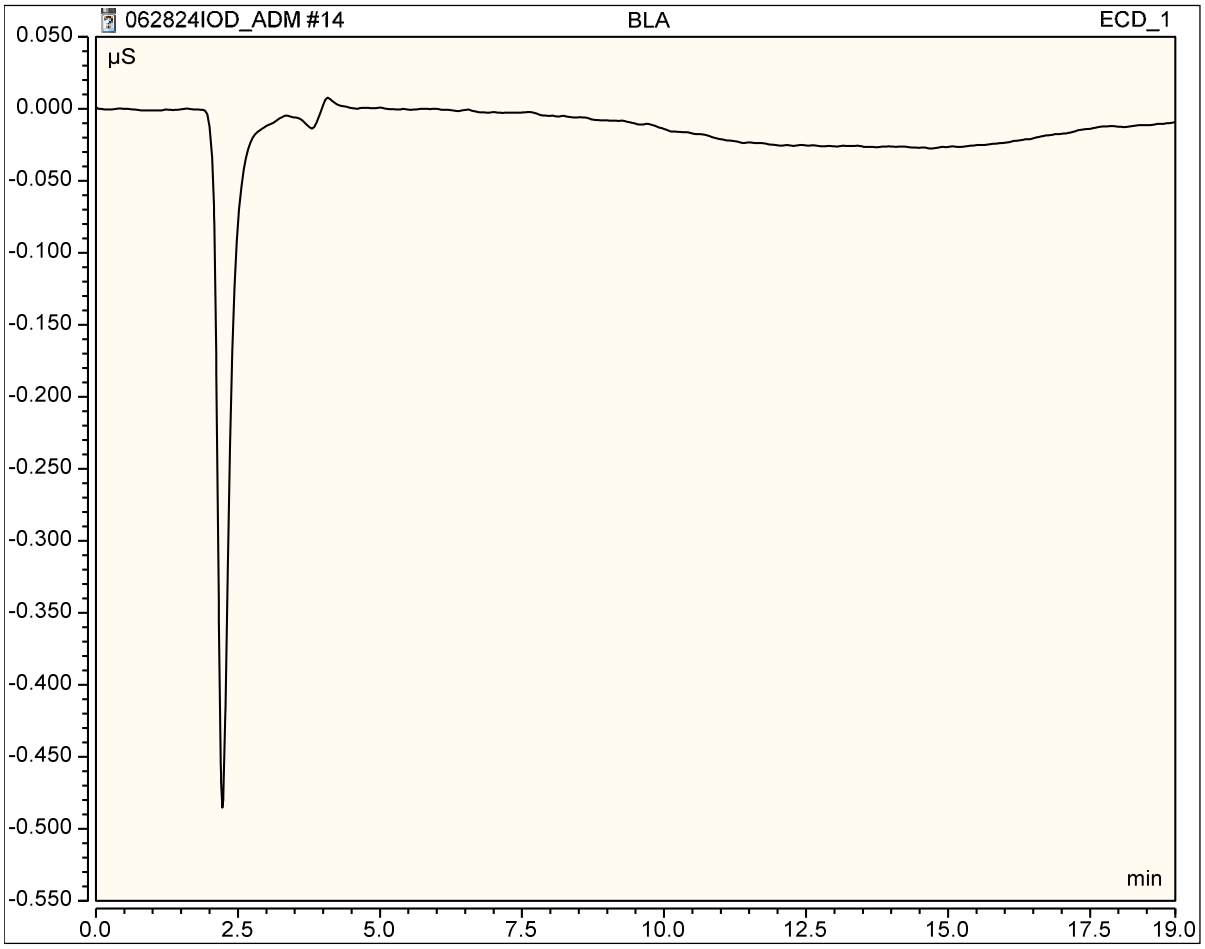
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



BLA

Sample Name:	**BLA**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 16:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

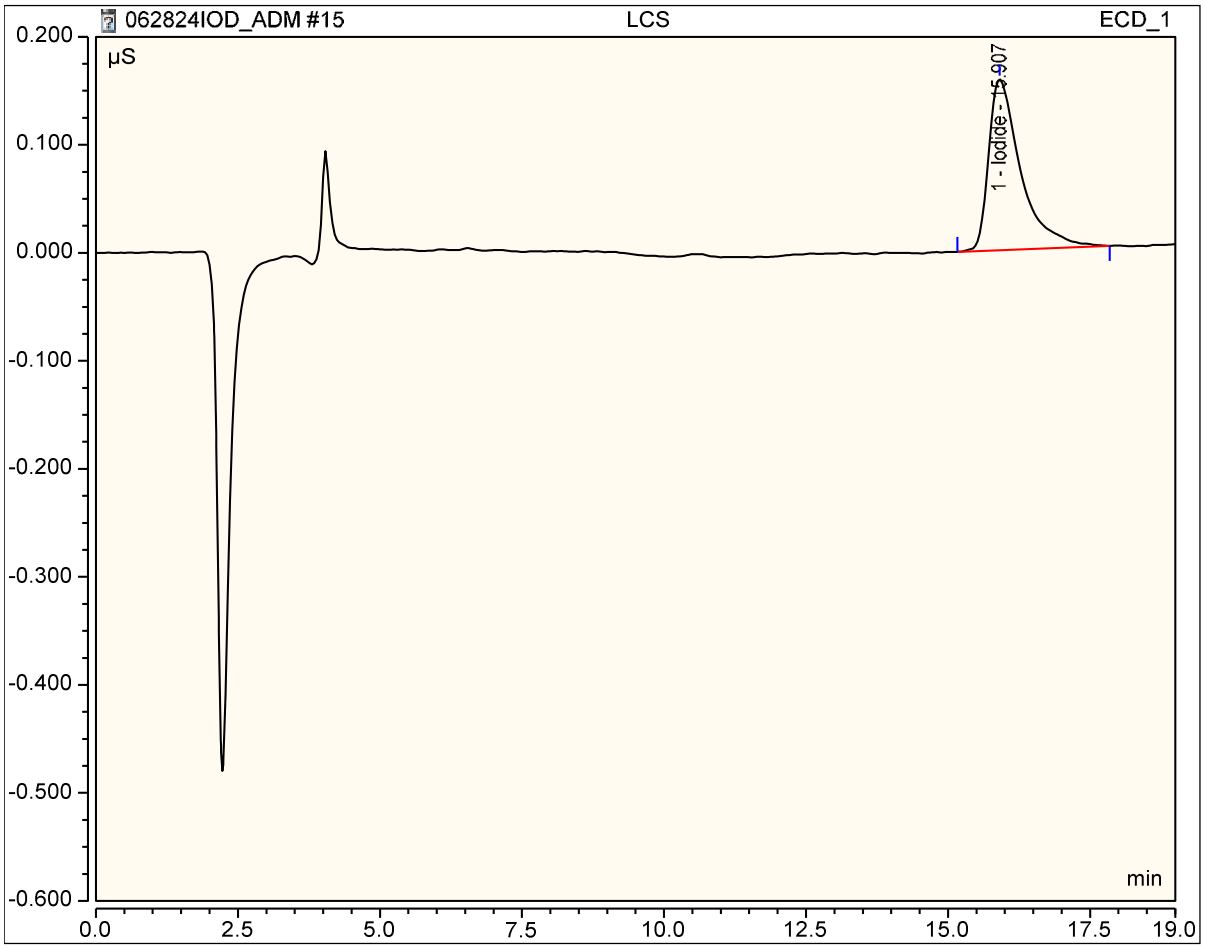
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



LCS

Sample Name:	**LCS**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 17:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

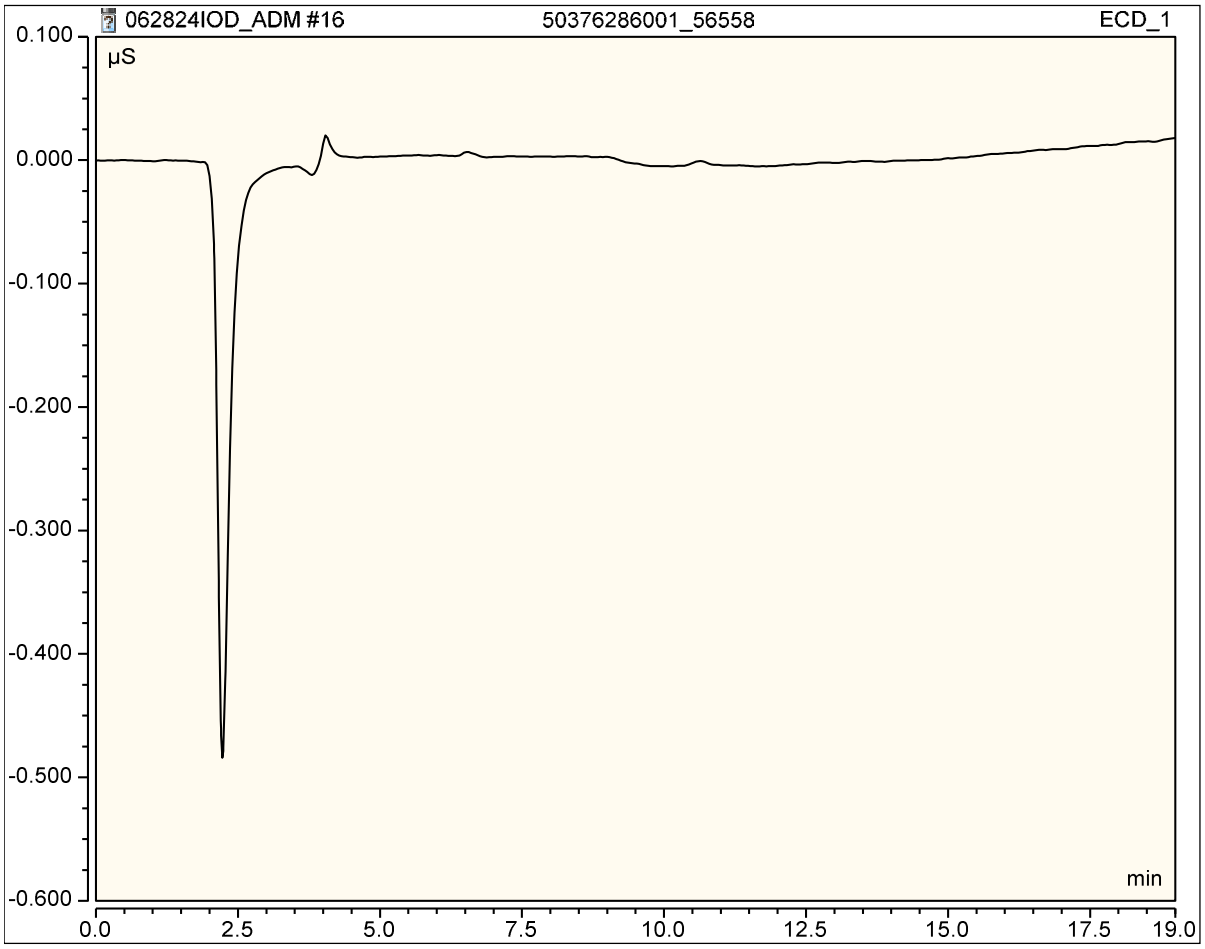
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.91	**Iodide**	4.8926	0.104	0.158	BMB



50376286001_56558

Sample Name:	**50376286001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 17:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

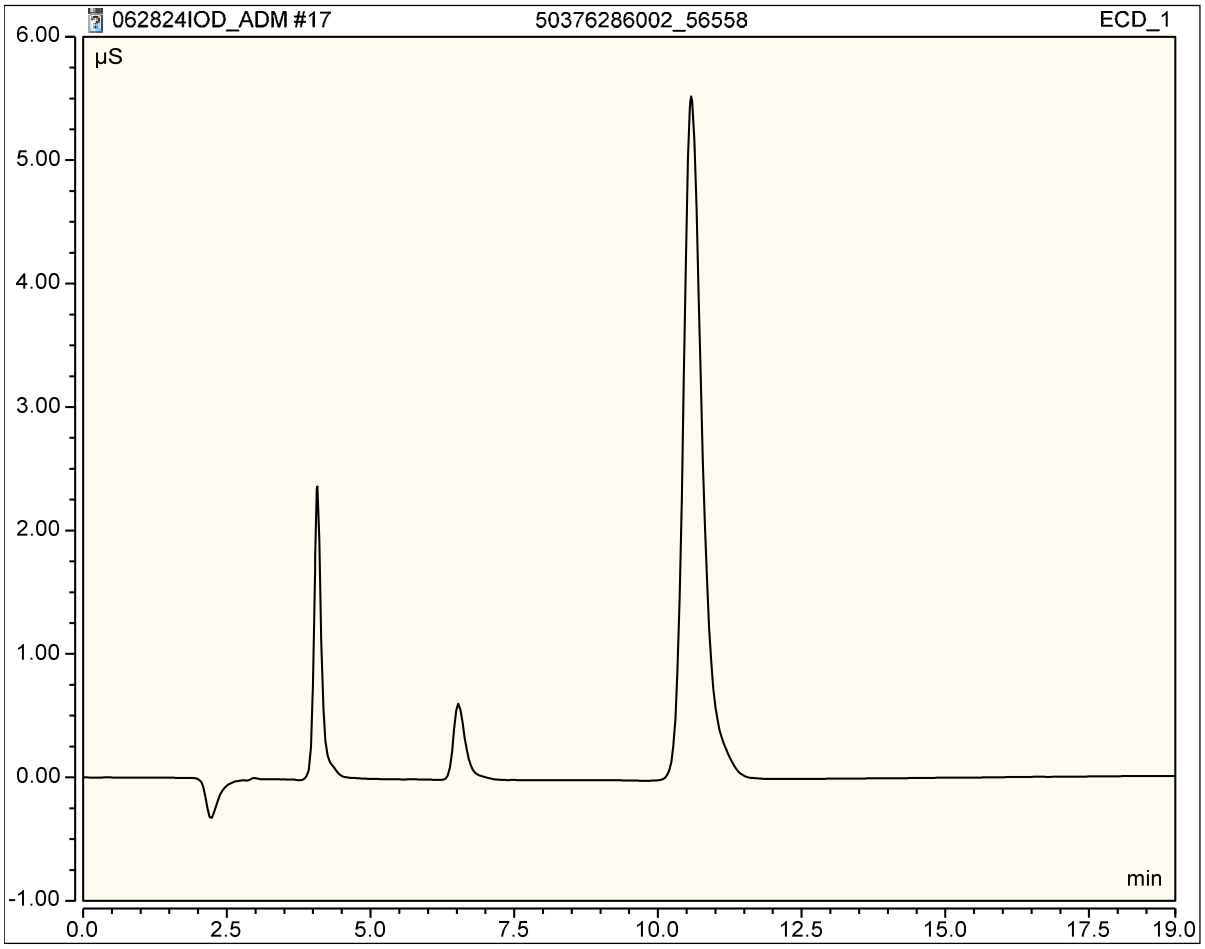
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286002_56558

Sample Name:	**50376286002_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 18:01**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

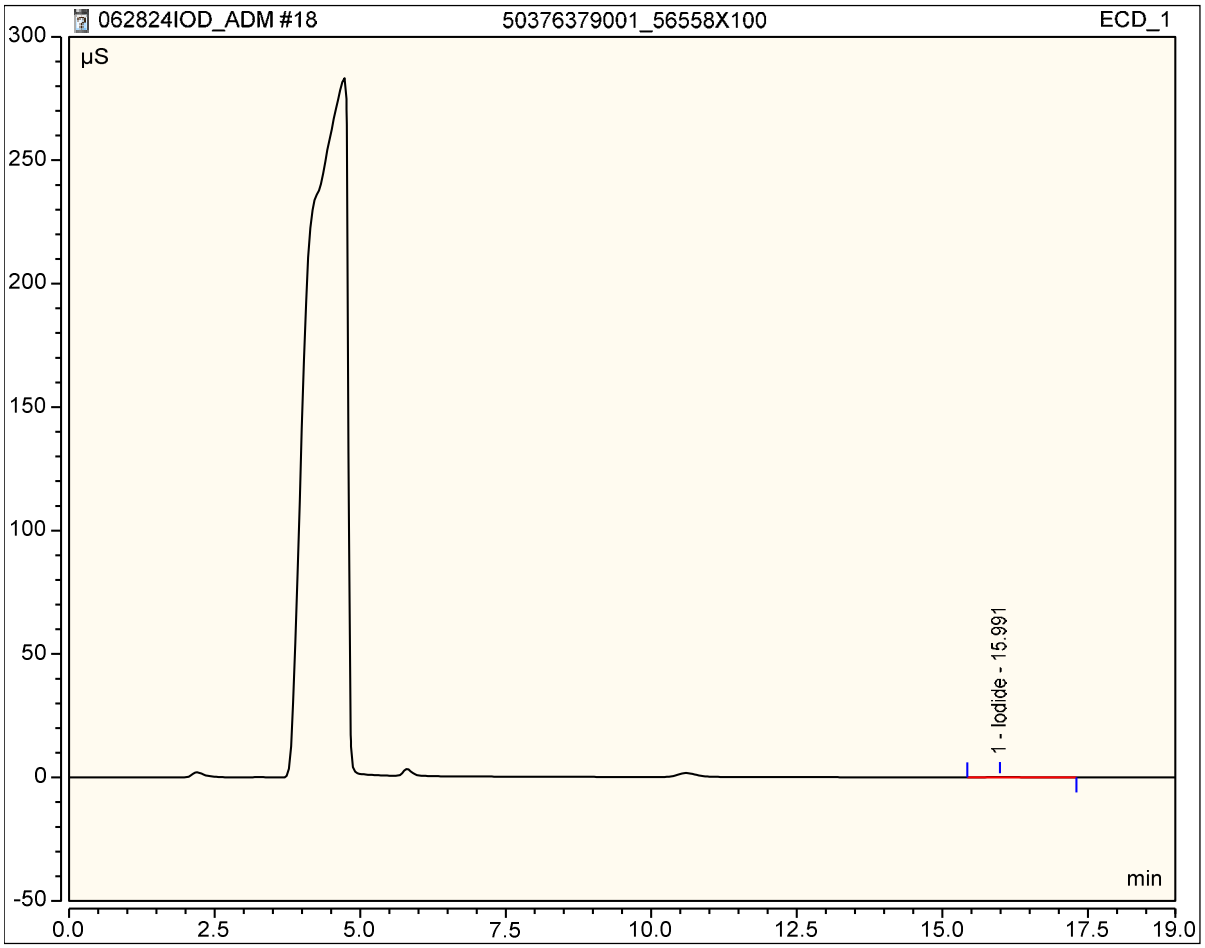
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376379001_56558X100

Sample Name:	**50376379001_56558X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 18:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

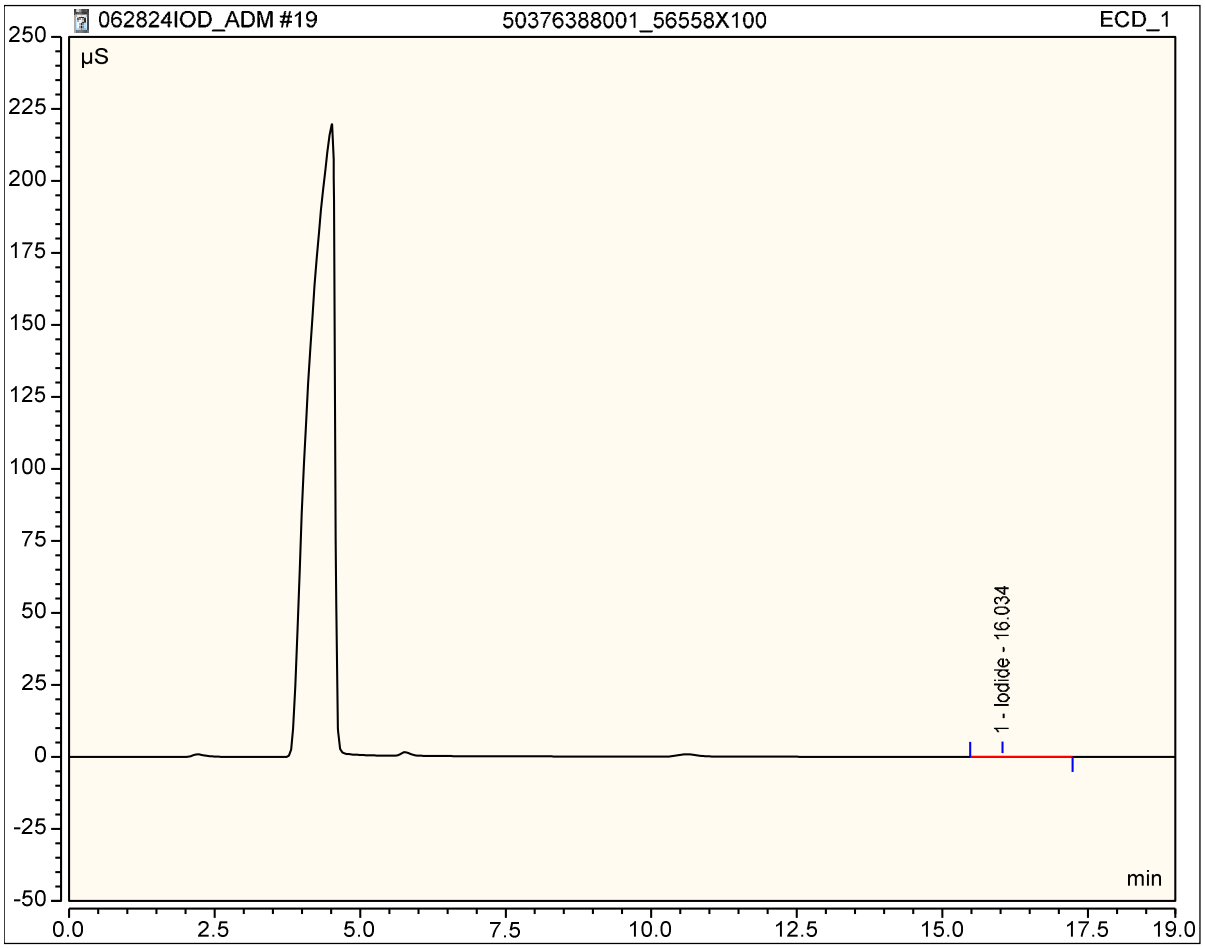
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.99	**Iodide**	2.0055	0.041	0.067	BMB



50376388001_56558X100

Sample Name:	**50376388001_56558X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 18:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

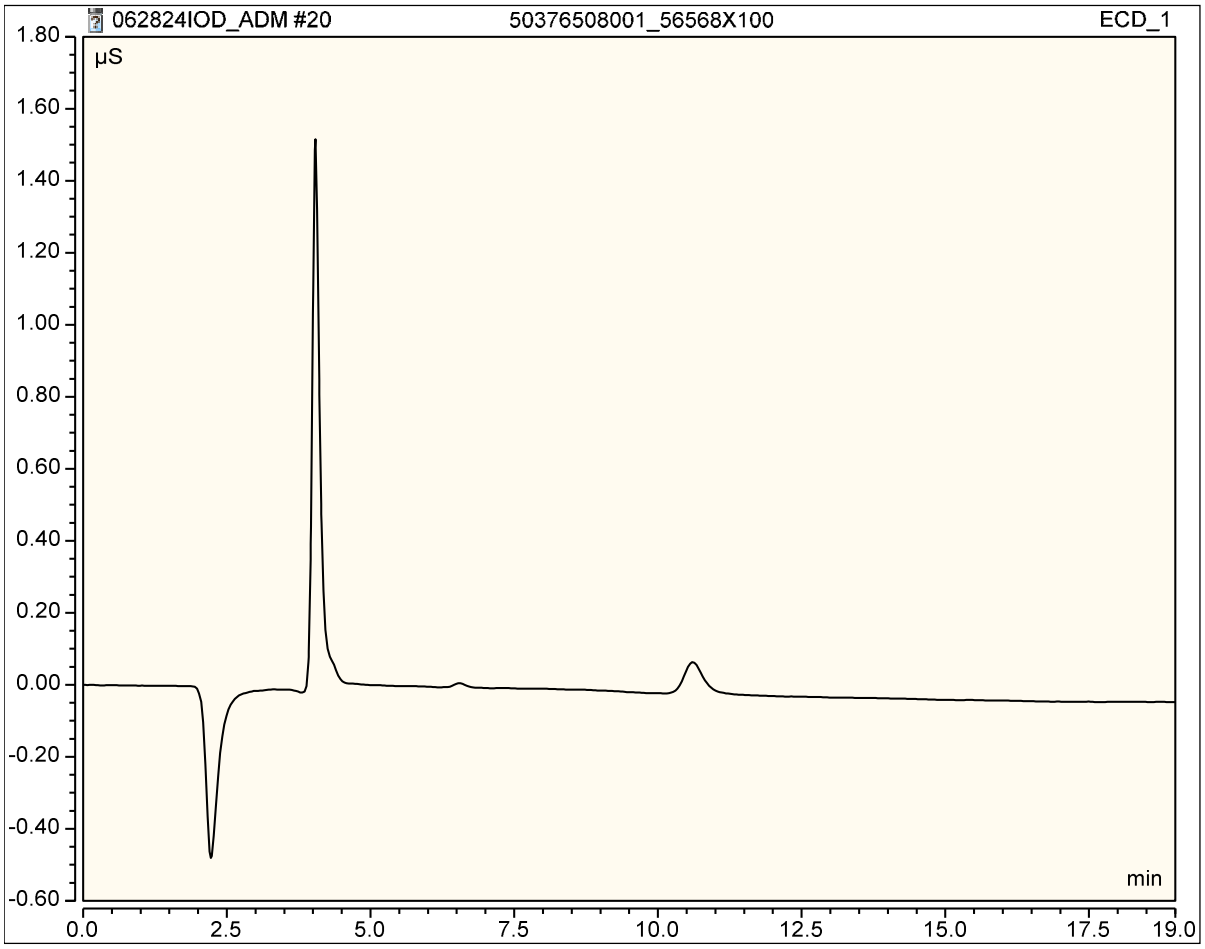
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.03	**Iodide**	1.1053	0.021	0.036	BMB



50376508001_56568X100

Sample Name:	**50376508001_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 19:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

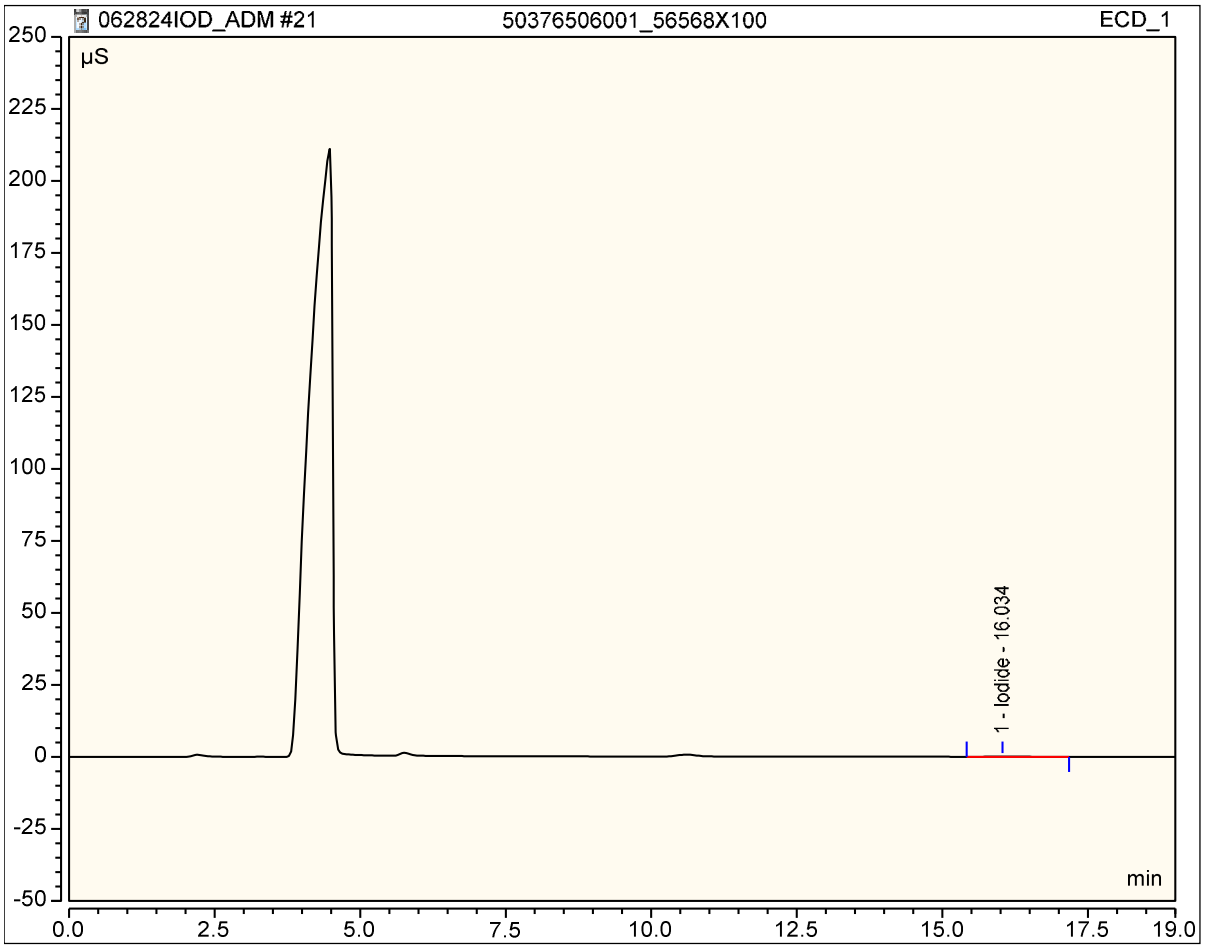
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376506001_56568X100

Sample Name:	**50376506001_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 19:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

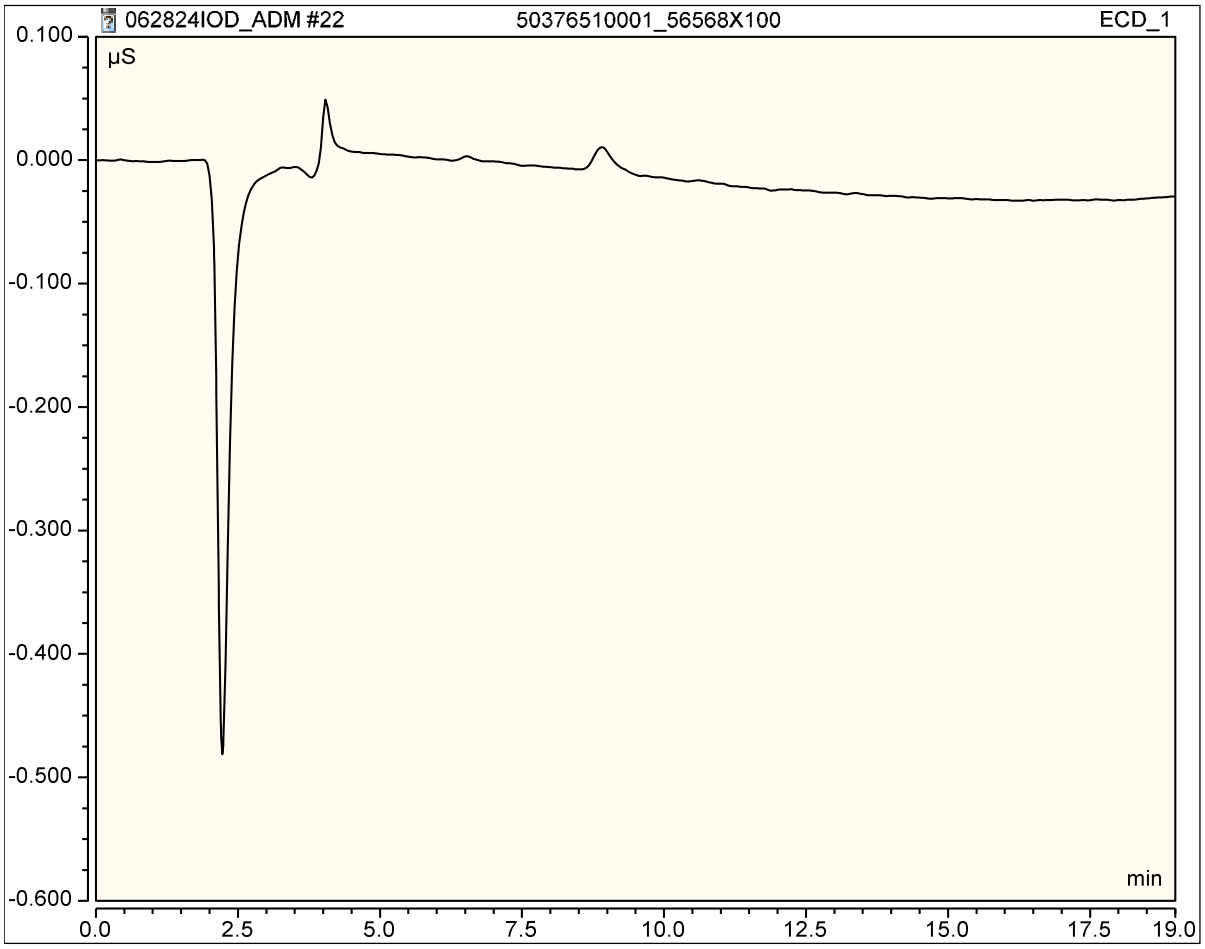
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.03	**Iodide**	0.9331	0.018	0.030	BMB



50376510001_56568X100

Sample Name:	**50376510001_56568X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 19:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

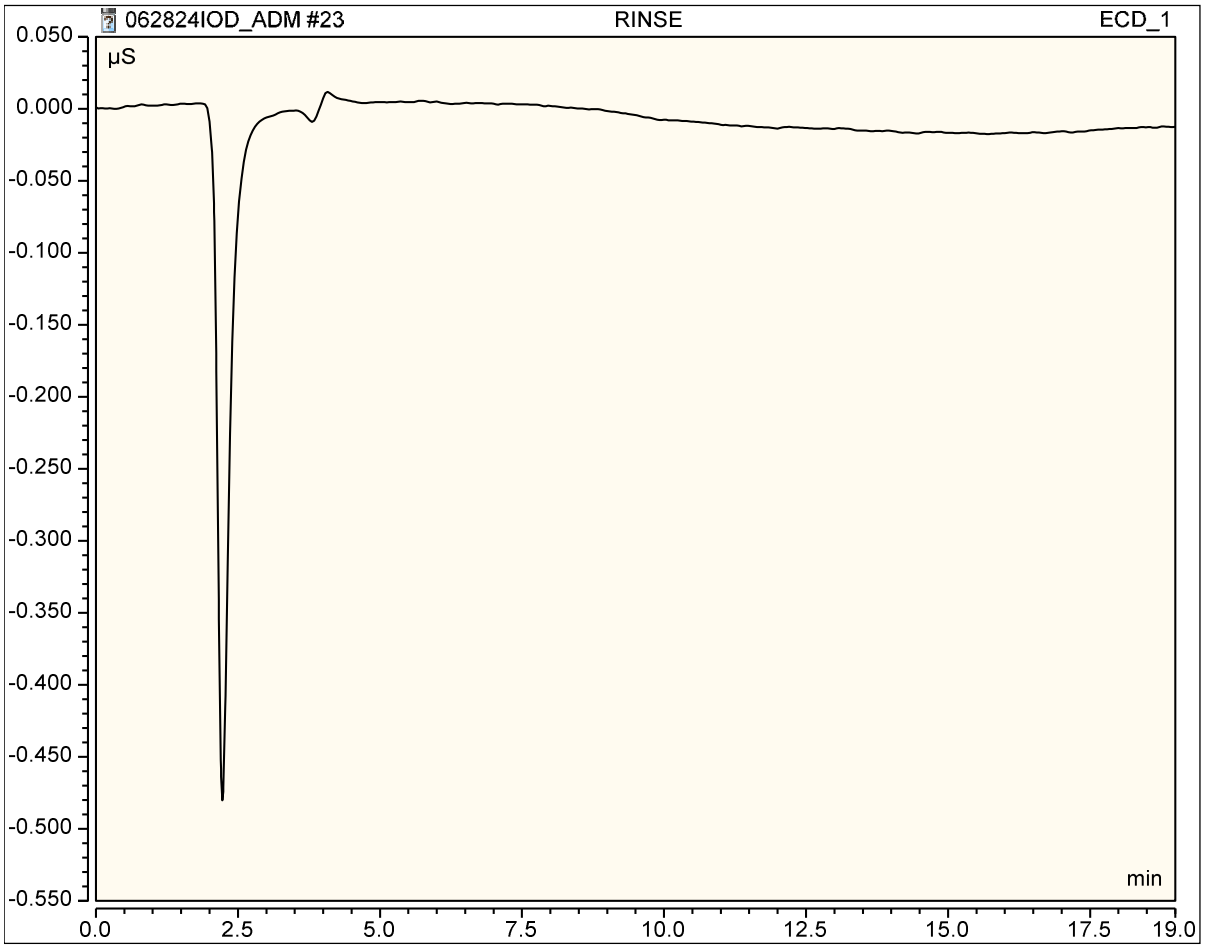
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



RINSE

Sample Name:	**RINSE**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*10*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 20:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

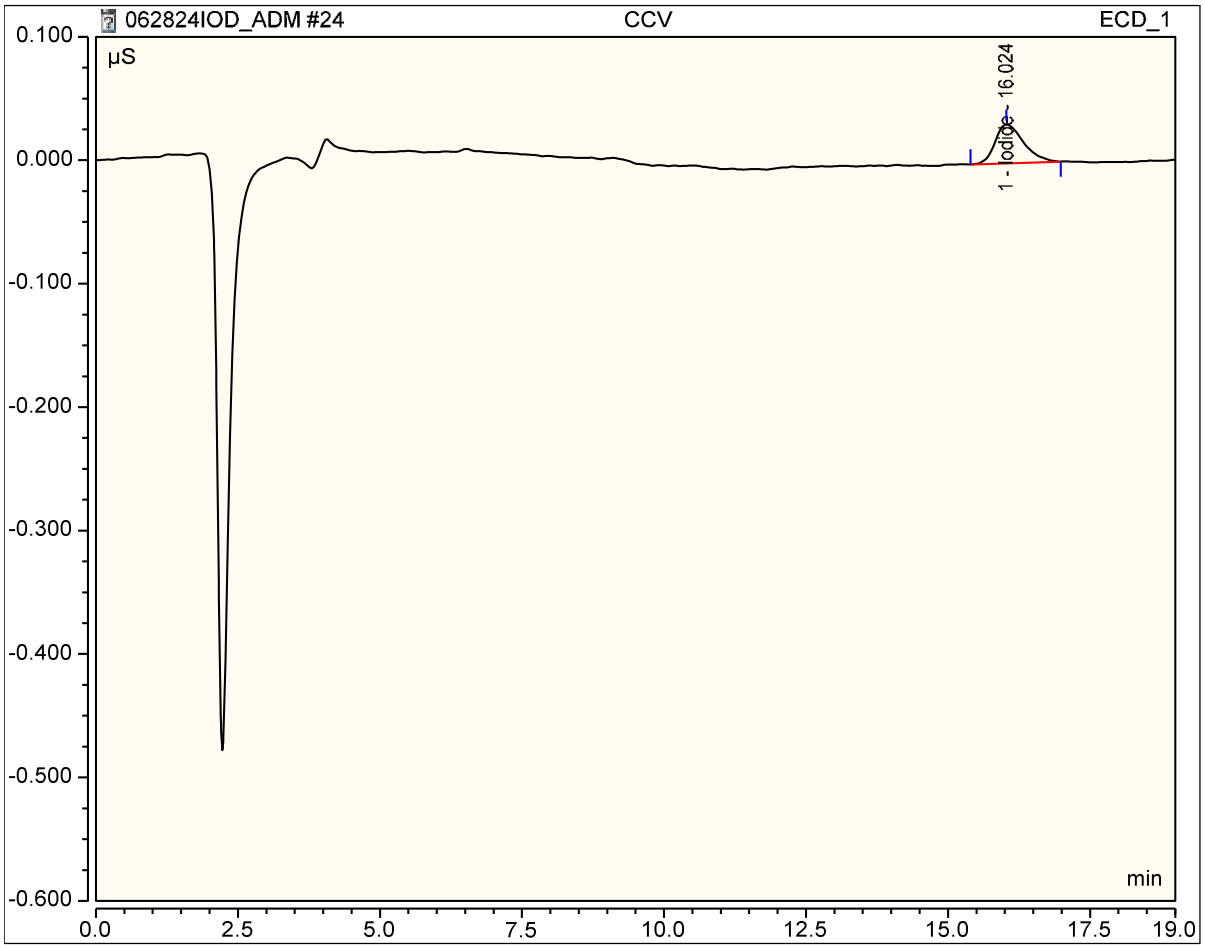
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



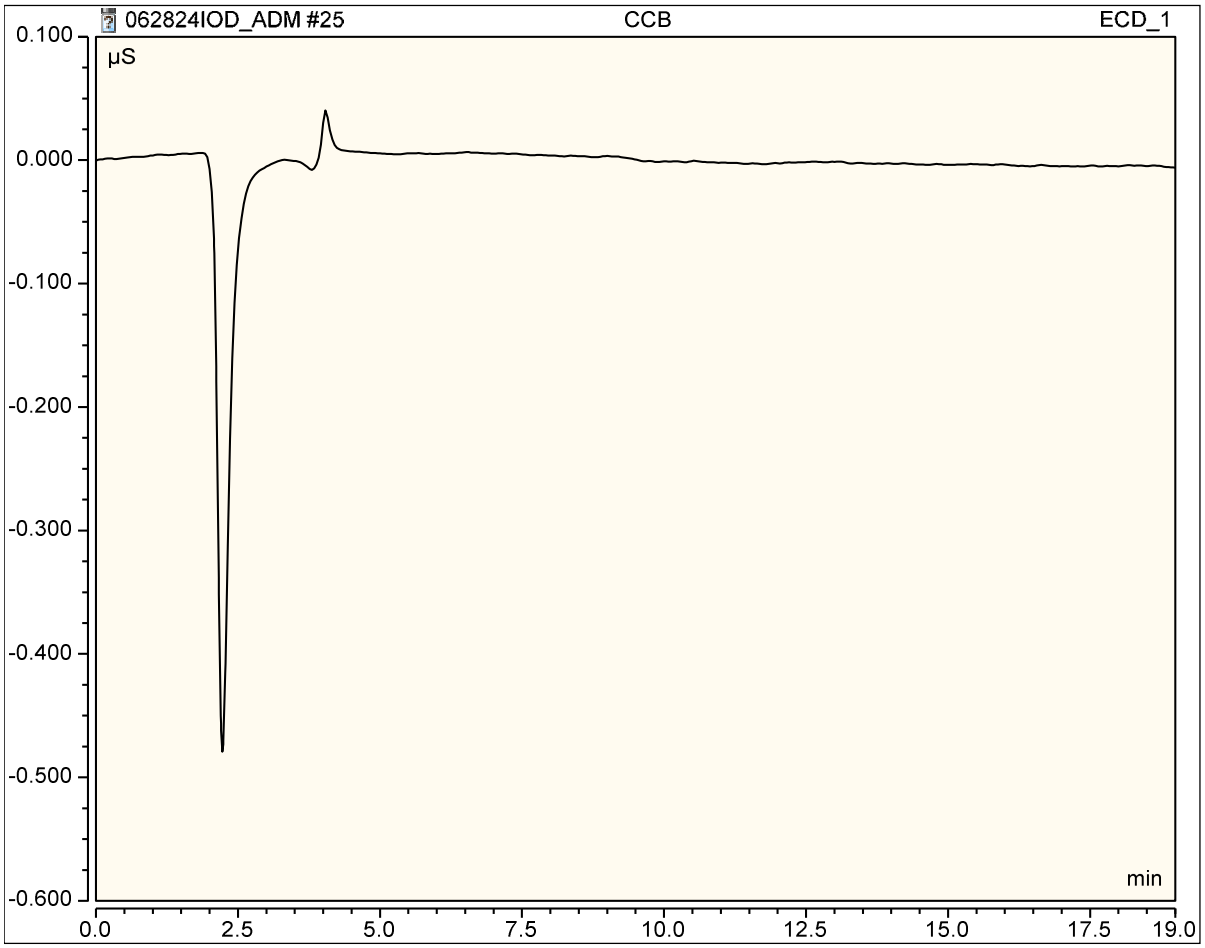
CCV

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 20:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.02	**Iodide**	0.9591	0.018	0.031	BMB



CCB

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 20:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type