Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2511529

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Project Name:	CORAM MATERIALS	**Lab Number:**	L2511529
Project Number:	2232.0006Y005	**Report Date:**	03/18/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2511529-01	MW-11D	WATER	416 MILLER PLACE-YAPHANK ROAD	03/03/25 14:20	03/03/25

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission

March 18, 2025: This final report includes the results of all requested analyses.

March 10, 2025: This is a preliminary report.

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

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

Nitrogen, Nitrite

The WG2036273-4 MS recovery performed on L2511529-01 is outside the acceptance criteria for nitrogen, nitrite (72%); however, the associated LCS recovery is within criteria. No further action was taken.

Solids, Total Dissolved

The WG2036703-3 Laboratory Duplicate RPD performed on L2511529-01 is outside the acceptance criteria for solids, total dissolved (37%). The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature: Kelly Stenstrom Report Date: 03/18/25

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

TYPICAL INSTRUMENT PARAMETERS

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Pace Job Number : L2511529

Received : 03-MAR-2025
Reviewer : Maile Kolton

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

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.5	

Condition Information

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

Volatile Organics/VPH

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

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Mar 18 2025, 03:09 pm

Login Number: L2511529
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005
Received: 03MAR25 Due Date: 18MAR25

Sample #	Client ID	Mat	PR	Collected
L2511529-01	MW-11D	S0	1	03MAR25 14:20

NYTCL-8260: Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville 772468624845 29.65 IN Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound 772468242659 34.91 Galbraith ASP-B Package Due Date: 03/18/25

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

Logged By: Jennifer Byrnes

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 3

Date Rec'd in Lab 3/4/25

L2511529 10MAR25
ROUX – NY

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #: 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540/TSS-2540	Cl-4500/ Br-300	NO3-4500	NO2-4500	TOTALNITROGEN(tkn 35	Total Bottles
11529-01	MW-11D	3/3/25	1420	AQ	BW	X	X	X	X	X	X	X	X	14

Sample Filtration
☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

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

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
Ashley Iervolino	3/3/25 1500	WIFI Place	1500 3/3/25
WIFI Place	3/3/25 1920		3/3/25 1921
	3/4/25 0110		3/4 0110

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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

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

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

Page 2 of 3

Date Rec'd in Lab: 3/4/25

ALPHA Job #: L2511529

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project #: 2232.00006
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

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

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

SUB IODIDE send from WB to PACE INDY/ SUB AMMONIUM send from WB to Galbraith Laboratories

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500	Alk-HCO3-2320	Alk-CO3-2320	F-4500	TPO4-4500	SUB-IODIDE	SUB-AMMONIUM	Total Bottles
11529-01	MW-11D	3/3/2025	1420	AQ	BW	X	X	X	X	X	X	X	16
Container Type						P	P	P	P	A	P	P	
Preservative						A	A	A	A	D	A	D	

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	3/3/25 1500	WIFI Pace	3/3/25 1500
WIFI Pace	3/3/25 1920		3/3/25 1921
	3/3/25 3/4/25 0110		3/3/25 2230 3/4 0110

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 3 of 3

Date Rec'd in Lab

ALPHA Job #

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project #: 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

ANALYSIS

SUB-SULFIDE

Sample Filtration

☐ Done
☐ Lab to do

Preservation
☐ Lab to do

(Please Specify below)

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SUB-SULFIDE	Sample Specific Comments	Total Bottles
	MW-11D	3/3/25	1420	AQ	BW	X		12

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

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

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

Container Type	P								
Preservative	C								

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/3/25 1500	WITH Pace	3/3/25 1500

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

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

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

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

Lab Number: L2511529
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-11D (L2511529-01)	104	99	109	106	0
WG2037848-3LCS	106	103	110	99	0
WG2037848-4LCSD	107	101	112	100	0
WG2037848-5BLANK	103	98	112	101	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2037848-3 **Analysis Date** : 03/07/25 06:59	**File ID**	: VE250307A01
LCSD Sample ID	: WG2037848-4 **Analysis Date** : 03/07/25 07:23	**File ID**	: VE250307A02

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
Methylene chloride	10	10	100	10	9.1	91	9		70-130	20
1,1-Dichloroethane	10	11	110	10	9.5	95	15		70-130	20
Chloroform	10	11	110	10	9.4	94	16		70-130	20
Carbon tetrachloride	10	11	110	10	9.2	92	18		63-132	20
1,2-Dichloropropane	10	12	120	10	9.7	97	21	Q	70-130	20
Dibromochloromethane	10	11	110	10	9.0	90	20		63-130	20
1,1,2-Trichloroethane	10	10	100	10	9.2	92	8		70-130	20
Tetrachloroethene	10	12	120	10	9.9	99	19		70-130	20
Chlorobenzene	10	10	100	10	8.7	87	14		75-130	20
Trichlorofluoromethane	10	7.6	76	10	6.3	63	19		62-150	20
1,2-Dichloroethane	10	11	110	10	9.4	94	16		70-130	20
1,1,1-Trichloroethane	10	11	110	10	9.0	90	20		67-130	20
Bromodichloromethane	10	11	110	10	9.2	92	18		67-130	20
trans-1,3-Dichloropropene	10	11	110	10	8.9	89	21	Q	70-130	20
cis-1,3-Dichloropropene	10	11	110	10	9.6	96	14		70-130	20
Bromoform	10	10	100	10	8.6	86	15		54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	9.3	93	7		67-130	20
Benzene	10	11	110	10	8.8	88	22	Q	70-130	20
Toluene	10	10	100	10	8.6	86	15		70-130	20
Ethylbenzene	10	10	100	10	8.5	85	16		70-130	20
Chloromethane	10	9.3	93	10	7.5	75	21	Q	64-130	20
Bromomethane	10	6.4	64	10	5.2	52	21	Q	39-139	20
Vinyl chloride	10	8.8	88	10	7.1	71	21	Q	55-140	20
Chloroethane	10	8.1	81	10	7.2	72	12		55-138	20
1,1-Dichloroethene	10	7.9	79	10	7.0	70	12		61-145	20
trans-1,2-Dichloroethene	10	11	110	10	9.3	93	17		70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2037848-3 **Analysis Date** : 03/07/25 06:59	**File ID**	: VE250307A01
LCSD Sample ID	: WG2037848-4 **Analysis Date** : 03/07/25 07:23	**File ID**	: VE250307A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	11	110	10	9.0	90	20	70-130	20
1,2-Dichlorobenzene	10	11	110	10	9.1	91	19	70-130	20
1,3-Dichlorobenzene	10	11	110	10	9.0	90	20	70-130	20
1,4-Dichlorobenzene	10	10	100	10	8.8	88	13	70-130	20
Methyl tert butyl ether	10	11	110	10	9.4	94	16	63-130	20
p/m-Xylene	20	20	100	20	17	85	16	70-130	20
o-Xylene	20	20	100	20	17	85	16	70-130	20
cis-1,2-Dichloroethene	10	11	110	10	9.2	92	18	70-130	20
Styrene	20	19	95	20	16	80	17	70-130	20
Dichlorodifluoromethane	10	7.6	76	10	6.5	65	16	36-147	20
Acetone	10	12	120	10	9.7	97	21 Q	58-148	20
Carbon disulfide	10	8.1	81	10	7.0	70	15	51-130	20
2-Butanone	10	14	140 Q	10	12	120	15	63-138	20
4-Methyl-2-pentanone	10	9.6	96	10	9.4	94	2	59-130	20
2-Hexanone	10	10	100	10	9.6	96	4	57-130	20
Bromochloromethane	10	11	110	10	9.4	94	16	70-130	20
1,2-Dibromoethane	10	11	110	10	9.7	97	13	70-130	20
1,2-Dibromo-3-chloropropane	10	10	100	10	9.1	91	9	41-144	20
Isopropylbenzene	10	11	110	10	9.0	90	20	70-130	20
1,2,3-Trichlorobenzene	10	10	100	10	9.0	90	11	70-130	20
1,2,4-Trichlorobenzene	10	11	110	10	9.2	92	18	70-130	20
Methyl Acetate	10	11	110	10	9.9	99	11	70-130	20
Cyclohexane	10	11	110	10	9.0	90	20	70-130	20
Freon-113	10	7.9	79	10	7.1	71	11	70-130	20
Methyl cyclohexane	10	9.8	98	10	8.1	81	19	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2037848-5	**Lab File ID**	: VE250307A05
Instrument ID	: ELAINE		
Matrix	: WATER	**Analysis Date**	: 03/07/25 08:37

Client Sample No.	Lab Sample ID	Analysis Date
WG2037848-3LCS	WG2037848-3	03/07/25 06:59
WG2037848-4LCSD	WG2037848-4	03/07/25 07:23
MW-11D	L2511529-01	03/07/25 17:13

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: ELAINE	**Analysis Date**	: 02/20/25 22:12
Tune Standard	: WG2033412-1	**Tune File ID**	: VE250220NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 80.0% of mass 95	54.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	5.9 (7.1)1
176	Greater than 95.0% but less than 101% of mass	81.3 (97.6)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1933810-1	VE250220N04	02/20/25 23:45
STD0.5PPB	R1933810-2	VE250220N06	02/21/25 00:33
STD2PPB	R1933810-3	VE250220N08	02/21/25 01:22
STD10PPB	R1933810-4	VE250220N10	02/21/25 02:10
STD30PPB	R1933810-5	VE250220N11	02/21/25 02:34
STD80PPB	R1933810-6	VE250220N12	02/21/25 02:58
STD120PPB	R1933810-7	VE250220N13	02/21/25 03:22
STD200PPB	R1933810-8	VE250220N14	02/21/25 03:46
Correlation Data Summary	R1933810-9	VE250220N19	02/21/25 05:47
ICV Quant Report	R1933810-9	VE250220N19	02/21/25 05:47

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: ELAINE	**Analysis Date**	: 03/07/25 06:45
Tune Standard	: WG2037848-1	**Tune File ID**	: VE250307ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 80.0% of mass 95	51.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (.7)1
174	Greater than 50.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	5.6 (6.7)1
176	Greater than 95.0% but less than 101% of mass	79.8 (95.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2037848-2CCAL	WG2037848-2	VE250307A01	03/07/25 06:59
WG2037848-3LCS	WG2037848-3	VE250307A01	03/07/25 06:59
WG2037848-4LCSD	WG2037848-4	VE250307A02	03/07/25 07:23
WG2037848-5BLANK	WG2037848-5	VE250307A05	03/07/25 08:37
MW-11D	L2511529-01	VE250307A26	03/07/25 17:13

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: ELAINE	**Analysis Date**	: 03/07/25 06:59:00
Sample No	: WG2037848-2	**Lab File ID**	: VE250307A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2037848-2	358002	5.76	268415	9.28	143026	12.03
Upper Limit	716004	6.26	536830	9.78	286052	12.53
Lower Limit	179001	5.26	134208	8.78	71513	11.53
Sample ID						
WG2037848-3 LCS	358002	5.76	268415	9.28	143026	12.03
WG2037848-4 LCSD	361270	5.76	273723	9.28	145467	12.03
WG2037848-5 BLANK	338279	5.76	246281	9.28	137104	12.03
MW-11D	290886	5.76	211332	9.28	120947	12.03

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

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

* Values outside of QC limits

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Volatile Organics - EPA 8260D (WATER)

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

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

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

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

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

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

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

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VOCs - EPA 8260D/5035 High & Low (SOIL)

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

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

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

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14095-1
Page: 2

VOCs - EPA 8260D/5035 High & Low (SOIL)

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

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

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/07/25 17:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250307A26	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/07/25 17:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250307A26	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/07/25 17:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250307A26	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037848-5	**Date Collected**	: NA
Client ID	: WG2037848-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/25 08:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250307A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037848-5	**Date Collected**	: NA
Client ID	: WG2037848-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/25 08:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250307A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037848-5	**Date Collected**	: NA
Client ID	: WG2037848-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/25 08:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250307A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A26.D
Acq On : 7 Mar 2025 5:13 pm
Operator : ELAINE:PID
Sample : l2511529-01,31,10,10,,a
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 08 13:58:01 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250307A\VE250307A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.764	96	290886	10.000	ug/L	-0.01
Standard Area 1 = 358002			Recovery = 81.25%			
63) Chlorobenzene-d5	9.275	117	211332	10.000	ug/L	0.00
Standard Area 1 = 268415			Recovery = 78.73%			
84) 1,4-Dichlorobenzene-d4	12.032	152	120947	10.000	ug/L	0.00
Standard Area 1 = 143026			Recovery = 84.56%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.964	113	84261	10.614	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.14%			
47) 1,2-Dichloroethane-d4	5.482	65	87043	10.358	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.58%			
64) Toluene-d8	7.442	98	277150	9.912	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.12%			
88) 4-Bromofluorobenzene	10.799	95	105184	10.867	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.67%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.778	76	708	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.331	43	2181	1.874	ug/L #	41
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A26.D
Acq On : 7 Mar 2025 5:13 pm
Operator : ELAINE:PID
Sample : l2511529-01,31,10,10,,a
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 08 13:58:01 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250307A\VE250307A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	5.087	43	1652	1.019	ug/L #	23
45)	Benzene	0.000		0	N.D.		
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.		
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	0.000		0	N.D.		
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.		
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.		
78)	Chlorobenzene	0.000		0	N.D.		
79)	Ethylbenzene	9.266	91	521	N.D.		
81)	p/m Xylene	0.000		0	N.D.		
82)	o Xylene	0.000		0	N.D.		
83)	Styrene	0.000		0	N.D.		
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.		
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.		
106)	1,4-Dichlorobenzene	0.000		0	N.D.		
109)	1,2-Dichlorobenzene	0.000		0	N.D.		
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

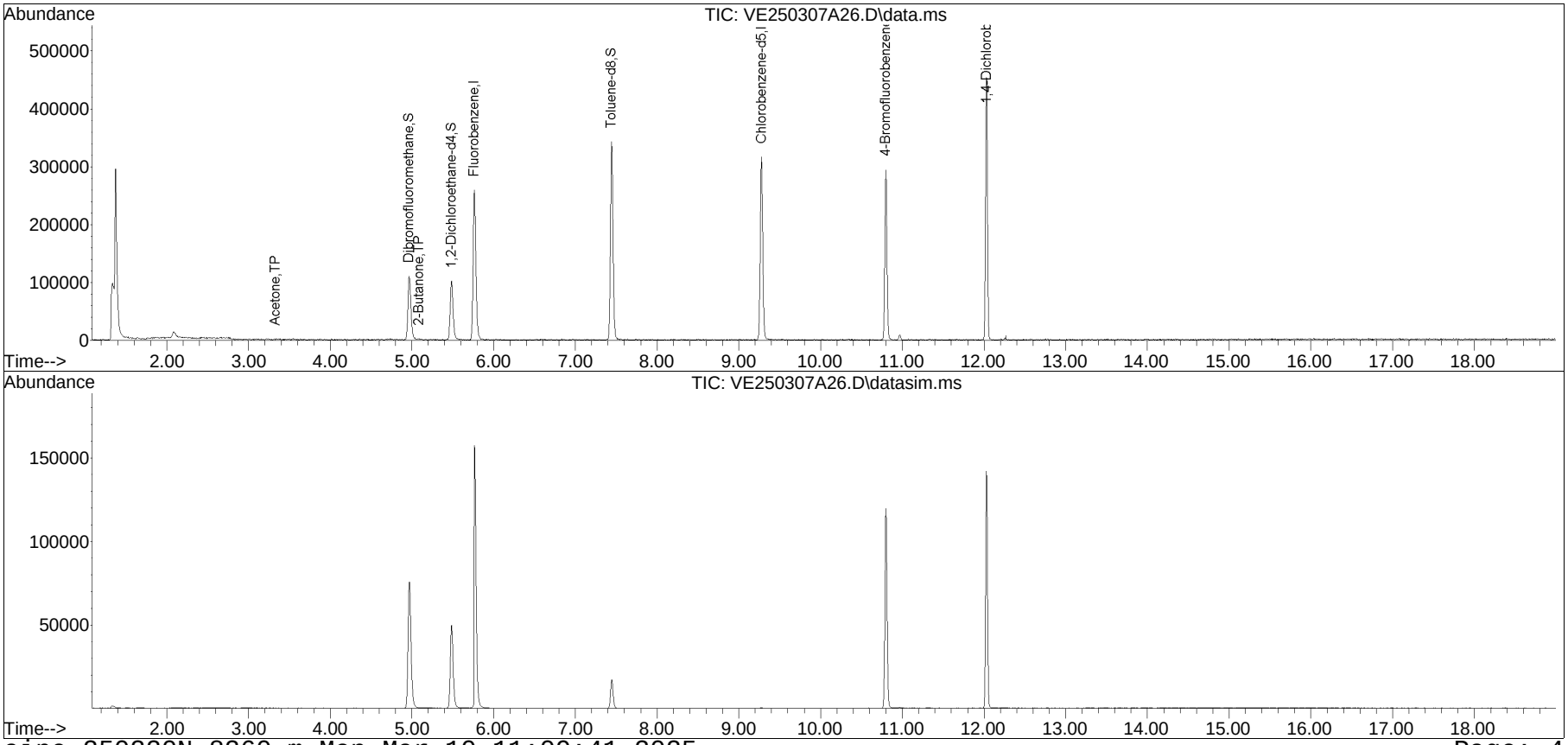
(#) = qualifier out of range (m) = manual integration (+) = signals summed

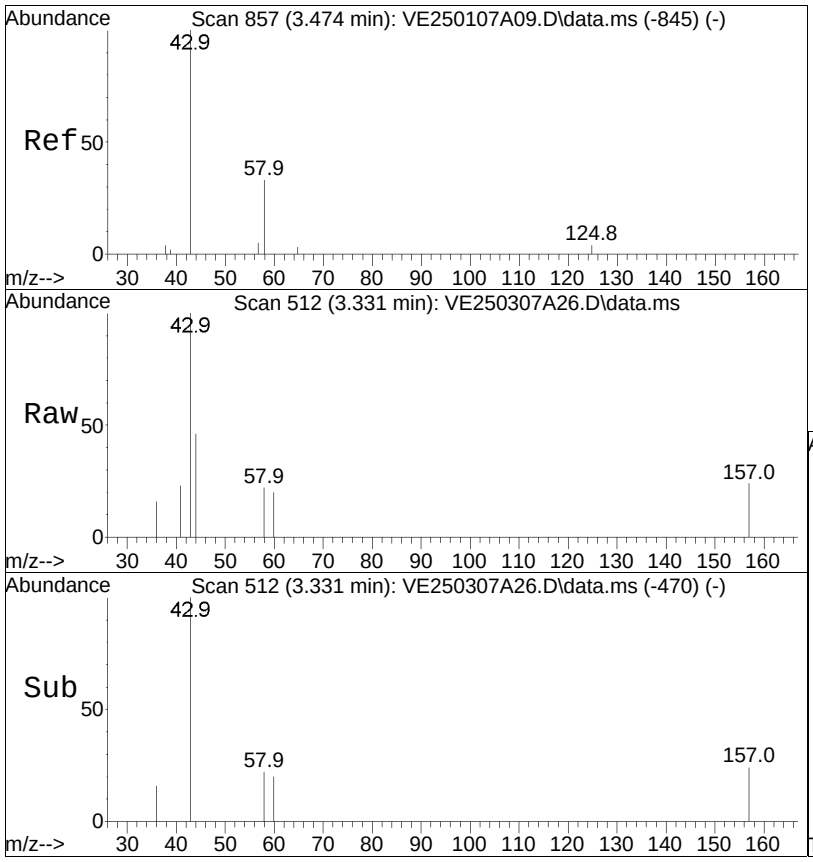
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A26.D
Acq On : 7 Mar 2025 5:13 pm
Operator : ELAINE:PID
Sample : l2511529-01,31,10,10,,a
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 08 13:58:01 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

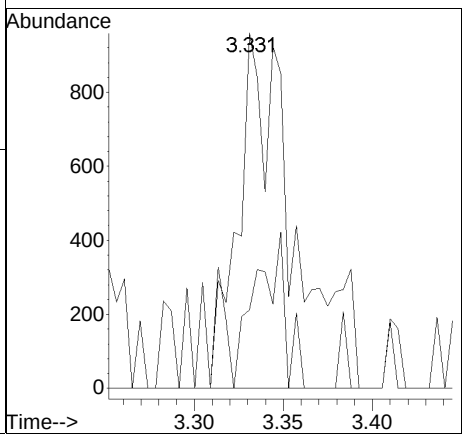


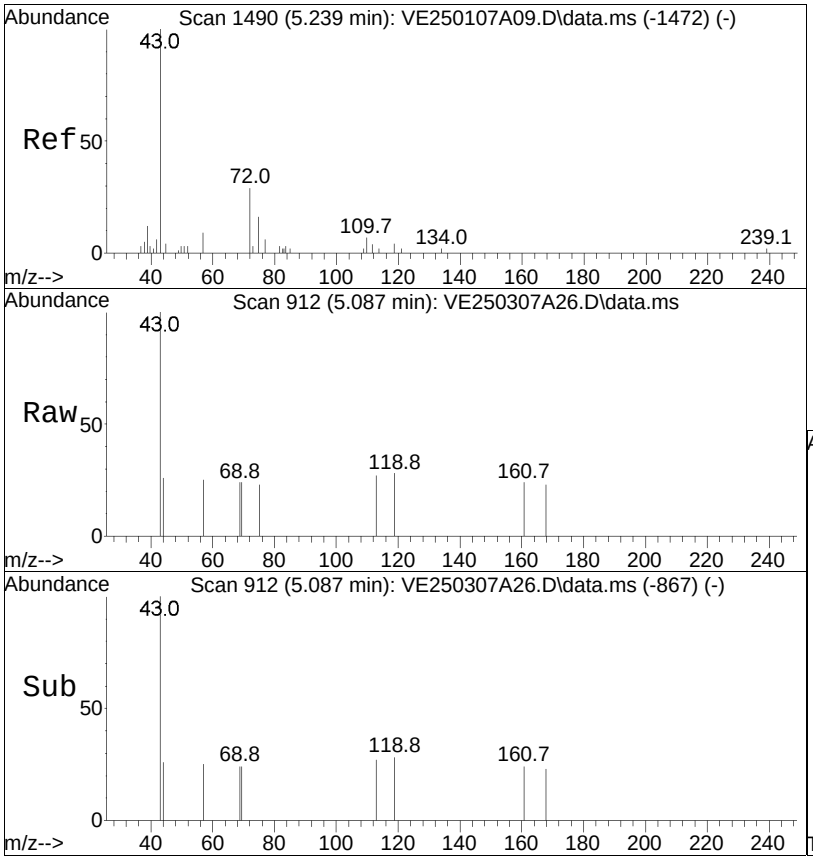


#17
Acetone
Concen: 1.87 ug/L
RT: 3.331 min Scan# 512
Delta R.T. -0.017 min
Lab File: VE250307A26.D
Acq: 7 Mar 2025 5:13 pm

Tgt Ion: 43 Resp: 2181

Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.6	40.0#

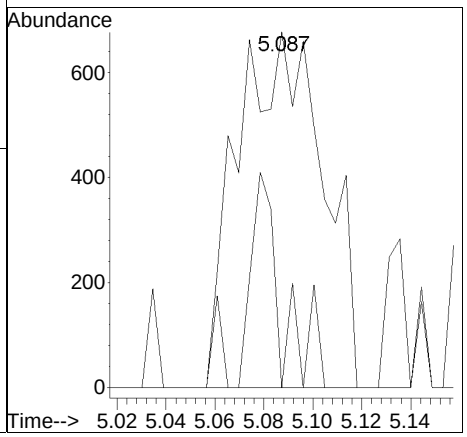




#42
2-Butanone
Concen: 1.02 ug/L
RT: 5.087 min Scan# 912
Delta R.T. -0.001 min
Lab File: VE250307A26.D
Acq: 7 Mar 2025 5:13 pm

Tgt Ion: 43 Resp: 1652

Ion	Ratio	Lower	Upper
43	100		
72	0.0	44.9	67.3#



Manual Integration Report

Data Path	: K:\Elaine\2025\250307A\	QMethod	: Elaine_250220N_8260.m
Data File	: VE250307A26.D	Operator	: ELAINE:PID
Date Inj'd	: 3/7/2025 5:13 pm	Instrument	: Elaine
Sample	: l2511529-01,31,10,10,,a	Quant Date	: 3/8/2025 12:49 pm

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL22018**
Calibration dates	**: 02/20/25 23:45 02/21/25 03:46**		

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.172	0.288	0.300	0.279	0.262	0.254	0.247	0.257	16.40
3)	TP	Chloromethane		0.230	0.249	0.263	0.237	0.222	0.213	0.210	0.232	8.28
4)	TP	Vinyl chloride	0.299	0.242	0.351	0.335	0.313	0.296	0.291	0.283	0.301	11.09
5)	TP	Bromomethane		0.214	0.301	0.289	0.268	0.264	0.262	0.263	0.266	10.33
6)	TP	Chloroethane		0.188	0.260	0.262	0.237	0.228	0.221	0.218	0.231	11.16
7)	TP	Trichlorofluor		0.418	0.582	0.590	0.540	0.510	0.505	0.490	0.519	11.32
8)	TP	Ethyl ether		0.125	0.163	0.170	0.162	0.157	0.155	0.152	0.155	9.44
10)	TP	1,1-Dichloroet		0.225	0.309	0.310	0.297	0.281	0.271	0.273	0.281	10.48
11)	TP	Carbon disulfide		0.635	0.883	0.851	0.866	0.802	0.746	0.759	0.792	10.96
12)	TP	Freon-113			0.278	0.284	0.297	0.266	0.243	0.250	0.270	7.73
13)	TP	Iodomethane		0.225	0.284	0.292	0.283	0.278	0.274	0.279	0.273	8.15
14)	TP	Acrolein			0.022	0.022	0.022	0.023	0.023	0.023	0.022	2.96
15)	TP	Methylene chlo		0.255	0.255	0.249	0.230	0.222	0.218	0.220	0.235	7.00
17)	TP	Acetone			0.049	0.038	0.041	0.039	0.036	0.036	0.040	12.18
18)	TP	trans-1,2-Dich		0.197	0.243	0.241	0.222	0.216	0.211	0.213	0.220	7.50
19)	TP	Methyl acetate			0.113	0.106	0.097	0.095	0.094	0.094	0.100	8.05
21)	TP	Methyl tert butyl ether		0.423	0.489	0.519	0.539	0.559	0.551	0.555	0.519	9.43
22)	TP	tert-Butyl alc			0.007	0.010	0.010	0.010	0.010	0.009	0.009#	12.17
24)	TP	Diisopropyl ether		0.479	0.558	0.583	0.576	0.599	0.595	0.609	0.571	7.74
25)	TP	1,1-Dichloroet		0.391	0.456	0.441	0.413	0.391	0.378	0.380	0.407	7.57
26)	TP	Halothane		0.115	0.179	0.182	0.172	0.166	0.162	0.163	0.163	13.84
27)	TP	Acrylonitrile			0.052	0.055	0.051	0.050	0.048	0.050	0.051	5.22
28)	TP	Ethyl tert-but		0.432	0.519	0.544	0.555	0.596	0.603	0.630	0.554	11.94
29)	TP	Vinyl acetate			0.346	0.382	0.415	0.410	0.444	0.431	0.405	8.81
30)	TP	cis-1,2-Dichlo		0.235	0.287	0.279	0.259	0.249	0.243	0.244	0.257	7.60
31)	TP	2,2-Dichloropr		0.295	0.377	0.359	0.352	0.336	0.322	0.321	0.337	8.14
33)	TP	Bromochloromet		0.108	0.128	0.127	0.117	0.114	0.111	0.115	0.117	6.70
34)	TP	Cyclohexane		0.281	0.387	0.429	0.410	0.388	0.379	0.376	0.378	12.40
35)	TP	Chloroform		0.388	0.455	0.437	0.404	0.386	0.372	0.380	0.403	7.76
36)	TP	Ethyl acetate			0.118	0.131	0.137	0.140	0.136	0.135	0.133	5.81
37)	TP	Carbon tetrachloride	0.256	0.223	0.316	0.331	0.326	0.314	0.304	0.317	0.298	12.75
38)	TP	Tetrahydrofuran			0.044	0.046	0.042	0.040	0.039	0.041	0.042	6.02
39)	S	Dibromofluoromethane	0.301	0.300	0.285	0.282	0.266	0.255	0.247	0.248	0.273	8.04
40)	TP	1,1,1-Trichlor		0.243	0.358	0.374	0.356	0.335	0.326	0.329	0.332	12.85
42)	TP	2-Butanone			0.052	0.055	0.058	0.059	0.055	0.056	0.056	4.70

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL22018**
Calibration dates	**: 02/20/25 23:45 02/21/25 03:46**		

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
43) TP	1,1-Dichloropr		0.205	0.271	0.284	0.290	0.283	0.275	0.277	0.269	10.84
45) TP	Benzene	0.921	0.740	0.889	0.905	0.906	0.908	0.902	0.930	0.888	6.86
46) TP	Tertiary-Amyl Methyl Ether		0.469	0.492	0.518	0.517	0.545	0.551	0.577	0.524	7.02
47) S	1,2-Dichloroethane-d4	0.304	0.300	0.301	0.299	0.289	0.266	0.275	0.278	0.289	4.98
48) T	1,2-Dichloroethane	0.265	0.290	0.298	0.299	0.280	0.273	0.268	0.270	0.280	4.86
51) TP	Methyl cyclohe		0.255	0.386	0.415	0.411	0.419	0.428	0.445	0.394	16.21
52) TP	Trichloroethene	0.160	0.159	0.213	0.227	0.233	0.239	0.236	0.256	0.215	16.99
54) TP	Dibromomethane		0.127	0.143	0.143	0.135	0.133	0.130	0.133	0.135	4.53
55) TP	1,2-Dichloropr		0.150	0.207	0.224	0.224	0.223	0.217	0.218	0.209	12.84
57) TP	2-Chloroethyl		0.063	0.067	0.089	0.093	0.100	0.099	0.101	0.087	18.08
58) TP	Bromodichlorom		0.253	0.293	0.315	0.318	0.311	0.304	0.309	0.300	7.48
61) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	11.82
62) TP	cis-1,3-Dichloropropene	0.218	0.241	0.310	0.341	0.367	0.375	0.370	0.378	0.325	19.48
63) I	Chlorobenzene-d5	----------ISTD----------									
64) S	Toluene-d8	1.375	1.381	1.352	1.353	1.332	1.298	1.269	1.226	1.323	4.12
65) TP	Toluene		0.652	0.749	0.792	0.756	0.760	0.753	0.773	0.748	6.00
66) TP	4-Methyl-2-pen			0.060	0.063	0.065	0.065	0.065	0.064	0.064	3.59
67) TP	Tetrachloroethene	0.266	0.232	0.289	0.302	0.300	0.300	0.300	0.312	0.288	9.09
69) TP	trans-1,3-Dichloropropene	0.286	0.253	0.318	0.362	0.404	0.426	0.420	0.424	0.362	18.89
71) TP	Ethyl methacry		0.172	0.229	0.279	0.278	0.275	0.277	0.278	0.255	16.05
72) TP	1,1,2-Trichlor		0.146	0.172	0.187	0.194	0.204	0.203	0.208	0.188#	11.86
73) TP	Chlorodibromom		0.182	0.210	0.253	0.280	0.300	0.300	0.305	0.261	18.59
74) TP	1,3-Dichloropr		0.295	0.369	0.396	0.412	0.422	0.414	0.410	0.388	11.51
75) TP	1,2-Dibromoethane		0.153	0.194	0.222	0.229	0.237	0.234	0.235	0.215	14.48
77) TP	2-Hexanone		0.069	0.092	0.109	0.112	0.112	0.108	0.108	0.102	15.65
78) TP	Chlorobenzene		0.740	0.854	0.883	0.863	0.865	0.864	0.888	0.851	5.92
79) TP	Ethylbenzene		1.195	1.460	1.547	1.565	1.559	1.555	1.600	1.497	9.34
80) TP	1,1,1,2-Tetrac		0.197	0.239	0.258	0.273	0.291	0.293	0.306	0.265	14.22
81) TP	p/m Xylene		0.452	0.574	0.596	0.616	0.639	0.665	0.745	0.613	14.67
82) TP	o Xylene		0.436	0.562	0.586	0.607	0.651	0.678	0.748	0.610	16.18
83) TP	Styrene		0.729	0.897	0.974	1.044	1.142	1.182	1.302	1.039	18.45
84) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85) TP	Bromoform		0.163	0.206	0.263	0.286	0.314	0.325	0.339	*Q	0.9996
87) TP	Isopropylbenzene		2.052	2.741	2.957	2.936	2.875	2.892	2.855	2.758	11.57
88) S	4-Bromofluorobenzene	0.835	0.818	0.826	0.855	0.819	0.768	0.761	0.719	0.800	5.71
89) TP	Bromobenzene		0.524	0.632	0.665	0.635	0.615	0.622	0.615	0.615	7.11

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL22018**
Calibration dates	**: 02/20/25 23:45 02/21/25 03:46**		

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
90) TP	n-Propylbenzene		2.524	3.335	3.548	3.498	3.438	3.489	3.441	3.325	10.80
91) TP	1,4-Dichlorobu		0.572	0.622	0.675	0.627	0.598	0.589	0.570	0.607	6.15
92) TP	1,1,2,2-Tetrachloroethane	0.359	0.484	0.484	0.522	0.500	0.472	0.476	0.452	0.469	10.39
93) TP	4-Ethyltoluene		2.109	2.792	2.980	2.903	2.808	2.841	2.806	2.748	10.55
94) TP	2-Chlorotoluene		1.567	1.903	2.008	2.031	1.890	1.933	1.875	1.887	8.10
95) TP	1,3,5-Trimethy		1.881	2.415	2.558	2.557	2.524	2.582	2.630	2.450	10.59
96) TP	1,2,3-Trichlor		0.348	0.390	0.433	0.400	0.398	0.401	0.404	0.396	6.40
97) TP	trans-1,4-Dich			0.126	0.140	0.142	0.138	0.137	0.128	0.135	4.89
98) TP	4-Chlorotoluene		1.671	1.982	2.073	2.015	1.963	2.002	1.999	1.958	6.70
99) TP	tert-Butylbenzene		1.533	2.026	2.148	2.139	2.119	2.157	2.170	2.042	11.23
102) TP	1,2,4-Trimethy		1.742	2.286	2.503	2.536	2.563	2.573	2.583	2.398	12.80
103) TP	sec-Butylbenzene		2.345	2.992	3.259	3.285	3.242	3.278	3.267	3.096	11.20
104) TP	p-Isopropyltol		1.987	2.599	2.810	2.853	2.870	2.891	2.989	2.714	12.59
105) TP	1,3-Dichlorobe		1.237	1.314	1.364	1.351	1.352	1.362	1.392	1.339	3.77
106) TP	1,4-Dichlorobe		1.171	1.306	1.382	1.355	1.344	1.355	1.413	1.332	5.89
107) TP	p-Diethylbenzene		1.053	1.474	1.675	1.716	1.727	1.765	1.850	1.609	16.82
108) TP	n-Butylbenzene		1.566	2.261	2.433	2.538	2.507	2.475	2.517	2.328	14.98
109) TP	1,2-Dichlorobe		1.178	1.233	1.301	1.262	1.258	1.261	1.312	1.258	3.54
110) TP	1,2,4,5-Tetram		1.774	2.281	2.530	2.598	2.731	2.926	2.926	2.538	16.02
111) TP	1,2-Dibromo-3-		0.029	0.052	0.074	0.076	0.075	0.077	0.074	*L	0.9994
112) TP	1,3,5-Trichlor		0.759	0.886	0.924	0.943	0.933	0.993	1.009	0.921	8.97
113) TP	Hexachlorobuta		0.155	0.255	0.265	0.265	0.246	0.256	0.255	0.243	16.11
114) TP	1,2,4-Trichlor		0.702	0.743	0.820	0.813	0.799	0.827	0.847	0.793	6.52
115) TP	Naphthalene		1.702	1.794	1.965	1.941	1.957	1.955	1.895	1.887	5.37
116) TP	1,2,3-Trichlor		0.670	0.706	0.743	0.735	0.738	0.747	0.754	0.727	4.08

Response Factor Report Elaine

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	TP	Dichlorodifluo...		0.172	0.288	0.300	0.279	0.262	0.254	0.247	0.257	16.40
3)	TP	Chloromethane		0.230	0.249	0.263	0.237	0.222	0.213	0.210	0.232	8.28
4)	TP	Vinyl chloride	0.299	0.242	0.351	0.335	0.313	0.296	0.291	0.283	0.301	11.09
5)	TP	Bromomethane		0.214	0.301	0.289	0.268	0.264	0.262	0.263	0.266	10.33
6)	TP	Chloroethane		0.188	0.260	0.262	0.237	0.228	0.221	0.218	0.231	11.16
7)	TP	Trichlorofluor...		0.418	0.582	0.590	0.540	0.510	0.505	0.490	0.519	11.32
8)	TP	Ethyl ether		0.125	0.163	0.170	0.162	0.157	0.155	0.152	0.155	9.44
10)	TP	1,1-Dichloroet...		0.225	0.309	0.310	0.297	0.281	0.271	0.273	0.281	10.48
11)	TP	Carbon disulfide		0.635	0.883	0.851	0.866	0.802	0.746	0.759	0.792	10.96
12)	TP	Freon-113			0.278	0.284	0.297	0.266	0.243	0.250	0.270	7.73
13)	TP	Iodomethane		0.225	0.284	0.292	0.283	0.278	0.274	0.279	0.273	8.15
14)	TP	Acrolein			0.022	0.022	0.022	0.023	0.023	0.023	0.022	2.96
15)	TP	Methylene chlo...		0.255	0.255	0.249	0.230	0.222	0.218	0.220	0.235	7.00
17)	TP	Acetone			0.049	0.038	0.041	0.039	0.036	0.036	0.040	12.18
18)	TP	trans-1,2-Dich...		0.197	0.243	0.241	0.222	0.216	0.211	0.213	0.220	7.50
19)	TP	Methyl acetate			0.113	0.106	0.097	0.095	0.094	0.094	0.100	8.05
21)	TP	Methyl tert-bu...		0.423	0.489	0.519	0.539	0.559	0.551	0.555	0.519	9.43
22)	TP	tert-Butyl alc...			0.007	0.010	0.010	0.010	0.010	0.009	0.009#	12.17
24)	TP	Diisopropyl ether		0.479	0.558	0.583	0.576	0.599	0.595	0.609	0.571	7.74
25)	TP	1,1-Dichloroet...		0.391	0.456	0.441	0.413	0.391	0.378	0.380	0.407	7.57
26)	TP	Halothane		0.115	0.179	0.182	0.172	0.166	0.162	0.163	0.163	13.84
27)	TP	Acrylonitrile			0.052	0.055	0.051	0.050	0.048	0.050	0.051	5.22
28)	TP	Ethyl tert-but...		0.432	0.519	0.544	0.555	0.596	0.603	0.630	0.554	11.94
29)	TP	Vinyl acetate			0.346	0.382	0.415	0.410	0.444	0.431	0.405	8.81
30)	TP	cis-1,2-Dichlo...		0.235	0.287	0.279	0.259	0.249	0.243	0.244	0.257	7.60
31)	TP	2,2-Dichloropr...		0.295	0.377	0.359	0.352	0.336	0.322	0.321	0.337	8.14
33)	TP	Bromochloromet...		0.108	0.128	0.127	0.117	0.114	0.111	0.115	0.117	6.70
34)	TP	Cyclohexane		0.281	0.387	0.429	0.410	0.388	0.379	0.376	0.378	12.40
35)	TP	Chloroform		0.388	0.455	0.437	0.404	0.386	0.372	0.380	0.403	7.76
36)	TP	Ethyl acetate			0.118	0.131	0.137	0.140	0.136	0.135	0.133	5.81

Response Factor Report Elaine

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
37)	TP	Carbon tetrach...	0.256	0.223	0.316	0.331	0.326	0.314	0.304	0.317	0.298	12.75
38)	TP	Tetrahydrofuran			0.044	0.046	0.042	0.040	0.039	0.041	0.042	6.02
39)	S	Dibromofluorom...	0.301	0.300	0.285	0.282	0.266	0.255	0.247	0.248	0.273	8.04
40)	TP	1,1,1-Trichlor...		0.243	0.358	0.374	0.356	0.335	0.326	0.329	0.332	12.85
42)	TP	2-Butanone			0.052	0.055	0.058	0.059	0.055	0.056	0.056	4.70
43)	TP	1,1-Dichloropr...		0.205	0.271	0.284	0.290	0.283	0.275	0.277	0.269	10.84
45)	TP	Benzene	0.921	0.740	0.889	0.905	0.906	0.908	0.902	0.930	0.888	6.86
46)	TP	tert-Amyl meth...		0.469	0.492	0.518	0.517	0.545	0.551	0.577	0.524	7.02
47)	S	1,2-Dichloroet...	0.304	0.300	0.301	0.299	0.289	0.266	0.275	0.278	0.289	4.98
48)	T	1,2-Dichloroet...	0.265	0.290	0.298	0.299	0.280	0.273	0.268	0.270	0.280	4.86
51)	TP	Methyl cyclohe...		0.255	0.386	0.415	0.411	0.419	0.428	0.445	0.394	16.21
52)	TP	Trichloroethene	0.160	0.159	0.213	0.227	0.233	0.239	0.236	0.256	0.215	16.99
54)	TP	Dibromomethane		0.127	0.143	0.143	0.135	0.133	0.130	0.133	0.135	4.53
55)	TP	1,2-Dichloropr...		0.150	0.207	0.224	0.224	0.223	0.217	0.218	0.209	12.84
57)	TP	2-Chloroethyl ...		0.063	0.067	0.089	0.093	0.100	0.099	0.101	0.087	18.08
58)	TP	Bromodichlorom...		0.253	0.293	0.315	0.318	0.311	0.304	0.309	0.300	7.48
61)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	11.82
62)	TP	cis-1,3-Dichlo...	0.218	0.241	0.310	0.341	0.367	0.375	0.370	0.378	0.325	19.48
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	S	Toluene-d8	1.375	1.381	1.352	1.353	1.332	1.298	1.269	1.226	1.323	4.12
65)	TP	Toluene		0.652	0.749	0.792	0.756	0.760	0.753	0.773	0.748	6.00
66)	TP	4-Methyl-2-pen...			0.060	0.063	0.065	0.065	0.065	0.064	0.064	3.59
67)	TP	Tetrachloroethene	0.266	0.232	0.289	0.302	0.300	0.300	0.300	0.312	0.288	9.09
69)	TP	trans-1,3-Dich...	0.286	0.253	0.318	0.362	0.404	0.426	0.420	0.424	0.362	18.89
71)	TP	Ethyl methacry...		0.172	0.229	0.279	0.278	0.275	0.277	0.278	0.255	16.05
72)	TP	1,1,2-Trichlor...		0.146	0.172	0.187	0.194	0.204	0.203	0.208	0.188#	11.86
73)	TP	Chlorodibromom...		0.182	0.210	0.253	0.280	0.300	0.300	0.305	0.261	18.59
74)	TP	1,3-Dichloropr...		0.295	0.369	0.396	0.412	0.422	0.414	0.410	0.388	11.51
75)	TP	1,2-Dibromoethane		0.153	0.194	0.222	0.229	0.237	0.234	0.235	0.215	14.48
77)	TP	2-Hexanone		0.069	0.092	0.109	0.112	0.112	0.108	0.108	0.102	15.65
78)	TP	Chlorobenzene		0.740	0.854	0.883	0.863	0.865	0.864	0.888	0.851	5.92

Response Factor Report Elaine

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
79)	TP	Ethylbenzene		1.195	1.460	1.547	1.565	1.559	1.555	1.600	1.497		9.34
80)	TP	1,1,1,2-Tetrac...		0.197	0.239	0.258	0.273	0.291	0.293	0.306	0.265		14.22
81)	TP	p/m Xylene		0.452	0.574	0.596	0.616	0.639	0.665	0.745	0.613		14.67
82)	TP	o Xylene		0.436	0.562	0.586	0.607	0.651	0.678	0.748	0.610		16.18
83)	TP	Styrene		0.729	0.897	0.974	1.044	1.142	1.182	1.302	1.039		18.45
84)	I	1,4-Dichlorobenzene-d4		----------ISTD----------									
85)	TP	Bromoform		0.163	0.206	0.263	0.286	0.314	0.325	0.339	*Q		0.9996
87)	TP	Isopropylbenzene		2.052	2.741	2.957	2.936	2.875	2.892	2.855	2.758		11.57
88)	S	4-Bromofluorob...	0.835	0.818	0.826	0.855	0.819	0.768	0.761	0.719	0.800		5.71
89)	TP	Bromobenzene		0.524	0.632	0.665	0.635	0.615	0.622	0.615	0.615		7.11
90)	TP	n-Propylbenzene		2.524	3.335	3.548	3.498	3.438	3.489	3.441	3.325		10.80
91)	TP	1,4-Dichlorobu...		0.572	0.622	0.675	0.627	0.598	0.589	0.570	0.607		6.15
92)	TP	1,1,2,2-Tetrac...	0.359	0.484	0.484	0.522	0.500	0.472	0.476	0.452	0.469		10.39
93)	TP	4-Ethyltoluene		2.109	2.792	2.980	2.903	2.808	2.841	2.806	2.748		10.55
94)	TP	2-Chlorotoluene		1.567	1.903	2.008	2.031	1.890	1.933	1.875	1.887		8.10
95)	TP	1,3,5-Trimethy...		1.881	2.415	2.558	2.557	2.524	2.582	2.630	2.450		10.59
96)	TP	1,2,3-Trichlor...		0.348	0.390	0.433	0.400	0.398	0.401	0.404	0.396		6.40
97)	TP	trans-1,4-Dich...			0.126	0.140	0.142	0.138	0.137	0.128	0.135		4.89
98)	TP	4-Chlorotoluene		1.671	1.982	2.073	2.015	1.963	2.002	1.999	1.958		6.70
99)	TP	tert-Butylbenzene		1.533	2.026	2.148	2.139	2.119	2.157	2.170	2.042		11.23
102)	TP	1,2,4-Trimethy...		1.742	2.286	2.503	2.536	2.563	2.573	2.583	2.398		12.80
103)	TP	sec-Butylbenzene		2.345	2.992	3.259	3.285	3.242	3.278	3.267	3.096		11.20
104)	TP	p-Isopropyltol...		1.987	2.599	2.810	2.853	2.870	2.891	2.989	2.714		12.59
105)	TP	1,3-Dichlorobe...		1.237	1.314	1.364	1.351	1.352	1.362	1.392	1.339		3.77
106)	TP	1,4-Dichlorobe...		1.171	1.306	1.382	1.355	1.344	1.355	1.413	1.332		5.89
107)	TP	p-Diethylbenzene		1.053	1.474	1.675	1.716	1.727	1.765	1.850	1.609		16.82
108)	TP	n-Butylbenzene		1.566	2.261	2.433	2.538	2.507	2.475	2.517	2.328		14.98
109)	TP	1,2-Dichlorobe...		1.178	1.233	1.301	1.262	1.258	1.261	1.312	1.258		3.54
110)	TP	1,2,4,5-Tetram...		1.774	2.281	2.530	2.598	2.731	2.926	2.926	2.538		16.02
111)	TP	1,2-Dibromo-3-...		0.029	0.052	0.074	0.076	0.075	0.077	0.074	*L		0.9994
112)	TP	1,3,5-Trichlor...		0.759	0.886	0.924	0.943	0.933	0.993	1.009	0.921		8.97

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

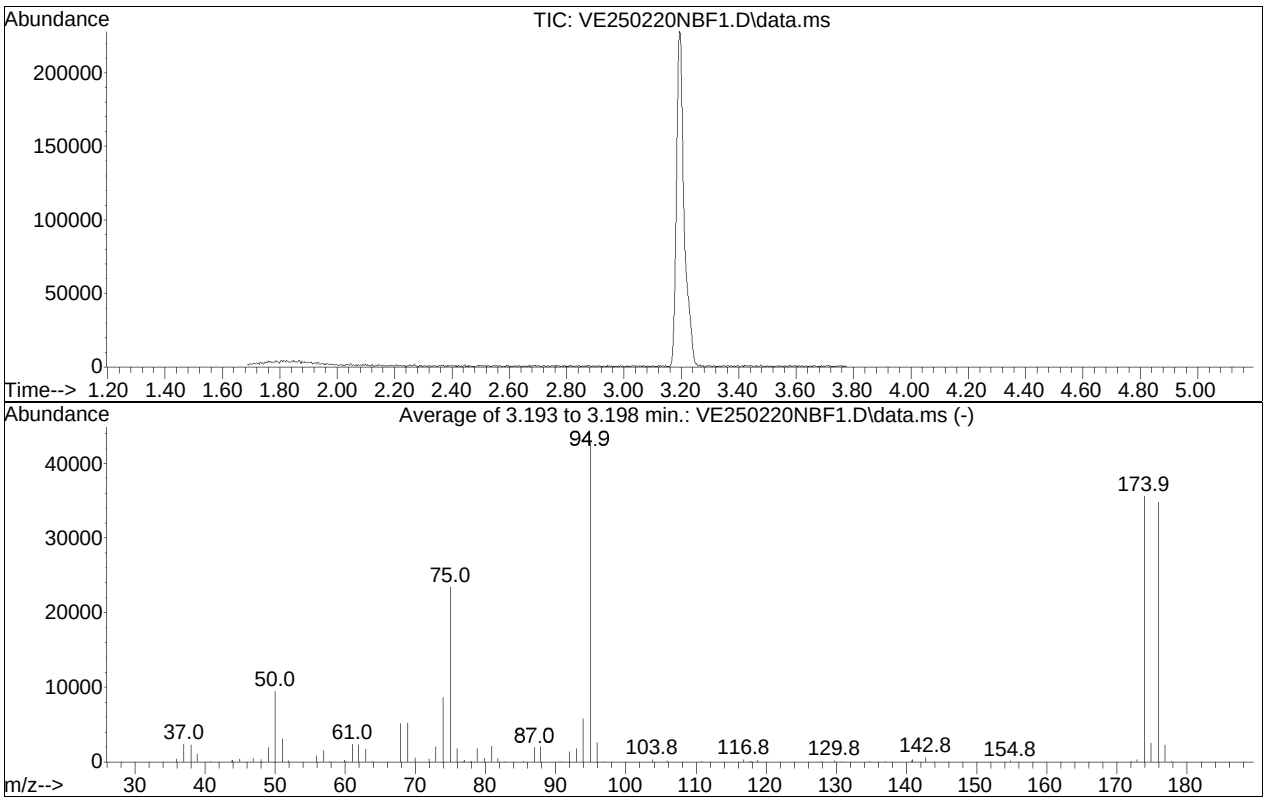
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
113)	TP Hexachlorobuta...	0.155	0.255	0.265	0.265	0.246	0.256	0.255	0.243	16.11	
114)	TP 1,2,4-Trichlor...	0.702	0.743	0.820	0.813	0.799	0.827	0.847	0.793	6.52	
115)	TP Naphthalene	1.702	1.794	1.965	1.941	1.957	1.955	1.895	1.887	5.37	
116)	TP 1,2,3-Trichlor...	0.670	0.706	0.743	0.735	0.738	0.747	0.754	0.727	4.08	

(#) = Out of Range

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220NBF1.D
Acq On : 20 Feb 2025 10:12 pm
Operator : ELAINE:TMS
Sample : WG2033412-1
Misc : WG2033412
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025



AutoFind: Scans 541, 542, 543; Background Corrected with Scan 527

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	9503	PASS
75	95	30	60	54.9	23467	PASS
95	95	100	100	100.0	42763	PASS
96	95	5	9	6.1	2624	PASS
173	174	0.00	2	1.0	347	PASS
174	95	50	100	83.3	35635	PASS
175	174	5	9	7.1	2533	PASS
176	174	95	101	97.6	34776	PASS
177	176	5	9	6.6	2305	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N04.D
Acq On : 20 Feb 2025 11:45 pm
Operator : ELAINE:PID
Sample : I8260STD0.19PPB
Misc : WG2033412,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 07:12:09 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-L11_NJnew - L11 new NJ

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	186191	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 96.13%		
63) Chlorobenzene-d5	9.285	117	147338	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 98.30%		
84) 1,4-Dichlorobenzene-d4	12.035	152	80343	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 102.07%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.977	113	55953	11.011 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.11%		
47) 1,2-Dichloroethane-d4	5.490	65	56550	10.513 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.13%		
64) Toluene-d8	7.450	98	202569	10.391 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.91%		
88) 4-Bromofluorobenzene	10.800	95	67085	10.433 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.33%		
Target Compounds					Qvalue
4) Vinyl chloride	1.764	62	1057	0.188 ug/L	78
37) Carbon tetrachloride	4.932	117	906	0.163 ug/L #	59
45) Benzene	5.365	78	3259M6	0.197 ug/L	
48) 1,2-Dichloroethane	5.574	62	937M3	0.180 ug/L	
52) Trichloroethene	5.945	95	567M6	0.141 ug/L	
62) cis-1,3-Dichloropropene	7.241	75	772M3	0.128 ug/L	
67) Tetrachloroethene	7.950	166	746M4	0.176 ug/L	
69) trans-1,3-Dichloropropene	7.989	75	800M6	0.150 ug/L	
92) 1,1,2,2-Tetrachloroethane	11.059	83	548	0.146 ug/L #	82

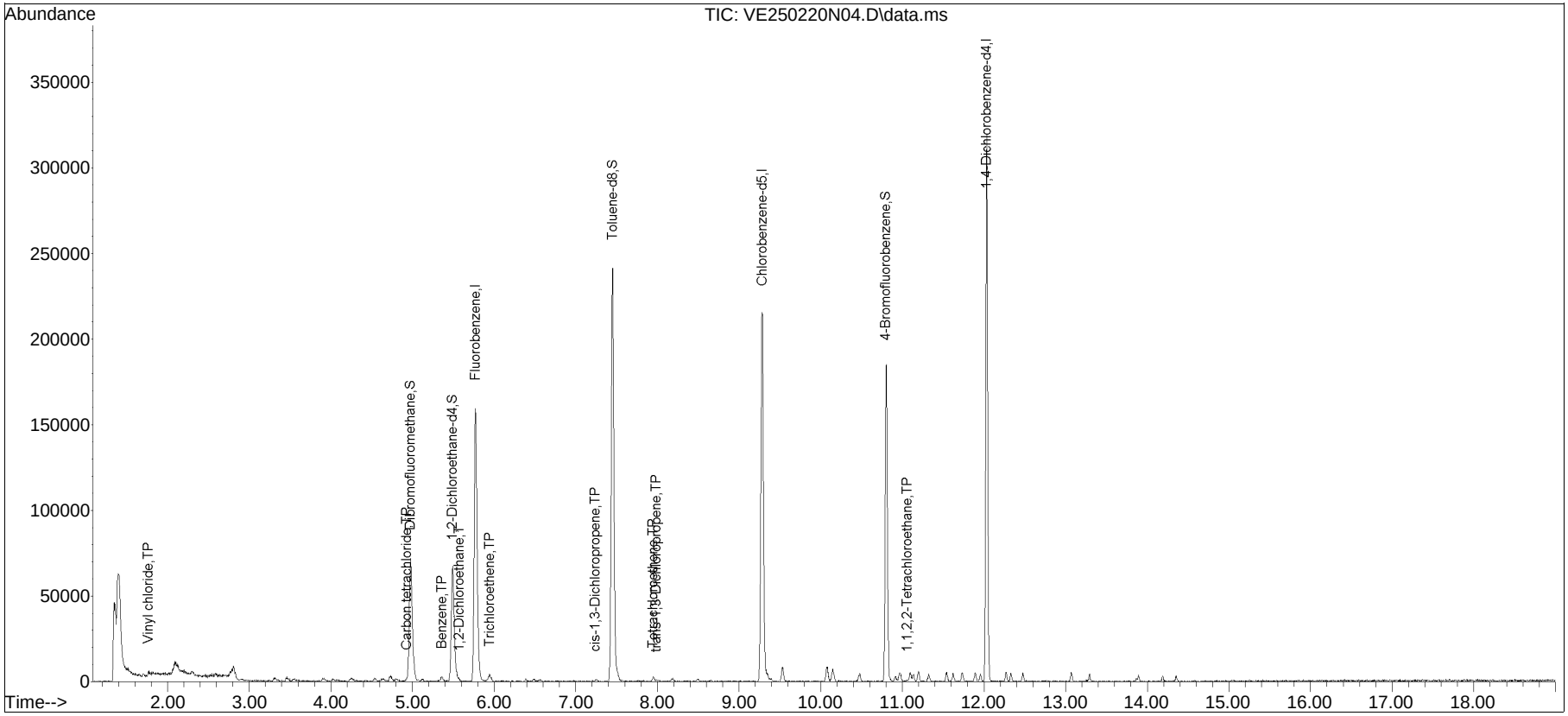
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N04.D
Acq On : 20 Feb 2025 11:45 pm
Operator : ELAINE:PID
Sample : I8260STD0.19PPB
Misc : WG2033412,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 07:12:09 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

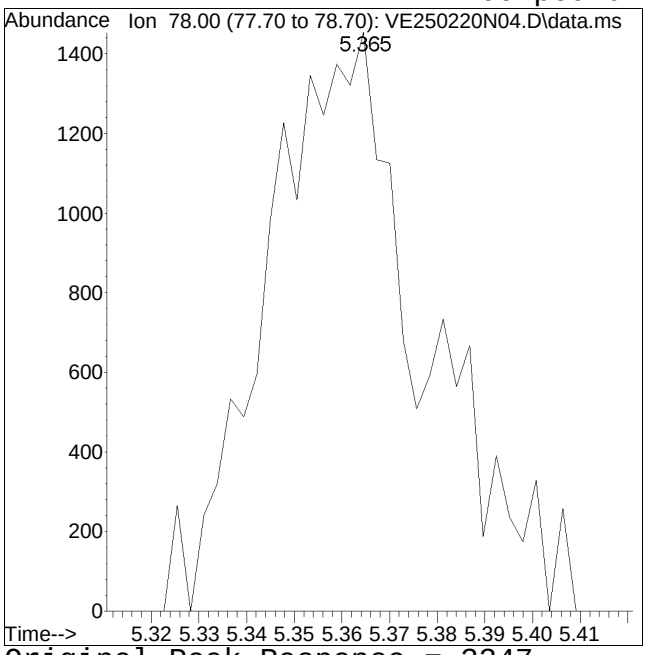
Sub List : 8260-L11_NJnew - L11 new NJCAL\VE250220N10.D•



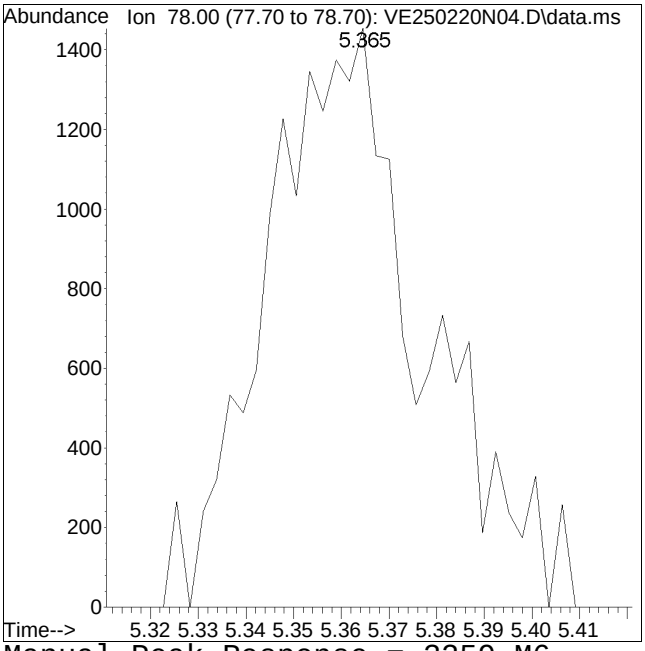
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #45: Benzene



Original Peak Response = 3347



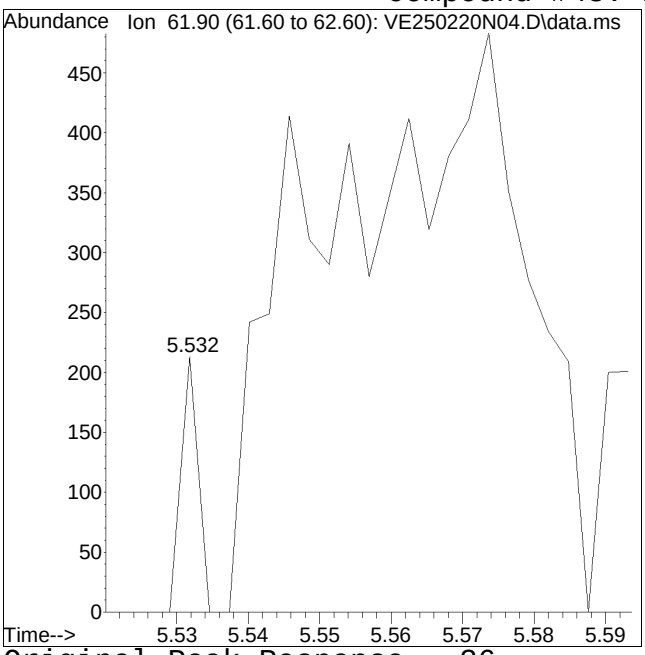
Manual Peak Response = 3259 M6

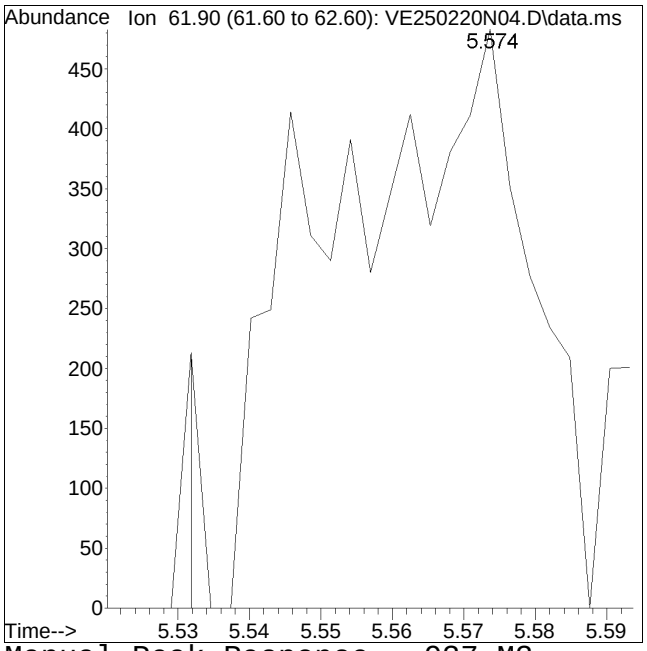
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #48: 1,2-Dichloroethane





Original Peak Response = 36 Manual Peak Response = 937 M3

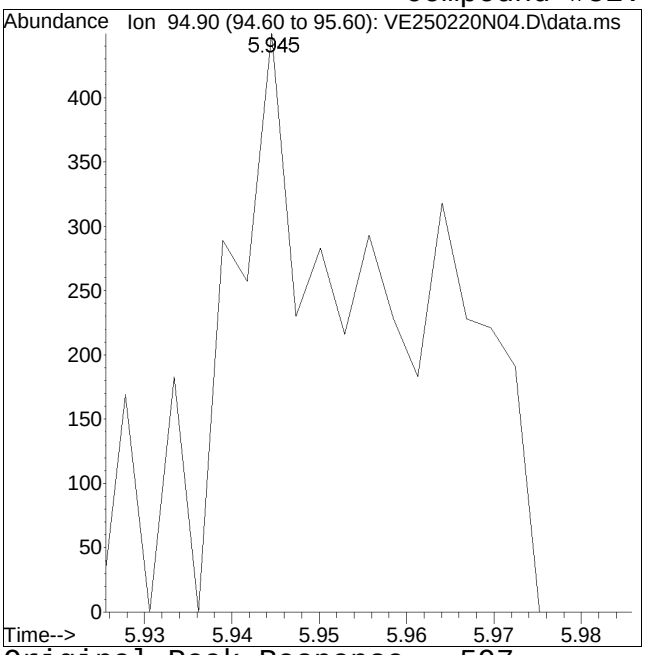
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

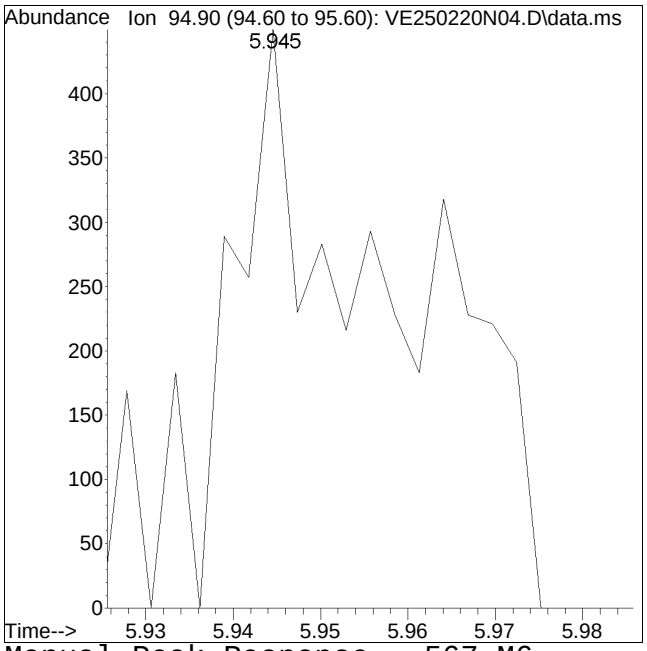
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N04.D
Date Inj'd : 2/20/2025 11:45 pm
Sample : I8260STD0.19PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #52: Trichloroethene



Original Peak Response = 597



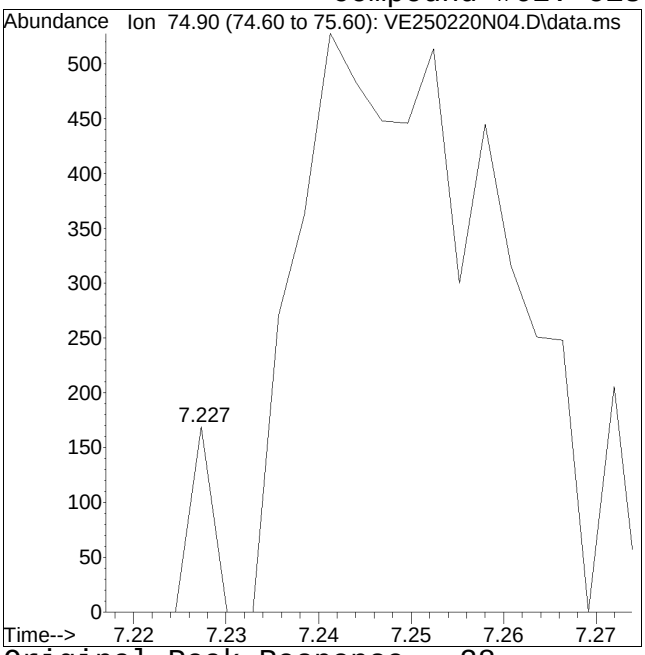
Manual Peak Response = 567 M6

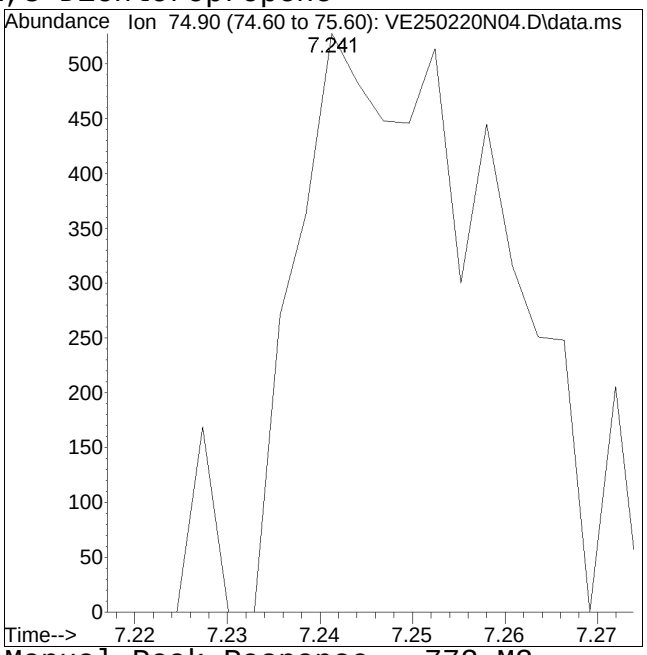
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #62: cis-1,3-Dichloropropene





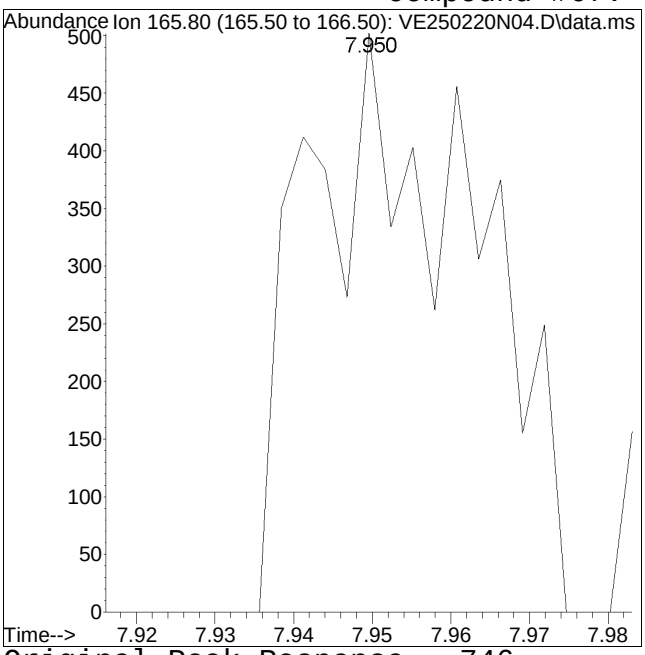
Original Peak Response = 28 Manual Peak Response = 772 M3

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

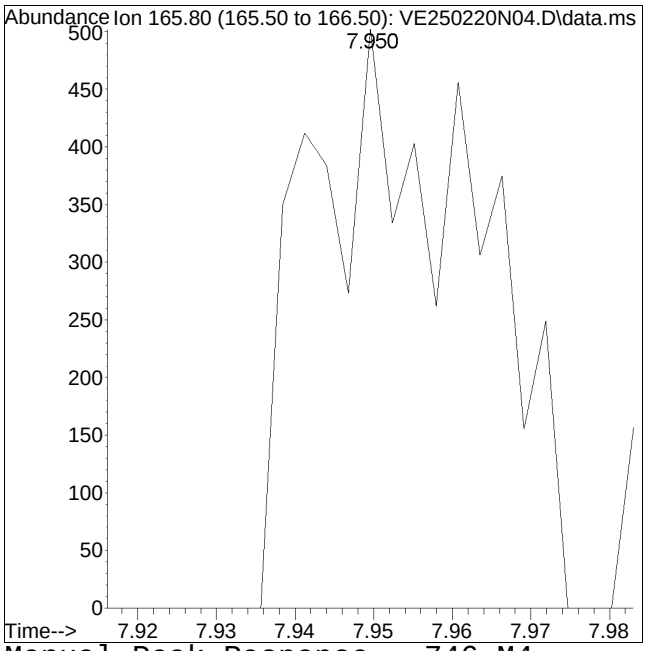
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #67: Tetrachloroethene



Original Peak Response = 746



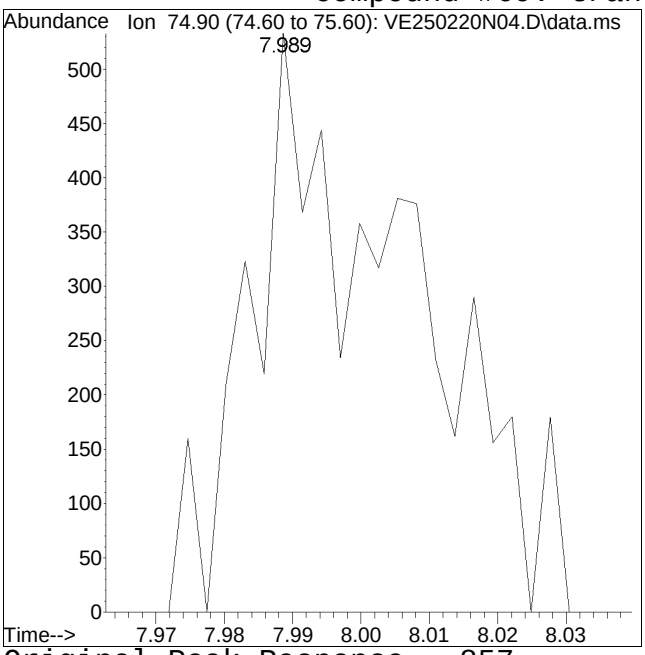
Manual Peak Response = 746 M4

M4 = Poor automated baseline construction.

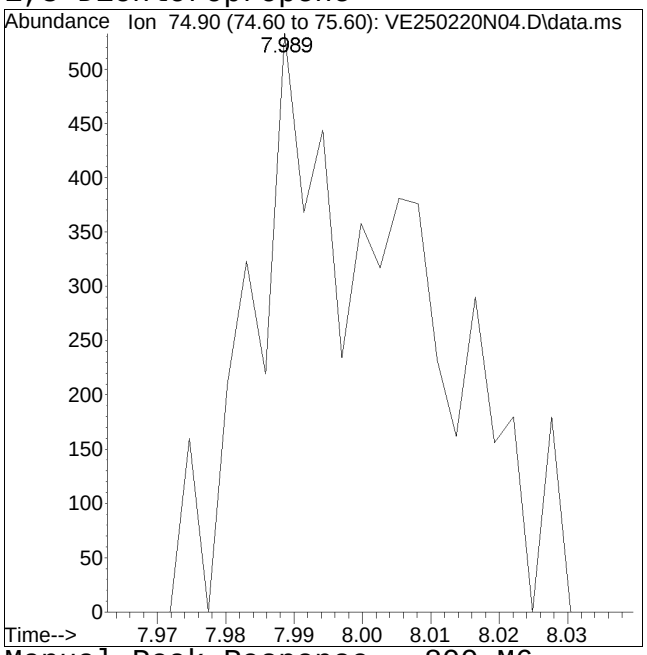
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #69: trans-1,3-Dichloropropene



Original Peak Response = 857



Manual Peak Response = 800 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	186026	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 96.04%		
63) Chlorobenzene-d5	9.286	117	147295	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 98.27%		
84) 1,4-Dichlorobenzene-d4	12.032	152	79184	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 100.59%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.977	113	55801	10.991 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.91%		
47) 1,2-Dichloroethane-d4	5.490	65	55883	10.398 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.98%		
64) Toluene-d8	7.453	98	203378	10.436 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.36%		
88) 4-Bromofluorobenzene	10.803	95	64801	10.226 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.26%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	1596	0.333 ug/L	95
3) Chloromethane	1.698	50	2139	0.496 ug/L	92
4) Vinyl chloride	1.773	62	2248	0.401 ug/L	92
5) Bromomethane	2.063	94	1987	0.402 ug/L	84
6) Chloroethane	2.180	64	1749M6	0.408 ug/L	
7) Trichlorofluoromethane	2.314	101	3888	0.402 ug/L	89
8) Ethyl ether	2.590	74	1159	0.403 ug/L #	66
10) 1,1-Dichloroethene	2.777	96	2094	0.401 ug/L	95
11) Carbon disulfide	2.796	76	5905	0.401 ug/L	93
12) Freon-113	2.807	101	1260	0.270 ug/L	99
13) Iodomethane	2.911	142	2090	0.411 ug/L	83
14) Acrolein	0.000		0	N.D. d	
15) Methylene chloride	3.315	84	2368	0.541 ug/L	96
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	3.460	96	1828	0.446 ug/L	93
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	3.552	73	3939	0.408 ug/L #	95
22) tert-Butyl alcohol	0.000		0	N.D. d	
24) Diisopropyl ether	3.912	45	4451	0.419 ug/L	93
25) 1,1-Dichloroethane	4.026	63	3634	0.480 ug/L #	53
26) Halothane	4.090	117	1068	0.353 ug/L #	56

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	0.000		0	N.D.	d		
28) Ethyl tert-butyl ether	4.252	59	4015	0.390	ug/L		96
29) Vinyl acetate	0.000		0	N.D.	d		
30) cis-1,2-Dichloroethene	4.550	96	2186	0.458	ug/L		89
31) 2,2-Dichloropropane	4.642	77	2745M6	0.437	ug/L		
33) Bromochloromethane	4.729	128	1007M1	0.462	ug/L		
34) Cyclohexane	4.734	56	2612	0.371	ug/L		91
35) Chloroform	4.810	83	3609	0.481	ug/L	#	94
36) Ethyl acetate	0.000		0	N.D.	d		
37) Carbon tetrachloride	4.924	117	2078	0.374	ug/L	#	59
38) Tetrahydrofuran	0.000		0	N.D.	d		
40) 1,1,1-Trichloroethane	4.997	97	2264M6	0.367	ug/L		
42) 2-Butanone	0.000		0	N.D.	d		
43) 1,1-Dichloropropene	5.128	75	1905	0.380	ug/L	#	49
45) Benzene	5.354	78	6883	0.417	ug/L	#	64
46) tert-Amyl methyl ether	5.471	73	4359	0.447	ug/L	#	67
48) 1,2-Dichloroethane	5.563	62	2700	0.518	ug/L	#	51
51) Methyl cyclohexane	5.945	83	2373	0.324	ug/L		98
52) Trichloroethene	5.956	95	1475	0.368	ug/L		97
54) Dibromomethane	6.385	93	1185	0.473	ug/L		93
55) 1,2-Dichloropropane	6.497	63	1391	0.358	ug/L	#	40
57) 2-Chloroethyl vinyl ether	7.180	63	588	0.362	ug/L	#	77
58) Bromodichloromethane	6.564	83	2351	0.421	ug/L	#	93
61) 1,4-Dioxane	6.773	88	1716M6	85.728	ug/L		
62) cis-1,3-Dichloropropene	7.244	75	2239M6	0.370	ug/L		
65) Toluene	7.509	92	4800	0.436	ug/L		95
66) 4-Methyl-2-pentanone	0.000		0	N.D.	d		
67) Tetrachloroethene	7.958	166	1709	0.403	ug/L		93
69) trans-1,3-Dichloropropene	8.000	75	1866	0.350	ug/L		84
71) Ethyl methacrylate	8.178	69	1268M6	0.337	ug/L		
72) 1,1,2-Trichloroethane	8.173	83	1072	0.388	ug/L		92
73) Chlorodibromomethane	8.388	129	1343	0.349	ug/L		91
74) 1,3-Dichloropropane	8.505	76	2172	0.380	ug/L		90
75) 1,2-Dibromoethane	8.652	107	1126	0.356	ug/L		85
77) 2-Hexanone	8.959	43	510M4	0.341	ug/L		
78) Chlorobenzene	9.302	112	5449	0.435	ug/L	#	76
79) Ethylbenzene	9.344	91	8801	0.399	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.391	131	1450	0.371	ug/L	#	62
81) p/m Xylene	9.539	106	6660	0.738	ug/L		99
82) o Xylene	10.075	106	6429	0.716	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.144	104	10744	0.702	ug/L		100
85) Bromoform	10.181	173	647M6	0.302	ug/L		
87) Isopropylbenzene	10.476	105	8126	0.372	ug/L		98
89) Bromobenzene	10.911	156	2074	0.426	ug/L		90
90) n-Propylbenzene	10.967	91	9994	0.380	ug/L		100
91) 1,4-Dichlorobutane	10.975	55	2263	0.471	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.056	83	1915	0.516	ug/L	#	91
93) 4-Ethyltoluene	11.098	105	8349	0.384	ug/L		99
94) 2-Chlorotoluene	11.132	91	6205M6	0.415	ug/L		
95) 1,3,5-Trimethylbenzene	11.198	105	7446	0.384	ug/L		94
96) 1,2,3-Trichloropropane	11.193	75	1377	0.439	ug/L		91
97) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d		
98) 4-Chlorotoluene	11.324	91	6616	0.427	ug/L		99
99) tert-Butylbenzene	11.533	119	6070	0.375	ug/L		98
102) 1,2,4-Trimethylbenzene	11.620	105	6896	0.363	ug/L		99
103) sec-Butylbenzene	11.734	105	9285	0.379	ug/L		95
104) p-Isopropyltoluene	11.890	119	7868	0.366	ug/L		100
105) 1,3-Dichlorobenzene	11.951	146	4898	0.462	ug/L		94
106) 1,4-Dichlorobenzene	12.052	146	4636M3	0.439	ug/L		
107) p-Diethylbenzene	12.269	119	4171	0.327	ug/L		97
108) n-Butylbenzene	12.328	91	6201	0.336	ug/L		99
109) 1,2-Dichlorobenzene	12.476	146	4662	0.468	ug/L		90
110) 1,2,4,5-Tetramethylben...	13.064	119	7024	0.350	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.259	155	114	0.221	ug/L		86
112) 1,3,5-Trichlorobenzene	13.293	180	3006	0.412	ug/L		97
113) Hexachlorobutadiene	13.870	225	615	0.320	ug/L	#	85
114) 1,2,4-Trichlorobenzene	13.895	180	2779	0.442	ug/L		97
115) Naphthalene	14.185	128	6738	0.451	ug/L		100
116) 1,2,3-Trichlorobenzene	14.355	180	2651	0.460	ug/L		96

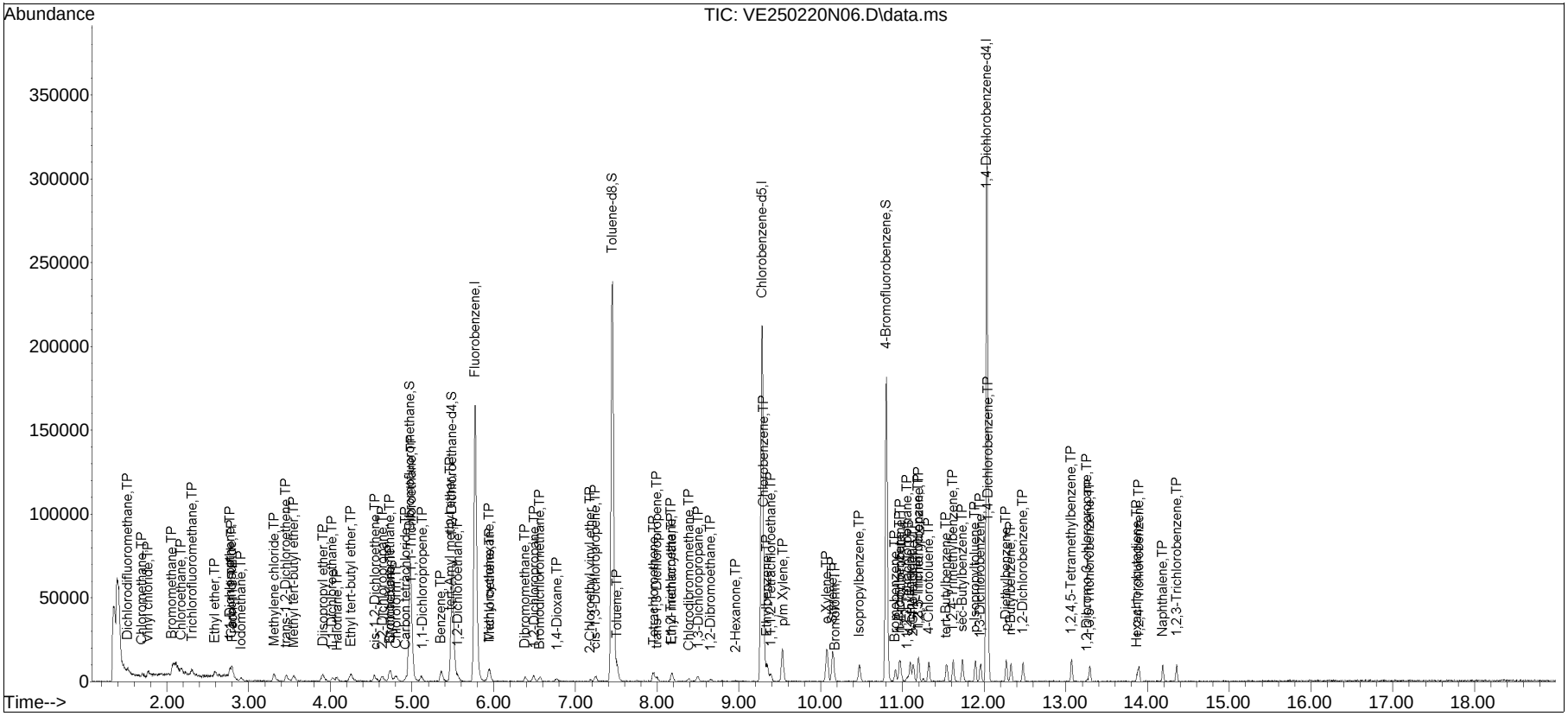
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

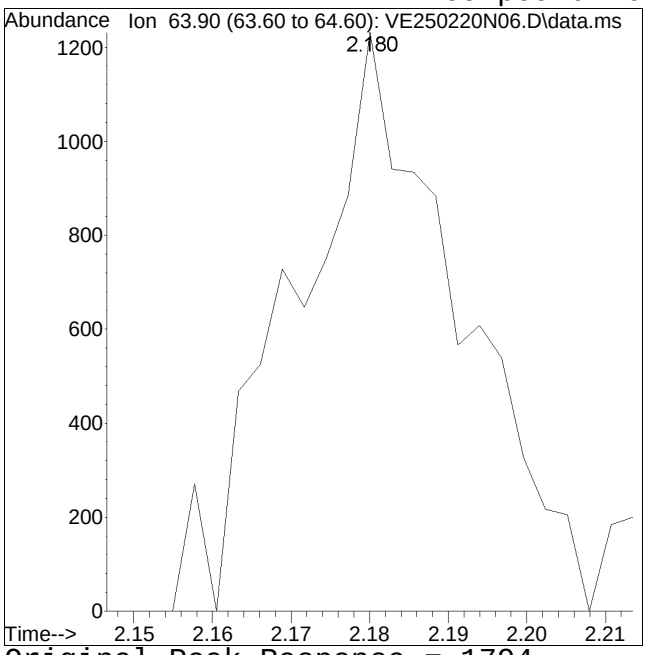
Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•



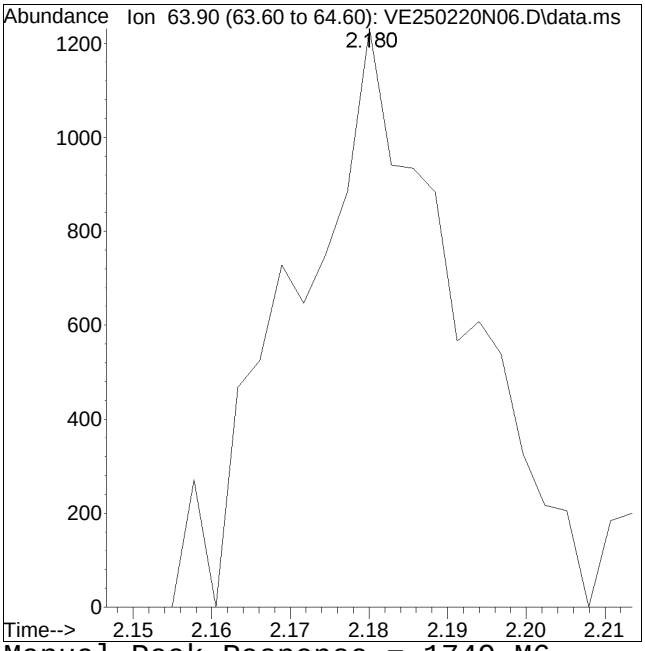
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #6: Chloroethane



Original Peak Response = 1794



Manual Peak Response = 1749 M6

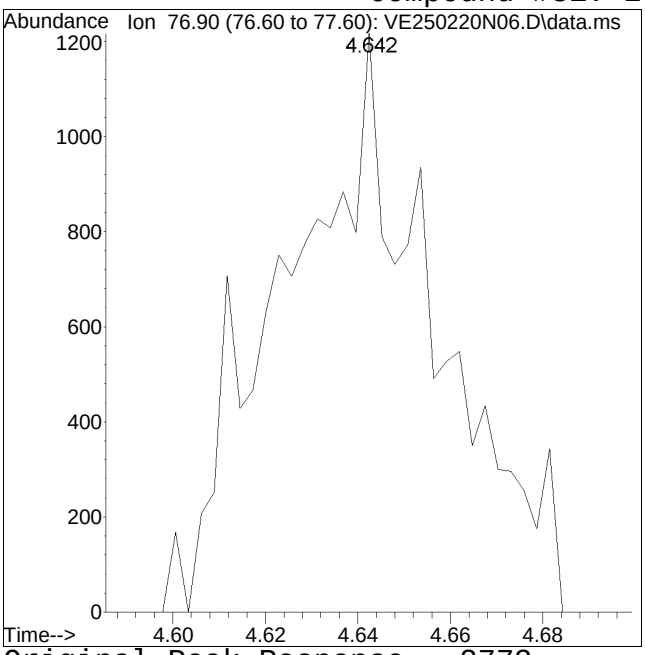
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

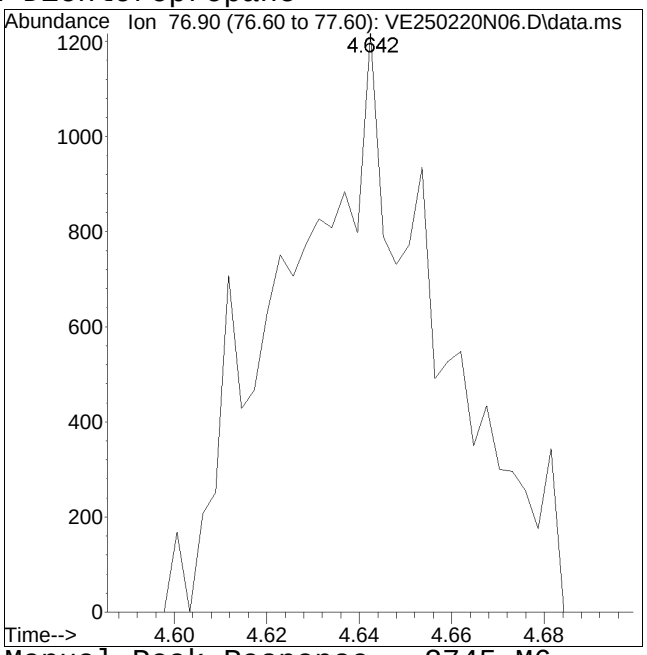
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N06.D
Date Inj'd : 2/21/2025 12:33 am
Sample : I8260STD0.5PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #31: 2,2-Dichloropropane



Original Peak Response = 2773



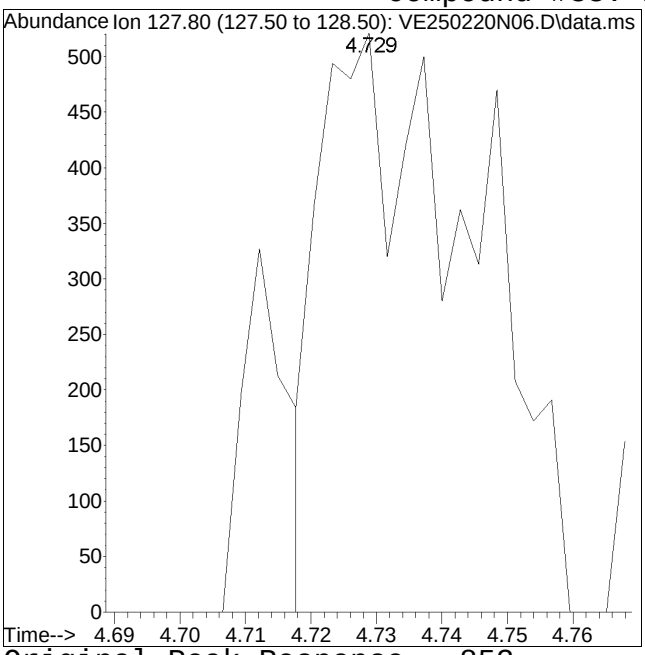
Manual Peak Response = 2745 M6

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

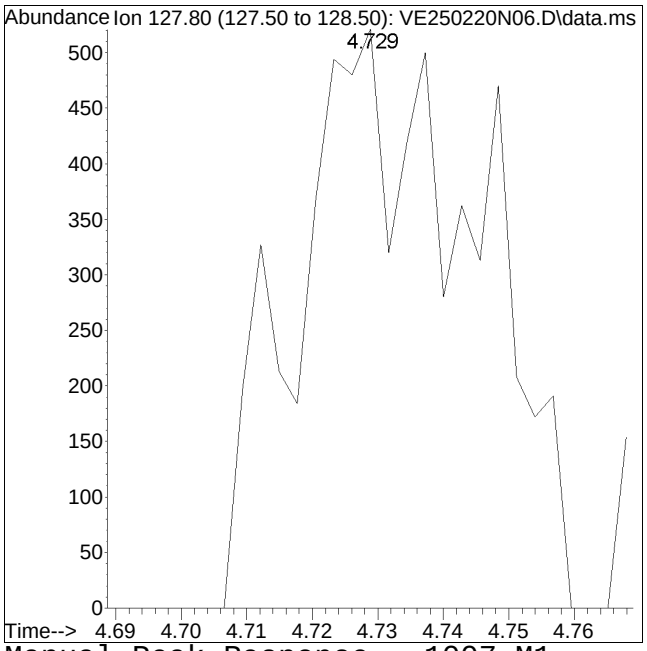
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #33: Bromochloromethane



Original Peak Response = 853



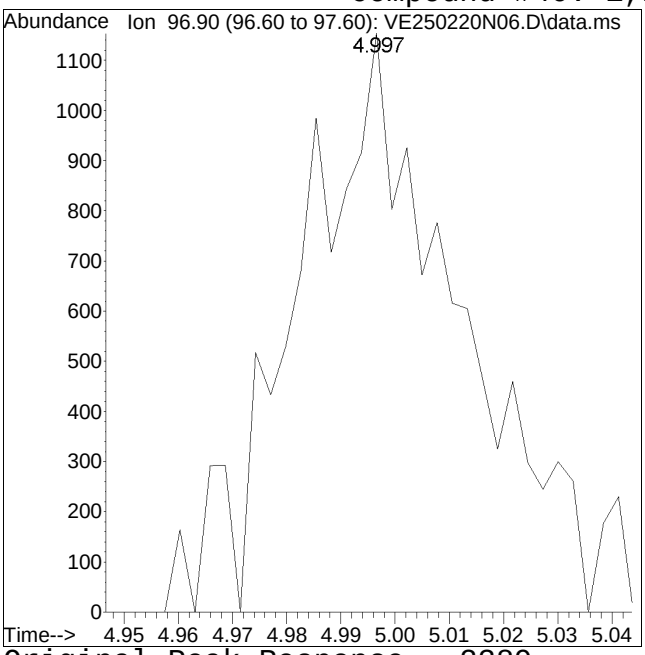
Manual Peak Response = 1007 M1

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

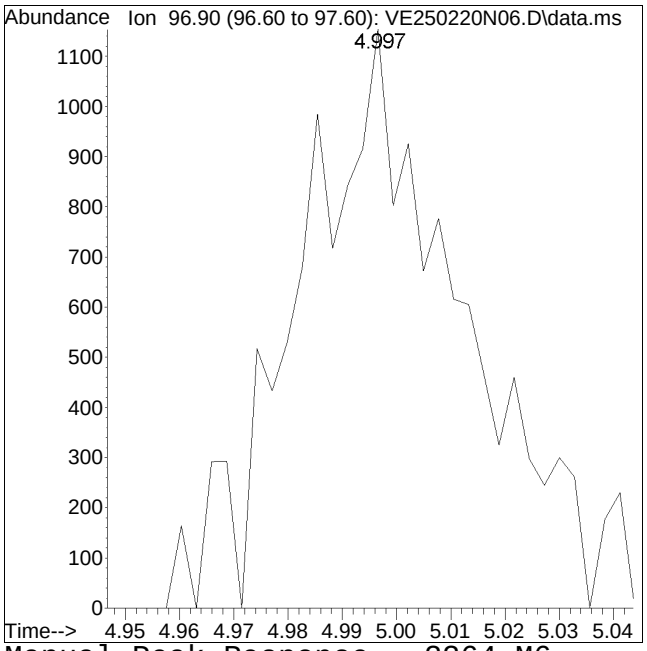
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N06.D
Date Inj'd : 2/21/2025 12:33 am
Sample : I8260STD0.5PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #40: 1,1,1-Trichloroethane



Original Peak Response = 2389



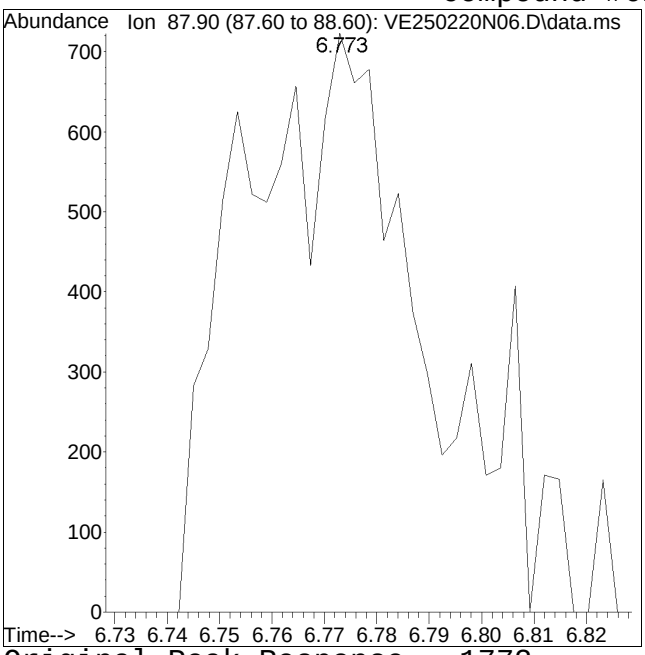
Manual Peak Response = 2264 M6

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

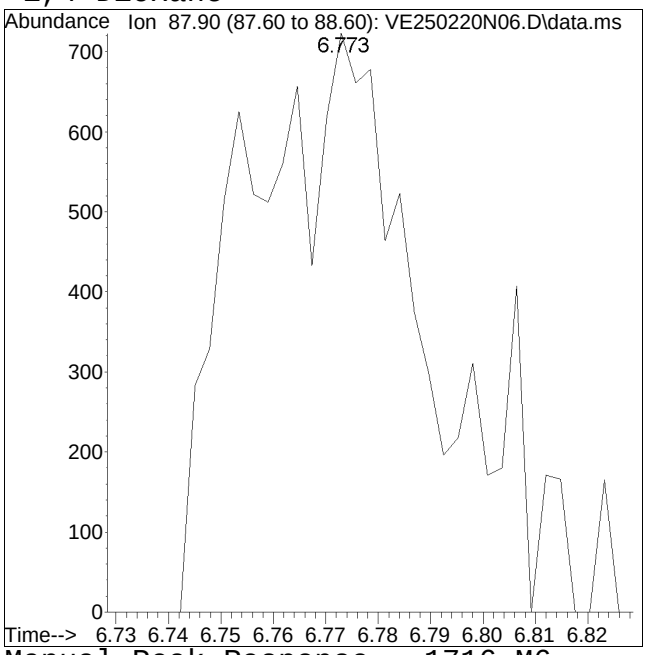
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #61: 1,4-Dioxane



Original Peak Response = 1772



Manual Peak Response = 1716 M6

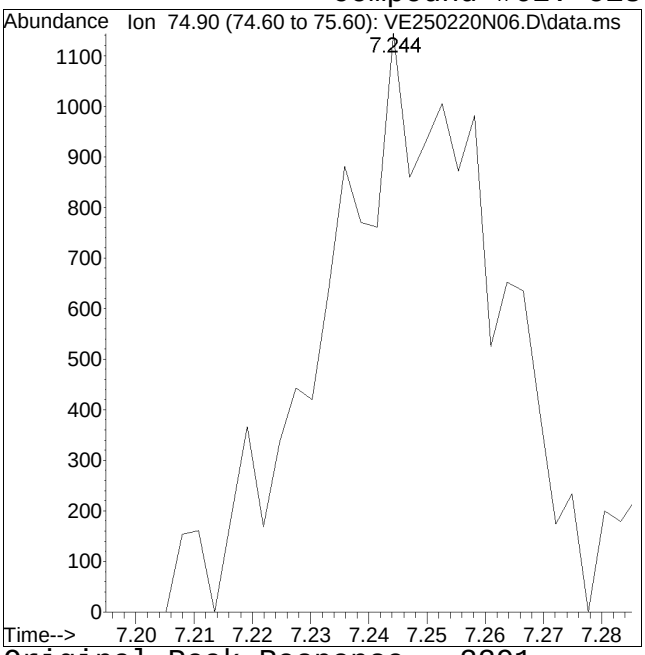
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

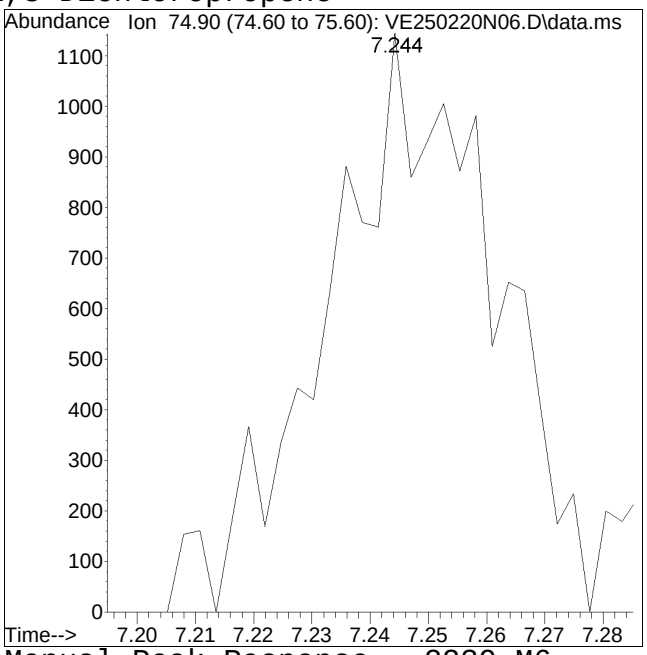
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N06.D
Date Inj'd : 2/21/2025 12:33 am
Sample : I8260STD0.5PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #62: cis-1,3-Dichloropropene



Original Peak Response = 2291



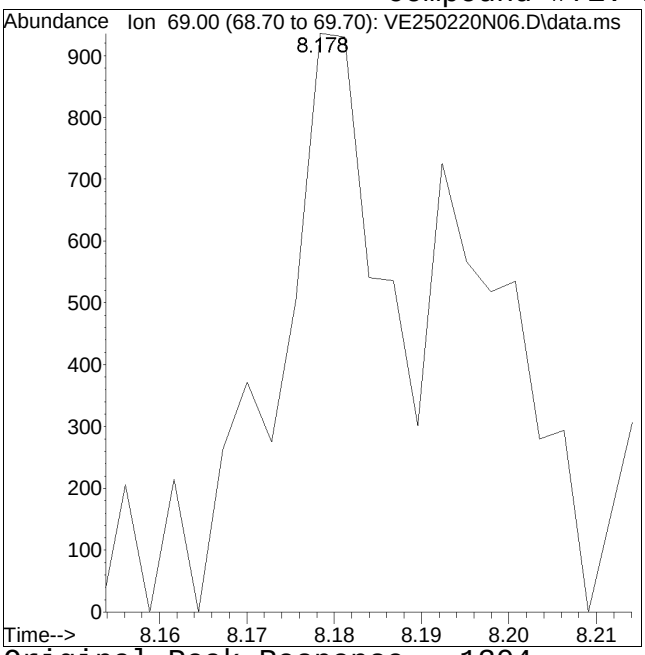
Manual Peak Response = 2239 M6

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

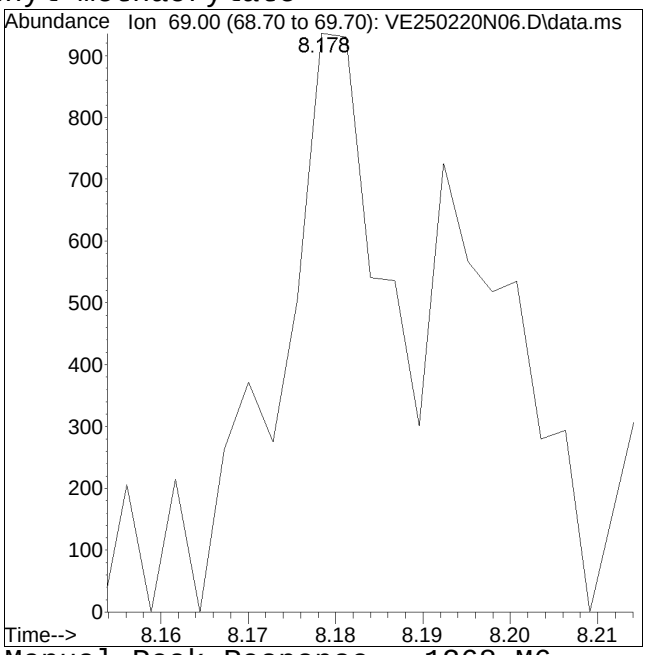
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #71: Ethyl methacrylate



Original Peak Response = 1304



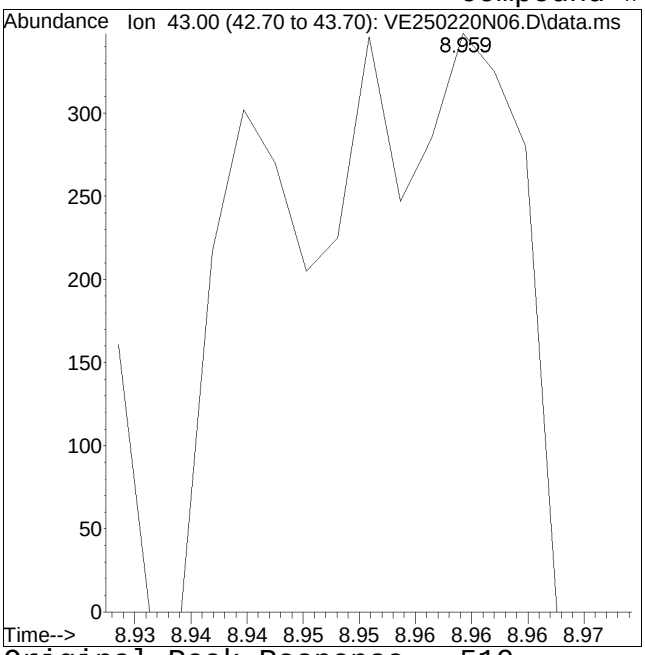
Manual Peak Response = 1268 M6

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

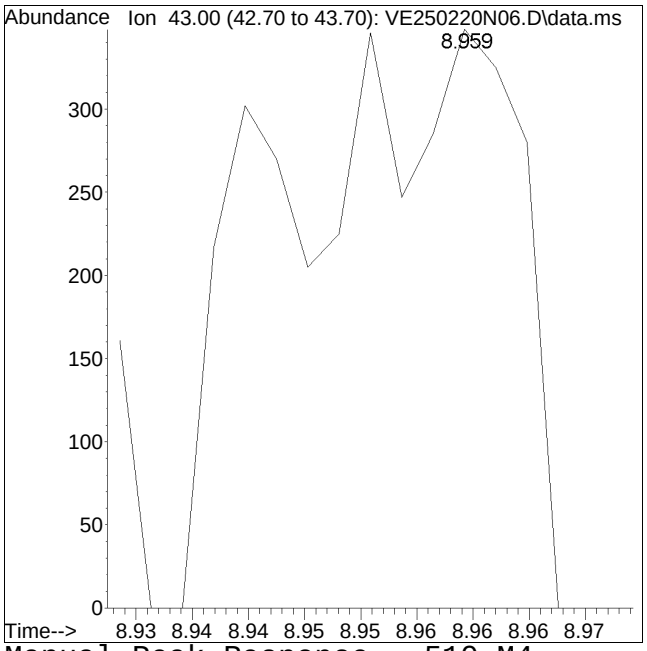
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #77: 2-Hexanone



Original Peak Response = 510



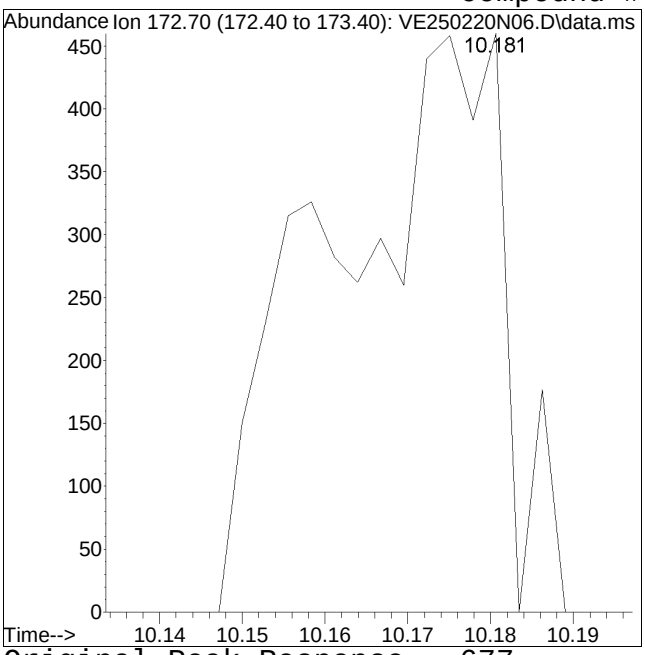
Manual Peak Response = 510 M4

M4 = Poor automated baseline construction.

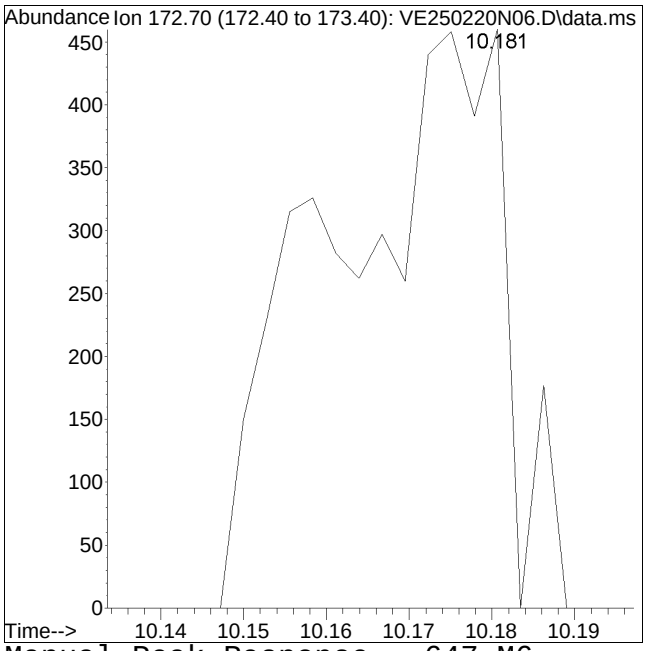
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #85: Bromoform



Original Peak Response = 677



Manual Peak Response = 647 M6

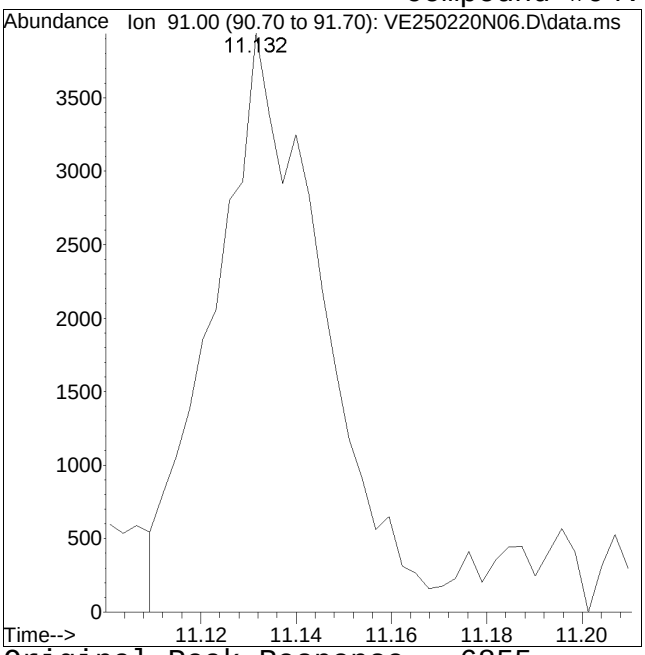
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

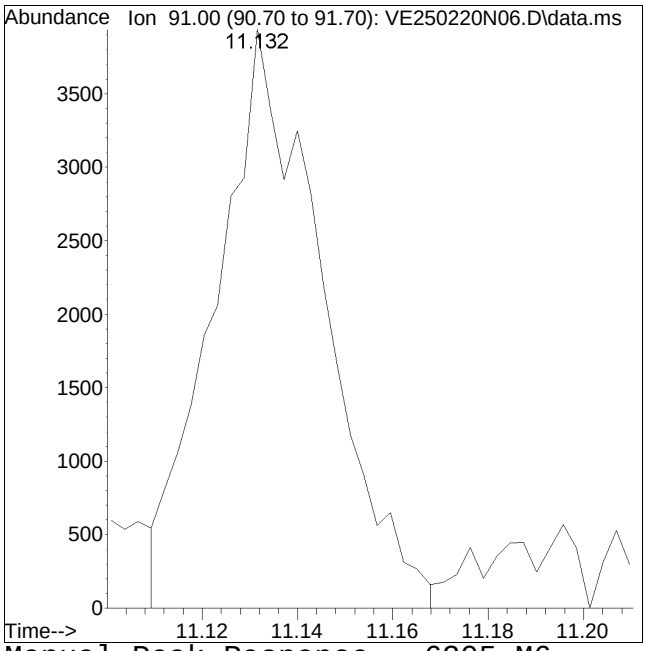
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N06.D
Date Inj'd : 2/21/2025 12:33 am
Sample : I8260STD0.5PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 6855



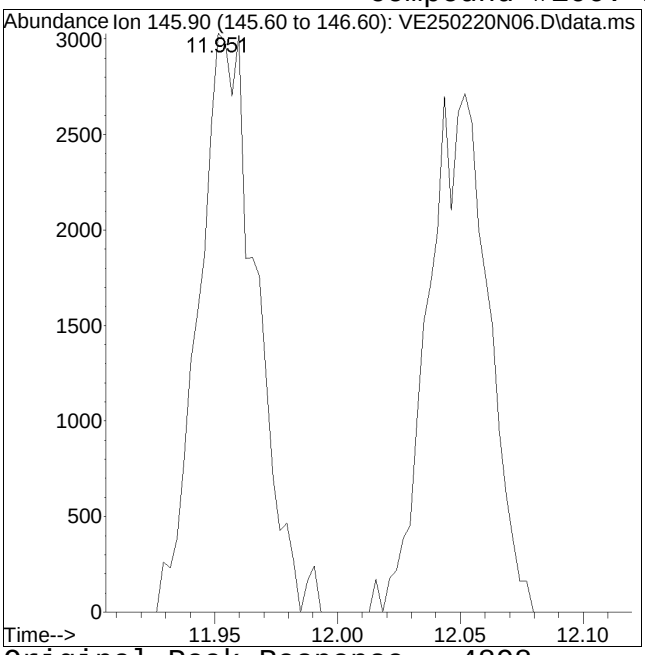
Manual Peak Response = 6205 M6

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

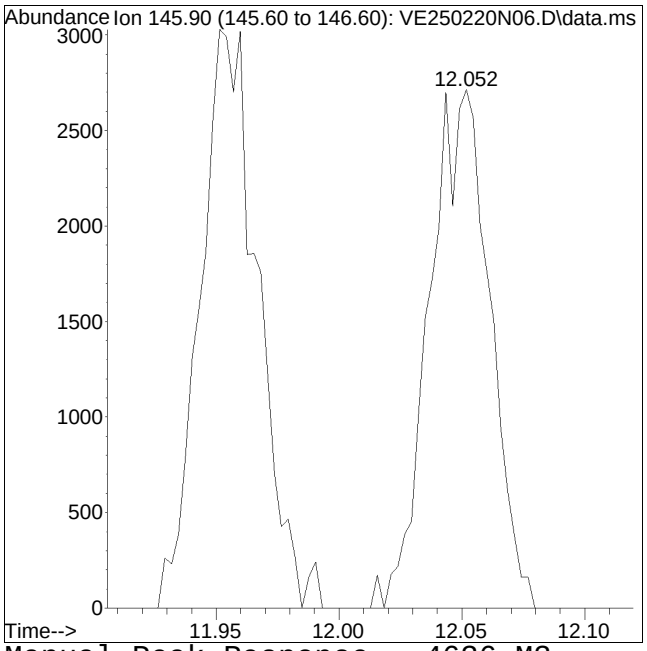
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #106: 1,4-Dichlorobenzene



Original Peak Response = 4898



Manual Peak Response = 4636 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.772	96	189076	10.000	ug/L	0.00
Standard Area 1 = 193689			Recovery = 97.62%			
63) Chlorobenzene-d5	9.280	117	151127	10.000	ug/L	0.00
Standard Area 1 = 149882			Recovery = 100.83%			
84) 1,4-Dichlorobenzene-d4	12.032	152	80379	10.000	ug/L	0.00
Standard Area 1 = 78717			Recovery = 102.11%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.980	113	53811	10.428	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.28%			
47) 1,2-Dichloroethane-d4	5.493	65	56957	10.427	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.27%			
64) Toluene-d8	7.451	98	204258	10.215	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.15%			
88) 4-Bromofluorobenzene	10.802	95	66366	10.317	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	10872	2.235	ug/L	98
3) Chloromethane	1.703	50	9412	2.146	ug/L	95
4) Vinyl chloride	1.767	62	13282	2.332	ug/L	94
5) Bromomethane	2.066	94	11377	2.263	ug/L	98
6) Chloroethane	2.180	64	9849	2.259	ug/L	97
7) Trichlorofluoromethane	2.308	101	22007	2.241	ug/L	96
8) Ethyl ether	2.590	74	6155	2.104	ug/L	94
10) 1,1-Dichloroethene	2.771	96	11683	2.200	ug/L	99
11) Carbon disulfide	2.802	76	33380	2.230	ug/L	100
12) Freon-113	2.813	101	10506	2.218	ug/L	99
13) Iodomethane	2.905	142	10728	2.075	ug/L	97
14) Acrolein	3.089	56	817	1.927	ug/L #	80
15) Methylene chloride	3.315	84	9628	2.162	ug/L	95
17) Acetone	3.351	43	1861M6	2.460	ug/L	
18) trans-1,2-Dichloroethene	3.460	96	9174	2.203	ug/L	96
19) Methyl acetate	3.468	43	4290M6	2.274	ug/L	
21) Methyl tert-butyl ether	3.558	73	18485	1.882	ug/L #	96
22) tert-Butyl alcohol	3.652	59	1354	7.573	ug/L #	100
24) Diisopropyl ether	3.915	45	21101	1.954	ug/L	97
25) 1,1-Dichloroethane	4.026	63	17250	2.241	ug/L	96
26) Halothane	4.087	117	6782	2.203	ug/L	94

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.073	53	1973	2.046	ug/L		96
28) Ethyl tert-butyl ether	4.249	59	19618	1.873	ug/L		97
29) Vinyl acetate	4.260	43	13077	1.710	ug/L		97
30) cis-1,2-Dichloroethene	4.545	96	10852	2.236	ug/L		90
31) 2,2-Dichloropropane	4.642	77	14253	2.234	ug/L	#	99
33) Bromochloromethane	4.726	128	4856	2.193	ug/L		97
34) Cyclohexane	4.734	56	14652	2.048	ug/L		98
35) Chloroform	4.804	83	17215	2.258	ug/L		97
36) Ethyl acetate	4.904	43	4471M6	1.781	ug/L		
37) Carbon tetrachloride	4.921	117	11949M6	2.118	ug/L		
38) Tetrahydrofuran	4.944	42	1673M6	2.112	ug/L		
40) 1,1,1-Trichloroethane	4.999	97	13544	2.160	ug/L		97
42) 2-Butanone	5.086	43	1954	1.854	ug/L	#	58
43) 1,1-Dichloropropene	5.116	75	10238	2.010	ug/L		99
45) Benzene	5.362	78	33614	2.003	ug/L		99
46) tert-Amyl methyl ether	5.471	73	18621	1.879	ug/L		98
48) 1,2-Dichloroethane	5.563	62	11254	2.123	ug/L		98
51) Methyl cyclohexane	5.936	83	14595	1.958	ug/L		98
52) Trichloroethene	5.950	95	8036	1.973	ug/L		98
54) Dibromomethane	6.385	93	5416	2.126	ug/L		96
55) 1,2-Dichloropropane	6.494	63	7832	1.983	ug/L		96
57) 2-Chloroethyl vinyl ether	7.183	63	2542	1.538	ug/L	#	83
58) Bromodichloromethane	6.564	83	11063	1.949	ug/L		99
61) 1,4-Dioxane	6.773	88	7631	375.081	ug/L		98
62) cis-1,3-Dichloropropene	7.244	75	11717	1.907	ug/L		99
65) Toluene	7.509	92	22633	2.002	ug/L		98
66) 4-Methyl-2-pentanone	7.939	58	1800	1.867	ug/L	#	93
67) Tetrachloroethene	7.955	166	8743	2.011	ug/L		97
69) trans-1,3-Dichloropropene	7.986	75	9600	1.757	ug/L		96
71) Ethyl methacrylate	8.181	69	6907	1.790	ug/L		91
72) 1,1,2-Trichloroethane	8.176	83	5212	1.836	ug/L		98
73) Chlorodibromomethane	8.390	129	6338	1.605	ug/L		99
74) 1,3-Dichloropropane	8.499	76	11141	1.899	ug/L		97
75) 1,2-Dibromoethane	8.655	107	5864	1.805	ug/L		96
77) 2-Hexanone	8.956	43	2775	1.807	ug/L	#	83
78) Chlorobenzene	9.305	112	25806	2.007	ug/L		94
79) Ethylbenzene	9.341	91	44125	1.950	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.389	131	7217	1.801	ug/L		98
81) p/m Xylene	9.531	106	34715	3.750	ug/L		97
82) o Xylene	10.077	106	33959	3.685	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.144	104	54238	3.456	ug/L		98
85) Bromoform	10.175	173	3315	1.522	ug/L		94
87) Isopropylbenzene	10.476	105	44061	1.987	ug/L		100
89) Bromobenzene	10.911	156	10155	2.053	ug/L		100
90) n-Propylbenzene	10.964	91	53605	2.006	ug/L		99
91) 1,4-Dichlorobutane	10.984	55	9999	2.048	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.059	83	7783	2.067	ug/L		96
93) 4-Ethyltoluene	11.098	105	44887	2.032	ug/L		98
94) 2-Chlorotoluene	11.134	91	30600M6	2.018	ug/L		
95) 1,3,5-Trimethylbenzene	11.196	105	38830	1.972	ug/L		98
96) 1,2,3-Trichloropropane	11.196	75	6270	1.968	ug/L		98
97) trans-1,4-Dichloro-2-b...	11.257	53	2019	1.863	ug/L	#	84
98) 4-Chlorotoluene	11.321	91	31864	2.025	ug/L		99
99) tert-Butylbenzene	11.541	119	32562	1.984	ug/L		99
102) 1,2,4-Trimethylbenzene	11.620	105	36751	1.907	ug/L		98
103) sec-Butylbenzene	11.737	105	48097	1.933	ug/L		98
104) p-Isopropyltoluene	11.893	119	41773	1.915	ug/L		99
105) 1,3-Dichlorobenzene	11.954	146	21128	1.963	ug/L		98
106) 1,4-Dichlorobenzene	12.052	146	20990	1.960	ug/L		97
107) p-Diethylbenzene	12.272	119	23700	1.833	ug/L		97
108) n-Butylbenzene	12.328	91	36341	1.942	ug/L		98
109) 1,2-Dichlorobenzene	12.476	146	19818	1.960	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.070	119	36662	1.797	ug/L		100
111) 1,2-Dibromo-3-chloropr...	13.265	155	830M3	1.582	ug/L		
112) 1,3,5-Trichlorobenzene	13.293	180	14251	1.924	ug/L		97
113) Hexachlorobutadiene	13.873	225	4103	2.104	ug/L		98
114) 1,2,4-Trichlorobenzene	13.890	180	11949	1.874	ug/L		96
115) Naphthalene	14.185	128	28848	1.902	ug/L		100
116) 1,2,3-Trichlorobenzene	14.355	180	11342	1.940	ug/L		99

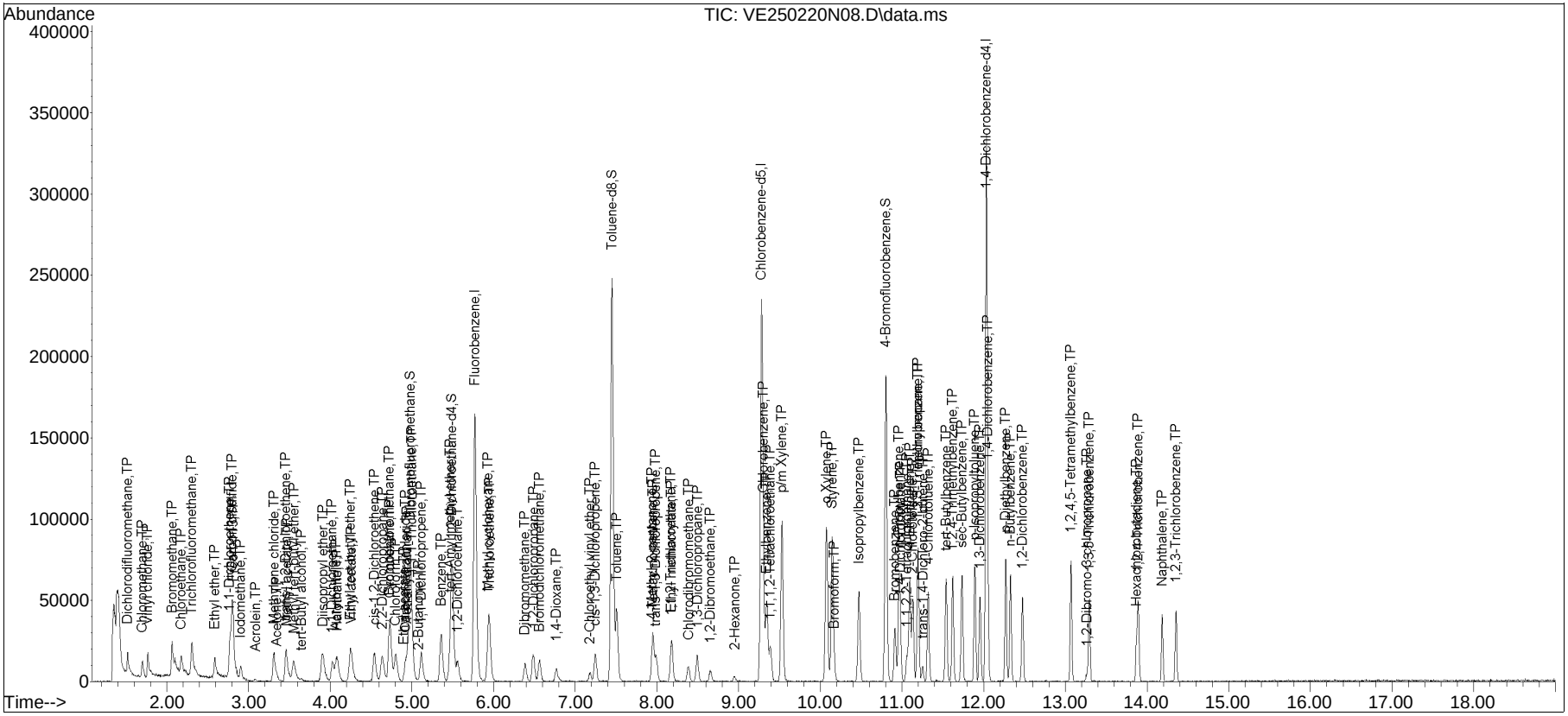
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

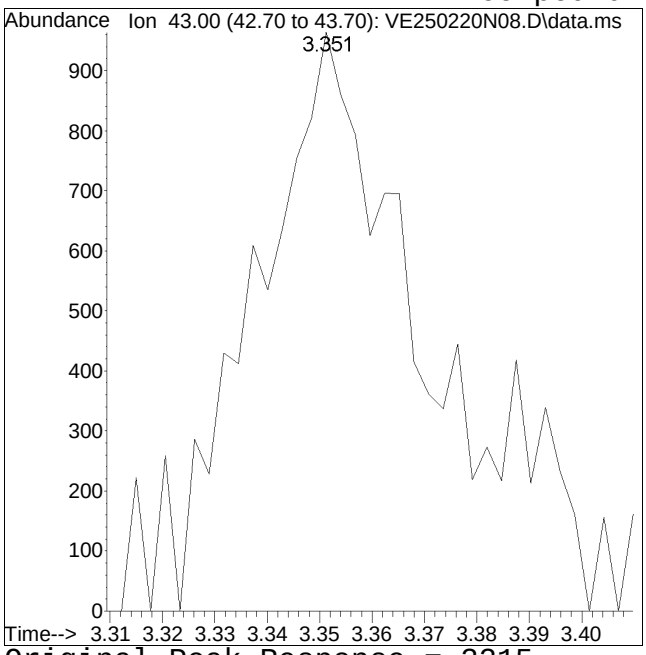
Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•



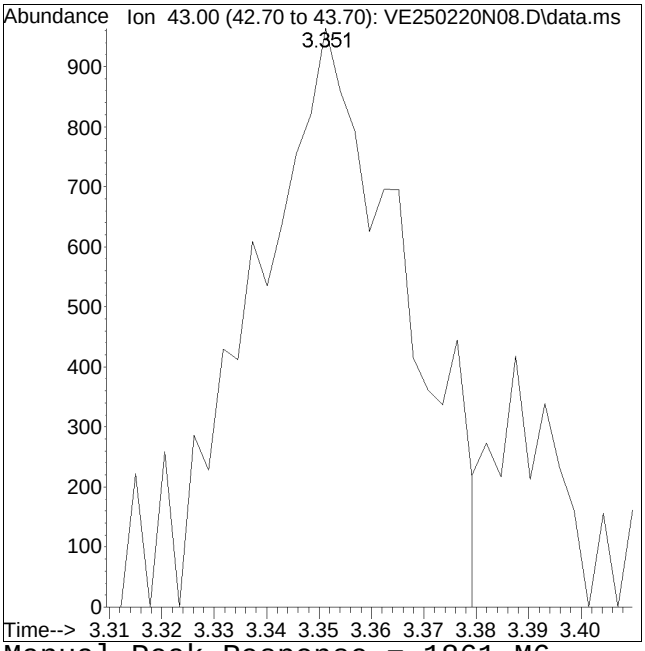
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #17: Acetone



Original Peak Response = 2215



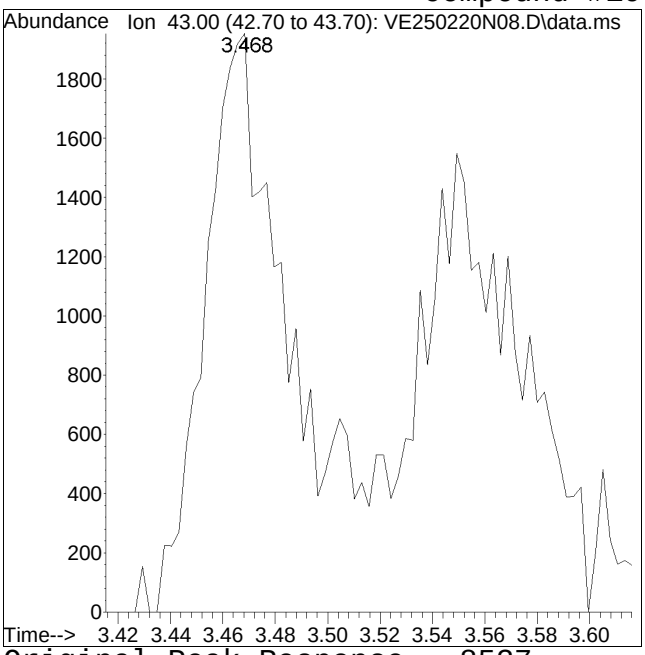
Manual Peak Response = 1861 M6

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

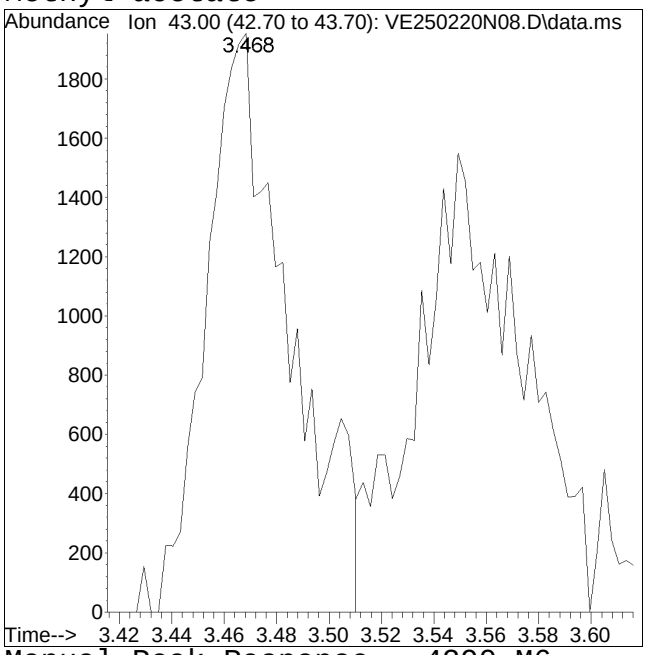
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 8537



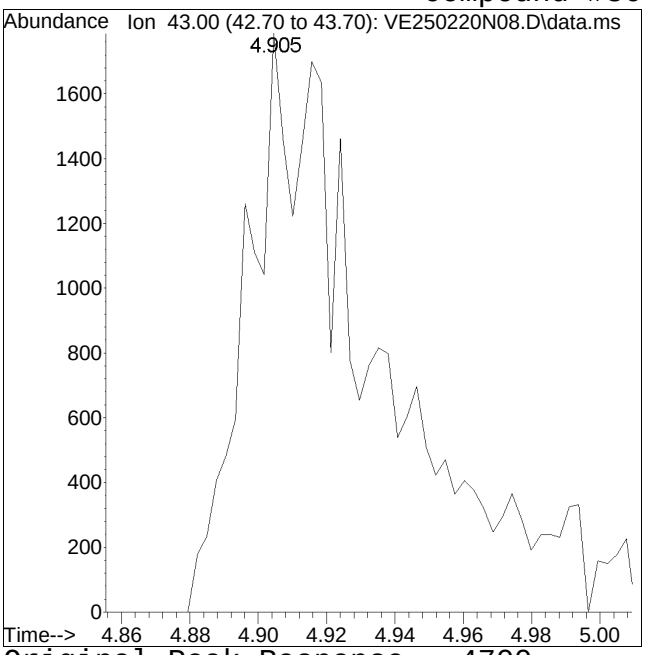
Manual Peak Response = 4290 M6

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

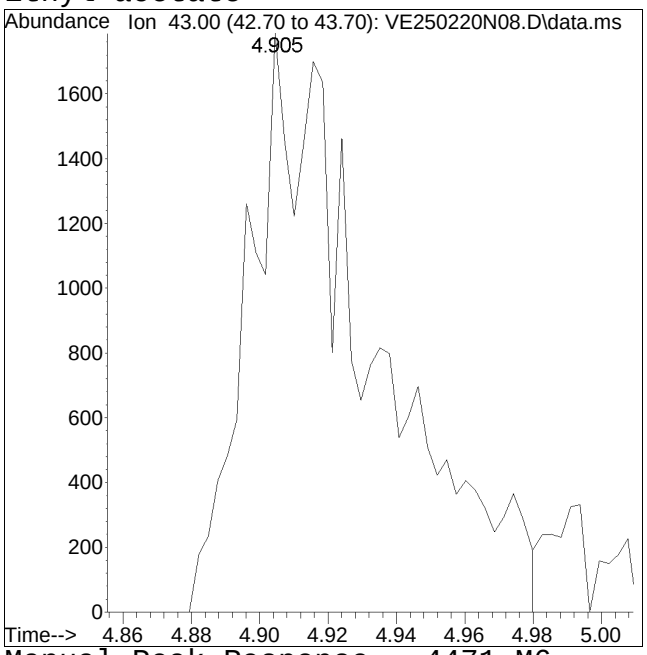
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #36: Ethyl acetate



Original Peak Response = 4700



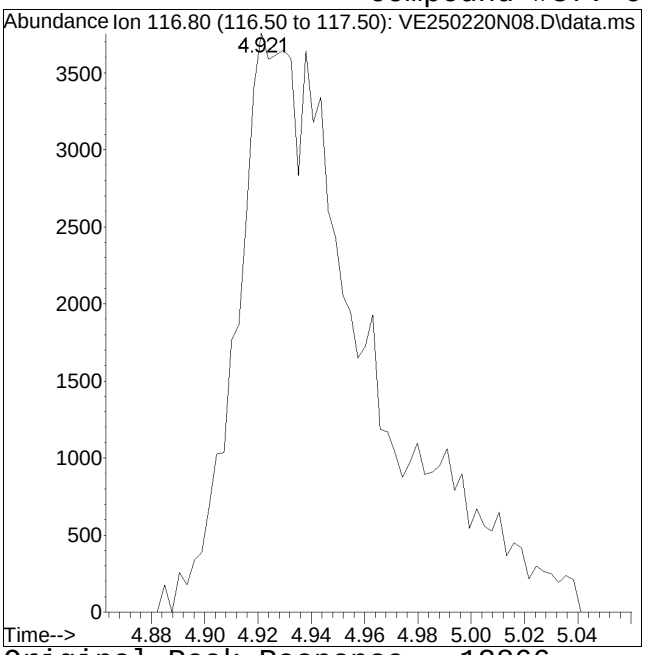
Manual Peak Response = 4471 M6

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

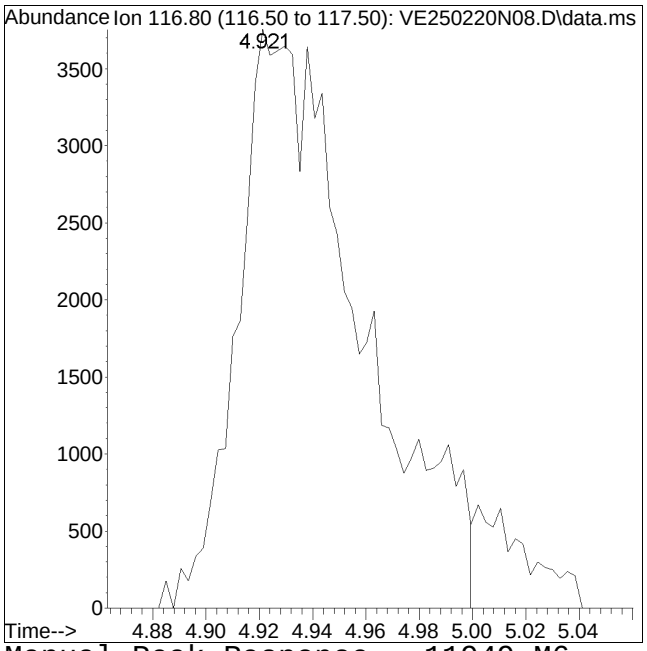
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 12866



Manual Peak Response = 11949 M6

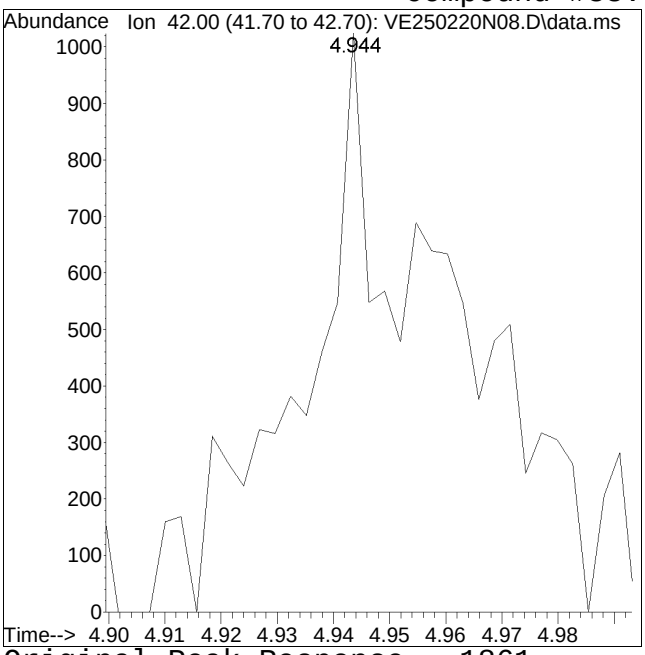
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

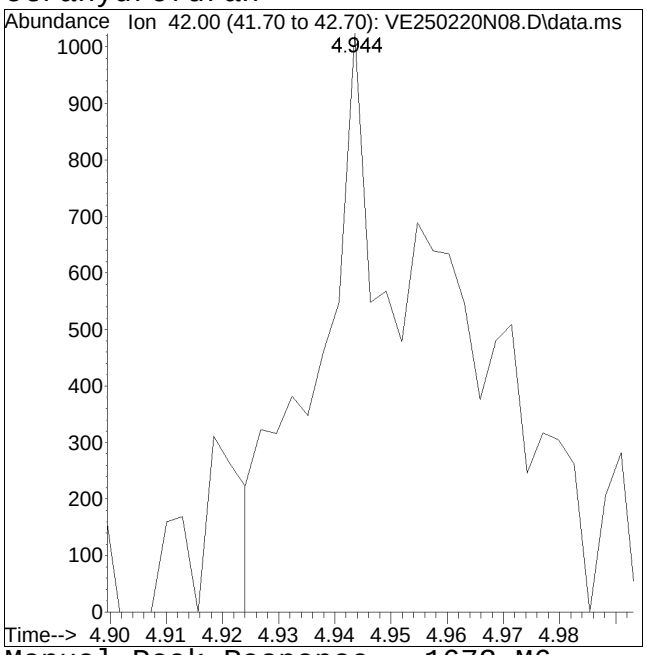
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N08.D
Date Inj'd : 2/21/2025 1:22 am
Sample : I8260STD2PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 1861



Manual Peak Response = 1673 M6

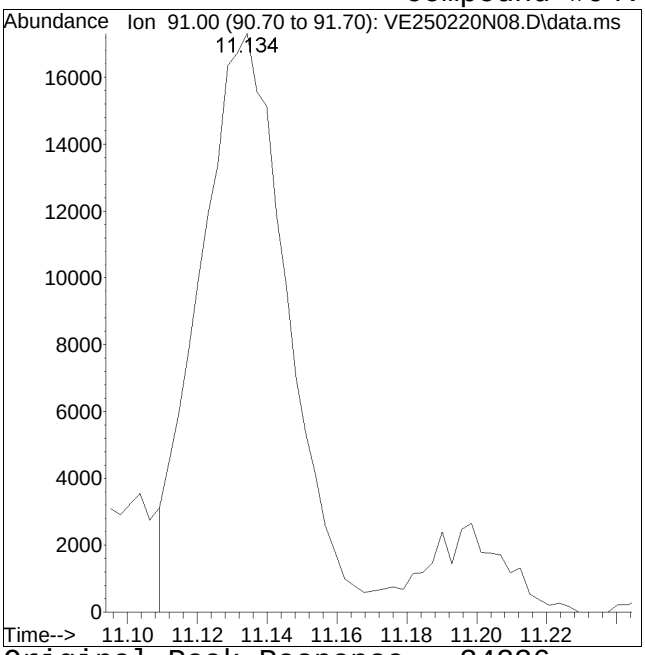
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

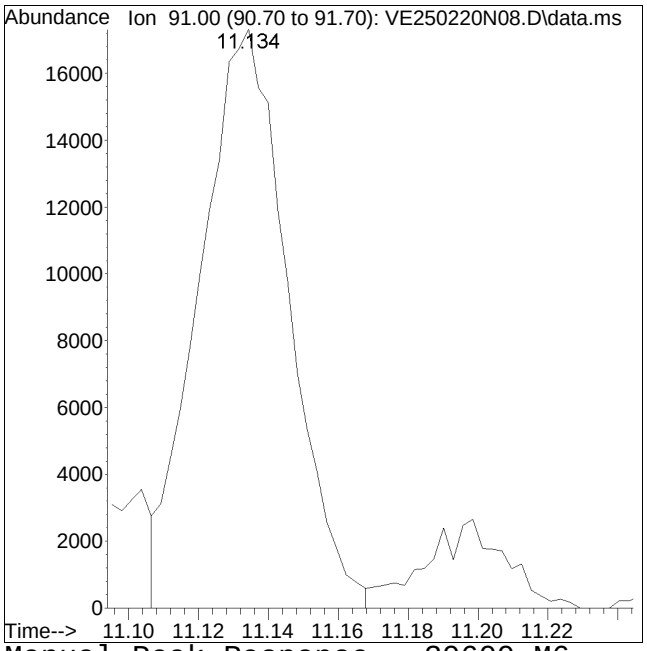
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N08.D
Date Inj'd : 2/21/2025 1:22 am
Sample : I8260STD2PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 34236



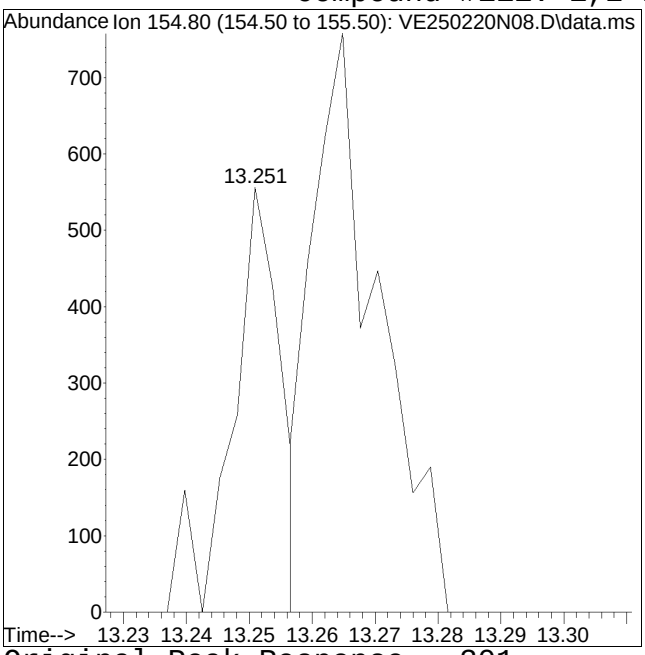
Manual Peak Response = 30600 M6

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

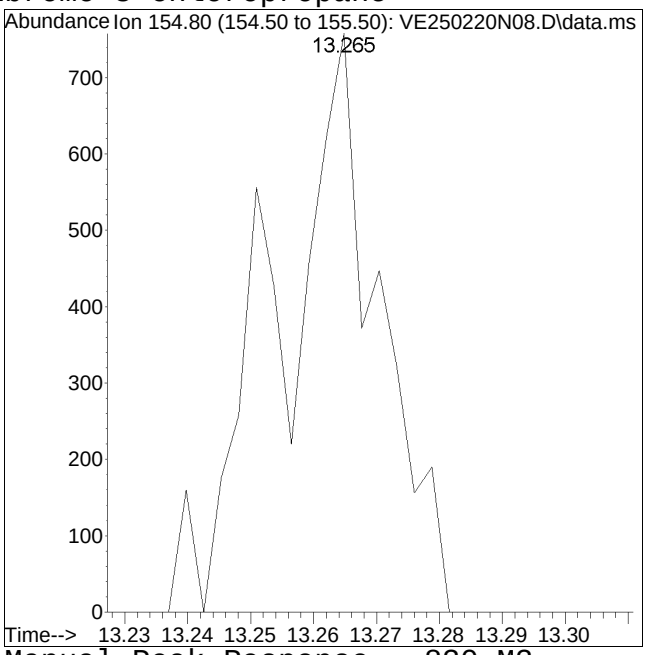
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #111: 1,2-Dibromo-3-chloropropane



Original Peak Response = 301



Manual Peak Response = 830 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.777	96	193689	10.000	ug/L	0.00
Standard Area 1 = 193689			Recovery = 100.00%			
63) Chlorobenzene-d5	9.283	117	149882	10.000	ug/L	0.00
Standard Area 1 = 149882			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.035	152	78717	10.000	ug/L	0.00
Standard Area 1 = 78717			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.980	113	54617	10.332	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.32%			
47) 1,2-Dichloroethane-d4	5.496	65	57838	10.336	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.36%			
64) Toluene-d8	7.450	98	202753	10.224	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.24%			
88) 4-Bromofluorobenzene	10.802	95	67307	10.684	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	58044	11.647	ug/L	100
3) Chloromethane	1.703	50	50871	11.323	ug/L	100
4) Vinyl chloride	1.770	62	64901	11.124	ug/L	100
5) Bromomethane	2.066	94	56017	10.877	ug/L	100
6) Chloroethane	2.180	64	50713	11.353	ug/L	100
7) Trichlorofluoromethane	2.314	101	114256	11.359	ug/L	100
8) Ethyl ether	2.595	74	32957	10.998	ug/L	100
10) 1,1-Dichloroethene	2.777	96	60110	11.048	ug/L	100
11) Carbon disulfide	2.802	76	164866	10.751	ug/L	100
12) Freon-113	2.807	101	55013	11.338	ug/L	100
13) Iodomethane	2.908	142	56626	10.692	ug/L	100
14) Acrolein	3.083	56	4190	9.648	ug/L	100
15) Methylene chloride	3.309	84	48133	10.553	ug/L	100
17) Acetone	3.348	43	7430M6	9.588	ug/L	
18) trans-1,2-Dichloroethene	3.463	96	46622	10.929	ug/L	100
19) Methyl acetate	3.463	43	20443M6	10.580	ug/L	
21) Methyl tert-butyl ether	3.549	73	100451	9.985	ug/L #	100
22) tert-Butyl alcohol	3.641	59	9767	53.328	ug/L #	100
24) Diisopropyl ether	3.906	45	112826	10.198	ug/L	100
25) 1,1-Dichloroethane	4.029	63	85391	10.831	ug/L	100
26) Halothane	4.079	117	35270	11.182	ug/L	100

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.068	53	10742	10.876	ug/L		100
28) Ethyl tert-butyl ether	4.252	59	105376	9.820	ug/L		100
29) Vinyl acetate	4.255	43	73968	9.441	ug/L		100
30) cis-1,2-Dichloroethene	4.539	96	54077	10.877	ug/L		100
31) 2,2-Dichloropropane	4.637	77	69566	10.643	ug/L	#	100
33) Bromochloromethane	4.726	128	24658	10.871	ug/L		100
34) Cyclohexane	4.734	56	83009	11.324	ug/L		100
35) Chloroform	4.801	83	84572	10.831	ug/L		100
36) Ethyl acetate	4.902	43	25278	9.829	ug/L		100
37) Carbon tetrachloride	4.930	117	64057M6	11.086	ug/L		
38) Tetrahydrofuran	4.949	42	8818M6	10.867	ug/L		
40) 1,1,1-Trichloroethane	4.994	97	72348	11.265	ug/L		100
42) 2-Butanone	5.089	43	10728	9.936	ug/L		100
43) 1,1-Dichloropropene	5.116	75	55003	10.540	ug/L		100
45) Benzene	5.359	78	175231	10.193	ug/L		100
46) tert-Amyl methyl ether	5.471	73	100419	9.890	ug/L		100
48) 1,2-Dichloroethane	5.560	62	57947	10.673	ug/L		100
51) Methyl cyclohexane	5.939	83	80386	10.528	ug/L		100
52) Trichloroethene	5.947	95	43985	10.543	ug/L		100
54) Dibromomethane	6.388	93	27652	10.594	ug/L		100
55) 1,2-Dichloropropane	6.486	63	43479	10.748	ug/L		100
57) 2-Chloroethyl vinyl ether	7.183	63	17143	10.128	ug/L		100
58) Bromodichloromethane	6.558	83	60922	10.480	ug/L		100
61) 1,4-Dioxane	6.767	88	11476	550.638	ug/L		100
62) cis-1,3-Dichloropropene	7.241	75	66017	10.490	ug/L		100
65) Toluene	7.506	92	118730	10.592	ug/L		100
66) 4-Methyl-2-pentanone	7.939	58	9412	9.845	ug/L		100
67) Tetrachloroethene	7.952	166	45236	10.490	ug/L		100
69) trans-1,3-Dichloropropene	7.994	75	54289	10.016	ug/L		100
71) Ethyl methacrylate	8.181	69	41795	10.918	ug/L		100
72) 1,1,2-Trichloroethane	8.173	83	28032	9.959	ug/L		100
73) Chlorodibromomethane	8.382	129	37963	9.691	ug/L		100
74) 1,3-Dichloropropane	8.493	76	59386	10.207	ug/L		100
75) 1,2-Dibromoethane	8.655	107	33291	10.333	ug/L		100
77) 2-Hexanone	8.945	43	16305	10.707	ug/L		100
78) Chlorobenzene	9.302	112	132309	10.376	ug/L		100
79) Ethylbenzene	9.344	91	231940	10.336	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.386	131	38733	9.744	ug/L		100
81) p/m Xylene	9.531	106	178778	19.473	ug/L		100
82) o Xylene	10.075	106	175705	19.227	ug/L		100

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.147	104	292059	18.762	ug/L	100
85) Bromoform	10.172	173	20681	9.697	ug/L	100
87) Isopropylbenzene	10.473	105	232805	10.722	ug/L	100
89) Bromobenzene	10.917	156	52318	10.802	ug/L	100
90) n-Propylbenzene	10.964	91	279283	10.671	ug/L	100
91) 1,4-Dichlorobutane	10.981	55	53152	11.118	ug/L	100
92) 1,1,2,2-Tetrachloroethane	11.062	83	41053	11.132	ug/L	100
93) 4-Ethyltoluene	11.095	105	234606	10.844	ug/L	100
94) 2-Chlorotoluene	11.132	91	158053M3	10.641	ug/L	
95) 1,3,5-Trimethylbenzene	11.196	105	201337	10.441	ug/L	100
96) 1,2,3-Trichloropropane	11.196	75	34097	10.928	ug/L	100
97) trans-1,4-Dichloro-2-b...	11.257	53	10994	10.358	ug/L	100
98) 4-Chlorotoluene	11.318	91	163200	10.589	ug/L	100
99) tert-Butylbenzene	11.541	119	169080	10.521	ug/L	100
102) 1,2,4-Trimethylbenzene	11.620	105	197057	10.439	ug/L	100
103) sec-Butylbenzene	11.734	105	256516	10.527	ug/L	100
104) p-Isopropyltoluene	11.890	119	221227	10.355	ug/L	100
105) 1,3-Dichlorobenzene	11.951	146	107400	10.189	ug/L	100
106) 1,4-Dichlorobenzene	12.049	146	108765	10.371	ug/L	100
107) p-Diethylbenzene	12.269	119	131858	10.412	ug/L	100
108) n-Butylbenzene	12.328	91	191547	10.452	ug/L	100
109) 1,2-Dichlorobenzene	12.473	146	102401	10.342	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.070	119	199183	9.970	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.256	155	5844	11.371	ug/L	100
112) 1,3,5-Trichlorobenzene	13.293	180	72734	10.030	ug/L	100
113) Hexachlorobutadiene	13.870	225	20898	10.941	ug/L	100
114) 1,2,4-Trichlorobenzene	13.895	180	64569	10.342	ug/L	100
115) Naphthalene	14.185	128	154699	10.414	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	58463	10.213	ug/L	100

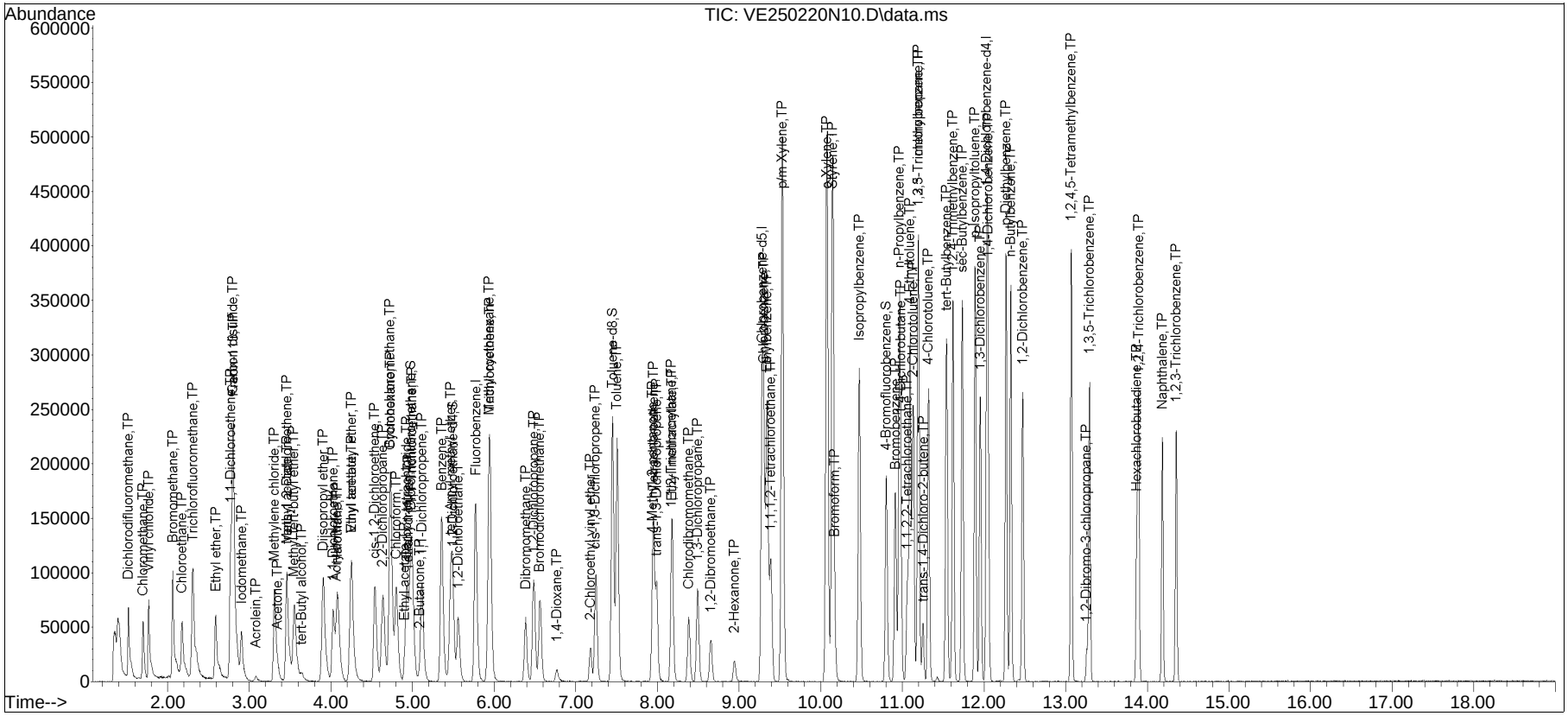
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

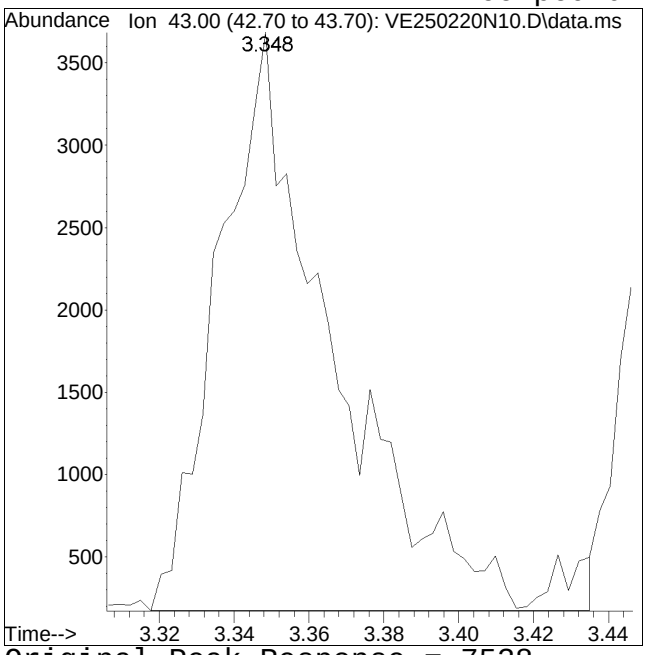


Manual Integration Report

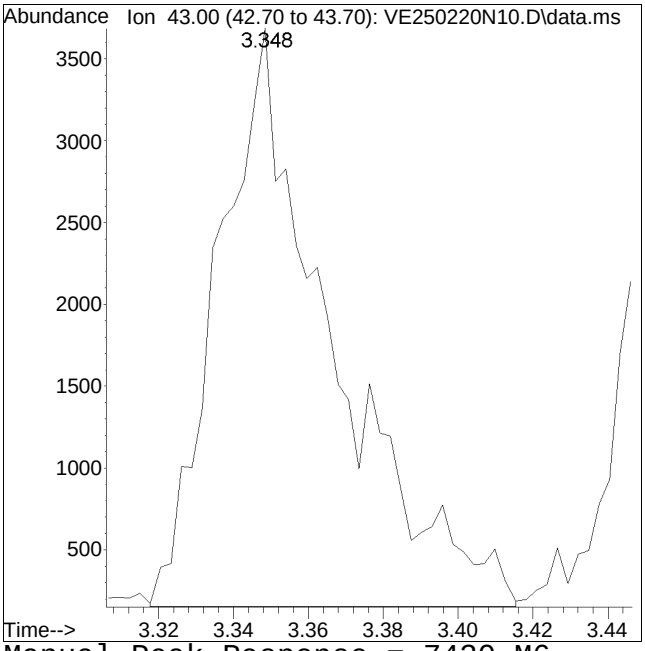
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N10.D
Date Inj'd : 2/21/2025 2:10 am
Sample : I8260STD10PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #17: Acetone



Original Peak Response = 7538



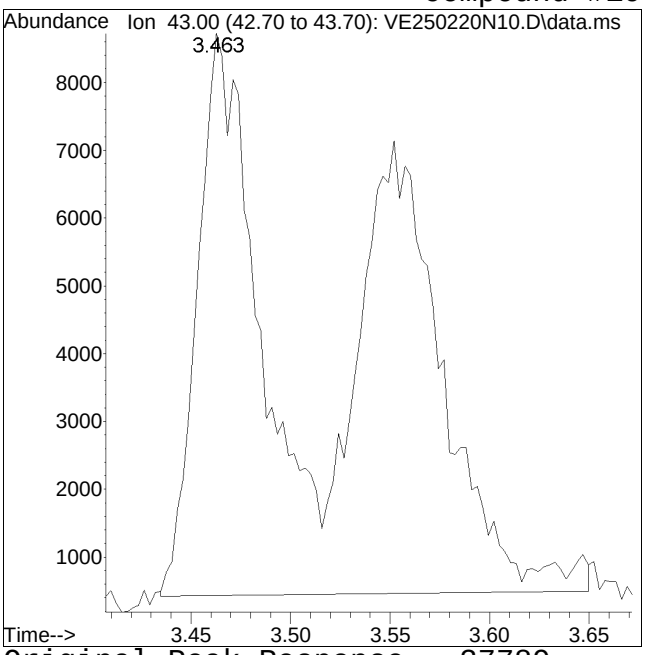
Manual Peak Response = 7430 M6

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

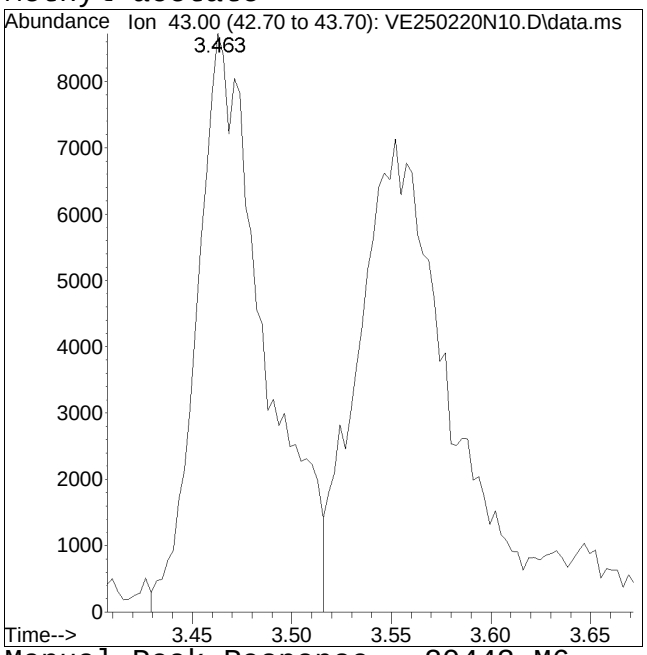
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N10.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:10 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 37789



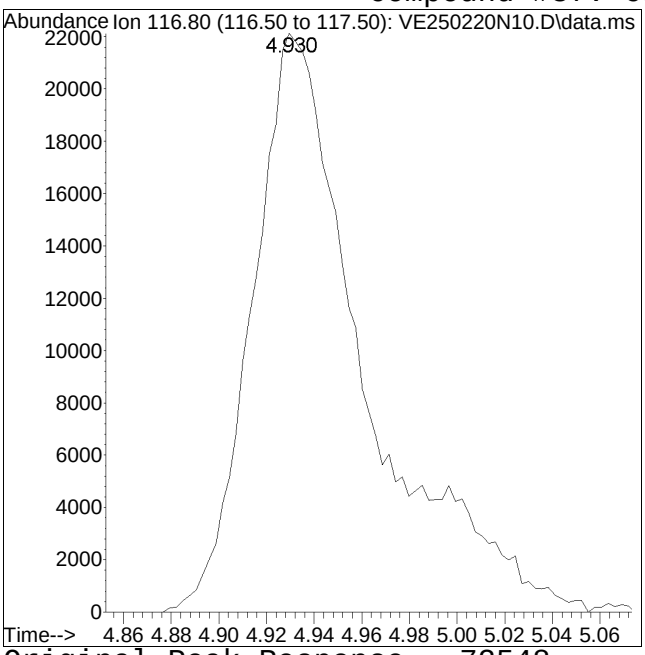
Manual Peak Response = 20443 M6

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

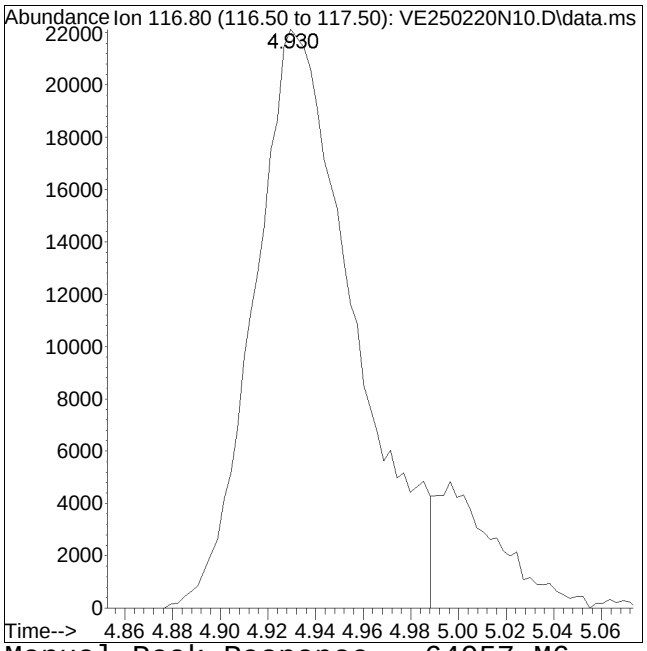
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N10.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:10 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 72548



Manual Peak Response = 64057 M6

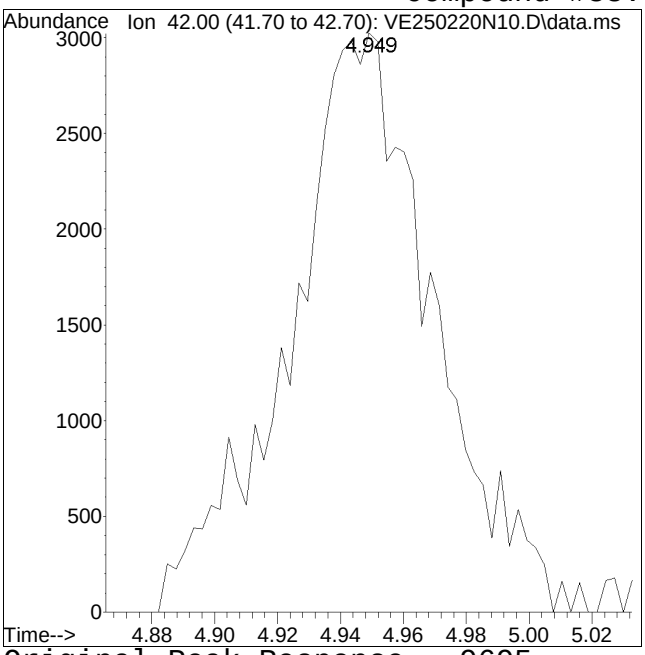
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

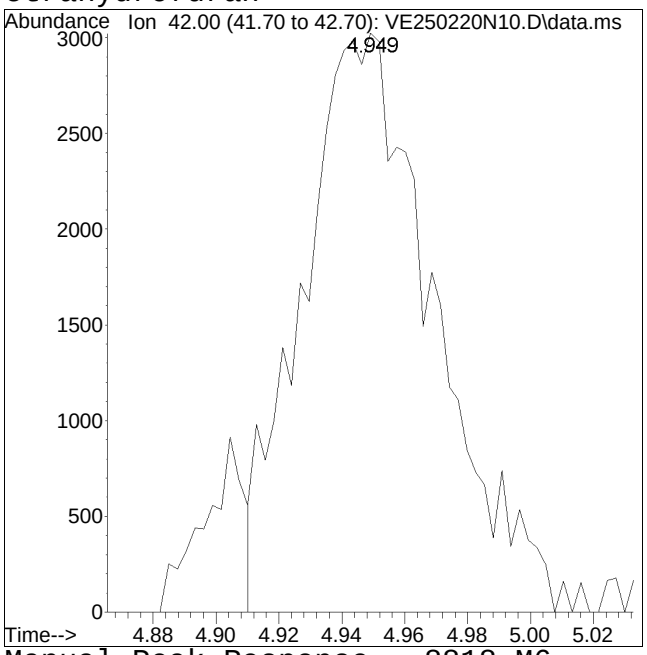
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N10.D
Date Inj'd : 2/21/2025 2:10 am
Sample : I8260STD10PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 9695



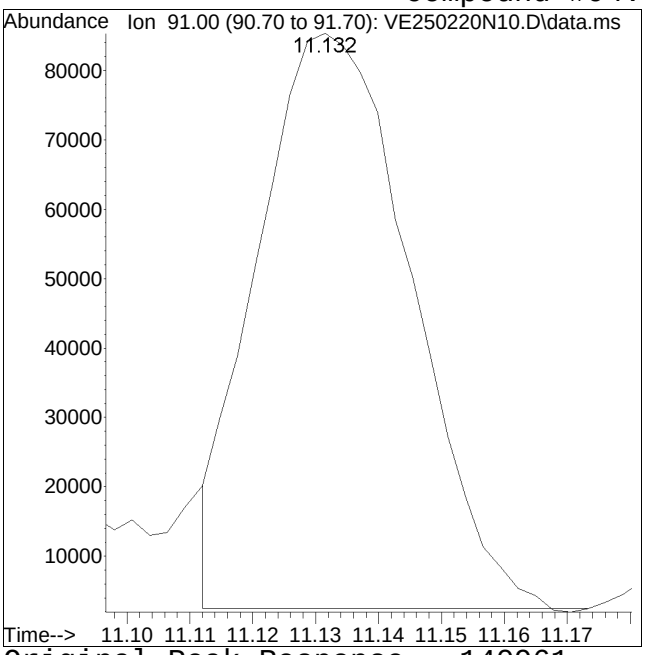
Manual Peak Response = 8818 M6

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

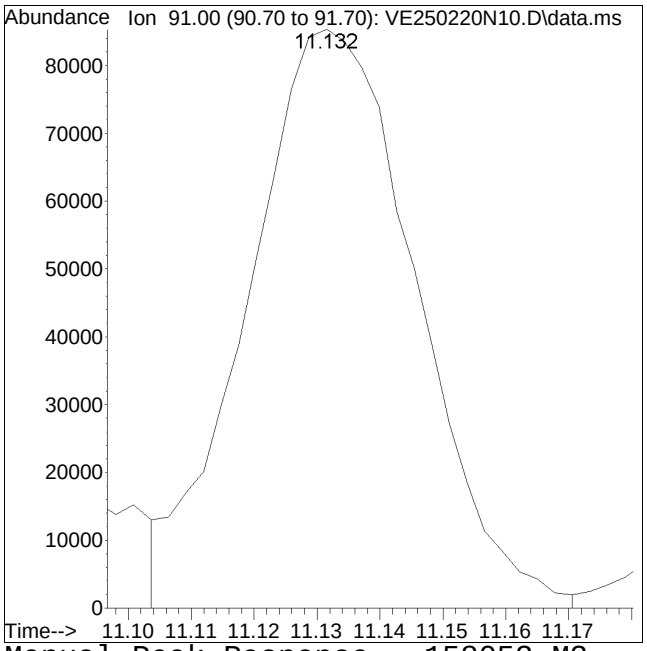
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N10.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:10 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 140961



Manual Peak Response = 158053 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	205683	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 106.19%		
63) Chlorobenzene-d5	9.283	117	152596	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 101.81%		
84) 1,4-Dichlorobenzene-d4	12.035	152	85348	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 108.42%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.977	113	54802	9.763 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.63%		
47) 1,2-Dichloroethane-d4	5.493	65	59343M6	9.987 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.87%		
64) Toluene-d8	7.453	98	203220	10.066 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.66%		
88) 4-Bromofluorobenzene	10.805	95	69916	10.236 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.36%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	172447	32.586 ug/L	100
3) Chloromethane	1.703	50	146407	30.688 ug/L	99
4) Vinyl chloride	1.770	62	193115	31.170 ug/L	99
5) Bromomethane	2.066	94	165495	30.262 ug/L	98
6) Chloroethane	2.177	64	146196	30.820 ug/L	99
7) Trichlorofluoromethane	2.308	101	333045	31.180 ug/L	99
8) Ethyl ether	2.593	74	99939	31.404 ug/L	99
10) 1,1-Dichloroethene	2.774	96	183362	31.737 ug/L	100
11) Carbon disulfide	2.805	76	534438	32.819 ug/L	100
12) Freon-113	2.813	101	183553	35.624 ug/L	100
13) Iodomethane	2.908	142	174536	31.035 ug/L	99
14) Acrolein	3.083	56	13880	30.096 ug/L	90
15) Methylene chloride	3.309	84	141680	29.252 ug/L	98
17) Acetone	3.348	43	25167	30.584 ug/L	96
18) trans-1,2-Dichloroethene	3.457	96	137019	30.245 ug/L	99
19) Methyl acetate	3.463	43	59767M6	29.129 ug/L	
21) Methyl tert-butyl ether	3.555	73	332807	31.154 ug/L #	98
22) tert-Butyl alcohol	3.644	59	30910	158.929 ug/L #	100
24) Diisopropyl ether	3.906	45	355170	30.231 ug/L	99
25) 1,1-Dichloroethane	4.029	63	254590	30.410 ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.085	117	106219	31.712	ug/L		100
27) Acrylonitrile	4.071	53	31485	30.020	ug/L		98
28) Ethyl tert-butyl ether	4.249	59	342240	30.033	ug/L		97
29) Vinyl acetate	4.255	43	255938	30.761	ug/L		99
30) cis-1,2-Dichloroethene	4.539	96	159554	30.220	ug/L		99
31) 2,2-Dichloropropane	4.637	77	216998	31.262	ug/L	#	80
33) Bromochloromethane	4.726	128	72038	29.908	ug/L		98
34) Cyclohexane	4.732	56	253012	32.502	ug/L		97
35) Chloroform	4.804	83	249401	30.077	ug/L		99
36) Ethyl acetate	4.904	43	84380	30.896	ug/L		98
37) Carbon tetrachloride	4.935	117	200913M6	32.742	ug/L		
38) Tetrahydrofuran	4.943	42	25921M6	30.081	ug/L		
40) 1,1,1-Trichloroethane	4.999	97	219632	32.203	ug/L		98
42) 2-Butanone	5.080	43	36068	31.456	ug/L		92
43) 1,1-Dichloropropene	5.114	75	179010	32.304	ug/L		99
45) Benzene	5.359	78	559064	30.624	ug/L		99
46) tert-Amyl methyl ether	5.468	73	319023	29.587	ug/L		98
48) 1,2-Dichloroethane	5.560	62	172477	29.914	ug/L		100
51) Methyl cyclohexane	5.936	83	253699	31.288	ug/L		98
52) Trichloroethene	5.947	95	143818	32.464	ug/L		99
54) Dibromomethane	6.385	93	83191	30.014	ug/L		100
55) 1,2-Dichloropropane	6.486	63	138036	32.134	ug/L		99
57) 2-Chloroethyl vinyl ether	7.180	63	57444	31.957	ug/L		99
58) Bromodichloromethane	6.564	83	196051	31.758	ug/L		99
61) 1,4-Dioxane	6.764	88	15591	704.460	ug/L		99
62) cis-1,3-Dichloropropene	7.247	75	226553	33.900	ug/L		98
65) Toluene	7.506	92	346279	30.342	ug/L		97
66) 4-Methyl-2-pentanone	7.941	58	29821	30.639	ug/L		98
67) Tetrachloroethene	7.952	166	137347	31.284	ug/L		99
69) trans-1,3-Dichloropropene	7.989	75	184993	33.523	ug/L		100
71) Ethyl methacrylate	8.181	69	127411	32.693	ug/L		97
72) 1,1,2-Trichloroethane	8.173	83	88874	31.014	ug/L		98
73) Chlorodibromomethane	8.385	129	128030	32.101	ug/L		99
74) 1,3-Dichloropropane	8.496	76	188564	31.832	ug/L		100
75) 1,2-Dibromoethane	8.650	107	104979	32.004	ug/L		97
77) 2-Hexanone	8.940	43	51491	33.212	ug/L		99
78) Chlorobenzene	9.305	112	395089	30.432	ug/L		99
79) Ethylbenzene	9.344	91	716458	31.359	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.386	131	125073	30.903	ug/L		100
81) p/m Xylene	9.531	106	563660	60.304	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.075	106	555358	59.690	ug/L	100
83) Styrene	10.147	104	955496	60.290	ug/L	100
85) Bromoform	10.167	173	73152	31.634	ug/L	96
87) Isopropylbenzene	10.473	105	751644	31.927	ug/L	100
89) Bromobenzene	10.917	156	162571	30.957	ug/L	100
90) n-Propylbenzene	10.967	91	895574	31.561	ug/L	100
91) 1,4-Dichlorobutane	10.978	55	160505	30.965	ug/L	97
92) 1,1,2,2-Tetrachloroethane	11.062	83	128005	32.012	ug/L	98
93) 4-Ethyltoluene	11.095	105	743412	31.691	ug/L	99
94) 2-Chlorotoluene	11.131	91	520115M6	32.297	ug/L	
95) 1,3,5-Trimethylbenzene	11.196	105	654779	31.318	ug/L	99
96) 1,2,3-Trichloropropane	11.193	75	102523M6	30.304	ug/L	
97) trans-1,4-Dichloro-2-b...	11.249	53	36259M6	31.508	ug/L	
98) 4-Chlorotoluene	11.321	91	515948	30.876	ug/L	100
99) tert-Butylbenzene	11.541	119	547761	31.436	ug/L	99
102) 1,2,4-Trimethylbenzene	11.619	105	649332	31.725	ug/L	98
103) sec-Butylbenzene	11.734	105	841185	31.839	ug/L	99
104) p-Isopropyltoluene	11.893	119	730542	31.537	ug/L	100
105) 1,3-Dichlorobenzene	11.957	146	345999	30.276	ug/L	99
106) 1,4-Dichlorobenzene	12.049	146	346972	30.514	ug/L	99
107) p-Diethylbenzene	12.272	119	439353	31.998	ug/L	99
108) n-Butylbenzene	12.328	91	649851	32.705	ug/L	99
109) 1,2-Dichlorobenzene	12.476	146	323248	30.110	ug/L	99
110) 1,2,4,5-Tetramethylben...	13.070	119	665104	30.706	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.262	155	19507	35.007	ug/L	95
112) 1,3,5-Trichlorobenzene	13.293	180	241520	30.717	ug/L	100
113) Hexachlorobutadiene	13.873	225	67882	32.779	ug/L	98
114) 1,2,4-Trichlorobenzene	13.892	180	208232	30.761	ug/L	98
115) Naphthalene	14.185	128	497091	30.862	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	188075	30.301	ug/L	99

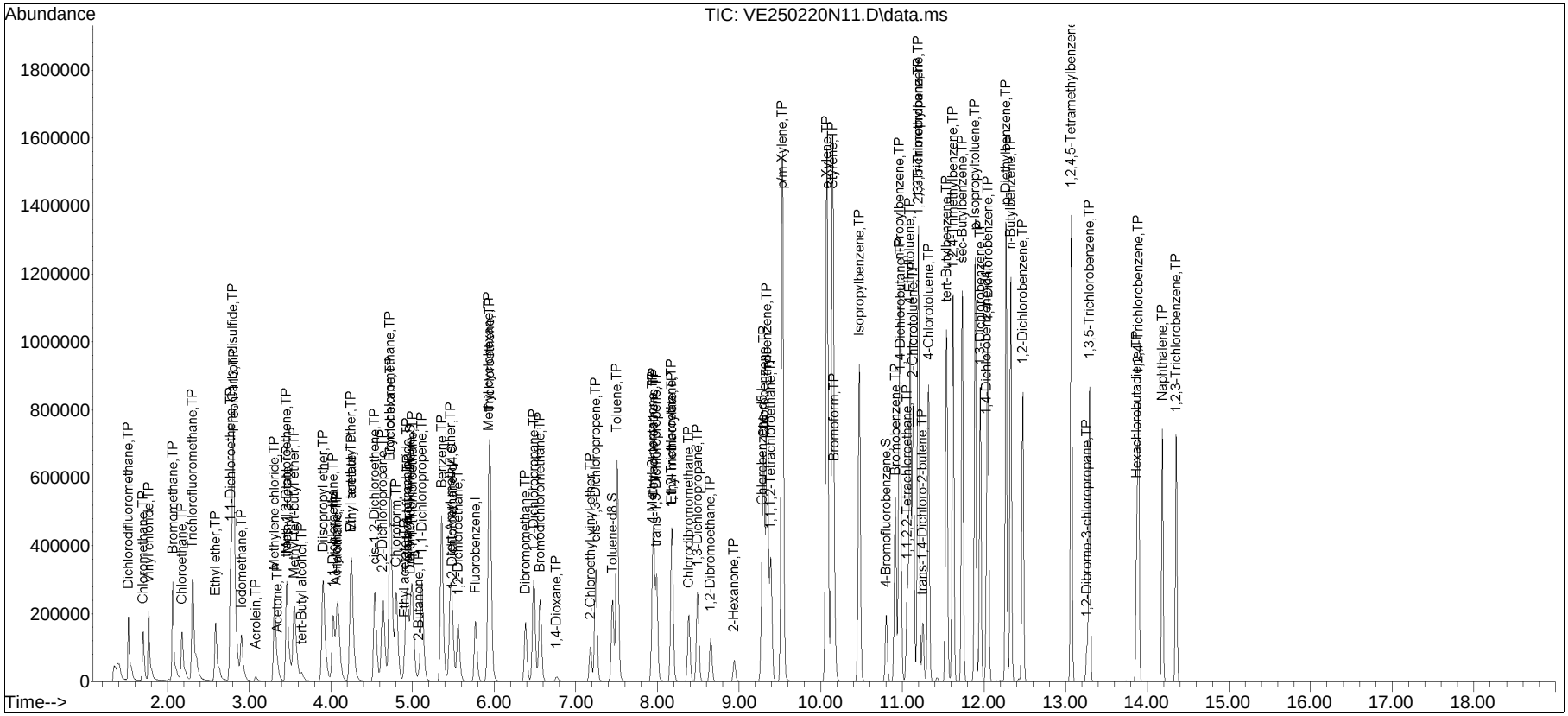
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

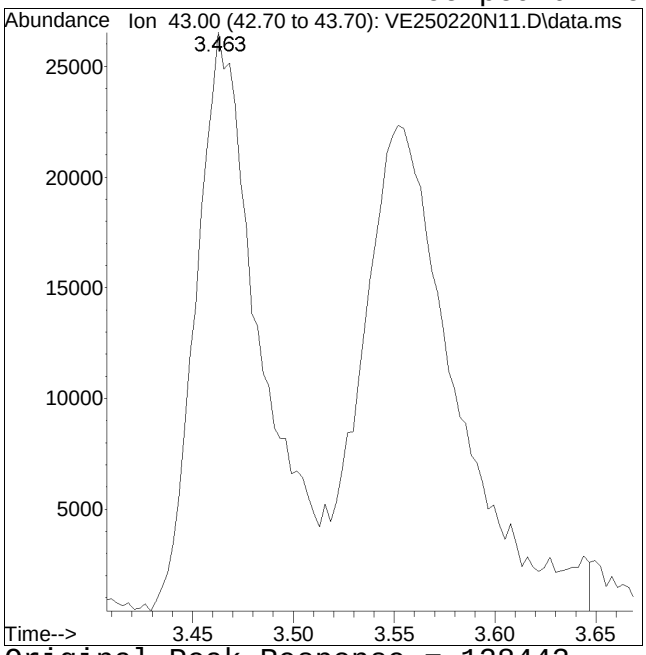


Manual Integration Report

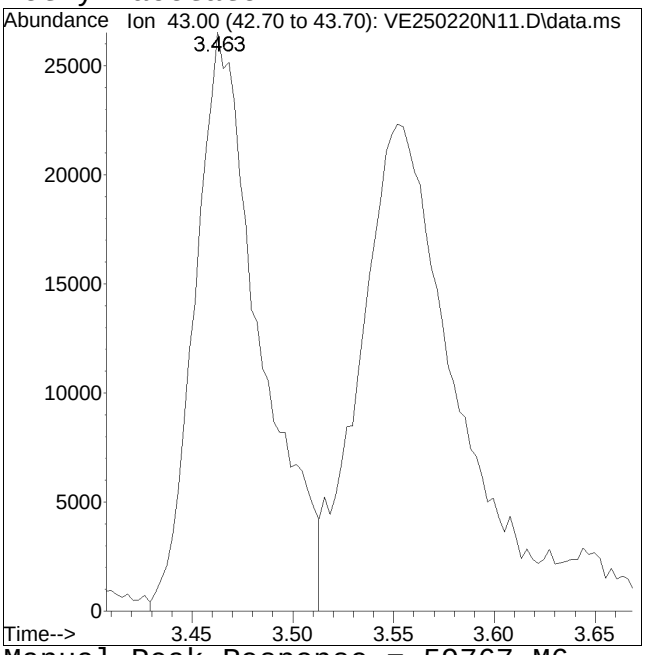
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N11.D
Date Inj'd : 2/21/2025 2:34 am
Sample : I8260STD30PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 128442



Manual Peak Response = 59767 M6

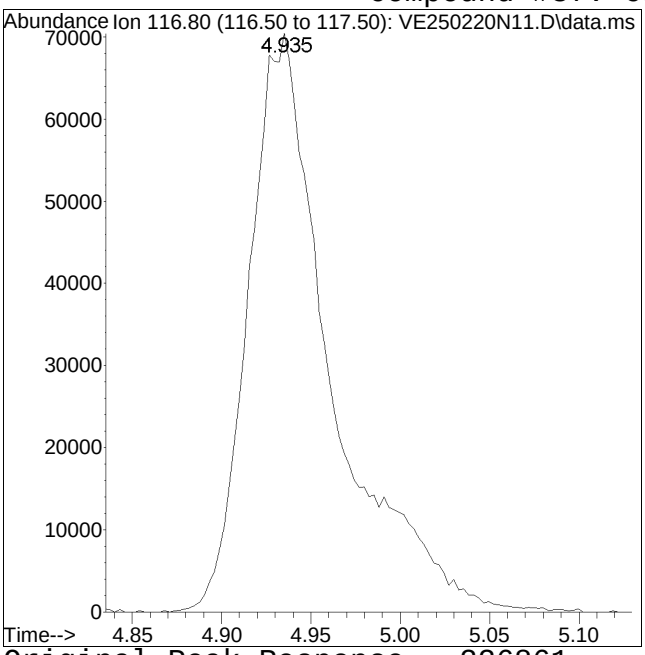
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

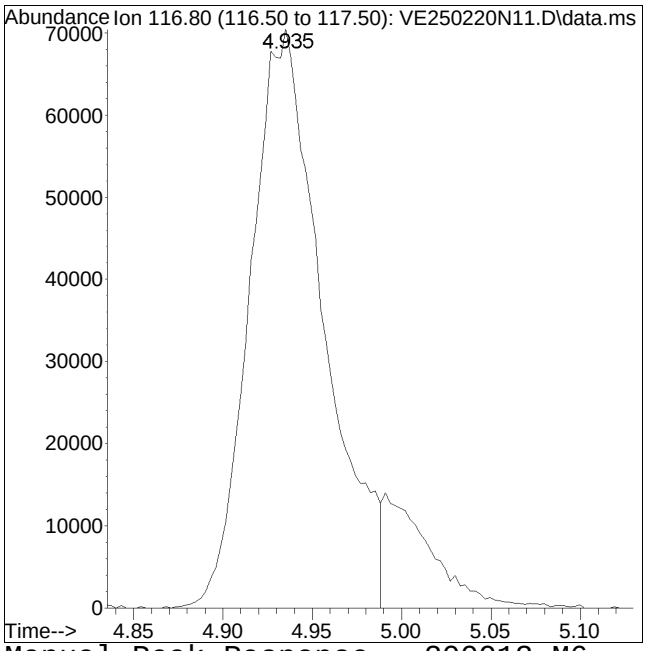
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N11.D
Date Inj'd : 2/21/2025 2:34 am
Sample : I8260STD30PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 226861



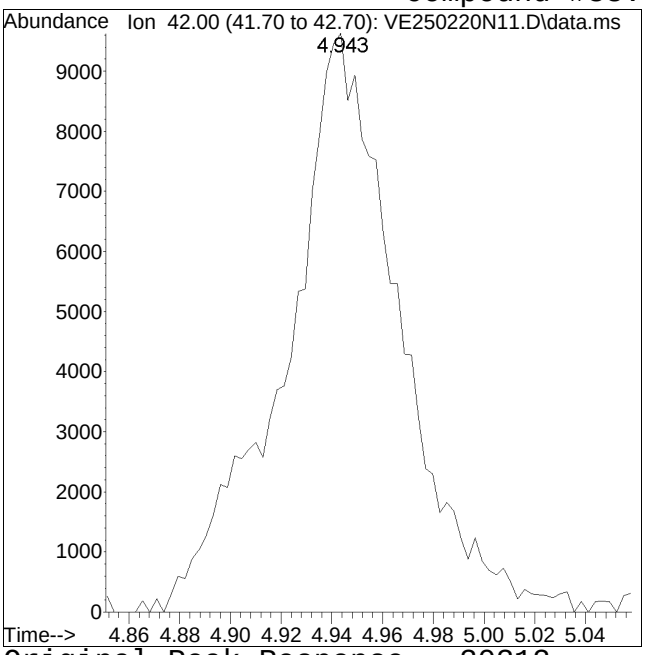
Manual Peak Response = 200913 M6

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

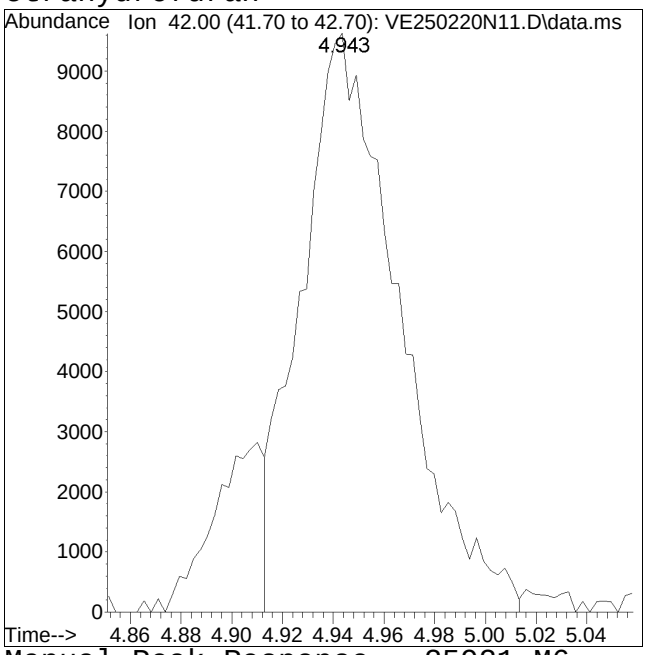
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 30312



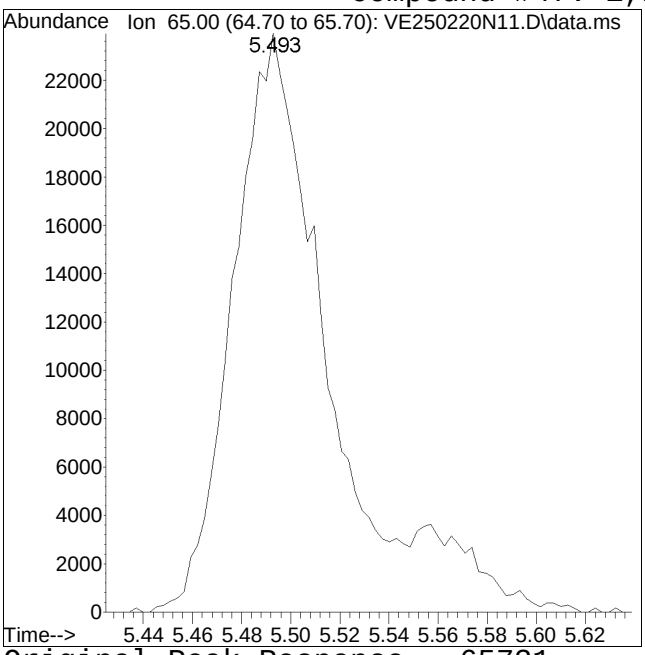
Manual Peak Response = 25921 M6

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

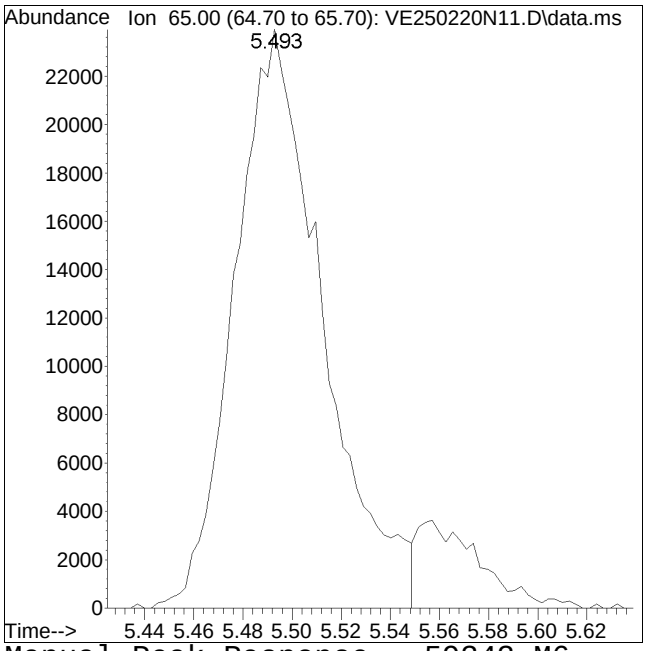
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 65731



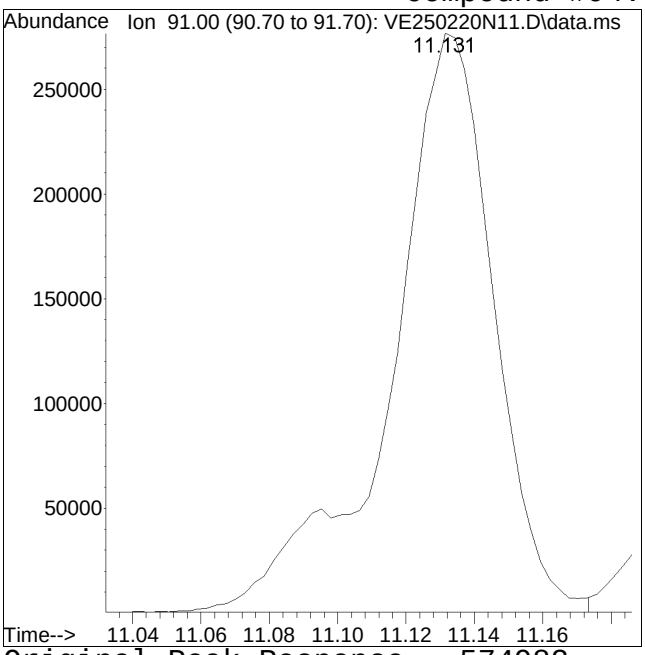
Manual Peak Response = 59343 M6

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

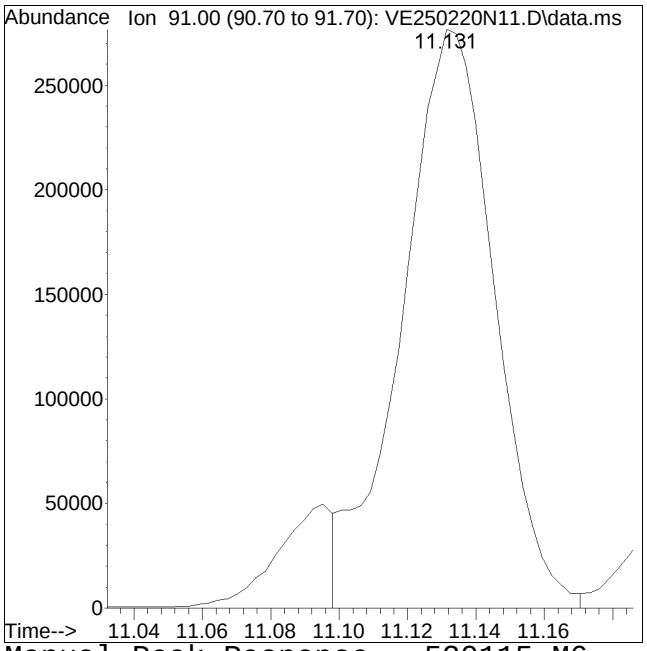
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 574982



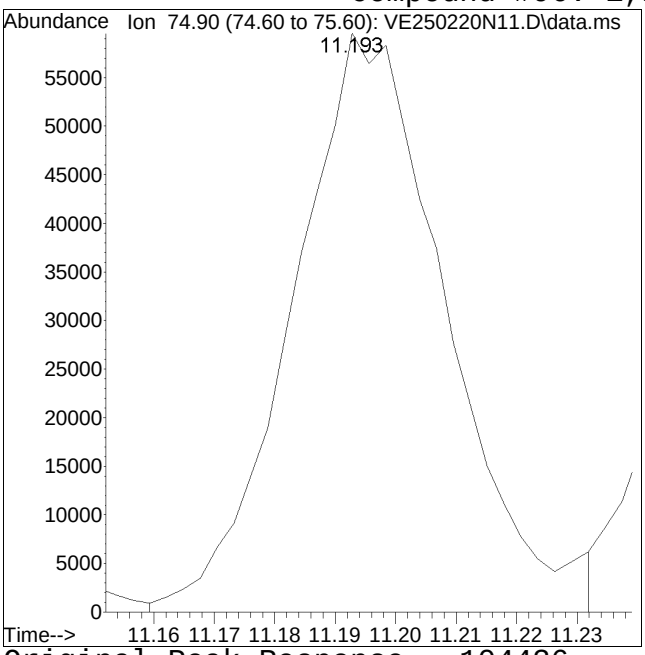
Manual Peak Response = 520115 M6

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

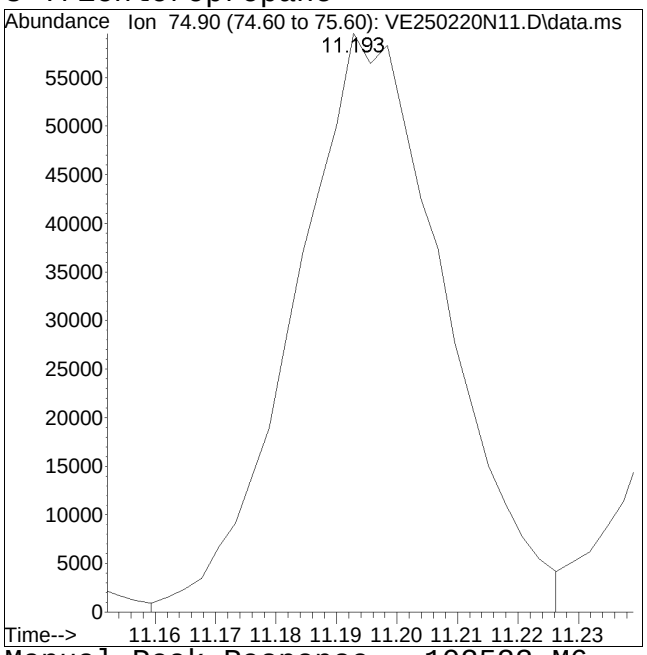
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 104436



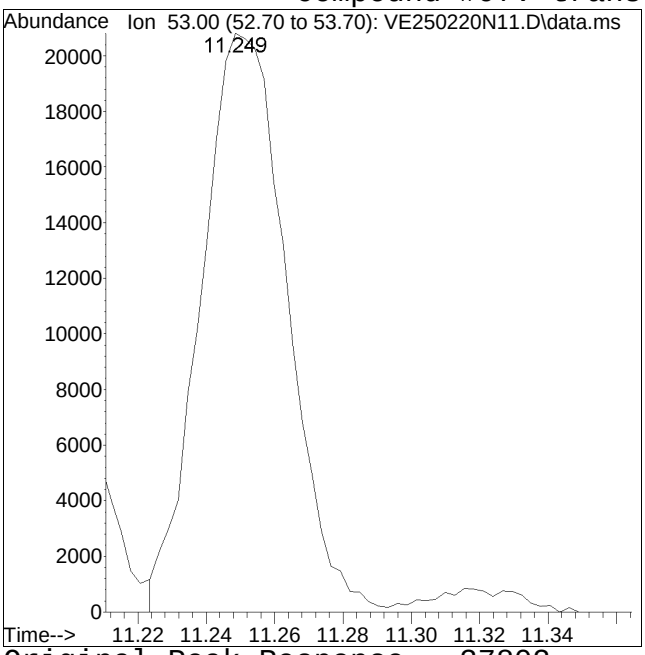
Manual Peak Response = 102523 M6

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

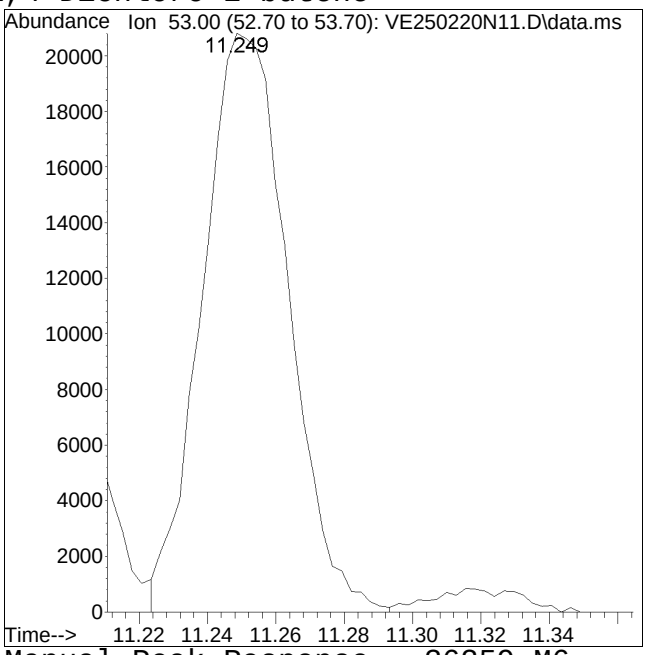
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #97: trans-1,4-Dichloro-2-butene



Original Peak Response = 37802



Manual Peak Response = 36259 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	219631	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 113.39%		
63) Chlorobenzene-d5	9.285	117	160640	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 107.18%		
84) 1,4-Dichlorobenzene-d4	12.035	152	96080	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 122.06%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.974	113	55908	9.327 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.27%		
47) 1,2-Dichloroethane-d4	5.490	65	58371M6	9.199 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.99%		
64) Toluene-d8	7.450	98	208464	9.808 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.08%		
88) 4-Bromofluorobenzene	10.802	95	73832	9.602 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.02%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	459713	81.352 ug/L	99
3) Chloromethane	1.700	50	390420	76.637 ug/L	100
4) Vinyl chloride	1.770	62	520515	78.680 ug/L	99
5) Bromomethane	2.066	94	464282	79.505 ug/L	97
6) Chloroethane	2.177	64	401065	79.180 ug/L	99
7) Trichlorofluoromethane	2.308	101	896511	78.603 ug/L	99
8) Ethyl ether	2.590	74	276460	81.356 ug/L	98
10) 1,1-Dichloroethene	2.777	96	493854	80.049 ug/L	99
11) Carbon disulfide	2.802	76	1408390	80.993 ug/L	100
12) Freon-113	2.810	101	467399	84.952 ug/L	100
13) Iodomethane	2.908	142	487739	81.220 ug/L	99
14) Acrolein	3.081	56	39924	81.071 ug/L	89
15) Methylene chloride	3.312	84	390740	75.552 ug/L	98
17) Acetone	3.348	43	69319	78.890 ug/L	98
18) trans-1,2-Dichloroethene	3.460	96	379188	78.386 ug/L	99
19) Methyl acetate	3.465	43	167259M6	76.340 ug/L	
21) Methyl tert-butyl ether	3.557	73	981475	86.041 ug/L #	97
22) tert-Butyl alcohol	3.641	59	89040	428.740 ug/L #	100
24) Diisopropyl ether	3.906	45	1053277	83.959 ug/L	100
25) 1,1-Dichloroethane	4.029	63	687632	76.919 ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.087	117	292181	81.692	ug/L		99
27) Acrylonitrile	4.071	53	88019	78.594	ug/L		97
28) Ethyl tert-butyl ether	4.249	59	1047020	86.044	ug/L		98
29) Vinyl acetate	4.257	43	719642	80.999	ug/L		99
30) cis-1,2-Dichloroethene	4.539	96	438374	77.757	ug/L		99
31) 2,2-Dichloropropane	4.639	77	590813	79.711	ug/L	#	80
33) Bromochloromethane	4.729	128	199542	77.584	ug/L		96
34) Cyclohexane	4.731	56	680931	81.919	ug/L		97
35) Chloroform	4.801	83	677816	76.551	ug/L		97
36) Ethyl acetate	4.904	43	245169	84.068	ug/L		99
37) Carbon tetrachloride	4.932	117	552273M6	84.286	ug/L		
38) Tetrahydrofuran	4.938	42	69749M6	75.803	ug/L		
40) 1,1,1-Trichloroethane	4.996	97	589057	80.884	ug/L		99
42) 2-Butanone	5.080	43	103241	84.322	ug/L		91
43) 1,1-Dichloropropene	5.116	75	498082	84.174	ug/L		100
45) Benzene	5.356	78	1595682	81.857	ug/L		99
46) tert-Amyl methyl ether	5.468	73	957903	83.198	ug/L		98
48) 1,2-Dichloroethane	5.560	62	478911	77.787	ug/L		99
51) Methyl cyclohexane	5.942	83	736314	85.041	ug/L		99
52) Trichloroethene	5.950	95	420693	88.932	ug/L		100
54) Dibromomethane	6.385	93	232998	78.724	ug/L		99
55) 1,2-Dichloropropane	6.488	63	391502	85.350	ug/L		99
57) 2-Chloroethyl vinyl ether	7.177	63	175228	91.292	ug/L		98
58) Bromodichloromethane	6.561	83	546401	82.890	ug/L		100
61) 1,4-Dioxane	6.773	88	20059	848.782	ug/L		98
62) cis-1,3-Dichloropropene	7.244	75	659537	92.422	ug/L		99
65) Toluene	7.506	92	976238	81.258	ug/L		99
66) 4-Methyl-2-pentanone	7.938	58	84052	82.033	ug/L		100
67) Tetrachloroethene	7.952	166	385382	83.384	ug/L		99
69) trans-1,3-Dichloropropene	7.991	75	547278	94.208	ug/L		98
71) Ethyl methacrylate	8.181	69	353571	86.181	ug/L		92
72) 1,1,2-Trichloroethane	8.175	83	262401	86.984	ug/L		99
73) Chlorodibromomethane	8.385	129	385511	91.819	ug/L		99
74) 1,3-Dichloropropane	8.493	76	541957	86.909	ug/L		100
75) 1,2-Dibromoethane	8.655	107	304481	88.175	ug/L		96
77) 2-Hexanone	8.940	43	144319	88.426	ug/L		96
78) Chlorobenzene	9.302	112	1111159	81.303	ug/L		100
79) Ethylbenzene	9.344	91	2003073	83.284	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.391	131	373770	87.728	ug/L		100
81) p/m Xylene	9.531	106	1643489	167.026	ug/L		100

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.077	106	1672728	170.782	ug/L	99
83) Styrene	10.147	104	2934436	175.886	ug/L	99
85) Bromoform	10.169	173	241575	92.797	ug/L	98
87) Isopropylbenzene	10.473	105	2209585	83.372	ug/L	100
89) Bromobenzene	10.914	156	472990	80.008	ug/L	100
90) n-Propylbenzene	10.967	91	2642821	82.732	ug/L	100
91) 1,4-Dichlorobutane	10.984	55	459299	78.711	ug/L	97
92) 1,1,2,2-Tetrachloroethane	11.062	83	362822	80.601	ug/L	99
93) 4-Ethyltoluene	11.098	105	2158271	81.729	ug/L	99
94) 2-Chlorotoluene	11.134	91	1452654M6	80.127	ug/L	
95) 1,3,5-Trimethylbenzene	11.198	105	1940135	82.432	ug/L	99
96) 1,2,3-Trichloropropane	11.198	75	305651	80.255	ug/L	98
97) trans-1,4-Dichloro-2-b...	11.254	53	105835	81.695	ug/L	89
98) 4-Chlorotoluene	11.324	91	1508785	80.204	ug/L	99
99) tert-Butylbenzene	11.541	119	1628428	83.016	ug/L	99
102) 1,2,4-Trimethylbenzene	11.622	105	1970352	85.514	ug/L	98
103) sec-Butylbenzene	11.734	105	2492168	83.793	ug/L	100
104) p-Isopropyltoluene	11.893	119	2206039	84.597	ug/L	100
105) 1,3-Dichlorobenzene	11.957	146	1038886	80.752	ug/L	99
106) 1,4-Dichlorobenzene	12.049	146	1032914	80.693	ug/L	99
107) p-Diethylbenzene	12.272	119	1327428	85.878	ug/L	98
108) n-Butylbenzene	12.331	91	1927019	86.149	ug/L	99
109) 1,2-Dichlorobenzene	12.476	146	967189	80.029	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.070	119	2098819	86.074	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.259	155	57763	92.081	ug/L	91
112) 1,3,5-Trichlorobenzene	13.293	180	717513	81.061	ug/L	100
113) Hexachlorobutadiene	13.875	225	188934	81.043	ug/L	99
114) 1,2,4-Trichlorobenzene	13.895	180	614372	80.620	ug/L	100
115) Naphthalene	14.185	128	1504293	82.962	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	567130	81.166	ug/L	99

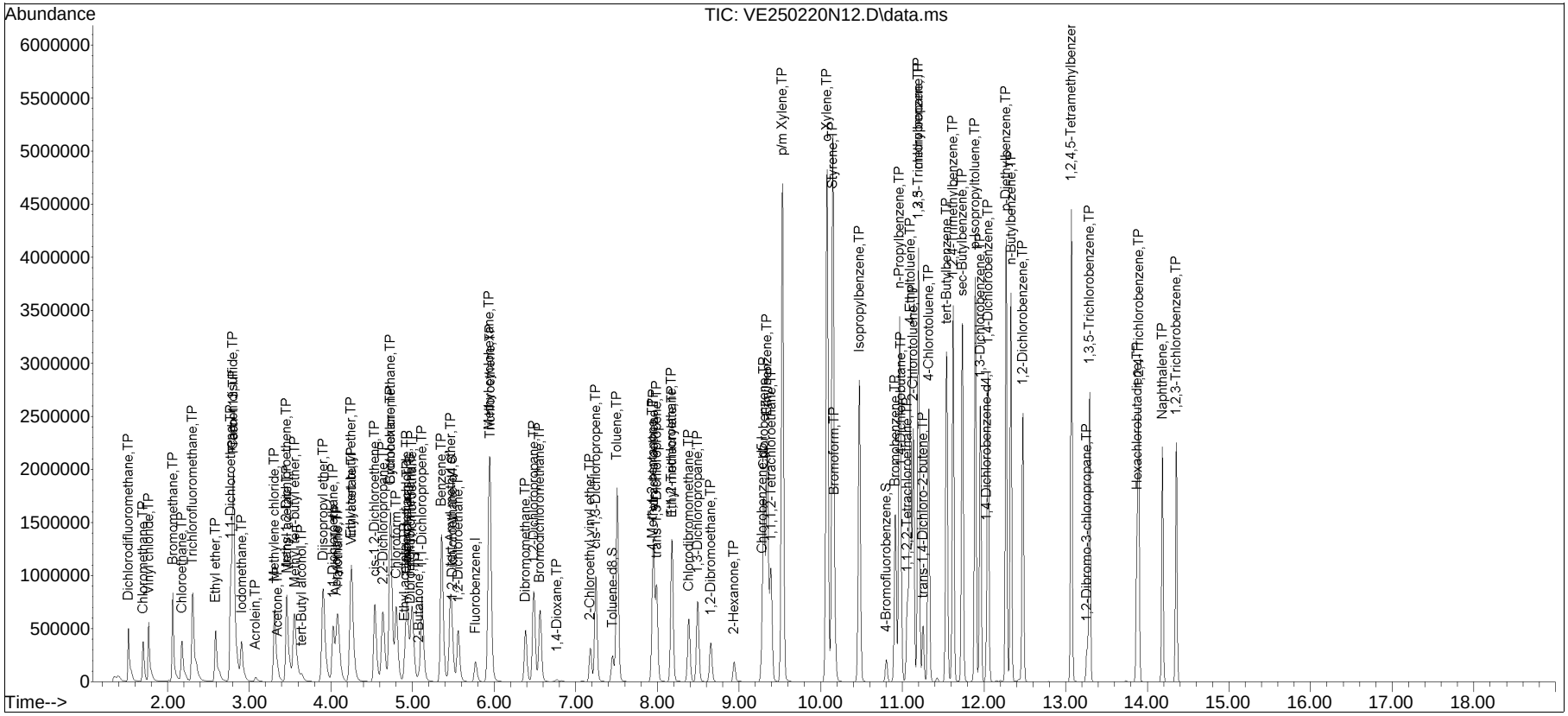
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

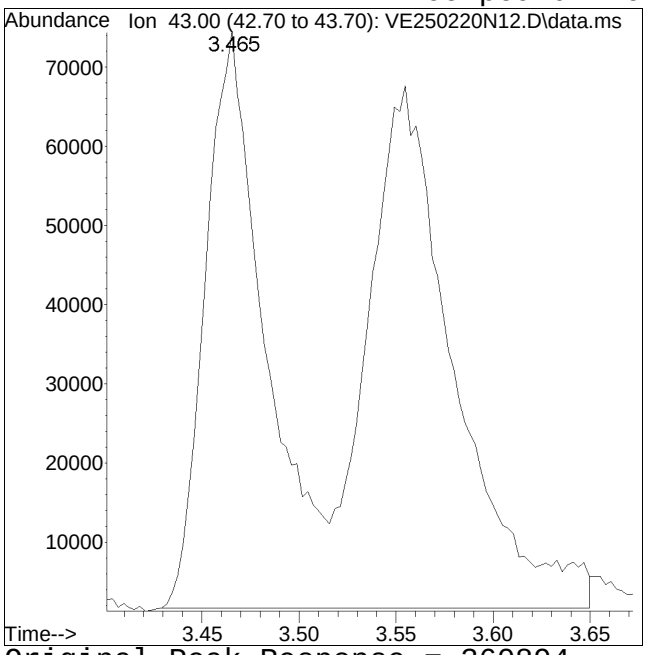


Manual Integration Report

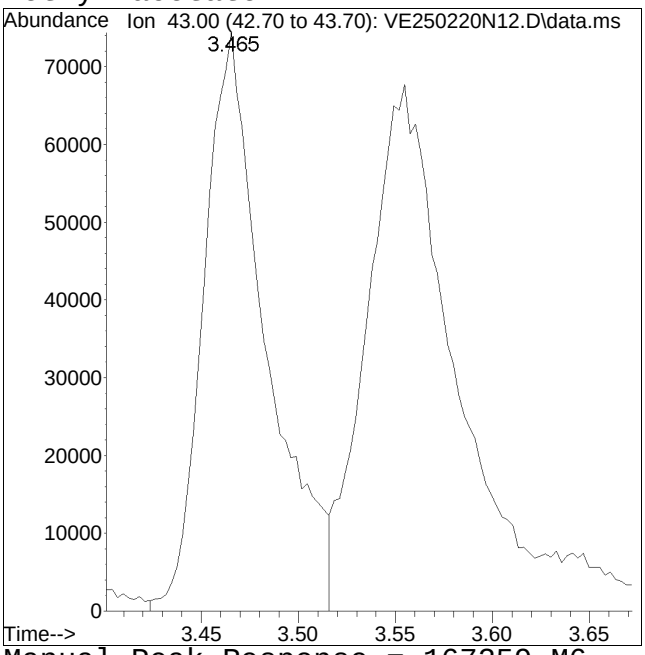
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N12.D
Date Inj'd : 2/21/2025 2:58 am
Sample : I8260STD80PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 360894



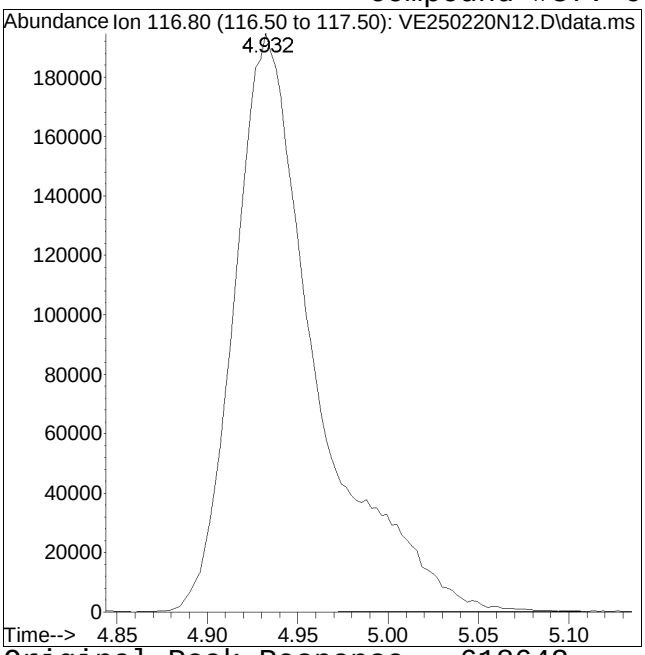
Manual Peak Response = 167259 M6

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

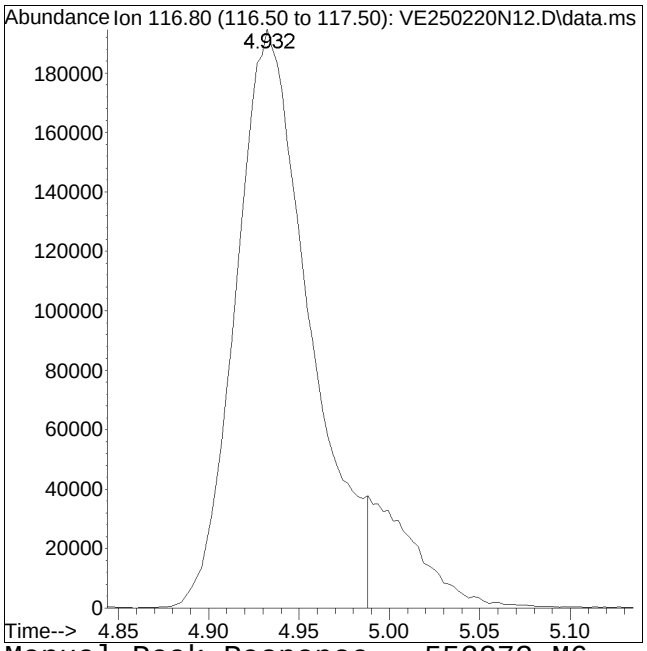
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N12.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:58 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 618642



Manual Peak Response = 552273 M6

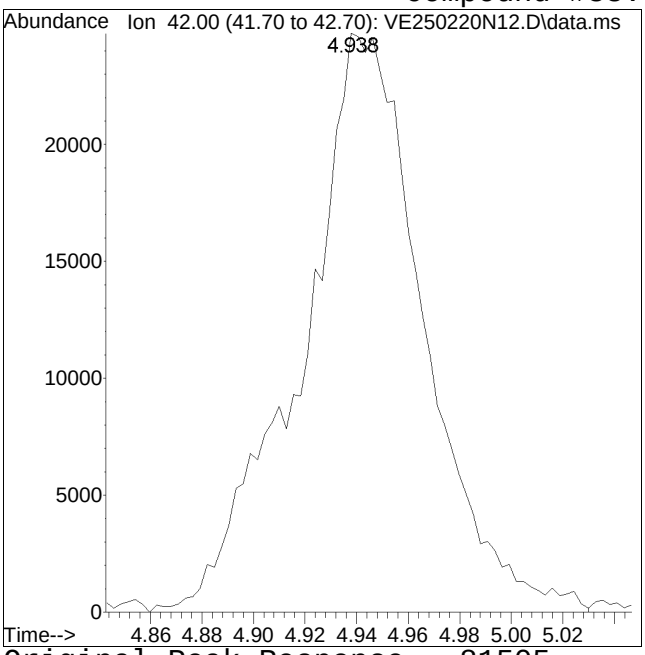
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

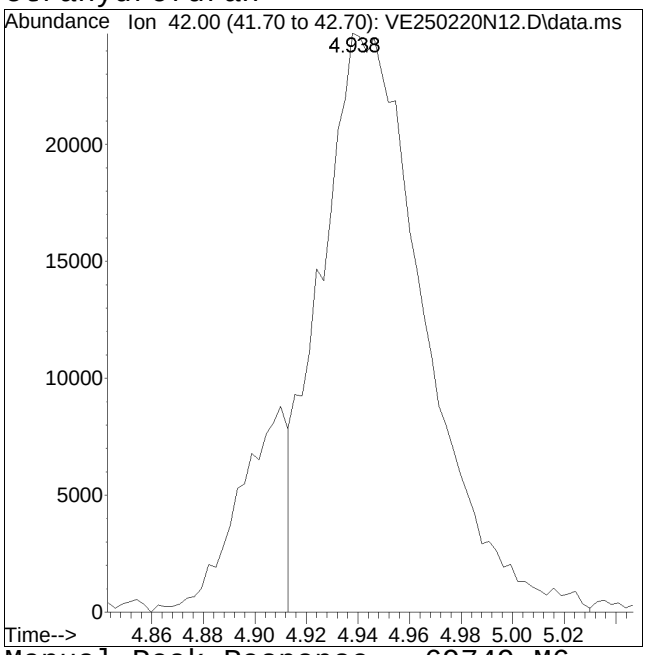
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N12.D
Date Inj'd : 2/21/2025 2:58 am
Sample : I8260STD80PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 81505



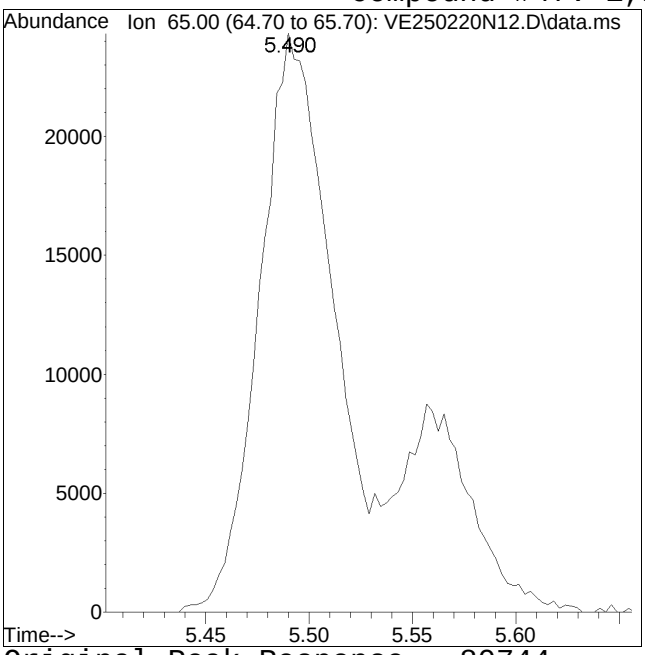
Manual Peak Response = 69749 M6

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

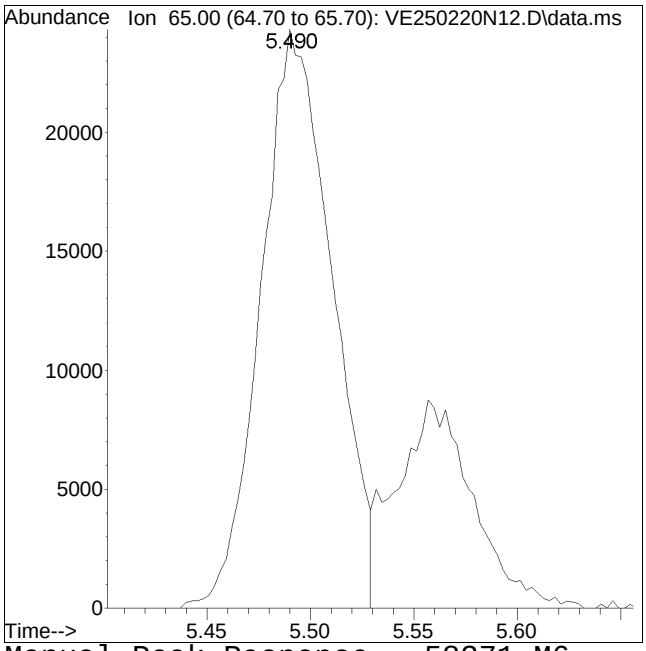
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N12.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:58 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 2/24/2025 7:12 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 80744



Manual Peak Response = 58371 M6

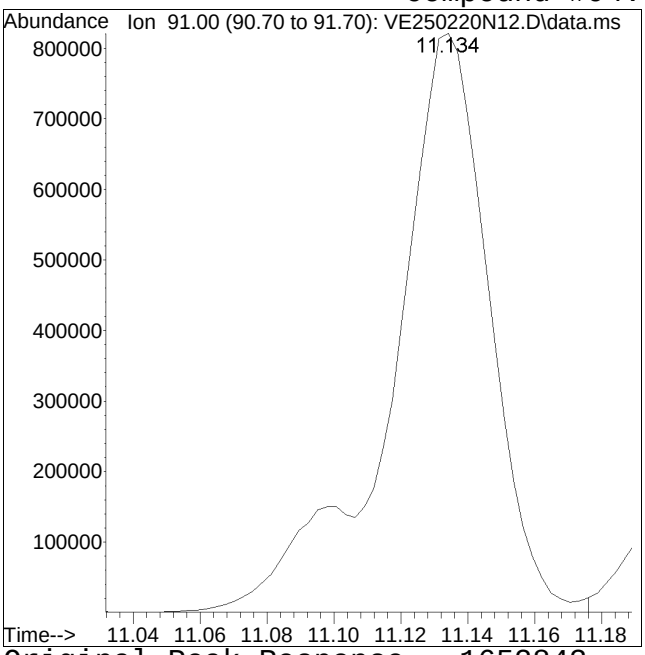
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

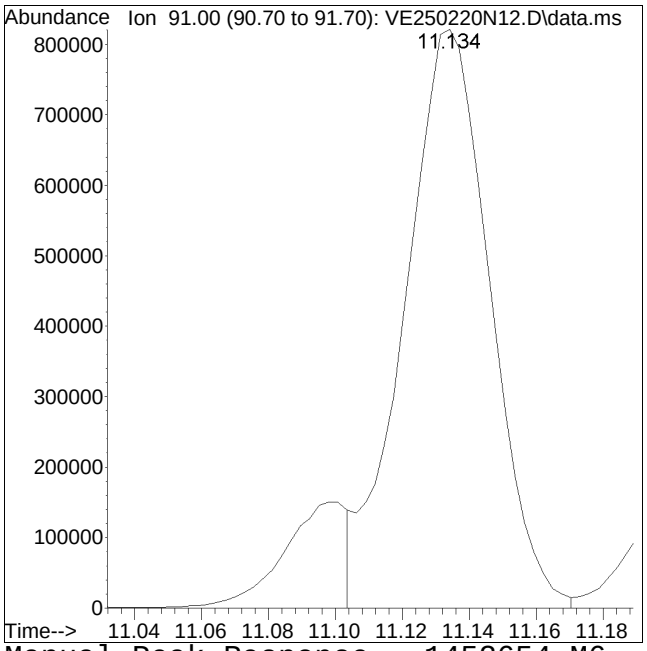
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N12.D
Date Inj'd : 2/21/2025 2:58 am
Sample : I8260STD80PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 1652843



Manual Peak Response = 1452654 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	233074	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 120.33%		
63) Chlorobenzene-d5	9.285	117	170200	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 113.56%		
84) 1,4-Dichlorobenzene-d4	12.035	152	102578	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 130.31%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.980	113	57619	9.058 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.58%		
47) 1,2-Dichloroethane-d4	5.490	65	64141M6	9.526 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.26%		
64) Toluene-d8	7.450	98	216066	9.595 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.95%		
88) 4-Bromofluorobenzene	10.805	95	78096	9.513 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.13%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	710401	118.463 ug/L	100
3) Chloromethane	1.700	50	595893	110.223 ug/L	100
4) Vinyl chloride	1.770	62	814003	115.946 ug/L	100
5) Bromomethane	2.063	94	733108	118.299 ug/L	97
6) Chloroethane	2.177	64	618287	115.024 ug/L	99
7) Trichlorofluoromethane	2.308	101	1413780	116.806 ug/L	100
8) Ethyl ether	2.587	74	432576	119.956 ug/L	98
10) 1,1-Dichloroethene	2.774	96	757809	115.749 ug/L	98
11) Carbon disulfide	2.802	76	2087312	113.113 ug/L	99
12) Freon-113	2.810	101	678582	116.222 ug/L	99
13) Iodomethane	2.908	142	765139	120.064 ug/L	99
14) Acrolein	3.081	56	63956	122.380 ug/L	92
15) Methylene chloride	3.312	84	611045	111.335 ug/L	97
17) Acetone	3.345	43	100477	107.754 ug/L	100
18) trans-1,2-Dichloroethene	3.457	96	590992	115.123 ug/L	99
19) Methyl acetate	3.463	43	261552M6	112.492 ug/L	
21) Methyl tert-butyl ether	3.552	73	1542139	127.394 ug/L #	96
22) tert-Butyl alcohol	3.647	59	138141	626.803 ug/L #	100
24) Diisopropyl ether	3.906	45	1664719	125.044 ug/L	99
25) 1,1-Dichloroethane	4.032	63	1057248	111.443 ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.084	117	452409	119.196	ug/L		99
27) Acrylonitrile	4.071	53	133281	112.145	ug/L		97
28) Ethyl tert-butyl ether	4.249	59	1686401	130.595	ug/L		97
29) Vinyl acetate	4.257	43	1241093	131.634	ug/L		99
30) cis-1,2-Dichloroethene	4.539	96	680570	113.754	ug/L		99
31) 2,2-Dichloropropane	4.637	77	900142	114.440	ug/L	#	79
33) Bromochloromethane	4.726	128	309639	113.447	ug/L		95
34) Cyclohexane	4.734	56	1059768	120.141	ug/L		96
35) Chloroform	4.801	83	1040009	110.681	ug/L		98
36) Ethyl acetate	4.907	43	381396	123.237	ug/L		99
37) Carbon tetrachloride	4.932	117	850157M6	122.265	ug/L		
38) Tetrahydrofuran	4.943	42	110151M6	112.807	ug/L		
40) 1,1,1-Trichloroethane	4.996	97	910512	117.812	ug/L		99
42) 2-Butanone	5.086	43	152835	117.629	ug/L		94
43) 1,1-Dichloropropene	5.116	75	770231	122.659	ug/L		99
45) Benzene	5.356	78	2521671	121.898	ug/L		99
46) tert-Amyl methyl ether	5.470	73	1539783	126.023	ug/L		98
48) 1,2-Dichloroethane	5.560	62	750307	114.840	ug/L		99
51) Methyl cyclohexane	5.942	83	1197746	130.355	ug/L		99
52) Trichloroethene	5.950	95	661129	131.697	ug/L		100
54) Dibromomethane	6.382	93	362952	115.560	ug/L		99
55) 1,2-Dichloropropane	6.486	63	606009	124.494	ug/L		99
57) 2-Chloroethyl vinyl ether	7.183	63	275681	135.344	ug/L		98
58) Bromodichloromethane	6.561	83	849514	121.439	ug/L		99
61) 1,4-Dioxane	6.767	88	29860	1190.629	ug/L		98
62) cis-1,3-Dichloropropene	7.247	75	1033627	136.490	ug/L		99
65) Toluene	7.509	92	1538314	120.850	ug/L		98
66) 4-Methyl-2-pentanone	7.938	58	133374	122.859	ug/L		98
67) Tetrachloroethene	7.952	166	613402	125.265	ug/L		99
69) trans-1,3-Dichloropropene	7.991	75	858428	139.469	ug/L		99
71) Ethyl methacrylate	8.181	69	565972	130.204	ug/L		93
72) 1,1,2-Trichloroethane	8.175	83	414481	129.680	ug/L		98
73) Chlorodibromomethane	8.387	129	612351	137.655	ug/L		98
74) 1,3-Dichloropropane	8.493	76	845842	128.021	ug/L		100
75) 1,2-Dibromoethane	8.652	107	478575	130.807	ug/L		97
77) 2-Hexanone	8.940	43	221015	127.813	ug/L		97
78) Chlorobenzene	9.305	112	1763843	121.810	ug/L		99
79) Ethylbenzene	9.347	91	3175049	124.597	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.391	131	597979	132.468	ug/L		100
81) p/m Xylene	9.533	106	2715770	260.497	ug/L		99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.080	106	2770775	267.001	ug/L	100
83) Styrene	10.150	104	4828195	273.140	ug/L	100
85) Bromoform	10.172	173	400440	144.078	ug/L	99
87) Isopropylbenzene	10.473	105	3560457	125.833	ug/L	100
89) Bromobenzene	10.917	156	765326	121.256	ug/L	100
90) n-Propylbenzene	10.970	91	4294928	125.934	ug/L	100
91) 1,4-Dichlorobutane	10.984	55	724559	116.303	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.062	83	585515	121.833	ug/L	99
93) 4-Ethyltoluene	11.098	105	3496879	124.031	ug/L	99
94) 2-Chlorotoluene	11.134	91	2379792M6	122.952	ug/L	
95) 1,3,5-Trimethylbenzene	11.201	105	3178355	126.486	ug/L	99
96) 1,2,3-Trichloropropane	11.198	75	494176	121.536	ug/L	96
97) trans-1,4-Dichloro-2-b...	11.254	53	168300	121.683	ug/L	89
98) 4-Chlorotoluene	11.324	91	2464651	122.717	ug/L	98
99) tert-Butylbenzene	11.544	119	2654715	126.763	ug/L	99
102) 1,2,4-Trimethylbenzene	11.622	105	3167761	128.772	ug/L	97
103) sec-Butylbenzene	11.736	105	4034970	127.073	ug/L	100
104) p-Isopropyltoluene	11.895	119	3558274	127.808	ug/L	100
105) 1,3-Dichlorobenzene	11.957	146	1676811	122.080	ug/L	99
106) 1,4-Dichlorobenzene	12.052	146	1668222	122.068	ug/L	99
107) p-Diethylbenzene	12.275	119	2172827	131.666	ug/L	99
108) n-Butylbenzene	12.330	91	3046126	127.553	ug/L	99
109) 1,2-Dichlorobenzene	12.478	146	1551901	120.277	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.072	119	3601242	138.333	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.262	155	95361	142.386	ug/L	94
112) 1,3,5-Trichlorobenzene	13.295	180	1222670	129.381	ug/L	99
113) Hexachlorobutadiene	13.873	225	315326	126.690	ug/L	99
114) 1,2,4-Trichlorobenzene	13.895	180	1018418	125.175	ug/L	99
115) Naphthalene	14.188	128	2406468	124.310	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	919005	123.194	ug/L	98

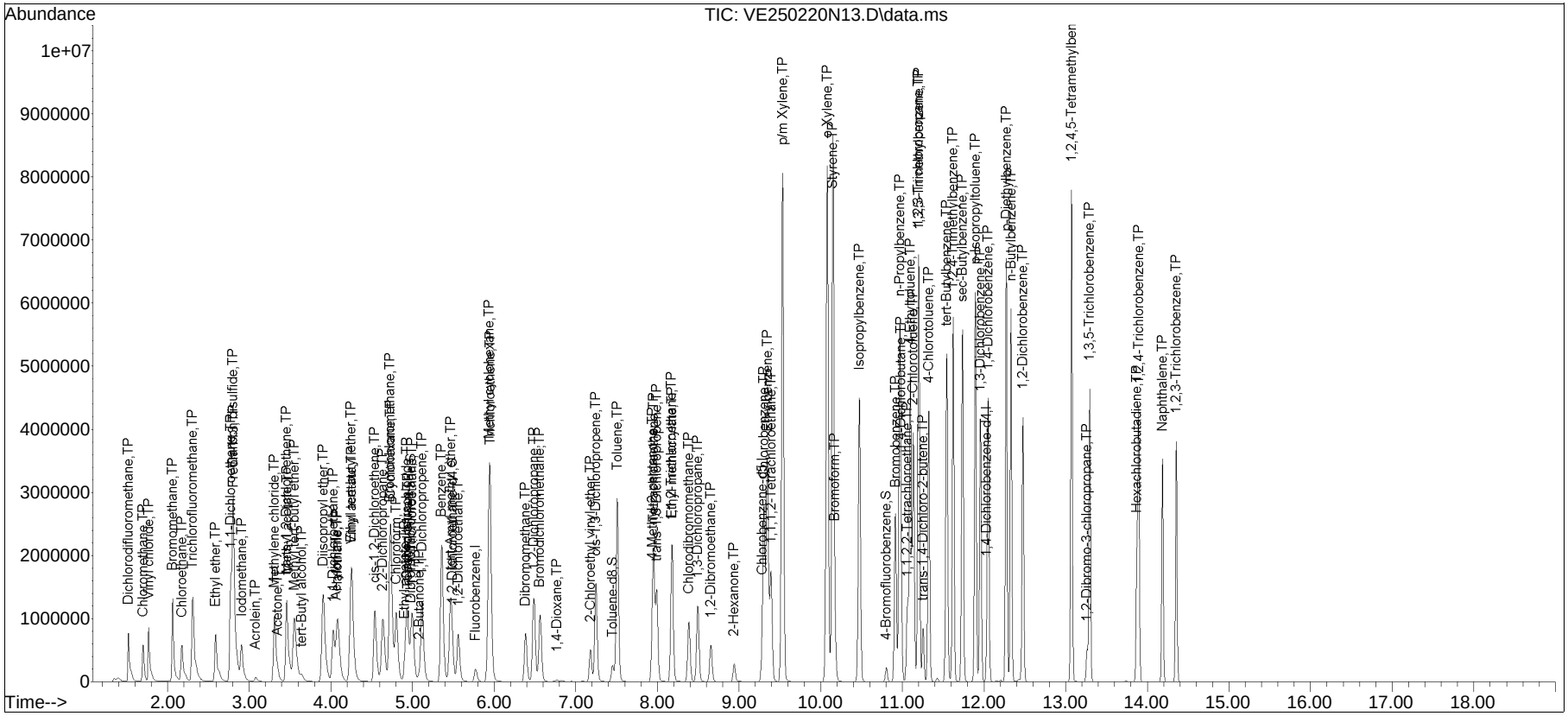
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

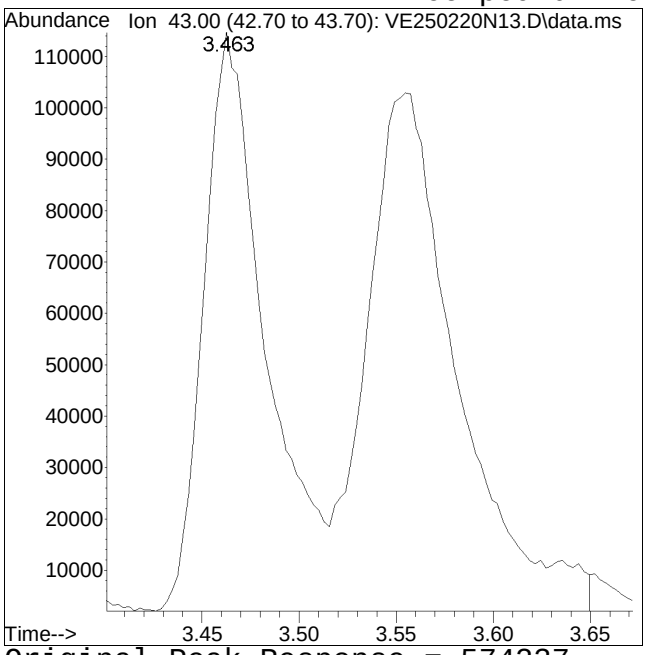


Manual Integration Report

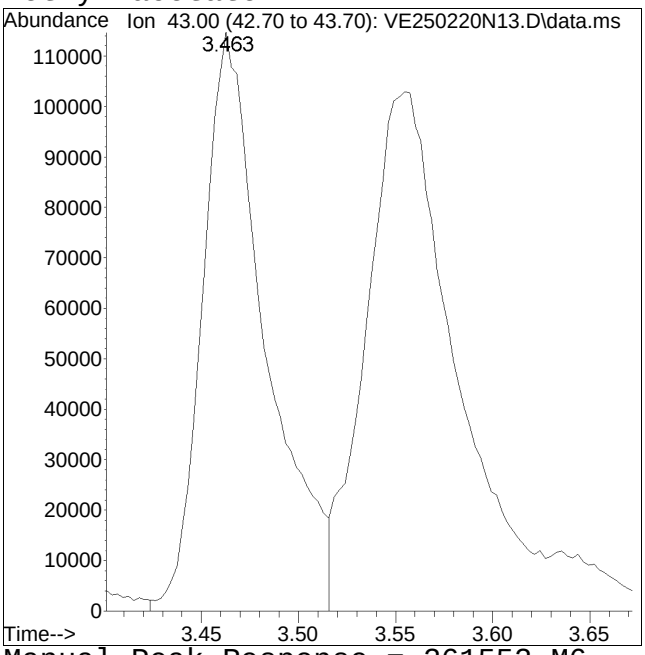
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N13.D
Date Inj'd : 2/21/2025 3:22 am
Sample : I8260STD120PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 574237



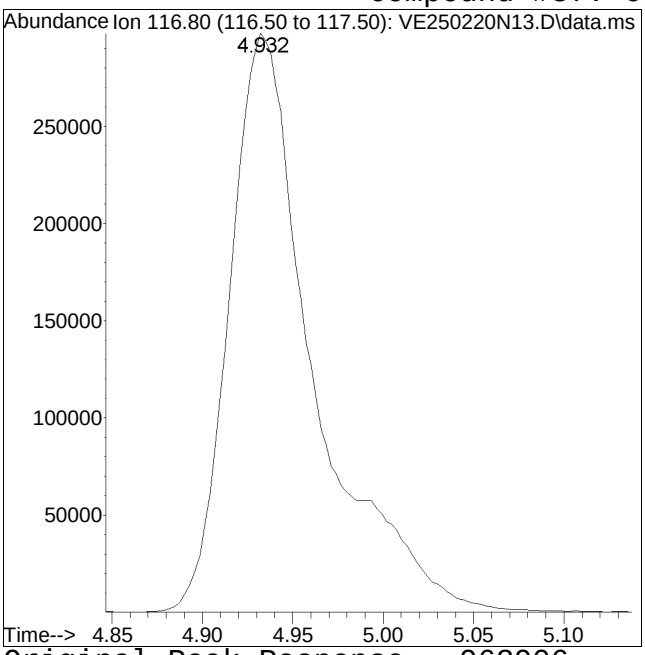
Manual Peak Response = 261552 M6

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

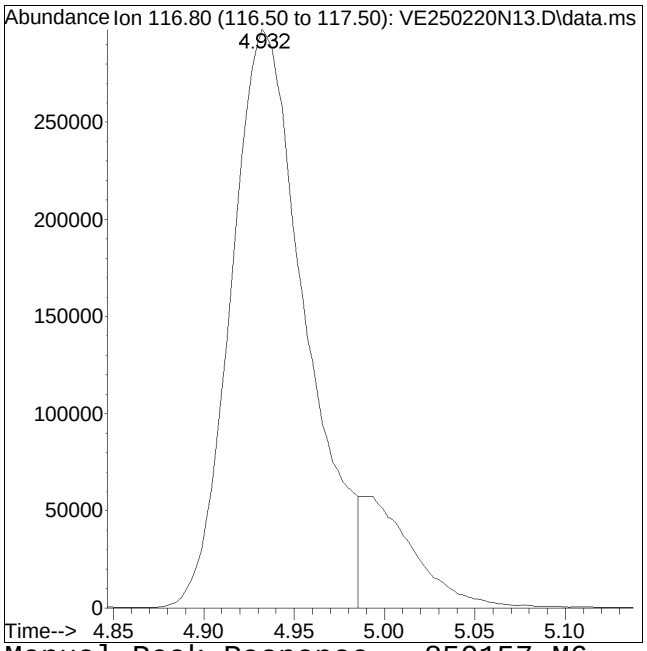
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 963906



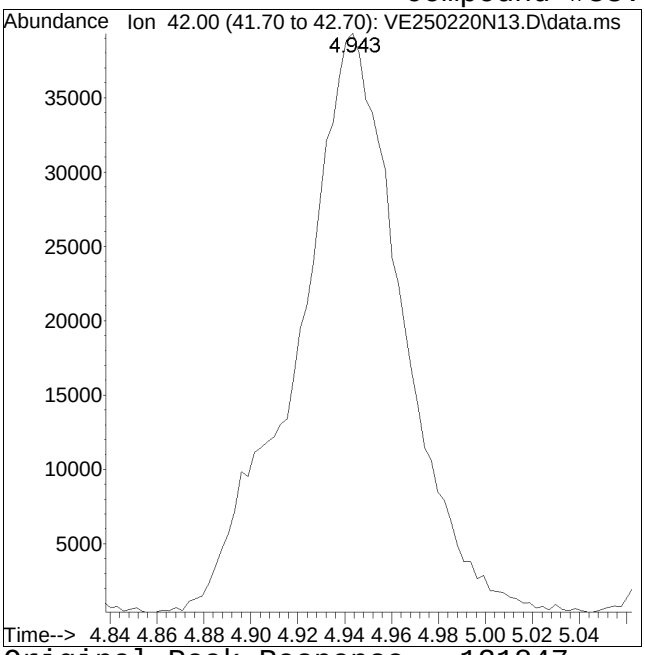
Manual Peak Response = 850157 M6

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

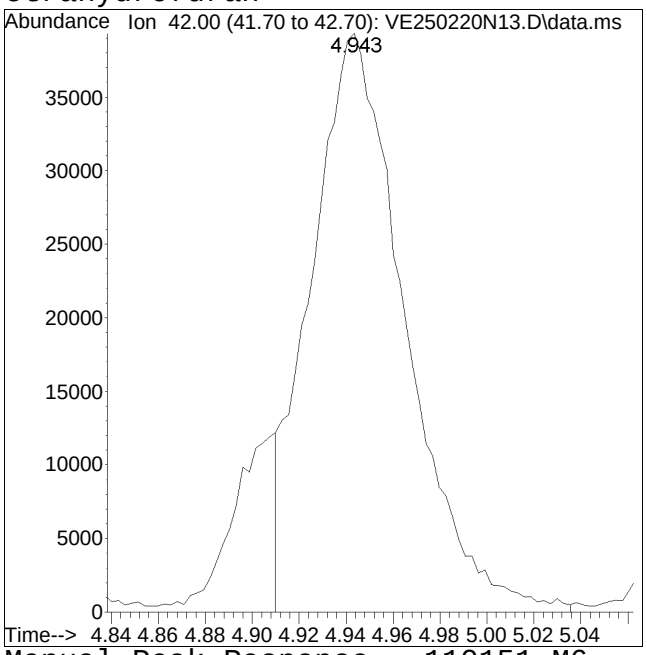
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 121847



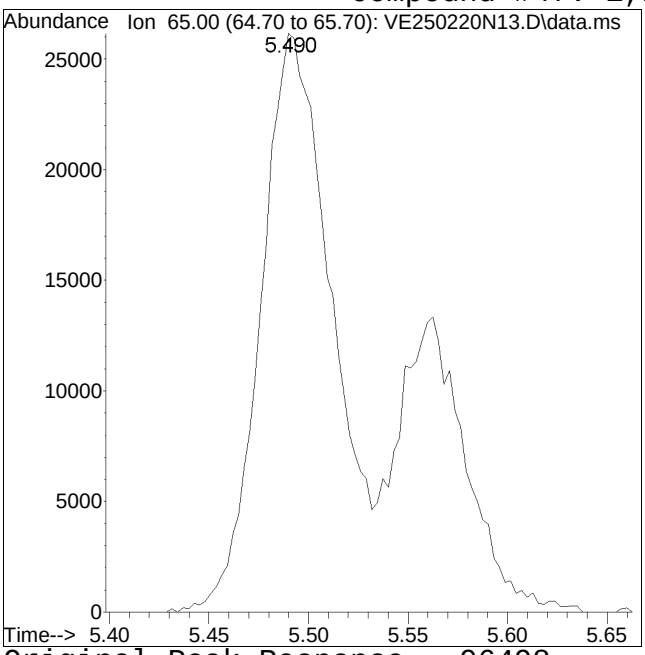
Manual Peak Response = 110151 M6

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

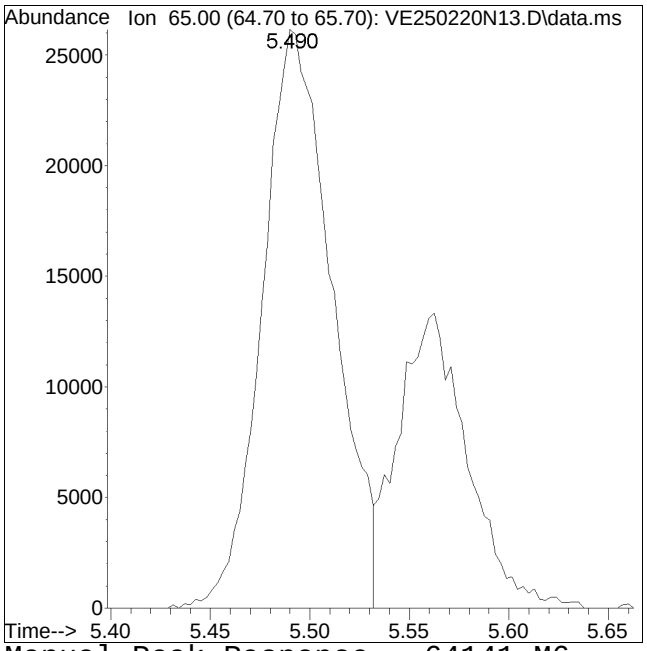
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 96498



Manual Peak Response = 64141 M6

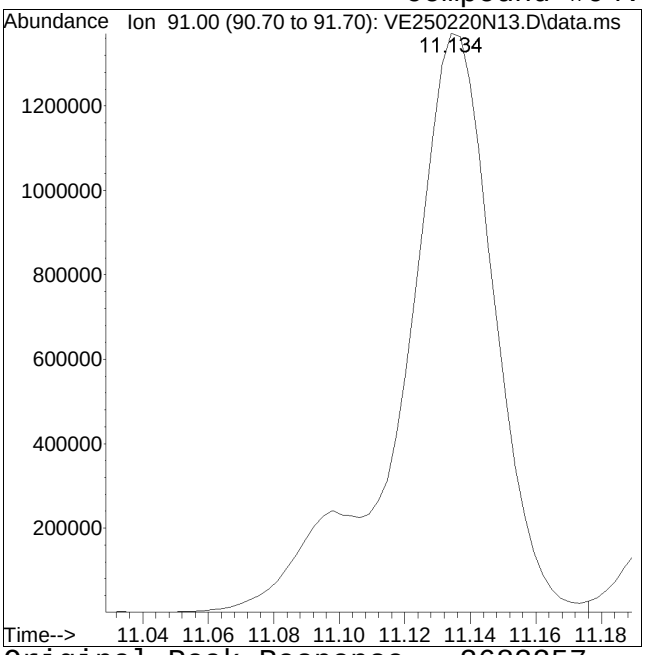
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

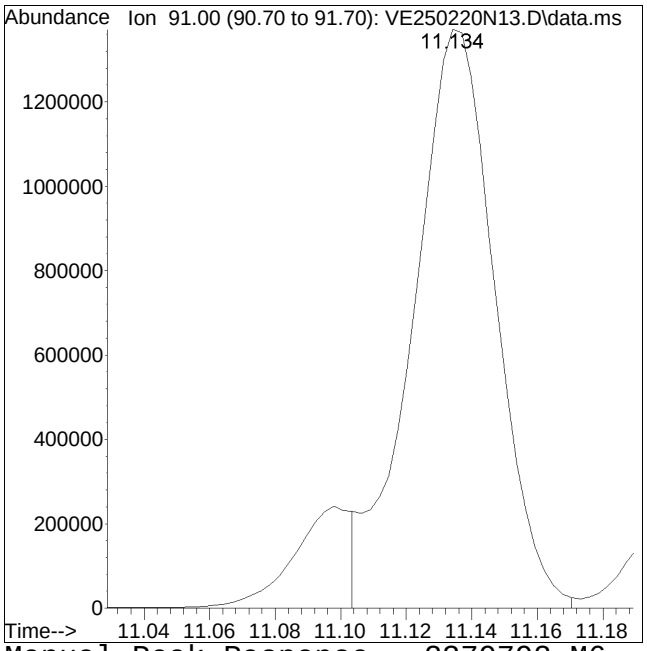
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N13.D
Date Inj'd : 2/21/2025 3:22 am
Sample : I8260STD120PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 2683257



Manual Peak Response = 2379792 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.774	96	248410	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 128.25%		
63) Chlorobenzene-d5	9.285	117	185009	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 123.44%		
84) 1,4-Dichlorobenzene-d4	12.038	152	118126	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 150.06%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.974	113	61614	9.088 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.88%		
47) 1,2-Dichloroethane-d4	5.490	65	68985M6	9.613 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.13%		
64) Toluene-d8	7.450	98	226781	9.265 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.65%		
88) 4-Bromofluorobenzene	10.805	95	84976	8.989 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.89%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	1227960	192.128 ug/L	99
3) Chloromethane	1.700	50	1041531	180.760 ug/L	99
4) Vinyl chloride	1.767	62	1404392	187.691 ug/L	100
5) Bromomethane	2.063	94	1306348	197.786 ug/L	97
6) Chloroethane	2.174	64	1082140	188.889 ug/L	99
7) Trichlorofluoromethane	2.311	101	2433493	188.642 ug/L	100
8) Ethyl ether	2.590	74	752920	195.899 ug/L	97
10) 1,1-Dichloroethene	2.774	96	1354794	194.157 ug/L	97
11) Carbon disulfide	2.802	76	3772831	191.831 ug/L	100
12) Freon-113	2.807	101	1242718	199.702 ug/L	98
13) Iodomethane	2.908	142	1387070	204.219 ug/L	99
14) Acrolein	3.081	56	115321	207.044 ug/L	90
15) Methylene chloride	3.309	84	1093835	186.997 ug/L	96
17) Acetone	3.346	43	180384	181.505 ug/L	98
18) trans-1,2-Dichloroethene	3.460	96	1057105	193.208 ug/L	99
19) Methyl acetate	3.463	43	466916M6	188.420 ug/L	
21) Methyl tert-butyl ether	3.555	73	2759201	213.862 ug/L #	96
22) tert-Butyl alcohol	3.644	59	234905	1000.058 ug/L #	100
24) Diisopropyl ether	3.906	45	3025857	213.254 ug/L	99
25) 1,1-Dichloroethane	4.029	63	1885602	186.489 ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.085	117	812161	200.769	ug/L		99
27) Acrylonitrile	4.068	53	246120	194.304	ug/L		100
28) Ethyl tert-butyl ether	4.252	59	3131327	227.520	ug/L		98
29) Vinyl acetate	4.257	43	2142953	213.256	ug/L		99
30) cis-1,2-Dichloroethene	4.542	96	1213455	190.302	ug/L		98
31) 2,2-Dichloropropane	4.639	77	1596543	190.446	ug/L	#	78
33) Bromochloromethane	4.729	128	569941	195.926	ug/L		92
34) Cyclohexane	4.734	56	1867649	198.655	ug/L		94
35) Chloroform	4.804	83	1889796	188.702	ug/L		98
36) Ethyl acetate	4.904	43	672231	203.802	ug/L		98
37) Carbon tetrachloride	4.932	117	1572812M6	212.228	ug/L		
38) Tetrahydrofuran	4.943	42	201266M6	193.395	ug/L		
40) 1,1,1-Trichloroethane	4.996	97	1636061	198.622	ug/L		99
42) 2-Butanone	5.083	43	276043	199.339	ug/L		93
43) 1,1-Dichloropropene	5.116	75	1378335	205.949	ug/L		99
45) Benzene	5.359	78	4619580	209.525	ug/L		99
46) tert-Amyl methyl ether	5.468	73	2868248	220.258	ug/L		98
48) 1,2-Dichloroethane	5.562	62	1342751	192.830	ug/L		99
51) Methyl cyclohexane	5.939	83	2210868	225.762	ug/L		99
52) Trichloroethene	5.950	95	1270565	237.472	ug/L		100
54) Dibromomethane	6.382	93	659311	196.957	ug/L		99
55) 1,2-Dichloropropane	6.486	63	1081170	208.396	ug/L		99
57) 2-Chloroethyl vinyl ether	7.183	63	503837	232.084	ug/L		99
58) Bromodichloromethane	6.564	83	1533508	205.683	ug/L		100
61) 1,4-Dioxane	6.770	88	46855	1752.941	ug/L		98
62) cis-1,3-Dichloropropene	7.247	75	1876020	232.433	ug/L		98
65) Toluene	7.509	92	2861175	206.783	ug/L		99
66) 4-Methyl-2-pentanone	7.944	58	238661	202.248	ug/L		98
67) Tetrachloroethene	7.952	166	1153858	216.773	ug/L		99
69) trans-1,3-Dichloropropene	7.994	75	1568200	234.392	ug/L		94
71) Ethyl methacrylate	8.181	69	1027424	217.442	ug/L		91
72) 1,1,2-Trichloroethane	8.175	83	770546	221.786	ug/L		97
73) Chlorodibromomethane	8.387	129	1127653	233.203	ug/L		98
74) 1,3-Dichloropropane	8.496	76	1516552	211.162	ug/L		100
75) 1,2-Dibromoethane	8.655	107	870096	218.783	ug/L		97
77) 2-Hexanone	8.942	43	400929	213.298	ug/L		98
78) Chlorobenzene	9.305	112	3284926	208.696	ug/L		100
79) Ethylbenzene	9.347	91	5919612	213.707	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.394	131	1130981	230.488	ug/L		100
81) p/m Xylene	9.536	106	5513329	486.509	ug/L		96

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.083	106	5535151	490.691	ug/L	97
83) Styrene	10.153	104	9633992	501.388	ug/L	99
85) Bromoform	10.172	173	800839	250.216	ug/L	98
87) Isopropylbenzene	10.476	105	6745814	207.029	ug/L	100
89) Bromobenzene	10.917	156	1452723	199.871	ug/L	100
90) n-Propylbenzene	10.972	91	8130277	207.014	ug/L	99
91) 1,4-Dichlorobutane	10.984	55	1345482	187.544	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.064	83	1068121	192.999	ug/L	95
93) 4-Ethyltoluene	11.101	105	6629087	204.180	ug/L	99
94) 2-Chlorotoluene	11.140	91	4430028M6	198.753	ug/L	
95) 1,3,5-Trimethylbenzene	11.201	105	6214043	214.745	ug/L	100
96) 1,2,3-Trichloropropane	11.201	75	954951	203.946	ug/L	94
97) trans-1,4-Dichloro-2-b...	11.257	53	301743	189.448	ug/L	86
98) 4-Chlorotoluene	11.327	91	4722290	204.179	ug/L	98
99) tert-Butylbenzene	11.544	119	5126801	212.583	ug/L	98
102) 1,2,4-Trimethylbenzene	11.625	105	6102132	215.407	ug/L	98
103) sec-Butylbenzene	11.739	105	7719065	211.098	ug/L	99
104) p-Isopropyltoluene	11.898	119	7060654	220.228	ug/L	99
105) 1,3-Dichlorobenzene	11.960	146	3288996	207.938	ug/L	99
106) 1,4-Dichlorobenzene	12.054	146	3339314	212.185	ug/L	99
107) p-Diethylbenzene	12.275	119	4371819	230.049	ug/L	98
108) n-Butylbenzene	12.333	91	5946160	216.215	ug/L	99
109) 1,2-Dichlorobenzene	12.478	146	3100217	208.650	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.072	119	6913574	230.614	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.265	155	173789	225.335	ug/L	94
112) 1,3,5-Trichlorobenzene	13.298	180	2383995	219.066	ug/L	99
113) Hexachlorobutadiene	13.873	225	603270	210.476	ug/L	100
114) 1,2,4-Trichlorobenzene	13.895	180	2000262	213.494	ug/L	99
115) Naphthalene	14.185	128	4477732	200.860	ug/L	100
116) 1,2,3-Trichlorobenzene	14.358	180	1781004	207.322	ug/L	98

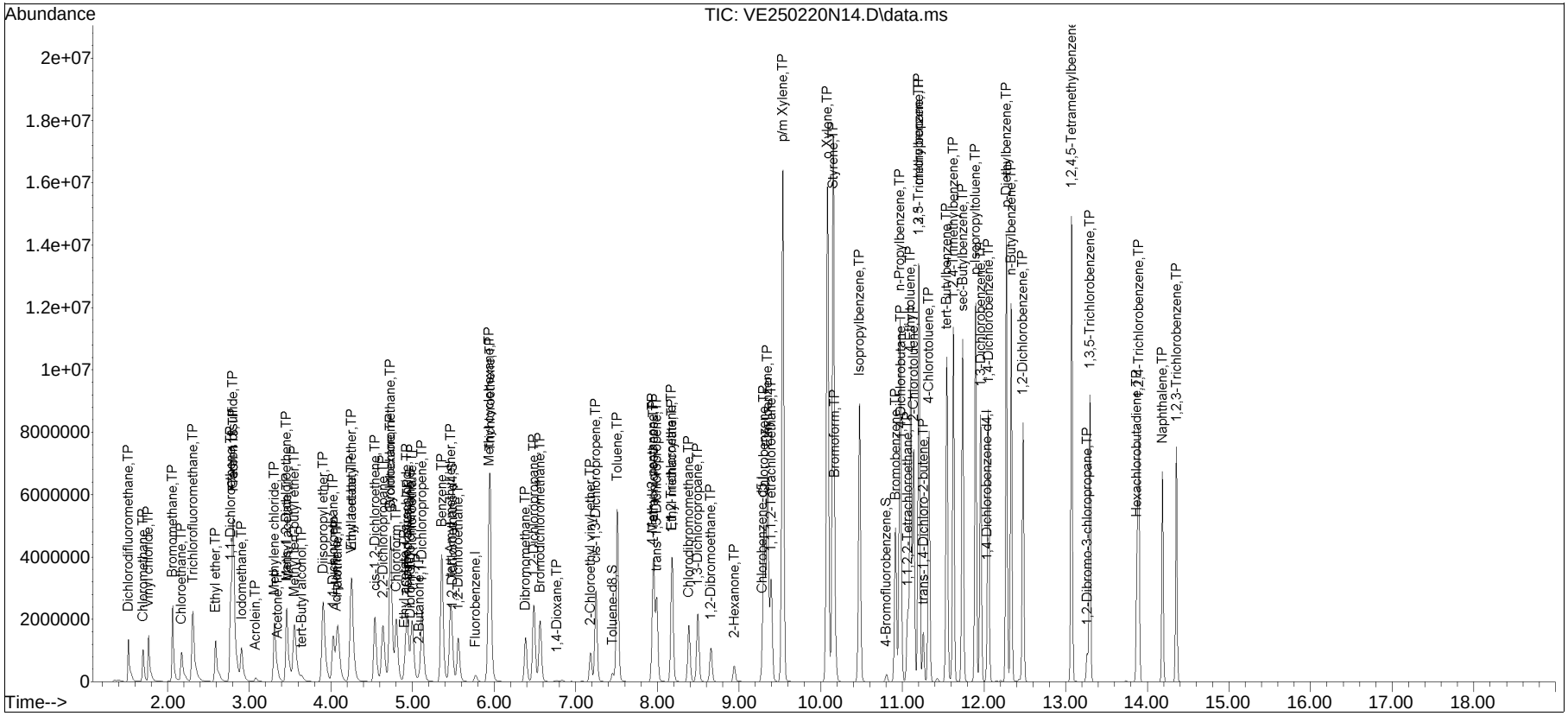
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

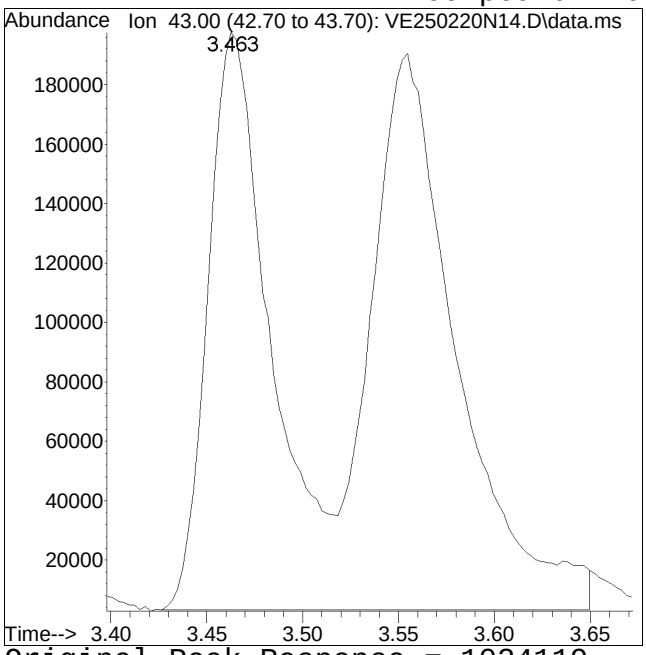


Manual Integration Report

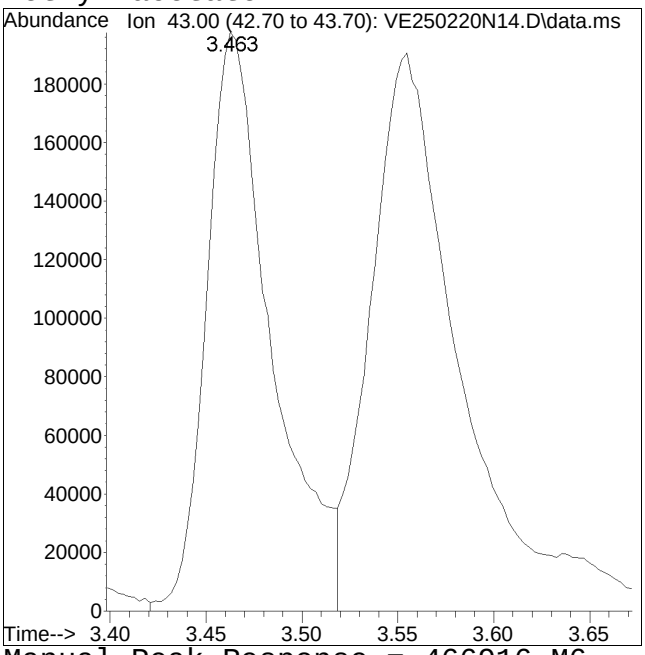
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N14.D
Date Inj'd : 2/21/2025 3:46 am
Sample : I8260STD200PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:13 am

Compound #19: Methyl acetate



Original Peak Response = 1024119



Manual Peak Response = 466916 M6

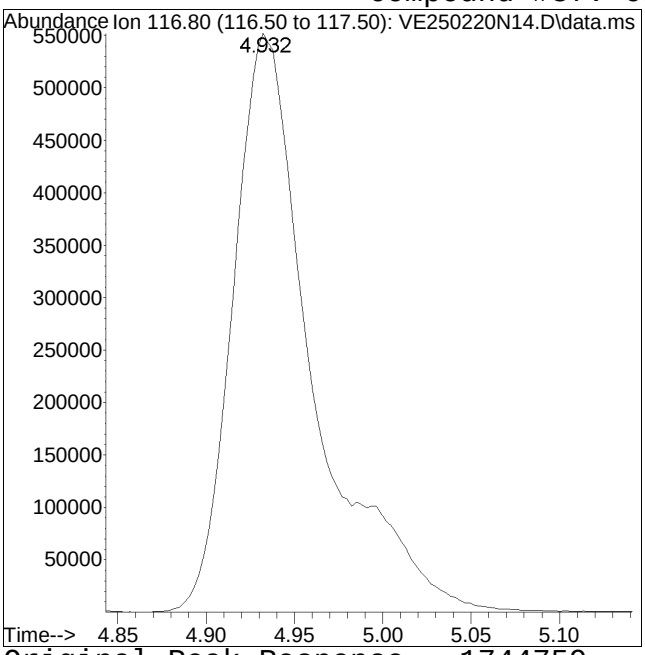
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

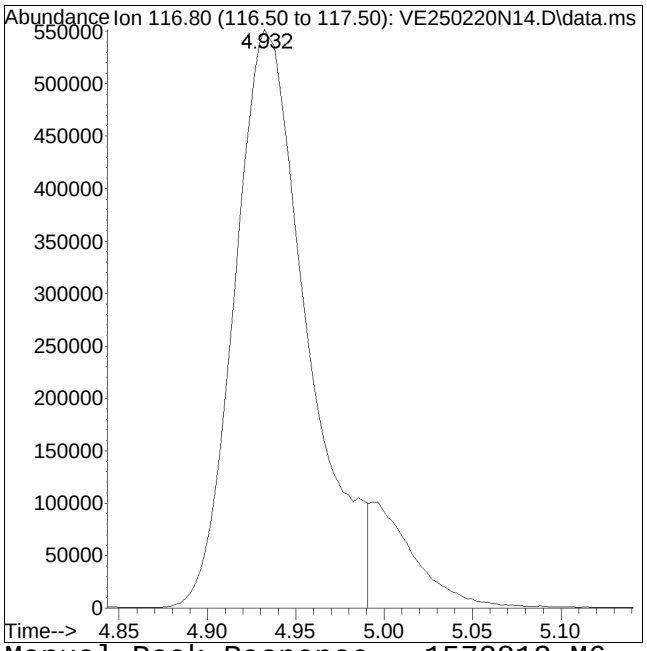
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N14.D
Date Inj'd : 2/21/2025 3:46 am
Sample : I8260STD200PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:13 am

Compound #37: Carbon tetrachloride



Original Peak Response = 1744759



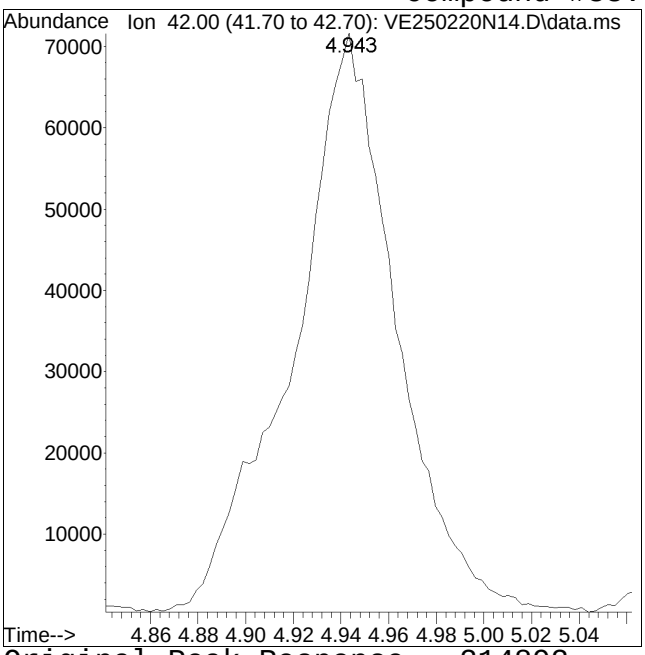
Manual Peak Response = 1572812 M6

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

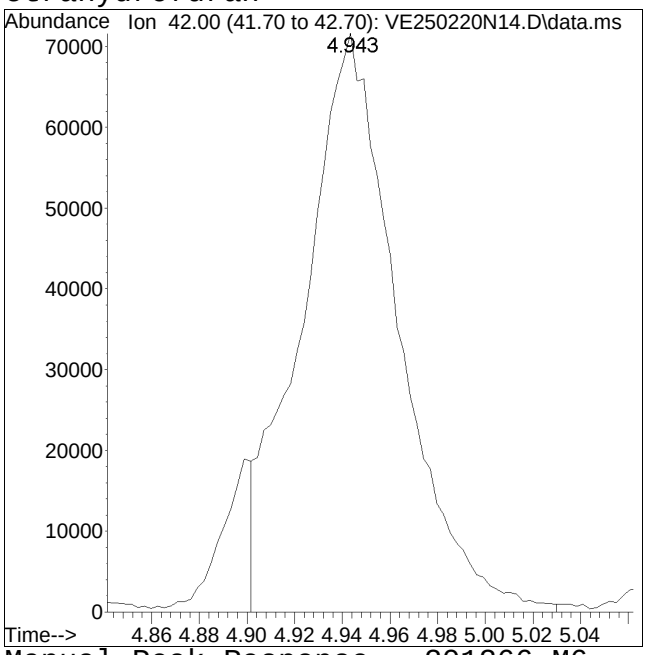
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N14.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:46 am Instrument : Elaine
Sample : I8260STD200PPB Quant Date : 2/24/2025 7:13 am

Compound #38: Tetrahydrofuran



Original Peak Response = 214892



Manual Peak Response = 201266 M6

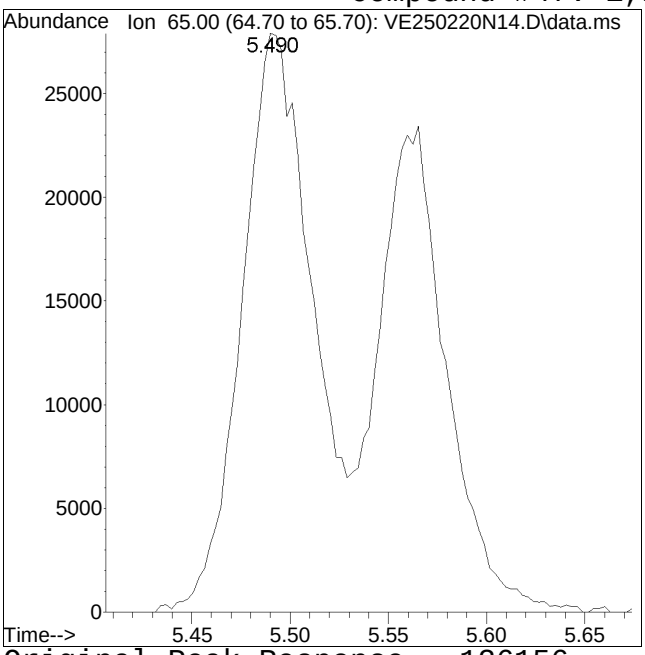
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

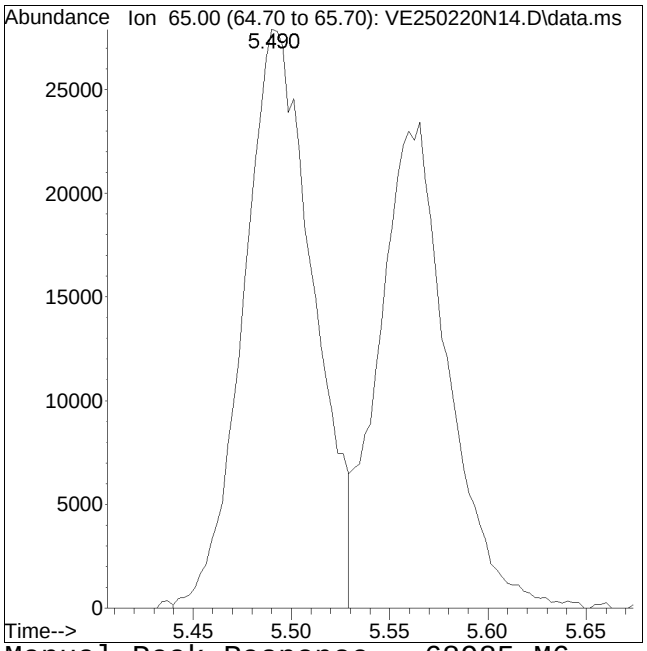
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N14.D
Date Inj'd : 2/21/2025 3:46 am
Sample : I8260STD200PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:13 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 126156



Manual Peak Response = 68985 M6

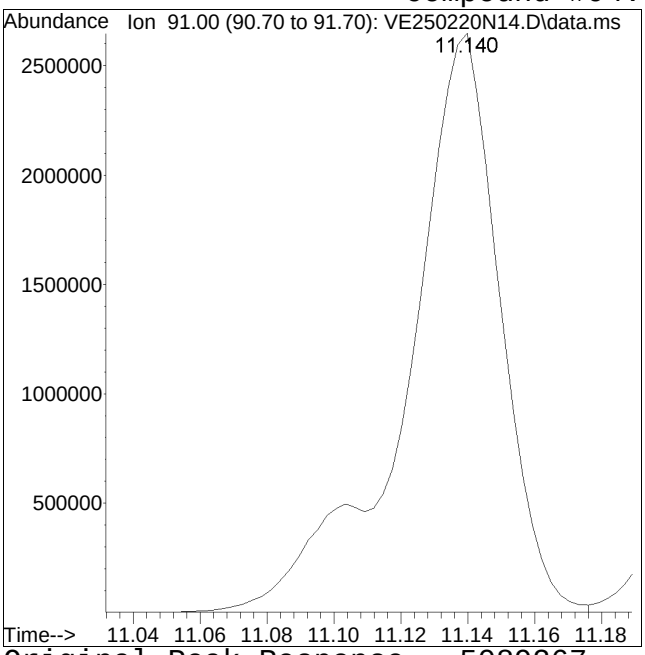
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

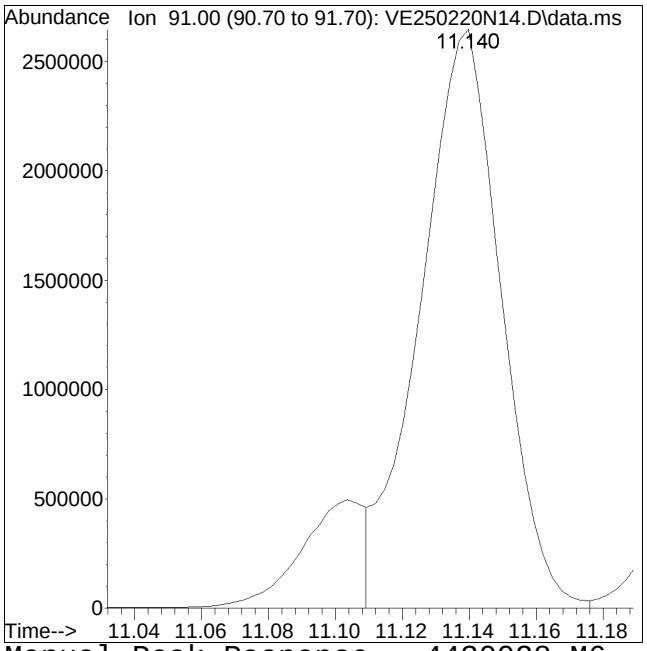
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N14.D
Date Inj'd : 2/21/2025 3:46 am
Sample : I8260STD200PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:13 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 5089267



Manual Peak Response = 4430028 M6

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

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2	TP	Dichlorodifluoromethane	0.257	0.235	8.6	78	0.00
3	TP	Chloromethane	0.232	0.250	-7.8	95	0.00
4	TP	Vinyl chloride	0.301	0.321	-6.6	96	0.00
5	TP	Bromomethane	0.266	0.285	-7.1	98	0.00
6	TP	Chloroethane	0.231	0.255	-10.4	97	0.00
7	TP	Trichlorofluoromethane	0.519	0.576	-11.0	98	0.00
8	TP	Ethyl ether	0.155	0.180	-16.1	105	0.00
10	TP	1,1-Dichloroethene	0.281	0.279	0.7	90	0.00
11	TP	Carbon disulfide	0.792	0.568	28.3#	67	0.00
12	TP	Freon-113	0.270	0.235	13.0	82	0.00
13	TP	Iodomethane	0.273	0.285	-4.4	97	0.00
14	TP	Acrolein	0.022	0.020	9.1	94	0.00
15	TP	Methylene chloride	0.235	0.244	-3.8	98	0.00
17	TP	Acetone	0.040	0.047	-17.5	122	0.00
18	TP	trans-1,2-Dichloroethene	0.220	0.231	-5.0	96	0.00
19	TP	Methyl acetate	0.100	0.109	-9.0	103	0.00
21	TP	Methyl tert-butyl ether	0.519	0.477	8.1	92	0.00
22	TP	tert-Butyl alcohol	0.00946	0.00929#	1.8	92	0.00
24	TP	Diisopropyl ether	0.571	0.539	5.6	92	0.00
25	TP	1,1-Dichloroethane	0.407	0.435	-6.9	98	0.00
26	TP	Halothane	0.163	0.181	-11.0	99	0.00
27	TP	Acrylonitrile	0.051	0.057	-11.8	103	0.00
28	TP	Ethyl tert-butyl ether	0.554	0.519	6.3	95	0.00
29	TP	Vinyl acetate	0.405	0.295	27.2#	77	0.00
30	TP	cis-1,2-Dichloroethene	0.257	0.265	-3.1	95	0.00
31	TP	2,2-Dichloropropane	0.337	0.332	1.5	92	0.00
33	TP	Bromochloromethane	0.117	0.117	0.0	92	0.00
34	TP	Cyclohexane	0.378	0.375	0.8	87	0.00
35	TP	Chloroform	0.403	0.430	-6.7	98	0.00
36	TP	Ethyl acetate	0.133	0.128	3.8	98	0.00
37	TP	Carbon tetrachloride	0.298	0.307	-3.0	93	0.00
38	TP	Tetrahydrofuran	0.042	0.045	-7.1	98	-0.01
39	S	Dibromofluoromethane	0.273	0.292	-7.0	104	0.00
40	TP	1,1,1-Trichloroethane	0.332	0.375	-13.0	100	0.00
42	TP	2-Butanone	0.056	0.058	-3.6	104	0.00
43	TP	1,1-Dichloropropene	0.269	0.288	-7.1	101	0.00
45	TP	Benzene	0.888	0.866	2.5	95	0.00
46	TP	tert-Amyl methyl ether	0.524	0.478	8.8	92	0.00

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	S	1,2-Dichloroethane-d4	0.289	0.306	-5.9	102	0.00
48	T	1,2-Dichloroethane	0.280	0.286	-2.1	95	0.00
51	TP	Methyl cyclohexane	0.394	0.374	5.1	90	0.00
52	TP	Trichloroethene	0.215	0.222	-3.3	98	0.00
54	TP	Dibromomethane	0.135	0.134	0.7	94	0.00
55	TP	1,2-Dichloropropane	0.209	0.211	-1.0	94	0.00
57	TP	2-Chloroethyl vinyl ether	0.087	0.088	-1.1	99	0.00
58	TP	Bromodichloromethane	0.300	0.294#	2.0	93	0.00
61	TP	1,4-Dioxane	0.00108	0.00104#	3.7	87	0.00
62	TP	cis-1,3-Dichloropropene	0.325	0.323	0.6	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	S	Toluene-d8	1.323	1.354	-2.3	100	0.00
65	TP	Toluene	0.748	0.769	-2.8	97	0.00
66	TP	4-Methyl-2-pentanone	0.064	0.063	1.6	101	0.00
67	TP	Tetrachloroethene	0.288	0.296	-2.8	98	0.00
69	TP	trans-1,3-Dichloropropene	0.362	0.347	4.1	96	0.00
71	TP	Ethyl methacrylate	0.255	0.275	-7.8	99	0.00
72	TP	1,1,2-Trichloroethane	0.188	0.170#	9.6	91	0.00
73	TP	Chlorodibromomethane	0.261	0.232	11.1	92	0.00
74	TP	1,3-Dichloropropane	0.388	0.358	7.7	90	0.00
75	TP	1,2-Dibromoethane	0.215	0.202	6.0	91	0.00
77	TP	2-Hexanone	0.102	0.099	2.9	92	0.00
78	TP	Chlorobenzene	0.851	0.842	1.1	96	0.00
79	TP	Ethylbenzene	1.497	1.436	4.1	93	0.00
80	TP	1,1,1,2-Tetrachloroethane	0.265	0.235	11.3	91	0.00
81	TP	p/m Xylene	0.613	0.574	6.4	96	0.00
82	TP	o Xylene	0.610	0.558	8.5	95	0.00
83	TP	Styrene	1.039	0.929	10.6	96	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
85	TP	Bromoform	* 10.000	8.447	15.5	94	0.00
87	TP	Isopropylbenzene	2.758	2.385	13.5	84	0.00
88	S	4-Bromofluorobenzene	0.800	0.824	-3.0	100	0.00
89	TP	Bromobenzene	0.615	0.589	4.2	92	0.00
90	TP	n-Propylbenzene	3.325	3.264	1.8	95	0.00
91	TP	1,4-Dichlorobutane	0.607	0.654	-7.7	101	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.469	0.444	5.3	88	0.00
93	TP	4-Ethyltoluene	2.748	2.866	-4.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
94 TP	2-Chlorotoluene	1.887	1.846	2.2	95	0.00
95 TP	1,3,5-Trimethylbenzene	2.450	2.263	7.6	92	0.00
96 TP	1,2,3-Trichloropropane	0.396	0.357	9.8	86	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.135	0.127	5.9	94	0.00
98 TP	4-Chlorotoluene	1.958	1.881	3.9	94	0.00
99 TP	tert-Butylbenzene	2.042	1.966	3.7	95	0.00
102 TP	1,2,4-Trimethylbenzene	2.398	2.284	4.8	95	0.00
103 TP	sec-Butylbenzene	3.096	2.943	4.9	94	0.00
104 TP	p-Isopropyltoluene	2.714	2.538	6.5	94	0.00
105 TP	1,3-Dichlorobenzene	1.339	1.286	4.0	98	0.00
106 TP	1,4-Dichlorobenzene	1.332	1.299	2.5	98	0.00
107 TP	p-Diethylbenzene	1.609	1.527	5.1	95	0.00
108 TP	n-Butylbenzene	2.328	2.300	1.2	98	0.00
109 TP	1,2-Dichlorobenzene	1.258	1.223	2.8	98	0.00
110 TP	1,2,4,5-Tetramethylbenzene	2.538	2.328	8.3	95	0.00
111 TP	1,2-Dibromo-3-chloropropane *	10.000	9.355	6.4	95	0.00
112 TP	1,3,5-Trichlorobenzene	0.921	0.856	7.1	96	0.00
113 TP	Hexachlorobutadiene	0.243	0.245	-0.8	96	0.00
114 TP	1,2,4-Trichlorobenzene	0.793	0.771	2.8	98	0.00
115 TP	Naphthalene	1.887	1.864	1.2	98	0.00
116 TP	1,2,3-Trichlorobenzene	0.727	0.719	1.1	101	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 4 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.772	96	193314	10.000	ug/L	0.00
Standard Area 1 = 193689			Recovery = 99.81%			
63) Chlorobenzene-d5	9.283	117	150107	10.000	ug/L	0.00
Standard Area 1 = 149882			Recovery = 100.15%			
84) 1,4-Dichlorobenzene-d4	12.032	152	81715	10.000	ug/L	0.00
Standard Area 1 = 78717			Recovery = 103.81%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.977	113	56534	10.716	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.16%			
47) 1,2-Dichloroethane-d4	5.490	65	59066	10.576	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.76%			
64) Toluene-d8	7.450	98	203309	10.237	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.37%			
88) 4-Bromofluorobenzene	10.802	95	67311	10.293	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.93%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.519	85	45365	9.121	ug/L	99
3) Chloromethane	1.703	50	48237	10.758	ug/L	99
4) Vinyl chloride	1.770	62	62063	10.658	ug/L	99
5) Bromomethane	2.063	94	55094	10.719	ug/L	95
6) Chloroethane	2.177	64	49322	11.063	ug/L	100
7) Trichlorofluoromethane	2.308	101	111412	11.098	ug/L	100
8) Ethyl ether	2.590	74	34743	11.616	ug/L	99
10) 1,1-Dichloroethene	2.771	96	53935	9.932	ug/L	97
11) Carbon disulfide	2.802	76	109734	7.170	ug/L	100
12) Freon-113	2.807	101	45356	8.700	ug/L	100
13) Iodomethane	2.908	142	55088	10.422	ug/L	99
14) Acrolein	3.081	56	3928	9.062	ug/L	97
15) Methylene chloride	3.315	84	47238	10.377	ug/L	97
17) Acetone	3.348	43	9071	11.729	ug/L	94
18) trans-1,2-Dichloroethene	3.463	96	44646	10.486	ug/L	98
19) Methyl acetate	3.468	43	21057M6	10.919	ug/L	
21) Methyl tert-butyl ether	3.555	73	92164	9.179	ug/L #	97
22) tert-Butyl alcohol	3.647	59	8976	49.105	ug/L #	100
24) Diisopropyl ether	3.906	45	104229	9.439	ug/L	99
25) 1,1-Dichloroethane	4.032	63	84003	10.676	ug/L	99
26) Halothane	4.082	117	35054	11.135	ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.068	53	11091	11.252	ug/L		97
28) Ethyl tert-butyl ether	4.252	59	100421	9.376	ug/L		92
29) Vinyl acetate	4.257	43	56980	7.286	ug/L		99
30) cis-1,2-Dichloroethene	4.534	96	51224	10.323	ug/L		98
31) 2,2-Dichloropropane	4.634	77	64093	9.824	ug/L	#	76
33) Bromochloromethane	4.723	128	22691	10.024	ug/L		96
34) Cyclohexane	4.734	56	72448	9.902	ug/L		97
35) Chloroform	4.804	83	83097	10.662	ug/L		97
36) Ethyl acetate	4.907	43	24839	9.677	ug/L		99
37) Carbon tetrachloride	4.930	117	59438M6	10.306	ug/L		
38) Tetrahydrofuran	4.935	42	8664M6	10.698	ug/L		
40) 1,1,1-Trichloroethane	4.991	97	72457	11.304	ug/L		97
42) 2-Butanone	5.083	43	11202	10.395	ug/L		93
43) 1,1-Dichloropropene	5.114	75	55767	10.707	ug/L		99
45) Benzene	5.356	78	167327	9.752	ug/L		99
46) tert-Amyl methyl ether	5.468	73	92486	9.126	ug/L		99
48) 1,2-Dichloroethane	5.557	62	55197	10.186	ug/L		99
51) Methyl cyclohexane	5.933	83	72306	9.488	ug/L		98
52) Trichloroethene	5.953	95	42903	10.304	ug/L		99
54) Dibromomethane	6.388	93	25930	9.954	ug/L		99
55) 1,2-Dichloropropane	6.483	63	40820	10.111	ug/L		99
57) 2-Chloroethyl vinyl ether	7.186	63	16952	10.034	ug/L		98
58) Bromodichloromethane	6.561	83	56765	9.784	ug/L		98
61) 1,4-Dioxane	6.770	88	10035	482.430	ug/L		99
62) cis-1,3-Dichloropropene	7.244	75	62358	9.928	ug/L		97
65) Toluene	7.509	92	115438	10.283	ug/L		97
66) 4-Methyl-2-pentanone	7.944	58	9468	9.889	ug/L		95
67) Tetrachloroethene	7.952	166	44406	10.282	ug/L		98
69) trans-1,3-Dichloropropene	7.991	75	52057	9.590	ug/L		99
71) Ethyl methacrylate	8.181	69	41315	10.777	ug/L		98
72) 1,1,2-Trichloroethane	8.170	83	25593	9.079	ug/L		97
73) Chlorodibromomethane	8.382	129	34885	8.892	ug/L		98
74) 1,3-Dichloropropane	8.493	76	53726	9.220	ug/L		98
75) 1,2-Dibromoethane	8.652	107	30297	9.389	ug/L		96
77) 2-Hexanone	8.940	43	14933	9.792	ug/L		94
78) Chlorobenzene	9.299	112	126459	9.902	ug/L		99
79) Ethylbenzene	9.341	91	215583	9.592	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.386	131	35345	8.878	ug/L		99
81) p/m Xylene	9.528	106	172248	18.734	ug/L		97
82) o Xylene	10.077	106	167450	18.296	ug/L		98

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.144	104	279010	17.897	ug/L	100
85) Bromoform	10.172	173	19408	8.447	ug/L	99
87) Isopropylbenzene	10.473	105	194901	8.647	ug/L	99
89) Bromobenzene	10.914	156	48158	9.578	ug/L	99
90) n-Propylbenzene	10.964	91	266714	9.817	ug/L	100
91) 1,4-Dichlorobutane	10.978	55	53455	10.771	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.059	83	36249	9.468	ug/L	99
93) 4-Ethyltoluene	11.095	105	234217	10.428	ug/L	100
94) 2-Chlorotoluene	11.134	91	150820M6	9.782	ug/L	
95) 1,3,5-Trimethylbenzene	11.193	105	184940	9.239	ug/L	99
96) 1,2,3-Trichloropropane	11.196	75	29174M6	9.007	ug/L	
97) trans-1,4-Dichloro-2-b...	11.251	53	10338	9.383	ug/L	98
98) 4-Chlorotoluene	11.321	91	153744	9.609	ug/L	100
99) tert-Butylbenzene	11.541	119	160644	9.629	ug/L	99
102) 1,2,4-Trimethylbenzene	11.619	105	186620	9.523	ug/L	98
103) sec-Butylbenzene	11.734	105	240484	9.507	ug/L	99
104) p-Isopropyltoluene	11.893	119	207386	9.351	ug/L	99
105) 1,3-Dichlorobenzene	11.954	146	105104	9.606	ug/L	99
106) 1,4-Dichlorobenzene	12.049	146	106167	9.752	ug/L	99
107) p-Diethylbenzene	12.269	119	124786	9.492	ug/L	99
108) n-Butylbenzene	12.328	91	187969	9.881	ug/L	99
109) 1,2-Dichlorobenzene	12.476	146	99967	9.726	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.070	119	190194	9.171	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.262	155	5545	9.355	ug/L	99
112) 1,3,5-Trichlorobenzene	13.293	180	69968	9.294	ug/L	99
113) Hexachlorobutadiene	13.870	225	20045	10.110	ug/L	97
114) 1,2,4-Trichlorobenzene	13.895	180	63012	9.722	ug/L	99
115) Naphthalene	14.188	128	152282	9.875	ug/L	100
116) 1,2,3-Trichlorobenzene	14.358	180	58768	9.889	ug/L	97

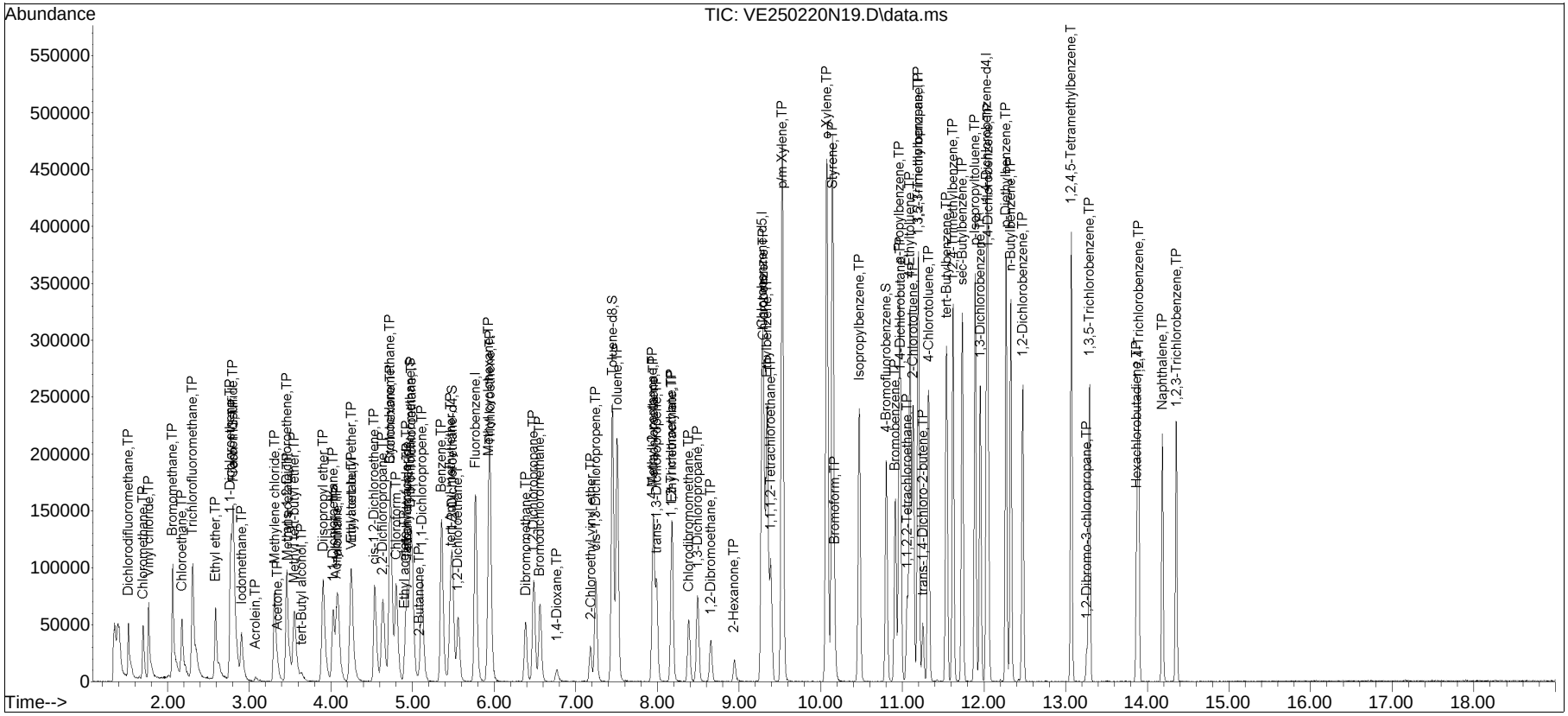
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

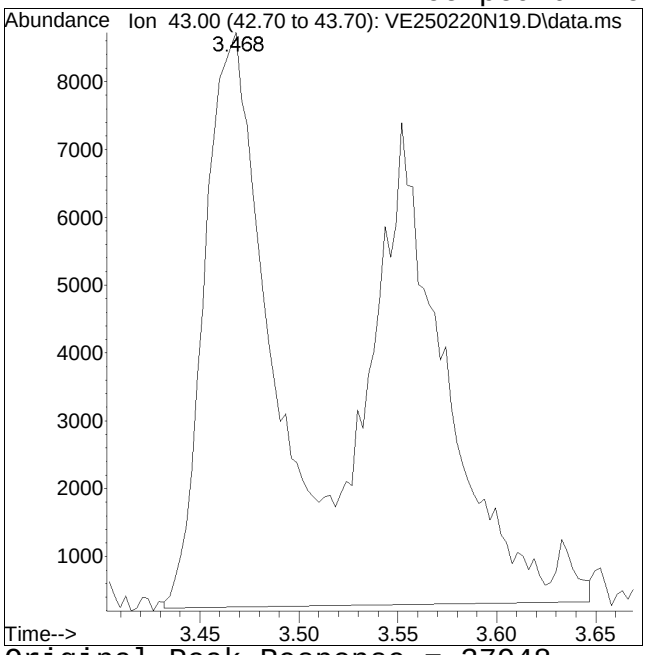


Manual Integration Report

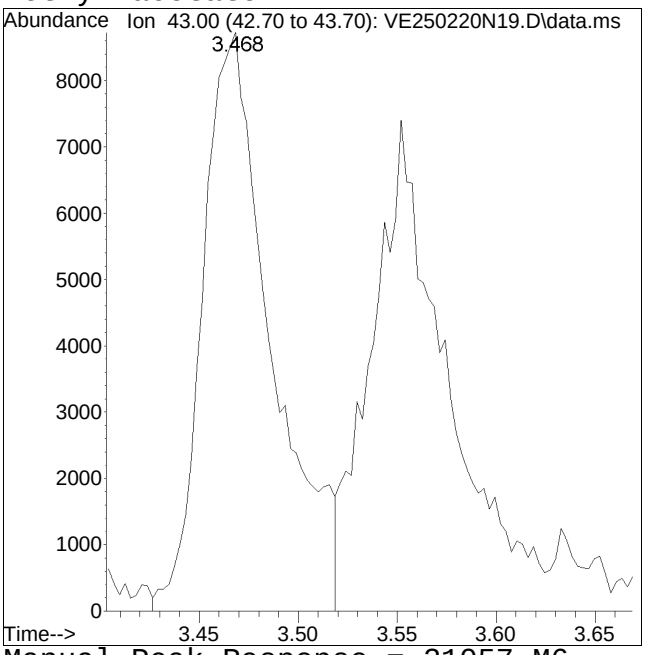
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N19.D
Date Inj'd : 2/21/2025 5:47 am
Sample : C8260STD10PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:17 am

Compound #19: Methyl acetate



Original Peak Response = 37948



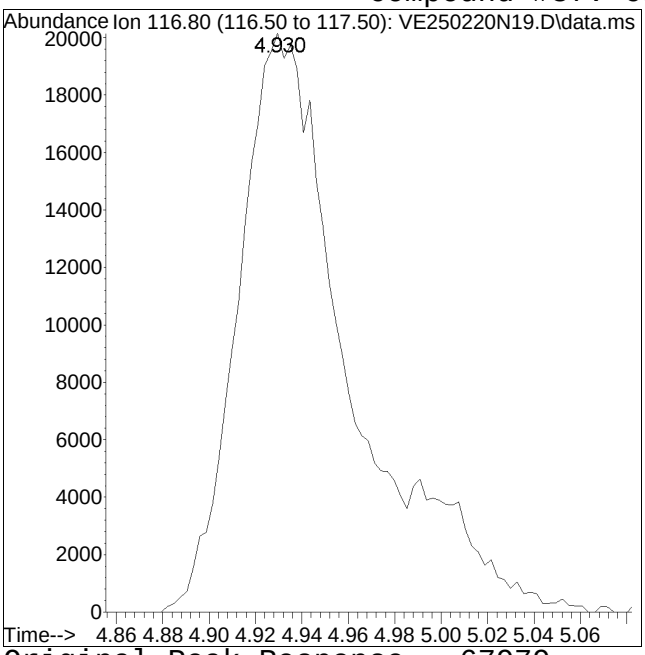
Manual Peak Response = 21057 M6

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

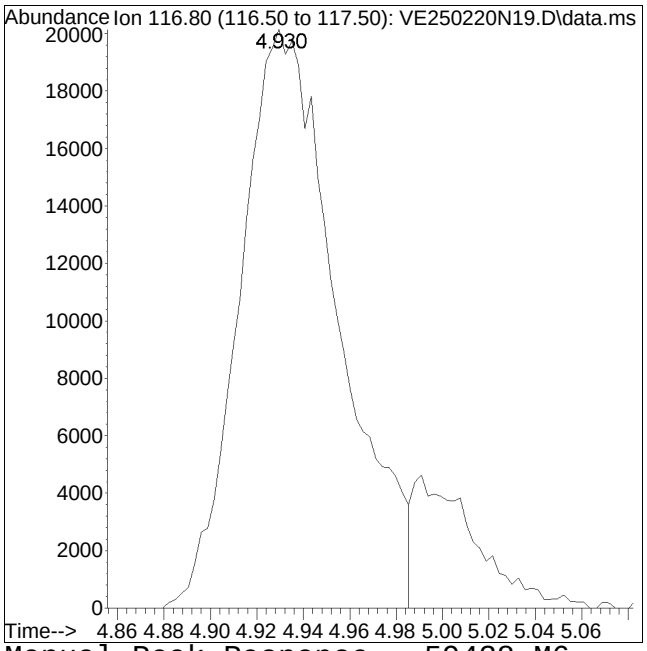
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N19.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 5:47 am Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 2/24/2025 7:17 am

Compound #37: Carbon tetrachloride



Original Peak Response = 67979



Manual Peak Response = 59438 M6

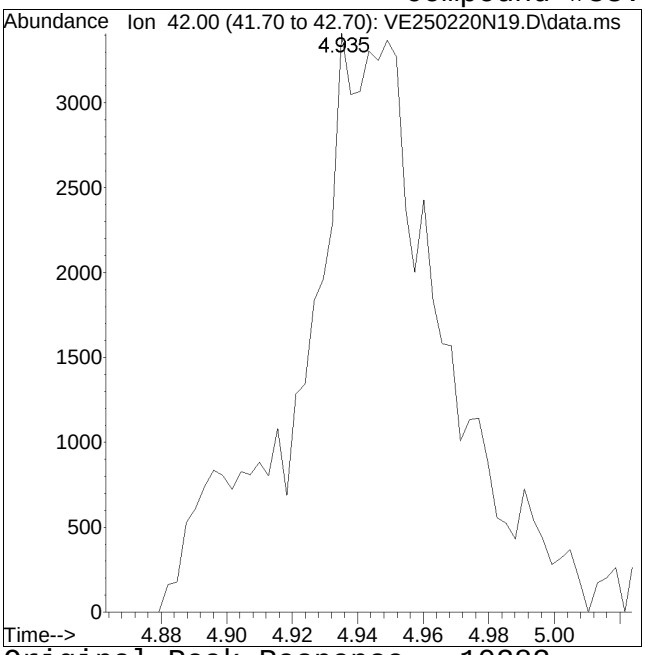
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

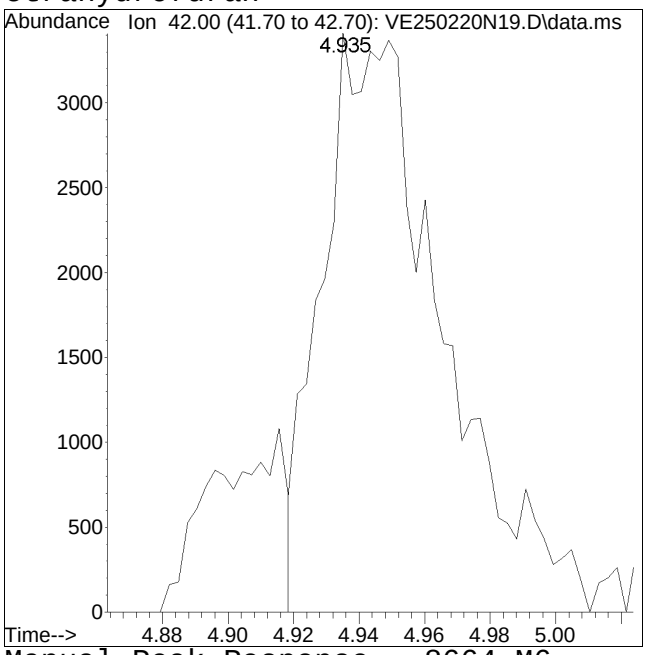
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N19.D
Date Inj'd : 2/21/2025 5:47 am
Sample : C8260STD10PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:17 am

Compound #38: Tetrahydrofuran



Original Peak Response = 10283



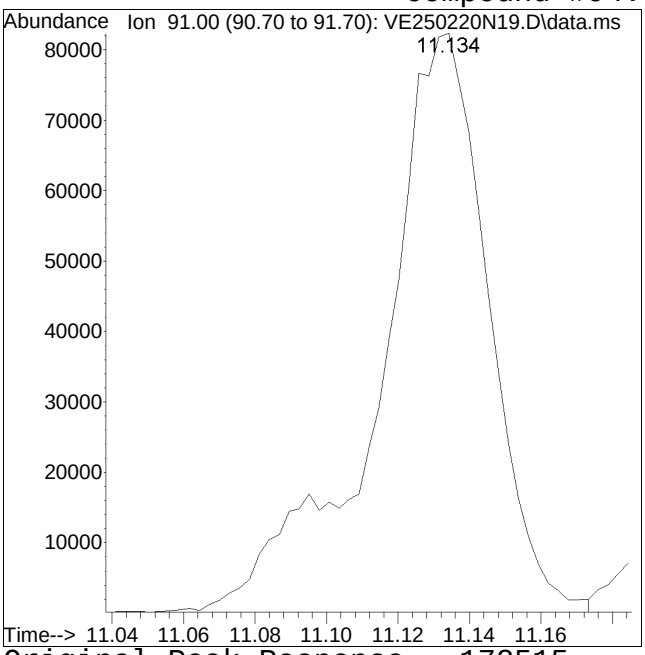
Manual Peak Response = 8664 M6

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

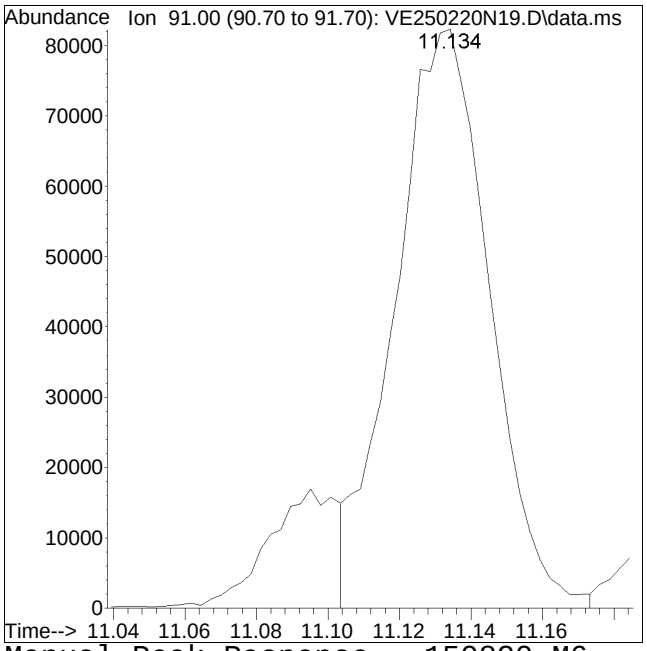
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N19.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 5:47 am Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 2/24/2025 7:17 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 172515



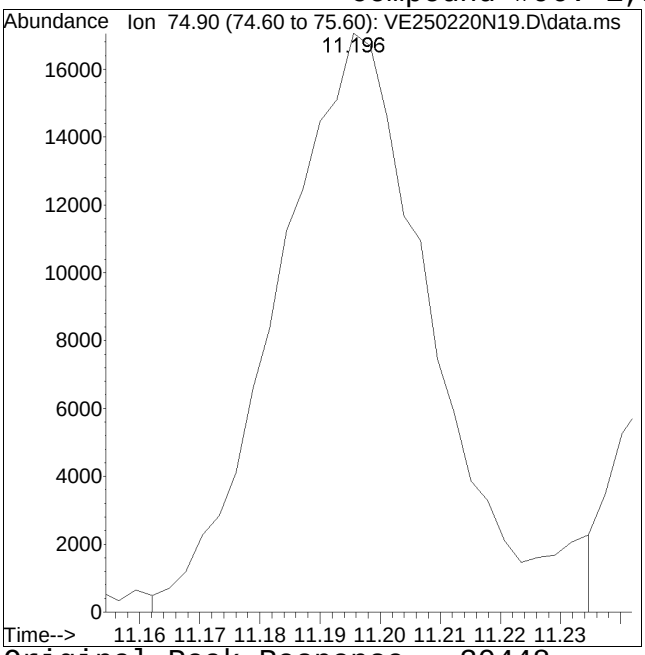
Manual Peak Response = 150820 M6

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

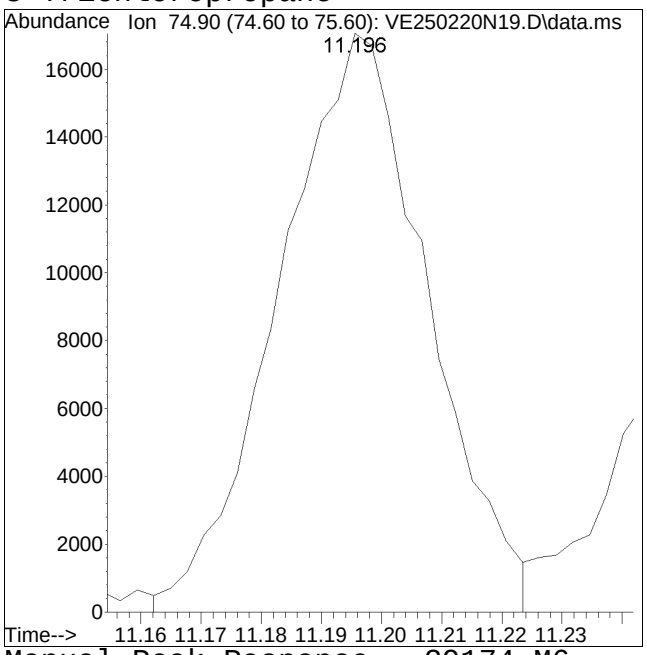
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N19.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 5:47 am Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 2/24/2025 7:17 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 30448



Manual Peak Response = 29174 M6

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

Evaluate Relative Error Report Elaine

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
85	TP Bromoform	Q	ug/L	10.0	9.303	-7.0	0.50	0.603	20.6
111	TP 1,2-Dibromo-3-chloropropane	L	ug/L	10.0	10.202	2.0	0.50	0.543	8.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
85	TP Bromoform	Quadratic	0.999622	0.002587	0.290021	-0.00932533
111	TP 1,2-Dibromo-3-chloropropane	Linear	0.999353	0.000000	0.0753717	-0.00265386

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: ELAINE	**Calibration Date**	: 03/07/25 06:59		
Lab File ID	: VE250307A01	**Init. Calib. Date(s)**	: 02/20/25	02/21/25	
Sample No	: WG2037848-2	**Init. Calib. Times**	: 23:45	03:46	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	185	-.01
Dichlorodifluoromethane	0.257	0.196	-	23.7*	20	121	-.01
Chloromethane	0.232	0.215	-	7.3	20	151	-.01
Vinyl chloride	0.301	0.265	-	12	20	146	-.02
Bromomethane	0.266	0.169	-	36.5*	20	108	-.02
Chloroethane	0.231	0.187	-	19	20	132	-.02
Trichlorofluoromethane	0.519	0.393	-	24.3*	20	123	-.02
Ethyl ether	0.155	0.133	-	14.2	20	144	-.02
1,1-Dichloroethene	0.281	0.222	-	21*	20	132	-.02
Carbon disulfide	0.792	0.643	-	18.8	20	140	-.01
Freon-113	0.27	0.213	-	21.1*	20	138	-.01
Acrolein	0.022	0.031	-	-40.9*	20	266	-.02
Methylene chloride	0.235	0.249	-	-6	20	185	0
Acetone	0.04	0.05	-	-25*	20	239	-.02
trans-1,2-Dichloroethene	0.22	0.253	-	-15	20	194	-.01
Methyl acetate	0.1	0.108	-	-8	20	190	0
Methyl tert-butyl ether	0.519	0.552	-	-6.4	20	197	-.01
tert-Butyl alcohol	0.00946	0.01204	-	-27.3*	20	221	-.01
Diisopropyl ether	0.571	0.671	-	-17.5	20	213	-.02
1,1-Dichloroethane	0.407	0.457	-	-12.3	20	192	-.01
Halothane	0.163	0.183	-	-12.3	20	186	-.01
Acrylonitrile	0.051	0.056	-	-9.8	20	186	-.01
Ethyl tert-butyl ether	0.554	0.611	-	-10.3	20	208	-.02
Vinyl acetate	0.405	0.437	-	-7.9	20	212	-.01
cis-1,2-Dichloroethene	0.257	0.274	-	-6.6	20	181	-.01
2,2-Dichloropropane	0.337	0.378	-	-12.2	20	195	-.01
Bromochloromethane	0.117	0.127	-	-8.5	20	184	-.01
Cyclohexane	0.378	0.414	-	-9.5	20	179	-.01
Chloroform	0.403	0.445	-	-10.4	20	189	0
Ethyl acetate	0.133	0.144	-	-8.3	20	205	0
Carbon tetrachloride	0.298	0.322	-	-8.1	20	180	0
Tetrahydrofuran	0.042	0.044	-	-4.8	20	180	-.02
Dibromofluoromethane	0.273	0.271	-	0.7	20	178	-.02
1,1,1-Trichloroethane	0.332	0.359	-	-8.1	20	178	-.01
2-Butanone	0.056	0.076	-	-35.7*	20	253	-.02
1,1-Dichloropropene	0.269	0.294	-	-9.3	20	192	-.01
Benzene	0.888	0.95	-	-7	20	194	-.01
tert-Amyl methyl ether	0.524	0.526	-	-0.4	20	187	-.01
1,2-Dichloroethane-d4	0.289	0.305	-	-5.5	20	189	-.02
1,2-Dichloroethane	0.28	0.306	-	-9.3	20	189	-.01
Methyl cyclohexane	0.394	0.388	-	1.5	20	173	-.01
Trichloroethene	0.215	0.243	-	-13	20	198	-.01
Dibromomethane	0.135	0.14	-	-3.7	20	181	-.01

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: ELAINE	**Calibration Date**	: 03/07/25 06:59		
Lab File ID	: VE250307A01	**Init. Calib. Date(s)**	: 02/20/25	02/21/25	
Sample No	: WG2037848-2	**Init. Calib. Times**	: 23:45	03:46	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.209	0.247	-	-18.2	20	203	-.01
Bromodichloromethane	0.3	0.322	-	-7.3	20	189	0
1,4-Dioxane	0.00108	0.0017*	-	-57.4*	20	265	-.01
cis-1,3-Dichloropropene	0.325	0.364	-	-12	20	197	0
Chlorobenzene-d5	1	1	-	0	20	179	0
Toluene-d8	1.323	1.362	-	-2.9	20	180	-.01
Toluene	0.748	0.785	-	-4.9	20	178	0
4-Methyl-2-pentanone	0.064	0.062	-	3.1	20	176	0
Tetrachloroethene	0.288	0.342	-	-18.8	20	203	0
trans-1,3-Dichloropropene	0.362	0.386	-	-6.6	20	191	0
Ethyl methacrylate	0.255	0.249	-	2.4	20	160	0
1,1,2-Trichloroethane	0.188	0.194*	-	-3.2	20	185	0
Chlorodibromomethane	0.261	0.278	-	-6.5	20	197	0
1,3-Dichloropropane	0.388	0.438	-	-12.9	20	198	0
1,2-Dibromoethane	0.215	0.233	-	-8.4	20	188	0
2-Hexanone	0.102	0.101	-	1	20	167	-.01
Chlorobenzene	0.851	0.901	-	-5.9	20	183	0
Ethylbenzene	1.497	1.565	-	-4.5	20	181	0
1,1,1,2-Tetrachloroethane	0.265	0.295	-	-11.3	20	205	0
p/m Xylene	0.613	0.617	-	-0.7	20	185	0
o Xylene	0.61	0.61	-	0	20	187	0
Styrene	1.039	0.975	-	6.2	20	179	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	182	0
Bromoform	10	10.105	-	-1.1	20	198	0
Isopropylbenzene	2.758	3.004	-	-8.9	20	185	0
4-Bromofluorobenzene	0.8	0.884	-	-10.5	20	188	0
Bromobenzene	0.615	0.695	-	-13	20	190	0
n-Propylbenzene	3.325	3.614	-	-8.7	20	185	0
1,4-Dichlorobutane	0.607	0.696	-	-14.7	20	187	0
1,1,2,2-Tetrachloroethane	0.469	0.488	-	-4.1	20	170	0
4-Ethyltoluene	2.748	2.951	-	-7.4	20	180	0
2-Chlorotoluene	1.887	2.162	-	-14.6	20	196	0
1,3,5-Trimethylbenzene	2.45	2.491	-	-1.7	20	177	0
1,2,3-Trichloropropane	0.396	0.409	-	-3.3	20	171	0
trans-1,4-Dichloro-2-buten	0.135	0.13	-	3.7	20	170	0
4-Chlorotoluene	1.958	2.258	-	-15.3	20	198	0
tert-Butylbenzene	2.042	2.205	-	-8	20	187	0
1,2,4-Trimethylbenzene	2.398	2.474	-	-3.2	20	180	0
sec-Butylbenzene	3.096	3.259	-	-5.3	20	182	0
p-Isopropyltoluene	2.714	2.826	-	-4.1	20	183	0
1,3-Dichlorobenzene	1.339	1.463	-	-9.3	20	195	0
1,4-Dichlorobenzene	1.332	1.399	-	-5	20	184	0
p-Diethylbenzene	1.609	1.603	-	0.4	20	174	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: ELAINE	**Calibration Date**	: 03/07/25 06:59		
Lab File ID	: VE250307A01	**Init. Calib. Date(s)**	: 02/20/25	02/21/25	
Sample No	: WG2037848-2	**Init. Calib. Times**	: 23:45	03:46	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.328	2.305	-	1	20	172	0
1,2-Dichlorobenzene	1.258	1.364	-	-8.4	20	191	0
1,2,4,5-Tetramethylbenzene	2.538	2.577	-	-1.5	20	185	0
1,2-Dibromo-3-chloropropan	10	10.125	-	-1.3	20	180	0
1,3,5-Trichlorobenzene	0.921	0.995	-	-8	20	196	0
Hexachlorobutadiene	0.243	0.267	-	-9.9	20	183	0
1,2,4-Trichlorobenzene	0.793	0.874	-	-10.2	20	194	0
Naphthalene	1.887	1.962	-	-4	20	181	0
1,2,3-Trichlorobenzene	0.727	0.768	-	-5.6	20	188	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Acq On : 7 Mar 2025 6:59 am
Operator : ELAINE:PID
Sample : WG2037848-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	185	-0.01
2	TP	Dichlorodifluoromethane	0.257	0.196	23.7#	121	-0.01
3	TP	Chloromethane	0.232	0.215	7.3	151	-0.01
4	TP	Vinyl chloride	0.301	0.265	12.0	146	-0.02
5	TP	Bromomethane	0.266	0.169	36.5#	108	-0.02
6	TP	Chloroethane	0.231	0.187	19.0	132	-0.02
7	TP	Trichlorofluoromethane	0.519	0.393	24.3#	123	-0.02
8	TP	Ethyl ether	0.155	0.133	14.2	144	-0.02
10	TP	1,1-Dichloroethene	0.281	0.222	21.0#	132	-0.02
11	TP	Carbon disulfide	0.792	0.643	18.8	140	-0.01
12	TP	Freon-113	0.270	0.213	21.1#	138	-0.01
14	TP	Acrolein	0.022	0.031	-40.9#	266#	-0.02
15	TP	Methylene chloride	0.235	0.249	-6.0	185	0.00
17	TP	Acetone	0.040	0.050	-25.0#	239#	-0.02
18	TP	trans-1,2-Dichloroethene	0.220	0.253	-15.0	194	-0.01
19	TP	Methyl acetate	0.100	0.108	-8.0	190	0.00
21	TP	Methyl tert-butyl ether	0.519	0.552	-6.4	197	-0.01
22	TP	tert-Butyl alcohol	0.00946	0.01204	-27.3#	221#	-0.01
24	TP	Diisopropyl ether	0.571	0.671	-17.5	213#	-0.02
25	TP	1,1-Dichloroethane	0.407	0.457	-12.3	192	-0.01
26	TP	Halothane	0.163	0.183	-12.3	186	-0.01
27	TP	Acrylonitrile	0.051	0.056	-9.8	186	-0.01
28	TP	Ethyl tert-butyl ether	0.554	0.611	-10.3	208#	-0.02
29	TP	Vinyl acetate	0.405	0.437	-7.9	212#	-0.01
30	TP	cis-1,2-Dichloroethene	0.257	0.274	-6.6	181	-0.01
31	TP	2,2-Dichloropropane	0.337	0.378	-12.2	195	-0.01
33	TP	Bromochloromethane	0.117	0.127	-8.5	184	-0.01
34	TP	Cyclohexane	0.378	0.414	-9.5	179	-0.01
35	TP	Chloroform	0.403	0.445	-10.4	189	0.00
36	TP	Ethyl acetate	0.133	0.144	-8.3	205#	0.00
37	TP	Carbon tetrachloride	0.298	0.322	-8.1	180	0.00
38	TP	Tetrahydrofuran	0.042	0.044	-4.8	180	-0.02
39	S	Dibromofluoromethane	0.273	0.271	0.7	178	-0.02
40	TP	1,1,1-Trichloroethane	0.332	0.359	-8.1	178	-0.01
42	TP	2-Butanone	0.056	0.076	-35.7#	253#	-0.02
43	TP	1,1-Dichloropropene	0.269	0.294	-9.3	192	-0.01
45	TP	Benzene	0.888	0.950	-7.0	194	-0.01
46	TP	tert-Amyl methyl ether	0.524	0.526	-0.4	187	-0.01
47	S	1,2-Dichloroethane-d4	0.289	0.305	-5.5	189	-0.02

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Acq On : 7 Mar 2025 6:59 am
Operator : ELAINE:PID
Sample : WG2037848-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	T	1,2-Dichloroethane	0.280	0.306	-9.3	189	-0.01
51	TP	Methyl cyclohexane	0.394	0.388	1.5	173	-0.01
52	TP	Trichloroethene	0.215	0.243	-13.0	198	-0.01
54	TP	Dibromomethane	0.135	0.140	-3.7	181	-0.01
55	TP	1,2-Dichloropropane	0.209	0.247	-18.2	203#	-0.01
58	TP	Bromodichloromethane	0.300	0.322	-7.3	189	0.00
61	TP	1,4-Dioxane	0.00108	0.00170#	-57.4#	265#	-0.01
62	TP	cis-1,3-Dichloropropene	0.325	0.364	-12.0	197	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	179	0.00
64	S	Toluene-d8	1.323	1.362	-2.9	180	-0.01
65	TP	Toluene	0.748	0.785	-4.9	178	0.00
66	TP	4-Methyl-2-pentanone	0.064	0.062	3.1	176	0.00
67	TP	Tetrachloroethene	0.288	0.342	-18.8	203#	0.00
69	TP	trans-1,3-Dichloropropene	0.362	0.386	-6.6	191	0.00
71	TP	Ethyl methacrylate	0.255	0.249	2.4	160	0.00
72	TP	1,1,2-Trichloroethane	0.188	0.194#	-3.2	185	0.00
73	TP	Chlorodibromomethane	0.261	0.278	-6.5	197	0.00
74	TP	1,3-Dichloropropane	0.388	0.438	-12.9	198	0.00
75	TP	1,2-Dibromoethane	0.215	0.233	-8.4	188	0.00
77	TP	2-Hexanone	0.102	0.101	1.0	167	-0.01
78	TP	Chlorobenzene	0.851	0.901	-5.9	183	0.00
79	TP	Ethylbenzene	1.497	1.565	-4.5	181	0.00
80	TP	1,1,1,2-Tetrachloroethane	0.265	0.295	-11.3	205#	0.00
81	TP	p/m Xylene	0.613	0.617	-0.7	185	0.00
82	TP	o Xylene	0.610	0.610	0.0	187	0.00
83	TP	Styrene	1.039	0.975	6.2	179	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	182	0.00
85	TP	Bromoform	* 10.000	10.105	-1.1	198	0.00
87	TP	Isopropylbenzene	2.758	3.004	-8.9	185	0.00
88	S	4-Bromofluorobenzene	0.800	0.884	-10.5	188	0.00
89	TP	Bromobenzene	0.615	0.695	-13.0	190	0.00
90	TP	n-Propylbenzene	3.325	3.614	-8.7	185	0.00
91	TP	1,4-Dichlorobutane	0.607	0.696	-14.7	187	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.469	0.488	-4.1	170	0.00
93	TP	4-Ethyltoluene	2.748	2.951	-7.4	180	0.00
94	TP	2-Chlorotoluene	1.887	2.162	-14.6	196	0.00
95	TP	1,3,5-Trimethylbenzene	2.450	2.491	-1.7	177	0.00

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Acq On : 7 Mar 2025 6:59 am
Operator : ELAINE:PID
Sample : WG2037848-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 TP	1,2,3-Trichloropropane	0.396	0.409	-3.3	171	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.135	0.130	3.7	170	0.00
98 TP	4-Chlorotoluene	1.958	2.258	-15.3	198	0.00
99 TP	tert-Butylbenzene	2.042	2.205	-8.0	187	0.00
102 TP	1,2,4-Trimethylbenzene	2.398	2.474	-3.2	180	0.00
103 TP	sec-Butylbenzene	3.096	3.259	-5.3	182	0.00
104 TP	p-Isopropyltoluene	2.714	2.826	-4.1	183	0.00
105 TP	1,3-Dichlorobenzene	1.339	1.463	-9.3	195	0.00
106 TP	1,4-Dichlorobenzene	1.332	1.399	-5.0	184	0.00
107 TP	p-Diethylbenzene	1.609	1.603	0.4	174	0.00
108 TP	n-Butylbenzene	2.328	2.305	1.0	172	0.00
109 TP	1,2-Dichlorobenzene	1.258	1.364	-8.4	191	0.00
110 TP	1,2,4,5-Tetramethylbenzene	2.538	2.577	-1.5	185	0.00
111 TP	1,2-Dibromo-3-chloropropane *	10.000	10.125	-1.3	180	0.00
112 TP	1,3,5-Trichlorobenzene	0.921	0.995	-8.0	196	0.00
113 TP	Hexachlorobutadiene	0.243	0.267	-9.9	183	0.00
114 TP	1,2,4-Trichlorobenzene	0.793	0.874	-10.2	194	0.00
115 TP	Naphthalene	1.887	1.962	-4.0	181	0.00
116 TP	1,2,3-Trichlorobenzene	0.727	0.768	-5.6	188	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 2 CCC's out = 0

Quantitation Report (QT Reviewed)

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Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.764	96	358002	10.000	ug/L	-0.01
63) Chlorobenzene-d5	9.276	117	268415	10.000	ug/L	0.00
84) 1,4-Dichlorobenzene-d4	12.033	152	143026	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	4.960	113	97032	9.931	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.31%			
47) 1,2-Dichloroethane-d4	5.478	65	109342	10.572	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.72%			
64) Toluene-d8	7.438	98	365558	10.293	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.93%			
88) 4-Bromofluorobenzene	10.799	95	126425	11.045	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.45%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.509	85	70228	7.624	ug/L	99
3) Chloromethane	1.689	50	76983	9.271	ug/L	99
4) Vinyl chloride	1.755	62	94750	8.787	ug/L	99
5) Bromomethane	2.049	94	60493	6.355	ug/L	97
6) Chloroethane	2.159	64	66812	8.092	ug/L	97
7) Trichlorofluoromethane	2.295	101	140544	7.560	ug/L	99
8) Ethyl ether	2.576	74	47480	8.572	ug/L	89
10) 1,1-Dichloroethene	2.760	96	79636	7.919	ug/L	93
11) Carbon disulfide	2.787	76	230352	8.127	ug/L	99
12) Freon-113	2.796	101	76134	7.886	ug/L	92
14) Acrolein	3.068	56	11128	13.863	ug/L	87
15) Methylene chloride	3.301	84	89241	10.586	ug/L	96
17) Acetone	3.331	43	17745	12.389	ug/L	95
18) trans-1,2-Dichloroethene	3.450	96	90422	11.467	ug/L	97
19) Methyl acetate	3.454	43	38742	10.848	ug/L	97
21) Methyl tert-butyl ether	3.538	73	197775	10.637	ug/L #	98
22) tert-Butyl alcohol	3.630	59	21555	63.674	ug/L #	100
24) Diisopropyl ether	3.889	45	240133	11.743	ug/L	97
25) 1,1-Dichloroethane	4.016	63	163535	11.223	ug/L	99
26) Halothane	4.069	117	65638	11.259	ug/L	97
27) Acrylonitrile	4.056	53	19941	10.924	ug/L	91
28) Ethyl tert-butyl ether	4.231	59	218905	11.036	ug/L	97
29) Vinyl acetate	4.245	43	156457	10.804	ug/L	100
30) cis-1,2-Dichloroethene	4.526	96	98052	10.670	ug/L	93
31) 2,2-Dichloropropane	4.627	77	135377	11.205	ug/L #	100

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Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
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Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Bromochloromethane	4.714	128	45465	10.845	ug/L		96
34) Cyclohexane	4.723	56	148335	10.948	ug/L		97
35) Chloroform	4.793	83	159455	11.048	ug/L		100
36) Ethyl acetate	4.894	43	51713	10.879	ug/L		96
37) Carbon tetrachloride	4.925	117	115121M6	10.779	ug/L		
38) Tetrahydrofuran	4.934	42	15884M6	10.591	ug/L		
40) 1,1,1-Trichloroethane	4.982	97	128487	10.824	ug/L		99
42) 2-Butanone	5.070	43	27193	13.626	ug/L	#	81
43) 1,1-Dichloropropene	5.105	75	105344	10.922	ug/L		100
45) Benzene	5.347	78	340169	10.706	ug/L		98
46) tert-Amyl methyl ether	5.456	73	188240	10.030	ug/L		95
48) 1,2-Dichloroethane	5.549	62	109610	10.922	ug/L		98
51) Methyl cyclohexane	5.927	83	138904	9.842	ug/L		89
52) Trichloroethene	5.936	95	87092	11.295	ug/L		99
54) Dibromomethane	6.375	93	50030	10.370	ug/L		95
55) 1,2-Dichloropropane	6.474	63	88318	11.812	ug/L		98
58) Bromodichloromethane	6.556	83	115160	10.718	ug/L		100
61) 1,4-Dioxane	6.755	88	30372	788.440	ug/L		93
62) cis-1,3-Dichloropropene	7.239	75	130346	11.206	ug/L		98
65) Toluene	7.502	92	210766	10.499	ug/L		99
66) 4-Methyl-2-pentanone	7.932	58	16530	9.655	ug/L		91
67) Tetrachloroethene	7.945	166	91691	11.873	ug/L		99
69) trans-1,3-Dichloropropene	7.990	75	103684	10.682	ug/L		97
71) Ethyl methacrylate	8.176	69	66887	9.757	ug/L		88
72) 1,1,2-Trichloroethane	8.167	83	51997	10.316	ug/L		98
73) Chlorodibromomethane	8.375	129	74677	10.645	ug/L		98
74) 1,3-Dichloropropane	8.484	76	117652	11.291	ug/L		99
75) 1,2-Dibromoethane	8.647	107	62463	10.826	ug/L		95
77) 2-Hexanone	8.932	43	27158	9.959	ug/L		98
78) Chlorobenzene	9.298	112	241828	10.590	ug/L		97
79) Ethylbenzene	9.339	91	420066	10.453	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.384	131	79286	11.137	ug/L		98
81) p/m Xylene	9.524	106	331410	20.157	ug/L		98
82) o Xylene	10.072	106	327722	20.025	ug/L		100
83) Styrene	10.140	104	523494	18.779	ug/L		96
85) Bromoform	10.167	173	40962	10.105	ug/L		95
87) Isopropylbenzene	10.469	105	429598	10.889	ug/L		99
89) Bromobenzene	10.909	156	99355	11.290	ug/L		97
90) n-Propylbenzene	10.962	91	516865	10.869	ug/L		99
91) 1,4-Dichlorobutane	10.975	55	99504	11.455	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.055	83	69748	10.409	ug/L		94

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Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
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Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 4-Ethyltoluene	11.090	105	422012	10.735	ug/L	98
94) 2-Chlorotoluene	11.129	91	309158M6	11.456	ug/L	
95) 1,3,5-Trimethylbenzene	11.191	105	356262	10.168	ug/L	98
96) 1,2,3-Trichloropropane	11.195	75	58443	10.309	ug/L	99
97) trans-1,4-Dichloro-2-b...	11.248	53	18655	9.673	ug/L	90
98) 4-Chlorotoluene	11.314	91	322935	11.532	ug/L	99
99) tert-Butylbenzene	11.539	119	315422	10.802	ug/L	97
102) 1,2,4-Trimethylbenzene	11.618	105	353852	10.316	ug/L	99
103) sec-Butylbenzene	11.733	105	466088	10.527	ug/L	99
104) p-Isopropyltoluene	11.892	119	404149	10.411	ug/L	99
105) 1,3-Dichlorobenzene	11.953	146	209307	10.929	ug/L	98
106) 1,4-Dichlorobenzene	12.046	146	200109	10.502	ug/L	99
107) p-Diethylbenzene	12.266	119	229223	9.962	ug/L	98
108) n-Butylbenzene	12.323	91	329640	9.900	ug/L	98
109) 1,2-Dichlorobenzene	12.473	146	195094	10.844	ug/L	99
110) 1,2,4,5-Tetramethylben...	13.068	119	368621	10.155	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.262	155	10535	10.125	ug/L	95
112) 1,3,5-Trichlorobenzene	13.293	180	142353	10.804	ug/L	98
113) Hexachlorobutadiene	13.870	225	38218	11.013	ug/L	96
114) 1,2,4-Trichlorobenzene	13.892	180	125005	11.019	ug/L	98
115) Naphthalene	14.182	128	280594	10.395	ug/L	100
116) 1,2,3-Trichlorobenzene	14.354	180	109803	10.557	ug/L	98

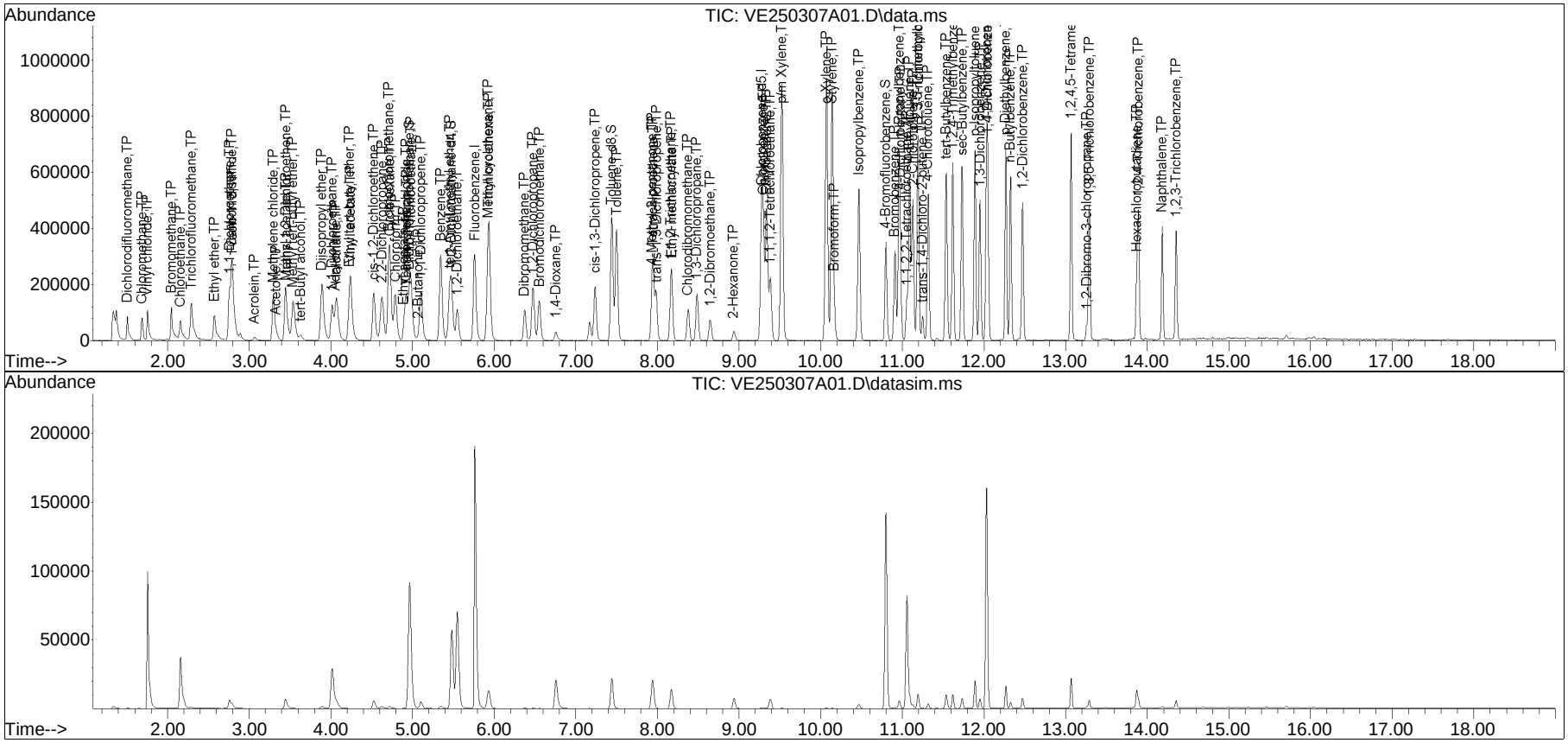
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Acq On : 7 Mar 2025 6:59 am
Operator : ELAINE:PID
Sample : WG2037848-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

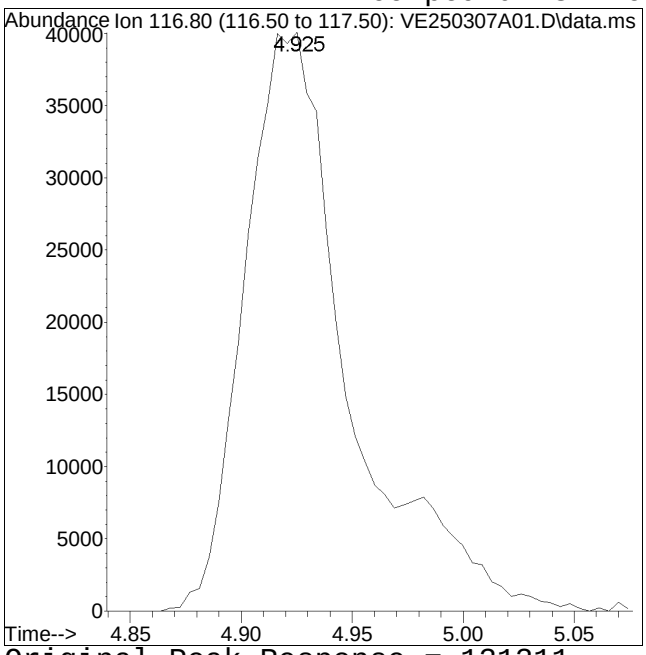
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



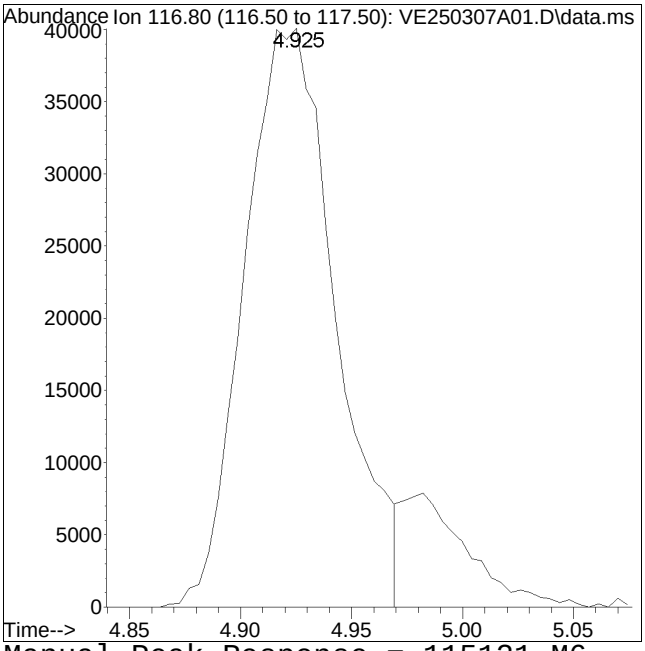
Manual Integration Report

Data Path	: K:\Elaine\2025\250307A\	QMethod	: Elaine_250220N_8260.m
Data File	: VE250307A01.D	Operator	: ELAINE:PID
Date Inj'd	: 3/7/2025 6:59 am	Instrument	: Elaine
Sample	: WG2037848-2	Quant Date	: 3/7/2025 7:25 am

Compound #37: Carbon tetrachloride



Original Peak Response = 131311



Manual Peak Response = 115121 M6

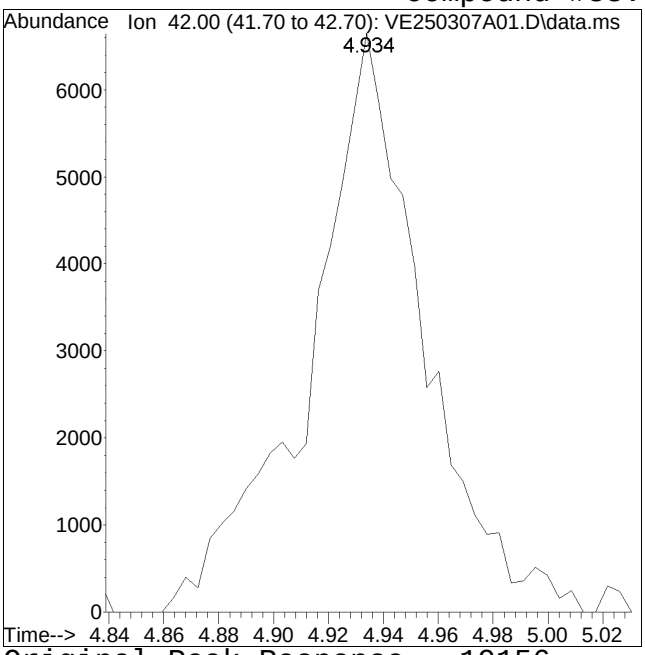
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

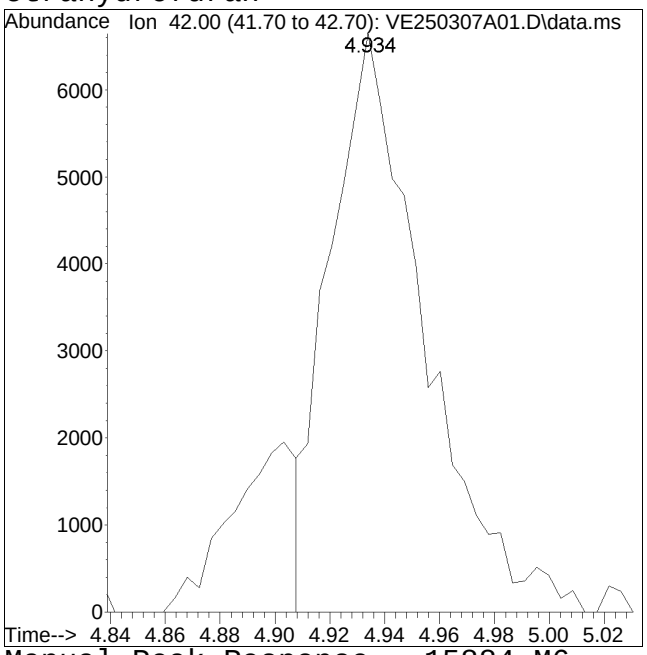
Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Date Inj'd : 3/7/2025 6:59 am
Sample : WG2037848-2

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/7/2025 7:25 am

Compound #38: Tetrahydrofuran



Original Peak Response = 19156



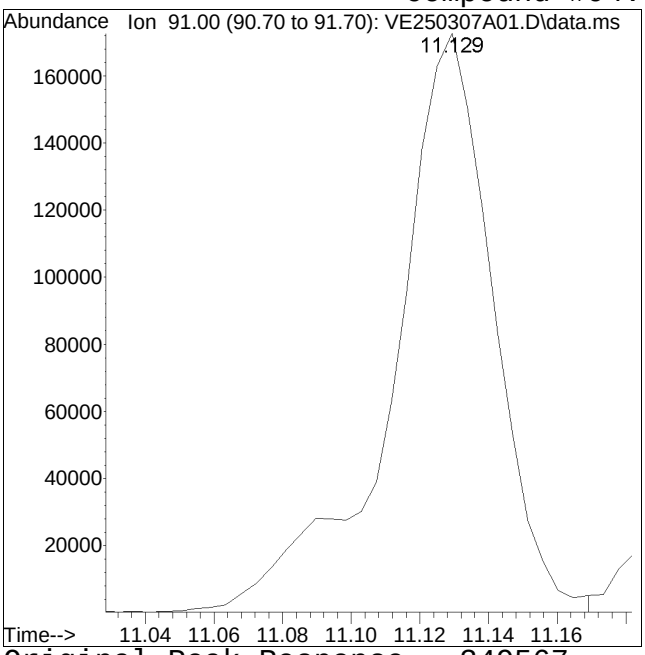
Manual Peak Response = 15884 M6

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

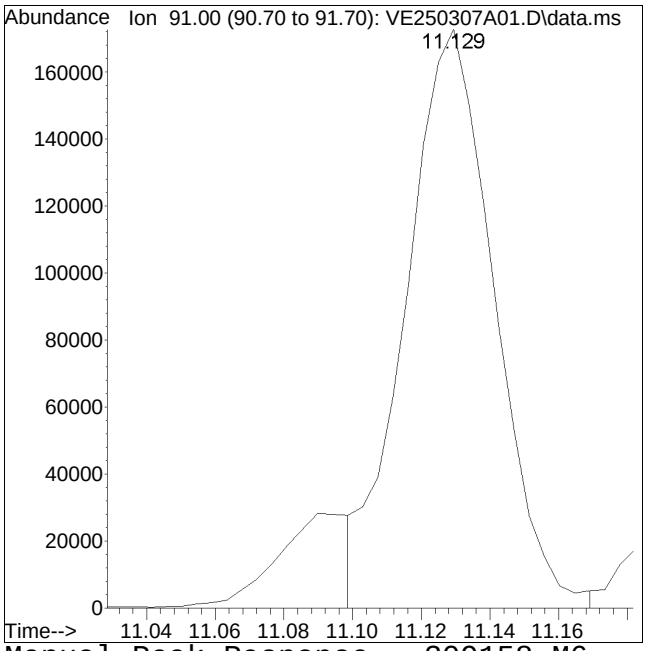
Manual Integration Report

Data Path	: K:\Elaine\2025\250307A\	QMethod	: Elaine_250220N_8260.m
Data File	: VE250307A01.D	Operator	: ELAINE:PID
Date Inj'd	: 3/7/2025 6:59 am	Instrument	: Elaine
Sample	: WG2037848-2	Quant Date	: 3/7/2025 7:25 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 349567



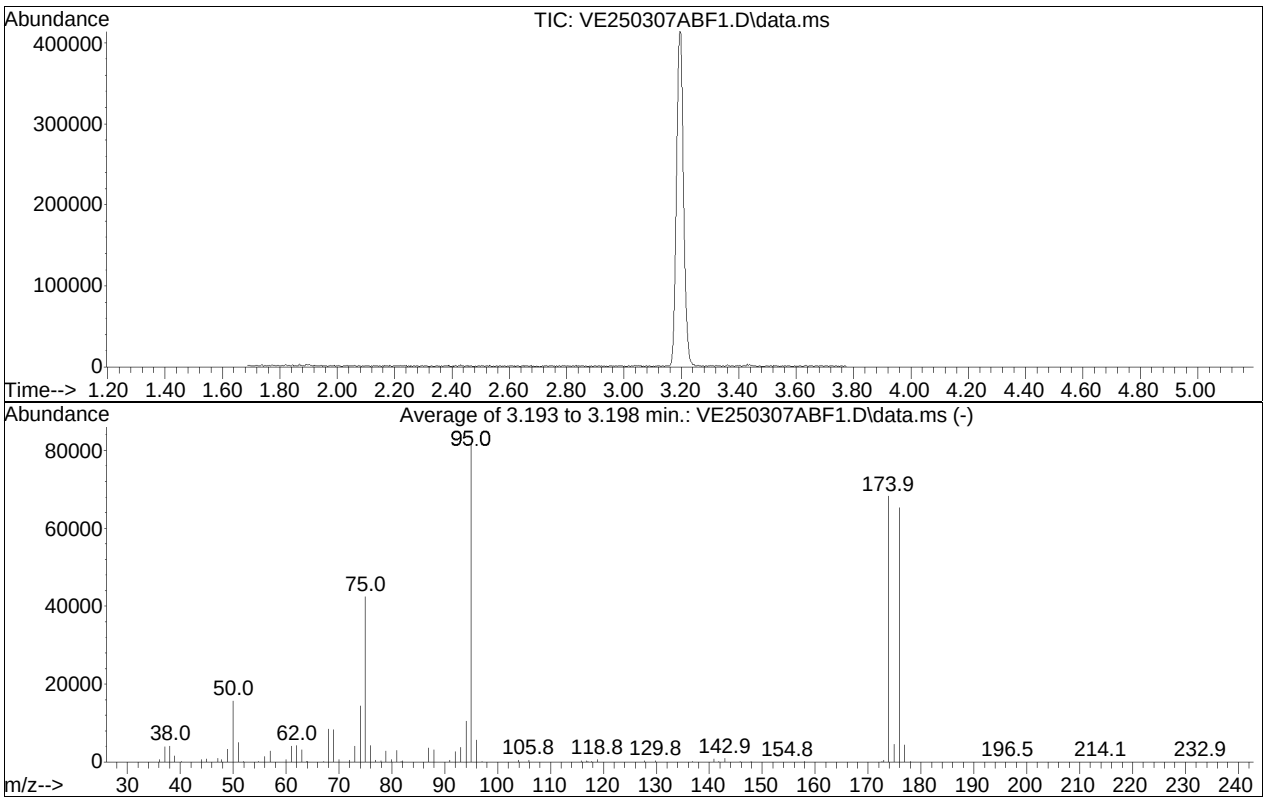
Manual Peak Response = 309158 M6

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

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307ABF1.D
Acq On : 7 Mar 2025 6:45 am
Operator : ELAINE:PID
Sample : WG2037848-1
Misc : WG2037848
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025



AutoFind: Scans 541, 542, 543; Background Corrected with Scan 527

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	15760	PASS
75	95	30	60	51.8	42509	PASS
95	95	100	100	100.0	81995	PASS
96	95	5	9	6.8	5575	PASS
173	174	0.00	2	0.7	491	PASS
174	95	50	100	83.3	68331	PASS
175	174	5	9	6.7	4584	PASS
176	174	95	101	95.7	65411	PASS
177	176	5	9	6.8	4464	PASS

Volatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A05.D
Acq On : 7 Mar 2025 8:37 am
Operator : ELAINE:PID
Sample : WG2037848-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 07 08:57:20 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250307A\VE250307A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.764	96	338279	10.000	ug/L	-0.01
Standard Area 1 = 358002			Recovery = 94.49%			
63) Chlorobenzene-d5	9.280	117	246281	10.000	ug/L	0.00
Standard Area 1 = 268415			Recovery = 91.75%			
84) 1,4-Dichlorobenzene-d4	12.032	152	137104	10.000	ug/L	0.00
Standard Area 1 = 143026			Recovery = 95.86%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.969	113	93343	10.111	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%			
47) 1,2-Dichloroethane-d4	5.483	65	100827	10.317	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.17%			
64) Toluene-d8	7.443	98	318021	9.760	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.60%			
88) 4-Bromofluorobenzene	10.799	95	123359	11.243	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.43%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.487	85	40	N.D.		
3) Chloromethane	1.693	50	194	N.D.		
4) Vinyl chloride	1.843	62	75	N.D.		
5) Bromomethane	2.058	94	863M3	0.096	ug/L	
6) Chloroethane	2.181	64	49	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.738	96	42	N.D.		
11) Carbon disulfide	2.791	76	1275	N.D.		
12) Freon-113	2.760	101	40	N.D.		
15) Methylene chloride	3.296	84	299	N.D.		
17) Acetone	3.371	43	1279M3	0.945	ug/L	
18) trans-1,2-Dichloroethene	3.472	96	45	N.D.		
19) Methyl acetate	3.445	43	188	N.D.		
21) Methyl tert-butyl ether	3.656	73	50	N.D.		
25) 1,1-Dichloroethane	4.047	63	45	N.D.		
30) cis-1,2-Dichloroethene	4.495	96	40	N.D.		
33) Bromochloromethane	4.600	128	43	N.D.		
34) Cyclohexane	4.736	56	50	N.D.		
35) Chloroform	4.785	83	73	N.D.		
37) Carbon tetrachloride	4.921	117	48	N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A05.D
Acq On : 7 Mar 2025 8:37 am
Operator : ELAINE:PID
Sample : WG2037848-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 07 08:57:20 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250307A\VE250307A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	5.022	97	52	N.D.		
42) 2-Butanone	5.162	43	105	N.D.		
45) Benzene	5.368	78	48	N.D.		
48) 1,2-Dichloroethane	5.562	62	120	N.D.		
51) Methyl cyclohexane	5.931	83	61	N.D.		
52) Trichloroethene	0.000		0	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	7.194	75	47	N.D.		
65) Toluene	7.416	92	53	N.D.		
66) 4-Methyl-2-pentanone	7.936	58	55	N.D.		
67) Tetrachloroethene	7.945	166	164	N.D.		
69) trans-1,3-Dichloropropene	7.981	75	86	N.D.		
72) 1,1,2-Trichloroethane	8.162	83	42	N.D.		
73) Chlorodibromomethane	8.366	129	66	N.D.		
75) 1,2-Dibromoethane	8.746	107	101	N.D.		
77) 2-Hexanone	8.918	43	106	N.D.		
78) Chlorobenzene	9.307	112	48	N.D.		
79) Ethylbenzene	9.343	91	613	N.D.		
81) p/m Xylene	9.520	106	143	N.D.		
82) o Xylene	10.076	106	160	N.D.		
83) Styrene	10.162	104	171	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	10.482	105	43	N.D.		
92) 1,1,2,2-Tetrachloroethane	11.165	83	51	N.D.		
105) 1,3-Dichlorobenzene	11.971	146	96	N.D.		
106) 1,4-Dichlorobenzene	12.050	146	47	N.D.		
109) 1,2-Dichlorobenzene	12.464	146	57	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d	
114) 1,2,4-Trichlorobenzene	13.883	180	527	N.D.		
116) 1,2,3-Trichlorobenzene	14.354	180	536	N.D.		

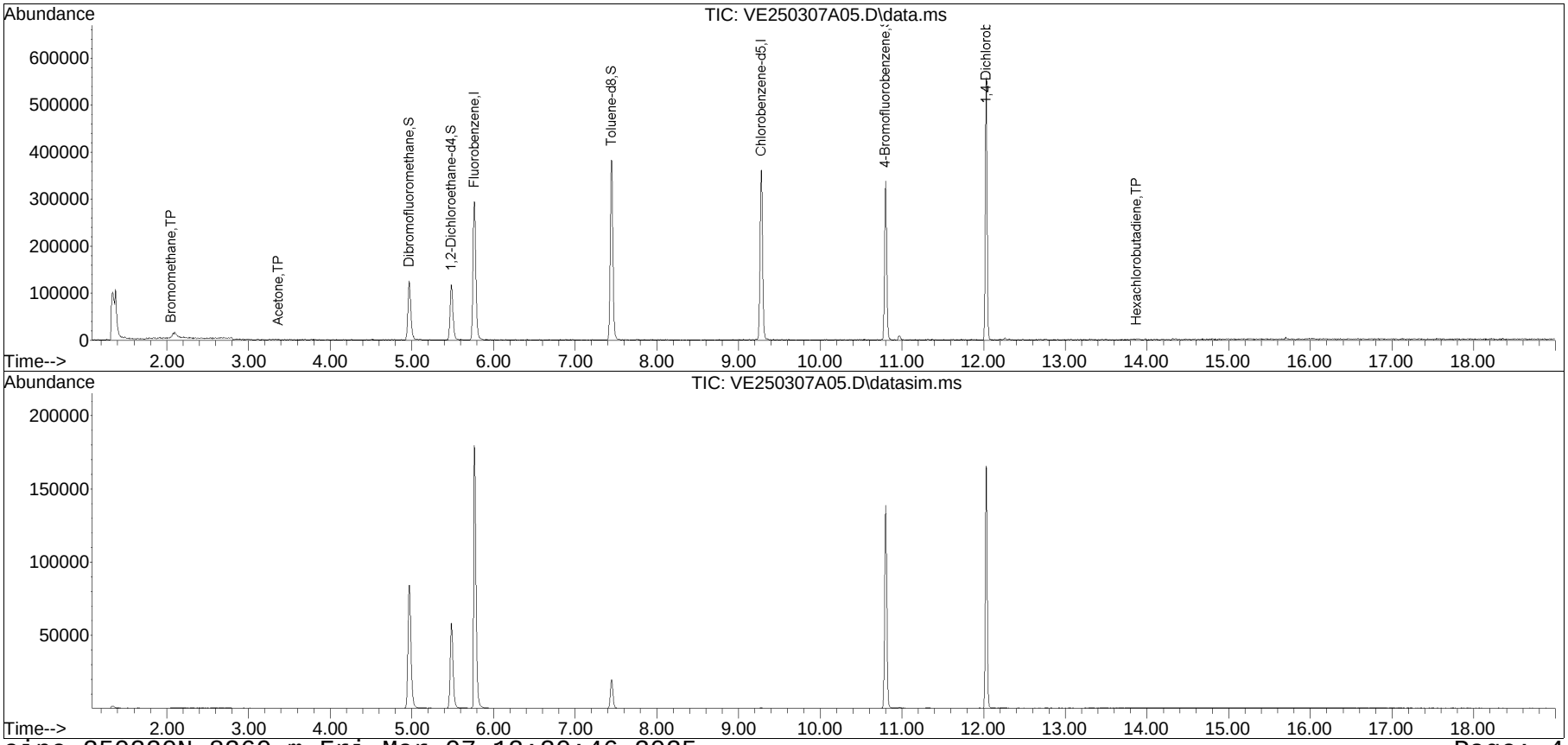
(#) = qualifier out of range (m) = manual integration (+) = signals summed

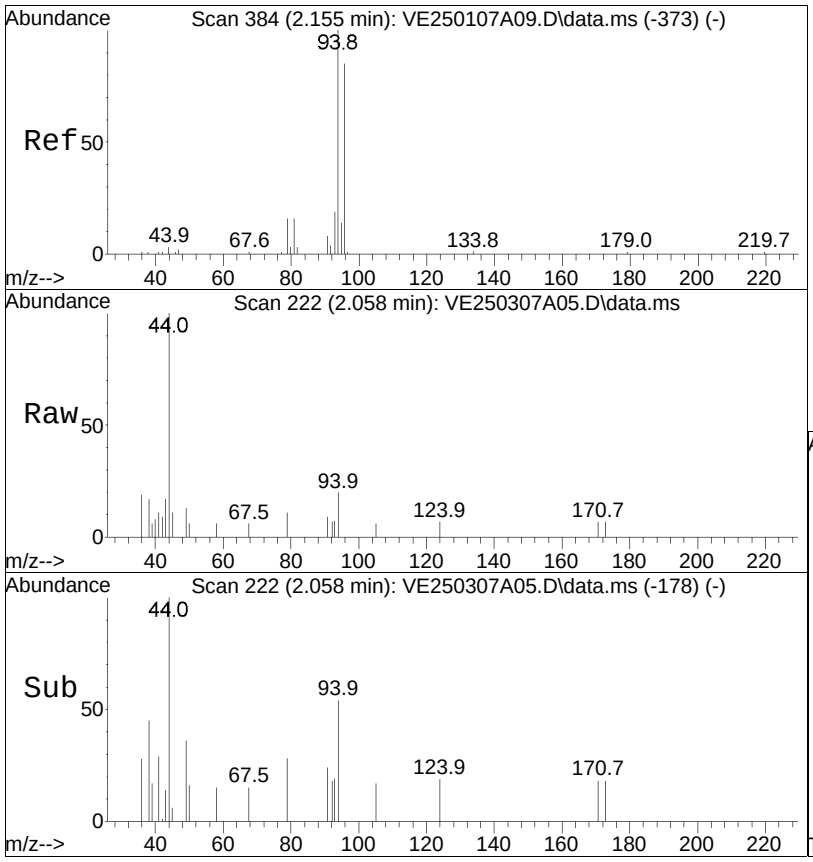
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A05.D
Acq On : 7 Mar 2025 8:37 am
Operator : ELAINE:PID
Sample : WG2037848-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 07 08:57:20 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

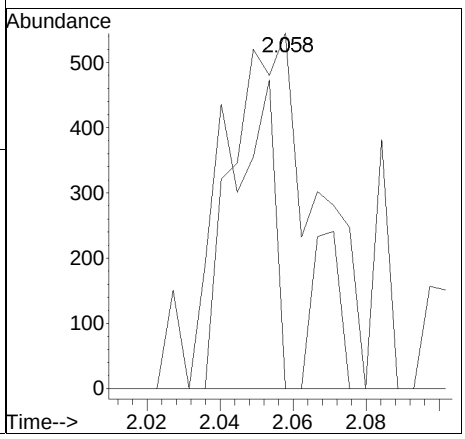


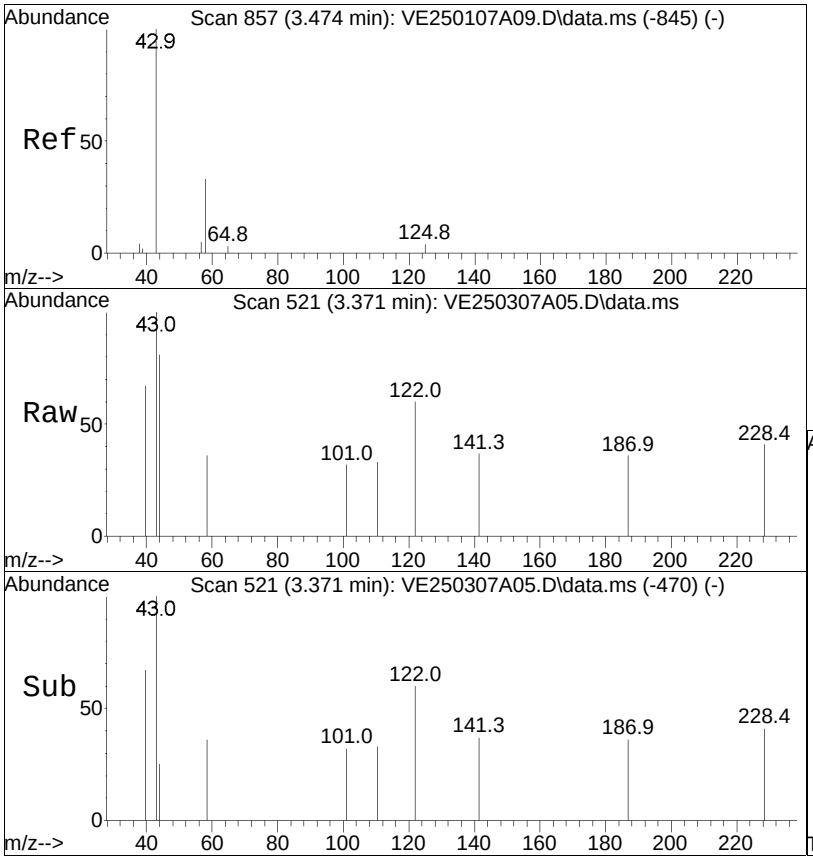


#5
Bromomethane
Concen: 0.10 ug/L M3
RT: 2.058 min Scan# 222
Delta R.T. -0.008 min
Lab File: VE250307A05.D
Acq: 7 Mar 2025 8:37 am

Tgt Ion: 94 Resp: 863

Ion	Ratio	Lower	Upper
94	100		
96	7.6	71.2	111.2#

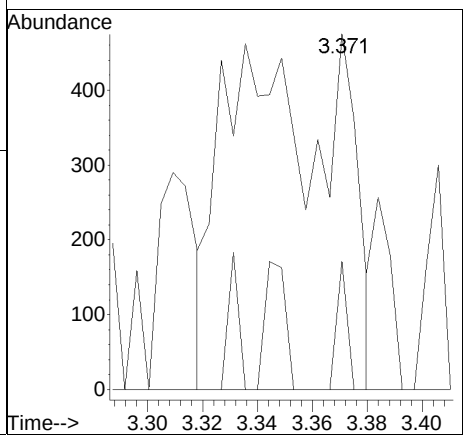




#17
Acetone
Concen: 0.95 ug/L M3
RT: 3.371 min Scan# 521
Delta R.T. 0.022 min
Lab File: VE250307A05.D
Acq: 7 Mar 2025 8:37 am

Tgt Ion: 43 Resp: 1279

Ion	Ratio	Lower	Upper
43	100		
58	3.8	26.6	40.0#

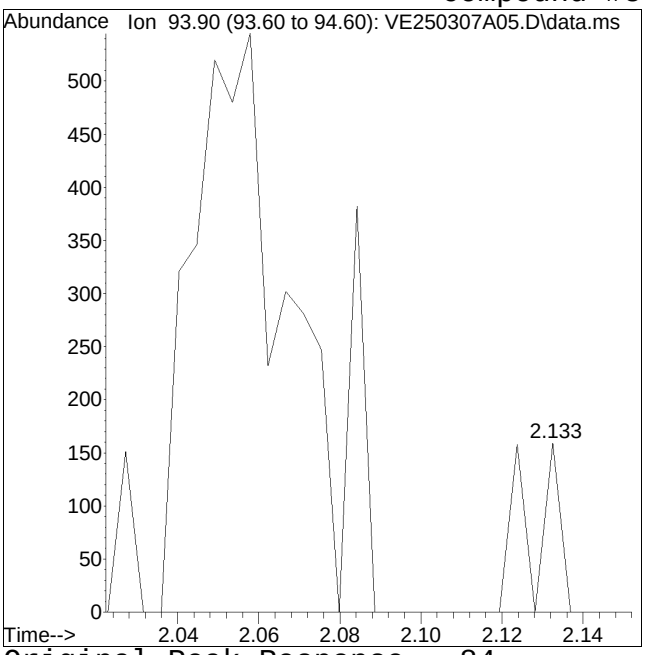


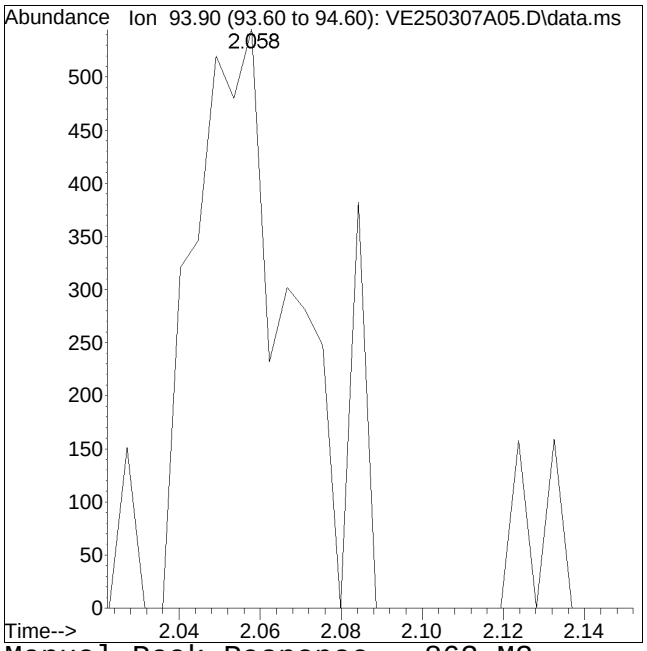
Manual Integration Report

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A05.D
Date Inj'd : 3/7/2025 8:37 am
Sample : WG2037848-5,31,10,10

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/7/2025 8:56 am

Compound #5: Bromomethane





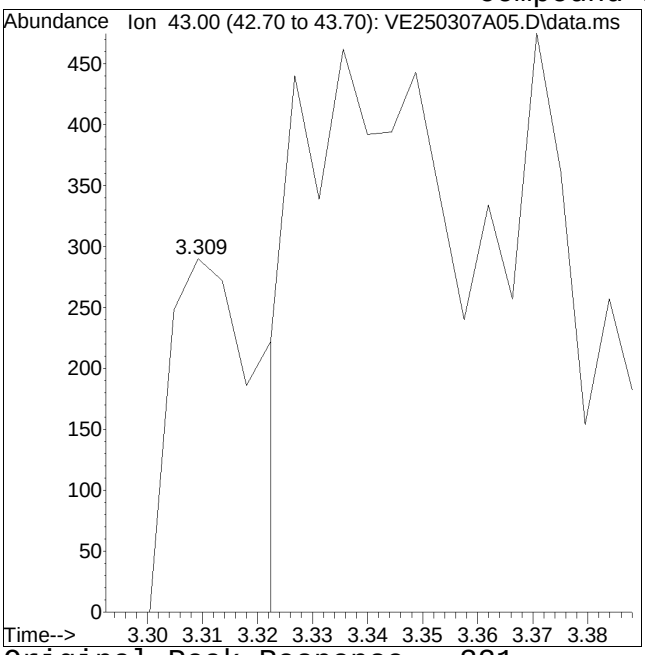
Original Peak Response = 84 Manual Peak Response = 863 M3

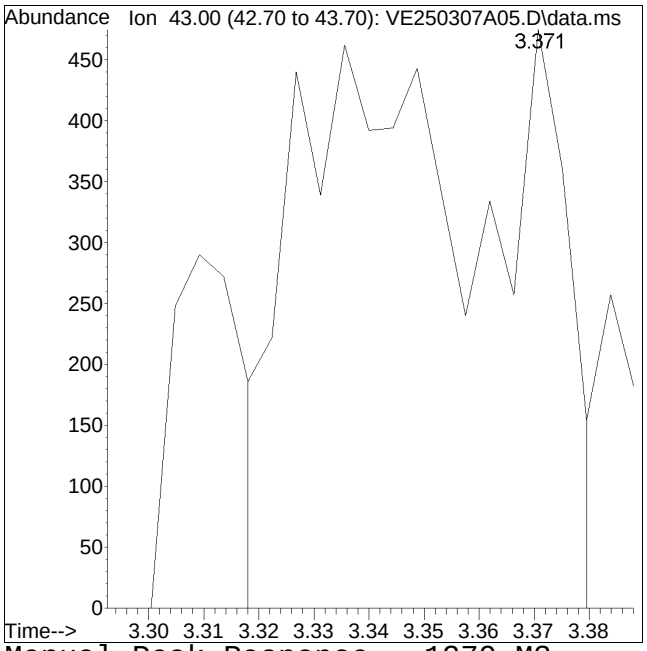
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\Elaine\2025\250307A\ QMethod : Elaine_250220N_8260.m
Data File : VE250307A05.D Operator : ELAINE:PID
Date Inj'd : 3/7/2025 8:37 am Instrument : Elaine
Sample : WG2037848-5,31,10,10 Quant Date : 3/7/2025 8:56 am

Compound #17: Acetone





Original Peak Response = 321 Manual Peak Response = 1279 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Acq On : 7 Mar 2025 6:59 am
Operator : ELAINE:PID
Sample : WG2037848-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.764	96	358002	10.000	ug/L	-0.01
63) Chlorobenzene-d5	9.276	117	268415	10.000	ug/L	0.00
84) 1,4-Dichlorobenzene-d4	12.033	152	143026	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	4.960	113	97032	9.931	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.31%			
47) 1,2-Dichloroethane-d4	5.478	65	109342	10.572	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.72%			
64) Toluene-d8	7.438	98	365558	10.293	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.93%			
88) 4-Bromofluorobenzene	10.799	95	126425	11.045	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.45%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.509	85	70228	7.624	ug/L	99
3) Chloromethane	1.689	50	76983	9.271	ug/L	99
4) Vinyl chloride	1.755	62	94750	8.787	ug/L	99
5) Bromomethane	2.049	94	60493	6.355	ug/L	97
6) Chloroethane	2.159	64	66812	8.092	ug/L	97
7) Trichlorofluoromethane	2.295	101	140544	7.560	ug/L	99
10) 1,1-Dichloroethene	2.760	96	79636	7.919	ug/L	93
11) Carbon disulfide	2.787	76	230352	8.127	ug/L	99
12) Freon-113	2.796	101	76134	7.886	ug/L	92
15) Methylene chloride	3.301	84	89241	10.586	ug/L	96
17) Acetone	3.331	43	17745	12.389	ug/L	95
18) trans-1,2-Dichloroethene	3.450	96	90422	11.467	ug/L	97
19) Methyl acetate	3.454	43	38742	10.848	ug/L	97
21) Methyl tert-butyl ether	3.538	73	197775	10.637	ug/L #	98
25) 1,1-Dichloroethane	4.016	63	163535	11.223	ug/L	99
30) cis-1,2-Dichloroethene	4.526	96	98052	10.670	ug/L	93
33) Bromochloromethane	4.714	128	45465	10.845	ug/L	96
34) Cyclohexane	4.723	56	148335	10.948	ug/L	97
35) Chloroform	4.793	83	159455	11.048	ug/L	100
37) Carbon tetrachloride	4.925	117	115121M6	10.779	ug/L	
40) 1,1,1-Trichloroethane	4.982	97	128487	10.824	ug/L	99
42) 2-Butanone	5.070	43	27193	13.626	ug/L #	81
45) Benzene	5.347	78	340169	10.706	ug/L	98
48) 1,2-Dichloroethane	5.549	62	109610	10.922	ug/L	98

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Acq On : 7 Mar 2025 6:59 am
Operator : ELAINE:PID
Sample : WG2037848-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Methyl cyclohexane	5.927	83	138904	9.842	ug/L	89
52) Trichloroethene	5.936	95	87092	11.295	ug/L	99
55) 1,2-Dichloropropane	6.474	63	88318	11.812	ug/L	98
58) Bromodichloromethane	6.556	83	115160	10.718	ug/L	100
62) cis-1,3-Dichloropropene	7.239	75	130346	11.206	ug/L	98
65) Toluene	7.502	92	210766	10.499	ug/L	99
66) 4-Methyl-2-pentanone	7.932	58	16530	9.655	ug/L	91
67) Tetrachloroethene	7.945	166	91691	11.873	ug/L	99
69) trans-1,3-Dichloropropene	7.990	75	103684	10.682	ug/L	97
72) 1,1,2-Trichloroethane	8.167	83	51997	10.316	ug/L	98
73) Chlorodibromomethane	8.375	129	74677	10.645	ug/L	98
75) 1,2-Dibromoethane	8.647	107	62463	10.826	ug/L	95
77) 2-Hexanone	8.932	43	27158	9.959	ug/L	98
78) Chlorobenzene	9.298	112	241828	10.590	ug/L	97
79) Ethylbenzene	9.339	91	420066	10.453	ug/L	100
81) p/m Xylene	9.524	106	331410	20.157	ug/L	98
82) o Xylene	10.072	106	327722	20.025	ug/L	100
83) Styrene	10.140	104	523494	18.779	ug/L	96
85) Bromoform	10.167	173	40962	10.105	ug/L	95
87) Isopropylbenzene	10.469	105	429598	10.889	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.055	83	69748	10.409	ug/L	94
105) 1,3-Dichlorobenzene	11.953	146	209307	10.929	ug/L	98
106) 1,4-Dichlorobenzene	12.046	146	200109	10.502	ug/L	99
109) 1,2-Dichlorobenzene	12.473	146	195094	10.844	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.262	155	10535	10.125	ug/L	95
114) 1,2,4-Trichlorobenzene	13.892	180	125005	11.019	ug/L	98
116) 1,2,3-Trichlorobenzene	14.354	180	109803	10.557	ug/L	98

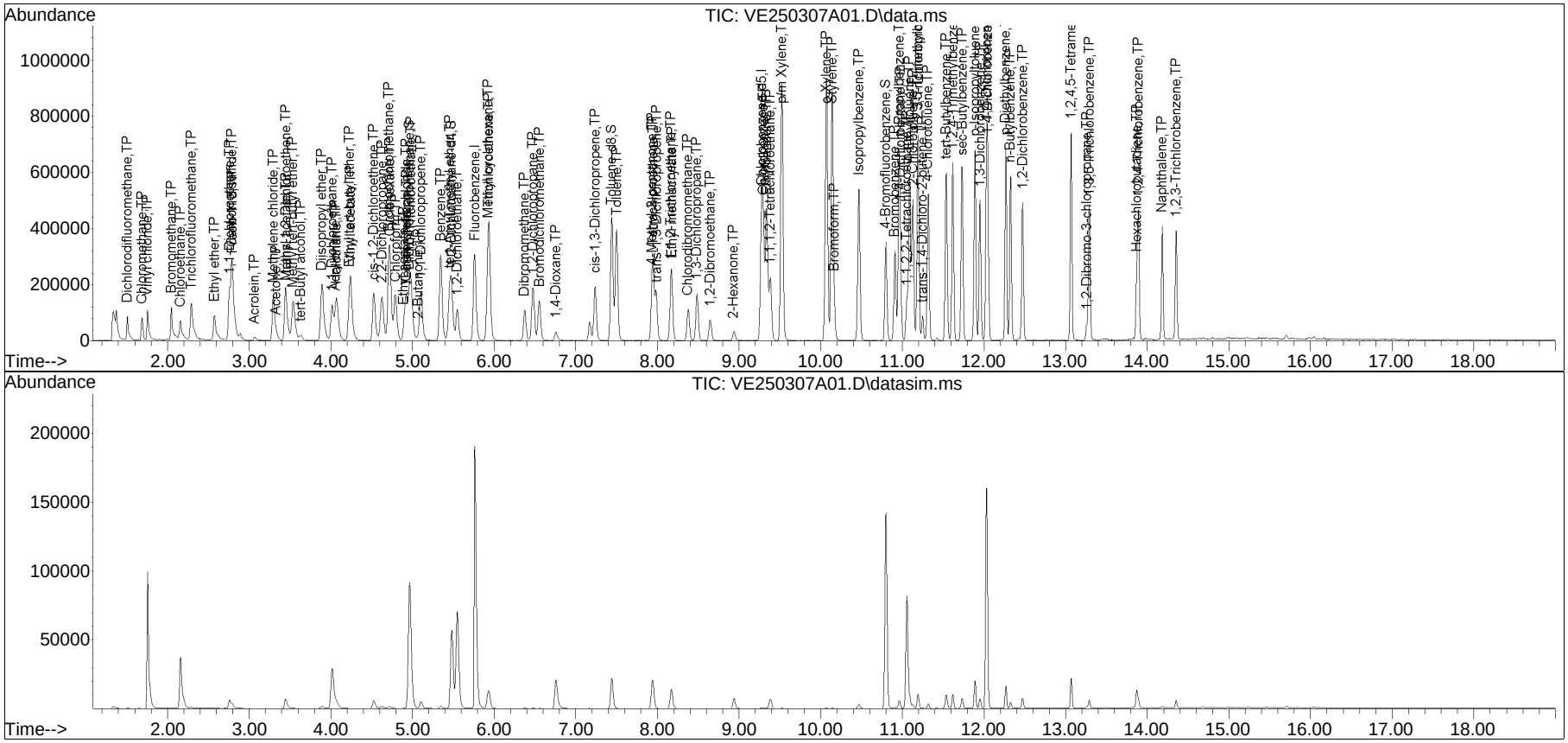
(#) = qualifier out of range (m) = manual integration (+) = signals summed

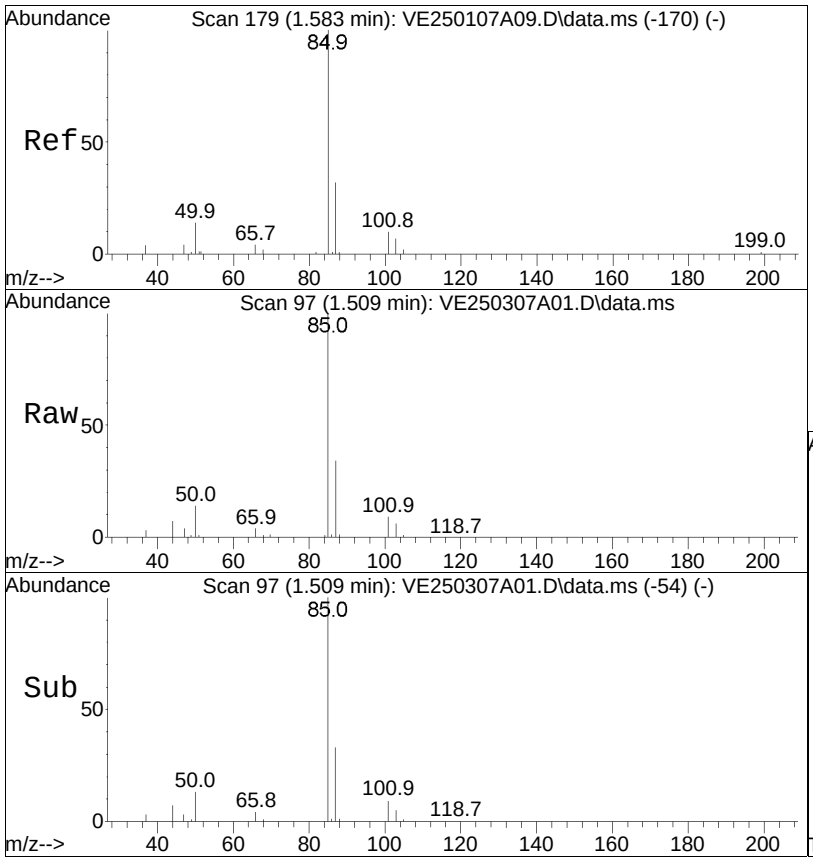
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Acq On : 7 Mar 2025 6:59 am
Operator : ELAINE:PID
Sample : WG2037848-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:26:44 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

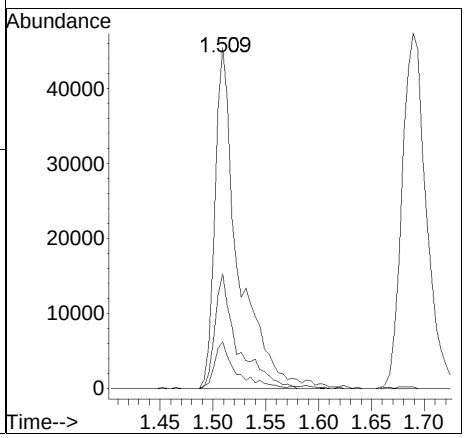


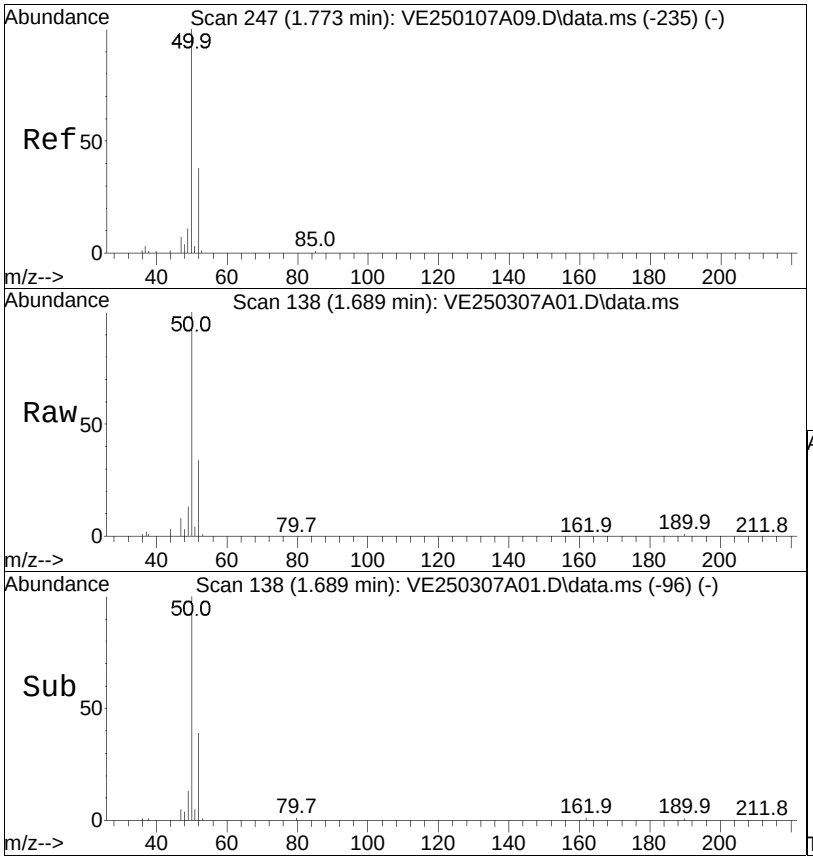


#2
Dichlorodifluoromethane
Concen: 7.62 ug/L
RT: 1.509 min Scan# 97
Delta R.T. -0.013 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 85 Resp: 70228

Ion	Ratio	Lower	Upper
85	100		
87	32.8	21.1	43.7
50	12.4	8.3	17.1

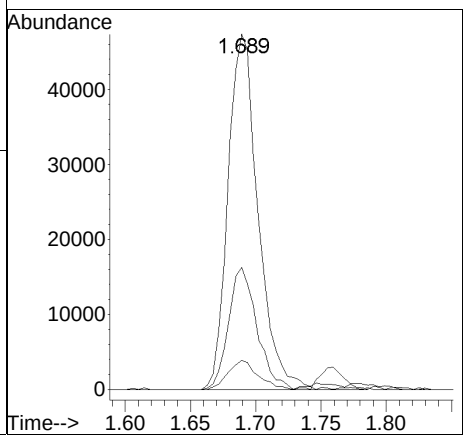


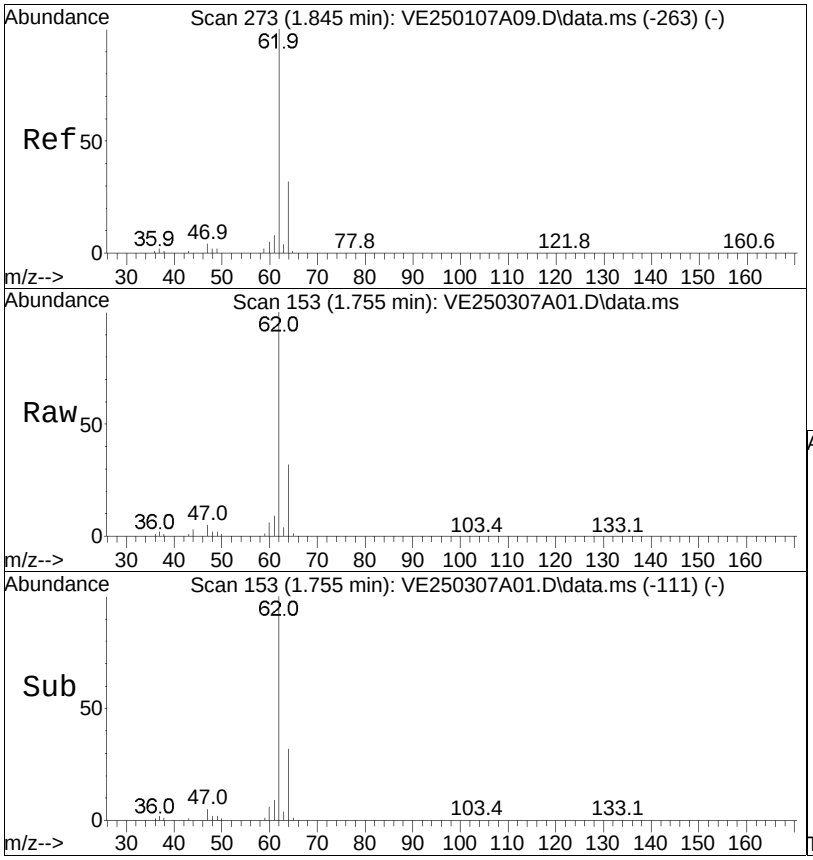


#3
Chloromethane
Concen: 9.27 ug/L
RT: 1.689 min Scan# 138
Delta R.T. -0.014 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 50 Resp: 76983

Ion	Ratio	Lower	Upper
50	100		
52	31.9	12.5	52.5
47	8.0	0.0	27.7

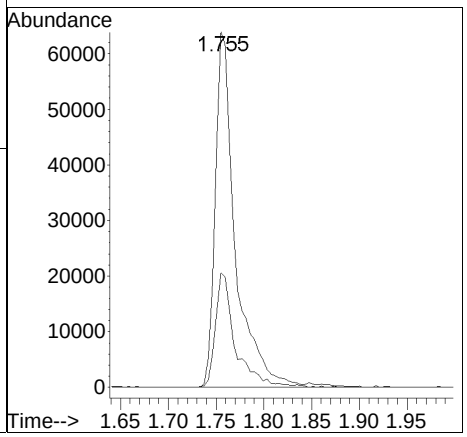


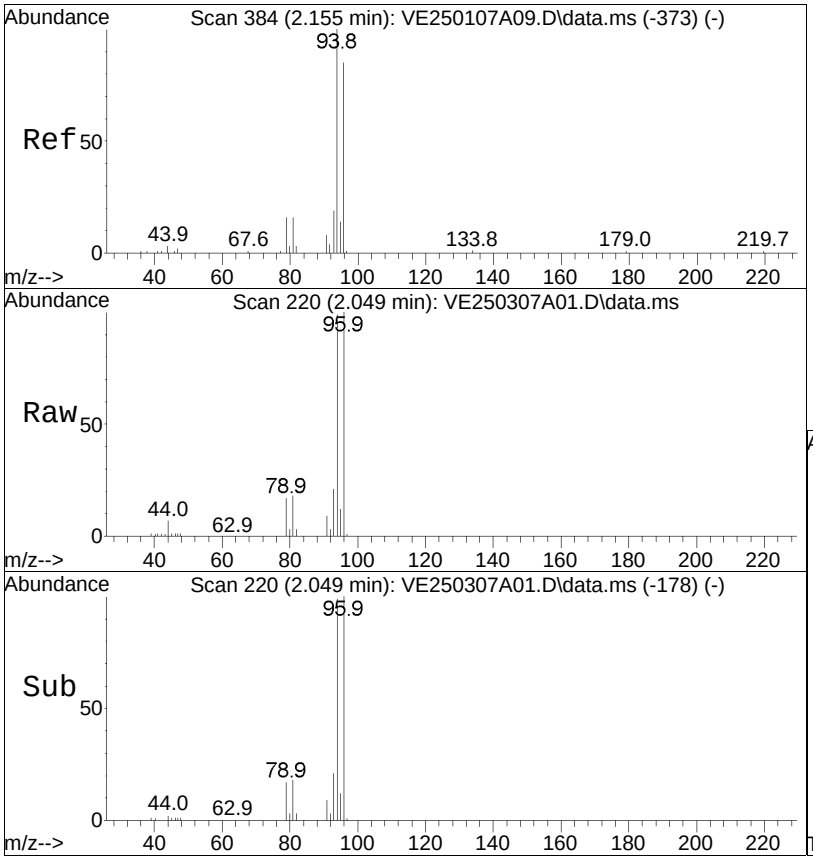


#4
Vinyl chloride
Concen: 8.79 ug/L
RT: 1.755 min Scan# 153
Delta R.T. -0.015 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 62 Resp: 94750

Ion	Ratio	Lower	Upper
62	100		
64	31.6	12.1	52.1

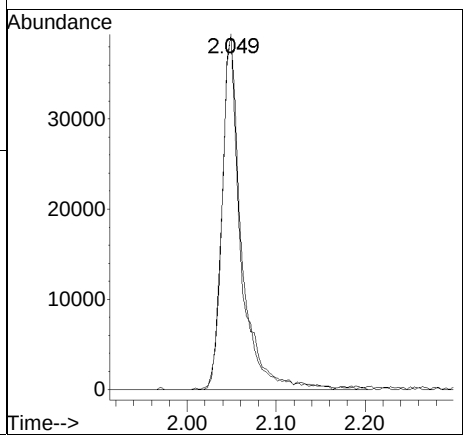


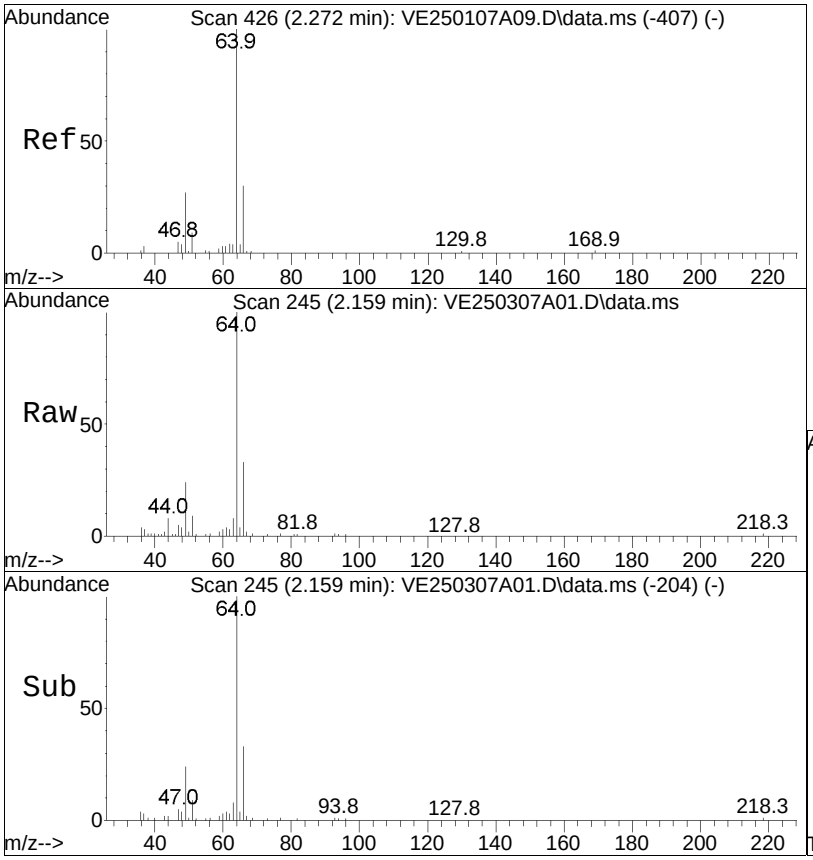


#5
Bromomethane
Concen: 6.36 ug/L
RT: 2.049 min Scan# 220
Delta R.T. -0.016 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 94 Resp: 60493

Ion	Ratio	Lower	Upper
94	100		
96	93.7	71.2	111.2

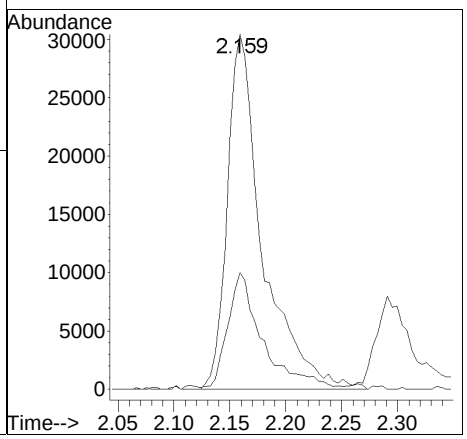


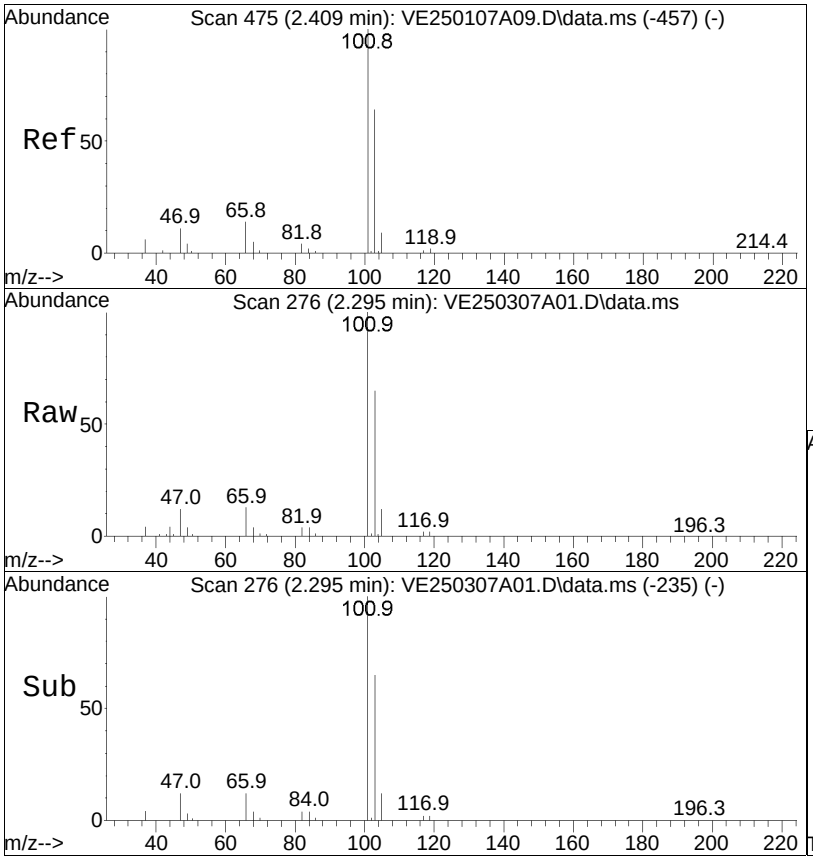


#6
Chloroethane
Concen: 8.09 ug/L
RT: 2.159 min Scan# 245
Delta R.T. -0.021 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 64 Resp: 66812

Ion	Ratio	Lower	Upper
64	100		
66	30.9	12.5	52.5

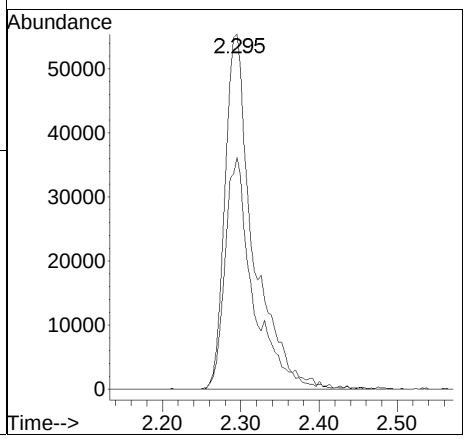


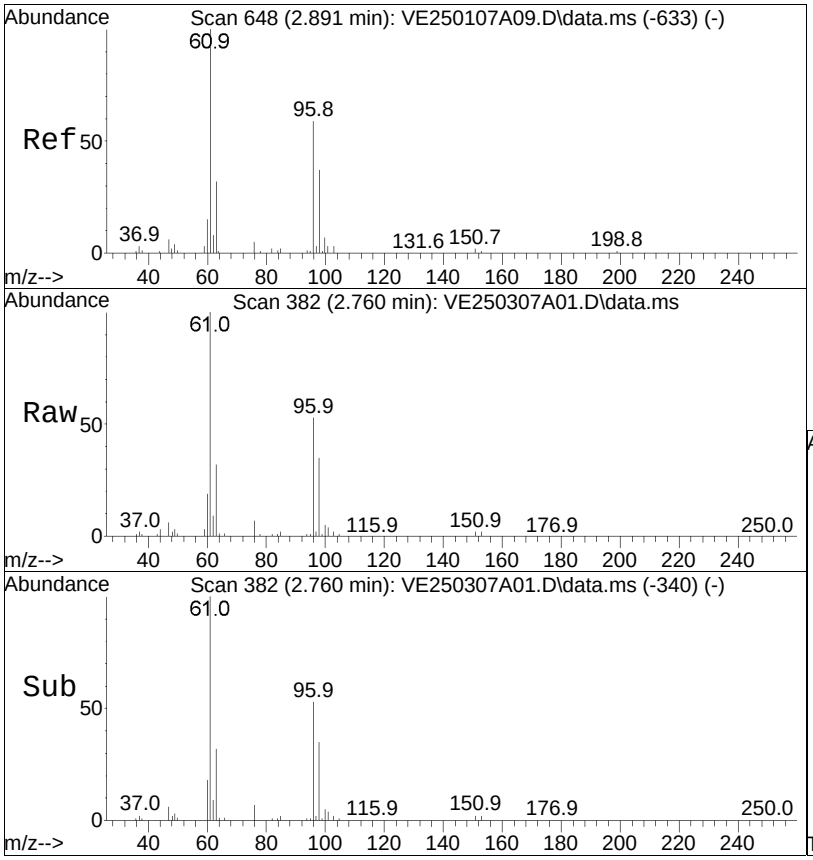


#7
Trichlorofluoromethane
Concen: 7.56 ug/L
RT: 2.295 min Scan# 276
Delta R.T. -0.019 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:101 Resp: 140544

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.4	77.0

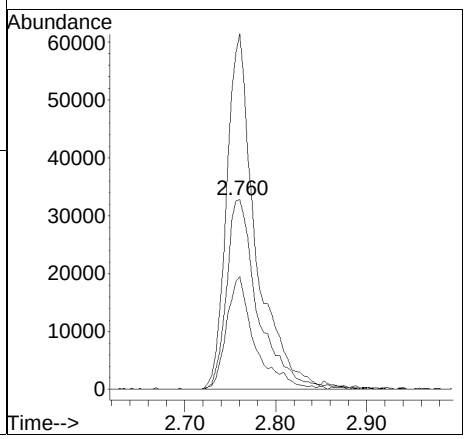


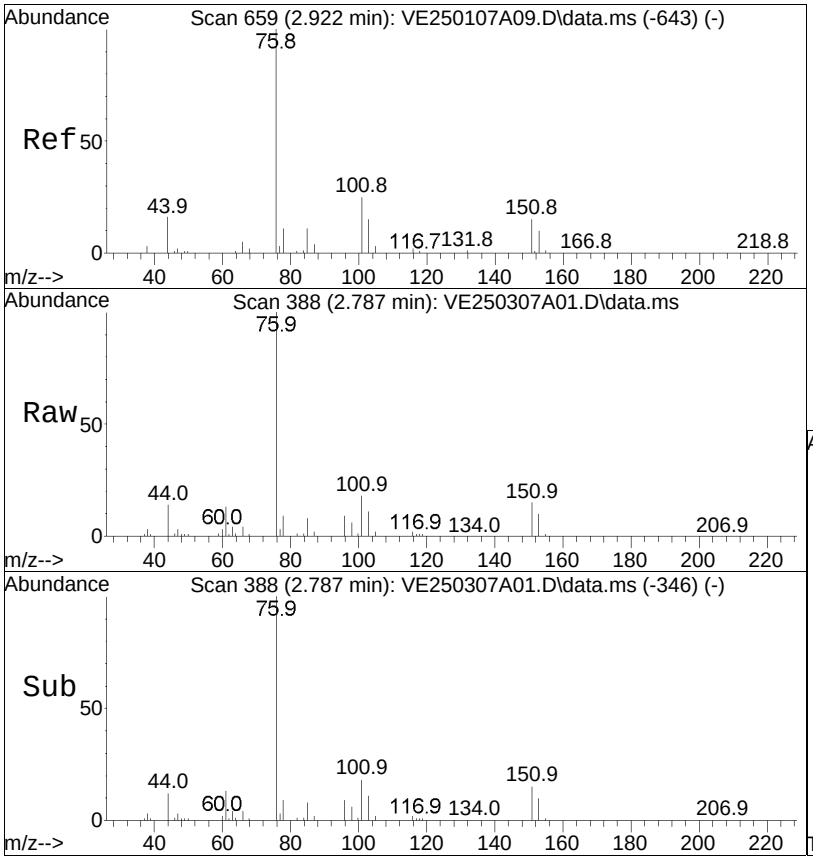


#10
1,1-Dichloroethene
Concen: 7.92 ug/L
RT: 2.760 min Scan# 382
Delta R.T. -0.016 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 96 Resp: 79636

Ion	Ratio	Lower	Upper
96	100		
61	173.0	129.0	193.6
63	53.3	41.7	62.5

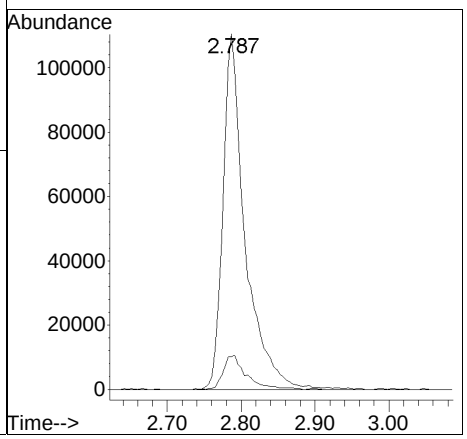


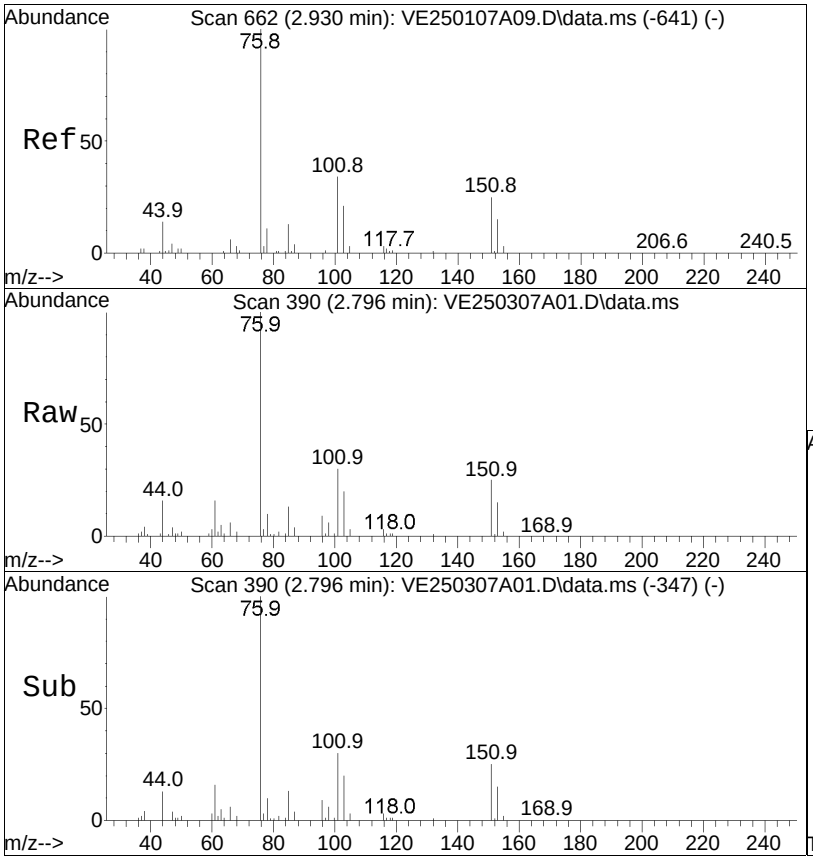


#11
Carbon disulfide
Concen: 8.13 ug/L
RT: 2.787 min Scan# 388
Delta R.T. -0.015 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 76 Resp: 230352

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.7	13.9

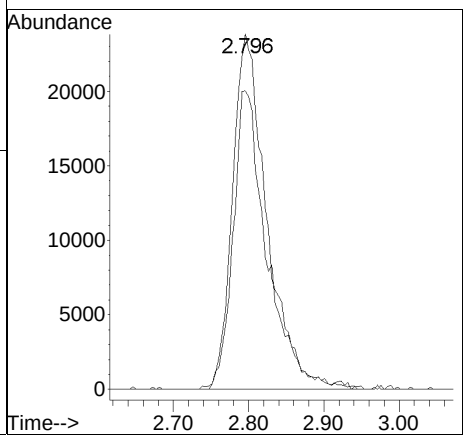


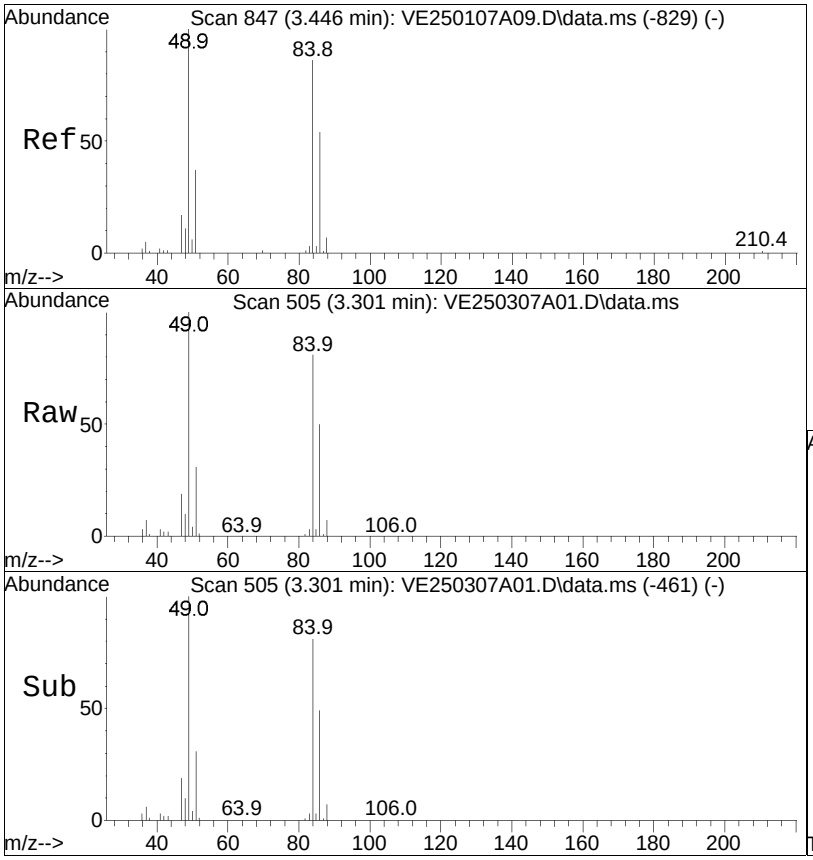


#12
Freon-113
Concen: 7.89 ug/L
RT: 2.796 min Scan# 390
Delta R.T. -0.011 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:101 Resp: 76134

Ion	Ratio	Lower	Upper
101	100		
151	82.1	60.1	90.1

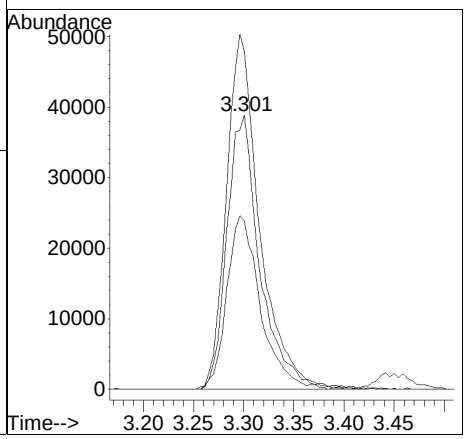


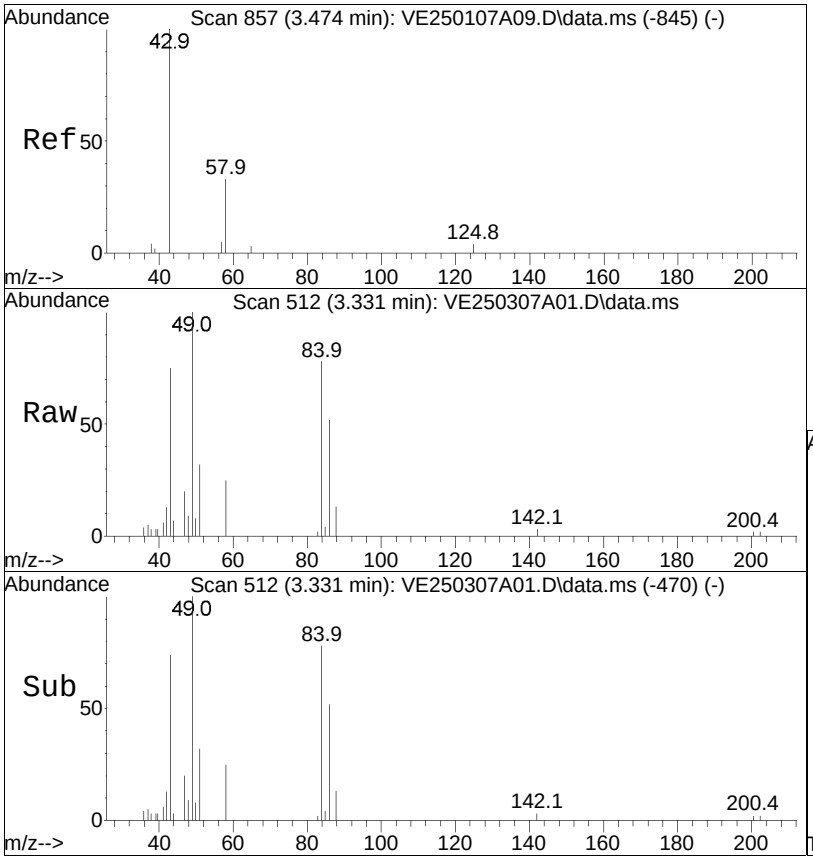


#15
Methylene chloride
Concen: 10.59 ug/L
RT: 3.301 min Scan# 505
Delta R.T. -0.009 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 84 Resp: 89241

Ion	Ratio	Lower	Upper
84	100		
86	64.3	42.1	87.3
49	129.6	79.9	165.9

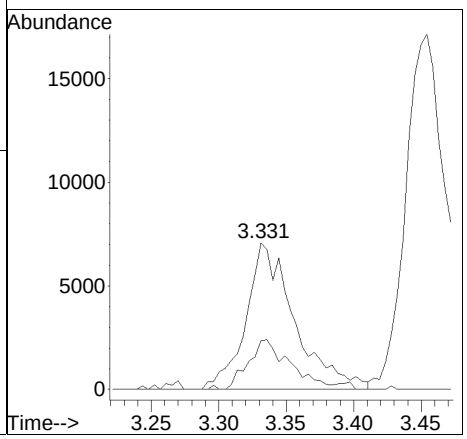


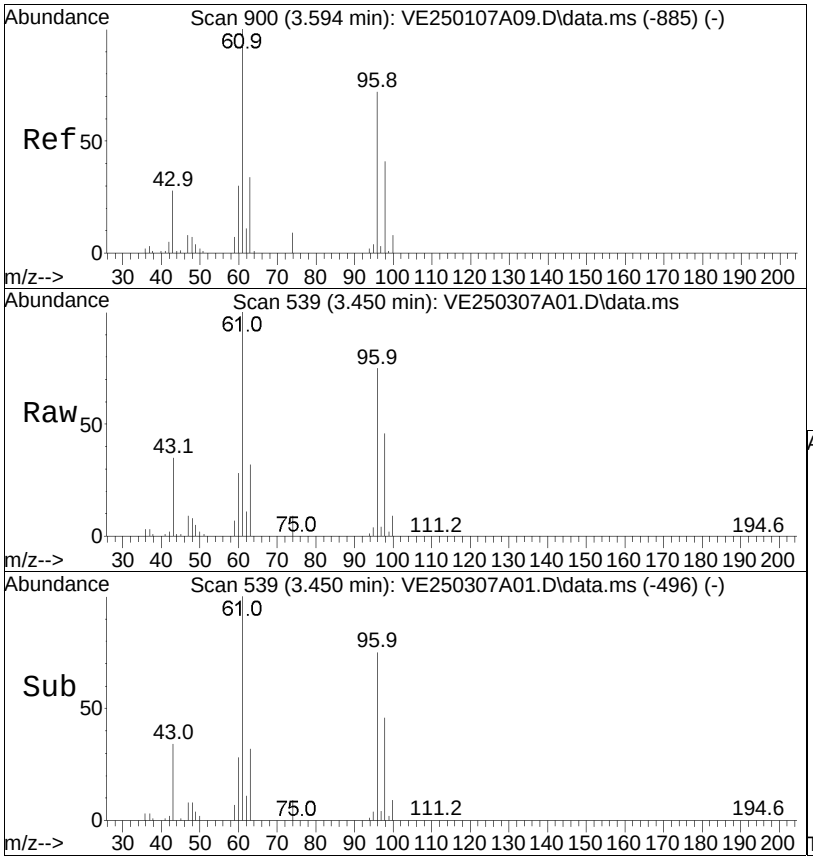


#17
Acetone
Concen: 12.39 ug/L
RT: 3.331 min Scan# 512
Delta R.T. -0.017 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 43 Resp: 17745

Ion	Ratio	Lower	Upper
43	100		
58	30.5	26.6	40.0

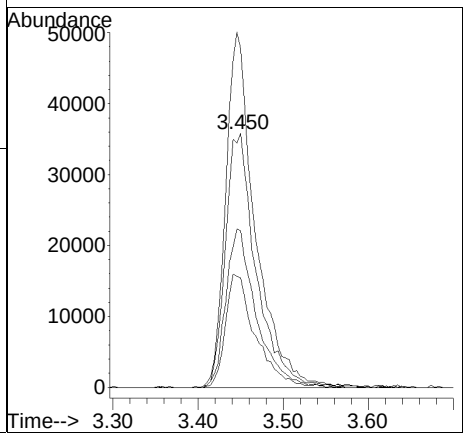


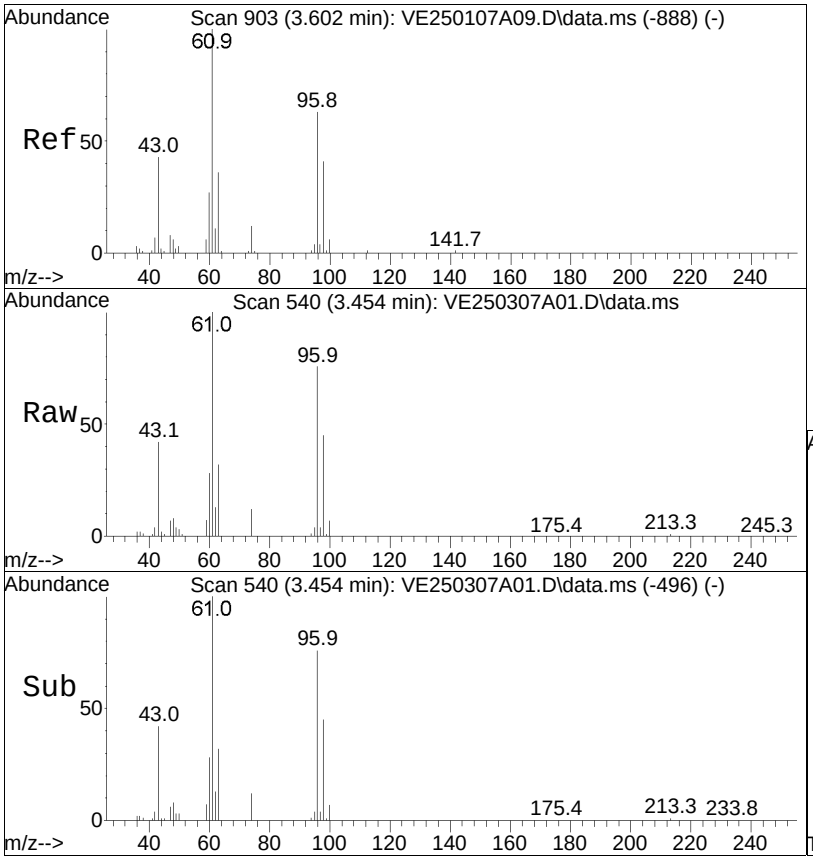


#18
trans-1,2-Dichloroethene
Concen: 11.47 ug/L
RT: 3.450 min Scan# 539
Delta R.T. -0.013 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 96 Resp: 90422

Ion	Ratio	Lower	Upper
96	100		
61	133.9	84.8	176.2
98	61.5	42.0	87.2
63	43.3	26.4	54.8

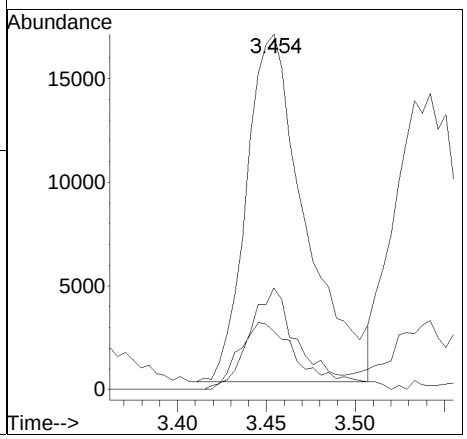


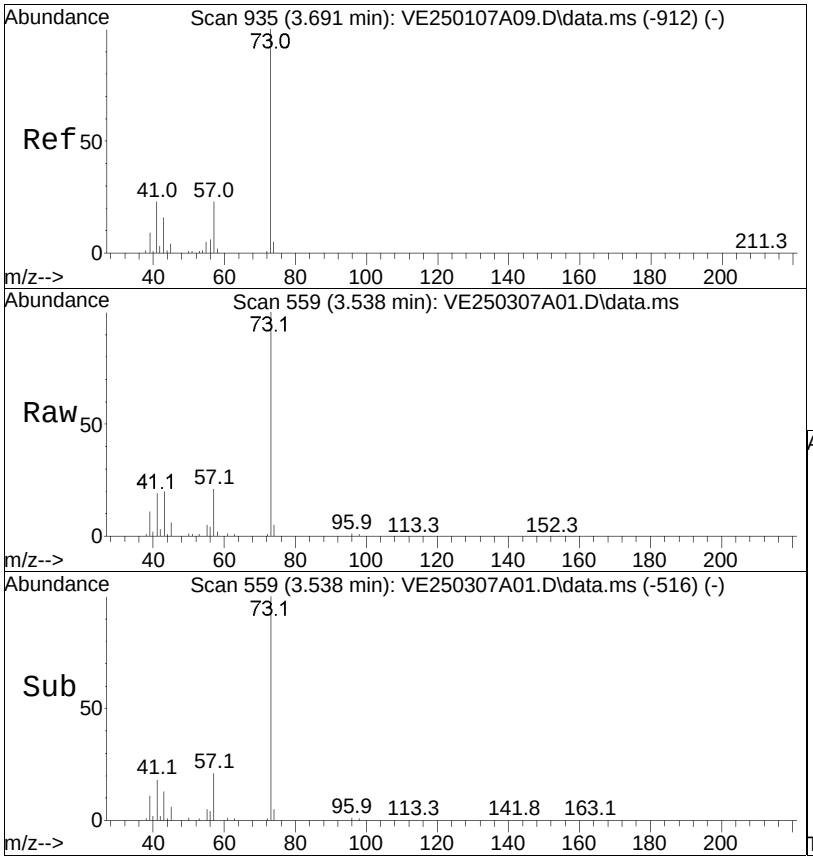


#19
Methyl acetate
Concen: 10.85 ug/L
RT: 3.454 min Scan# 540
Delta R.T. -0.009 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 43 Resp: 38742

Ion	Ratio	Lower	Upper
43	100		
74	28.3	21.0	31.4
59	20.1	16.6	24.8

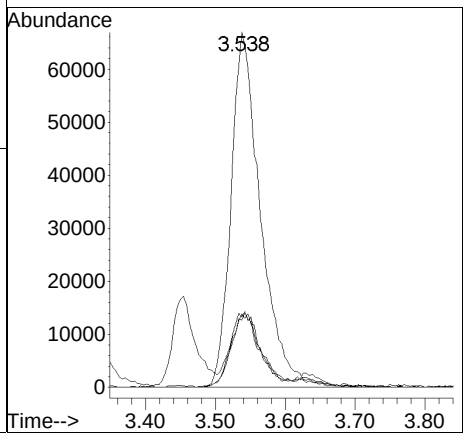


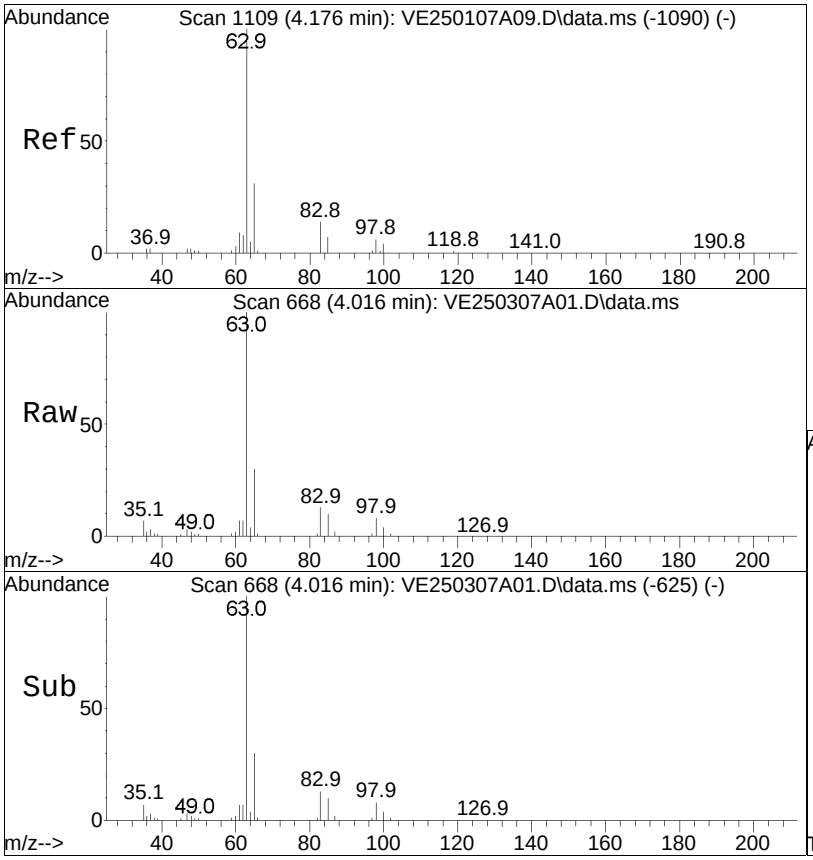


#21
Methyl tert-butyl ether
Concen: 10.64 ug/L
RT: 3.538 min Scan# 559
Delta R.T. -0.012 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 73 Resp: 197775

Ion	Ratio	Lower	Upper
73	100		
57	23.2	15.2	31.6
43	24.0	0.0	0.0#
41	23.5	14.4	30.0

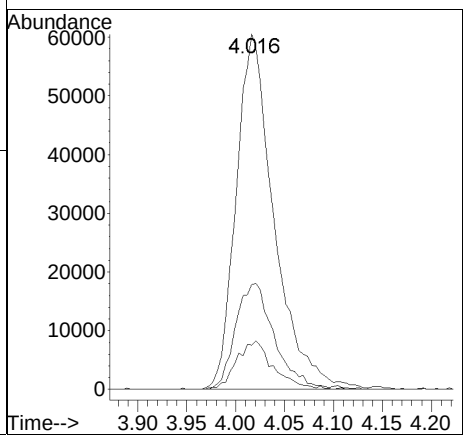


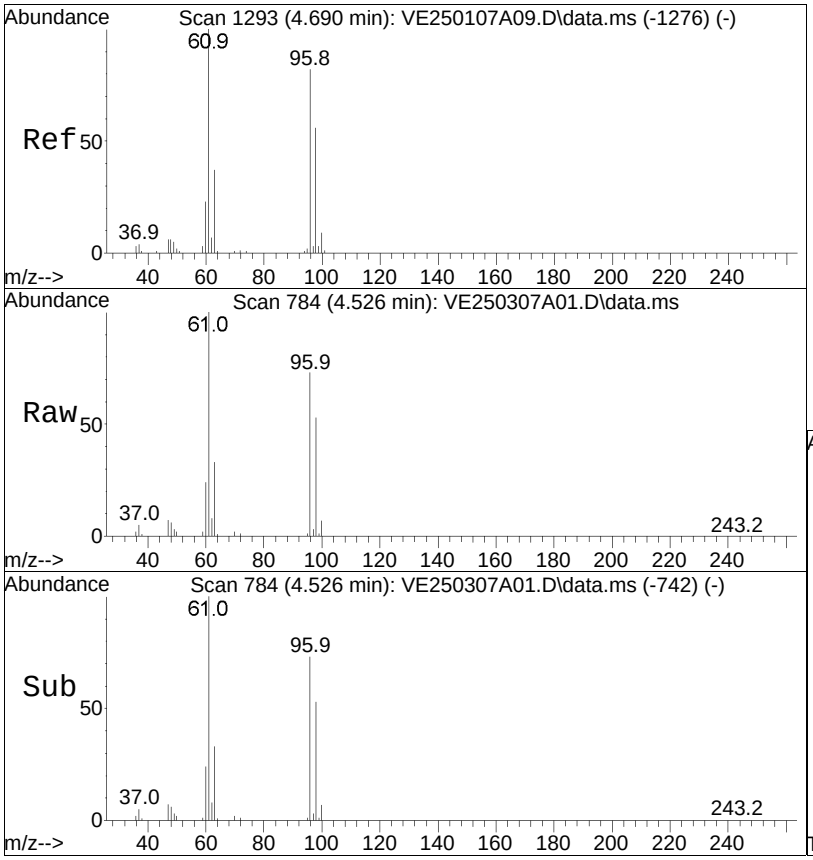


#25
1,1-Dichloroethane
Concen: 11.22 ug/L
RT: 4.016 min Scan# 668
Delta R.T. -0.013 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 63 Resp: 163535

Ion	Ratio	Lower	Upper
63	100		
65	30.8	11.7	51.7
83	13.3	0.0	33.3

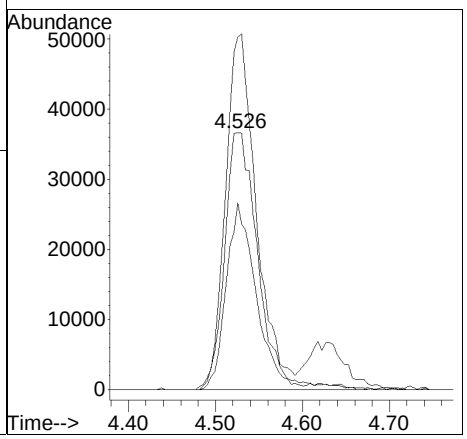


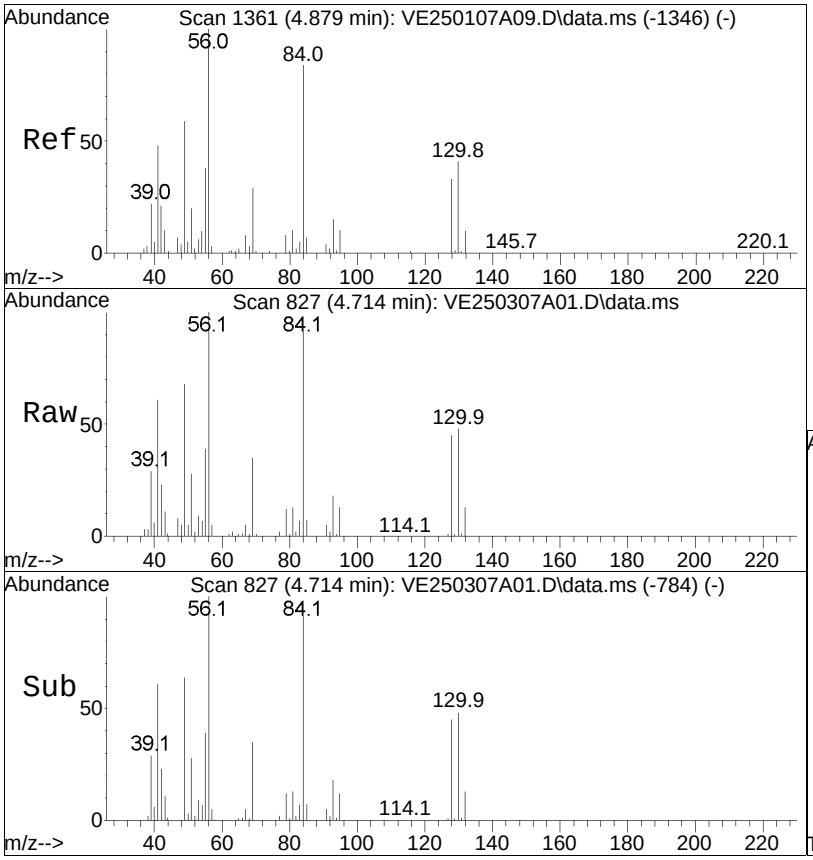


#30
cis-1,2-Dichloroethene
Concen: 10.67 ug/L
RT: 4.526 min Scan# 784
Delta R.T. -0.014 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 96 Resp: 98052

Ion	Ratio	Lower	Upper
96	100		
61	149.0	111.0	166.6
98	66.6	50.3	75.5

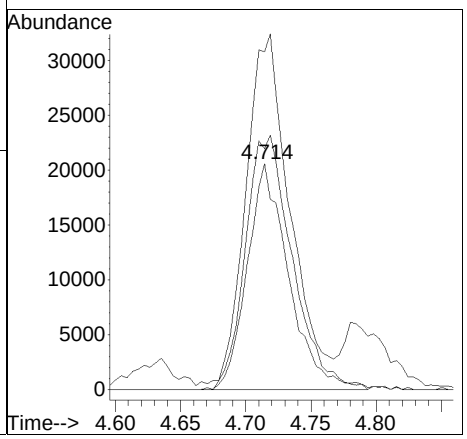


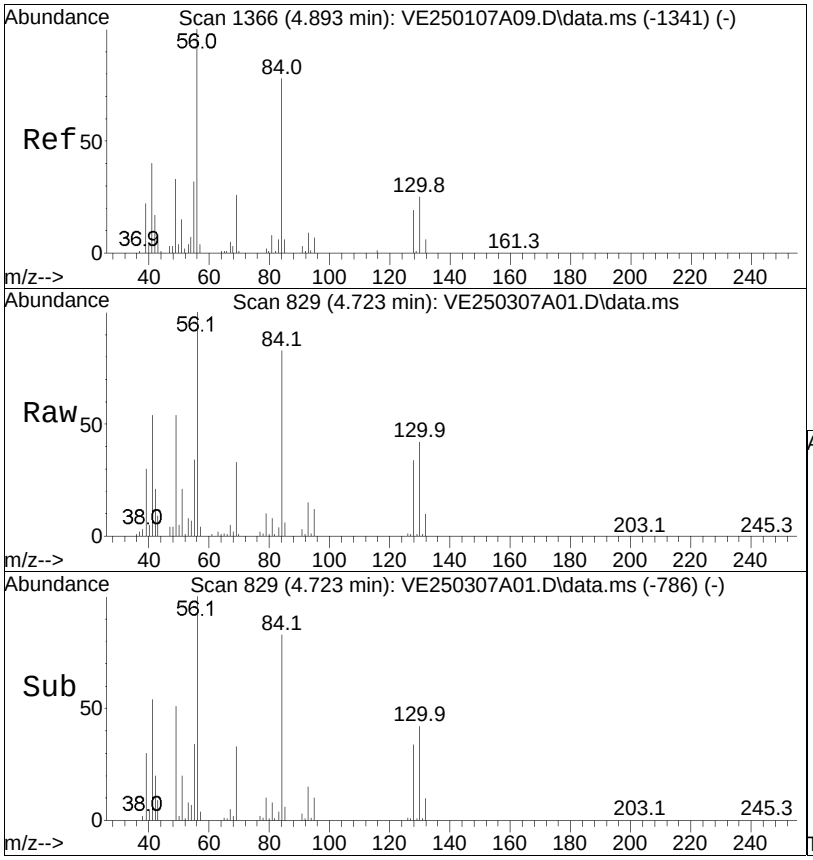


#33
Bromochloromethane
Concen: 10.84 ug/L
RT: 4.714 min Scan# 827
Delta R.T. -0.012 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:128 Resp: 45465

Ion	Ratio	Lower	Upper
128	100		
49	201.4	152.6	228.8
130	127.4	101.8	152.6

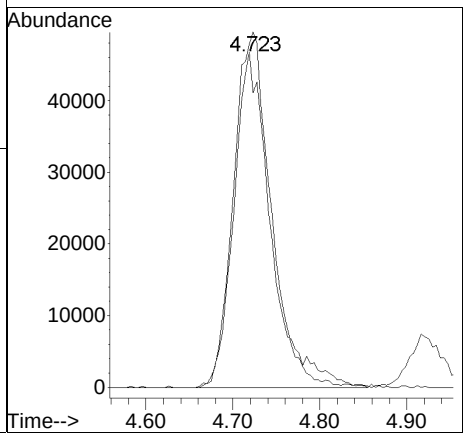


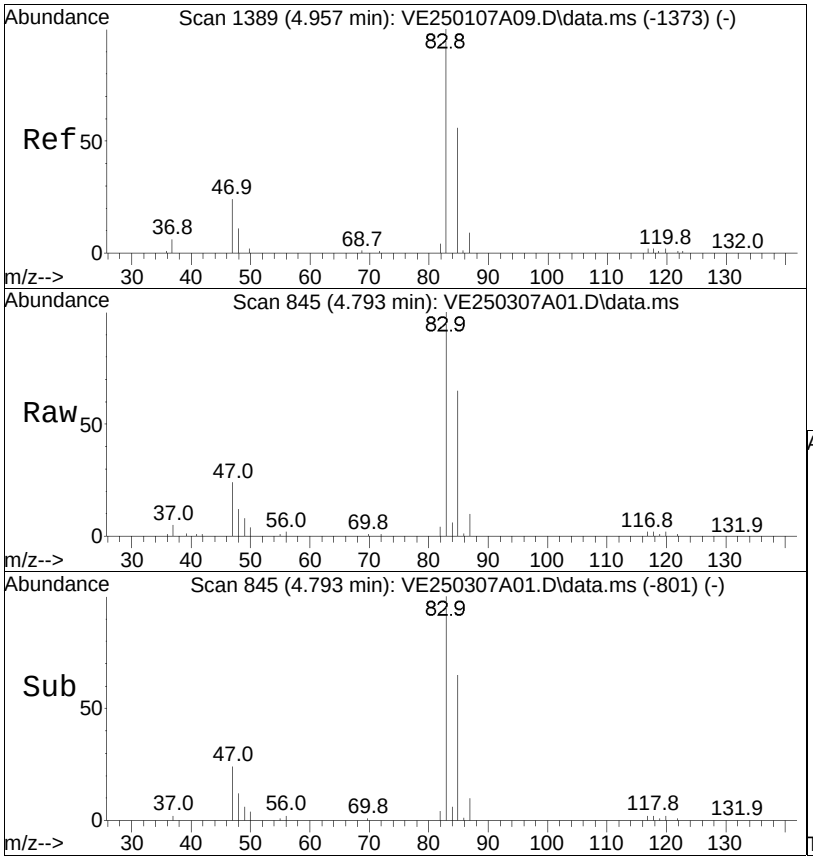


#34
Cyclohexane
Concen: 10.95 ug/L
RT: 4.723 min Scan# 829
Delta R.T. -0.011 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 56 Resp: 148335

Ion	Ratio	Lower	Upper
56	100		
84	93.5	62.9	130.7

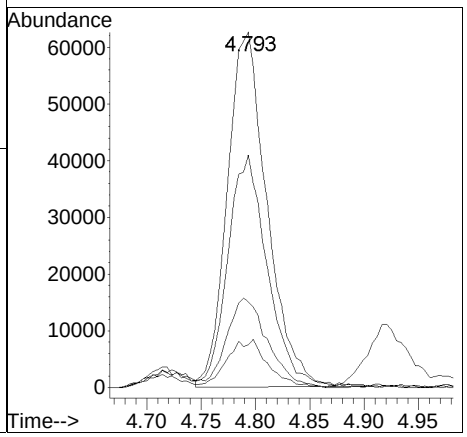


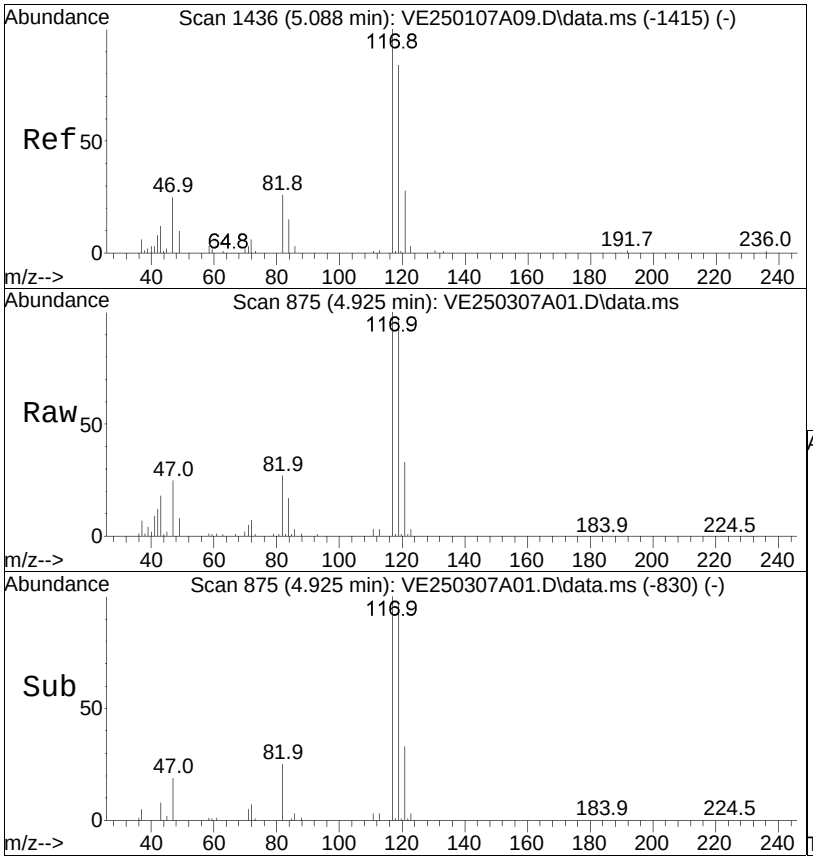


#35
Chloroform
Concen: 11.05 ug/L
RT: 4.793 min Scan# 845
Delta R.T. -0.008 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 83 Resp: 159455

Ion	Ratio	Lower	Upper
83	100		
85	65.7	42.5	88.3
47	25.8	16.8	35.0
48	13.7	9.2	19.2

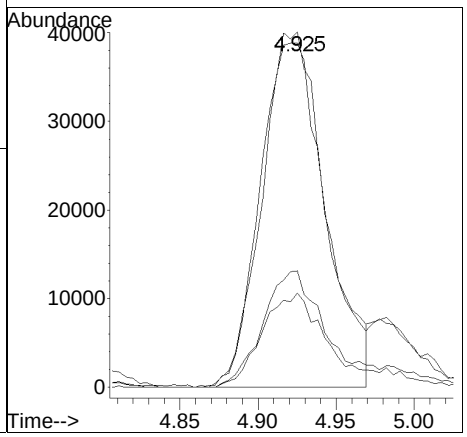


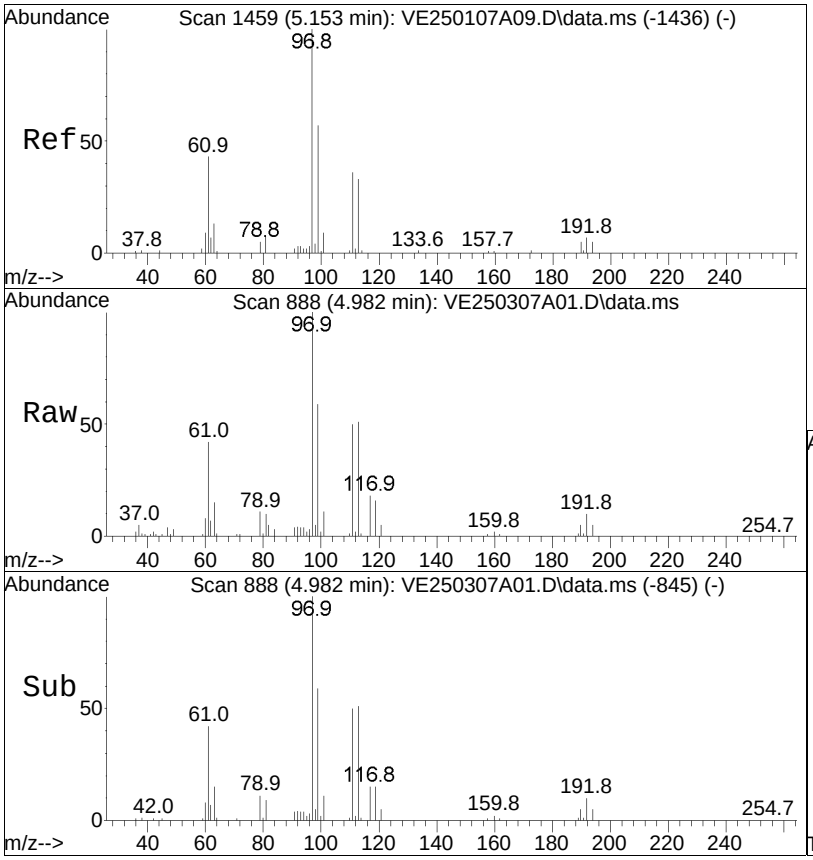


#37
Carbon tetrachloride
Concen: 10.78 ug/L M6
RT: 4.925 min Scan# 875
Delta R.T. -0.004 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:117 Resp: 115121

Ion	Ratio	Lower	Upper
117	100		
119	110.8	70.2	145.8
121	36.0	22.9	47.7
82	29.3	19.7	40.9

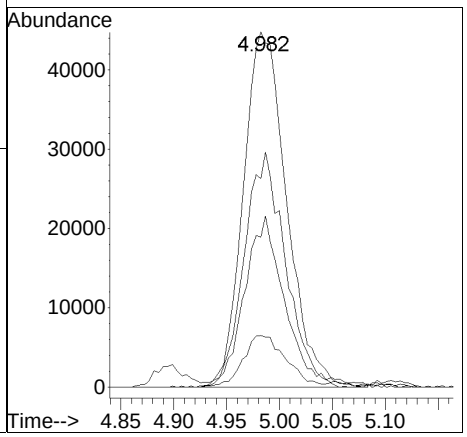


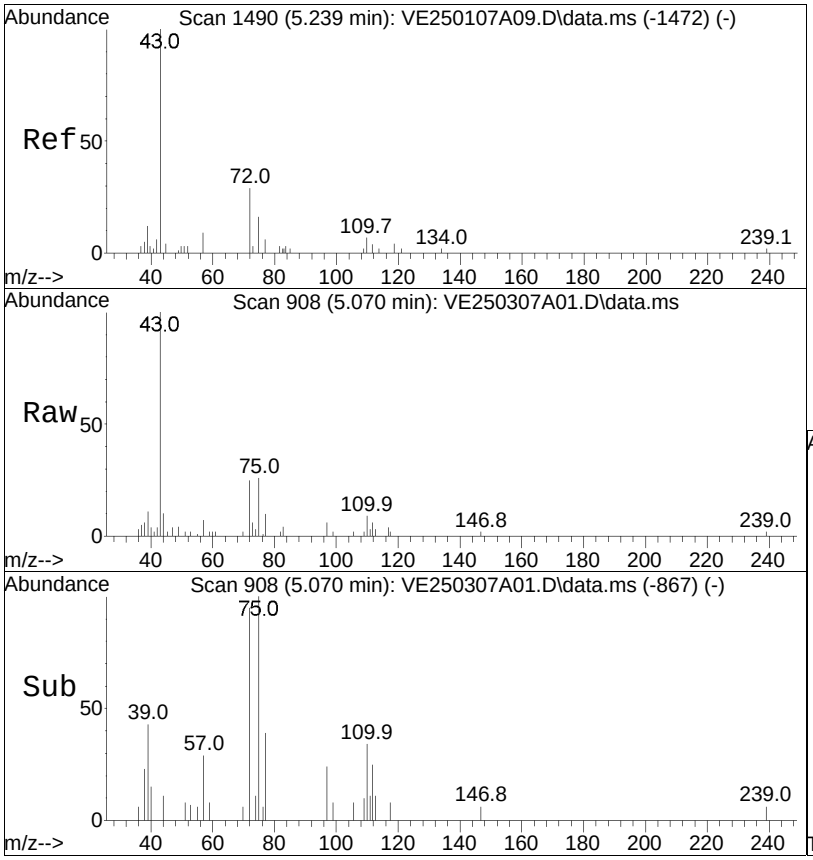


#40
1,1,1-Trichloroethane
Concen: 10.82 ug/L
RT: 4.982 min Scan# 888
Delta R.T. -0.012 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 97 Resp: 128487

Ion	Ratio	Lower	Upper
97	100		
99	63.6	42.4	88.2
61	44.7	29.0	60.2
63	14.9	9.4	19.6

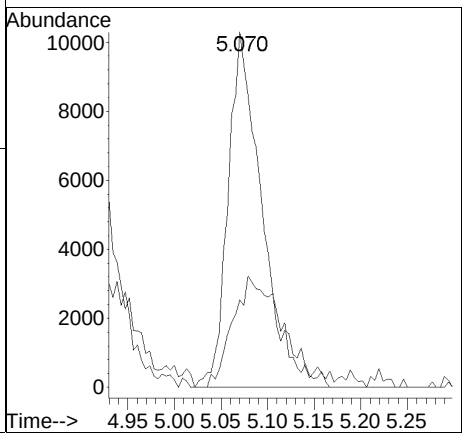


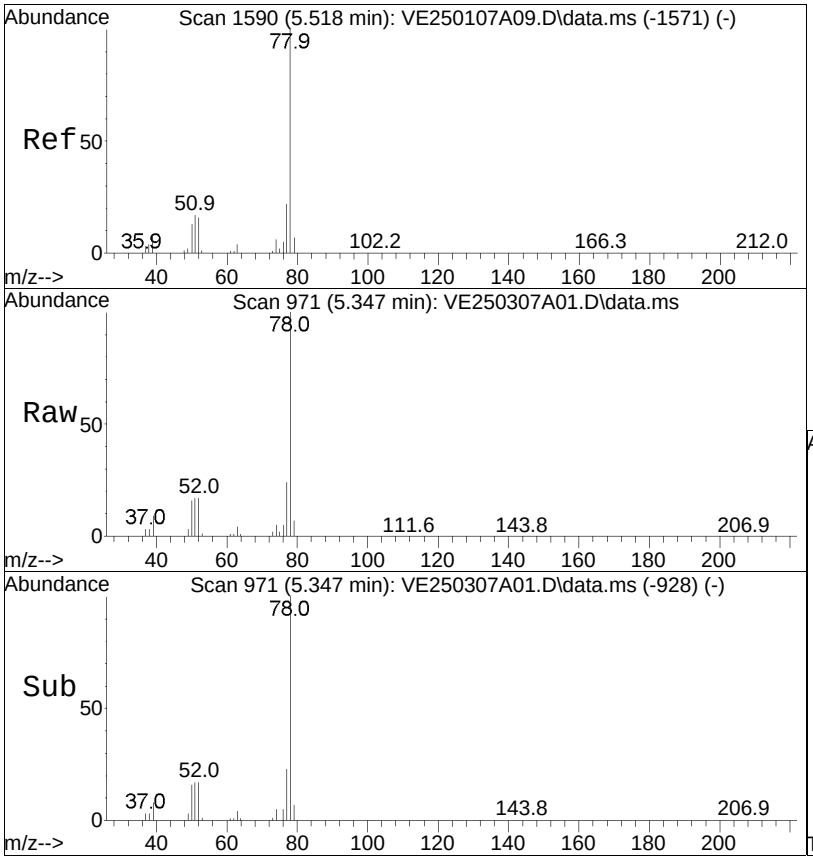


#42
2-Butanone
Concen: 13.63 ug/L
RT: 5.070 min Scan# 908
Delta R.T. -0.019 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 43 Resp: 27193

Ion	Ratio	Lower	Upper
43	100		
72	41.9	44.9	67.3#

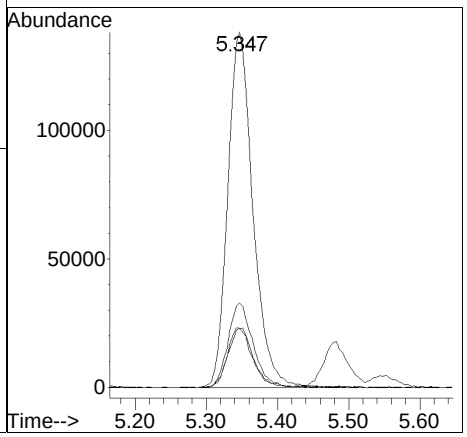


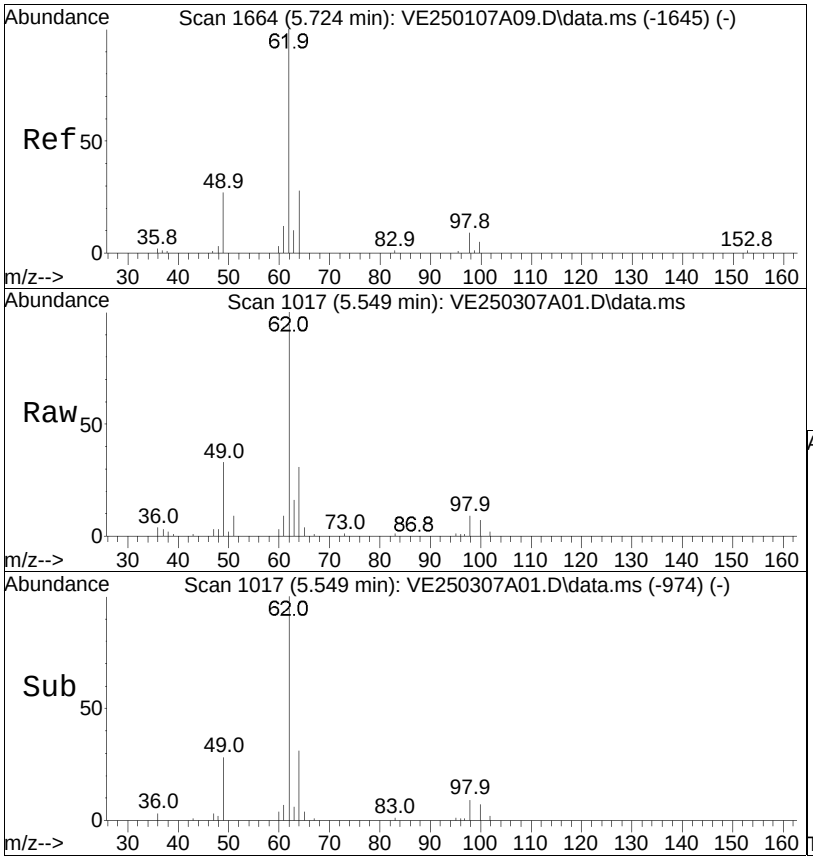


#45
Benzene
Concen: 10.71 ug/L
RT: 5.347 min Scan# 971
Delta R.T. -0.012 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 78 Resp: 340169

Ion	Ratio	Lower	Upper
78	100		
77	23.7	15.3	31.9
51	17.1	10.9	22.5
52	16.8	9.6	19.8

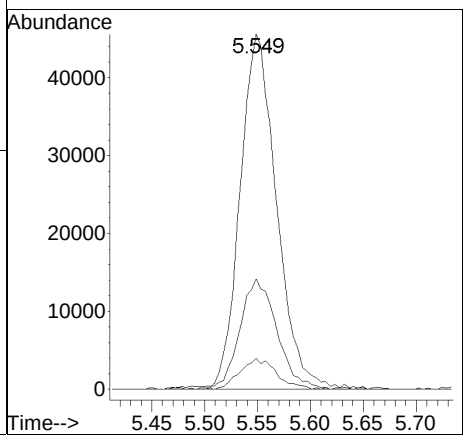


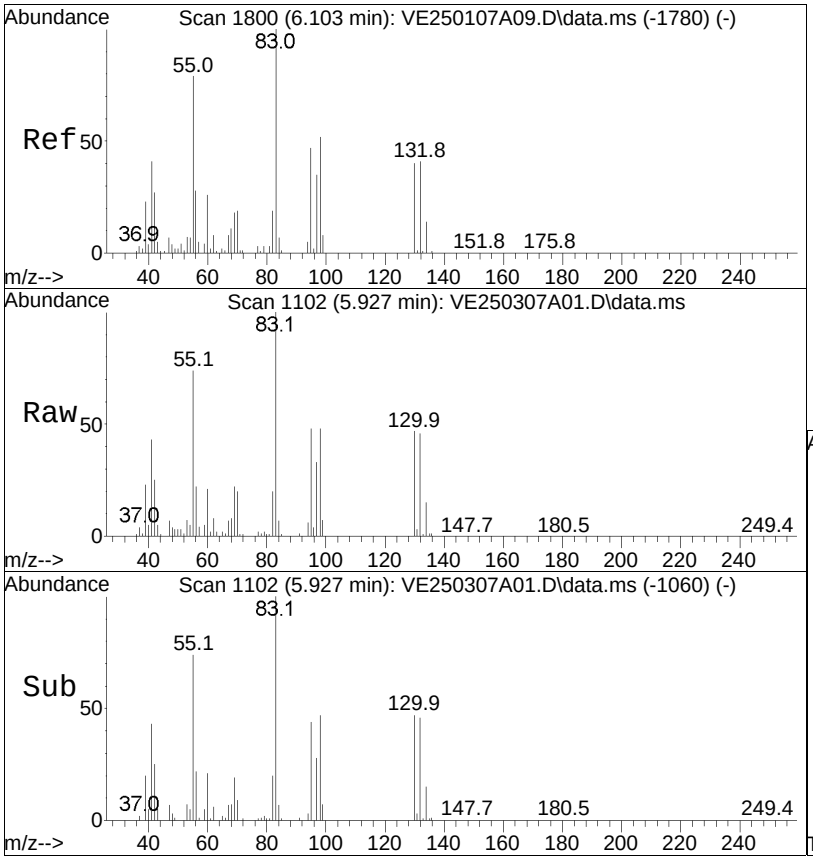


#48
1,2-Dichloroethane
Concen: 10.92 ug/L
RT: 5.549 min Scan# 1017
Delta R.T. -0.011 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 62 Resp: 109610

Ion	Ratio	Lower	Upper
62	100		
64	32.2	13.2	53.2
98	8.7	0.0	29.9

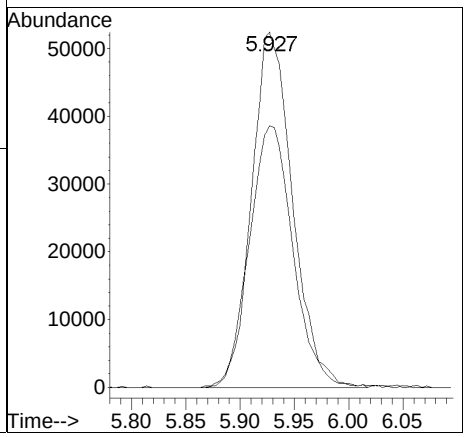


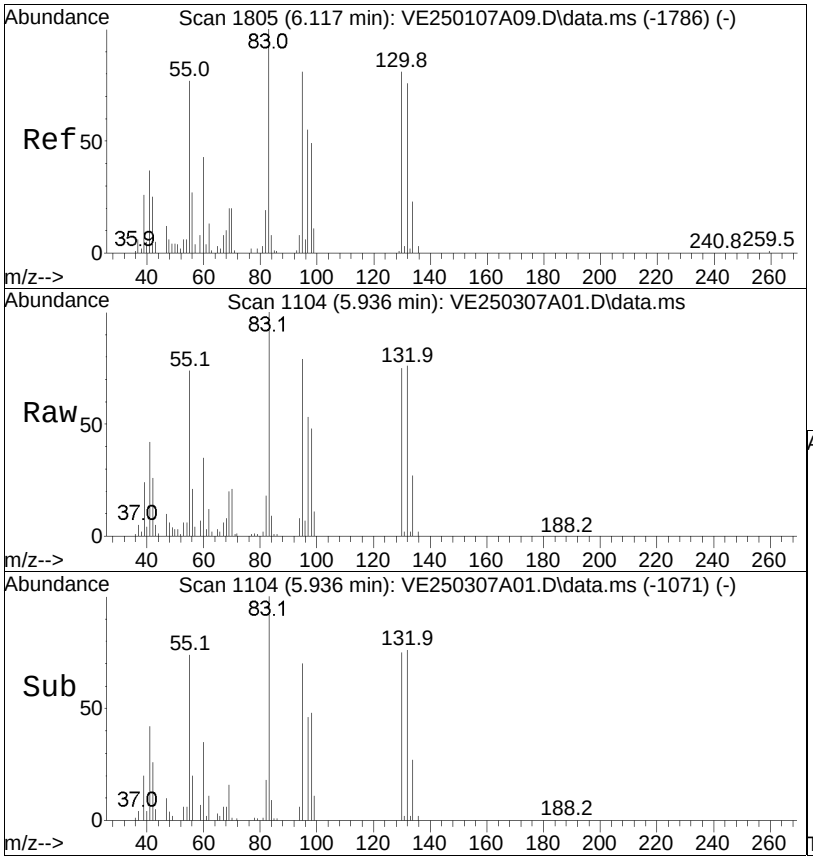


#51
Methyl cyclohexane
Concen: 9.84 ug/L
RT: 5.927 min Scan# 1102
Delta R.T. -0.012 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 83 Resp: 138904

Ion	Ratio	Lower	Upper
83	100		
55	77.2	54.4	81.6

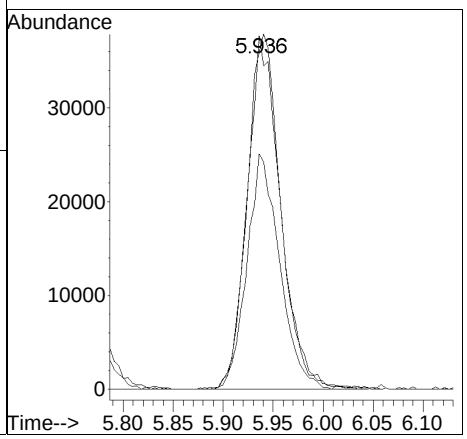


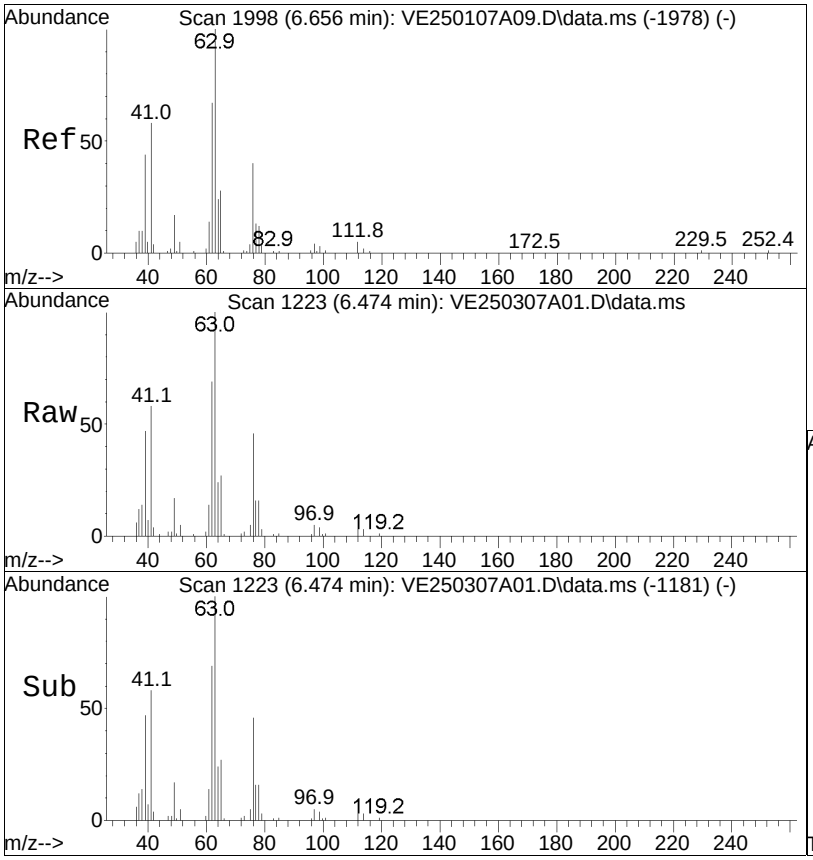


#52
Trichloroethene
Concen: 11.29 ug/L
RT: 5.936 min Scan# 1104
Delta R.T. -0.011 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 95 Resp: 87092

Ion	Ratio	Lower	Upper
95	100		
97	66.3	54.3	81.5
130	102.9	82.5	123.7

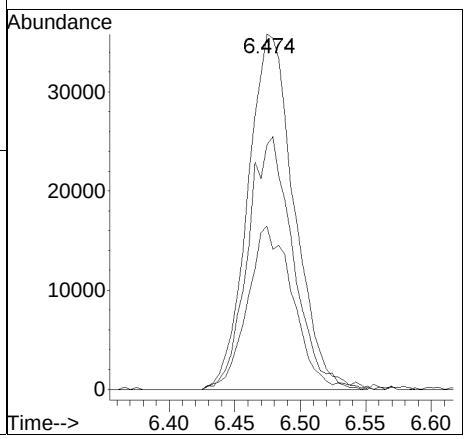


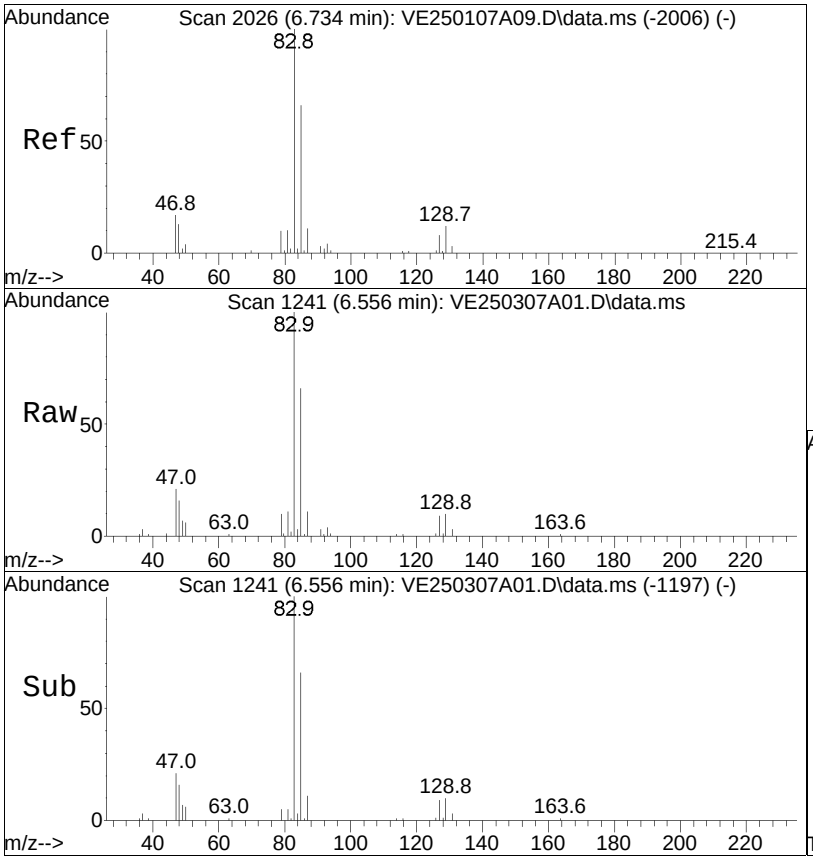


#55
1,2-Dichloropropane
Concen: 11.81 ug/L
RT: 6.474 min Scan# 1223
Delta R.T. -0.011 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 63 Resp: 88318

Ion	Ratio	Lower	Upper
63	100		
62	69.4	56.2	84.4
76	45.1	34.8	52.2

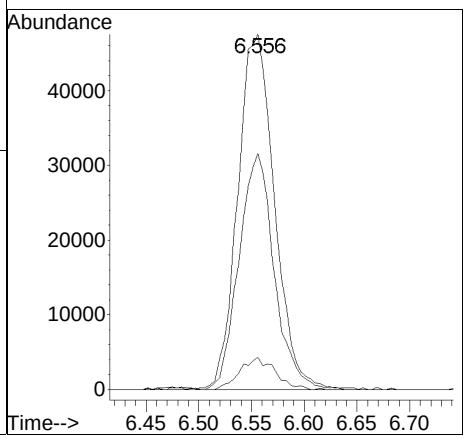


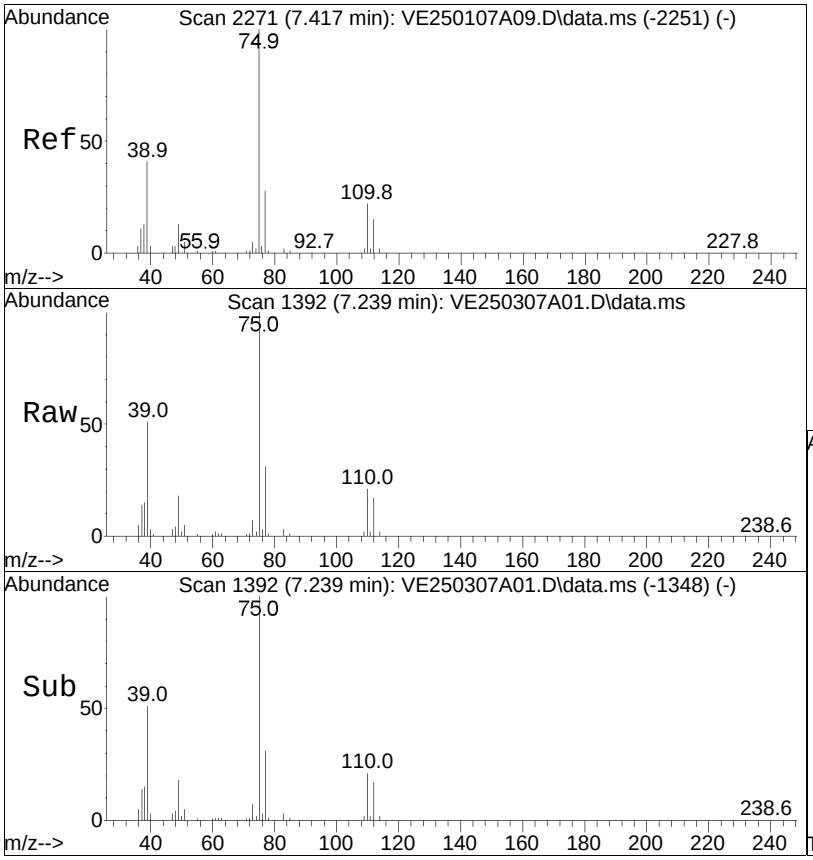


#58
Bromodichloromethane
Concen: 10.72 ug/L
RT: 6.556 min Scan# 1241
Delta R.T. -0.002 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 83 Resp: 115160

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.0	76.6
127	8.5	7.0	10.4

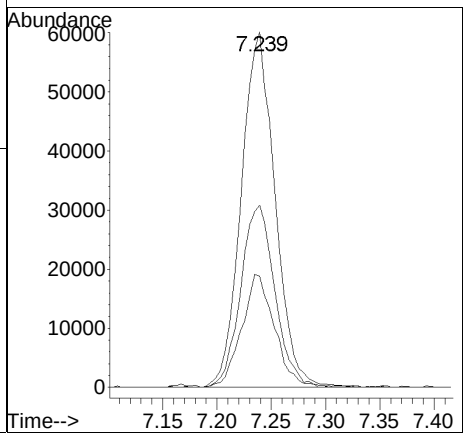


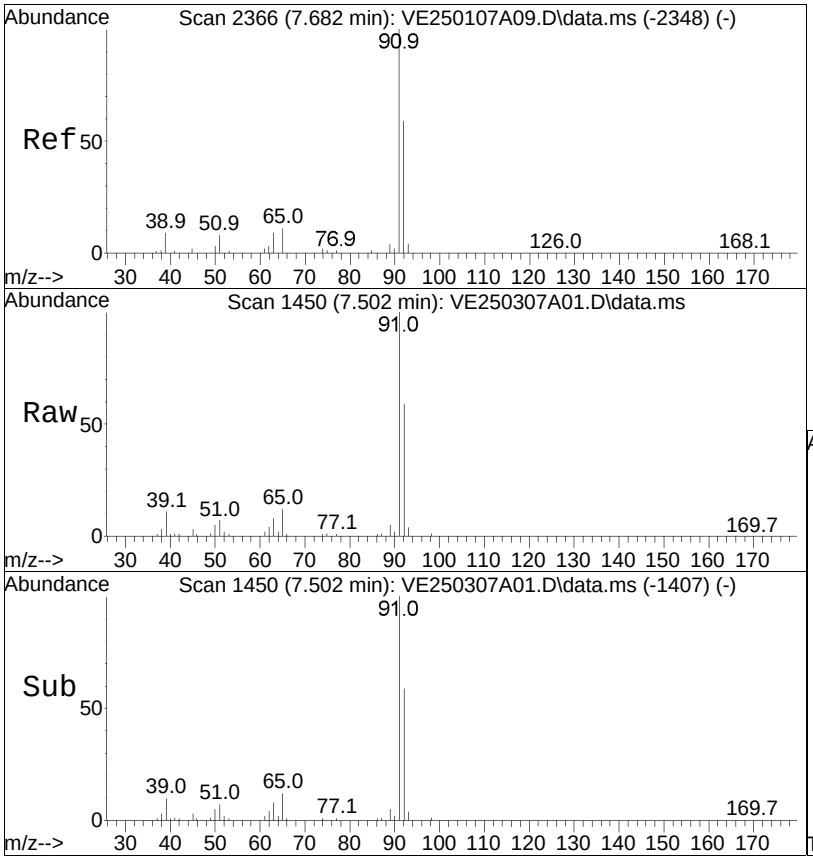


#62
cis-1,3-Dichloropropene
Concen: 11.21 ug/L
RT: 7.239 min Scan# 1392
Delta R.T. -0.002 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 75 Resp: 130346

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.0	37.4
39	51.9	42.9	64.3

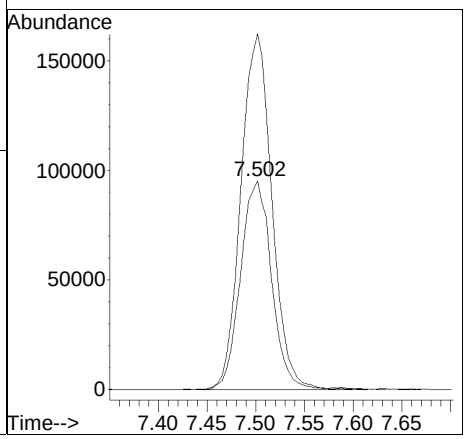


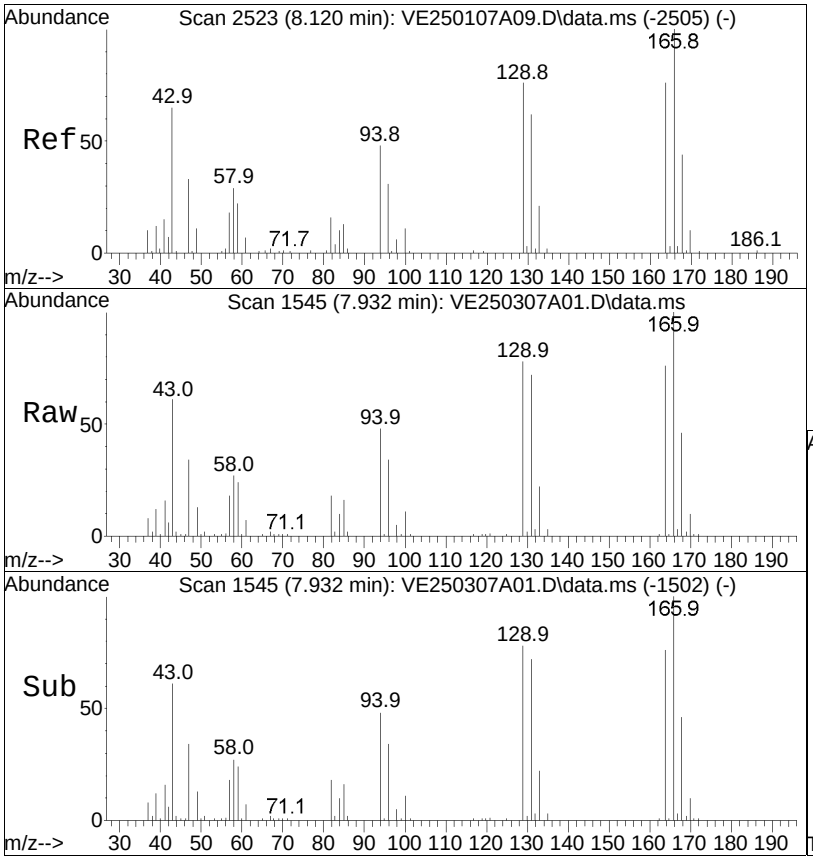


#65
Toluene
Concen: 10.50 ug/L
RT: 7.502 min Scan# 1450
Delta R.T. -0.005 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 92 Resp: 210766

Ion	Ratio	Lower	Upper
92	100		
91	170.4	134.8	202.2

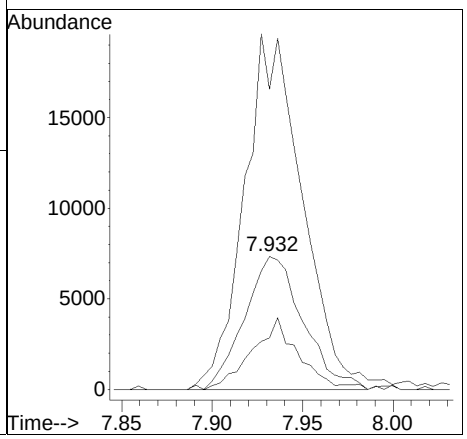


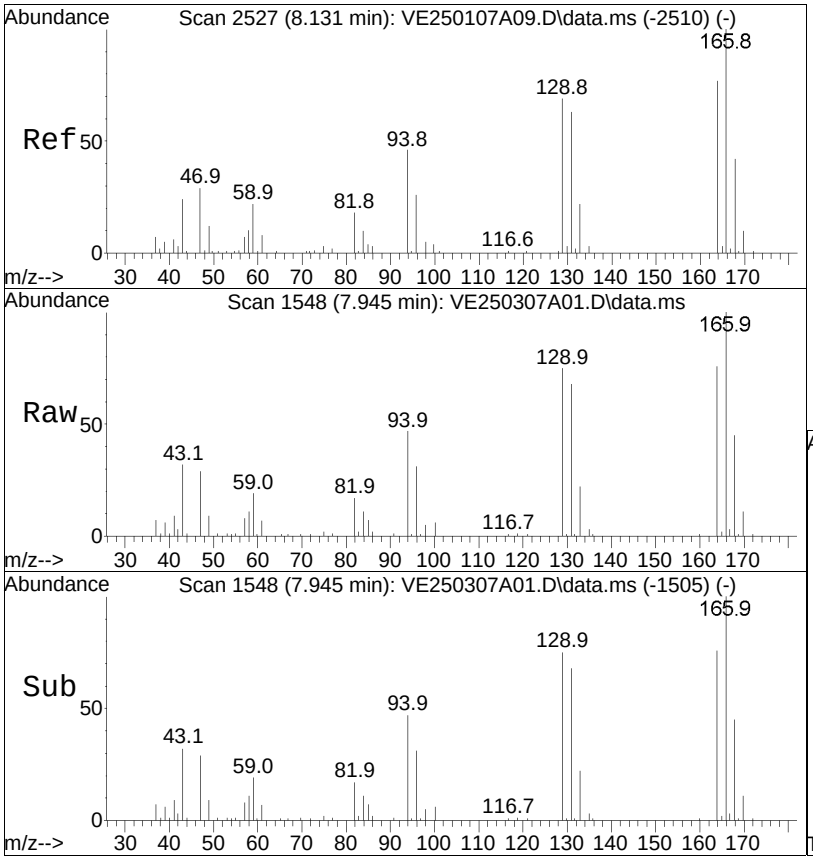


#66
4-Methyl-2-pentanone
Concen: 9.66 ug/L
RT: 7.932 min Scan# 1545
Delta R.T. -0.007 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 58 Resp: 16530

Ion	Ratio	Lower	Upper
58	100		
100	43.2	34.8	52.2
43	269.9	201.1	301.7

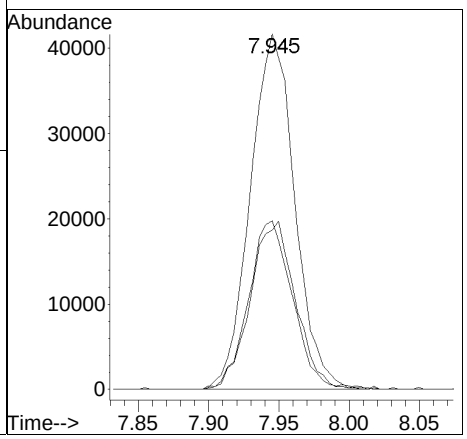


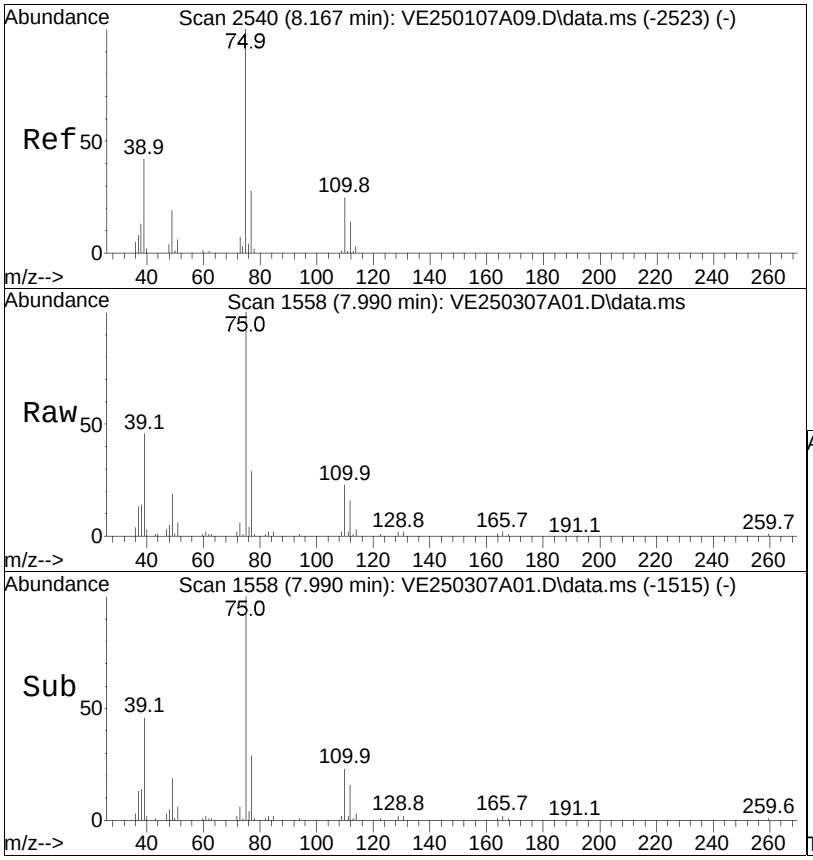


#67
Tetrachloroethene
Concen: 11.87 ug/L
RT: 7.945 min Scan# 1548
Delta R.T. -0.007 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:166 Resp: 91691

Ion	Ratio	Lower	Upper
166	100		
168	47.9	28.3	68.3
94	47.0	27.4	67.4

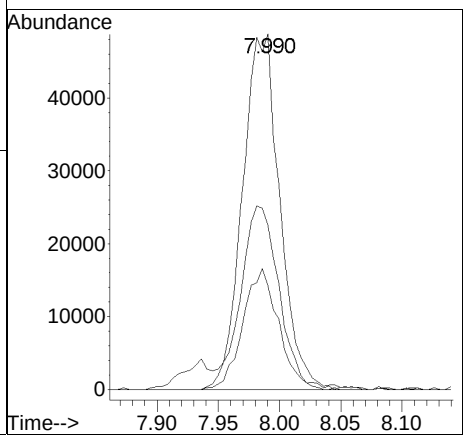


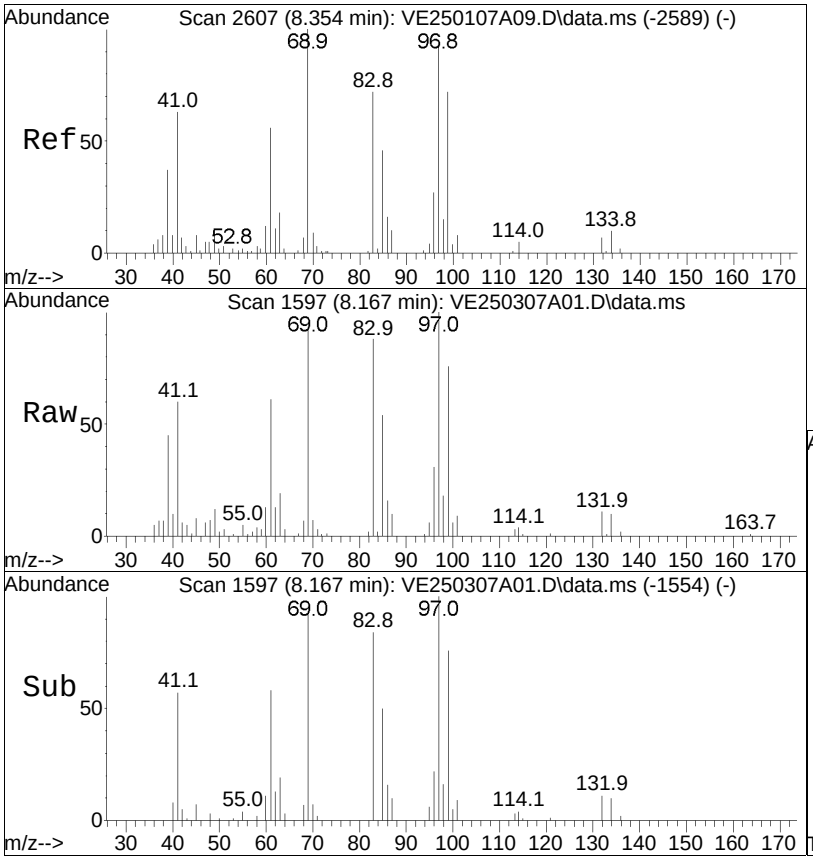


#69
trans-1,3-Dichloropropene
Concen: 10.68 ug/L
RT: 7.990 min Scan# 1558
Delta R.T. -0.004 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 75 Resp: 103684

Ion	Ratio	Lower	Upper
75	100		
77	32.3	11.5	51.5
39	52.2	29.6	69.6

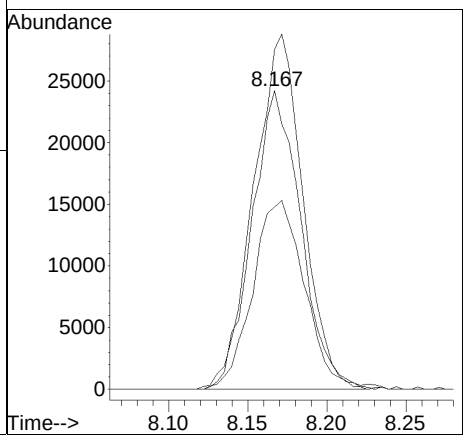


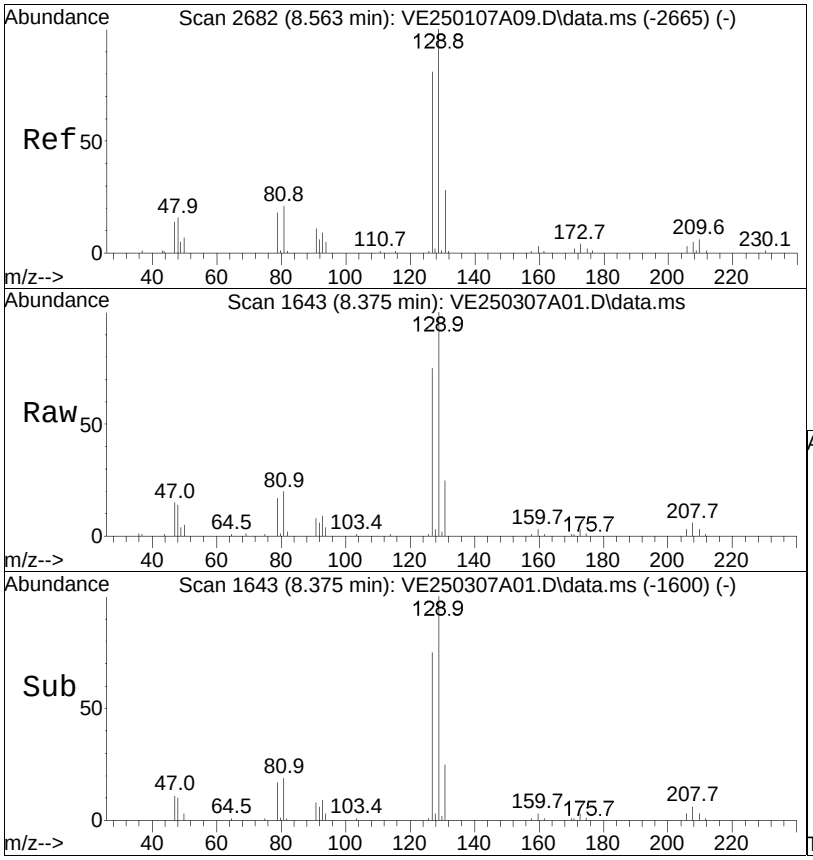


#72
1,1,2-Trichloroethane
Concen: 10.32 ug/L
RT: 8.167 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 83 Resp: 51997

Ion	Ratio	Lower	Upper
83	100		
97	120.8	96.9	136.9
85	67.0	46.7	86.7

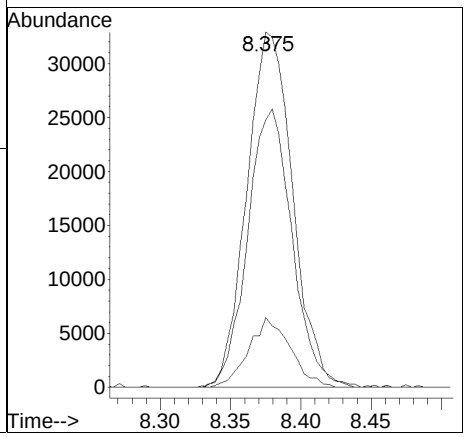


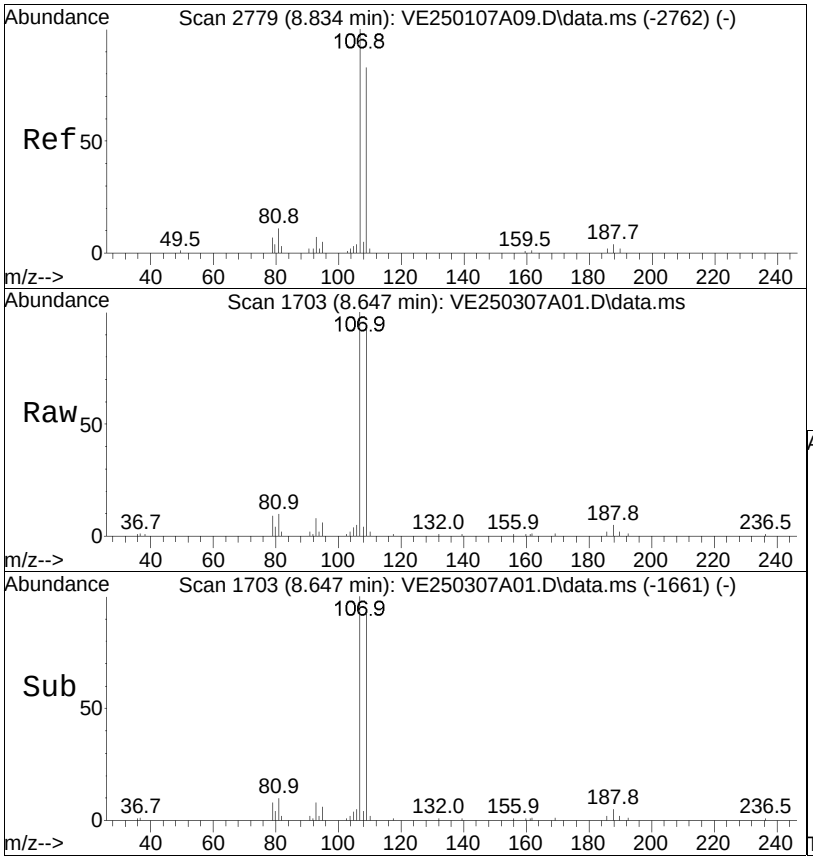


#73
Chlorodibromomethane
Concen: 10.64 ug/L
RT: 8.375 min Scan# 1643
Delta R.T. -0.007 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:129 Resp: 74677

Ion	Ratio	Lower	Upper
129	100		
81	17.9	0.9	40.9
127	76.1	56.5	96.5

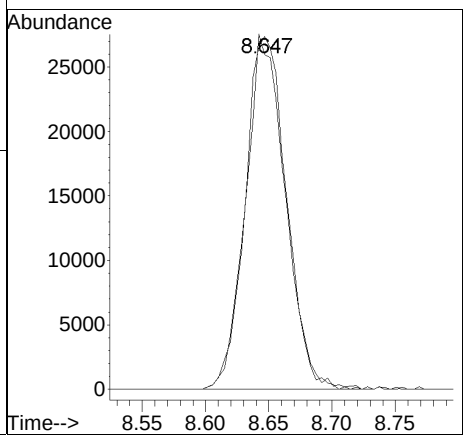


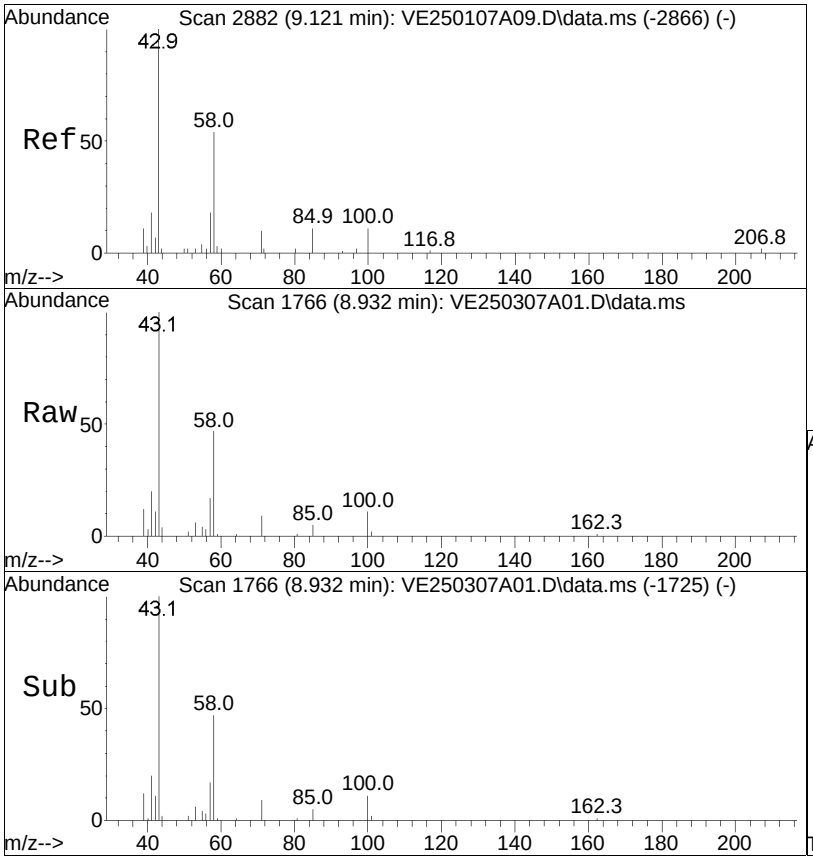


#75
1,2-Dibromoethane
Concen: 10.83 ug/L
RT: 8.647 min Scan# 1703
Delta R.T. -0.009 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:107 Resp: 62463

Ion	Ratio	Lower	Upper
107	100		
109	95.6	72.7	109.1

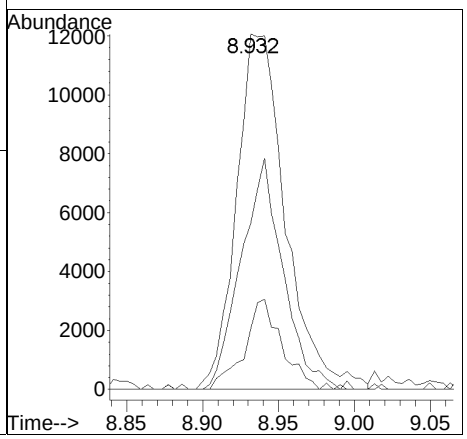


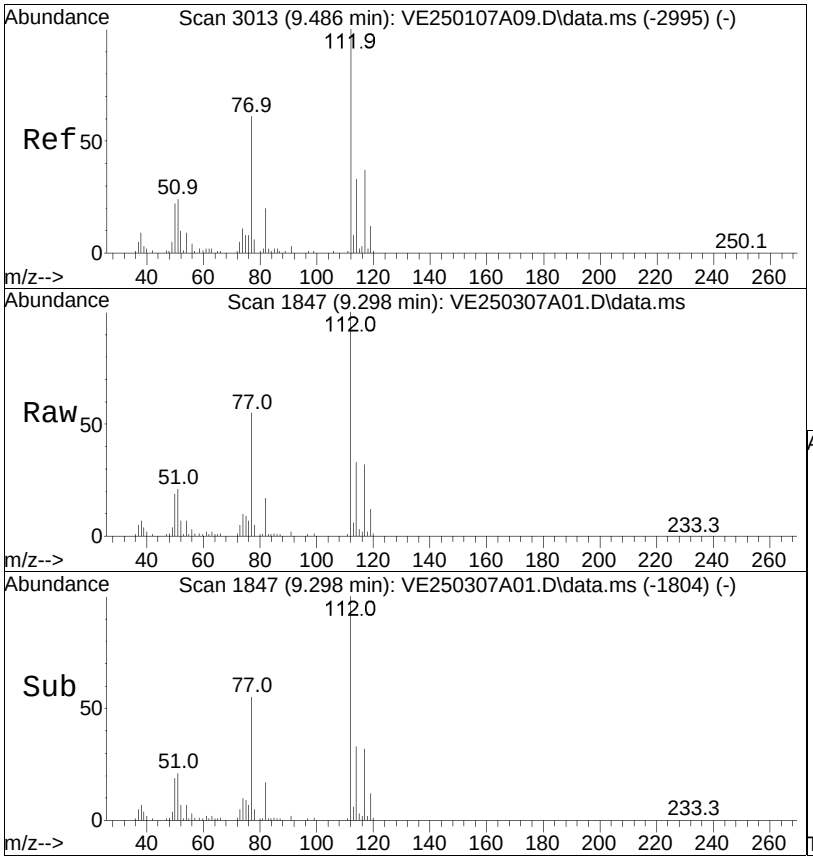


#77
2-Hexanone
Concen: 9.96 ug/L
RT: 8.932 min Scan# 1766
Delta R.T. -0.014 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 43 Resp: 27158

Ion	Ratio	Lower	Upper
43	100		
58	55.5	42.7	64.1
57	19.2	15.5	23.3

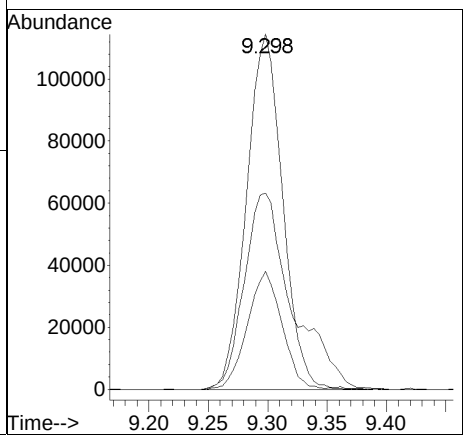


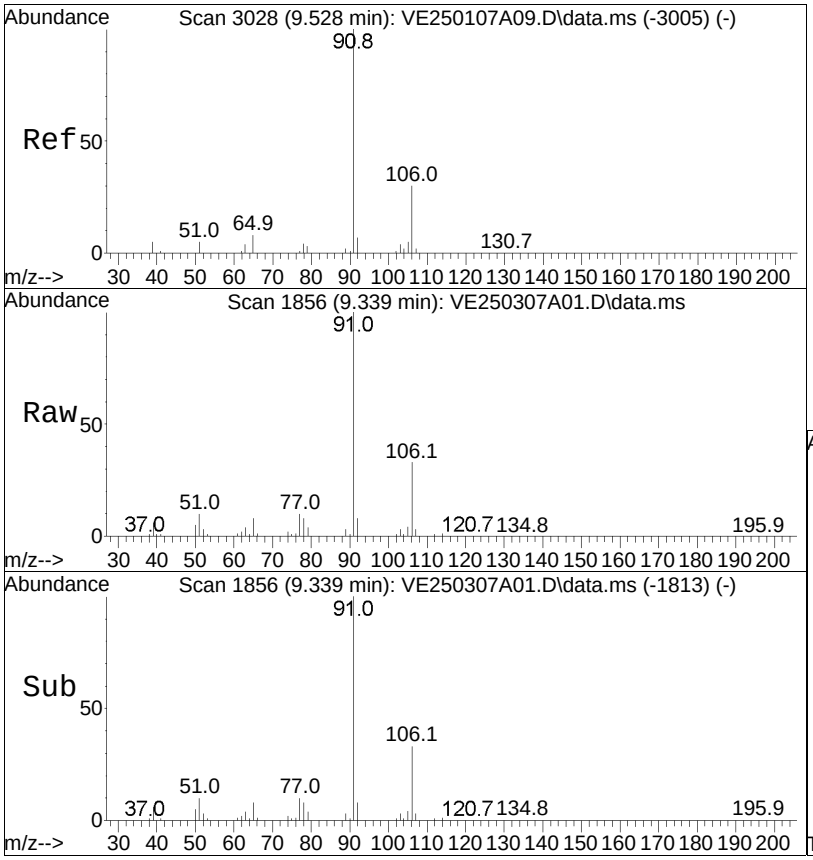


#78
Chlorobenzene
Concen: 10.59 ug/L
RT: 9.298 min Scan# 1847
Delta R.T. -0.004 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:112 Resp: 241828

Ion	Ratio	Lower	Upper
112	100		
77	73.5	56.4	84.6
114	32.0	25.8	38.6

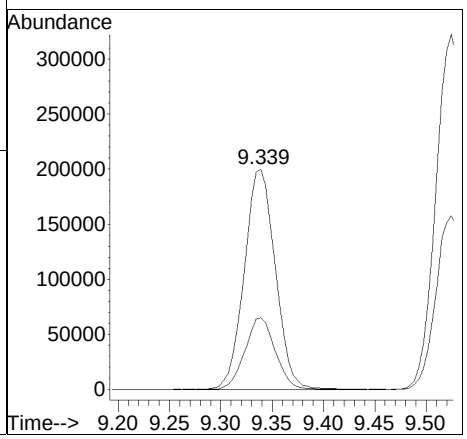


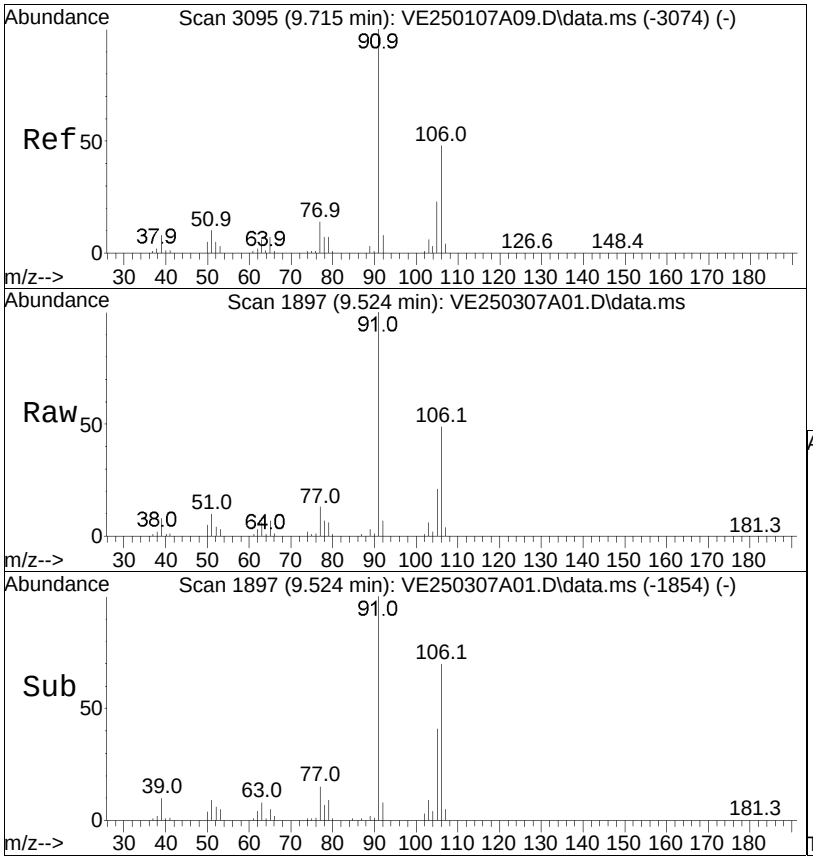


#79
Ethylbenzene
Concen: 10.45 ug/L
RT: 9.339 min Scan# 1856
Delta R.T. -0.005 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 91 Resp: 420066

Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.4	38.2

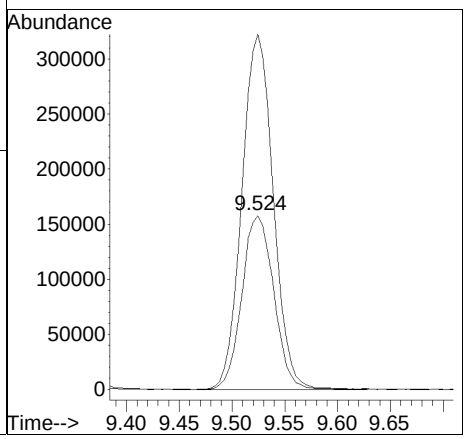


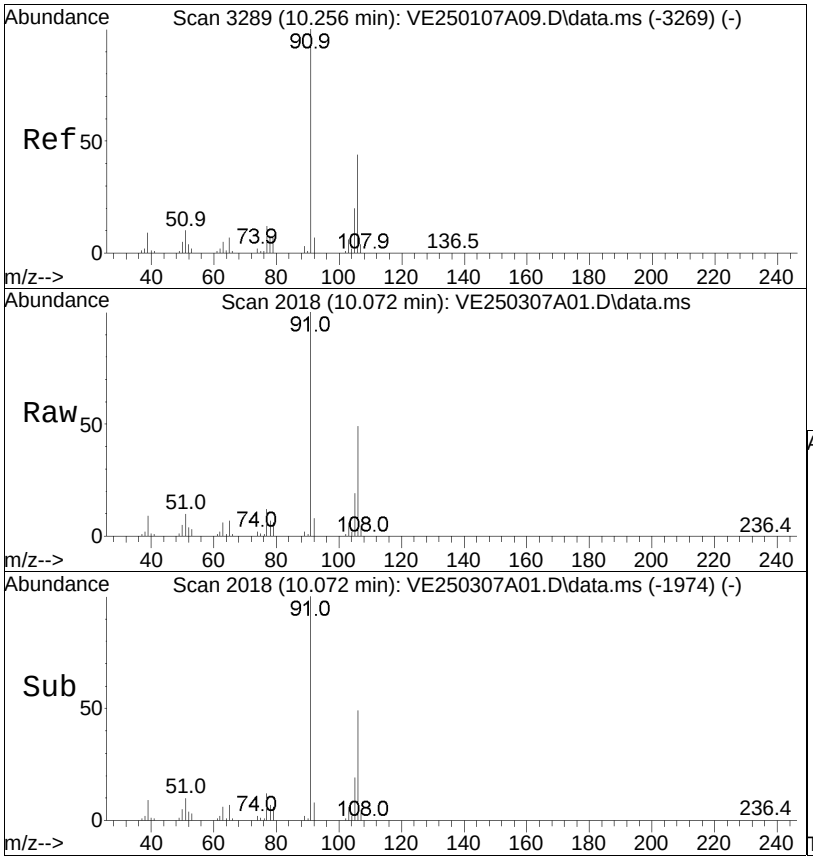


#81
p/m Xylene
Concen: 20.16 ug/L
RT: 9.524 min Scan# 1897
Delta R.T. -0.006 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:106 Resp: 331410

Ion	Ratio	Lower	Upper
106	100		
91	201.3	158.3	237.5

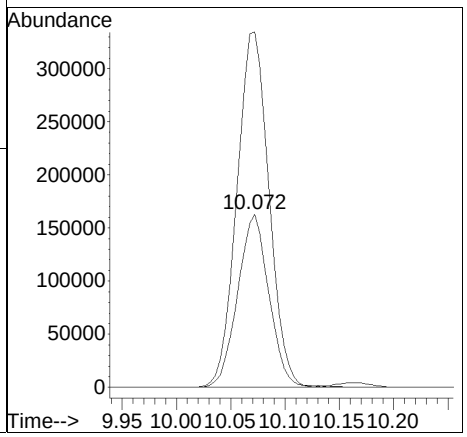


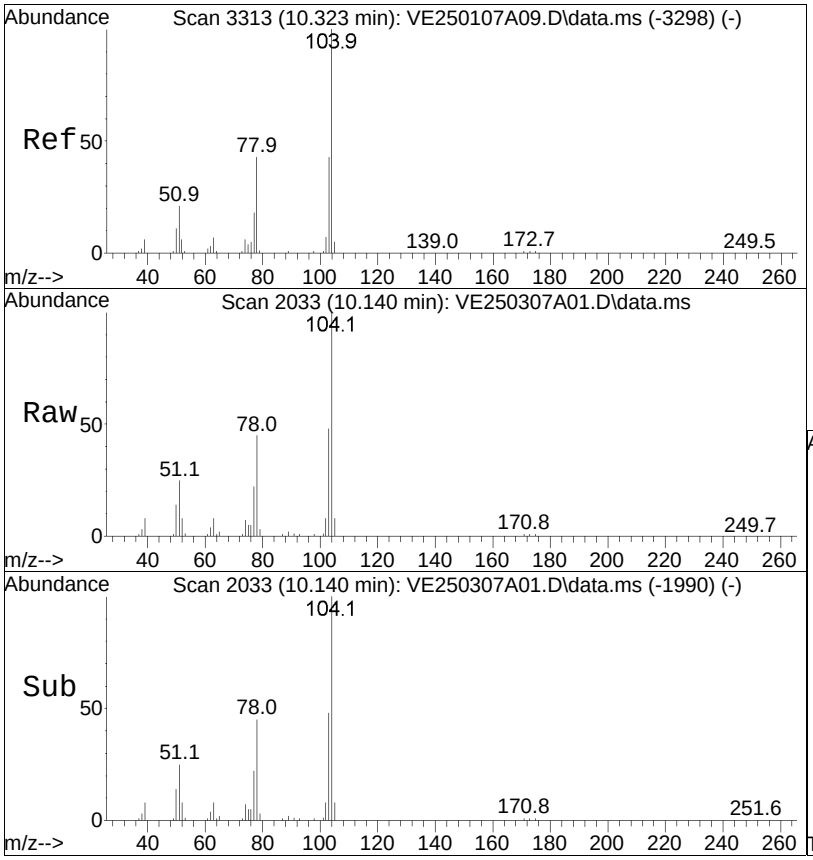


#82
o Xylene
Concen: 20.02 ug/L
RT: 10.072 min Scan# 2018
Delta R.T. -0.003 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:106 Resp: 327722

Ion	Ratio	Lower	Upper
106	100		
91	210.4	168.7	253.1

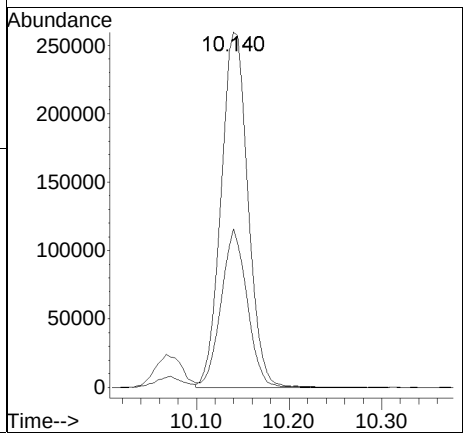


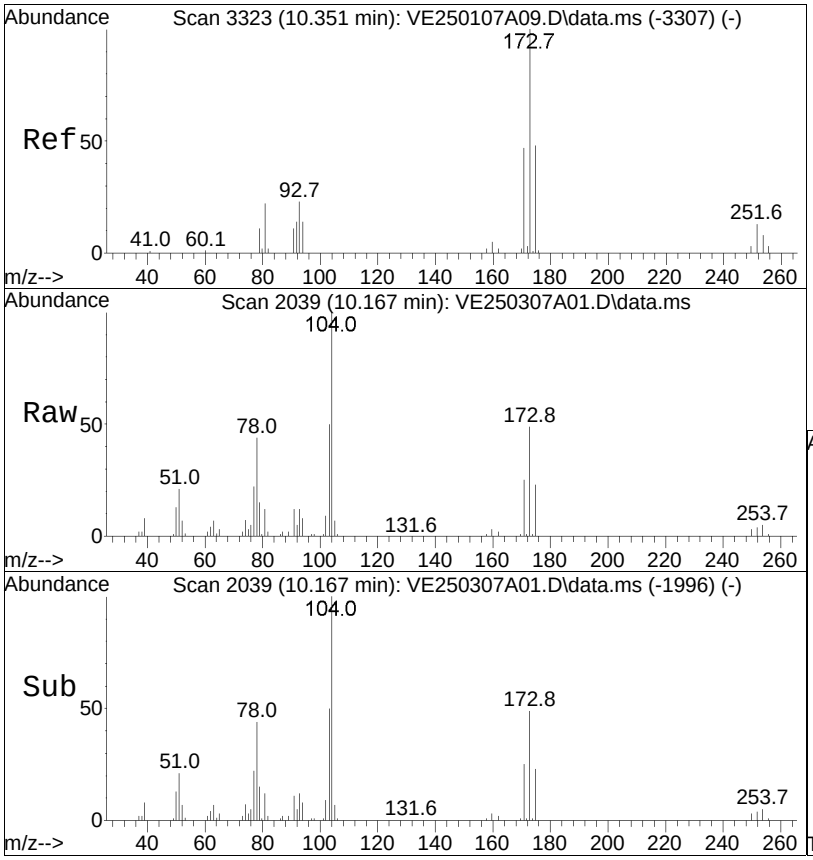


#83
Styrene
Concen: 18.78 ug/L
RT: 10.140 min Scan# 2033
Delta R.T. -0.007 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:104 Resp: 523494

Ion	Ratio	Lower	Upper
104	100		
78	43.0	32.4	48.6

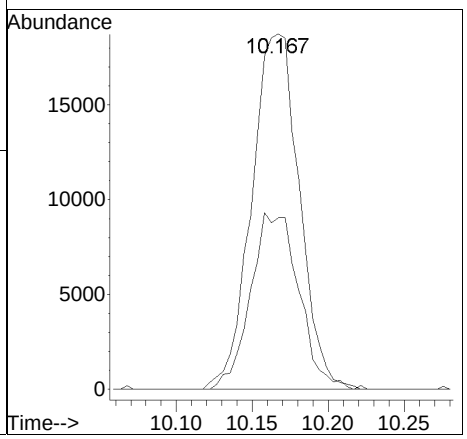


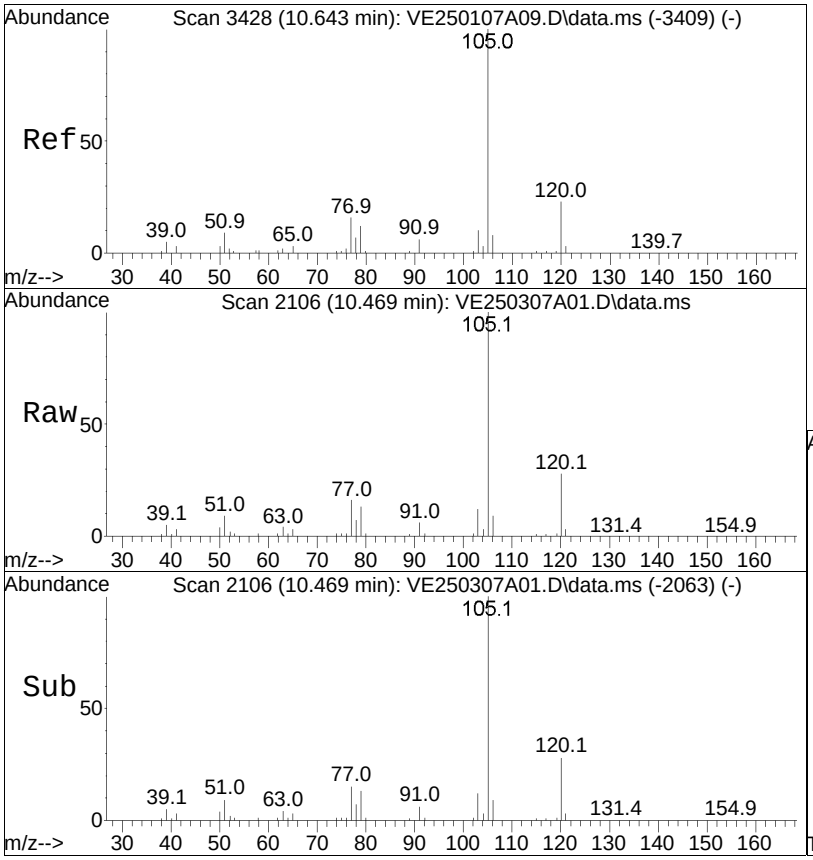


#85
Bromoform
Concen: 10.11 ug/L
RT: 10.167 min Scan# 2039
Delta R.T. -0.005 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:173 Resp: 40962

Ion	Ratio	Lower	Upper
173	100		
175	50.1	27.0	67.0

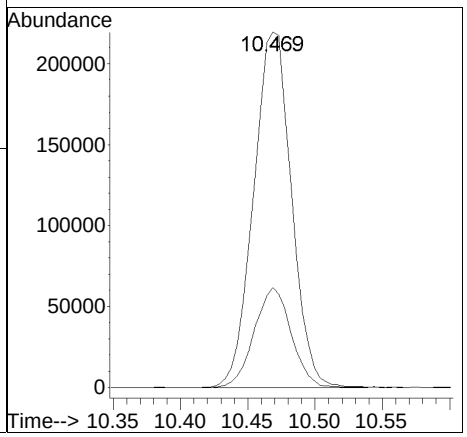


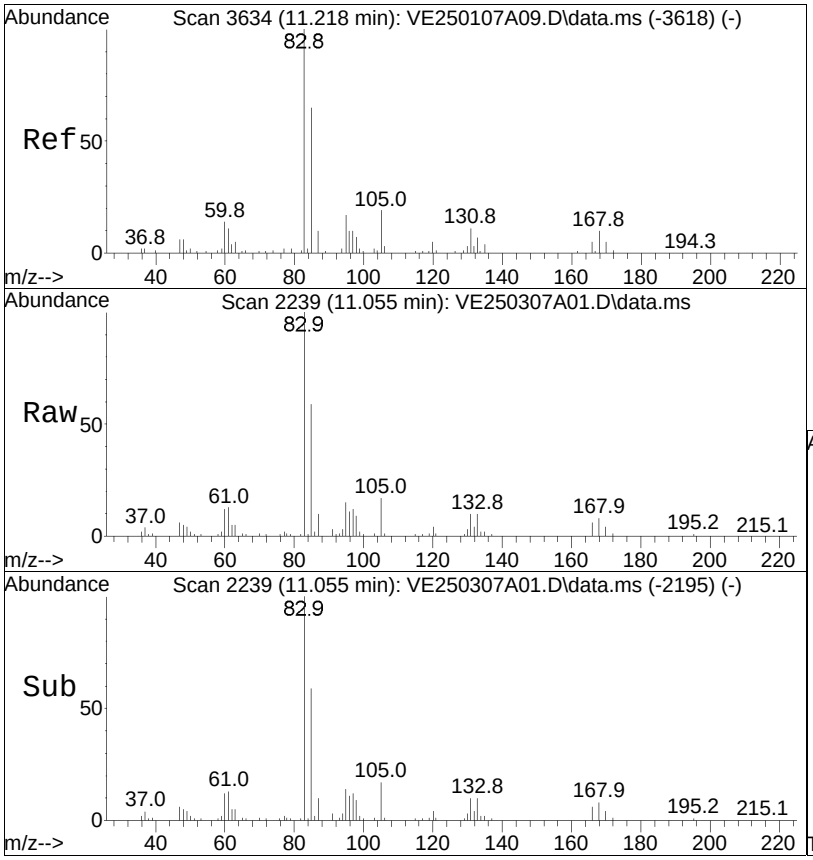


#87
Isopropylbenzene
Concen: 10.89 ug/L
RT: 10.469 min Scan# 2106
Delta R.T. -0.005 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:105 Resp: 429598

Ion	Ratio	Lower	Upper
105	100		
120	27.4	6.7	46.7

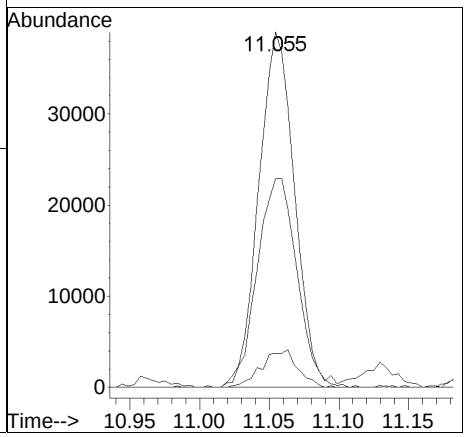


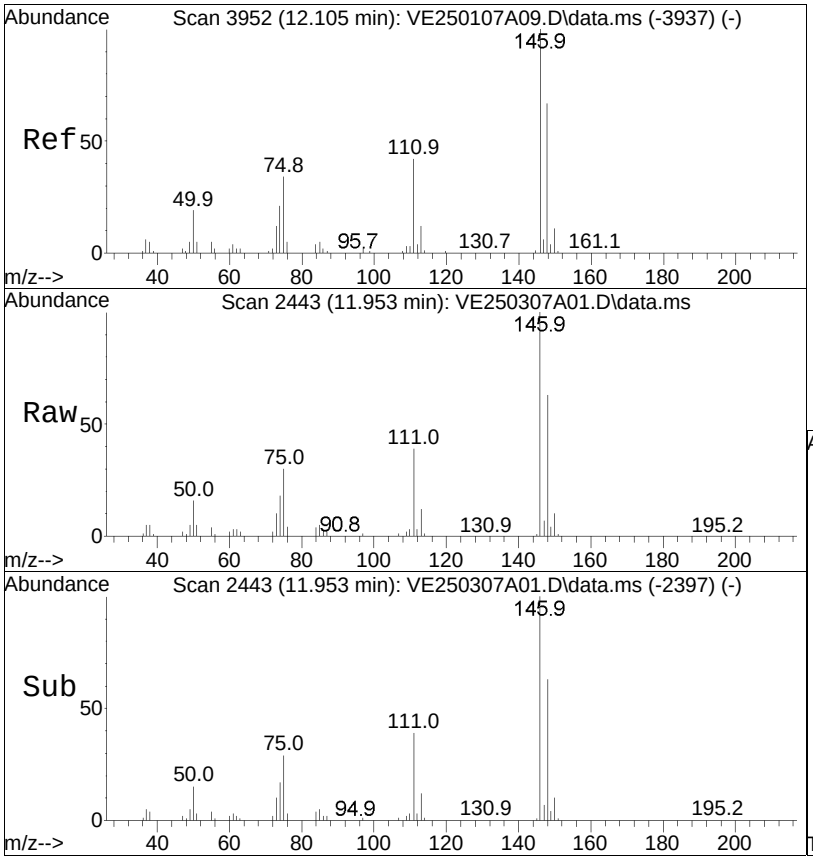


#92
1,1,2,2-Tetrachloroethane
Concen: 10.41 ug/L
RT: 11.055 min Scan# 2239
Delta R.T. -0.007 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion: 83 Resp: 69748

Ion	Ratio	Lower	Upper
83	100		
131	10.7	0.0	30.1
85	71.7	46.3	86.3

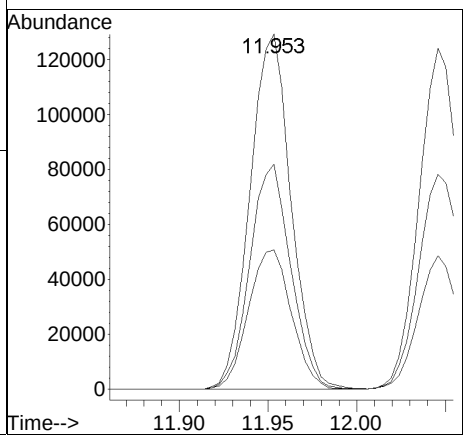


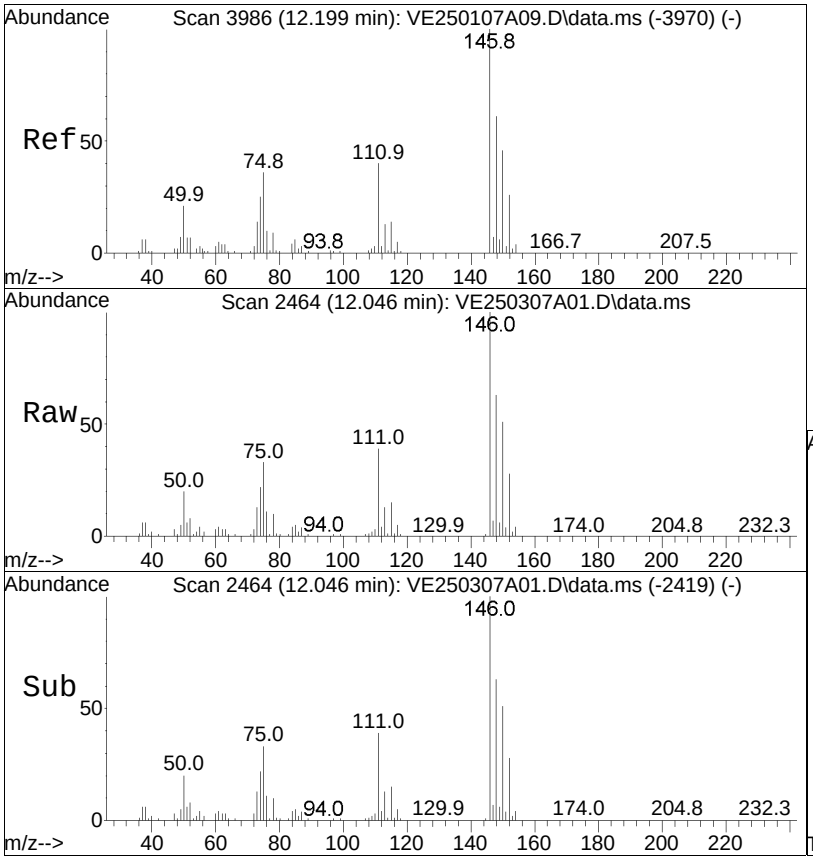


#105
1,3-Dichlorobenzene
Concen: 10.93 ug/L
RT: 11.953 min Scan# 2443
Delta R.T. 0.002 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:146 Resp: 209307

Ion	Ratio	Lower	Upper
146	100		
111	41.2	26.0	54.0
148	63.1	42.1	87.3

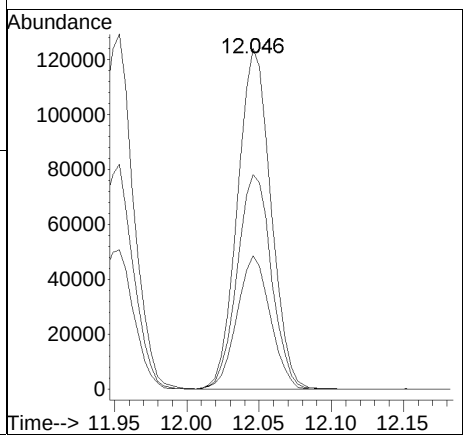


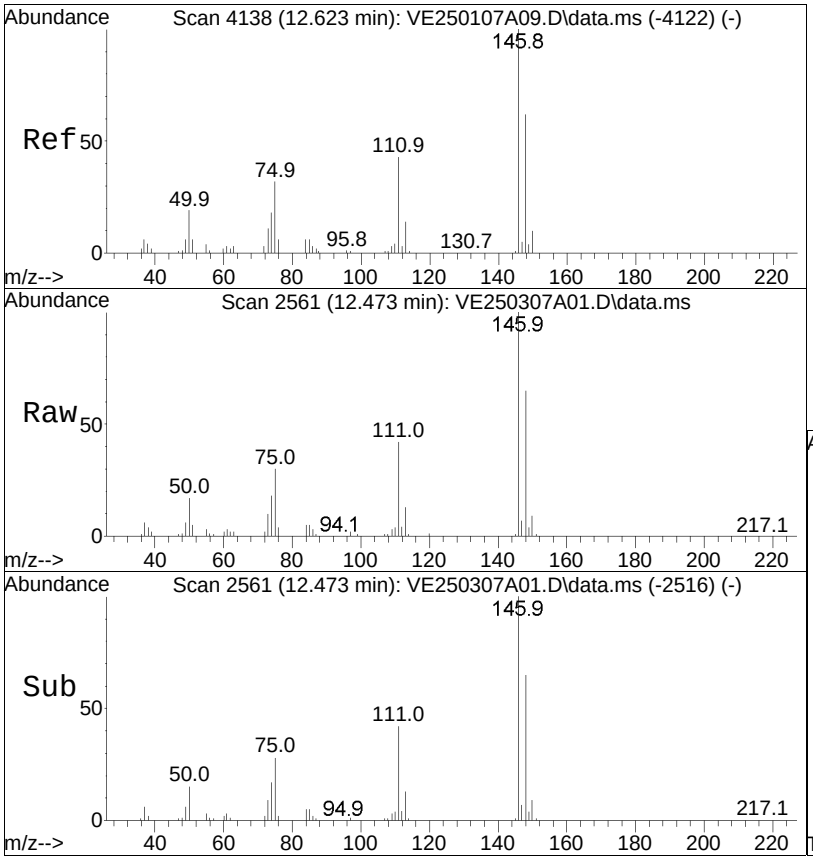


#106
1,4-Dichlorobenzene
Concen: 10.50 ug/L
RT: 12.046 min Scan# 2464
Delta R.T. -0.003 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:146 Resp: 200109

Ion	Ratio	Lower	Upper
146	100		
111	39.2	31.5	47.3
148	64.7	51.1	76.7

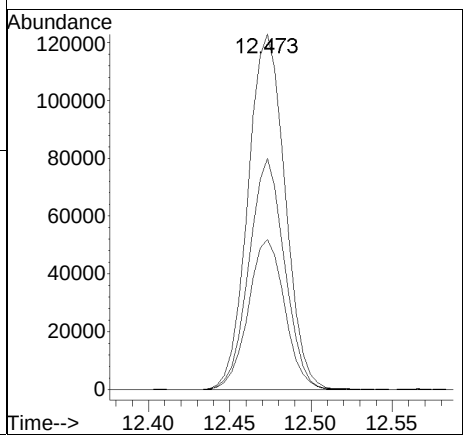


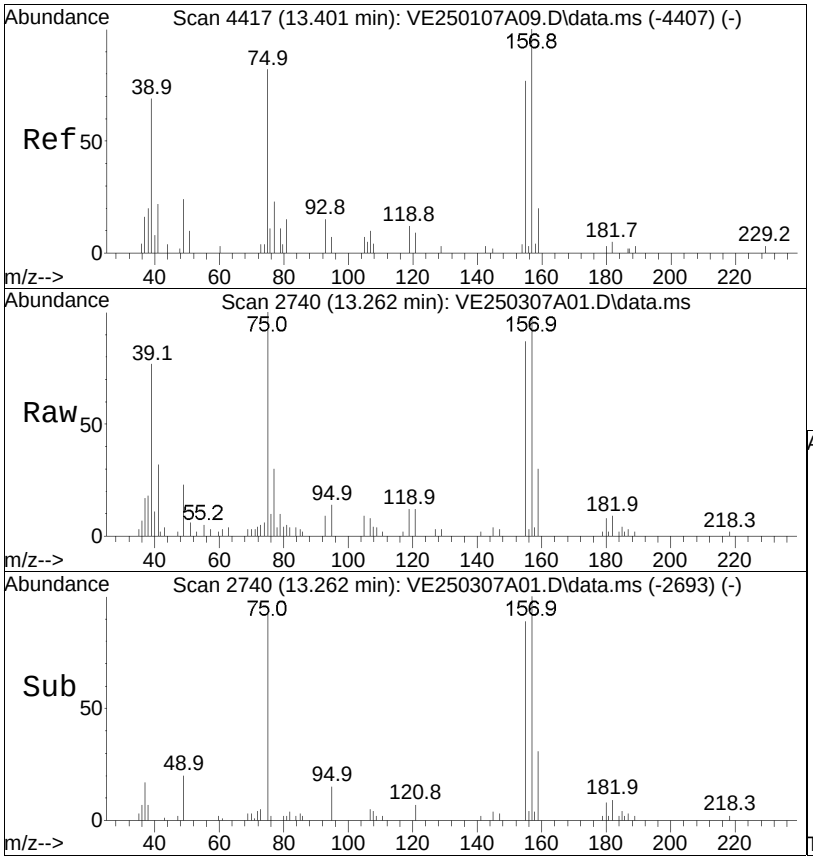


#109
1,2-Dichlorobenzene
Concen: 10.84 ug/L
RT: 12.473 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:146 Resp: 195094

Ion	Ratio	Lower	Upper
146	100		
111	41.4	26.8	55.6
148	62.3	40.9	84.9

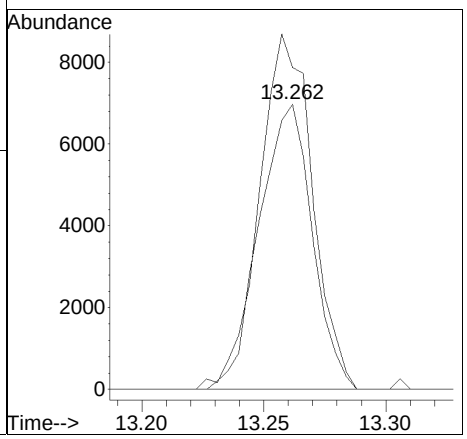


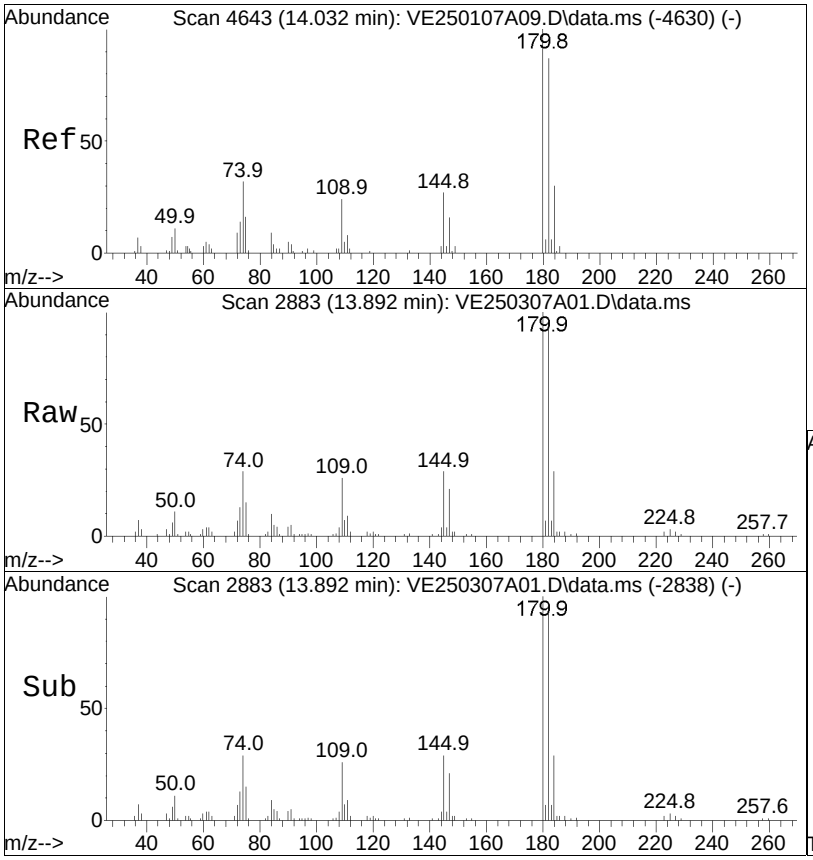


#111
1,2-Dibromo-3-chloropropane
Concen: 10.12 ug/L
RT: 13.262 min Scan# 2740
Delta R.T. 0.006 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:155 Resp: 10535

Ion	Ratio	Lower	Upper
155	100		
157	125.6	95.8	143.8

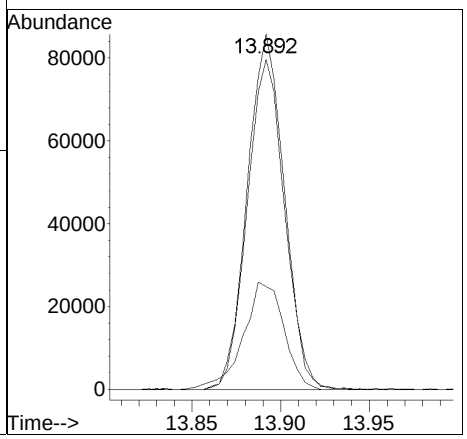


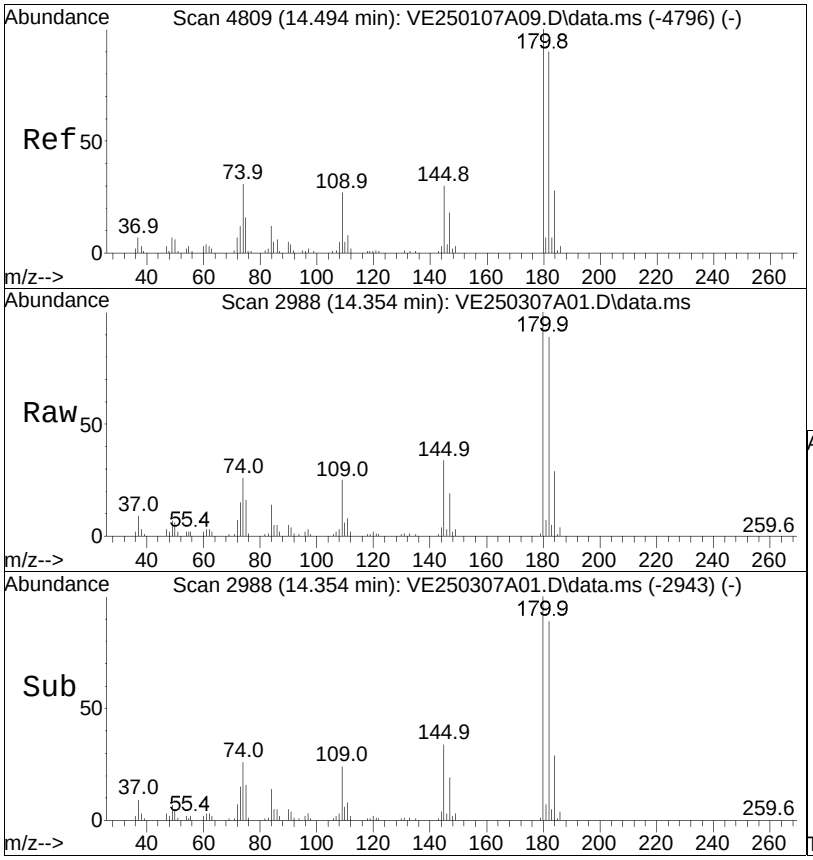


#114
1,2,4-Trichlorobenzene
Concen: 11.02 ug/L
RT: 13.892 min Scan# 2883
Delta R.T. -0.003 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:180 Resp: 125005

Ion	Ratio	Lower	Upper
180	100		
182	93.1	76.2	114.2
145	32.9	27.8	41.6

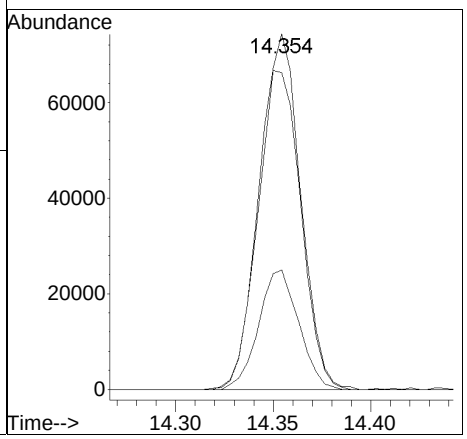




#116
1,2,3-Trichlorobenzene
Concen: 10.56 ug/L
RT: 14.354 min Scan# 2988
Delta R.T. -0.001 min
Lab File: VE250307A01.D
Acq: 7 Mar 2025 6:59 am

Tgt Ion:180 Resp: 109803

Ion	Ratio	Lower	Upper
180	100		
182	93.0	77.0	115.4
145	32.5	25.9	38.9

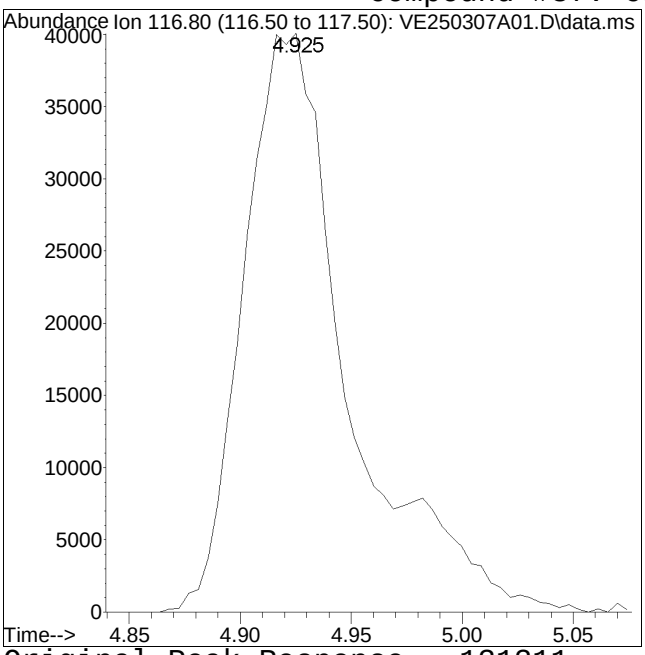


Manual Integration Report

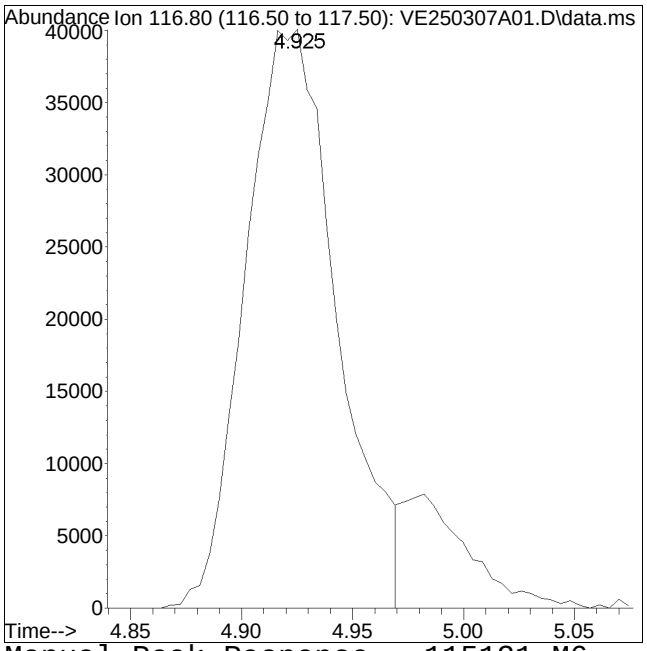
Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A01.D
Date Inj'd : 3/7/2025 6:59 am
Sample : WG2037848-3,31,10,10

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/7/2025 7:25 am

Compound #37: Carbon tetrachloride



Original Peak Response = 131311



Manual Peak Response = 115121 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A02.D
Acq On : 7 Mar 2025 7:23 am
Operator : ELAINE:PID
Sample : WG2037848-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 07:50:18 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250307A\VE250307A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.764	96	361270	10.000	ug/L	-0.01
Standard Area 1 = 358002			Recovery = 100.91%			
63) Chlorobenzene-d5	9.275	117	273723	10.000	ug/L	0.00
Standard Area 1 = 268415			Recovery = 101.98%			
84) 1,4-Dichlorobenzene-d4	12.028	152	145467	10.000	ug/L	0.00
Standard Area 1 = 143026			Recovery = 101.71%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.969	113	99075	10.049	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.49%			
47) 1,2-Dichloroethane-d4	5.487	65	111527	10.686	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.86%			
64) Toluene-d8	7.443	98	364409	10.062	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.62%			
88) 4-Bromofluorobenzene	10.803	95	130599	11.218	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.509	85	60318	6.489	ug/L	100
3) Chloromethane	1.689	50	62969	7.514	ug/L	99
4) Vinyl chloride	1.755	62	77679	7.138	ug/L	100
5) Bromomethane	2.049	94	50211	5.227	ug/L	98
6) Chloroethane	2.159	64	59784	7.175	ug/L	100
7) Trichlorofluoromethane	2.295	101	117927	6.286	ug/L	98
10) 1,1-Dichloroethene	2.760	96	70733	6.970	ug/L	94
11) Carbon disulfide	2.791	76	200348	7.004	ug/L	100
12) Freon-113	2.796	101	69366	7.120	ug/L	100
15) Methylene chloride	3.300	84	77728	9.137	ug/L	97
17) Acetone	3.340	43	14060	9.728	ug/L	97
18) trans-1,2-Dichloroethene	3.450	96	74139	9.317	ug/L	96
19) Methyl acetate	3.450	43	35841	9.945	ug/L	98
21) Methyl tert-butyl ether	3.551	73	177067	9.437	ug/L #	97
25) 1,1-Dichloroethane	4.021	63	140028	9.523	ug/L	99
30) cis-1,2-Dichloroethene	4.530	96	85109	9.178	ug/L	95
33) Bromochloromethane	4.719	128	39952	9.444	ug/L	96
34) Cyclohexane	4.723	56	123090	9.003	ug/L	98
35) Chloroform	4.798	83	137071	9.411	ug/L	98
37) Carbon tetrachloride	4.925	117	99583M6	9.240	ug/L	

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A02.D
Acq On : 7 Mar 2025 7:23 am
Operator : ELAINE:PID
Sample : WG2037848-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 07:50:18 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250307A\VE250307A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	4.986	97	107667	8.988	ug/L		98
42) 2-Butanone	5.074	43	24138	11.985	ug/L	#	82
45) Benzene	5.351	78	283278	8.835	ug/L		98
48) 1,2-Dichloroethane	5.553	62	95296	9.410	ug/L		98
51) Methyl cyclohexane	5.936	83	115063	8.079	ug/L		89
52) Trichloroethene	5.940	95	70029	9.000	ug/L		99
55) 1,2-Dichloropropane	6.479	63	73158	9.696	ug/L		98
58) Bromodichloromethane	6.551	83	100008	9.223	ug/L		99
62) cis-1,3-Dichloropropene	7.239	75	112510	9.585	ug/L		100
65) Toluene	7.502	92	175534	8.575	ug/L		97
66) 4-Methyl-2-pentanone	7.945	58	16477	9.438	ug/L		97
67) Tetrachloroethene	7.945	166	77844	9.885	ug/L		97
69) trans-1,3-Dichloropropene	7.990	75	88352	8.926	ug/L		98
72) 1,1,2-Trichloroethane	8.167	83	47470	9.235	ug/L		99
73) Chlorodibromomethane	8.379	129	64220	8.977	ug/L		96
75) 1,2-Dibromoethane	8.651	107	56925	9.675	ug/L		98
77) 2-Hexanone	8.945	43	26664	9.588	ug/L		97
78) Chlorobenzene	9.298	112	202194	8.682	ug/L		98
79) Ethylbenzene	9.339	91	346932	8.465	ug/L		99
81) p/m Xylene	9.524	106	282450	16.846	ug/L		98
82) o Xylene	10.072	106	279233	16.731	ug/L		99
83) Styrene	10.144	104	457529	16.094	ug/L		98
85) Bromoform	10.167	173	35036	8.561	ug/L		97
87) Isopropylbenzene	10.468	105	362073	9.023	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.059	83	63296	9.287	ug/L		97
105) 1,3-Dichlorobenzene	11.953	146	176274	9.050	ug/L		99
106) 1,4-Dichlorobenzene	12.046	146	170195	8.782	ug/L		99
109) 1,2-Dichlorobenzene	12.473	146	166575	9.104	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.257	155	9550	9.062	ug/L		95
114) 1,2,4-Trichlorobenzene	13.892	180	106229	9.207	ug/L		99
116) 1,2,3-Trichlorobenzene	14.354	180	95065	8.986	ug/L		99

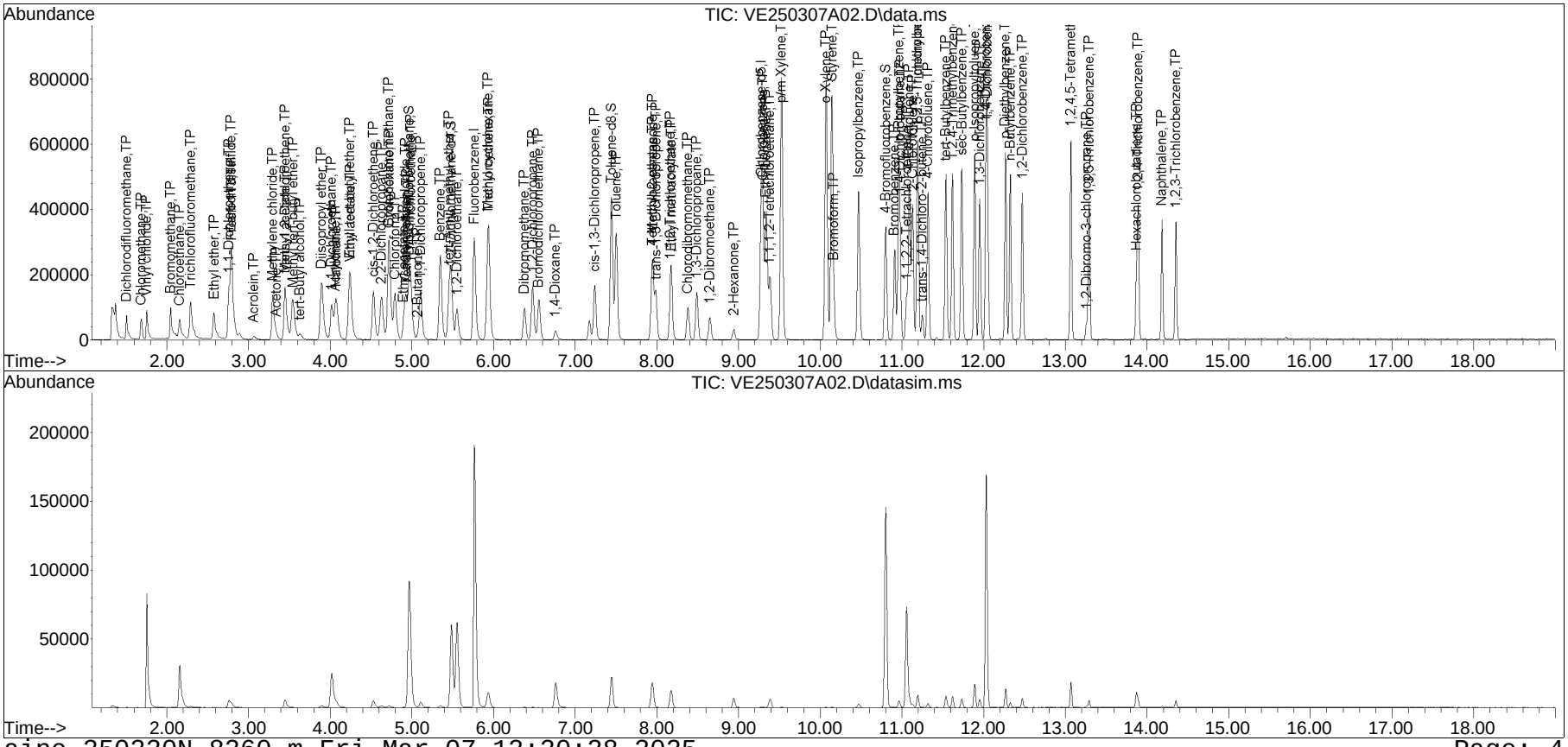
(#) = qualifier out of range (m) = manual integration (+) = signals summed

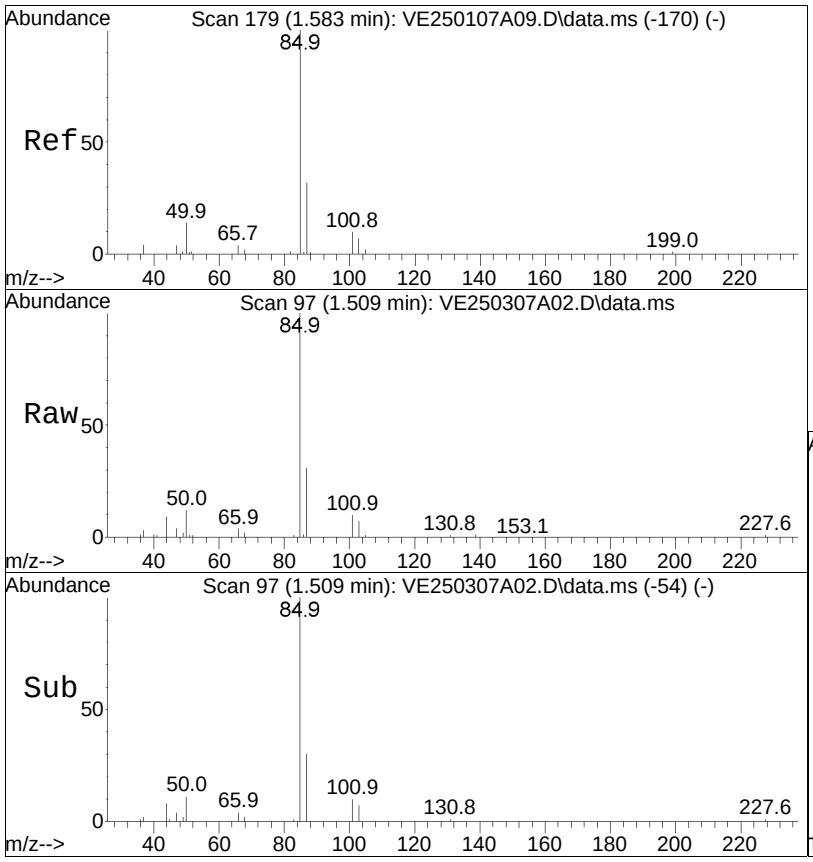
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A02.D
Acq On : 7 Mar 2025 7:23 am
Operator : ELAINE:PID
Sample : WG2037848-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2037848,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 07:50:18 2025
Quant Method : K:\Elaine\2025\250307A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

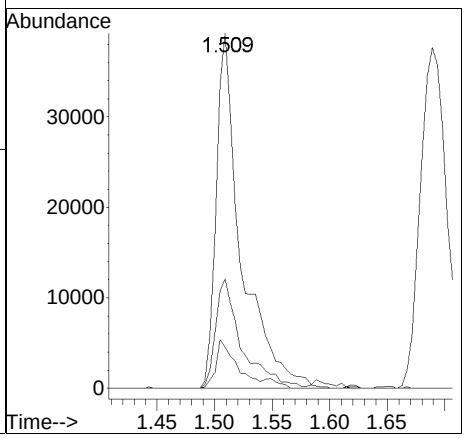


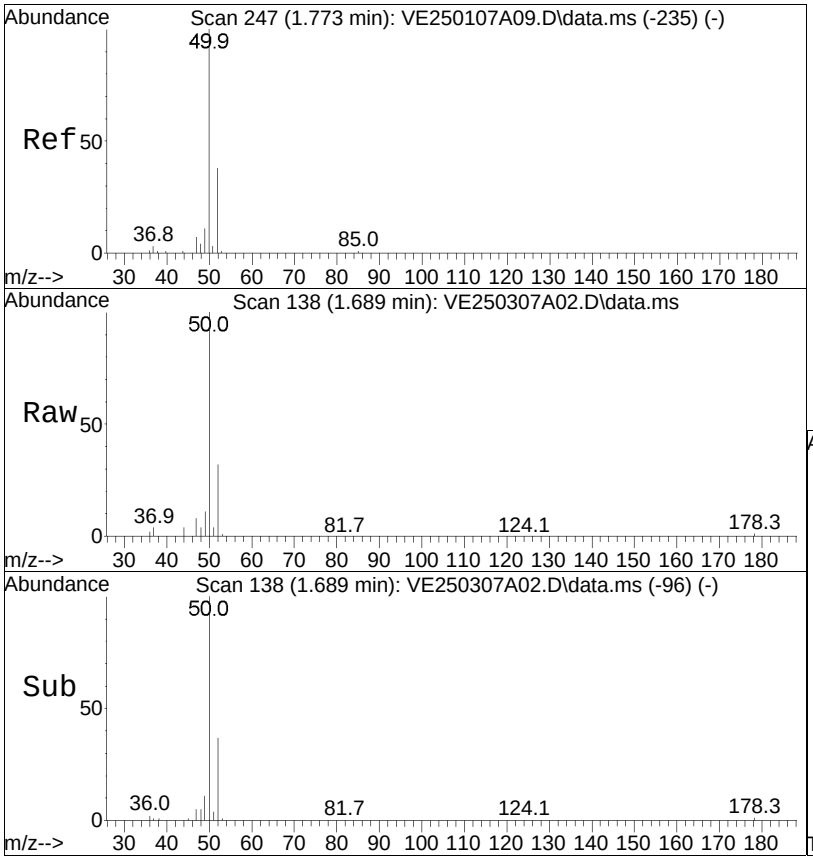


#2
Dichlorodifluoromethane
Concen: 6.49 ug/L
RT: 1.509 min Scan# 97
Delta R.T. -0.013 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 85 Resp: 60318

Ion	Ratio	Lower	Upper
85	100		
87	32.3	21.1	43.7
50	13.0	8.3	17.1

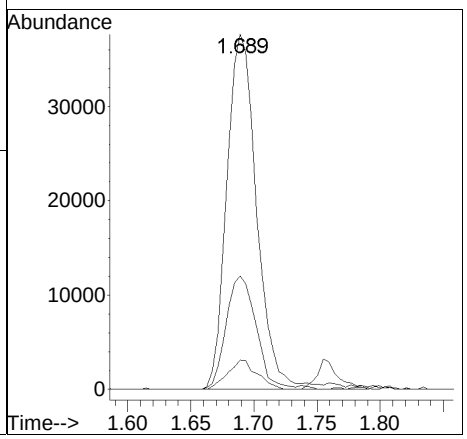


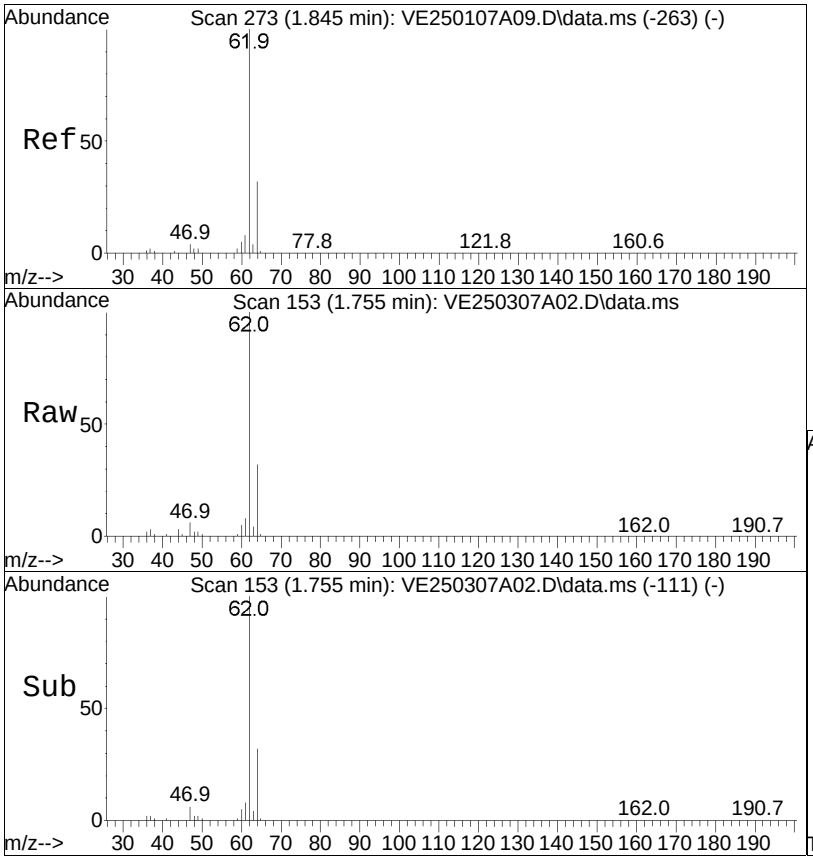


#3
Chloromethane
Concen: 7.51 ug/L
RT: 1.689 min Scan# 138
Delta R.T. -0.014 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 50 Resp: 62969

Ion	Ratio	Lower	Upper
50	100		
52	31.9	12.5	52.5
47	8.1	0.0	27.7

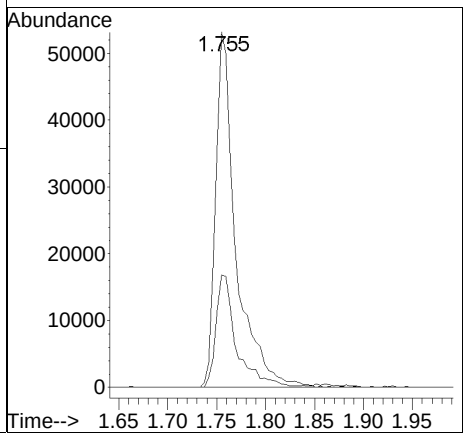


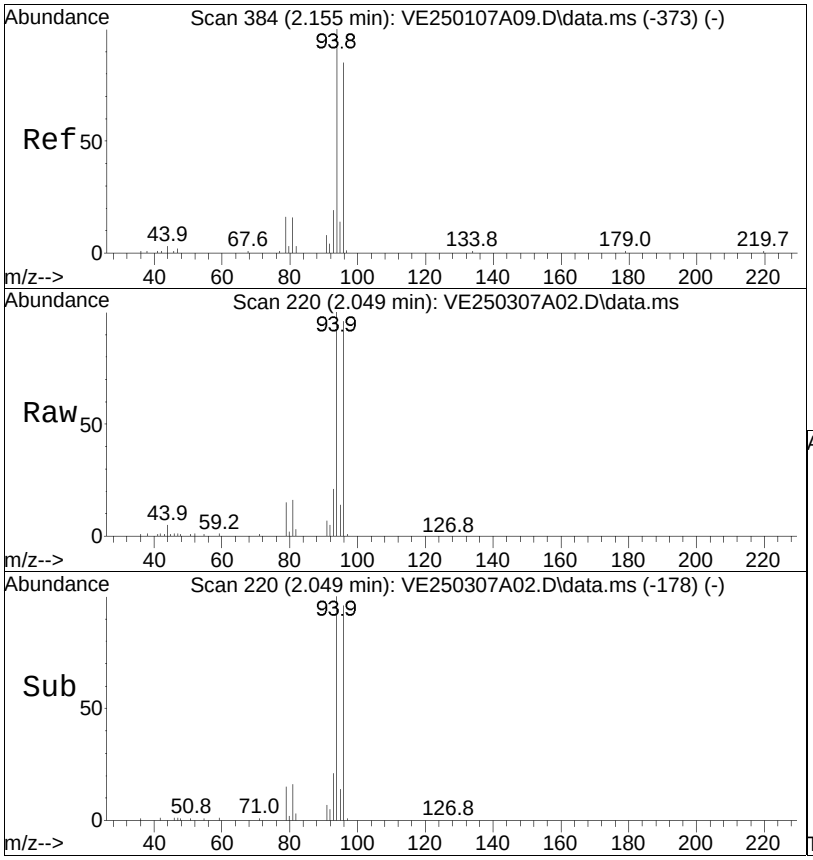


#4
Vinyl chloride
Concen: 7.14 ug/L
RT: 1.755 min Scan# 153
Delta R.T. -0.015 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 62 Resp: 77679

Ion	Ratio	Lower	Upper
62	100		
64	32.1	12.1	52.1

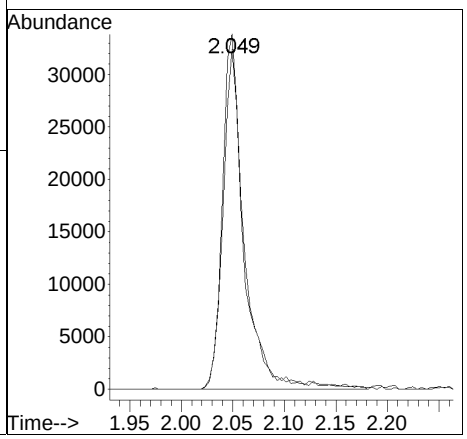


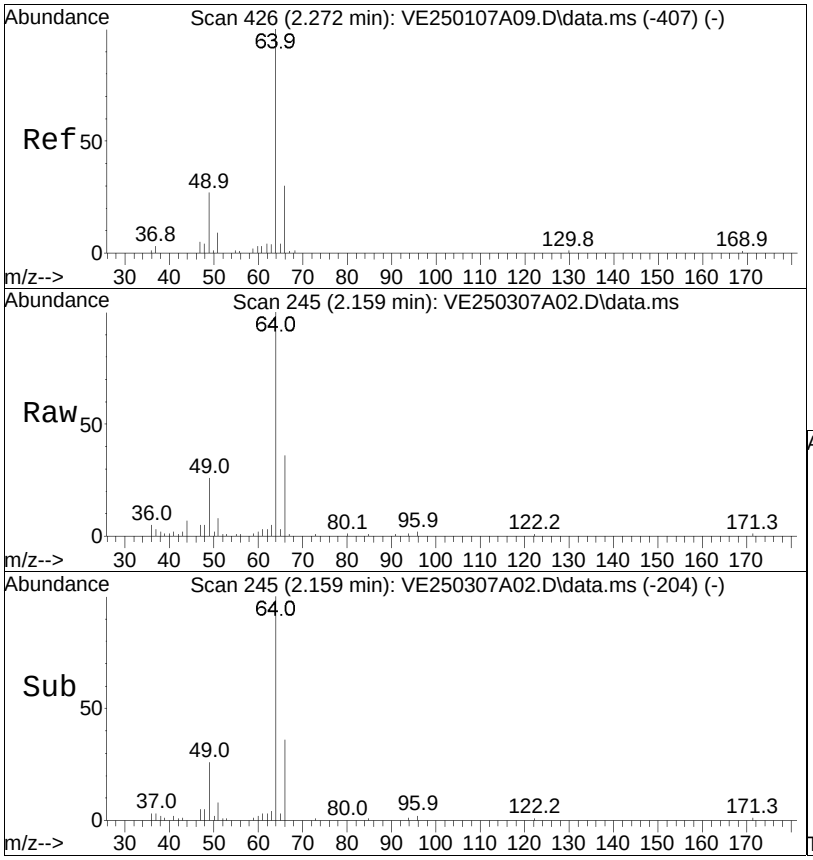


#5
Bromomethane
Concen: 5.23 ug/L
RT: 2.049 min Scan# 220
Delta R.T. -0.017 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 94 Resp: 50211

Ion	Ratio	Lower	Upper
94	100		
96	93.2	71.2	111.2

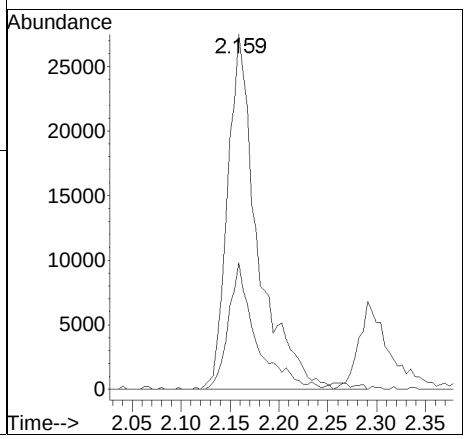


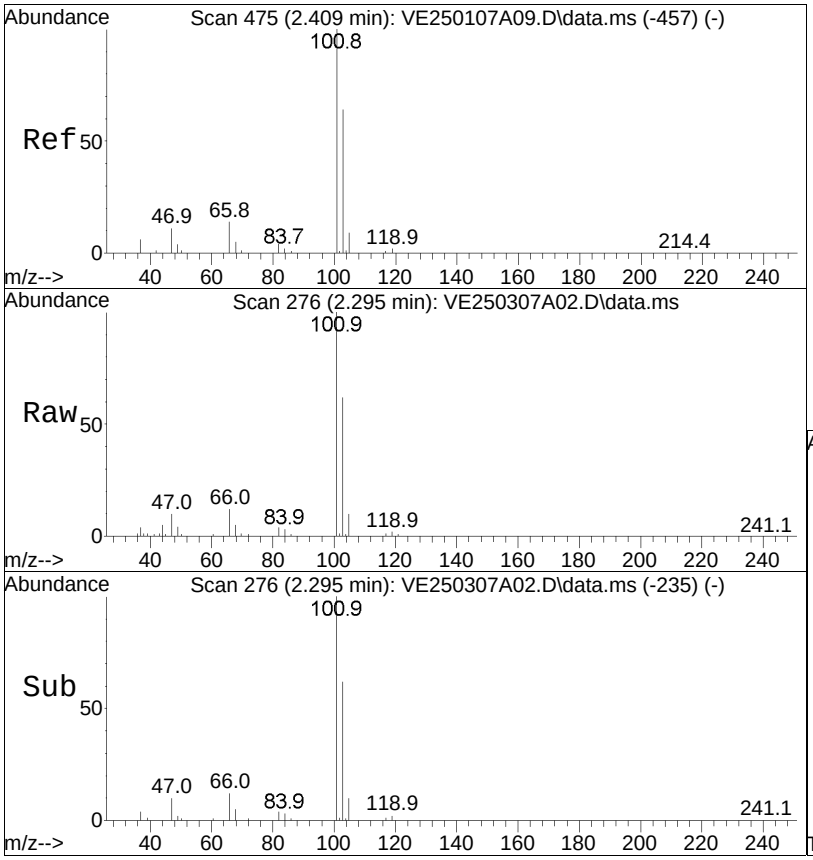


#6
Chloroethane
Concen: 7.18 ug/L
RT: 2.159 min Scan# 245
Delta R.T. -0.021 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 64 Resp: 59784

Ion	Ratio	Lower	Upper
64	100		
66	32.6	12.5	52.5

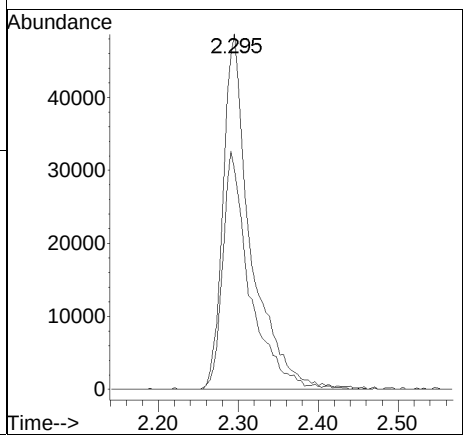


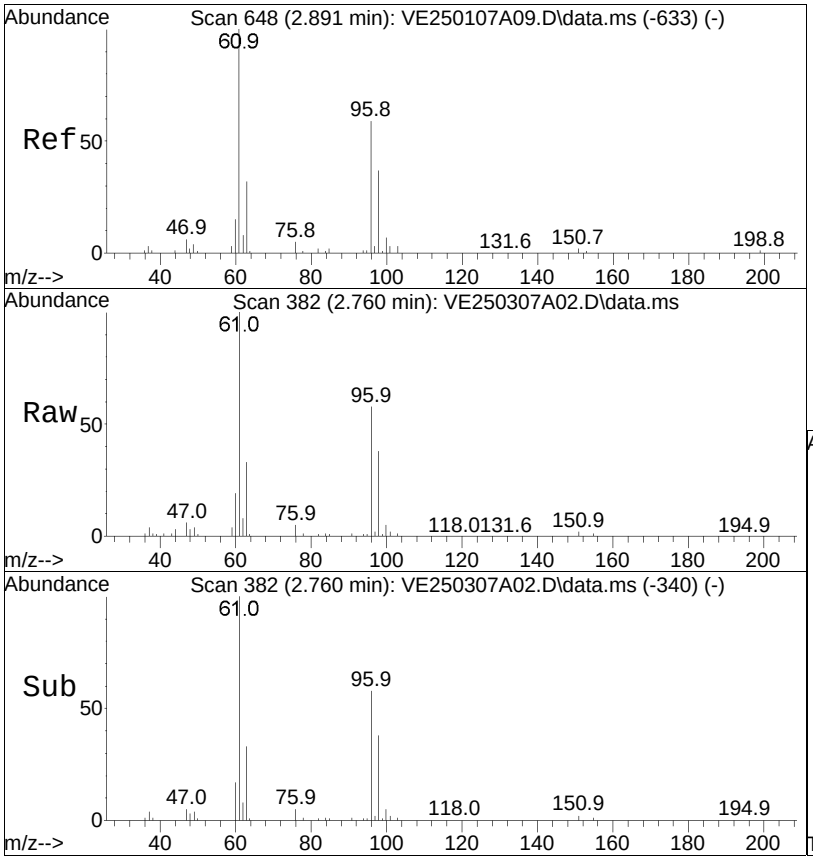


#7
Trichlorofluoromethane
Concen: 6.29 ug/L
RT: 2.295 min Scan# 276
Delta R.T. -0.019 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:101 Resp: 117927

Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.4	77.0

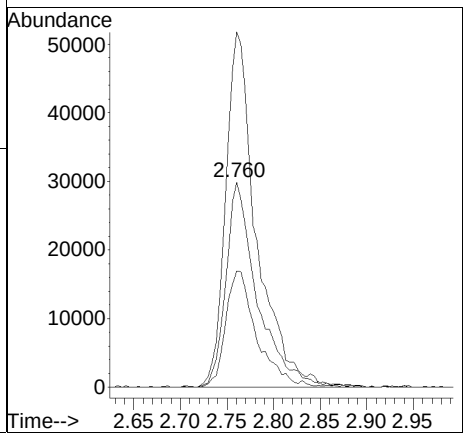


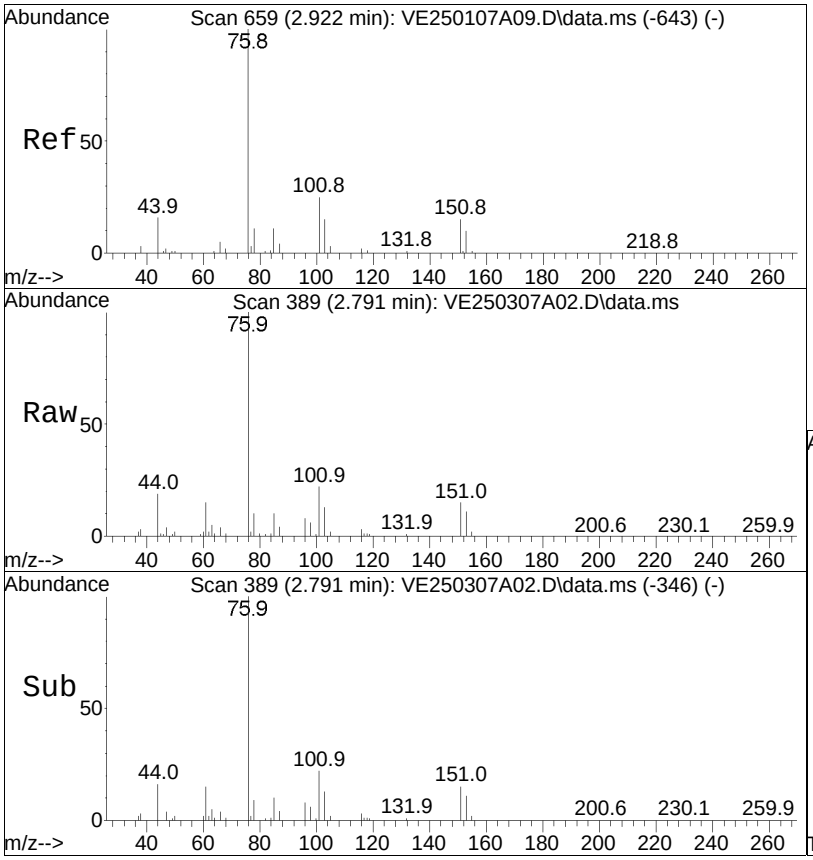


#10
1,1-Dichloroethene
Concen: 6.97 ug/L
RT: 2.760 min Scan# 382
Delta R.T. -0.016 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 96 Resp: 70733

Ion	Ratio	Lower	Upper
96	100		
61	169.3	129.0	193.6
63	56.4	41.7	62.5

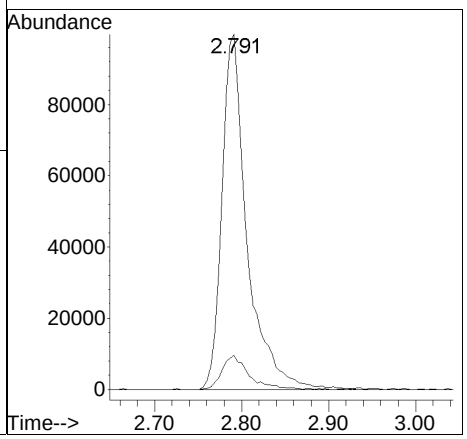


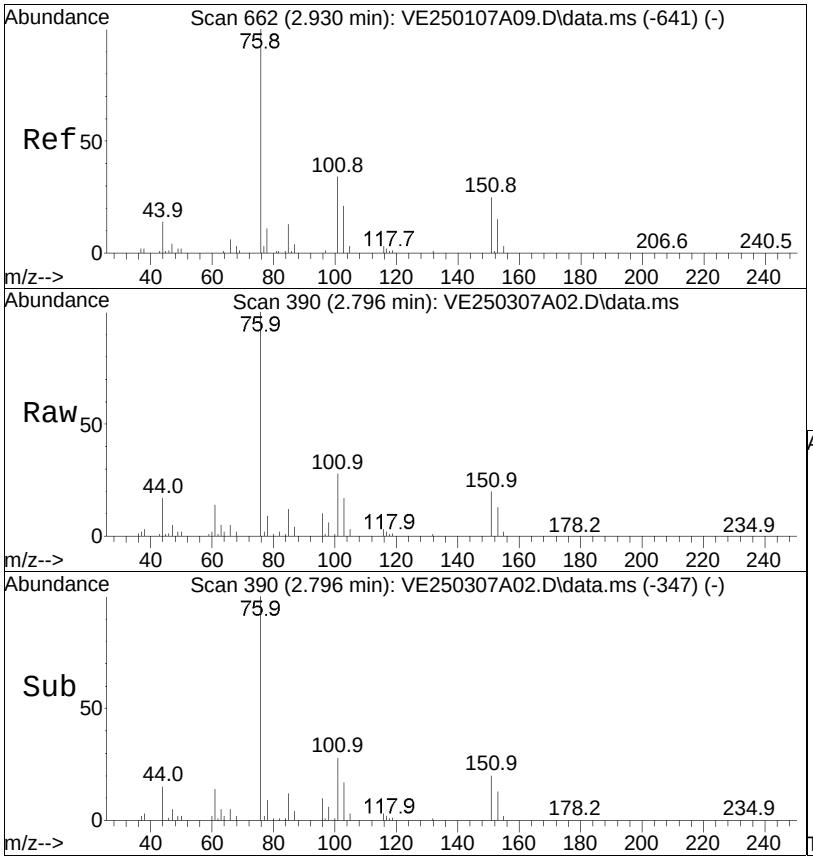


#11
Carbon disulfide
Concen: 7.00 ug/L
RT: 2.791 min Scan# 389
Delta R.T. -0.011 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 76 Resp: 200348

Ion	Ratio	Lower	Upper
76	100		
78	10.2	6.7	13.9

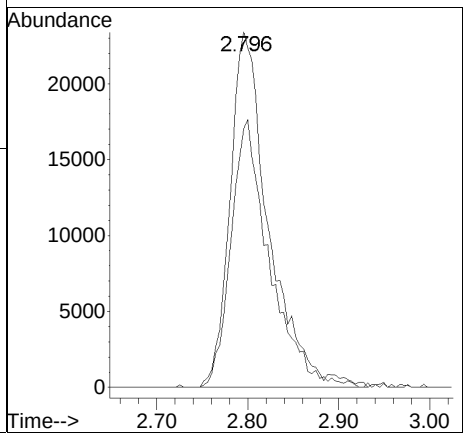


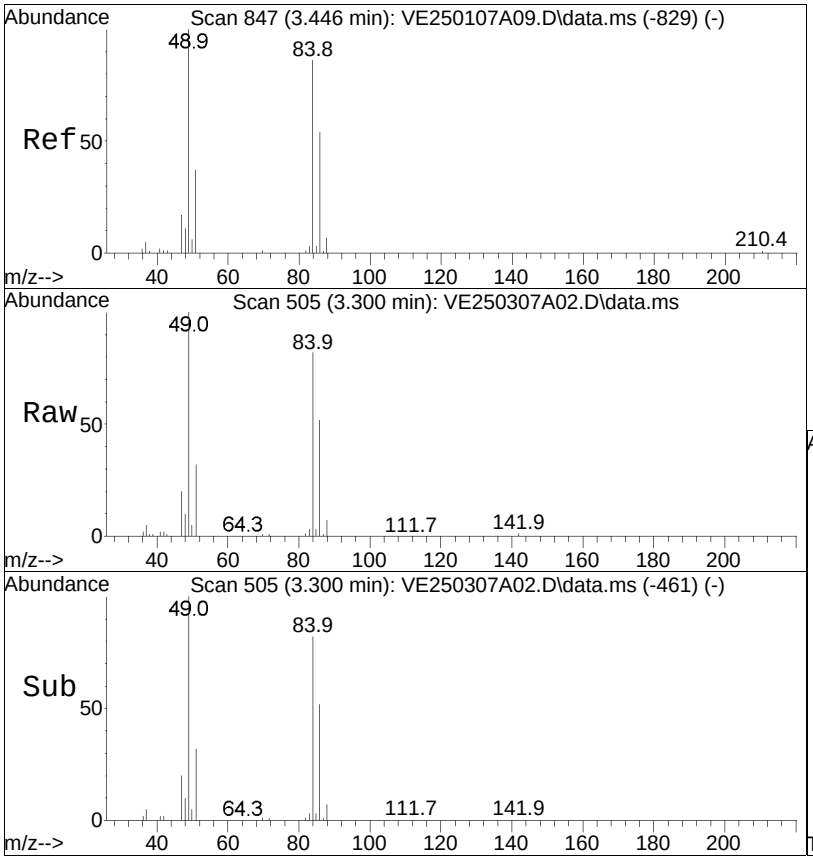


#12
Freon-113
Concen: 7.12 ug/L
RT: 2.796 min Scan# 390
Delta R.T. -0.011 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:101 Resp: 69366

Ion	Ratio	Lower	Upper
101	100		
151	75.0	60.1	90.1

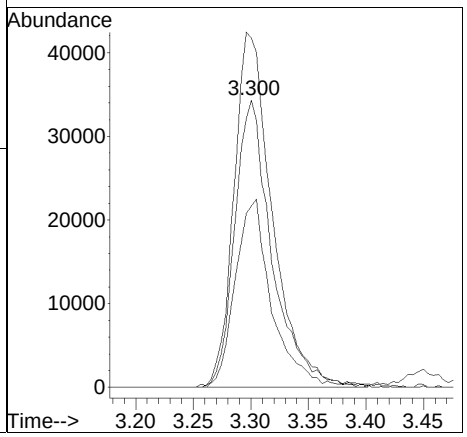


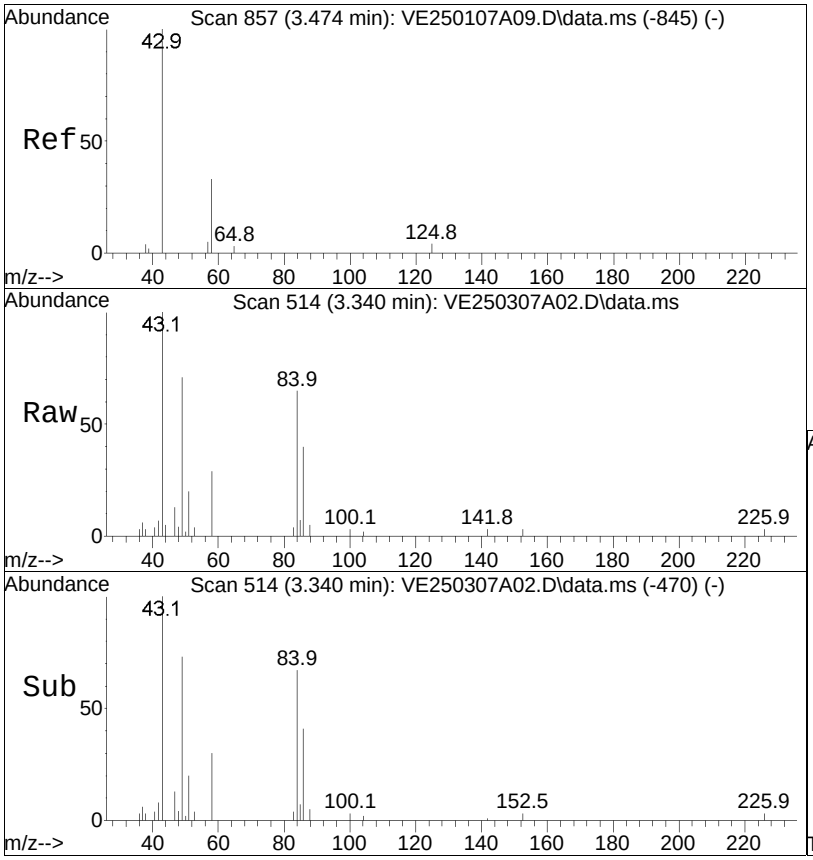


#15
Methylene chloride
Concen: 9.14 ug/L
RT: 3.300 min Scan# 505
Delta R.T. -0.009 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 84 Resp: 77728

Ion	Ratio	Lower	Upper
84	100		
86	63.9	42.1	87.3
49	127.7	79.9	165.9

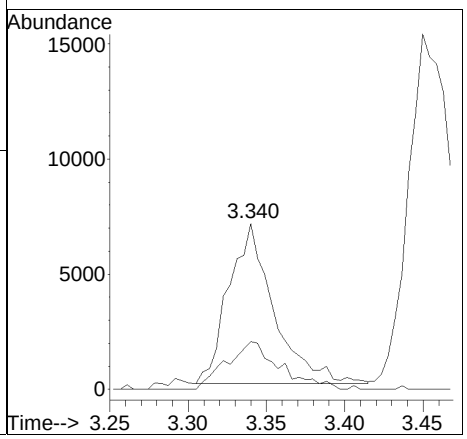


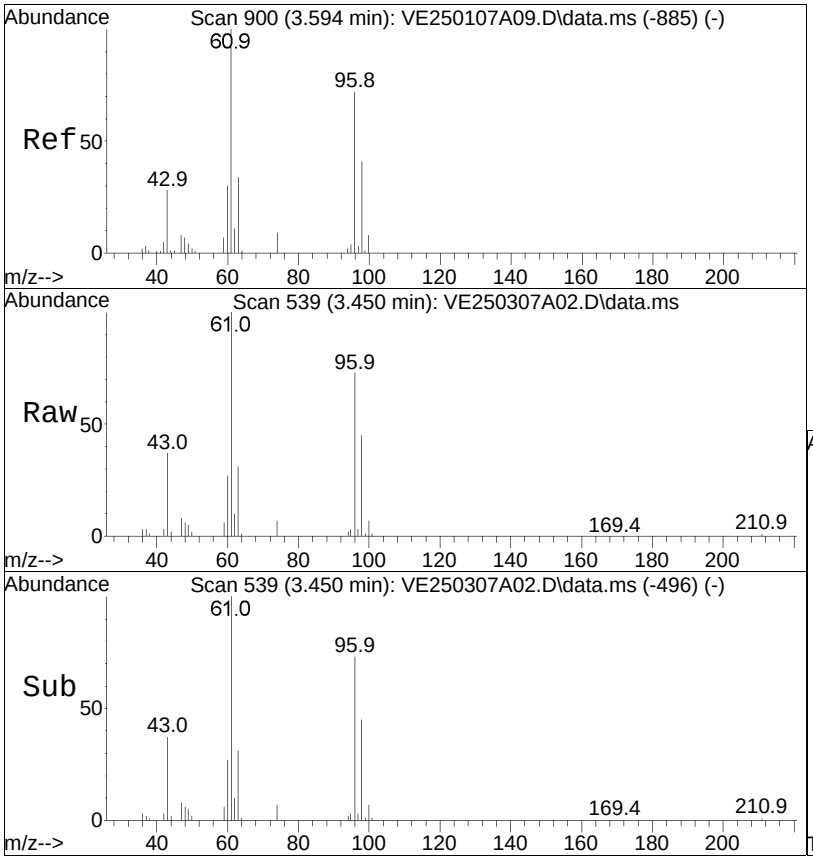


#17
Acetone
Concen: 9.73 ug/L
RT: 3.340 min Scan# 514
Delta R.T. -0.008 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 43 Resp: 14060

Ion	Ratio	Lower	Upper
43	100		
58	35.0	26.6	40.0

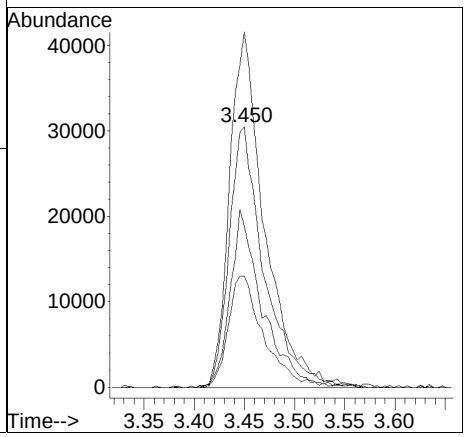


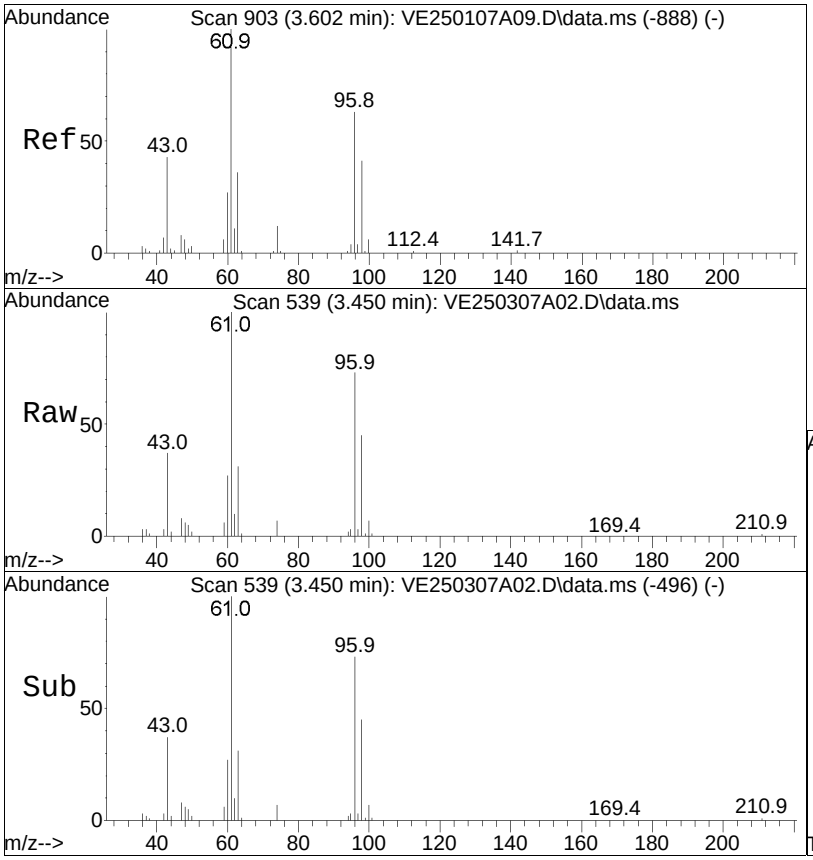


#18
trans-1,2-Dichloroethene
Concen: 9.32 ug/L
RT: 3.450 min Scan# 539
Delta R.T. -0.013 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 96 Resp: 74139

Ion	Ratio	Lower	Upper
96	100		
61	136.2	84.8	176.2
98	62.9	42.0	87.2
63	43.8	26.4	54.8

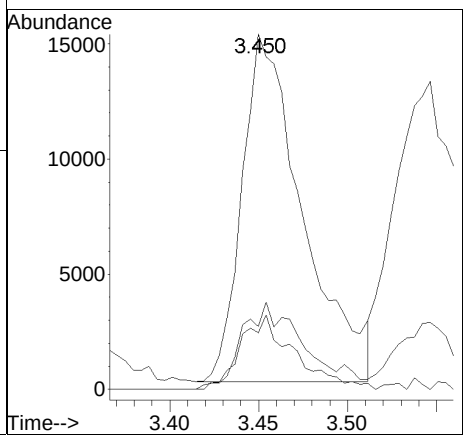


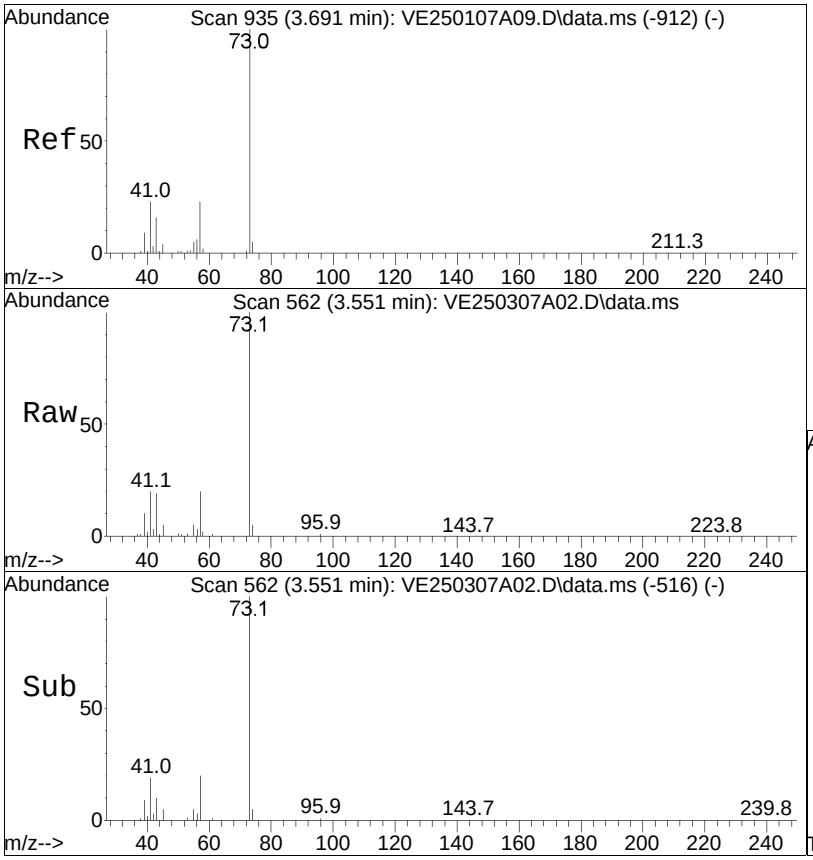


#19
Methyl acetate
Concen: 9.95 ug/L
RT: 3.450 min Scan# 539
Delta R.T. -0.013 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 43 Resp: 35841

Ion	Ratio	Lower	Upper
43	100		
74	25.9	21.0	31.4
59	19.1	16.6	24.8

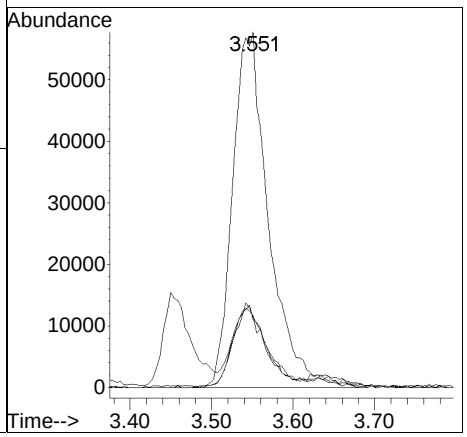


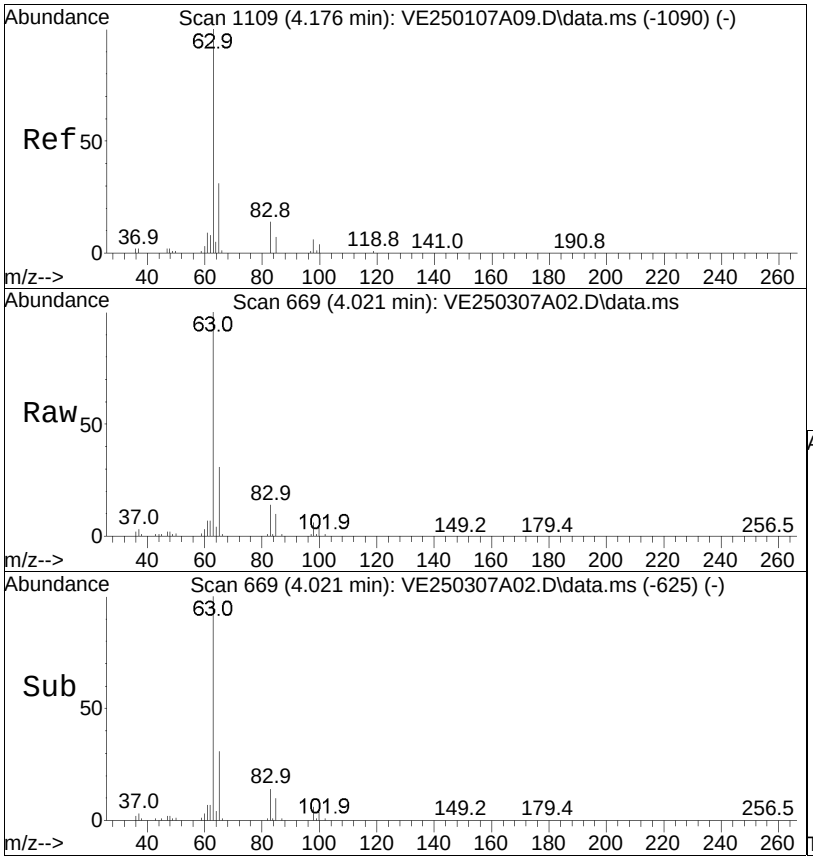


#21
Methyl tert-butyl ether
Concen: 9.44 ug/L
RT: 3.551 min Scan# 562
Delta R.T. 0.002 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 73 Resp: 177067

Ion	Ratio	Lower	Upper
73	100		
57	23.4	15.2	31.6
43	24.6	0.0	0.0#
41	24.7	14.4	30.0

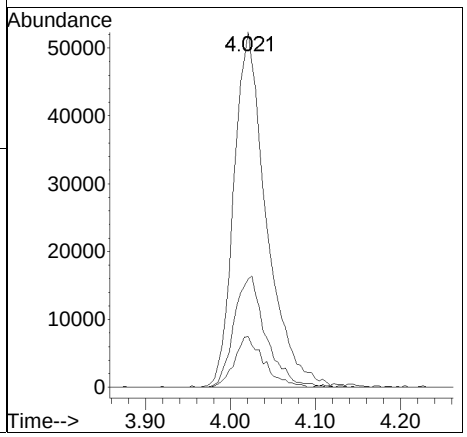


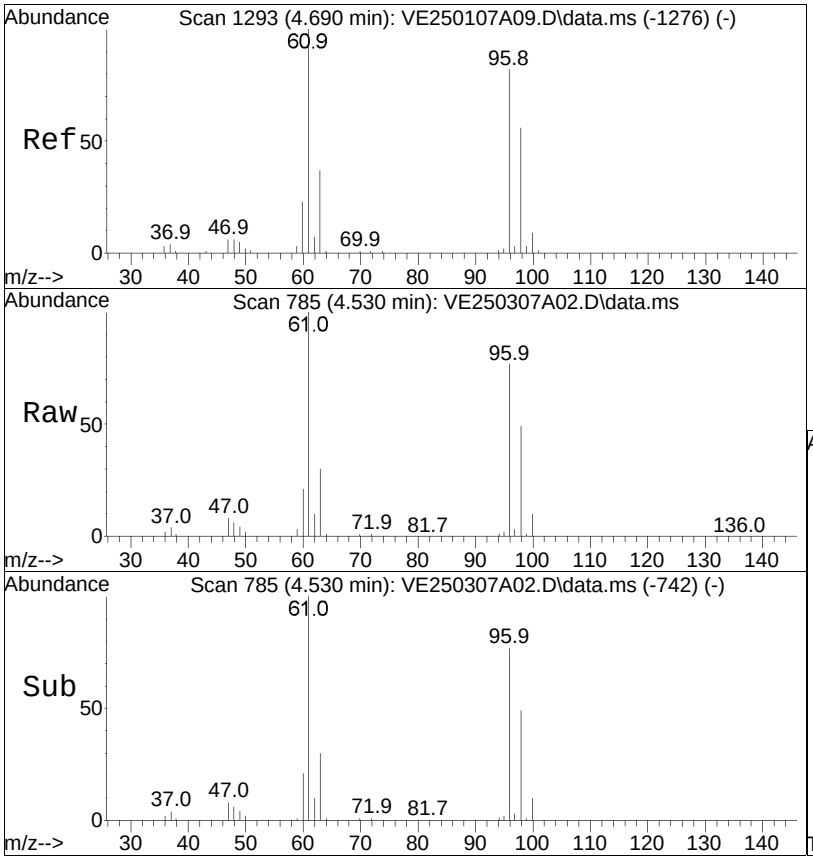


#25
1,1-Dichloroethane
Concen: 9.52 ug/L
RT: 4.021 min Scan# 669
Delta R.T. -0.008 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 63 Resp: 140028

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.7	51.7
83	13.0	0.0	33.3

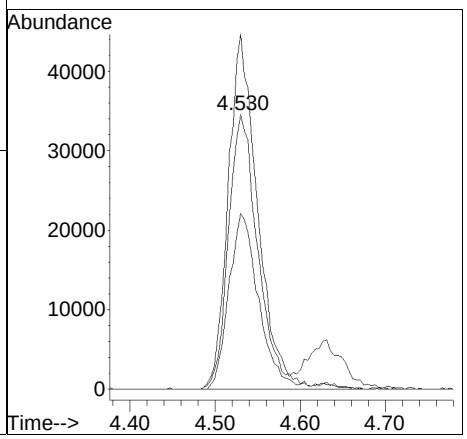


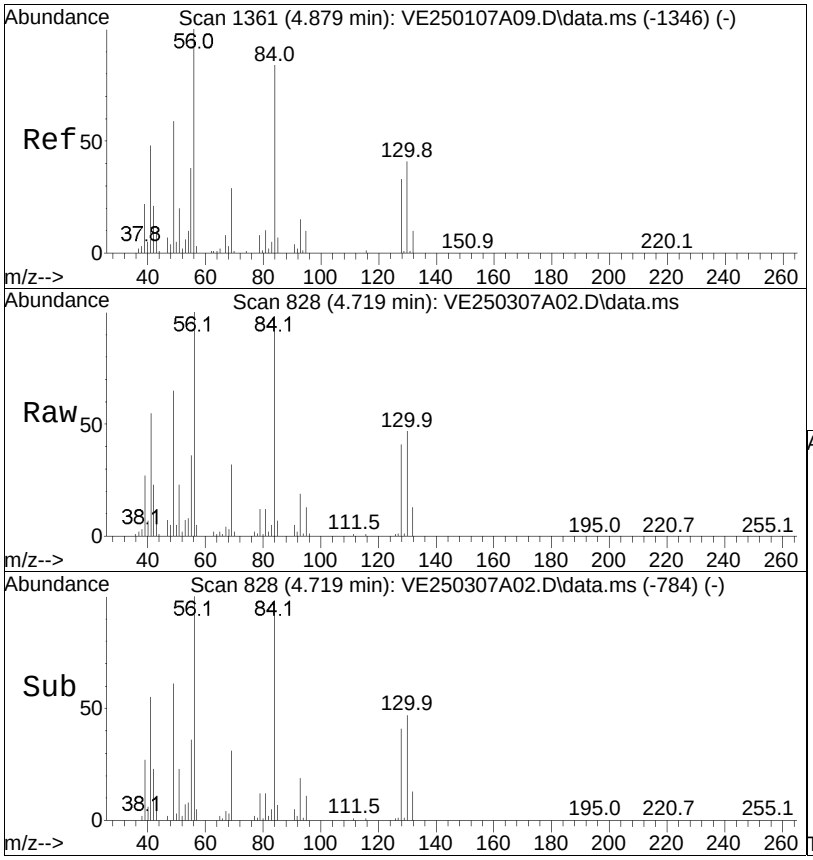


#30
cis-1,2-Dichloroethene
Concen: 9.18 ug/L
RT: 4.530 min Scan# 785
Delta R.T. -0.009 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 96 Resp: 85109

Ion	Ratio	Lower	Upper
96	100		
61	146.1	111.0	166.6
98	65.3	50.3	75.5

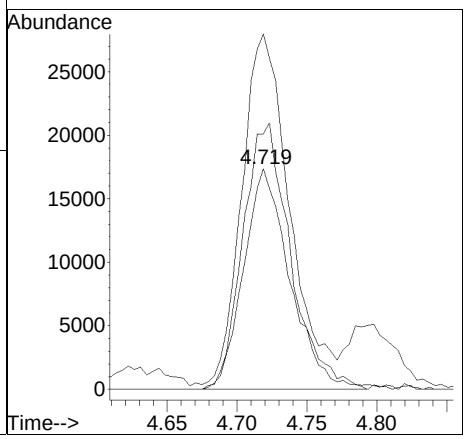


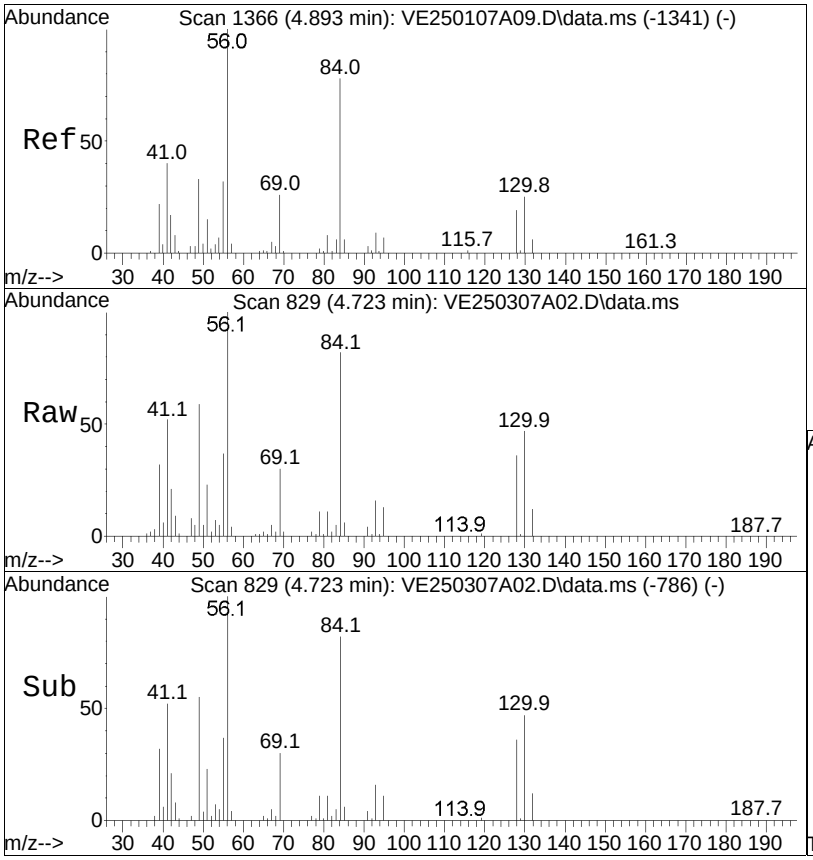


#33
Bromochloromethane
Concen: 9.44 ug/L
RT: 4.719 min Scan# 828
Delta R.T. -0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:128 Resp: 39952

Ion	Ratio	Lower	Upper
128	100		
49	200.0	152.6	228.8
130	125.3	101.8	152.6

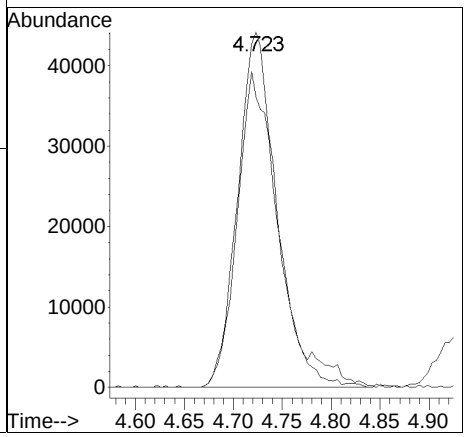


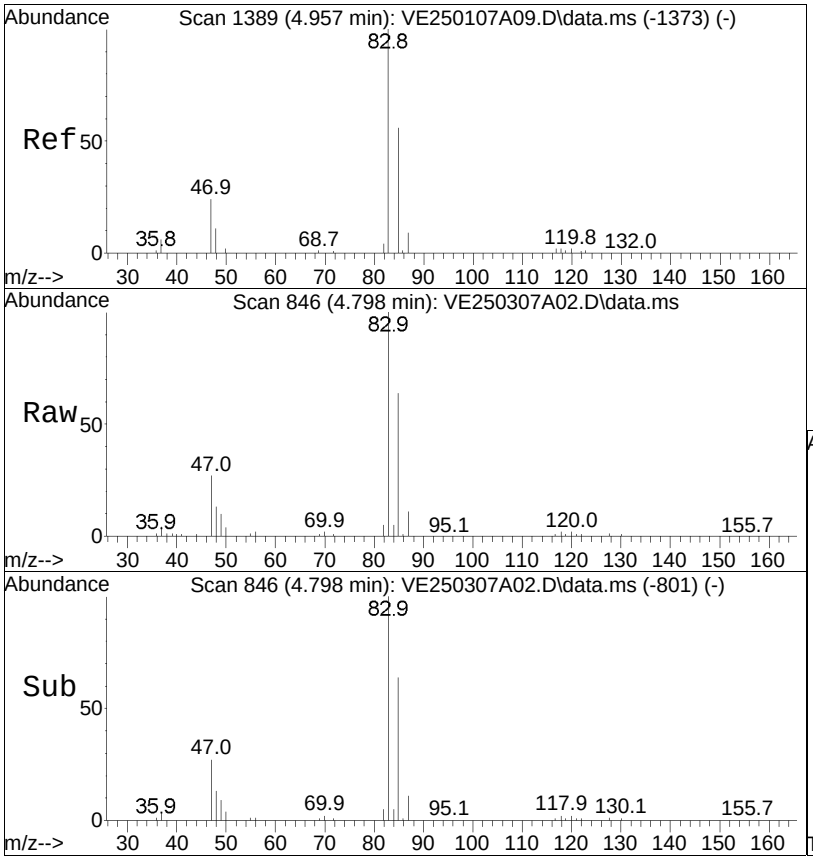


#34
Cyclohexane
Concen: 9.00 ug/L
RT: 4.723 min Scan# 829
Delta R.T. -0.011 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 56 Resp: 123090

Ion	Ratio	Lower	Upper
56	100		
84	95.0	62.9	130.7

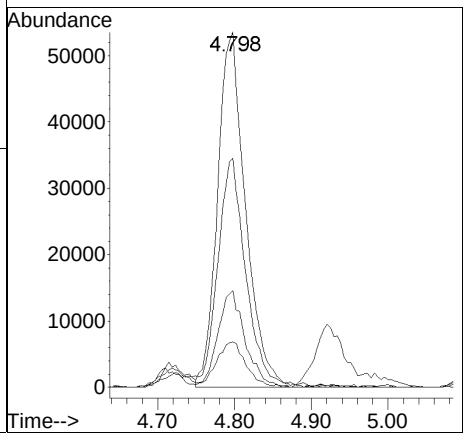


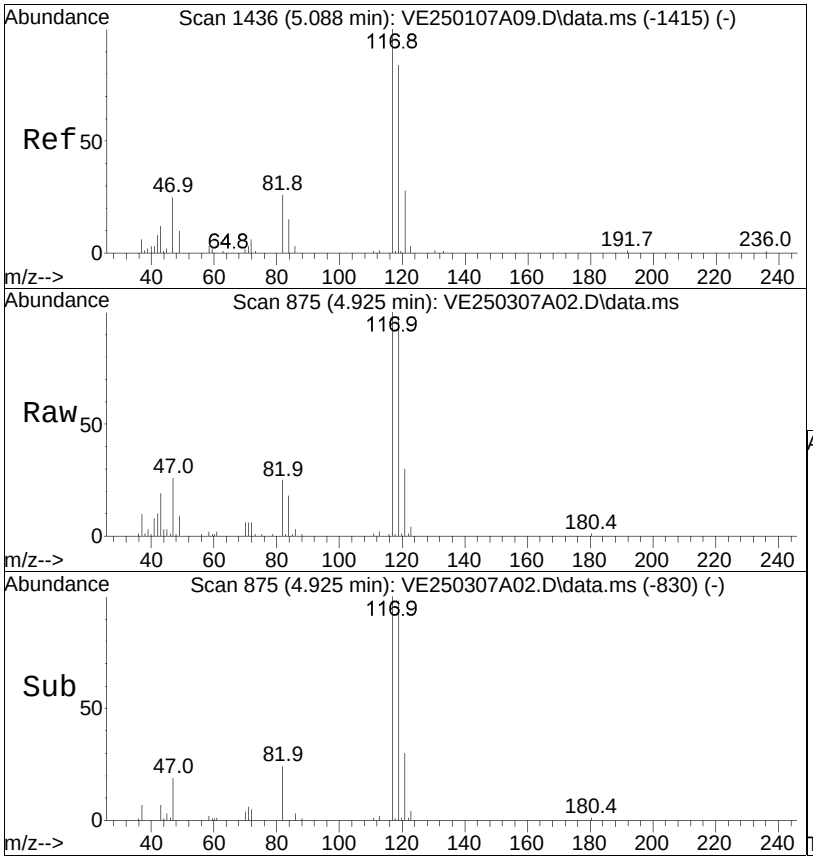


#35
Chloroform
Concen: 9.41 ug/L
RT: 4.798 min Scan# 846
Delta R.T. -0.004 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 83 Resp: 137071

Ion	Ratio	Lower	Upper
83	100		
85	63.2	42.5	88.3
47	26.3	16.8	35.0
48	13.5	9.2	19.2

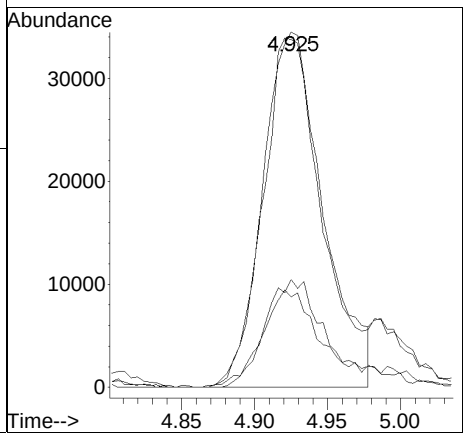


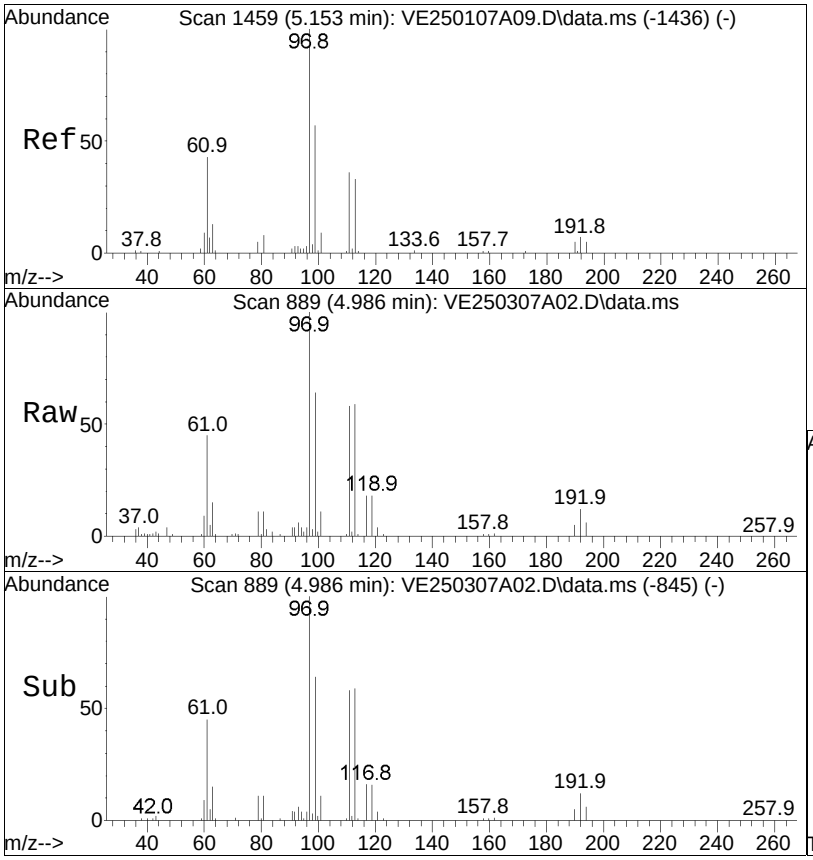


#37
Carbon tetrachloride
Concen: 9.24 ug/L M6
RT: 4.925 min Scan# 875
Delta R.T. -0.005 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:117 Resp: 99583

Ion	Ratio	Lower	Upper
117	100		
119	108.6	70.2	145.8
121	33.9	22.9	47.7
82	29.7	19.7	40.9

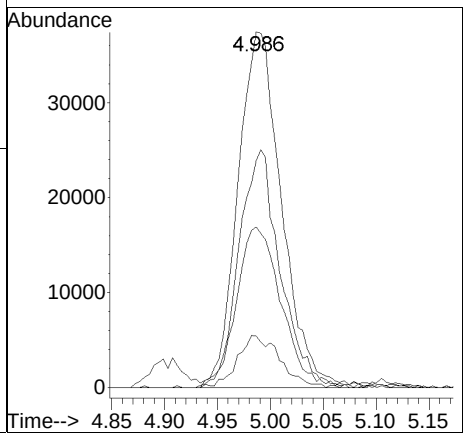


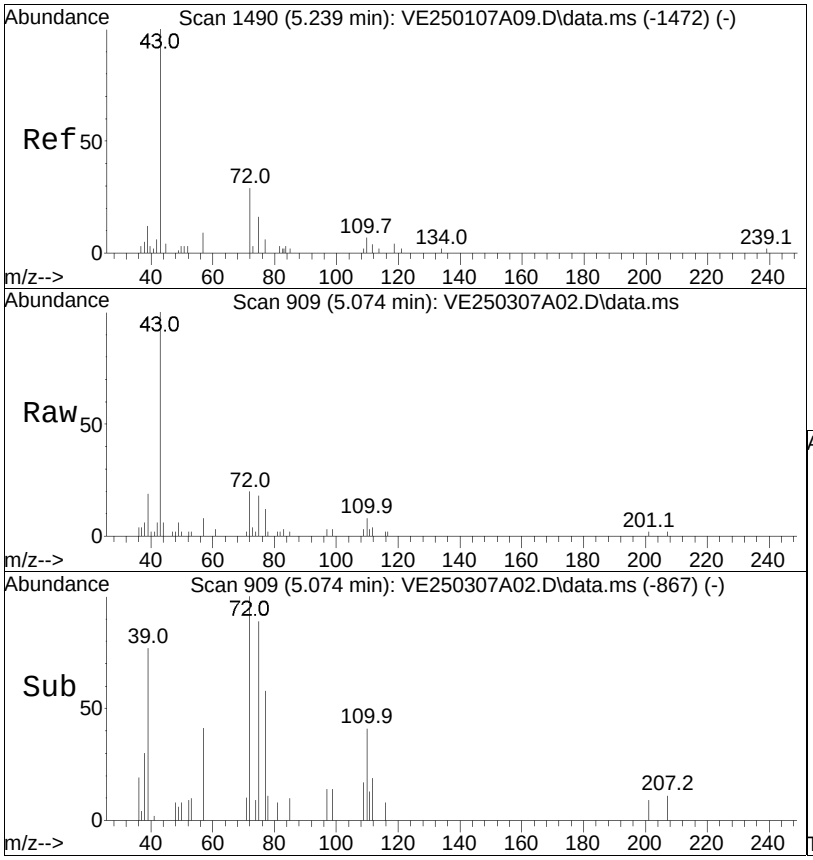


#40
1,1,1-Trichloroethane
Concen: 8.99 ug/L
RT: 4.986 min Scan# 889
Delta R.T. -0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 97 Resp: 107667

Ion	Ratio	Lower	Upper
97	100		
99	63.5	42.4	88.2
61	46.1	29.0	60.2
63	14.2	9.4	19.6

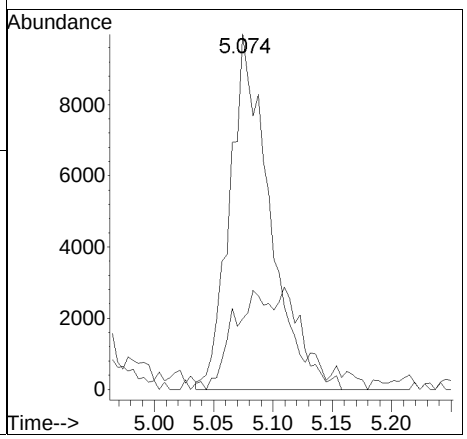


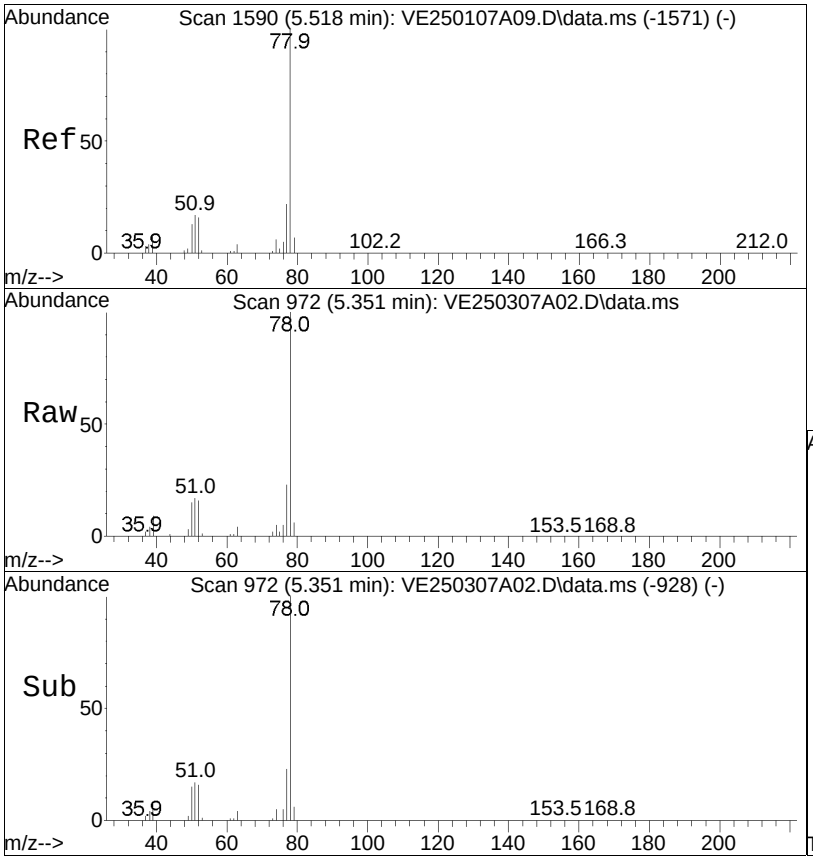


#42
2-Butanone
Concen: 11.99 ug/L
RT: 5.074 min Scan# 909
Delta R.T. -0.014 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 43 Resp: 24138

Ion	Ratio	Lower	Upper
43	100		
72	42.7	44.9	67.3#

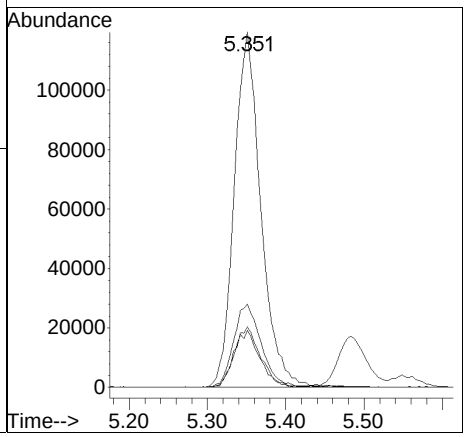


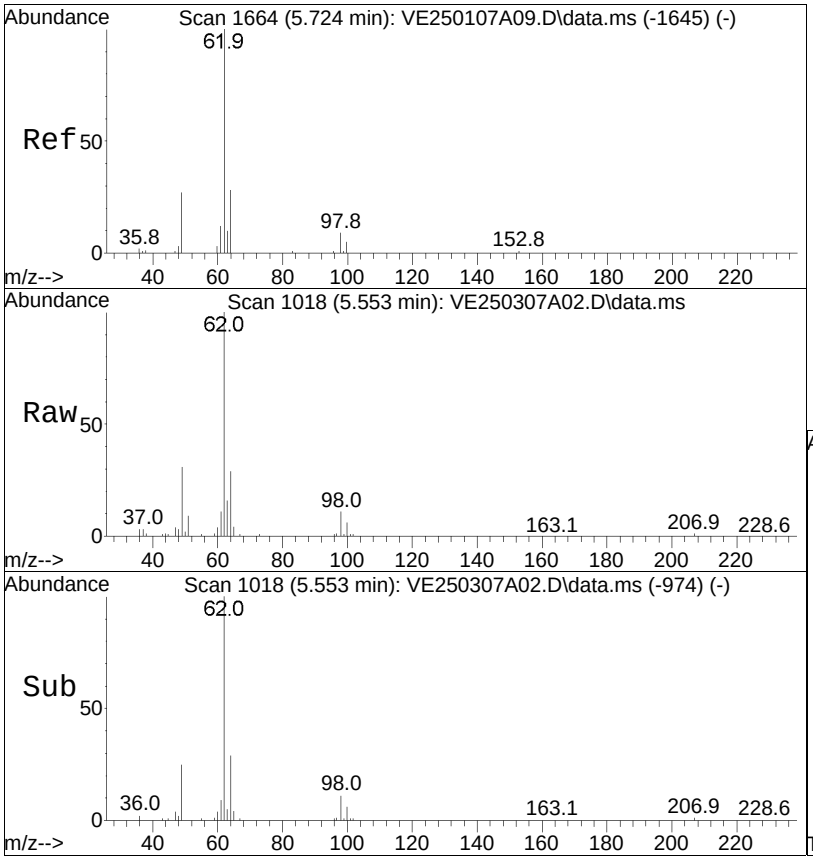


#45
Benzene
Concen: 8.83 ug/L
RT: 5.351 min Scan# 972
Delta R.T. -0.008 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 78 Resp: 283278

Ion	Ratio	Lower	Upper
78	100		
77	24.3	15.3	31.9
51	17.2	10.9	22.5
52	15.9	9.6	19.8

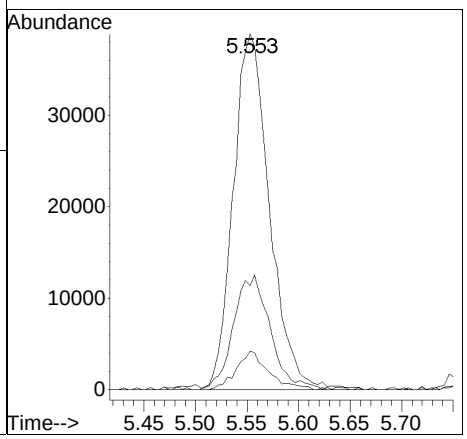


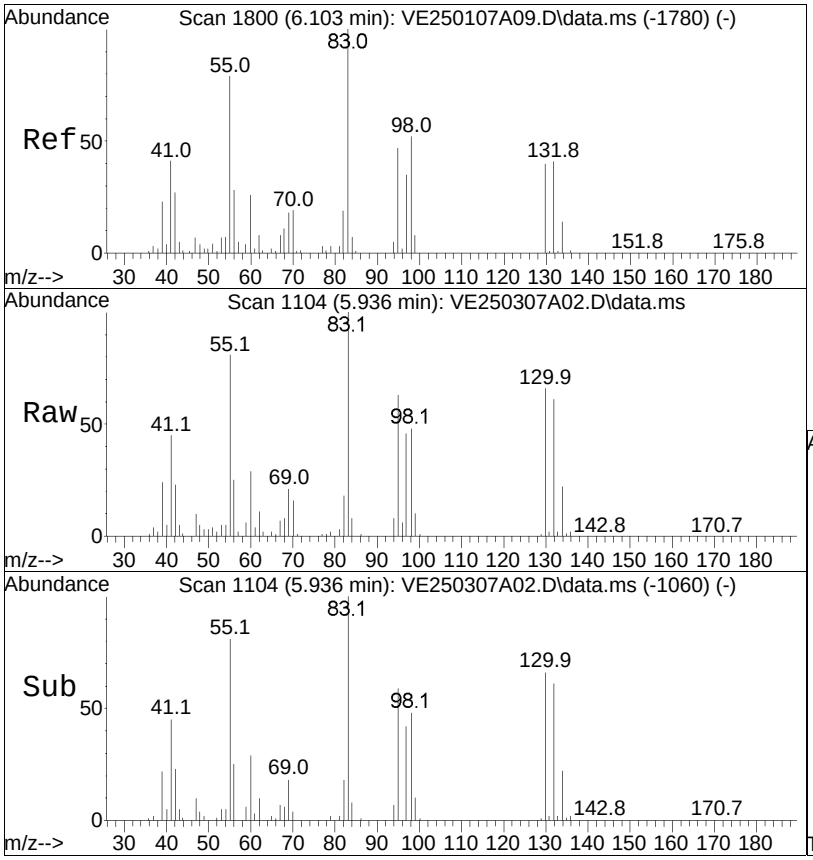


#48
1,2-Dichloroethane
Concen: 9.41 ug/L
RT: 5.553 min Scan# 1018
Delta R.T. -0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 62 Resp: 95296

Ion	Ratio	Lower	Upper
62	100		
64	32.2	13.2	53.2
98	9.4	0.0	29.9

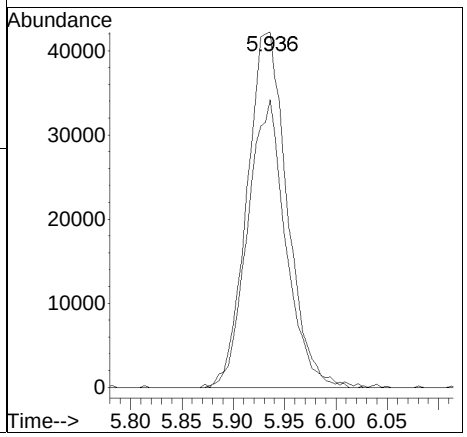


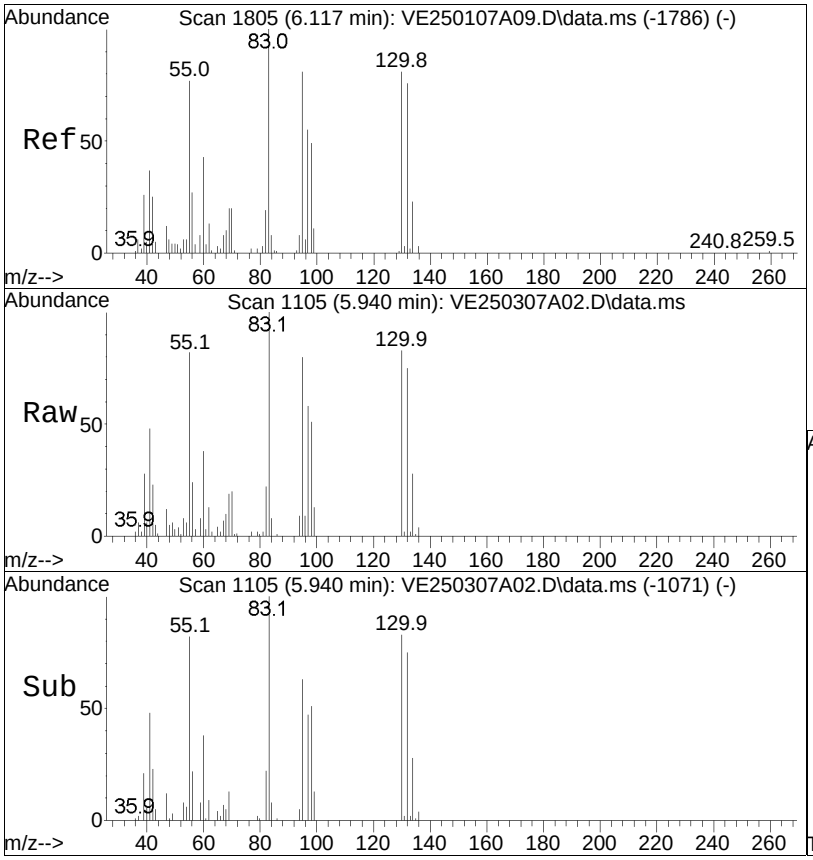


#51
Methyl cyclohexane
Concen: 8.08 ug/L
RT: 5.936 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 83 Resp: 115063

Ion	Ratio	Lower	Upper
83	100		
55	77.0	54.4	81.6

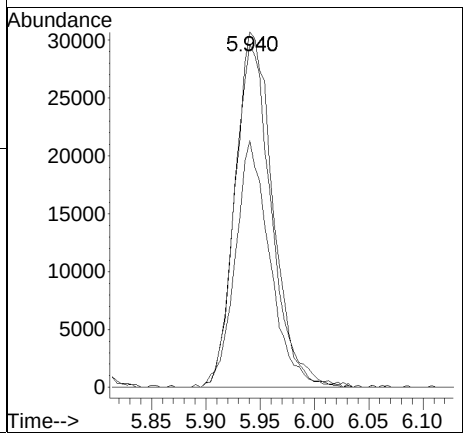


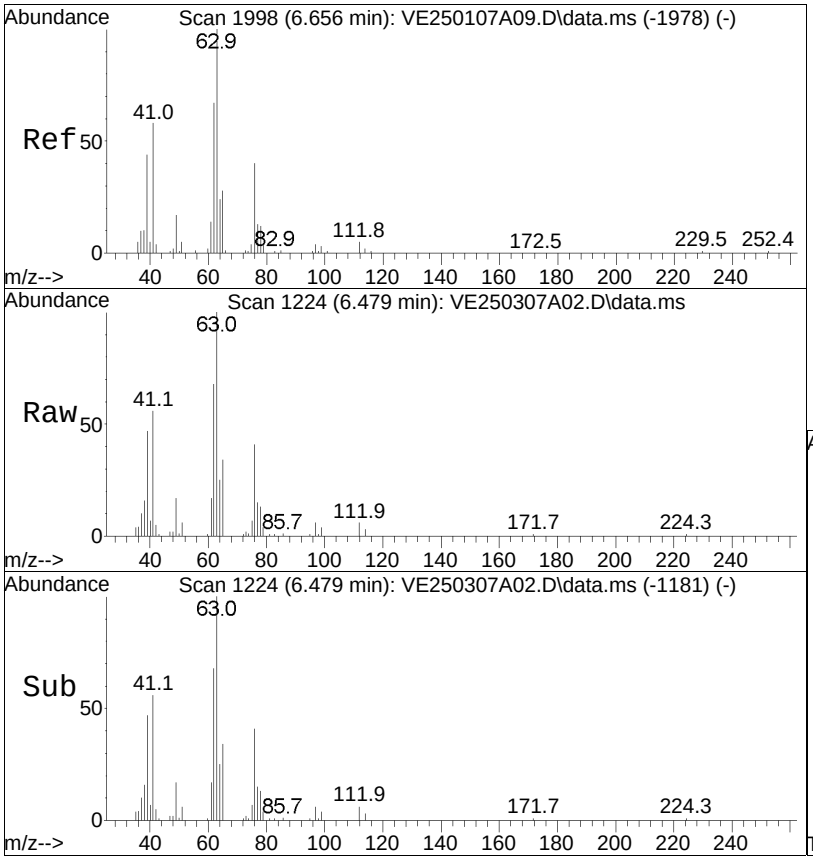


#52
Trichloroethene
Concen: 9.00 ug/L
RT: 5.940 min Scan# 1105
Delta R.T. -0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 95 Resp: 70029

Ion	Ratio	Lower	Upper
95	100		
97	67.8	54.3	81.5
130	105.4	82.5	123.7

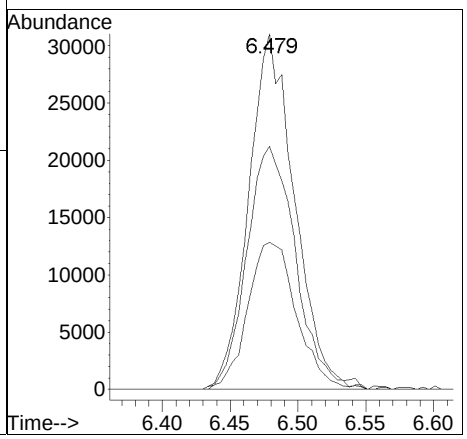


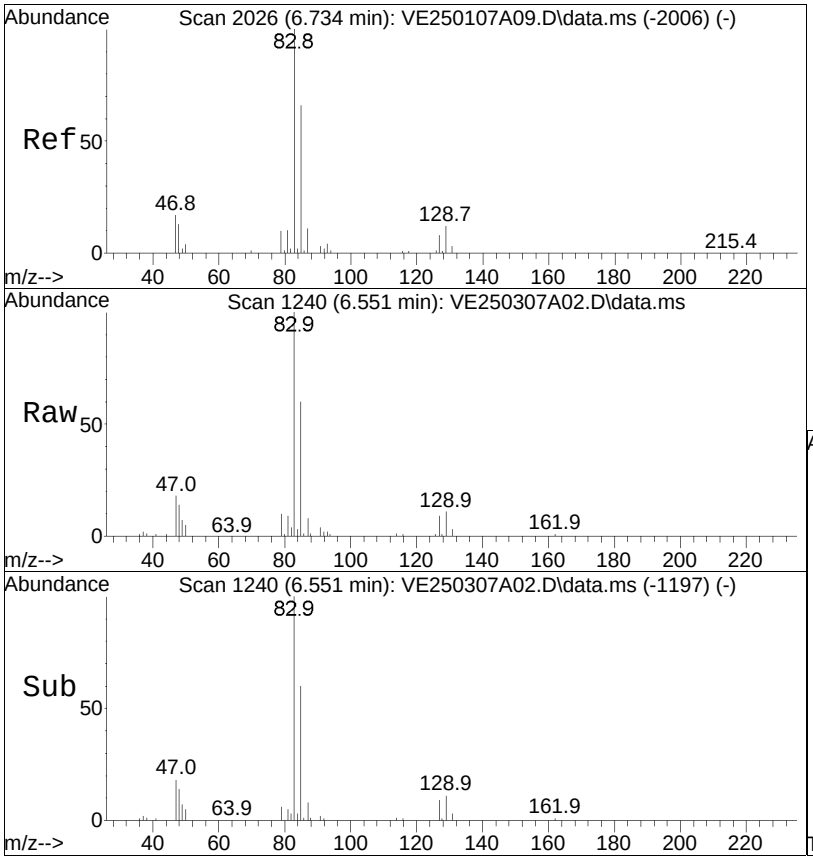


#55
1,2-Dichloropropane
Concen: 9.70 ug/L
RT: 6.479 min Scan# 1224
Delta R.T. -0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 63 Resp: 73158

Ion	Ratio	Lower	Upper
63	100		
62	72.7	56.2	84.4
76	44.0	34.8	52.2

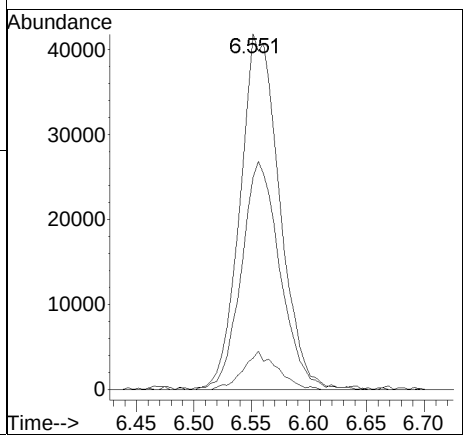


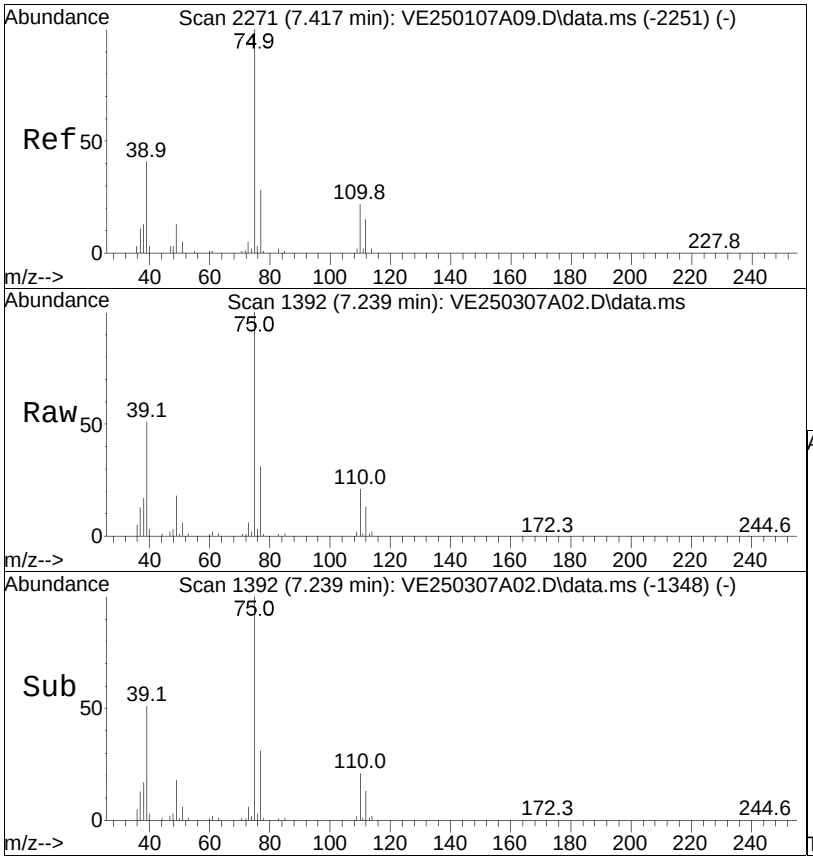


#58
Bromodichloromethane
Concen: 9.22 ug/L
RT: 6.551 min Scan# 1240
Delta R.T. -0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 83 Resp: 100008

Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.0	76.6
127	9.3	7.0	10.4

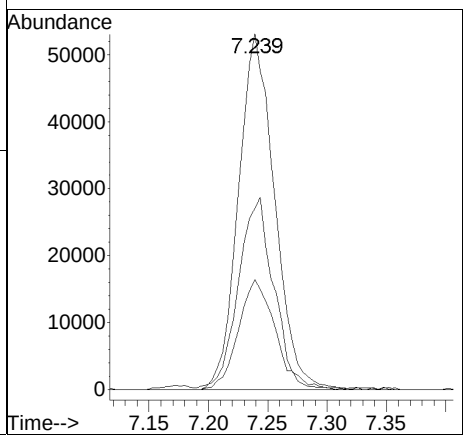


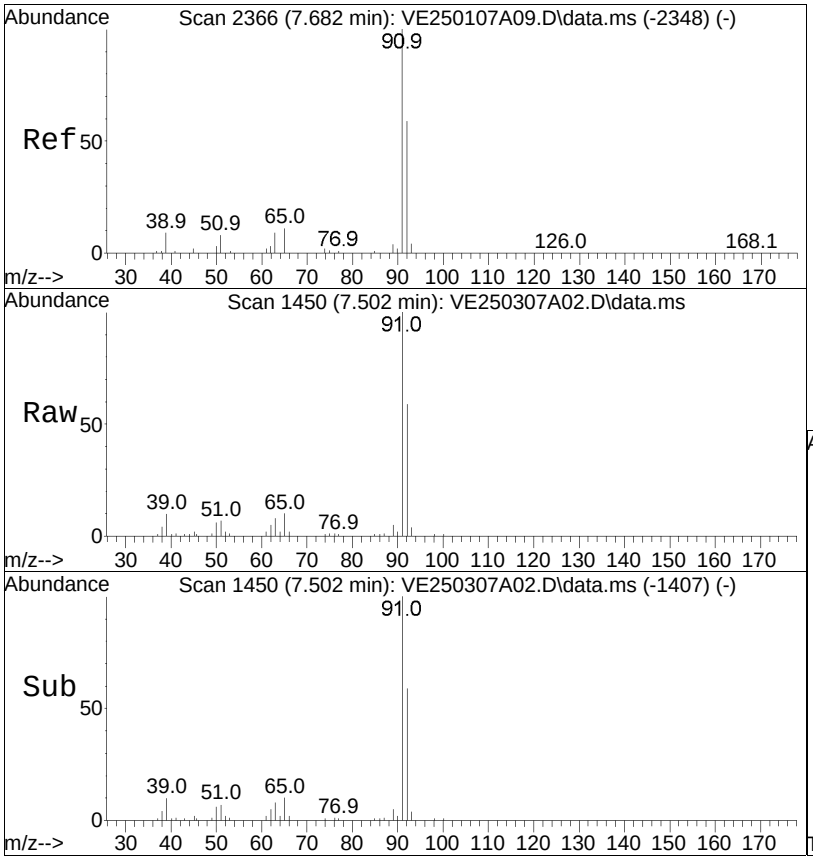


#62
cis-1,3-Dichloropropene
Concen: 9.58 ug/L
RT: 7.239 min Scan# 1392
Delta R.T. -0.002 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 75 Resp: 112510

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.4
39	53.3	42.9	64.3

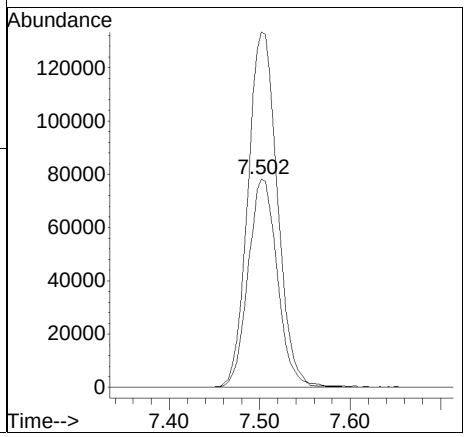


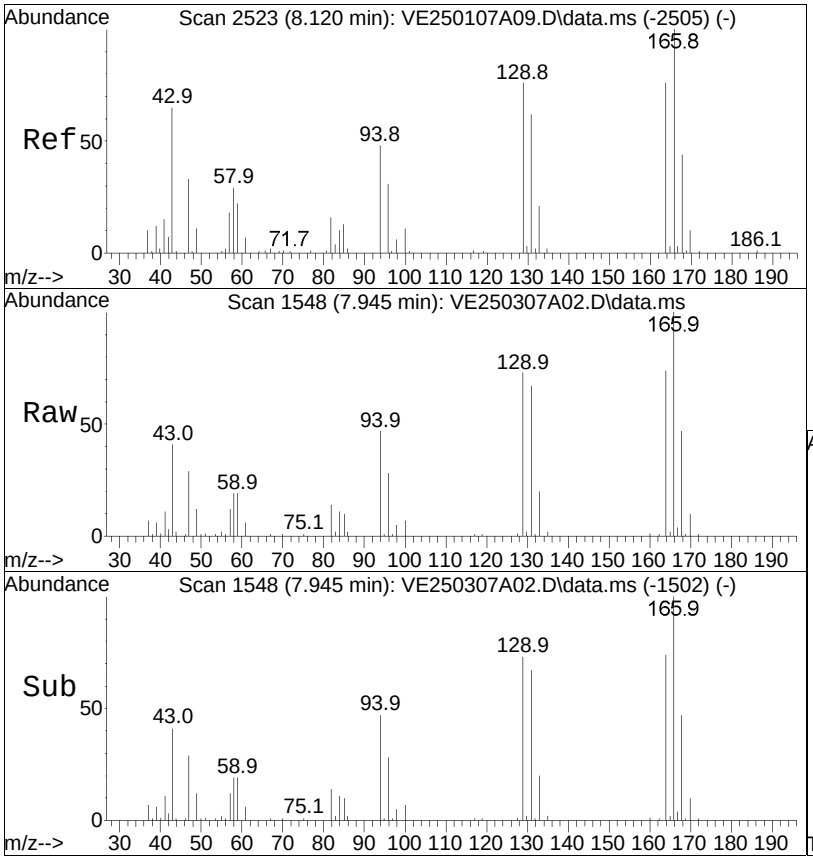


#65
Toluene
Concen: 8.57 ug/L
RT: 7.502 min Scan# 1450
Delta R.T. -0.005 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 92 Resp: 175534

Ion	Ratio	Lower	Upper
92	100		
91	172.7	134.8	202.2

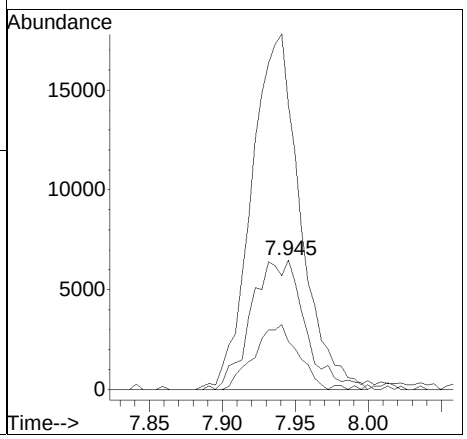


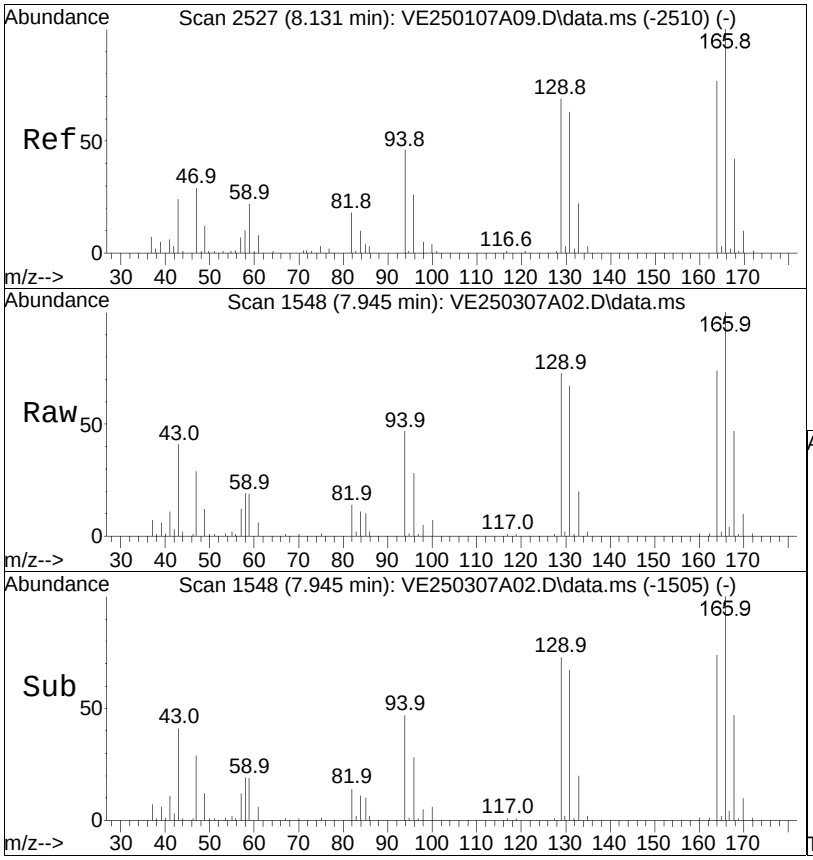


#66
4-Methyl-2-pentanone
Concen: 9.44 ug/L
RT: 7.945 min Scan# 1548
Delta R.T. 0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 58 Resp: 16477

Ion	Ratio	Lower	Upper
58	100		
100	40.7	34.8	52.2
43	255.7	201.1	301.7

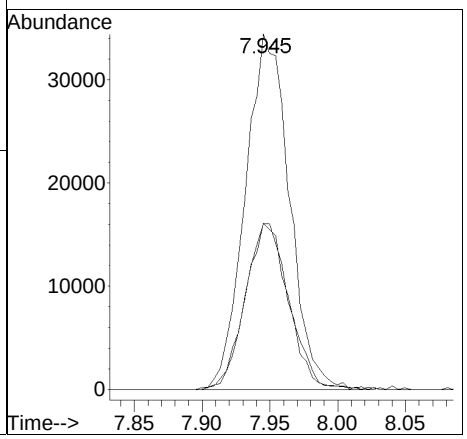


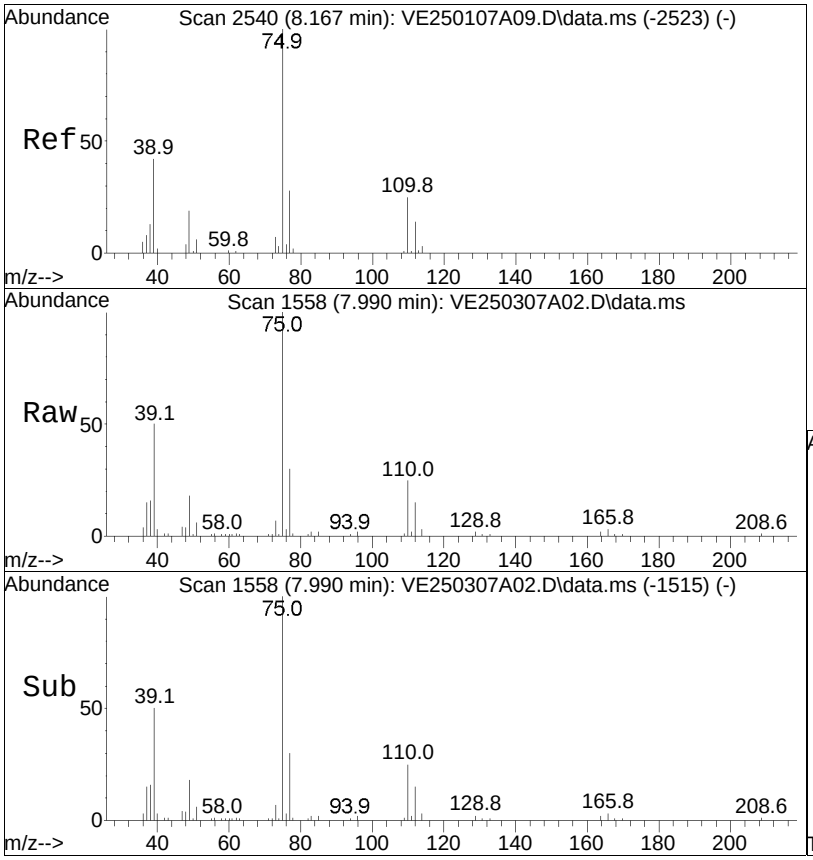


#67
Tetrachloroethene
Concen: 9.88 ug/L
RT: 7.945 min Scan# 1548
Delta R.T. -0.007 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:166 Resp: 77844

Ion	Ratio	Lower	Upper
166	100		
168	46.0	28.3	68.3
94	46.1	27.4	67.4

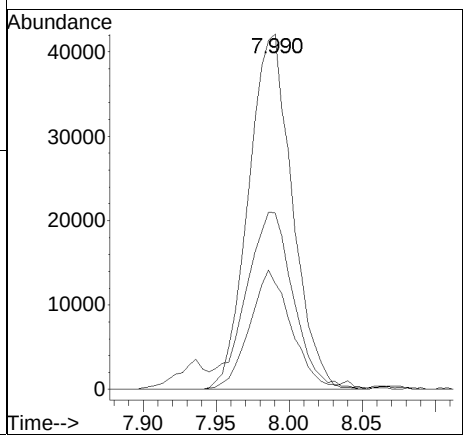


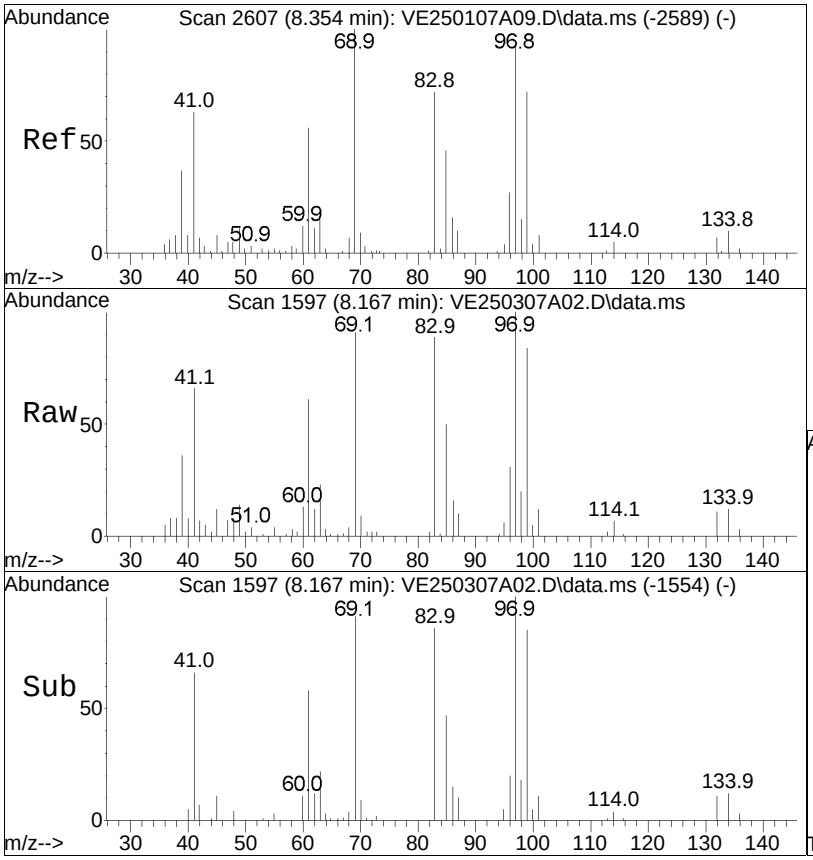


#69
trans-1,3-Dichloropropene
Concen: 8.93 ug/L
RT: 7.990 min Scan# 1558
Delta R.T. -0.004 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 75 Resp: 88352

Ion	Ratio	Lower	Upper
75	100		
77	32.0	11.5	51.5
39	51.9	29.6	69.6

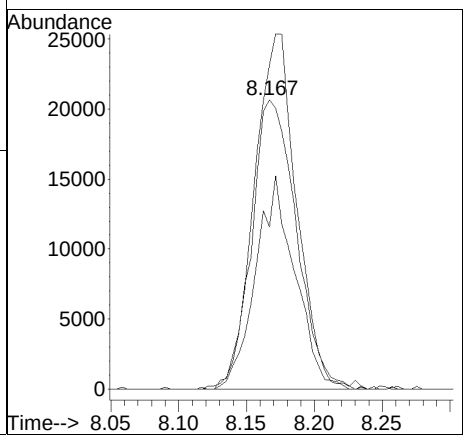


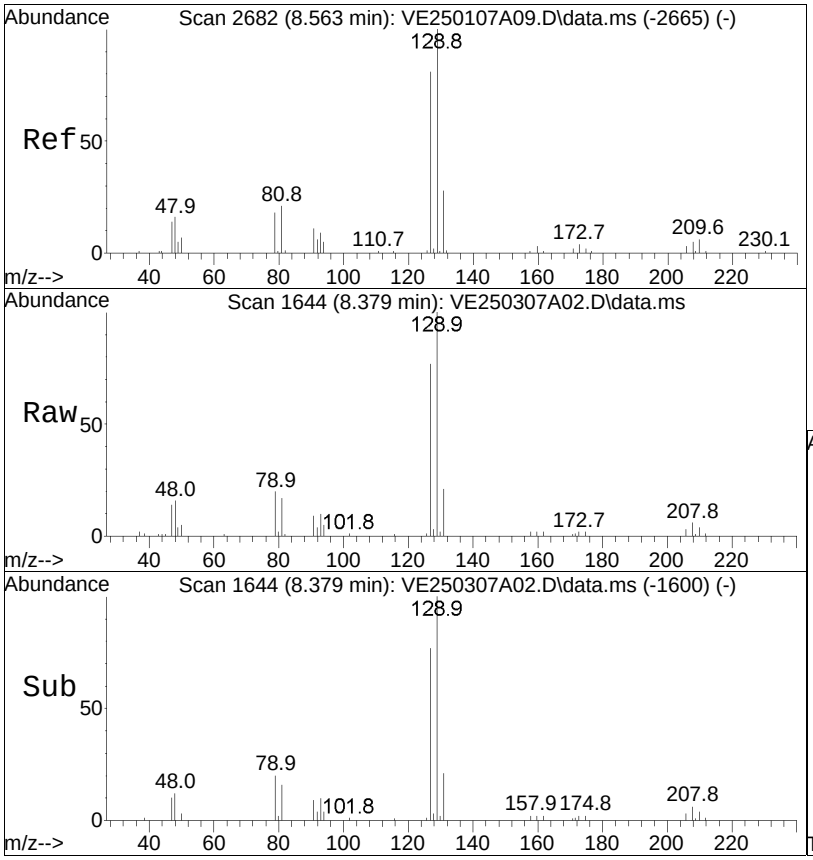


#72
1,1,2-Trichloroethane
Concen: 9.23 ug/L
RT: 8.167 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 83 Resp: 47470

Ion	Ratio	Lower	Upper
83	100		
97	116.3	96.9	136.9
85	64.9	46.7	86.7

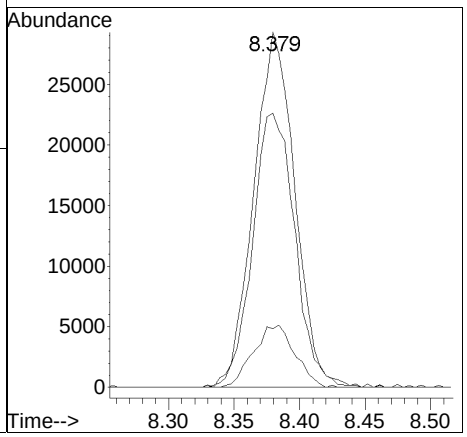


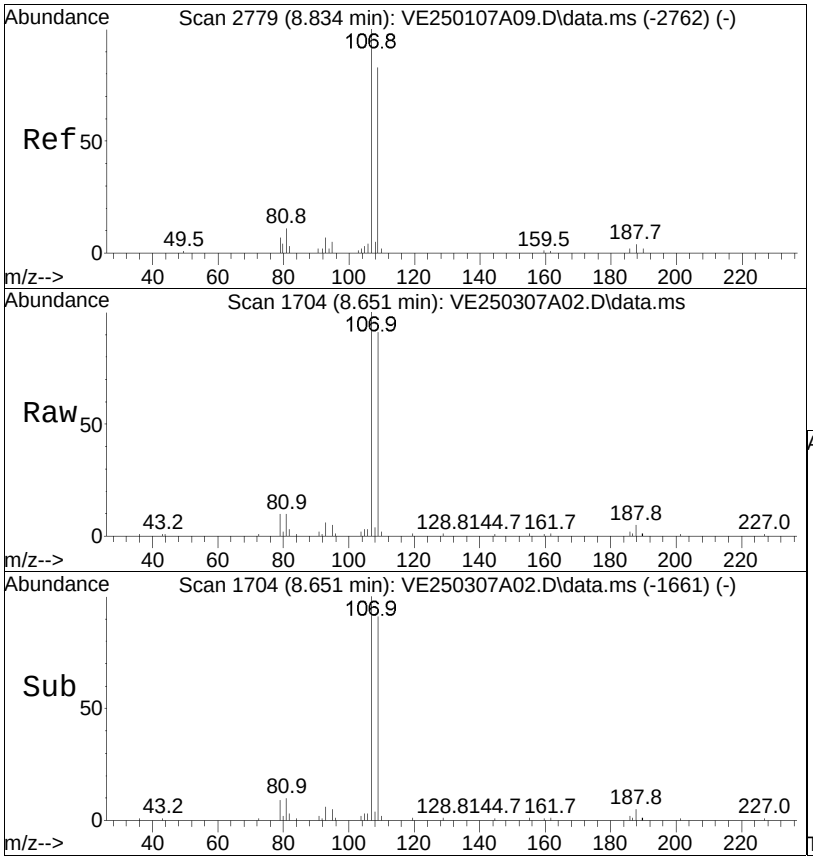


#73
Chlorodibromomethane
Concen: 8.98 ug/L
RT: 8.379 min Scan# 1644
Delta R.T. -0.002 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:129 Resp: 64220

Ion	Ratio	Lower	Upper
129	100		
81	17.7	0.9	40.9
127	79.0	56.5	96.5

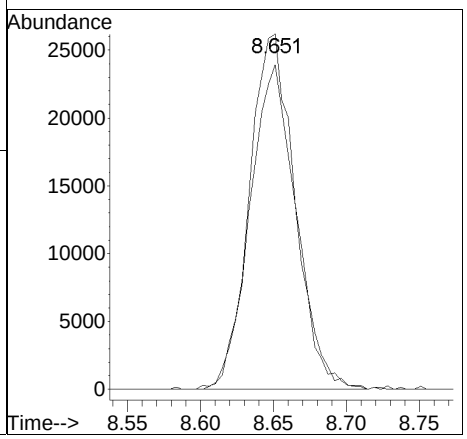


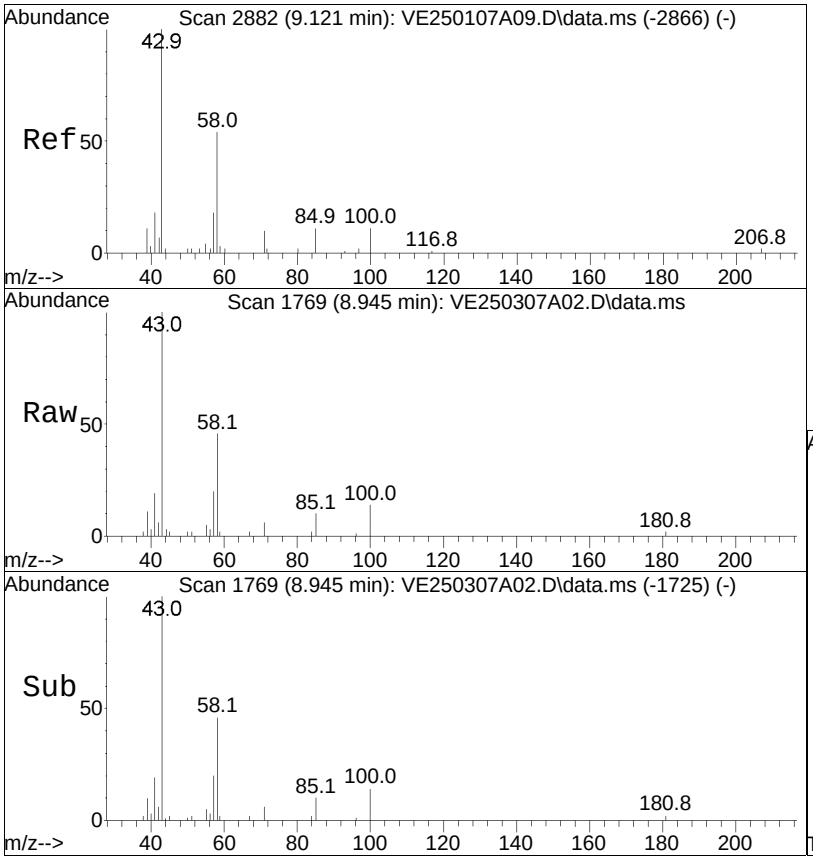


#75
1,2-Dibromoethane
Concen: 9.67 ug/L
RT: 8.651 min Scan# 1704
Delta R.T. -0.004 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:107 Resp: 56925

Ion	Ratio	Lower	Upper
107	100		
109	92.4	72.7	109.1

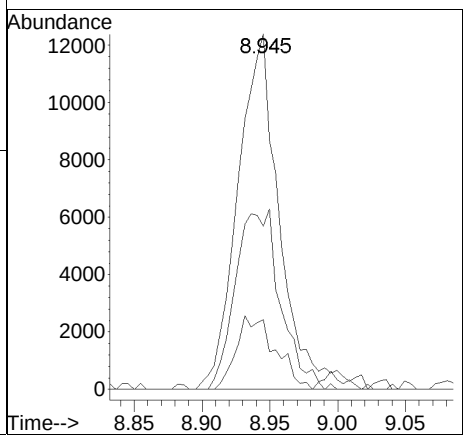


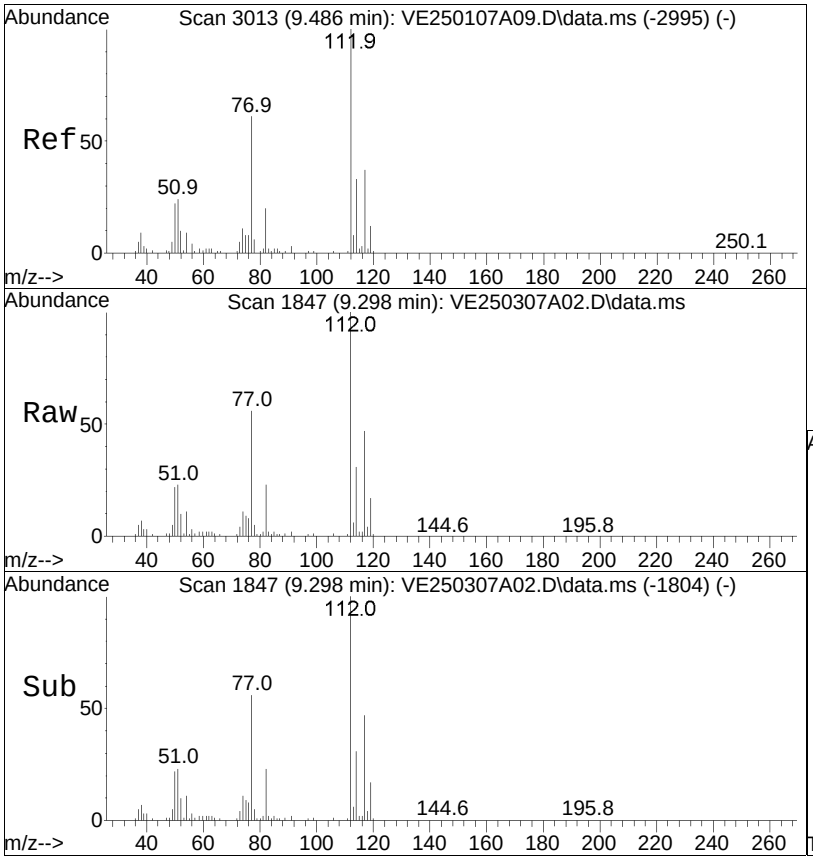


#77
2-Hexanone
Concen: 9.59 ug/L
RT: 8.945 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 43 Resp: 26664

Ion	Ratio	Lower	Upper
43	100		
58	56.2	42.7	64.1
57	19.2	15.5	23.3

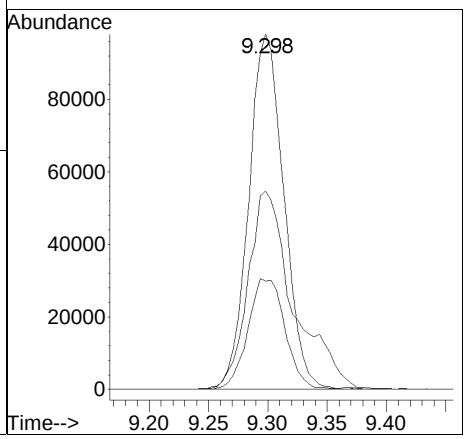


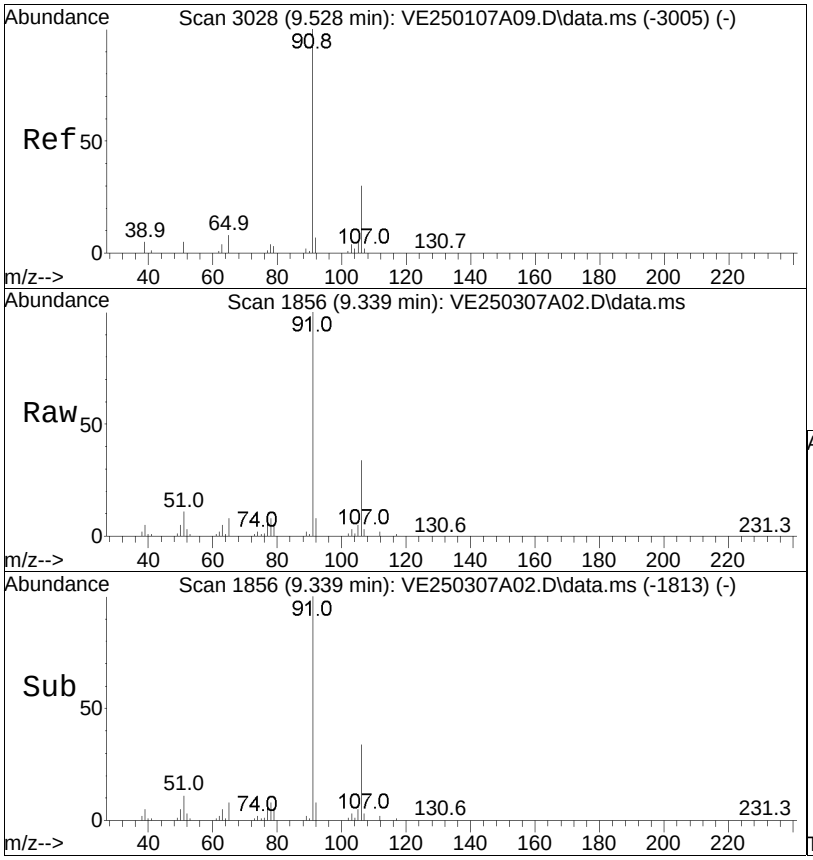


#78
Chlorobenzene
Concen: 8.68 ug/L
RT: 9.298 min Scan# 1847
Delta R.T. -0.004 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:112 Resp: 202194

Ion	Ratio	Lower	Upper
112	100		
77	72.7	56.4	84.6
114	32.8	25.8	38.6

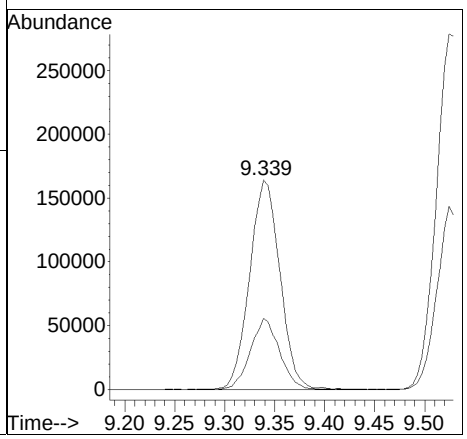


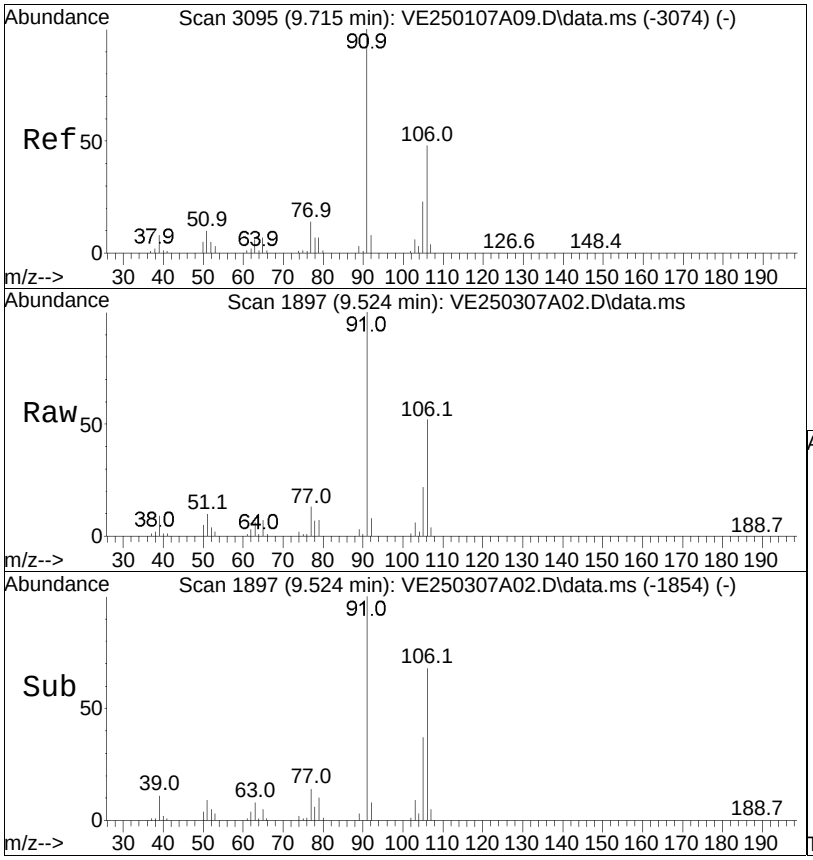


#79
Ethylbenzene
Concen: 8.47 ug/L
RT: 9.339 min Scan# 1856
Delta R.T. -0.005 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 91 Resp: 346932

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.4	38.2

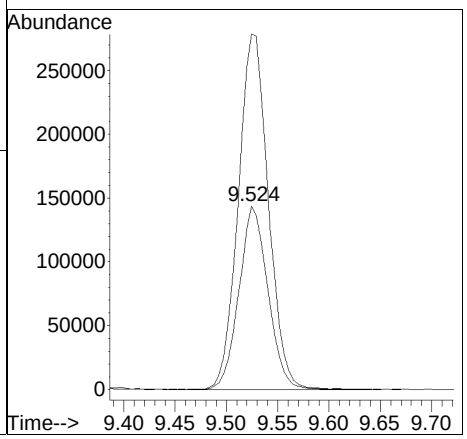


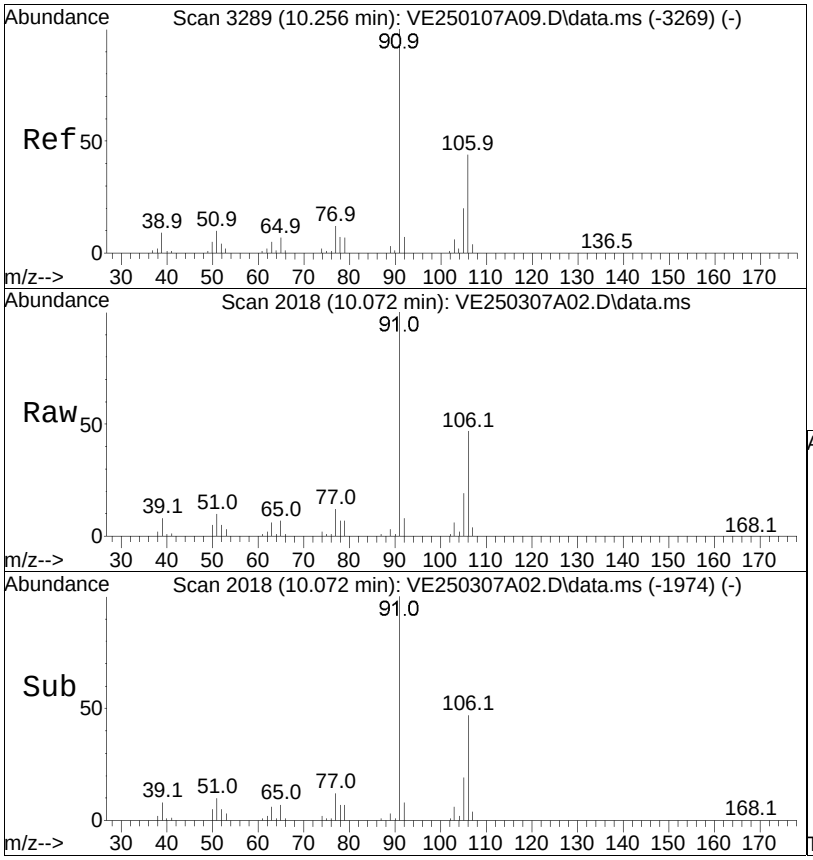


#81
p/m Xylene
Concen: 16.85 ug/L
RT: 9.524 min Scan# 1897
Delta R.T. -0.006 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:106 Resp: 282450

Ion	Ratio	Lower	Upper
106	100		
91	200.8	158.3	237.5

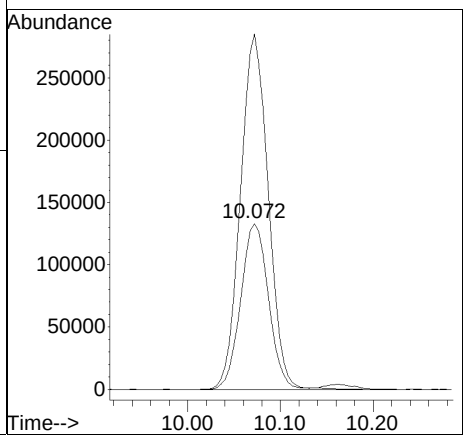


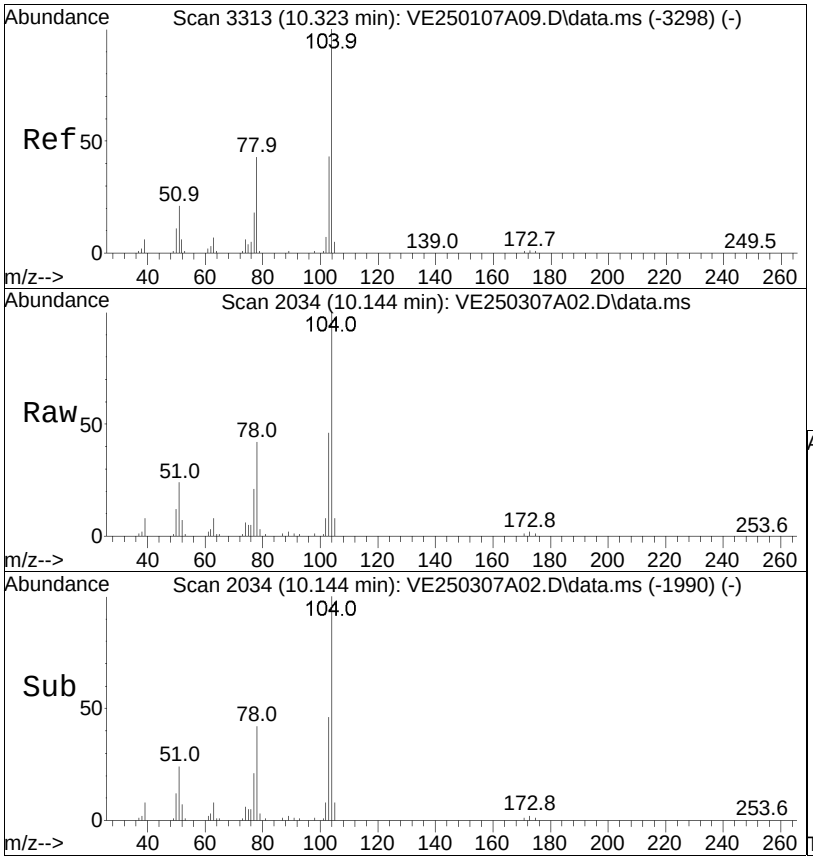


#82
o Xylene
Concen: 16.73 ug/L
RT: 10.072 min Scan# 2018
Delta R.T. -0.003 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:106 Resp: 279233

Ion	Ratio	Lower	Upper
106	100		
91	212.0	168.7	253.1

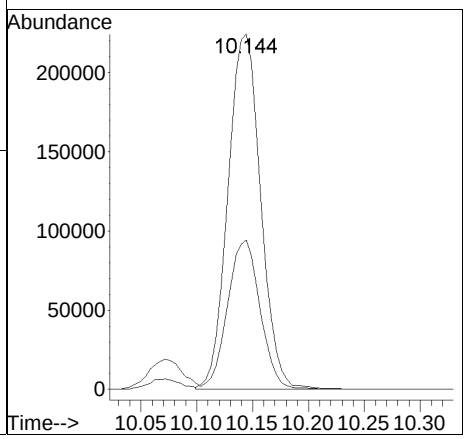


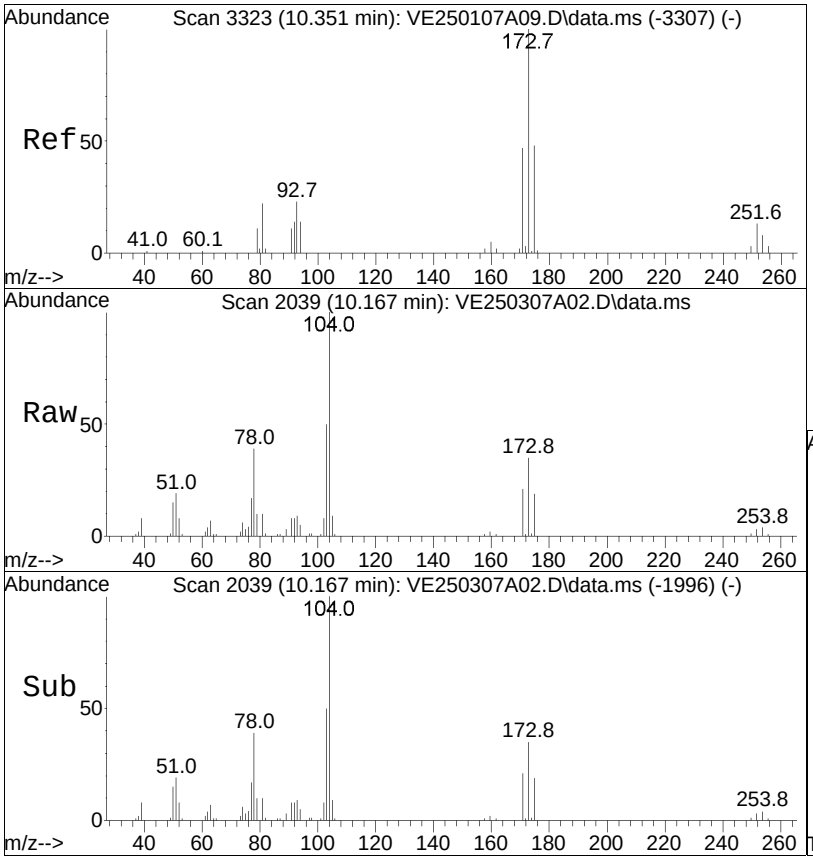


#83
Styrene
Concen: 16.09 ug/L
RT: 10.144 min Scan# 2034
Delta R.T. -0.003 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:104 Resp: 457529

Ion	Ratio	Lower	Upper
104	100		
78	41.8	32.4	48.6

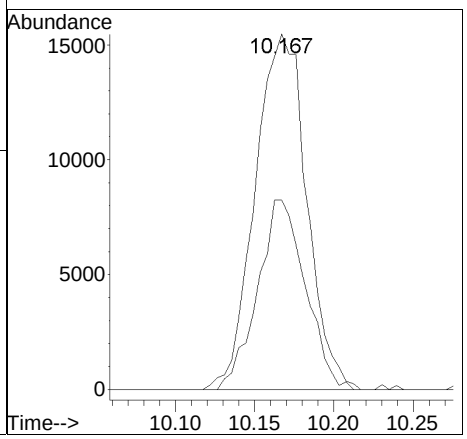


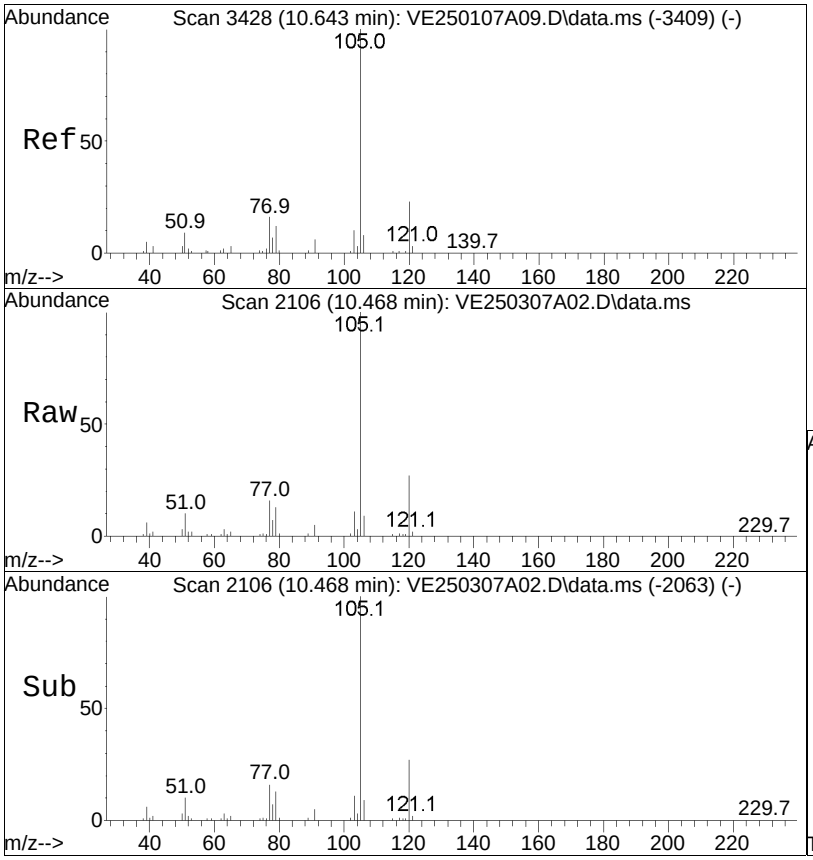


#85
Bromoform
Concen: 8.56 ug/L
RT: 10.167 min Scan# 2039
Delta R.T. -0.005 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:173 Resp: 35036

Ion	Ratio	Lower	Upper
173	100		
175	49.3	27.0	67.0

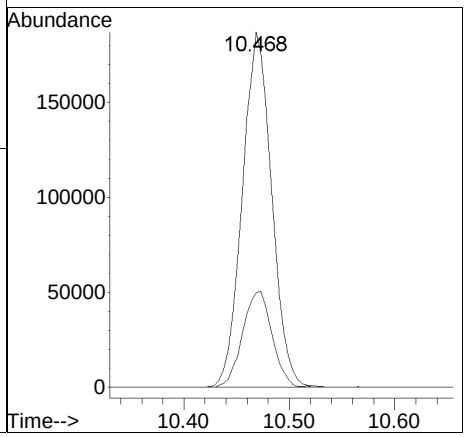


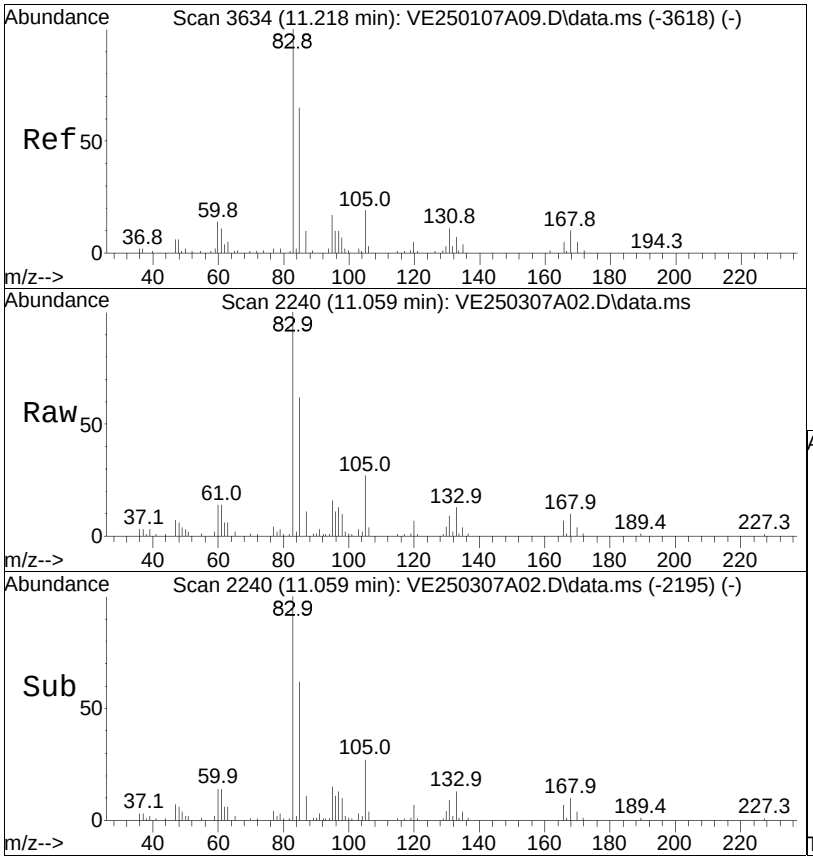


#87
Isopropylbenzene
Concen: 9.02 ug/L
RT: 10.468 min Scan# 2106
Delta R.T. -0.005 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:105 Resp: 362073

Ion	Ratio	Lower	Upper
105	100		
120	27.2	6.7	46.7

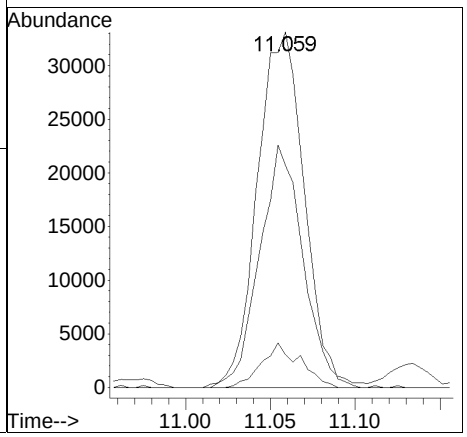


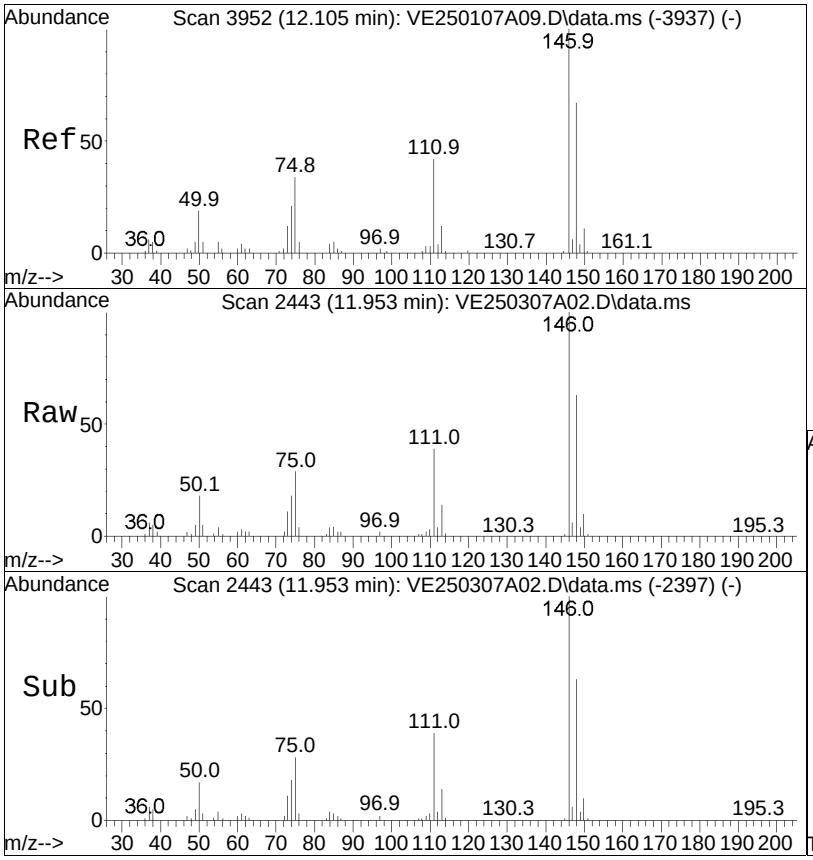


#92
1,1,2,2-Tetrachloroethane
Concen: 9.29 ug/L
RT: 11.059 min Scan# 2240
Delta R.T. -0.003 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion: 83 Resp: 63296

Ion	Ratio	Lower	Upper
83	100		
131	10.4	0.0	30.1
85	64.0	46.3	86.3

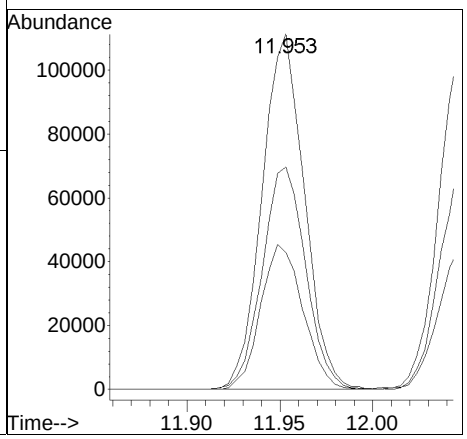


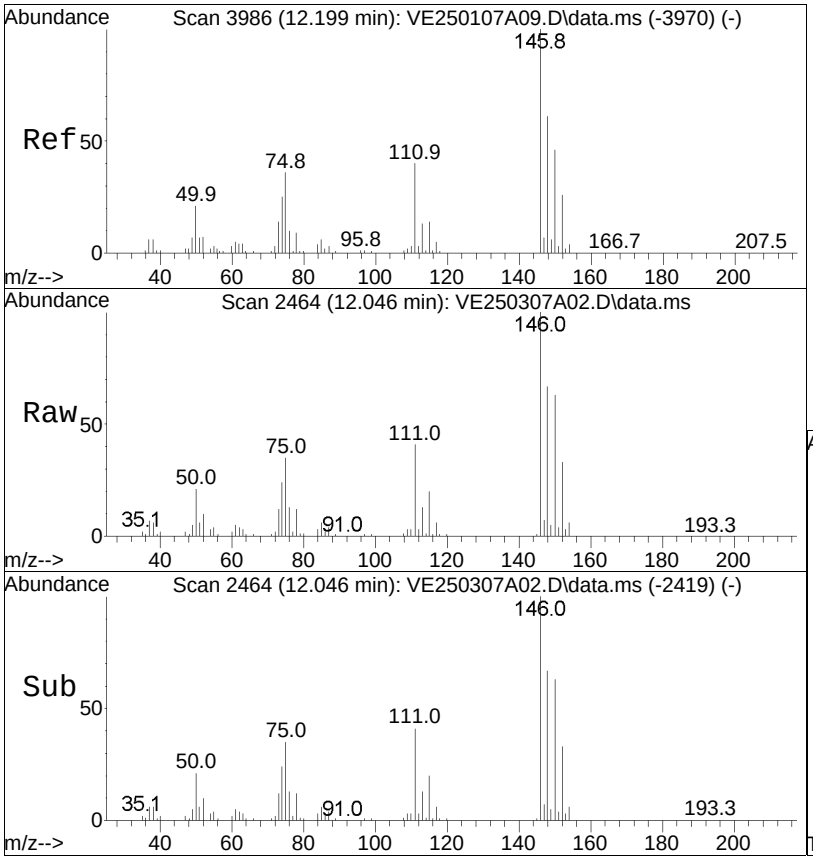


#105
1,3-Dichlorobenzene
Concen: 9.05 ug/L
RT: 11.953 min Scan# 2443
Delta R.T. 0.002 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:146 Resp: 176274

Ion	Ratio	Lower	Upper
146	100		
111	40.9	26.0	54.0
148	64.2	42.1	87.3

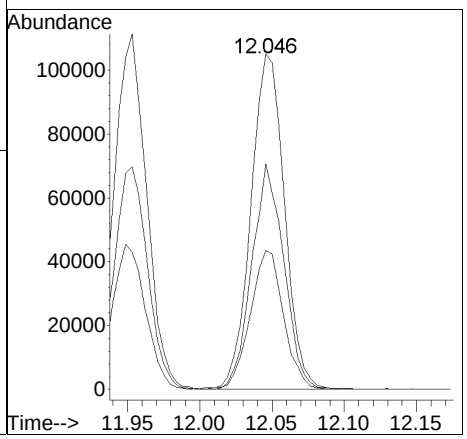


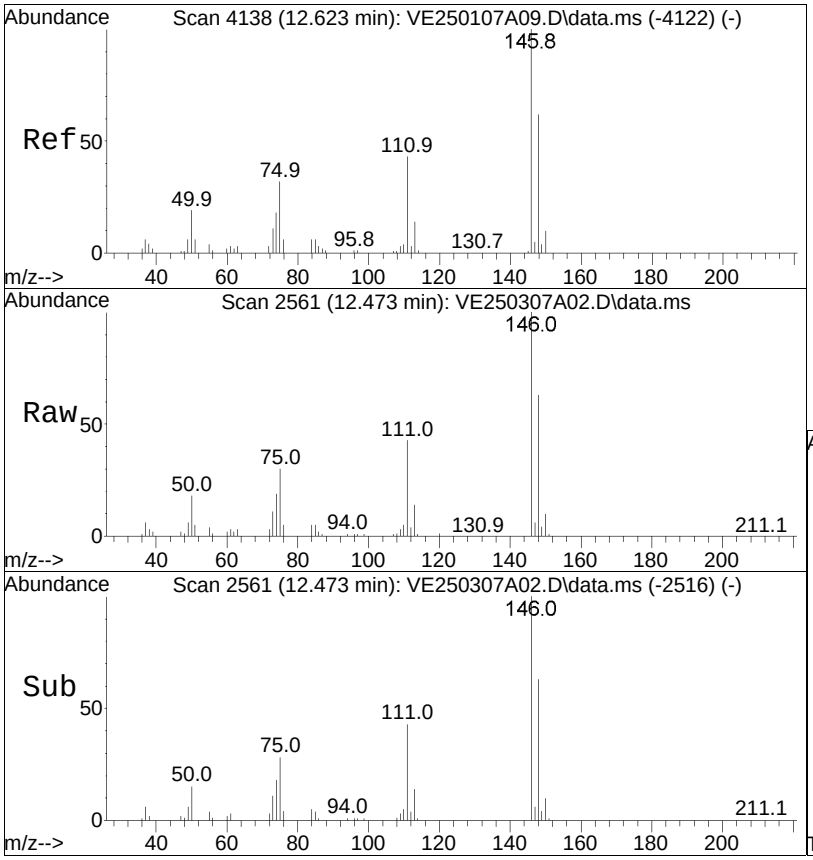


#106
1,4-Dichlorobenzene
Concen: 8.78 ug/L
RT: 12.046 min Scan# 2464
Delta R.T. -0.003 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:146 Resp: 170195

Ion	Ratio	Lower	Upper
146	100		
111	41.0	31.5	47.3
148	64.2	51.1	76.7

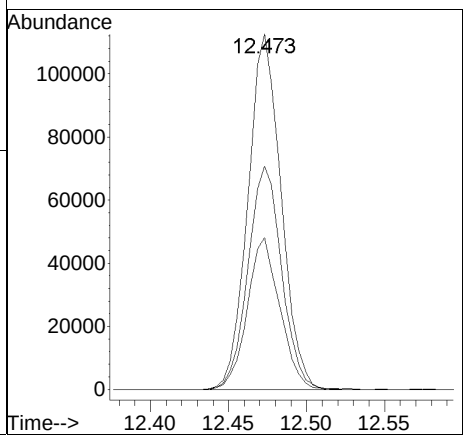


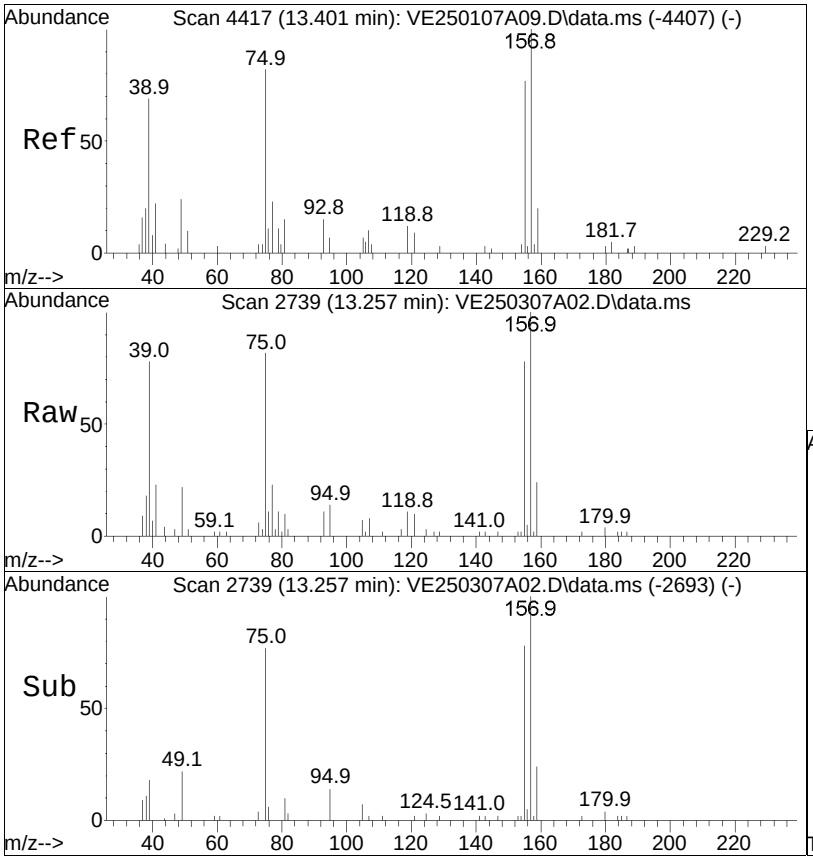


#109
1,2-Dichlorobenzene
Concen: 9.10 ug/L
RT: 12.473 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:146 Resp: 166575

Ion	Ratio	Lower	Upper
146	100		
111	41.9	26.8	55.6
148	63.6	40.9	84.9

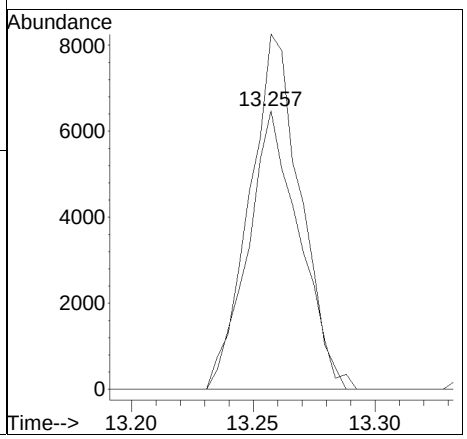


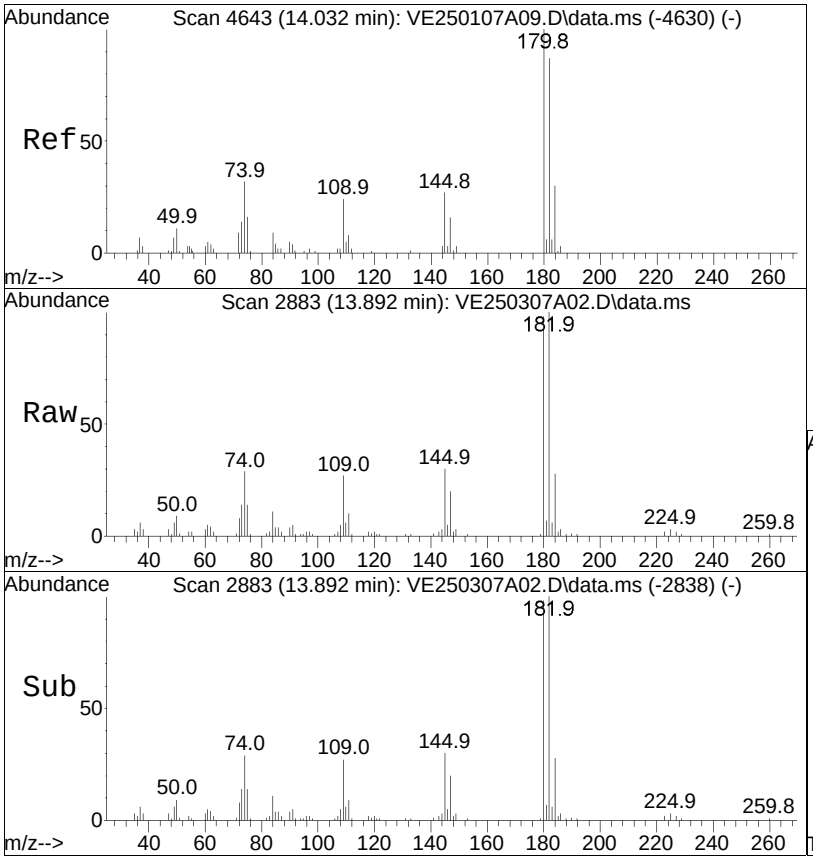


#111
1,2-Dibromo-3-chloropropane
Concen: 9.06 ug/L
RT: 13.257 min Scan# 2739
Delta R.T. 0.001 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:155 Resp: 9550

Ion	Ratio	Lower	Upper
155	100		
157	125.6	95.8	143.8

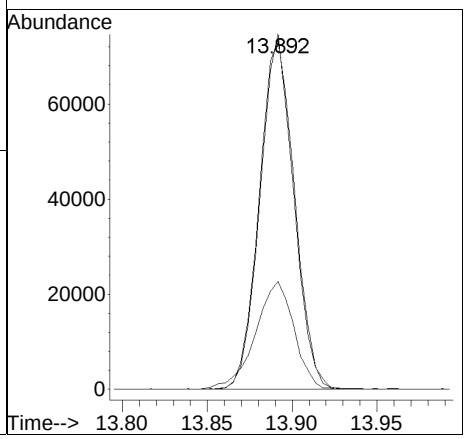


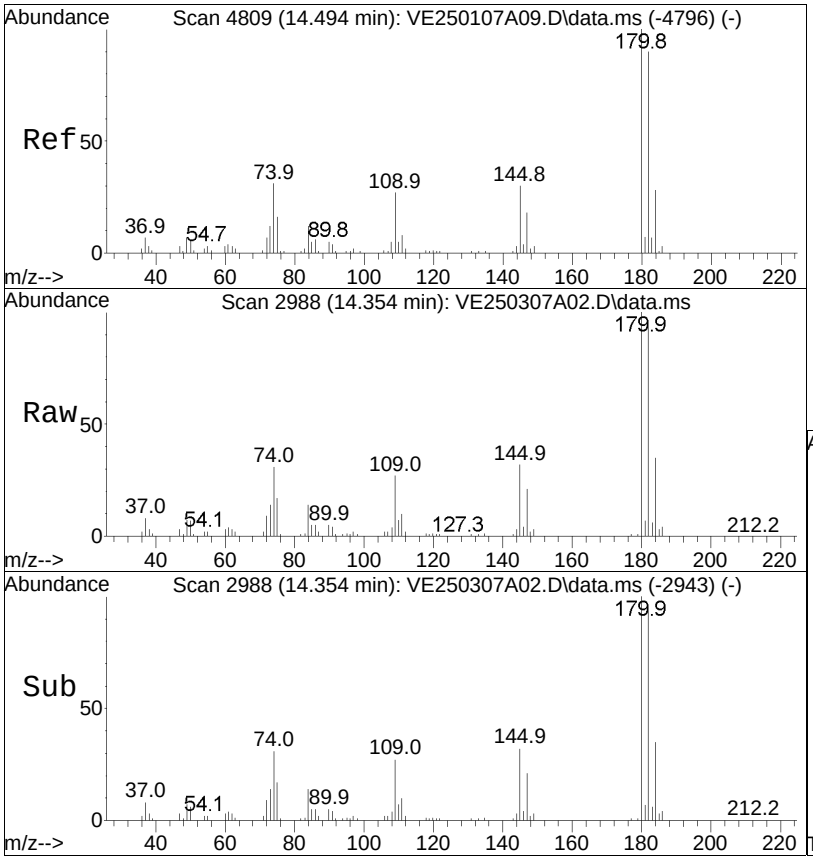


#114
1,2,4-Trichlorobenzene
Concen: 9.21 ug/L
RT: 13.892 min Scan# 2883
Delta R.T. -0.003 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:180 Resp: 106229

Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.2	114.2
145	33.9	27.8	41.6

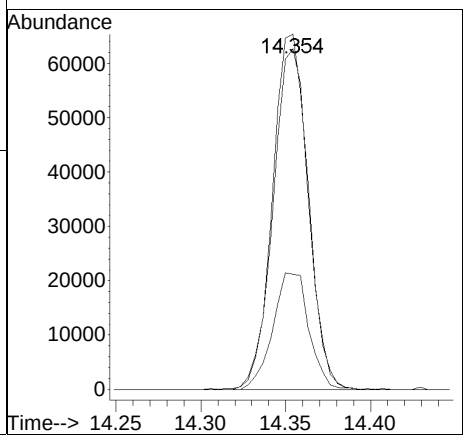




#116
1,2,3-Trichlorobenzene
Concen: 8.99 ug/L
RT: 14.354 min Scan# 2988
Delta R.T. -0.001 min
Lab File: VE250307A02.D
Acq: 7 Mar 2025 7:23 am

Tgt Ion:180 Resp: 95065

Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.0	115.4
145	33.3	25.9	38.9

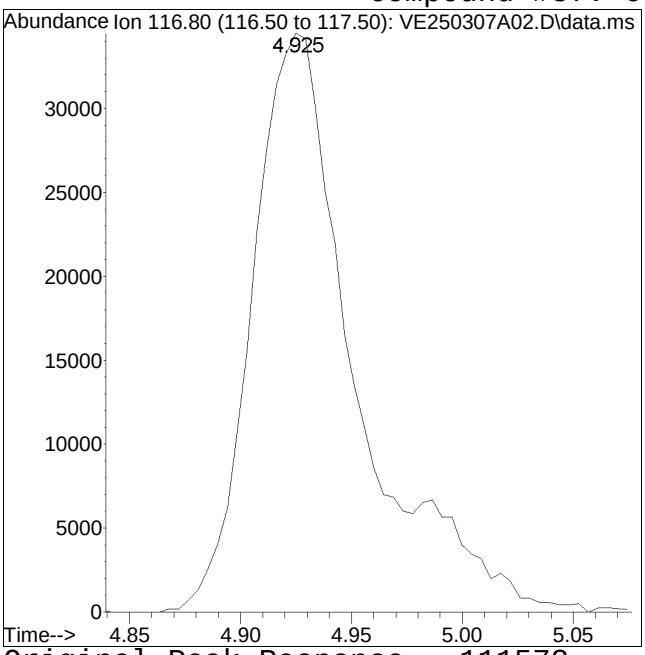


Manual Integration Report

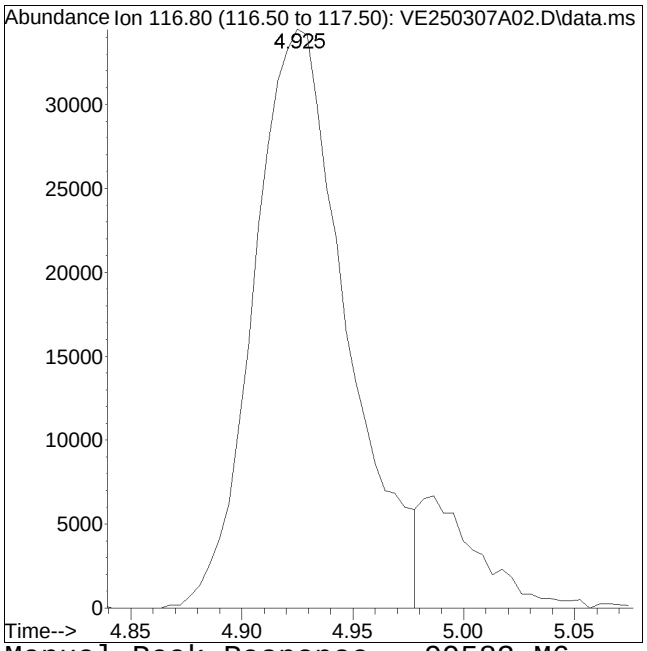
Data Path : K:\Elaine\2025\250307A\
Data File : VE250307A02.D
Date Inj'd : 3/7/2025 7:23 am
Sample : WG2037848-4,31,10,10

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/7/2025 7:49 am

Compound #37: Carbon tetrachloride



Original Peak Response = 111572



Manual Peak Response = 99583 M6

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

Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 10 2025, 11:26 am

Work Group: WG2037848 for Department: 31 GC/MS - Volatiles

Created: 07-MAR-25 Due: Operator: PID

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2511529-01	MW-11D	S	NYTCL-8260	WATER	DONE	U	0317	0310	S0	Vial-B
L2511562-01	MW-04_03032025	S	NYTCL-8260	WATER	DONE	U	0317	0310	S0	Vial-B
L2511562-02	MW-03_03032025	S	NYTCL-8260	WATER	DONE	U	0317	0310	S0	Vial-B
L2511562-03	TB-01_20250303	S	NYTCL-8260	WATER	DONE	U	0317	0310	S0	Vial-B
L2512654-01	LMW-10R-S_24.75	S	NYTCL-8260	WATER	DONE	U	0320	0307	1A	Vial-B
L2512654-02	DUP_20250306	S	NYTCL-8260	WATER	DONE	U	0320	0307	1A	Vial-B
WG2037848-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG2037848-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG2037848-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG2037848-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG2037848-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG2037848-4 WG2037848-3

Inst: Elaine
Initials: TMS
Date: **02/20/25**
Run: **N**

BFB: V10950
IS/SS: V10951
ICAL: V10972A,V10970
ICV: V10953,V10926,V10954,V10927,V10928,V10929

Method
GC: 8260-SPLIT
Autosampler: 8260
Concentrator: 8260

QC:_____ Seq:_____

Vial	Data File	Sample	obs
1	VE250220NBF1	BFB TUNE	
1	VE250220N01	NO SAMPLE	
2	VE250220N02	BLK	
3	VE250220N03	BLK	
4	VE250220N04	I8260STD0.19PPB	
5	VE250220N05	I8260STD0.19PPB	
6	VE250220N06	I8260STD0.5PPB	
7	VE250220N07	I8260STD0.5PPB	
8	VE250220N08	I8260STD2PPB	
9	VE250220N09	I8260STD2PPB	
10	VE250220N10	I8260STD10PPB	
11	VE250220N11	I8260STD30PPB	
12	VE250220N12	I8260STD80PPB	
13	VE250220N13	I8260STD120PPB	
14	VE250220N14	I8260STD200PPB	
15	VE250220N15	BLK	
16	VE250220N16	BLK	
17	VE250220N17	BLK	
18	VE250220N18	BLK	
19	VE250220N19	C8260STD10PPB	
20	VE250220N20	C8260STD10PPB	
21	VE250220N21	BLK	
22	VE250220N22	BLK	
23	VE250220N23	METHOD BLK	
24	VE250220N24	MDL 0.19PPB	
25	VE250220N25	MDL 0.19PPB	
26	VE250220N26	MDL 0.19PPB	
27	VE250220N27	MDL 0.5PPB	
28	VE250220N28	MDL 2PPB	
29	VE250220N29	BLK	
30	VE250220N30	BLK	
31	VE250220N31	BLK	
32	VE250220N32	BLK	
33	VE250220N33	BLK	

Inst: Elaine
Initials: MJV
Date: **03/07/25**
Run: **A**

BFB: V10998
IS/SS: V10987
ICAL: V10972B,V10986

Method
GC: 8260-SPLIT
Autosampler: 8260
Concentrator: 8260

QC:_____ Seq:_____

Vial	Data File	Sample			obs
1	VE250307ABF1	BFB TUNE	06:45		
1	VE250307A01	8260 CCAL	LCS		
2	VE250307A02	8260 CCAL	LCSD		
3	VE250307A03	8260 CCAL			
4	VE250307A04	BLK			
5	VE250307A05	METHOD BLK			
6	VE250307A06	I2512654-01,31,10,10,,a,r1a	NYTCL		pH<2
7	VE250307A07	I2512654-02,31,10,10,,a,r1a	NYTCL		pH<2
8	VE250307A08	L2511322-02d,31,0.1,10,,C	NJ/15		pH<2
9	VE250307A09	d STD BENZ			
10	VE250307A10	I2511436-13,31,10,10,,a	8260		pH<2
11	VE250307A11	I2511436-14,31,10,10,,a	8260		pH<2
12	VE250307A12	I2511436-15,31,10,10,,a	8260		pH<2
13	VE250307A13	I2511436-16,31,10,10,,a	8260	TB	pH<2
14	VE250307A14	I2512430-01,31,10,10,,a	8260		pH<2
15	VE250307A15	I2512430-02,31,10,10,,a	8260		pH<2
16	VE250307A16	I2512430-03,31,10,10,,a	8260		pH<2
17	VE250307A17	I2512430-04,31,10,10,,a	8260		pH<2
18	VE250307A18	I2512430-05,31,10,10,,a	8260		pH<2
19	VE250307A19	I2512430-06,31,10,10,,a	8260		pH<2
20	VE250307A20	I2512430-07,31,10,10,,a	8260		pH<2
21	VE250307A21	I2511562-01,31,10,10,,a	NYTCL		pH<2
22	VE250307A22	I2511562-02,31,10,10,,a	NYTCL		pH<2
23	VE250307A23	I2511562-03,31,10,10,,a	NYTCL	TB	pH<2
24	VE250307A24	I2511426-01,31,10,10,,a	ME/CCL4		pH<2
25	VE250307A25	I2511452-01,31,10,10,,a	ME 8260		pH<2
26	VE250307A26	I2511529-01,31,10,10,,a	NY CURVE		pH<2
27	VE250307A27	HBM			
28	VE250307A28	BLK			
29	VE250307A29	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2036767-2 **Analysis Date** : 03/05/25 13:56	**File ID**	: 036767-2
LCSD Sample ID	: WG2036767-3 **Analysis Date** : 03/05/25 14:20	**File ID**	: 036767-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	14.	70	20	15.	76	8	40-140	30
2,4-Dinitrotoluene	20	16.	78	20	16.	81	4	48-143	30
2,6-Dinitrotoluene	20	15.	73	20	15.	77	5	40-140	30
4-Chlorophenyl phenyl ether	20	15.	74	20	16.	78	5	40-140	30
4-Bromophenyl phenyl ether	20	14.	72	20	16.	78	8	40-140	30
Bis(2-chloroisopropyl)ether	20	13.	67	20	13.	66	2	40-140	30
Bis(2-chloroethoxy)methane	20	16.	81	20	17.	84	4	40-140	30
Hexachlorocyclopentadiene	20	17.	87	20	17.	86	1	40-140	30
Isophorone	20	17.	86	20	17.	85	1	40-140	30
Nitrobenzene	20	17.	84	20	17.	86	2	40-140	30
NDPA/DPA	20	15.	74	20	15.	76	3	40-140	30
n-Nitrosodi-n-propylamine	20	17.	87	20	17.	85	2	29-132	30
Bis(2-ethylhexyl)phthalate	20	16.	82	20	16.	80	2	40-140	30
Butyl benzyl phthalate	20	16.	79	20	15.	75	5	40-140	30
Di-n-butylphthalate	20	14.	72	20	14.	73	1	40-140	30
Di-n-octylphthalate	20	16.	78	20	15.	76	3	40-140	30
Diethyl phthalate	20	15.	77	20	16.	78	1	40-140	30
Dimethyl phthalate	20	14.	73	20	15.	74	1	40-140	30
Biphenyl	20	16.	79	20	16.	81	3	40-140	30
4-Chloroaniline	20	16.	82	20	15.	74	10	40-140	30
2-Nitroaniline	20	15.	74	20	14.	69	7	52-143	30
3-Nitroaniline	20	15.	74	20	14.	71	4	25-145	30
4-Nitroaniline	20	14.	72	20	16.	80	11	51-143	30
Dibenzofuran	20	15.	76	20	16.	80	5	40-140	30
1,2,4,5-Tetrachlorobenzene	20	16.	78	20	16.	79	1	2-134	30
Acetophenone	20	18.	91	20	19.	94	3	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2036767-2 **Analysis Date** : 03/05/25 13:56	**File ID**	: 036767-2
LCSD Sample ID	: WG2036767-3 **Analysis Date** : 03/05/25 14:20	**File ID**	: 036767-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	14.	70	20	13.	65	7	30-130	30
p-Chloro-m-cresol	20	16.	80	20	16.	78	3	23-97	30
2-Chlorophenol	20	14.	73	20	15.	75	3	27-123	30
2,4-Dichlorophenol	20	14.	72	20	15.	75	4	30-130	30
2,4-Dimethylphenol	20	20.	98	20	18.	91	7	30-130	30
2-Nitrophenol	20	16.	80	20	14.	68	16	30-130	30
4-Nitrophenol	20	10.	52	20	10.	52	0	10-80	30
2,4-Dinitrophenol	20	19.	93	20	18.	92	1	20-130	30
4,6-Dinitro-o-cresol	20	14.	71	20	15.	74	4	20-164	30
Phenol	20	9.4	47	20	9.7	48	2	12-110	30
2-Methylphenol	20	15.	77	20	15.	76	1	30-130	30
3-Methylphenol/4-Methylphenol	20	14.	72	20	15.	77	7	30-130	30
2,4,5-Trichlorophenol	20	14.	70	20	14.	71	1	30-130	30
Carbazole	20	15.	75	20	15.	76	1	55-144	30
Atrazine	20	14.	73	20	15.	75	3	40-140	30
Benzaldehyde	20	20.	98	20	19.	95	3	40-140	30
Caprolactam	20	5.9	30	20	5.0	25	18	10-130	30

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2511529
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-11D (L2511529-01)	44	34	88	75	59	71	0
WG2036767-1BLANK	46	34	74	65	53	66	0
WG2036767-2LCS	50	36	88	65	67	68	0
WG2036767-3LCSD	50	38	84	67	70	65	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2036767-1	**Lab File ID**	: 036767-1
Instrument ID	: SV106	**Extraction Date**	: 03/05/25
Matrix	: WATER	**Analysis Date**	: 03/05/25 13:33
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2036767-2LCS	WG2036767-2	03/05/25 13:56
WG2036767-3LCSD	WG2036767-3	03/05/25 14:20
MW-11D	L2511529-01	03/06/25 05:55

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 10/09/24 19:43
Tune Standard	: R1887847-4	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.3
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	25.3
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	66.9
443	15.0 - 24.0% of mass 442	13 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1887847-15	ABNL9	10/09/24 20:07
ABNL8	R1887847-13	ABNL8	10/09/24 20:30
ABNL7	R1887847-12	ABNL7	10/09/24 20:54
ABNL6	R1887847-11	ABNL6	10/09/24 21:18
ABNL5	R1887847-10	ABNL5	10/09/24 21:41
ABNL4	R1887847-9	ABNL4	10/09/24 22:05
ABNL3	R1887847-8	ABNL3	10/09/24 22:29
ABNL2	R1887847-7	ABNL2	10/09/24 22:52
ABNL1	R1887847-6	ABNL1	10/09/24 23:16
AP9L9	R1887847-32	AP9L9	10/09/24 23:40
AP9L8	R1887847-31	AP9L8	10/10/24 00:03
AP9L7	R1887847-30	AP9L7	10/10/24 00:27
AP9L6	R1887847-29	AP9L6	10/10/24 00:51
AP9L5	R1887847-28	AP9L5	10/10/24 01:15
AP9L4	R1887847-27	AP9L4	10/10/24 01:38
AP9L3	R1887847-24	AP9L3	10/10/24 02:02
AP9L2	R1887847-25	AP9L2	10/10/24 02:25
AP9L1	R1887847-26	AP9L1	10/10/24 02:49
ABN ICV Quant Report	R1887847-1	ABNICV	10/10/24 03:13
AP9 ICV Quant Report	R1887847-3	AP9ICV	10/10/24 03:37

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 10/11/24 12:20
Tune Standard	: R1887847-5	**Tune File ID**	: Tune3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.1
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	25.8
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	16.5
442	Base Peak, or >50% of mass 198	69.1
443	15.0 - 24.0% of mass 442	13.4 (19.3)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1887847-23	ADPL9	10/11/24 12:44
ADPL8	R1887847-21	ADPL8	10/11/24 13:07
ADPL7	R1887847-20	ADPL7	10/11/24 13:31
ADPL6	R1887847-22	ADPL6	10/11/24 13:55
ADPL5	R1887847-19	ADPL5	10/11/24 14:18
ADPL4	R1887847-17	ADPL4	10/11/24 14:42
ADPL3	R1887847-18	ADPL3	10/11/24 15:06
ADPL2	R1887847-16	ADPL2	10/11/24 15:29
ADPL1	R1887847-14	ADPL1	10/11/24 15:53
ADP ICV Quant Report	R1887847-2	ADPICV	10/11/24 16:16

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/05/25 09:24
Tune Standard	: WG2036963-1	**Tune File ID**	: DEG0305_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.9
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	48.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	24.4
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.9
442	Base Peak, or >50% of mass 198	53.1
443	15.0 - 24.0% of mass 442	10.3 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2036963-6TFACTOR-B	WG2036963-6	DEG0305	03/05/25 09:24
WG2036963-7TFACTOR-P	WG2036963-7	DEG0305	03/05/25 09:24
WG2036963-3CCAL	WG2036963-3	ABN0305	03/05/25 09:47
WG2036963-4CCAL	WG2036963-4	AP90305	03/05/25 10:13
WG2036963-5CCAL	WG2036963-5	ADP0305	03/05/25 10:36
WG2036767-1BLANK	WG2036767-1	036767-1	03/05/25 13:33
WG2036767-2LCS	WG2036767-2	036767-2	03/05/25 13:56
WG2036767-3LCSD	WG2036767-3	036767-3	03/05/25 14:20

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/06/25 00:25
Tune Standard	: WG2037122-1	**Tune File ID**	: DEG0305n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.2
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	46.5
197	Less than 2.0% of mass 198	0.2
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.3
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	62.2
443	15.0 - 24.0% of mass 442	12 (19.3)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2037122-6TFACTOR-P	WG2037122-6	DEG0305N	03/06/25 00:25
WG2037122-7TFACTOR-B	WG2037122-7	DEG0305N	03/06/25 00:25
WG2037122-3CCAL	WG2037122-3	ABN0305N	03/06/25 00:49
WG2037122-4CCAL	WG2037122-4	AP90305N	03/06/25 01:12
WG2037122-5CCAL	WG2037122-5	ADP0305N	03/06/25 01:36
MW-11D	L2511529-01	11529-01	03/06/25 05:55

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/05/25 09:47:00
Sample No	: WG2036963-3	**Lab File ID**	: ABN0305

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2036963-3	78779	6.38	296328	7.80	172610	9.57
Upper Limit	157558	6.88	592656	8.30	345220	10.07
Lower Limit	39390	5.88	148164	7.30	86305	9.07
Sample ID						
WG2036963-4 CCAL	75233	6.37	281912	7.81	163577	9.57
WG2036963-5 CCAL	77182	6.37	-	-	165182	9.57
WG2036767-1 BLANK	64754	6.37	249437	7.81	149360	9.57
WG2036767-2 LCS	58621	6.37	228443	7.81	136192	9.57
WG2036767-3 LCSD	60960	6.37	239719	7.81	135516	9.57

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/05/25 09:47:00
Sample No	: WG2036963-3	**Lab File ID**	: ABN0305

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2036963-3	322082	11.01	297393	13.65	311018	15.11
Upper Limit	644164	11.51	594786	14.15	622036	15.61
Lower Limit	161041	10.51	148697	13.15	155509	14.61
Sample ID						
WG2036963-4 CCAL	318818	11.01	-	-	-	-
WG2036963-5 CCAL	325681	11.01	-	-	-	-
WG2036767-1 BLANK	292219	11.01	290651	13.64	309623	15.11
WG2036767-2 LCS	267452	11.01	262275	13.64	289749	15.11
WG2036767-3 LCSD	261567	11.01	251678	13.64	271294	15.10

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/06/25 00:49:00
Sample No	: WG2037122-3	**Lab File ID**	: ABN0305N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2037122-3	73068	6.37	265385	7.81	170121	9.57
Upper Limit	146136	6.87	530770	8.31	340242	10.07
Lower Limit	36534	5.87	132693	7.31	85061	9.07
Sample ID						
WG2037122-4 CCAL	68803	6.37	246463	7.81	148400	9.57
WG2037122-5 CCAL	71316	6.37	-	-	154260	9.57
MW-11D	62998	6.37	242244	7.81	139387	9.57

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/06/25 00:49:00
Sample No	: WG2037122-3	**Lab File ID**	: ABN0305N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2037122-3	330097	11.01	331360	13.64	342841	15.11
Upper Limit	660194	11.51	662720	14.14	685682	15.61
Lower Limit	165049	10.51	165680	13.14	171421	14.61
Sample ID						
WG2037122-4 CCAL	297709	11.01	-	-	-	-
WG2037122-5 CCAL	299241	11.01	-	-	-	-
MW-11D	267790	11.01	262331	13.64	283564	15.11

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/06/25 05:55
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 11529-01	**Analyst**	: SMZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/06/25 05:55
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 11529-01	**Analyst**	: SMZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036767-1	**Date Collected**	: NA
Client ID	: WG2036767-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/25 13:33
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 036767-1	**Analyst**	: SMZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036767-1	**Date Collected**	: NA
Client ID	: WG2036767-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/25 13:33
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 036767-1	**Analyst**	: SMZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.6	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : 11529-01.D
Acq On : 6 Mar 2025 5:55 am
Operator : SV106:smz
Sample : L2511529-01,32,,ASK
Misc : WG2037122,WG2036767,ical21604
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 15:31:38 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 02:00:35 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305NRVT\ABN0305n.D
: 2 - I:\8270\SV106\250305NRVT\ADP0305n.D
: 3 - I:\8270\SV106\250305NRVT\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.372	152	62998	4.000	ug/ml		0.00
Standard Area 1 = 73068			Recovery = 86.22%				
27) IS2_1,4-Dichlorobenzen...	6.372	152	62998	4.000	ug/ml		0.00
Standard Area 3 = 68803			Recovery = 91.56%				
35) IS1_Naphthalene-d8	7.807	136	242244	4.000	ug/ml	#	0.00
Standard Area 1 = 265385			Recovery = 91.28%				
55) IS2_Naphthalene-d8	7.807	136	242244	4.000	ug/ml	#	0.00
Standard Area 3 = 246463			Recovery = 98.29%				
63) IS1_Acenaphthene-d10	9.572	164	139387	4.000	ug/ml		0.00
Standard Area 1 = 170121			Recovery = 81.93%				
83) IS2_Acenaphthene-d10	9.572	164	139387	4.000	ug/ml		0.00
Standard Area 3 = 148400			Recovery = 93.93%				
86) IS3_Acenaphthene-d10	9.572	164	139387	4.000	ug/ml		0.00
Standard Area 2 = 154260			Recovery = 90.36%				
88) IS1_Phenanthrene-d10	11.007	188	267790	4.000	ug/ml		0.00
Standard Area 1 = 330097			Recovery = 81.12%				
100) IS3_Phenanthrene-d10	11.007	188	267790	4.000	ug/ml		0.00
Standard Area 2 = 299241			Recovery = 89.49%				
104) IS1_Chrysene-d12	13.642	240	262331	4.000	ug/ml		0.00
Standard Area 1 = 331360			Recovery = 79.17%				
113) IS1_Perylene-d12	15.107	264	283564	4.000	ug/ml		0.00
Standard Area 1 = 342841			Recovery = 82.71%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.407	112	17141	0.875	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 43.75%				
7) Phenol-d6	6.007	99	15829	0.671	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.55%				
19) Nitrobenzene-d5	7.037	82	18913	0.883	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 88.30%				
46) 2-Fluorobiphenyl	8.931	172	42195	0.753	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 75.30%				
79) 2,4,6-Tribromophenol	10.336	330	9331	1.183	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 59.15%				
96) 4-Terphenyl-d14	12.595	244	51083	0.711	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.10%				

Data Path : I:\8270\SV106\250305NRVT\
Data File : 11529-01.D
Acq On : 6 Mar 2025 5:55 am
Operator : SV106:smz
Sample : L2511529-01,32,,ASK
Misc : WG2037122,WG2036767,ical21604
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 15:31:38 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 02:00:35 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305NRVT\ABN0305n.D
: 2 - I:\8270\SV106\250305NRVT\ADP0305n.D
: 3 - I:\8270\SV106\250305NRVT\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.	d	
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\250305NRVT\
Data File : 11529-01.D
Acq On : 6 Mar 2025 5:55 am
Operator : SV106:smz
Sample : L2511529-01,32,,ASK
Misc : WG2037122,WG2036767,ical21604
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 15:31:38 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 02:00:35 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305NRVT\ABN0305n.D
: 2 - I:\8270\SV106\250305NRVT\ADP0305n.D
: 3 - I:\8270\SV106\250305NRVT\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

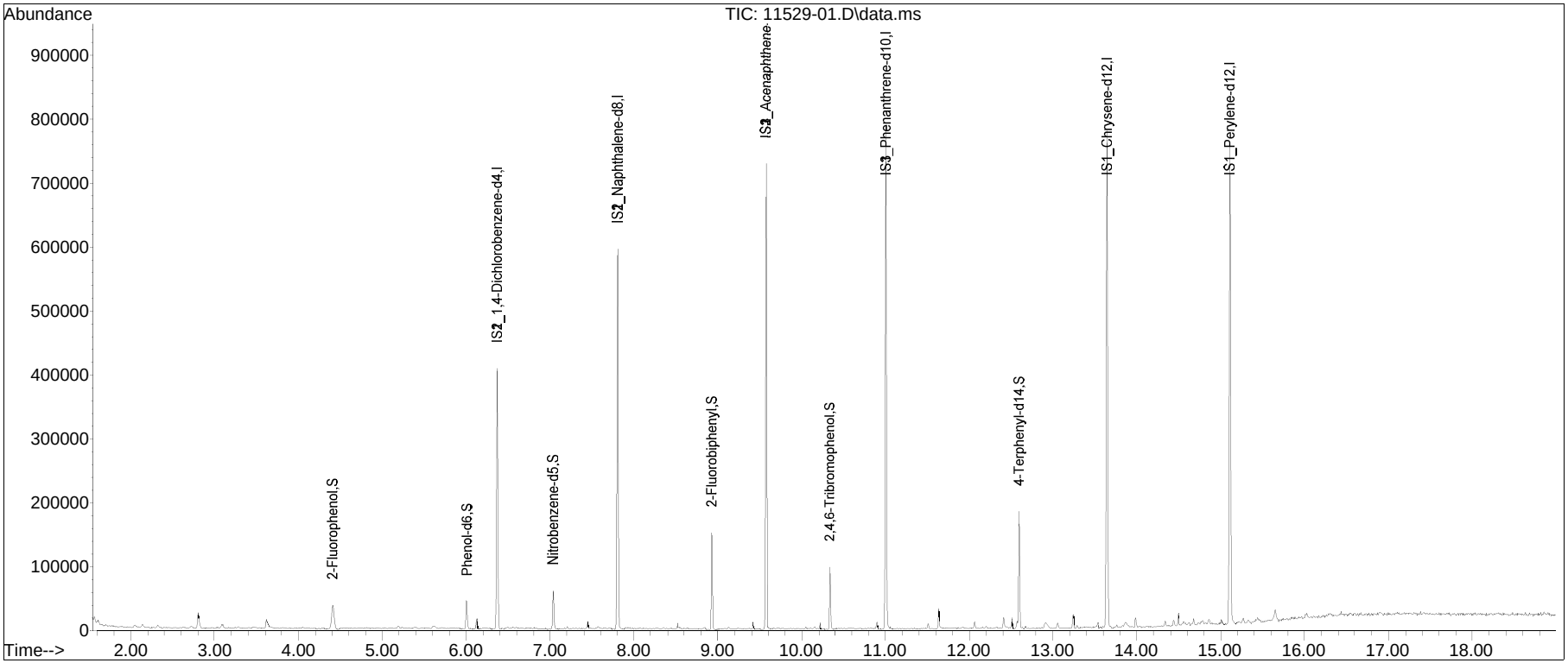
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : 11529-01.D
Acq On : 6 Mar 2025 5:55 am
Operator : SV106:smz
Sample : L2511529-01,32,,ASK
Misc : WG2037122,WG2036767,ical21604
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 06 15:31:38 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 02:00:35 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90305n.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250305NRVT\	QMethod	: FS241009SV106.m
Data File	: 11529-01.D	Operator	: SV106:smz
Date Inj'd	: 3/6/2025 5:55 am	Instrument	: SV 106
Sample	: L2511529-01,32,,ASK	Quant Date	: 3/6/2025 6:14 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.D L6 =ADPL6.D L7 =ADPL7.D

L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.794	0.791	0.767	0.739	0.714	0.756	0.724	0.759	0.797	0.760	4.03
3)	t	Pyridine	1.259	1.357	1.206	1.165	1.167	1.210	1.166	1.206	1.233	1.219	4.99
4)	S	2-Fluorophenol	1.469	1.303	1.174	1.186	1.133	1.228	1.179	1.261	1.267	1.245	8.05
5)	T	Aniline	1.663	1.751	1.672	1.834	1.671	1.817	1.760	1.844	1.927	1.771	5.20
6)	t	2-Chlorophenol	1.427	1.504	1.219	1.353	1.263	1.386	1.328	1.380	1.426	1.365	6.39
7)	S	Phenol-d6	1.690	1.672	1.373	1.453	1.356	1.471	1.439	1.490	1.538	1.498	7.85
8)	T	Phenol	1.782	1.590	1.411	1.532	1.437	1.569	1.508	1.563	1.599	1.555	6.90
9)	T	bis(2-Chloroethyl)ether	1.547	1.430	1.155	1.205	1.157	1.290	1.215	1.243	1.282	1.280	10.18
10)	T	1,3-Dichlorobenzene	1.810	1.795	1.663	1.645	1.555	1.636	1.587	1.649	1.679	1.669	5.09
11)	T	1,4-Dichlorobenzene	1.853	1.897	1.663	1.742	1.547	1.652	1.586	1.663	1.696	1.700	6.76
12)	T	1,2-Dichlorobenzene	1.987	1.723	1.549	1.575	1.494	1.609	1.530	1.580	1.625	1.630	9.12
13)	t	Benzyl alcohol	1.155	1.145	0.982	1.001	0.932	1.064	1.047	1.076	1.140	1.060	7.40
14)	T	bis(2-chloroisopropyl)ether	2.486	2.142	1.894	2.011	1.807	1.970	1.888	1.935	1.990	2.014	9.94
15)	T	2-Methylphenol	1.240	1.140	1.057	1.085	1.025	1.140	1.101	1.148	1.174	1.123	5.75
16)	T	Hexachloroethane	0.710	0.636	0.598	0.613	0.559	0.601	0.584	0.612	0.612	0.614	6.85
17)	T	n-Nitrosodi-n-propylamine	1.069	1.007	0.853	0.911	0.822	0.960	0.916	0.940	0.985	0.940	8.11
18)	T	3-Methylphenol/4-Methylphenol	1.351	1.247	1.151	1.188	1.120	1.250	1.202	1.243	1.276	1.225	5.66
19)	S	Nitrobenzene-d5	1.664	1.365	1.257	1.277	1.207	1.373	1.329	1.366	1.397	1.359	9.59
20)	T	Nitrobenzene	1.673	1.444	1.291	1.318	1.233	1.384	1.363	1.378	1.417	1.389	8.97
21)	T	Isophorone	2.685	2.494	2.213	2.320	2.136	2.481	2.408	2.450	2.557	2.416	7.06
22)	T	2-Nitrophenol	0.725	0.742	0.599	0.681	0.644	0.752	0.721	0.771	0.778	0.713	8.43
23)	T	2,4-Dimethylphenol	1.273	1.164	1.053	1.089	1.008	1.124	1.080	1.101	1.174	1.119	6.94
24)	T	bis(2-Chloroethoxy)methane	1.915	1.579	1.540	1.620	1.443	1.643	1.577	1.573	1.636	1.614	7.92
25)	T	2,4-Dichlorophenol	1.404	1.292	1.102	1.201	1.140	1.303	1.232	1.275	1.302	1.250	7.39
26)	T	1,2,4-Trichlorobenzene	1.696	1.587	1.414	1.423	1.316	1.411	1.381	1.403	1.407	1.449	8.08
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.774	0.848	0.995	0.869	1.012	0.975	0.981	0.966	1.108	0.948	10.60
29)	T	Acetophenone	1.728	1.786	1.934	1.608	1.877	1.809	1.798	1.826	2.091	1.829	7.34
30)	T	m-Toluidine			1.396	1.351	1.634	1.628	1.682	1.683	1.912	1.612	11.74
31)	T	2-Chloroaniline	1.363	1.516	1.622	1.464	1.694	1.652	1.649	1.650	1.874	1.609	9.14
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane		0.609	0.450	0.607	0.439	0.395	0.462	0.456	0.466	0.485	16.26
34)	T	n-Decane		1.504	1.315	1.921	1.407	1.268	1.487	1.469	1.516	1.486	13.30
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.353	1.228	1.064	1.107	1.009	1.089	1.067	1.105	1.142	1.129	9.13

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
37)	T	Benzoic Acid					0.158	0.213	0.243	0.276	0.289		*L	0.9994
38)	T	4-Chloroaniline	0.123	0.144	0.111	0.131	0.114	0.129	0.126	0.130	0.132	0.127	7.95	
39)	T	Hexachlorobutadiene	0.255	0.262	0.221	0.246	0.219	0.239	0.226	0.235	0.245	0.239	6.22	
40)	T	p-Chloro-m-cresol	0.301	0.309	0.257	0.286	0.264	0.305	0.303	0.314	0.327	0.296	7.79	
41)	T	2-Methylnaphthalene	0.899	0.803	0.686	0.722	0.672	0.747	0.726	0.750	0.767	0.752	9.00	
42)	T	1-Methylnaphthalene	0.294	0.265	0.228	0.236	0.211	0.237	0.231	0.240	0.249	0.243	9.82	
43)	T	Hexachlorocyclopentadiene	0.266	0.278	0.246	0.258	0.238	0.261	0.259	0.268	0.283	0.262	5.37	
44)	T	2,4,6-Trichlorophenol	0.306	0.284	0.252	0.258	0.243	0.285	0.278	0.281	0.289	0.275	7.27	
45)	T	2,4,5-Trichlorophenol	0.288	0.304	0.254	0.278	0.261	0.288	0.287	0.293	0.311	0.285	6.49	
46)	S	2-Fluorobiphenyl	1.120	0.991	0.853	0.900	0.812	0.918	0.896	0.904	0.938	0.926	9.56	
47)	T	2-Chloronaphthalene	0.953	0.836	0.728	0.770	0.691	0.769	0.763	0.763	0.788	0.785	9.50	
48)	T	2-Nitroaniline	0.252	0.211	0.195	0.201	0.187	0.234	0.241	0.241	0.248	0.223	11.09	
49)	T	1,4-Dinitrobenzene	0.113	0.112	0.103	0.101	0.101	0.122	0.123	0.124	0.128	0.114	9.32	
50)	T	1,3-Dinitrobenzene	0.132	0.104	0.110	0.125	0.108	0.136	0.137	0.134	0.139	0.125	10.98	
51)	T	Dimethyl phthalate	1.062	0.944	0.878	0.892	0.815	0.943	0.906	0.876	0.916	0.915	7.39	
52)	T	Acenaphthylene	1.355	1.229	1.072	1.123	1.033	1.177	1.163	1.165	1.210	1.170	8.00	
53)	T	2,6-Dinitrotoluene	0.193	0.168	0.161	0.182	0.167	0.204	0.200	0.196	0.202	0.186	8.97	
54)	T	1,2-Dinitrobenzene	0.088	0.079	0.069	0.082	0.071	0.086	0.085	0.081	0.084	0.081	7.92	
55)	I	IS2_Naphthalene-d8	----------ISTD----------											
56)	T	a-Terpineol	0.275	0.267	0.269	0.236	0.290	0.280	0.293	0.293	0.336	0.282	9.59	
57)	T	3-Chloroaniline	0.109	0.107	0.147	0.120	0.138	0.140	0.144	0.137	0.152	0.132	12.57	
58)	T	2,6-Dichlorophenol	0.244	0.282	0.299	0.262	0.307	0.310	0.320	0.315	0.361	0.300	11.42	
59)	T	1-chloro-2-nitrobenzene	0.128	0.138	0.151	0.127	0.151	0.146	0.151	0.149	0.169	0.145	9.06	
60)	T	Caprolactam		0.121	0.133	0.124	0.148	0.151	0.156	0.162	0.178	0.147	13.33	
61)	T	1,2,4,5-Tetrachlorobenzene	0.362	0.388	0.443	0.367	0.409	0.398	0.406	0.396	0.448	0.402	7.30	
62)	T	Biphenyl	0.800	0.845	0.953	0.829	0.952	0.925	0.914	0.914	1.032	0.907	7.94	
63)	I	IS1_Acenaphthene-d10	----------ISTD----------											
64)	T	3-Nitroaniline	0.325	0.328	0.284	0.310	0.298	0.334	0.336	0.346	0.346	0.323	6.65	
65)	T	Acenaphthene	1.468	1.237	1.049	1.163	1.000	1.107	1.100	1.148	1.141	1.157	11.64	
66)	T	2,4-Dinitrophenol					0.141	0.198	0.224	0.241	0.249		*L	1.0000
67)	T	Dibenzofuran	2.384	2.124	1.675	1.894	1.624	1.767	1.756	1.812	1.811	1.872	12.80	
68)	T	2,4-Dinitrotoluene	0.436	0.419	0.352	0.412	0.369	0.438	0.438	0.453	0.455	0.419	8.62	
69)	T	4-Nitrophenol	0.227	0.227	0.189	0.243	0.217	0.255	0.257	0.267	0.267	0.239	10.86	
70)	T	2,3,5,6-Tetrachlorophenol	0.372	0.380	0.337	0.377	0.357	0.406	0.418	0.432	0.435	0.390	8.75	
71)	T	2,3,4,6-Tetrachlorophenol	0.405	0.372	0.339	0.390	0.345	0.400	0.399	0.406	0.412	0.385	7.04	
72)	T	Diethyl phthalate	1.818	1.602	1.416	1.472	1.357	1.481	1.478	1.508	1.529	1.518	8.67	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	Fluorene	1.777	1.580	1.346	1.483	1.268	1.426	1.416	1.426	1.436	1.462	9.97
74)	T	4-Chlorophenyl-phenylether	0.990	0.829	0.702	0.742	0.632	0.721	0.710	0.716	0.711	0.750	13.75
75)	T	4-Nitroaniline	0.356	0.301	0.291	0.337	0.303	0.332	0.350	0.356	0.332	0.329	7.53
76)	T	4,6-Dinitro-o-cresol			0.168	0.203	0.212	0.263	0.285	0.300	0.308	*L	0.9982
77)	T	NDPA/DPA	1.502	1.304	1.165	1.267	1.112	1.256	1.247	1.245	1.253	1.261	8.51
78)	T	Azobenzene	1.440	1.309	1.095	1.233	1.093	1.238	1.207	1.226	1.252	1.232	8.53
79)	S	2,4,6-Tribromophenol	0.235	0.245	0.198	0.225	0.198	0.229	0.233	0.235	0.239	0.226	7.54
80)	T	4-Bromophenyl-phenylether	0.584	0.491	0.442	0.467	0.393	0.454	0.450	0.446	0.457	0.465	11.11
81)	T	Hexachlorobenzene	0.718	0.592	0.482	0.511	0.451	0.494	0.491	0.496	0.501	0.526	15.44
82)	T	Pentachlorophenol				0.264	0.266	0.325	0.342	0.351	0.363	0.319	13.63
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran			0.159	0.136	0.167	0.178	0.191	0.212	0.226	0.181	17.26
85)	T	Pentachloronitrobenzene	0.204	0.162	0.193	0.163	0.184	0.199	0.199	0.210	0.226	0.193	10.85
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine		0.376	0.330	0.478	0.406	0.394	0.422	0.452	0.462	0.415	11.80
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.504	1.339	1.033	1.155	1.048	1.124	1.097	1.144	1.118	1.174	12.95
90)	T	Anthracene	1.494	1.253	1.052	1.135	1.049	1.116	1.111	1.171	1.151	1.170	11.63
91)	T	Carbazole	1.297	1.044	0.920	1.035	0.962	1.045	1.035	1.090	1.056	1.054	9.94
92)	T	Di-n-butylphthalate	1.460	1.281	1.142	1.233	1.152	1.352	1.379	1.432	1.438	1.319	9.27
93)	T	Fluoranthene	1.613	1.418	1.239	1.306	1.215	1.347	1.322	1.385	1.336	1.353	8.60
94)	T	Benzidine			0.595	0.722	0.695	0.841	0.850	0.871	0.857	0.776	13.67
95)	T	Pyrene	1.693	1.490	1.310	1.402	1.290	1.410	1.405	1.444	1.408	1.428	8.18
96)	S	4-Terphenyl-d14	1.298	1.156	0.979	1.043	0.954	1.059	1.053	1.072	1.048	1.073	9.45
97)	T	Butyl benzyl phthalate	0.554	0.490	0.442	0.498	0.483	0.600	0.617	0.646	0.660	0.555	14.35
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.461	0.460	0.464	0.452	0.481	0.530	0.521	0.569	0.607	0.505	10.94
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane		0.432	0.385	0.572	0.478	0.483	0.501	0.513	0.519	0.485	11.71
102)	T	Parathion		0.083	0.076	0.113	0.097	0.104	0.125	0.145	0.157	*Q	0.9979
103)	T	3,3'-Dimethylbenzidine				0.800	0.702	0.747	0.896	0.958		0.821	12.85
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.766	1.533	1.218	1.308	1.238	1.316	1.294	1.390	1.349	1.379	12.46
106)	T	3,3'-Dichlorobenzidine	0.462	0.427	0.372	0.440	0.426	0.468	0.473	0.516	0.494	0.453	9.40
107)	T	Chrysene	1.714	1.447	1.236	1.320	1.201	1.260	1.208	1.295	1.232	1.324	12.45
108)	T	bis(2-Ethylhexyl)phthalate	0.830	0.764	0.664	0.758	0.765	0.896	0.898	0.925	0.952	0.828	11.62

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21604**
Calibration dates	**: 10/09/24 20:07 10/11/24 15:53**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Di-n-octylphthalate	1.260	1.251	1.050	1.157	1.225	1.506	1.554	1.655	1.700	1.373	17.03
110)	T	Benzo(b)fluoranthene	1.483	1.369	1.200	1.339	1.248	1.285	1.347	1.364	1.342	1.331	6.09
111)	T	Benzo(k)fluoranthene	1.430	1.322	1.109	1.208	1.121	1.257	1.124	1.332	1.254	1.240	8.91
112)	T	Benzo(a)pyrene	1.236	1.183	0.962	1.139	1.084	1.160	1.144	1.266	1.223	1.155	7.93
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.397	1.246	1.043	1.161	1.132	1.211	1.255	1.319	1.150	1.213	8.75
115)	T	Dibenzo[a,h]anthracene	1.310	1.235	1.009	1.135	1.085	1.161	1.154	1.202	1.089	1.153	7.73
116)	T	Benzo(g,h,i)perylene	1.280	1.167	0.971	1.084	1.022	1.086	1.080	1.122	0.906	1.080	10.10

Response Factor Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.794	0.791	0.767	0.739	0.714	0.756	0.724	0.759	0.797	0.760	4.03
3)	t	Pyridine	1.259	1.357	1.206	1.165	1.167	1.210	1.166	1.206	1.233	1.219	4.99
4)	S	2-Fluorophenol	1.469	1.303	1.174	1.186	1.133	1.228	1.179	1.261	1.267	1.245	8.05
5)	T	Aniline	1.663	1.751	1.672	1.834	1.671	1.817	1.760	1.844	1.927	1.771	5.20
6)	t	2-Chlorophenol	1.427	1.504	1.219	1.353	1.263	1.386	1.328	1.380	1.426	1.365	6.39
7)	S	Phenol-d6	1.690	1.672	1.373	1.453	1.356	1.471	1.439	1.490	1.538	1.498	7.85
8)	T	Phenol	1.782	1.590	1.411	1.532	1.437	1.569	1.508	1.563	1.599	1.555	6.90
9)	T	bis(2-Chloroethyl)ether	1.547	1.430	1.155	1.205	1.157	1.290	1.215	1.243	1.282	1.280	10.18
10)	T	1,3-Dichlorobenzene	1.810	1.795	1.663	1.645	1.555	1.636	1.587	1.649	1.679	1.669	5.09
11)	T	1,4-Dichlorobenzene	1.853	1.897	1.663	1.742	1.547	1.652	1.586	1.663	1.696	1.700	6.76
12)	T	1,2-Dichlorobenzene	1.987	1.723	1.549	1.575	1.494	1.609	1.530	1.580	1.625	1.630	9.12
13)	t	Benzyl alcohol	1.155	1.145	0.982	1.001	0.932	1.064	1.047	1.076	1.140	1.060	7.40
14)	T	bis(2-chloroisopropyl)ether	2.486	2.142	1.894	2.011	1.807	1.970	1.888	1.935	1.990	2.014	9.94
15)	T	2-Methylphenol	1.240	1.140	1.057	1.085	1.025	1.140	1.101	1.148	1.174	1.123	5.75
16)	T	Hexachloroethane	0.710	0.636	0.598	0.613	0.559	0.601	0.584	0.612	0.612	0.614	6.85
17)	T	n-Nitrosodi-n-propylamine	1.069	1.007	0.853	0.911	0.822	0.960	0.916	0.940	0.985	0.940	8.11
18)	T	3-Methylphenol/4-Methylphenol	1.351	1.247	1.151	1.188	1.120	1.250	1.202	1.243	1.276	1.225	5.66
19)	S	Nitrobenzene-d5	1.664	1.365	1.257	1.277	1.207	1.373	1.329	1.366	1.397	1.359	9.59
20)	T	Nitrobenzene	1.673	1.444	1.291	1.318	1.233	1.384	1.363	1.378	1.417	1.389	8.97
21)	T	Isophorone	2.685	2.494	2.213	2.320	2.136	2.481	2.408	2.450	2.557	2.416	7.06
22)	T	2-Nitrophenol	0.725	0.742	0.599	0.681	0.644	0.752	0.721	0.771	0.778	0.713	8.43
23)	T	2,4-Dimethylphenol	1.273	1.164	1.053	1.089	1.008	1.124	1.080	1.101	1.174	1.119	6.94
24)	T	bis(2-Chloroethoxy)methane	1.915	1.579	1.540	1.620	1.443	1.643	1.577	1.573	1.636	1.614	7.92
25)	T	2,4-Dichlorophenol	1.404	1.292	1.102	1.201	1.140	1.303	1.232	1.275	1.302	1.250	7.39
26)	T	1,2,4-Trichlorobenzene	1.696	1.587	1.414	1.423	1.316	1.411	1.381	1.403	1.407	1.449	8.08
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.774	0.848	0.995	0.869	1.012	0.975	0.981	0.966	1.108	0.948	10.60
29)	T	Acetophenone	1.728	1.786	1.934	1.608	1.877	1.809	1.798	1.826	2.091	1.829	7.34
30)	T	m-Toluidine			1.396	1.351	1.634	1.628	1.682	1.683	1.912	1.612	11.74
31)	T	2-Chloroaniline	1.363	1.516	1.622	1.464	1.694	1.652	1.649	1.650	1.874	1.609	9.14
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane		0.609	0.450	0.607	0.439	0.395	0.462	0.456	0.466	0.485	16.26
34)	T	n-Decane		1.504	1.315	1.921	1.407	1.268	1.487	1.469	1.516	1.486	13.30
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.353	1.228	1.064	1.107	1.009	1.089	1.067	1.105	1.142	1.129	9.13
37)	T	Benzoic Acid					0.158	0.213	0.243	0.276	0.289	*L	0.9994
38)	T	4-Chloroaniline	0.123	0.144	0.111	0.131	0.114	0.129	0.126	0.130	0.132	0.127	7.95
39)	T	Hexachlorobutadiene	0.255	0.262	0.221	0.246	0.219	0.239	0.226	0.235	0.245	0.239	6.22
40)	T	p-Chloro-m-cresol	0.301	0.309	0.257	0.286	0.264	0.305	0.303	0.314	0.327	0.296	7.79
41)	T	2-Methylnaphthalene	0.899	0.803	0.686	0.722	0.672	0.747	0.726	0.750	0.767	0.752	9.00
42)	T	1-Methylnaphthalene	0.294	0.265	0.228	0.236	0.211	0.237	0.231	0.240	0.249	0.243	9.82
43)	T	Hexachlorocyclopentadiene	0.266	0.278	0.246	0.258	0.238	0.261	0.259	0.268	0.283	0.262	5.37
44)	T	2,4,6-Trichlorophenol	0.306	0.284	0.252	0.258	0.243	0.285	0.278	0.281	0.289	0.275	7.27
45)	T	2,4,5-Trichlorophenol	0.288	0.304	0.254	0.278	0.261	0.288	0.287	0.293	0.311	0.285	6.49

Response Factor Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	1.120	0.991	0.853	0.900	0.812	0.918	0.896	0.904	0.938	0.926	9.56
47)	T	2-Chloronaphthalene	0.953	0.836	0.728	0.770	0.691	0.769	0.763	0.763	0.788	0.785	9.50
48)	T	2-Nitroaniline	0.252	0.211	0.195	0.201	0.187	0.234	0.241	0.241	0.248	0.223	11.09
49)	T	1,4-Dinitrobenzene	0.113	0.112	0.103	0.101	0.101	0.122	0.123	0.124	0.128	0.114	9.32
50)	T	1,3-Dinitrobenzene	0.132	0.104	0.110	0.125	0.108	0.136	0.137	0.134	0.139	0.125	10.98
51)	T	Dimethyl phthalate	1.062	0.944	0.878	0.892	0.815	0.943	0.906	0.876	0.916	0.915	7.39
52)	T	Acenaphthylene	1.355	1.229	1.072	1.123	1.033	1.177	1.163	1.165	1.210	1.170	8.00
53)	T	2,6-Dinitrotoluene	0.193	0.168	0.161	0.182	0.167	0.204	0.200	0.196	0.202	0.186	8.97
54)	T	1,2-Dinitrobenzene	0.088	0.079	0.069	0.082	0.071	0.086	0.085	0.081	0.084	0.081	7.92
55)	I	IS2_Naphthalene-d8	ISTD										
56)	T	a-Terpineol	0.275	0.267	0.269	0.236	0.290	0.280	0.293	0.293	0.336	0.282	9.59
57)	T	3-Chloroaniline	0.109	0.107	0.147	0.120	0.138	0.140	0.144	0.137	0.152	0.132	12.57
58)	T	2,6-Dichlorophenol	0.244	0.282	0.299	0.262	0.307	0.310	0.320	0.315	0.361	0.300	11.42
59)	T	1-chloro-2-nitrobenzene	0.128	0.138	0.151	0.127	0.151	0.146	0.151	0.149	0.169	0.145	9.06
60)	T	Caprolactam		0.121	0.133	0.124	0.148	0.151	0.156	0.162	0.178	0.147	13.33
61)	T	1,2,4,5-Tetrachlorobenzene	0.362	0.388	0.443	0.367	0.409	0.398	0.406	0.396	0.448	0.402	7.30
62)	T	Biphenyl	0.800	0.845	0.953	0.829	0.952	0.925	0.914	0.914	1.032	0.907	7.94
63)	I	IS1_Acenaphthene-d10	ISTD										
64)	T	3-Nitroaniline	0.325	0.328	0.284	0.310	0.298	0.334	0.336	0.346	0.346	0.323	6.65
65)	T	Acenaphthene	1.468	1.237	1.049	1.163	1.000	1.107	1.100	1.148	1.141	1.157	11.64
66)	T	2,4-Dinitrophenol					0.141	0.198	0.224	0.241	0.249	*L	1.0000
67)	T	Dibenzofuran	2.384	2.124	1.675	1.894	1.624	1.767	1.756	1.812	1.811	1.872	12.80
68)	T	2,4-Dinitrotoluene	0.436	0.419	0.352	0.412	0.369	0.438	0.438	0.453	0.455	0.419	8.62
69)	T	4-Nitrophenol	0.227	0.227	0.189	0.243	0.217	0.255	0.257	0.267	0.267	0.239	10.86
70)	T	2,3,5,6-Tetrachlorophenol	0.372	0.380	0.337	0.377	0.357	0.406	0.418	0.432	0.435	0.390	8.75
71)	T	2,3,4,6-Tetrachlorophenol	0.405	0.372	0.339	0.390	0.345	0.400	0.399	0.406	0.412	0.385	7.04
72)	T	Diethyl phthalate	1.818	1.602	1.416	1.472	1.357	1.481	1.478	1.508	1.529	1.518	8.67
73)	T	Fluorene	1.777	1.580	1.346	1.483	1.268	1.426	1.416	1.426	1.436	1.462	9.97
74)	T	4-Chlorophenyl-phenylether	0.990	0.829	0.702	0.742	0.632	0.721	0.710	0.716	0.711	0.750	13.75
75)	T	4-Nitroaniline	0.356	0.301	0.291	0.337	0.303	0.332	0.350	0.356	0.332	0.329	7.53
76)	T	4,6-Dinitro-o-cresol			0.168	0.203	0.212	0.263	0.285	0.300	0.308	*L	0.9982
77)	T	NDPA/DPA	1.502	1.304	1.165	1.267	1.112	1.256	1.247	1.245	1.253	1.261	8.51
78)	T	Azobenzene	1.440	1.309	1.095	1.233	1.093	1.238	1.207	1.226	1.252	1.232	8.53
79)	S	2,4,6-Tribromophenol	0.235	0.245	0.198	0.225	0.198	0.229	0.233	0.235	0.239	0.226	7.54
80)	T	4-Bromophenyl-phenylether	0.584	0.491	0.442	0.467	0.393	0.454	0.450	0.446	0.457	0.465	11.11
81)	T	Hexachlorobenzene	0.718	0.592	0.482	0.511	0.451	0.494	0.491	0.496	0.501	0.526	15.44
82)	T	Pentachlorophenol				0.264	0.266	0.325	0.342	0.351	0.363	0.319	13.63
83)	I	IS2_Acenaphthene-d10	ISTD										
84)	T	Dichloran			0.159	0.136	0.167	0.178	0.191	0.212	0.226	0.181	17.26
85)	T	Pentachloronitrobenzene	0.204	0.162	0.193	0.163	0.184	0.199	0.199	0.210	0.226	0.193	10.85
86)	I	IS3_Acenaphthene-d10	ISTD										
87)	T	Atrazine		0.376	0.330	0.478	0.406	0.394	0.422	0.452	0.462	0.415	11.80
88)	I	IS1_Phenanthrene-d10	ISTD										
89)	T	Phenanthrene	1.504	1.339	1.033	1.155	1.048	1.124	1.097	1.144	1.118	1.174	12.95
90)	T	Anthracene	1.494	1.253	1.052	1.135	1.049	1.116	1.111	1.171	1.151	1.170	11.63

Response Factor Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ABNL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

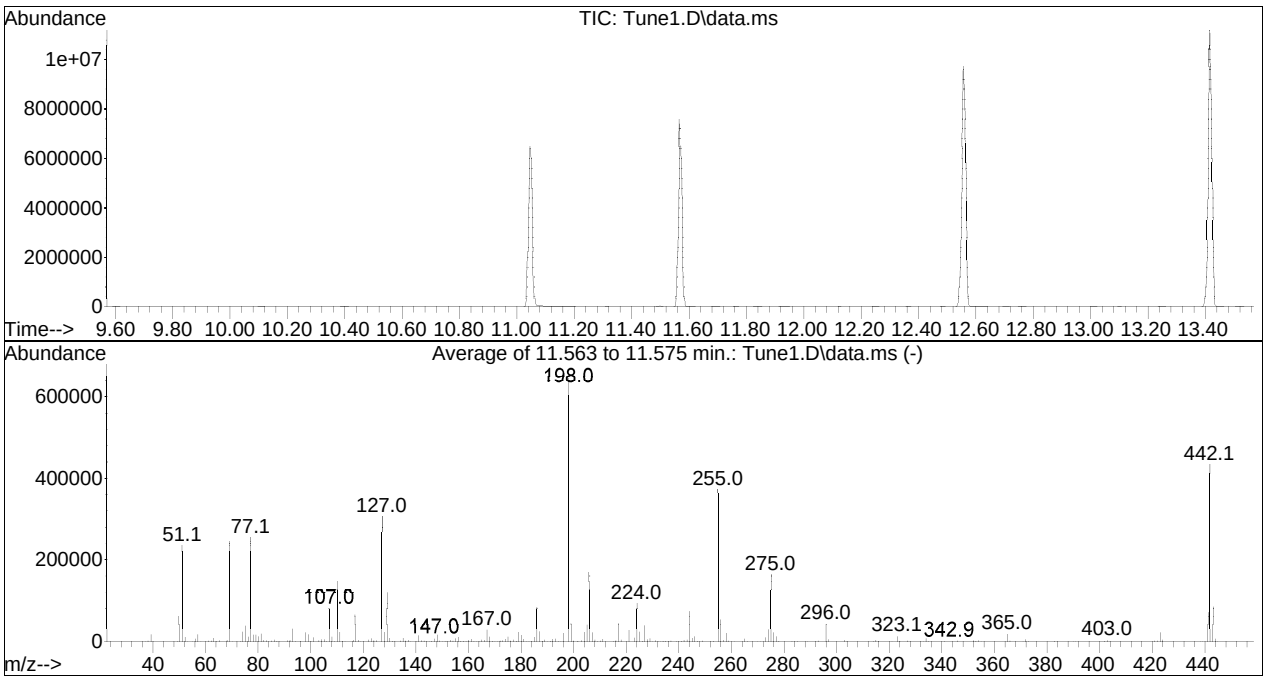
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Carbazole	1.297	1.044	0.920	1.035	0.962	1.045	1.035	1.090	1.056	1.054	9.94
92)	T	Di-n-butylphthalate	1.460	1.281	1.142	1.233	1.152	1.352	1.379	1.432	1.438	1.319	9.27
93)	T	Fluoranthene	1.613	1.418	1.239	1.306	1.215	1.347	1.322	1.385	1.336	1.353	8.60
94)	T	Benzidine			0.595	0.722	0.695	0.841	0.850	0.871	0.857	0.776	13.67
95)	T	Pyrene	1.693	1.490	1.310	1.402	1.290	1.410	1.405	1.444	1.408	1.428	8.18
96)	S	4-Terphenyl-d14	1.298	1.156	0.979	1.043	0.954	1.059	1.053	1.072	1.048	1.073	9.45
97)	T	Butyl benzyl phthalate	0.554	0.490	0.442	0.498	0.483	0.600	0.617	0.646	0.660	0.555	14.35
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.461	0.460	0.464	0.452	0.481	0.530	0.521	0.569	0.607	0.505	10.94
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane		0.432	0.385	0.572	0.478	0.483	0.501	0.513	0.519	0.485	11.71
102)	T	Parathion		0.083	0.076	0.113	0.097	0.104	0.125	0.145	0.157	*Q	0.9979
103)	T	3,3'-Dimethylbenzidine				0.800	0.702	0.747	0.896	0.958		0.821	12.85
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.766	1.533	1.218	1.308	1.238	1.316	1.294	1.390	1.349	1.379	12.46
106)	T	3,3'-Dichlorobenzidine	0.462	0.427	0.372	0.440	0.426	0.468	0.473	0.516	0.494	0.453	9.40
107)	T	Chrysene	1.714	1.447	1.236	1.320	1.201	1.260	1.208	1.295	1.232	1.324	12.45
108)	T	bis(2-Ethylhexyl)phthalate	0.830	0.764	0.664	0.758	0.765	0.896	0.898	0.925	0.952	0.828	11.62
109)	T	Di-n-octylphthalate	1.260	1.251	1.050	1.157	1.225	1.506	1.554	1.655	1.700	1.373	17.03
110)	T	Benzo(b)fluoranthene	1.483	1.369	1.200	1.339	1.248	1.285	1.347	1.364	1.342	1.331	6.09
111)	T	Benzo(k)fluoranthene	1.430	1.322	1.109	1.208	1.121	1.257	1.124	1.332	1.254	1.240	8.91
112)	T	Benzo(a)pyrene	1.236	1.183	0.962	1.139	1.084	1.160	1.144	1.266	1.223	1.155	7.93
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.397	1.246	1.043	1.161	1.132	1.211	1.255	1.319	1.150	1.213	8.75
115)	T	Dibenzo[a,h]anthracene	1.310	1.235	1.009	1.135	1.085	1.161	1.154	1.202	1.089	1.153	7.73
116)	T	Benzo(g,h,i)perylene	1.280	1.167	0.971	1.084	1.022	1.086	1.080	1.122	0.906	1.080	10.10

(#) = Out of Range

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Oct 11 18:38:05 2024



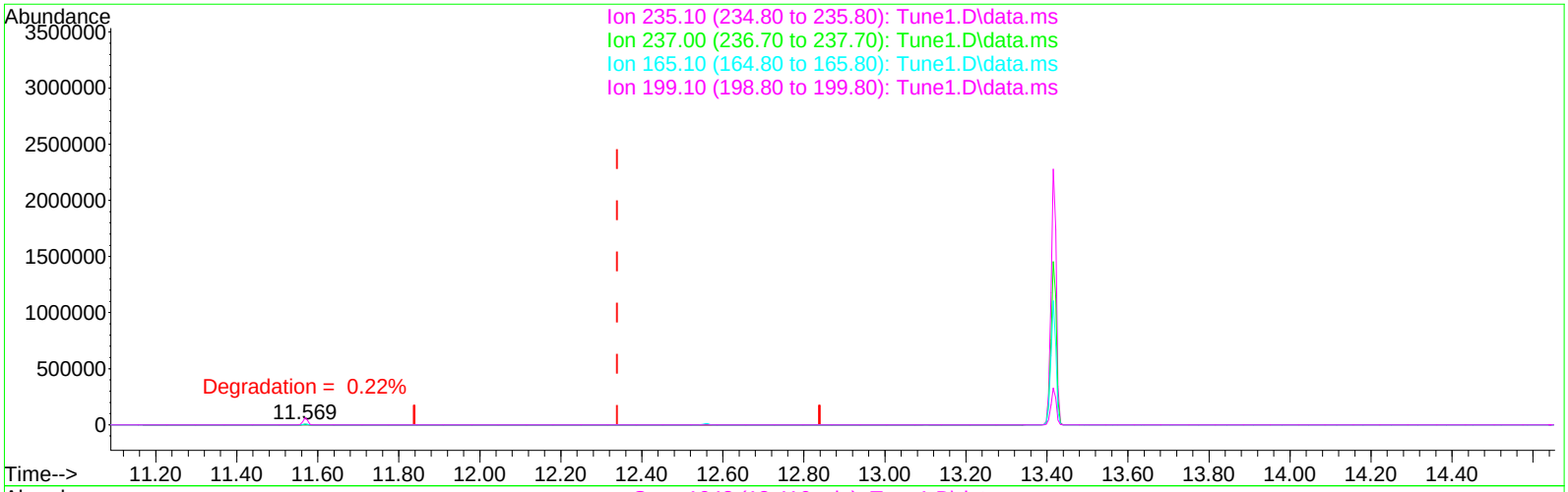
Spectrum Information: Average of 11.563 to 11.575 min.

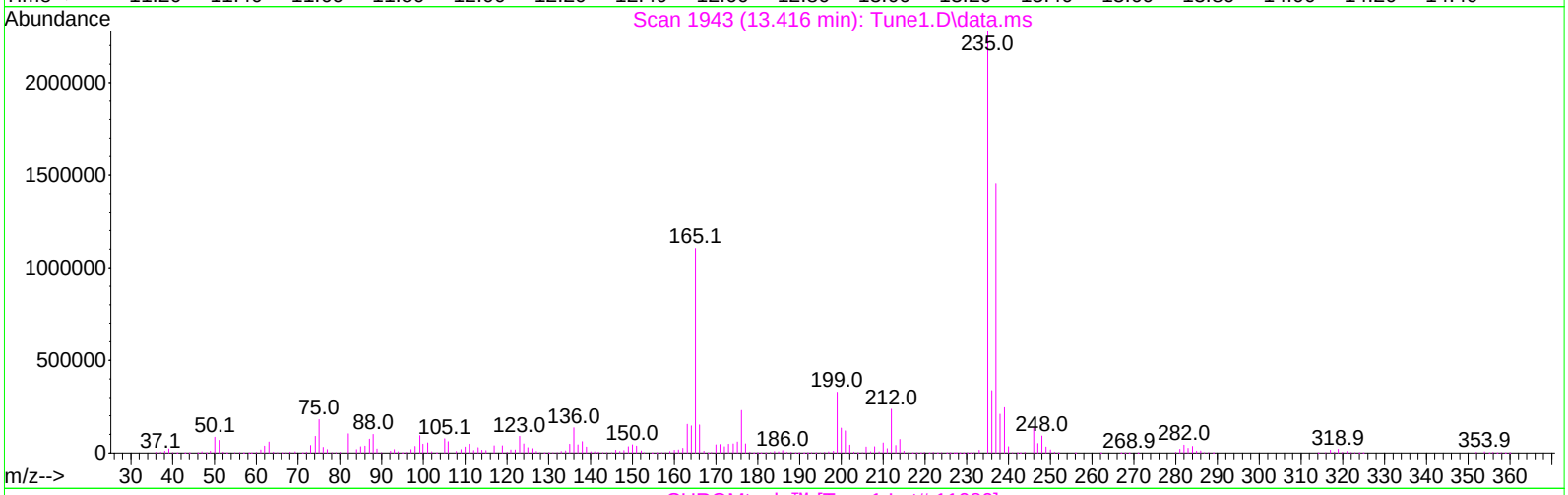
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.3	235008	PASS
68	69	0.00	2	1.7	4243	PASS
69	69	100	100	100.0	246197	PASS
70	69	0.00	2	0.5	1173	PASS
127	198	10	80	47.3	305899	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	647189	PASS
199	198	5	9	6.9	44368	PASS
275	198	10	60	25.3	163643	PASS
365	198	1	100	2.8	17966	PASS
441	442	0.01	24	16.2	70368	PASS
442	198	50	100	66.9	433096	PASS
443	442	15	24	19.5	84349	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 09 20:05:38 2024
Quant Method : I:\8270\SV106\241009RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 06 06:11:48 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11080]

(6) DDT (T)

13.416min (+ 1.077) 339.80 M2

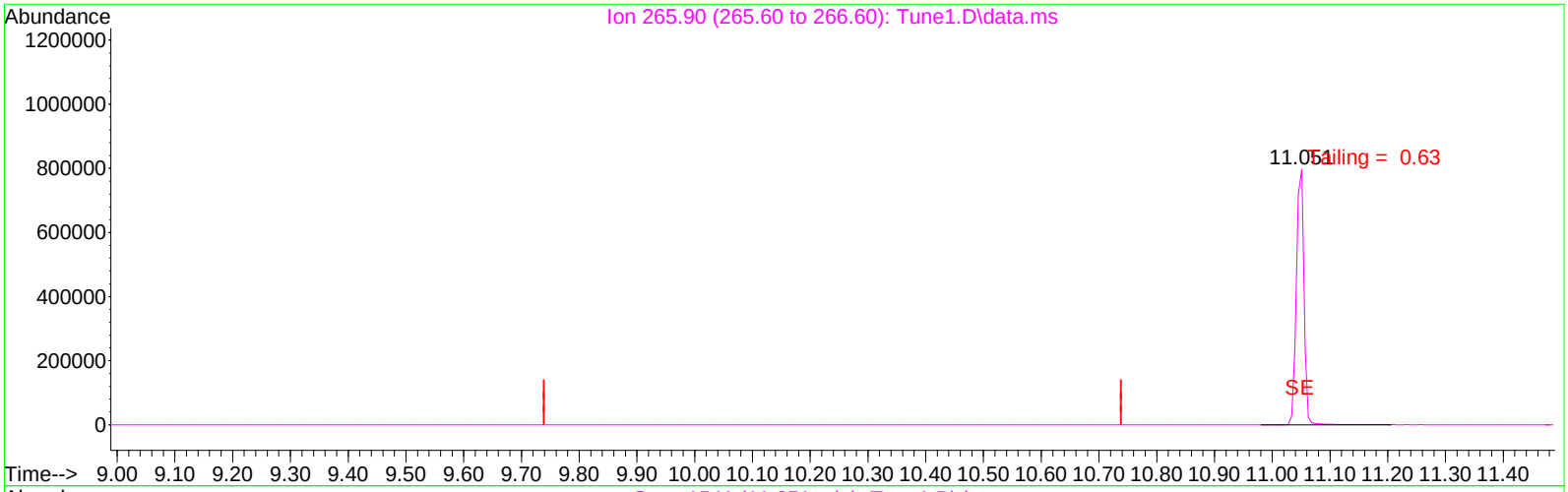
response 2071334

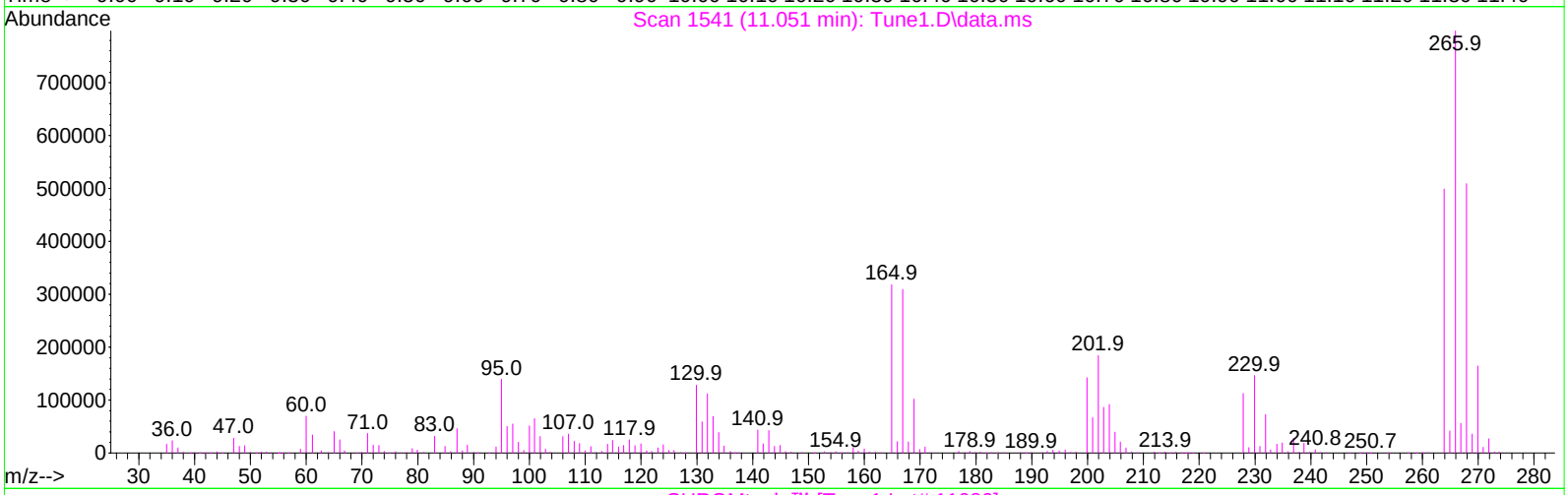
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	0.00#
165.10	44.50	0.00#
199.10	14.80	0.00#

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 09 20:05:38 2024
Quant Method : I:\8270\SV106\241009RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 06 06:11:48 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11080]

(1) Pentachlorophenol (T)

11.051min (+ 0.812) 346.47 M2

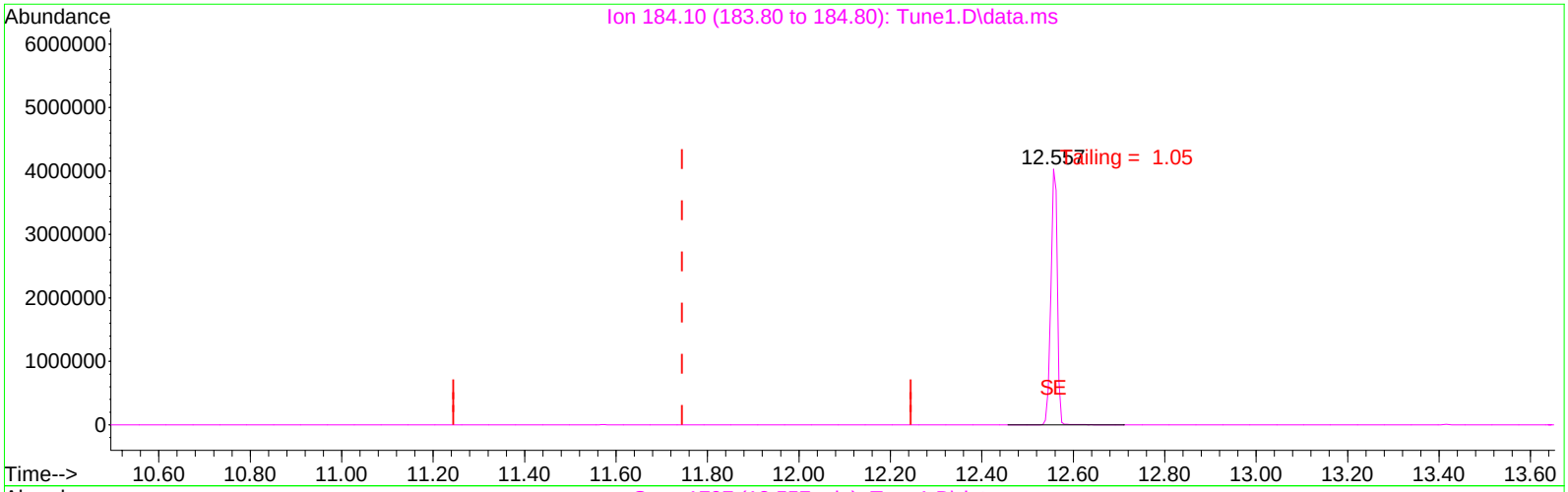
response 727717

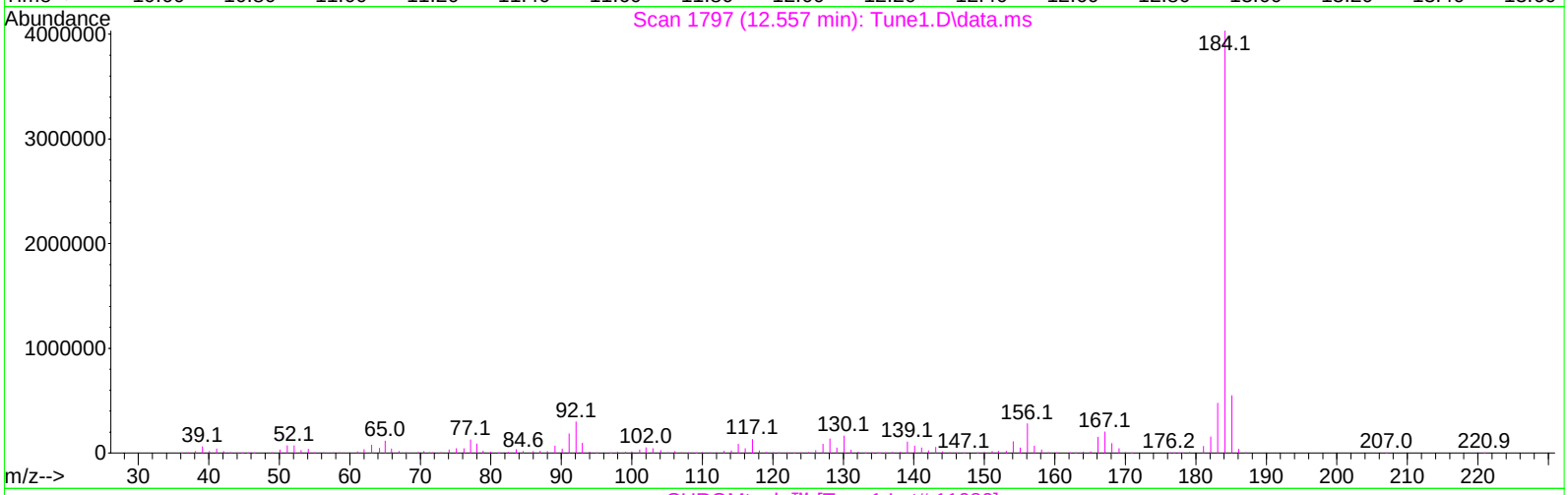
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune1.D
Acq On : 9 Oct 2024 7:43 pm
Operator : SV106:HNY
Sample : Tune1 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 09 20:05:38 2024
Quant Method : I:\8270\SV106\241009RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 06 06:11:48 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11080]

(3) Benzidine (T)

12.557min (+ 0.812) 386.56 M2

response 3935254

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	74560	4.000	ug/ml	# 0.00
Standard Area 1 = 69296			Recovery = 107.60%			
35) IS1_Naphthalene-d8	8.016	136	275431	4.000	ug/ml	0.00
Standard Area 1 = 264583			Recovery = 104.10%			
63) IS1_Acenaphthene-d10	9.775	164	170378	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 102.04%			
88) IS1_Phenanthrene-d10	11.222	188	335783	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 102.86%			
104) IS1_Chrysene-d12	13.880	240	360598	4.000	ug/ml	0.01
Standard Area 1 = 353807			Recovery = 101.92%			
113) IS1_Perylene-d12	15.357	264	385048	4.000	ug/ml	0.01
Standard Area 1 = 379737			Recovery = 101.40%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.769	112	1181054	54.805	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2740.25%#			
7) Phenol-d6	6.239	99	1433009	48.575	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2428.75%#			
19) Nitrobenzene-d5	7.251	82	1301740	43.145	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4314.50%#			
46) 2-Fluorobiphenyl	9.133	172	3230002	45.667	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4566.70%#			
79) 2,4,6-Tribromophenol	10.551	330	509334	47.965	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2398.25%#			
96) 4-Terphenyl-d14	12.810	244	4398016	48.711	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4871.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.299	74	743161	46.837	ug/ml#	67
3) Pyridine	2.328	79	1149105	44.275	ug/ml#	66
5) Aniline	6.204	93	1796082	47.037	ug/ml	95
6) 2-Chlorophenol	6.345	128	1329194	55.372	ug/ml	92
8) Phenol	6.257	94	1490044	48.690	ug/ml	97
9) Bis(2-chloroethyl)ether	6.328	93	1194874	47.543	ug/ml#	85
10) 1,3-Dichlorobenzene	6.528	146	1564709	54.281	ug/ml	98
11) 1,4-Dichlorobenzene	6.622	146	1580351	54.177	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	1514293	53.367	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.810	79	1062645	44.979	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.975	45	1854894	45.939	ug/ml#	56
15) 2-Methylphenol	6.969	108	1094022	49.632	ug/ml	98
16) Hexachloroethane	7.181	117	570349	49.138	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.128	70	918268	46.610	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.157	108	1188802	49.866	ug/ml	98
20) Nitrobenzene	7.275	77	1320199	43.102	ug/ml	97
21) Isophorone	7.551	82	2383423	46.326	ug/ml	98
22) 2-Nitrophenol	7.622	139	724763	56.207	ug/ml	88
23) 2,4-Dimethylphenol	7.722	107	1094240	45.107	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.816	93	1524948	46.018	ug/ml	98
25) 2,4-Dichlorophenol	7.886	162	1213671	52.808	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.969	180	1311393	46.591	ug/ml	96
36) Naphthalene	8.034	128	3930303	49.776	ug/ml	100
37) Benzoic Acid	7.904	105	996641	43.900	ug/ml	95
38) 4-Chloroaniline	8.116	65	454739	39.063	ug/ml	74
39) Hexachlorobutadiene	8.198	225	843919	40.496	ug/ml	99
40) p-Chloro-m-cresol	8.633	107	1126014	47.727	ug/ml	96
41) 2-Methylnaphthalene	8.751	142	2641293	50.193	ug/ml	97
42) 1-Methylnaphthalene	8.845	115	857123	42.892	ug/ml	96
43) Hexachlorocyclopentadiene	8.922	237	973395	42.107	ug/ml	99
44) 2,4,6-Trichlorophenol	9.045	196	996484	48.151	ug/ml	99
45) 2,4,5-Trichlorophenol	9.075	196	1070945	48.327	ug/ml	98
47) 2-Chloronaphthalene	9.228	162	2714409	48.509	ug/ml	96
48) 2-Nitroaniline	9.345	138	852481	50.567	ug/ml#	82
49) 1,4-Dinitrobenzene	9.480	168	440415	49.639	ug/ml#	72
50) 1,3-Dinitrobenzene	9.557	168	478257	47.303	ug/ml#	1
51) Dimethyl phthalate	9.557	163	3153002	46.298	ug/ml#	99
52) Acenaphthylene	9.633	152	4167487	48.652	ug/ml	100
53) 2,6-Dinitrotoluene	9.592	165	695345	47.422	ug/ml#	72
54) 1,2-Dinitrobenzene	9.645	168	289559	46.313	ug/ml#	1
64) 3-Nitroaniline	9.751	138	736995	54.177	ug/ml#	90
65) Acenaphthene	9.810	154	2430167	49.498	ug/ml	92
66) 2,4-Dinitrophenol	9.851	184	531316	58.485	ug/ml#	84
67) Dibenzofuran	9.980	168	3856625	46.767	ug/ml	95
68) 2,4-Dinitrotoluene	9.986	165	969550	47.938	ug/ml	86
69) 4-Nitrophenol	9.939	65	568465	41.265	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	10.069	232	926636	48.111	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.110	232	877466	47.364	ug/ml		98
72)	Diethyl phthalate	10.251	149	3256771	49.991	ug/ml		99
73)	Fluorene	10.316	166	3057557	47.146	ug/ml		94
74)	4-Chlorophenyl phenyl ...	10.327	204	1515059	44.387	ug/ml		90
75)	4-Nitroaniline	10.357	138	706331	49.872	ug/ml		82
76)	4,6-Dinitro-o-cresol	10.386	198	655908	57.857	ug/ml	#	59
77)	NDPA/DPA	10.451	169	2667684	49.606	ug/ml		99
78)	Azobenzene	10.486	77	2665664	43.282	ug/ml	#	92
80)	4-Bromophenyl phenyl e...	10.804	248	973702M3	45.721	ug/ml		
81)	Hexachlorobenzene	10.857	284	1067806	44.080	ug/ml	#	82
82)	Pentachlorophenol	11.051	266	773904	50.305	ug/ml		99
89)	Phenanthrene	11.245	178	4692549	50.038	ug/ml		100
90)	Anthracene	11.292	178	4831002	51.813	ug/ml		100
91)	Carbazole	11.463	167	4432036	51.879	ug/ml		100
92)	Di-n-butylphthalate	11.845	149	6037609	60.171	ug/ml	#	98
93)	Fluoranthene	12.404	202	5608475	48.916	ug/ml	#	92
94)	Benzidine	12.557	184	3596429	57.780	ug/ml	#	94
95)	Pyrene	12.621	202	5910145	48.897	ug/ml		99
97)	Butyl benzyl phthalate	13.333	149	2771604	60.014	ug/ml		87
105)	Benzo(a)anthracene	13.874	228	6081522	45.640	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.868	252	2226835	50.512	ug/ml	#	97
107)	Chrysene	13.915	228	5551583	43.097	ug/ml		100
108)	Bis(2-ethylhexyl)phtha...	13.974	149	4291464	58.259	ug/ml	#	93
109)	Di-n-octylphthalate	14.662	149	7663610	62.856	ug/ml	#	72
110)	Benzo(b)fluoranthene	14.992	252	6049795	46.920	ug/ml	#	94
111)	Benzo(k)fluoranthene	15.021	252	5651954M3	46.232	ug/ml		
112)	Benzo(a)pyrene	15.310	252	5512474M2	49.251	ug/ml		
114)	Indeno(1,2,3-cd)pyrene	16.380	276	5536258M6	53.154	ug/mL		
115)	Dibenzo(a,h)anthracene	16.404	278	5243490	52.291	ug/ml	#	90
116)	Benzo(ghi)perylene	16.651	276	4360525	46.984	ug/ml	#	87

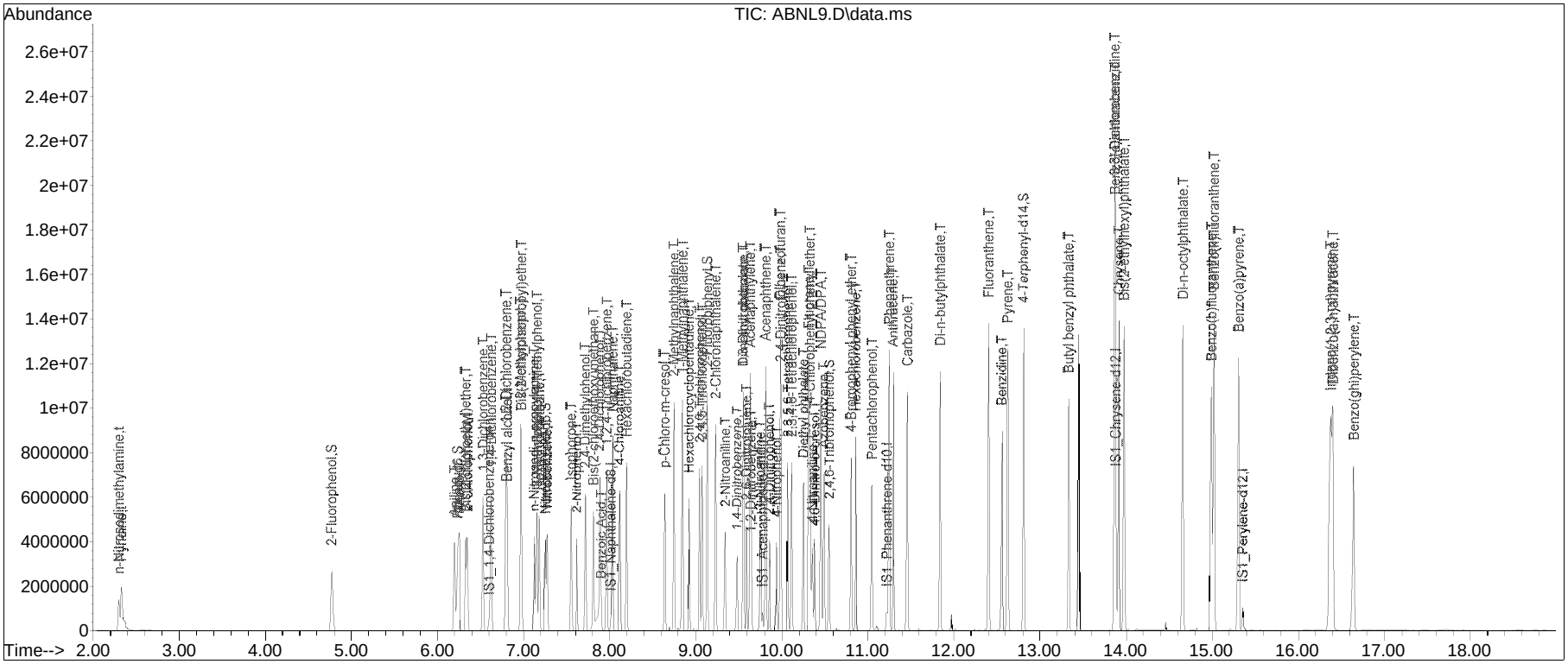
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL9.D
Acq On : 9 Oct 2024 8:07 pm
Operator : SV106:HNY
Sample : IL2,32,,ABNL50 Lot# 11004
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 11:41:27 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

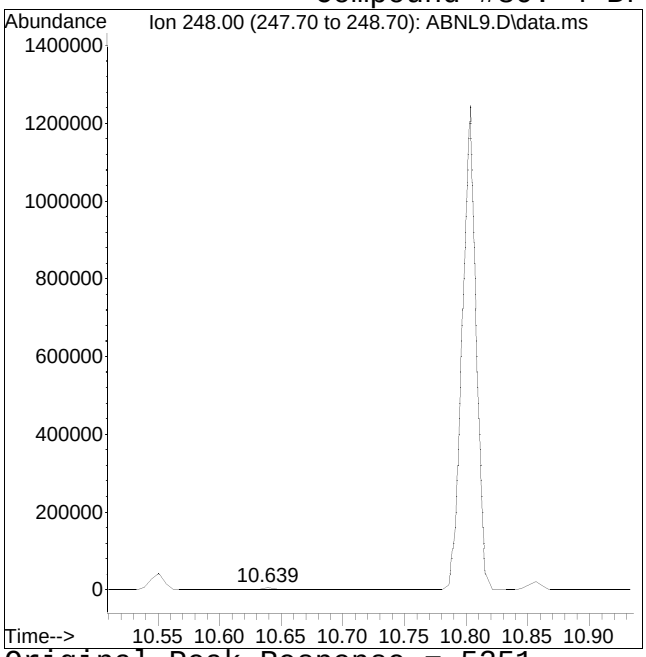
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

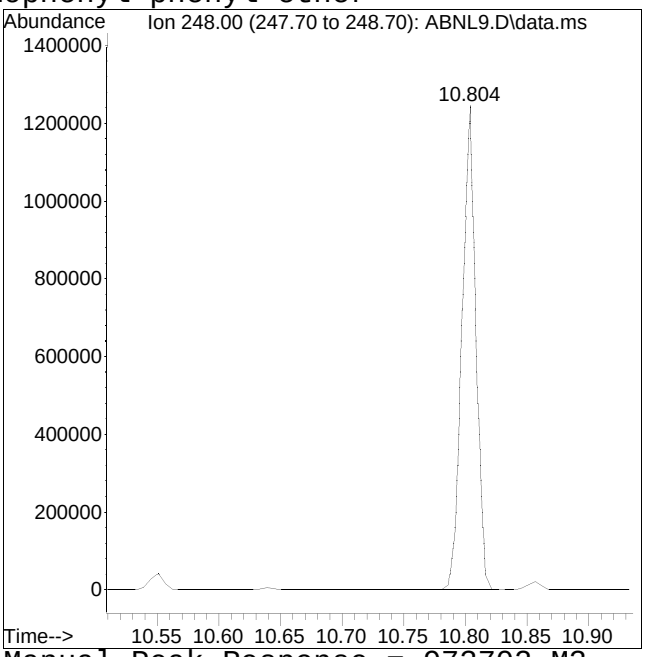


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #80: 4-Bromophenyl phenyl ether





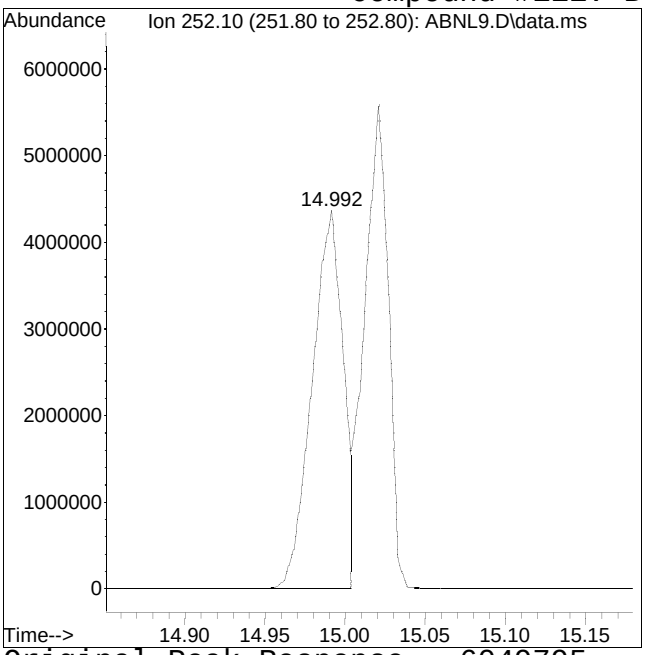
Original Peak Response = 5251 Manual Peak Response = 973702 M3

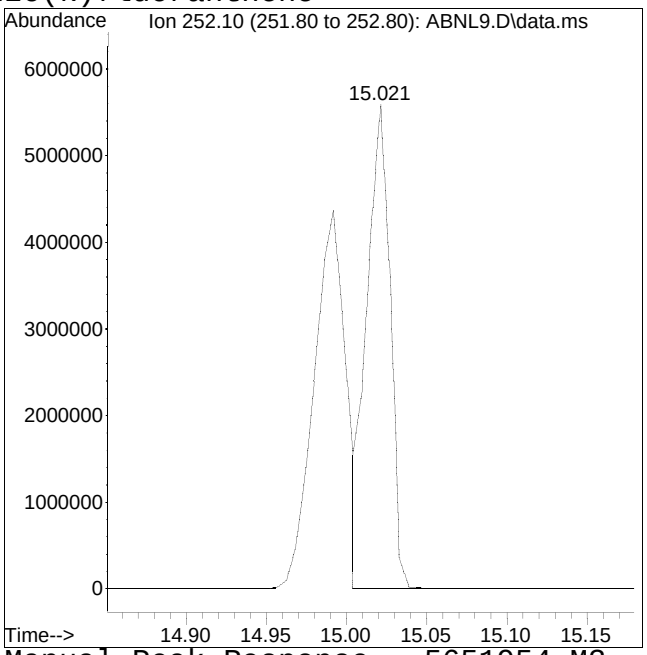
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #111: Benzo(k)fluoranthene



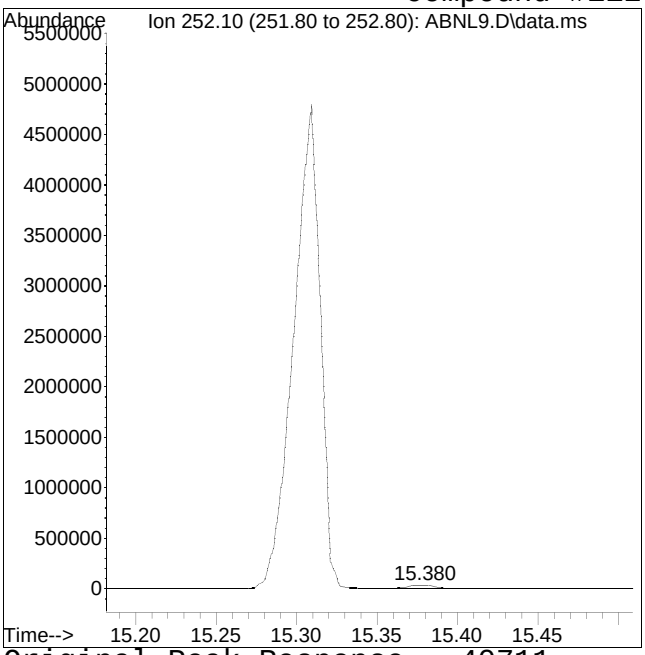


Original Peak Response = 6049795 Manual Peak Response = 5651954 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

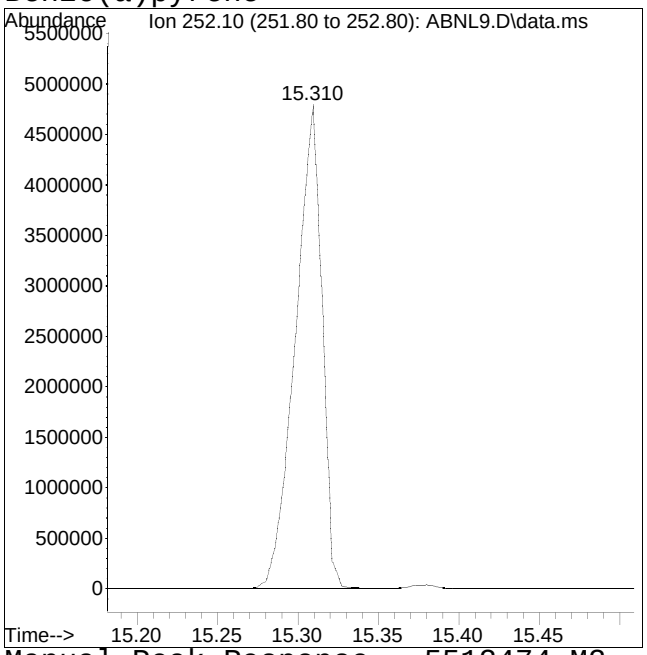
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 40711



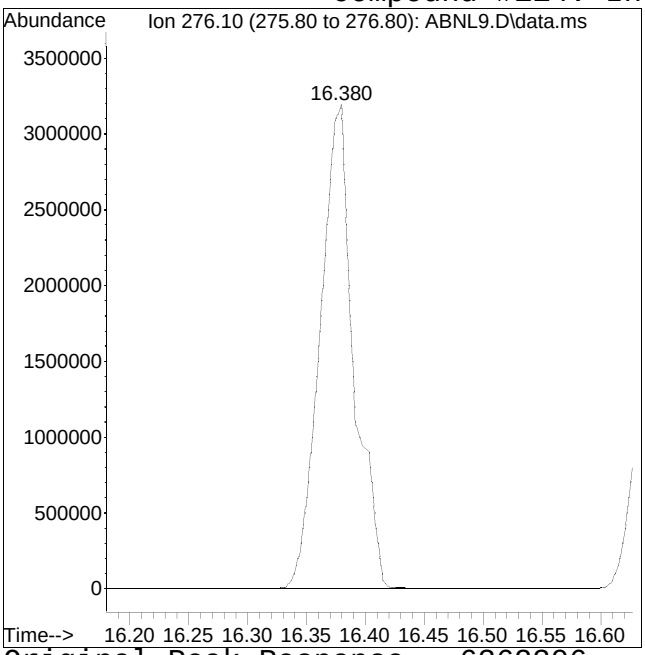
Manual Peak Response = 5512474 M2

M2 = Peak not found by automatic integration algorithm.

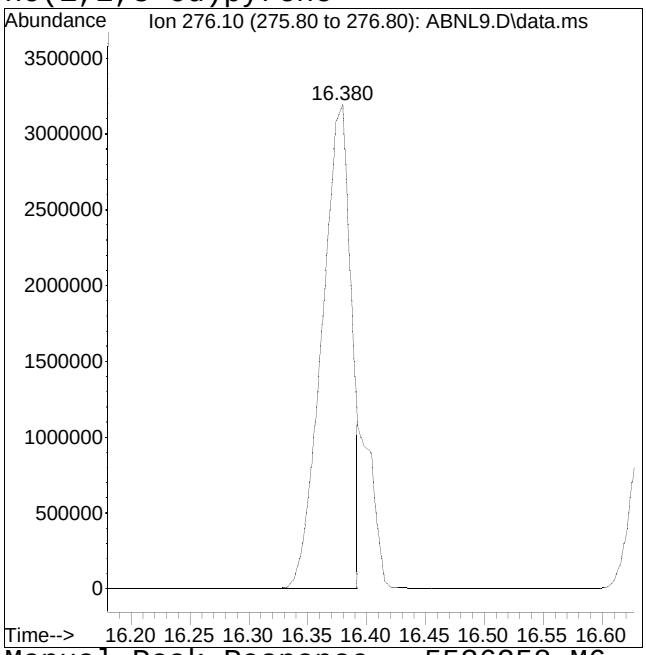
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL9.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:07 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11004 Quant Date : 10/11/2024 11:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 6362306



Manual Peak Response = 5536258 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	69692	4.000	ug/ml	# 0.00
Standard Area 1 = 69296			Recovery = 100.57%			
35) IS1_Naphthalene-d8	8.010	136	258719	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 97.78%			
63) IS1_Acenaphthene-d10	9.775	164	154939	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 92.79%			
88) IS1_Phenanthrene-d10	11.216	188	294376	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 90.17%			
104) IS1_Chrysene-d12	13.874	240	314886	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 89.00%			
113) IS1_Perylene-d12	15.345	264	342705	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 90.25%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.769	112	549260	27.268	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1363.40%#			
7) Phenol-d6	6.228	99	649095	23.539	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1176.95%#			
19) Nitrobenzene-d5	7.245	82	595158	21.104	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2110.40%#			
46) 2-Fluorobiphenyl	9.128	172	1461913	22.004	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2200.40%#			
79) 2,4,6-Tribromophenol	10.545	330	227738	23.583	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1179.15%#			
96) 4-Terphenyl-d14	12.804	244	1972266	24.917	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2491.70%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.293	74	330743	22.301	ug/ml#	67
3) Pyridine	2.328	79	525087	21.645	ug/ml#	65
5) Aniline	6.198	93	803286	22.506	ug/ml	96
6) 2-Chlorophenol	6.346	128	601267	26.797	ug/ml	91
8) Phenol	6.246	94	680744	23.798	ug/ml	95
9) Bis(2-chloroethyl)ether	6.322	93	541237	23.040	ug/ml#	85
10) 1,3-Dichlorobenzene	6.528	146	718099	26.651	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	724265	26.563	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	688287	25.951	ug/ml	97

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	468603	21.220	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.975	45	842726	22.329	ug/ml#	56
15) 2-Methylphenol	6.969	108	500029	24.269	ug/ml	98
16) Hexachloroethane	7.181	117	266748	24.587	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.122	70	409377	22.231	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.151	108	541583	24.305	ug/ml	98
20) Nitrobenzene	7.269	77	600184	20.964	ug/ml	96
21) Isophorone	7.545	82	1067020	22.188	ug/ml	99
22) 2-Nitrophenol	7.622	139	336029	27.880	ug/ml#	87
23) 2,4-Dimethylphenol	7.716	107	479645	21.153	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.810	93	685342	22.126	ug/ml	99
25) 2,4-Dichlorophenol	7.887	162	555272	25.848	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.963	180	611172	23.231	ug/ml	96
36) Naphthalene	8.034	128	1787204	24.097	ug/ml	100
37) Benzoic Acid	7.857	105	446018	22.358	ug/ml	94
38) 4-Chloroaniline	8.110	65	209528	19.161	ug/ml	74
39) Hexachlorobutadiene	8.198	225	380449	19.436	ug/ml	100
40) p-Chloro-m-cresol	8.634	107	507159	22.885	ug/ml	95
41) 2-Methylnaphthalene	8.745	142	1213431	24.549	ug/ml	97
42) 1-Methylnaphthalene	8.845	115	388324	20.688	ug/ml	97
43) Hexachlorocyclopentadiene	8.922	237	433985	19.986	ug/ml	100
44) 2,4,6-Trichlorophenol	9.039	196	454935	23.403	ug/ml	99
45) 2,4,5-Trichlorophenol	9.069	196	473916	22.767	ug/ml	100
47) 2-Chloronaphthalene	9.228	162	1234483	23.486	ug/ml	96
48) 2-Nitroaniline	9.339	138	389403	24.591	ug/ml#	82
49) 1,4-Dinitrobenzene	9.475	168	200966M3	24.114	ug/ml	
50) 1,3-Dinitrobenzene	9.551	168	215931	22.737	ug/ml#	1
51) Dimethyl phthalate	9.545	163	1415733	22.131	ug/ml#	98
52) Acenaphthylene	9.628	152	1883367	23.407	ug/ml	99
53) 2,6-Dinitrotoluene	9.586	165	317392	23.044	ug/ml#	72
54) 1,2-Dinitrobenzene	9.634	168	130396	22.203	ug/ml#	1
64) 3-Nitroaniline	9.745	138	335120	27.090	ug/ml#	90
65) Acenaphthene	9.804	154	1111714	24.900	ug/ml	92
66) 2,4-Dinitrophenol	9.845	184	233112	28.217	ug/ml#	83
67) Dibenzofuran	9.975	168	1754838	23.400	ug/ml	96
68) 2,4-Dinitrotoluene	9.981	165	438832	23.860	ug/ml	86
69) 4-Nitrophenol	9.928	65	258141	20.606	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	10.063	232	418301	23.883	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	392681	23.308	ug/ml	97
72)	Diethyl phthalate	10.239	149	1460423	24.651	ug/ml	99
73)	Fluorene	10.310	166	1380410	23.406	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.328	204	693168	22.331	ug/ml	89
75)	4-Nitroaniline	10.339	138	344590	26.755	ug/ml#	80
76)	4,6-Dinitro-o-cresol	10.375	198	290744	28.202	ug/ml#	58
77)	NDPA/DPA	10.445	169	1205904	24.658	ug/ml	99
78)	Azobenzene	10.481	77	1187171	21.197	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.798	248	431456M3	22.278	ug/ml	
81)	Hexachlorobenzene	10.851	284	480648	21.819	ug/ml#	83
82)	Pentachlorophenol	11.045	266	340151	24.313	ug/ml	99
89)	Phenanthrene	11.239	178	2104839	25.602	ug/ml	100
90)	Anthracene	11.286	178	2154475	26.357	ug/ml	100
91)	Carbazole	11.457	167	2004699	26.767	ug/ml	100
92)	Di-n-butylphthalate	11.839	149	2635226	29.957	ug/ml#	98
93)	Fluoranthene	12.398	202	2548112	25.350	ug/ml#	92
94)	Benzidine	12.551	184	1602442	29.366	ug/ml#	95
95)	Pyrene	12.616	202	2656050	25.066	ug/ml	100
97)	Butyl benzyl phthalate	13.333	149	1187650	29.334	ug/ml	87
105)	Benzo(a)anthracene	13.863	228	2736082	23.514	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.863	252	1015007	26.366	ug/ml#	97
107)	Chrysene	13.904	228	2548395	22.655	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.969	149	1820683	28.305	ug/ml#	93
109)	Di-n-octylphthalate	14.657	149	3257778	30.599	ug/ml#	72
110)	Benzo(b)fluoranthene	14.980	252	2684585	23.843	ug/ml#	94
111)	Benzo(k)fluoranthene	15.010	252	2622344	24.564	ug/ml#	94
112)	Benzo(a)pyrene	15.298	252	2491135	25.488	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.363	276	2826049M6	30.486	ug/mL	
115)	Dibenzo(a,h)anthracene	16.386	278	2574655	28.849	ug/ml#	90
116)	Benzo(ghi)perylene	16.633	276	2402943	29.091	ug/ml#	87

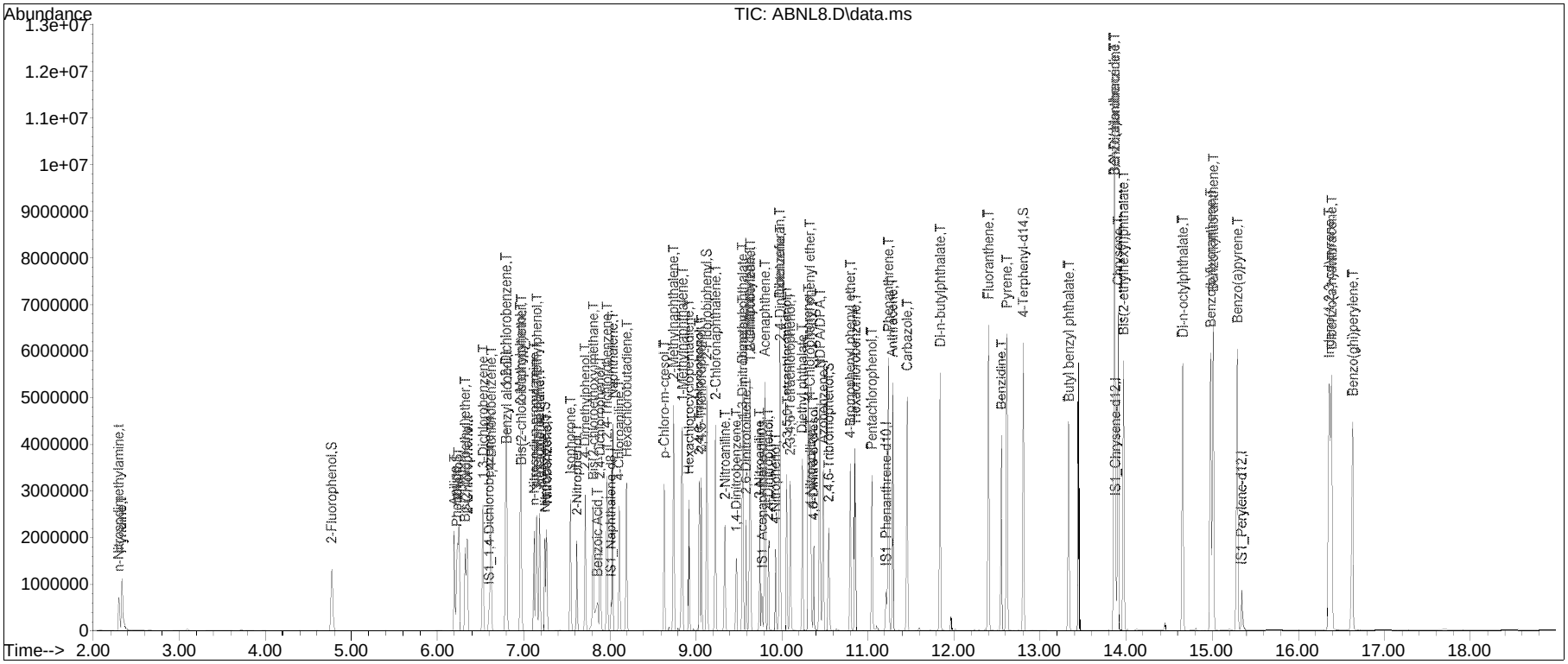
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL8.D
Acq On : 9 Oct 2024 8:30 pm
Operator : SV106:HNY
Sample : IL3,32,,ABNL25 Lot# 11005
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 11:39:19 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

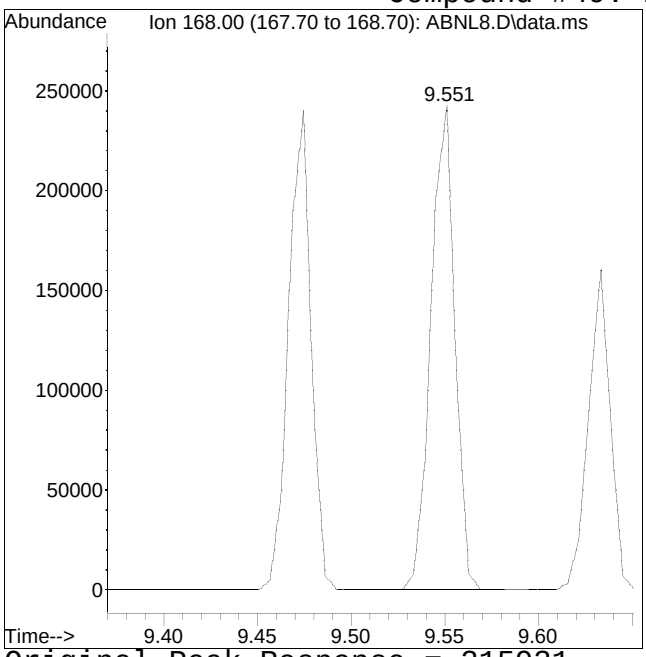
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

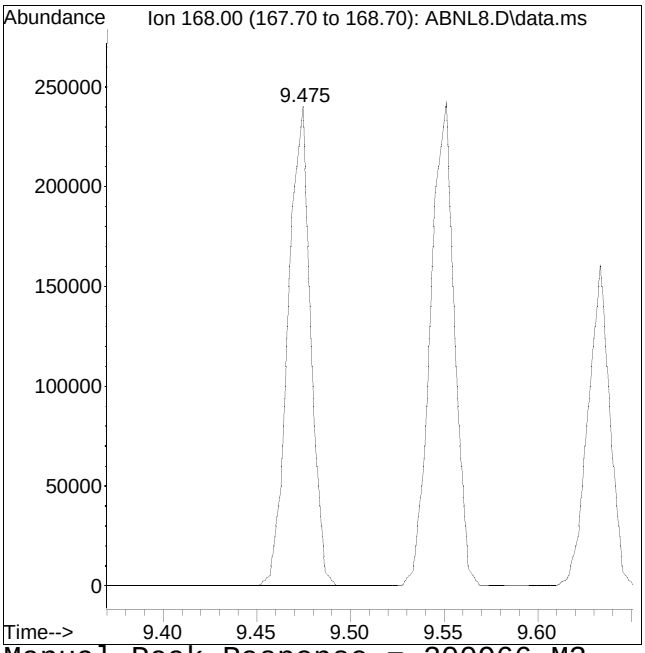


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL8.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:30 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11005 Quant Date : 10/11/2024 11:13 am

Compound #49: 1,4-Dinitrobenzene



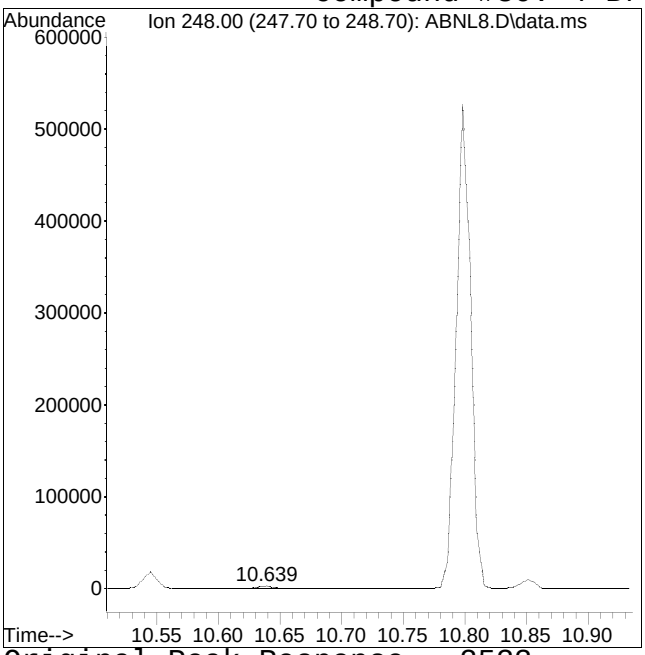


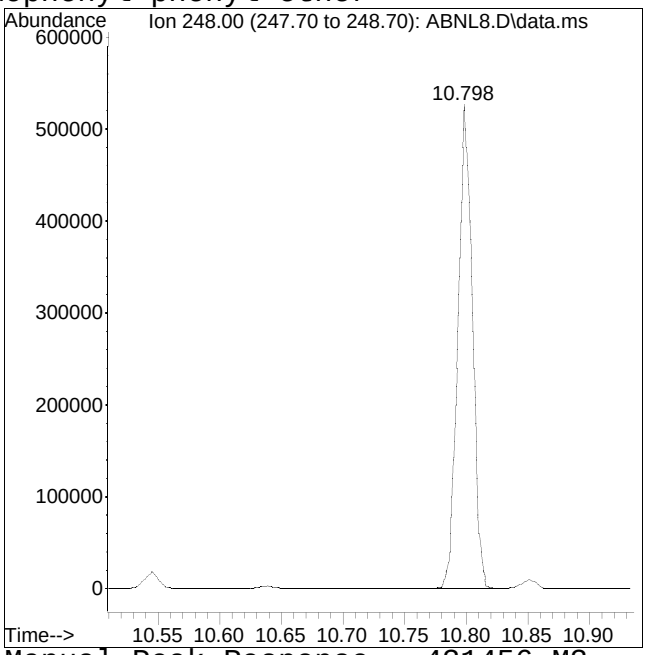
Original Peak Response = 215931 Manual Peak Response = 200966 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL8.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:30 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11005 Quant Date : 10/11/2024 11:13 am

Compound #80: 4-Bromophenyl phenyl ether





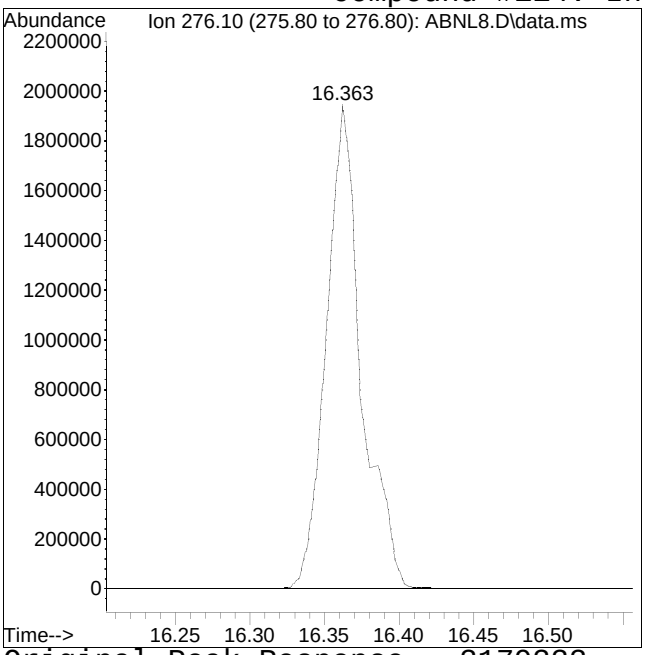
Original Peak Response = 2533 Manual Peak Response = 431456 M3

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

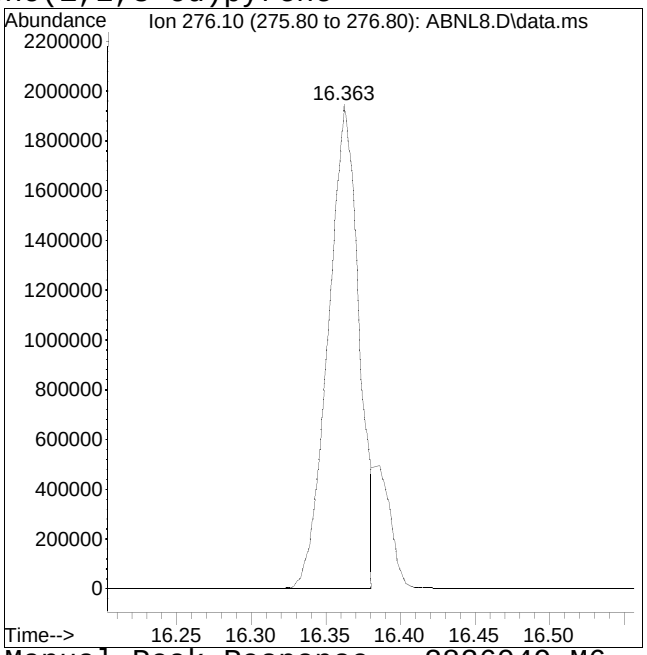
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL8.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:30 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11005 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3179333



Manual Peak Response = 2826049 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	74123	4.000	ug/ml	# 0.00
Standard Area 1 = 69296			Recovery = 106.97%			
35) IS1_Naphthalene-d8	8.010	136	279694	4.000	ug/ml	0.00
Standard Area 1 = 264583			Recovery = 105.71%			
63) IS1_Acenaphthene-d10	9.775	164	172802	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 103.49%			
88) IS1_Phenanthrene-d10	11.216	188	346318	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 106.08%			
104) IS1_Chrysene-d12	13.868	240	380782	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 107.62%			
113) IS1_Perylene-d12	15.345	264	393856	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 103.72%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	218401	10.194	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 509.70%#			
7) Phenol-d6	6.228	99	266712	9.094	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 454.70%#			
19) Nitrobenzene-d5	7.245	82	246307	8.212	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 821.20%#			
46) 2-Fluorobiphenyl	9.128	172	626231	8.719	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 871.90%#			
79) 2,4,6-Tribromophenol	10.545	330	100484	9.330	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 466.50%#			
96) 4-Terphenyl-d14	12.804	244	911314	9.786	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 978.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.305	74	134103	8.502	ug/ml#	68
3) Pyridine	2.340	79	216081	8.375	ug/ml#	66
5) Aniline	6.198	93	326188	8.593	ug/ml	97
6) 2-Chlorophenol	6.340	128	246173	10.316	ug/ml	92
8) Phenol	6.245	94	279454	9.185	ug/ml	96
9) Bis(2-chloroethyl)ether	6.322	93	225102	9.009	ug/ml	86
10) 1,3-Dichlorobenzene	6.528	146	294086	10.262	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	293845	10.133	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	283461	10.049	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	193962	8.258	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.975	45	349801	8.714	ug/ml#	57
15) 2-Methylphenol	6.963	108	203931	9.306	ug/ml	97
16) Hexachloroethane	7.181	117	108287	9.384	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.122	70	169671	8.663	ug/ml	97
18) 3-Methylphenol/4-Methy...	7.151	108	222673	9.395	ug/ml	96
20) Nitrobenzene	7.269	77	252563	8.294	ug/ml	98
21) Isophorone	7.545	82	446178	8.723	ug/ml	99
22) 2-Nitrophenol	7.622	139	133535	10.417	ug/ml	90
23) 2,4-Dimethylphenol	7.716	107	200205	8.302	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.810	93	292285	8.872	ug/ml	99
25) 2,4-Dichlorophenol	7.881	162	228319	9.993	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.963	180	255921	9.146	ug/ml	97
36) Naphthalene	8.034	128	745981	9.304	ug/ml	99
37) Benzoic Acid	7.822	105	169956	8.433	ug/ml	95
38) 4-Chloroaniline	8.110	65	87849	7.431	ug/ml	73
39) Hexachlorobutadiene	8.198	225	158039	7.468	ug/ml	100
40) p-Chloro-m-cresol	8.633	107	212079	8.852	ug/ml	93
41) 2-Methylnaphthalene	8.745	142	507496	9.497	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	161285	7.948	ug/ml	93
43) Hexachlorocyclopentadiene	8.922	237	181287	7.723	ug/ml	99
44) 2,4,6-Trichlorophenol	9.039	196	194353	9.248	ug/ml	99
45) 2,4,5-Trichlorophenol	9.069	196	200910	8.928	ug/ml	98
47) 2-Chloronaphthalene	9.228	162	533279	9.385	ug/ml	96
48) 2-Nitroaniline	9.339	138	168307	9.831	ug/ml#	82
49) 1,4-Dinitrobenzene	9.469	168	85945	9.539	ug/ml#	72
50) 1,3-Dinitrobenzene	9.545	168	95905	9.341	ug/ml#	1
51) Dimethyl phthalate	9.539	163	633492	9.160	ug/ml#	98
52) Acenaphthylene	9.628	152	813240	9.349	ug/ml	100
53) 2,6-Dinitrotoluene	9.586	165	139583	9.374	ug/ml#	73
54) 1,2-Dinitrobenzene	9.628	168	59620	9.390	ug/ml#	1
64) 3-Nitroaniline	9.739	138	145058	10.514	ug/ml#	92
65) Acenaphthene	9.804	154	475284	9.545	ug/ml	91
66) 2,4-Dinitrophenol	9.845	184	96630	10.487	ug/ml#	83
67) Dibenzofuran	9.975	168	758470	9.069	ug/ml	95
68) 2,4-Dinitrotoluene	9.975	165	189184	9.223	ug/ml	87
69) 4-Nitrophenol	9.928	65	111120	7.953	ug/ml#	79
70) 2,3,5,6-Tetrachlorophenol	10.063	232	180474	9.239	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	172491	9.180	ug/ml		97
72)	Diethyl phthalate	10.239	149	638510	9.663	ug/ml		99
73)	Fluorene	10.310	166	611701	9.300	ug/ml		95
74)	4-Chlorophenyl phenyl ...	10.328	204	306584	8.856	ug/ml		89
75)	4-Nitroaniline	10.333	138	151370	10.538	ug/ml	#	79
76)	4,6-Dinitro-o-cresol	10.369	198	123077	10.704	ug/ml	#	58
77)	NDPA/DPA	10.439	169	538785	9.878	ug/ml		99
78)	Azobenzene	10.475	77	521328	8.346	ug/ml	#	90
80)	4-Bromophenyl phenyl e...	10.798	248	194301M3	8.996	ug/ml		
81)	Hexachlorobenzene	10.851	284	212215	8.638	ug/ml	#	82
82)	Pentachlorophenol	11.045	266	147530	9.455	ug/ml		99
89)	Phenanthrene	11.239	178	949421	9.816	ug/ml		99
90)	Anthracene	11.286	178	962312	10.007	ug/ml		100
91)	Carbazole	11.451	167	895995	10.169	ug/ml		99
92)	Di-n-butylphthalate	11.839	149	1193514	11.533	ug/ml		99
93)	Fluoranthene	12.398	202	1144667	9.680	ug/ml	#	92
94)	Benzidine	12.545	184	736147	11.467	ug/ml	#	95
95)	Pyrene	12.616	202	1216186	9.756	ug/ml		99
97)	Butyl benzyl phthalate	13.327	149	534359	11.219	ug/ml		87
105)	Benzo(a)anthracene	13.863	228	1232284	8.758	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.857	252	449887	9.664	ug/ml	#	97
107)	Chrysene	13.898	228	1150295	8.457	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	854452	10.985	ug/ml	#	93
109)	Di-n-octylphthalate	14.651	149	1479451	11.491	ug/ml	#	72
110)	Benzo(b)fluoranthene	14.974	252	1282730	9.421	ug/ml	#	91
111)	Benzo(k)fluoranthene	15.004	252	1069880	8.288	ug/ml	#	92
112)	Benzo(a)pyrene	15.292	252	1088576M2	9.210	ug/ml		
114)	Indeno(1,2,3-cd)pyrene	16.357	276	1235655M6	11.598	ug/mL		
115)	Dibenzo(a,h)anthracene	16.380	278	1135928	11.075	ug/ml	#	90
116)	Benzo(ghi)perylene	16.621	276	1063003	11.198	ug/ml	#	87

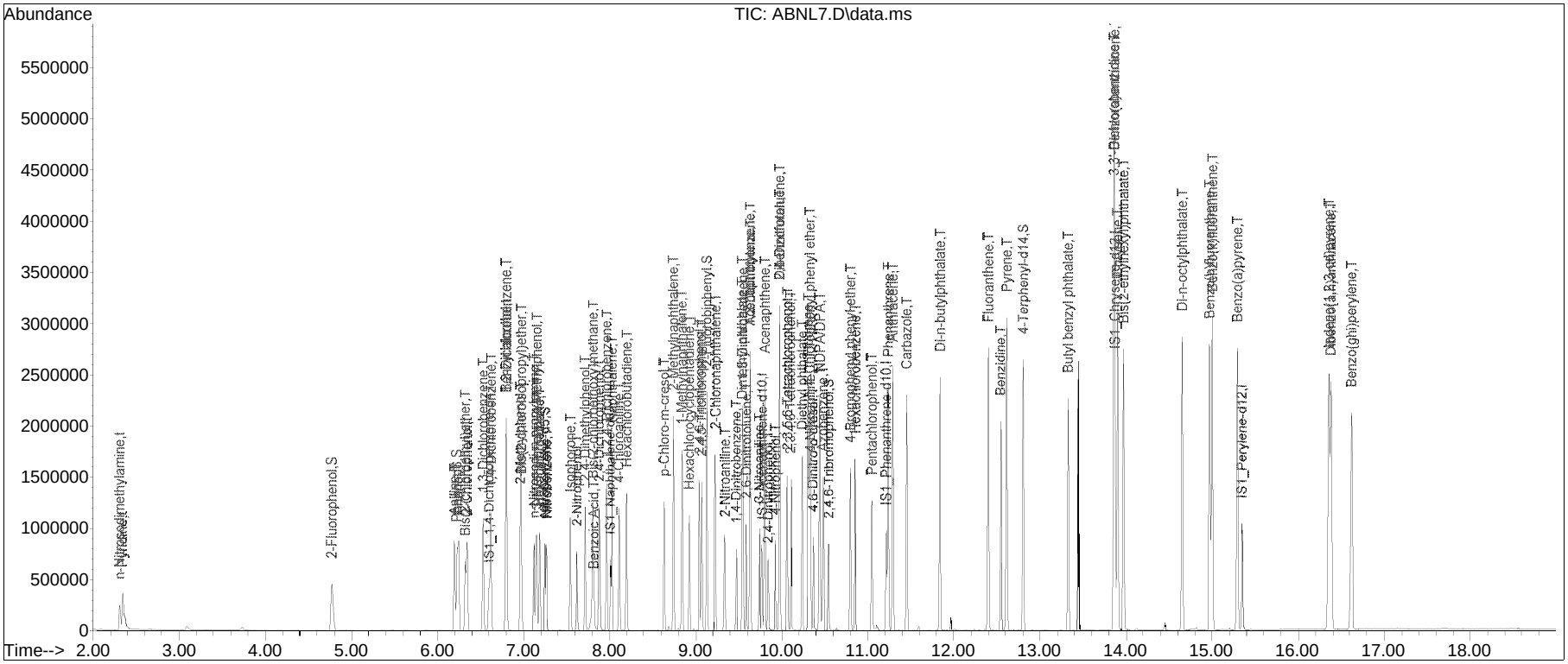
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL7.D
Acq On : 9 Oct 2024 8:54 pm
Operator : SV106:HNY
Sample : IL4,32,,ABNL10 Lot# 11006
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 11:38:05 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

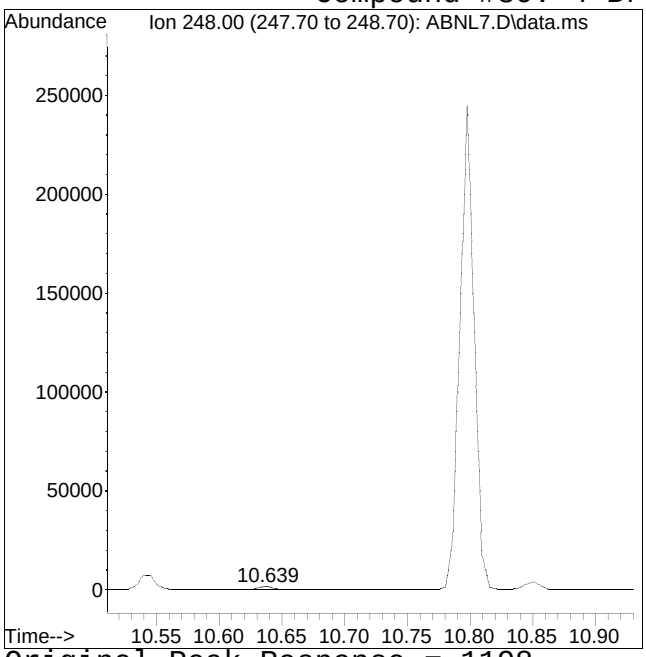
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

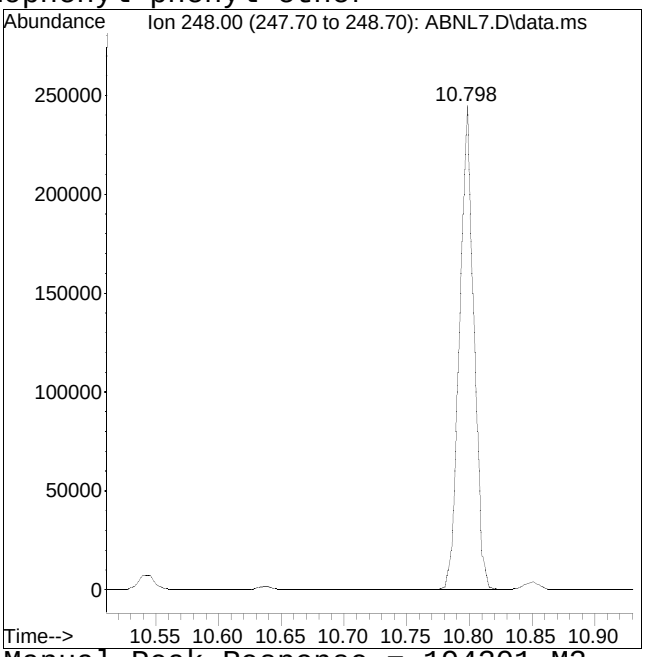


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL7.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:54 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11006 Quant Date : 10/11/2024 11:13 am

Compound #80: 4-Bromophenyl phenyl ether





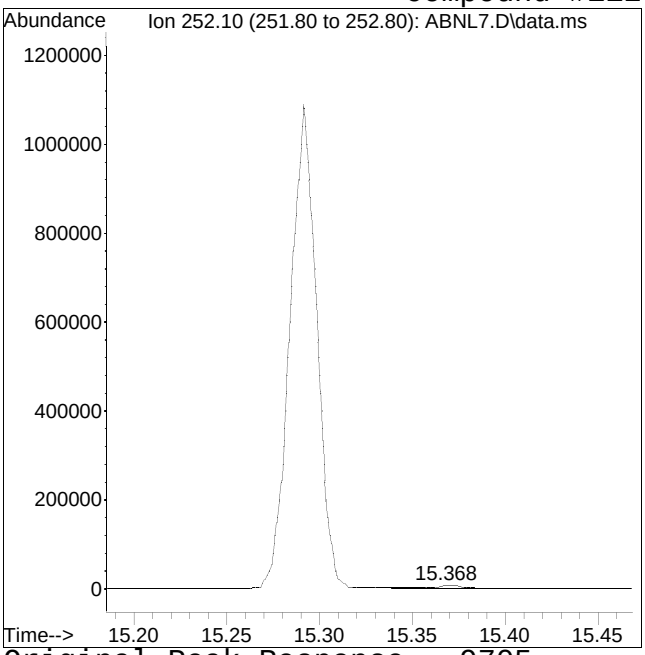
Original Peak Response = 1198 Manual Peak Response = 194301 M3

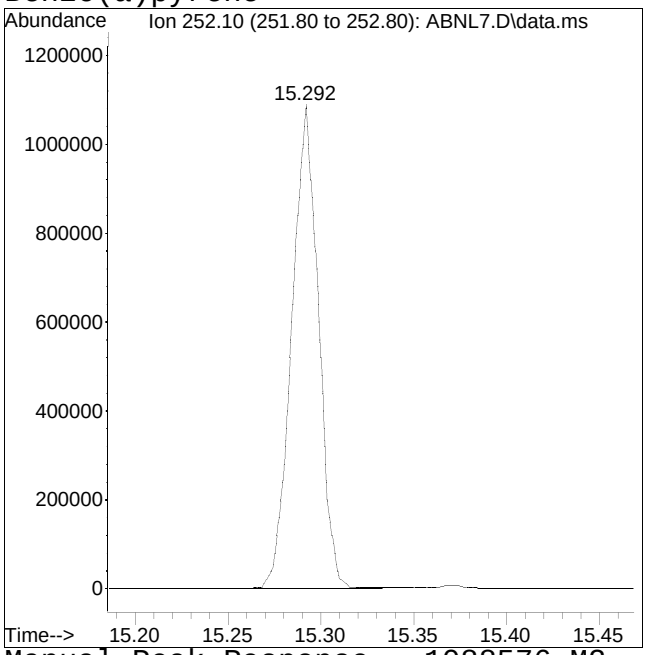
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL7.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:54 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11006 Quant Date : 10/11/2024 11:13 am

Compound #112: Benzo(a)pyrene



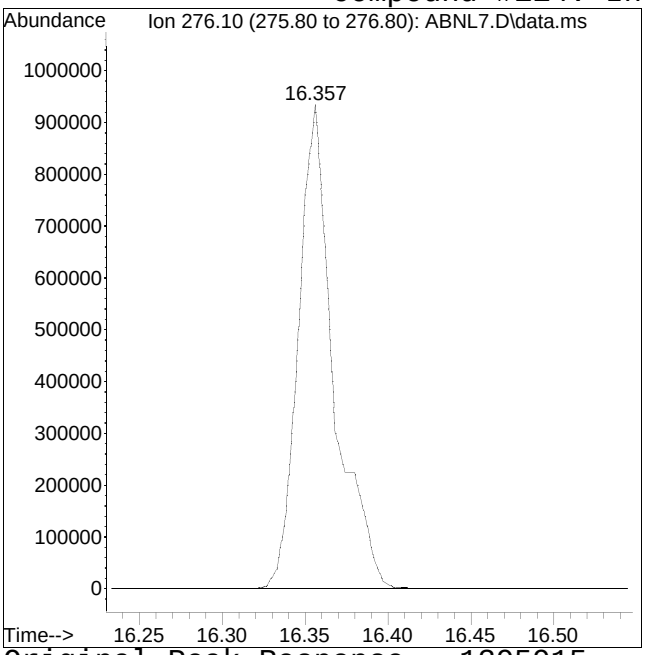


Original Peak Response = 9705 Manual Peak Response = 1088576 M2
M2 = Peak not found by automatic integration algorithm.

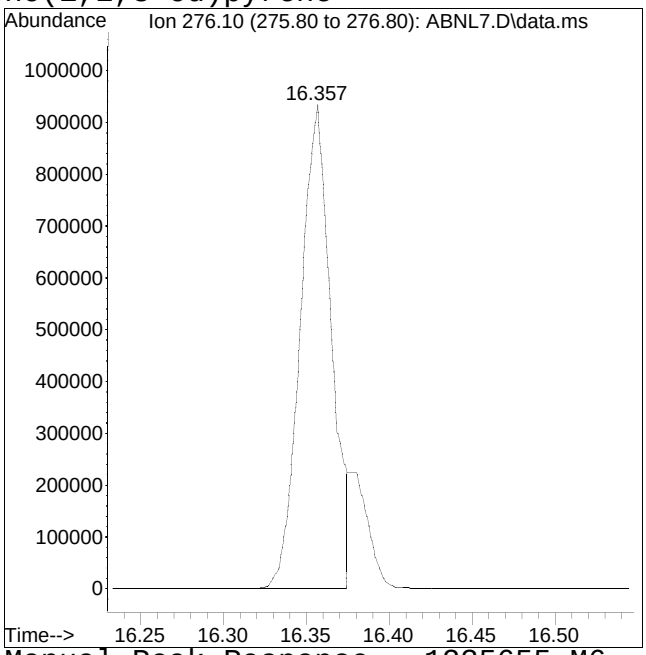
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL7.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 8:54 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11006 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1395915



Manual Peak Response = 1235655 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	69296	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 100.00%			
35) IS1_Naphthalene-d8	8.010	136	264583	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	9.769	164	166975	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	11.216	188	326455	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 100.00%			
104) IS1_Chrysene-d12	13.868	240	353807	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 100.00%			
113) IS1_Perylene-d12	15.345	264	379737	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	106392	5.312	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 265.60%#			
7) Phenol-d6	6.228	99	127394	4.646	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 232.30%#			
19) Nitrobenzene-d5	7.245	82	118933	4.241	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 424.10%#			
46) 2-Fluorobiphenyl	9.127	172	303510	4.467	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.70%#			
79) 2,4,6-Tribromophenol	10.545	330	47874	4.600	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 230.00%#			
96) 4-Terphenyl-d14	12.804	244	432325	4.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 492.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.304	74	65510	4.442	ug/ml#	67
3) Pyridine	2.340	79	104822	4.346	ug/ml#	64
5) Aniline	6.198	93	157418	4.436	ug/ml	96
6) 2-Chlorophenol	6.339	128	120089	5.383	ug/ml	92
8) Phenol	6.245	94	135949	4.780	ug/ml	96
9) Bis(2-chloroethyl)ether	6.322	93	111711	4.783	ug/ml	87
10) 1,3-Dichlorobenzene	6.528	146	141682	5.288	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	143120	5.279	ug/ml	97
12) 1,2-Dichlorobenzene	6.798	146	139337	5.284	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	92144	4.196	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.975	45	170670	4.548	ug/ml#	58
15) 2-Methylphenol	6.963	108	98765	4.821	ug/ml	99
16) Hexachloroethane	7.181	117	52022	4.822	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.122	70	83145	4.541	ug/ml	95
18) 3-Methylphenol/4-Methy...	7.145	108	108248	4.886	ug/ml	98
20) Nitrobenzene	7.269	77	119875	4.211	ug/ml	97
21) Isophorone	7.539	82	214897	4.494	ug/ml	99
22) 2-Nitrophenol	7.622	139	65108	5.433	ug/ml#	87
23) 2,4-Dimethylphenol	7.716	107	97372	4.319	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.810	93	142321	4.621	ug/ml	98
25) 2,4-Dichlorophenol	7.880	162	112858	5.284	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.963	180	122241	4.673	ug/ml	96
36) Naphthalene	8.033	128	360278	4.750	ug/ml	100
37) Benzoic Acid	7.798	105	70508	3.951	ug/ml	92
38) 4-Chloroaniline	8.110	65	42744	3.822	ug/ml	75
39) Hexachlorobutadiene	8.198	225	79068	3.950	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	100818	4.448	ug/ml	95
41) 2-Methylnaphthalene	8.745	142	247048	4.887	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	78250	4.076	ug/ml	92
43) Hexachlorocyclopentadiene	8.922	237	86254	3.884	ug/ml	99
44) 2,4,6-Trichlorophenol	9.039	196	94100	4.733	ug/ml	97
45) 2,4,5-Trichlorophenol	9.069	196	95342	4.479	ug/ml	99
47) 2-Chloronaphthalene	9.222	162	254190	4.729	ug/ml	95
48) 2-Nitroaniline	9.333	138	77370	4.778	ug/ml#	83
49) 1,4-Dinitrobenzene	9.469	168	40269	4.725	ug/ml#	73
50) 1,3-Dinitrobenzene	9.545	168	44940	4.627	ug/ml#	1
51) Dimethyl phthalate	9.539	163	311840	4.767	ug/ml#	99
52) Acenaphthylene	9.627	152	389169	4.730	ug/ml	99
53) 2,6-Dinitrotoluene	9.580	165	67434	4.787	ug/ml#	72
54) 1,2-Dinitrobenzene	9.627	168	28290	4.710	ug/ml#	1
64) 3-Nitroaniline	9.739	138	69790	5.235	ug/ml#	92
65) Acenaphthene	9.804	154	230981	4.800	ug/ml	92
66) 2,4-Dinitrophenol	9.839	184	41274	4.636	ug/ml#	85
67) Dibenzofuran	9.974	168	368723	4.562	ug/ml	95
68) 2,4-Dinitrotoluene	9.974	165	91370	4.610	ug/ml	88
69) 4-Nitrophenol	9.922	65	53228	3.943	ug/ml#	84
70) 2,3,5,6-Tetrachlorophenol	10.063	232	84691	4.487	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	83438	4.596	ug/ml	98
72)	Diethyl phthalate	10.233	149	309080	4.841	ug/ml	99
73)	Fluorene	10.310	166	297535	4.681	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.327	204	150570	4.501	ug/ml	89
75)	4-Nitroaniline	10.333	138	69338	4.996	ug/ml#	80
76)	4,6-Dinitro-o-cresol	10.369	198	54901	4.941	ug/ml#	60
77)	NDPA/DPA	10.439	169	262130	4.974	ug/ml	99
78)	Azobenzene	10.474	77	258347	4.280	ug/ml#	92
80)	4-Bromophenyl phenyl e...	10.798	248	94725	4.539	ug/ml#	83
81)	Hexachlorobenzene	10.851	284	103176	4.346	ug/ml#	82
82)	Pentachlorophenol	11.045	266	67884	4.502	ug/ml	98
89)	Phenanthrene	11.233	178	458834	5.032	ug/ml	100
90)	Anthracene	11.286	178	455499	5.025	ug/ml	99
91)	Carbazole	11.451	167	426360	5.133	ug/ml	99
92)	Di-n-butylphthalate	11.839	149	551825	5.657	ug/ml	99
93)	Fluoranthene	12.392	202	549789	4.932	ug/ml#	93
94)	Benzidine	12.545	184	343170	5.671	ug/ml#	95
95)	Pyrene	12.615	202	575183	4.895	ug/ml	100
97)	Butyl benzyl phthalate	13.327	149	244971	5.456	ug/ml	86
105)	Benzo(a)anthracene	13.857	228	581936	4.451	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.857	252	207146	4.789	ug/ml#	96
107)	Chrysene	13.898	228	557157	4.408	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	396173	5.481	ug/ml#	93
109)	Di-n-octylphthalate	14.651	149	665863	5.566	ug/ml#	72
110)	Benzo(b)fluoranthene	14.974	252	568512	4.494	ug/ml#	95
111)	Benzo(k)fluoranthene	14.998	252	555881	4.634	ug/ml#	94
112)	Benzo(a)pyrene	15.292	252	512962	4.671	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.351	276	574632M6	5.594	ug/mL	
115)	Dibenzo(a,h)anthracene	16.374	278	551268	5.574	ug/ml#	89
116)	Benzo(ghi)perylene	16.621	276	515451	5.632	ug/ml#	87

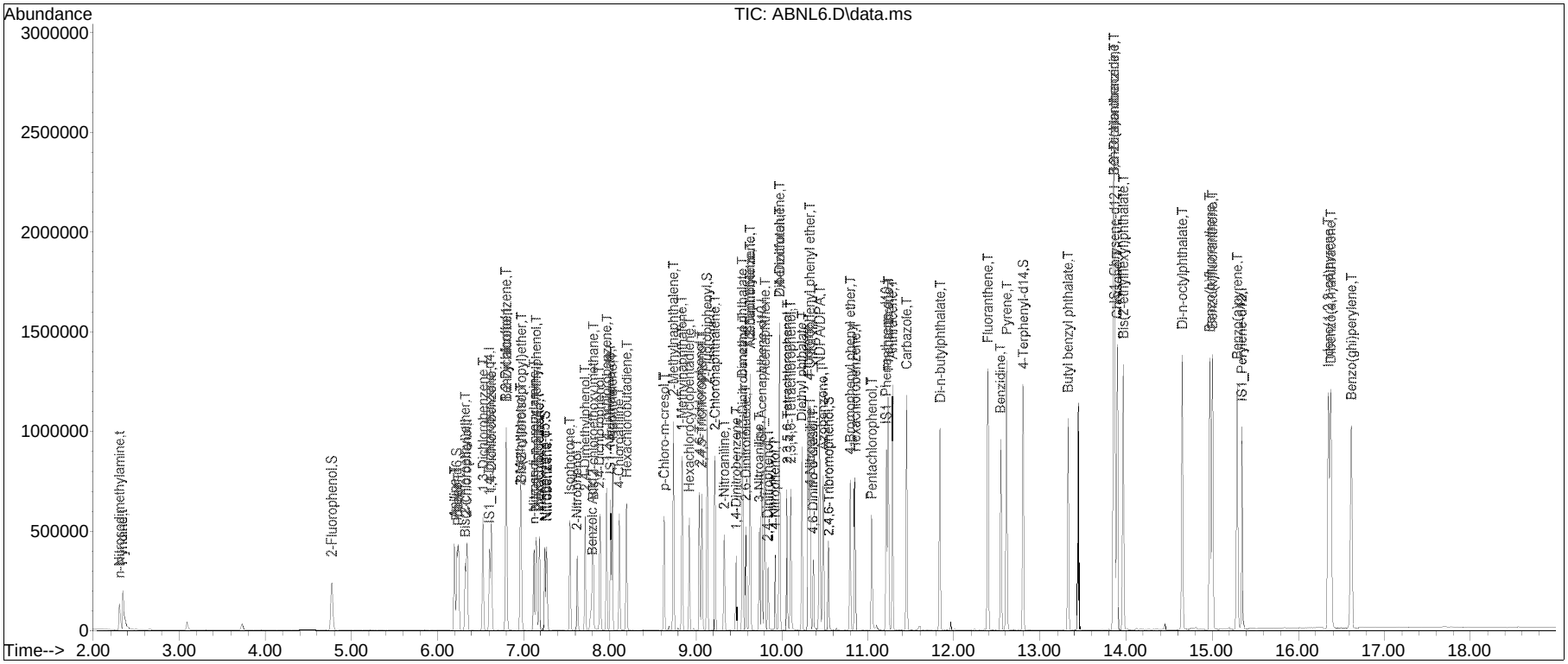
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL6.D
Acq On : 9 Oct 2024 9:18 pm
Operator : SV106:HNY
Sample : IL5,32,,ABNL5 Lot# 11007
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 11:36:50 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

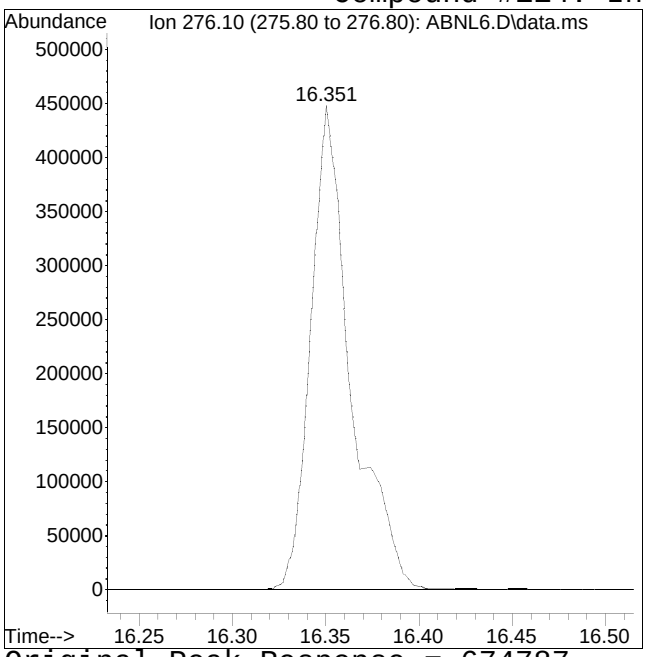
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



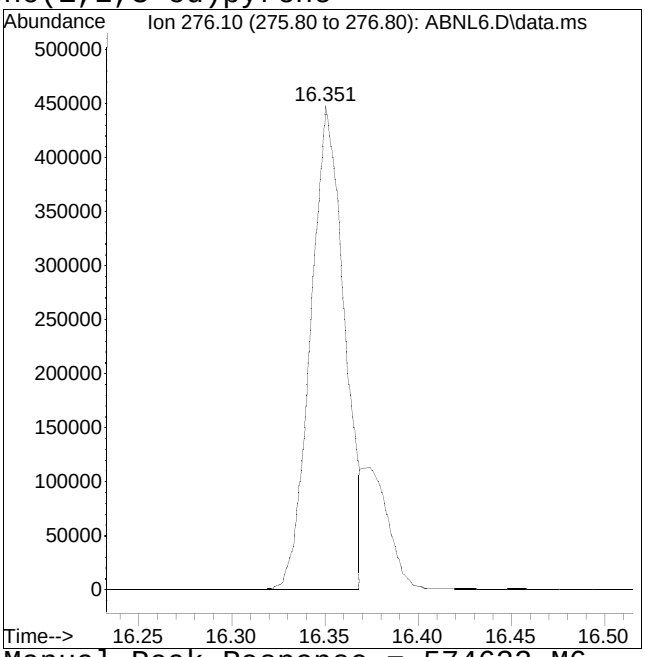
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL6.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 9:18 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11007 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 674787



Manual Peak Response = 574632 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	70308	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 101.46%			
35) IS1_Naphthalene-d8	8.010	136	261601	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 98.87%			
63) IS1_Acenaphthene-d10	9.769	164	159180	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 95.33%			
88) IS1_Phenanthrene-d10	11.216	188	298592	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 91.46%			
104) IS1_Chrysene-d12	13.868	240	303536	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 85.79%			
113) IS1_Perylene-d12	15.345	264	322402	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 84.90%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	49767	2.449	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 122.45%#			
7) Phenol-d6	6.228	99	59577	2.142	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 107.10%			
19) Nitrobenzene-d5	7.245	82	53025	1.864	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 186.40%#			
46) 2-Fluorobiphenyl	9.127	172	132809	1.977	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 197.70%#			
79) 2,4,6-Tribromophenol	10.539	330	19676	1.983	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 99.15%			
96) 4-Terphenyl-d14	12.798	244	178058	2.218	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 221.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.304	74	31362	2.096	ug/ml#	66
3) Pyridine	2.346	79	51270	2.095	ug/ml#	65
5) Aniline	6.198	93	73427	2.039	ug/ml	95
6) 2-Chlorophenol	6.339	128	55505	2.452	ug/ml	91
8) Phenol	6.239	94	63157	2.189	ug/ml	96
9) Bis(2-chloroethyl)ether	6.322	93	50835	2.145	ug/ml	86
10) 1,3-Dichlorobenzene	6.528	146	68336	2.514	ug/ml	96
11) 1,4-Dichlorobenzene	6.622	146	67965	2.471	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	65663	2.454	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	40933	1.837	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.975	45	79423	2.086	ug/ml#	58
15) 2-Methylphenol	6.963	108	45021	2.166	ug/ml	98
16) Hexachloroethane	7.181	117	24560	2.244	ug/ml#	57
17) n-Nitrosodi-n-propylamine	7.122	70	36102	1.943	ug/ml	95
18) 3-Methylphenol/4-Methy...	7.145	108	49194	2.188	ug/ml	99
20) Nitrobenzene	7.269	77	54168	1.875	ug/ml	98
21) Isophorone	7.545	82	93853	1.935	ug/ml	99
22) 2-Nitrophenol	7.622	139	28303	2.328	ug/ml	89
23) 2,4-Dimethylphenol	7.716	107	44311	1.937	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.810	93	63410	2.029	ug/ml	99
25) 2,4-Dichlorophenol	7.880	162	50081	2.311	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.963	180	57841	2.179	ug/ml	97
36) Naphthalene	8.033	128	165019	2.200	ug/ml	99
37) Benzoic Acid	7.786	105	25804	1.703	ug/ml	95
38) 4-Chloroaniline	8.110	65	18647	1.686	ug/ml#	71
39) Hexachlorobutadiene	8.198	225	35778	1.808	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	43135	1.925	ug/ml	96
41) 2-Methylnaphthalene	8.745	142	109920	2.199	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	34523	1.819	ug/ml	92
43) Hexachlorocyclopentadiene	8.922	237	38961	1.774	ug/ml	100
44) 2,4,6-Trichlorophenol	9.039	196	39763	2.023	ug/ml	97
45) 2,4,5-Trichlorophenol	9.069	196	42671	2.027	ug/ml	94
47) 2-Chloronaphthalene	9.222	162	112952	2.125	ug/ml	95
48) 2-Nitroaniline	9.333	138	30554	1.908	ug/ml	86
49) 1,4-Dinitrobenzene	9.469	168	16574M3	1.967	ug/ml	
50) 1,3-Dinitrobenzene	9.545	168	17671	1.840	ug/ml#	1
51) Dimethyl phthalate	9.539	163	133276	2.060	ug/ml#	99
52) Acenaphthylene	9.627	152	168894	2.076	ug/ml	100
53) 2,6-Dinitrotoluene	9.580	165	27352	1.964	ug/ml#	76
54) 1,2-Dinitrobenzene	9.622	168	11678	1.967	ug/ml#	1
64) 3-Nitroaniline	9.739	138	29627	2.331	ug/ml	89
65) Acenaphthene	9.804	154	99535	2.170	ug/ml	92
66) 2,4-Dinitrophenol	9.839	184	14006	1.650	ug/ml	90
67) Dibenzofuran	9.974	168	161528	2.097	ug/ml	97
68) 2,4-Dinitrotoluene	9.974	165	36737	1.944	ug/ml	93
69) 4-Nitrophenol	9.922	65	21637	1.681	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	10.063	232	35480	1.972	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	34361	1.985	ug/ml	97
72)	Diethyl phthalate	10.233	149	135002	2.218	ug/ml	100
73)	Fluorene	10.304	166	126199	2.083	ug/ml	96
74)	4-Chlorophenyl phenyl ...	10.327	204	62859	1.971	ug/ml	91
75)	4-Nitroaniline	10.327	138	30097	2.275	ug/ml#	81
76)	4,6-Dinitro-o-cresol	10.369	198	21077	1.990	ug/ml#	61
77)	NDPA/DPA	10.439	169	110592	2.201	ug/ml	98
78)	Azobenzene	10.474	77	108731	1.890	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.798	248	39090	1.965	ug/ml#	83
81)	Hexachlorobenzene	10.851	284	44860	1.982	ug/ml#	83
82)	Pentachlorophenol	11.045	266	26444	1.840	ug/ml	97
89)	Phenanthrene	11.233	178	195650	2.346	ug/ml	99
90)	Anthracene	11.286	178	195835	2.362	ug/ml	99
91)	Carbazole	11.451	167	179581	2.364	ug/ml	99
92)	Di-n-butylphthalate	11.839	149	214953	2.409	ug/ml	99
93)	Fluoranthene	12.398	202	226775	2.224	ug/ml#	92
94)	Benzidine	12.545	184	129726	2.344	ug/ml#	95
95)	Pyrene	12.615	202	240698	2.239	ug/ml	99
97)	Butyl benzyl phthalate	13.327	149	90156	2.195	ug/ml	86
105)	Benzo(a)anthracene	13.857	228	234867	2.094	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.857	252	80905	2.180	ug/ml#	97
107)	Chrysene	13.892	228	227893	2.102	ug/ml	100
108)	Bis(2-ethylhexyl)phtha...	13.968	149	145115	2.340	ug/ml#	92
109)	Di-n-octylphthalate	14.651	149	232445	2.265	ug/ml#	74
110)	Benzo(b)fluoranthene	14.974	252	236696	2.181	ug/ml#	93
111)	Benzo(k)fluoranthene	14.998	252	212686	2.067	ug/ml#	95
112)	Benzo(a)pyrene	15.286	252	205590	2.182	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.351	276	228073M6	2.615	ug/mL	
115)	Dibenzo(a,h)anthracene	16.374	278	218574	2.603	ug/ml#	89
116)	Benzo(ghi)perylene	16.615	276	205979	2.651	ug/ml#	87

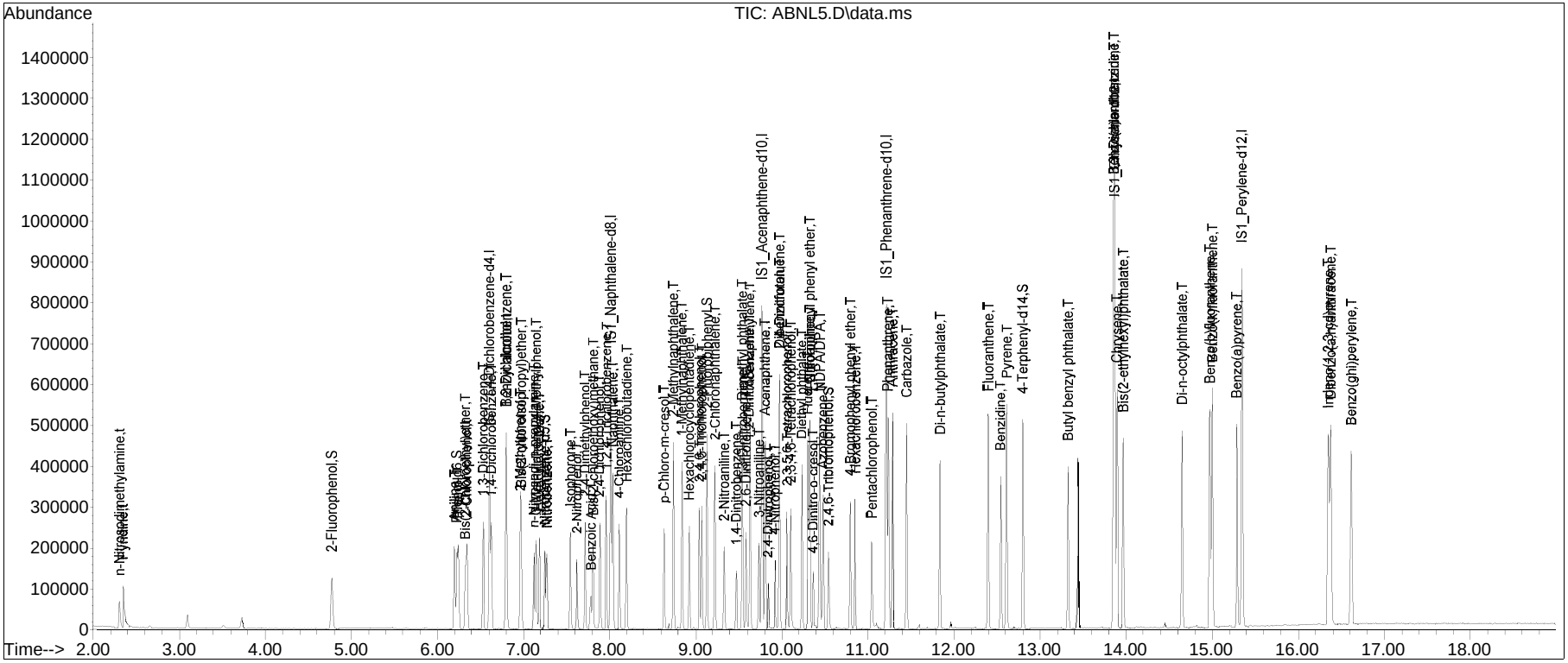
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL5.D
Acq On : 9 Oct 2024 9:41 pm
Operator : SV106:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11008
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 11:34:43 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

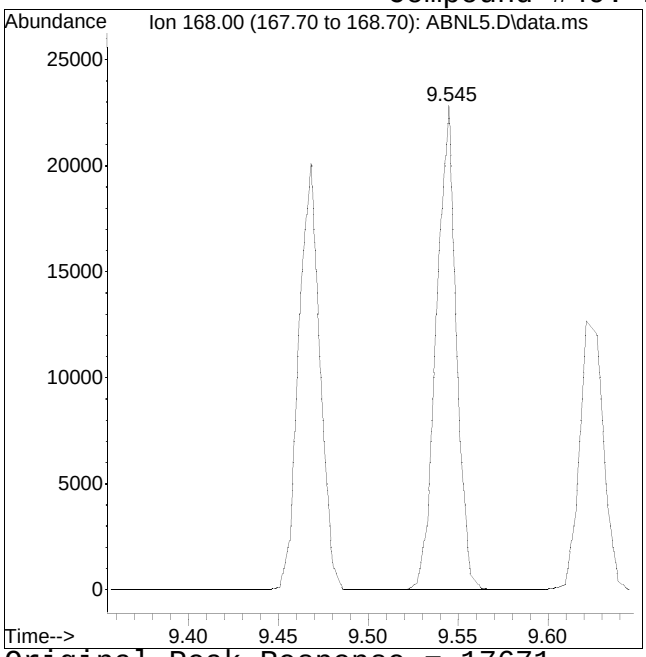
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

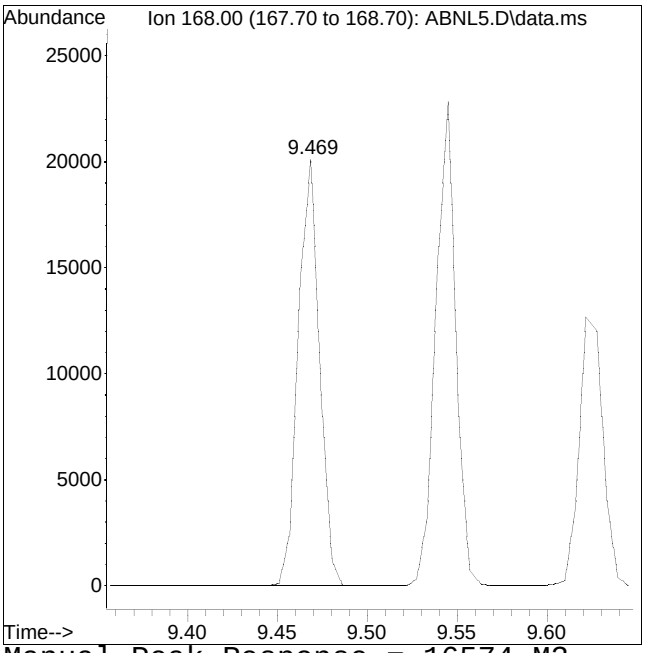


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL5.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 9:41 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11008Quant Date : 10/11/2024 11:13 am

Compound #49: 1,4-Dinitrobenzene





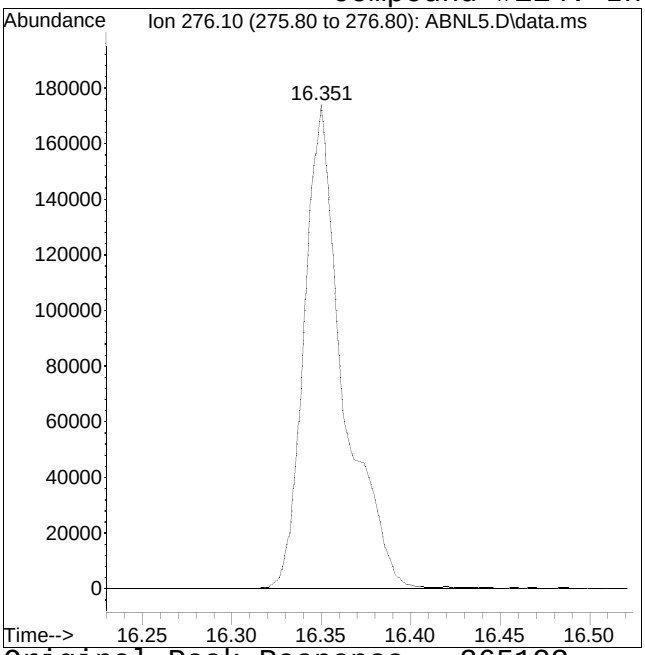
Original Peak Response = 17671 Manual Peak Response = 16574 M3

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

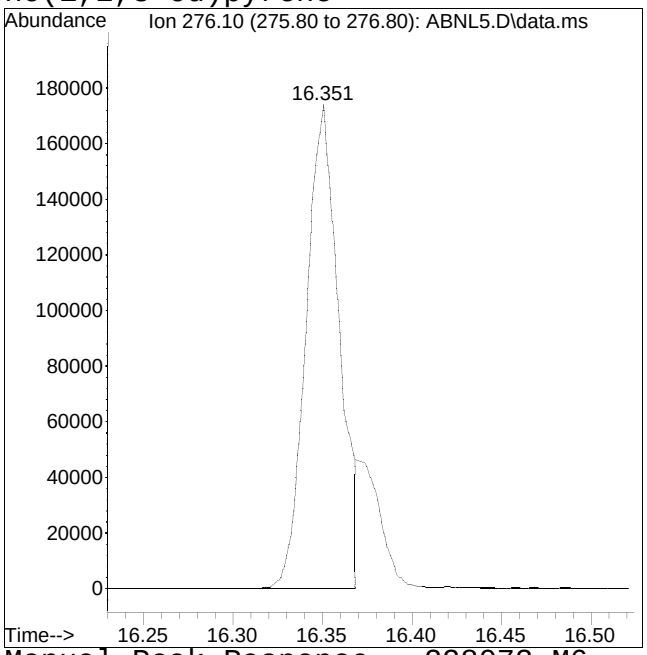
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL5.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 9:41 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11008Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 265123



Manual Peak Response = 228073 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	71339	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 102.95%			
35) IS1_Naphthalene-d8	8.010	136	266497	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 100.72%			
63) IS1_Acenaphthene-d10	9.769	164	156133	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 93.51%			
88) IS1_Phenanthrene-d10	11.216	188	309183	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 94.71%			
104) IS1_Chrysene-d12	13.868	240	327099	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 92.45%			
113) IS1_Perylene-d12	15.345	264	347213	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 91.44%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	21159	1.026	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 51.30%			
7) Phenol-d6	6.228	99	25905	0.918	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.90%			
19) Nitrobenzene-d5	7.245	82	22769	0.789	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 78.90%			
46) 2-Fluorobiphenyl	9.127	172	59958	0.876	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 87.60%			
79) 2,4,6-Tribromophenol	10.545	330	8795	0.904	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.20%			
96) 4-Terphenyl-d14	12.804	244	80600	0.969	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 96.90%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.310	74	13176	0.868	ug/ml#	74
3) Pyridine	2.363	79	20777	0.837	ug/ml#	64
5) Aniline	6.198	93	32716	0.895	ug/ml	94
6) 2-Chlorophenol	6.345	128	24128	1.051	ug/ml	90
8) Phenol	6.245	94	27320	0.933	ug/ml	96
9) Bis(2-chloroethyl)ether	6.328	93	21489	0.894	ug/ml#	79
10) 1,3-Dichlorobenzene	6.528	146	29330	1.063	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	31063	1.113	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	28092	1.035	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	17852	0.790	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.975	45	35860	0.928	ug/ml#	58
15) 2-Methylphenol	6.963	108	19349	0.917	ug/ml	96
16) Hexachloroethane	7.181	117	10924	0.984	ug/ml#	66
17) n-Nitrosodi-n-propylamine	7.122	70	16244	0.862	ug/ml	97
18) 3-Methylphenol/4-Methy...	7.145	108	21188	0.929	ug/ml	98
20) Nitrobenzene	7.269	77	23506	0.802	ug/ml	95
21) Isophorone	7.545	82	41378	0.841	ug/ml	99
22) 2-Nitrophenol	7.622	139	12144	0.984	ug/ml	90
23) 2,4-Dimethylphenol	7.716	107	19420	0.837	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.810	93	28891	0.911	ug/ml	97
25) 2,4-Dichlorophenol	7.881	162	21411	0.974	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.963	180	25382	0.942	ug/ml	98
36) Naphthalene	8.033	128	73731	0.965	ug/ml	99
37) Benzoic Acid	7.775	105	7545	0.752	ug/ml#	89
38) 4-Chloroaniline	8.110	65	8758	0.778	ug/ml	85
39) Hexachlorobutadiene	8.198	225	16407	0.814	ug/ml	98
40) p-Chloro-m-cresol	8.633	107	19065	0.835	ug/ml	97
41) 2-Methylnaphthalene	8.745	142	48095	0.945	ug/ml	94
42) 1-Methylnaphthalene	8.839	115	15739	0.814	ug/ml	94
43) Hexachlorocyclopentadiene	8.922	237	17168	0.768	ug/ml	96
44) 2,4,6-Trichlorophenol	9.039	196	17212	0.860	ug/ml	97
45) 2,4,5-Trichlorophenol	9.069	196	18514	0.863	ug/ml	98
47) 2-Chloronaphthalene	9.222	162	51319	0.948	ug/ml	97
48) 2-Nitroaniline	9.333	138	13384	0.821	ug/ml	87
49) 1,4-Dinitrobenzene	9.469	168	6701	0.781	ug/ml	89
50) 1,3-Dinitrobenzene	9.545	168	8335	0.852	ug/ml#	1
51) Dimethyl phthalate	9.539	163	59446	0.902	ug/ml#	99
52) Acenaphthylene	9.627	152	74788	0.902	ug/ml	99
53) 2,6-Dinitrotoluene	9.580	165	12135	0.855	ug/ml#	73
54) 1,2-Dinitrobenzene	9.627	168	5451	0.901	ug/ml#	1
64) 3-Nitroaniline	9.739	138	12094	0.970	ug/ml#	98
65) Acenaphthene	9.804	154	45406	1.009	ug/ml	91
66) 2,4-Dinitrophenol	9.845	184	5396	0.648	ug/ml#	86
67) Dibenzofuran	9.975	168	73937	0.978	ug/ml	94
68) 2,4-Dinitrotoluene	9.975	165	16078	0.867	ug/ml	92
69) 4-Nitrophenol	9.922	65	9501	0.753	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	10.063	232	14729	0.835	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	15221	0.897	ug/ml	98
72)	Diethyl phthalate	10.233	149	57465	0.963	ug/ml	97
73)	Fluorene	10.310	166	57874	0.974	ug/ml	96
74)	4-Chlorophenyl phenyl ...	10.327	204	28945	0.925	ug/ml	89
75)	4-Nitroaniline	10.327	138	13152	1.013	ug/ml	85
76)	4,6-Dinitro-o-cresol	10.369	198	7935	0.764	ug/ml#	67
77)	NDPA/DPA	10.439	169	49470	1.004	ug/ml	99
78)	Azobenzene	10.474	77	48116	0.853	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.798	248	18237	0.934	ug/ml#	83
81)	Hexachlorobenzene	10.851	284	19927	0.898	ug/ml#	81
82)	Pentachlorophenol	11.045	266	10299	0.731	ug/ml	97
89)	Phenanthrene	11.233	178	89296	1.034	ug/ml	99
90)	Anthracene	11.286	178	87718	1.022	ug/ml	99
91)	Carbazole	11.451	167	79979	1.017	ug/ml	99
92)	Di-n-butylphthalate	11.839	149	95333	1.032	ug/ml	98
93)	Fluoranthene	12.398	202	100934	0.956	ug/ml#	92
94)	Benzidine	12.545	184	55776	0.973	ug/ml#	96
95)	Pyrene	12.616	202	108332	0.973	ug/ml	99
97)	Butyl benzyl phthalate	13.327	149	38502	0.905	ug/ml	88
105)	Benzo(a)anthracene	13.857	228	106990	0.885	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.857	252	35971	0.900	ug/ml	97
107)	Chrysene	13.898	228	107915	0.924	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.968	149	62019	0.928	ug/ml#	91
109)	Di-n-octylphthalate	14.651	149	94640	0.856	ug/ml#	74
110)	Benzo(b)fluoranthene	14.974	252	109491	0.936	ug/ml#	95
111)	Benzo(k)fluoranthene	14.998	252	98758	0.891	ug/ml#	93
112)	Benzo(a)pyrene	15.292	252	93110	0.917	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.351	276	100815M6	1.073	ug/mL	
115)	Dibenzo(a,h)anthracene	16.374	278	98550	1.090	ug/ml#	90
116)	Benzo(ghi)perylene	16.615	276	94121	1.125	ug/ml#	89

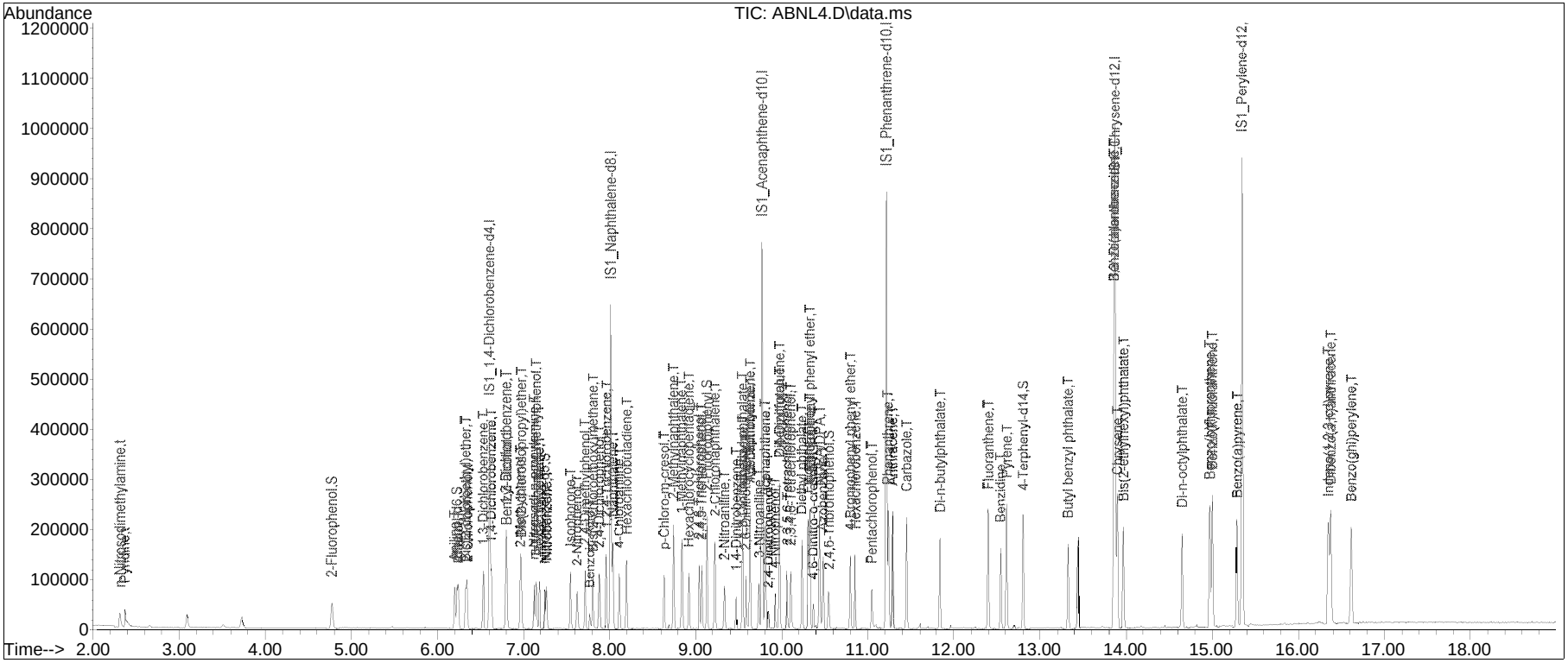
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL4.D
Acq On : 9 Oct 2024 10:05 pm
Operator : SV106:HNY
Sample : IL7,32,,ABNL1 Lot# 11009
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 11:32:09 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

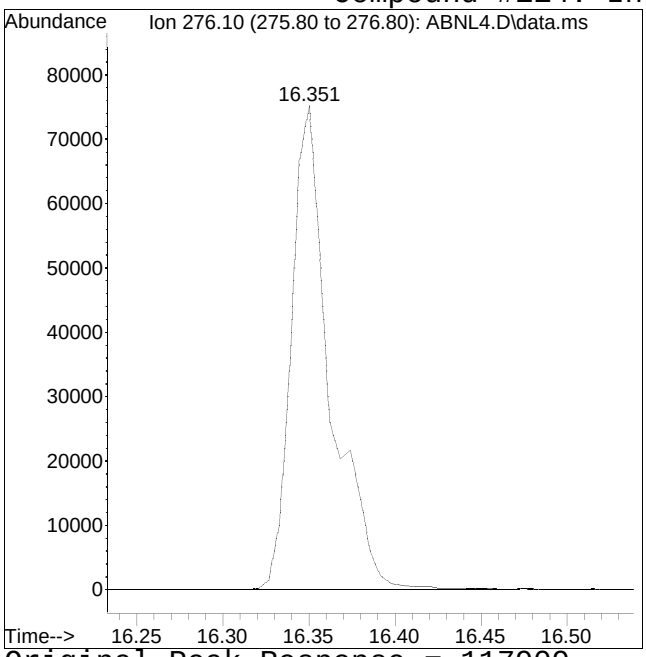
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



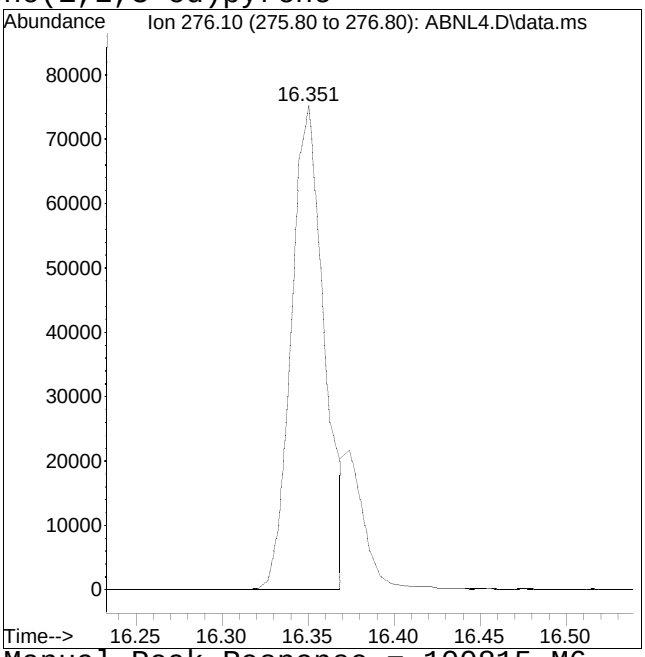
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL4.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:05 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 11009 Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 117909



Manual Peak Response = 100815 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	66051	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 95.32%			
35) IS1_Naphthalene-d8	8.010	136	256751	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 97.04%			
63) IS1_Acenaphthene-d10	9.769	164	160411	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 96.07%			
88) IS1_Phenanthrene-d10	11.216	188	323665	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 99.15%			
104) IS1_Chrysene-d12	13.868	240	338113	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 95.56%			
113) IS1_Perylene-d12	15.345	264	355610	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 93.65%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	9693	0.508	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.40%			
7) Phenol-d6	6.228	99	11340	0.434	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.70%			
19) Nitrobenzene-d5	7.245	82	10375	0.388	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 38.80%			
46) 2-Fluorobiphenyl	9.127	172	27368	0.415	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 41.50%			
79) 2,4,6-Tribromophenol	10.539	330	3967	0.397	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 19.85%			
96) 4-Terphenyl-d14	12.804	244	39616	0.455	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 45.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.310	74	6334	0.451	ug/ml#	69
3) Pyridine	2.375	79	9961M1	0.433	ug/ml	
5) Aniline	6.204	93	13801	0.408	ug/ml	99
6) 2-Chlorophenol	6.345	128	10062	0.473	ug/ml	94
8) Phenol	6.245	94	11649	0.430	ug/ml	98
9) Bis(2-chloroethyl)ether	6.328	93	9537	0.428	ug/ml#	82
10) 1,3-Dichlorobenzene	6.528	146	13732	0.538	ug/ml	95
11) 1,4-Dichlorobenzene	6.622	146	13732	0.531	ug/ml	98
12) 1,2-Dichlorobenzene	6.798	146	12792	0.509	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	8109	0.387	ug/ml	95
14) Bis(2-chloroisopropyl)...	6.975	45	15637	0.437	ug/ml#	55
15) 2-Methylphenol	6.963	108	8731	0.447	ug/ml	97
16) Hexachloroethane	7.186	117	4938	0.480	ug/ml#	65
17) n-Nitrosodi-n-propylamine	7.122	70	7045	0.404	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.145	108	9500	0.450	ug/ml	99
20) Nitrobenzene	7.269	77	10659	0.393	ug/ml	96
21) Isophorone	7.545	82	18275	0.401	ug/ml	95
22) 2-Nitrophenol	7.622	139	4949	0.433	ug/ml	90
23) 2,4-Dimethylphenol	7.716	107	8695	0.405	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.810	93	12716	0.433	ug/ml#	96
25) 2,4-Dichlorophenol	7.881	162	9099	0.447	ug/ml	92
26) 1,2,4-Trichlorobenzene	7.963	180	11671	0.468	ug/ml	96
36) Naphthalene	8.033	128	34138	0.464	ug/ml	99
37) Benzoic Acid	7.775	105	2290M1	0.489	ug/ml	
38) 4-Chloroaniline	8.110	65	3555	0.328	ug/ml#	68
39) Hexachlorobutadiene	8.198	225	7108	0.366	ug/ml	100
40) p-Chloro-m-cresol	8.633	107	8248	0.375	ug/ml	96
41) 2-Methylnaphthalene	8.745	142	22014	0.449	ug/ml	98
42) 1-Methylnaphthalene	8.839	115	7325	0.393	ug/ml	92
43) Hexachlorocyclopentadiene	8.922	237	7896	0.366	ug/ml	99
44) 2,4,6-Trichlorophenol	9.039	196	8087	0.419	ug/ml	91
45) 2,4,5-Trichlorophenol	9.069	196	8138	0.394	ug/ml	93
47) 2-Chloronaphthalene	9.222	162	23352	0.448	ug/ml	94
48) 2-Nitroaniline	9.333	138	6274	0.399	ug/ml#	81
49) 1,4-Dinitrobenzene	9.469	168	3313	0.401	ug/ml	80
50) 1,3-Dinitrobenzene	9.545	168	3540	0.376	ug/ml#	1
51) Dimethyl phthalate	9.539	163	28188	0.444	ug/ml	99
52) Acenaphthylene	9.627	152	34410	0.431	ug/ml	100
53) 2,6-Dinitrotoluene	9.580	165	5175	0.379	ug/ml#	78
54) 1,2-Dinitrobenzene	9.627	168	2228	0.382	ug/ml#	1
64) 3-Nitroaniline	9.739	138	5701	0.445	ug/ml	89
65) Acenaphthene	9.804	154	21041	0.455	ug/ml	87
66) 2,4-Dinitrophenol	9.845	184	1597	0.187	ug/ml#	71
67) Dibenzofuran	9.975	168	33587	0.433	ug/ml	97
68) 2,4-Dinitrotoluene	9.975	165	7068	0.371	ug/ml	98
69) 4-Nitrophenol	9.922	65	3791	0.292	ug/ml#	82
70) 2,3,5,6-Tetrachlorophenol	10.063	232	6751	0.372	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	6792	0.389	ug/ml		99
72)	Diethyl phthalate	10.233	149	28402	0.463	ug/ml		98
73)	Fluorene	10.310	166	26998	0.442	ug/ml		95
74)	4-Chlorophenyl phenyl ...	10.327	204	14085	0.438	ug/ml		87
75)	4-Nitroaniline	10.327	138	5841	0.438	ug/ml		85
76)	4,6-Dinitro-o-cresol	10.369	198	3366	0.315	ug/ml	#	62
77)	NDPA/DPA	10.439	169	23369	0.462	ug/ml		99
78)	Azobenzene	10.474	77	21953	0.379	ug/ml	#	88
80)	4-Bromophenyl phenyl e...	10.798	248	8864	0.442	ug/ml	#	82
81)	Hexachlorobenzene	10.851	284	9663	0.424	ug/ml	#	82
82)	Pentachlorophenol	11.045	266	4435	0.306	ug/ml		90
89)	Phenanthrene	11.233	178	41775	0.462	ug/ml		99
90)	Anthracene	11.286	178	42546	0.473	ug/ml		99
91)	Carbazole	11.451	167	37204	0.452	ug/ml		99
92)	Di-n-butylphthalate	11.839	149	46219	0.478	ug/ml		98
93)	Fluoranthene	12.392	202	50109	0.453	ug/ml	#	92
94)	Benzidine	12.545	184	24083	0.401	ug/ml	#	93
95)	Pyrene	12.616	202	53019	0.455	ug/ml		97
97)	Butyl benzyl phthalate	13.327	149	17868	0.401	ug/ml		88
105)	Benzo(a)anthracene	13.857	228	51493	0.412	ug/ml		99
106)	3,3'-Dichlorobenzidine	13.857	252	15712	0.380	ug/ml		98
107)	Chrysene	13.898	228	52235	0.432	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	28063	0.406	ug/ml	#	92
109)	Di-n-octylphthalate	14.651	149	44366	0.388	ug/ml	#	74
110)	Benzo(b)fluoranthene	14.974	252	50696	0.419	ug/ml	#	95
111)	Benzo(k)fluoranthene	14.998	252	46890	0.409	ug/ml	#	95
112)	Benzo(a)pyrene	15.286	252	40649	0.387	ug/ml	#	95
114)	Indeno(1,2,3-cd)pyrene	16.351	276	46348M6	0.482	ug/mL		
115)	Dibenzo(a,h)anthracene	16.374	278	44838	0.484	ug/ml	#	91
116)	Benzo(ghi)perylene	16.615	276	43164	0.504	ug/ml	#	89

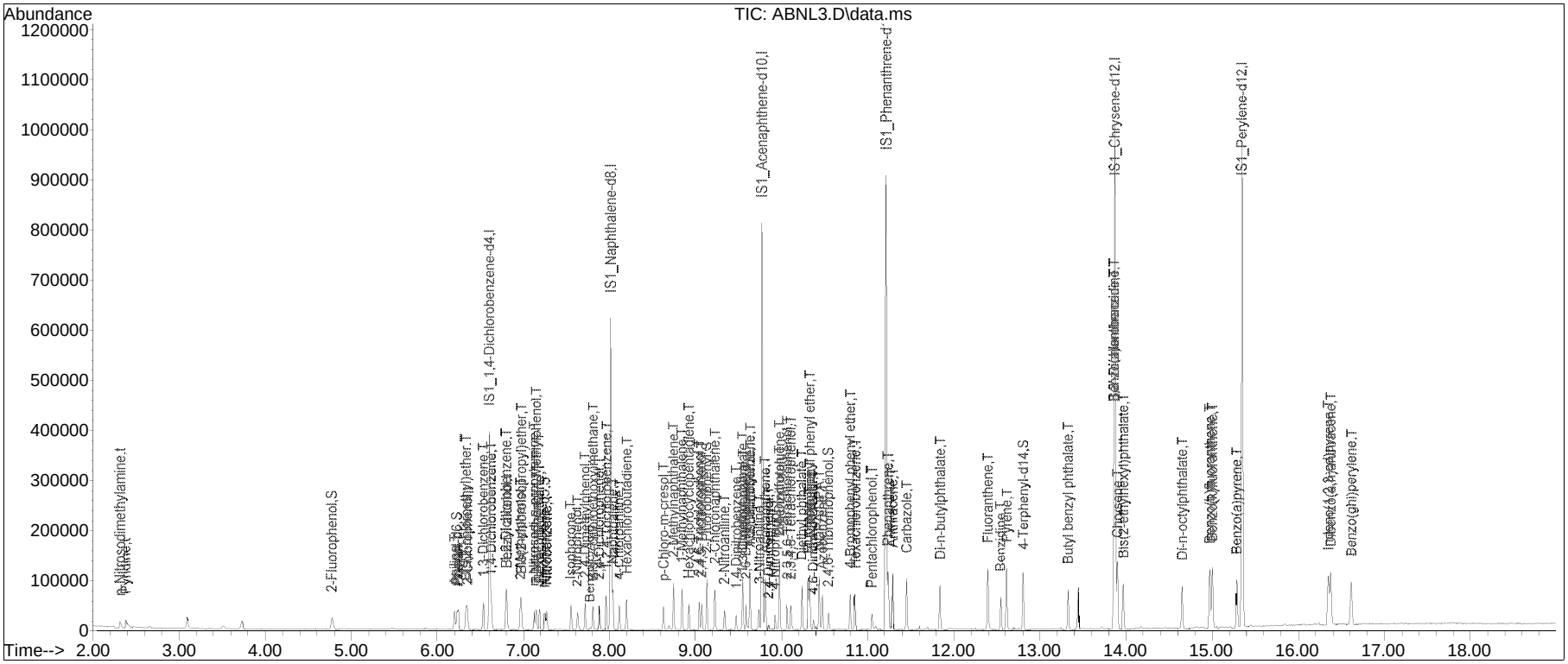
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL3.D
Acq On : 9 Oct 2024 10:29 pm
Operator : SV106:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11010
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 11:29:41 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

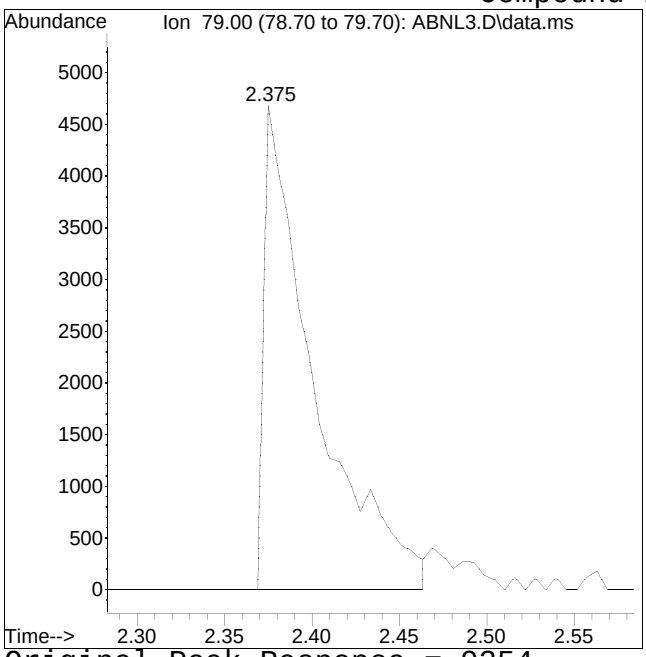
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

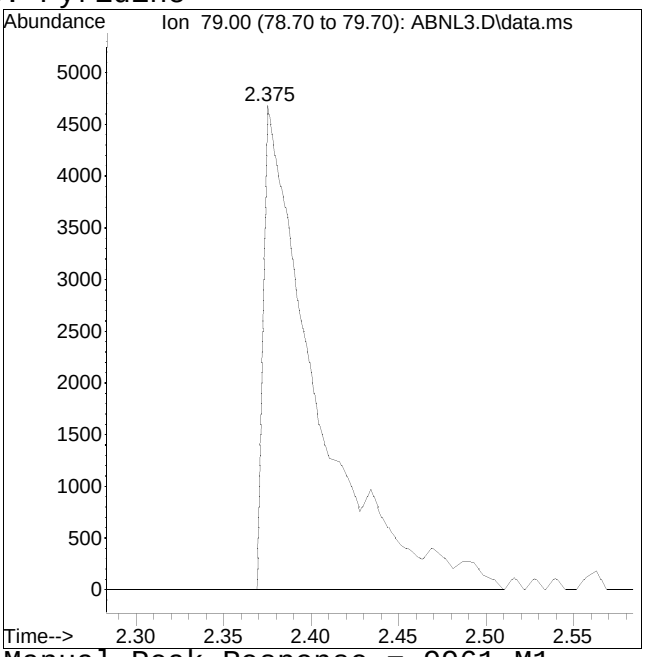


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL3.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:29 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11010Quant Date : 10/11/2024 11:13 am

Compound #3: Pyridine





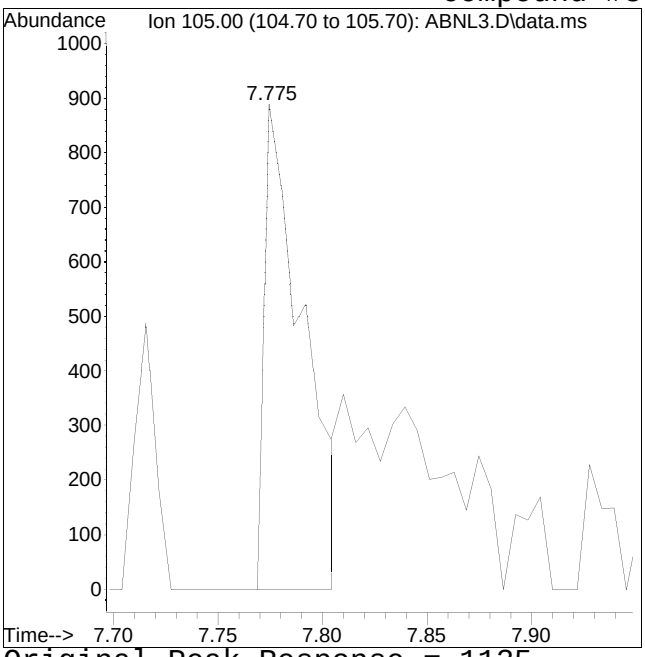
Original Peak Response = 9354 Manual Peak Response = 9961 M1

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

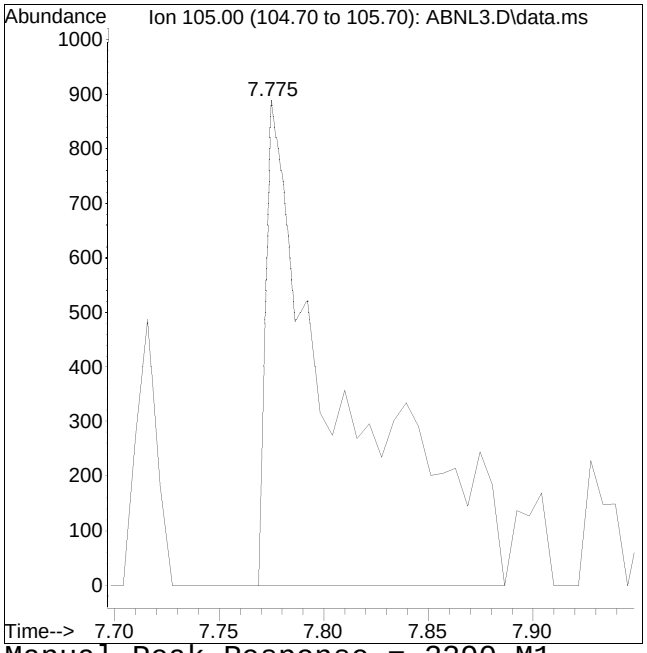
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL3.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:29 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11010Quant Date : 10/11/2024 11:13 am

Compound #37: Benzoic Acid



Original Peak Response = 1135



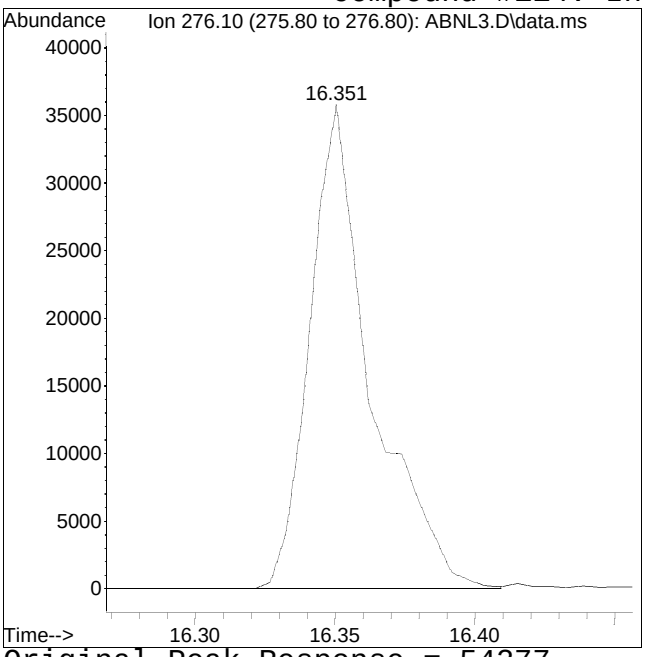
Manual Peak Response = 2290 M1

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

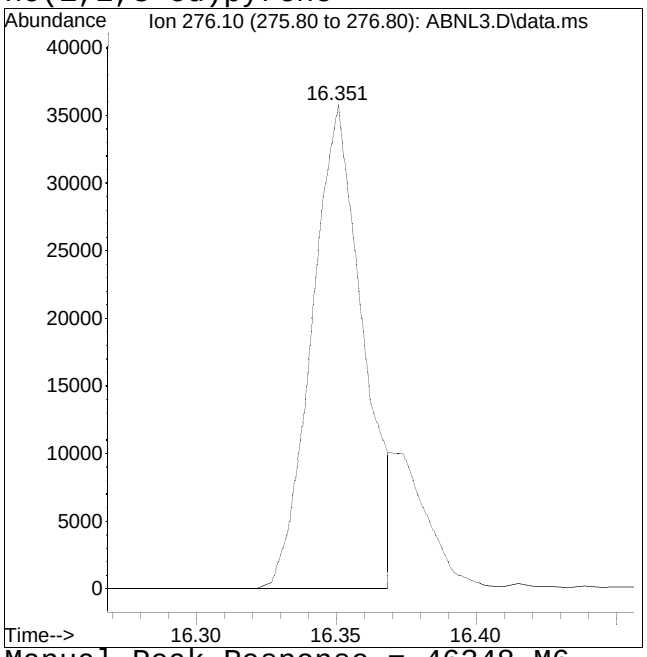
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL3.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:29 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11010Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 54277



Manual Peak Response = 46348 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.598	152	90668	4.000 ug/ml	0.00
Standard Area 1 = 69296			Recovery = 130.84%		
35) IS1_Naphthalene-d8	8.010	136	337819	4.000 ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 127.68%		
63) IS1_Acenaphthene-d10	9.769	164	197727	4.000 ug/ml	0.00
Standard Area 1 = 166975			Recovery = 118.42%		
88) IS1_Phenanthrene-d10	11.216	188	380017	4.000 ug/ml	0.00
Standard Area 1 = 326455			Recovery = 116.41%		
104) IS1_Chrysene-d12	13.868	240	377623	4.000 ug/ml	0.00
Standard Area 1 = 353807			Recovery = 106.73%		
113) IS1_Perylene-d12	15.351	264	394228	4.000 ug/ml	0.00
Standard Area 1 = 379737			Recovery = 103.82%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.775	112	5909	0.225 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.25%#		
7) Phenol-d6	6.228	99	7579	0.211 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.55%#		
19) Nitrobenzene-d5	7.245	82	6186	0.169 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 16.90%#		
46) 2-Fluorobiphenyl	9.128	172	16742	0.193 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.30%#		
79) 2,4,6-Tribromophenol	10.545	330	2420	0.196 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.80%#		
96) 4-Terphenyl-d14	12.804	244	21963	0.215 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 21.50%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.316	74	3587	0.186 ug/ml#	75
3) Pyridine	2.393	79	6151M1	0.195 ug/ml	
5) Aniline	6.204	93	7937	0.171 ug/ml	94
6) 2-Chlorophenol	6.345	128	6817	0.234 ug/ml	89
8) Phenol	6.240	94	7208	0.194 ug/ml	97
9) Bis(2-chloroethyl)ether	6.328	93	6481	0.212 ug/ml	87
10) 1,3-Dichlorobenzene	6.528	146	8139	0.232 ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	8599	0.242 ug/ml	96
12) 1,2-Dichlorobenzene	6.798	146	7810	0.226 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	5192	0.181	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.975	45	9711	0.198	ug/ml#	49
15) 2-Methylphenol	6.969	108	5170	0.193	ug/ml	91
16) Hexachloroethane	7.187	117	2882	0.204	ug/ml#	55
17) n-Nitrosodi-n-propylamine	7.122	70	4563	0.190	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.145	108	5654	0.195	ug/ml	90
20) Nitrobenzene	7.269	77	6544	0.176	ug/ml	96
21) Isophorone	7.545	82	11305	0.181	ug/ml	99
22) 2-Nitrophenol	7.622	139	3366	0.215	ug/ml	91
23) 2,4-Dimethylphenol	7.716	107	5275	0.179	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.810	93	7160	0.178	ug/ml	94
25) 2,4-Dichlorophenol	7.881	162	5857	0.210	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.963	180	7195	0.210	ug/ml	95
36) Naphthalene	8.034	128	20745	0.214	ug/ml	100
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	8.110	65	2439	0.171	ug/ml	82
39) Hexachlorobutadiene	8.198	225	4427	0.173	ug/ml	97
40) p-Chloro-m-cresol	8.634	107	5225	0.181	ug/ml	95
41) 2-Methylnaphthalene	8.745	142	13568	0.210	ug/ml	96
42) 1-Methylnaphthalene	8.839	115	4484	0.183	ug/ml	95
43) Hexachlorocyclopentadiene	8.922	237	4695	0.166	ug/ml	94
44) 2,4,6-Trichlorophenol	9.039	196	4803	0.189	ug/ml	91
45) 2,4,5-Trichlorophenol	9.069	196	5128	0.189	ug/ml	86
47) 2-Chloronaphthalene	9.222	162	14120	0.206	ug/ml	95
48) 2-Nitroaniline	9.333	138	3567	0.173	ug/ml	85
49) 1,4-Dinitrobenzene	9.469	168	1885M3	0.173	ug/ml	
50) 1,3-Dinitrobenzene	9.545	168	1762	0.142	ug/ml#	1
51) Dimethyl phthalate	9.539	163	15938	0.191	ug/ml#	98
52) Acenaphthylene	9.628	152	20761	0.198	ug/ml	98
53) 2,6-Dinitrotoluene	9.581	165	2835	0.158	ug/ml#	85
54) 1,2-Dinitrobenzene	9.628	168	1338	0.174	ug/ml#	1
64) 3-Nitroaniline	9.739	138	3244	0.205	ug/ml#	87
65) Acenaphthene	9.798	154	12230	0.215	ug/ml	87
66) 2,4-Dinitrophenol	9.845	184	503	0.048	ug/ml#	25
67) Dibenzofuran	9.975	168	20998	0.219	ug/ml	94
68) 2,4-Dinitrotoluene	9.975	165	4138	0.176	ug/ml	93
69) 4-Nitrophenol	9.922	65	2244	0.140	ug/ml	95
70) 2,3,5,6-Tetrachlorophenol	10.063	232	3760	0.168	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	10.104	232	3678M3	0.171	ug/ml	
72) Diethyl phthalate	10.233	149	15840	0.210	ug/ml	97
73) Fluorene	10.310	166	15617	0.208	ug/ml	89
74) 4-Chlorophenyl phenyl ...	10.328	204	8199	0.207	ug/ml	89
75) 4-Nitroaniline	10.328	138	2977	0.181	ug/ml	91
76) 4,6-Dinitro-o-cresol	10.369	198	1212	0.092	ug/ml#	77
77) NDPA/DPA	10.439	169	12887	0.206	ug/ml	96
78) Azobenzene	10.475	77	12942	0.181	ug/ml	93
80) 4-Bromophenyl phenyl e...	10.798	248	4854	0.196	ug/ml#	83
81) Hexachlorobenzene	10.851	284	5855	0.208	ug/ml#	81
82) Pentachlorophenol	11.045	266	1872	0.105	ug/ml	96
89) Phenanthrene	11.239	178	25444	0.240	ug/ml	97
90) Anthracene	11.286	178	23814	0.226	ug/ml	99
91) Carbazole	11.451	167	19842	0.205	ug/ml	97
92) Di-n-butylphthalate	11.839	149	24348	0.214	ug/ml	99
93) Fluoranthene	12.398	202	26940	0.208	ug/ml#	93
94) Benzidine	12.545	184	9775	0.139	ug/ml#	93
95) Pyrene	12.616	202	28315	0.207	ug/ml	99
97) Butyl benzyl phthalate	13.327	149	9319	0.178	ug/ml	89
105) Benzo(a)anthracene	13.863	228	28938	0.207	ug/ml	97
106) 3,3'-Dichlorobenzidine	13.857	252	8054	0.174	ug/ml#	94
107) Chrysene	13.898	228	27323	0.203	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	13.968	149	14429	0.187	ug/ml#	91
109) Di-n-octylphthalate	14.651	149	23620	0.185	ug/ml#	76
110) Benzo(b)fluoranthene	14.974	252	25853	0.191	ug/ml#	94
111) Benzo(k)fluoranthene	14.998	252	24956	0.195	ug/ml#	94
112) Benzo(a)pyrene	15.292	252	22337	0.191	ug/ml#	93
114) Indeno(1,2,3-cd)pyrene	16.351	276	24560M6	0.230	ug/mL	
115) Dibenzo(a,h)anthracene	16.374	278	24341	0.237	ug/ml#	91
116) Benzo(ghi)perylene	16.615	276	23004	0.242	ug/ml#	90

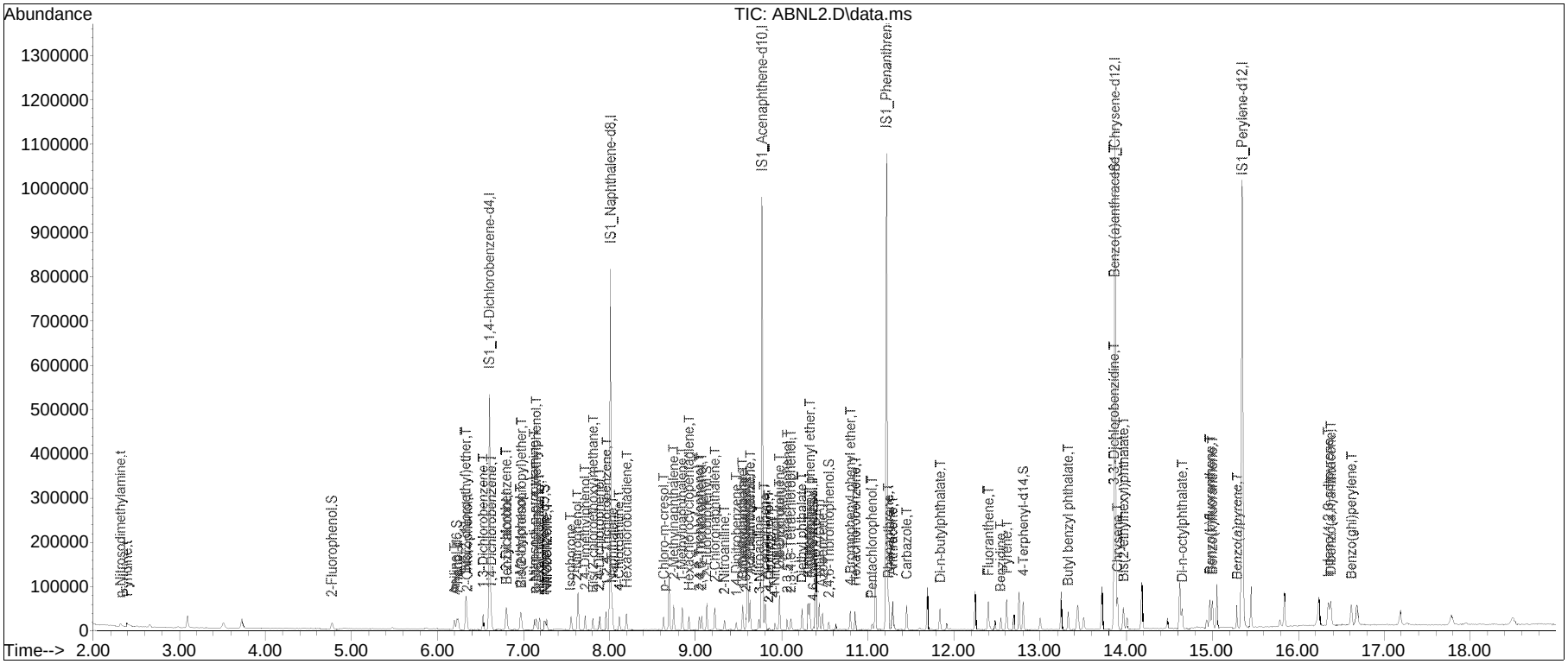
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL2.D
Acq On : 9 Oct 2024 10:52 pm
Operator : SV106:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11011
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 11:27:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

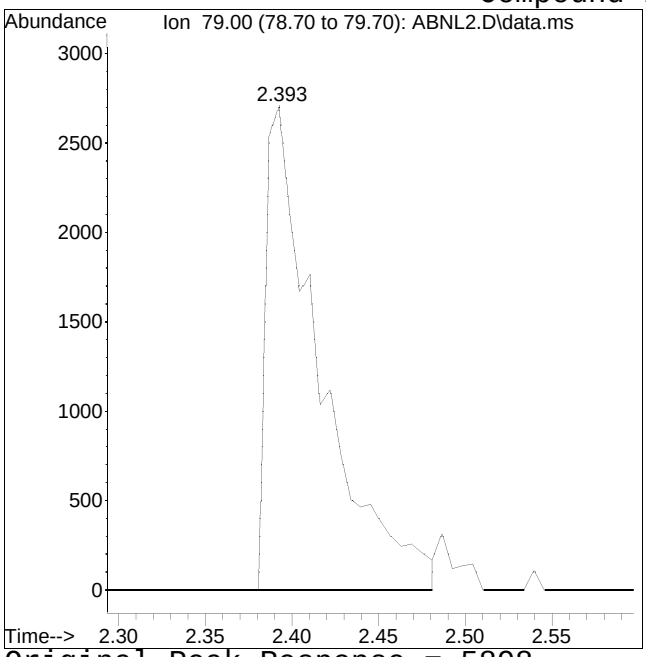
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

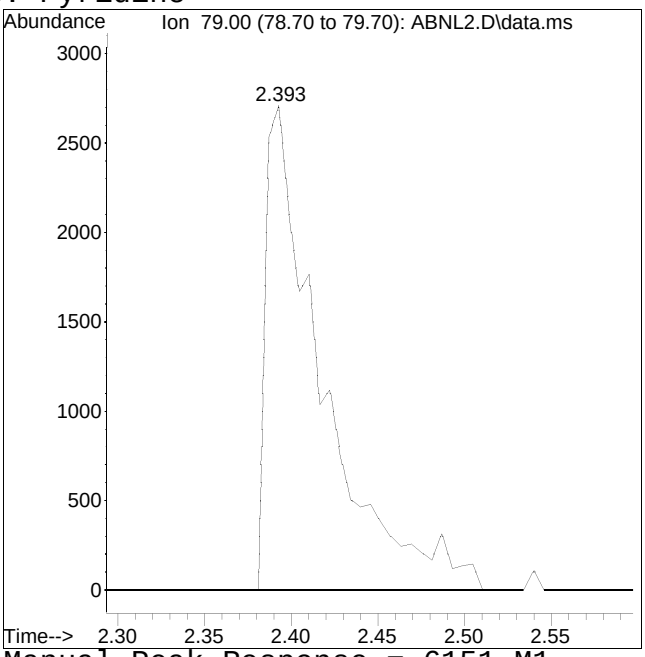


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #3: Pyridine



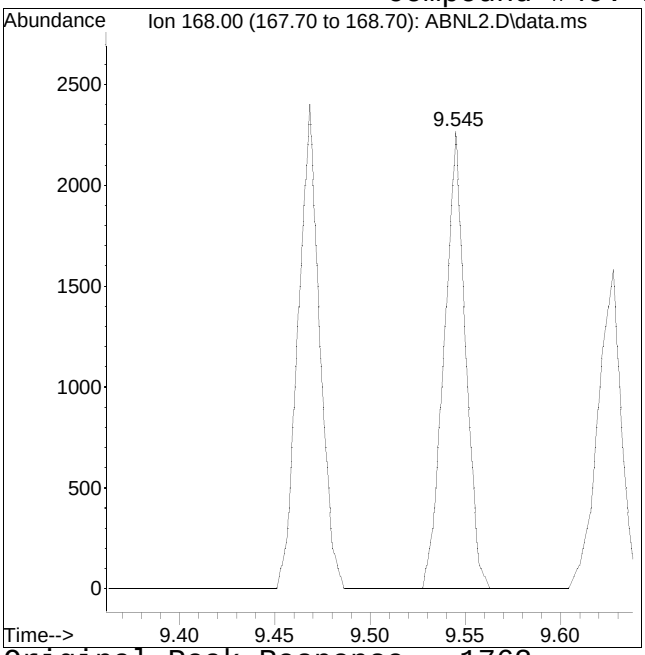


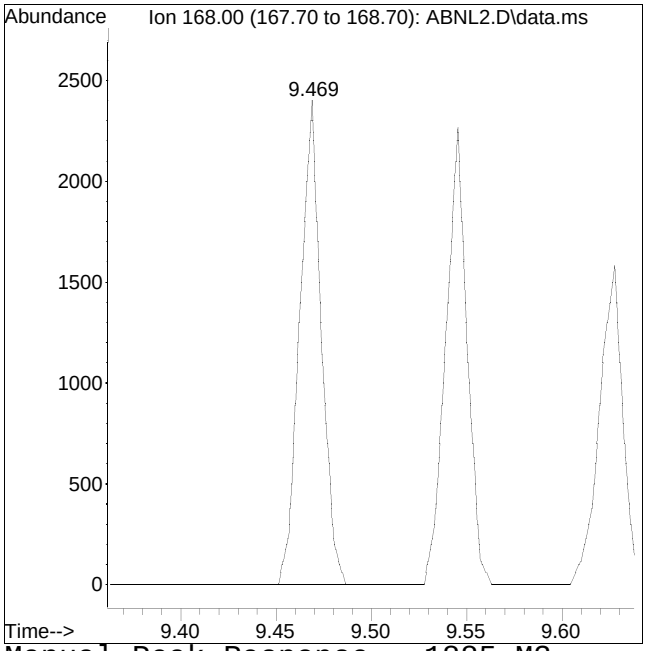
Original Peak Response = 5898 Manual Peak Response = 6151 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #49: 1,4-Dinitrobenzene





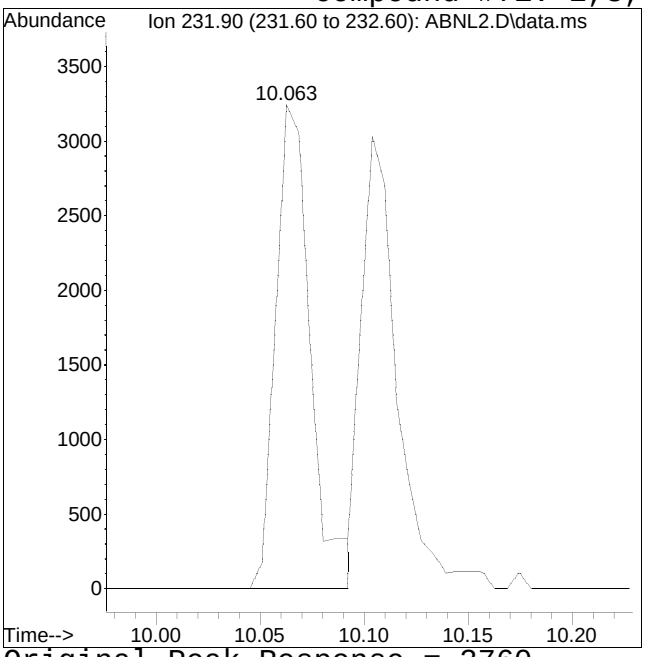
Original Peak Response = 1762 Manual Peak Response = 1885 M3

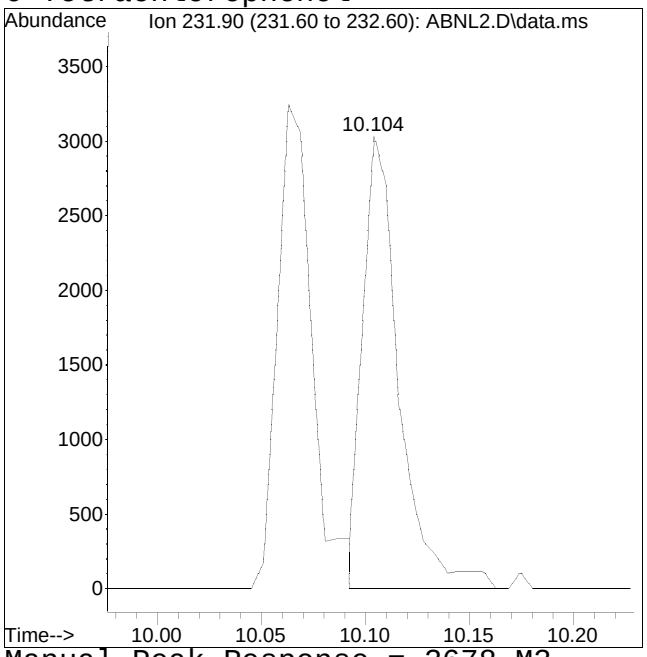
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #71: 2,3,4,6-Tetrachlorophenol



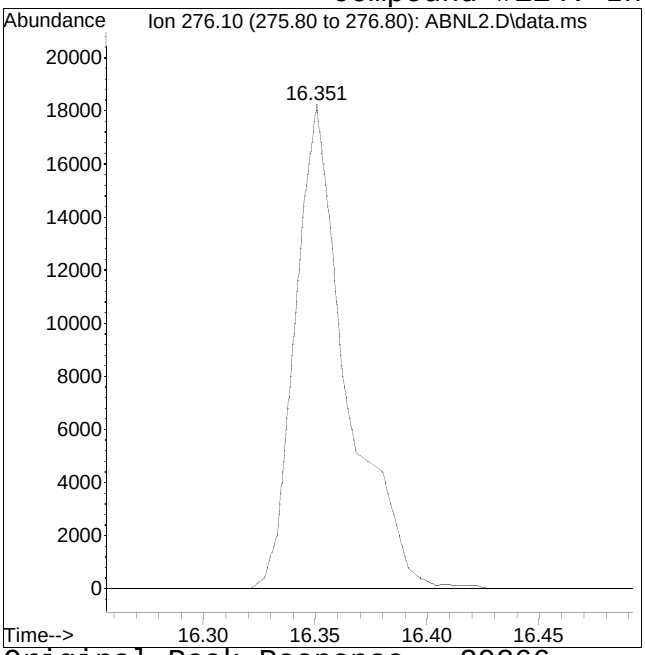


Original Peak Response = 3760 Manual Peak Response = 3678 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

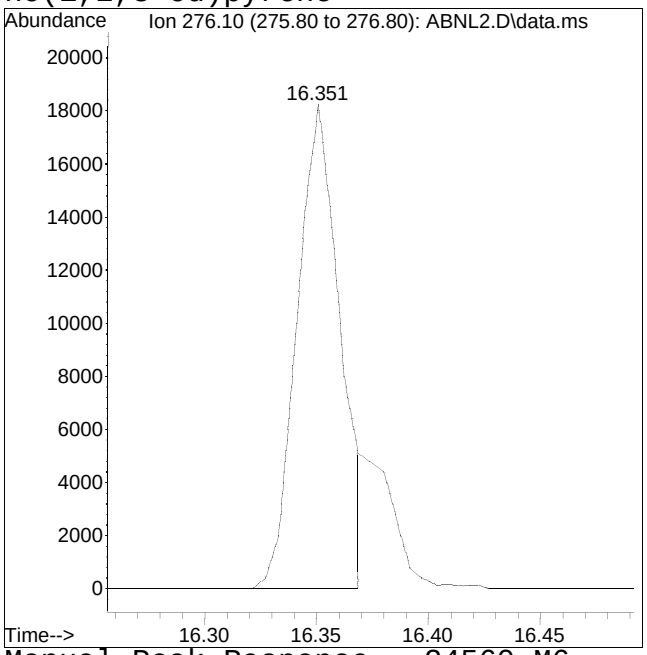
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL2.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 10:52 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11011Quant Date : 10/11/2024 11:13 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 29266



Manual Peak Response = 24560 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.598	152	75952	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 109.61%			
35) IS1_Naphthalene-d8	8.010	136	281373	4.000	ug/ml	0.00
Standard Area 1 = 264583			Recovery = 106.35%			
63) IS1_Acenaphthene-d10	9.769	164	164424	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 98.47%			
88) IS1_Phenanthrene-d10	11.216	188	313559	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 96.05%			
104) IS1_Chrysene-d12	13.868	240	306984	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 86.77%			
113) IS1_Perylene-d12	15.345	264	314348	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 82.78%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	2790	0.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 6.35%#			
7) Phenol-d6	6.228	99	3209	0.107	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.35%#			
19) Nitrobenzene-d5	7.251	82	3159	0.103	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.30%#			
46) 2-Fluorobiphenyl	9.127	172	7881	0.109	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.90%#			
79) 2,4,6-Tribromophenol	10.545	330	965	0.094	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.70%#			
96) 4-Terphenyl-d14	12.804	244	10172	0.121	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 12.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.322	74	1508	0.093	ug/ml#	86
3) Pyridine	2.410	79	2390M1	0.090	ug/ml	
5) Aniline	6.204	93	3158	0.081	ug/ml	94
6) 2-Chlorophenol	6.345	128	2710	0.111	ug/ml	94
8) Phenol	6.245	94	3383	0.109	ug/ml	93
9) Bis(2-chloroethyl)ether	6.328	93	2938	0.115	ug/ml	91
10) 1,3-Dichlorobenzene	6.528	146	3437	0.117	ug/ml	96
11) 1,4-Dichlorobenzene	6.622	146	3519M3	0.118	ug/ml	
12) 1,2-Dichlorobenzene	6.798	146	3772	0.130	ug/ml	95

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.804	79	2193	0.091	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.975	45	4720	0.115	ug/ml#	57
15) 2-Methylphenol	6.969	108	2354	0.105	ug/ml	94
16) Hexachloroethane	7.186	117	1349	0.114	ug/ml#	54
17) n-Nitrosodi-n-propylamine	7.128	70	2030	0.101	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.151	108	2565	0.106	ug/ml#	90
20) Nitrobenzene	7.269	77	3176	0.102	ug/ml#	84
21) Isophorone	7.551	82	5099	0.097	ug/ml#	95
22) 2-Nitrophenol	7.622	139	1377	0.105	ug/ml#	73
23) 2,4-Dimethylphenol	7.716	107	2418	0.098	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.810	93	3636	0.108	ug/ml#	91
25) 2,4-Dichlorophenol	7.881	162	2665	0.114	ug/ml#	90
26) 1,2,4-Trichlorobenzene	7.963	180	3221	0.112	ug/ml	97
36) Naphthalene	8.033	128	9515	0.118	ug/ml	97
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	8.116	65	863	0.073	ug/ml#	42
39) Hexachlorobutadiene	8.198	225	1791	0.084	ug/ml	90
40) p-Chloro-m-cresol	8.633	107	2117	0.088	ug/ml#	87
41) 2-Methylnaphthalene	8.745	142	6321	0.118	ug/ml	97
42) 1-Methylnaphthalene	8.839	115	2065	0.101	ug/ml	90
43) Hexachlorocyclopentadiene	8.922	237	1870	0.079	ug/ml#	88
44) 2,4,6-Trichlorophenol	9.045	196	2151	0.102	ug/ml	95
45) 2,4,5-Trichlorophenol	9.075	196	2029	0.090	ug/ml	94
47) 2-Chloronaphthalene	9.222	162	6703	0.117	ug/ml	94
48) 2-Nitroaniline	9.333	138	1775	0.103	ug/ml#	72
49) 1,4-Dinitrobenzene	9.469	168	792M3	0.087	ug/ml	
50) 1,3-Dinitrobenzene	9.545	168	926	0.090	ug/ml#	1
51) Dimethyl phthalate	9.539	163	7468	0.107	ug/ml#	96
52) Acenaphthylene	9.627	152	9531	0.109	ug/ml	98
53) 2,6-Dinitrotoluene	9.580	165	1359	0.091	ug/ml#	78
54) 1,2-Dinitrobenzene	9.627	168	619	0.097	ug/ml#	1
64) 3-Nitroaniline	9.739	138	1335	0.102	ug/ml#	94
65) Acenaphthene	9.804	154	6033	0.127	ug/ml	88
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	9.975	168	9801	0.123	ug/ml	97
68) 2,4-Dinitrotoluene	9.975	165	1793	0.092	ug/ml	92
69) 4-Nitrophenol	9.927	65	935	0.070	ug/ml#	69
70) 2,3,5,6-Tetrachlorophenol	10.063	232	1530	0.082	ug/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	1666	0.093	ug/ml	99
72)	Diethyl phthalate	10.233	149	7472	0.119	ug/ml	98
73)	Fluorene	10.310	166	7305	0.117	ug/ml	93
74)	4-Chlorophenyl phenyl ...	10.327	204	4068	0.123	ug/ml#	83
75)	4-Nitroaniline	10.333	138	1464	0.107	ug/ml	84
76)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
77)	NDPA/DPA	10.439	169	6176	0.119	ug/ml	95
78)	Azobenzene	10.474	77	5919	0.100	ug/ml#	86
80)	4-Bromophenyl phenyl e...	10.798	248	2400	0.117	ug/ml#	88
81)	Hexachlorobenzene	10.851	284	2952	0.126	ug/ml#	80
82)	Pentachlorophenol	11.045	266	782	0.053	ug/ml#	51
89)	Phenanthrene	11.233	178	11791	0.135	ug/ml	97
90)	Anthracene	11.286	178	11708	0.134	ug/ml	98
91)	Carbazole	11.451	167	10169	0.127	ug/ml	96
92)	Di-n-butylphthalate	11.839	149	11445	0.122	ug/ml	100
93)	Fluoranthene	12.398	202	12644	0.118	ug/ml#	91
94)	Benzidine	12.545	184	2713	0.047	ug/ml#	68
95)	Pyrene	12.616	202	13268	0.118	ug/ml	97
97)	Butyl benzyl phthalate	13.327	149	4342	0.101	ug/ml	88
105)	Benzo(a)anthracene	13.863	228	13554	0.119	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.857	252	3549	0.095	ug/ml#	93
107)	Chrysene	13.898	228	13157	0.120	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.968	149	6371	0.102	ug/ml#	97
109)	Di-n-octylphthalate	14.651	149	9668	0.093	ug/ml#	81
110)	Benzo(b)fluoranthene	14.974	252	11383M3	0.104	ug/ml	
111)	Benzo(k)fluoranthene	15.004	252	10975	0.105	ug/ml	98
112)	Benzo(a)pyrene	15.292	252	9484	0.100	ug/ml	97
114)	Indeno(1,2,3-cd)pyrene	16.351	276	10975M6	0.129	ug/mL	
115)	Dibenzo(a,h)anthracene	16.374	278	10292	0.126	ug/ml	95
116)	Benzo(ghi)perylene	16.615	276	10063	0.133	ug/ml#	90

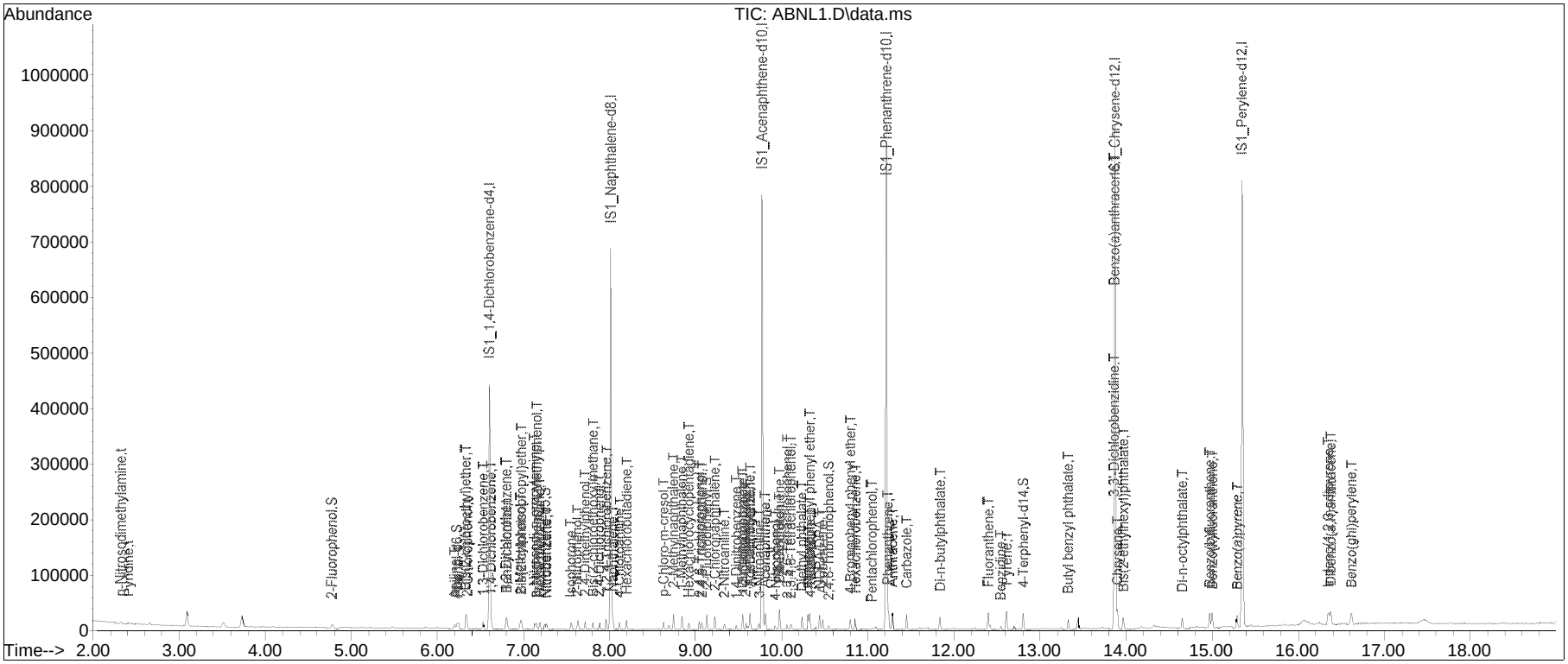
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNL1.D
Acq On : 9 Oct 2024 11:16 pm
Operator : SV106:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11012
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 11:23:58 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

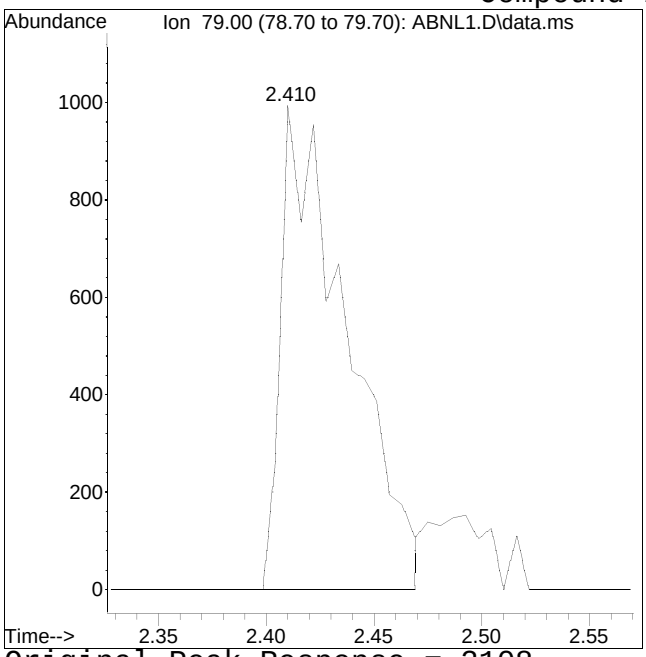
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

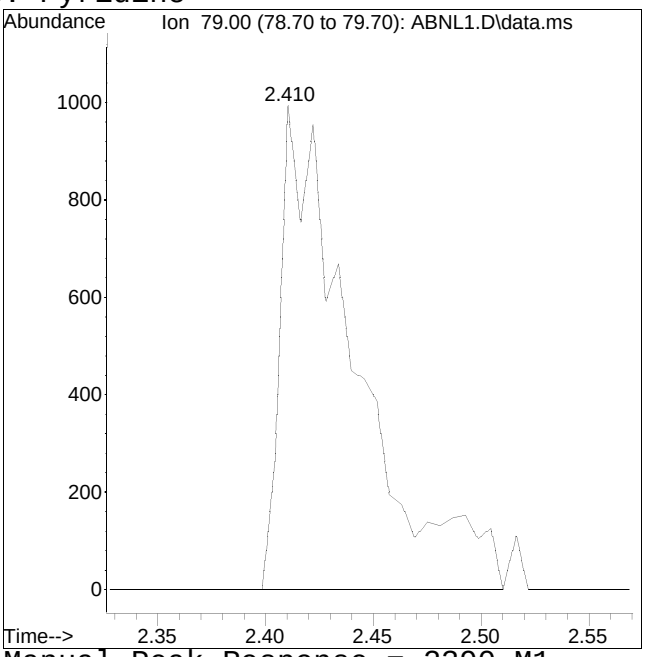


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #3: Pyridine



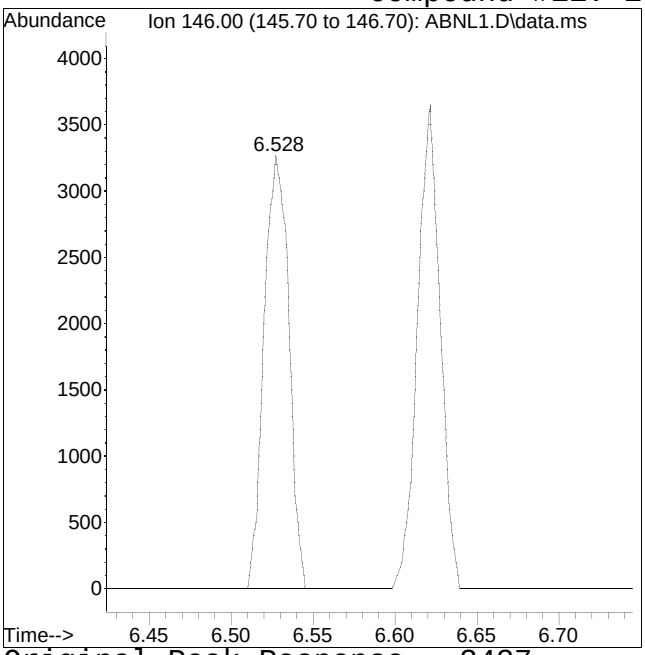


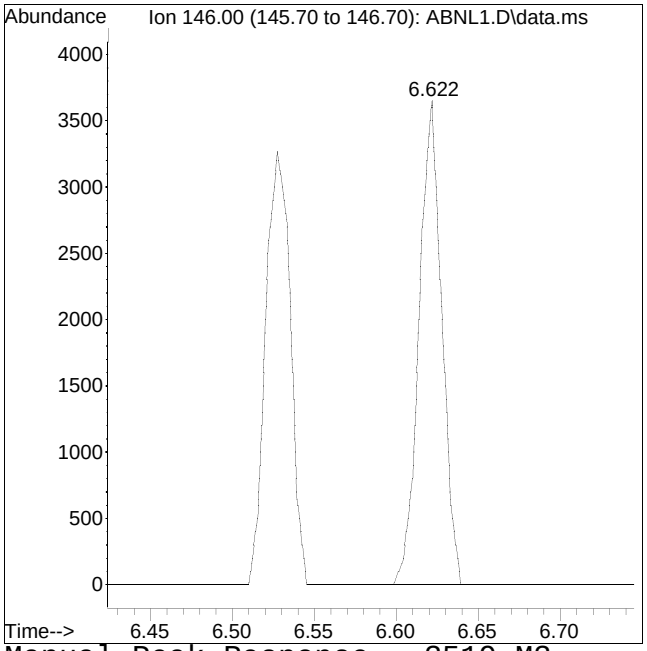
Original Peak Response = 2108 Manual Peak Response = 2390 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #11: 1,4-Dichlorobenzene





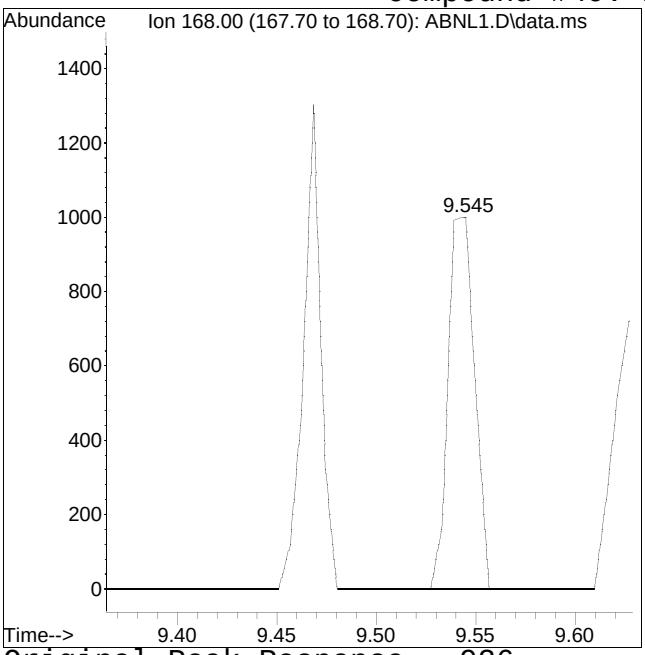
Original Peak Response = 3437 Manual Peak Response = 3519 M3

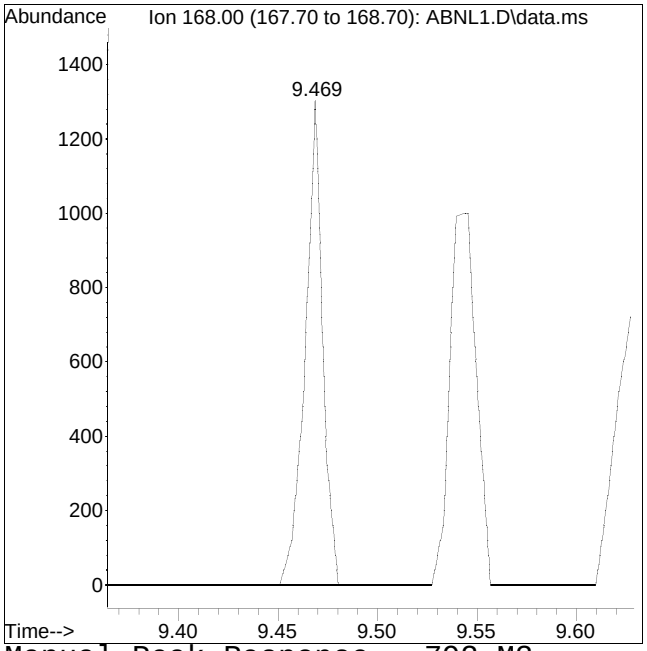
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #49: 1,4-Dinitrobenzene





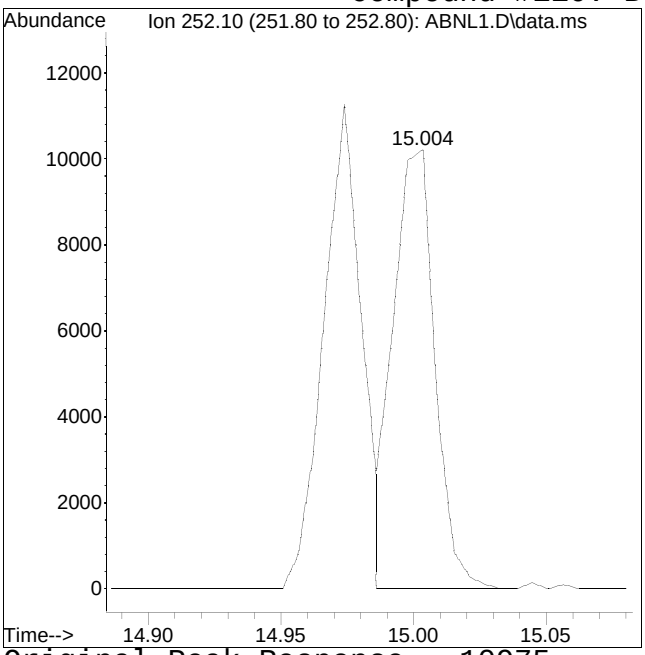
Original Peak Response = 926 Manual Peak Response = 792 M3

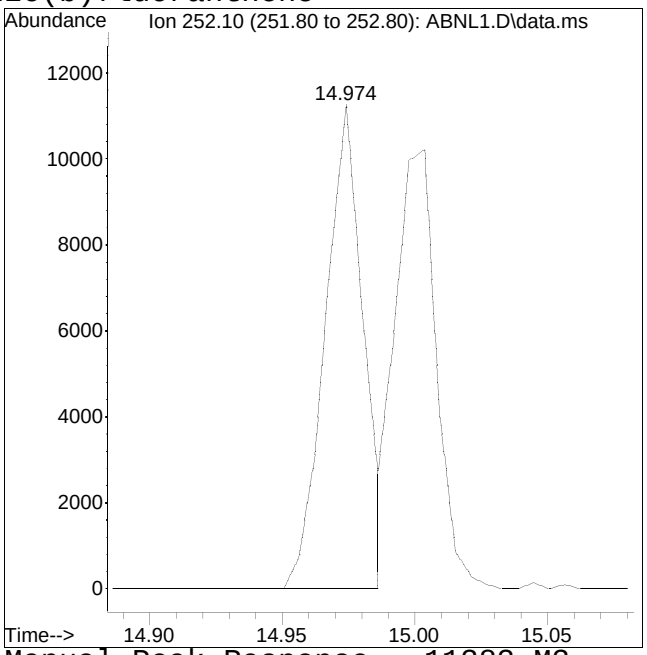
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #110: Benzo(b)fluoranthene



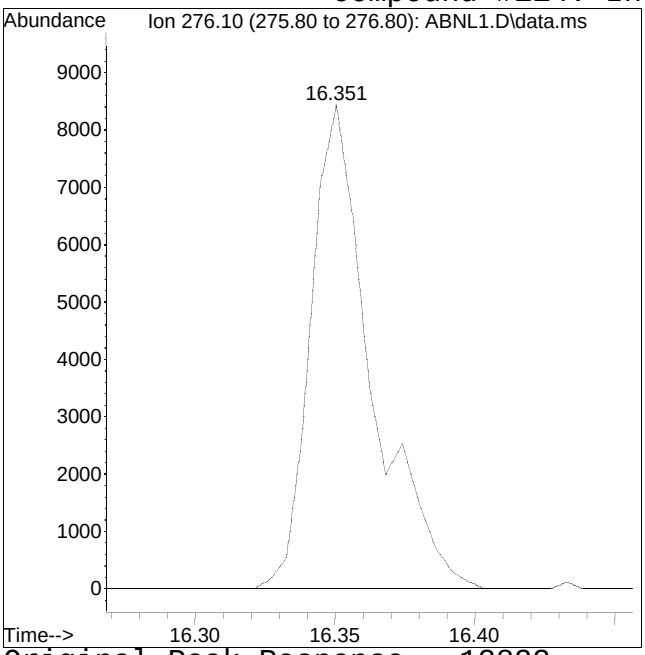


Original Peak Response = 10975 Manual Peak Response = 11383 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

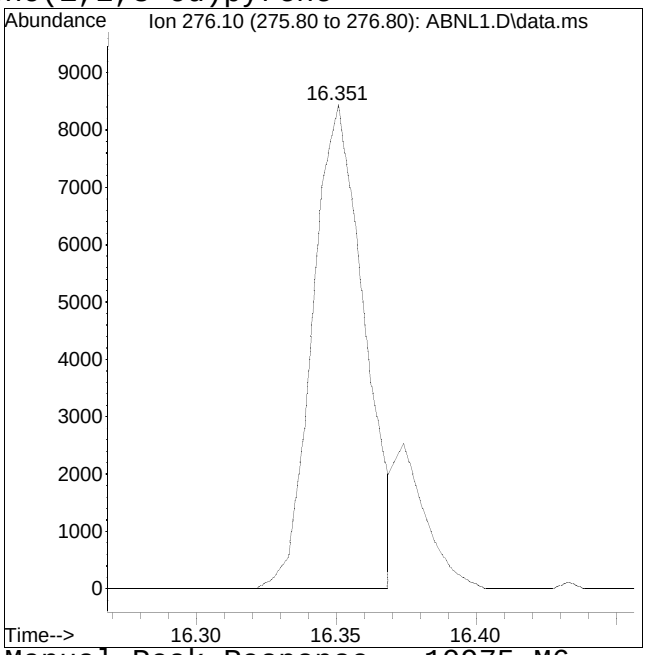
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNL1.D Operator : SV106:HNY
Date Inj'd : 10/9/2024 11:16 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1101Quant Date : 10/11/2024 11:12 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 12822



Manual Peak Response = 10975 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L9.D
Acq On : 9 Oct 2024 11:40 pm
Operator : SV106:HNY
Sample : IL2,32,,AP9L50 Lot# 11013
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 11:58:21 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	63962	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery =	93.27%		
55) IS2_Naphthalene-d8	8.010	136	239150	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery =	91.59%		
83) IS2_Acenaphthene-d10	9.769	164	144800	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery =	94.04%		
98) IS2_Phenanthrene-d10	11.216	188	289187	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery =	89.20%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.040	105	886267	46.676	ug/ml	94
29) Acetophenone	7.087	105	1671775	48.441	ug/ml#	80
30) m-Toluidine	7.186	106	1528652	48.851	ug/ml	95
31) 2-Chloroaniline	7.586	127	1498557	54.827	ug/ml#	91
56) a-Terpineol	8.086	59	1005471	42.030	ug/ml#	82
57) 3-Chloroaniline	8.098	65	455412	37.962	ug/ml	95
58) 2,6-Dichlorophenol	8.128	162	1078810	49.893	ug/ml#	85
59) 1-chloro-2-nitrobenzene	8.386	111	505579	46.925	ug/ml#	1
60) Caprolactam	8.451	55	532204	42.387	ug/ml#	69
61) 1,2,4,5-Tetrachloroben...	8.922	216	1338936	40.831	ug/ml	98
62) Biphenyl	9.222	154	3084011	47.577	ug/ml	99
84) Dichloran	10.910	206	409469	45.771	ug/ml#	67
85) Pentachloronitrobenzene	11.063	237	409184	41.849	ug/ml#	80
99) Diphenamid	12.127	167	2192949	54.041	ug/ml#	78

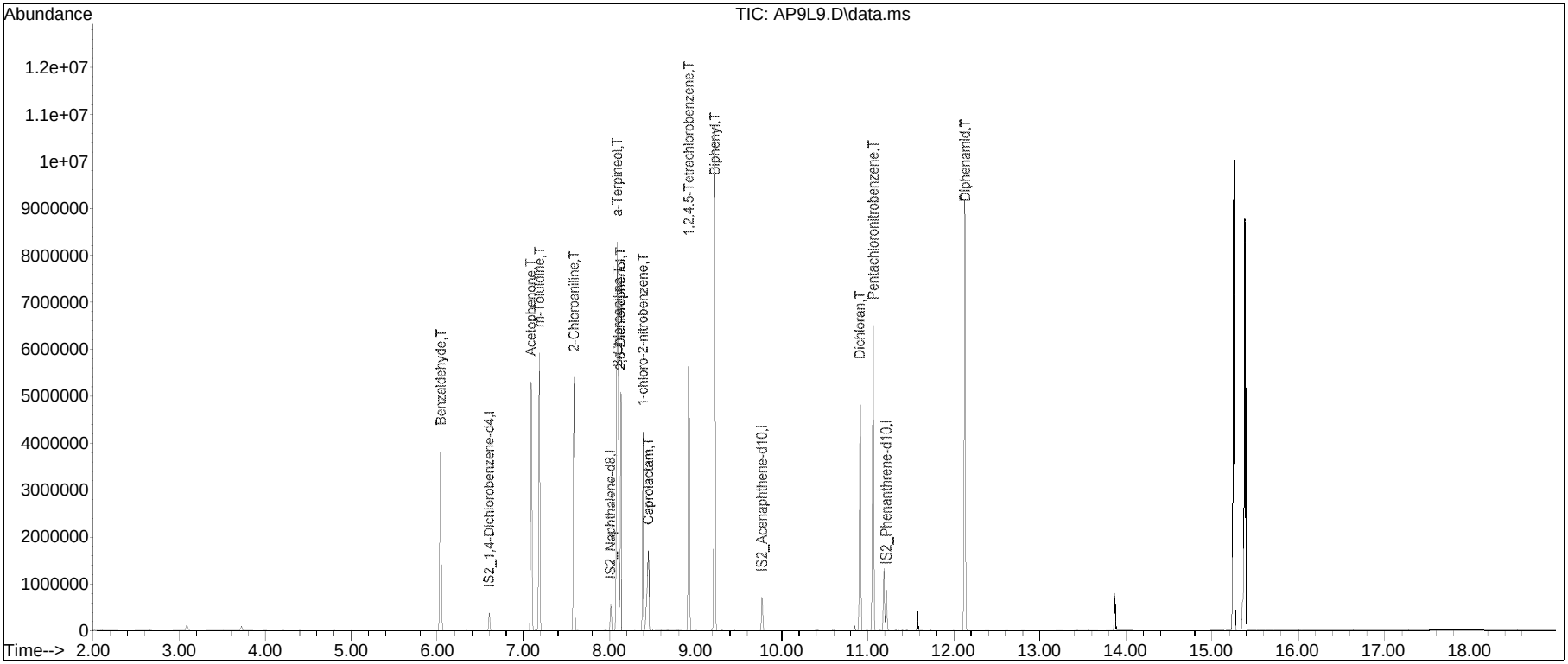
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L9.D
Acq On : 9 Oct 2024 11:40 pm
Operator : SV106:HNY
Sample : IL2,32,,AP9L50 Lot# 11013
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 11:58:21 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L9.D	Operator	: SV106:HNY
Date Inj'd	: 10/9/2024 11:40 pm	Instrument	: SV 106
Sample	: IL2,32,,AP9L50 Lot# 11013	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L8.D
Acq On : 10 Oct 2024 12:03 am
Operator : SV106:HNY
Sample : IL3,32,,AP9L25 Lot# 11014
Misc : WG1984388
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 11 11:57:24 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.598	152	76119	4.000	ug/ml		0.00
Standard Area 3 = 68577			Recovery =	111.00%			
55) IS2_Naphthalene-d8	8.010	136	286112	4.000	ug/ml	#	0.00
Standard Area 3 = 261108			Recovery =	109.58%			
83) IS2_Acenaphthene-d10	9.769	164	165535	4.000	ug/ml		0.00
Standard Area 3 = 153971			Recovery =	107.51%			
98) IS2_Phenanthrene-d10	11.216	188	330138	4.000	ug/ml		0.00
Standard Area 3 = 324206			Recovery =	101.83%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.034	105	459607	20.340	ug/ml		94
29) Acetophenone	7.086	105	868815	21.154	ug/ml	#	81
30) m-Toluidine	7.186	106	800501	21.496	ug/ml		95
31) 2-Chloroaniline	7.586	127	785161	24.138	ug/ml	#	92
56) a-Terpineol	8.081	59	523174	18.280	ug/ml	#	82
57) 3-Chloroaniline	8.092	65	244798	17.056	ug/ml		96
58) 2,6-Dichlorophenol	8.122	162	563519	21.784	ug/ml	#	86
59) 1-chloro-2-nitrobenzene	8.386	111	266535	20.678	ug/ml	#	1
60) Caprolactam	8.439	55	289640	19.282	ug/ml	#	68
61) 1,2,4,5-Tetrachloroben...	8.922	216	707308	18.029	ug/ml		98
62) Biphenyl	9.222	154	1633700	21.066	ug/ml		99
84) Dichloran	10.910	206	219136	21.427	ug/ml	#	66
85) Pentachloronitrobenzene	11.063	237	216870	19.402	ug/ml	#	80
99) Diphenamid	12.121	167	1174053	25.343	ug/ml	#	78

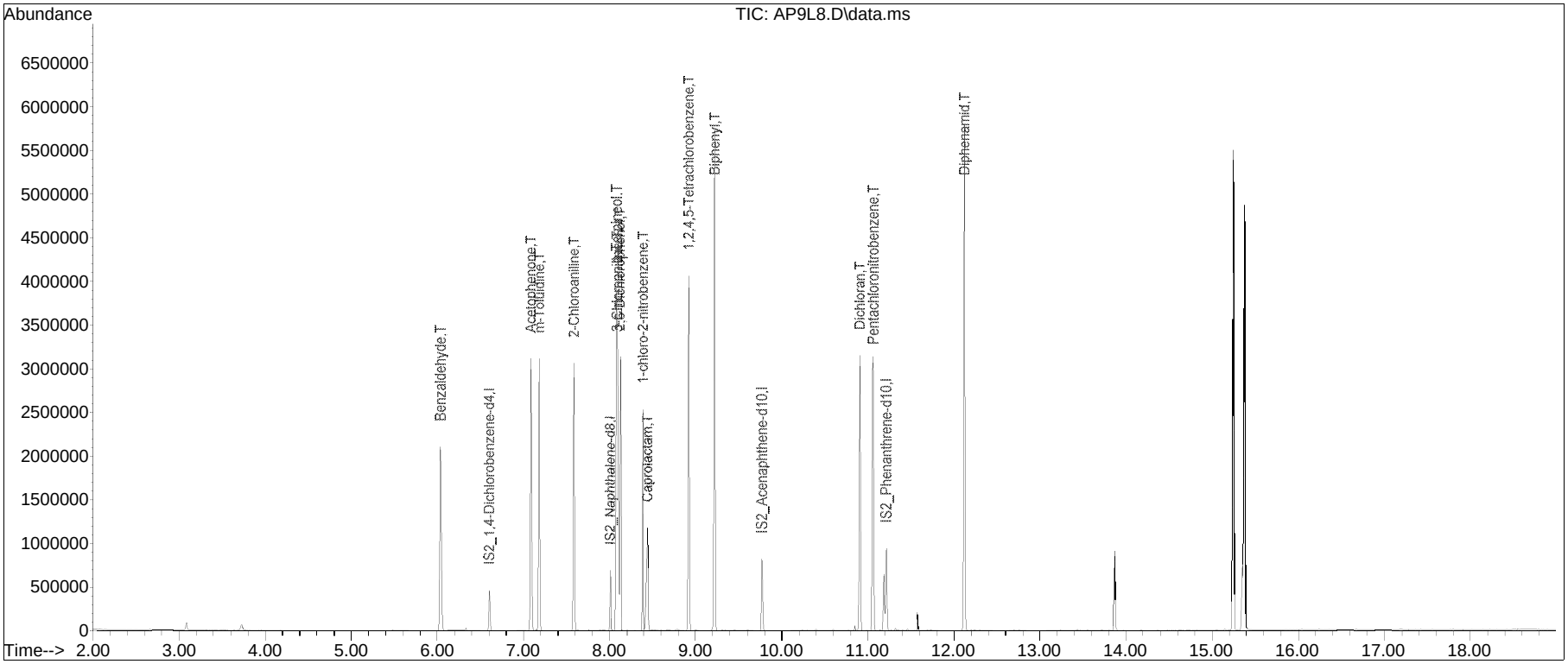
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L8.D
Acq On : 10 Oct 2024 12:03 am
Operator : SV106:HNY
Sample : IL3,32,,AP9L25 Lot# 11014
Misc : WG1984388
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 11 11:57:24 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L8.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 12:03 am	Instrument	: SV 106
Sample	: IL3,32,,AP9L25 Lot# 11014	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L7.D
Acq On : 10 Oct 2024 12:27 am
Operator : SV106:HNY
Sample : IL4,32,,AP9L10 Lot# 11015
Misc : WG1984388
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 11 11:56:42 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	70510	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery =	102.82%		
55) IS2_Naphthalene-d8	8.010	136	258176	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery =	98.88%		
83) IS2_Acenaphthene-d10	9.769	164	146958	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery =	95.45%		
98) IS2_Phenanthrene-d10	11.216	188	299480	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery =	92.37%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.039	105	173013	8.266	ug/ml	94
29) Acetophenone	7.086	105	316976	8.332	ug/ml#	81
30) m-Toluidine	7.186	106	296462	8.594	ug/ml	94
31) 2-Chloroaniline	7.586	127	290628	9.646	ug/ml#	91
56) a-Terpineol	8.080	59	189275	7.329	ug/ml#	81
57) 3-Chloroaniline	8.092	65	92888	7.172	ug/ml	99
58) 2,6-Dichlorophenol	8.122	162	206231	8.835	ug/ml#	85
59) 1-chloro-2-nitrobenzene	8.386	111	97478	8.381	ug/ml#	1
60) Caprolactam	8.427	55	100892	7.443	ug/ml#	71
61) 1,2,4,5-Tetrachloroben...	8.922	216	261881	7.398	ug/ml	97
62) Biphenyl	9.222	154	590014	8.431	ug/ml	99
84) Dichloran	10.904	206	69992	7.709	ug/ml#	66
85) Pentachloronitrobenzene	11.057	237	73196	7.376	ug/ml#	80
99) Diphenamid	12.121	167	389973	9.280	ug/ml#	78

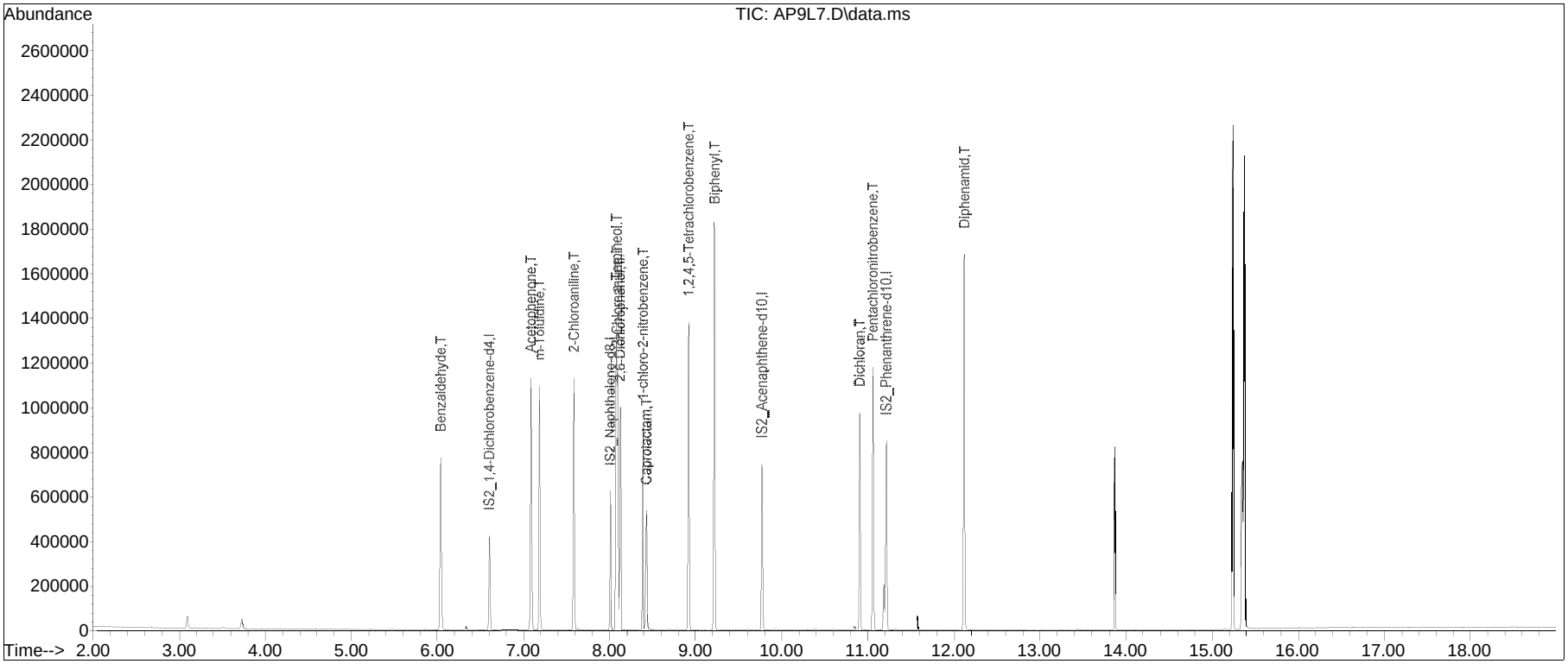
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L7.D
Acq On : 10 Oct 2024 12:27 am
Operator : SV106:HNY
Sample : IL4,32,,AP9L10 Lot# 11015
Misc : WG1984388
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 11 11:56:42 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L7.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 12:27 am	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 11015	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L6.D
Acq On : 10 Oct 2024 12:51 am
Operator : SV106:HNY
Sample : IL5,32,,AP9L5 Lot# 11016
Misc : WG1984388
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 11 11:56:07 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	68577	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery =	100.00%		
55) IS2_Naphthalene-d8	8.010	136	261108	4.000	ug/ml	0.00
Standard Area 3 = 261108			Recovery =	100.00%		
83) IS2_Acenaphthene-d10	9.769	164	153971	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery =	100.00%		
98) IS2_Phenanthrene-d10	11.216	188	324206	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.040	105	83596	4.106	ug/ml	93
29) Acetophenone	7.087	105	155076	4.191	ug/ml#	81
30) m-Toluidine	7.187	106	139582	4.160	ug/ml	96
31) 2-Chloroaniline	7.587	127	141633	4.833	ug/ml#	92
56) a-Terpineol	8.075	59	91500	3.503	ug/ml#	79
57) 3-Chloroaniline	8.092	65	45585	3.480	ug/ml	99
58) 2,6-Dichlorophenol	8.122	162	101256	4.289	ug/ml#	85
59) 1-chloro-2-nitrobenzene	8.387	111	47719	4.057	ug/ml#	1
60) Caprolactam	8.422	55	49272	3.594	ug/ml#	68
61) 1,2,4,5-Tetrachloroben...	8.922	216	129995	3.631	ug/ml	98
62) Biphenyl	9.222	154	301797	4.264	ug/ml	100
84) Dichloran	10.904	206	34290	3.605	ug/ml#	69
85) Pentachloronitrobenzene	11.057	237	38263	3.680	ug/ml#	81
99) Diphenamid	12.116	167	214966	4.725	ug/ml#	78

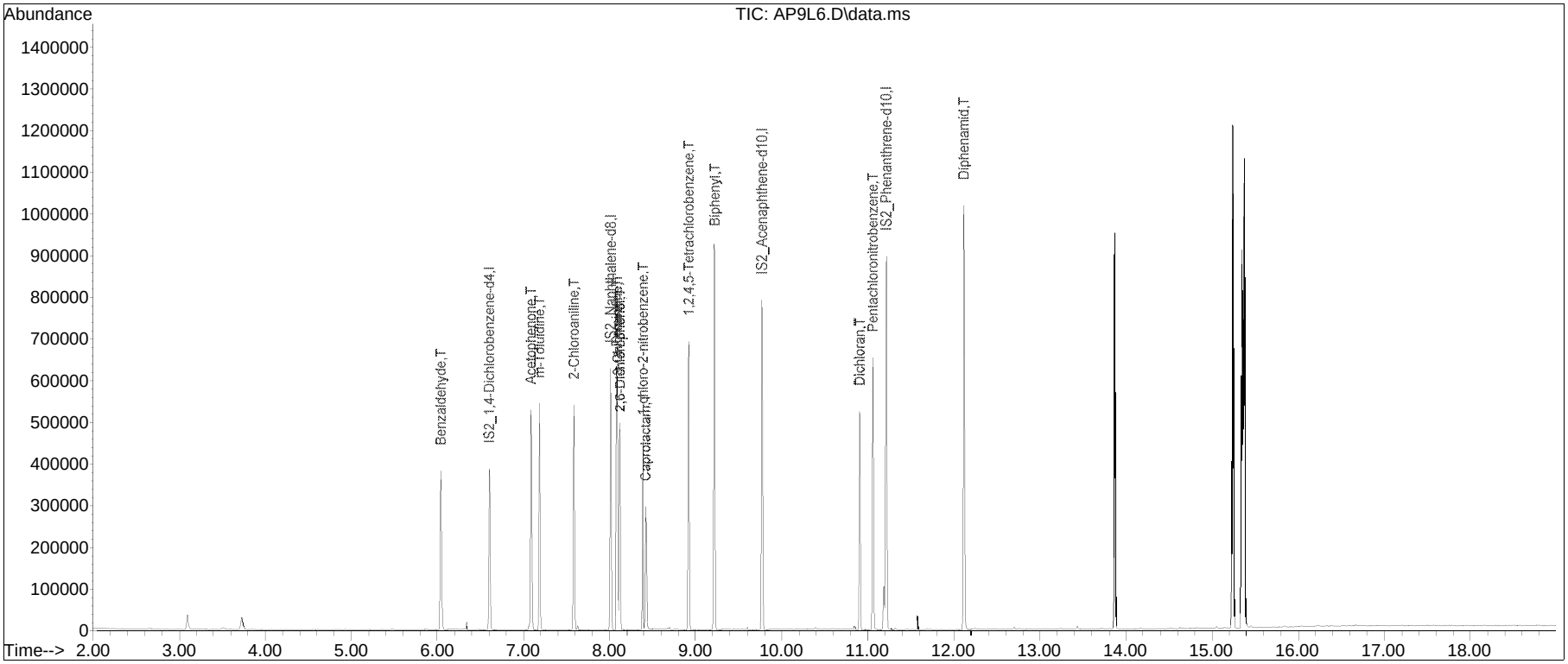
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L6.D
Acq On : 10 Oct 2024 12:51 am
Operator : SV106:HNY
Sample : IL5,32,,AP9L5 Lot# 11016
Misc : WG1984388
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 11 11:56:07 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L6.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 12:51 am	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 11016	Quant Date	: 10/11/2024 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L5.D
Acq On : 10 Oct 2024 1:15 am
Operator : SV106:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11017
Misc : WG1984388
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 11:55:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.604	152	62773	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery = 91.54%			
55) IS2_Naphthalene-d8	8.010	136	241460	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery = 92.48%			
83) IS2_Acenaphthene-d10	9.769	164	153739	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery = 99.85%			
98) IS2_Phenanthrene-d10	11.216	188	326212	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery = 100.62%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.040	105	39695	2.130	ug/ml	93
29) Acetophenone	7.092	105	73641	2.174	ug/ml#	81
30) m-Toluidine	7.187	106	64099	2.087	ug/ml	97
31) 2-Chloroaniline	7.586	127	66454	2.477	ug/ml#	91
56) a-Terpineol	8.075	59	43736	1.811	ug/ml#	83
57) 3-Chloroaniline	8.092	65	20806	1.718	ug/ml	96
58) 2,6-Dichlorophenol	8.116	162	46348	2.123	ug/ml#	86
59) 1-chloro-2-nitrobenzene	8.386	111	22713	2.088	ug/ml#	1
60) Caprolactam	8.422	55	22322	1.761	ug/ml#	70
61) 1,2,4,5-Tetrachloroben...	8.922	216	61732	1.865	ug/ml	98
62) Biphenyl	9.222	154	143630	2.195	ug/ml	100
84) Dichloran	10.904	206	16013	1.686	ug/ml#	68
85) Pentachloronitrobenzene	11.057	237	17687	1.704	ug/ml#	81
99) Diphenamid	12.116	167	98097	2.143	ug/ml#	79

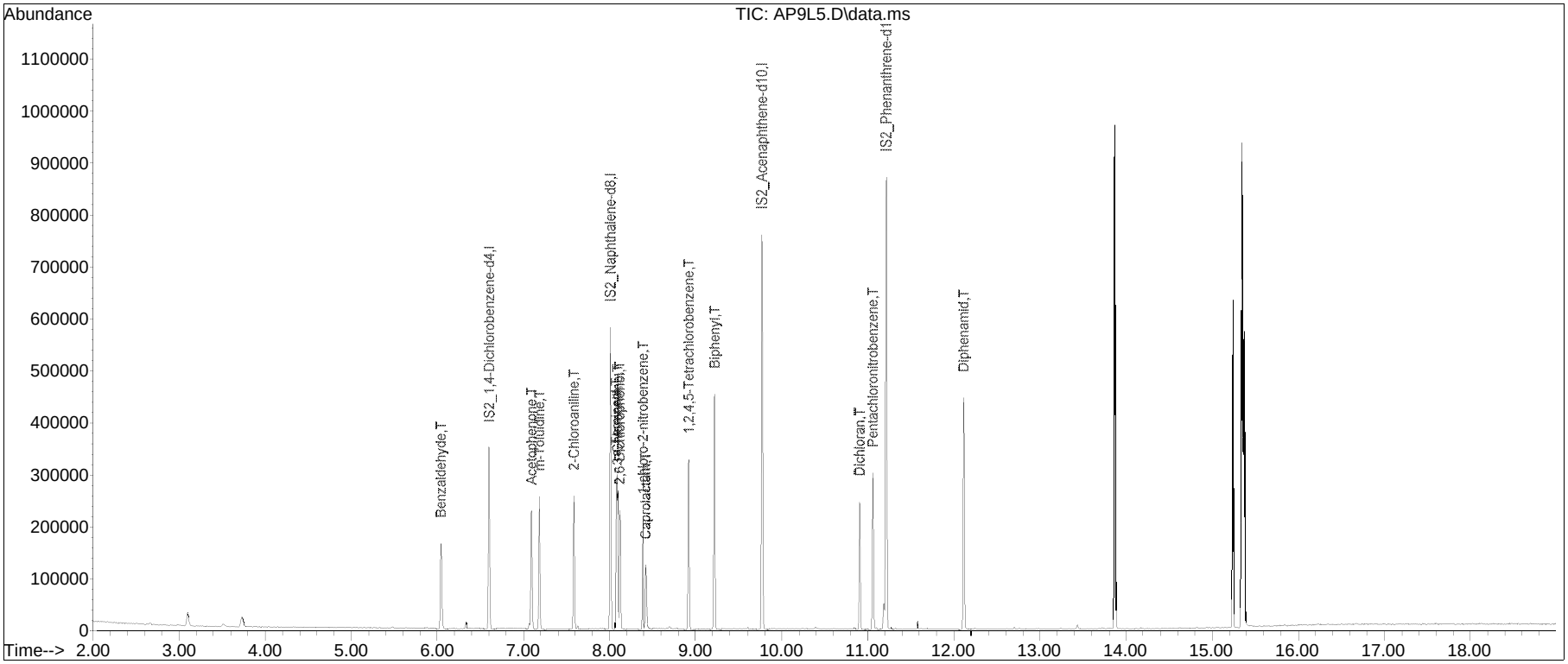
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L5.D
Acq On : 10 Oct 2024 1:15 am
Operator : SV106:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11017
Misc : WG1984388
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 11:55:34 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L5.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 1:15 am	Instrument	: SV 106
Sample	: IL6,32,,AP9L2.5 Lot# 11017	Quant Date	: 10/11/2024 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L4.D
Acq On : 10 Oct 2024 1:38 am
Operator : SV106:HNY
Sample : IL7,32,,AP9L1 Lot# 11018
Misc : WG1984388
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 11 11:55:03 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.598	152	71821	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery =	104.73%		
55) IS2_Naphthalene-d8	8.010	136	270768	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery =	103.70%		
83) IS2_Acenaphthene-d10	9.769	164	156722	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery =	101.79%		
98) IS2_Phenanthrene-d10	11.216	188	329147	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery =	101.52%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.045	105	15605	0.732	ug/ml	97
29) Acetophenone	7.092	105	28880	0.745	ug/ml#	81
30) m-Toluidine	7.186	106	24264	0.691	ug/ml	94
31) 2-Chloroaniline	7.586	127	26285	0.856	ug/ml#	90
56) a-Terpineol	8.080	59	15944	0.589	ug/ml#	74
57) 3-Chloroaniline	8.092	65	8091	0.596	ug/ml	97
58) 2,6-Dichlorophenol	8.116	162	17713	0.724	ug/ml#	83
59) 1-chloro-2-nitrobenzene	8.386	111	8568	0.702	ug/ml#	1
60) Caprolactam	8.422	55	8406	0.591	ug/ml#	78
61) 1,2,4,5-Tetrachloroben...	8.922	216	24850	0.669	ug/ml	96
62) Biphenyl	9.222	154	56095	0.764	ug/ml	99
84) Dichloran	10.904	206	5312	0.549	ug/ml#	73
85) Pentachloronitrobenzene	11.057	237	6373	0.602	ug/ml#	80
99) Diphenamid	12.115	167	37161	0.805	ug/ml#	78

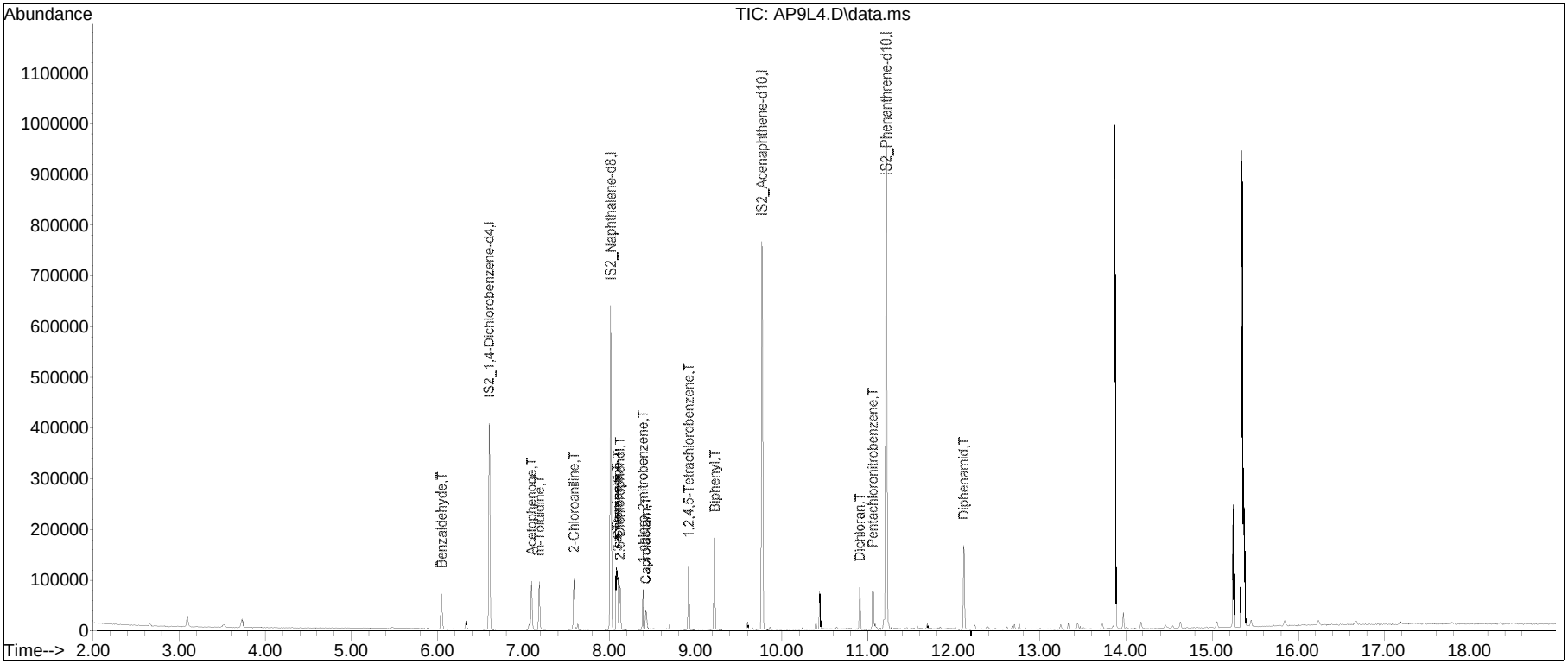
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L4.D
Acq On : 10 Oct 2024 1:38 am
Operator : SV106:HNY
Sample : IL7,32,,AP9L1 Lot# 11018
Misc : WG1984388
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 11 11:55:03 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L4.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 1:38 am	Instrument	: SV 106
Sample	: IL7,32,,AP9L1 Lot# 11018	Quant Date	: 10/11/2024 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L3.D
Acq On : 10 Oct 2024 2:02 am
Operator : SV106:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11019
Misc : WG1984388
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 11 11:54:32 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.604	152	68000	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery = 99.16%			
55) IS2_Naphthalene-d8	8.010	136	250467	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery = 95.92%			
83) IS2_Acenaphthene-d10	9.769	164	148065	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery = 96.16%			
98) IS2_Phenanthrene-d10	11.216	188	314272	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery = 96.94%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.045	105	8456	0.419	ug/ml	96
29) Acetophenone	7.092	105	16443	0.448	ug/ml#	85
30) m-Toluidine	7.187	106	11868	0.357	ug/ml	92
31) 2-Chloroaniline	7.587	127	13791	0.475	ug/ml#	90
56) a-Terpineol	8.081	59	8414	0.336	ug/ml#	67
57) 3-Chloroaniline	8.092	65	4590	0.365	ug/ml	91
58) 2,6-Dichlorophenol	8.122	162	9353	0.413	ug/ml#	83
59) 1-chloro-2-nitrobenzene	8.386	111	4720	0.418	ug/ml#	1
60) Caprolactam	8.422	55	4161	0.316	ug/ml#	66
61) 1,2,4,5-Tetrachloroben...	8.922	216	13865	0.404	ug/ml	94
62) Biphenyl	9.222	154	29826	0.439	ug/ml	97
84) Dichloran	10.904	206	2936	0.321	ug/ml#	66
85) Pentachloronitrobenzene	11.057	237	3571	0.357	ug/ml#	78
99) Diphenamid	12.116	167	18211	0.413	ug/ml#	80

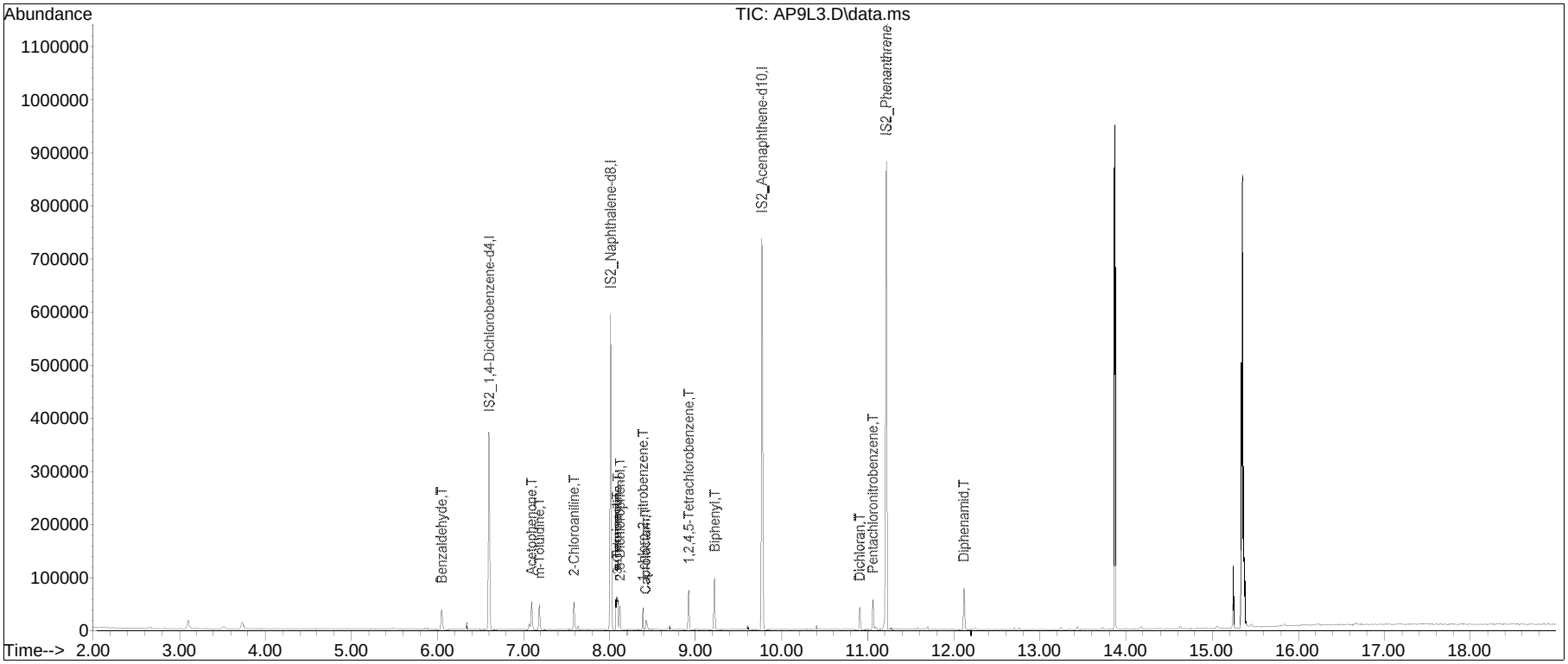
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L3.D
Acq On : 10 Oct 2024 2:02 am
Operator : SV106:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11019
Misc : WG1984388
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 11 11:54:32 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L3.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 2:02 am	Instrument	: SV 106
Sample	: IL8,32,,AP9L0.5 Lot# 11019	Quant Date	: 10/11/2024 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L2.D
Acq On : 10 Oct 2024 2:25 am
Operator : SV106:HNY
Sample : IL9,32,,AP9L0.2 Lot# 11020
Misc : WG1984388
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 11 11:54:00 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.598	152	67059	4.000	ug/ml		0.00
Standard Area 3 = 68577			Recovery = 97.79%				
55) IS2_Naphthalene-d8	8.010	136	247872	4.000	ug/ml	#	0.00
Standard Area 3 = 261108			Recovery = 94.93%				
83) IS2_Acenaphthene-d10	9.769	164	150701	4.000	ug/ml		0.00
Standard Area 3 = 153971			Recovery = 97.88%				
98) IS2_Phenanthrene-d10	11.216	188	312804	4.000	ug/ml		0.00
Standard Area 3 = 324206			Recovery = 96.48%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.045	105	2842	0.143	ug/ml		100
29) Acetophenone	7.093	105	5987	0.165	ug/ml	#	91
30) m-Toluidine	7.187	106	2431	0.074	ug/ml	#	94
31) 2-Chloroaniline	7.587	127	5084	0.177	ug/ml	#	90
56) a-Terpineol	8.081	59	3312	0.134	ug/ml	#	86
57) 3-Chloroaniline	8.092	65	1322	0.106	ug/ml		83
58) 2,6-Dichlorophenol	8.122	162	3498	0.156	ug/ml	#	82
59) 1-chloro-2-nitrobenzene	8.387	111	1705	0.153	ug/ml	#	1
60) Caprolactam	8.434	55	1502M1	0.115	ug/ml		
61) 1,2,4,5-Tetrachloroben...	8.922	216	4806	0.141	ug/ml		95
62) Biphenyl	9.222	154	10475	0.156	ug/ml		93
84) Dichloran	10.904	206	961	0.103	ug/ml	#	81
85) Pentachloronitrobenzene	11.057	237	1221	0.120	ug/ml	#	83
99) Diphenamid	12.116	167	7187	0.164	ug/ml	#	73

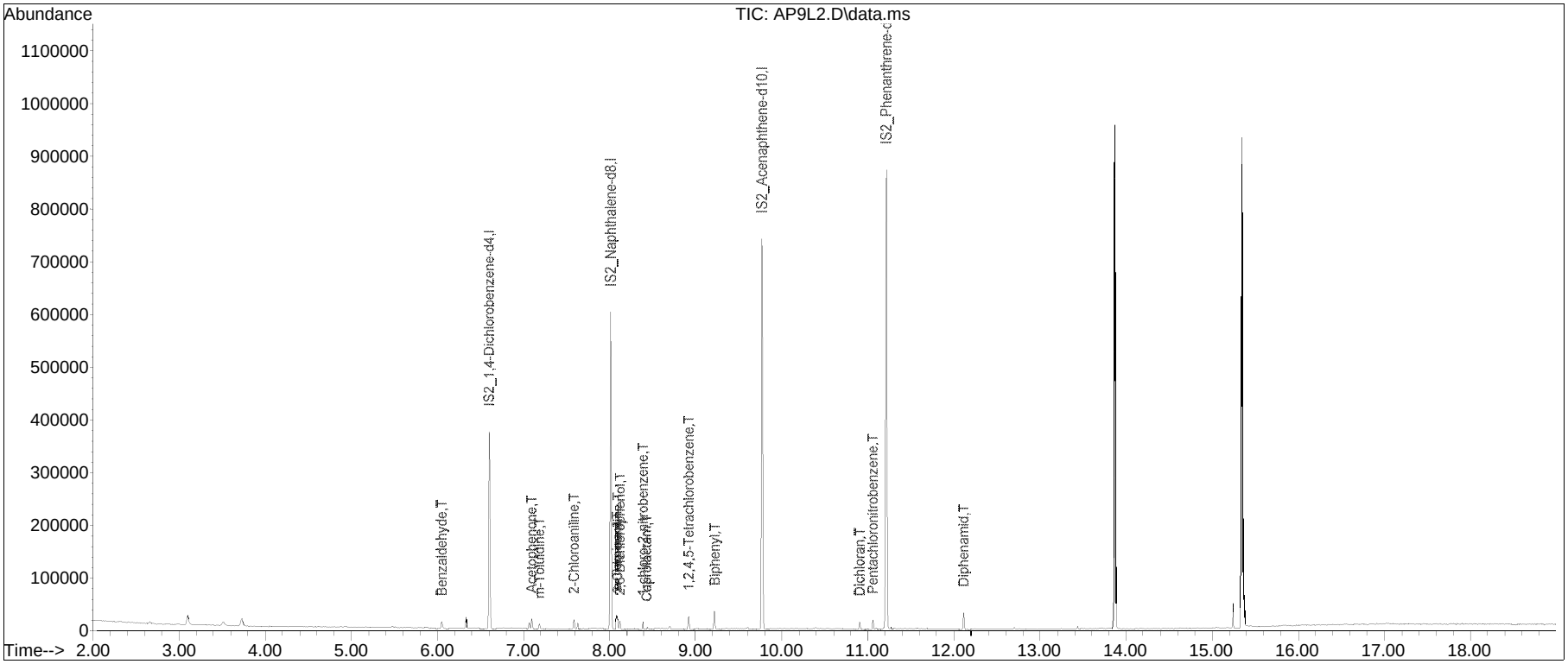
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L2.D
Acq On : 10 Oct 2024 2:25 am
Operator : SV106:HNY
Sample : IL9,32,,AP9L0.2 Lot# 11020
Misc : WG1984388
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 11 11:54:00 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

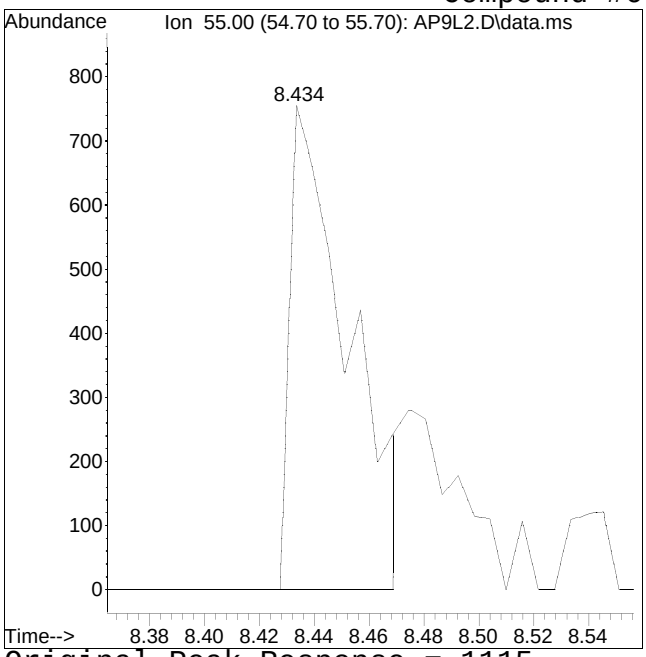
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

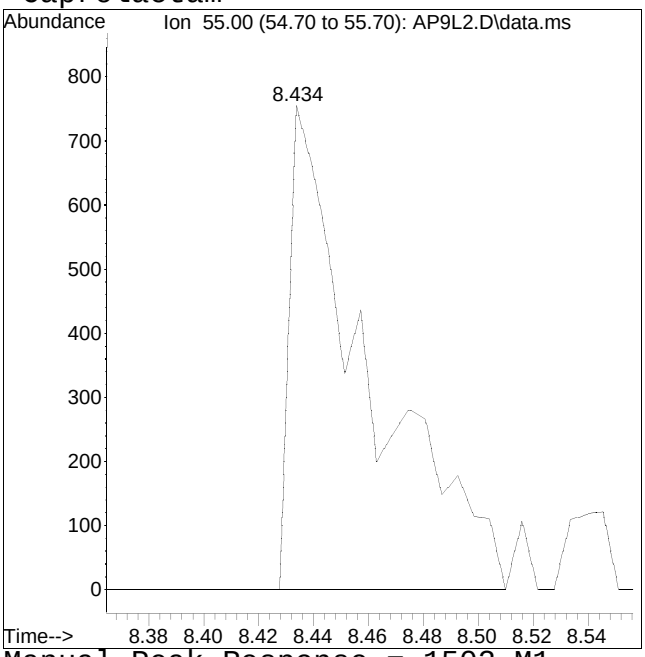


Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : AP9L2.D Operator : SV106:HNY
Date Inj'd : 10/10/2024 2:25 am Instrument : SV 106
Sample : IL9,32,,AP9L0.2 Lot# 11020Quant Date : 10/11/2024 11:15 am

Compound #60: Caprolactam





Original Peak Response = 1115 Manual Peak Response = 1502 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L1.D
Acq On : 10 Oct 2024 2:49 am
Operator : SV106:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11021
Misc : WG1984388
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 11 11:53:01 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.598	152	70009	4.000	ug/ml		0.00
Standard Area 3 = 68577			Recovery = 102.09%				
55) IS2_Naphthalene-d8	8.010	136	259789	4.000	ug/ml	#	0.00
Standard Area 3 = 261108			Recovery = 99.49%				
83) IS2_Acenaphthene-d10	9.769	164	152390	4.000	ug/ml		0.00
Standard Area 3 = 153971			Recovery = 98.97%				
98) IS2_Phenanthrene-d10	11.216	188	307694	4.000	ug/ml		0.00
Standard Area 3 = 324206			Recovery = 94.91%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	6.051	105	1355	0.065	ug/ml		92
29) Acetophenone	7.092	105	3024	0.080	ug/ml	#	79
30) m-Toluidine	7.192	106	500	0.015	ug/ml	#	11
31) 2-Chloroaniline	7.586	127	2385	0.080	ug/ml	#	89
56) a-Terpineol	8.081	59	1789	0.069	ug/ml		88
57) 3-Chloroaniline	8.092	65	707	0.054	ug/ml		85
58) 2,6-Dichlorophenol	8.122	162	1585	0.067	ug/ml	#	82
59) 1-chloro-2-nitrobenzene	8.386	111	830	0.071	ug/ml	#	1
60) Caprolactam	0.000		0	N.D.			
61) 1,2,4,5-Tetrachloroben...	8.922	216	2353	0.066	ug/ml		97
62) Biphenyl	9.222	154	5193	0.074	ug/ml		94
84) Dichloran	10.904	206	503	0.053	ug/ml		81
85) Pentachloronitrobenzene	11.057	237	777	0.076	ug/ml	#	7
99) Diphenamid	12.116	167	3550	0.082	ug/ml	#	75

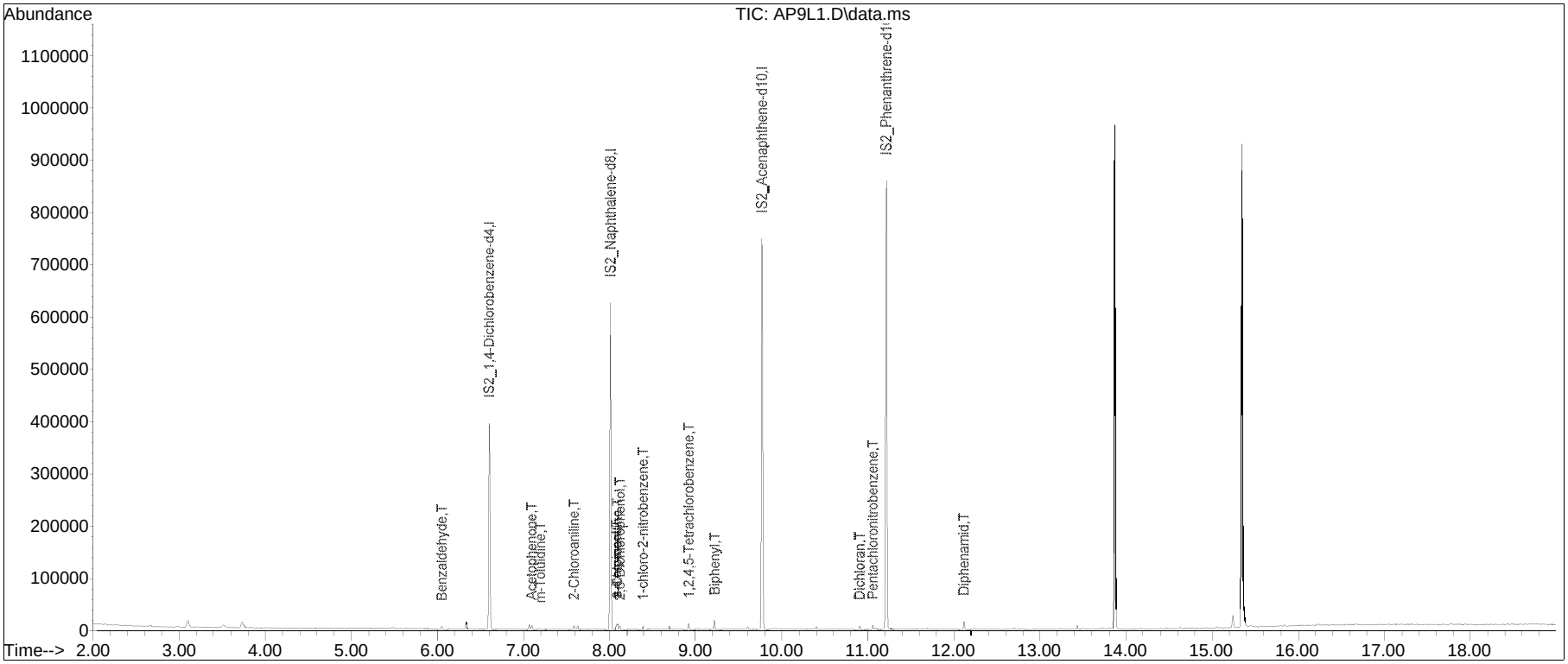
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9L1.D
Acq On : 10 Oct 2024 2:49 am
Operator : SV106:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11021
Misc : WG1984388
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 11 11:53:01 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 11:11:41 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9L1.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 2:49 am	Instrument	: SV 106
Sample	: IL10,32,,AP9L0.1 Lot# 1102	Quant Date	: 10/11/2024 11:15 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	99	0.00
2	t	n-Nitrosodimethylamine		0.760	0.773	-1.7	101	0.00
3	t	Pyridine		1.219	1.269	-4.1	104	0.00
4	S	2-Fluorophenol		1.245	1.223	1.8	99	0.00
5	T	Aniline		1.771	1.817	-2.6	99	0.00
6	t	2-Chlorophenol		1.365	1.381	-1.2	99	0.00
7	S	Phenol-d6		1.498	1.497	0.1	101	0.00
8	T	Phenol		1.555	1.590	-2.3	100	0.00
9	T	Bis(2-chloroethyl)ether		1.280	1.286	-0.5	99	0.00
10	T	1,3-Dichlorobenzene		1.669	1.677	-0.5	102	0.00
11	T	1,4-Dichlorobenzene		1.700	1.683	1.0	101	0.00
12	T	1,2-Dichlorobenzene		1.630	1.606	1.5	99	0.00
13	t	Benzyl alcohol		1.060	1.078	-1.7	100	0.00
14	T	Bis(2-chloroisopropyl)ether		2.014	2.003	0.5	101	0.00
15	T	2-Methylphenol		1.123	1.137	-1.2	99	0.00
16	T	Hexachloroethane		0.614	0.614	0.0	101	0.00
17	T	n-Nitrosodi-n-propylamine		0.940	0.946	-0.6	98	0.00
18	T	3-Methylphenol/4-Methylphen		1.225	1.245	-1.6	99	0.00
19	S	Nitrobenzene-d5		1.359	1.398	-2.9	101	0.00
20	T	Nitrobenzene		1.389	1.408	-1.4	101	0.00
21	T	Isophorone		2.416	2.493	-3.2	100	0.00
22	T	2-Nitrophenol		0.713	0.720	-1.0	95	0.00
23	T	2,4-Dimethylphenol		1.119	1.080	3.5	95	0.00
24	T	Bis(2-chloroethoxy)methane		1.614	1.673	-3.7	101	0.00
25	T	2,4-Dichlorophenol		1.250	1.287	-3.0	98	0.00
26	T	1,2,4-Trichlorobenzene		1.449	1.440	0.6	101	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	97	0.00
36	T	Naphthalene		1.129	1.129	0.0	101	0.00
37	T	Benzoic Acid	*	5.000	4.755	4.9	93	0.00
38	T	4-Chloroaniline		0.127	0.131	-3.1	99	0.00
39	T	Hexachlorobutadiene		0.239	0.246	-2.9	100	0.00
40	T	p-Chloro-m-cresol		0.296	0.303	-2.4	97	0.00
41	T	2-Methylnaphthalene		0.752	0.781	-3.9	102	0.00
42	T	1-Methylnaphthalene		0.243	0.250	-2.9	103	0.00
43	T	Hexachlorocyclopentadiene		0.262	0.282	-7.6	105	0.00
44	T	2,4,6-Trichlorophenol		0.275	0.278	-1.1	95	0.00
45	T	2,4,5-Trichlorophenol		0.285	0.294	-3.2	99	0.00
46	S	2-Fluorobiphenyl		0.926	0.958	-3.5	102	0.00

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.785	0.792	-0.9	100	0.00
48	T	2-Nitroaniline		0.223	0.235	-5.4	98	0.00
49	T	1,4-Dinitrobenzene		0.114	0.120	-5.3	96	0.00
50	T	1,3-Dinitrobenzene		0.125	0.137	-9.6	98	0.00
51	T	Dimethyl phthalate		0.915	0.968	-5.8	100	0.00
52	T	Acenaphthylene		1.170	1.253	-7.1	104	0.00
53	T	2,6-Dinitrotoluene		0.186	0.207	-11.3	99	0.00
54	T	1,2-Dinitrobenzene		0.081	0.087	-7.4	99	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	97	0.00
64	T	3-Nitroaniline		0.323	0.349	-8.0	101	0.00
65	T	Acenaphthene		1.157	1.189	-2.8	104	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.890	2.2	92	0.00
67	T	Dibenzofuran		1.872	1.841	1.7	101	0.00
68	T	2,4-Dinitrotoluene		0.419	0.446	-6.4	99	0.00
69	T	4-Nitrophenol		0.239	0.247	-3.3	94	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.390	0.422	-8.2	101	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.385	0.413	-7.3	100	0.00
72	T	Diethyl phthalate		1.518	1.519	-0.1	99	0.00
73	T	Fluorene		1.462	1.457	0.3	99	0.00
74	T	4-Chlorophenyl phenyl ether		0.750	0.742	1.1	100	0.00
75	T	4-Nitroaniline		0.329	0.337	-2.4	98	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.554	8.9	95	0.00
77	T	NDPA/DPA		1.261	1.306	-3.6	101	0.00
78	T	Azobenzene		1.232	1.248	-1.3	98	0.00
79	S	2,4,6-Tribromophenol		0.226	0.229	-1.3	97	0.00
80	T	4-Bromophenyl phenyl ether		0.465	0.464	0.2	99	0.00
81	T	Hexachlorobenzene		0.526	0.512	2.7	100	0.00
82	T	Pentachlorophenol		0.319	0.320	-0.3	95	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	97	0.00
89	T	Phenanthrene		1.174	1.168	0.5	101	0.00
90	T	Anthracene		1.170	1.177	-0.6	102	0.00
91	T	Carbazole		1.054	1.069	-1.4	99	0.00
92	T	Di-n-butylphthalate		1.319	1.407	-6.7	101	0.00
93	T	Fluoranthene		1.353	1.408	-4.1	101	0.00
94	T	Benzidine		0.776	0.858	-10.6	99	0.00
95	T	Pyrene		1.428	1.499	-5.0	103	0.00
96	S	4-Terphenyl-d14		1.073	1.135	-5.8	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.555	0.604	-8.8	98	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	98	0.00
105	T	Benzo(a)anthracene	1.379	1.351	2.0	101	0.00
106	T	3,3'-Dichlorobenzidine	0.453	0.477	-5.3	100	0.00
107	T	Chrysene	1.324	1.265	4.5	99	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.828	0.908	-9.7	100	0.00
109	T	Di-n-octylphthalate	1.373	1.522	-10.9	99	0.00
110	T	Benzo(b)fluoranthene	1.331	1.301	2.3	99	0.00
111	T	Benzo(k)fluoranthene	1.240	1.307	-5.4	102	0.00
112	T	Benzo(a)pyrene	1.155	1.237	-7.1	105	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	97	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.213	1.215	-0.2	97	0.00
115	T	Dibenzo(a,h)anthracene	1.153	1.219	-5.7	101	0.00
116	T	Benzo(ghi)perylene	1.080	1.119	-3.6	100	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
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CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.604	152	68684	4.000	ug/ml	0.00
Standard Area 1 = 69296			Recovery = 99.12%			
35) IS1_Naphthalene-d8	8.010	136	257423	4.000	ug/ml	# 0.00
Standard Area 1 = 264583			Recovery = 97.29%			
63) IS1_Acenaphthene-d10	9.775	164	161843	4.000	ug/ml	0.00
Standard Area 1 = 166975			Recovery = 96.93%			
88) IS1_Phenanthrene-d10	11.216	188	316695	4.000	ug/ml	0.00
Standard Area 1 = 326455			Recovery = 97.01%			
104) IS1_Chrysene-d12	13.868	240	347282	4.000	ug/ml	0.00
Standard Area 1 = 353807			Recovery = 98.16%			
113) IS1_Perylene-d12	15.345	264	367125	4.000	ug/ml	0.00
Standard Area 1 = 379737			Recovery = 96.68%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.775	112	105042	4.915	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 245.75%#			
7) Phenol-d6	6.228	99	128496	4.996	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 249.80%#			
19) Nitrobenzene-d5	7.245	82	119995	5.141	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 514.10%#			
46) 2-Fluorobiphenyl	9.128	172	308242	5.174	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 517.40%#			
79) 2,4,6-Tribromophenol	10.545	330	46238	5.050	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 252.50%#			
96) 4-Terphenyl-d14	12.804	244	449426	5.288	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 528.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.305	74	66355	5.083	ug/ml#	67
3) Pyridine	2.340	79	108986	5.208	ug/ml#	63
5) Aniline	6.198	93	156034	5.131	ug/ml	97
6) 2-Chlorophenol	6.340	128	118551	5.057	ug/ml	91
8) Phenol	6.245	94	136545	5.115	ug/ml	95
9) Bis(2-chloroethyl)ether	6.322	93	110450	5.024	ug/ml	87
10) 1,3-Dichlorobenzene	6.528	146	143984	5.025	ug/ml	97
11) 1,4-Dichlorobenzene	6.622	146	144474	4.950	ug/ml	97
12) 1,2-Dichlorobenzene	6.798	146	137894	4.926	ug/ml	97

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
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Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.798	79	92581	5.086	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.975	45	171977	4.974	ug/ml#	58
15) 2-Methylphenol	6.963	108	97643	5.062	ug/ml	96
16) Hexachloroethane	7.181	117	52744	5.004	ug/ml#	59
17) n-Nitrosodi-n-propylamine	7.122	70	81185	5.029	ug/ml	96
18) 3-Methylphenol/4-Methy...	7.145	108	106865	5.080	ug/ml	98
20) Nitrobenzene	7.269	77	120866	5.068	ug/ml	96
21) Isophorone	7.545	82	214041	5.159	ug/ml	98
22) 2-Nitrophenol	7.622	139	61782	5.049	ug/ml	88
23) 2,4-Dimethylphenol	7.716	107	92715	4.827	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.810	93	143604	5.181	ug/ml	100
25) 2,4-Dichlorophenol	7.881	162	110484	5.148	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.963	180	123600	4.968	ug/ml	94
36) Naphthalene	8.034	128	363286	4.999	ug/ml	100
37) Benzoic Acid	7.804	105	65401	4.755	ug/ml	94
38) 4-Chloroaniline	8.110	65	42184	5.175	ug/ml#	72
39) Hexachlorobutadiene	8.198	225	79167	5.152	ug/ml	99
40) p-Chloro-m-cresol	8.633	107	97611	5.120	ug/ml	93
41) 2-Methylnaphthalene	8.745	142	251305	5.189	ug/ml	96
42) 1-Methylnaphthalene	8.839	115	80597	5.144	ug/ml	95
43) Hexachlorocyclopentadiene	8.922	237	90794	5.387	ug/ml	98
44) 2,4,6-Trichlorophenol	9.039	196	89438	5.050	ug/ml	99
45) 2,4,5-Trichlorophenol	9.069	196	94454	5.151	ug/ml	99
47) 2-Chloronaphthalene	9.228	162	254917	5.049	ug/ml	96
48) 2-Nitroaniline	9.333	138	75716	5.268	ug/ml#	83
49) 1,4-Dinitrobenzene	9.469	168	38619	5.263	ug/ml#	75
50) 1,3-Dinitrobenzene	9.545	168	44206	5.496	ug/ml#	1
51) Dimethyl phthalate	9.539	163	311435	5.291	ug/ml#	99
52) Acenaphthylene	9.628	152	403177	5.356	ug/ml	99
53) 2,6-Dinitrotoluene	9.581	165	66602	5.566	ug/ml#	73
54) 1,2-Dinitrobenzene	9.628	168	28077	5.413	ug/ml#	1
64) 3-Nitroaniline	9.739	138	70653	5.406	ug/ml#	92
65) Acenaphthene	9.804	154	240578	5.139	ug/ml	93
66) 2,4-Dinitrophenol	9.839	184	38145	4.890	ug/ml#	84
67) Dibenzofuran	9.975	168	372461	4.918	ug/ml	96
68) 2,4-Dinitrotoluene	9.975	165	90317	5.325	ug/ml	88
69) 4-Nitrophenol	9.922	65	50008	5.173	ug/ml#	80
70) 2,3,5,6-Tetrachlorophenol	10.063	232	85379	5.405	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	10.104	232	83604	5.362	ug/ml	97
72)	Diethyl phthalate	10.233	149	307265	5.003	ug/ml	99
73)	Fluorene	10.310	166	294821	4.984	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.328	204	150045	4.942	ug/ml	89
75)	4-Nitroaniline	10.333	138	68272	5.134	ug/ml#	82
76)	4,6-Dinitro-o-cresol	10.369	198	51882	4.554	ug/ml#	60
77)	NDPA/DPA	10.439	169	264255	5.178	ug/ml	99
78)	Azobenzene	10.475	77	252540	5.065	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.798	248	93831	4.989	ug/ml#	84
81)	Hexachlorobenzene	10.851	284	103516	4.861	ug/ml#	83
82)	Pentachlorophenol	11.045	266	64691	5.020	ug/ml	99
89)	Phenanthrene	11.239	178	462471	4.977	ug/ml	99
90)	Anthracene	11.286	178	465973	5.029	ug/ml	99
91)	Carbazole	11.451	167	423253	5.073	ug/ml	99
92)	Di-n-butylphthalate	11.839	149	556869	5.333	ug/ml	98
93)	Fluoranthene	12.398	202	557525	5.203	ug/ml#	92
94)	Benzidine	12.545	184	339703	5.530	ug/ml#	95
95)	Pyrene	12.616	202	593234	5.248	ug/ml	100
97)	Butyl benzyl phthalate	13.327	149	238944	5.443	ug/ml	87
105)	Benzo(a)anthracene	13.857	228	586338	4.896	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.857	252	206912	5.260	ug/ml#	97
107)	Chrysene	13.898	228	549197	4.779	ug/ml	100
108)	Bis(2-ethylhexyl)phtha...	13.968	149	394308	5.485	ug/ml#	93
109)	Di-n-octylphthalate	14.651	149	660821	5.543	ug/ml#	73
110)	Benzo(b)fluoranthene	14.974	252	564800	4.888	ug/ml#	95
111)	Benzo(k)fluoranthene	15.004	252	567319	5.271	ug/ml#	94
112)	Benzo(a)pyrene	15.292	252	537065	5.356	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.357	276	557701M6	5.011	ug/mL	
115)	Dibenzo(a,h)anthracene	16.380	278	559514	5.286	ug/ml#	91
116)	Benzo(ghi)perylene	16.621	276	513605	5.182	ug/ml#	87

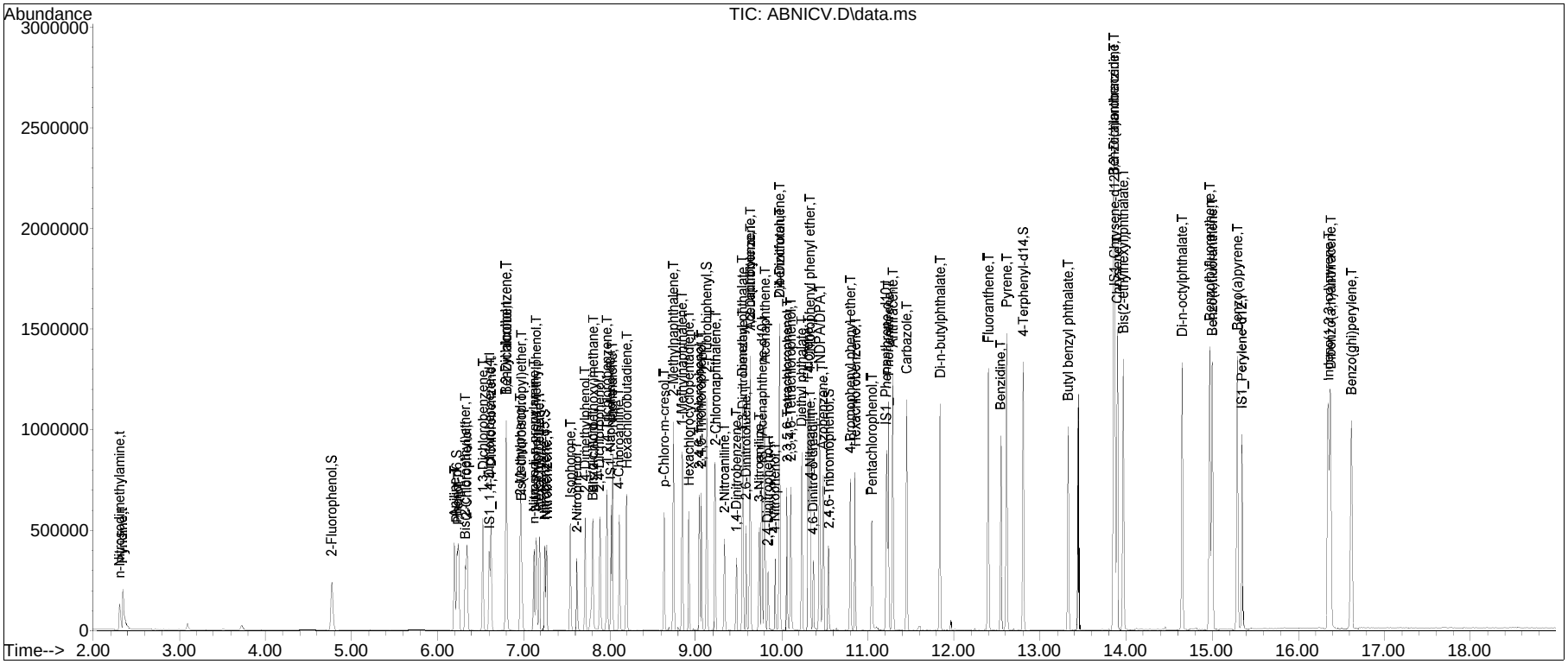
(#) = qualifier out of range (m) = manual integration (+) = signals summed

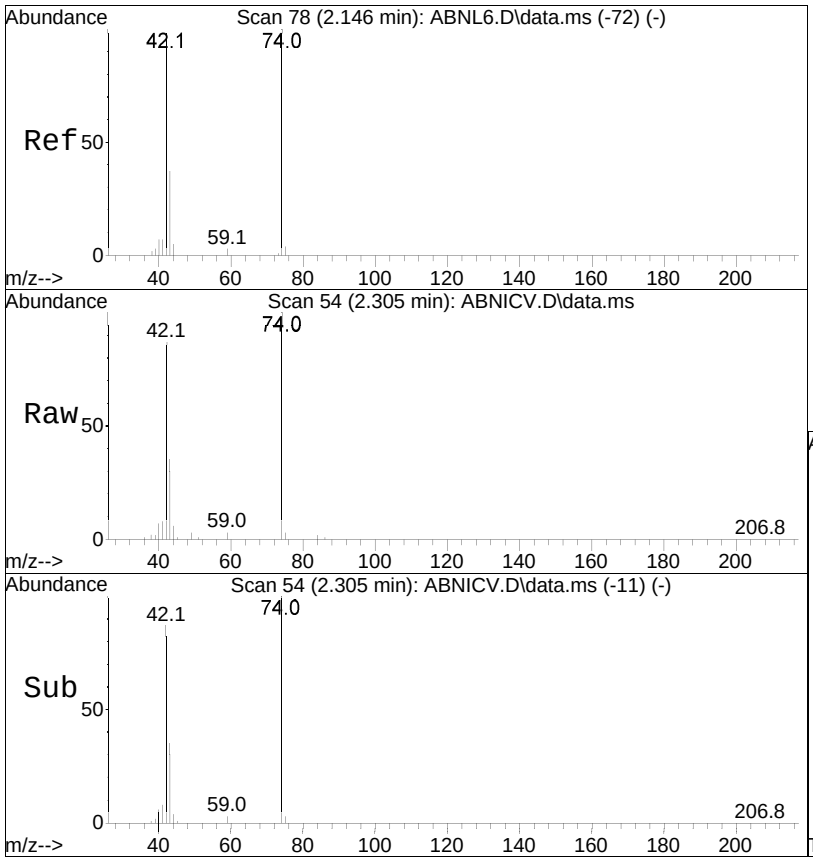
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ABNICV.D
Acq On : 10 Oct 2024 3:13 am
Operator : SV106:HNY
Sample : CQICV1,32,,ABNICV Lot# 11031
Misc : WG1984388
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 16 05:38:56 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 16 05:40:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

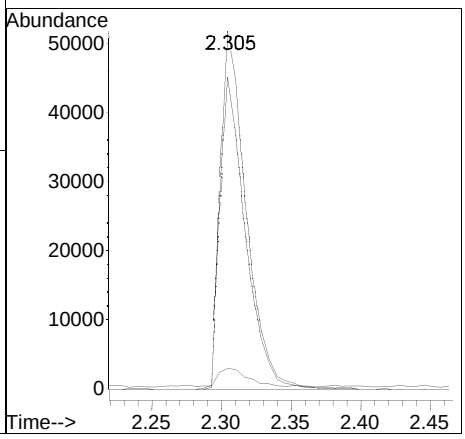


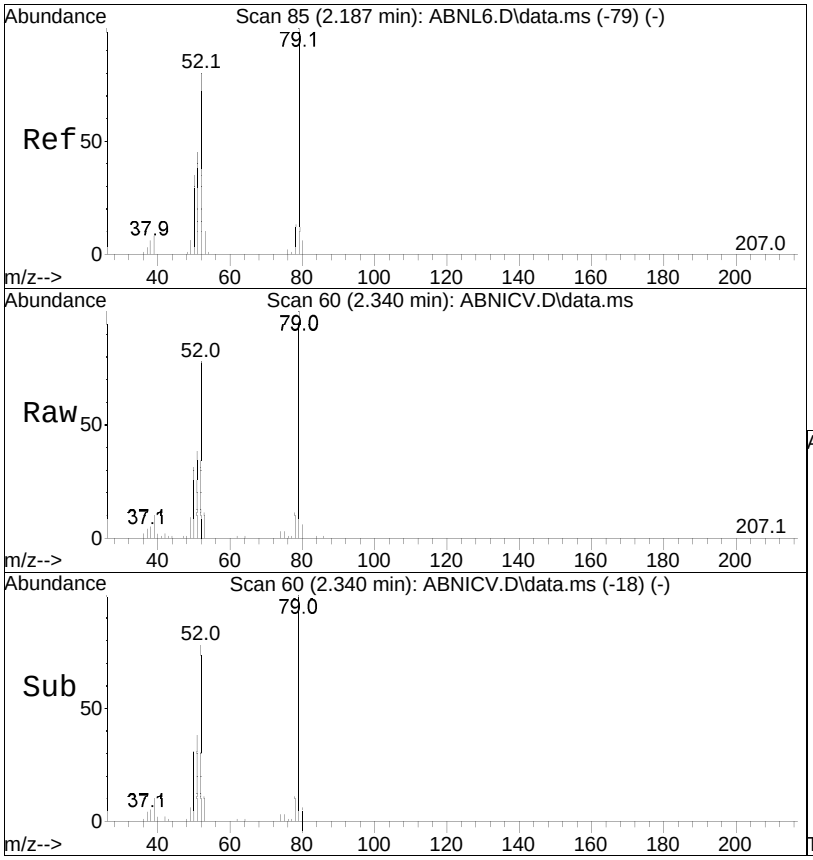


#2
n-Nitrosodimethylamine
Concen: 5.08 ug/ml
RT: 2.305 min Scan# 54
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 74 Resp: 66355

Ion	Ratio	Lower	Upper
74	100		
42	85.7	100.0	150.0#
44	5.5	6.7	10.1#

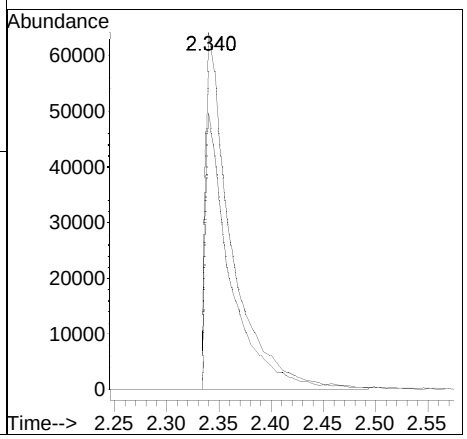


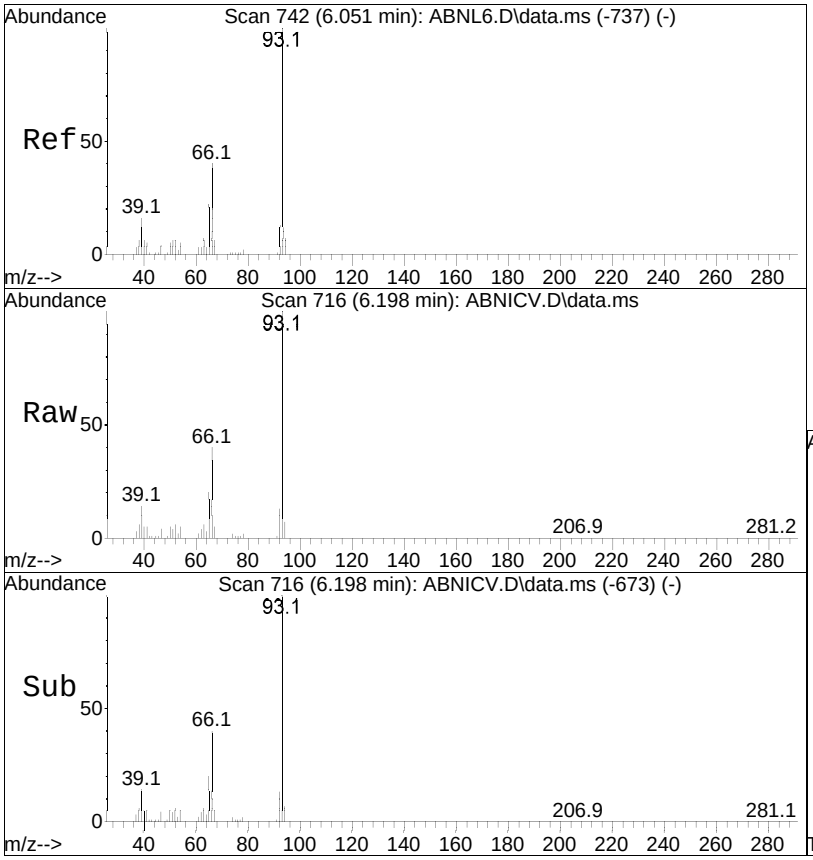


#3
Pyridine
Concen: 5.21 ug/ml
RT: 2.340 min Scan# 60
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 79 Resp: 108986

Ion	Ratio	Lower	Upper
79	100		
52	76.1	93.1	139.7#

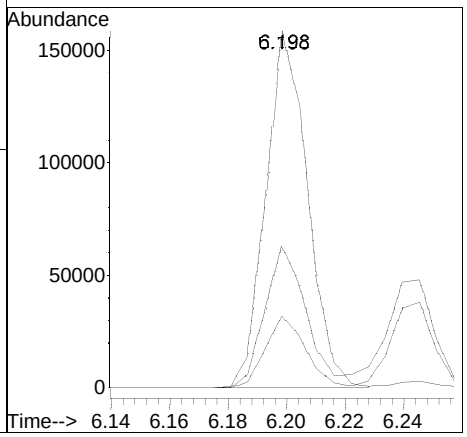


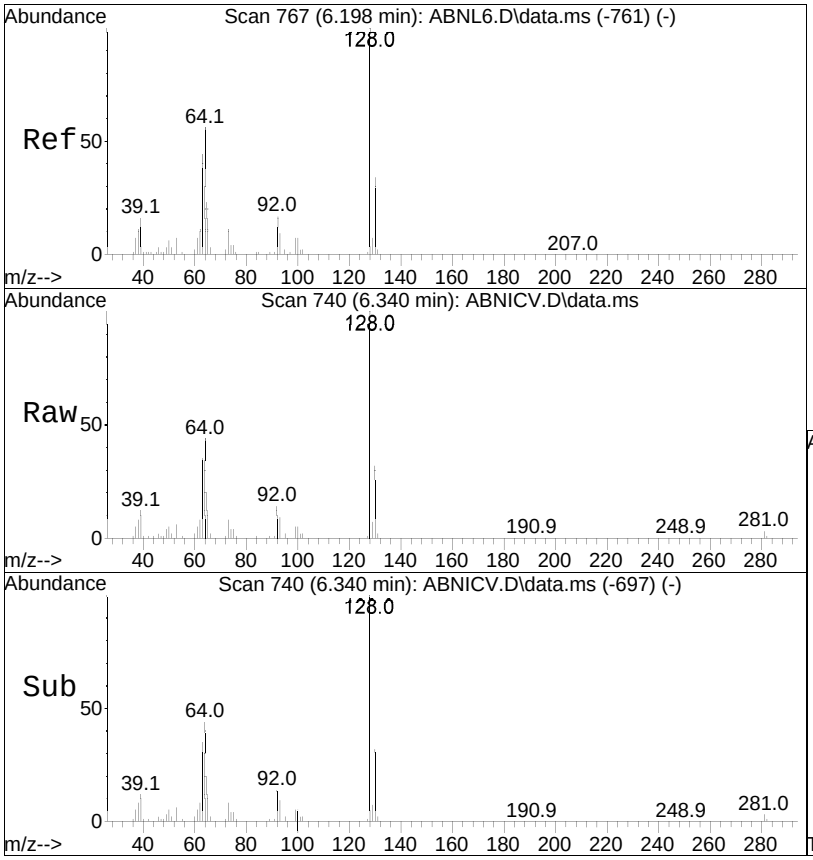


#5
Aniline
Concen: 5.13 ug/ml
RT: 6.198 min Scan# 716
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 93 Resp: 156034

Ion	Ratio	Lower	Upper
93	100		
66	39.1	32.6	49.0
65	19.7	17.6	26.4

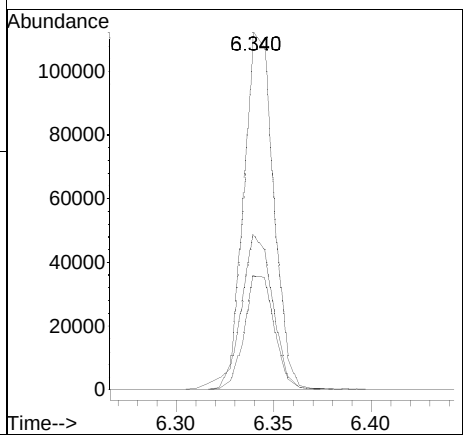


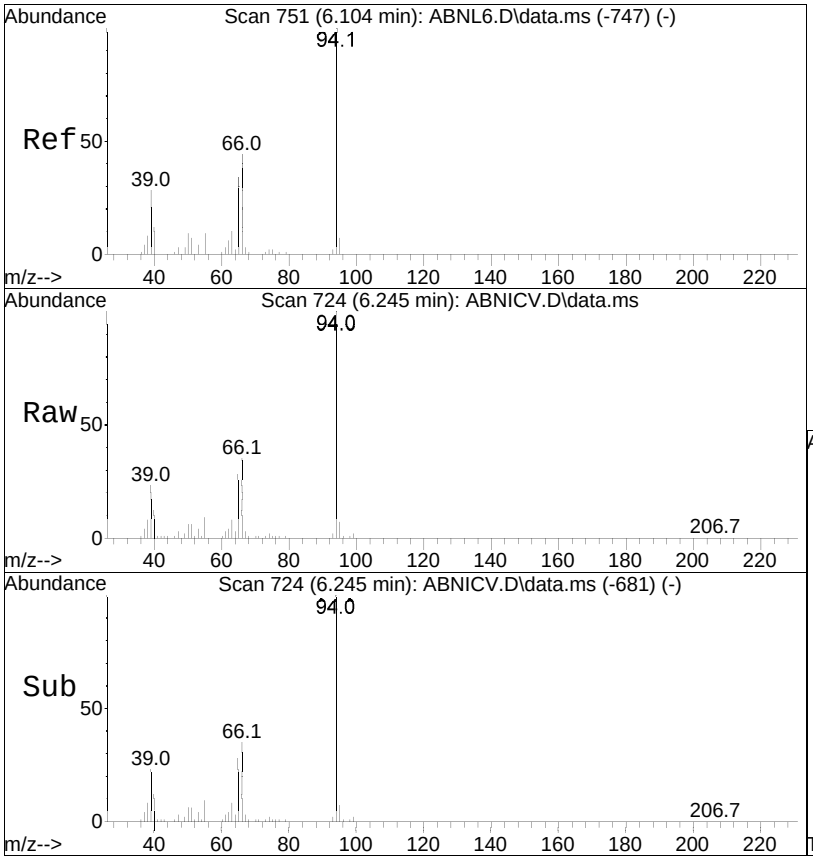


#6
2-Chlorophenol
Concen: 5.06 ug/ml
RT: 6.340 min Scan# 740
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:128 Resp: 118551

Ion	Ratio	Lower	Upper
128	100		
64	46.4	45.1	67.7
130	32.2	26.2	39.4

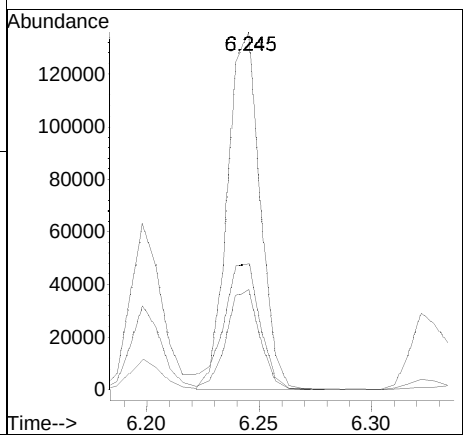


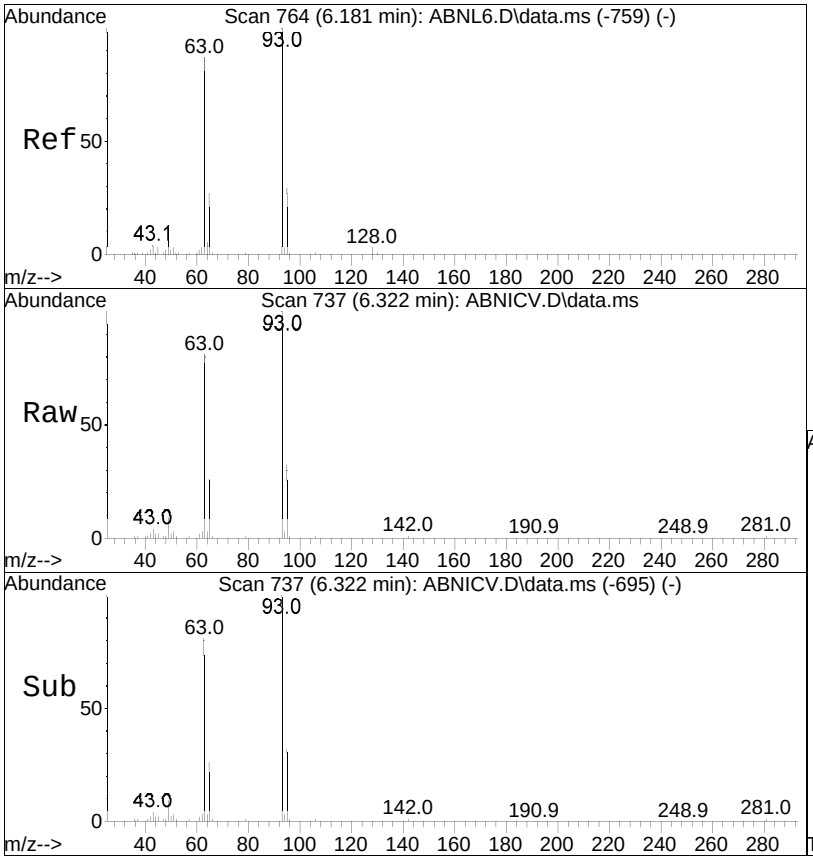


#8
Phenol
Concen: 5.12 ug/ml
RT: 6.245 min Scan# 724
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 94 Resp: 136545

Ion	Ratio	Lower	Upper
94	100		
65	28.7	26.0	39.0
66	39.5	33.8	50.8

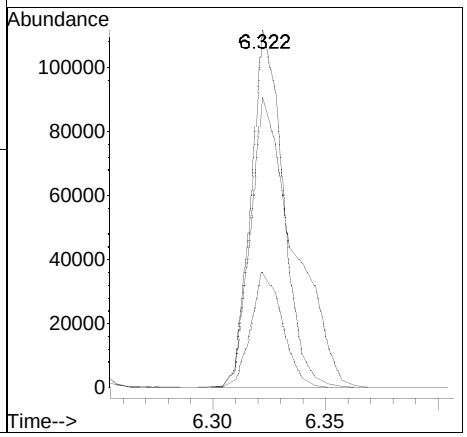


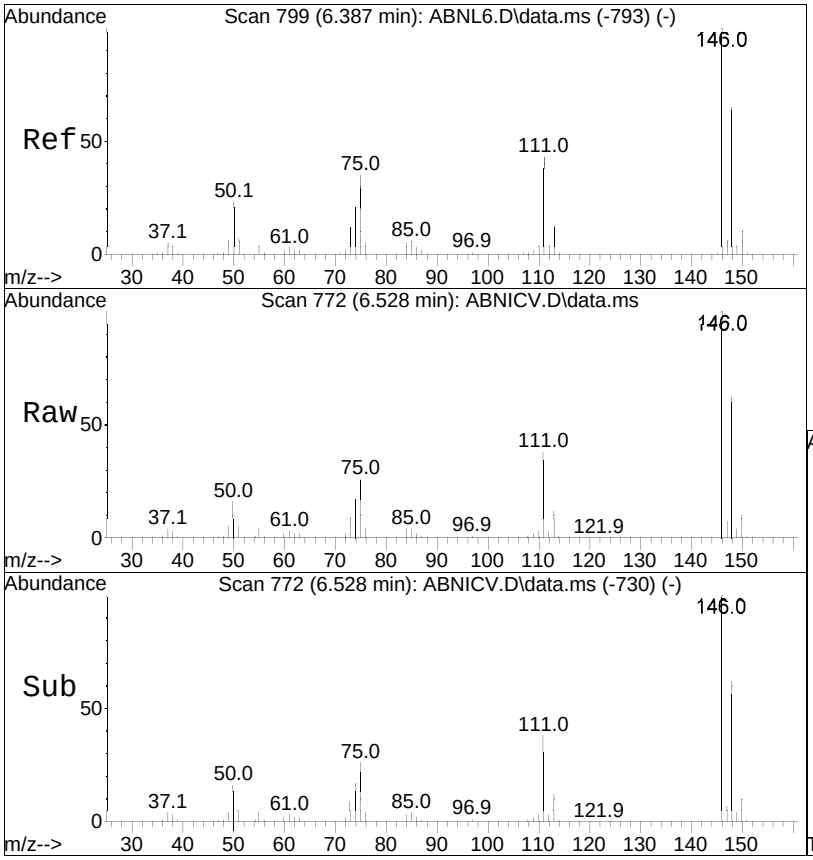


#9
Bis(2-chloroethyl)ether
Concen: 5.02 ug/ml
RT: 6.322 min Scan# 737
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 93 Resp: 110450

Ion	Ratio	Lower	Upper
93	100		
63	110.3	74.6	111.8
95	31.7	25.9	38.9

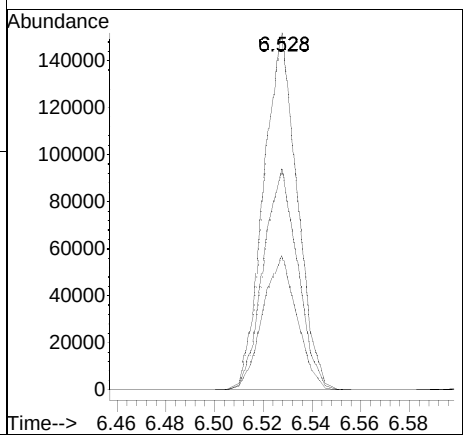


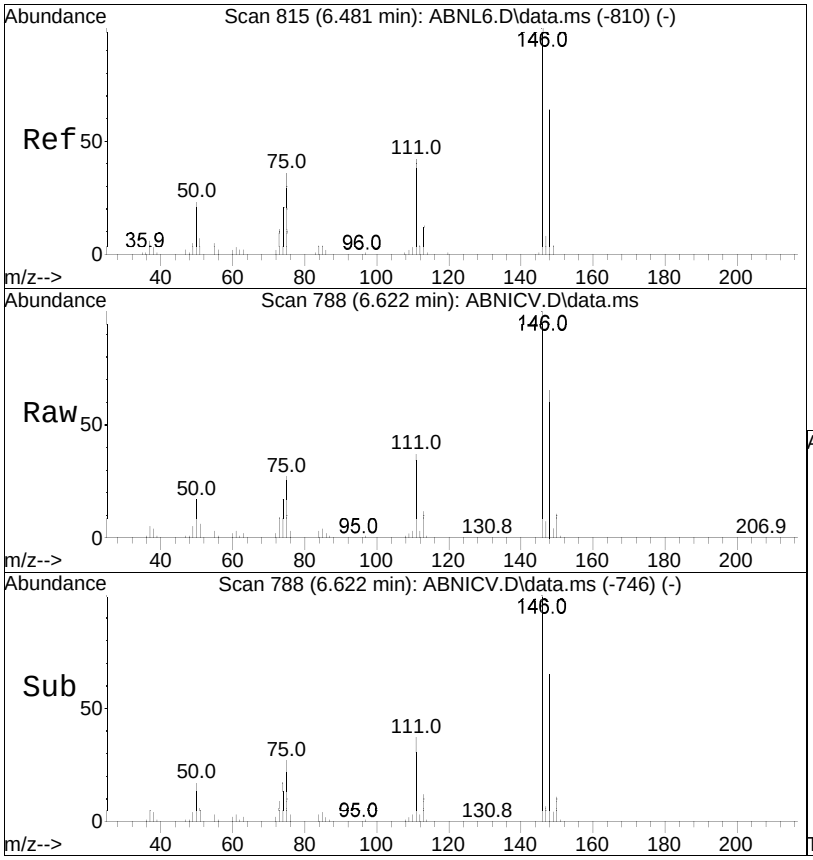


#10
1,3-Dichlorobenzene
Concen: 5.02 ug/ml
RT: 6.528 min Scan# 772
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:146 Resp: 143984

Ion	Ratio	Lower	Upper
146	100		
111	38.6	34.3	51.5
148	63.2	50.8	76.2

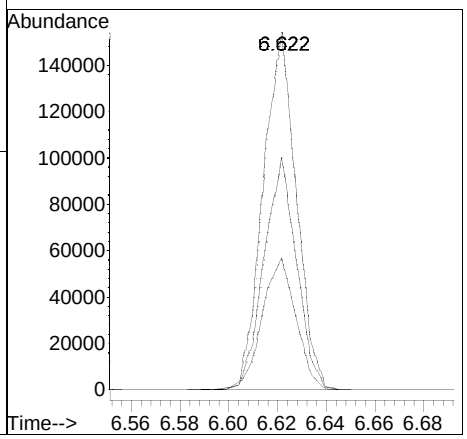


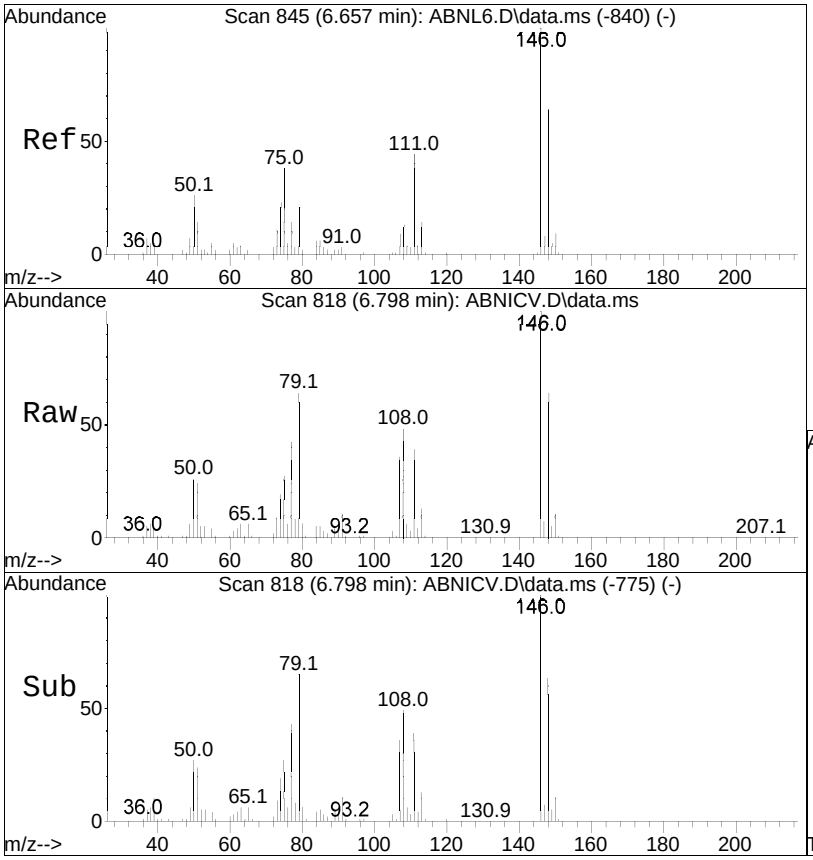


#11
1,4-Dichlorobenzene
Concen: 4.95 ug/ml
RT: 6.622 min Scan# 788
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:146 Resp: 144474

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.7	76.1
111	37.9	33.4	50.0

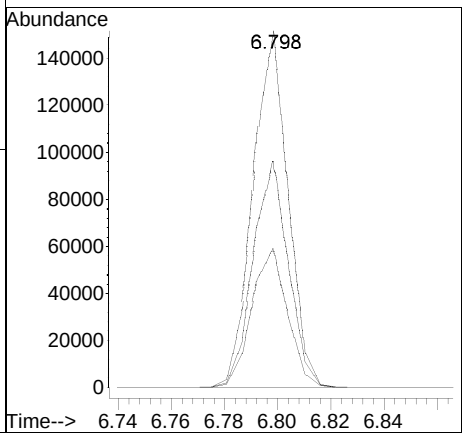


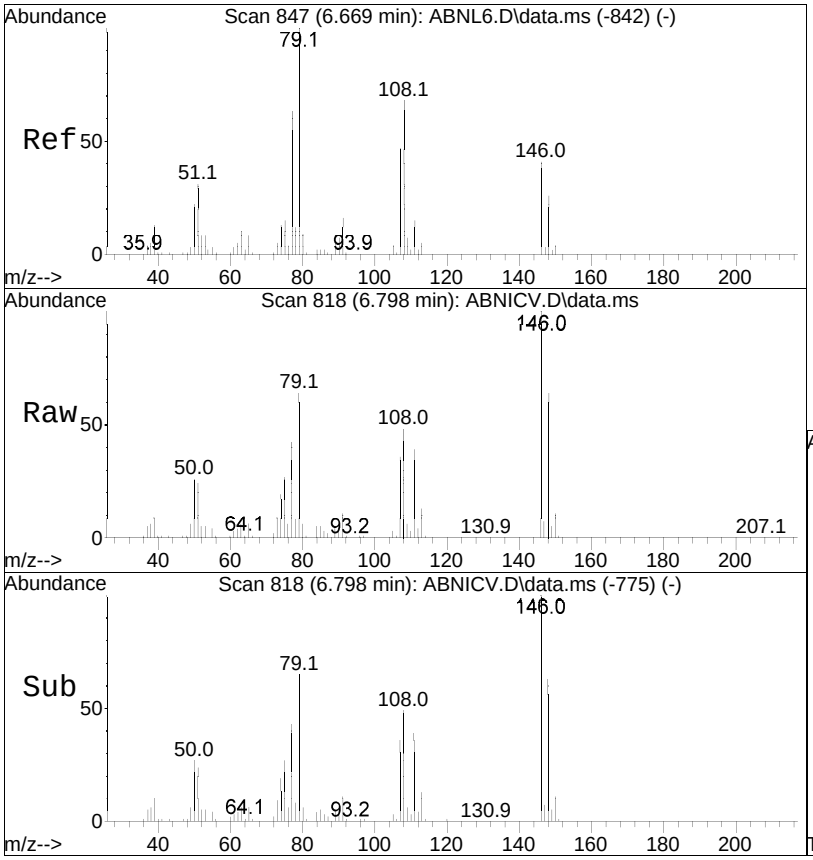


#12
1,2-Dichlorobenzene
Concen: 4.93 ug/ml
RT: 6.798 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:146 Resp: 137894

Ion	Ratio	Lower	Upper
146	100		
111	40.2	34.6	52.0
148	64.1	50.2	75.4

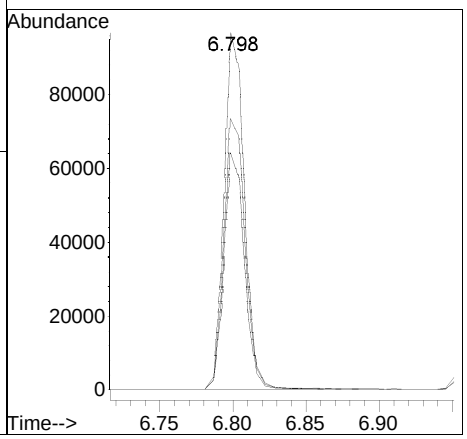


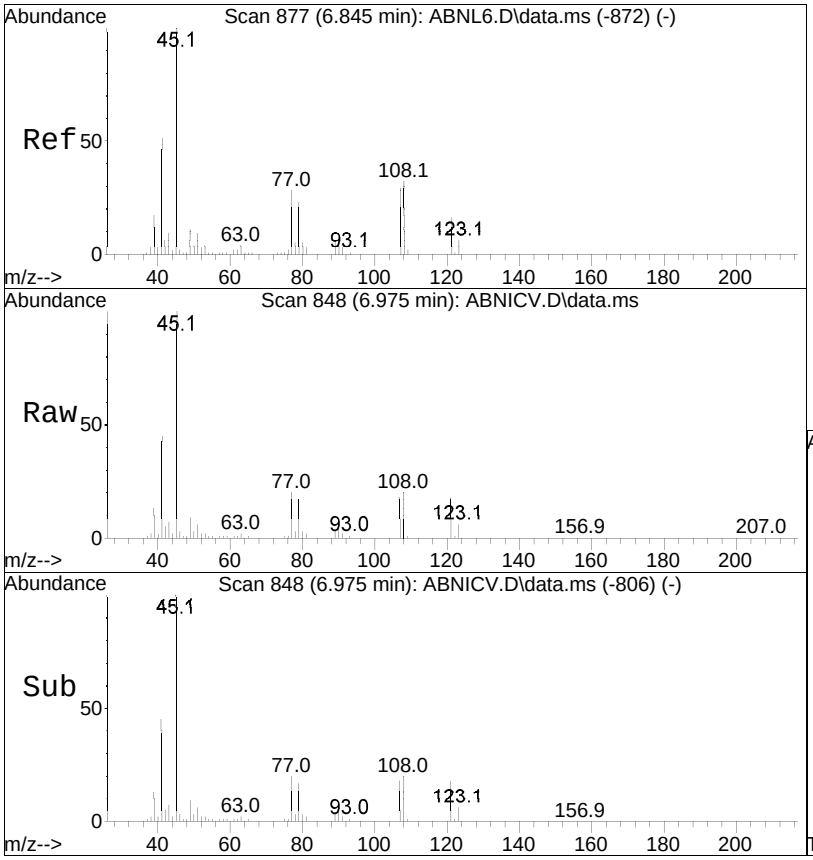


#13
Benzyl alcohol
Concen: 5.09 ug/ml
RT: 6.798 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 79 Resp: 92581

Ion	Ratio	Lower	Upper
79	100		
77	66.4	54.9	82.3
108	78.6	63.1	94.7

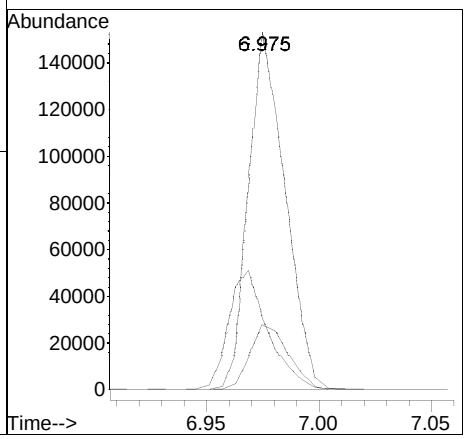


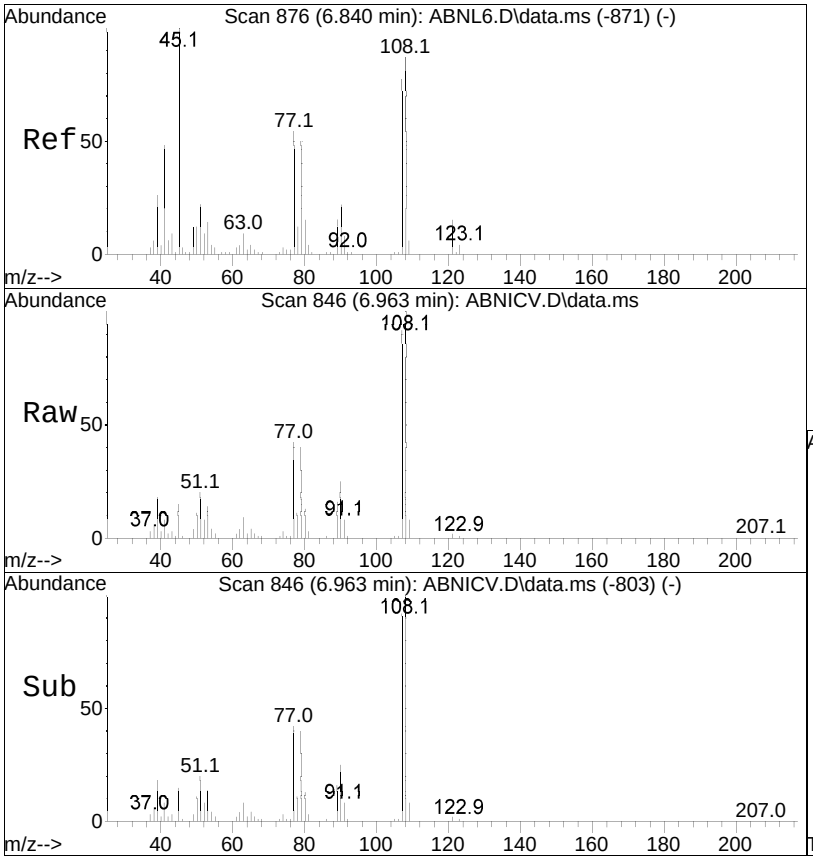


#14
Bis(2-chloroisopropyl)ether
Concen: 4.97 ug/ml
RT: 6.975 min Scan# 848
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 45 Resp: 171977

Ion	Ratio	Lower	Upper
45	100		
121	19.1	9.8	14.6#
77	36.1	6.1	9.1#

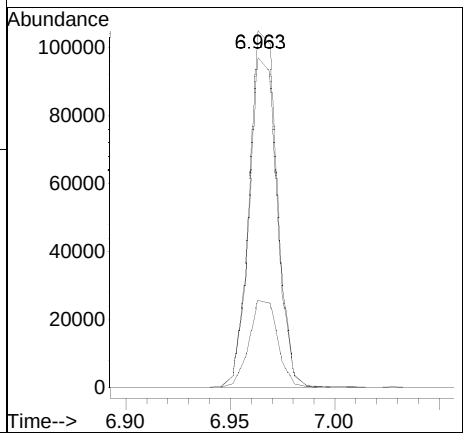


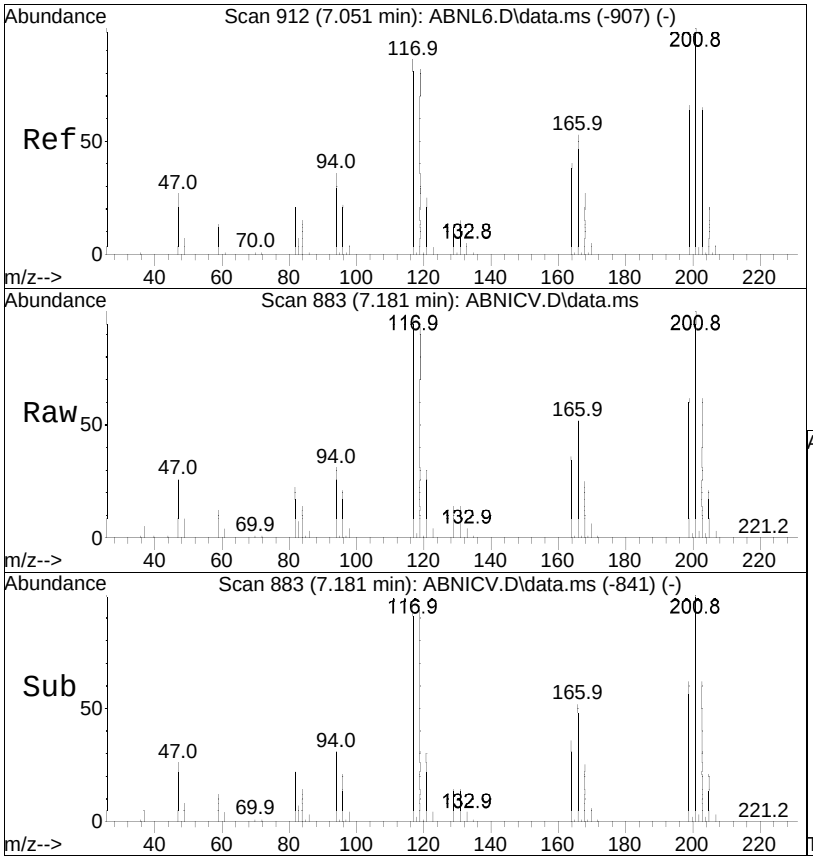


#15
2-Methylphenol
Concen: 5.06 ug/ml
RT: 6.963 min Scan# 846
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:108 Resp: 97643

Ion	Ratio	Lower	Upper
108	100		
107	92.3	70.7	106.1
90	25.1	18.7	28.1

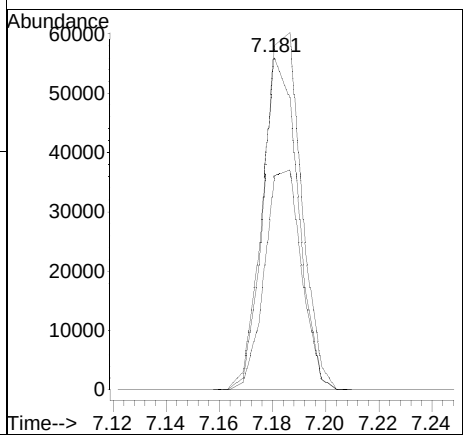


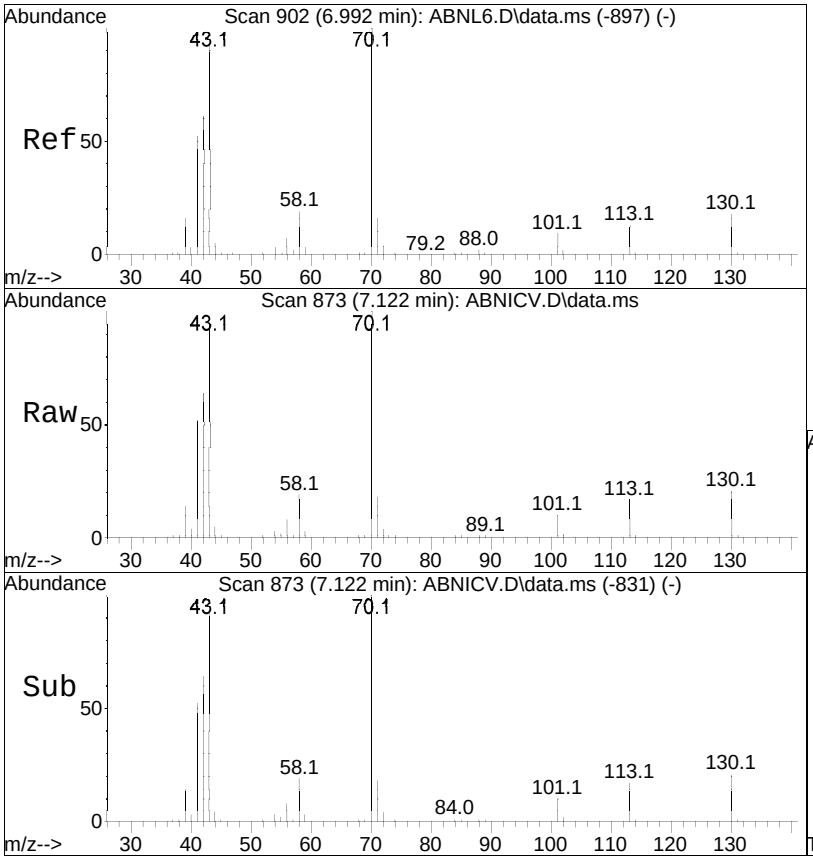


#16
Hexachloroethane
Concen: 5.00 ug/ml
RT: 7.181 min Scan# 883
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:117 Resp: 52744

Ion	Ratio	Lower	Upper
117	100		
201	111.9	58.6	87.8#
199	68.4	36.9	55.3#

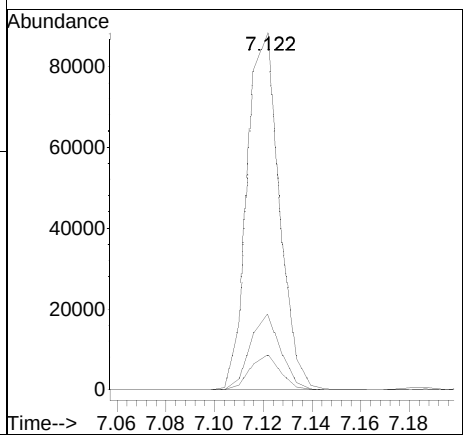


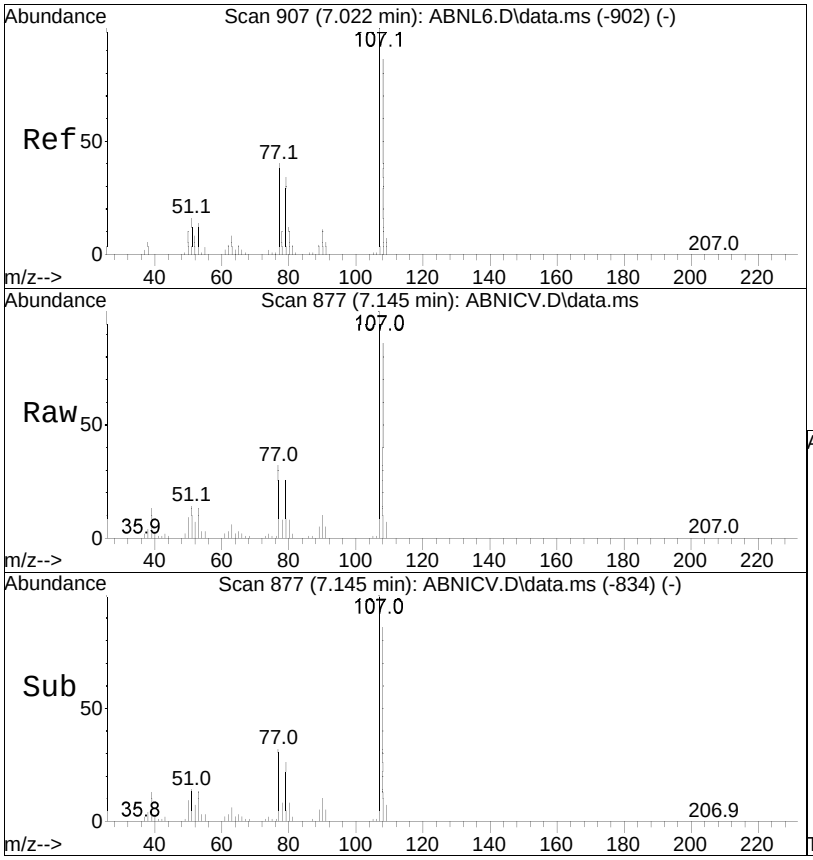


#17
n-Nitrosodi-n-propylamine
Concen: 5.03 ug/ml
RT: 7.122 min Scan# 873
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 70 Resp: 81185

Ion	Ratio	Lower	Upper
70	100		
130	20.1	18.2	27.4
101	9.2	7.8	11.8

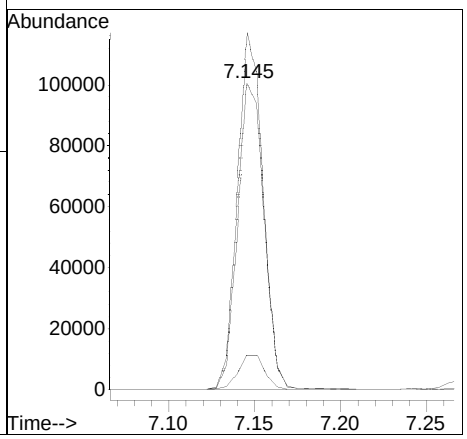


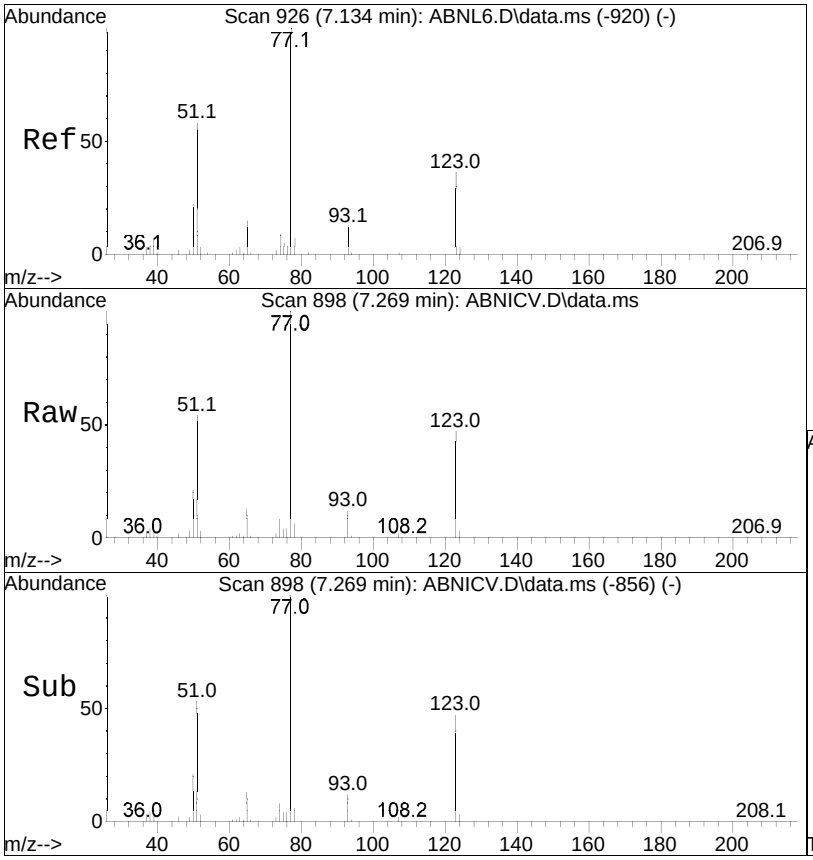


#18
3-Methylphenol/4-Methylphenol
Concen: 5.08 ug/ml
RT: 7.145 min Scan# 877
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:108 Resp: 106865

Ion	Ratio	Lower	Upper
108	100		
107	113.1	88.6	132.8
90	11.3	8.8	13.2

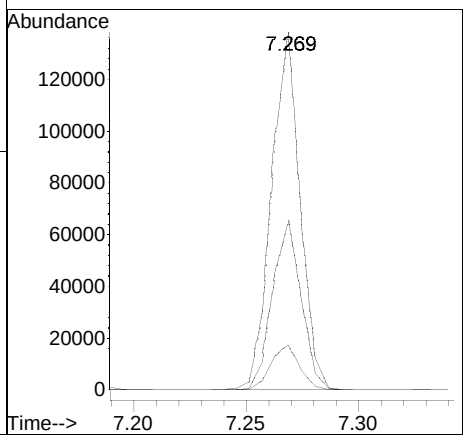


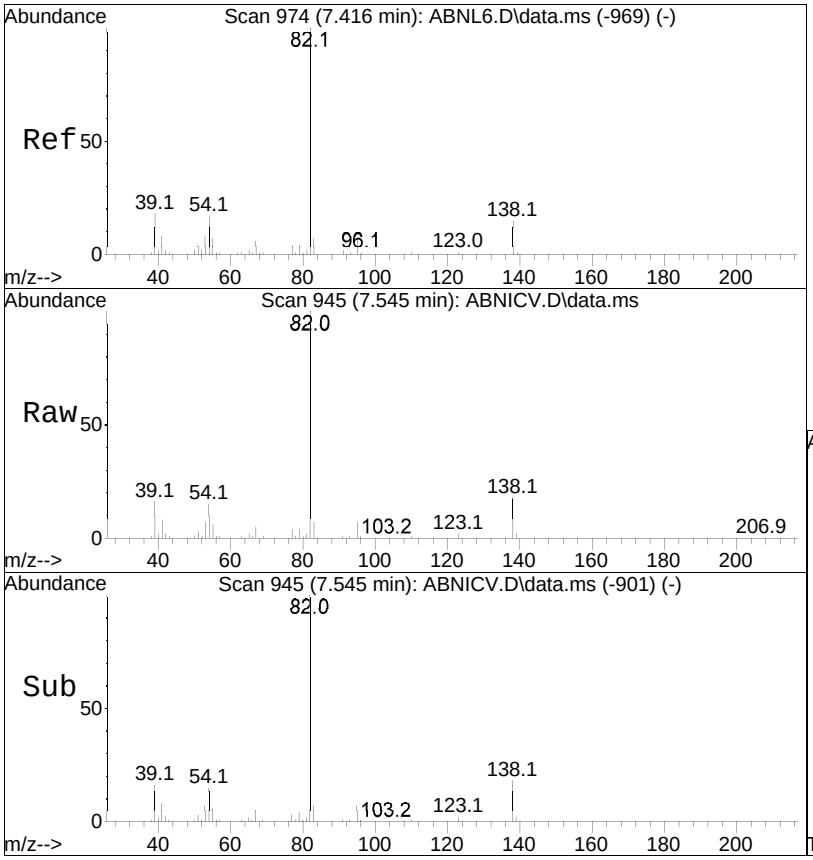


#20
Nitrobenzene
Concen: 5.07 ug/ml
RT: 7.269 min Scan# 898
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 77 Resp: 120866

Ion	Ratio	Lower	Upper
77	100		
123	47.6	36.3	54.5
65	12.7	11.6	17.4

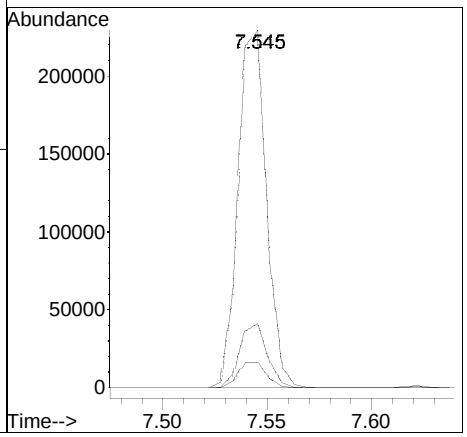


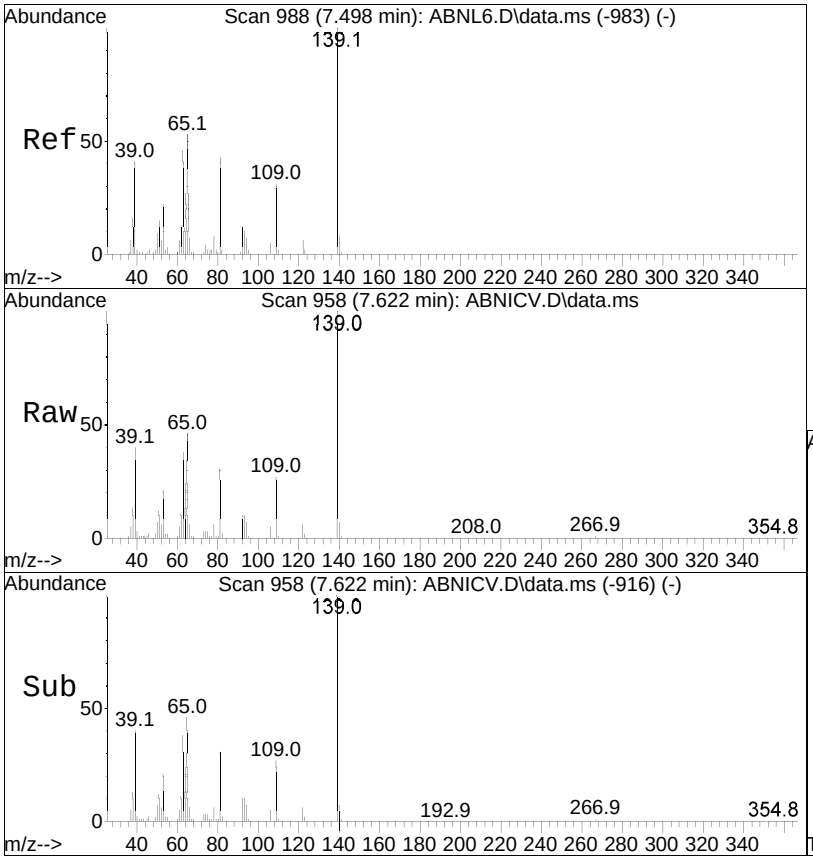


#21
Isophorone
Concen: 5.16 ug/ml
RT: 7.545 min Scan# 945
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 82 Resp: 214041

Ion	Ratio	Lower	Upper
82	100		
138	17.6	14.7	22.1
95	7.3	5.2	7.8

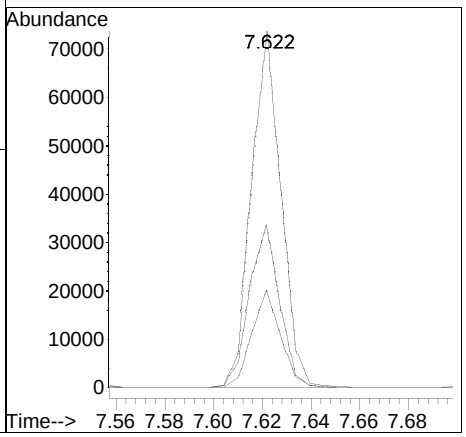


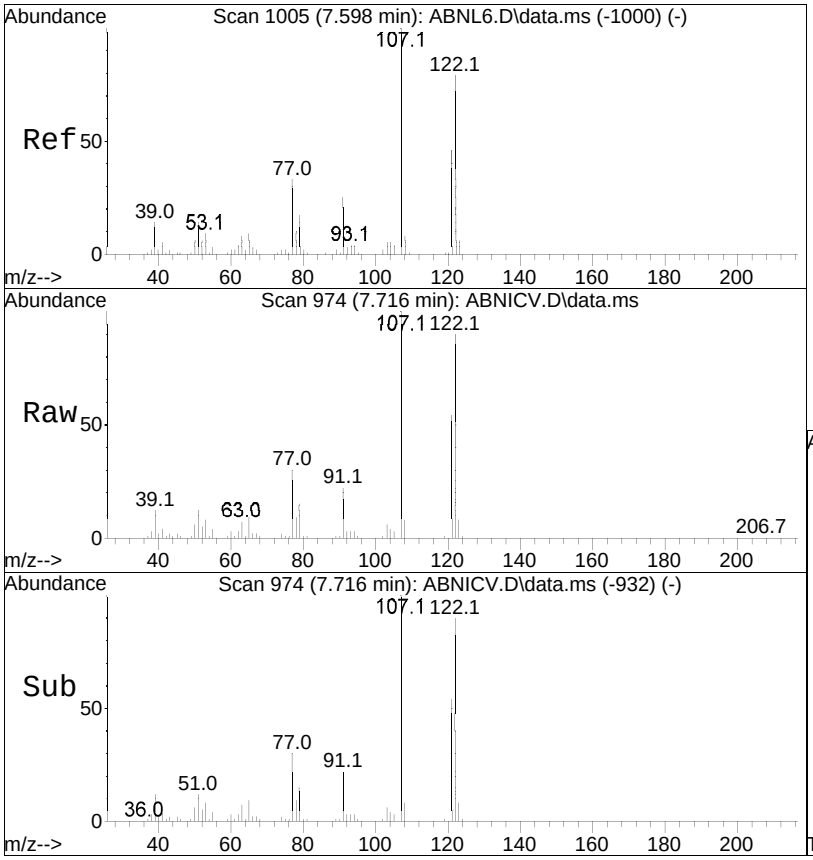


#22
2-Nitrophenol
Concen: 5.05 ug/ml
RT: 7.622 min Scan# 958
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:139 Resp: 61782

Ion	Ratio	Lower	Upper
139	100		
109	26.8	19.4	29.0
65	46.7	46.1	69.1

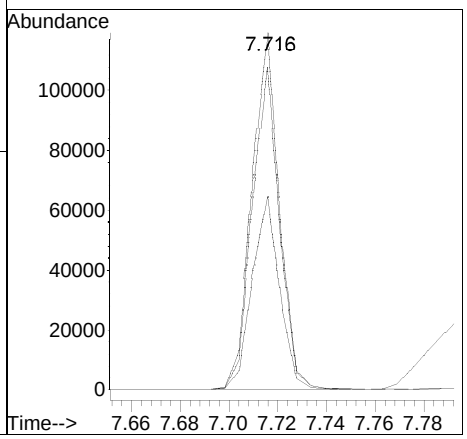


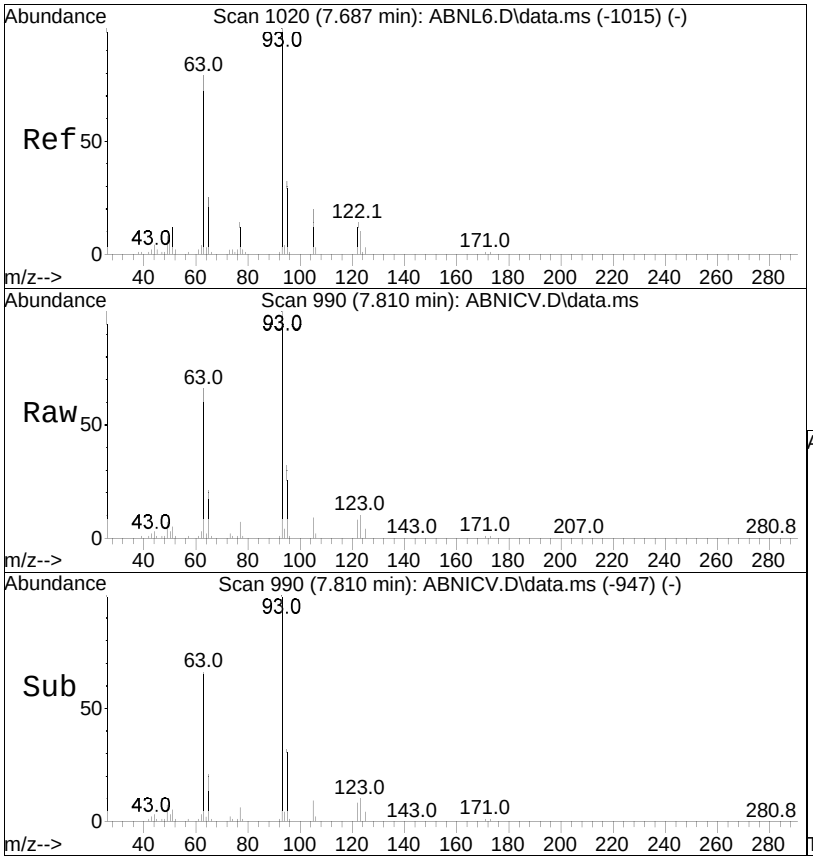


#23
2,4-Dimethylphenol
Concen: 4.83 ug/ml
RT: 7.716 min Scan# 974
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:107 Resp: 92715

Ion	Ratio	Lower	Upper
107	100		
121	54.2	40.0	60.0
122	89.8	70.2	105.4

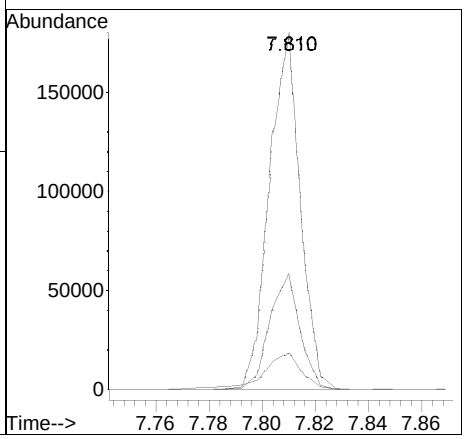


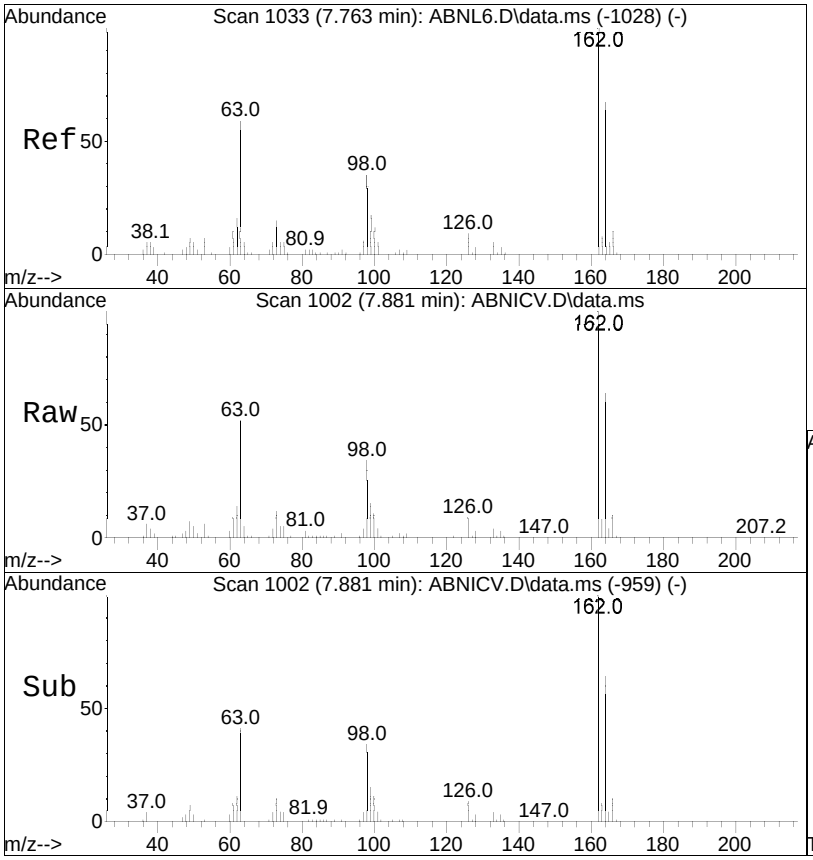


#24
Bis(2-chloroethoxy)methane
Concen: 5.18 ug/ml
RT: 7.810 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 93 Resp: 143604

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	12.7	10.1	15.1

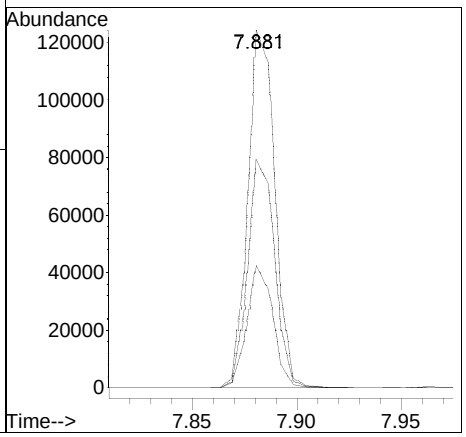


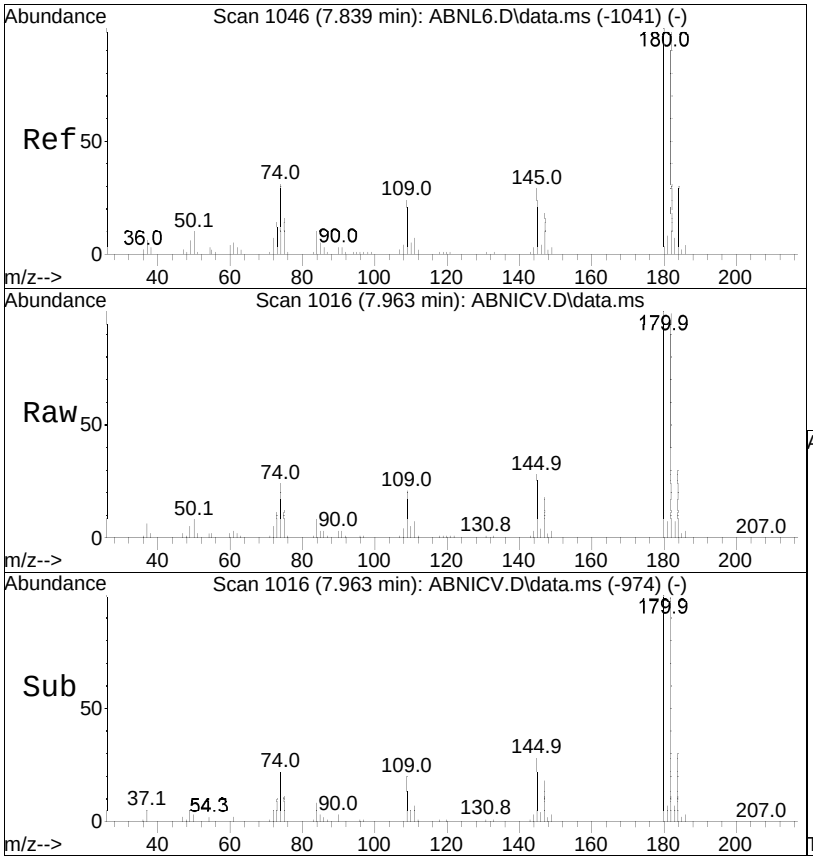


#25
2,4-Dichlorophenol
Concen: 5.15 ug/ml
RT: 7.881 min Scan# 1002
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:162 Resp: 110484

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.0	76.4
98	33.1	32.2	48.2

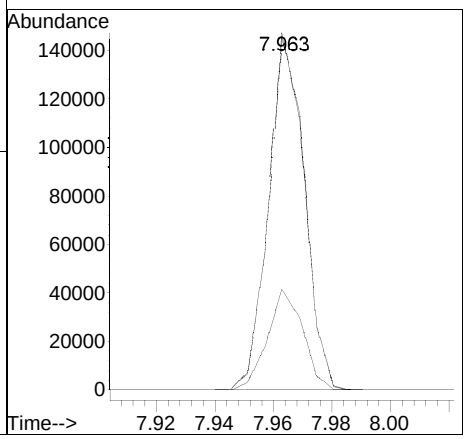


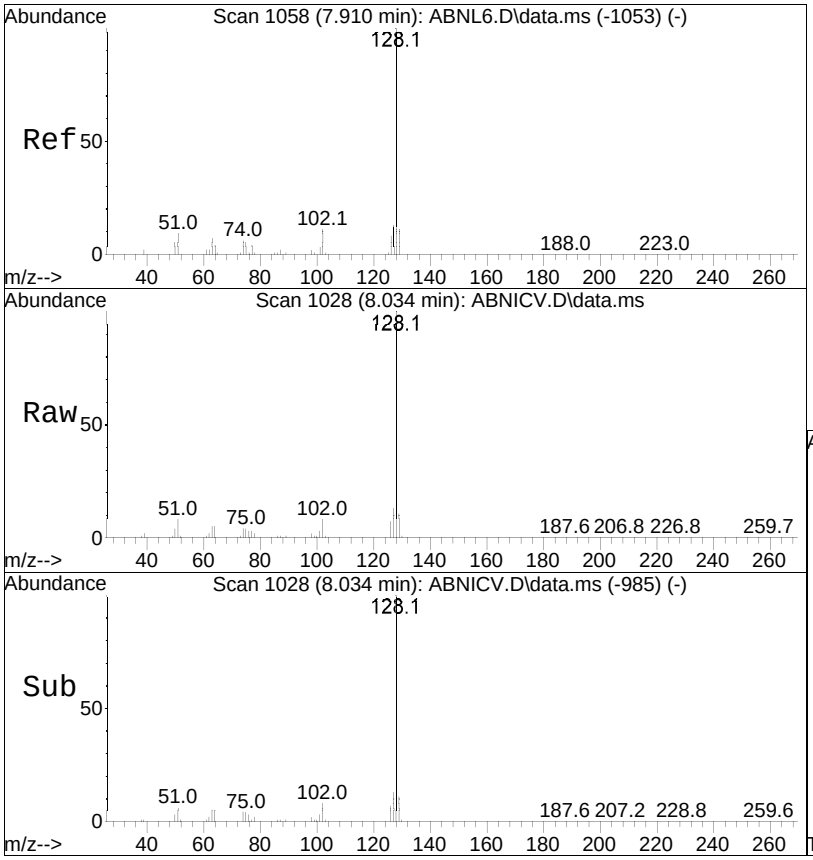


#26
1,2,4-Trichlorobenzene
Concen: 4.97 ug/ml
RT: 7.963 min Scan# 1016
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:180 Resp: 123600

Ion	Ratio	Lower	Upper
180	100		
182	100.4	76.0	114.0
145	28.1	25.7	38.5

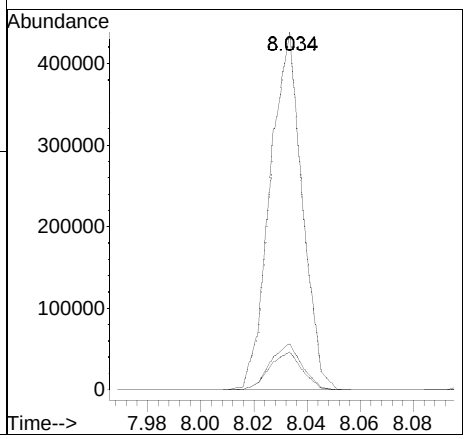


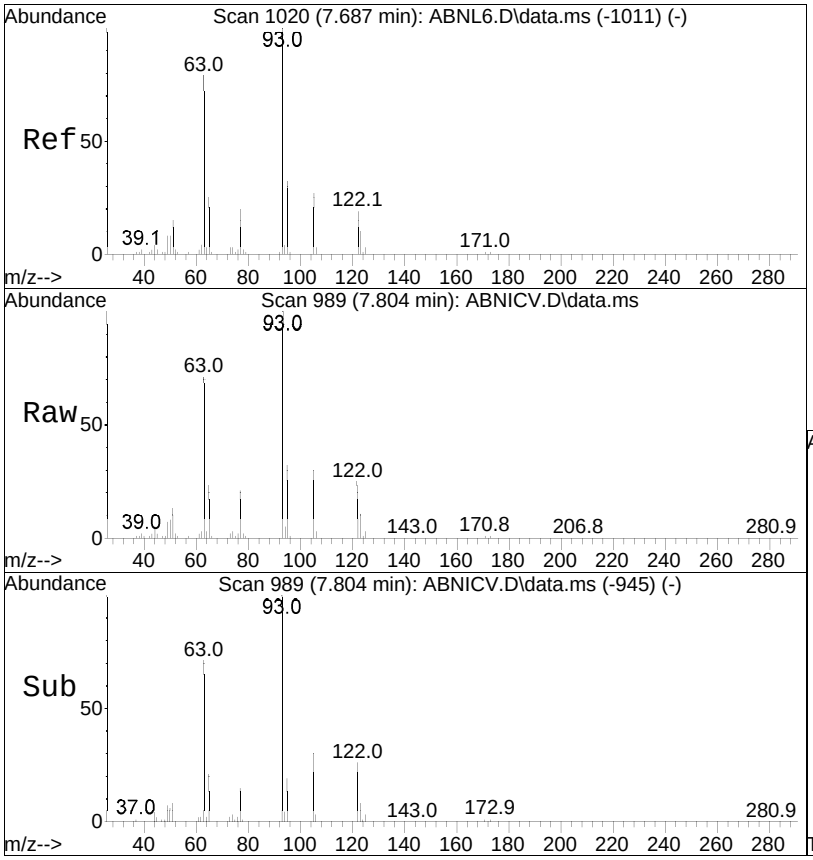


#36
Naphthalene
Concen: 5.00 ug/ml
RT: 8.034 min Scan# 1028
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:128 Resp: 363286

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.0	10.3	15.5

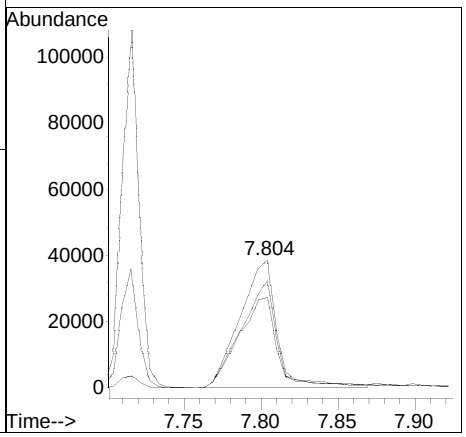


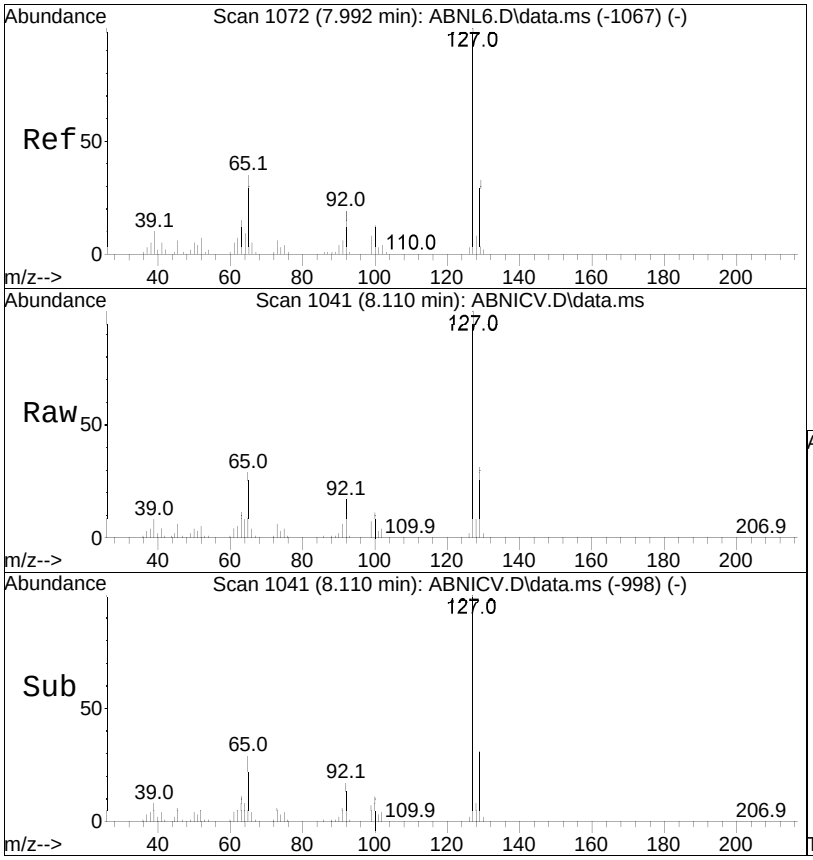


#37
Benzoic Acid
Concen: 4.75 ug/ml
RT: 7.804 min Scan# 989
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:105 Resp: 65401

Ion	Ratio	Lower	Upper
105	100		
122	82.6	59.9	89.9
77	72.9	60.1	90.1

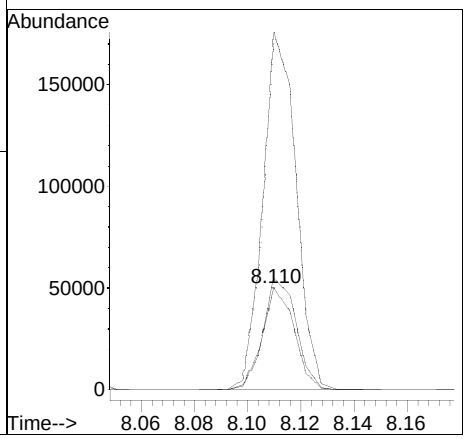


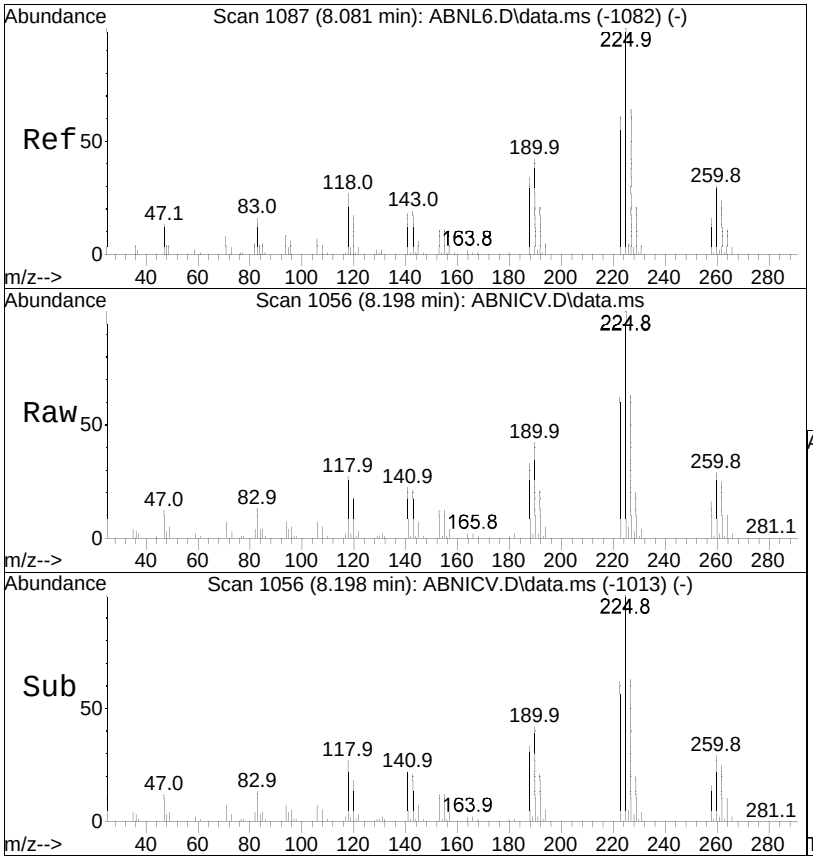


#38
4-Chloroaniline
Concen: 5.18 ug/ml
RT: 8.110 min Scan# 1041
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 65 Resp: 42184

Ion	Ratio	Lower	Upper
65	100		
127	357.3	237.6	356.4#
129	112.2	76.3	114.5

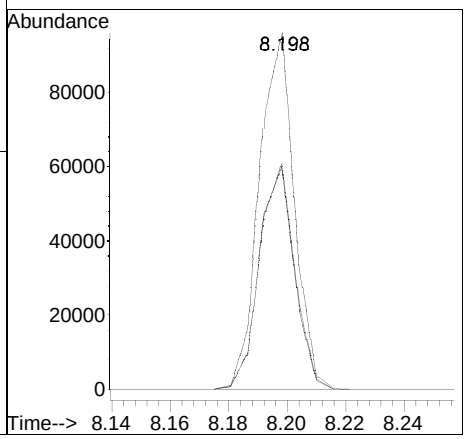


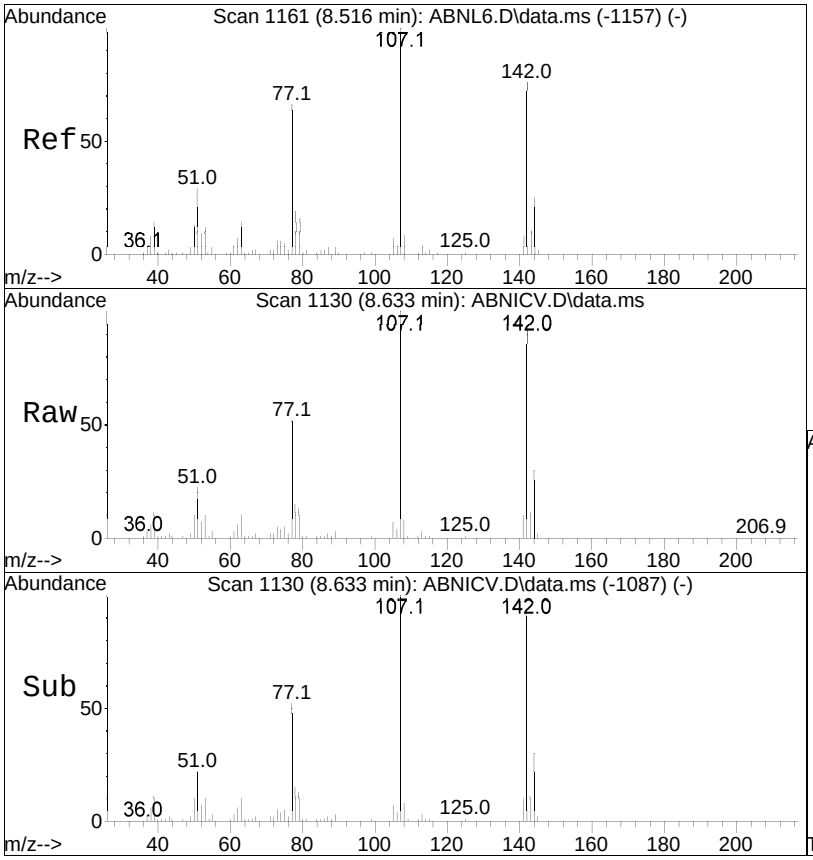


#39
Hexachlorobutadiene
Concen: 5.15 ug/ml
RT: 8.198 min Scan# 1056
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:225 Resp: 79167

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5
227	63.9	52.2	78.2

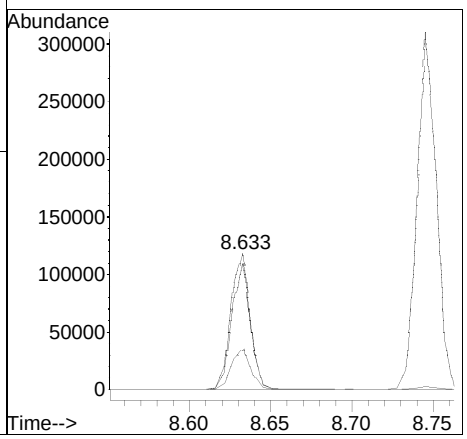


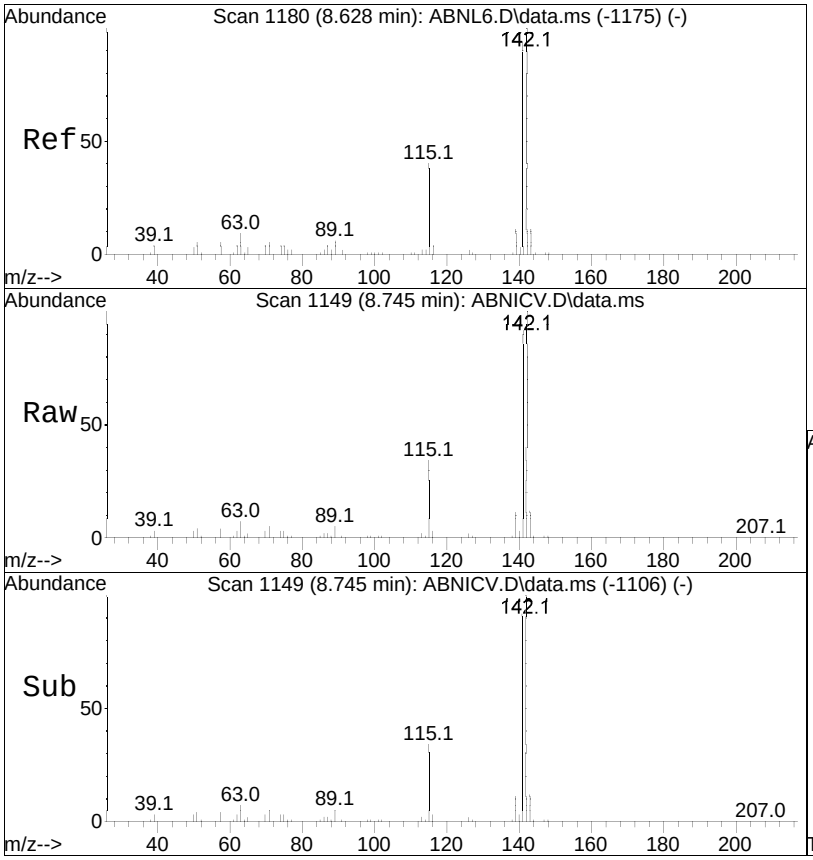


#40
p-Chloro-m-cresol
Concen: 5.12 ug/ml
RT: 8.633 min Scan# 1130
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:107 Resp: 97611

Ion	Ratio	Lower	Upper
107	100		
144	29.8	20.9	31.3
142	88.8	66.1	99.1

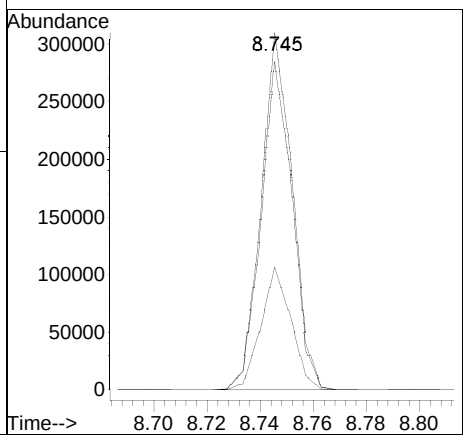


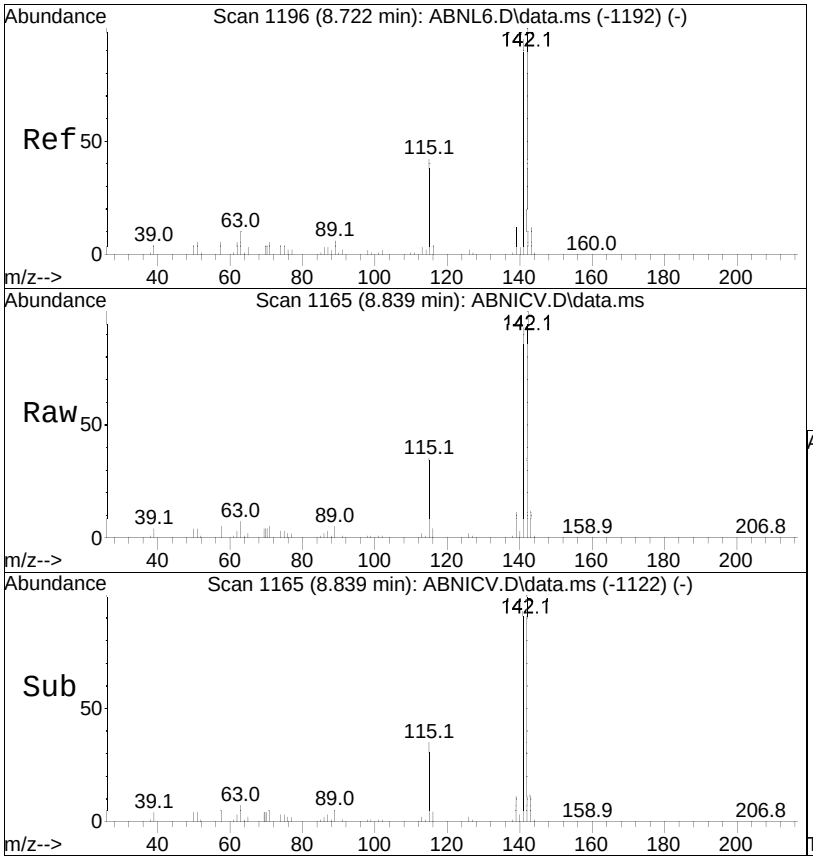


#41
2-Methylnaphthalene
Concen: 5.19 ug/ml
RT: 8.745 min Scan# 1149
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:142 Resp: 251305

Ion	Ratio	Lower	Upper
142	100		
141	91.8	69.6	104.4
115	33.3	26.6	40.0

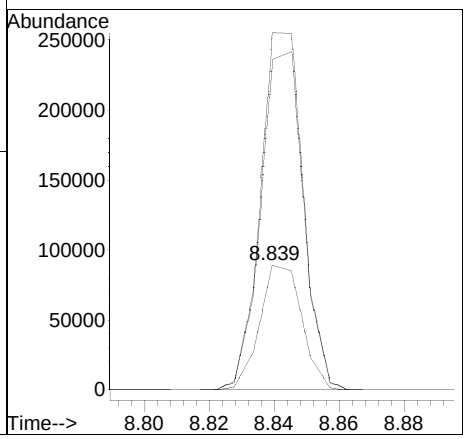


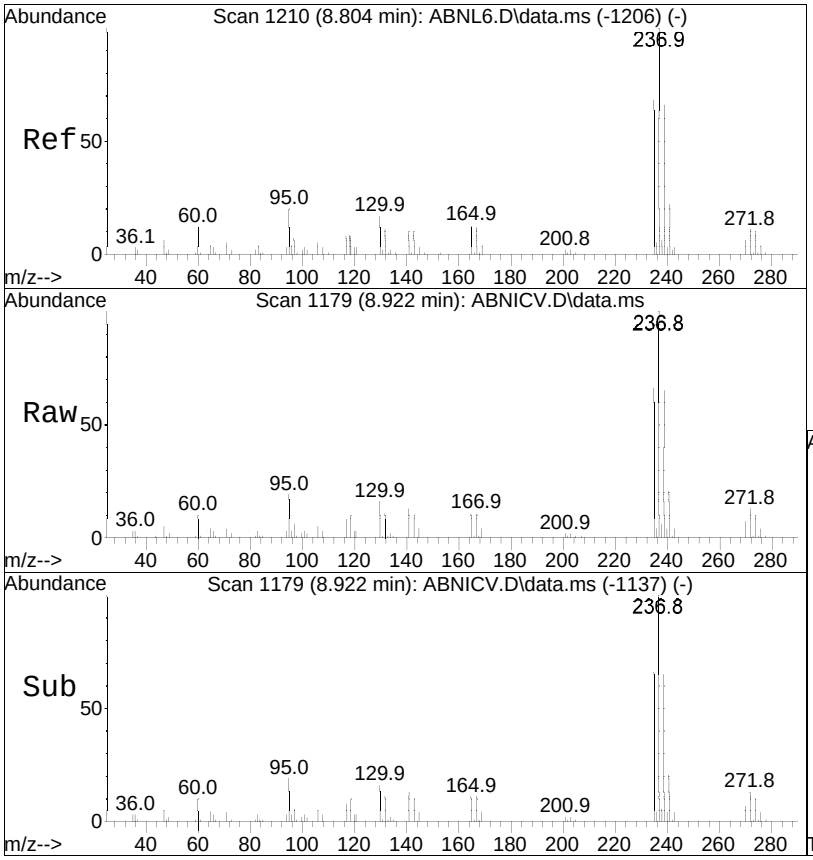


#42
1-Methylnaphthalene
Concen: 5.14 ug/ml
RT: 8.839 min Scan# 1165
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:115 Resp: 80597

Ion	Ratio	Lower	Upper
115	100		
141	272.5	207.8	311.6
142	289.7	226.8	340.2

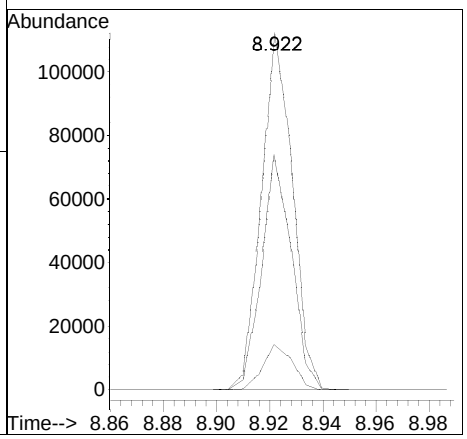


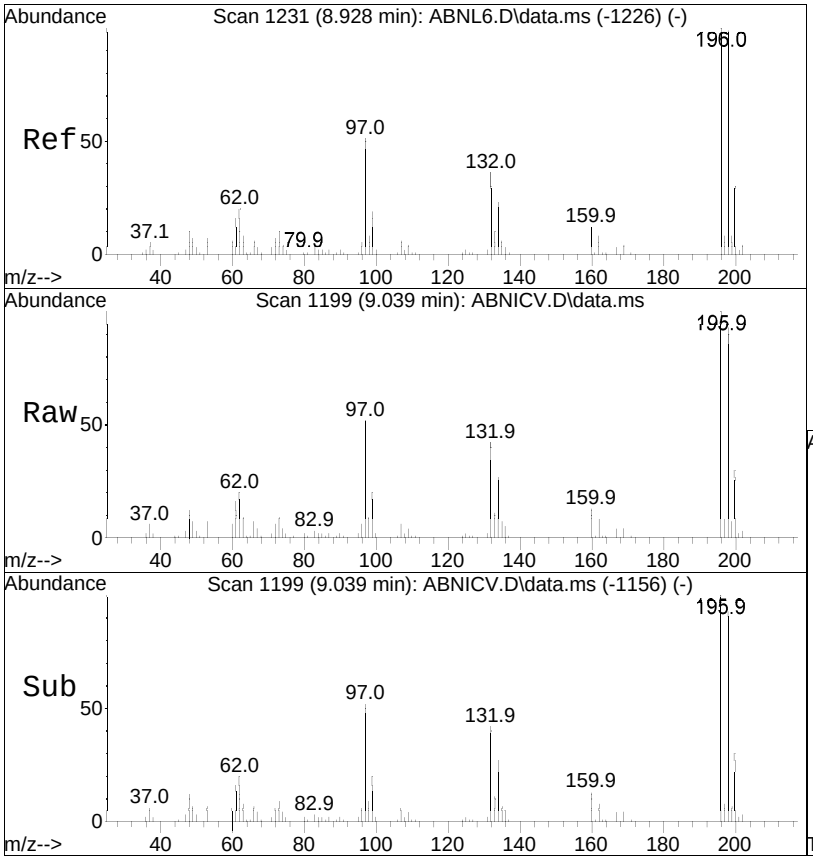


#43
Hexachlorocyclopentadiene
Concen: 5.39 ug/ml
RT: 8.922 min Scan# 1179
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:237 Resp: 90794

Ion	Ratio	Lower	Upper
237	100		
235	63.6	49.7	74.5
272	12.3	9.8	14.6

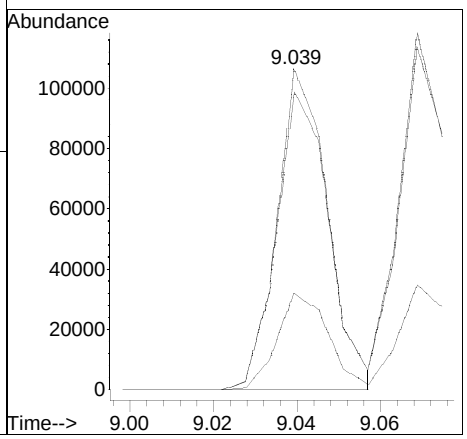


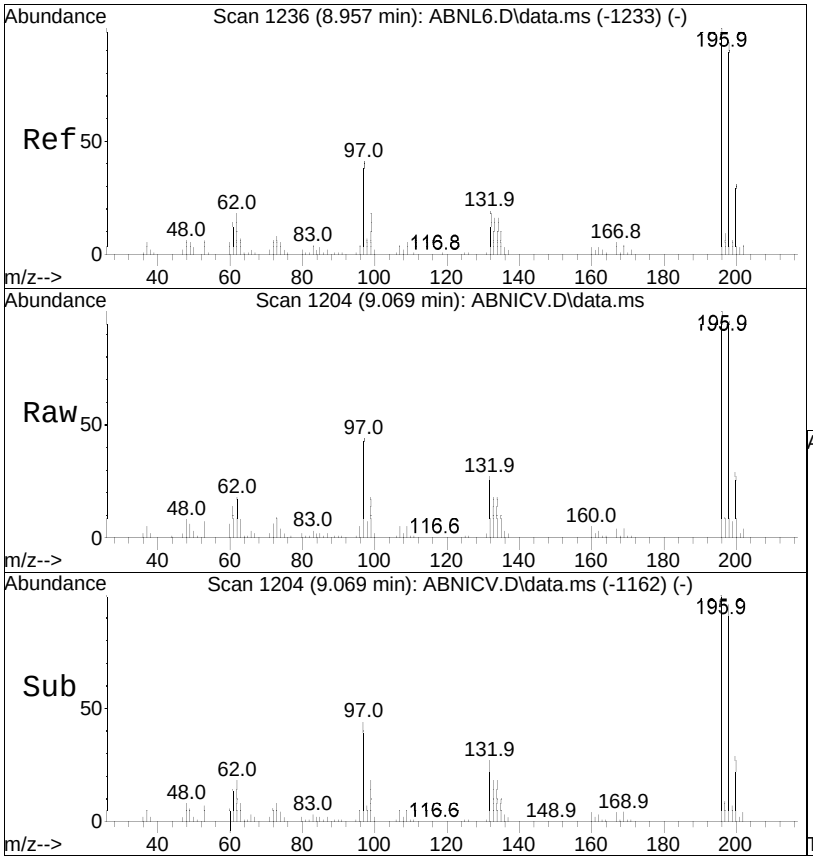


#44
2,4,6-Trichlorophenol
Concen: 5.05 ug/ml
RT: 9.039 min Scan# 1199
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:196 Resp: 89438

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.5	116.3
200	30.8	23.8	35.6

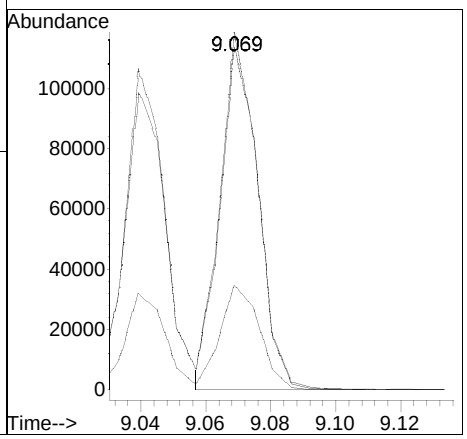


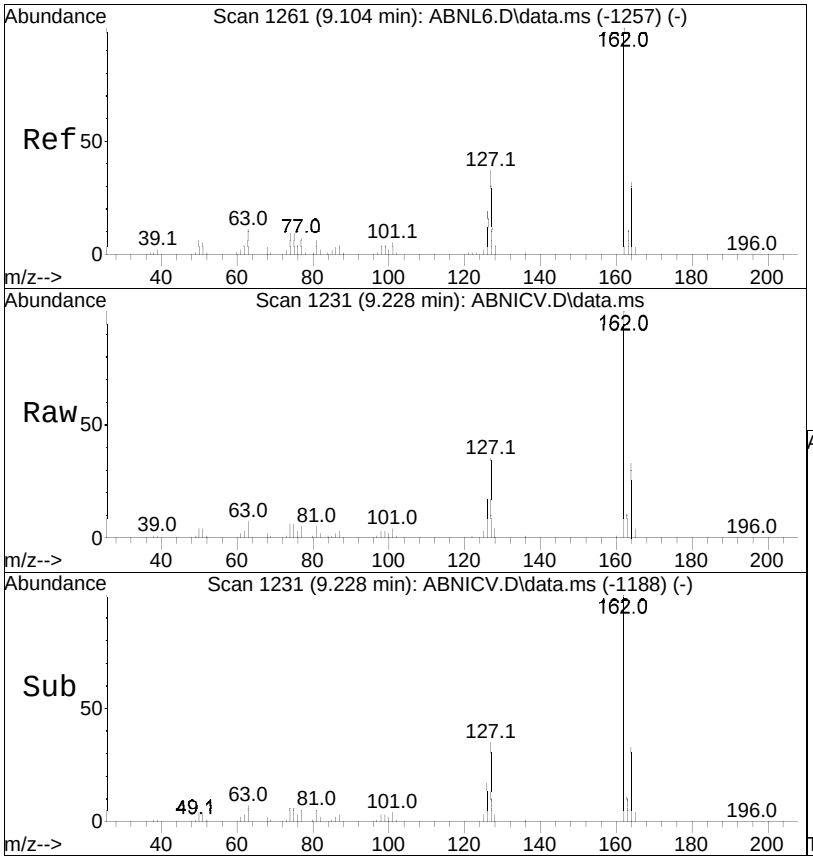


#45
2,4,5-Trichlorophenol
Concen: 5.15 ug/ml
RT: 9.069 min Scan# 1204
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:196 Resp: 94454

Ion	Ratio	Lower	Upper
196	100		
200	31.3	25.4	38.0
198	99.0	78.0	117.0

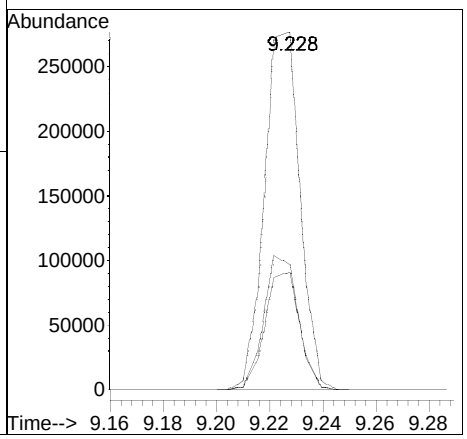


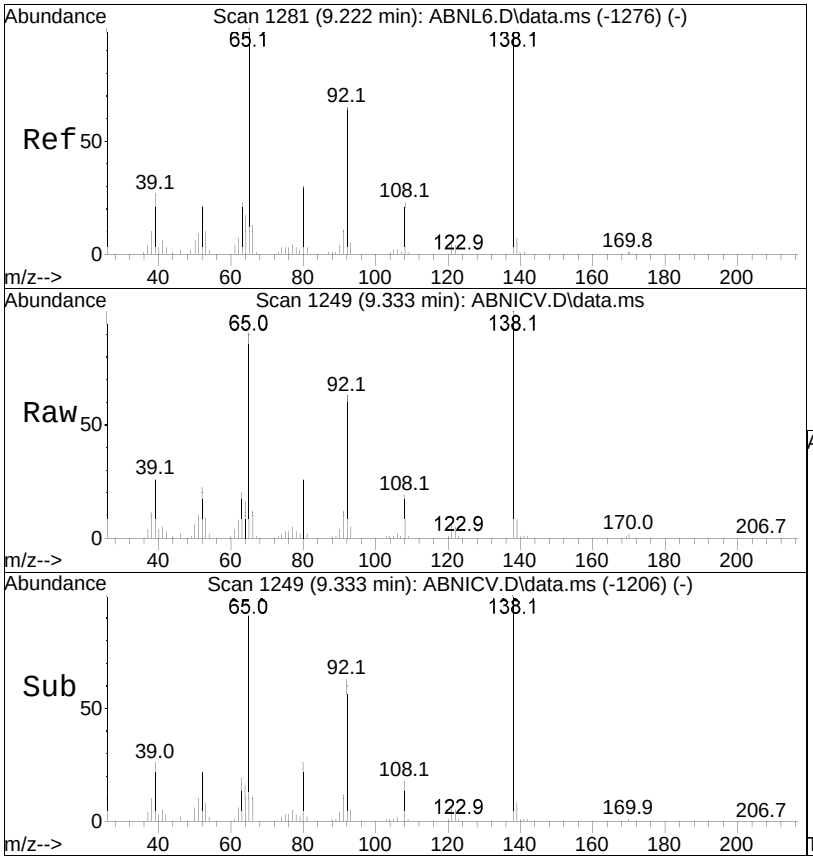


#47
2-Chloronaphthalene
Concen: 5.05 ug/ml
RT: 9.228 min Scan# 1231
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:162 Resp: 254917

Ion	Ratio	Lower	Upper
162	100		
127	36.2	32.2	48.4
164	32.3	25.7	38.5

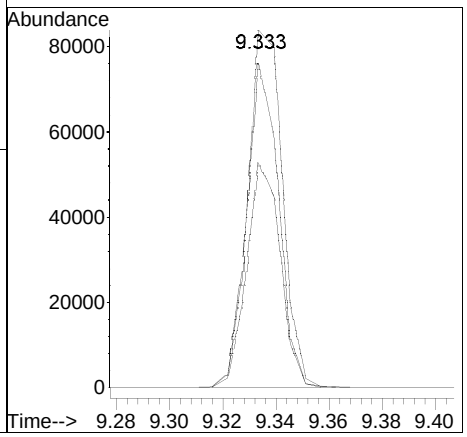


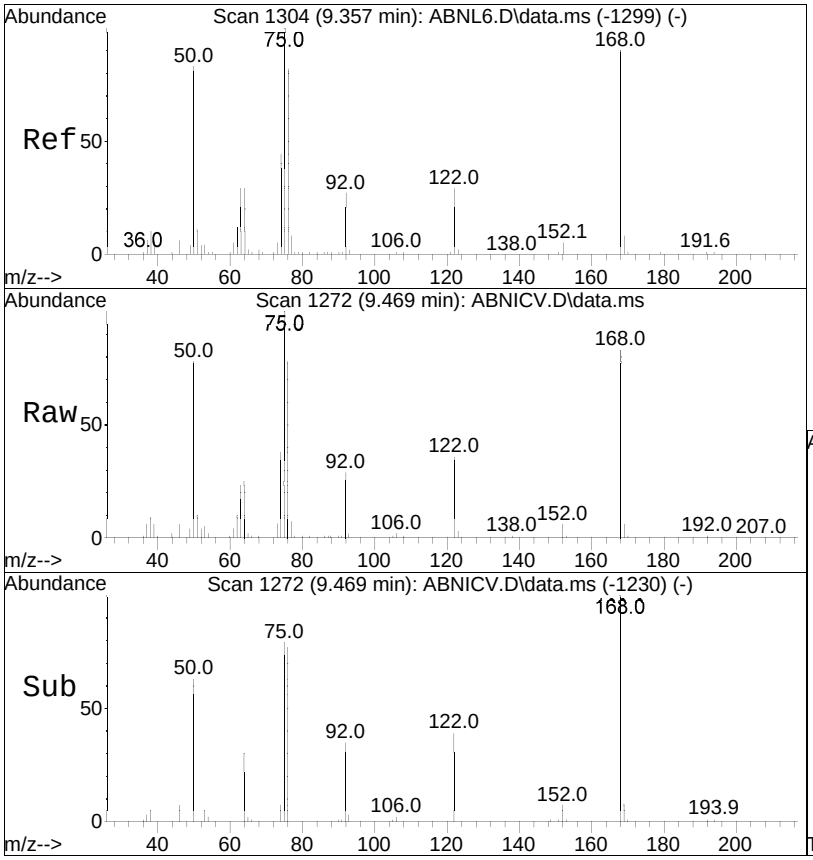


#48
2-Nitroaniline
Concen: 5.27 ug/ml
RT: 9.333 min Scan# 1249
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:138 Resp: 75716

Ion	Ratio	Lower	Upper
138	100		
92	60.7	53.5	80.3
65	83.3	86.3	129.5#

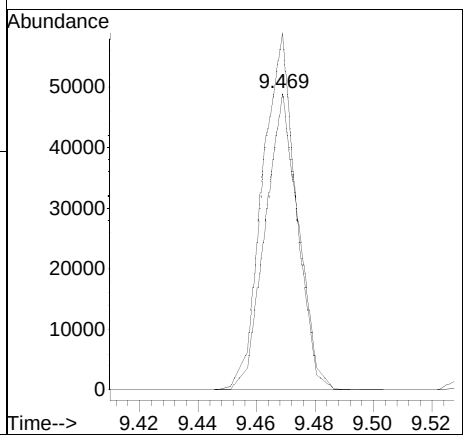


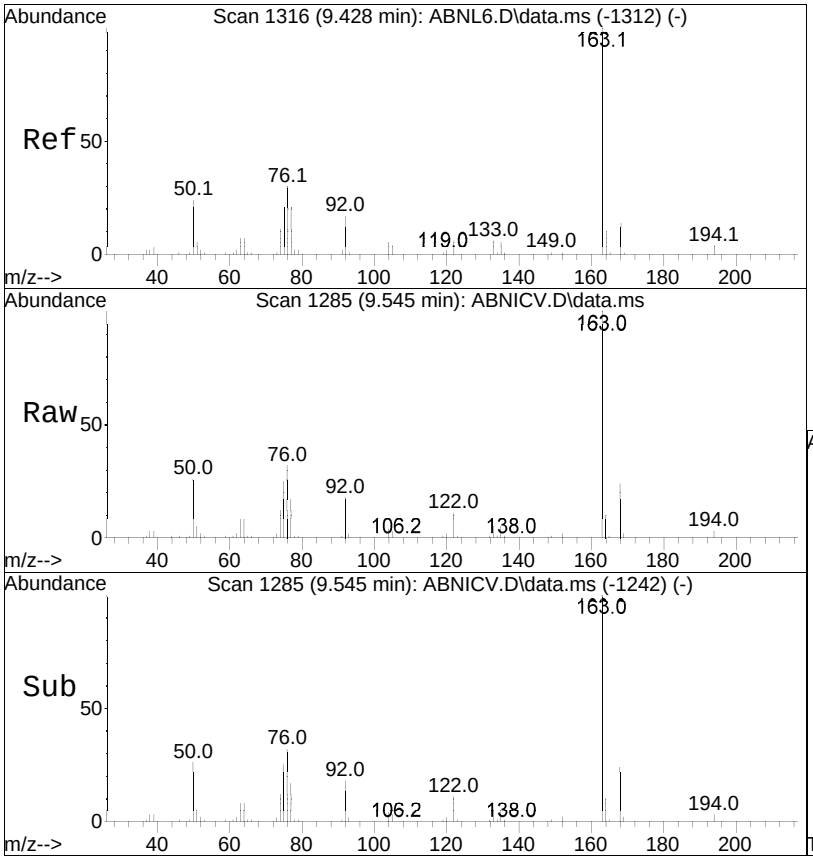


#49
1,4-Dinitrobenzene
Concen: 5.26 ug/ml
RT: 9.469 min Scan# 1272
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 38619

Ion	Ratio	Lower	Upper
168	100		
75	120.8	121.8	182.8#

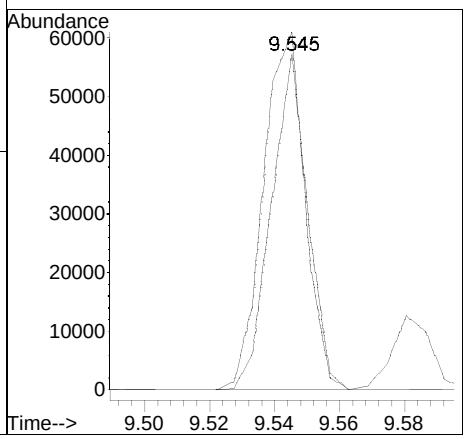


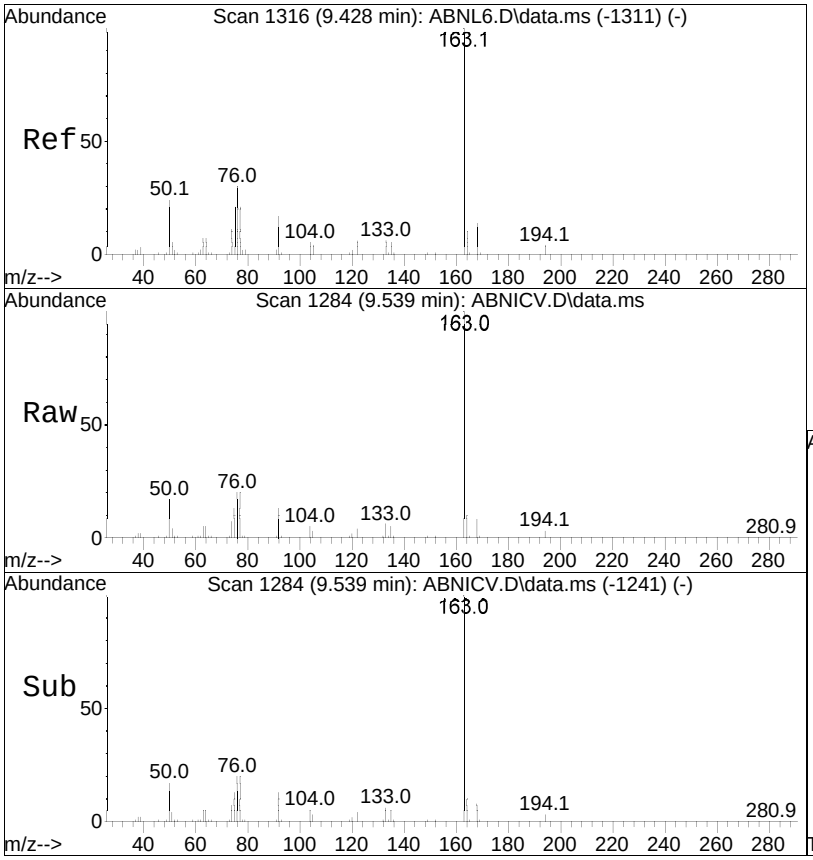


#50
1,3-Dinitrobenzene
Concen: 5.50 ug/ml
RT: 9.545 min Scan# 1285
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 44206

Ion	Ratio	Lower	Upper
168	100		
75	121.7	22.7	34.1#

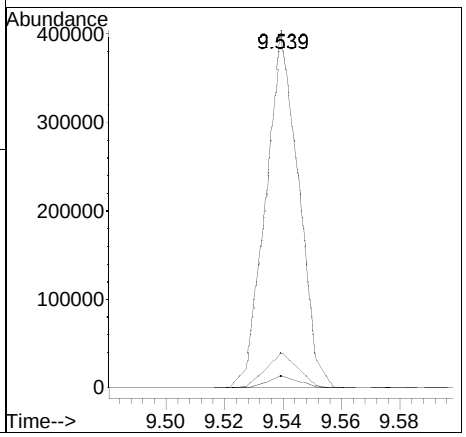


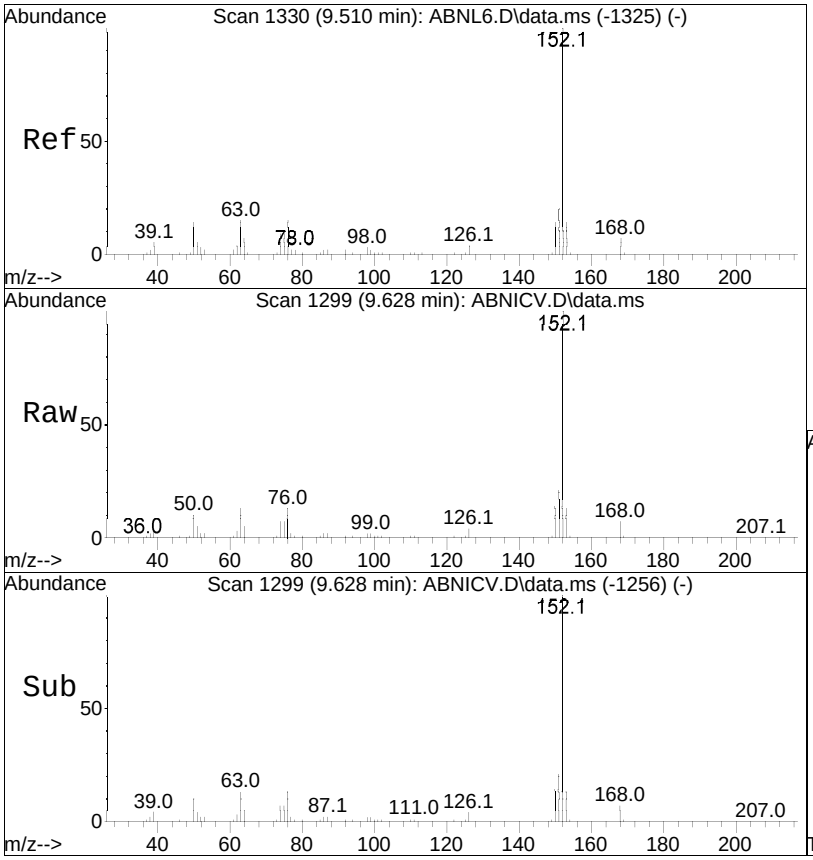


#51
Dimethyl phthalate
Concen: 5.29 ug/ml
RT: 9.539 min Scan# 1284
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:163 Resp: 311435

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	9.8	7.9	11.9

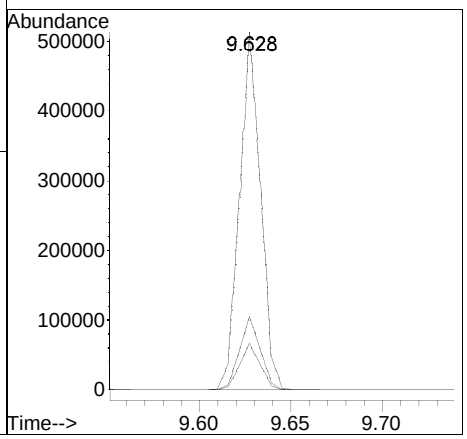


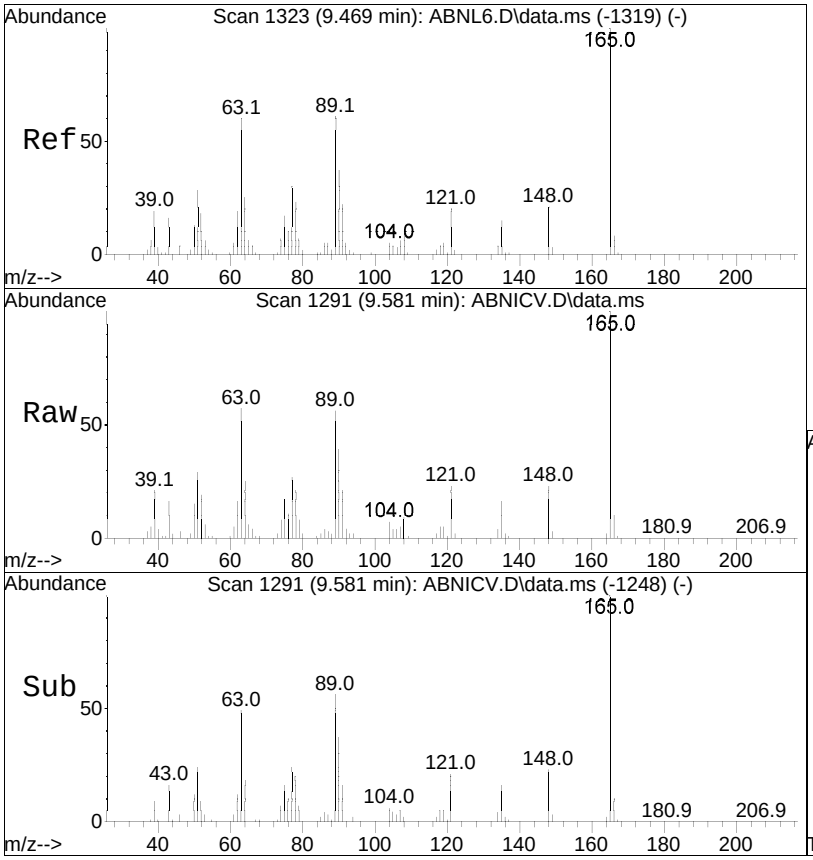


#52
Acenaphthylene
Concen: 5.36 ug/ml
RT: 9.628 min Scan# 1299
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:152 Resp: 403177

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	12.9	10.5	15.7

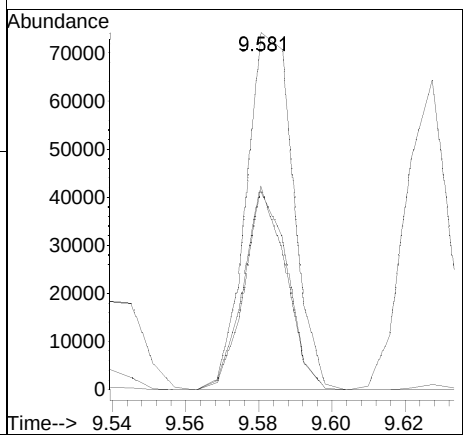


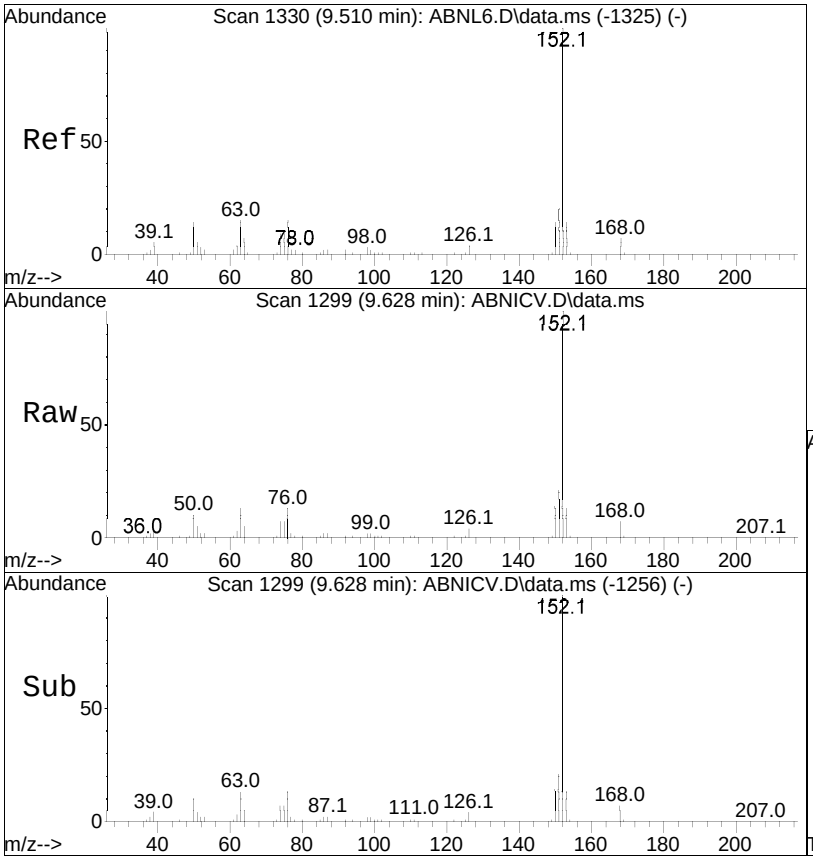


#53
2,6-Dinitrotoluene
Concen: 5.57 ug/ml
RT: 9.581 min Scan# 1291
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:165 Resp: 66602

Ion	Ratio	Lower	Upper
165	100		
89	51.0	54.2	81.2#
63	51.1	64.2	96.2#

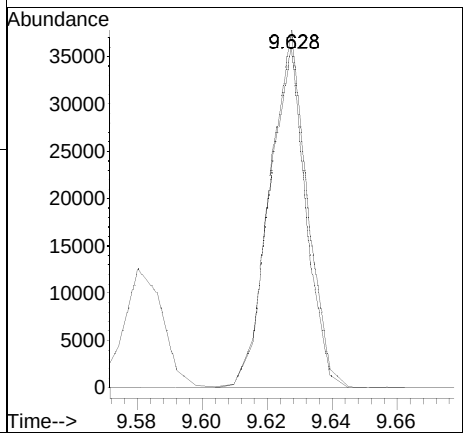


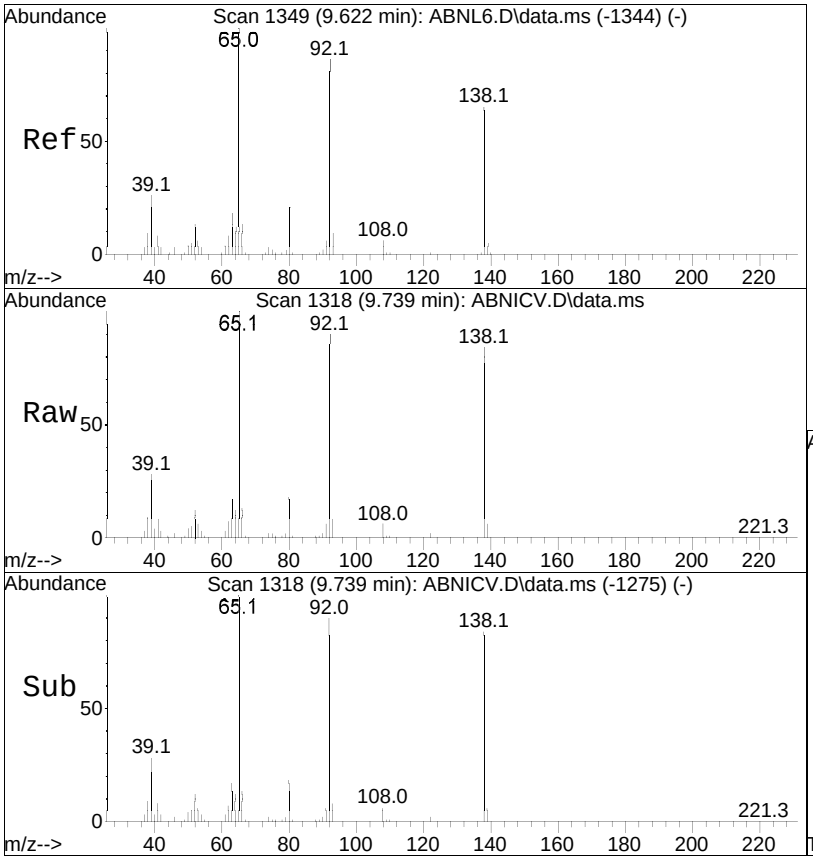


#54
1,2-Dinitrobenzene
Concen: 5.41 ug/ml
RT: 9.628 min Scan# 1299
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 28077

Ion	Ratio	Lower	Upper
168	100		
75	107.0	30.9	46.3#

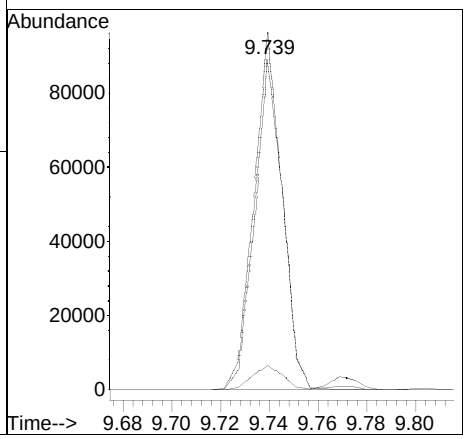


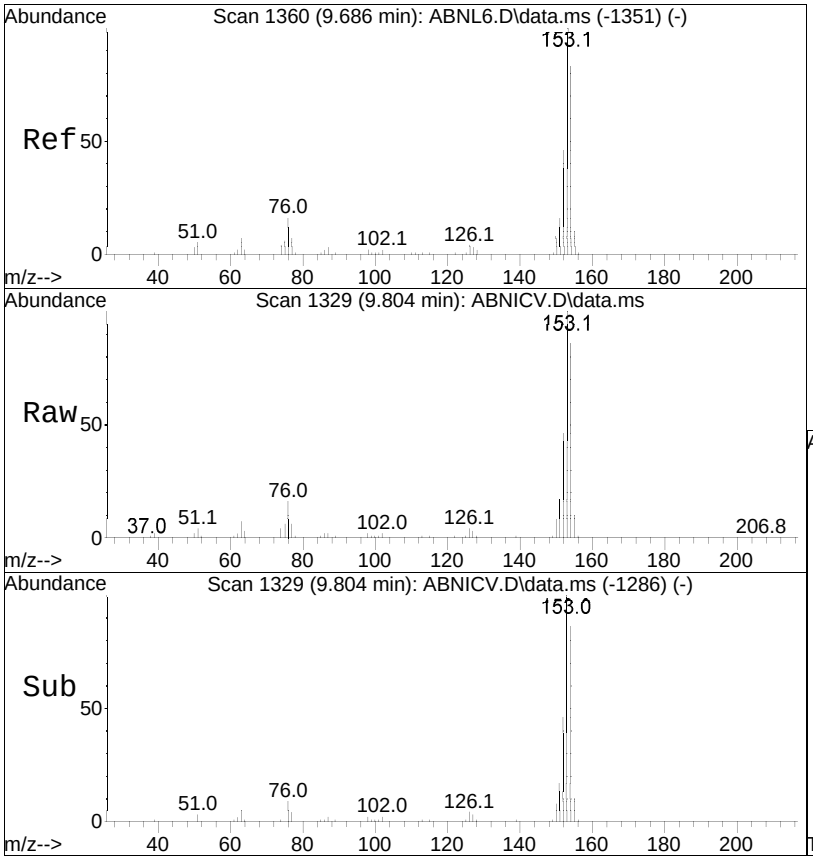


#64
3-Nitroaniline
Concen: 5.41 ug/ml
RT: 9.739 min Scan# 1318
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:138 Resp: 70653

Ion	Ratio	Lower	Upper
138	100		
92	107.9	93.4	140.2
108	8.2	9.5	14.3#

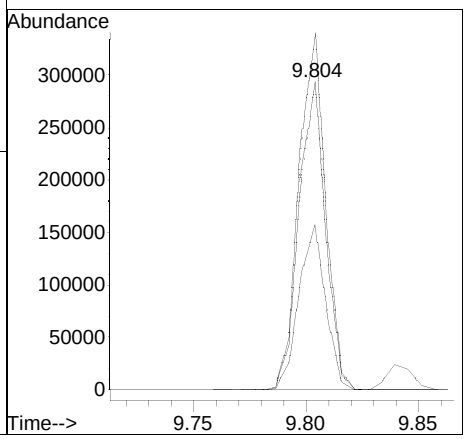


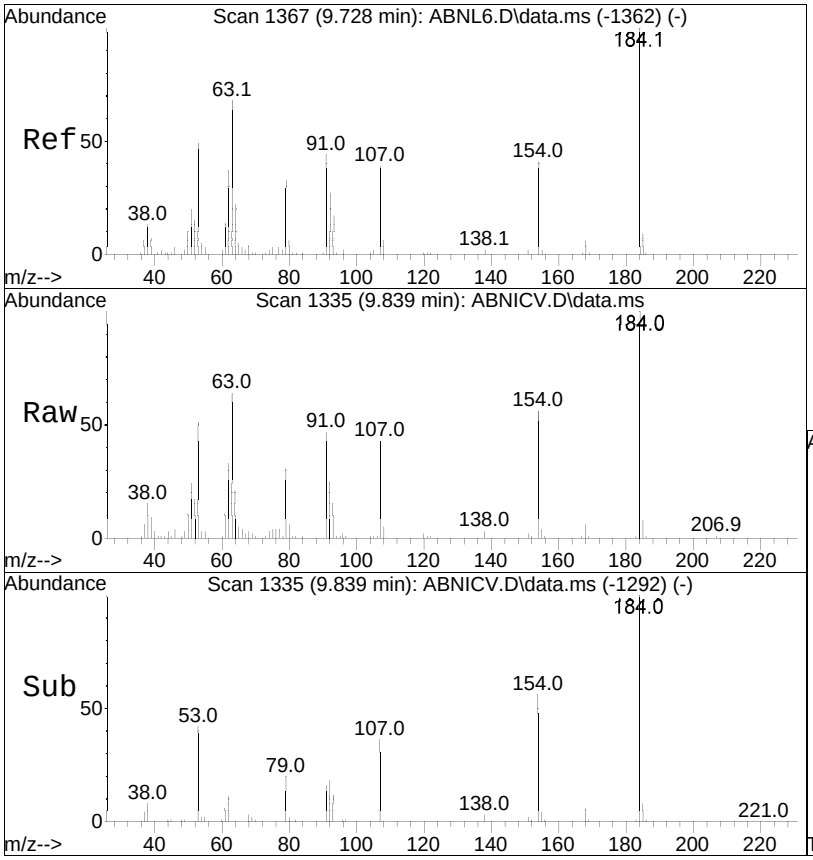


#65
Acenaphthene
Concen: 5.14 ug/ml
RT: 9.804 min Scan# 1329
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:154 Resp: 240578

Ion	Ratio	Lower	Upper
154	100		
153	116.2	85.3	127.9
152	54.2	41.4	62.0

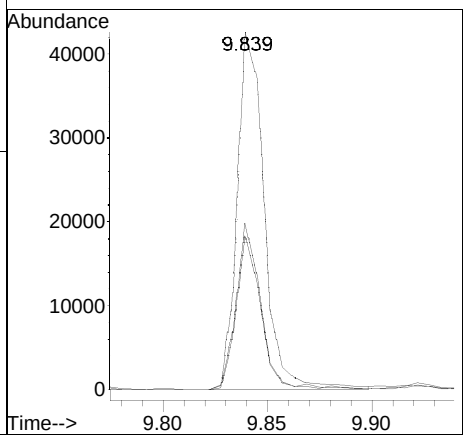


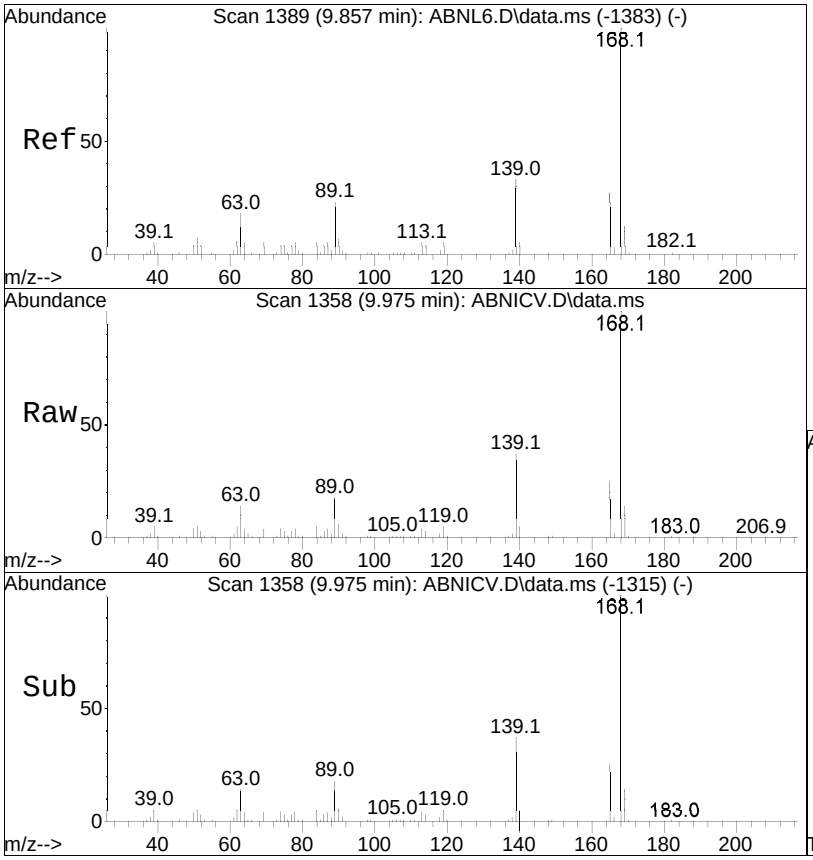


#66
2,4-Dinitrophenol
Concen: 4.89 ug/ml
RT: 9.839 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:184 Resp: 38145

Ion	Ratio	Lower	Upper
184	100		
107	38.9	37.7	56.5
91	43.6	46.3	69.5#

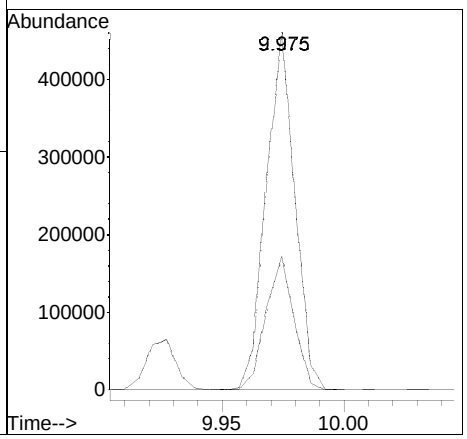


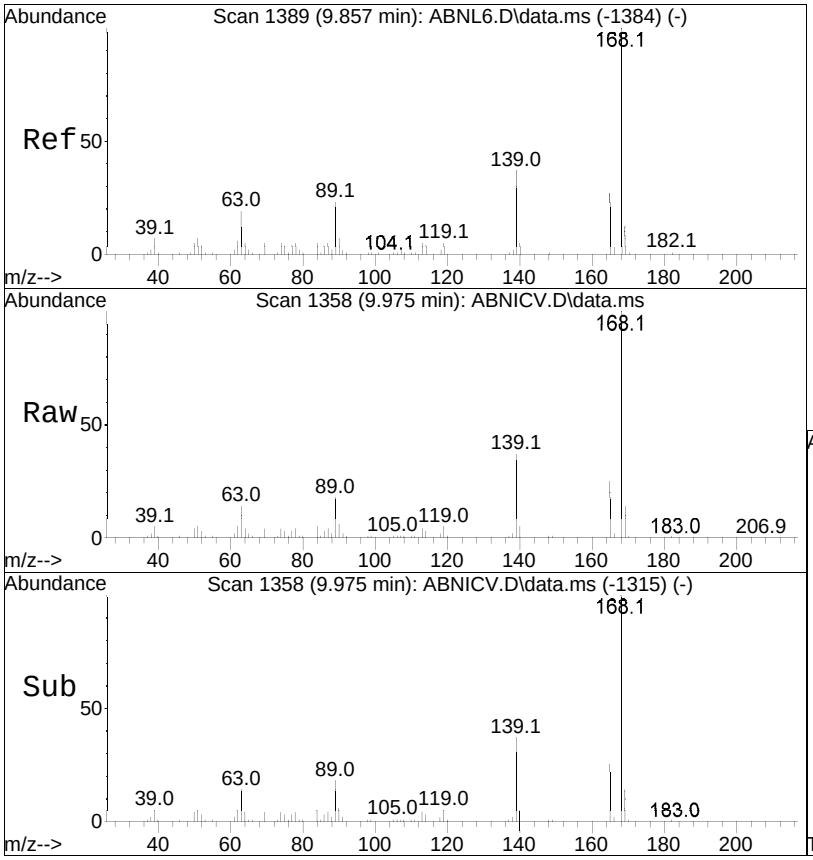


#67
Dibenzofuran
Concen: 4.92 ug/ml
RT: 9.975 min Scan# 1358
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:168 Resp: 372461

Ion	Ratio	Lower	Upper
168	100		
139	36.8	31.4	47.2

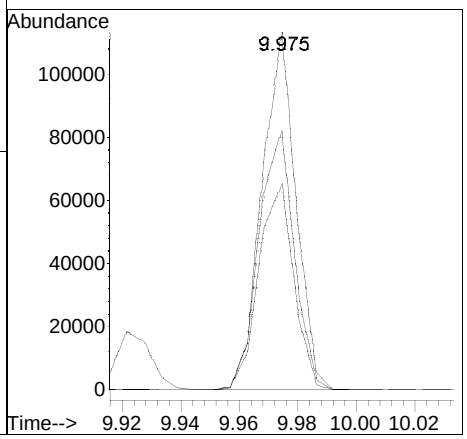


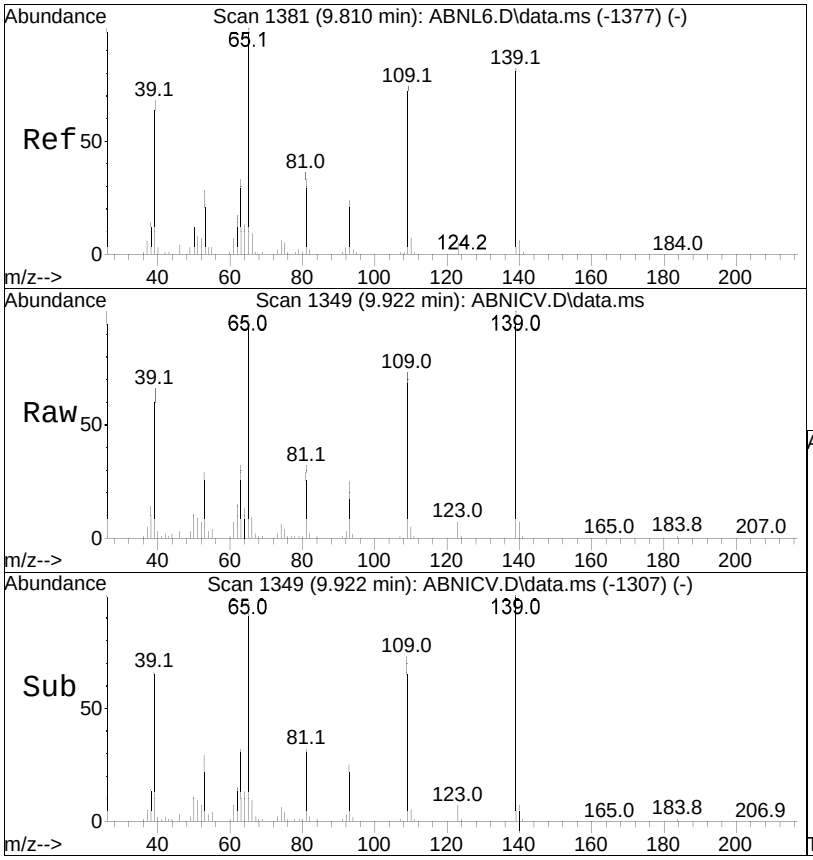


#68
2,4-Dinitrotoluene
Concen: 5.33 ug/ml
RT: 9.975 min Scan# 1358
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:165 Resp: 90317

Ion	Ratio	Lower	Upper
165	100		
89	75.8	72.0	108.0
63	60.3	52.7	79.1

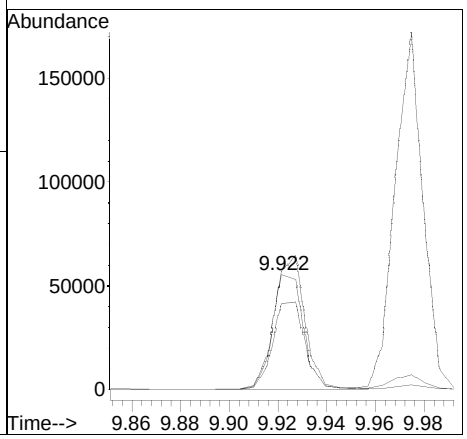


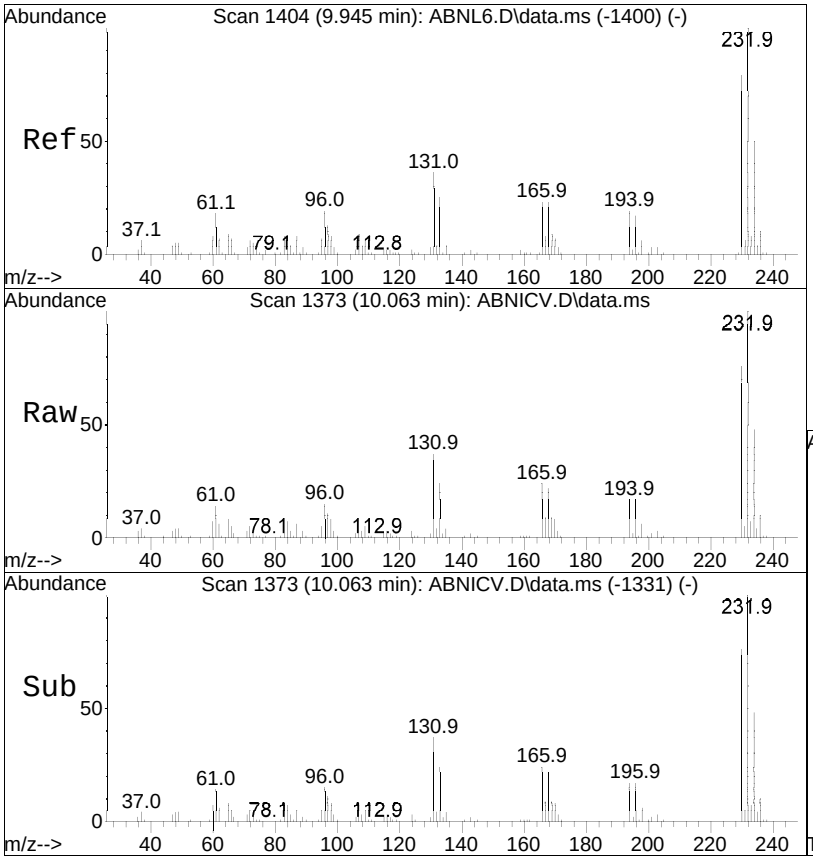


#69
4-Nitrophenol
Concen: 5.17 ug/ml
RT: 9.922 min Scan# 1349
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 65 Resp: 50008

Ion	Ratio	Lower	Upper
65	100		
109	77.7	47.4	71.2#
139	111.9	76.6	115.0

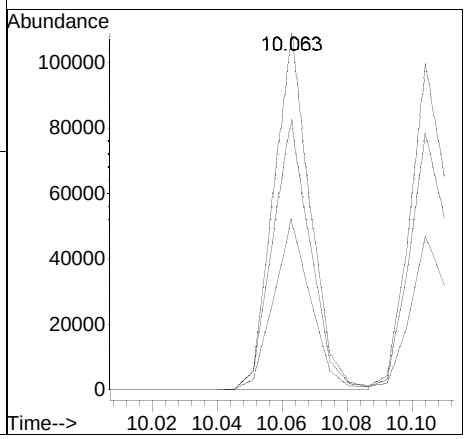


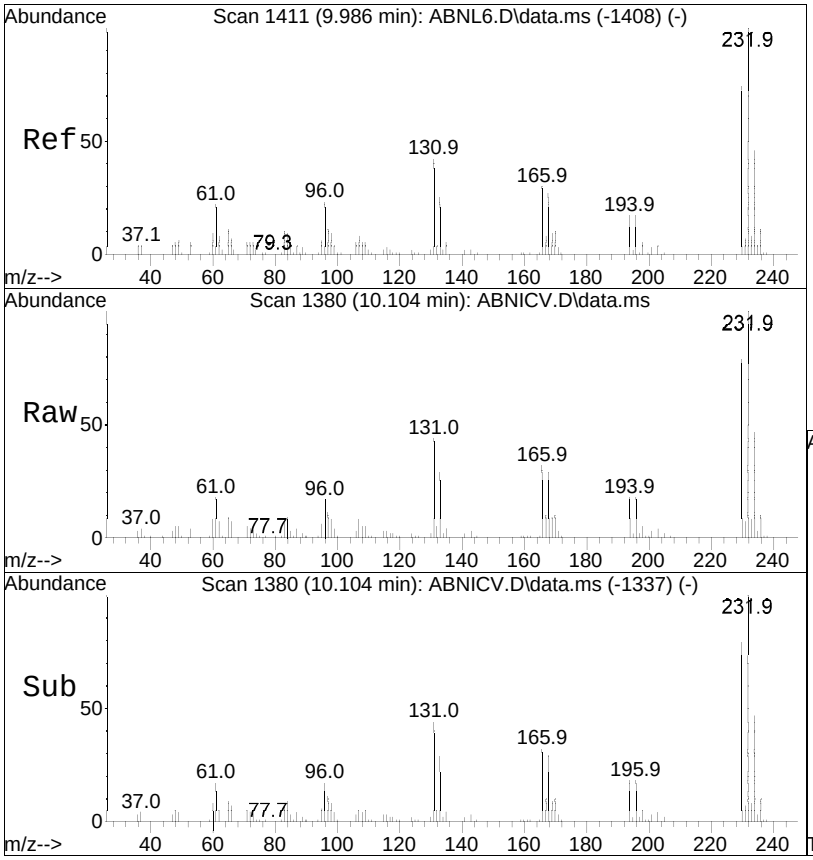


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.40 ug/ml
RT: 10.063 min Scan# 1373
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:232 Resp: 85379

Ion	Ratio	Lower	Upper
232	100		
230	78.0	64.2	96.4
234	48.4	38.1	57.1

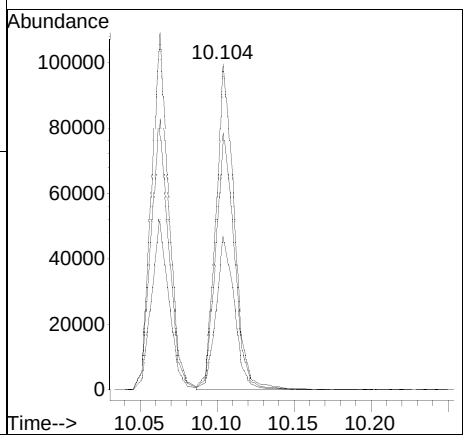


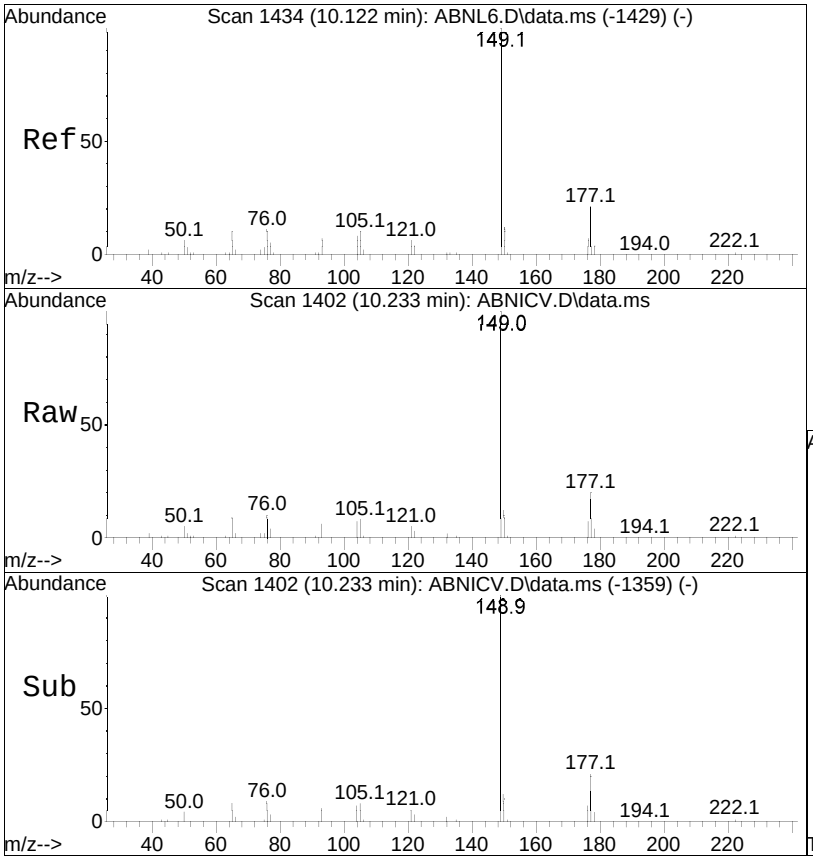


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.36 ug/ml
RT: 10.104 min Scan# 1380
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:232 Resp: 83604

Ion	Ratio	Lower	Upper
232	100		
230	80.2	61.8	92.8
234	47.1	36.2	54.2

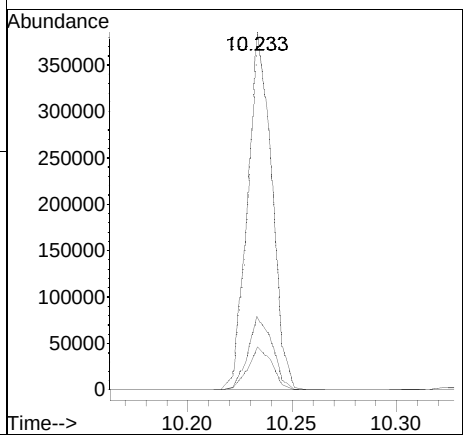


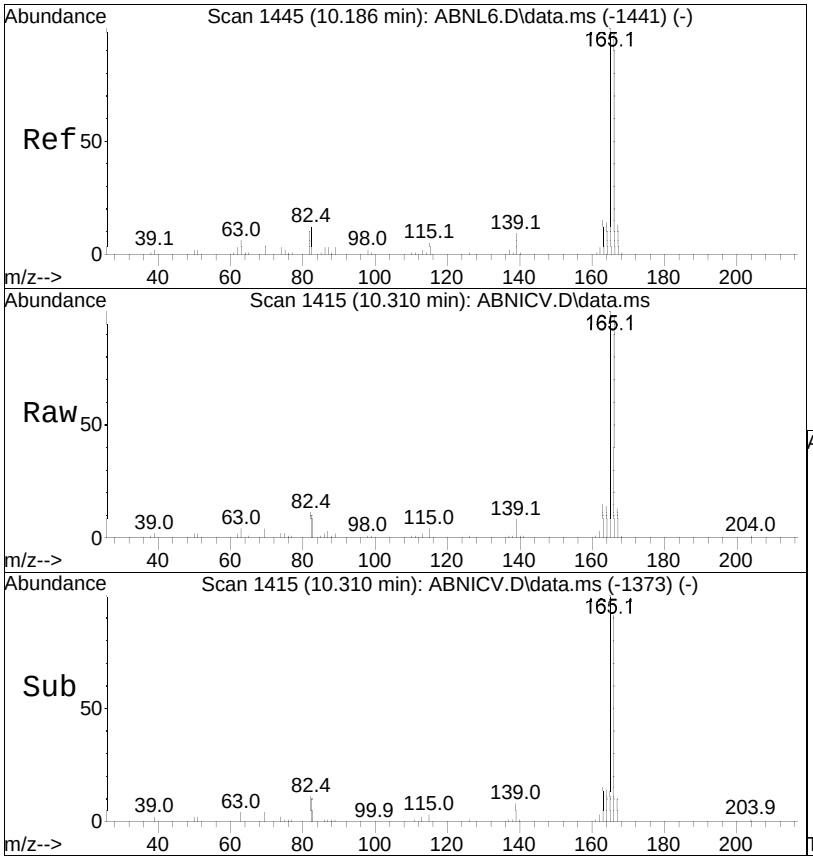


#72
Diethyl phthalate
Concen: 5.00 ug/ml
RT: 10.233 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 307265

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.1	24.1
150	12.1	9.4	14.2

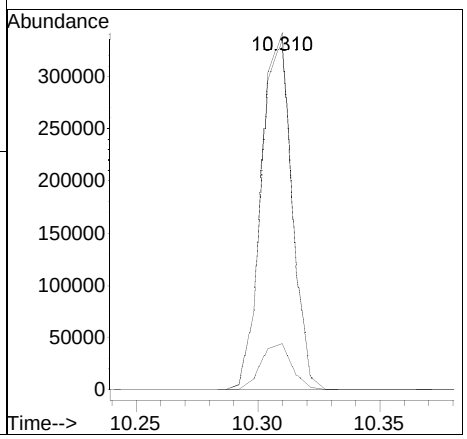


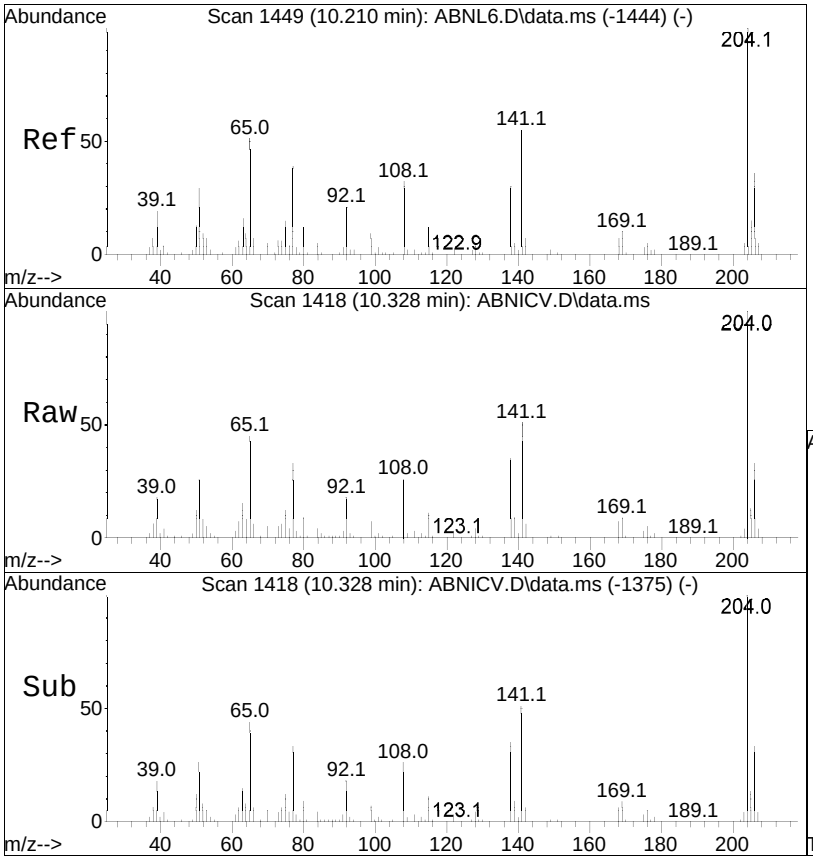


#73
Fluorene
Concen: 4.98 ug/ml
RT: 10.310 min Scan# 1415
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:166 Resp: 294821

Ion	Ratio	Lower	Upper
166	100		
165	101.7	76.2	114.2
167	13.4	10.6	15.8

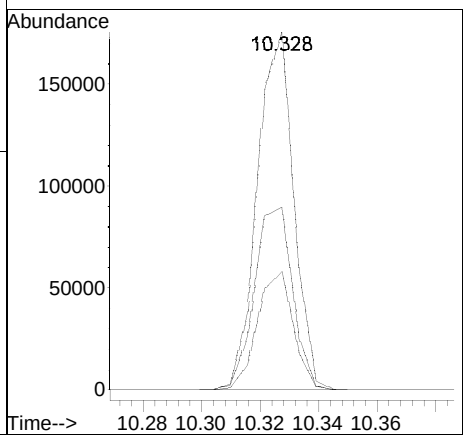


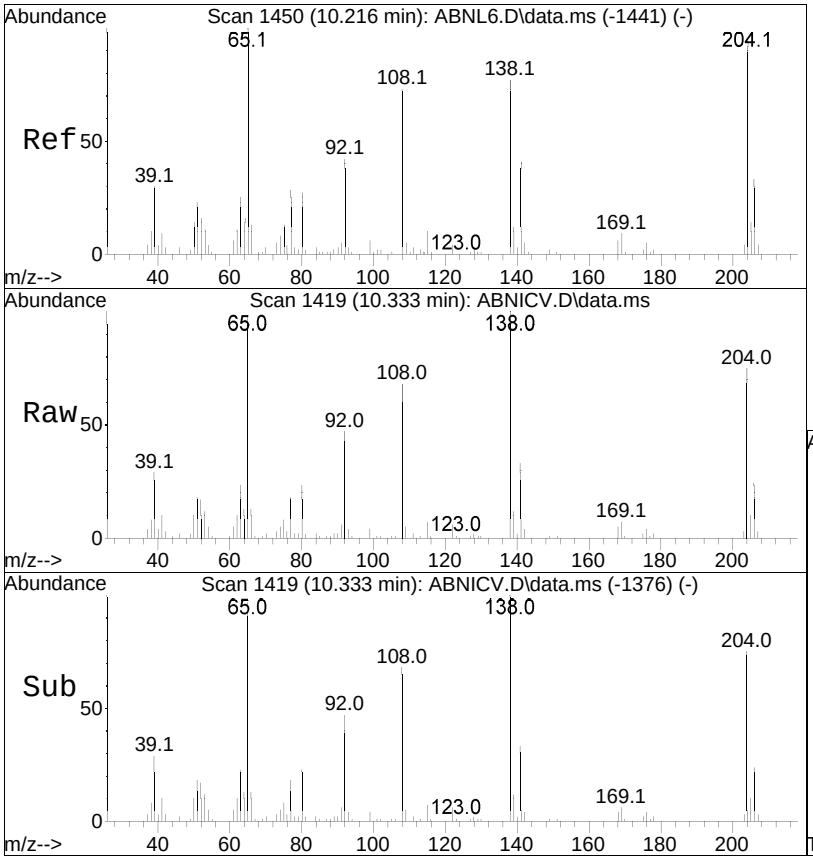


#74
4-Chlorophenyl phenyl ether
Concen: 4.94 ug/ml
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:204 Resp: 150045

Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.6
141	54.0	53.6	80.4

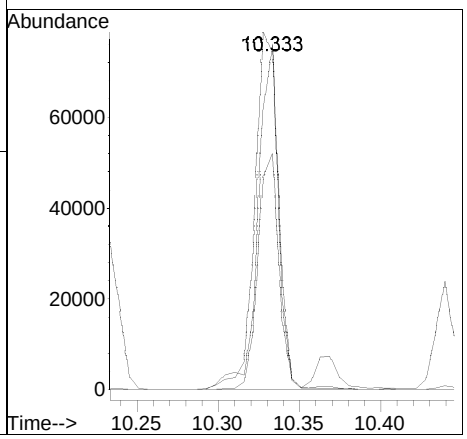


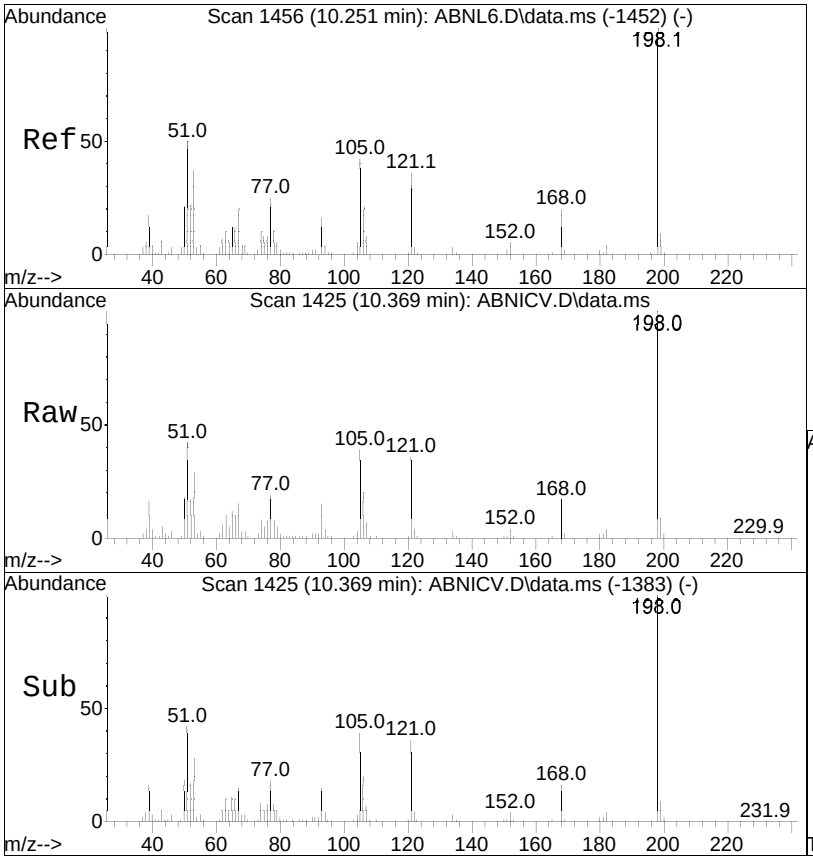


#75
4-Nitroaniline
Concen: 5.13 ug/ml
RT: 10.333 min Scan# 1419
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:138 Resp: 68272

Ion	Ratio	Lower	Upper
138	100		
108	68.0	52.1	78.1
65	112.7	115.0	172.6#

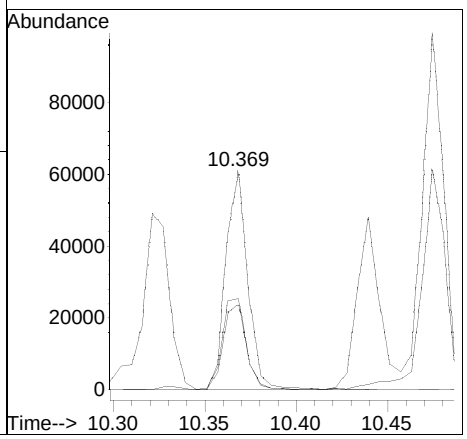


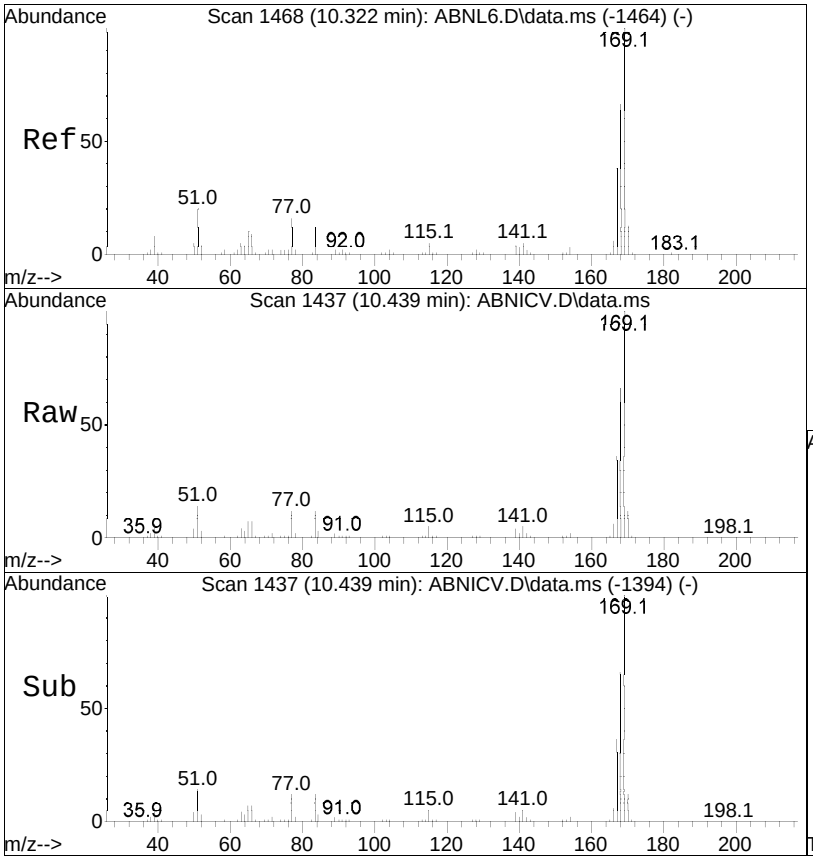


#76
4,6-Dinitro-o-cresol
Concen: 4.55 ug/ml
RT: 10.369 min Scan# 1425
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:198 Resp: 51882

Ion	Ratio	Lower	Upper
198	100		
51	44.5	76.0	114.0#
105	41.8	45.6	68.4#

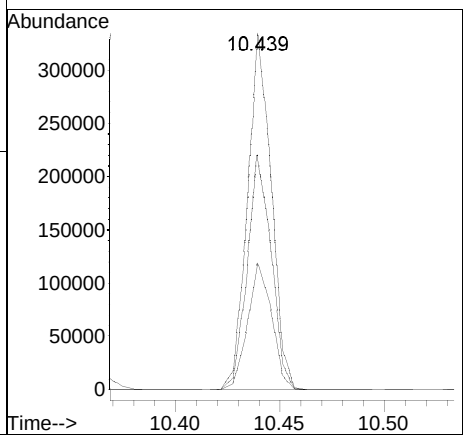


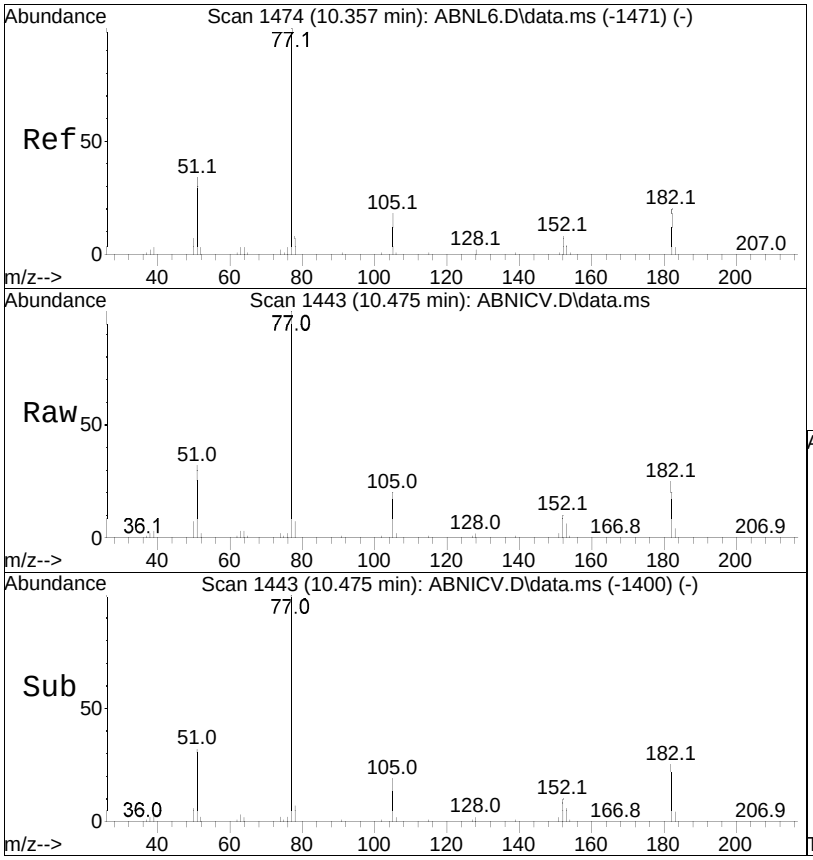


#77
NDPA/DPA
Concen: 5.18 ug/ml
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:169 Resp: 264255

Ion	Ratio	Lower	Upper
169	100		
168	66.4	54.0	81.0
167	36.1	28.6	42.8

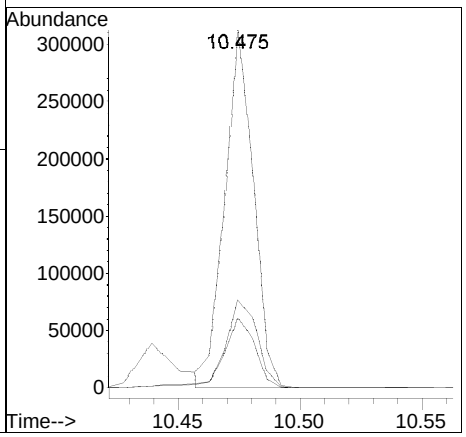


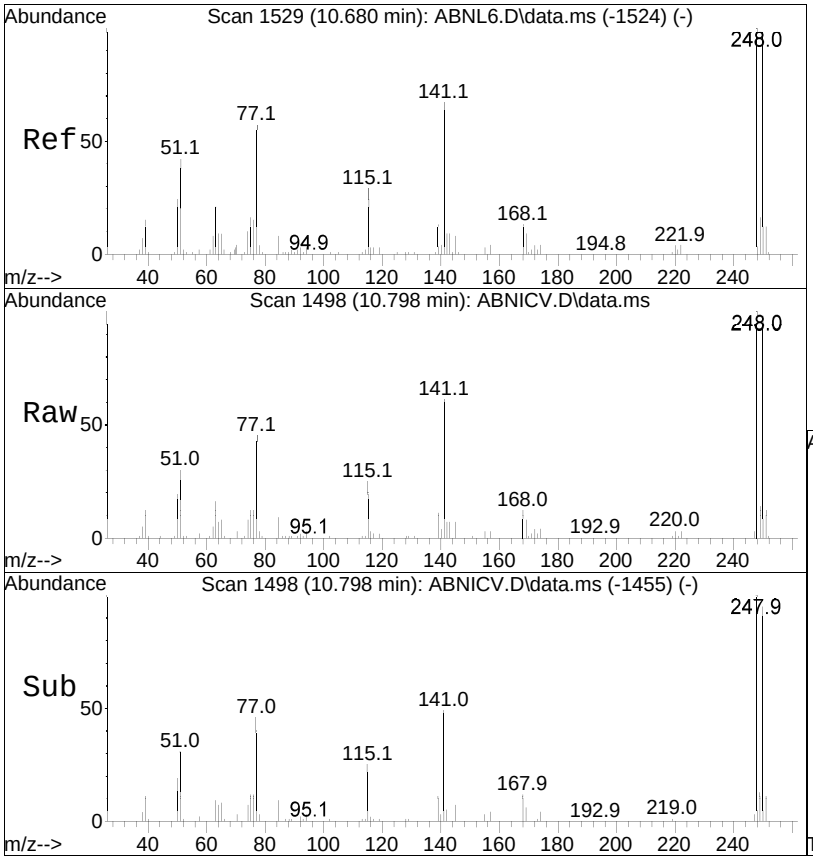


#78
Azobenzene
Concen: 5.06 ug/ml
RT: 10.475 min Scan# 1443
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion: 77 Resp: 252540

Ion	Ratio	Lower	Upper
77	100		
182	28.4	17.4	26.2#
105	22.1	15.4	23.2

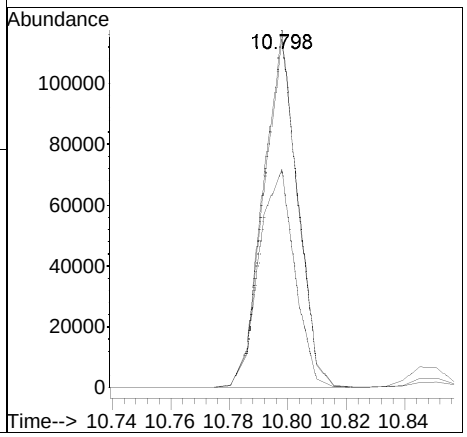


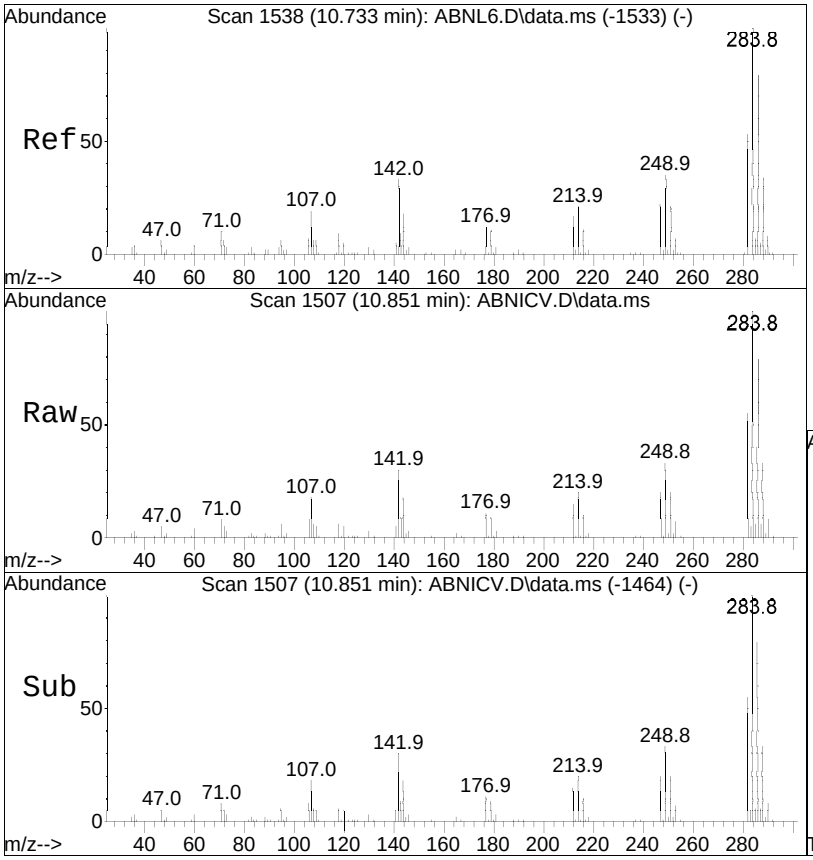


#80
4-Bromophenyl phenyl ether
Concen: 4.99 ug/ml
RT: 10.798 min Scan# 1498
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:248 Resp: 93831

Ion	Ratio	Lower	Upper
248	100		
141	64.5	76.6	114.8#
250	97.4	77.3	115.9

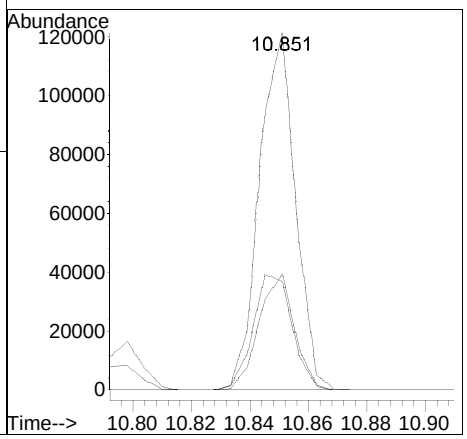


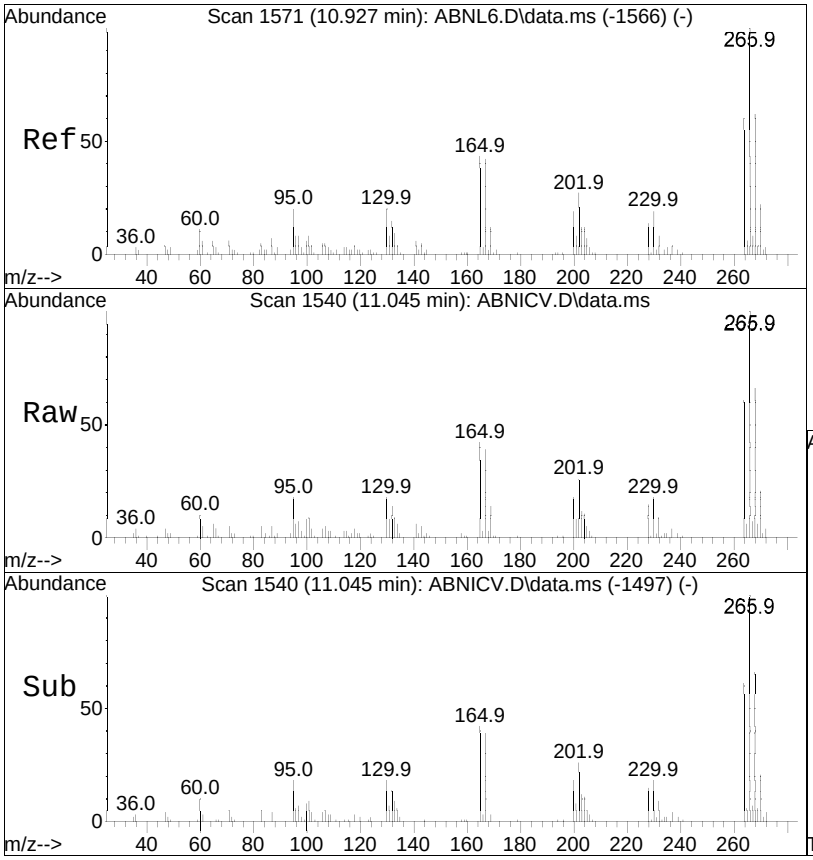


#81
Hexachlorobenzene
Concen: 4.86 ug/ml
RT: 10.851 min Scan# 1507
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:284 Resp: 103516

Ion	Ratio	Lower	Upper
284	100		
142	35.1	41.9	62.9#
249	32.1	24.1	36.1

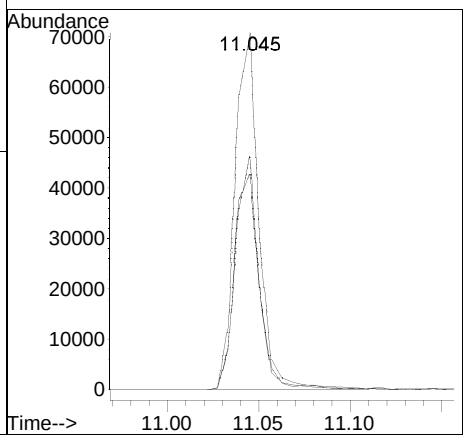


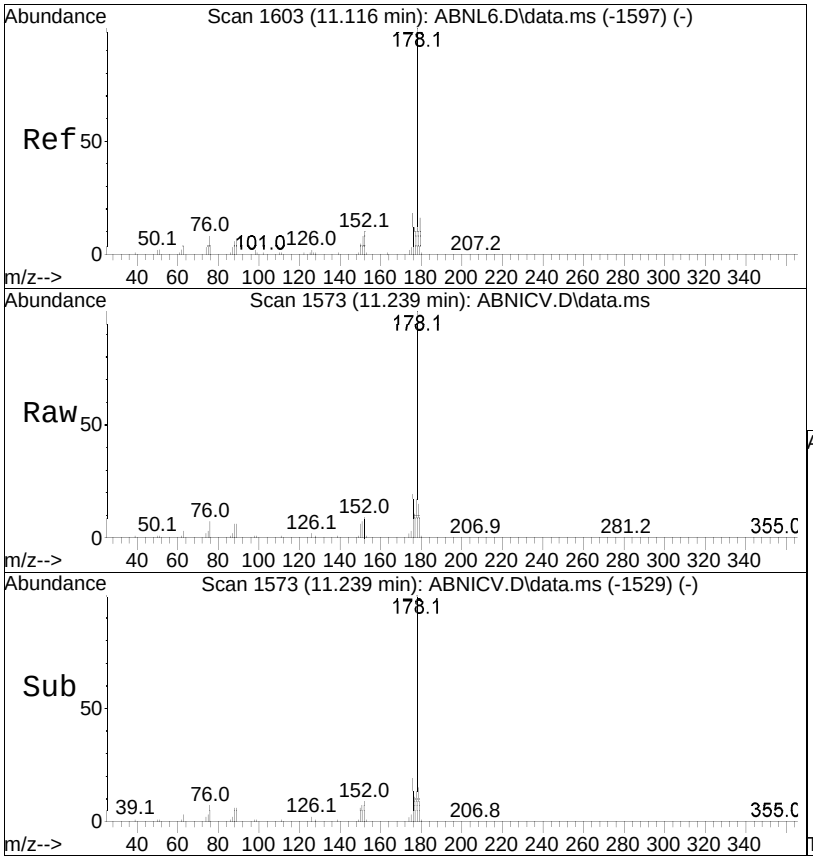


#82
Pentachlorophenol
Concen: 5.02 ug/ml
RT: 11.045 min Scan# 1540
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:266 Resp: 64691

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.7	74.5
268	64.2	50.5	75.7

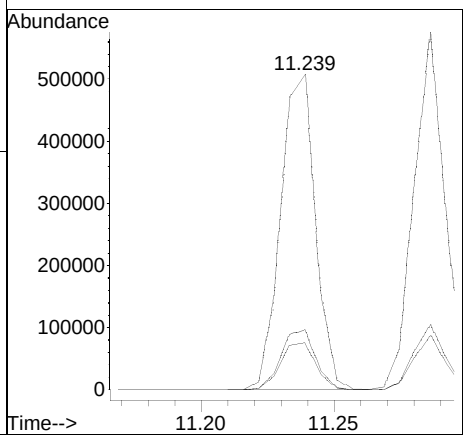


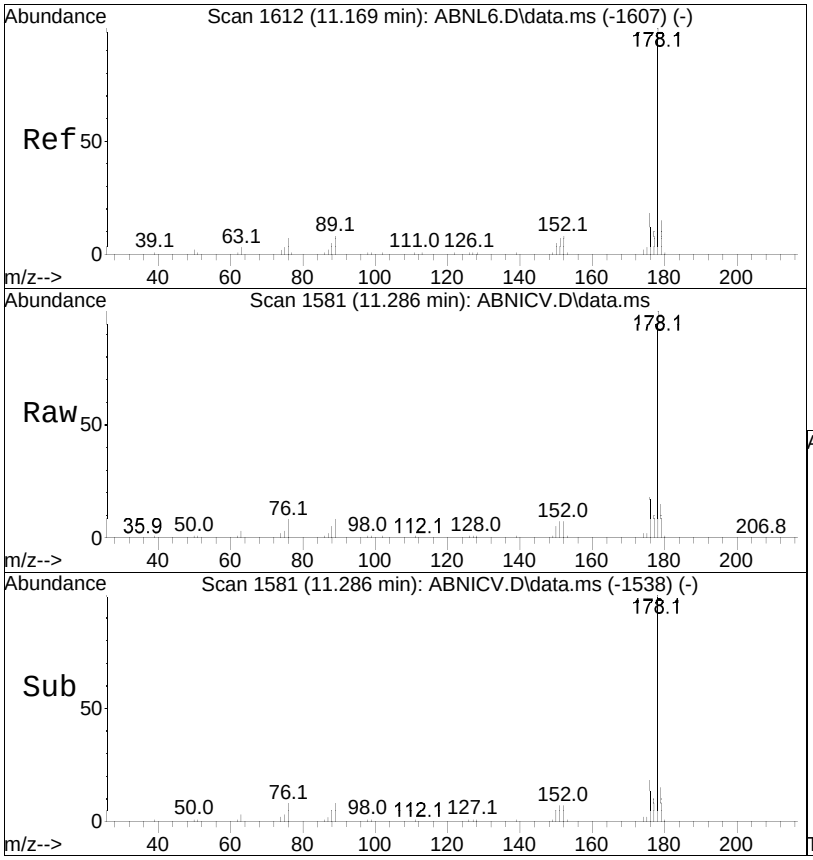


#89
Phenanthrene
Concen: 4.98 ug/ml
RT: 11.239 min Scan# 1573
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:178 Resp: 462471

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	18.9	15.4	23.2

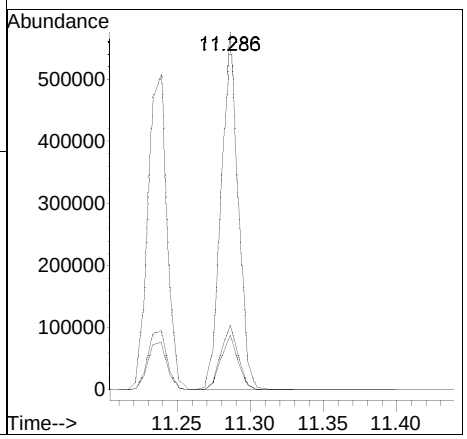


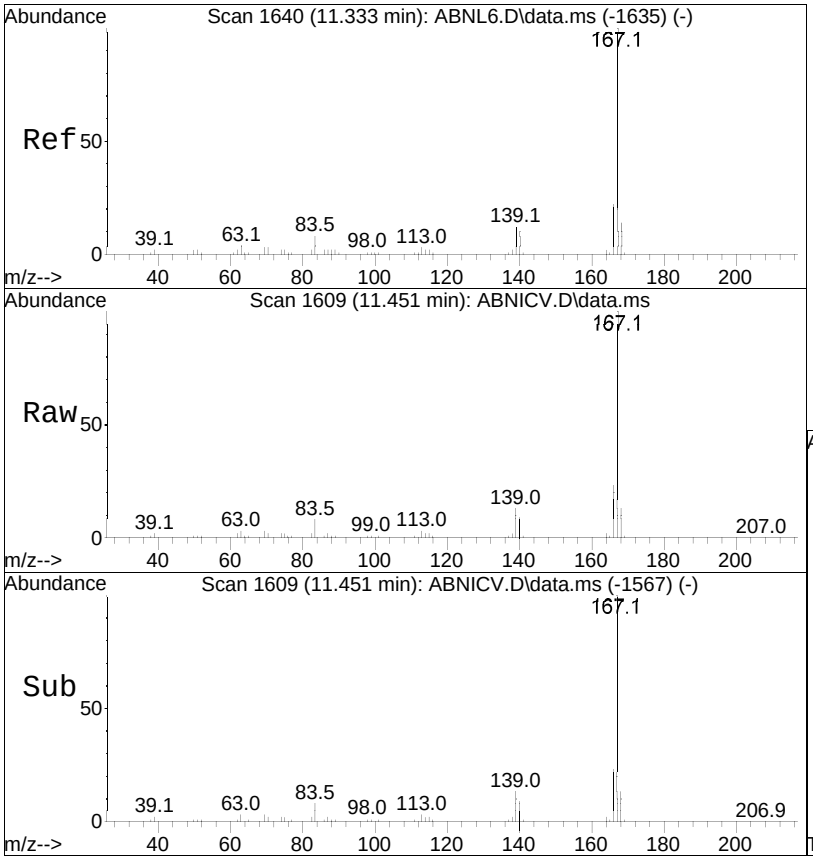


#90
Anthracene
Concen: 5.03 ug/ml
RT: 11.286 min Scan# 1581
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:178 Resp: 465973

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	18.4	14.6	22.0

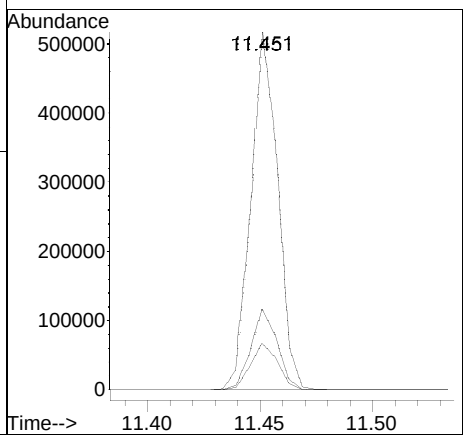


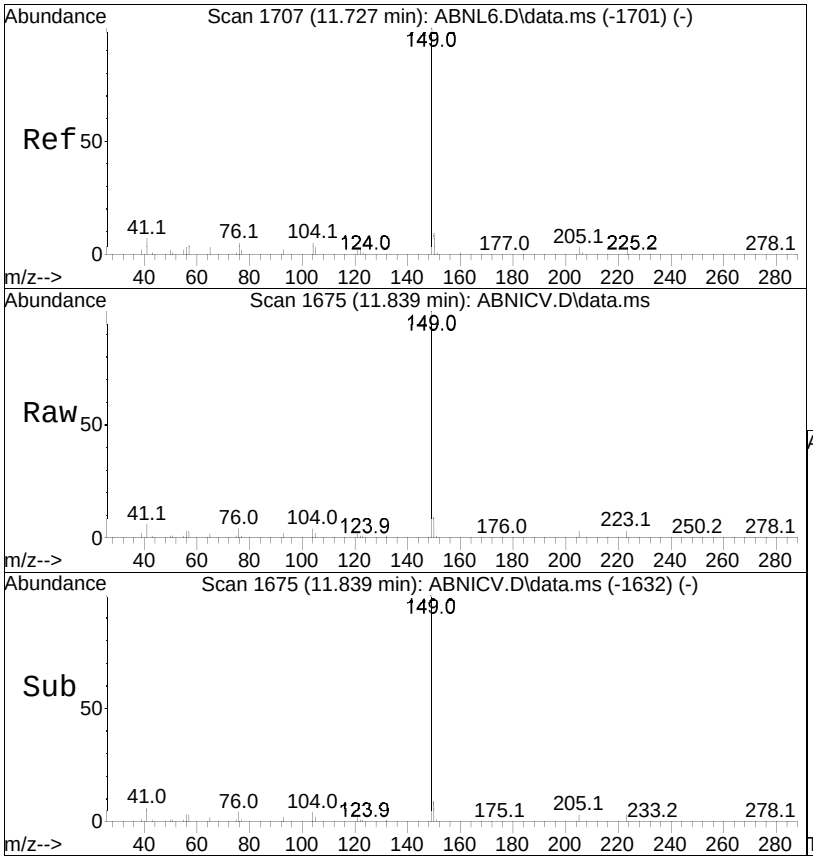


#91
Carbazole
Concen: 5.07 ug/ml
RT: 11.451 min Scan# 1609
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:167 Resp: 423253

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.2	17.4	26.0

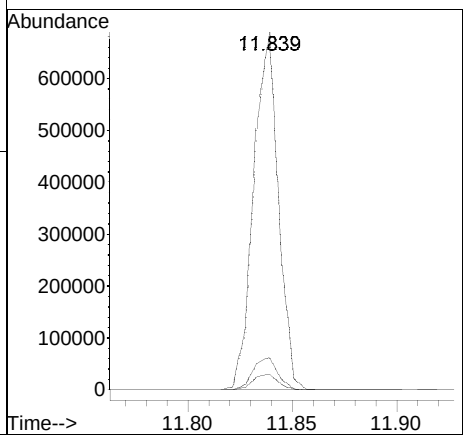


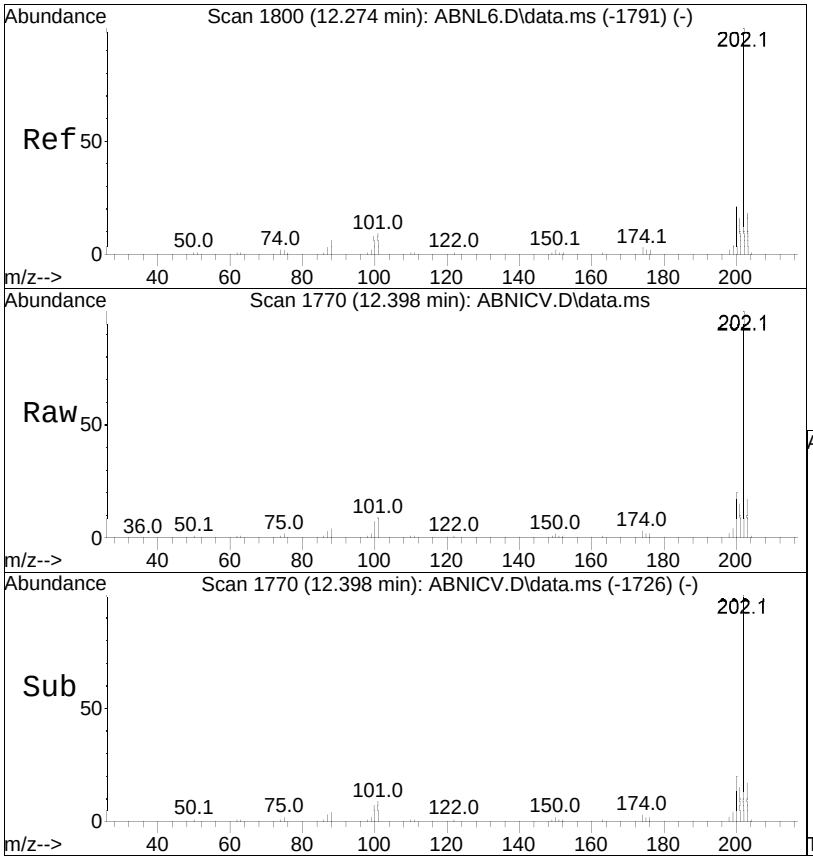


#92
Di-n-butylphthalate
Concen: 5.33 ug/ml
RT: 11.839 min Scan# 1675
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 556869

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.6	4.5	6.7

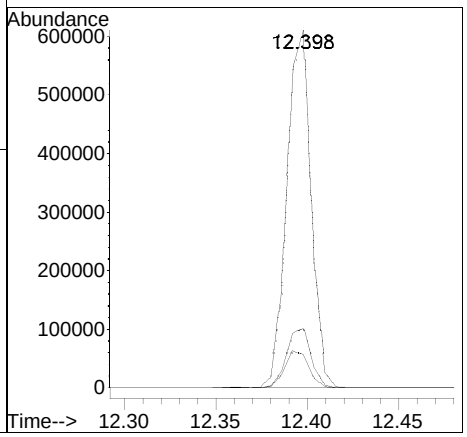


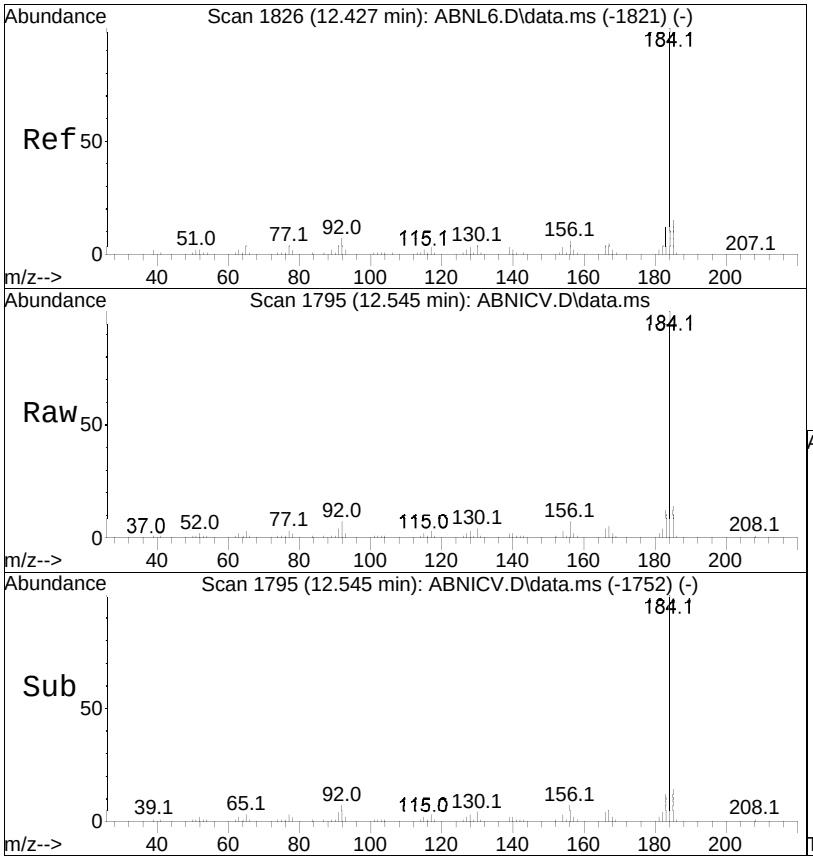


#93
Fluoranthene
Concen: 5.20 ug/ml
RT: 12.398 min Scan# 1770
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:202 Resp: 557525

Ion	Ratio	Lower	Upper
202	100		
101	10.5	13.5	20.3#
203	17.2	13.6	20.4

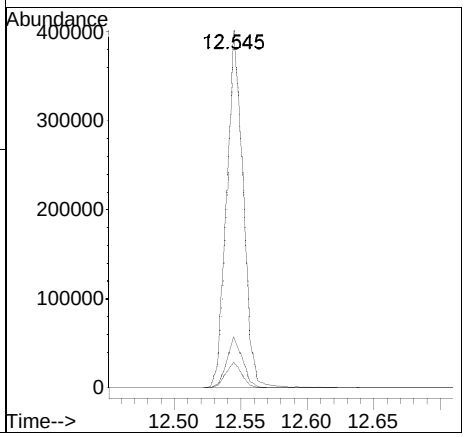


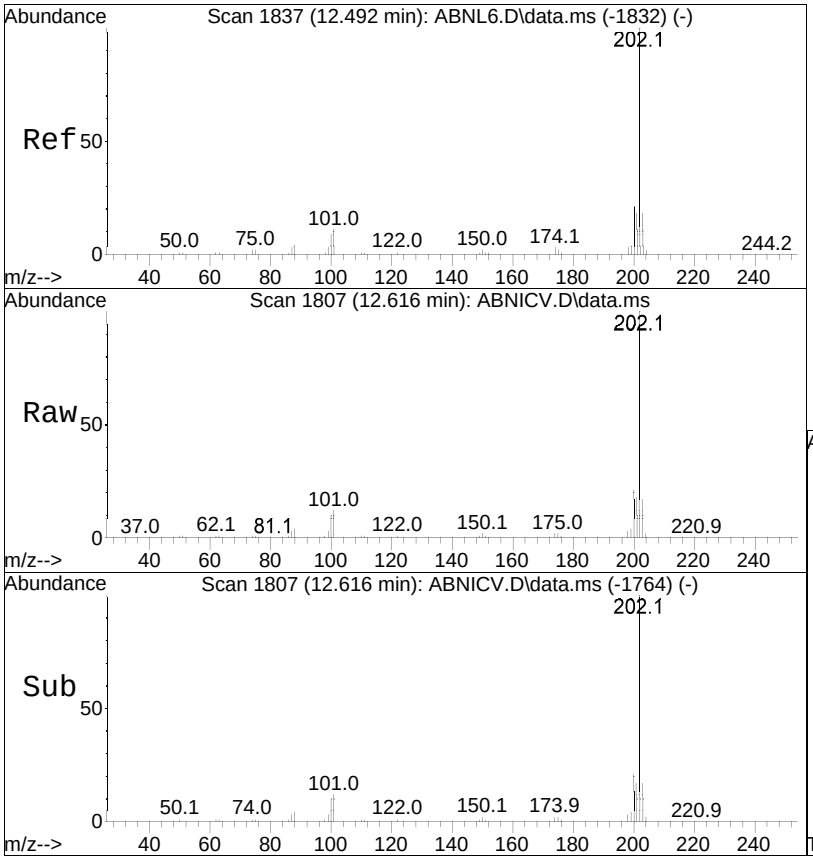


#94
Benzidine
Concen: 5.53 ug/ml
RT: 12.545 min Scan# 1795
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:184 Resp: 339703

Ion	Ratio	Lower	Upper
184	100		
92	7.2	9.1	13.7#
185	14.0	11.1	16.7

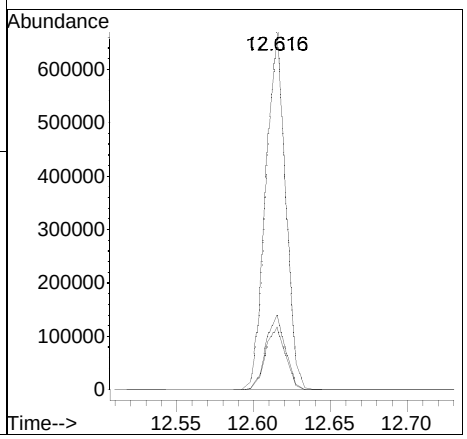


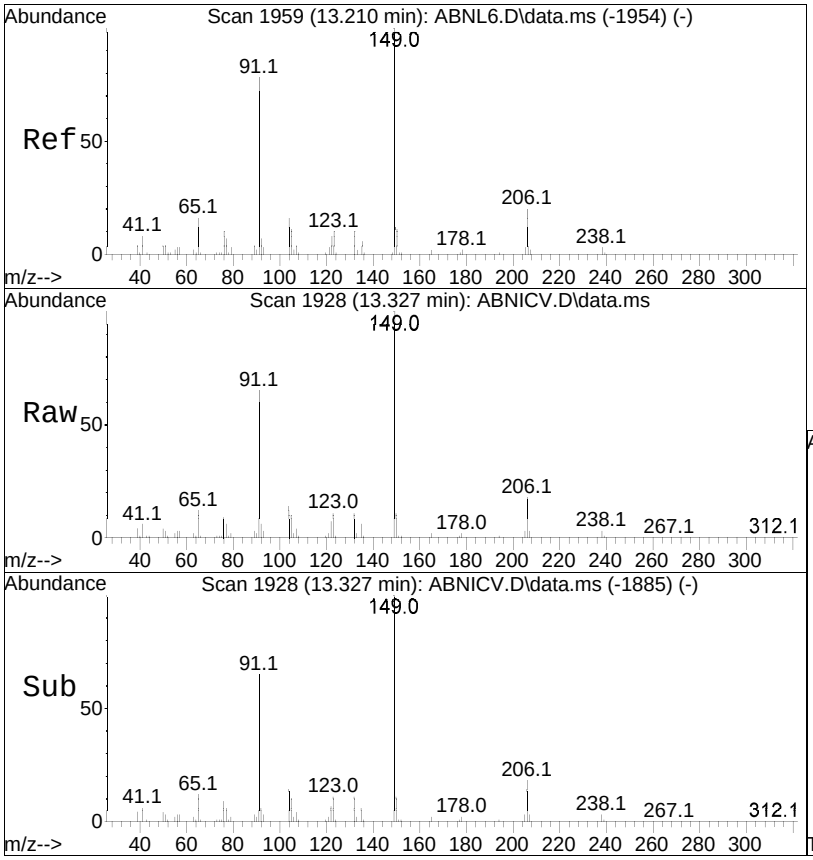


#95
Pyrene
Concen: 5.25 ug/ml
RT: 12.616 min Scan# 1807
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:202 Resp: 593234

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.9	14.2	21.4

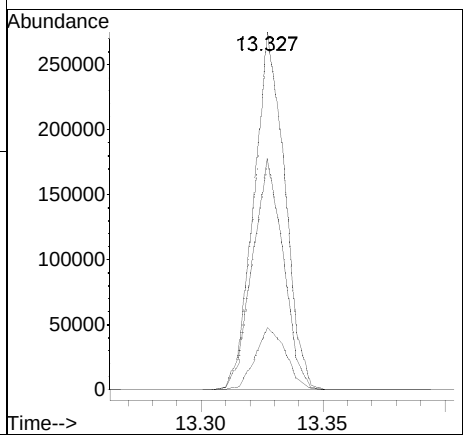


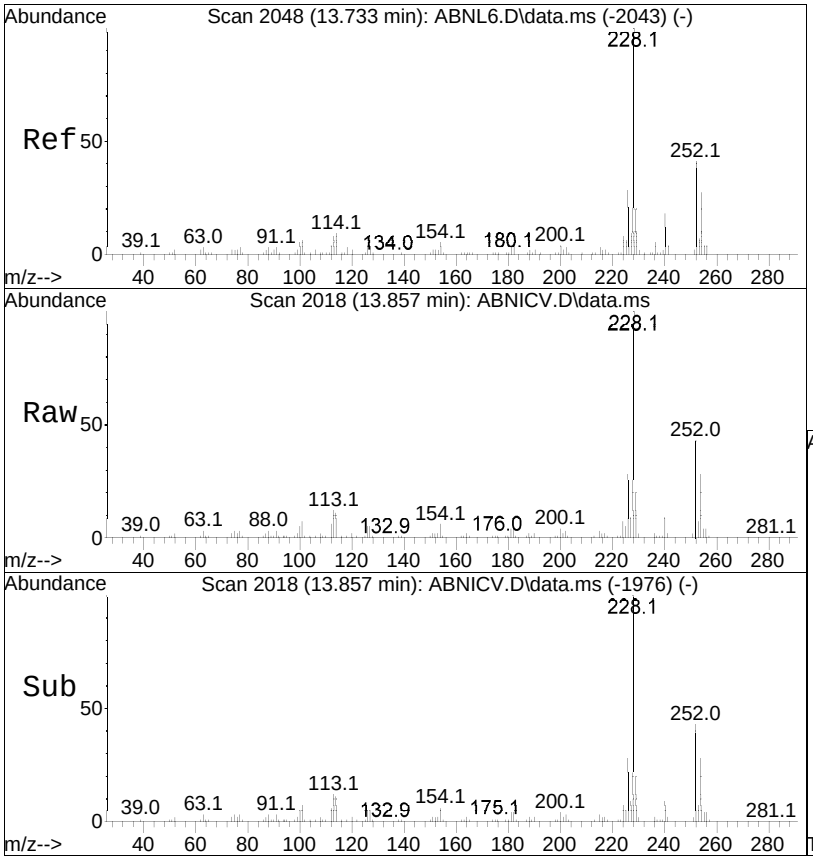


#97
Butyl benzyl phthalate
Concen: 5.44 ug/ml
RT: 13.327 min Scan# 1928
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 238944

Ion	Ratio	Lower	Upper
149	100		
91	65.0	63.3	94.9
206	17.5	13.9	20.9

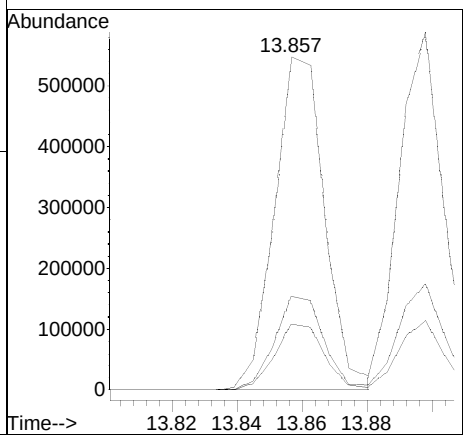


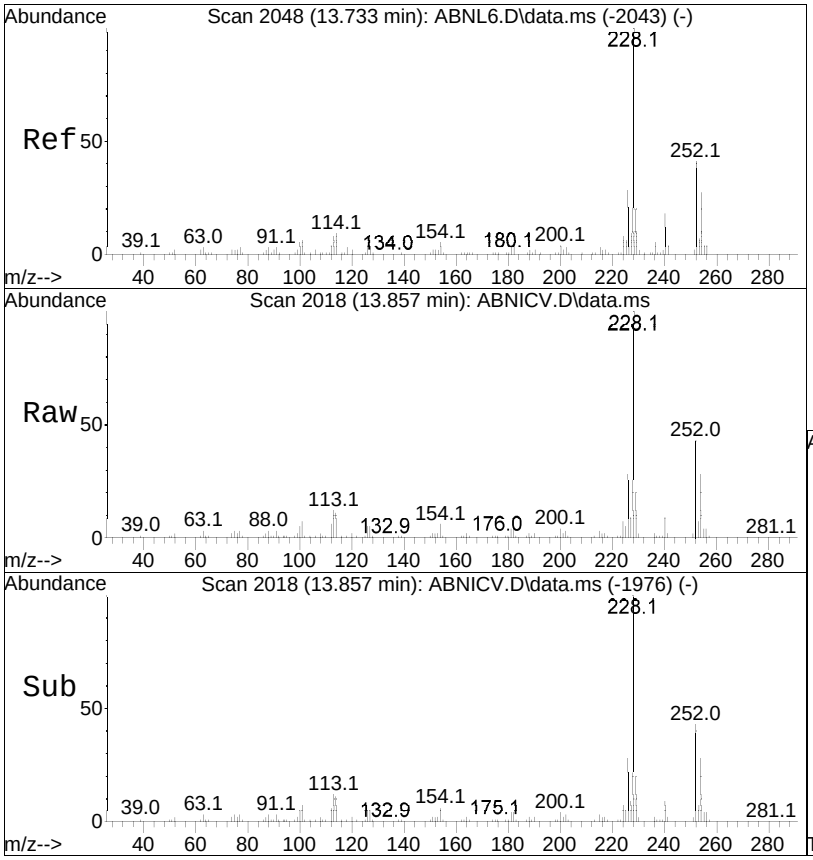


#105
Benzo(a)anthracene
Concen: 4.90 ug/ml
RT: 13.857 min Scan# 2018
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:228 Resp: 586338

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.8	15.6	23.4

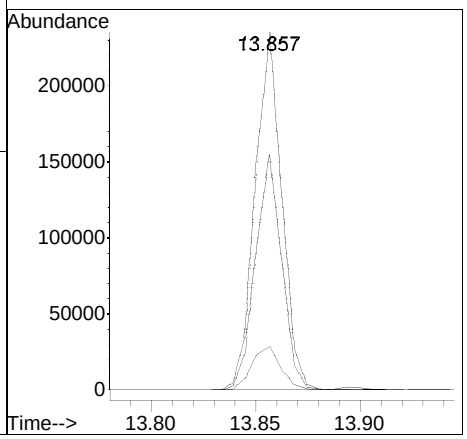


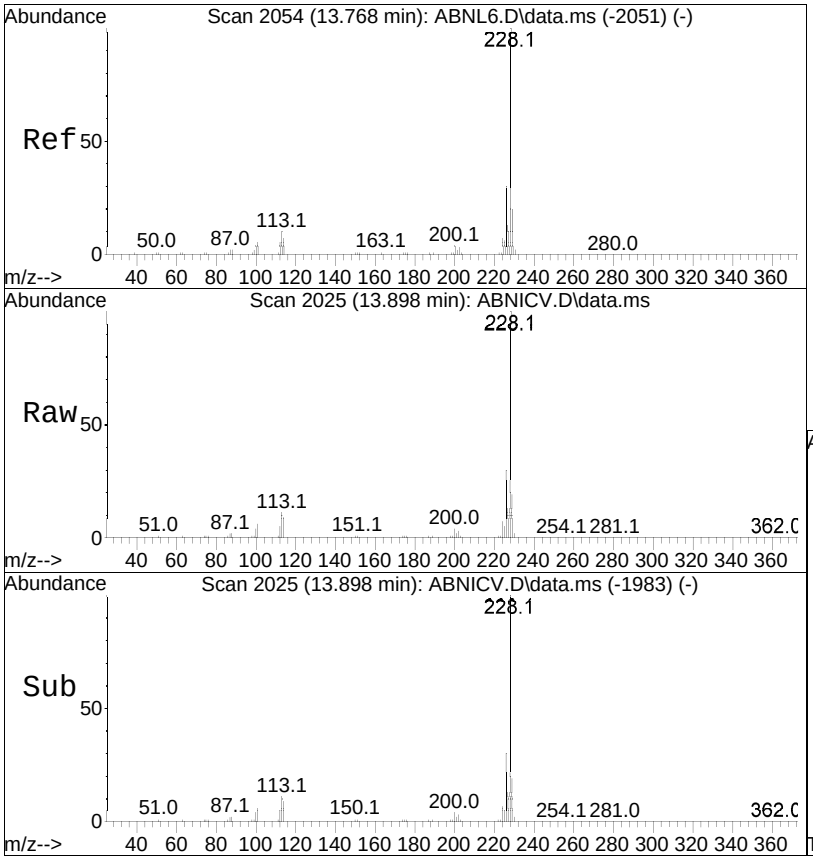


#106
3,3'-Dichlorobenzidine
Concen: 5.26 ug/ml
RT: 13.857 min Scan# 2018
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 206912

Ion	Ratio	Lower	Upper
252	100		
126	13.5	14.5	21.7#
254	65.1	51.2	76.8

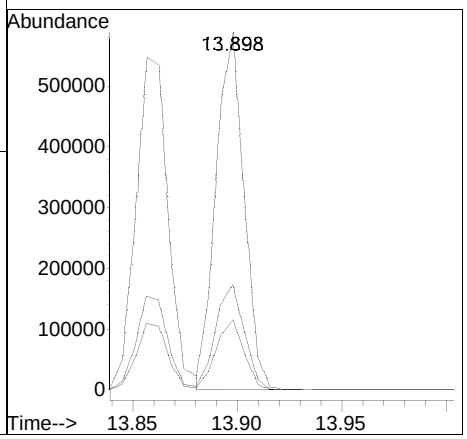


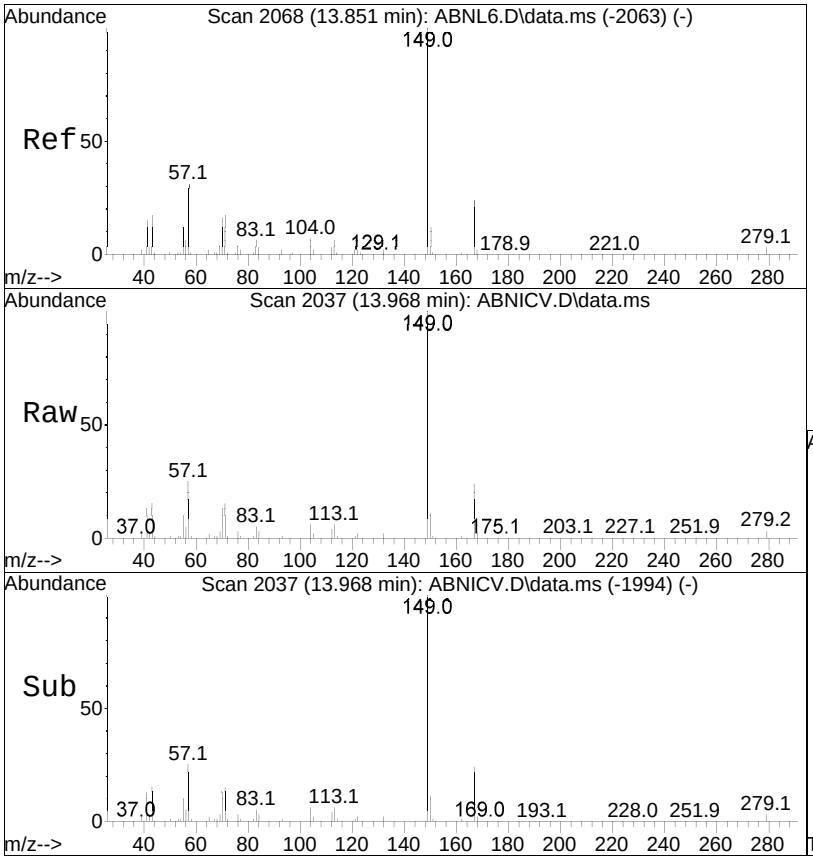


#107
Chrysene
Concen: 4.78 ug/ml
RT: 13.898 min Scan# 2025
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:228 Resp: 549197

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.4	15.8	23.8

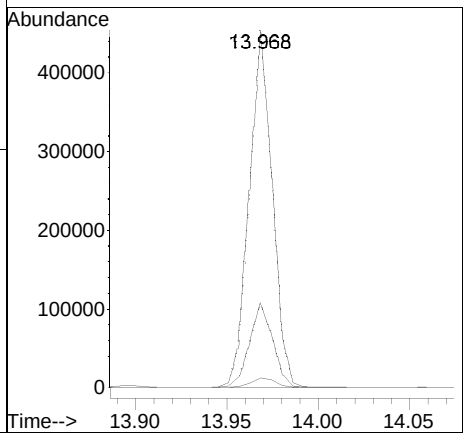


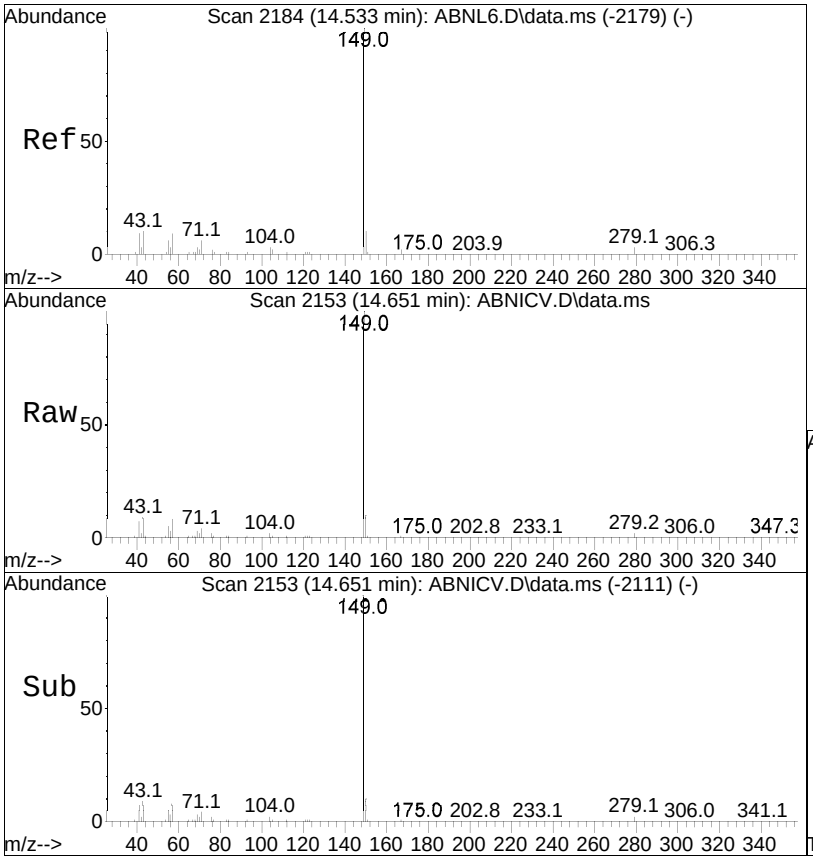


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.48 ug/ml
RT: 13.968 min Scan# 2037
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 394308

Ion	Ratio	Lower	Upper
149	100		
167	23.8	22.1	33.1
279	2.6	3.0	4.4#

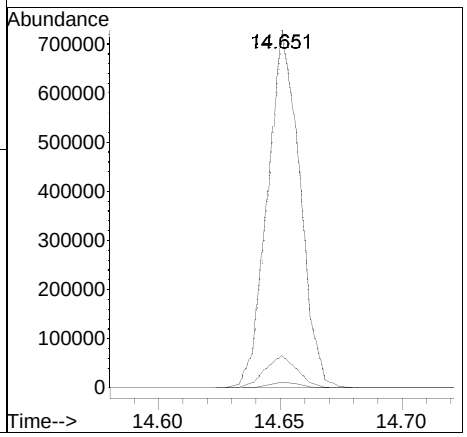


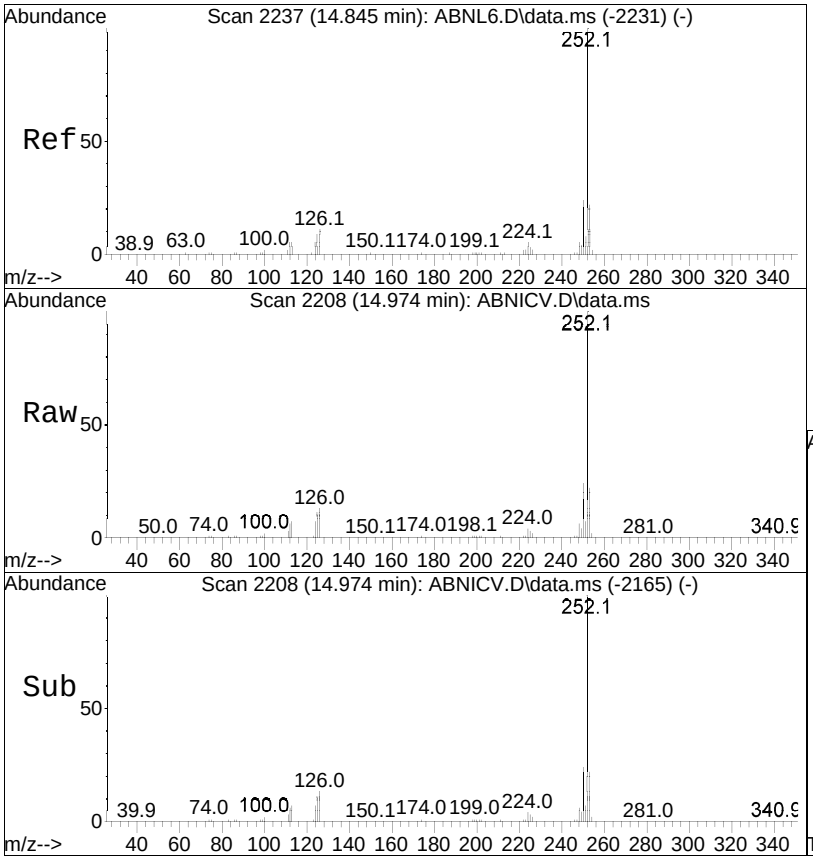


#109
Di-n-octylphthalate
Concen: 5.54 ug/ml
RT: 14.651 min Scan# 2153
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:149 Resp: 660821

Ion	Ratio	Lower	Upper
149	100		
43	9.2	18.8	28.2#
167	1.4	1.3	1.9

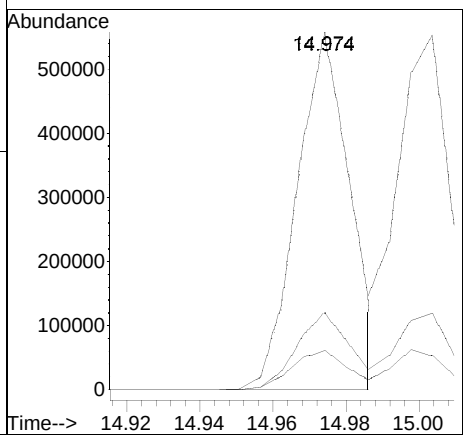


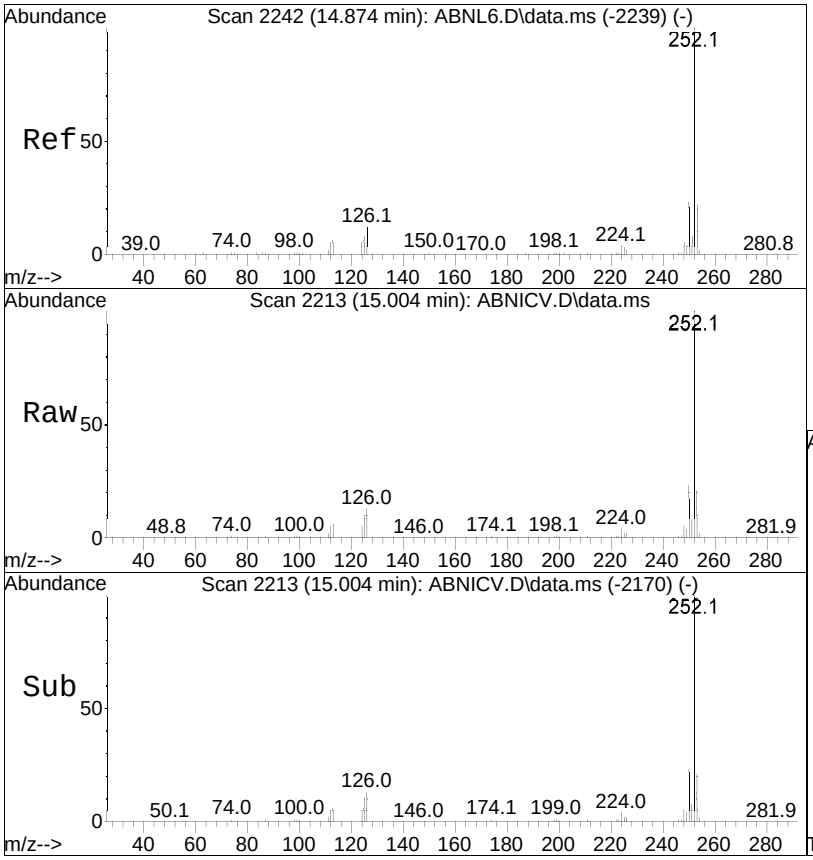


#110
Benzo(b)fluoranthene
Concen: 4.89 ug/ml
RT: 14.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 564800

Ion	Ratio	Lower	Upper
252	100		
125	11.9	13.3	19.9#
253	21.7	17.1	25.7

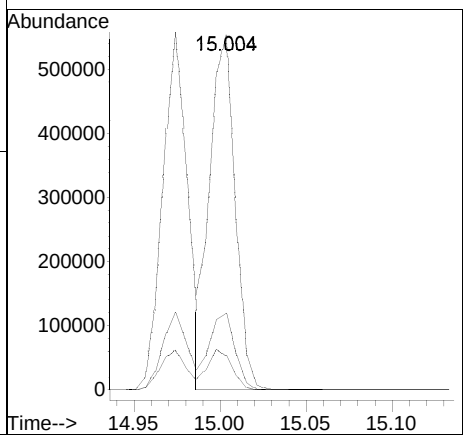


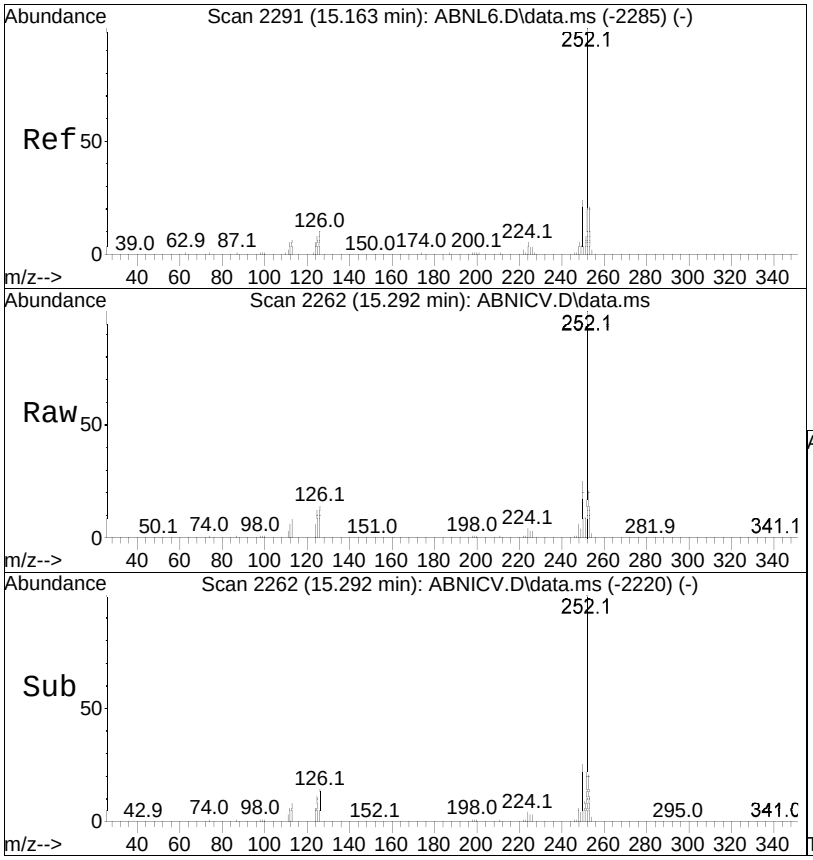


#111
Benzo(k)fluoranthene
Concen: 5.27 ug/ml
RT: 15.004 min Scan# 2213
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 567319

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	21.8	16.8	25.2

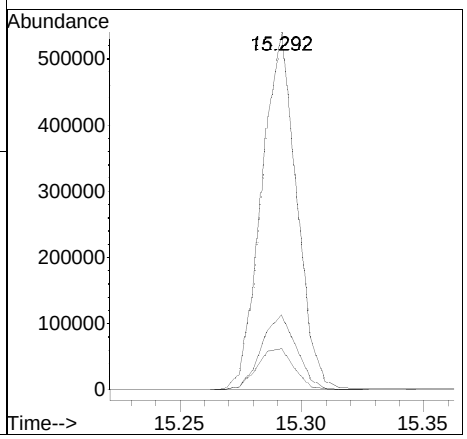


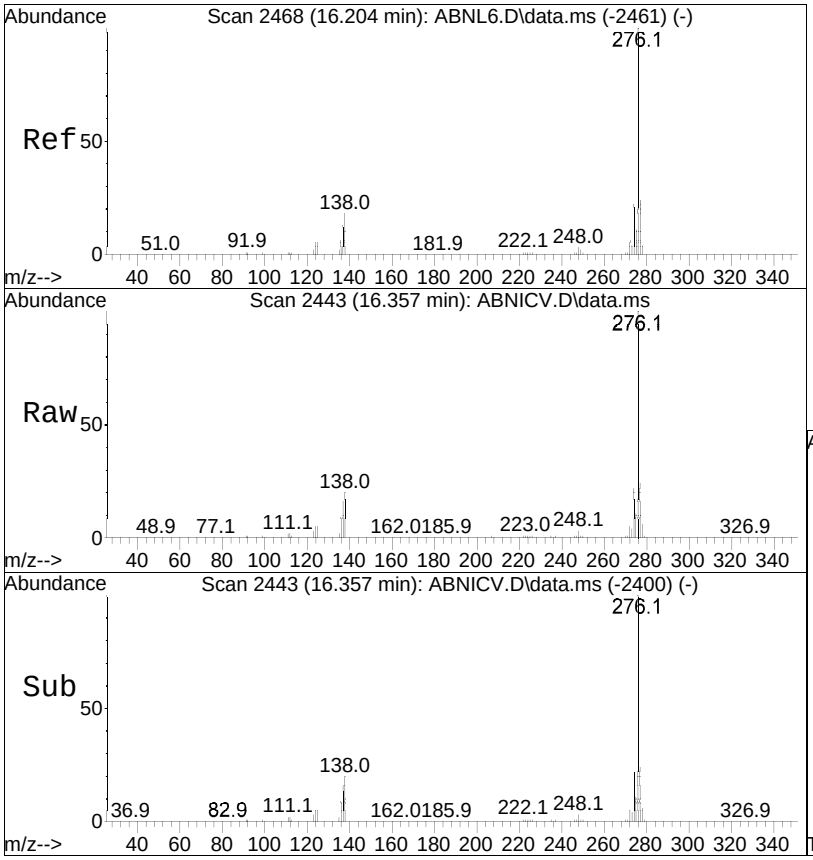


#112
Benzo(a)pyrene
Concen: 5.36 ug/ml
RT: 15.292 min Scan# 2262
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:252 Resp: 537065

Ion	Ratio	Lower	Upper
252	100		
125	12.5	14.2	21.2#
253	21.4	16.9	25.3

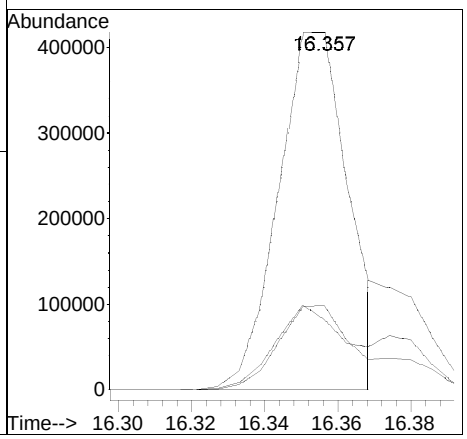


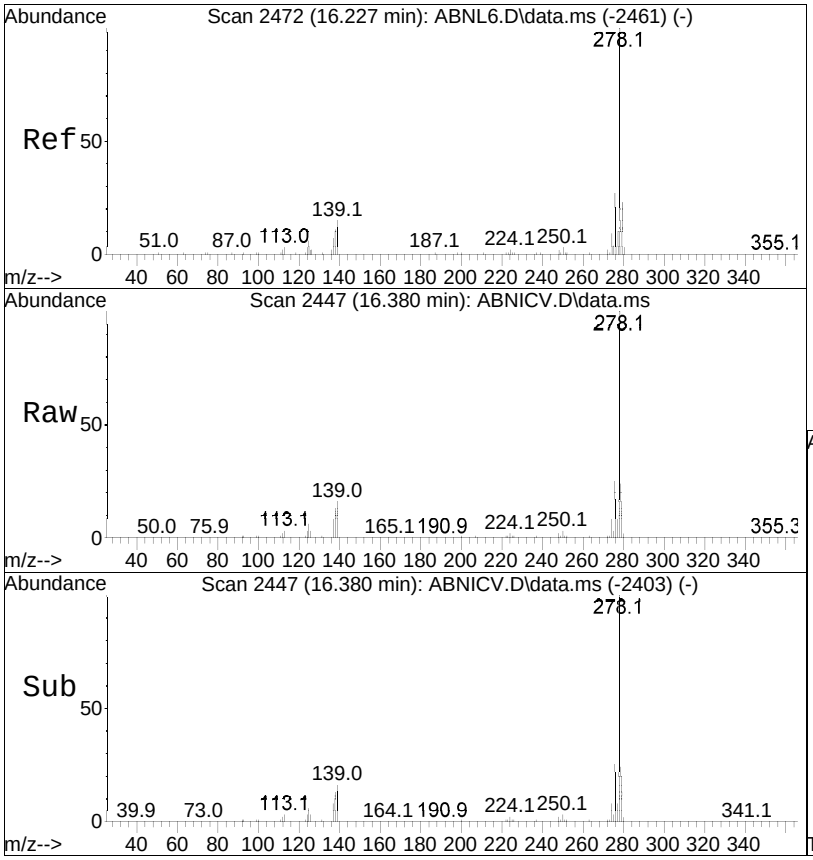


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.01 ug/mL M6
RT: 16.357 min Scan# 2443
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:276 Resp: 557701

Ion	Ratio	Lower	Upper
276	100		
138	24.8	25.1	37.7#
277	30.8	18.6	28.0#

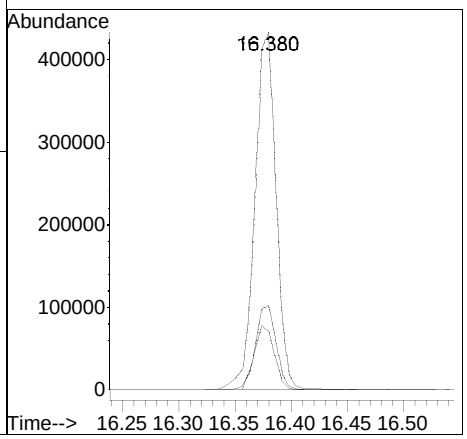


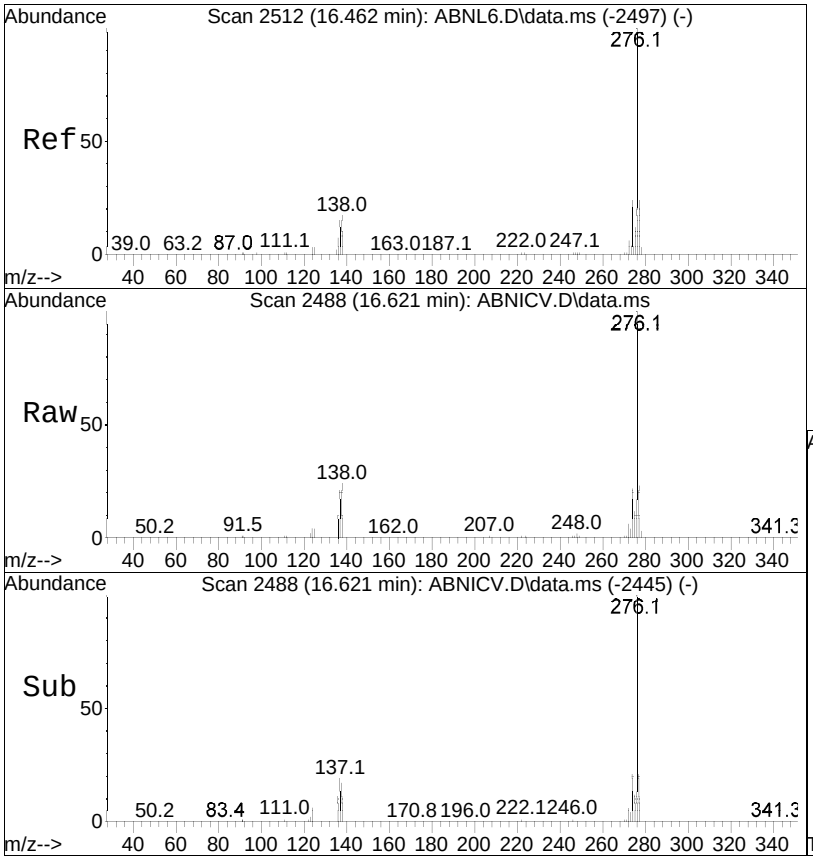


#115
Dibenzo(a,h)anthracene
Concen: 5.29 ug/ml
RT: 16.380 min Scan# 2447
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:278 Resp: 559514

Ion	Ratio	Lower	Upper
278	100		
139	17.3	20.8	31.2#
279	23.3	18.3	27.5

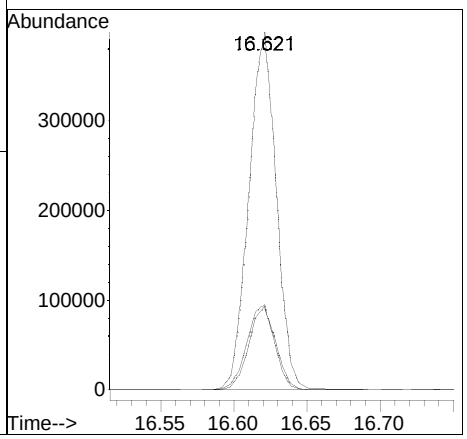




#116
Benzo(ghi)perylene
Concen: 5.18 ug/ml
RT: 16.621 min Scan# 2488
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 10 Oct 2024 3:13 am

Tgt Ion:276 Resp: 513605

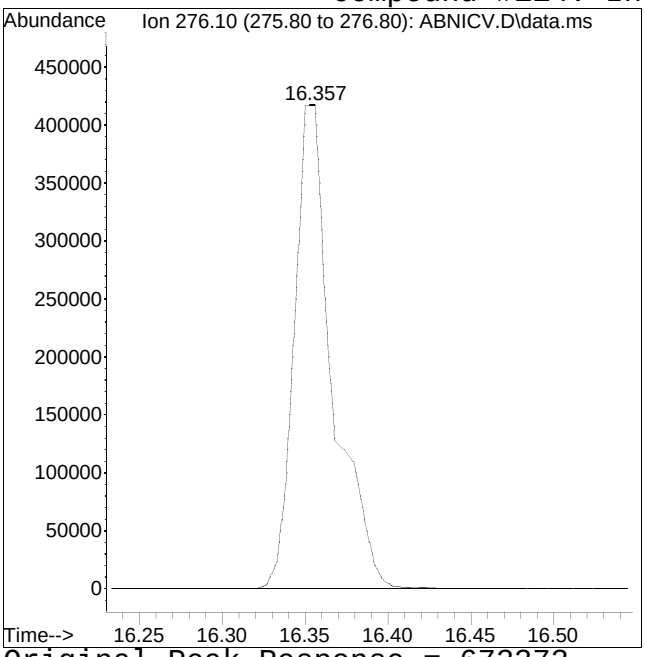
Ion	Ratio	Lower	Upper
276	100		
138	24.1	29.2	43.8#
277	23.2	18.8	28.2



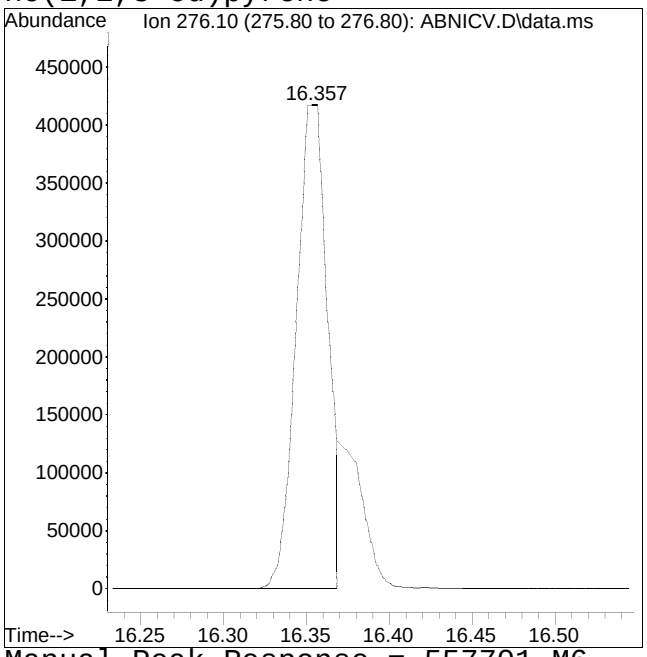
Manual Integration Report

Data Path : I:\8270\SV106\241009RVTicaQMethod : FS241009SV106.m
Data File : ABNICV.D Operator : SV106:HNY
Date Inj'd : 10/10/2024 3:13 am Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 110Quant Date : 10/16/2024 5:40 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 673373



Manual Peak Response = 557701 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9ICV.D
Acq On : 10 Oct 2024 3:37 am
Operator : SV106:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11032
Misc : WG1984388
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 11 12:12:14 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 12:10:20 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
28	T	Benzaldehyde	0.948	1.108	-16.9	116	0.00
29	T	Acetophenone	1.829	1.945	-6.3	110	0.00
30	T	m-Toluidine	1.612	1.865	-15.7	117	0.00
31	T	2-Chloroaniline	1.609	1.740	-8.1	107	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	102	0.00
56	T	a-Terpineol	0.282	0.298	-5.7	109	0.00
57	T	3-Chloroaniline	0.132	0.150	-13.6	109	0.00
58	T	2,6-Dichlorophenol	0.300	0.327	-9.0	108	0.00
59	T	1-chloro-2-nitrobenzene	0.145	0.158	-9.0	110	0.00
60	T	Caprolactam	0.147	0.159	-8.2	108	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.402	0.422	-5.0	108	0.00
62	T	Biphenyl	0.907	0.959	-5.7	106	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	104	0.00
84	T	Dichloran	0.181	0.188	-3.9	109	0.00
85	T	Pentachloronitrobenzene	0.193	0.202	-4.7	105	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	100	0.00
99	T	Diphenamid	0.505	0.546	-8.1	103	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9ICV.D
Acq On : 10 Oct 2024 3:37 am
Operator : SV106:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11032
Misc : WG1984388
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 11 12:12:14 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 12:10:20 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241009RVTical\ABNL6.D
: 2 - I:\8270\SV106\241009RVTical\ADPL6.D
: 3 - I:\8270\SV106\241009RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.604	152	69862	4.000	ug/ml	0.00
Standard Area 3 = 68577			Recovery =	101.87%		
55) IS2_Naphthalene-d8	8.010	136	266878	4.000	ug/ml	# 0.00
Standard Area 3 = 261108			Recovery =	102.21%		
83) IS2_Acenaphthene-d10	9.769	164	159521	4.000	ug/ml	0.00
Standard Area 3 = 153971			Recovery =	103.60%		
98) IS2_Phenanthrene-d10	11.216	188	324327	4.000	ug/ml	0.00
Standard Area 3 = 324206			Recovery =	100.04%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	6.040	105	96802	5.849	ug/ml	95
29) Acetophenone	7.087	105	169891	5.319	ug/ml#	80
30) m-Toluidine	7.187	106	162885	5.784	ug/ml	95
31) 2-Chloroaniline	7.587	127	151975	5.407	ug/ml#	92
56) a-Terpineol	8.075	59	99379	5.279	ug/ml#	83
57) 3-Chloroaniline	8.092	65	49908	5.646	ug/ml	97
58) 2,6-Dichlorophenol	8.122	162	109210	5.457	ug/ml#	85
59) 1-chloro-2-nitrobenzene	8.387	111	52627	5.425	ug/ml#	1
60) Caprolactam	8.422	55	53050	5.421	ug/ml#	67
61) 1,2,4,5-Tetrachloroben...	8.922	216	140652	5.246	ug/ml	97
62) Biphenyl	9.222	154	320073	5.290	ug/ml	99
84) Dichloran	10.904	206	37449	5.186	ug/ml#	70
85) Pentachloronitrobenzene	11.057	237	40333	5.233	ug/ml#	80
99) Diphenamid	12.116	167	221467	5.410	ug/ml#	79

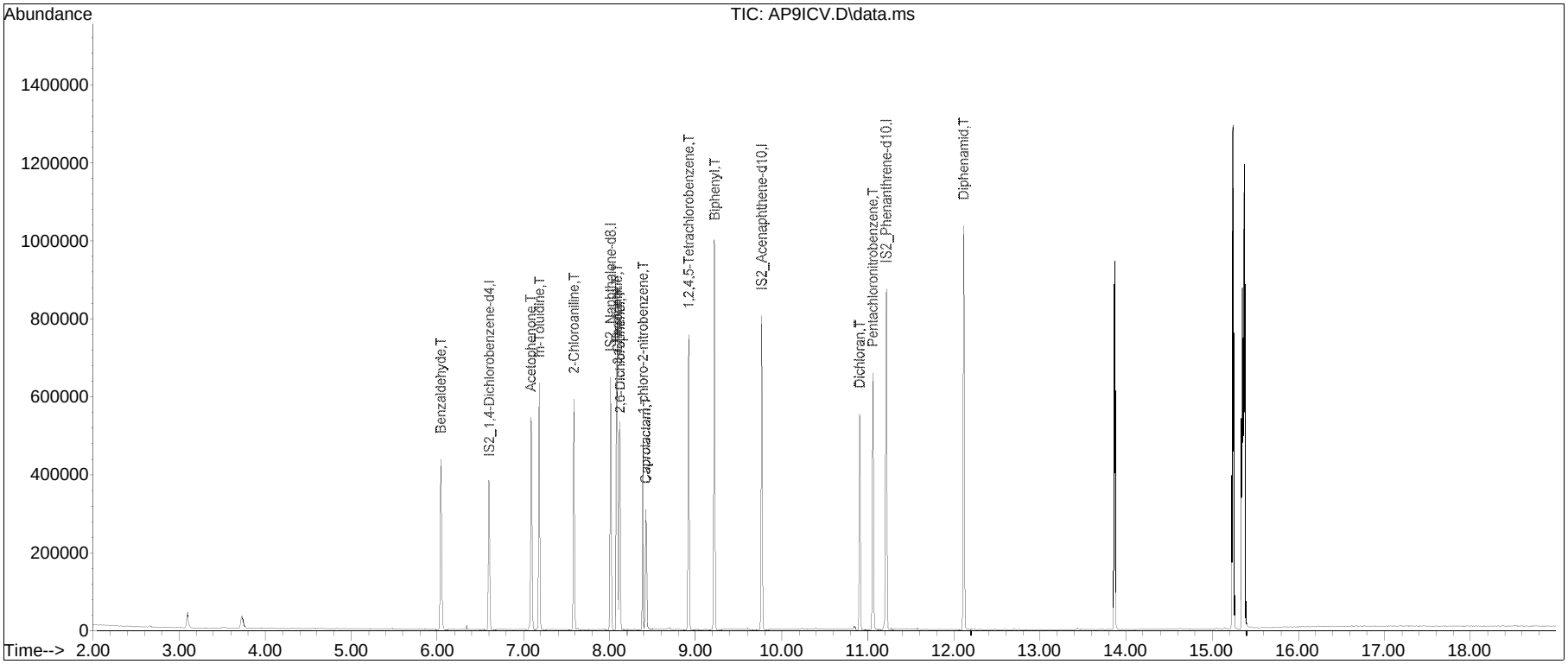
(#) = qualifier out of range (m) = manual integration (+) = signals summed

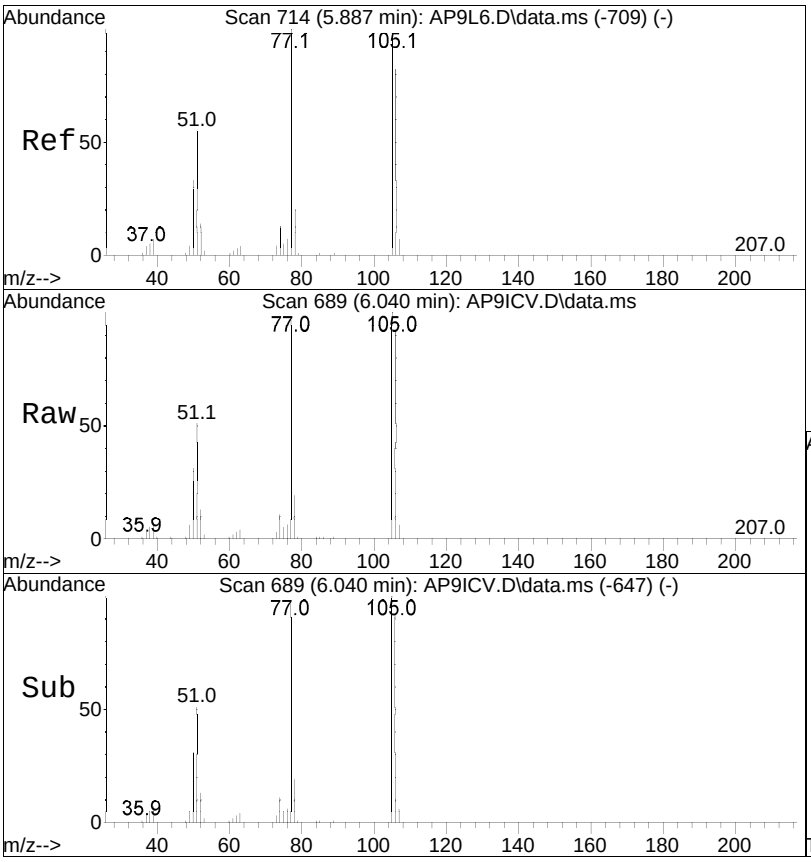
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : AP9ICV.D
Acq On : 10 Oct 2024 3:37 am
Operator : SV106:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11032
Misc : WG1984388
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 11 12:12:14 2024
Quant Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 12:10:20 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

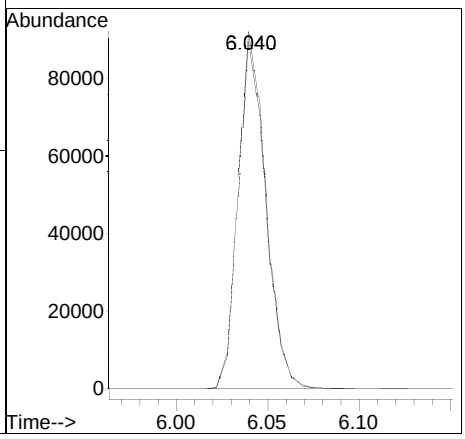


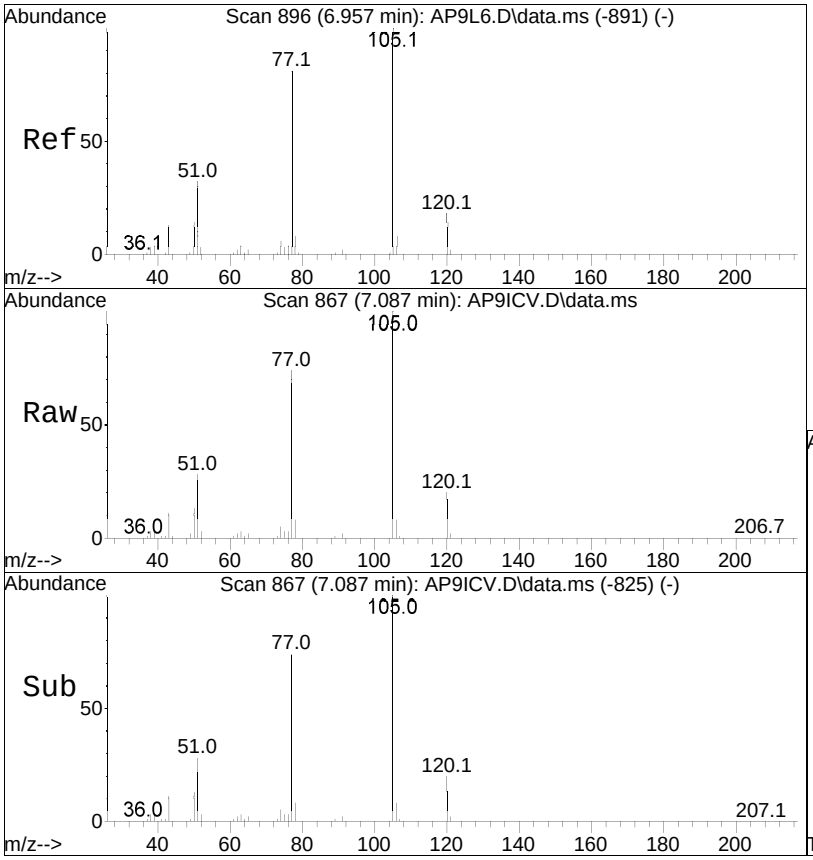


#28
Benzaldehyde
Concen: 5.85 ug/ml
RT: 6.040 min Scan# 689
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:105 Resp: 96802

Ion	Ratio	Lower	Upper
105	100		
77	97.3	82.2	123.4

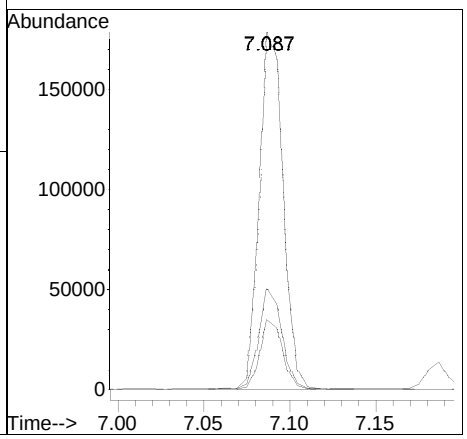


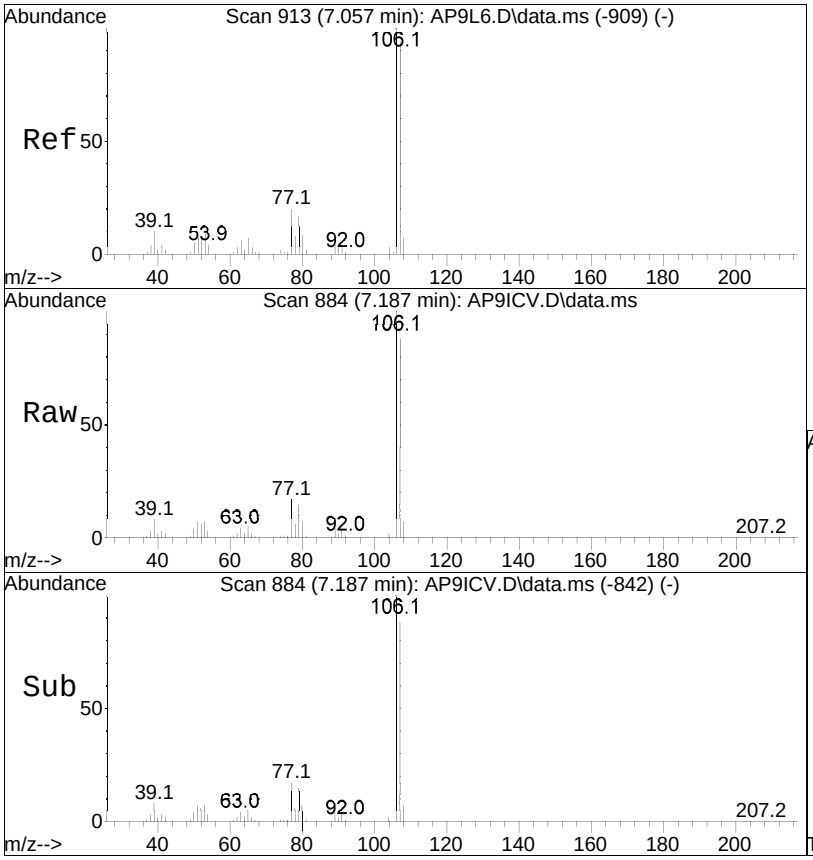


#29
Acetophenone
Concen: 5.32 ug/ml
RT: 7.087 min Scan# 867
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:105 Resp: 169891

Ion	Ratio	Lower	Upper
105	100		
120	18.9	20.5	30.7#
51	27.6	34.9	52.3#

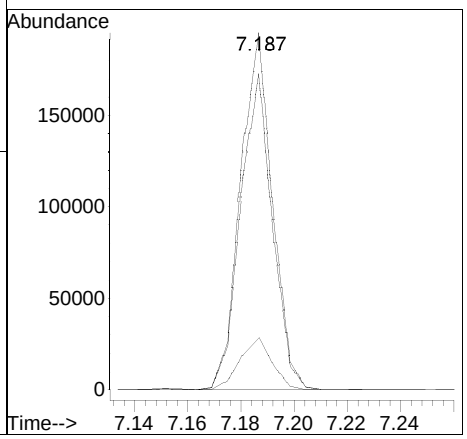


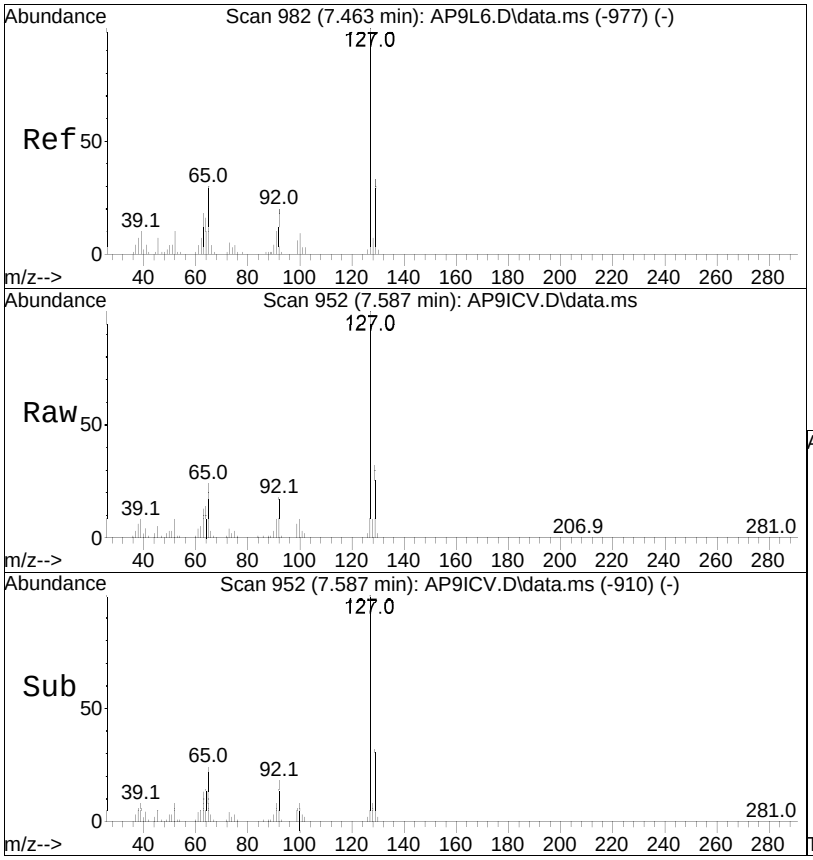


#30
m-Toluidine
Concen: 5.78 ug/ml
RT: 7.187 min Scan# 884
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:106 Resp: 162885

Ion	Ratio	Lower	Upper
106	100		
107	88.6	75.7	113.5
79	14.8	11.8	17.8

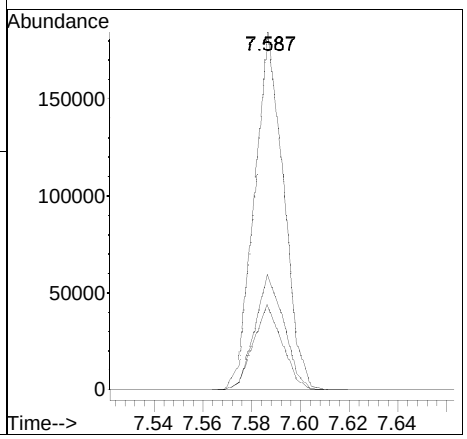


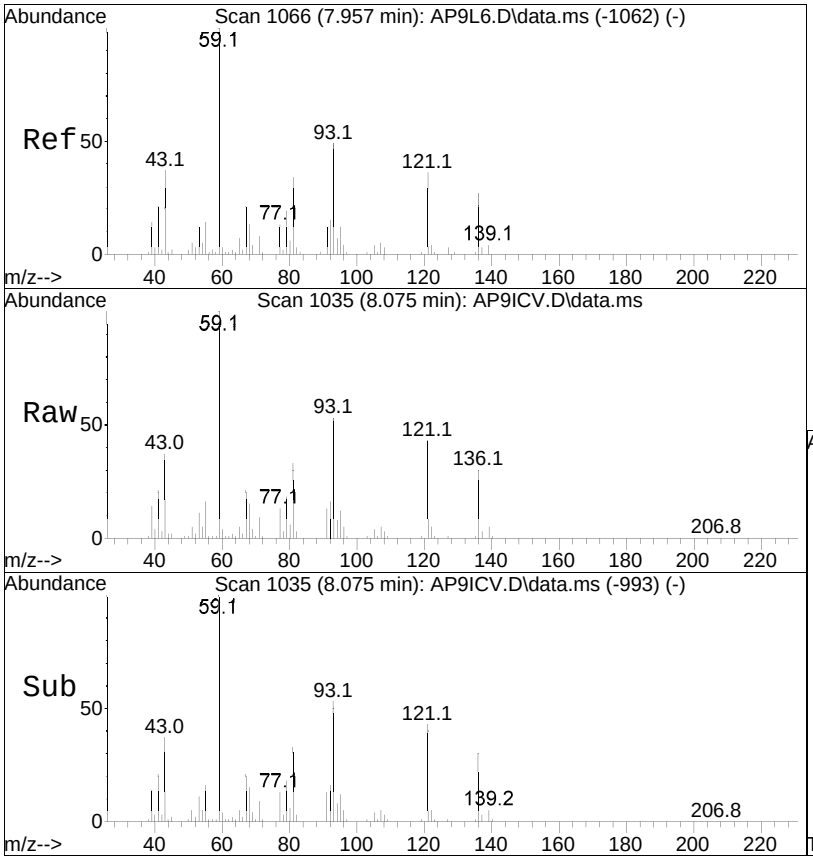


#31
2-Chloroaniline
Concen: 5.41 ug/ml
RT: 7.587 min Scan# 952
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:127 Resp: 151975

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.9	38.9
65	23.8	26.3	39.5#

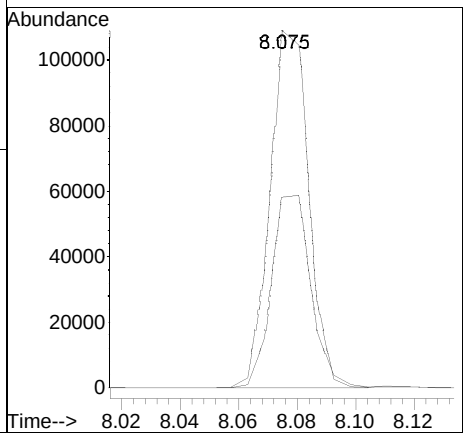


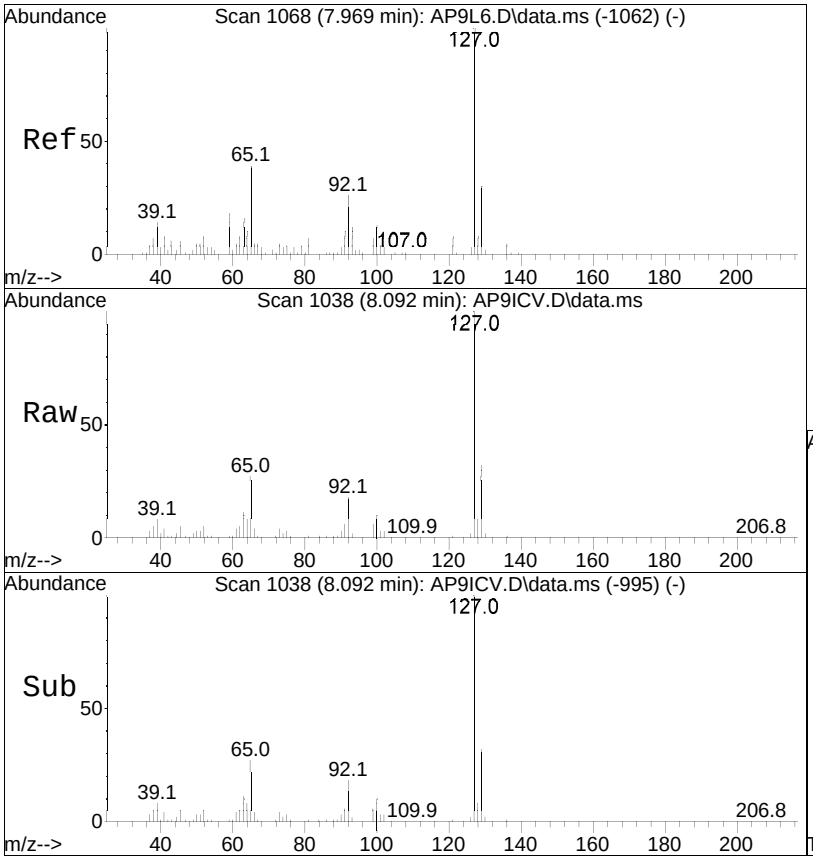


#56
a-Terpineol
Concen: 5.28 ug/ml
RT: 8.075 min Scan# 1035
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion: 59 Resp: 99379

Ion	Ratio	Lower	Upper
59	100		
93	55.7	35.6	53.4#

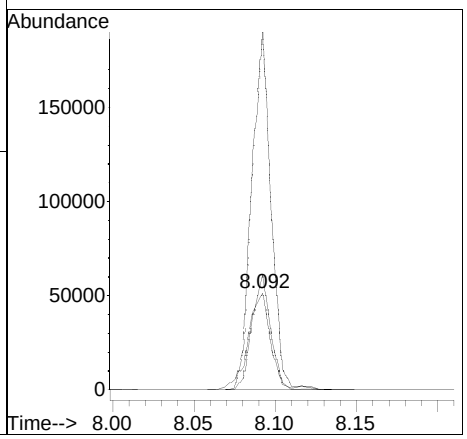


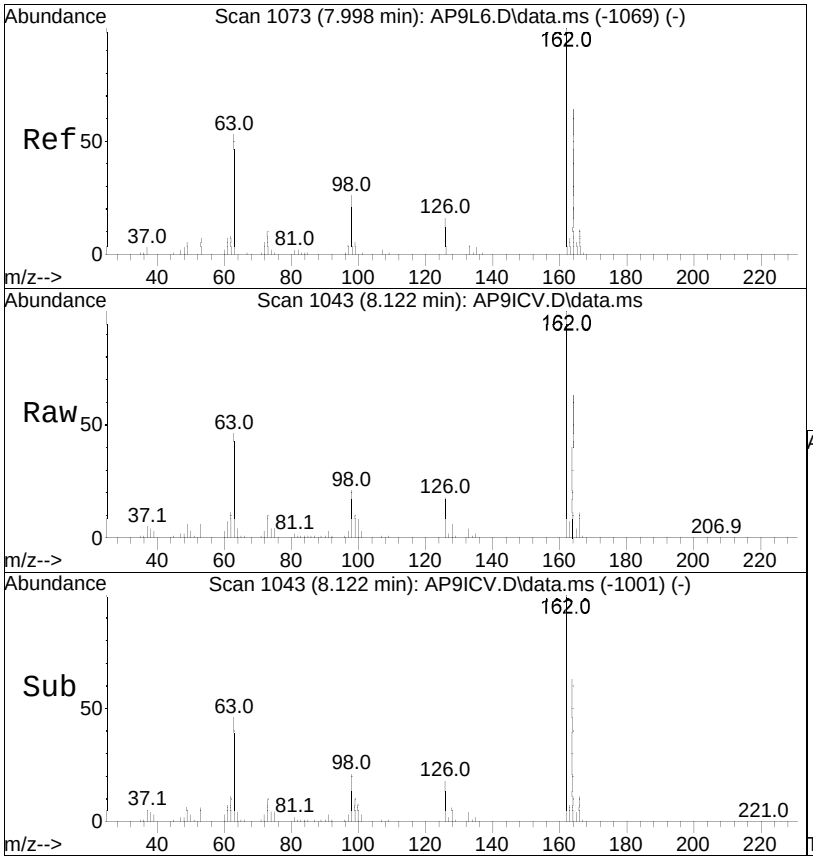


#57
3-Chloroaniline
Concen: 5.65 ug/ml
RT: 8.092 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion: 65 Resp: 49908

Ion	Ratio	Lower	Upper
65	100		
127	310.5	243.2	364.8
129	98.1	78.8	118.2

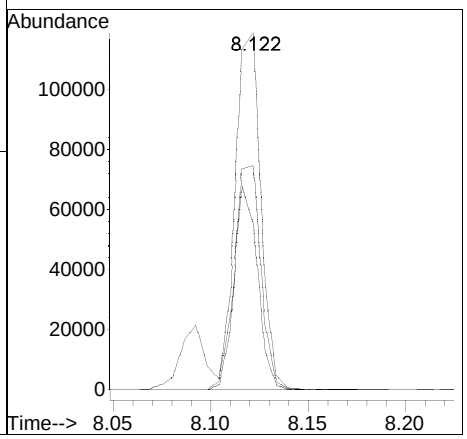


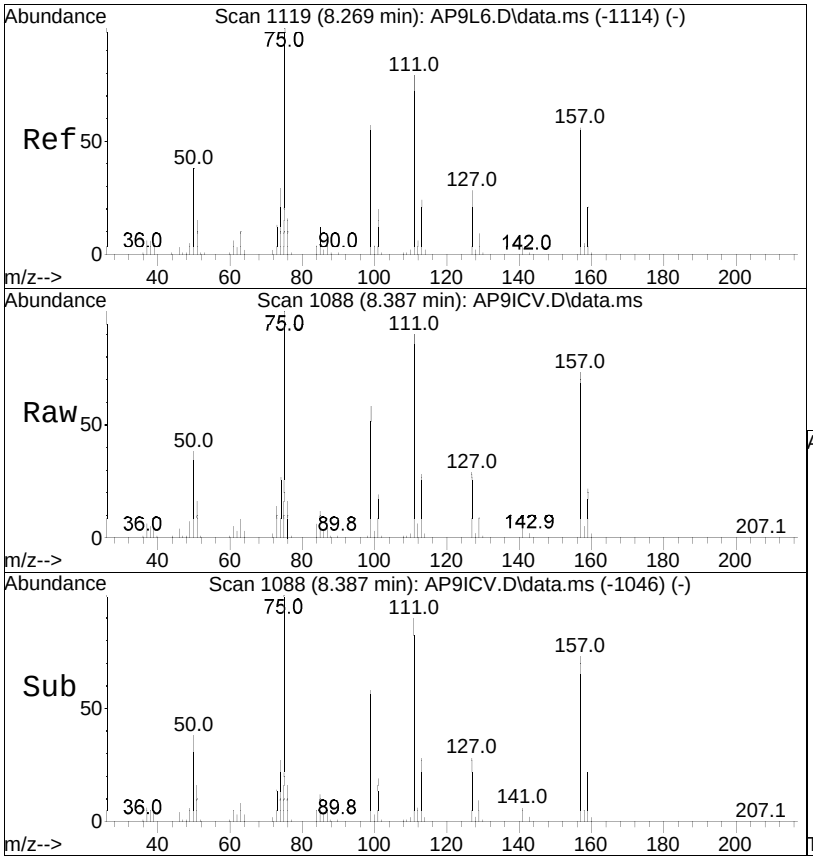


#58
2,6-Dichlorophenol
Concen: 5.46 ug/ml
RT: 8.122 min Scan# 1043
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:162 Resp: 109210

Ion	Ratio	Lower	Upper
162	100		
164	63.2	51.1	76.7
63	52.7	60.8	91.2#

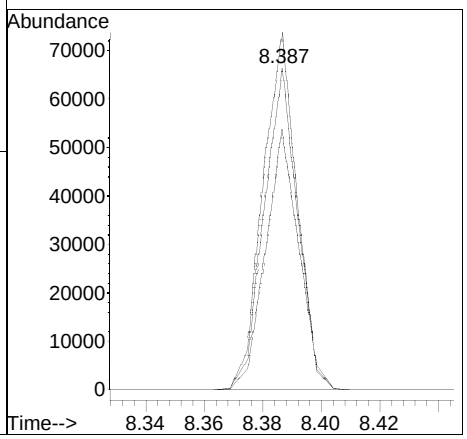


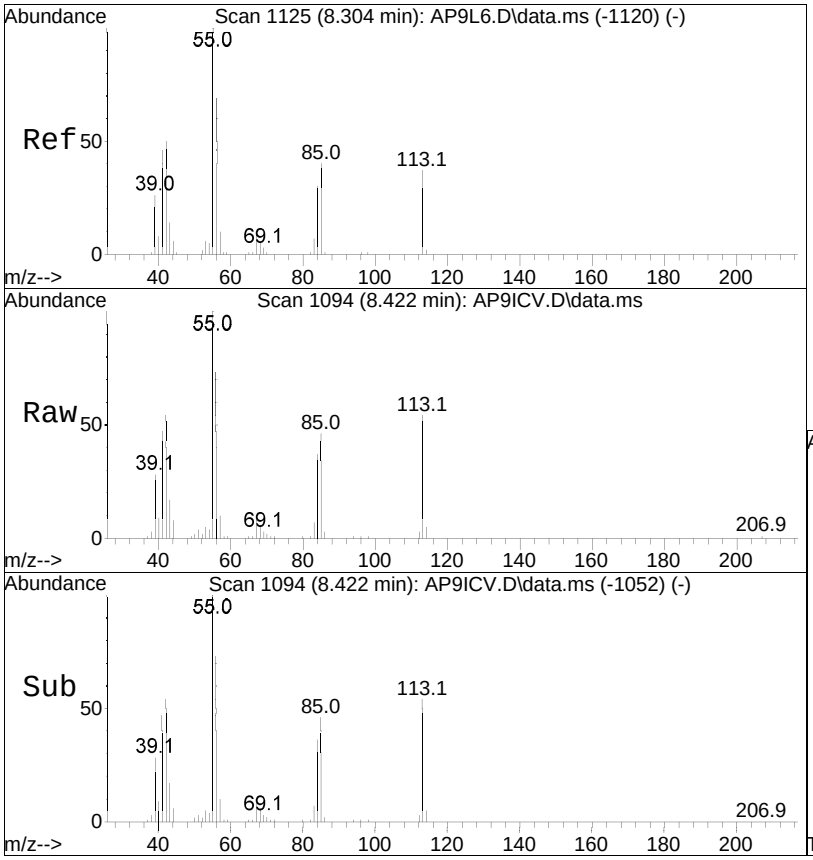


#59
1-chloro-2-nitrobenzene
Concen: 5.42 ug/ml
RT: 8.387 min Scan# 1088
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:111 Resp: 52627

Ion	Ratio	Lower	Upper
111	100		
157	80.3	0.0	0.0#
75	112.7	28.2	42.2#

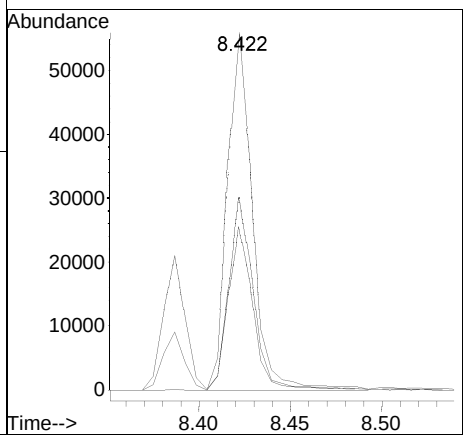


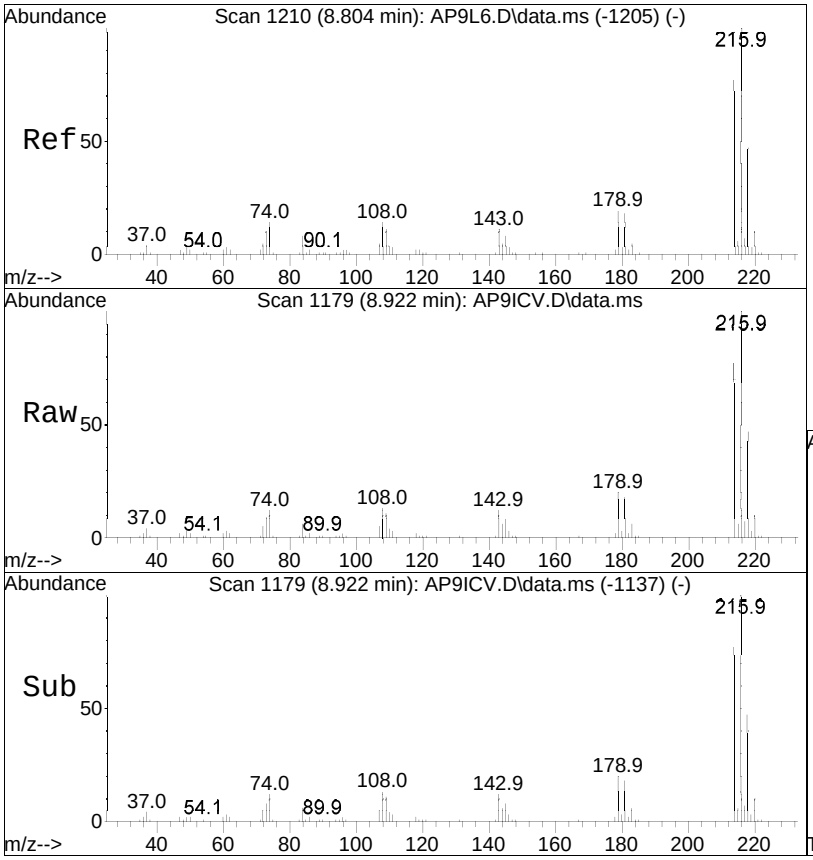


#60
Caprolactam
Concen: 5.42 ug/ml
RT: 8.422 min Scan# 1094
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion: 55 Resp: 53050

Ion	Ratio	Lower	Upper
55	100		
85	45.3	19.8	29.6#
113	53.3	29.6	44.4#

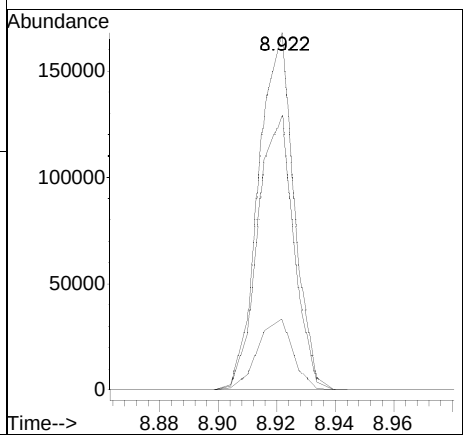


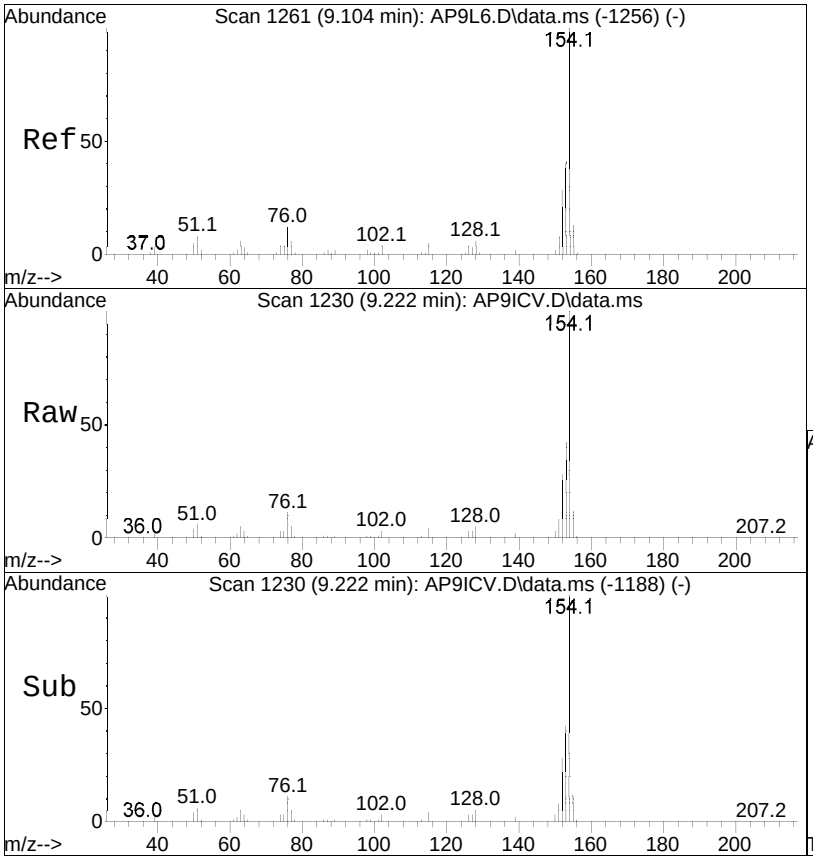


#61
1,2,4,5-Tetrachlorobenzene
Concen: 5.25 ug/ml
RT: 8.922 min Scan# 1179
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:216 Resp: 140652

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.7	95.5
179	20.0	19.0	28.6

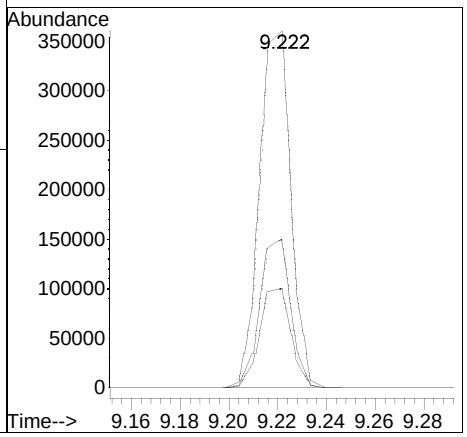


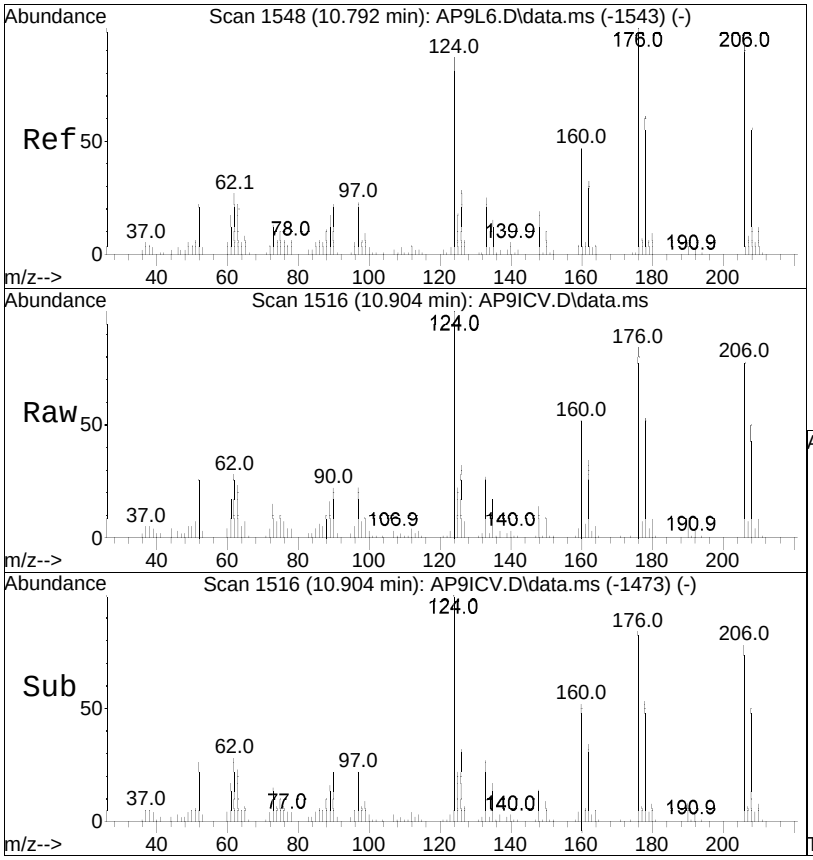


#62
Biphenyl
Concen: 5.29 ug/ml
RT: 9.222 min Scan# 1230
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:154 Resp: 320073

Ion	Ratio	Lower	Upper
154	100		
153	41.1	32.3	48.5
152	28.1	22.5	33.7

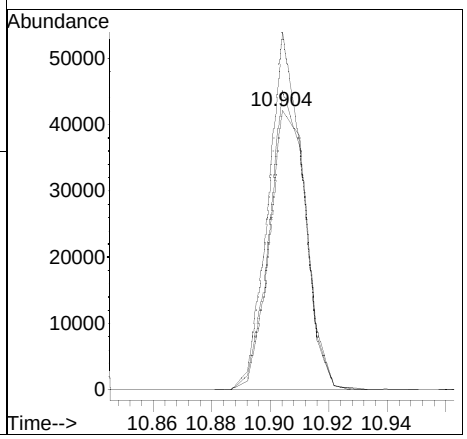


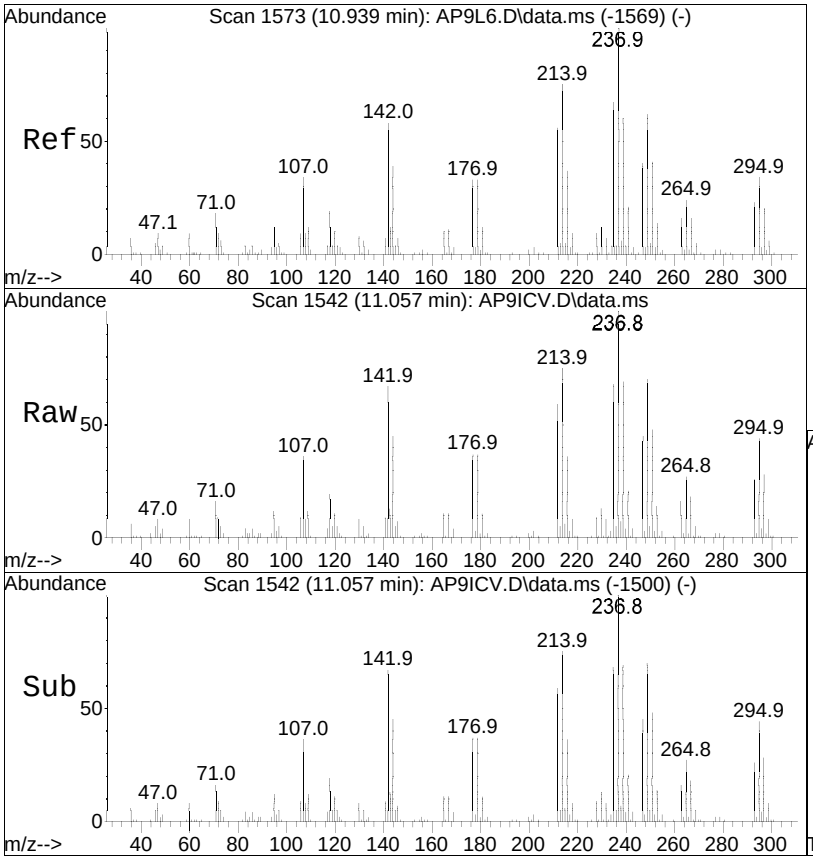


#84
Dichloran
Concen: 5.19 ug/ml
RT: 10.904 min Scan# 1516
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:206 Resp: 37449

Ion	Ratio	Lower	Upper
206	100		
176	103.2	104.6	157.0#
124	116.2	130.5	195.7#

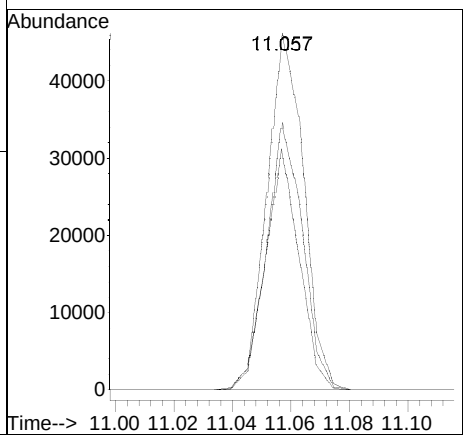


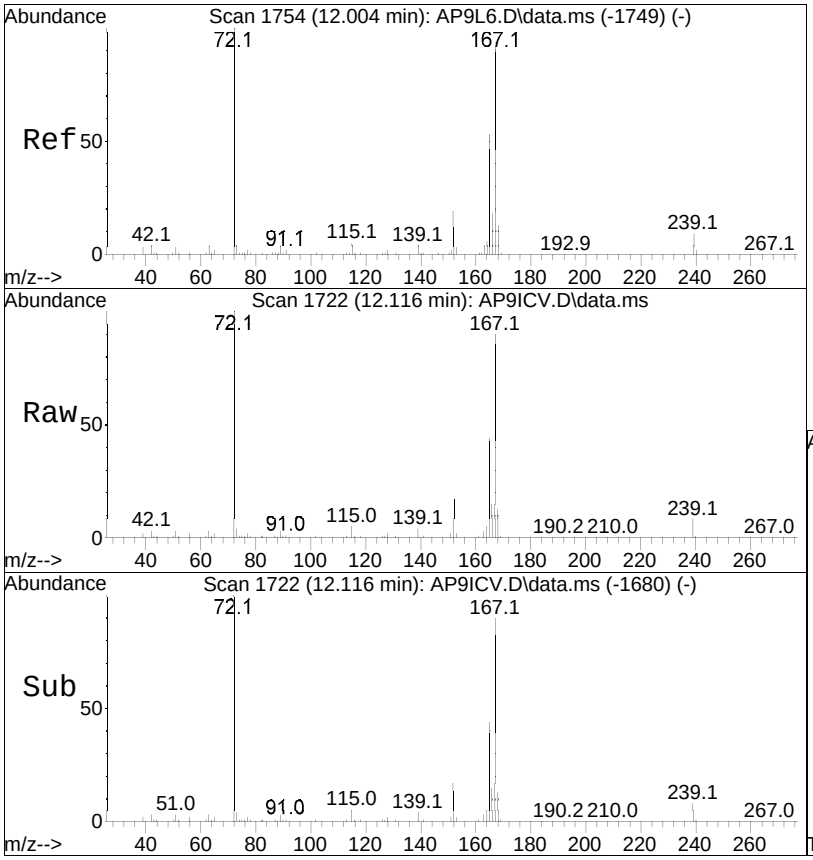


#85
Pentachloronitrobenzene
Concen: 5.23 ug/ml
RT: 11.057 min Scan# 1542
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:237 Resp: 40333

Ion	Ratio	Lower	Upper
237	100		
142	62.1	77.0	115.4#
214	72.7	58.2	87.4

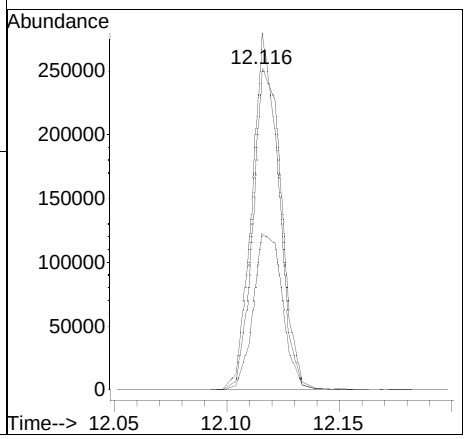




#99
Diphenamid
Concen: 5.41 ug/ml
RT: 12.116 min Scan# 1722
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 10 Oct 2024 3:37 am

Tgt Ion:167 Resp: 221467

Ion	Ratio	Lower	Upper
167	100		
72	103.0	109.7	164.5#
165	50.2	41.8	62.6



Manual Integration Report

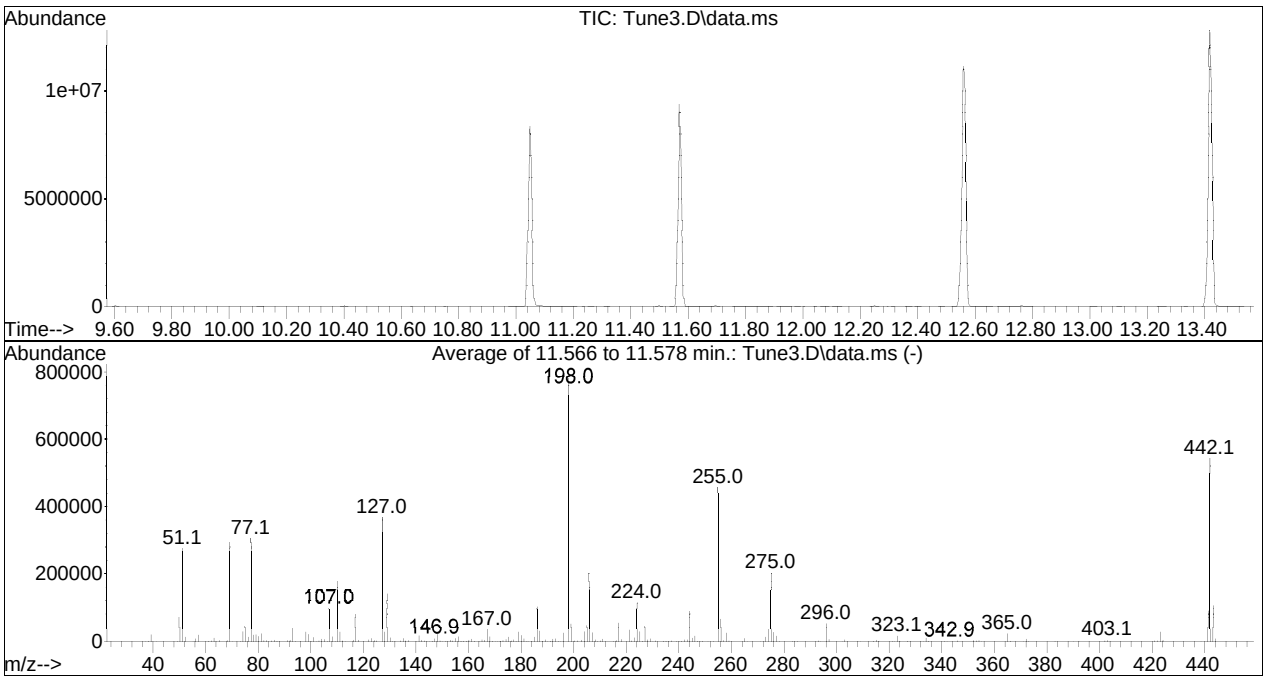
Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: AP9ICV.D	Operator	: SV106:HNY
Date Inj'd	: 10/10/2024 3:37 am	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 110	Quant Date	: 10/11/2024 12:13 pm

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

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\241009RVTical\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Oct 11 18:38:05 2024



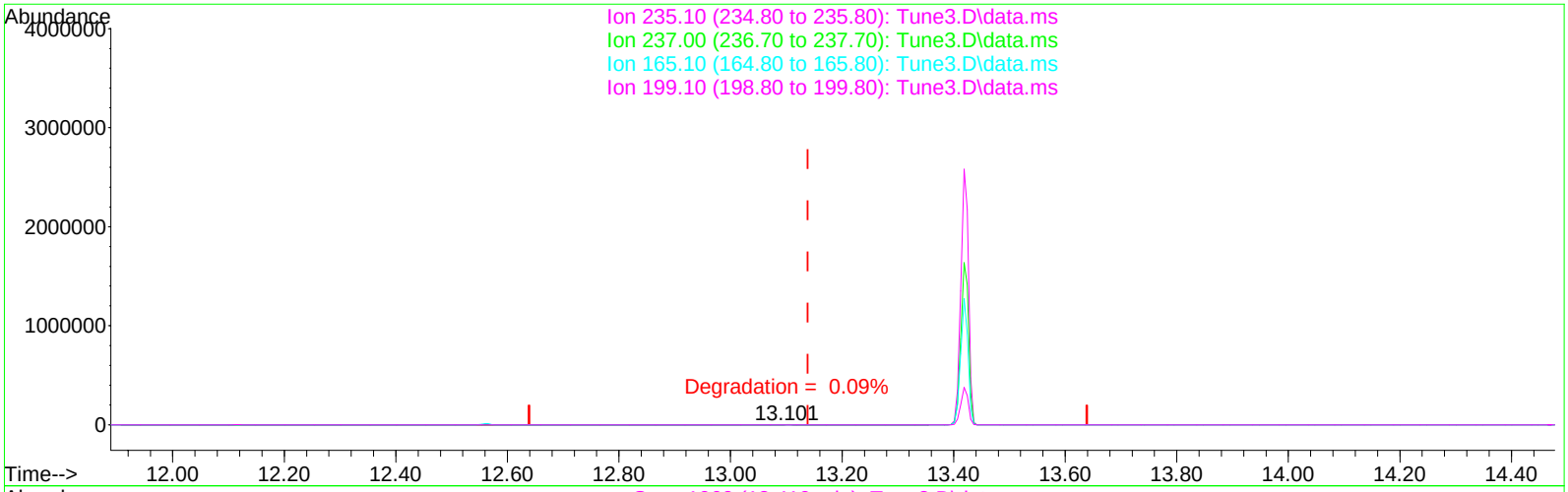
Spectrum Information: Average of 11.566 to 11.578 min.

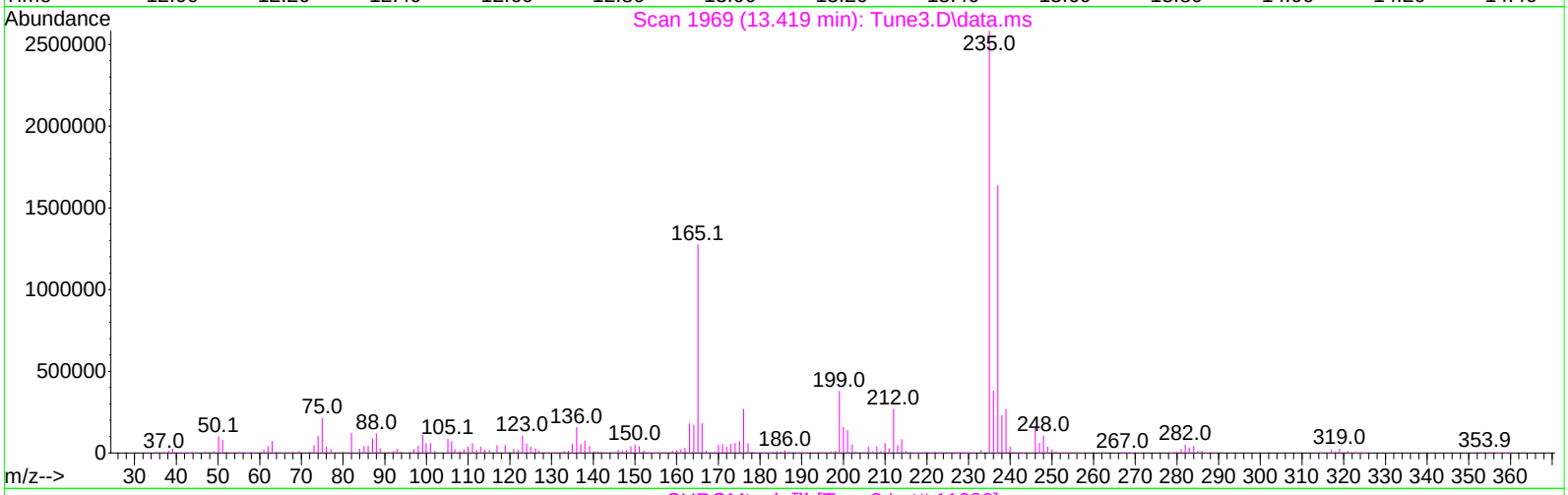
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.1	274715	PASS
68	69	0.00	2	1.6	4747	PASS
69	69	100	100	100.0	292965	PASS
70	69	0.00	2	0.5	1381	PASS
127	198	10	80	46.8	365867	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	782443	PASS
199	198	5	9	6.7	52056	PASS
275	198	10	60	25.8	202091	PASS
365	198	1	100	2.9	22768	PASS
441	442	0.01	24	16.5	89168	PASS
442	198	50	100	69.1	541013	PASS
443	442	15	24	19.3	104563	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 11 17:51:31 2024
Quant Method : I:\8270\SV106\241011RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 17:52:57 2024
Response via : Initial Calibration





CHROMtools™ [Tune3 Lot# 11080]

(6) DDT (T)

13.419min (+ 0.280) 405.47

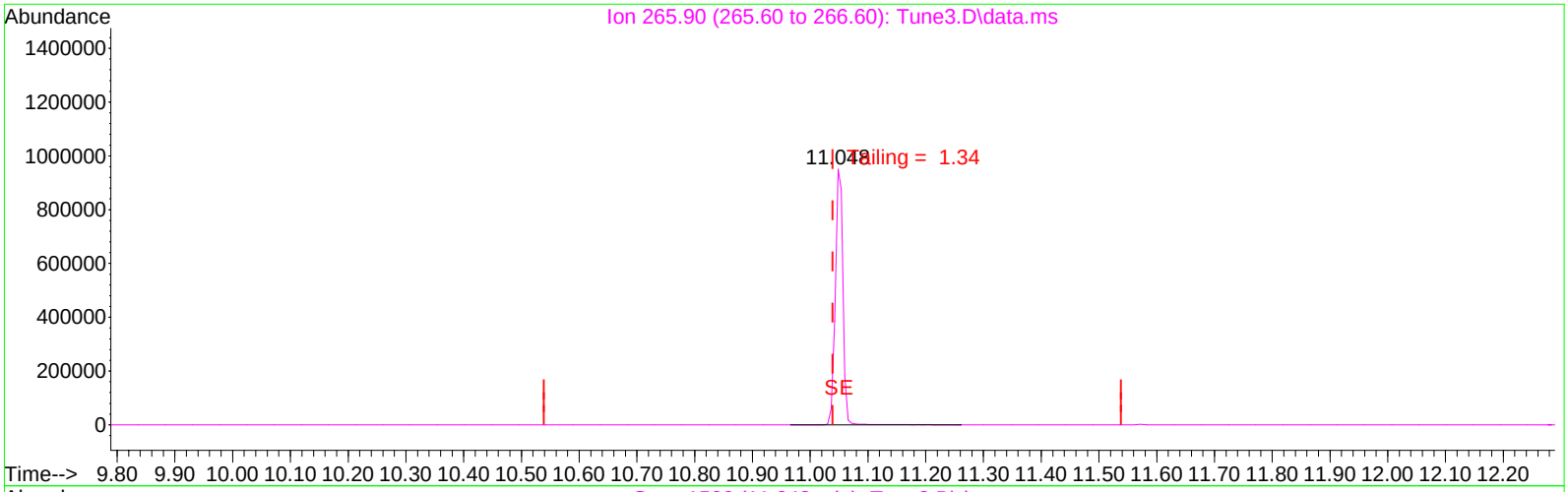
response 2471615

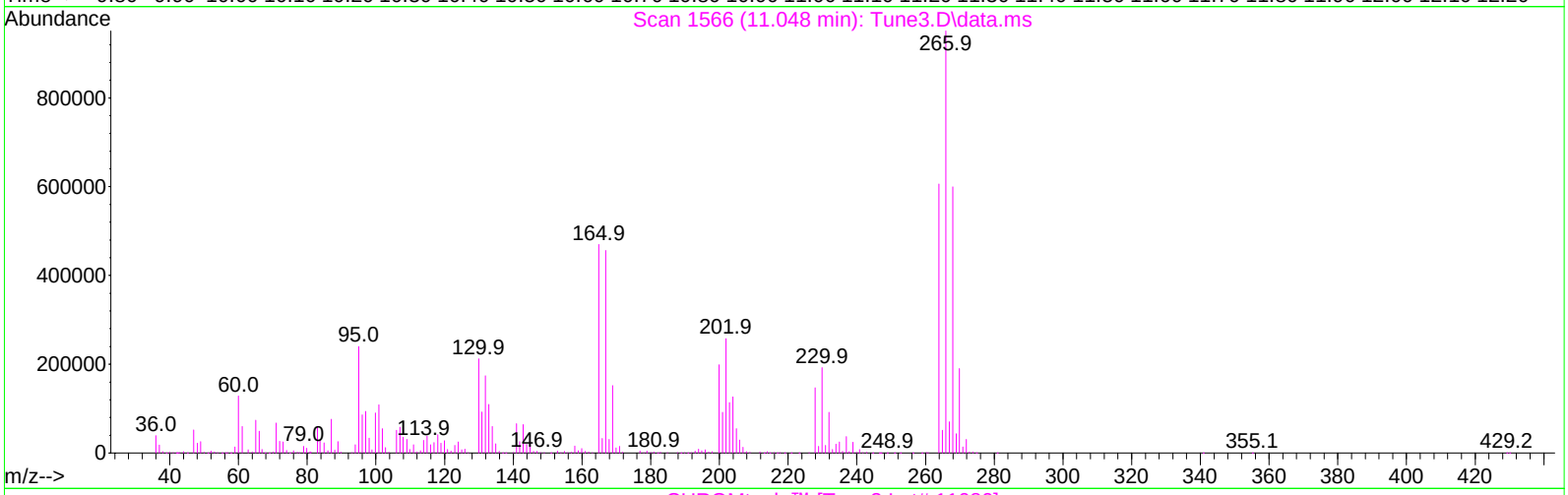
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.99
165.10	44.50	47.29
199.10	14.80	14.26

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 11 17:51:31 2024
Quant Method : I:\8270\SV106\241011RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 17:52:57 2024
Response via : Initial Calibration





CHROMtools™ [Tune3 Lot# 11080]

(1) Pentachlorophenol (T)

11.048min (+ 0.009) 420.41

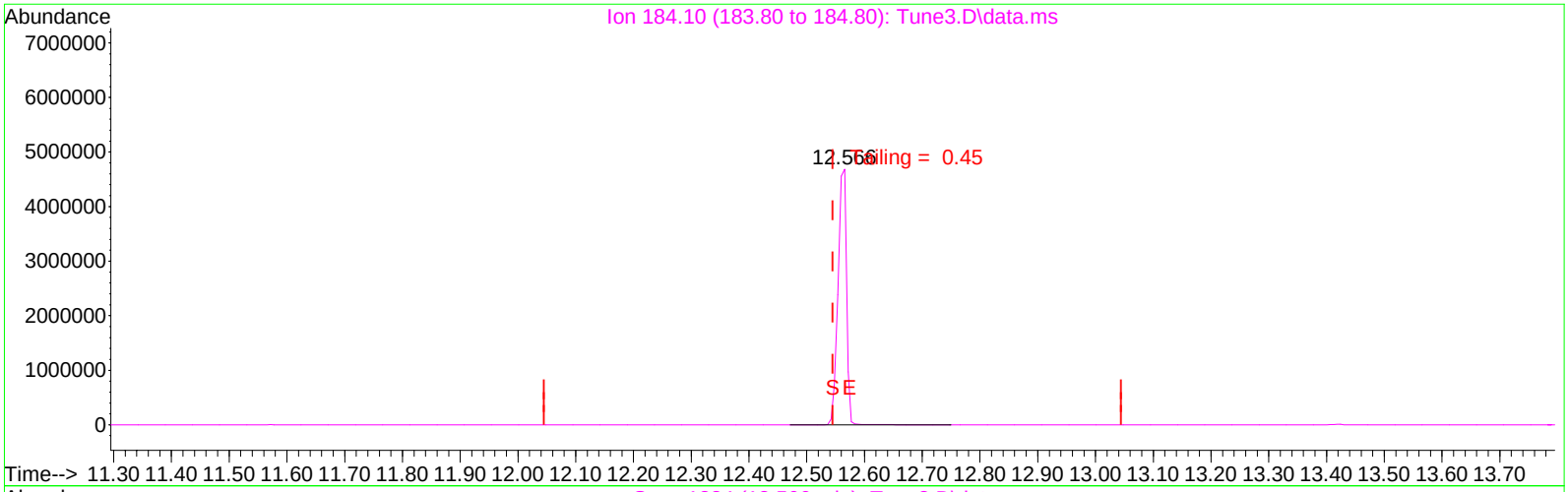
response 883002

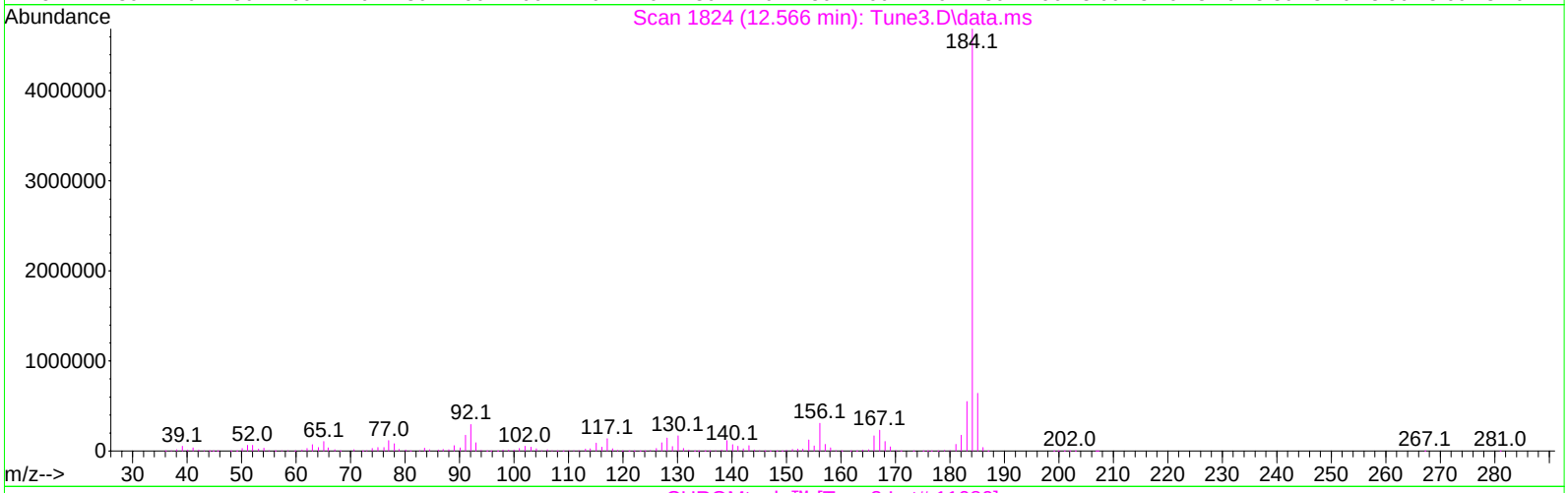
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\241009RVTical\
Data File : Tune3.D
Acq On : 11 Oct 2024 12:20 pm
Operator : SV106:HNY
Sample : Tune3 Lot# 11080
Misc : WG1984388
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 11 17:51:31 2024
Quant Method : I:\8270\SV106\241011RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 17:52:57 2024
Response via : Initial Calibration





CHROMtools™ [Tune3 Lot# 11080]

(3) Benzidine (T)

12.566min (+ 0.021) 470.83

response 4793063

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL9.D
Acq On : 11 Oct 2024 12:44 pm
Operator : SV106:HNY
Sample : IL2,32,,ADPL50 Lot# 11022
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 18:38:42 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	77314	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 92.07%			
86) IS3_Acenaphthene-d10	9.772	164	172330	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 97.09%			
100) IS3_Phenanthrene-d10	11.213	188	347488	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 98.21%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.008	88	449898	47.947	ug/ml#	74
34) n-Decane	6.490	57	1465533	51.028	ug/ml#	42
87) Atrazine	10.989	200	995667	55.687	ug/ml	95
101) n-Octadecane	11.183	57	2256366	53.507	ug/ml#	1
102) Parathion	12.007	109	681058	49.562	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.307	212	4168031	58.458	ug/ml	99

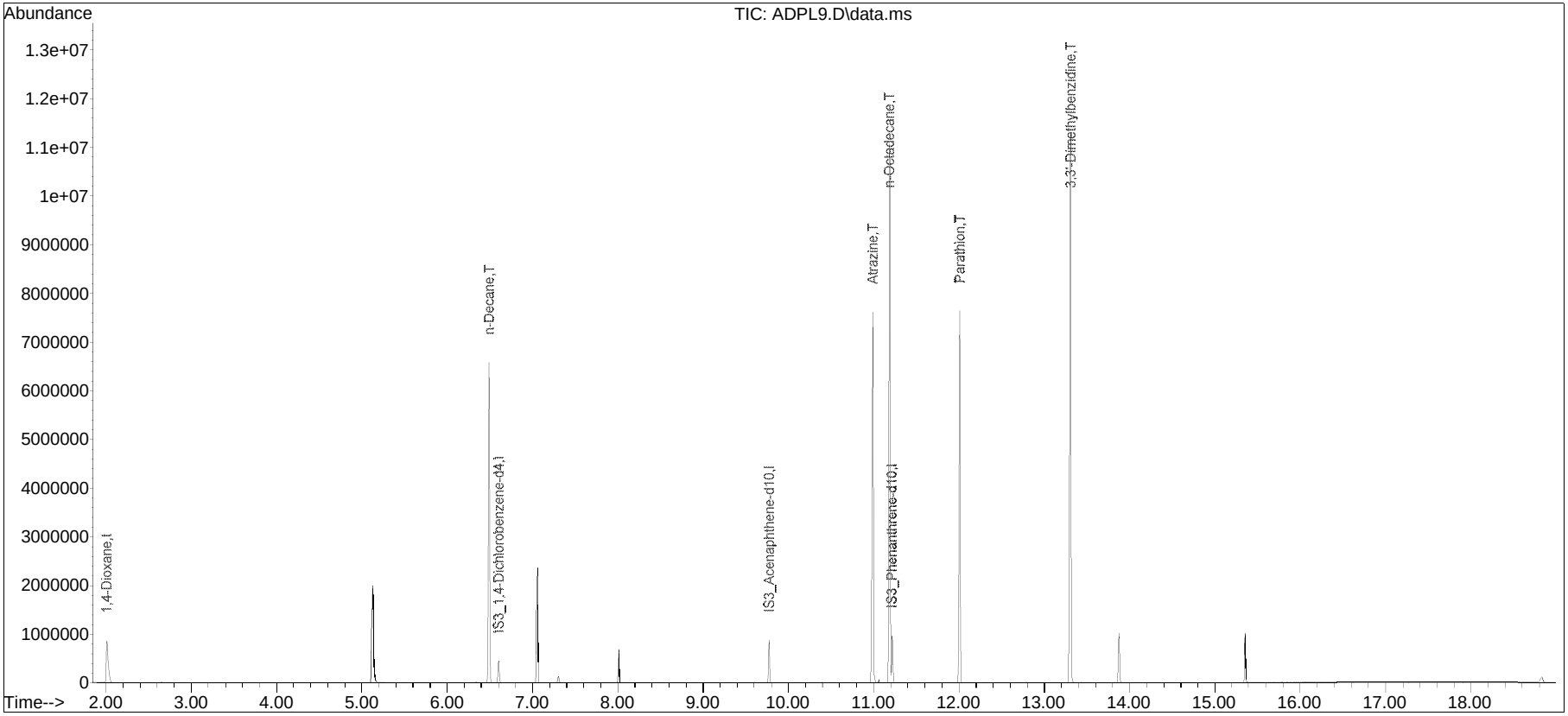
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL9.D
Acq On : 11 Oct 2024 12:44 pm
Operator : SV106:HNY
Sample : IL2,32,,ADPL50 Lot# 11022
Misc : WG1984388
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 11 18:38:42 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL9.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 12:44 pm	Instrument	: SV 106
Sample	: IL2,32,,ADPL50 Lot# 11022	Quant Date	: 10/11/2024 6:40 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL8.D
Acq On : 11 Oct 2024 1:07 pm
Operator : SV106:HNY
Sample : IL3,32,,ADPL25 Lot# 11023
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 18:38:31 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	79483	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 94.65%			
86) IS3_Acenaphthene-d10	9.772	164	171838	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 96.81%			
100) IS3_Phenanthrene-d10	11.213	188	349936	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 98.90%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.013	88	226490	23.479	ug/ml#	75
34) n-Decane	6.489	57	729617	24.711	ug/ml#	42
87) Atrazine	10.983	200	485050	27.206	ug/ml	96
101) n-Octadecane	11.183	57	1120938	26.396	ug/ml#	1
102) Parathion	12.001	109	317731	26.192	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.301	212	2096004	29.191	ug/ml	99

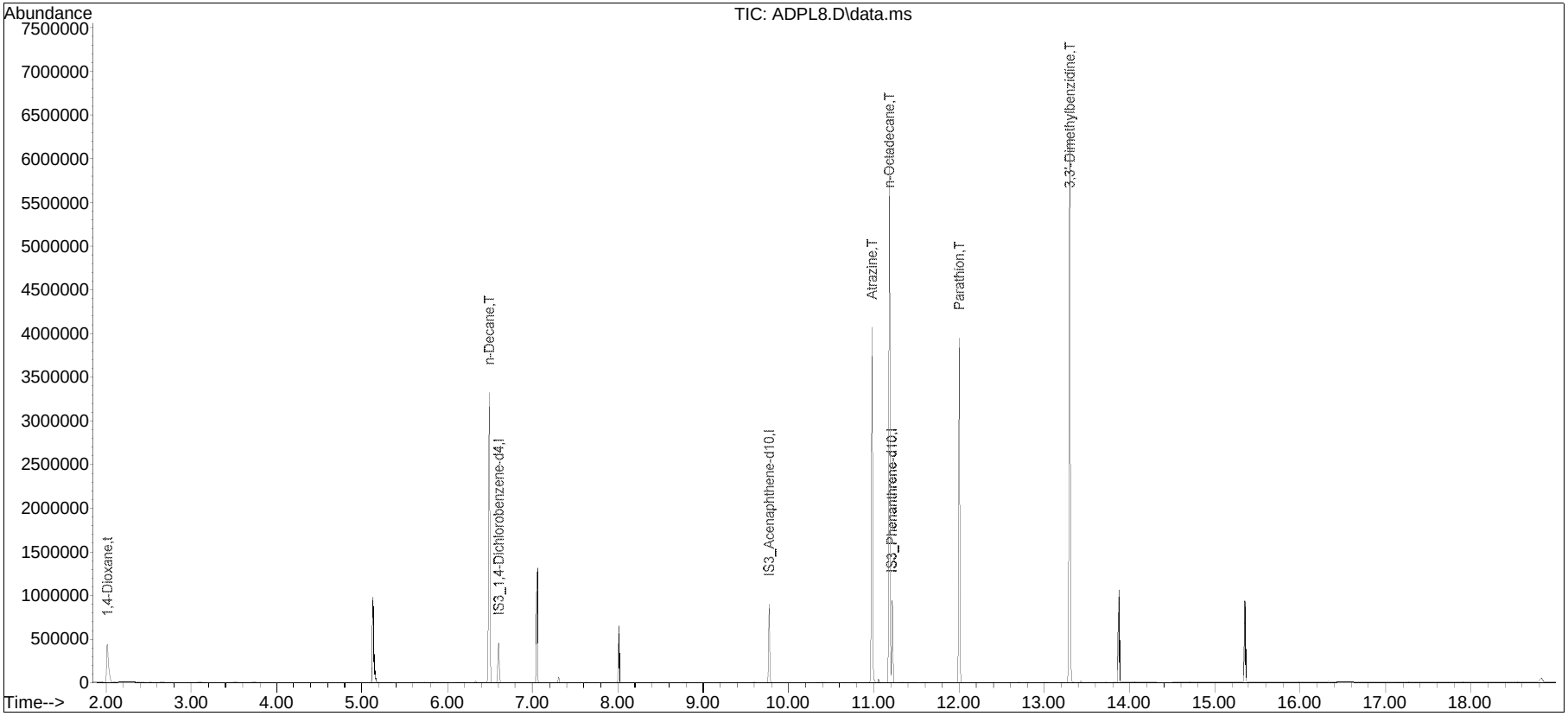
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL8.D
Acq On : 11 Oct 2024 1:07 pm
Operator : SV106:HNY
Sample : IL3,32,,ADPL25 Lot# 11023
Misc : WG1984388
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 11 18:38:31 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL8.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 1:07 pm	Instrument	: SV 106
Sample	: IL3,32,,ADPL25 Lot# 11023	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL7.D
Acq On : 11 Oct 2024 1:31 pm
Operator : SV106:HNY
Sample : IL4,32,,ADPL10 Lot# 11024
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 18:38:20 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	79632	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 94.83%			
86) IS3_Acenaphthene-d10	9.772	164	168371	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 94.86%			
100) IS3_Phenanthrene-d10	11.213	188	340889	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 96.34%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.013	88	91898	9.509	ug/ml#	76
34) n-Decane	6.489	57	296110	10.010	ug/ml#	42
87) Atrazine	10.977	200	177424	10.156	ug/ml	95
101) n-Octadecane	11.183	57	427042	10.323	ug/ml#	1
102) Parathion	12.001	109	106886	10.070	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.295	212	763576	10.917	ug/ml	99

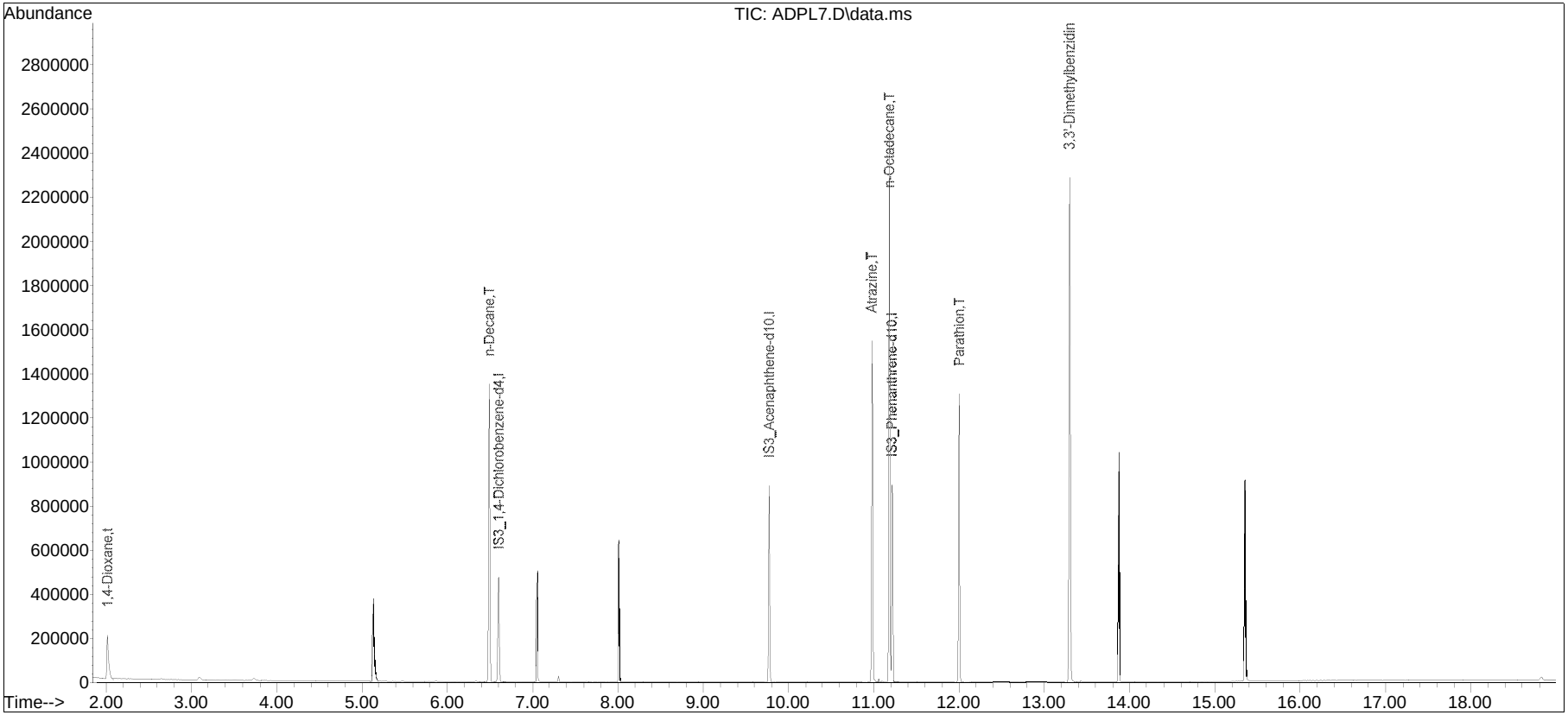
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL7.D
Acq On : 11 Oct 2024 1:31 pm
Operator : SV106:HNY
Sample : IL4,32,,ADPL10 Lot# 11024
Misc : WG1984388
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 11 18:38:20 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL7.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 1:31 pm	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 11024	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL6.D
Acq On : 11 Oct 2024 1:55 pm
Operator : SV106:HNY
Sample : IL5,32,,ADPL5 Lot# 11025
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 18:38:09 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	83977	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery =	100.00%		
86) IS3_Acenaphthene-d10	9.772	164	177498	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery =	100.00%		
100) IS3_Phenanthrene-d10	11.213	188	353826	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.013	88	41456	4.068	ug/ml#	73
34) n-Decane	6.490	57	133134	4.268	ug/ml#	42
87) Atrazine	10.978	200	87448	4.748	ug/ml	95
101) n-Octadecane	11.183	57	213685	4.976	ug/ml#	1
102) Parathion	11.995	109	45931	4.395	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.295	212	330565	4.553	ug/ml	99

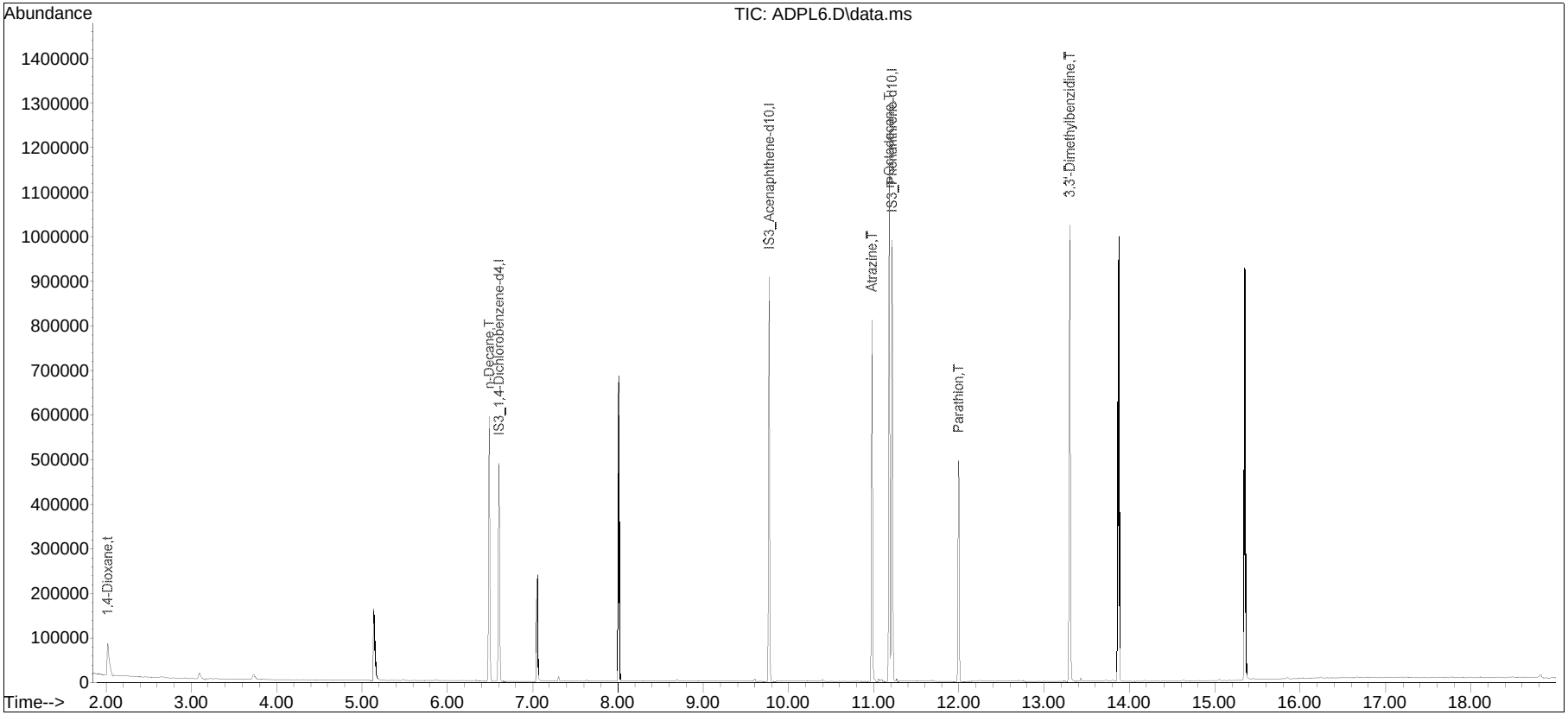
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL6.D
Acq On : 11 Oct 2024 1:55 pm
Operator : SV106:HNY
Sample : IL5,32,,ADPL5 Lot# 11025
Misc : WG1984388
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 11 18:38:09 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL6.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 1:55 pm	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 11025	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL5.D
Acq On : 11 Oct 2024 2:18 pm
Operator : SV106:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11026
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 18:37:58 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	81139	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 96.62%			
86) IS3_Acenaphthene-d10	9.772	164	168837	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 95.12%			
100) IS3_Phenanthrene-d10	11.213	188	341165	4.000	ug/ml	# 0.00
Standard Area 1 = 353826			Recovery = 96.42%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.025	88	22249	2.259	ug/ml#	76
34) n-Decane	6.490	57	71357	2.367	ug/ml#	43
87) Atrazine	10.977	200	42829	2.445	ug/ml	95
101) n-Octadecane	11.183	57	102021	2.464	ug/ml#	1
102) Parathion	11.995	109	20596	2.136	ug/ml	95
103) 3,3'-Dimethylbenzidine	13.295	212	149664	2.138	ug/ml	99

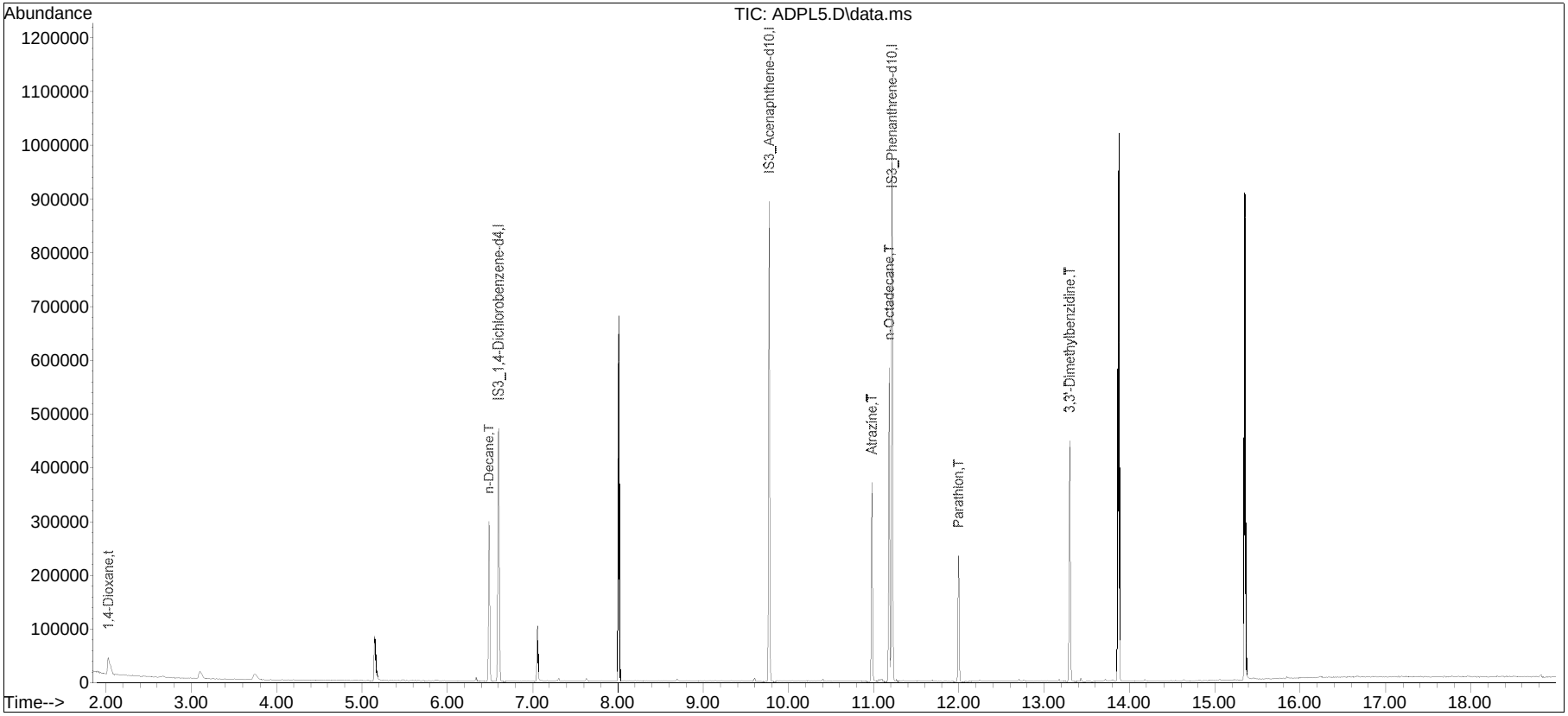
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL5.D
Acq On : 11 Oct 2024 2:18 pm
Operator : SV106:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11026
Misc : WG1984388
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 11 18:37:58 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL5.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 2:18 pm	Instrument	: SV 106
Sample	: IL6,32,,ADPL2.5 Lot# 11026	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL4.D
Acq On : 11 Oct 2024 2:42 pm
Operator : SV106:HNY
Sample : IL7,32,,ADPL1 Lot# 11027
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 18:37:47 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	84735	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery =	100.90%		
86) IS3_Acenaphthene-d10	9.772	164	180291	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery =	101.57%		
100) IS3_Phenanthrene-d10	11.213	188	366685	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery =	103.63%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.019	88	12868	1.251	ug/ml#	78
34) n-Decane	6.489	57	40689	1.293	ug/ml#	42
87) Atrazine	10.977	200	21547	1.152	ug/ml	92
101) n-Octadecane	11.183	57	52423	1.178	ug/ml#	1
102) Parathion	11.995	109	10400	1.071	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.295	212	73345	0.975	ug/ml	99

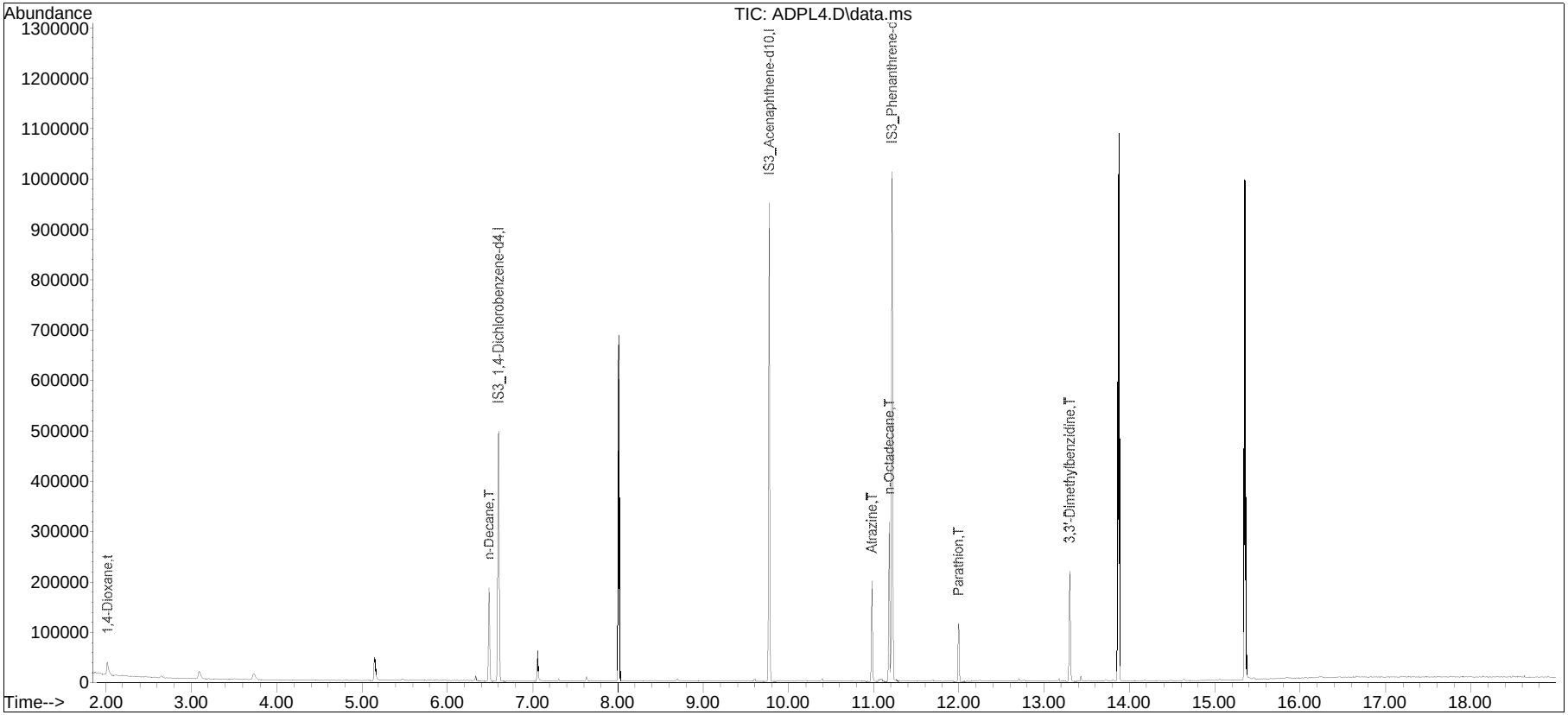
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL4.D
Acq On : 11 Oct 2024 2:42 pm
Operator : SV106:HNY
Sample : IL7,32,,ADPL1 Lot# 11027
Misc : WG1984388
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 11 18:37:47 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL4.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 2:42 pm	Instrument	: SV 106
Sample	: IL7,32,,ADPL1 Lot# 11027	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL3.D
Acq On : 11 Oct 2024 3:06 pm
Operator : SV106:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11028
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 18:37:37 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	91857	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery =	109.38%		
86) IS3_Acenaphthene-d10	9.772	164	194378	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery =	109.51%		
100) IS3_Phenanthrene-d10	11.213	188	393088	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery =	111.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.025	88	5172	0.464	ug/ml#	75
34) n-Decane	6.490	57	15097	0.442	ug/ml#	41
87) Atrazine	10.977	200	8023	0.398	ug/ml#	90
101) n-Octadecane	11.183	57	18924	0.397	ug/ml#	1
102) Parathion	11.995	109	3743	0.437	ug/ml	89
103) 3,3'-Dimethylbenzidine	13.295	212	21912	0.272	ug/ml	98

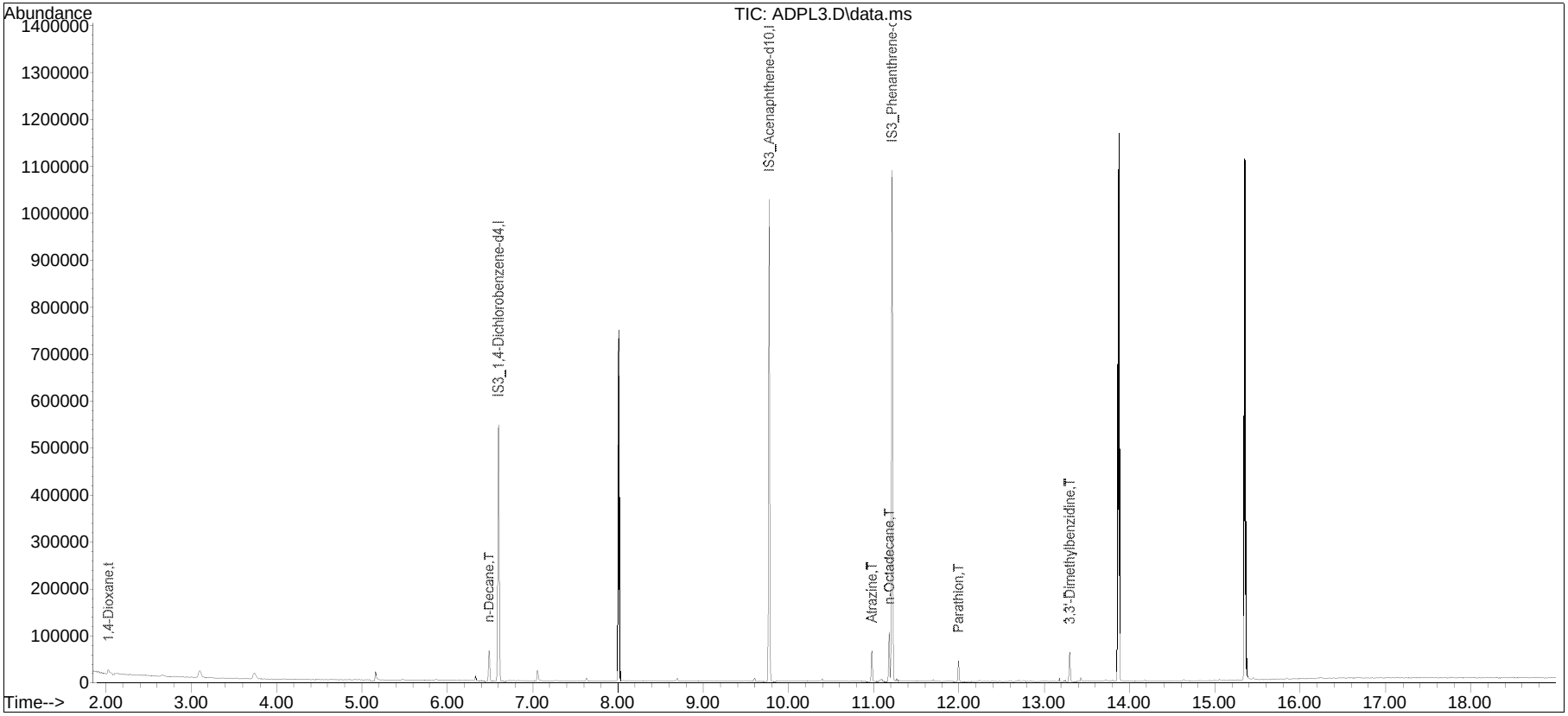
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL3.D
Acq On : 11 Oct 2024 3:06 pm
Operator : SV106:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11028
Misc : WG1984388
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 11 18:37:37 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL3.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 3:06 pm	Instrument	: SV 106
Sample	: IL8,32,,ADPL0.5 Lot# 11028	Quant Date	: 10/11/2024 6:39 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL2.D
Acq On : 11 Oct 2024 3:29 pm
Operator : SV106:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11029
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 18:37:27 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	78513	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 93.49%			
86) IS3_Acenaphthene-d10	9.772	164	165260	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 93.11%			
100) IS3_Phenanthrene-d10	11.213	188	331195	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 93.60%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.025	88	2391	0.251	ug/ml#	86
34) n-Decane	6.489	57	5903	0.202	ug/ml#	40
87) Atrazine	10.977	200	3111	0.181	ug/ml	92
101) n-Octadecane	11.183	57	7149	0.178	ug/ml#	1
102) Parathion	11.995	109	1374	0.255	ug/ml	86
103) 3,3'-Dimethylbenzidine	13.295	212	7380	0.109	ug/ml	98

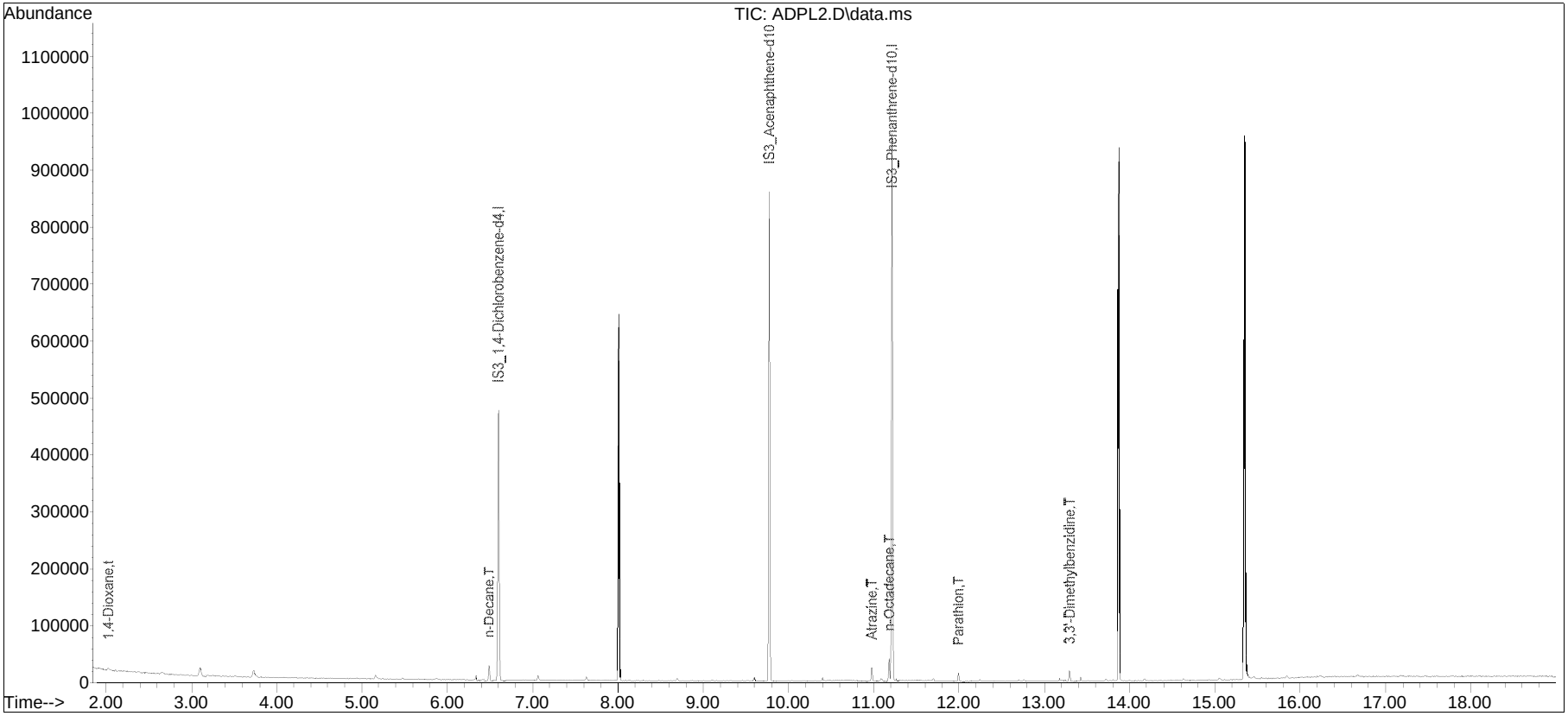
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL2.D
Acq On : 11 Oct 2024 3:29 pm
Operator : SV106:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11029
Misc : WG1984388
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 11 18:37:27 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL2.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 3:29 pm	Instrument	: SV 106
Sample	: IL9,32,,ADPL0.2 Lot# 11029	Quant Date	: 10/11/2024 6:38 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL1.D
Acq On : 11 Oct 2024 3:53 pm
Operator : SV106:HNY
Sample : IL10,32,,ADPL0.1 Lot# 11030
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 18:37:16 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	79565	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 94.75%			
86) IS3_Acenaphthene-d10	9.772	164	172907	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 97.41%			
100) IS3_Phenanthrene-d10	11.213	188	339068	4.000	ug/ml	0.00
Standard Area 1 = 353826			Recovery = 95.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.019	88	2741	0.284	ug/ml	96
34) n-Decane	6.490	57	6338	0.214	ug/ml#	41
87) Atrazine	10.977	200	2926	0.163	ug/ml	97
101) n-Octadecane	11.183	57	6808	0.165	ug/ml#	1
102) Parathion	11.995	109	1594	0.274	ug/ml#	84
103) 3,3'-Dimethylbenzidine	13.289	212	7116	0.102	ug/ml	99

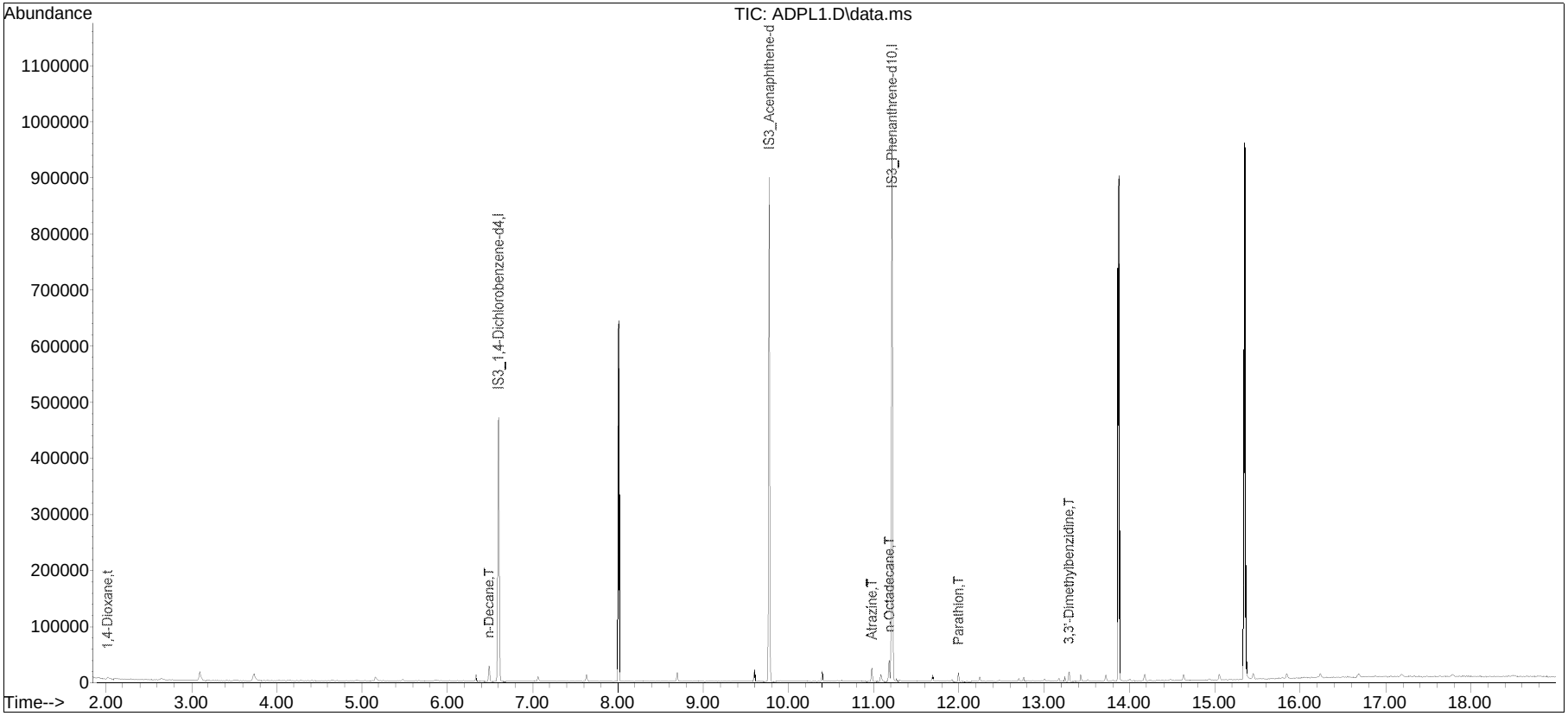
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPL1.D
Acq On : 11 Oct 2024 3:53 pm
Operator : SV106:HNY
Sample : IL10,32,,ADPL0.1 Lot# 11030
Misc : WG1984388
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 11 18:37:16 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPL1.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 3:53 pm	Instrument	: SV 106
Sample	: IL10,32,,ADPL0.1 Lot# 1103	Quant Date	: 10/11/2024 6:38 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPICV.D
Acq On : 11 Oct 2024 4:16 pm
Operator : SV106:HNY
Sample : CQICV3,32,,ADPICV Lot# 11033
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 18:37:07 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	83	0.00
33	t	1,4-Dioxane		0.485	0.475	2.1	100	0.00
34	T	n-Decane		1.486	1.563	-5.2	102	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	85	0.00
87	T	Atrazine		0.415	0.328	21.0#	71	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	81	0.00
101	T	n-Octadecane		0.485	0.485	0.0	82	0.00
102	T	Parathion	*	5.000	3.976	20.5	73	0.00
103	T	3,3'-Dimethylbenzidine		0.821	0.594	27.6#	65	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPICV.D
Acq On : 11 Oct 2024 4:16 pm
Operator : SV106:HNY
Sample : CQICV3,32,,ADPICV Lot# 11033
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 18:37:07 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\241011RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.601	152	69792	4.000	ug/ml	0.00
Standard Area 1 = 83977			Recovery = 83.11%			
86) IS3_Acenaphthene-d10	9.772	164	150496	4.000	ug/ml	0.00
Standard Area 1 = 177498			Recovery = 84.79%			
100) IS3_Phenanthrene-d10	11.213	188	287401	4.000	ug/ml	# 0.00
Standard Area 1 = 353826			Recovery = 81.23%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.008	88	41435	4.892	ug/ml#	75
34) n-Decane	6.490	57	136314	5.258	ug/ml#	43
87) Atrazine	10.978	200	61696	3.951	ug/ml	96
101) n-Octadecane	11.183	57	174193	4.994	ug/ml#	1
102) Parathion	11.995	109	33558	3.976	ug/ml	97
103) 3,3'-Dimethylbenzidine	13.295	212	213312	3.617	ug/ml	99

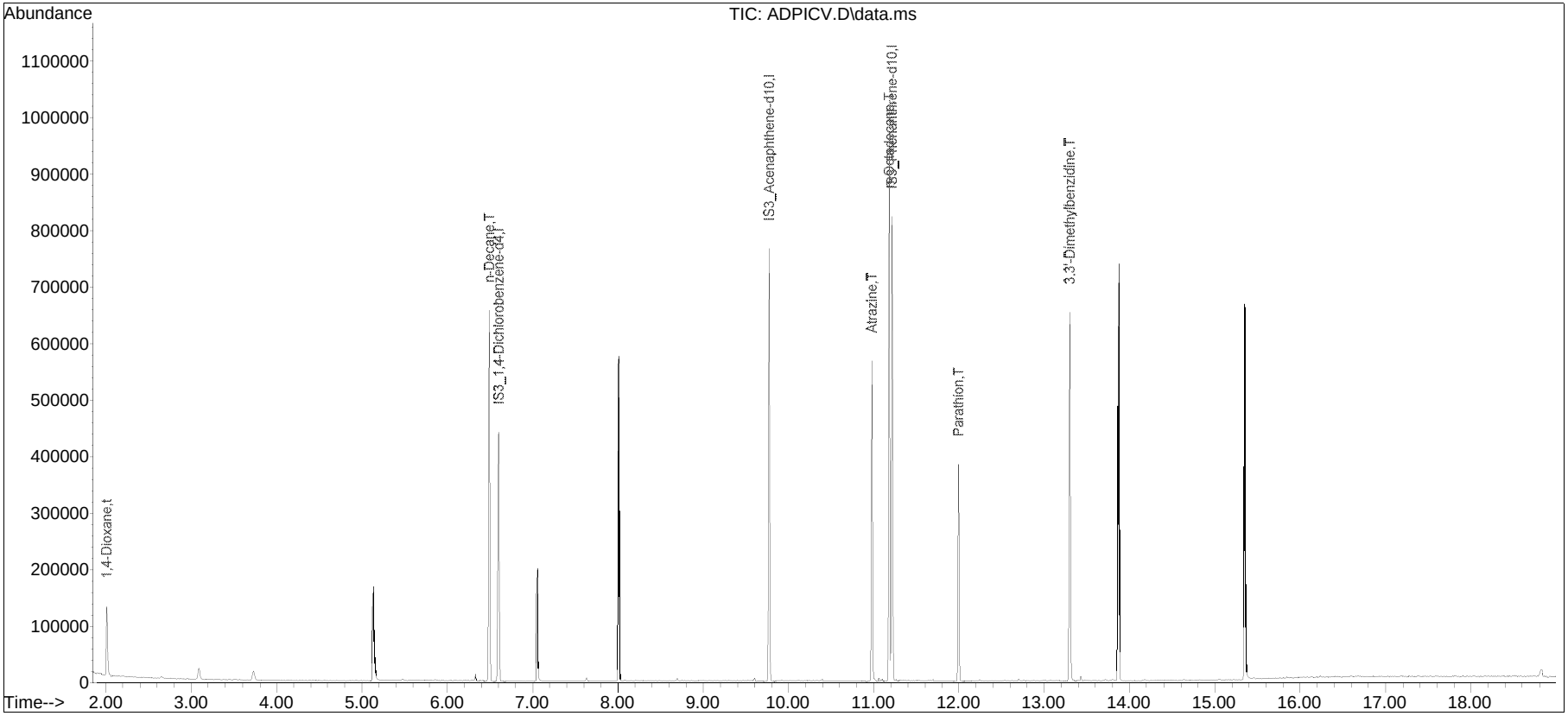
(#) = qualifier out of range (m) = manual integration (+) = signals summed

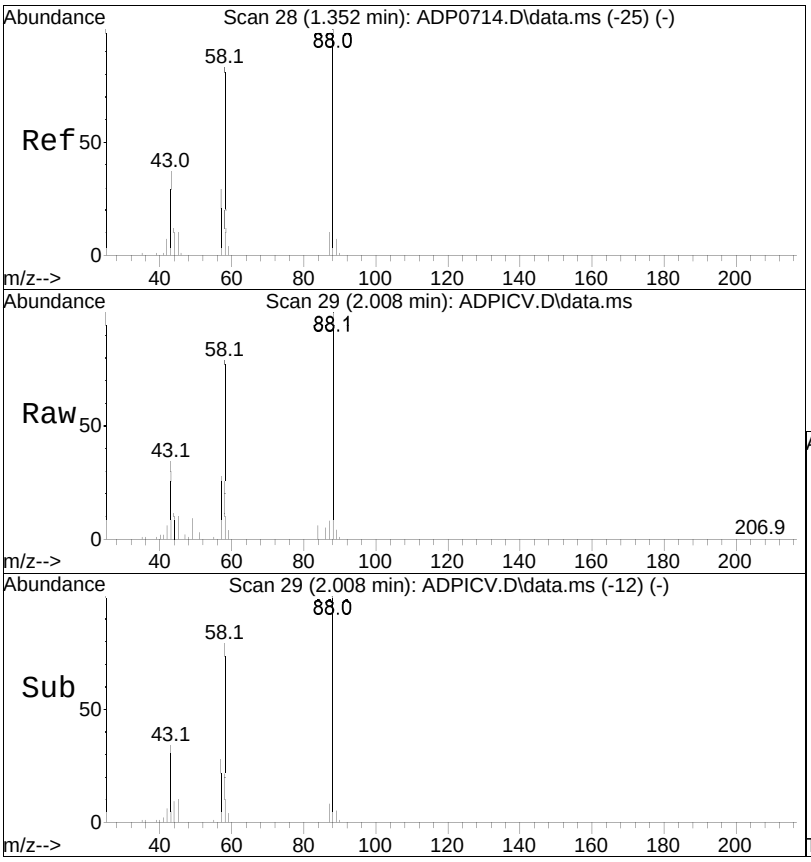
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\241009RVTical\
Data File : ADPICV.D
Acq On : 11 Oct 2024 4:16 pm
Operator : SV106:HNY
Sample : CQICV3,32,,ADPICV Lot# 11033
Misc : WG1984388
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 11 18:37:07 2024
Quant Method : I:\8270\SV106\241011RVTical\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 11 18:38:05 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•

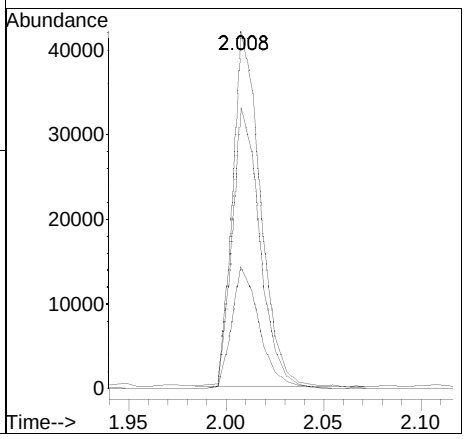


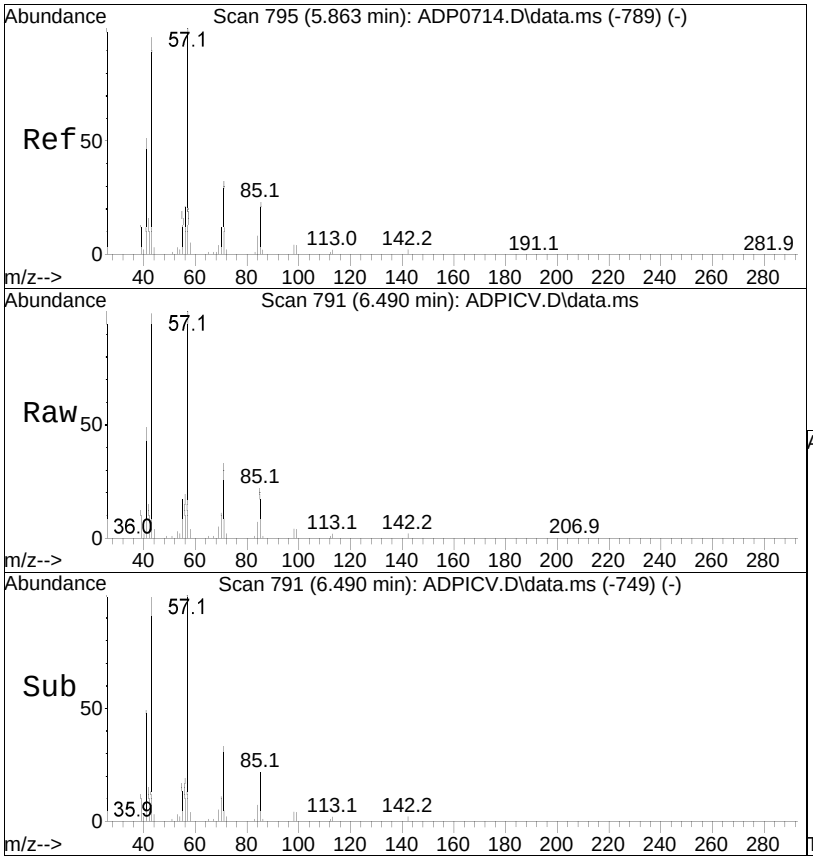


#33
1,4-Dioxane
Concen: 4.89 ug/ml
RT: 2.008 min Scan# 29
Delta R.T. -0.002 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion: 88 Resp: 41435

Ion	Ratio	Lower	Upper
88	100		
58	78.7	44.8	67.2#
43	34.3	22.4	33.6#

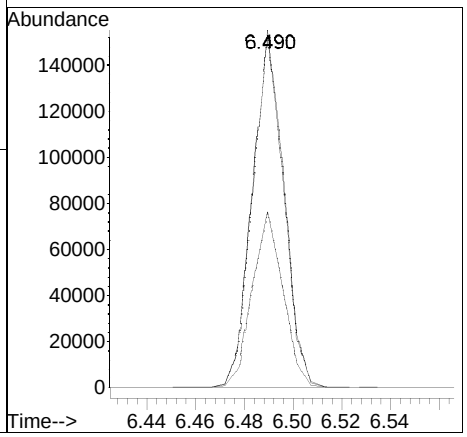


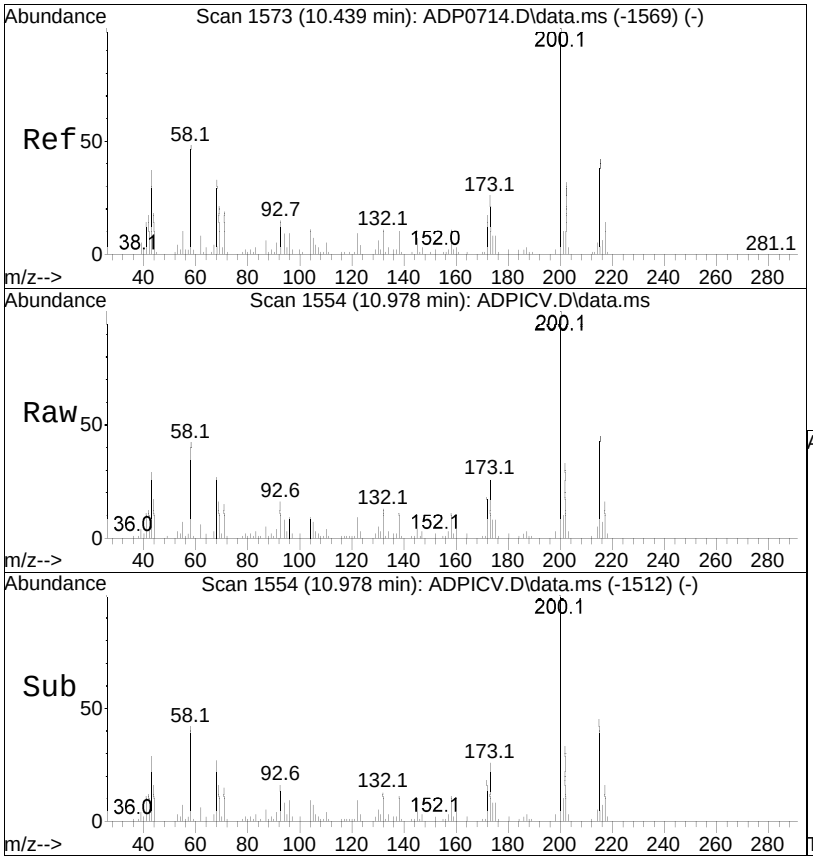


#34
n-Decane
Concen: 5.26 ug/ml
RT: 6.490 min Scan# 791
Delta R.T. -0.002 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion: 57 Resp: 136314

Ion	Ratio	Lower	Upper
57	100		
43	98.8	0.2	0.2#
41	48.9	0.2	0.2#

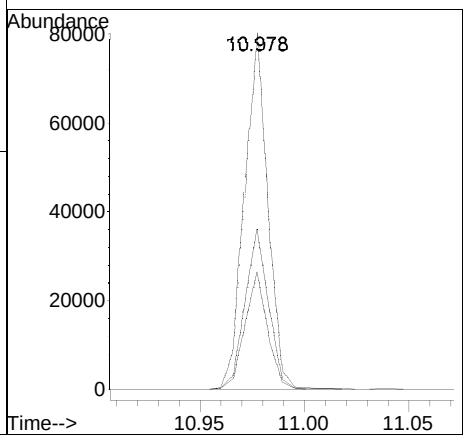


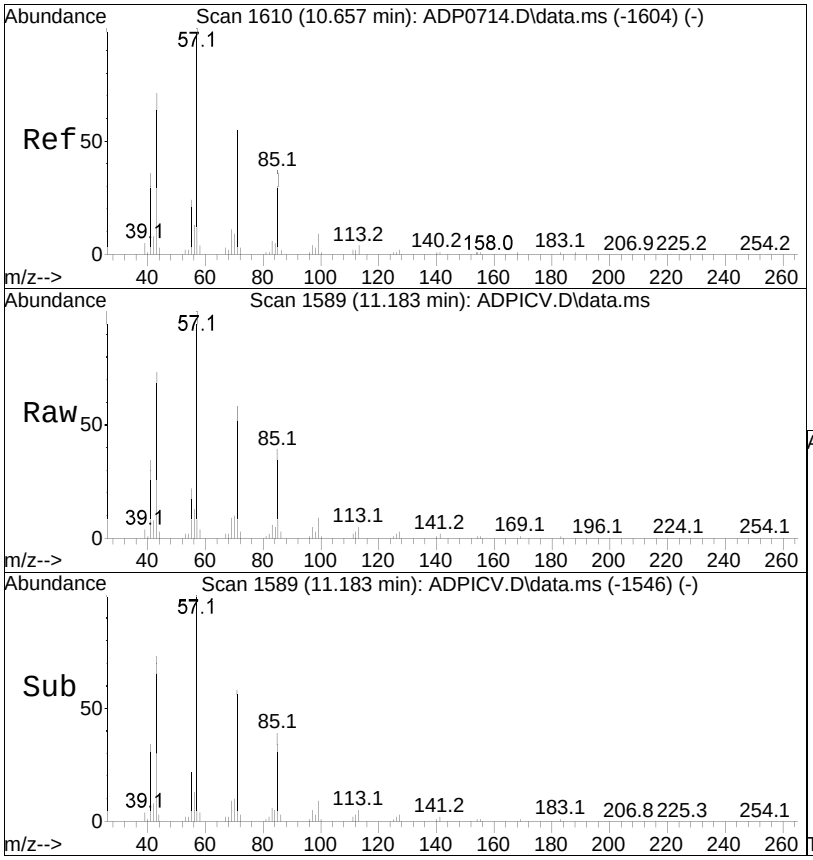


#87
Atrazine
Concen: 3.95 ug/ml
RT: 10.978 min Scan# 1554
Delta R.T. -0.002 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion:200 Resp: 61696

Ion	Ratio	Lower	Upper
200	100		
202	32.3	25.8	38.6
215	45.6	40.2	60.4

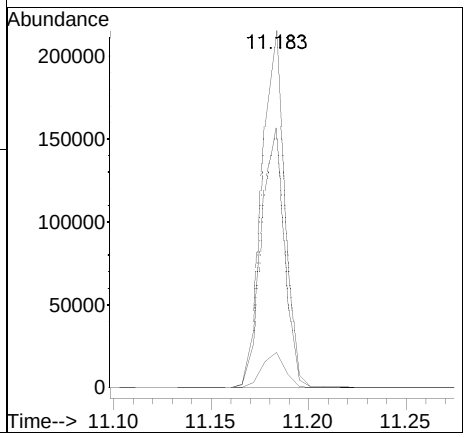


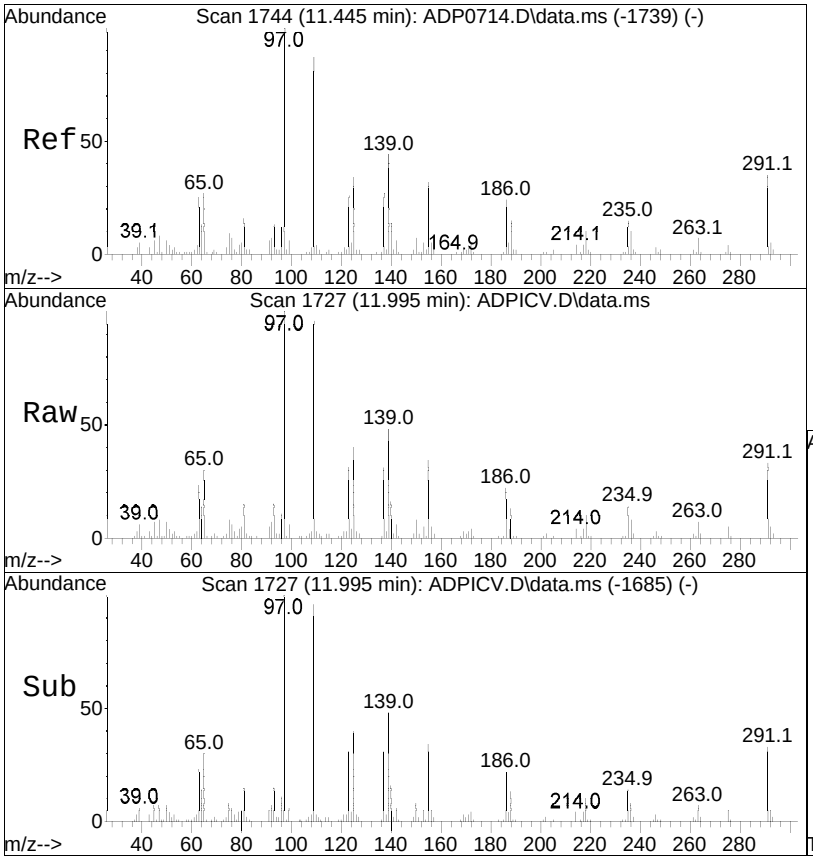


#101
n-Octadecane
Concen: 4.99 ug/ml
RT: 11.183 min Scan# 1589
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion: 57 Resp: 174193

Ion	Ratio	Lower	Upper
57	100		
43	73.9	9.0	13.6#
70	9.9	0.2	0.2#

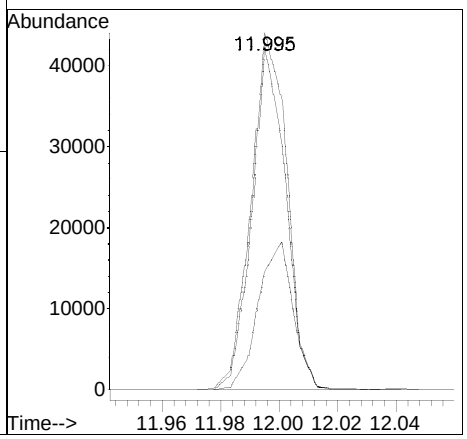


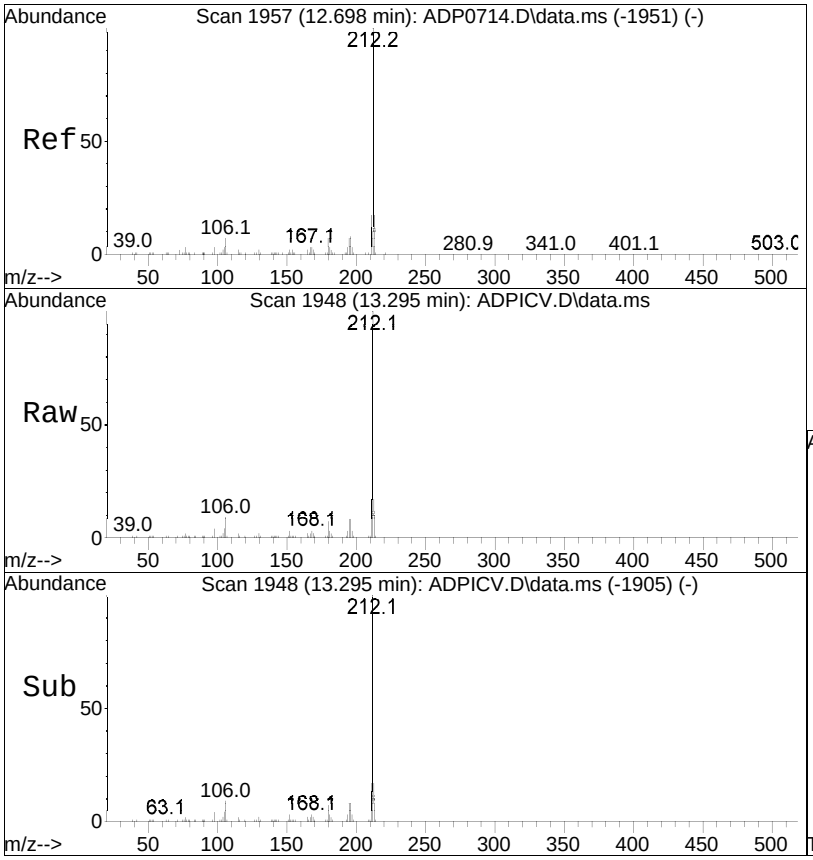


#102
Parathion
Concen: 3.98 ug/ml
RT: 11.995 min Scan# 1727
Delta R.T. -0.003 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion:109 Resp: 33558

Ion	Ratio	Lower	Upper
109	100		
97	111.6	87.4	131.2
291	45.0	34.2	51.2

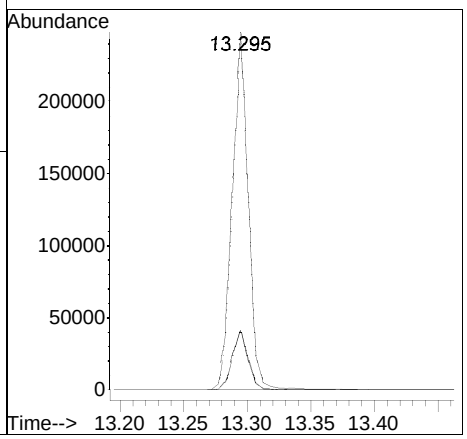




#103
3,3'-Dimethylbenzidine
Concen: 3.62 ug/ml
RT: 13.295 min Scan# 1948
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 11 Oct 2024 4:16 pm

Tgt Ion:212 Resp: 213312

Ion	Ratio	Lower	Upper
212	100		
211	16.7	12.9	19.3
213	16.5	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\241009RVTica	QMethod	: FS241009SV106.m
Data File	: ADPICV.D	Operator	: SV106:HNY
Date Inj'd	: 10/11/2024 4:16 pm	Instrument	: SV 106
Sample	: CQICV3,32,,ADPICV Lot# 110	Quant Date	: 10/11/2024 6:38 pm

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

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\241009RVTical\
Method File : FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Oct 16 05:38:35 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	5.0	4.924	-1.5	2.50	2.638	5.5
66	T 2,4-Dinitrophenol	L	ug/ml	5.0	5.071	1.4	2.50	2.574	3.0
76	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.663	-6.7	0.50	0.618	23.6
102	T Parathion	Q	ug/ml	5.0	4.395	-12.1	0.20	0.255	27.5

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.999398	0.000000	0.293627	-0.0949847
66	T 2,4-Dinitrophenol	Linear	0.999957	0.000000	0.255049	-0.0761305
76	T 4,6-Dinitro-o-cresol	Linear	0.998192	0.000000	0.304418	-0.0260477
102	T Parathion	Quadratic	0.997945	0.003299	0.117574	-0.00336064

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 09:47		
Lab File ID	: ABN0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
n-Nitrosodimethylamine	0.76	0.83	-	-9.2	20	125	0
Pyridine	1.219	1.027	-	15.8	20	96	0
2-Fluorophenol	1.245	1.153	-	7.4	20	107	0
Aniline	1.771	1.903	-	-7.5	20	119	0
2-Chlorophenol	1.365	1.332	-	2.4	20	109	0
Phenol-d6	1.498	1.462	-	2.4	20	113	0
Phenol	1.555	1.592	-	-2.4	20	115	0
Bis(2-chloroethyl)ether	1.28	1.26	-	1.6	20	111	0
1,3-Dichlorobenzene	1.669	1.535	-	8	20	107	0
1,4-Dichlorobenzene	1.7	1.552	-	8.7	20	107	0
1,2-Dichlorobenzene	1.63	1.486	-	8.8	20	105	0
Benzyl alcohol	1.06	1.092	-	-3	20	117	0
Bis(2-chloroisopropyl)ethe	2.014	1.668	-	17.2	20	96	0
2-Methylphenol	1.123	1.176	-	-4.7	20	117	0
Hexachloroethane	0.614	0.593	-	3.4	20	112	0
n-Nitrosodi-n-propylamine	0.94	0.951	-	-1.2	20	113	0
3-Methylphenol/4-Methylphe	1.225	1.251	-	-2.1	20	114	0
Nitrobenzene-d5	1.359	1.469	-	-8.1	20	122	0
Nitrobenzene	1.389	1.507	-	-8.5	20	124	0
Isophorone	2.416	2.514	-	-4.1	20	115	0
2-Nitrophenol	0.713	0.667	-	6.5	20	101	0
2,4-Dimethylphenol	1.119	1.366	-	-22.1*	20	138	0
Bis(2-chloroethoxy)methane	1.614	1.6	-	0.9	20	111	0
2,4-Dichlorophenol	1.25	1.159	-	7.3	20	101	0
1,2,4-Trichlorobenzene	1.449	1.361	-	6.1	20	110	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	1.129	1.027	-	9	20	106	0
Benzoic Acid	5	3.598	-	28*	20	71	0
4-Chloroaniline	0.127	0.137	-	-7.9	20	119	0
Hexachlorobutadiene	0.239	0.233	-	2.5	20	109	0
p-Chloro-m-cresol	0.296	0.303	-	-2.4	20	111	0
2-Methylnaphthalene	0.752	0.62	-	17.6	20	93	0
1-Methylnaphthalene	0.243	0.246	-	-1.2	20	116	0
Hexachlorocyclopentadiene	0.262	0.305	-	-16.4	20	131	0
2,4,6-Trichlorophenol	0.275	0.244	-	11.3	20	96	0
2,4,5-Trichlorophenol	0.285	0.246	-	13.7	20	96	0
2-Fluorobiphenyl	0.926	0.787	-	15	20	96	0
2-Chloronaphthalene	0.785	0.666	-	15.2	20	97	0
2-Nitroaniline	0.223	0.194	-	13	20	93	0
1,4-Dinitrobenzene	0.114	0.104	-	8.8	20	95	0
1,3-Dinitrobenzene	0.125	0.112	-	10.4	20	93	0
Dimethyl phthalate	0.915	0.78	-	14.8	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 09:47		
Lab File ID	: ABN0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.17	1.063	-	9.1	20	101	0
2,6-Dinitrotoluene	0.186	0.167	-	10.2	20	92	0
1,2-Dinitrobenzene	0.081	0.076	-	6.2	20	99	0
IS1_Acenaphthene-d10	1	1	-	0	20	103	0
3-Nitroaniline	0.323	0.292	-	9.6	20	90	0
Acenaphthene	1.157	1.059	-	8.5	20	99	0
2,4-Dinitrophenol	5	4.02	-	19.6	20	75	0
Dibenzofuran	1.872	1.685	-	10	20	99	0
2,4-Dinitrotoluene	0.419	0.411	-	1.9	20	97	0
4-Nitrophenol	0.239	0.253	-	-5.9	20	102	0
2,3,5,6-Tetrachlorophenol	0.39	0.387	-	0.8	20	99	0
2,3,4,6-Tetrachlorophenol	0.385	0.365	-	5.2	20	94	0
Diethyl phthalate	1.518	1.319	-	13.1	20	92	0
Fluorene	1.462	1.336	-	8.6	20	97	0
4-Chlorophenyl phenyl ethe	0.75	0.667	-	11.1	20	96	0
4-Nitroaniline	0.329	0.3	-	8.8	20	93	0
4,6-Dinitro-o-cresol	5	4.269	-	14.6	20	94	0
NDPA/DPA	1.261	1.095	-	13.2	20	90	0
Azobenzene	1.232	1.324	-	-7.5	20	111	0
2,4,6-Tribromophenol	0.226	0.197	-	12.8	20	89	0
4-Bromophenyl phenyl ether	0.465	0.406	-	12.7	20	92	0
Hexachlorobenzene	0.526	0.441	-	16.2	20	92	0
Pentachlorophenol	0.319	0.281	-	11.9	20	89	0
IS1_Phenanthrene-d10	1	1	-	0	20	99	0
Phenanthrene	1.174	1.058	-	9.9	20	93	0
Anthracene	1.17	1.066	-	8.9	20	94	0
Carbazole	1.054	0.95	-	9.9	20	90	0
Di-n-butylphthalate	1.319	1.131	-	14.3	20	83	0
Fluoranthene	1.353	1.174	-	13.2	20	86	0
Benzidine	0.776	0.722	-	7	20	85	0
Pyrene	1.428	1.247	-	12.7	20	87	0
4-Terphenyl-d14	1.073	0.878	-	18.2	20	82	0
Butyl benzyl phthalate	0.555	0.478	-	13.9	20	79	0
IS1_Chrysene-d12	1	1	-	0	20	84	0
Benzo(a)anthracene	1.379	1.269	-	8	20	81	0
3,3'-Dichlorobenzidine	0.453	0.452	-	0.2	20	81	0
Chrysene	1.324	1.206	-	8.9	20	80	0
Bis(2-ethylhexyl)phthalate	0.828	0.801	-	3.3	20	75	0
Di-n-octylphthalate	1.373	1.297	-	5.5	20	72	0
Benzo(b)fluoranthene	1.331	1.241	-	6.8	20	81	0
Benzo(k)fluoranthene	1.24	1.162	-	6.3	20	78	0
Benzo(a)pyrene	1.155	1.11	-	3.9	20	80	0
IS1_Perylene-d12	1	1	-	0	20	82	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 09:47		
Lab File ID	: ABN0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.213	1.08	-	11	20	73	0
Dibenzo(a,h)anthracene	1.153	1.089	-	5.6	20	77	0
Benzo(ghi)perylene	1.08	1.078	-	0.2	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 10:13		
Lab File ID	: AP90305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-4	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	110	0
Benzaldehyde	0.948	0.858	-	9.5	20	97	0
Acetophenone	1.829	1.807	-	1.2	20	110	0
m-Toluidine	1.612	1.524	-	5.5	20	103	0
2-Chloroaniline	1.609	1.519	-	5.6	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	108	0
a-Terpineol	0.282	0.274	-	2.8	20	105	0
3-Chloroaniline	0.132	0.146	-	-10.6	20	113	0
2,6-Dichlorophenol	0.3	0.279	-	7	20	97	0
1-chloro-2-nitrobenzene	0.145	0.143	-	1.4	20	106	0
Caprolactam	0.147	0.117	-	20.4*	20	84	0
1,2,4,5-Tetrachlorobenzene	0.402	0.367	-	8.7	20	99	0
Biphenyl	0.907	0.818	-	9.8	20	95	0
IS2_Acenaphthene-d10	1	1	-	0	20	106	0
Dichloran	0.181	0.156	-	13.8	20	93	0
Pentachloronitrobenzene	0.193	0.179	-	7.3	20	96	0
IS2_Phenanthrene-d10	1	1	-	0	20	98	0
Diphenamid	0.505	0.453	-	10.3	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 10:36		
Lab File ID	: ADP0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-5	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
1,4-Dioxane	0.485	0.502	-	-3.5	20	117	0
n-Decane	1.486	1.366	-	8.1	20	99	0
IS3_Acenaphthene-d10	1	1	-	0	20	93	0
Atrazine	0.415	0.329	-	20.7*	20	78	0
IS3_Phenanthrene-d10	1	1	-	0	20	92	0
n-Octadecane	0.485	0.43	-	11.3	20	82	0
Parathion	5	4.214	-	15.7	20	88	0
3,3'-Dimethylbenzidine	0.821	0.574	-	30.1*	20	71	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 00:49		
Lab File ID	: ABN0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	105	0
n-Nitrosodimethylamine	0.76	0.822	-	-8.2	20	115	0
Pyridine	1.219	1.309	-	-7.4	20	114	0
2-Fluorophenol	1.245	1.168	-	6.2	20	100	0
Aniline	1.771	1.759	-	0.7	20	102	0
2-Chlorophenol	1.365	1.305	-	4.4	20	99	0
Phenol-d6	1.498	1.508	-	-0.7	20	108	0
Phenol	1.555	1.592	-	-2.4	20	107	0
Bis(2-chloroethyl)ether	1.28	1.222	-	4.5	20	100	0
1,3-Dichlorobenzene	1.669	1.521	-	8.9	20	98	0
1,4-Dichlorobenzene	1.7	1.543	-	9.2	20	98	0
1,2-Dichlorobenzene	1.63	1.474	-	9.6	20	97	0
Benzyl alcohol	1.06	1.089	-	-2.7	20	108	0
Bis(2-chloroisopropyl)ethe	2.014	1.679	-	16.6	20	90	0
2-Methylphenol	1.123	1.065	-	5.2	20	98	0
Hexachloroethane	0.614	0.614	-	0	20	108	0
n-Nitrosodi-n-propylamine	0.94	0.941	-	-0.1	20	103	0
3-Methylphenol/4-Methylphe	1.225	1.147	-	6.4	20	97	0
Nitrobenzene-d5	1.359	1.428	-	-5.1	20	110	0
Nitrobenzene	1.389	1.465	-	-5.5	20	112	0
Isophorone	2.416	2.571	-	-6.4	20	109	0
2-Nitrophenol	0.713	0.669	-	6.2	20	94	0
2,4-Dimethylphenol	1.119	0.562	-	49.8*	20	53	0
Bis(2-chloroethoxy)methane	1.614	1.588	-	1.6	20	102	0
2,4-Dichlorophenol	1.25	1.117	-	10.6	20	90	0
1,2,4-Trichlorobenzene	1.449	1.306	-	9.9	20	98	0
IS1_Naphthalene-d8	1	1	-	0	20	100	0
Naphthalene	1.129	1.064	-	5.8	20	98	0
Benzoic Acid	5	5.051	-	-1	20	104	0
4-Chloroaniline	0.127	0.136	-	-7.1	20	106	0
Hexachlorobutadiene	0.239	0.245	-	-2.5	20	103	0
p-Chloro-m-cresol	0.296	0.316	-	-6.8	20	104	0
2-Methylnaphthalene	0.752	0.714	-	5.1	20	96	0
1-Methylnaphthalene	0.243	0.255	-	-4.9	20	108	0
Hexachlorocyclopentadiene	0.262	0.223	-	14.9	20	86	0
2,4,6-Trichlorophenol	0.275	0.243	-	11.6	20	86	0
2,4,5-Trichlorophenol	0.285	0.261	-	8.4	20	91	0
2-Fluorobiphenyl	0.926	0.829	-	10.5	20	91	0
2-Chloronaphthalene	0.785	0.704	-	10.3	20	92	0
2-Nitroaniline	0.223	0.213	-	4.5	20	91	0
1,4-Dinitrobenzene	0.114	0.11	-	3.5	20	90	0
1,3-Dinitrobenzene	0.125	0.127	-	-1.6	20	93	0
Dimethyl phthalate	0.915	0.869	-	5	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 00:49		
Lab File ID	: ABN0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.17	1.079	-	7.8	20	92	0
2,6-Dinitrotoluene	0.186	0.189	-	-1.6	20	93	0
1,2-Dinitrobenzene	0.081	0.082	-	-1.2	20	96	0
IS1_Acenaphthene-d10	1	1	-	0	20	102	0
3-Nitroaniline	0.323	0.299	-	7.4	20	91	0
Acenaphthene	1.157	1.027	-	11.2	20	95	0
2,4-Dinitrophenol	5	4.203	-	15.9	20	79	0
Dibenzofuran	1.872	1.663	-	11.2	20	96	0
2,4-Dinitrotoluene	0.419	0.423	-	-1	20	98	0
4-Nitrophenol	0.239	0.251	-	-5	20	100	0
2,3,5,6-Tetrachlorophenol	0.39	0.368	-	5.6	20	92	0
2,3,4,6-Tetrachlorophenol	0.385	0.367	-	4.7	20	94	0
Diethyl phthalate	1.518	1.388	-	8.6	20	96	0
Fluorene	1.462	1.342	-	8.2	20	96	0
4-Chlorophenyl phenyl ethe	0.75	0.67	-	10.7	20	95	0
4-Nitroaniline	0.329	0.302	-	8.2	20	93	0
4,6-Dinitro-o-cresol	5	4.633	-	7.3	20	101	0
NDPA/DPA	1.261	1.146	-	9.1	20	93	0
Azobenzene	1.232	1.334	-	-8.3	20	110	0
2,4,6-Tribromophenol	0.226	0.2	-	11.5	20	89	0
4-Bromophenyl phenyl ether	0.465	0.404	-	13.1	20	91	0
Hexachlorobenzene	0.526	0.434	-	17.5	20	89	0
Pentachlorophenol	0.319	0.3	-	6	20	94	0
IS1_Phenanthrene-d10	1	1	-	0	20	101	0
Phenanthrene	1.174	1.069	-	8.9	20	96	0
Anthracene	1.17	1.056	-	9.7	20	96	0
Carbazole	1.054	0.993	-	5.8	20	96	0
Di-n-butylphthalate	1.319	1.221	-	7.4	20	91	0
Fluoranthene	1.353	1.276	-	5.7	20	96	0
Benzidine	0.776	0.466	-	39.9*	20	56	0
Pyrene	1.428	1.326	-	7.1	20	95	0
4-Terphenyl-d14	1.073	0.953	-	11.2	20	91	0
Butyl benzyl phthalate	0.555	0.546	-	1.6	20	92	0
IS1_Chrysene-d12	1	1	-	0	20	94	0
Benzo(a)anthracene	1.379	1.286	-	6.7	20	92	0
3,3'-Dichlorobenzidine	0.453	0.421	-	7.1	20	84	0
Chrysene	1.324	1.217	-	8.1	20	90	0
Bis(2-ethylhexyl)phthalate	0.828	0.843	-	-1.8	20	88	0
Di-n-octylphthalate	1.373	1.387	-	-1	20	86	0
Benzo(b)fluoranthene	1.331	1.274	-	4.3	20	93	0
Benzo(k)fluoranthene	1.24	1.171	-	5.6	20	87	0
Benzo(a)pyrene	1.155	1.09	-	5.6	20	88	0
IS1_Perylene-d12	1	1	-	0	20	90	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 00:49		
Lab File ID	: ABN0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.213	1.065	-	12.2	20	79	0
Dibenzo(a,h)anthracene	1.153	1.034	-	10.3	20	80	0
Benzo(ghi)perylene	1.08	0.977	-	9.5	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 01:12		
Lab File ID	: AP90305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-4	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	0.948	0.879	-	7.3	20	90	0
Acetophenone	1.829	1.755	-	4	20	97	0
m-Toluidine	1.612	1.518	-	5.8	20	94	0
2-Chloroaniline	1.609	1.498	-	6.9	20	91	0
IS2_Naphthalene-d8	1	1	-	0	20	94	0
a-Terpineol	0.282	0.282	-	0	20	95	0
3-Chloroaniline	0.132	0.151	-	-14.4	20	102	0
2,6-Dichlorophenol	0.3	0.285	-	5	20	87	0
1-chloro-2-nitrobenzene	0.145	0.142	-	2.1	20	92	0
Caprolactam	0.147	0.139	-	5.4	20	87	0
1,2,4,5-Tetrachlorobenzene	0.402	0.375	-	6.7	20	89	0
Biphenyl	0.907	0.838	-	7.6	20	86	0
IS2_Acenaphthene-d10	1	1	-	0	20	96	0
Dichloran	0.181	0.156	-	13.8	20	84	0
Pentachloronitrobenzene	0.193	0.188	-	2.6	20	91	0
IS2_Phenanthrene-d10	1	1	-	0	20	92	0
Diphenamid	0.505	0.488	-	3.4	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 01:36		
Lab File ID	: ADP0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-5	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
1,4-Dioxane	0.485	0.566	-	-16.7	20	122	0
n-Decane	1.486	1.458	-	1.9	20	98	0
IS3_Acenaphthene-d10	1	1	-	0	20	87	0
Atrazine	0.415	0.335	-	19.3	20	74	0
IS3_Phenanthrene-d10	1	1	-	0	20	85	0
n-Octadecane	0.485	0.438	-	9.7	20	77	0
Parathion	5	4.559	-	8.8	20	88	0
3,3'-Dimethylbenzidine	0.821	0.661	-	19.5	20	75	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305RVT\
Data File : ABN0305.D
Acq On : 5 Mar 2025 9:47 am
Operator : SV106:smz
Sample : wg2036963-3,32,,ABN 11297 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:10:10 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:02 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	114	0.00
2	t	n-Nitrosodimethylamine		0.760	0.830	-9.2	125	0.00
3	t	Pyridine		1.219	1.027	15.8	96	0.00
4	S	2-Fluorophenol		1.245	1.153	7.4	107	0.00
5	T	Aniline		1.771	1.903	-7.5	119	0.00
6	t	2-Chlorophenol		1.365	1.332	2.4	109	0.00
7	S	Phenol-d6		1.498	1.462	2.4	113	0.00
8	T	Phenol		1.555	1.592	-2.4	115	0.00
9	T	Bis(2-chloroethyl)ether		1.280	1.260	1.6	111	0.00
10	T	1,3-Dichlorobenzene		1.669	1.535	8.0	107	0.00
11	T	1,4-Dichlorobenzene		1.700	1.552	8.7	107	0.00
12	T	1,2-Dichlorobenzene		1.630	1.486	8.8	105	0.00
13	t	Benzyl alcohol		1.060	1.092	-3.0	117	0.00
14	T	Bis(2-chloroisopropyl)ether		2.014	1.668	17.2	96	0.00
15	T	2-Methylphenol		1.123	1.176	-4.7	117	0.00
16	T	Hexachloroethane		0.614	0.593	3.4	112	0.00
17	T	n-Nitrosodi-n-propylamine		0.940	0.951	-1.2	113	0.00
18	T	3-Methylphenol/4-Methylphen		1.225	1.251	-2.1	114	0.00
19	S	Nitrobenzene-d5		1.359	1.469	-8.1	122	0.00
20	T	Nitrobenzene		1.389	1.507	-8.5	124	0.00
21	T	Isophorone		2.416	2.514	-4.1	115	0.00
22	T	2-Nitrophenol		0.713	0.667	6.5	101	0.00
23	T	2,4-Dimethylphenol		1.119	1.366	-22.1#	138	0.00
24	T	Bis(2-chloroethoxy)methane		1.614	1.600	0.9	111	0.00
25	T	2,4-Dichlorophenol		1.250	1.159	7.3	101	0.00
26	T	1,2,4-Trichlorobenzene		1.449	1.361	6.1	110	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	112	0.00
36	T	Naphthalene		1.129	1.027	9.0	106	0.00
37	T	Benzoic Acid	*	5.000	3.598	28.0#	71	0.00
38	T	4-Chloroaniline		0.127	0.137	-7.9	119	0.00
39	T	Hexachlorobutadiene		0.239	0.233	2.5	109	0.00
40	T	p-Chloro-m-cresol		0.296	0.303	-2.4	111	0.00
41	T	2-Methylnaphthalene		0.752	0.620	17.6	93	0.00
42	T	1-Methylnaphthalene		0.243	0.246	-1.2	116	0.00
43	T	Hexachlorocyclopentadiene		0.262	0.305	-16.4	131	0.00
44	T	2,4,6-Trichlorophenol		0.275	0.244	11.3	96	0.00
45	T	2,4,5-Trichlorophenol		0.285	0.246	13.7	96	0.00
46	S	2-Fluorobiphenyl		0.926	0.787	15.0	96	0.00

Data Path : I:\8270\SV106\250305RVT\
Data File : ABN0305.D
Acq On : 5 Mar 2025 9:47 am
Operator : SV106:smz
Sample : wg2036963-3,32,,ABN 11297 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:10:10 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:02 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.785	0.666	15.2	97	0.00
48	T	2-Nitroaniline		0.223	0.194	13.0	93	0.00
49	T	1,4-Dinitrobenzene		0.114	0.104	8.8	95	0.00
50	T	1,3-Dinitrobenzene		0.125	0.112	10.4	93	0.00
51	T	Dimethyl phthalate		0.915	0.780	14.8	93	0.00
52	T	Acenaphthylene		1.170	1.063	9.1	101	0.00
53	T	2,6-Dinitrotoluene		0.186	0.167	10.2	92	0.00
54	T	1,2-Dinitrobenzene		0.081	0.076	6.2	99	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	103	0.00
64	T	3-Nitroaniline		0.323	0.292	9.6	90	0.00
65	T	Acenaphthene		1.157	1.059	8.5	99	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.020	19.6	75	0.00
67	T	Dibenzofuran		1.872	1.685	10.0	99	0.00
68	T	2,4-Dinitrotoluene		0.419	0.411	1.9	97	0.00
69	T	4-Nitrophenol		0.239	0.253	-5.9	102	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.390	0.387	0.8	99	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.385	0.365	5.2	94	0.00
72	T	Diethyl phthalate		1.518	1.319	13.1	92	0.00
73	T	Fluorene		1.462	1.336	8.6	97	0.00
74	T	4-Chlorophenyl phenyl ether		0.750	0.667	11.1	96	0.00
75	T	4-Nitroaniline		0.329	0.300	8.8	93	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.269	14.6	94	0.00
77	T	NDPA/DPA		1.261	1.095	13.2	90	0.00
78	T	Azobenzene		1.232	1.324	-7.5	111	0.00
79	S	2,4,6-Tribromophenol		0.226	0.197	12.8	89	0.00
80	T	4-Bromophenyl phenyl ether		0.465	0.406	12.7	92	0.00
81	T	Hexachlorobenzene		0.526	0.441	16.2	92	0.00
82	T	Pentachlorophenol		0.319	0.281	11.9	89	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	99	0.00
89	T	Phenanthrene		1.174	1.058	9.9	93	0.00
90	T	Anthracene		1.170	1.066	8.9	94	0.00
91	T	Carbazole		1.054	0.950	9.9	90	0.00
92	T	Di-n-butylphthalate		1.319	1.131	14.3	83	0.00
93	T	Fluoranthene		1.353	1.174	13.2	86	0.00
94	T	Benzidine		0.776	0.722	7.0	85	0.00
95	T	Pyrene		1.428	1.247	12.7	87	0.00
96	S	4-Terphenyl-d14		1.073	0.878	18.2	82	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305RVT\
Data File : ABN0305.D
Acq On : 5 Mar 2025 9:47 am
Operator : SV106:smz
Sample : wg2036963-3,32,,ABN 11297 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:10:10 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:02 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.555	0.478	13.9	79	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	84	0.00
105	T	Benzo(a)anthracene	1.379	1.269	8.0	81	0.00
106	T	3,3'-Dichlorobenzidine	0.453	0.452	0.2	81	0.00
107	T	Chrysene	1.324	1.206	8.9	80	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.828	0.801	3.3	75	0.00
109	T	Di-n-octylphthalate	1.373	1.297	5.5	72	0.00
110	T	Benzo(b)fluoranthene	1.331	1.241	6.8	81	0.00
111	T	Benzo(k)fluoranthene	1.240	1.162	6.3	78	0.00
112	T	Benzo(a)pyrene	1.155	1.110	3.9	80	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	82	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.213	1.080	11.0	73	0.00
115	T	Dibenzo(a,h)anthracene	1.153	1.089	5.6	77	0.00
116	T	Benzo(ghi)perylene	1.080	1.078	0.2	81	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : ABN0305.D
Acq On : 5 Mar 2025 9:47 am
Operator : SV106:smz
Sample : wg2036963-3,32,,ABN 11297 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:10:10 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:02 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.375	152	78779	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	7.804	136	296328	4.000	ug/ml	#	0.00
63) IS1_Acenaphthene-d10	9.569	164	172610	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	11.010	188	322082	4.000	ug/ml	#	0.00
104) IS1_Chrysene-d12	13.645	240	297393	4.000	ug/ml		0.00
113) IS1_Perylene-d12	15.109	264	311018	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.404	112	113496	4.630	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 231.50%#				
7) Phenol-d6	6.004	99	143947	4.879	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 243.95%#				
19) Nitrobenzene-d5	7.033	82	144612	5.402	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 540.20%#				
46) 2-Fluorobiphenyl	8.933	172	291499	4.250	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 425.00%#				
79) 2,4,6-Tribromophenol	10.339	330	42550	4.357	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 217.85%#				
96) 4-Terphenyl-d14	12.592	244	353650	4.091	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 409.10%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.016	74	81782	5.462	ug/ml	#	61
3) Pyridine	2.063	79	101088	4.212	ug/ml	#	51
5) Aniline	5.963	93	187421	5.373	ug/ml		99
6) 2-Chlorophenol	6.104	128	131128	4.877	ug/ml		94
8) Phenol	6.022	94	156753	5.120	ug/ml		96
9) Bis(2-chloroethyl)ether	6.092	93	124116	4.922	ug/ml	#	83
10) 1,3-Dichlorobenzene	6.298	146	151117	4.598	ug/ml		98
11) 1,4-Dichlorobenzene	6.392	146	152829	4.565	ug/ml		97
12) 1,2-Dichlorobenzene	6.575	146	146357	4.559	ug/ml		98
13) Benzyl alcohol	6.586	79	107557	5.151	ug/ml		96
14) Bis(2-chloroisopropyl)...	6.769	45	164298	4.143	ug/ml	#	41
15) 2-Methylphenol	6.763	108	115821	5.235	ug/ml		98
16) Hexachloroethane	6.963	117	58371	4.828	ug/ml	#	57
17) n-Nitrosodi-n-propylamine	6.916	70	93675	5.059	ug/ml	#	91
18) 3-Methylphenol/4-Methy...	6.945	108	123176	5.105	ug/ml		97
20) Nitrobenzene	7.057	77	148403	5.426	ug/ml		94
21) Isophorone	7.339	82	247579	5.203	ug/ml		94
22) 2-Nitrophenol	7.416	139	65668	4.679	ug/ml	#	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : ABN0305.D
Acq On : 5 Mar 2025 9:47 am
Operator : SV106:smz
Sample : wg2036963-3,32,,ABN 11297 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:10:10 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:02 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.522	107	134474	6.104	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.616	93	157591	4.957	ug/ml	98
25) 2,4-Dichlorophenol	7.681	162	114083	4.634	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.763	180	134052	4.698	ug/ml	98
36) Naphthalene	7.828	128	380341	4.546	ug/ml	99
37) Benzoic Acid	7.598	105	50108	3.598	ug/ml	95
38) 4-Chloroaniline	7.916	65	50768	5.411	ug/ml	97
39) Hexachlorobutadiene	7.998	225	86456	4.888	ug/ml	99
40) p-Chloro-m-cresol	8.445	107	112351	5.120	ug/ml	95
41) 2-Methylnaphthalene	8.545	142	229624	4.119	ug/ml	97
42) 1-Methylnaphthalene	8.645	115	91102	5.051	ug/ml	88
43) Hexachlorocyclopentadiene	8.727	237	113149	5.832	ug/ml	99
44) 2,4,6-Trichlorophenol	8.845	196	90433	4.436	ug/ml	97
45) 2,4,5-Trichlorophenol	8.875	196	91206	4.321	ug/ml	96
47) 2-Chloronaphthalene	9.027	162	246689	4.245	ug/ml	97
48) 2-Nitroaniline	9.139	138	71841	4.343	ug/ml	95
49) 1,4-Dinitrobenzene	9.275	168	38352	4.540	ug/ml	85
50) 1,3-Dinitrobenzene	9.351	168	41650	4.498	ug/ml#	1
51) Dimethyl phthalate	9.351	163	288753	4.262	ug/ml#	98
52) Acenaphthylene	9.427	152	393826	4.545	ug/ml	98
53) 2,6-Dinitrotoluene	9.392	165	61725	4.481	ug/ml#	86
54) 1,2-Dinitrobenzene	9.427	168	28008	4.691	ug/ml#	1
64) 3-Nitroaniline	9.545	138	62979	4.518	ug/ml	94
65) Acenaphthene	9.604	154	228545	4.577	ug/ml	93
66) 2,4-Dinitrophenol	9.645	184	31101	4.020	ug/ml	94
67) Dibenzofuran	9.774	168	363554	4.501	ug/ml	96
68) 2,4-Dinitrotoluene	9.780	165	88776	4.908	ug/ml	98
69) 4-Nitrophenol	9.733	65	54547	5.291	ug/ml#	88
70) 2,3,5,6-Tetrachlorophenol	9.863	232	83445	4.953	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	9.904	232	78732	4.735	ug/ml	97
72) Diethyl phthalate	10.045	149	284685	4.346	ug/ml	98
73) Fluorene	10.104	166	288354	4.571	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.127	204	144021	4.448	ug/ml	92
75) 4-Nitroaniline	10.133	138	64721	4.563	ug/ml#	87
76) 4,6-Dinitro-o-cresol	10.169	198	51586	4.269	ug/ml#	62
77) NDPA/DPA	10.245	169	236184	4.339	ug/ml	96
78) Azobenzene	10.274	77	285687	5.372	ug/ml	98
80) 4-Bromophenyl phenyl e...	10.598	248	87530	4.364	ug/ml#	86
81) Hexachlorobenzene	10.645	284	95208	4.192	ug/ml#	83
82) Pentachlorophenol	10.839	266	60539	4.405	ug/ml	99
89) Phenanthrene	11.033	178	425978	4.508	ug/ml	99

Data Path : I:\8270\SV106\250305RVT\
Data File : ABN0305.D
Acq On : 5 Mar 2025 9:47 am
Operator : SV106:smz
Sample : wg2036963-3,32,,ABN 11297 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:10:10 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:02 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	11.080	178	429311	4.556	ug/ml	99
91) Carbazole	11.251	167	382308	4.506	ug/ml	99
92) Di-n-butylphthalate	11.645	149	455315	4.287	ug/ml	99
93) Fluoranthene	12.186	202	472474	4.335	ug/ml#	92
94) Benzidine	12.339	184	290530	4.651	ug/ml#	95
95) Pyrene	12.404	202	501872	4.365	ug/ml	100
97) Butyl benzyl phthalate	13.121	149	192392	4.309	ug/ml	94
105) Benzo(a)anthracene	13.633	228	471890	4.602	ug/ml	99
106) 3,3'-Dichlorobenzidine	13.633	252	168004	4.987	ug/ml#	96
107) Chrysene	13.668	228	448329	4.556	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	13.762	149	297727	4.836	ug/ml#	94
109) Di-n-octylphthalate	14.445	149	481972	4.721	ug/ml#	72
110) Benzo(b)fluoranthene	14.739	252	461515	4.664	ug/ml#	93
111) Benzo(k)fluoranthene	14.762	252	431826	4.685	ug/ml#	93
112) Benzo(a)pyrene	15.051	252	412601	4.805	ug/ml#	93
114) Indeno(1,2,3-cd)pyrene	16.080	276	419939M6	4.454	ug/mL	
115) Dibenzo(a,h)anthracene	16.103	278	423465	4.722	ug/ml#	88
116) Benzo(ghi)perylene	16.321	276	419218	4.993	ug/ml#	84

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : ABN0305.D
Acq On : 5 Mar 2025 9:47 am
Operator : SV106:smz
Sample : wg2036963-3,32,,ABN 11297 gmr0304A
Misc : wg2036963,,ical21604
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Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:02 2025
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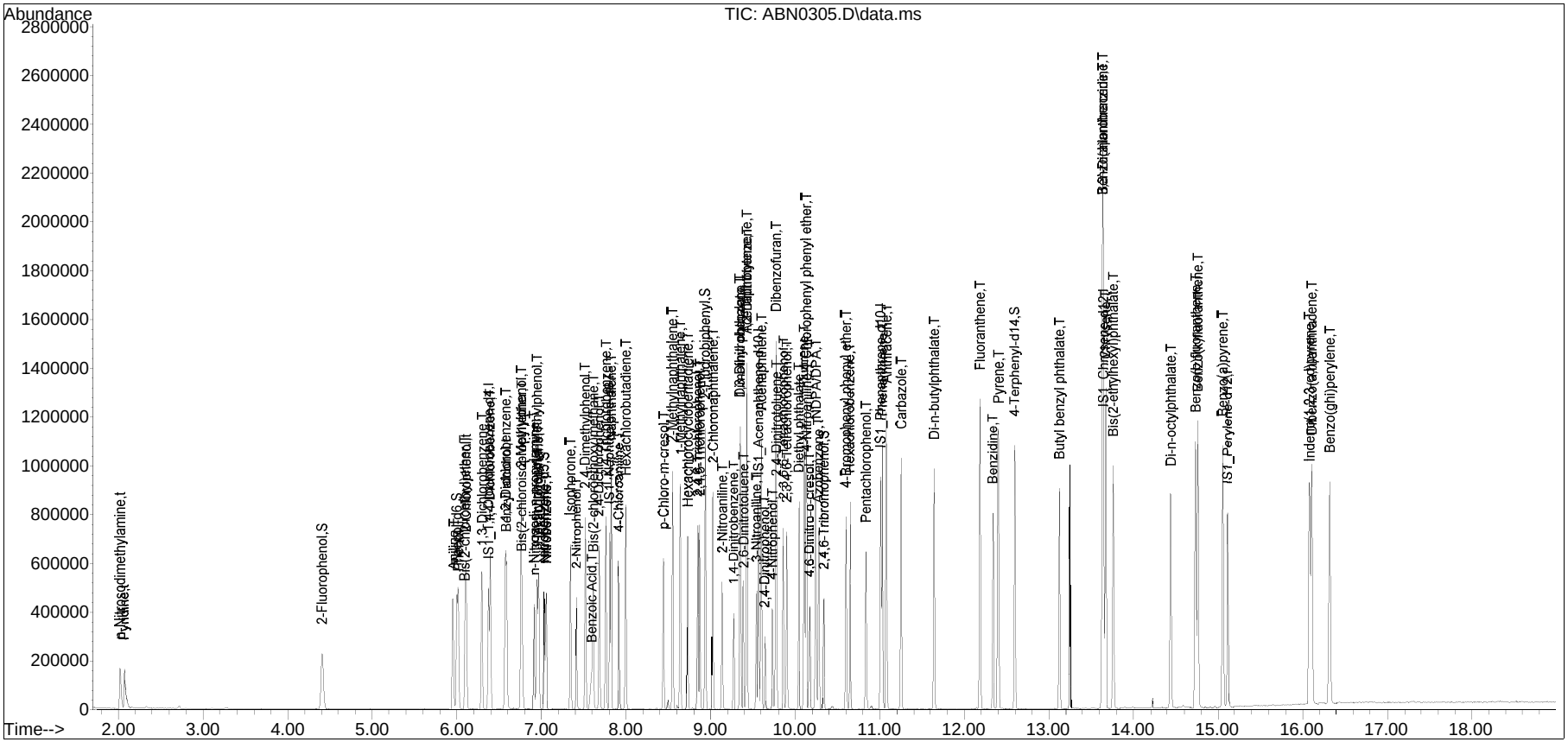
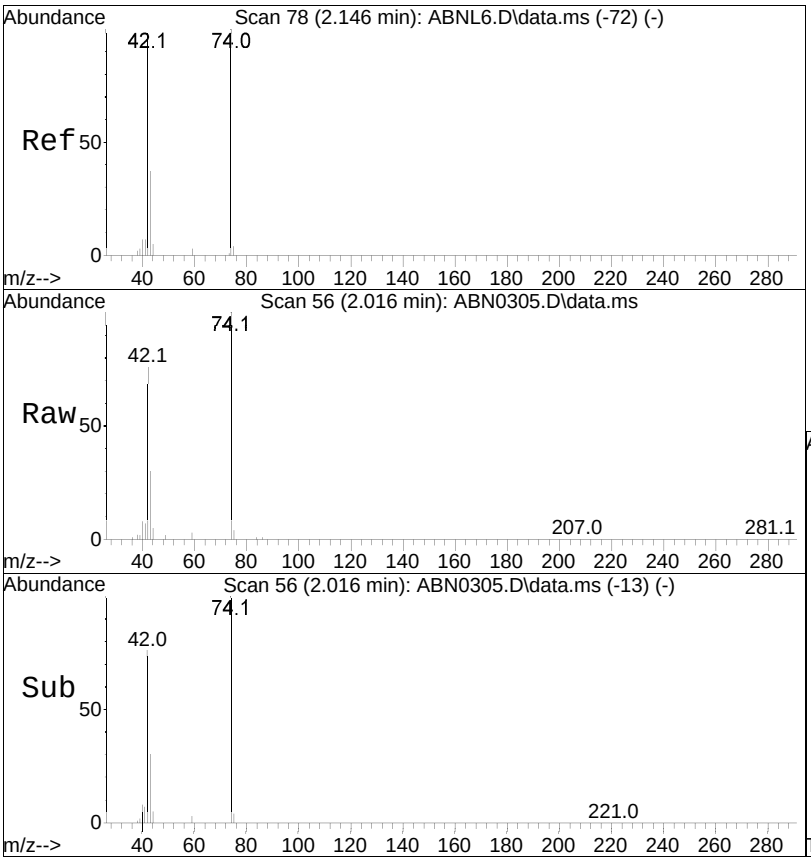
Sub List : ABNical - ABN ical sublist

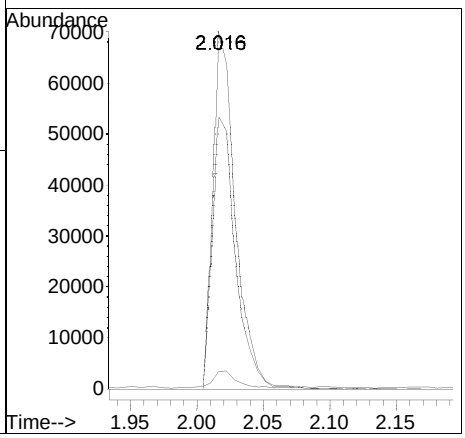


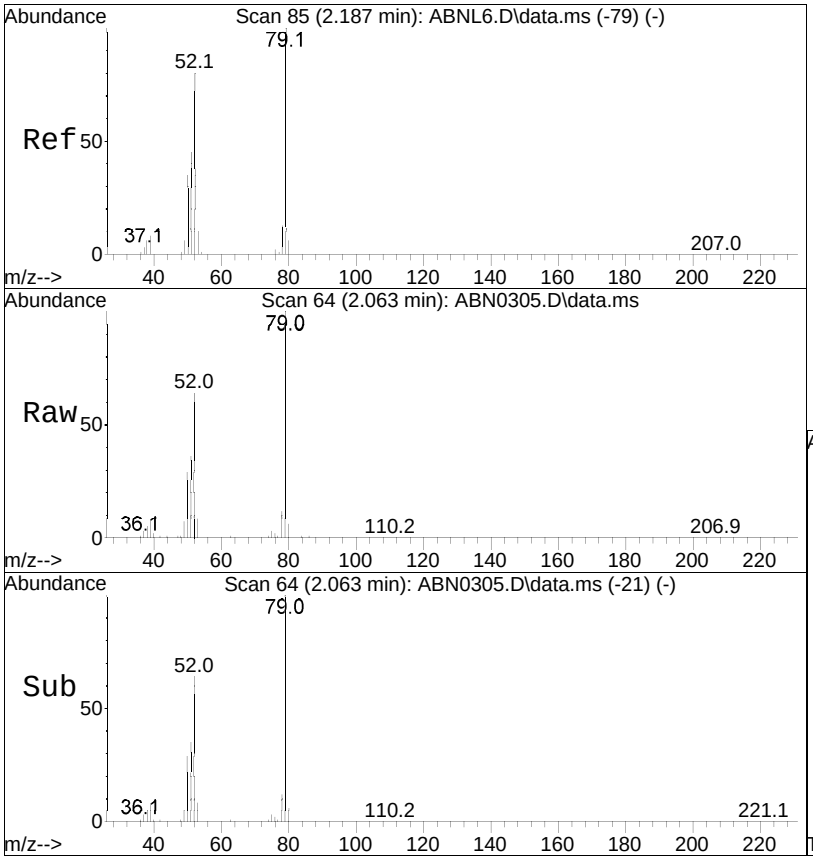


#2
n-Nitrosodimethylamine
Concen: 5.46 ug/ml
RT: 2.016 min Scan# 56
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 74 Resp: 81782

Ion	Ratio	Lower	Upper
74	100		
42	78.3	100.0	150.0#
44	5.2	6.7	10.1#

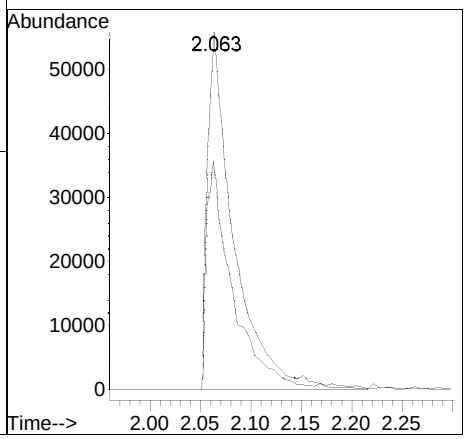


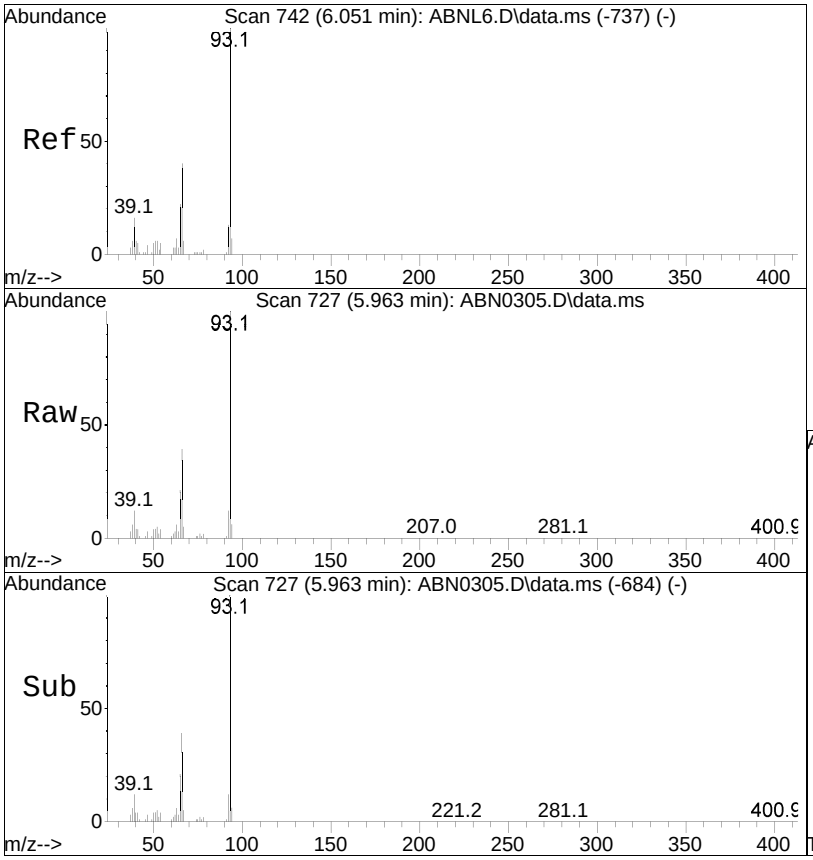


#3
Pyridine
Concen: 4.21 ug/ml
RT: 2.063 min Scan# 64
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 79 Resp: 101088

Ion	Ratio	Lower	Upper
79	100		
52	62.9	93.1	139.7#

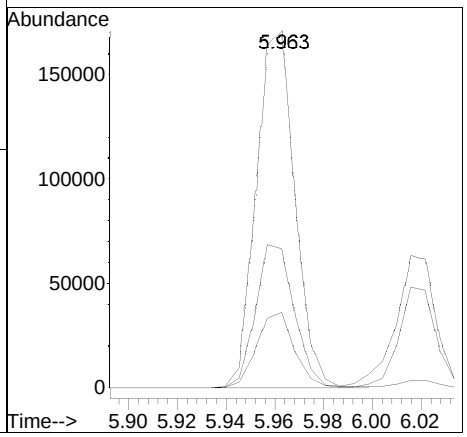


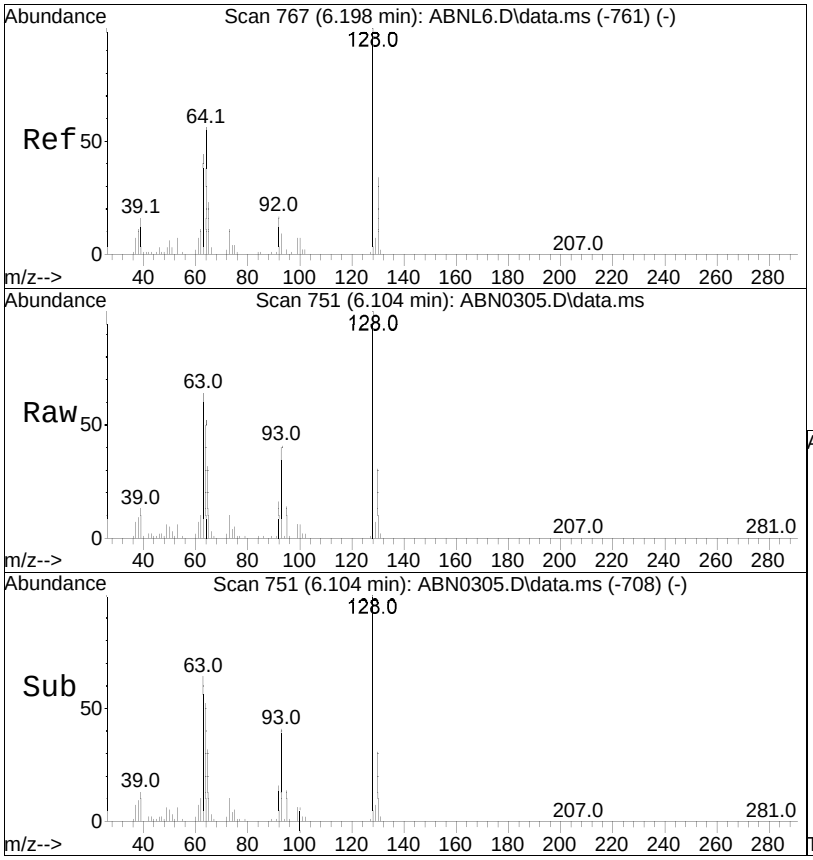


#5
Aniline
Concen: 5.37 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 93 Resp: 187421

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.6	49.0
65	20.7	17.6	26.4

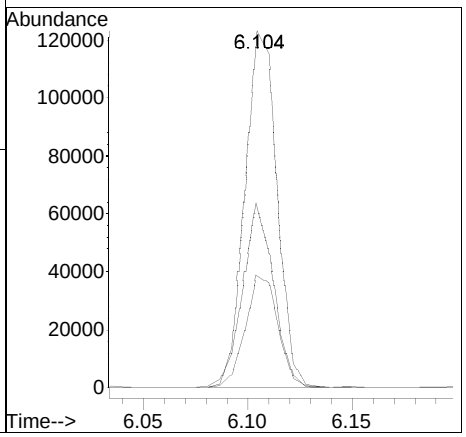


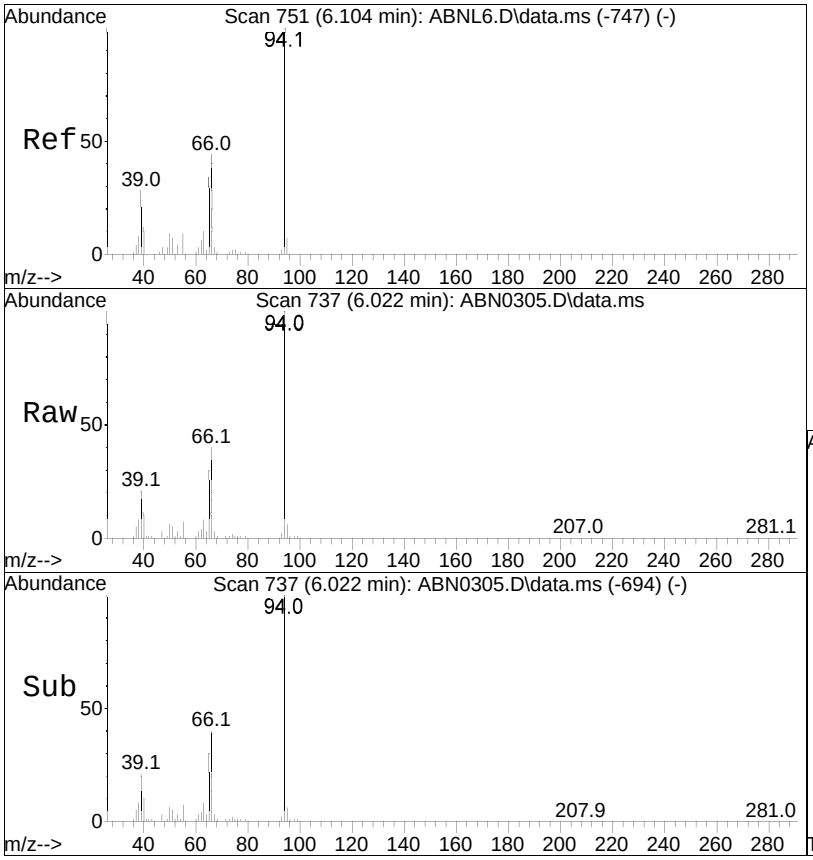


#6
2-Chlorophenol
Concen: 4.88 ug/ml
RT: 6.104 min Scan# 751
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:128 Resp: 131128

Ion	Ratio	Lower	Upper
128	100		
64	50.0	45.1	67.7
130	32.1	26.2	39.4

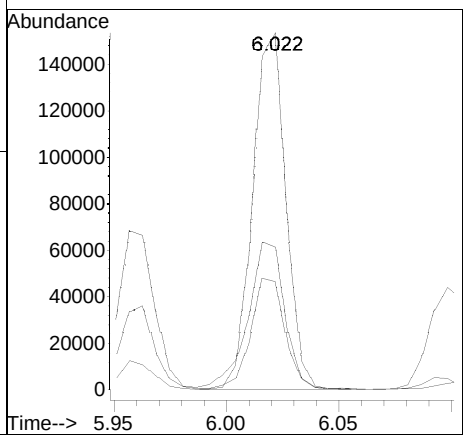


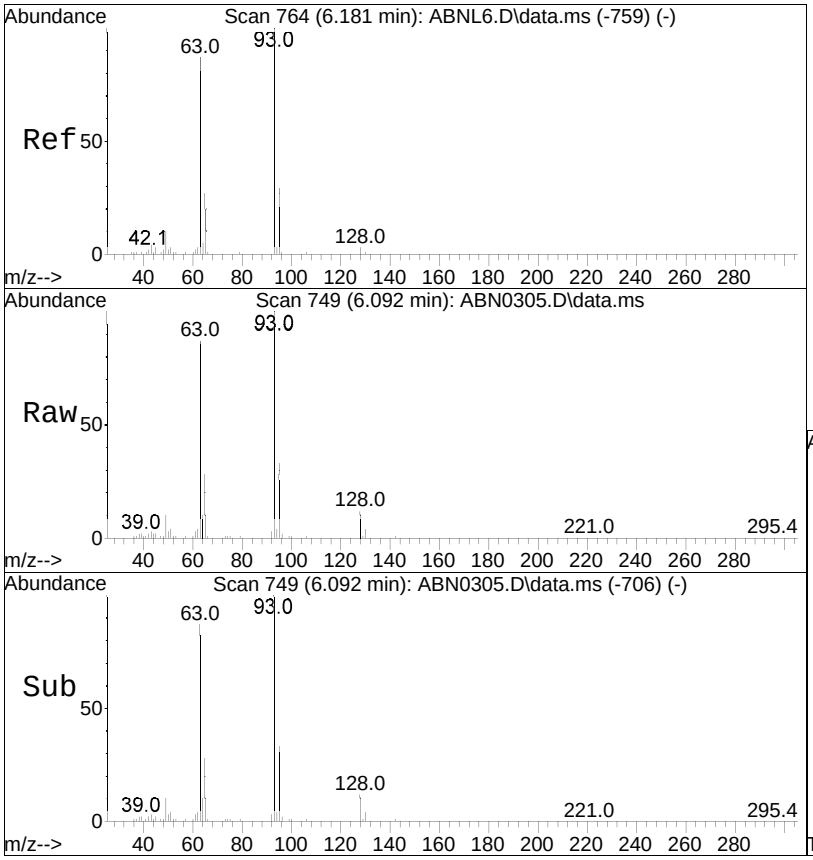


#8
Phenol
Concen: 5.12 ug/ml
RT: 6.022 min Scan# 737
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 94 Resp: 156753

Ion	Ratio	Lower	Upper
94	100		
65	32.7	26.0	39.0
66	46.3	33.8	50.8

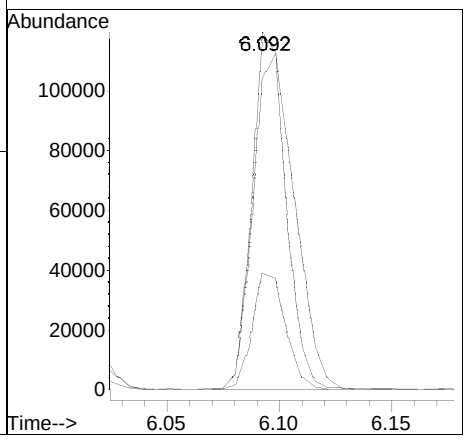


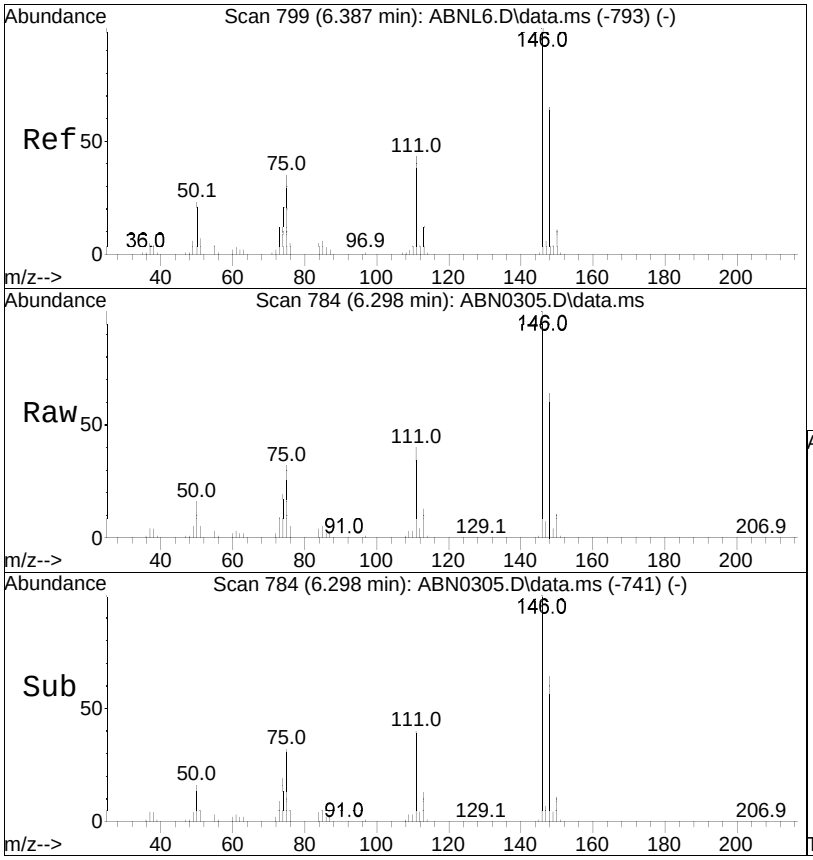


#9
Bis(2-chloroethyl)ether
Concen: 4.92 ug/ml
RT: 6.092 min Scan# 749
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 93 Resp: 124116

Ion	Ratio	Lower	Upper
93	100		
63	115.3	74.6	111.8#
95	32.4	25.9	38.9

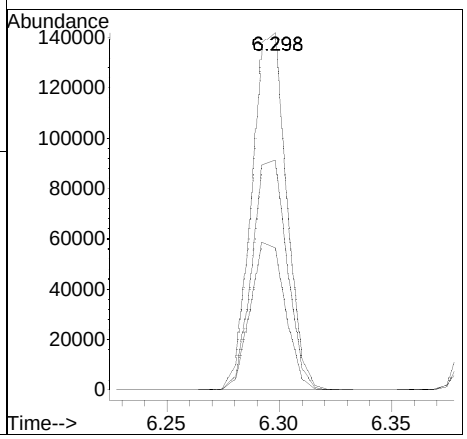


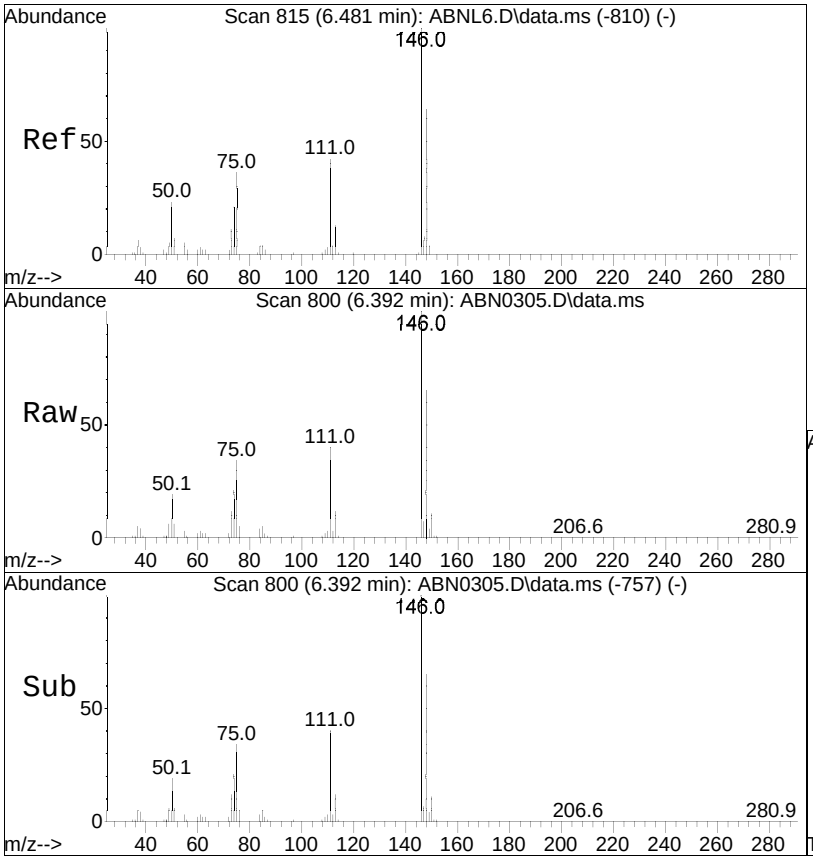


#10
1,3-Dichlorobenzene
Concen: 4.60 ug/ml
RT: 6.298 min Scan# 784
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:146 Resp: 151117

Ion	Ratio	Lower	Upper
146	100		
111	41.7	34.3	51.5
148	64.7	50.8	76.2

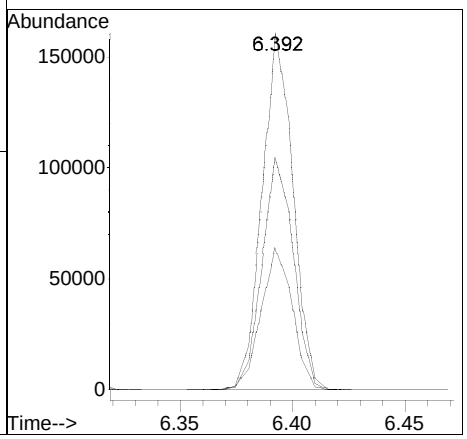


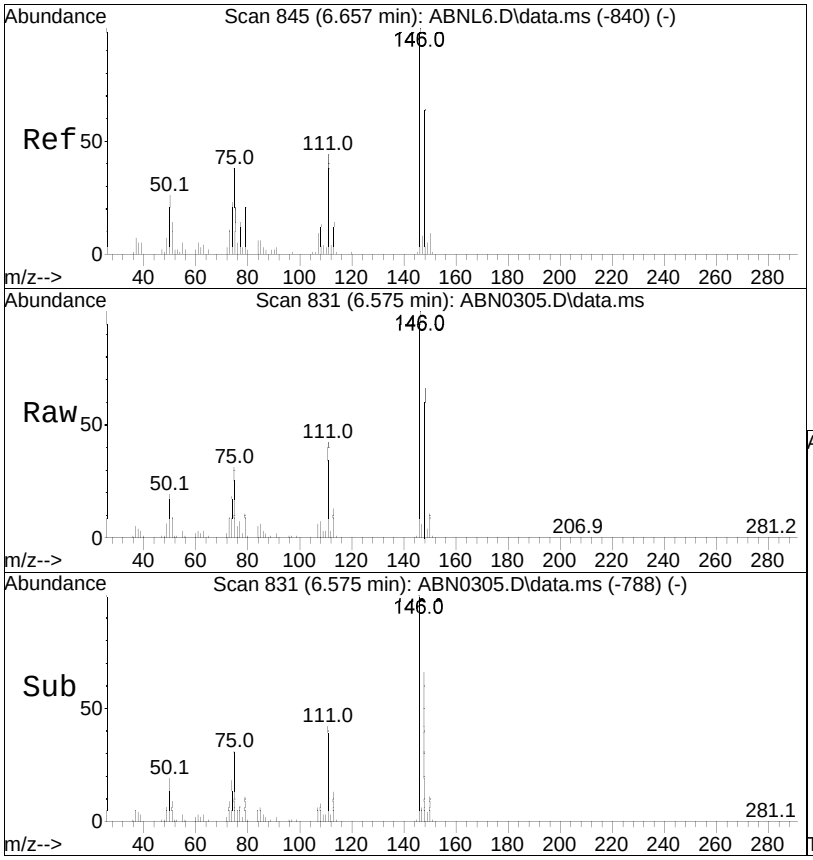


#11
1,4-Dichlorobenzene
Concen: 4.57 ug/ml
RT: 6.392 min Scan# 800
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:146 Resp: 152829

Ion	Ratio	Lower	Upper
146	100		
148	66.4	50.7	76.1
111	40.9	33.4	50.0

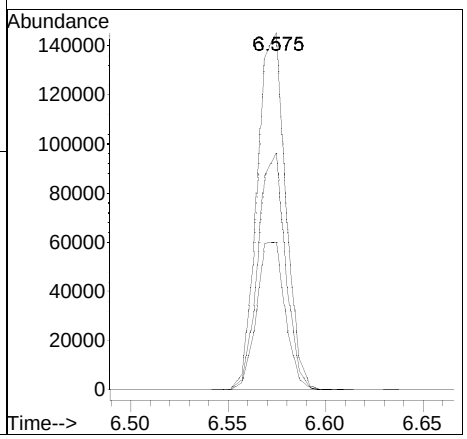


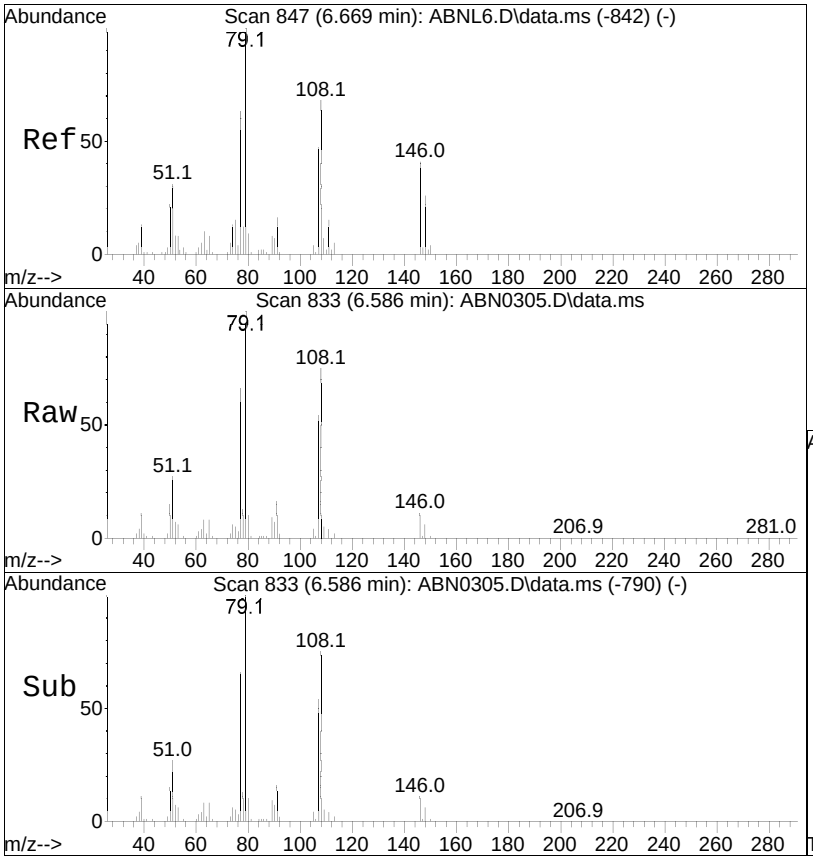


#12
1,2-Dichlorobenzene
Concen: 4.56 ug/ml
RT: 6.575 min Scan# 831
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:146 Resp: 146357

Ion	Ratio	Lower	Upper
146	100		
111	41.8	34.6	52.0
148	64.3	50.2	75.4

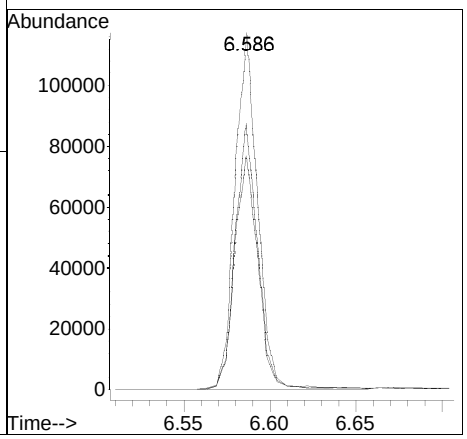


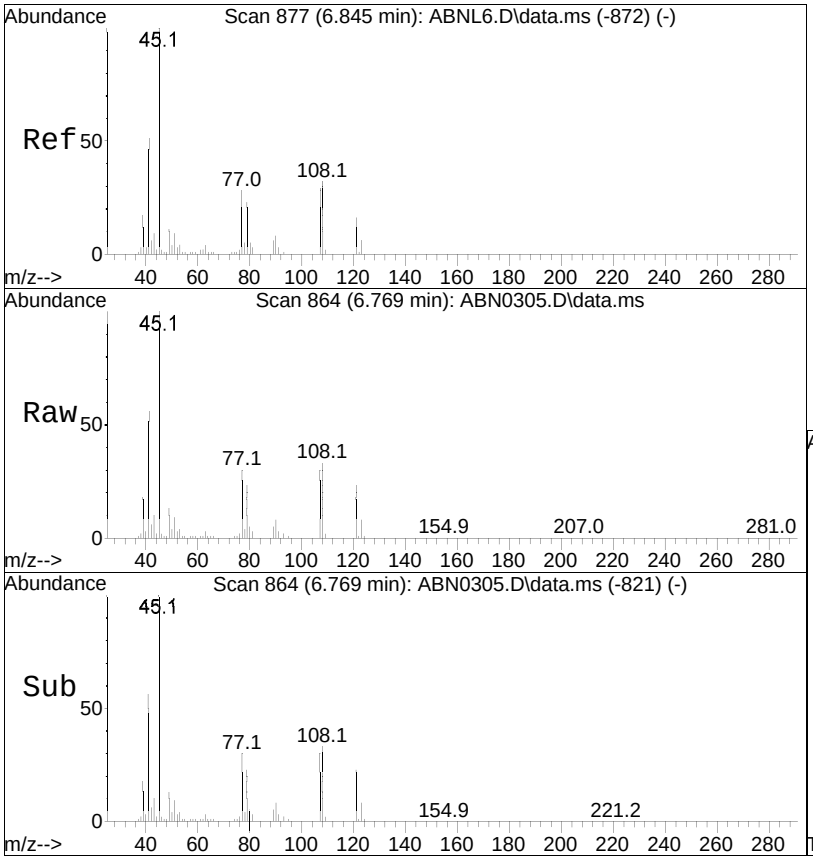


#13
Benzyl alcohol
Concen: 5.15 ug/ml
RT: 6.586 min Scan# 833
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 79 Resp: 107557

Ion	Ratio	Lower	Upper
79	100		
77	66.8	54.9	82.3
108	73.6	63.1	94.7

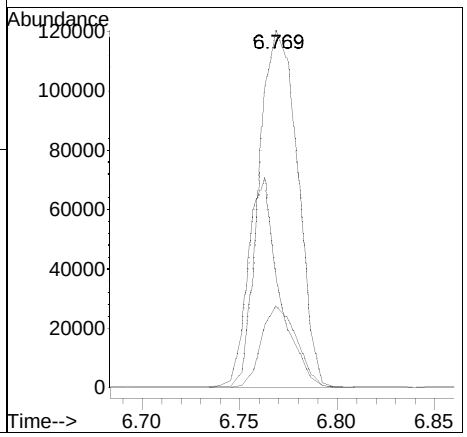


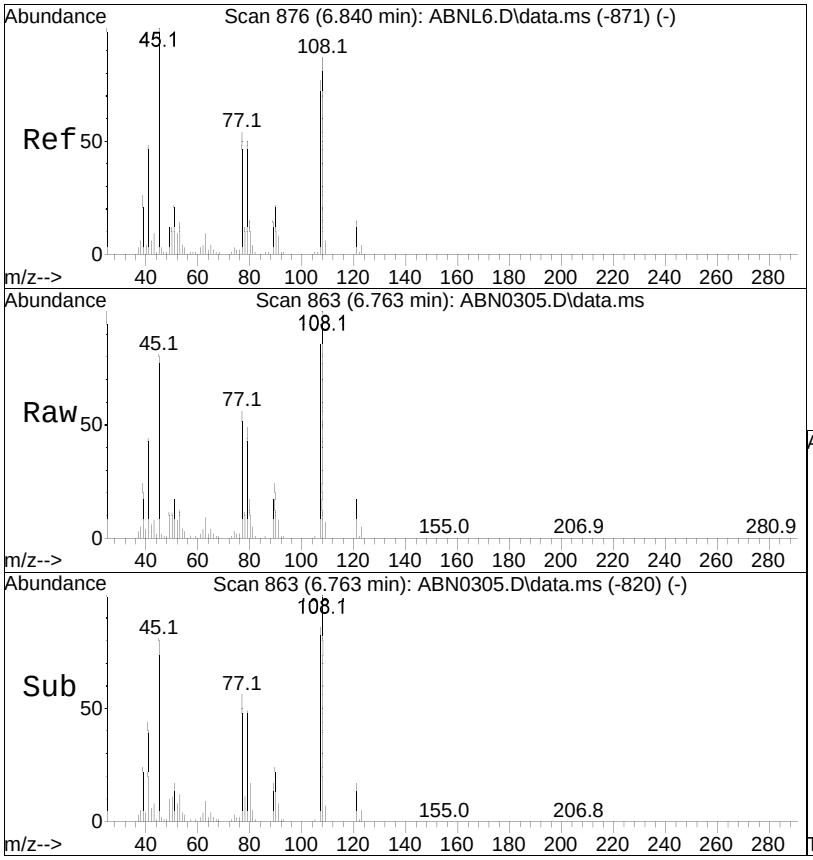


#14
Bis(2-chloroisopropyl)ether
Concen: 4.14 ug/ml
RT: 6.769 min Scan# 864
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 45 Resp: 164298

Ion	Ratio	Lower	Upper
45	100		
121	21.1	9.8	14.6#
77	48.1	6.1	9.1#

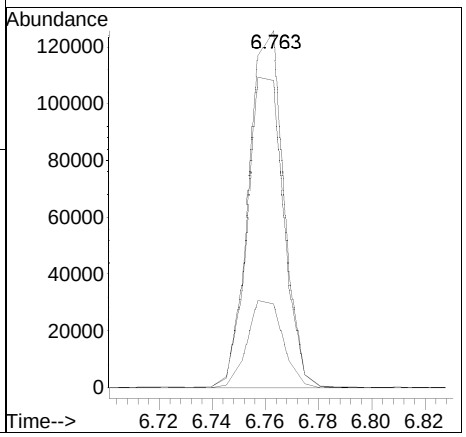


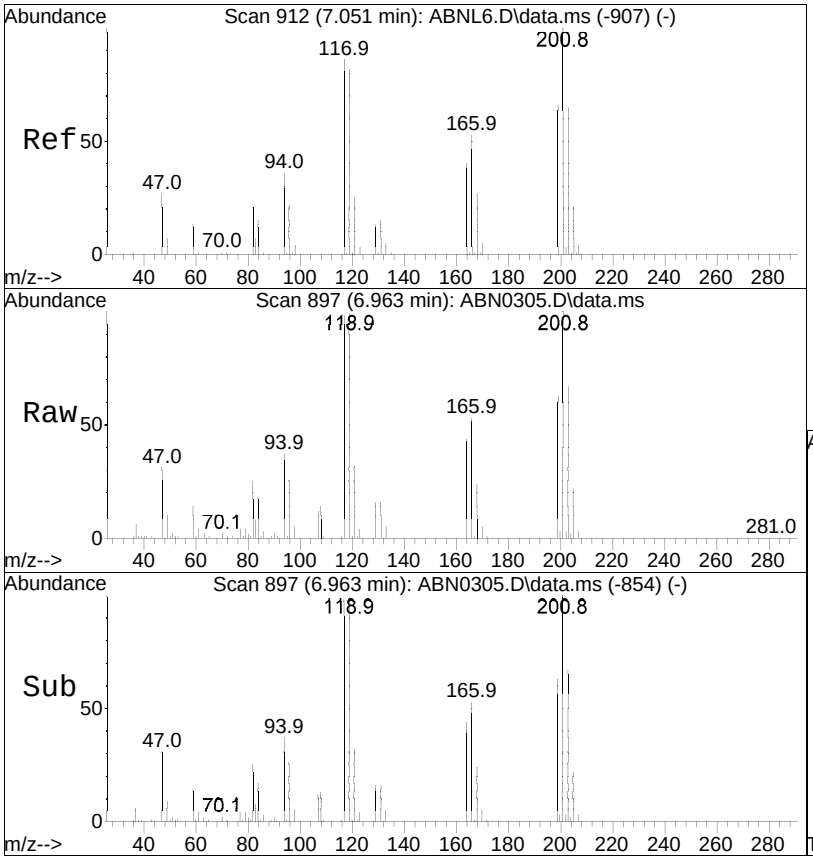


#15
2-Methylphenol
Concen: 5.24 ug/ml
RT: 6.763 min Scan# 863
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:108 Resp: 115821

Ion	Ratio	Lower	Upper
108	100		
107	90.4	70.7	106.1
90	25.0	18.7	28.1

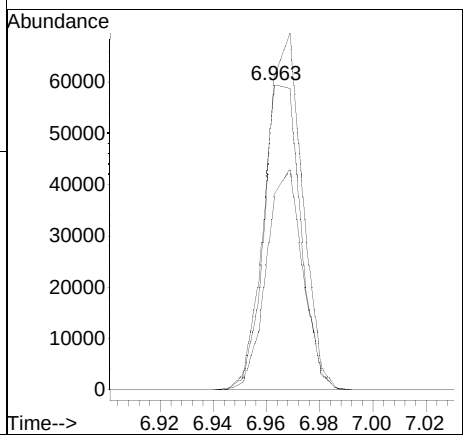


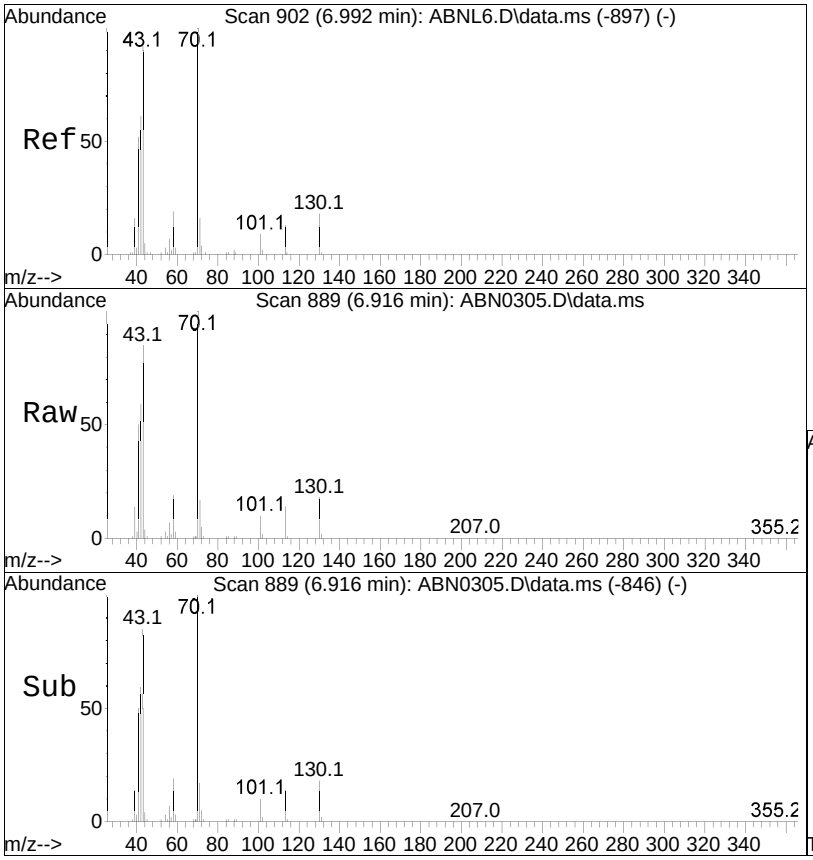


#16
Hexachloroethane
Concen: 4.83 ug/ml
RT: 6.963 min Scan# 897
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:117 Resp: 58371

Ion	Ratio	Lower	Upper
117	100		
201	111.9	58.6	87.8#
199	70.6	36.9	55.3#

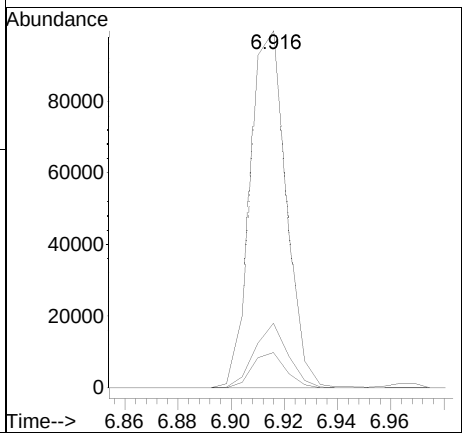


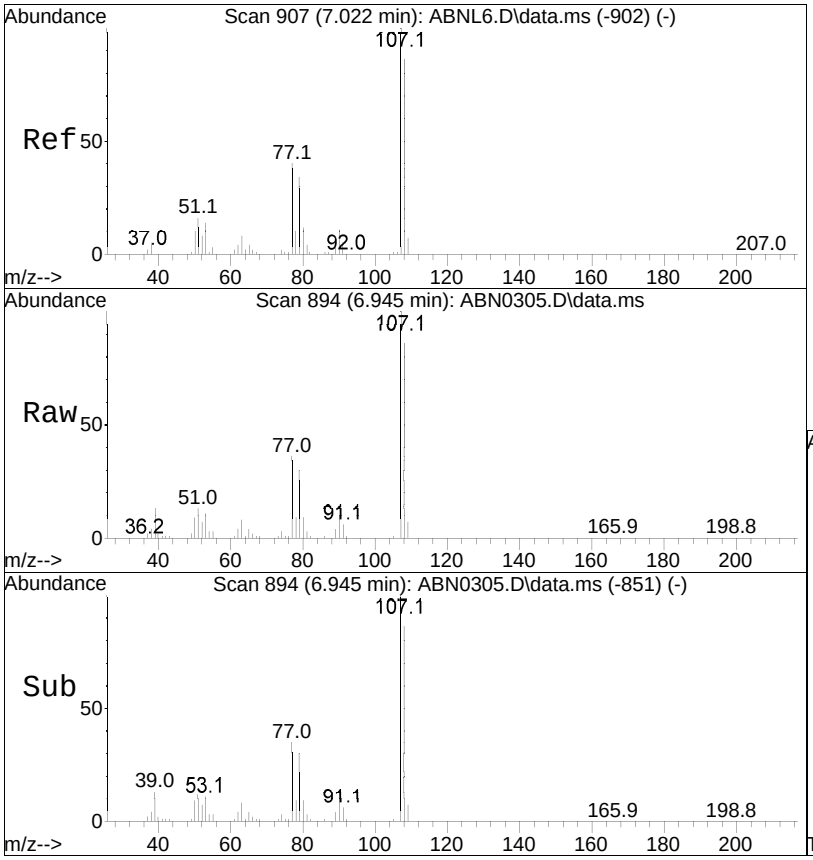


#17
n-Nitrosodi-n-propylamine
Concen: 5.06 ug/ml
RT: 6.916 min Scan# 889
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 70 Resp: 93675

Ion	Ratio	Lower	Upper
70	100		
130	16.8	18.2	27.4#
101	9.2	7.8	11.8

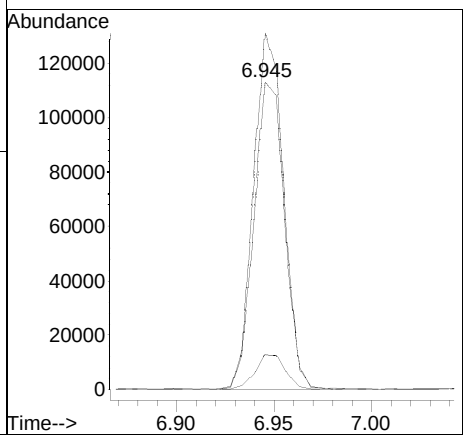


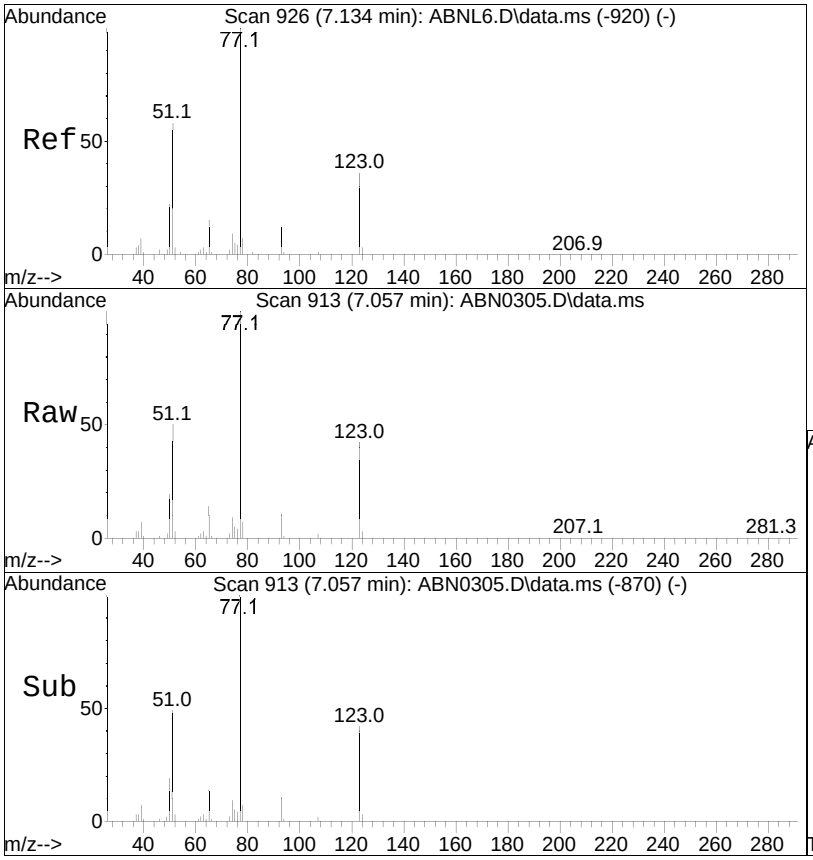


#18
3-Methylphenol/4-Methylphenol
Concen: 5.10 ug/ml
RT: 6.945 min Scan# 894
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:108 Resp: 123176

Ion	Ratio	Lower	Upper
108	100		
107	114.1	88.6	132.8
90	11.3	8.8	13.2

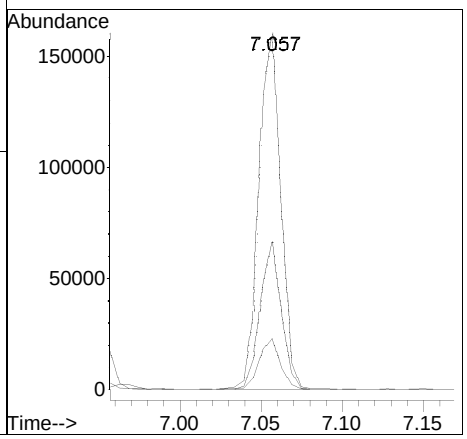


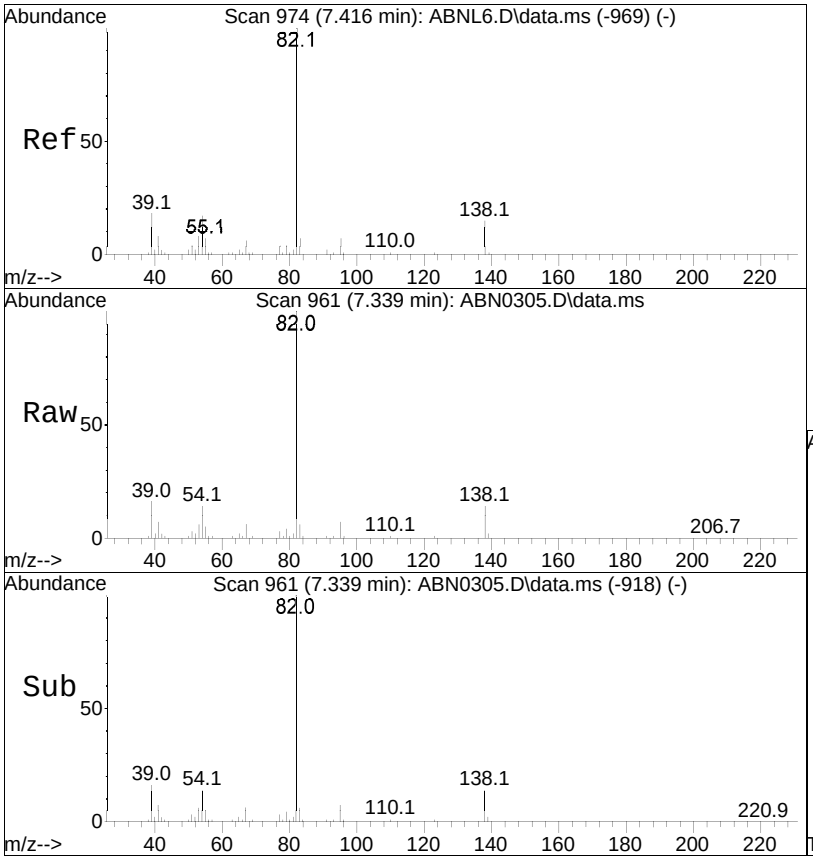


#20
Nitrobenzene
Concen: 5.43 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 77 Resp: 148403

Ion	Ratio	Lower	Upper
77	100		
123	40.0	36.3	54.5
65	14.1	11.6	17.4

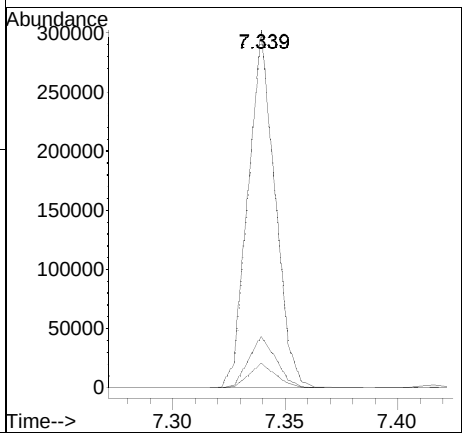


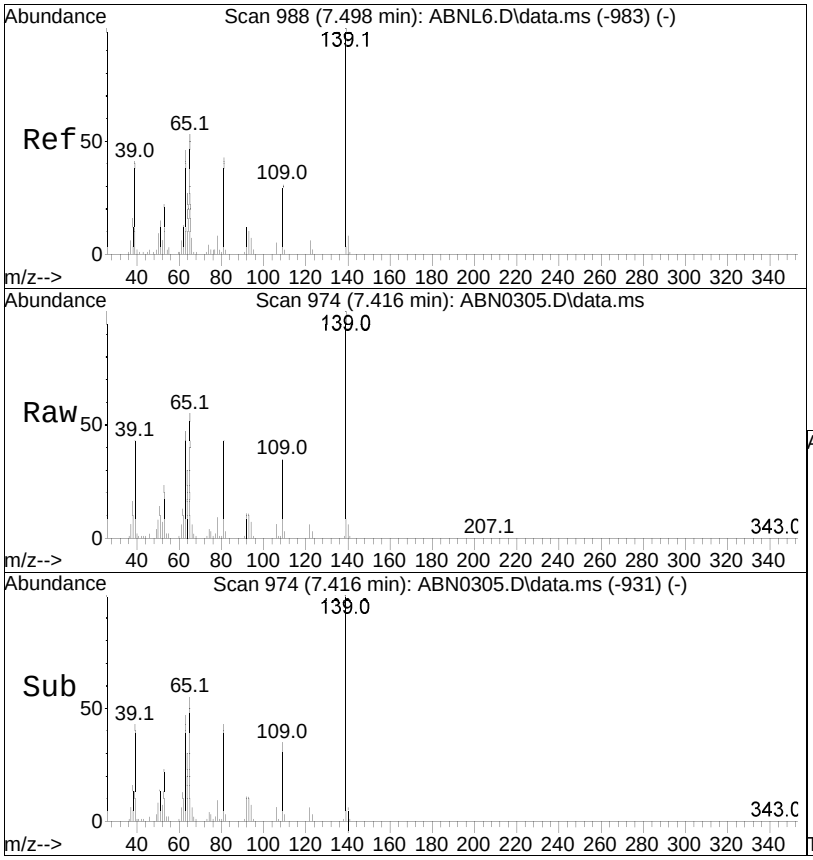


#21
Isophorone
Concen: 5.20 ug/ml
RT: 7.339 min Scan# 961
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 82 Resp: 247579

Ion	Ratio	Lower	Upper
82	100		
138	14.8	14.7	22.1
95	6.9	5.2	7.8

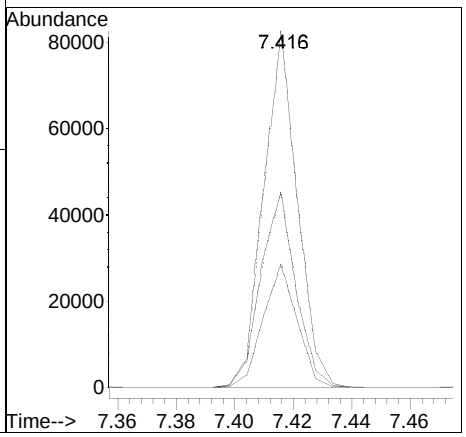


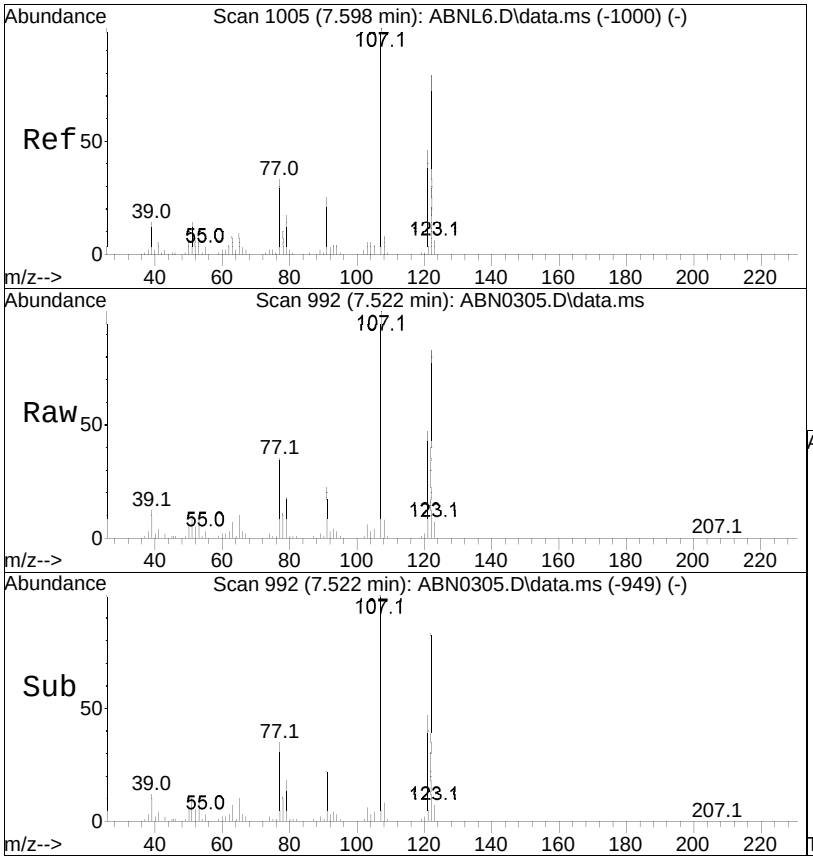


#22
2-Nitrophenol
Concen: 4.68 ug/ml
RT: 7.416 min Scan# 974
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:139 Resp: 65668

Ion	Ratio	Lower	Upper
139	100		
109	35.1	19.4	29.0#
65	57.1	46.1	69.1

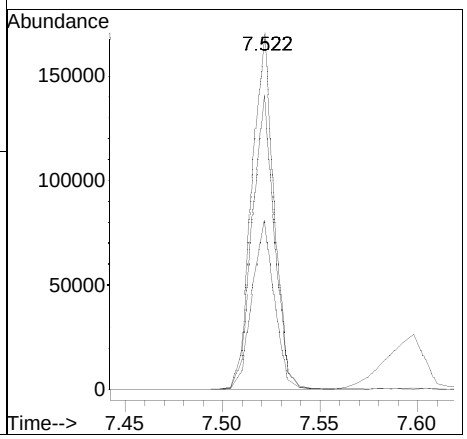


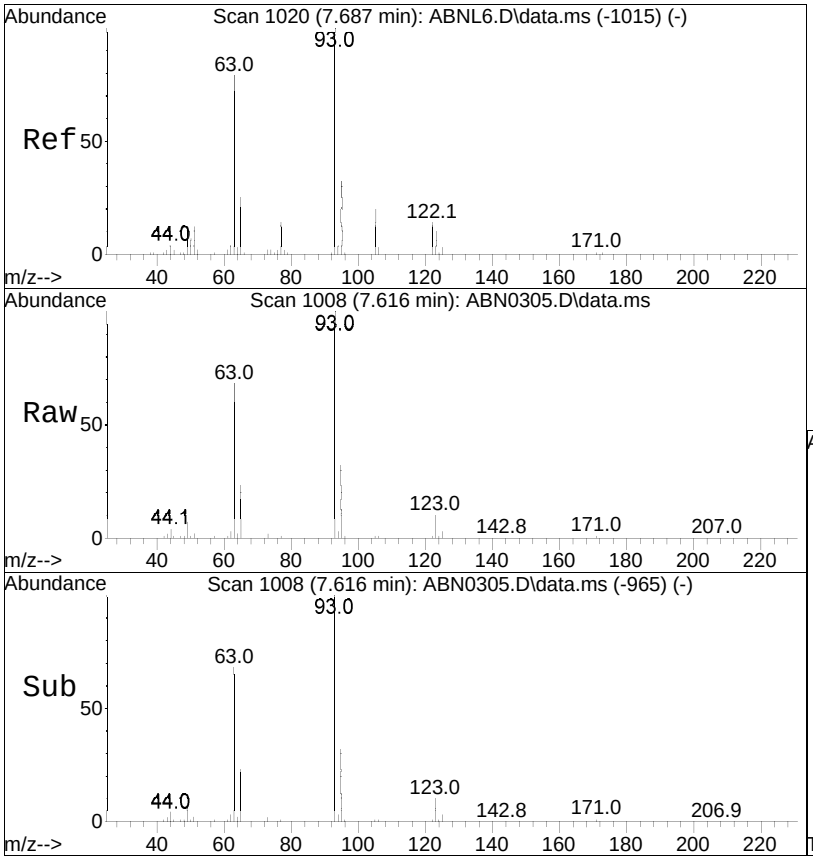


#23
2,4-Dimethylphenol
Concen: 6.10 ug/ml
RT: 7.522 min Scan# 992
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:107 Resp: 134474

Ion	Ratio	Lower	Upper
107	100		
121	47.7	40.0	60.0
122	82.1	70.2	105.4

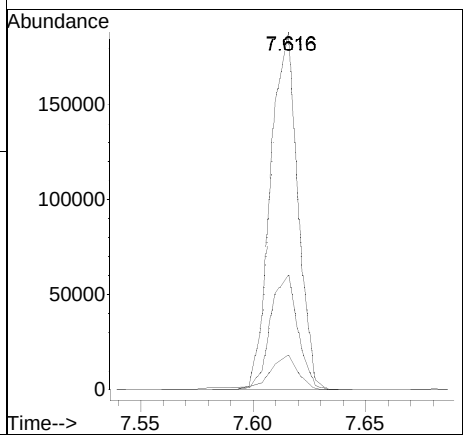


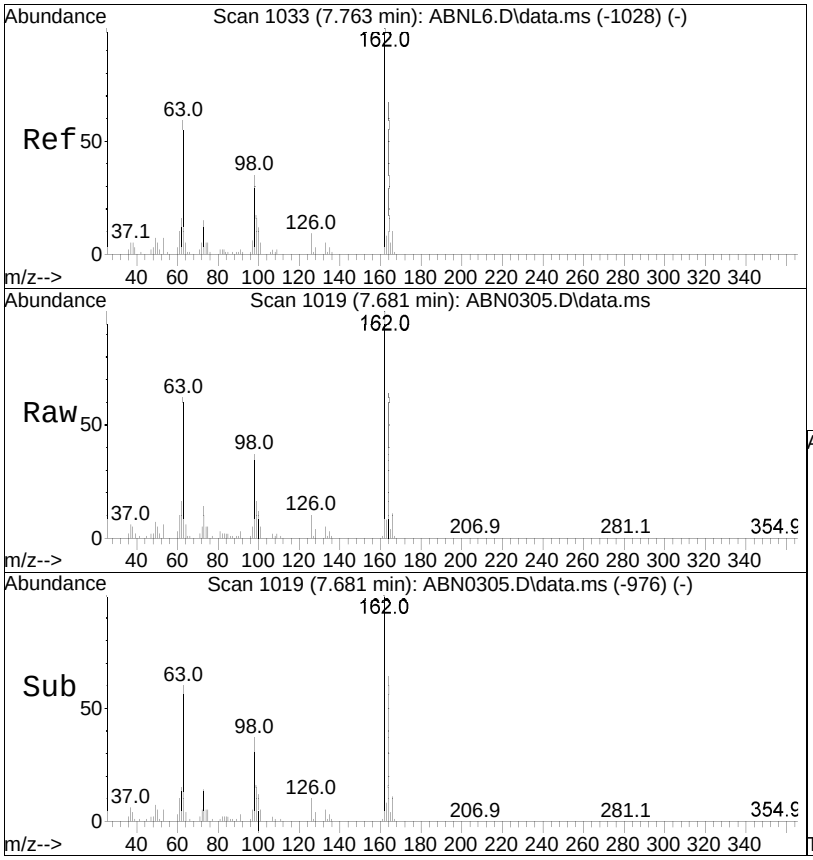


#24
Bis(2-chloroethoxy)methane
Concen: 4.96 ug/ml
RT: 7.616 min Scan# 1008
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 93 Resp: 157591

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.8	38.8
123	11.1	10.1	15.1

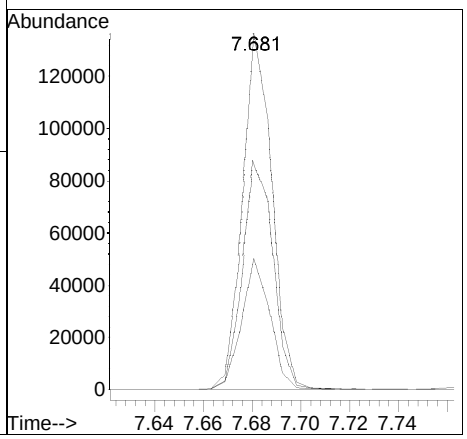


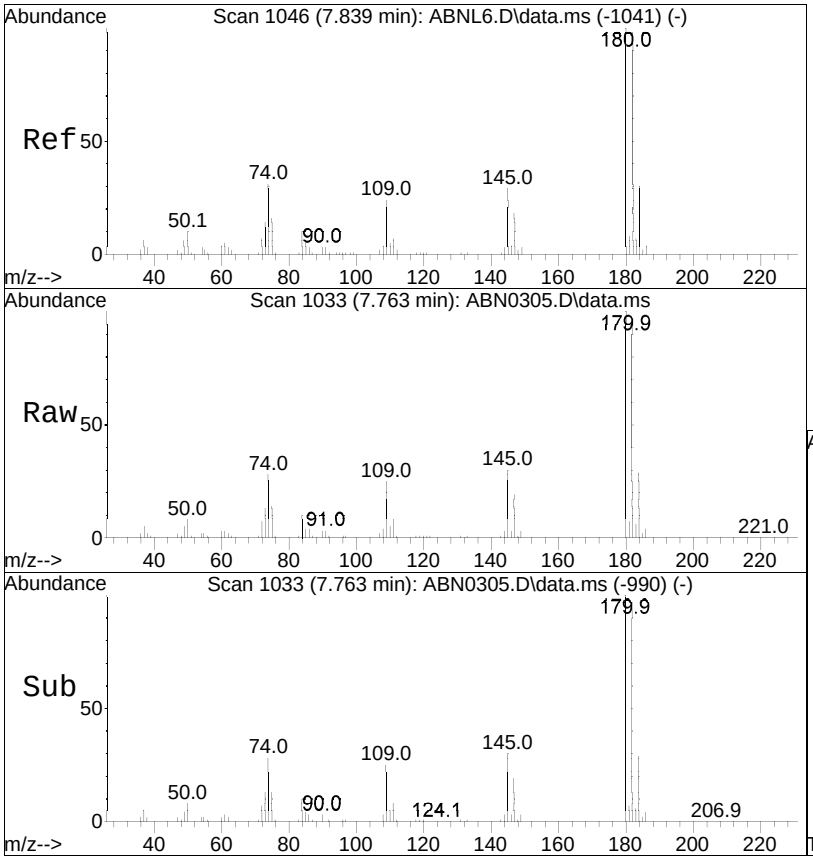


#25
2,4-Dichlorophenol
Concen: 4.63 ug/ml
RT: 7.681 min Scan# 1019
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:162 Resp: 114083

Ion	Ratio	Lower	Upper
162	100		
164	66.8	51.0	76.4
98	35.6	32.2	48.2

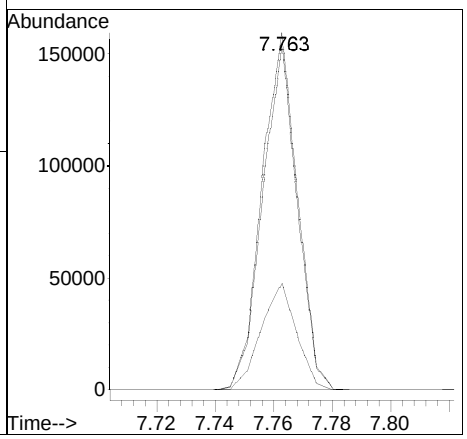


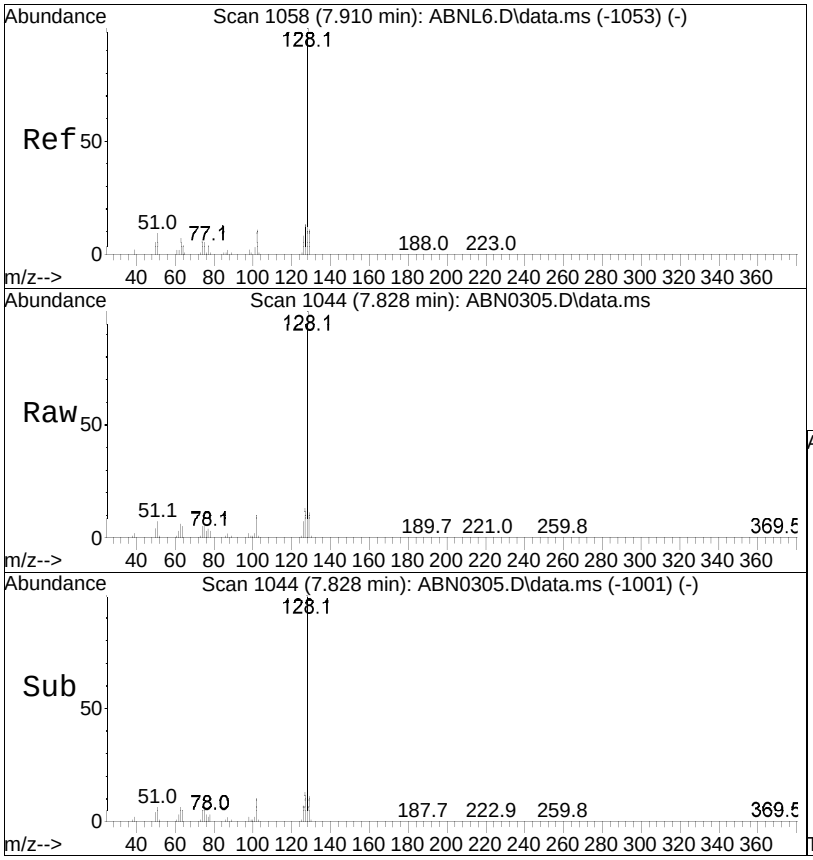


#26
1,2,4-Trichlorobenzene
Concen: 4.70 ug/ml
RT: 7.763 min Scan# 1033
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:180 Resp: 134052

Ion	Ratio	Lower	Upper
180	100		
182	94.1	76.0	114.0
145	30.0	25.7	38.5

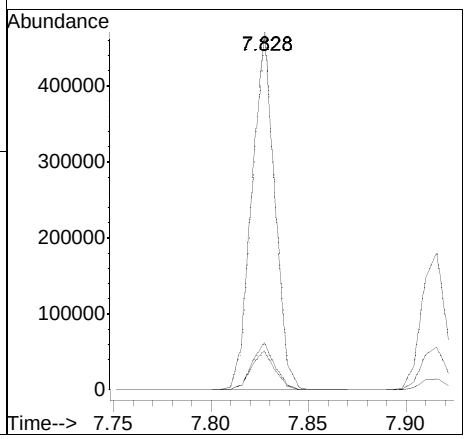


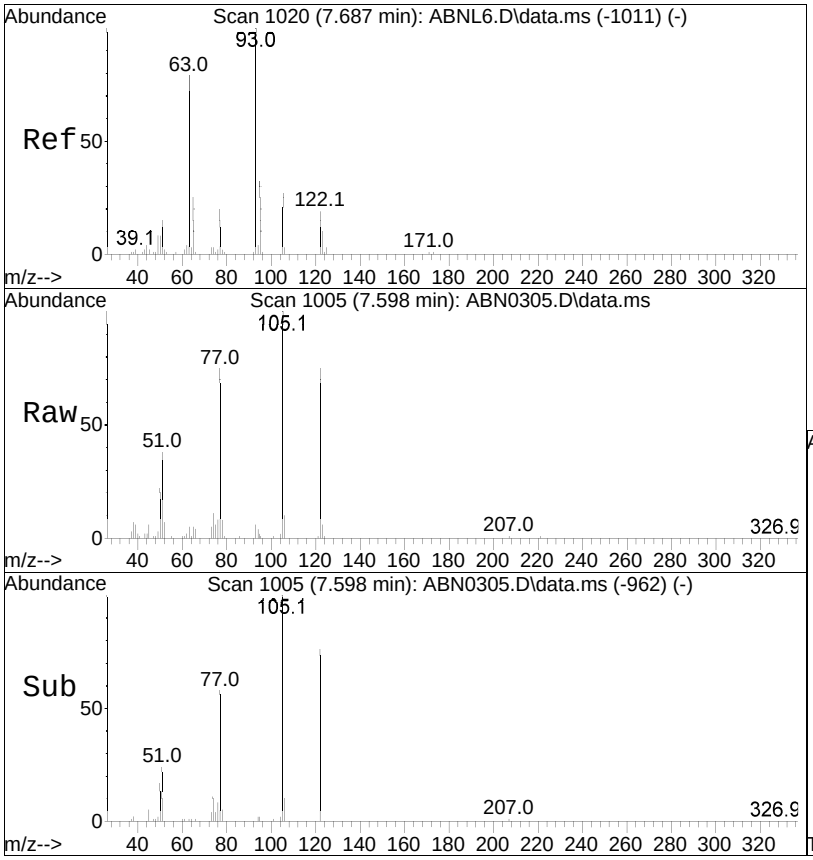


#36
Naphthalene
Concen: 4.55 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:128 Resp: 380341

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	13.2	10.3	15.5

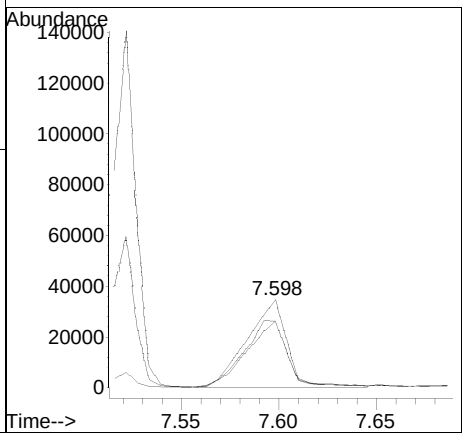


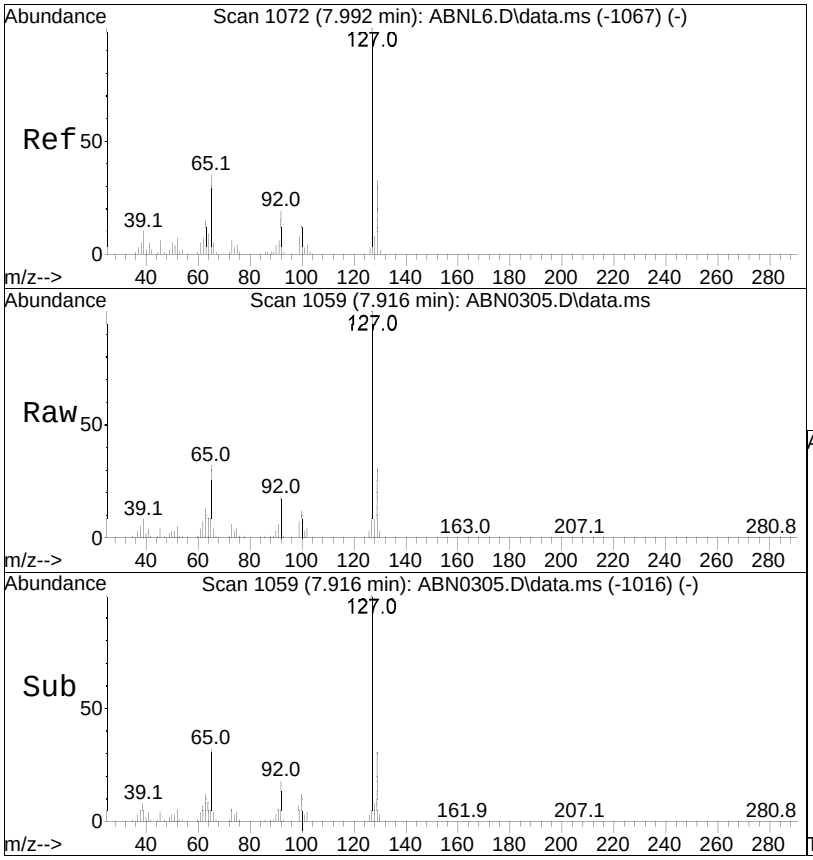


#37
Benzoic Acid
Concen: 3.60 ug/ml
RT: 7.598 min Scan# 1005
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:105 Resp: 50108

Ion	Ratio	Lower	Upper
105	100		
122	75.1	59.9	89.9
77	82.6	60.1	90.1

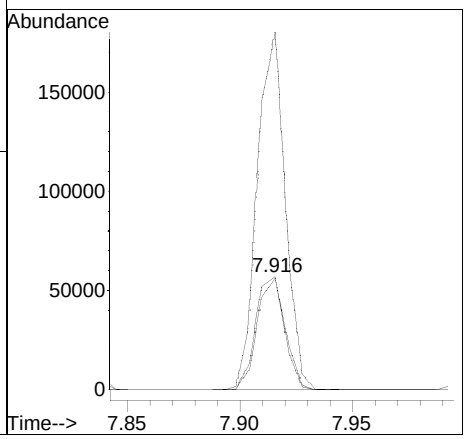


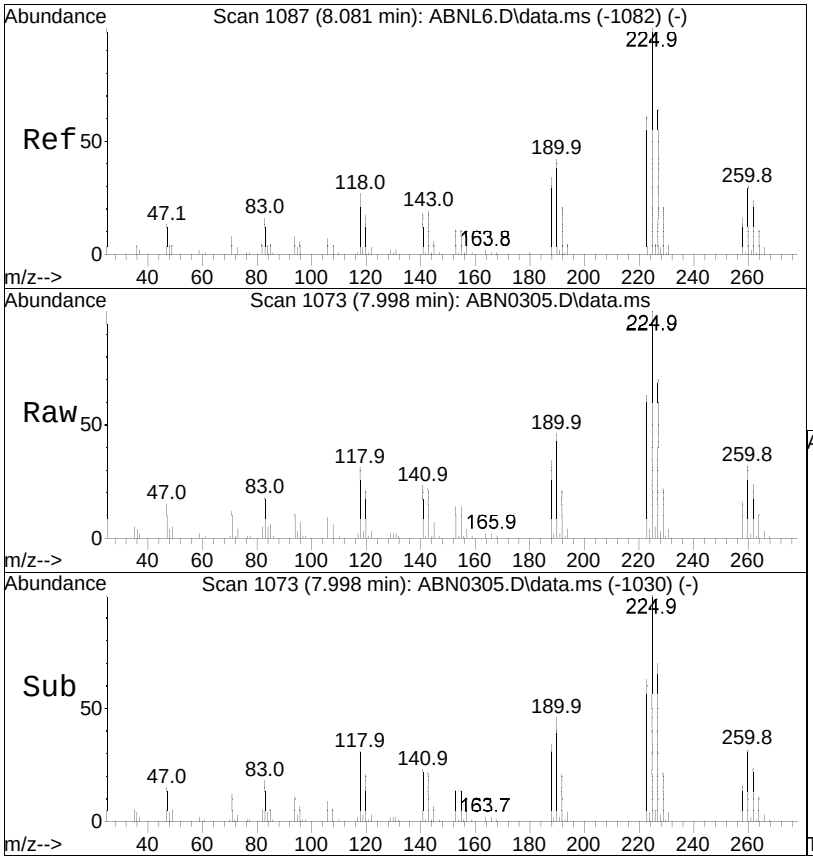


#38
4-Chloroaniline
Concen: 5.41 ug/ml
RT: 7.916 min Scan# 1059
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 65 Resp: 50768

Ion	Ratio	Lower	Upper
65	100		
127	304.3	237.6	356.4
129	96.3	76.3	114.5

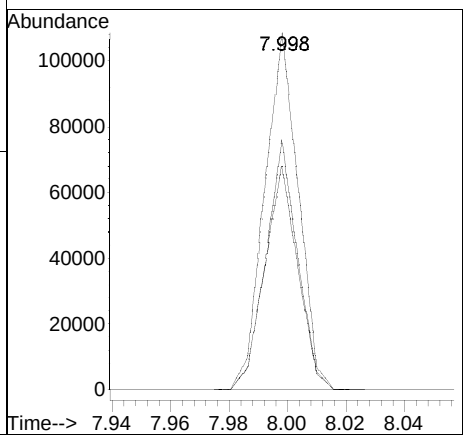


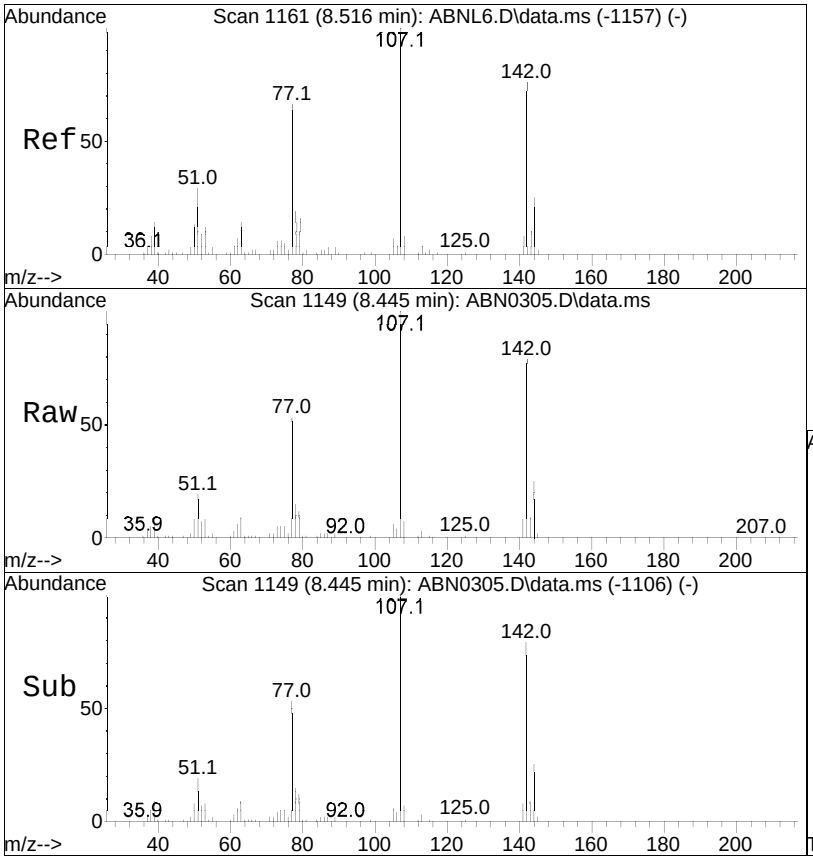


#39
Hexachlorobutadiene
Concen: 4.89 ug/ml
RT: 7.998 min Scan# 1073
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:225 Resp: 86456

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.3	75.5
227	66.2	52.2	78.2

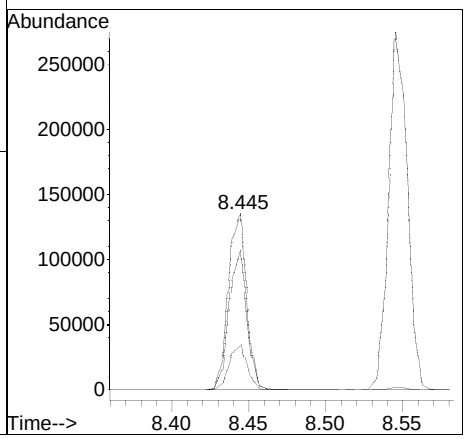


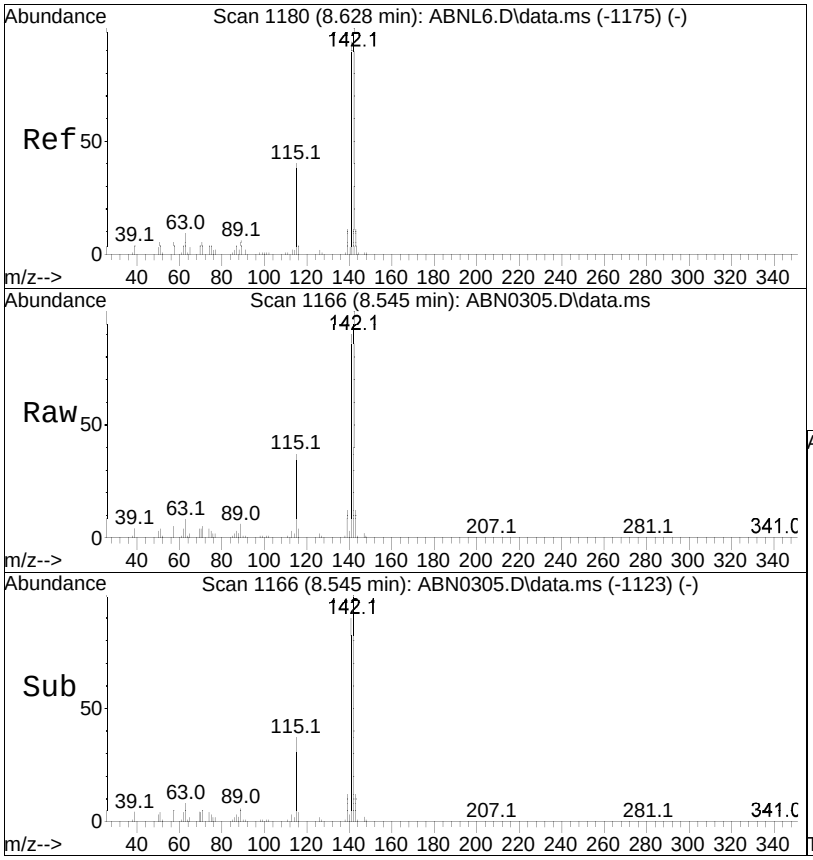


#40
p-Chloro-m-cresol
Concen: 5.12 ug/ml
RT: 8.445 min Scan# 1149
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:107 Resp: 112351

Ion	Ratio	Lower	Upper
107	100		
144	24.8	20.9	31.3
142	76.8	66.1	99.1

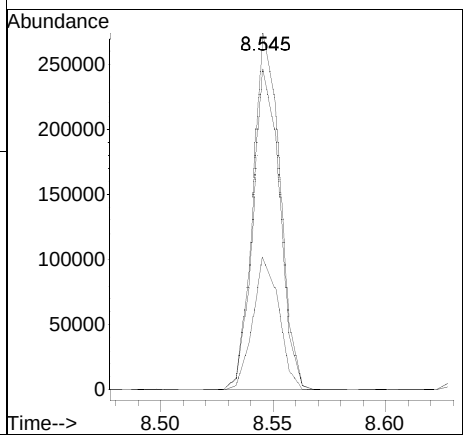


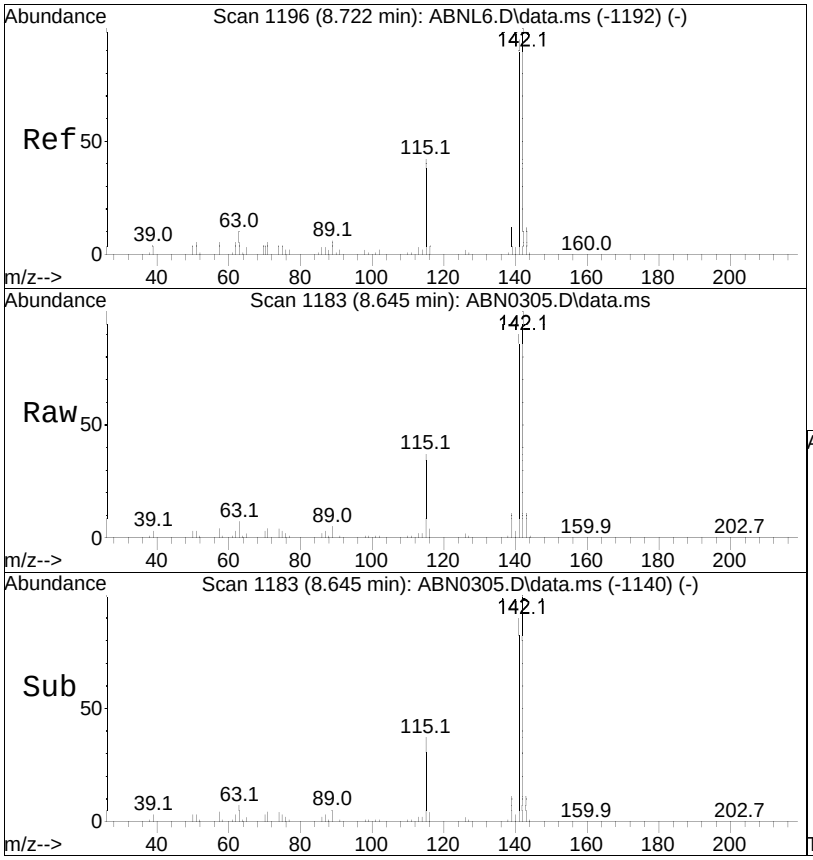


#41
2-Methylnaphthalene
Concen: 4.12 ug/ml
RT: 8.545 min Scan# 1166
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:142 Resp: 229624

Ion	Ratio	Lower	Upper
142	100		
141	89.1	69.6	104.4
115	36.1	26.6	40.0

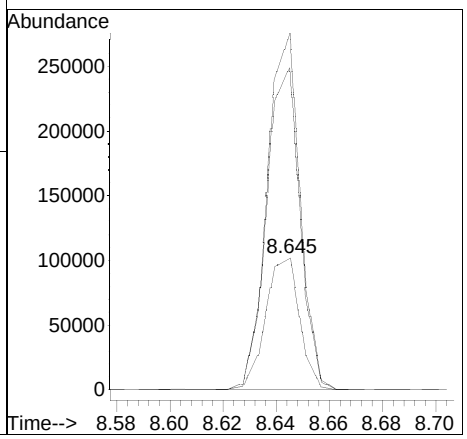


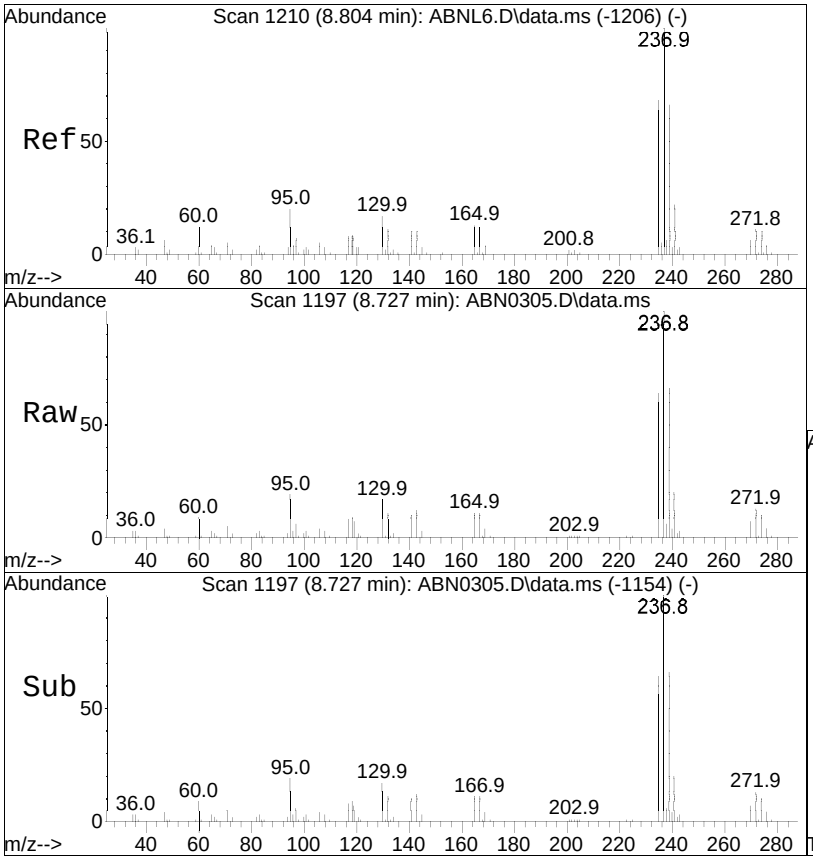


#42
1-Methylnaphthalene
Concen: 5.05 ug/ml
RT: 8.645 min Scan# 1183
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:115 Resp: 91102

Ion	Ratio	Lower	Upper
115	100		
141	239.0	207.8	311.6
142	260.6	226.8	340.2

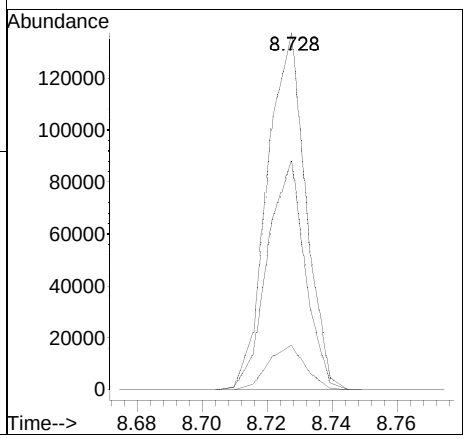


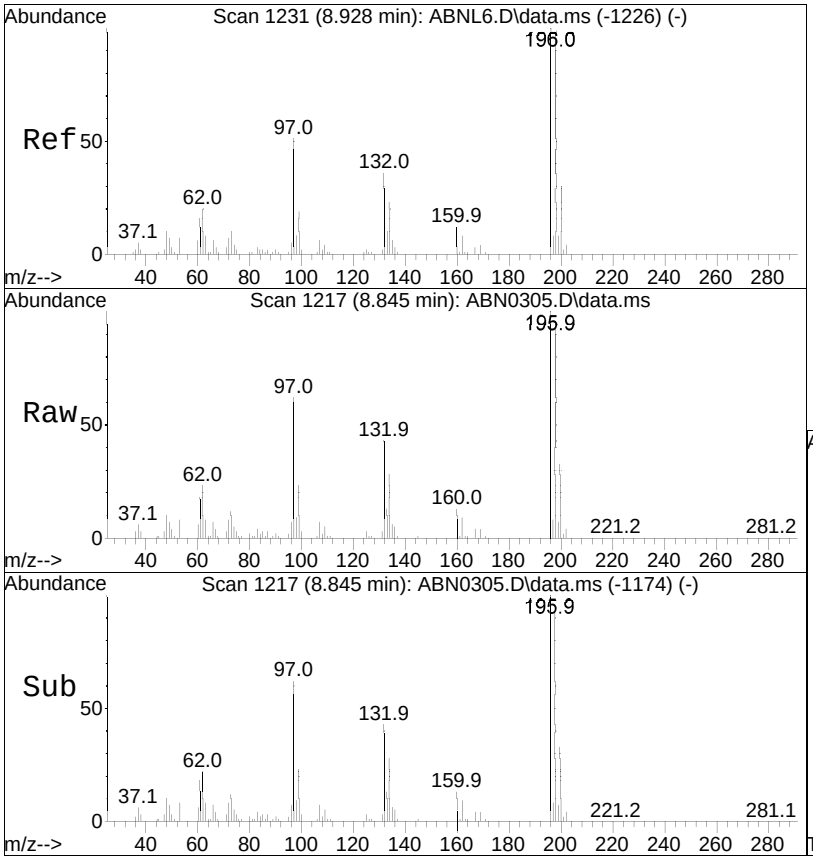


#43
Hexachlorocyclopentadiene
Concen: 5.83 ug/ml
RT: 8.727 min Scan# 1197
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:237 Resp: 113149

Ion	Ratio	Lower	Upper
237	100		
235	62.9	49.7	74.5
272	12.2	9.8	14.6

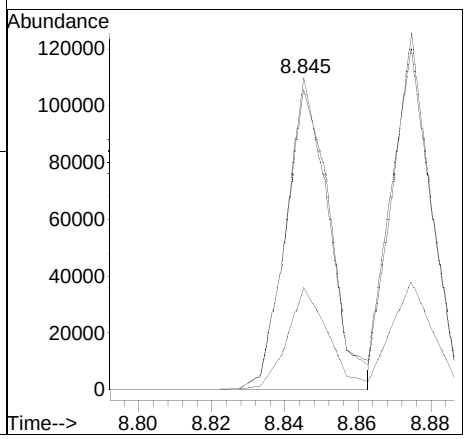


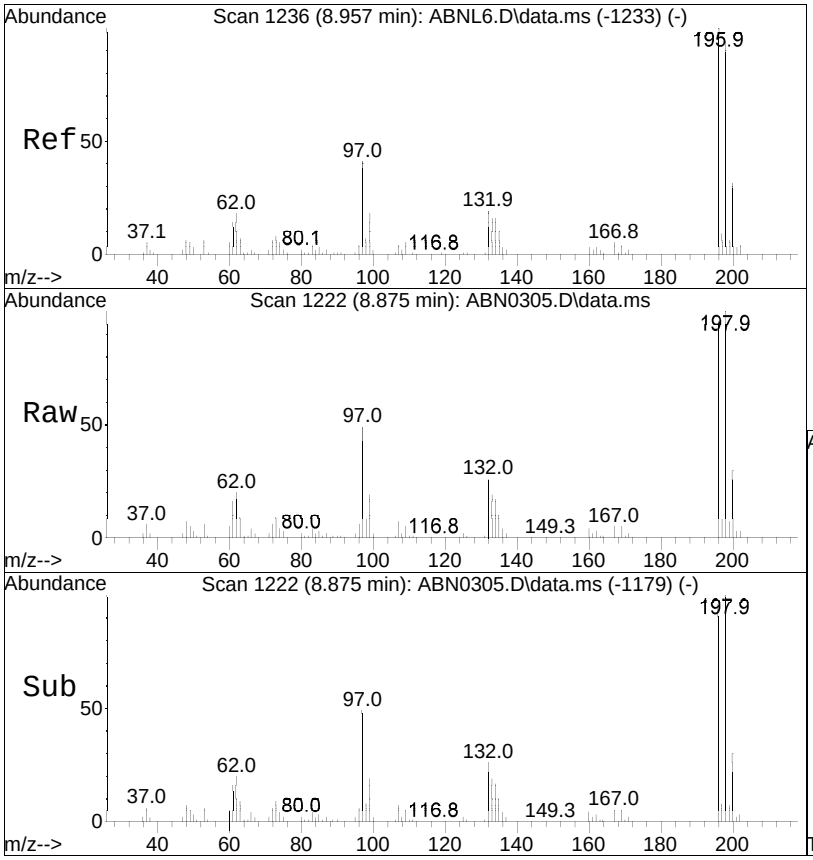


#44
2,4,6-Trichlorophenol
Concen: 4.44 ug/ml
RT: 8.845 min Scan# 1217
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:196 Resp: 90433

Ion	Ratio	Lower	Upper
196	100		
198	99.8	77.5	116.3
200	31.2	23.8	35.6

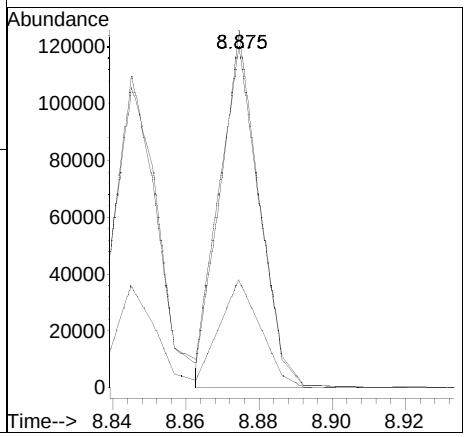


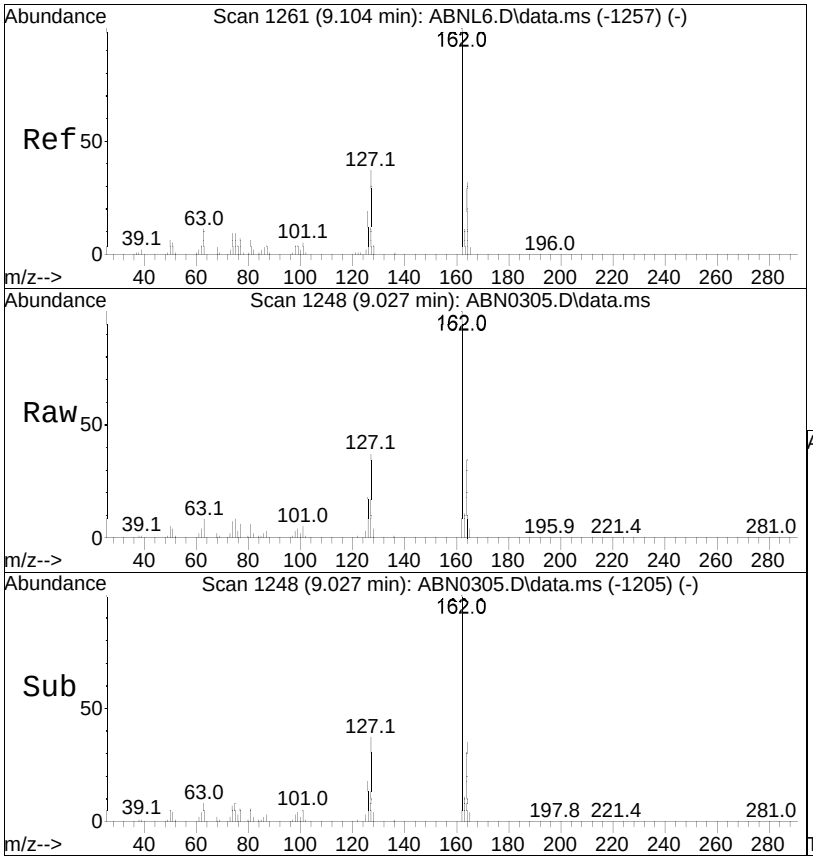


#45
2,4,5-Trichlorophenol
Concen: 4.32 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:196 Resp: 91206

Ion	Ratio	Lower	Upper
196	100		
200	32.7	25.4	38.0
198	101.5	78.0	117.0

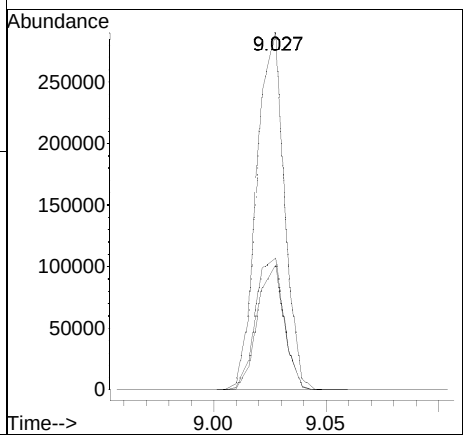


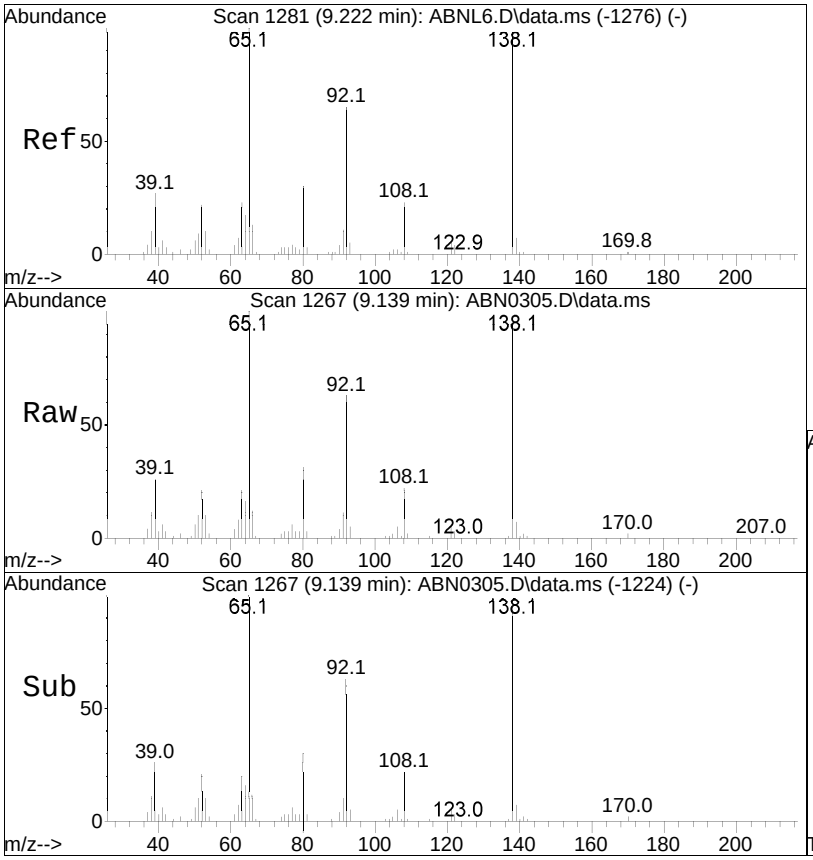


#47
2-Chloronaphthalene
Concen: 4.24 ug/ml
RT: 9.027 min Scan# 1248
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:162 Resp: 246689

Ion	Ratio	Lower	Upper
162	100		
127	38.3	32.2	48.4
164	34.1	25.7	38.5

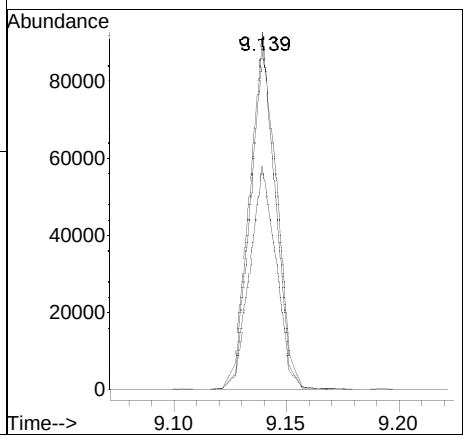


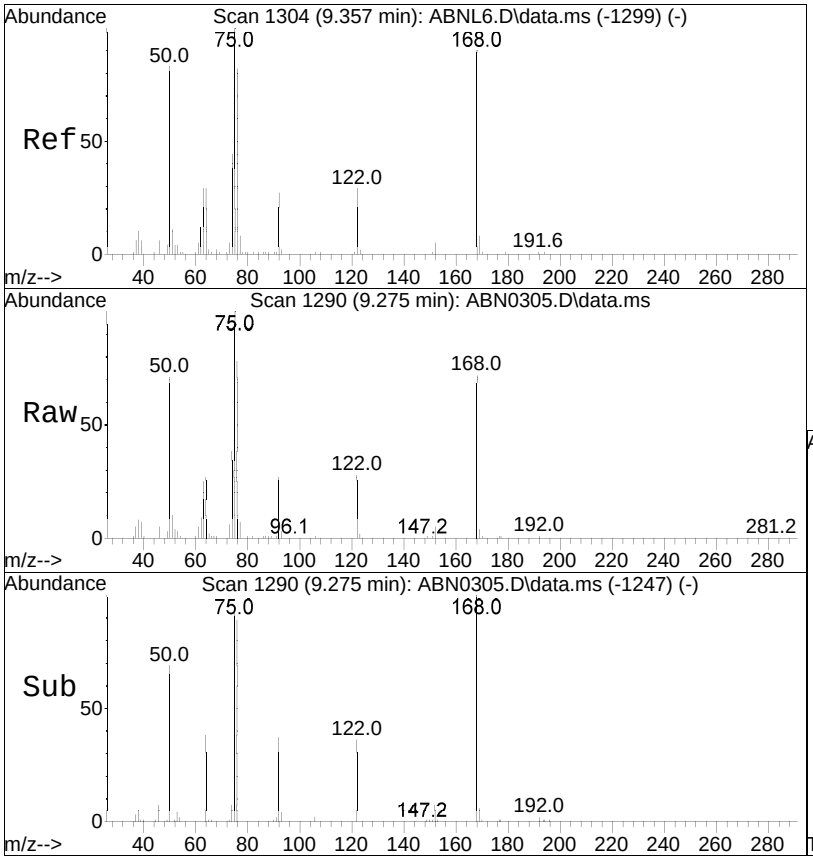


#48
2-Nitroaniline
Concen: 4.34 ug/ml
RT: 9.139 min Scan# 1267
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:138 Resp: 71841

Ion	Ratio	Lower	Upper
138	100		
92	64.8	53.5	80.3
65	100.7	86.3	129.5

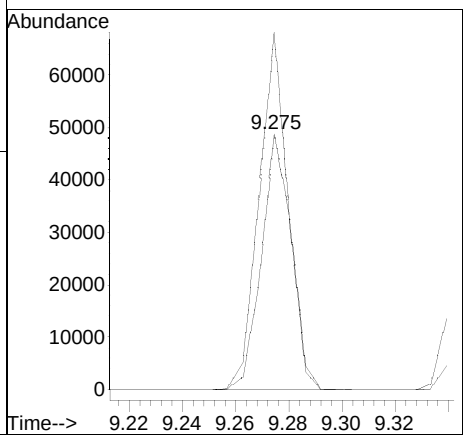


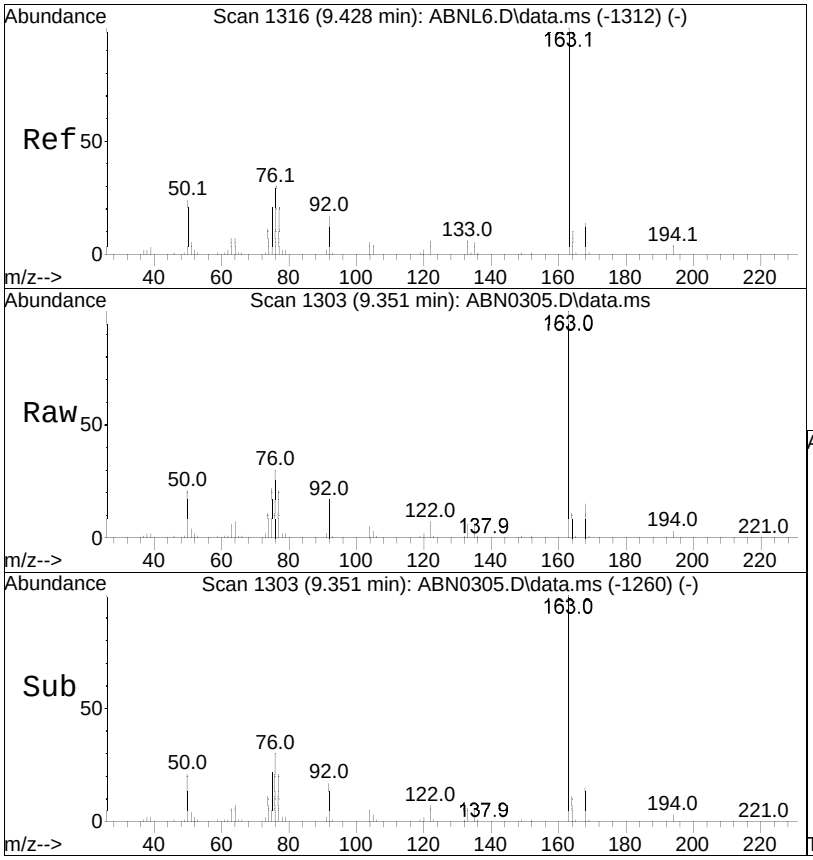


#49
1,4-Dinitrobenzene
Concen: 4.54 ug/ml
RT: 9.275 min Scan# 1290
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:168 Resp: 38352

Ion	Ratio	Lower	Upper
168	100		
75	132.8	121.8	182.8

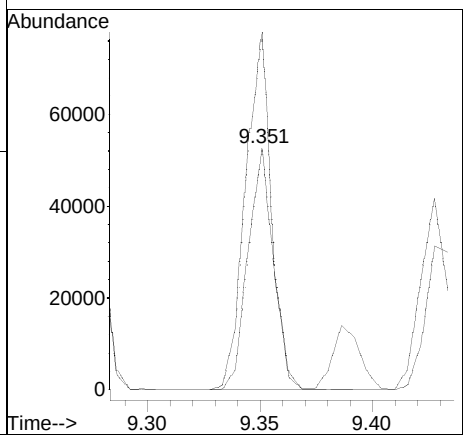


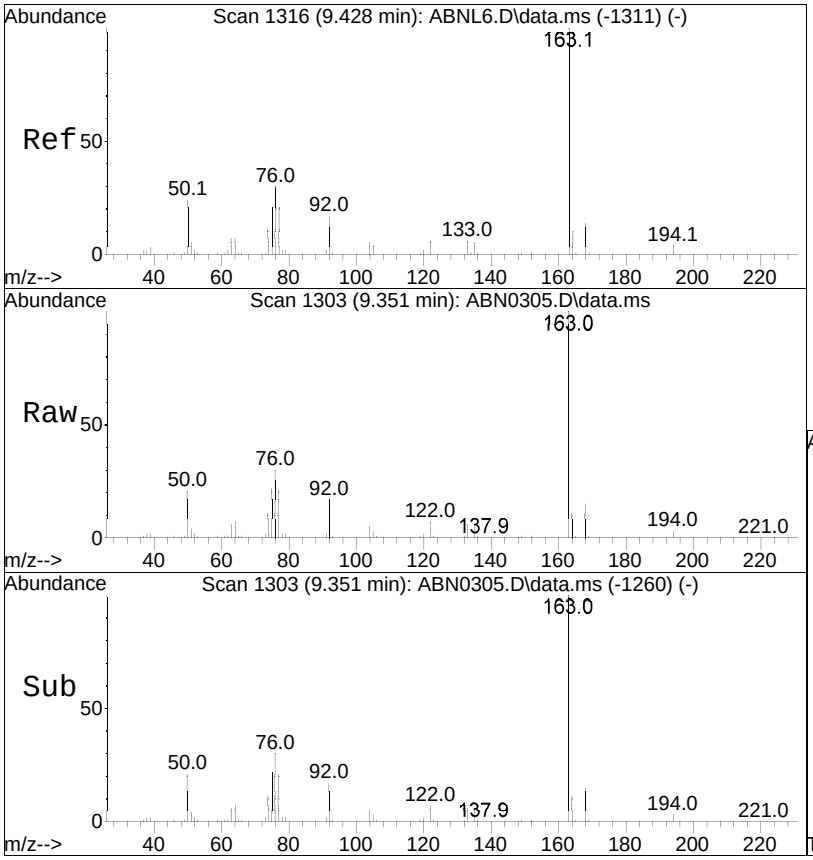


#50
1,3-Dinitrobenzene
Concen: 4.50 ug/ml
RT: 9.351 min Scan# 1303
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:168 Resp: 41650

Ion	Ratio	Lower	Upper
168	100		
75	147.9	22.7	34.1#

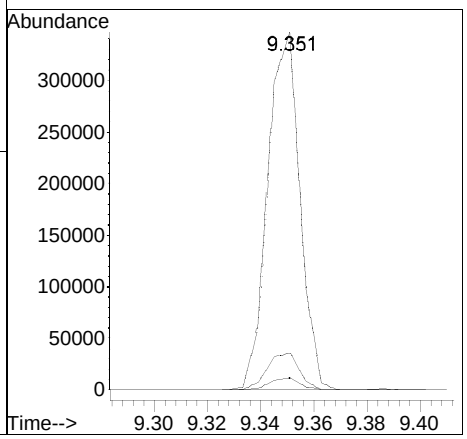


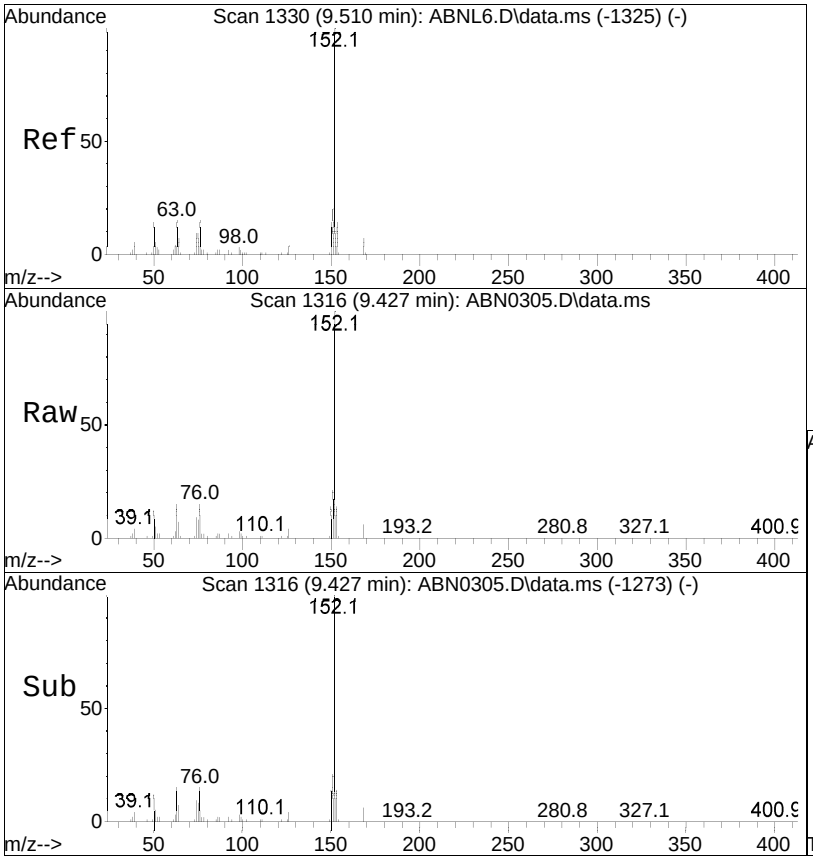


#51
Dimethyl phthalate
Concen: 4.26 ug/ml
RT: 9.351 min Scan# 1303
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:163 Resp: 288753

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.5	7.9	11.9

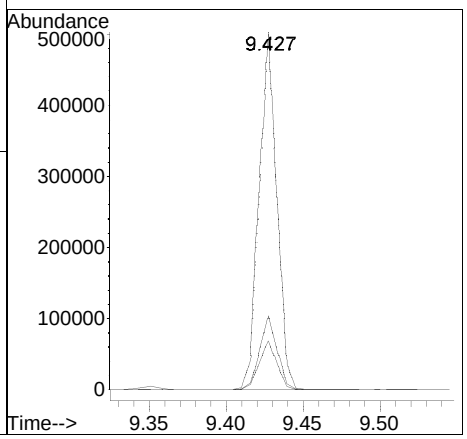


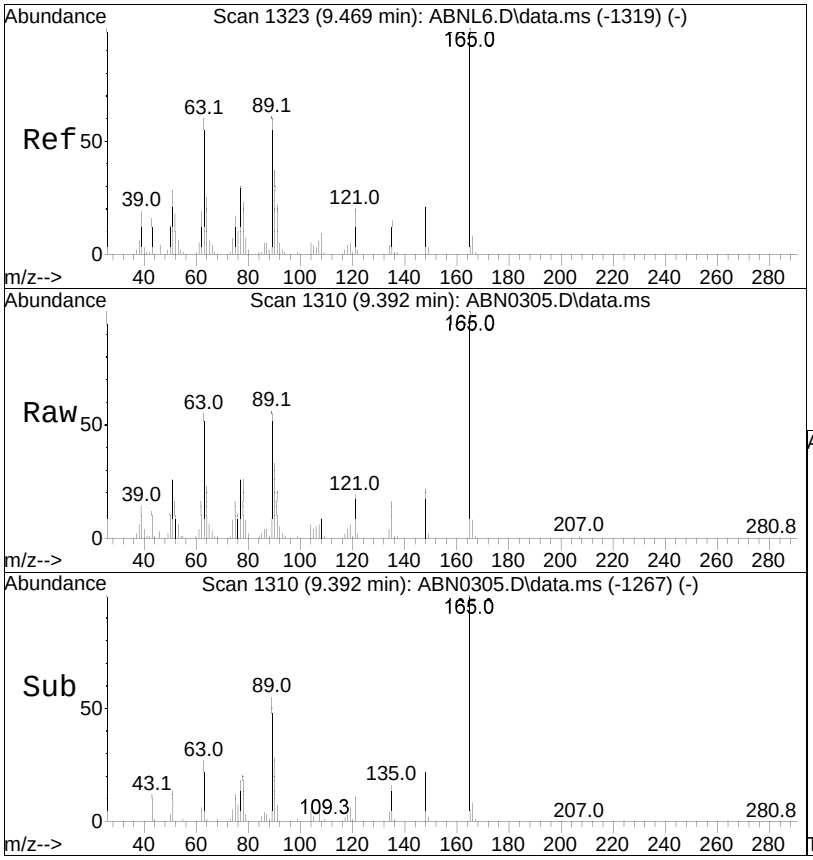


#52
Acenaphthylene
Concen: 4.55 ug/ml
RT: 9.427 min Scan# 1316
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:152 Resp: 393826

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.8	23.6
153	13.9	10.5	15.7

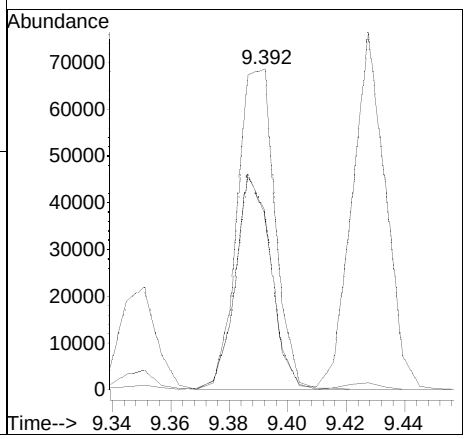


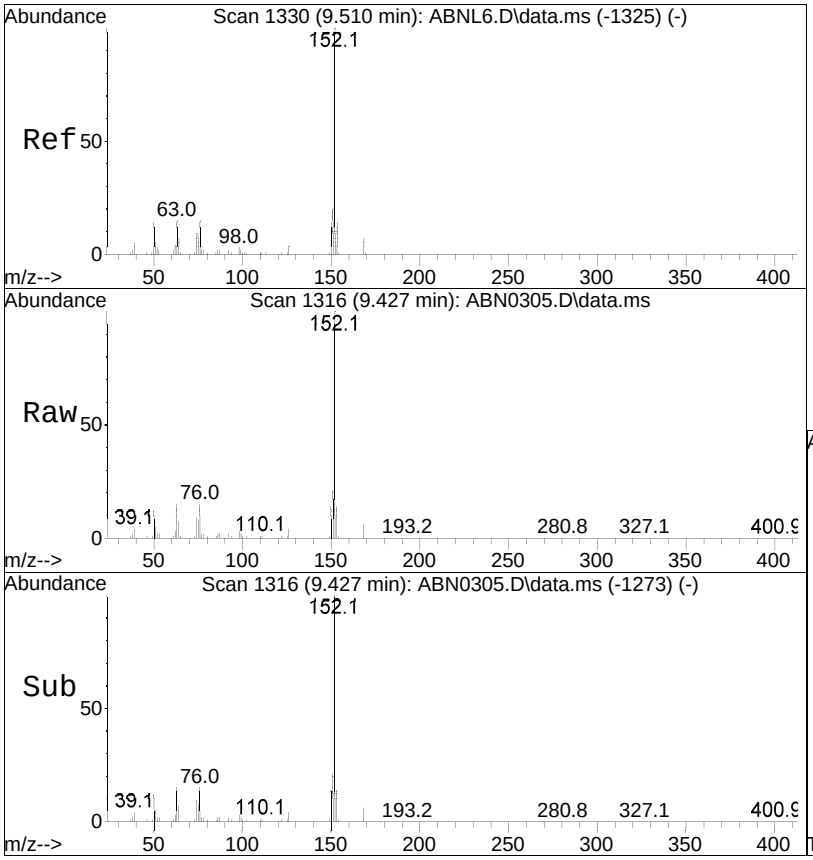


#53
2,6-Dinitrotoluene
Concen: 4.48 ug/ml
RT: 9.392 min Scan# 1310
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:165 Resp: 61725

Ion	Ratio	Lower	Upper
165	100		
89	62.5	54.2	81.2
63	62.8	64.2	96.2#

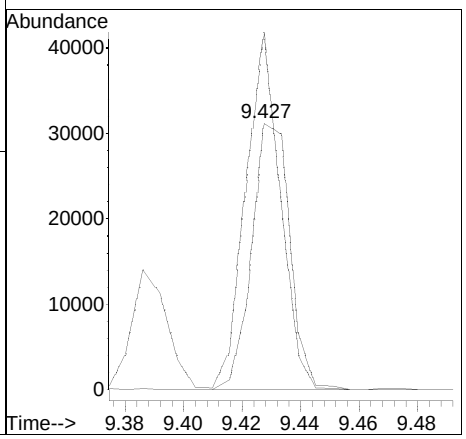


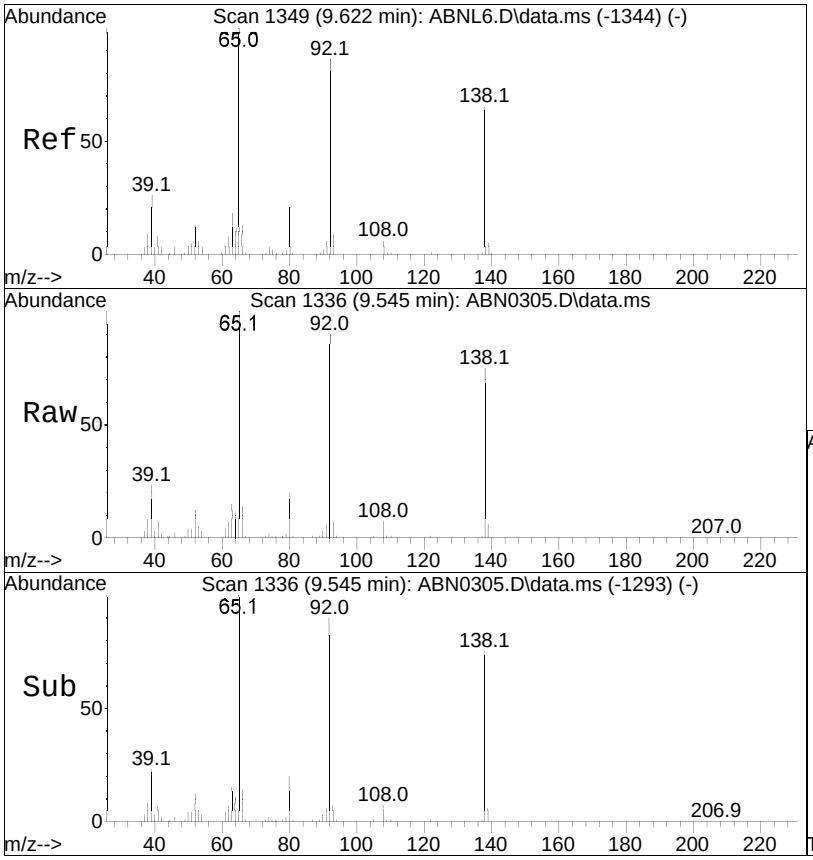


#54
1,2-Dinitrobenzene
Concen: 4.69 ug/ml
RT: 9.427 min Scan# 1316
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:168 Resp: 28008

Ion	Ratio	Lower	Upper
168	100		
75	122.0	30.9	46.3#

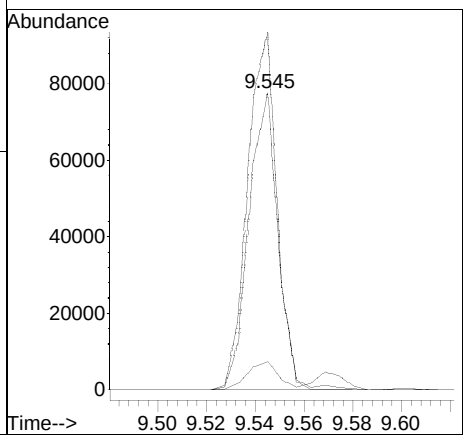


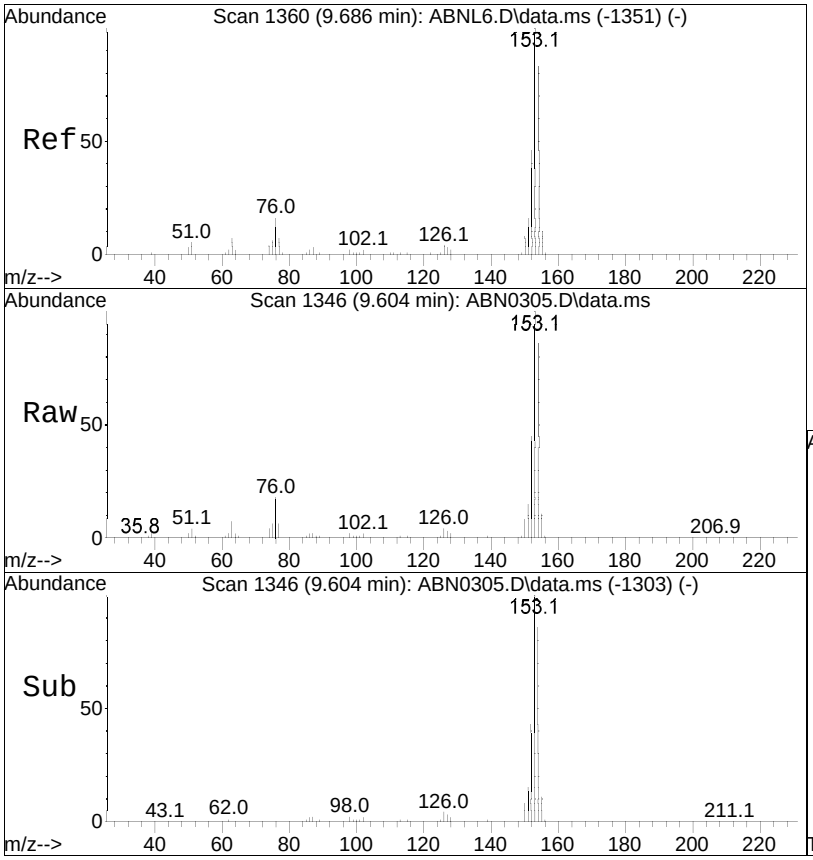


#64
3-Nitroaniline
Concen: 4.52 ug/ml
RT: 9.545 min Scan# 1336
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:138 Resp: 62979

Ion	Ratio	Lower	Upper
138	100		
92	123.7	93.4	140.2
108	10.5	9.5	14.3

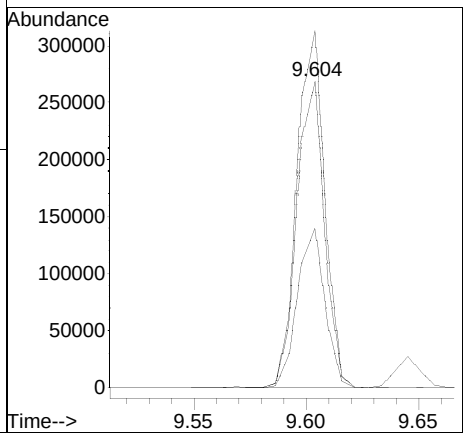


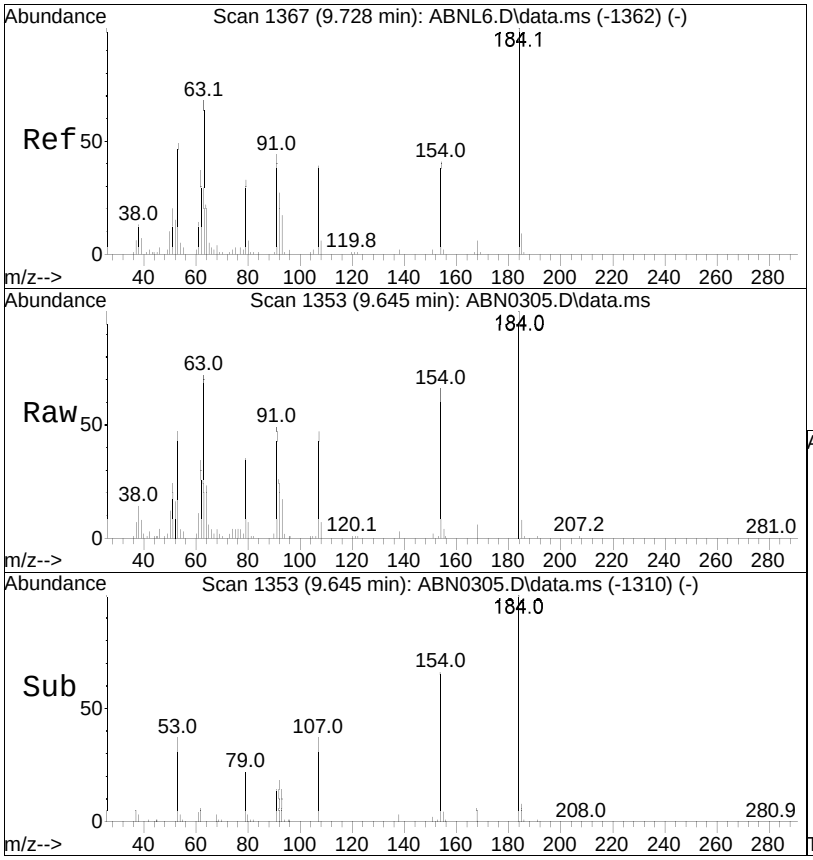


#65
Acenaphthene
Concen: 4.58 ug/ml
RT: 9.604 min Scan# 1346
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:154 Resp: 228545

Ion	Ratio	Lower	Upper
154	100		
153	117.2	85.3	127.9
152	52.4	41.4	62.0

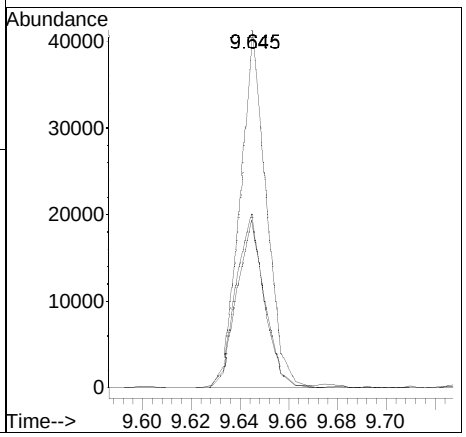


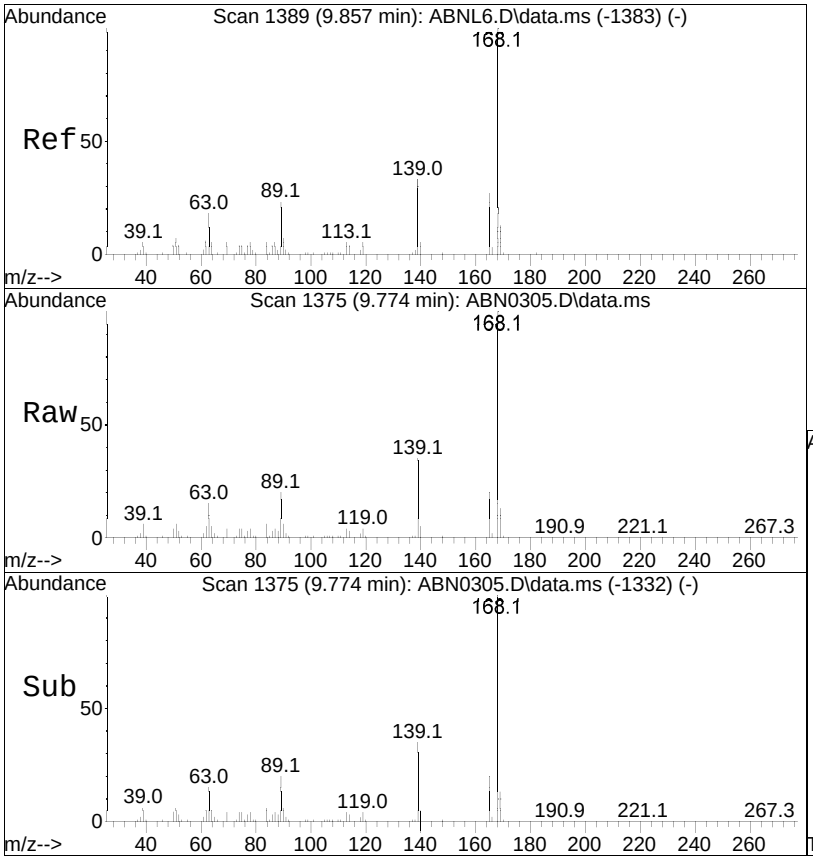


#66
2,4-Dinitrophenol
Concen: 4.02 ug/ml
RT: 9.645 min Scan# 1353
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:184 Resp: 31101

Ion	Ratio	Lower	Upper
184	100		
107	49.8	37.7	56.5
91	52.0	46.3	69.5

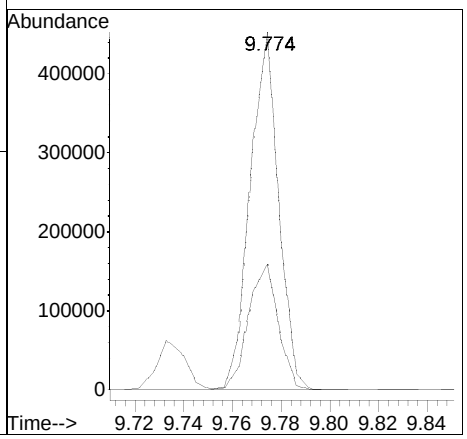


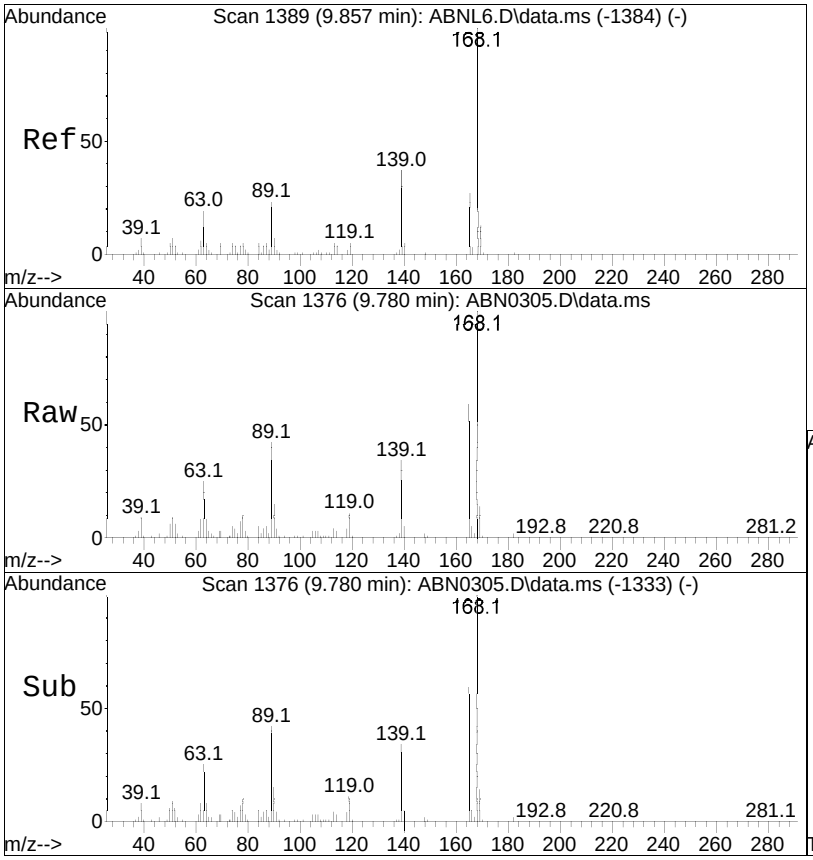


#67
Dibenzofuran
Concen: 4.50 ug/ml
RT: 9.774 min Scan# 1375
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:168 Resp: 363554

Ion	Ratio	Lower	Upper
168	100		
139	37.1	31.4	47.2

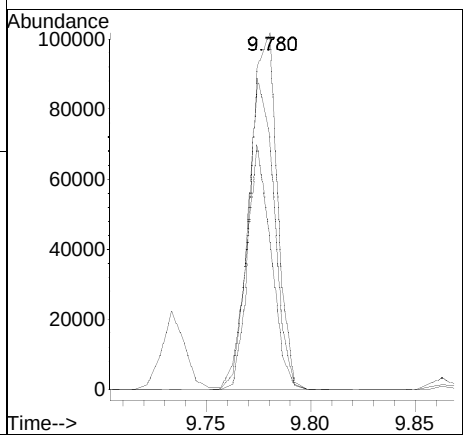


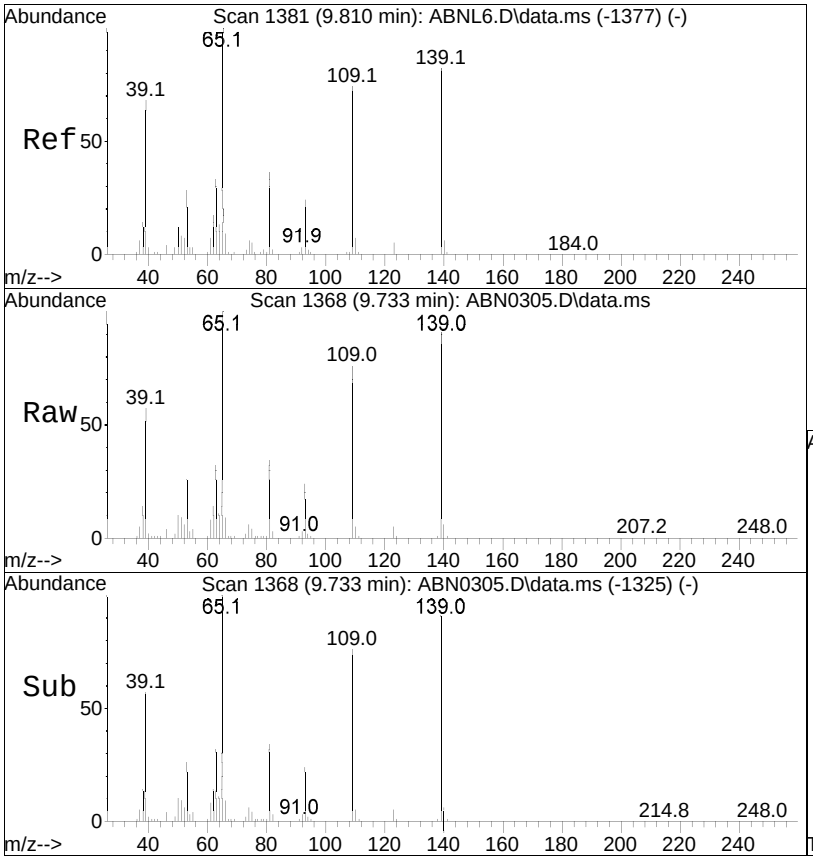


#68
2,4-Dinitrotoluene
Concen: 4.91 ug/ml
RT: 9.780 min Scan# 1376
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:165 Resp: 88776

Ion	Ratio	Lower	Upper
165	100		
89	86.9	72.0	108.0
63	66.0	52.7	79.1

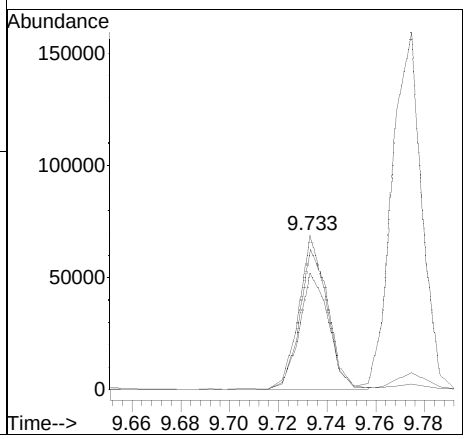


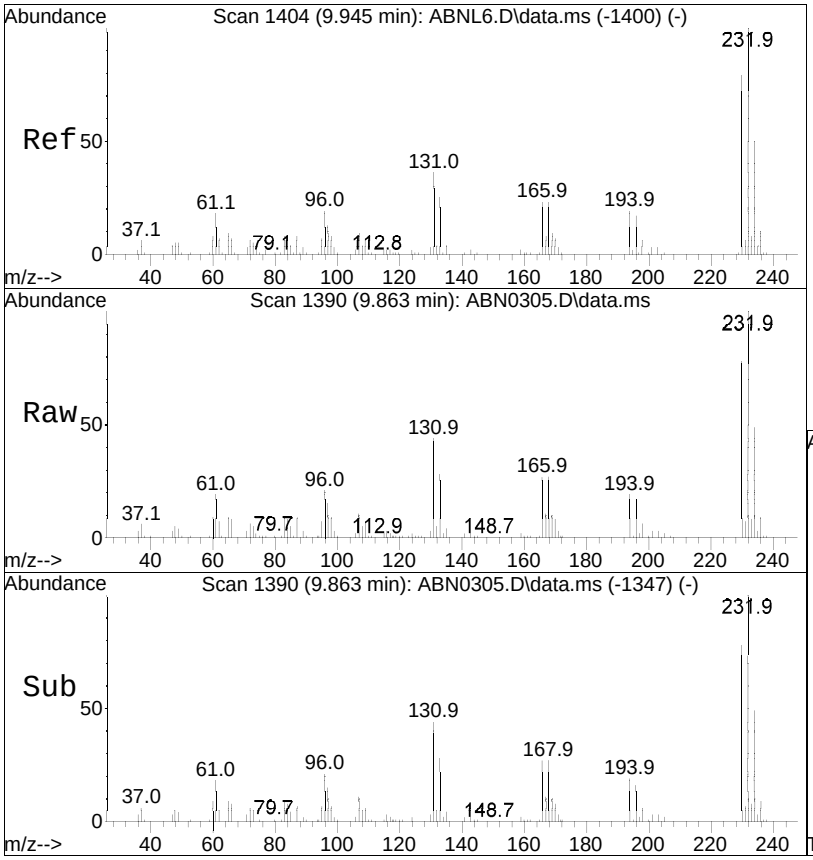


#69
4-Nitrophenol
Concen: 5.29 ug/ml
RT: 9.733 min Scan# 1368
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 65 Resp: 54547

Ion	Ratio	Lower	Upper
65	100		
109	80.4	47.4	71.2#
139	94.4	76.6	115.0

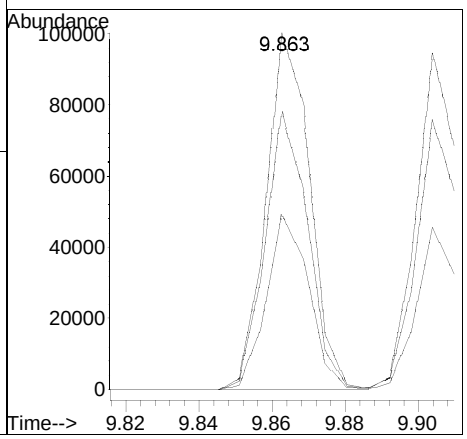


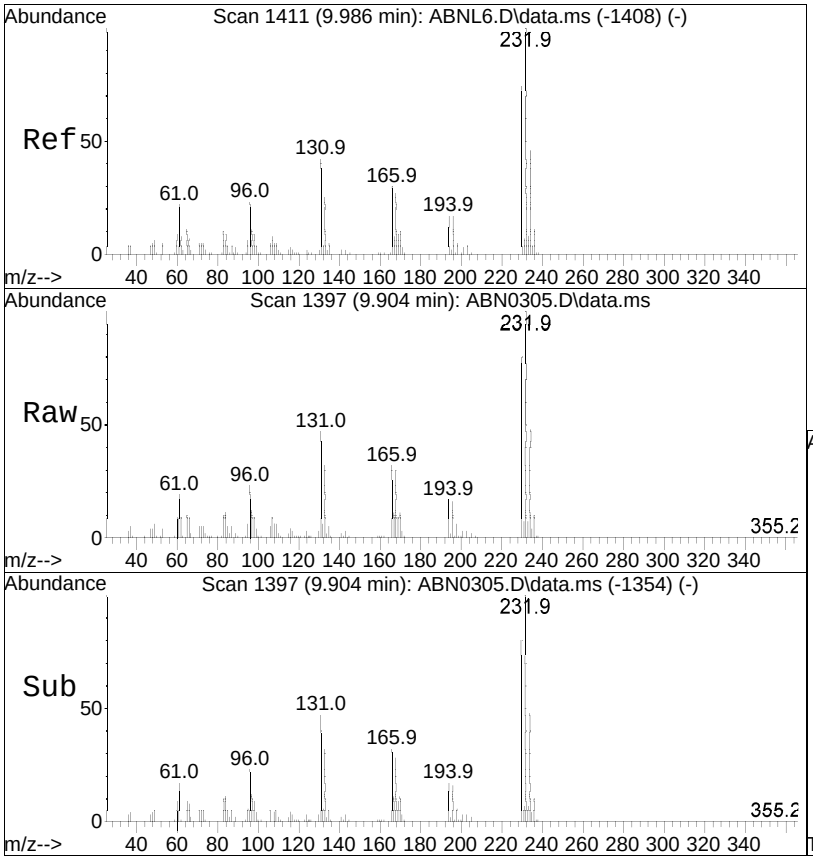


#70
2,3,5,6-Tetrachlorophenol
Concen: 4.95 ug/ml
RT: 9.863 min Scan# 1390
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:232 Resp: 83445

Ion	Ratio	Lower	Upper
232	100		
230	76.5	64.2	96.4
234	47.7	38.1	57.1

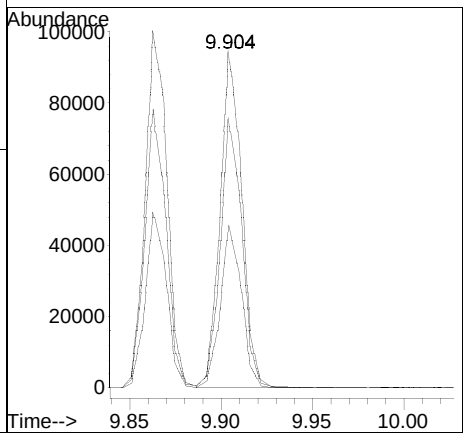


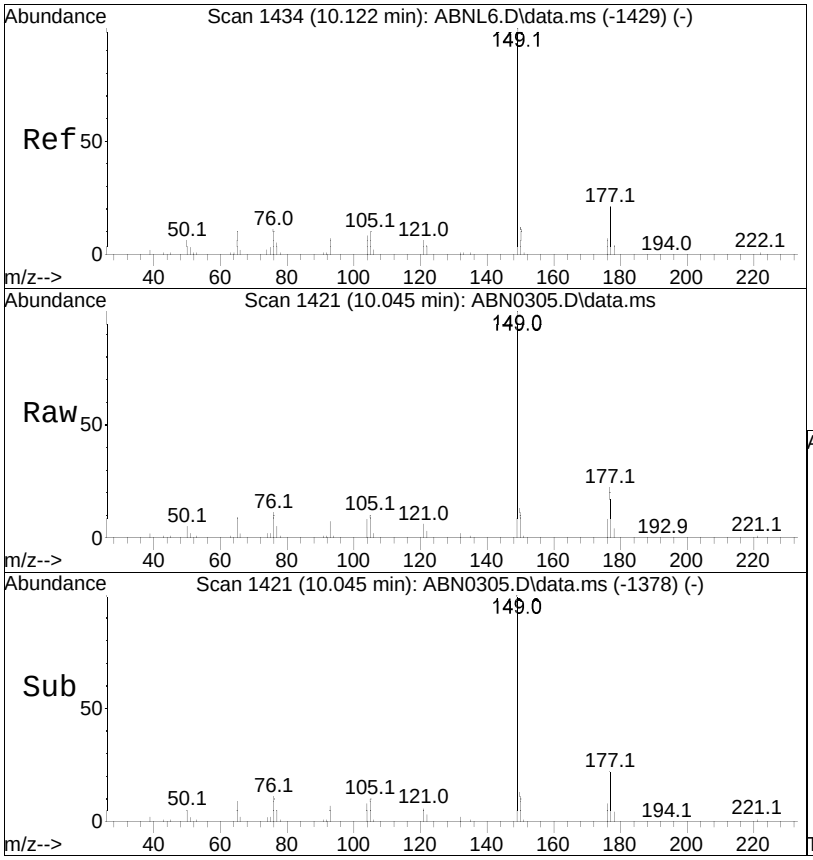


#71
2,3,4,6-Tetrachlorophenol
Concen: 4.73 ug/ml
RT: 9.904 min Scan# 1397
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:232 Resp: 78732

Ion	Ratio	Lower	Upper
232	100		
230	79.7	61.8	92.8
234	46.9	36.2	54.2

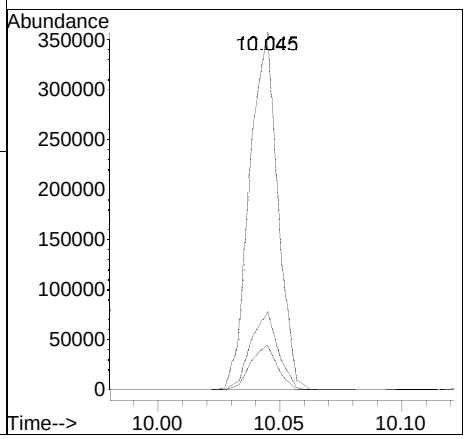


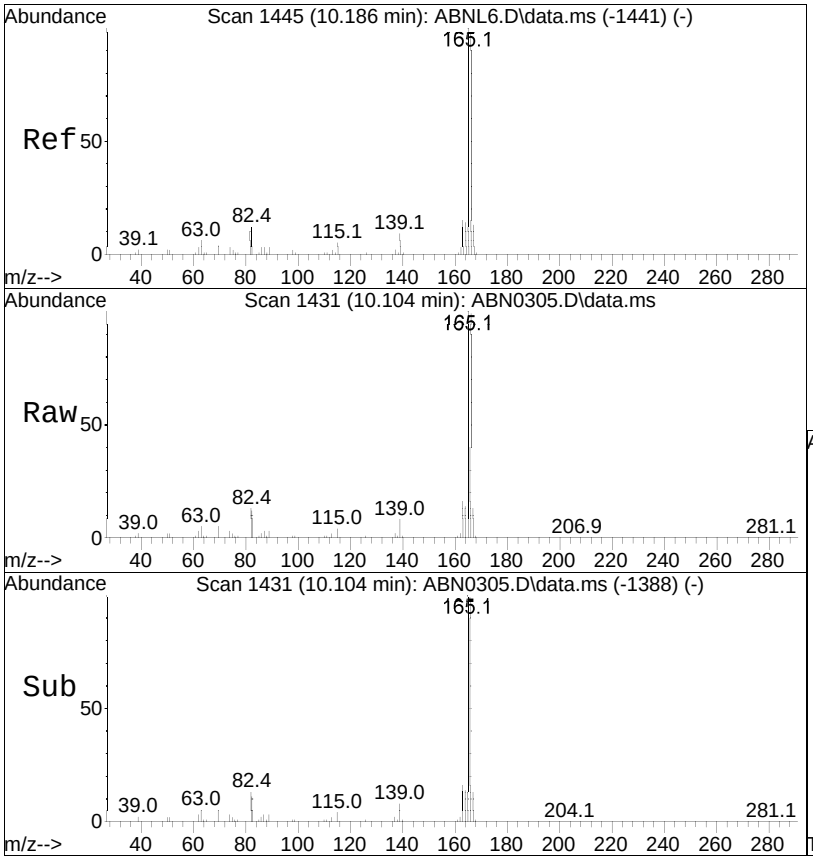


#72
Diethyl phthalate
Concen: 4.35 ug/ml
RT: 10.045 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:149 Resp: 284685

Ion	Ratio	Lower	Upper
149	100		
177	21.3	16.1	24.1
150	12.1	9.4	14.2

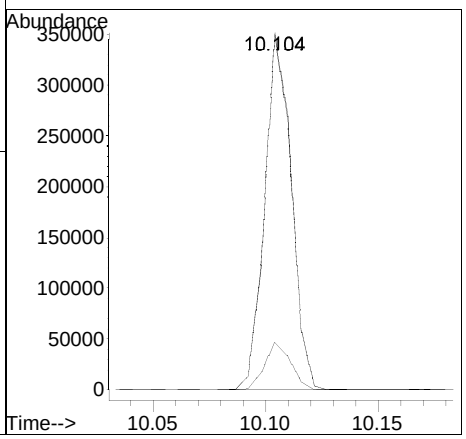


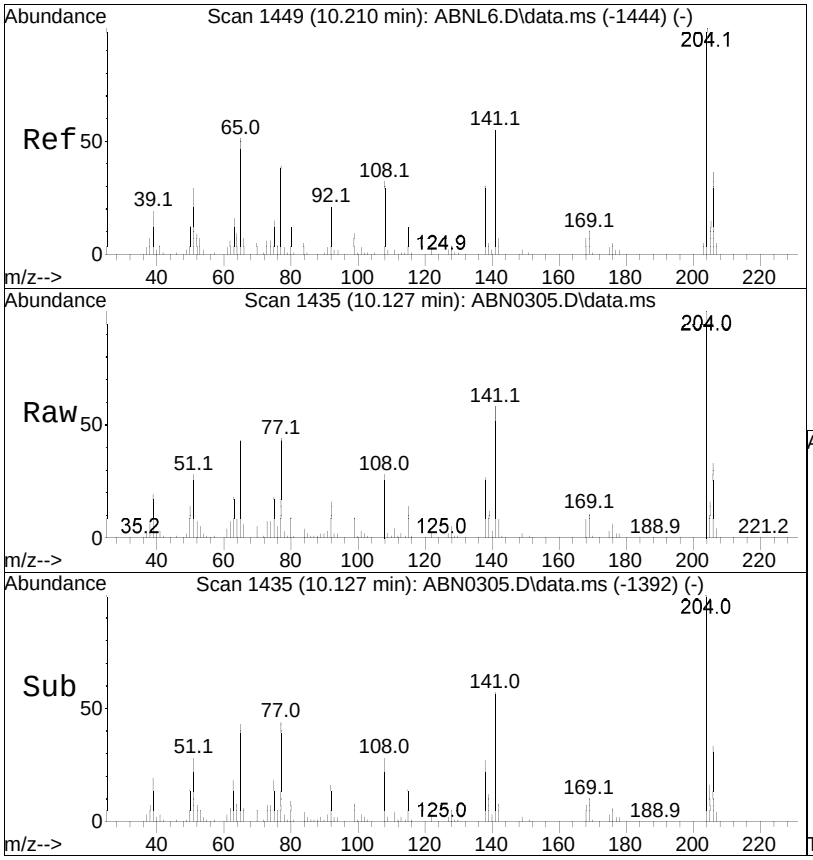


#73
Fluorene
Concen: 4.57 ug/ml
RT: 10.104 min Scan# 1431
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:166 Resp: 288354

Ion	Ratio	Lower	Upper
166	100		
165	100.6	76.2	114.2
167	13.4	10.6	15.8

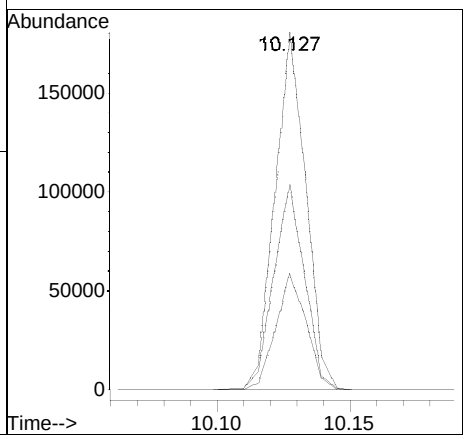


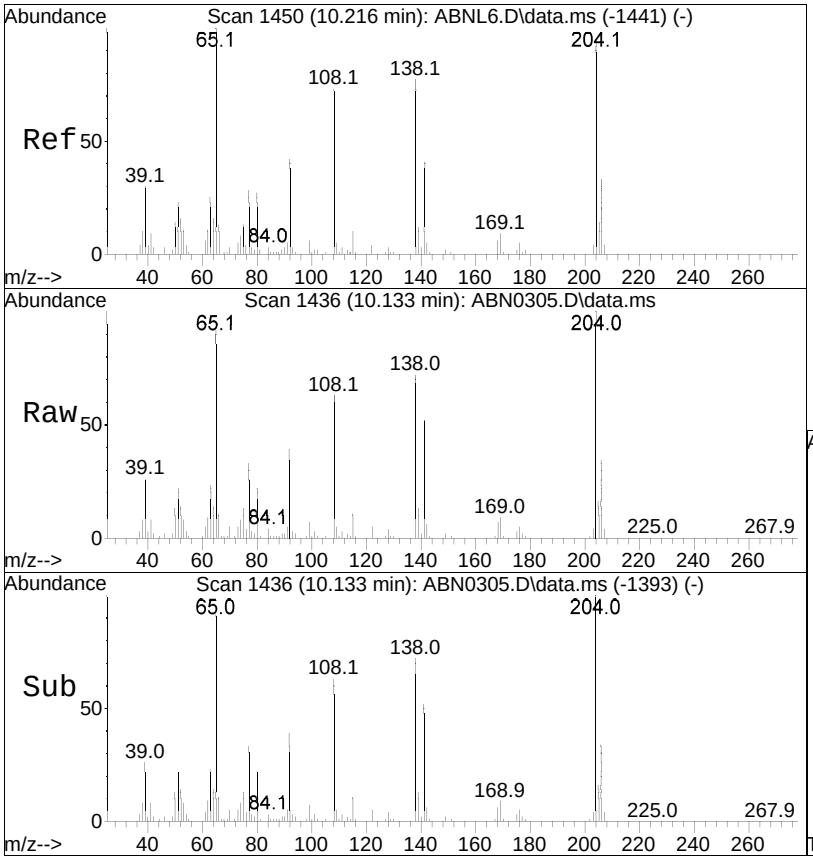


#74
4-Chlorophenyl phenyl ether
Concen: 4.45 ug/ml
RT: 10.127 min Scan# 1435
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:204 Resp: 144021

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.6
141	57.6	53.6	80.4

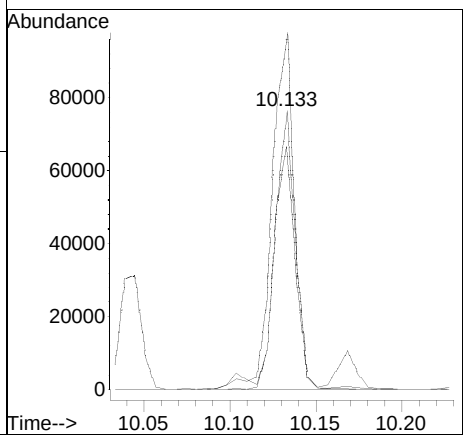


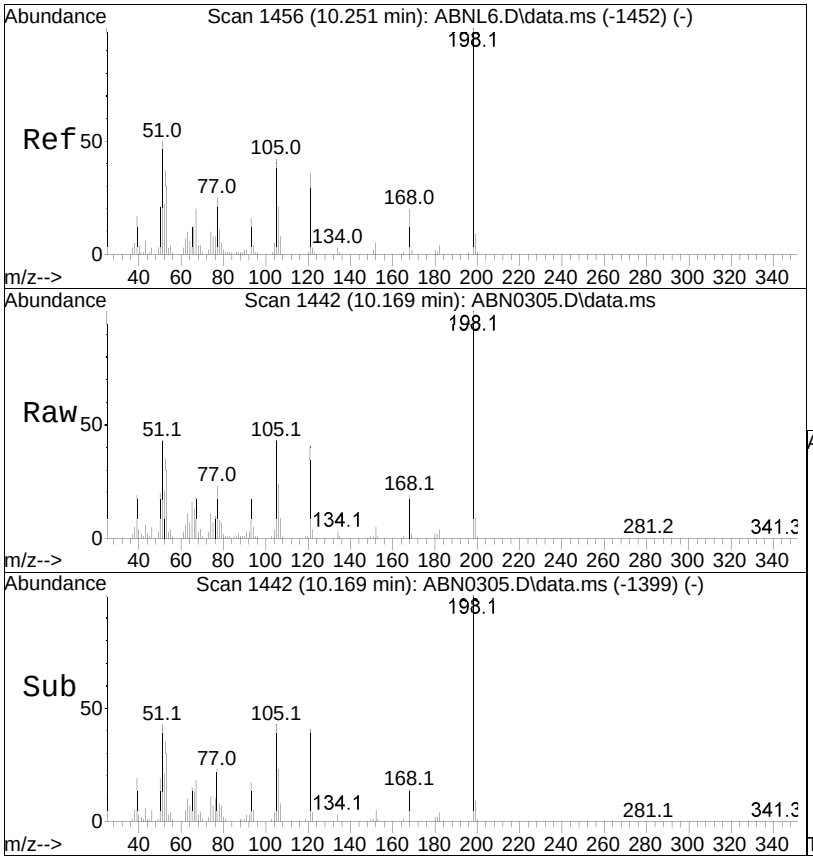


#75
4-Nitroaniline
Concen: 4.56 ug/ml
RT: 10.133 min Scan# 1436
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:138 Resp: 64721

Ion	Ratio	Lower	Upper
138	100		
108	86.9	52.1	78.1#
65	135.0	115.0	172.6

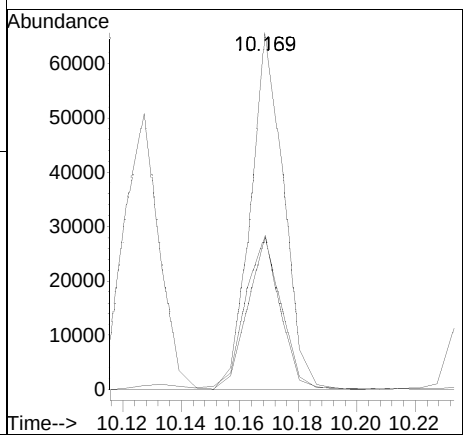


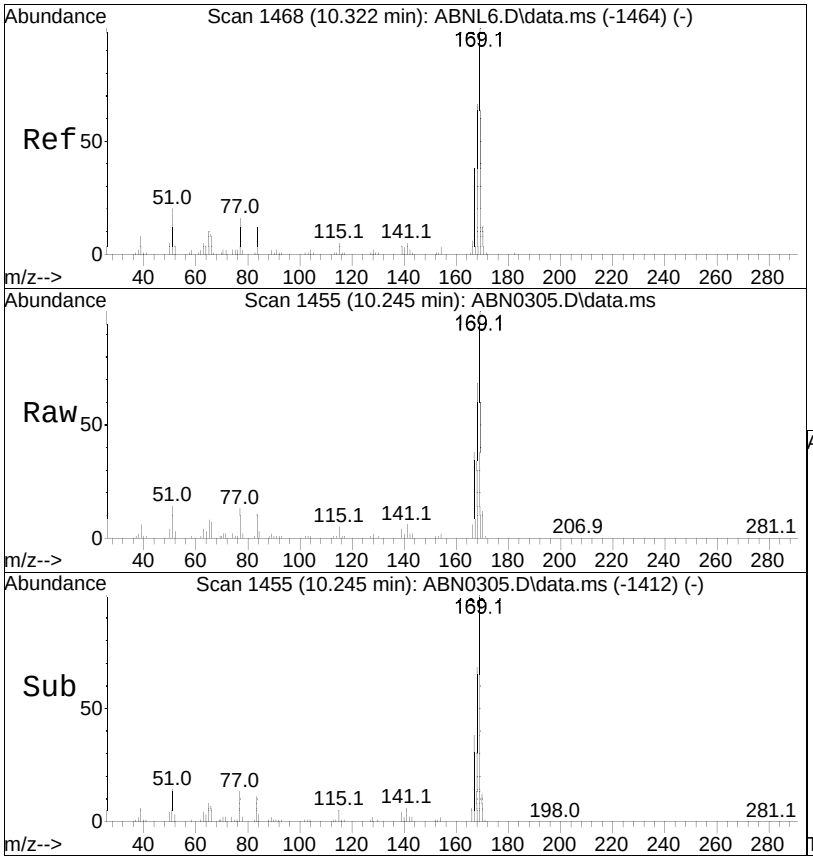


#76
4,6-Dinitro-o-cresol
Concen: 4.27 ug/ml
RT: 10.169 min Scan# 1442
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:198 Resp: 51586

Ion	Ratio	Lower	Upper
198	100		
51	45.8	76.0	114.0#
105	44.1	45.6	68.4#

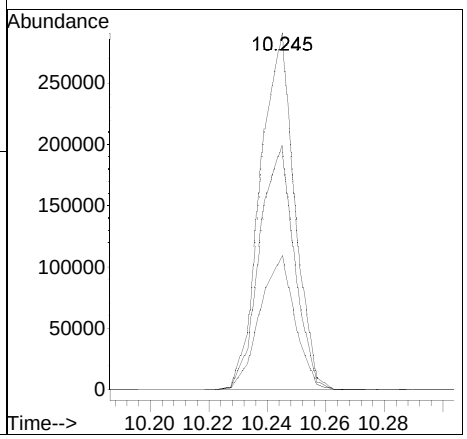


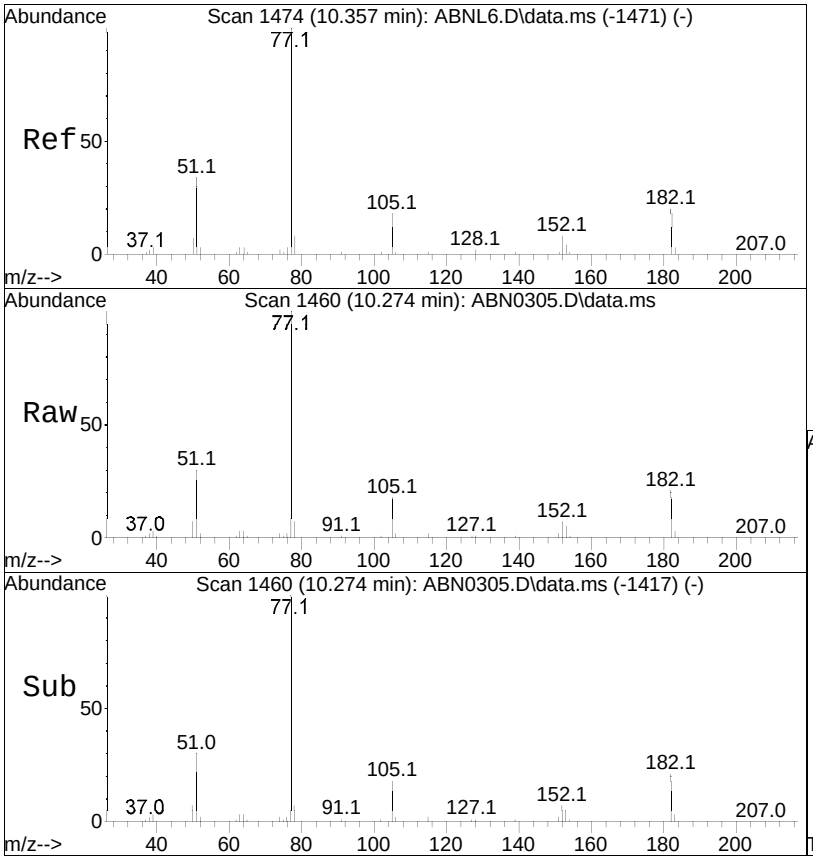


#77
NDPA/DPA
Concen: 4.34 ug/ml
RT: 10.245 min Scan# 1455
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:169 Resp: 236184

Ion	Ratio	Lower	Upper
169	100		
168	69.8	54.0	81.0
167	38.8	28.6	42.8

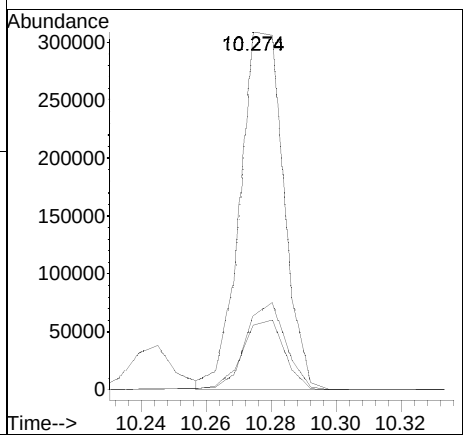


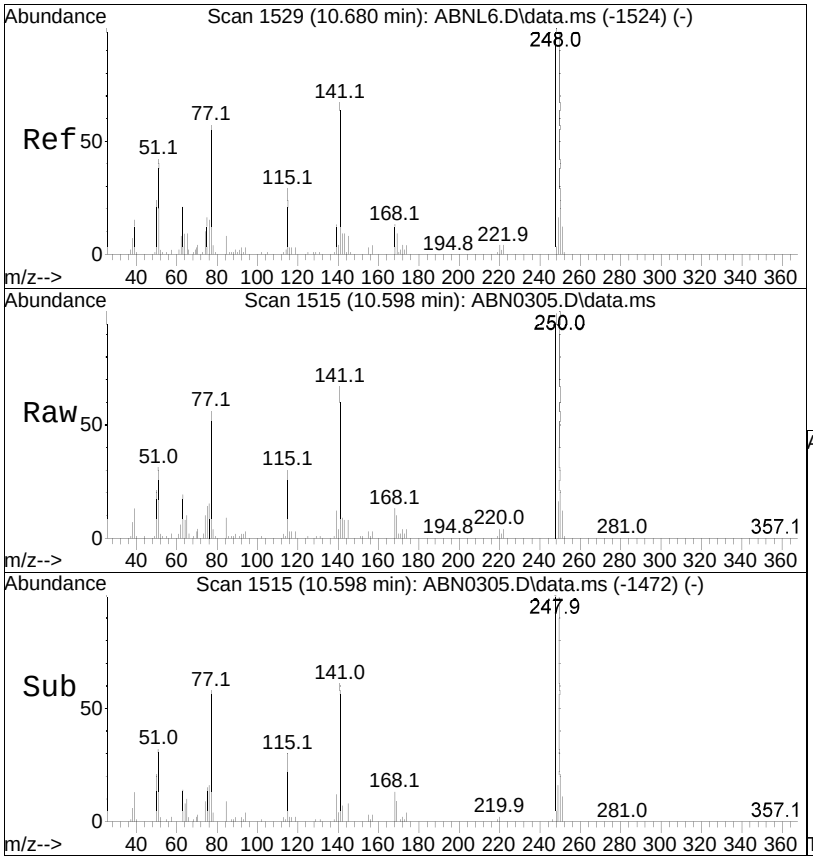


#78
Azobenzene
Concen: 5.37 ug/ml
RT: 10.274 min Scan# 1460
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion: 77 Resp: 285687

Ion	Ratio	Lower	Upper
77	100		
182	23.1	17.4	26.2
105	19.7	15.4	23.2

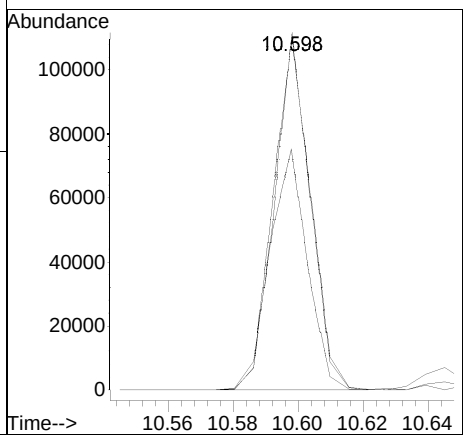


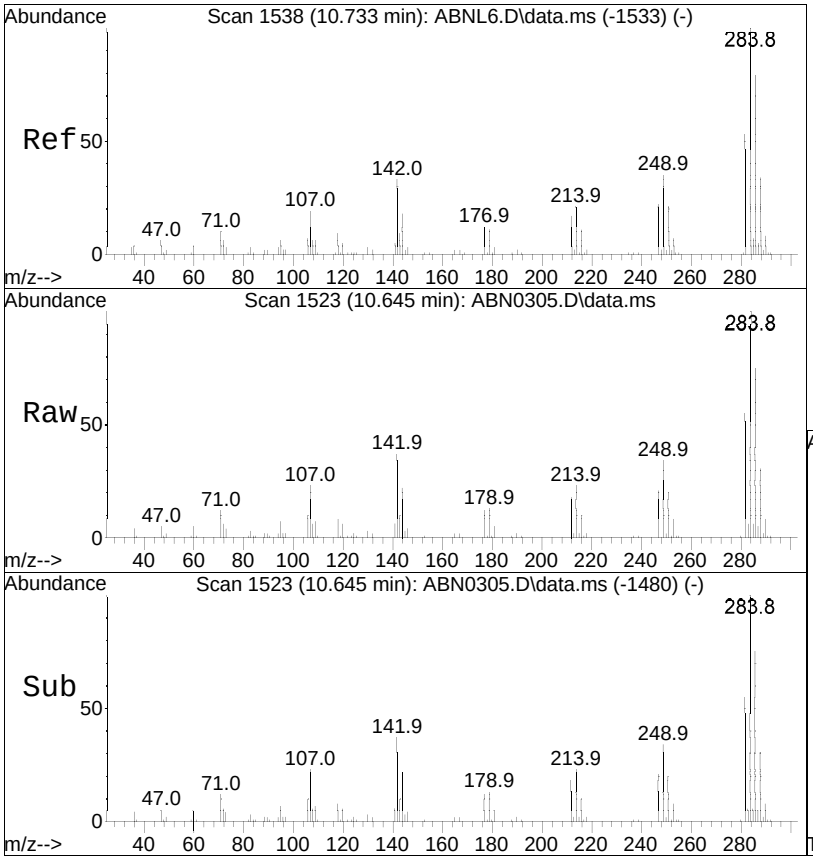


#80
4-Bromophenyl phenyl ether
Concen: 4.36 ug/ml
RT: 10.598 min Scan# 1515
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:248 Resp: 87530

Ion	Ratio	Lower	Upper
248	100		
141	69.1	76.6	114.8#
250	96.5	77.3	115.9

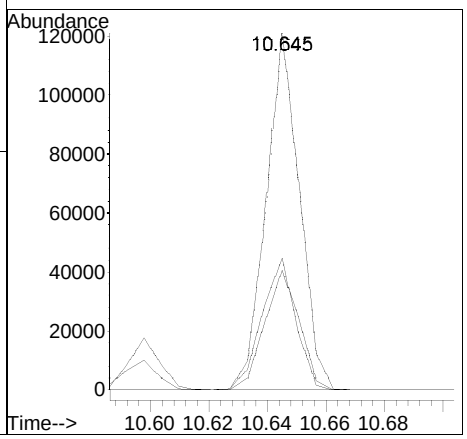


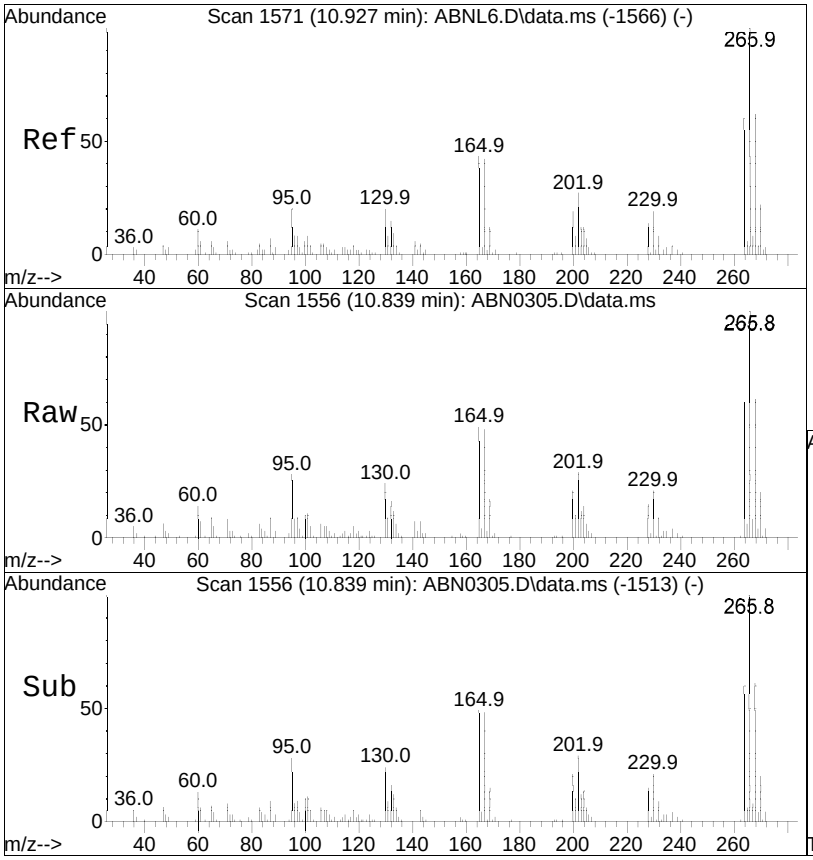


#81
Hexachlorobenzene
Concen: 4.19 ug/ml
RT: 10.645 min Scan# 1523
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:284 Resp: 95208

Ion	Ratio	Lower	Upper
284	100		
142	37.6	41.9	62.9#
249	35.1	24.1	36.1

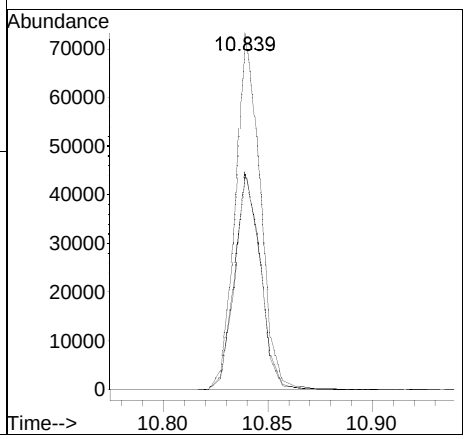


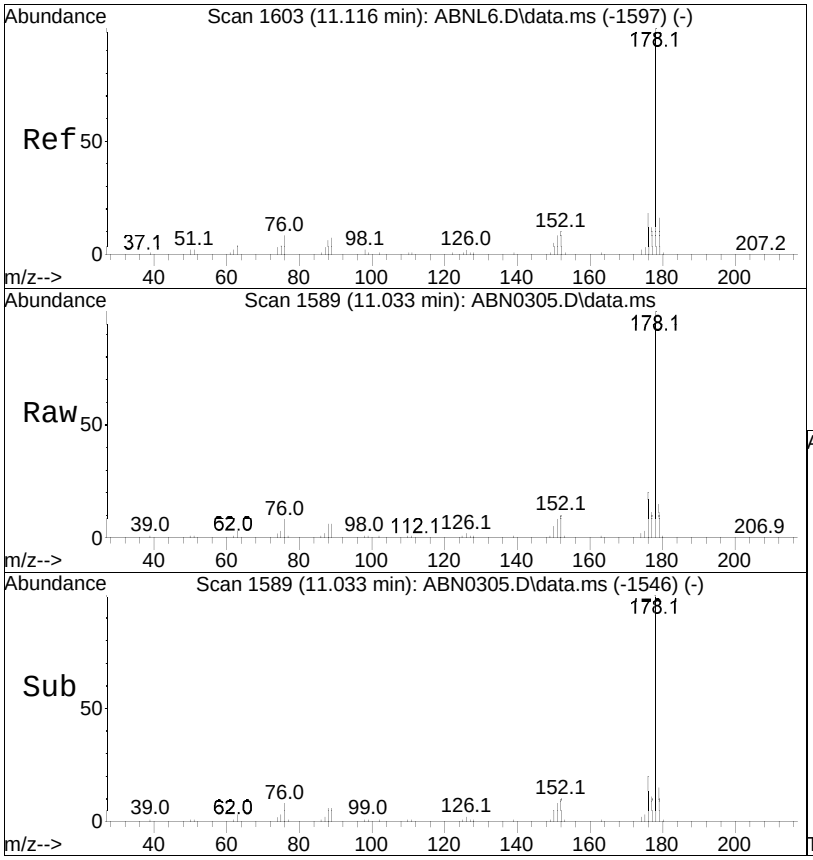


#82
Pentachlorophenol
Concen: 4.40 ug/ml
RT: 10.839 min Scan# 1556
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:266 Resp: 60539

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.7	74.5
268	63.0	50.5	75.7

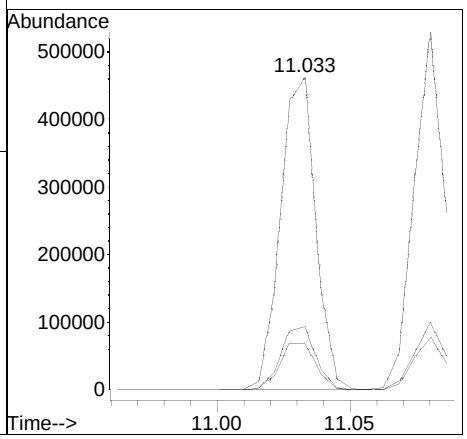


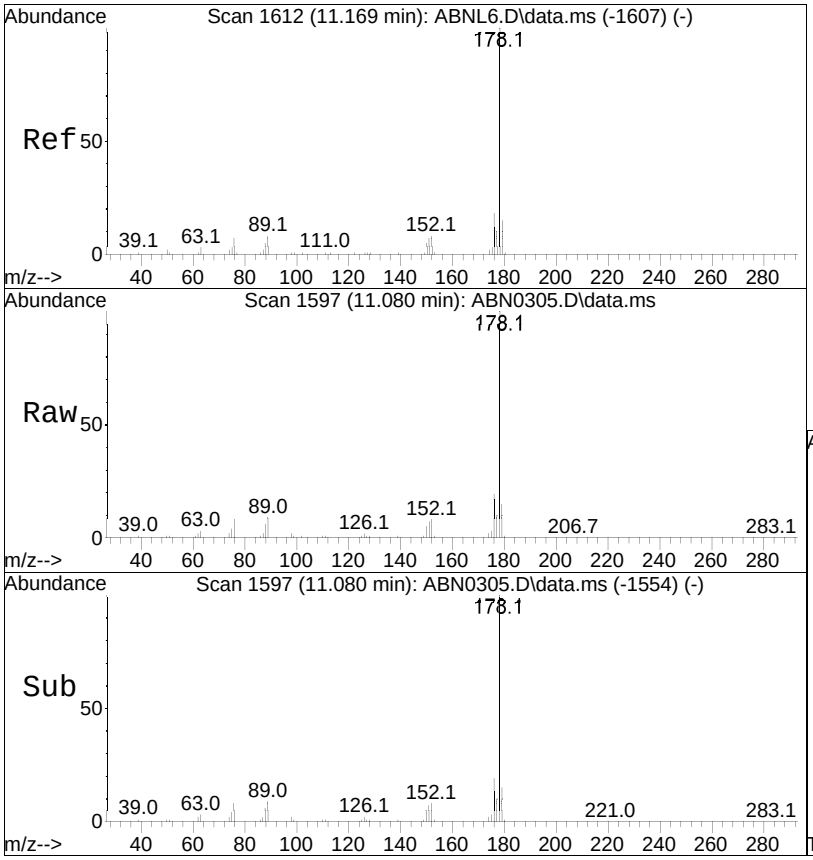


#89
Phenanthrene
Concen: 4.51 ug/ml
RT: 11.033 min Scan# 1589
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:178 Resp: 425978

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	20.1	15.4	23.2

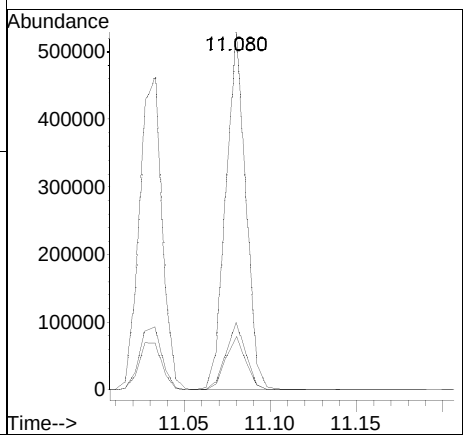


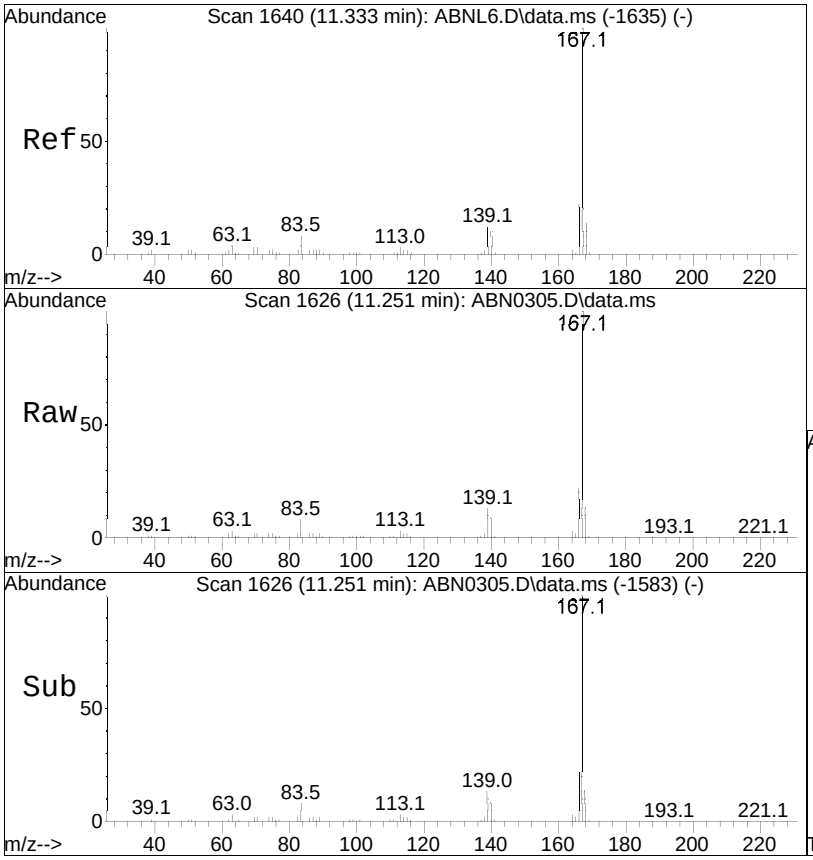


#90
Anthracene
Concen: 4.56 ug/ml
RT: 11.080 min Scan# 1597
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:178 Resp: 429311

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	18.8	14.6	22.0

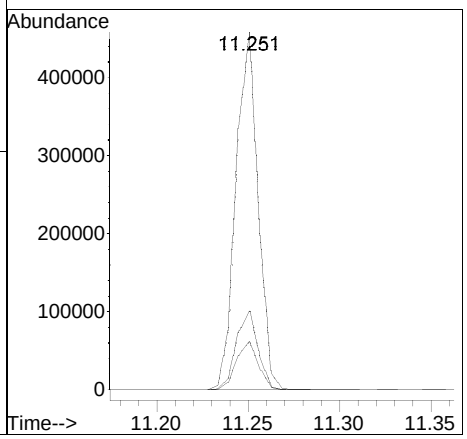


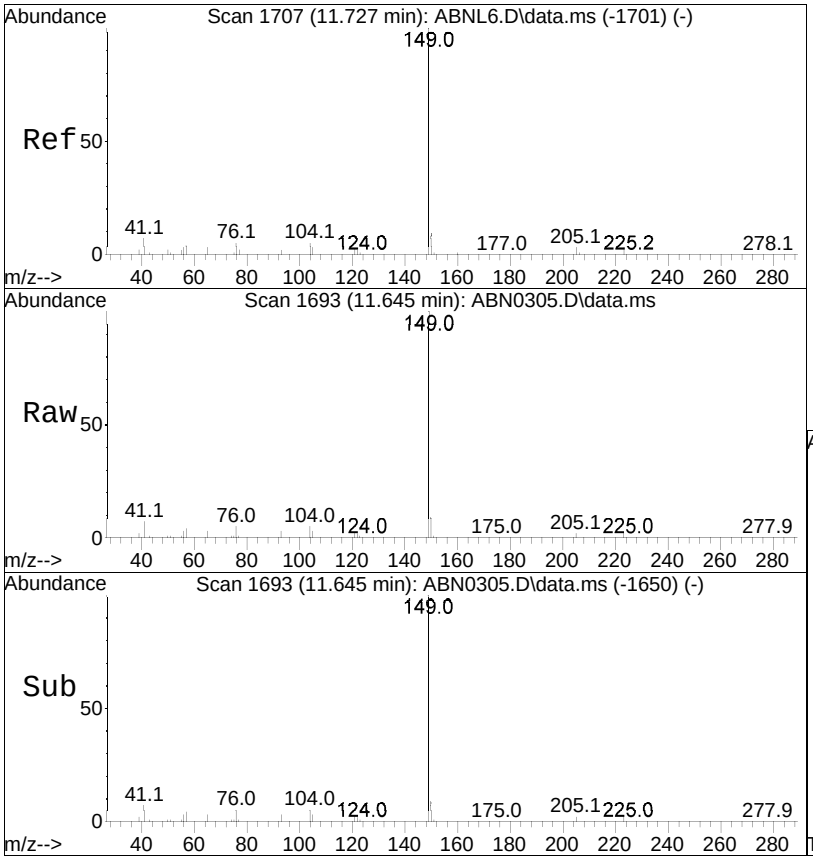


#91
Carbazole
Concen: 4.51 ug/ml
RT: 11.251 min Scan# 1626
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:167 Resp: 382308

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	21.9	17.4	26.0

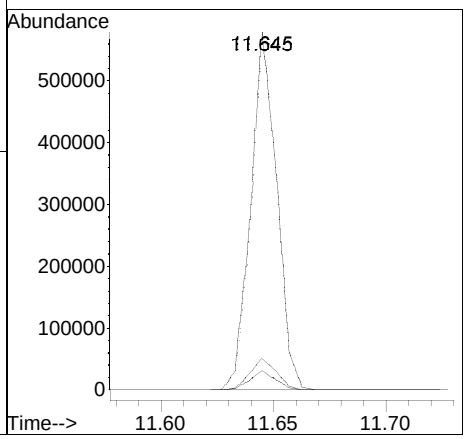


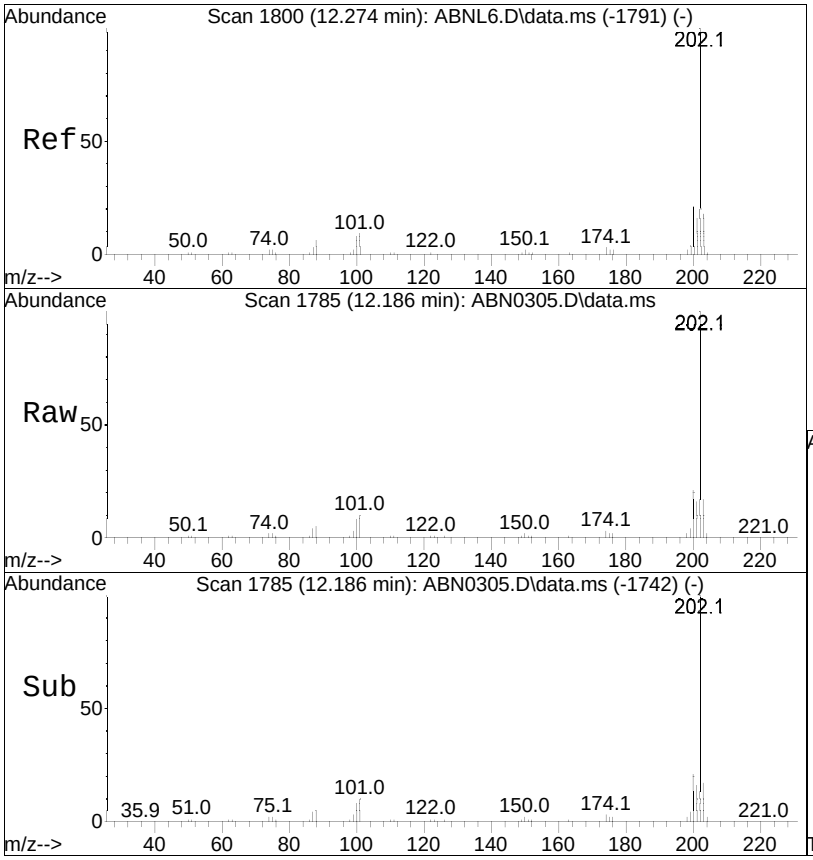


#92
Di-n-butylphthalate
Concen: 4.29 ug/ml
RT: 11.645 min Scan# 1693
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:149 Resp: 455315

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.4	4.5	6.7

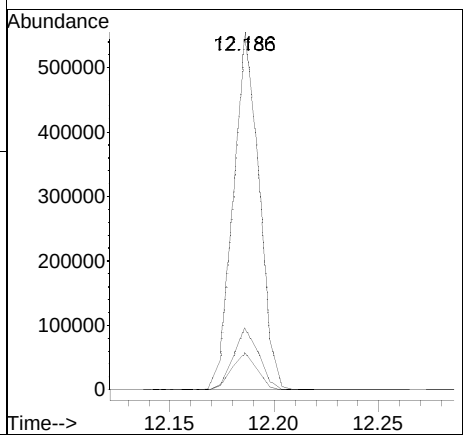


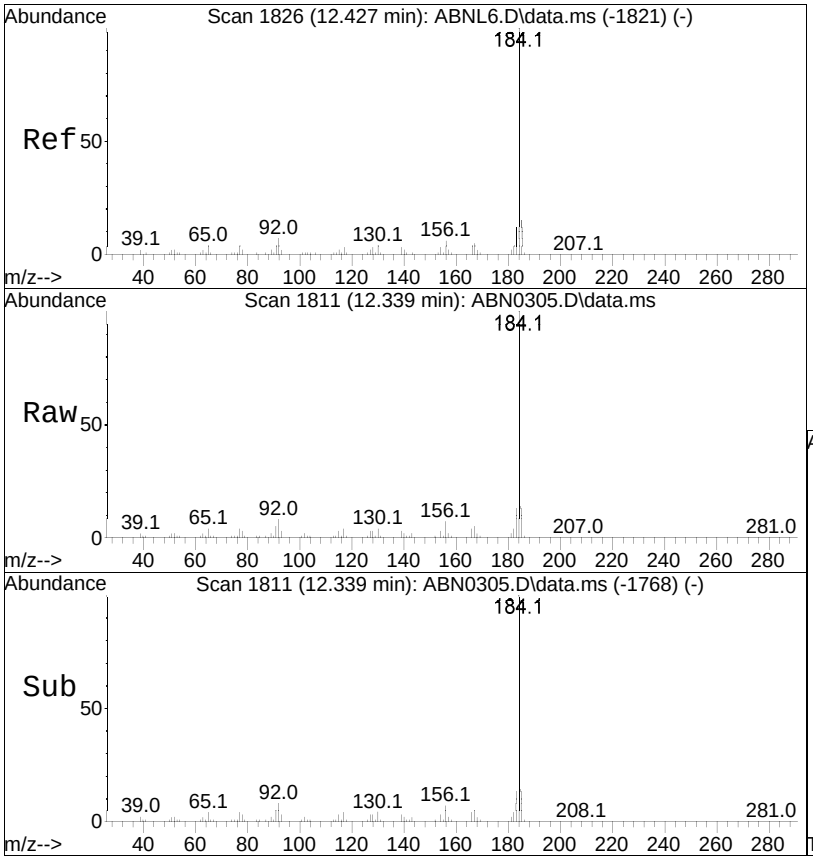


#93
Fluoranthene
Concen: 4.34 ug/ml
RT: 12.186 min Scan# 1785
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:202 Resp: 472474

Ion	Ratio	Lower	Upper
202	100		
101	10.3	13.5	20.3#
203	17.3	13.6	20.4

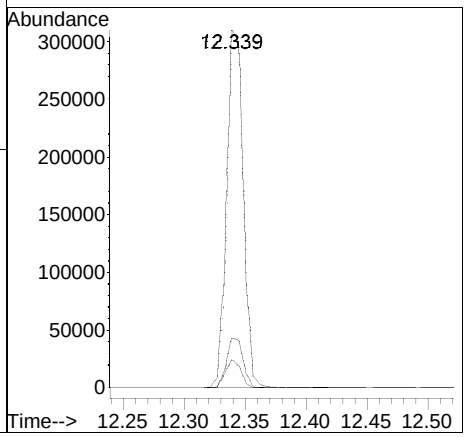


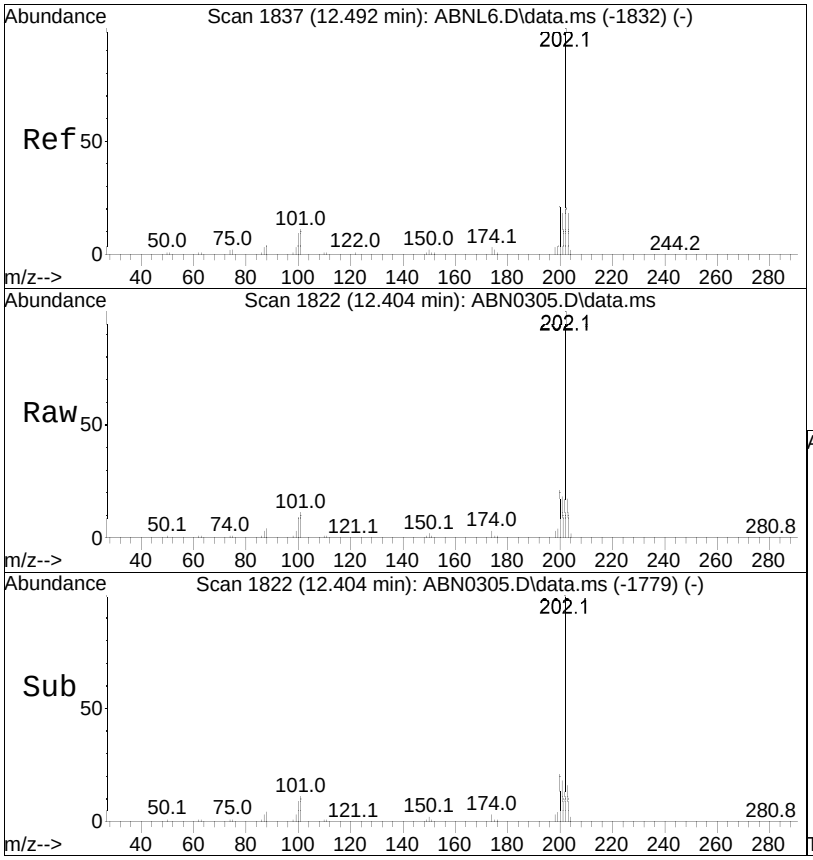


#94
Benzidine
Concen: 4.65 ug/ml
RT: 12.339 min Scan# 1811
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:184 Resp: 290530

Ion	Ratio	Lower	Upper
184	100		
92	7.5	9.1	13.7#
185	14.0	11.1	16.7

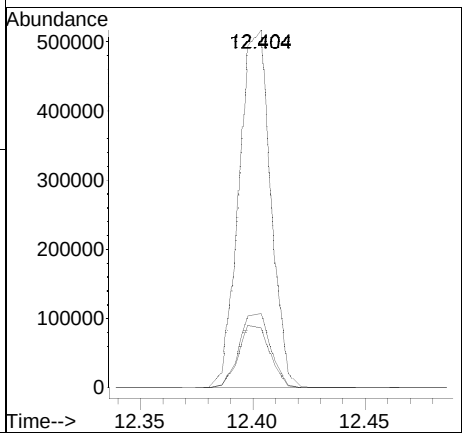


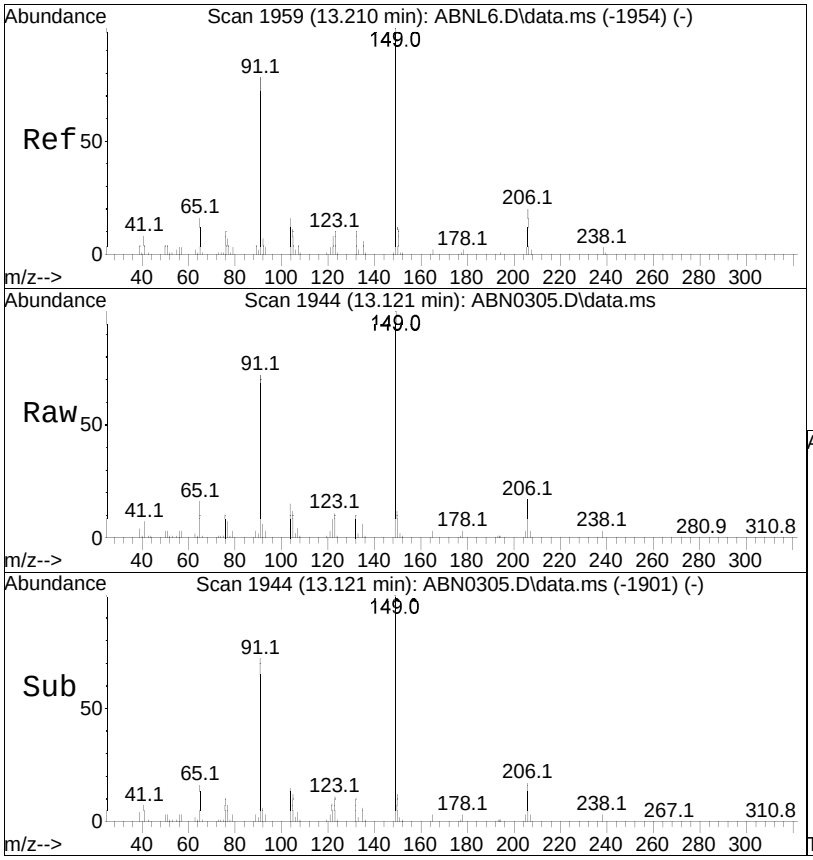


#95
Pyrene
Concen: 4.37 ug/ml
RT: 12.404 min Scan# 1822
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:202 Resp: 501872

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.5	14.2	21.4

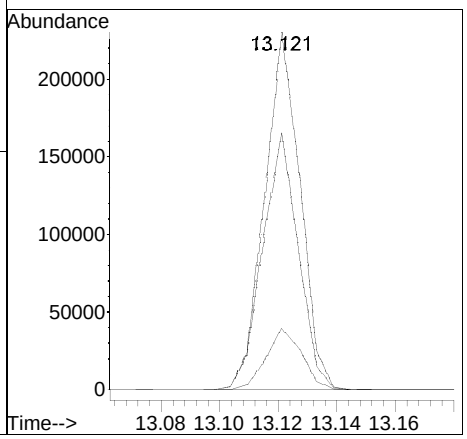


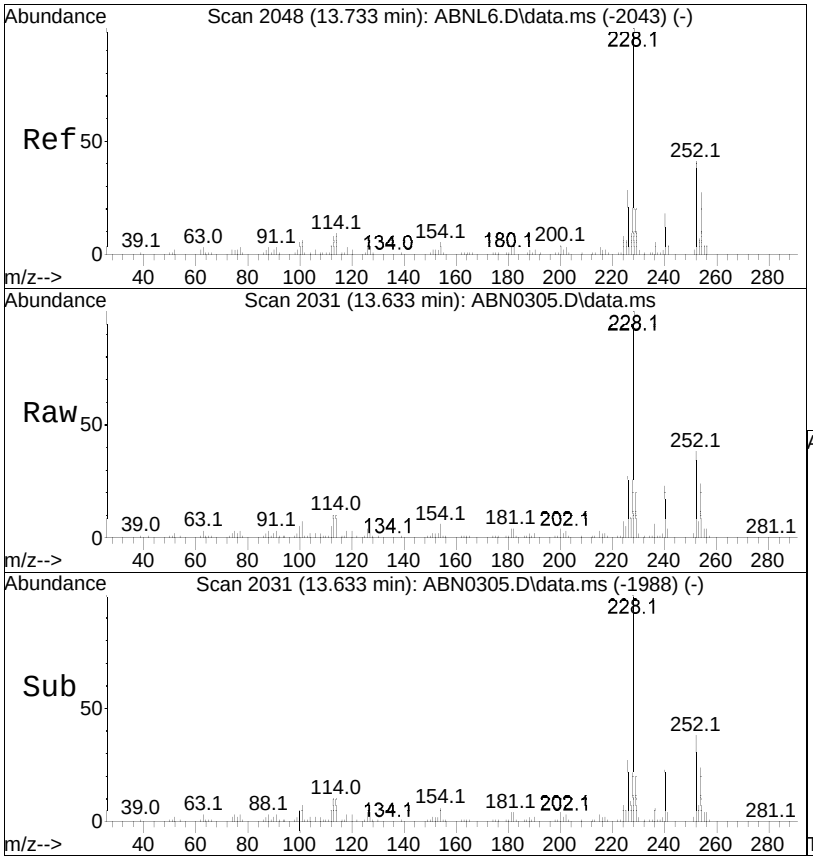


#97
Butyl benzyl phthalate
Concen: 4.31 ug/ml
RT: 13.121 min Scan# 1944
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:149 Resp: 192392

Ion	Ratio	Lower	Upper
149	100		
91	72.5	63.3	94.9
206	17.3	13.9	20.9

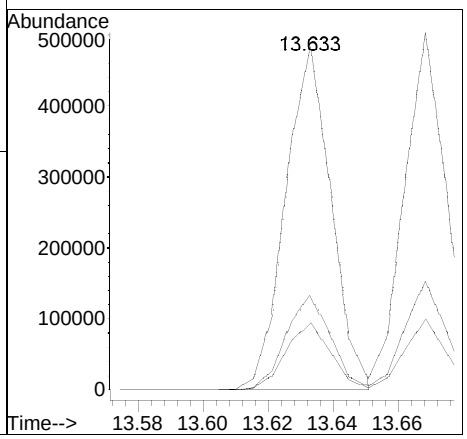


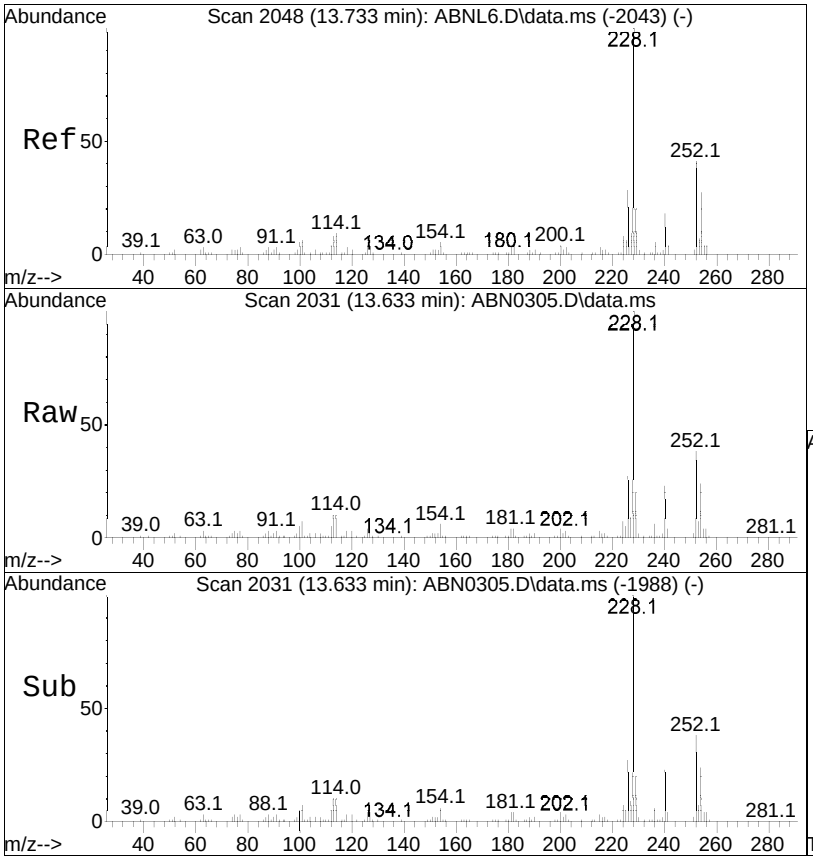


#105
Benzo(a)anthracene
Concen: 4.60 ug/ml
RT: 13.633 min Scan# 2031
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:228 Resp: 471890

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.4
229	19.4	15.6	23.4

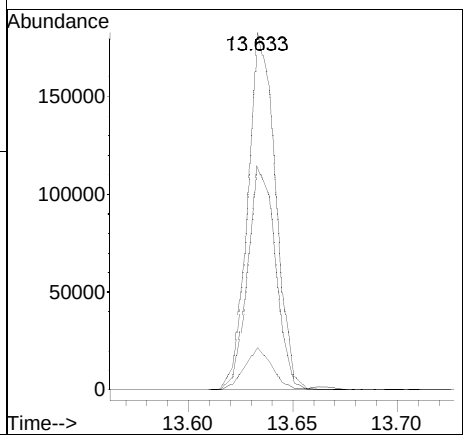


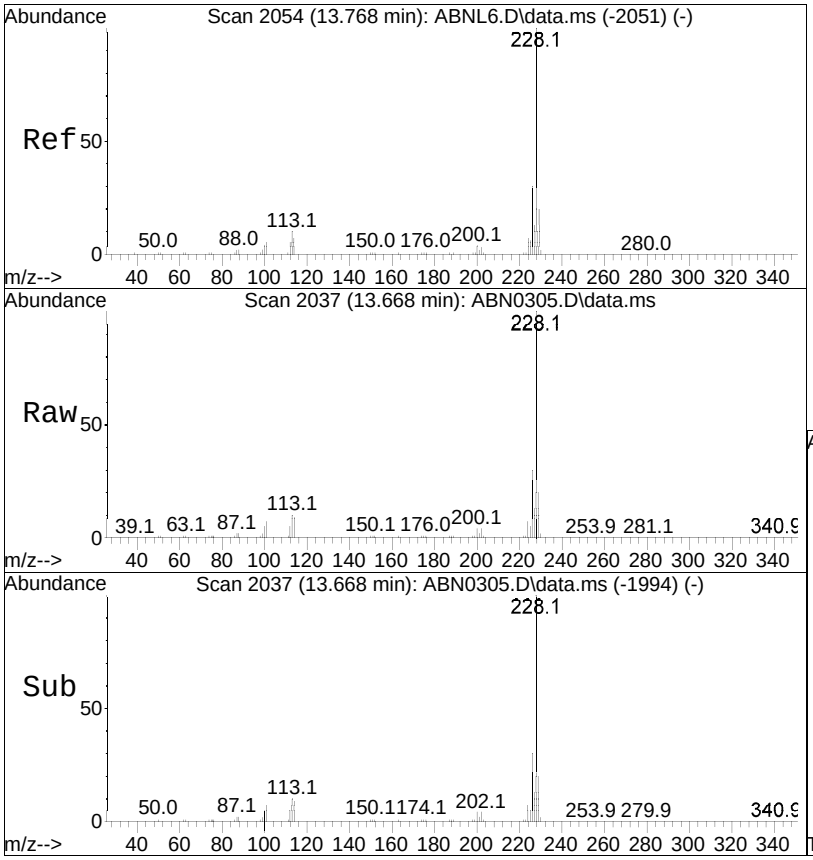


#106
3,3'-Dichlorobenzidine
Concen: 4.99 ug/ml
RT: 13.633 min Scan# 2031
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:252 Resp: 168004

Ion	Ratio	Lower	Upper
252	100		
126	12.0	14.5	21.7#
254	62.8	51.2	76.8

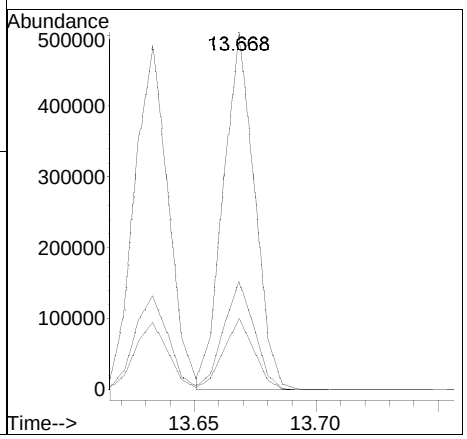


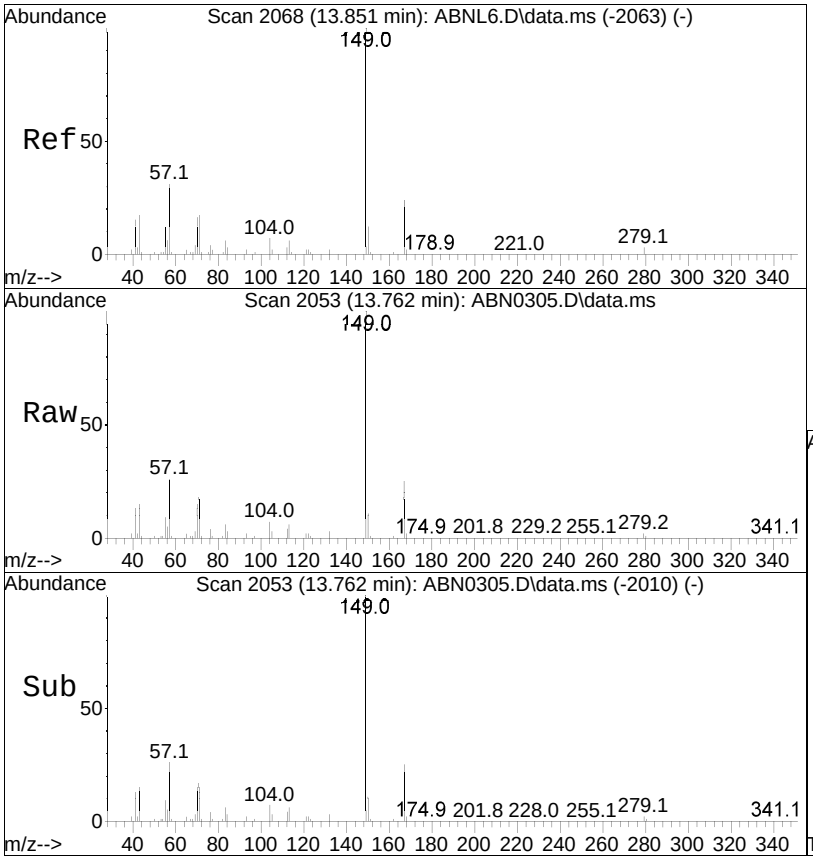


#107
Chrysene
Concen: 4.56 ug/ml
RT: 13.668 min Scan# 2037
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:228 Resp: 448329

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	19.6	15.8	23.8

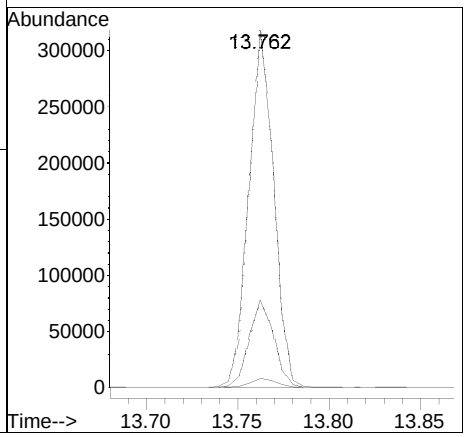


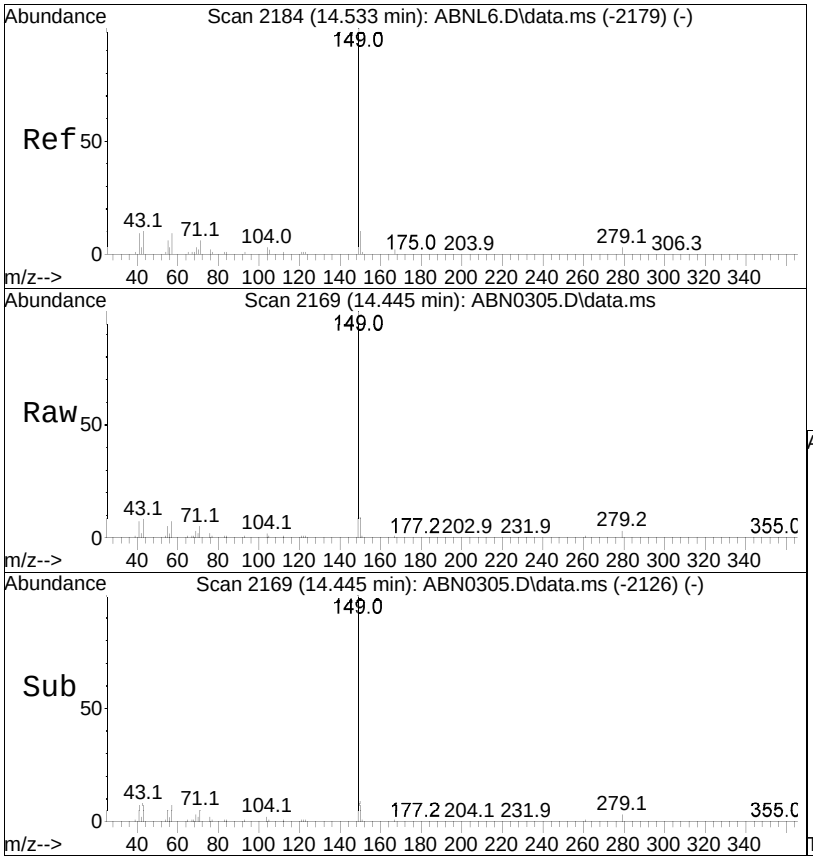


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.84 ug/ml
RT: 13.762 min Scan# 2053
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:149 Resp: 297727

Ion	Ratio	Lower	Upper
149	100		
167	24.5	22.1	33.1
279	2.5	3.0	4.4#

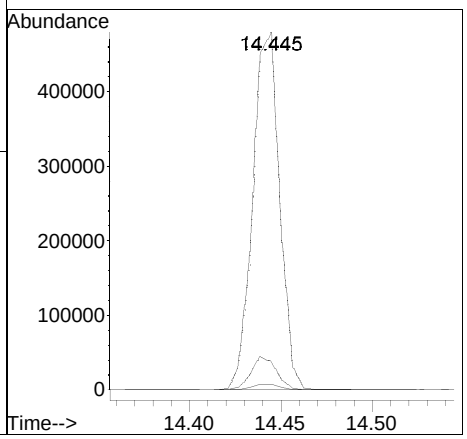


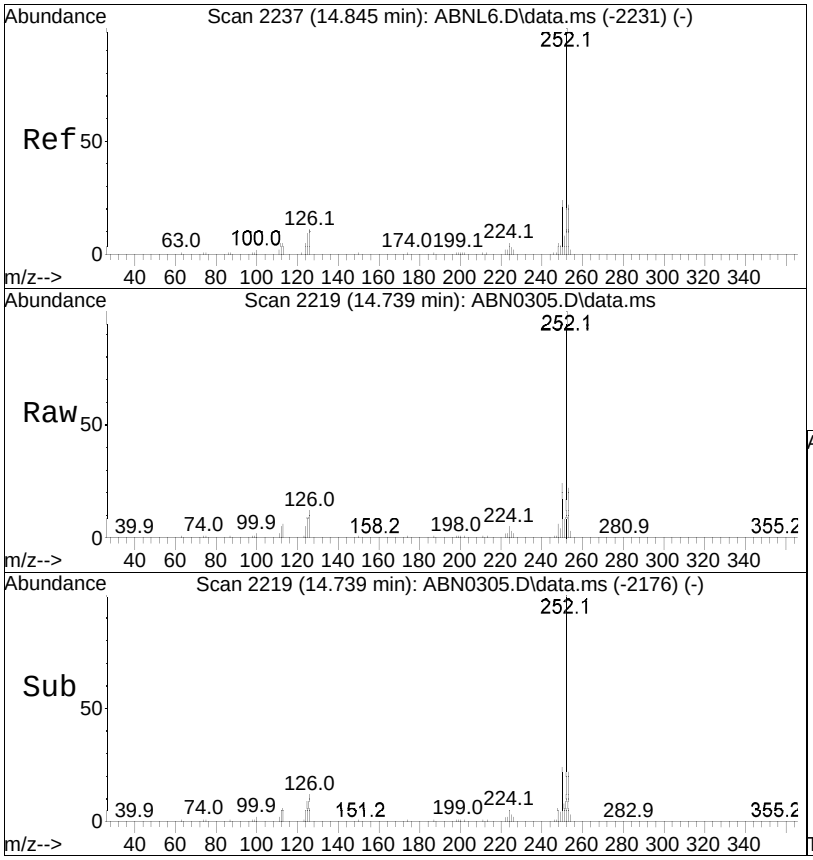


#109
Di-n-octylphthalate
Concen: 4.72 ug/ml
RT: 14.445 min Scan# 2169
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:149 Resp: 481972

Ion	Ratio	Lower	Upper
149	100		
43	9.1	18.8	28.2#
167	1.5	1.3	1.9

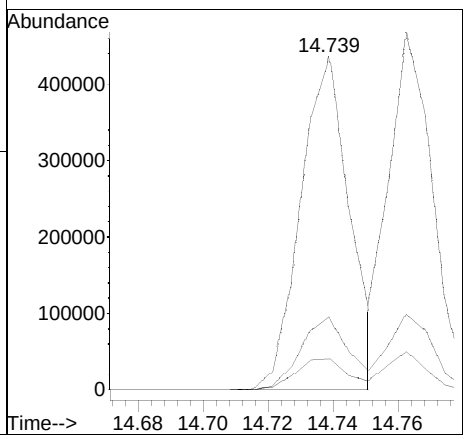


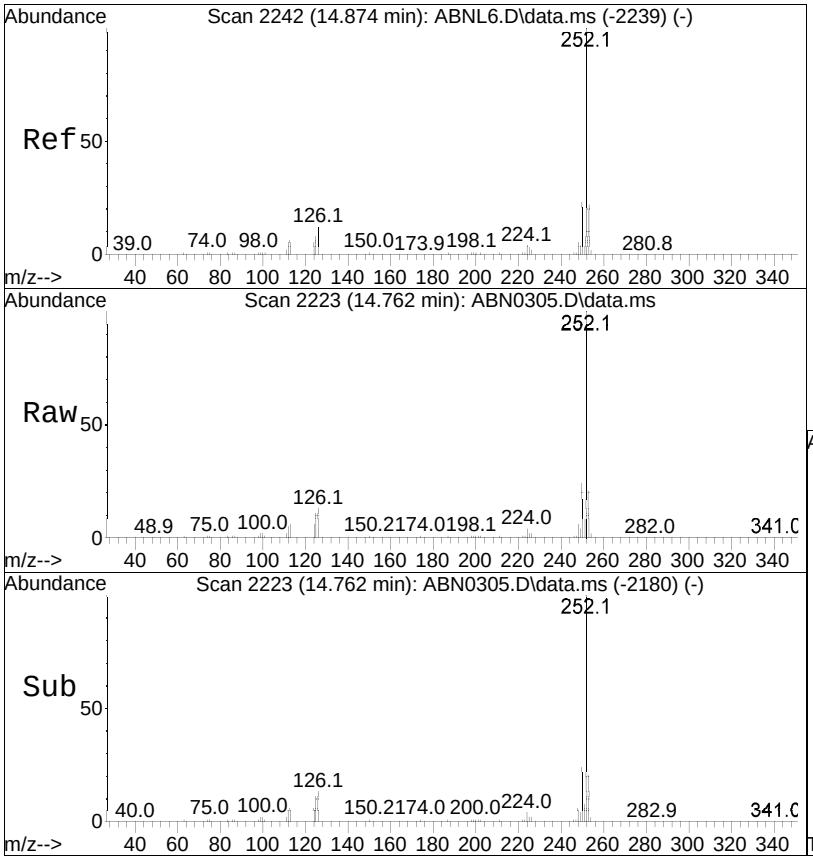


#110
Benzo(b)fluoranthene
Concen: 4.66 ug/ml
RT: 14.739 min Scan# 2219
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:252 Resp: 461515

Ion	Ratio	Lower	Upper
252	100		
125	10.2	13.3	19.9#
253	21.8	17.1	25.7

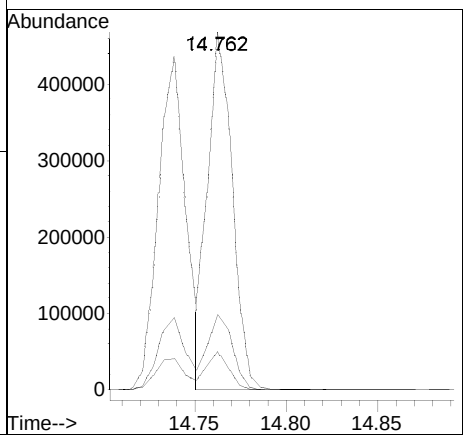


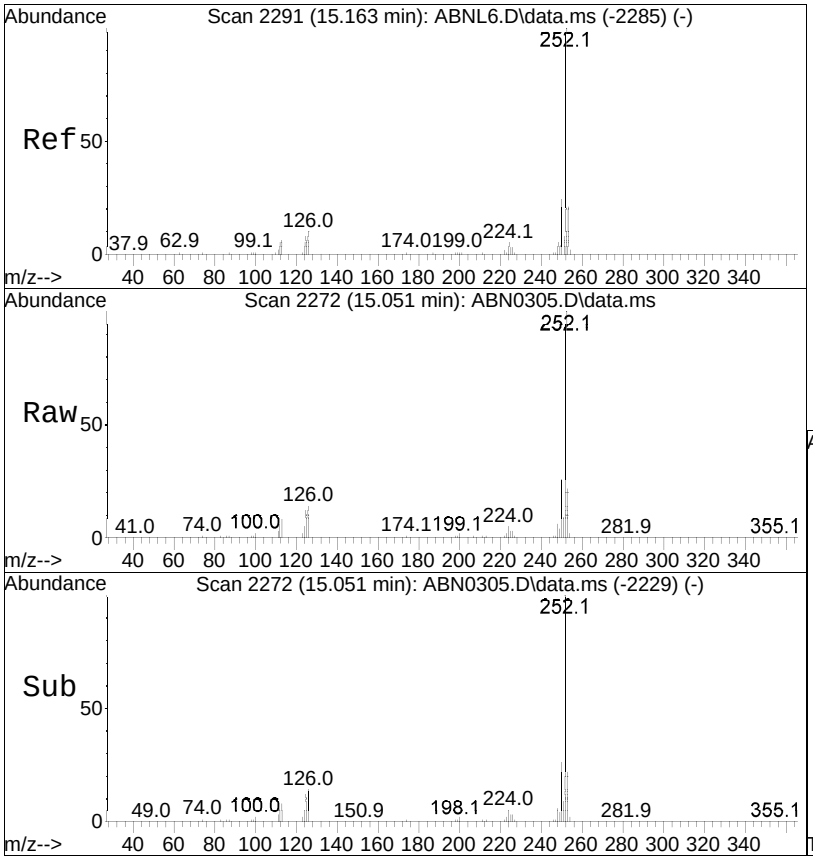


#111
Benzo(k)fluoranthene
Concen: 4.69 ug/ml
RT: 14.762 min Scan# 2223
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:252 Resp: 431826

Ion	Ratio	Lower	Upper
252	100		
125	9.8	13.0	19.6#
253	21.2	16.8	25.2

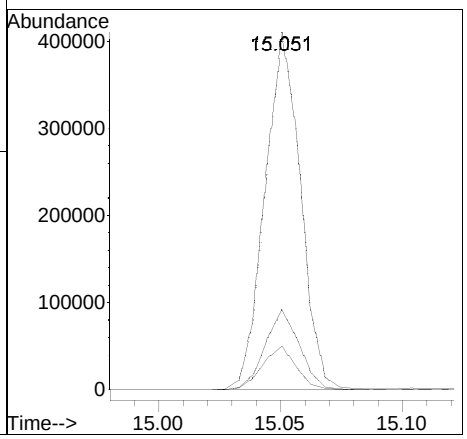


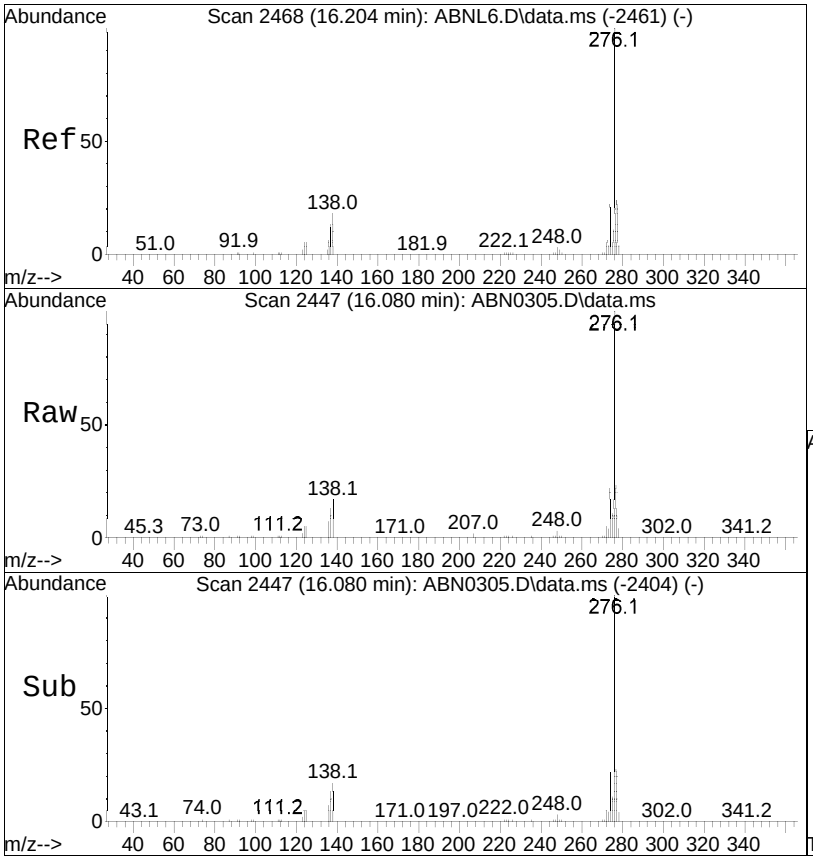


#112
Benzo(a)pyrene
Concen: 4.80 ug/ml
RT: 15.051 min Scan# 2272
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:252 Resp: 412601

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	22.0	16.9	25.3

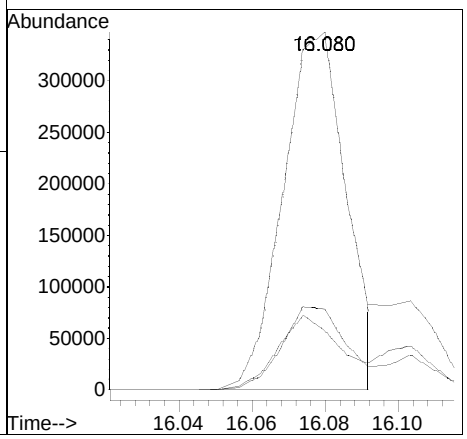


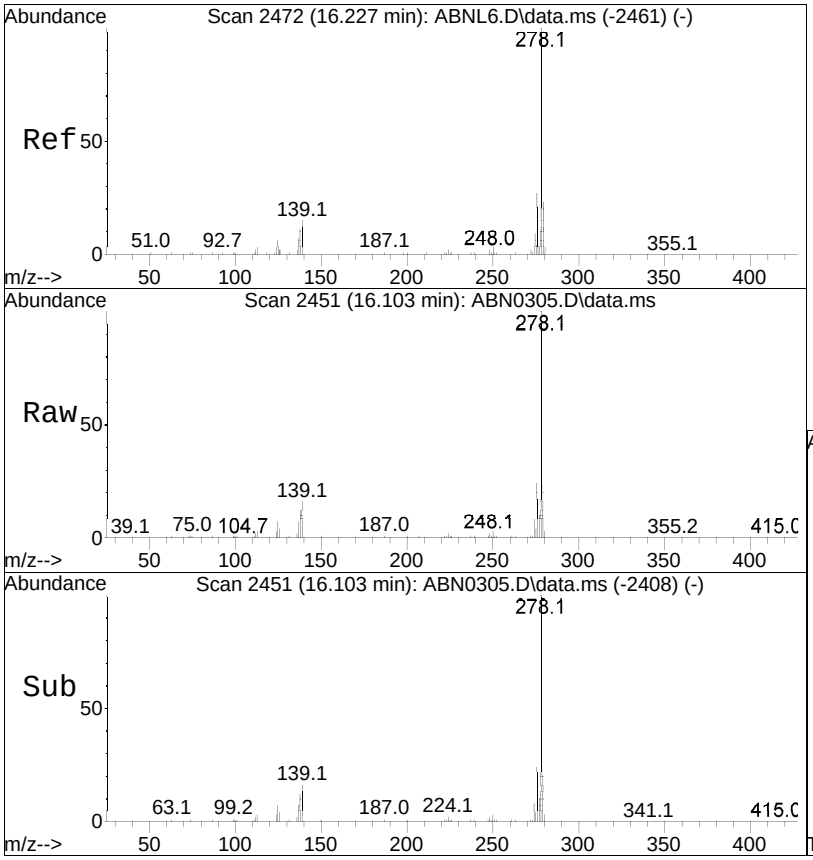


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.45 ug/mL M6
RT: 16.080 min Scan# 2447
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:276 Resp: 419939

Ion	Ratio	Lower	Upper
276	100		
138	21.5	25.1	37.7#
277	31.1	18.6	28.0#

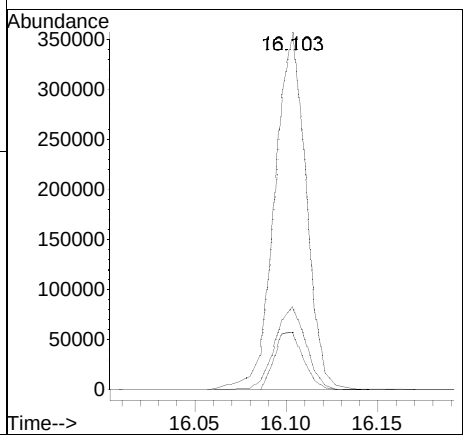


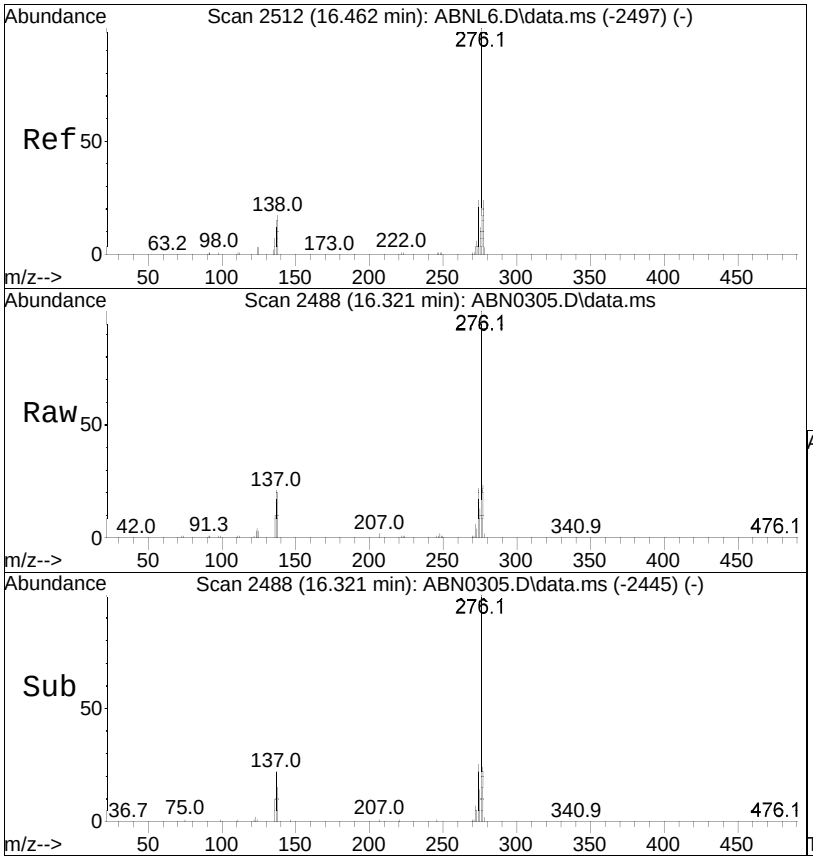


#115
Dibenzo(a,h)anthracene
Concen: 4.72 ug/ml
RT: 16.103 min Scan# 2451
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:278 Resp: 423465

Ion	Ratio	Lower	Upper
278	100		
139	15.0	20.8	31.2#
279	23.3	18.3	27.5

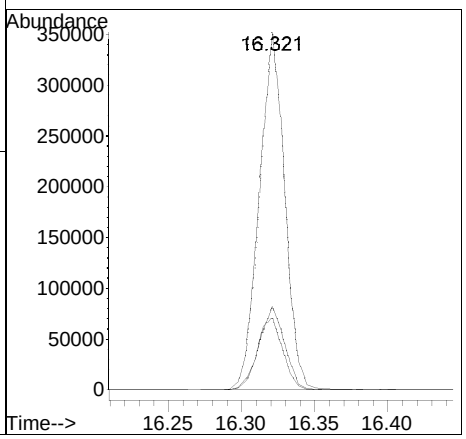




#116
Benzo(ghi)perylene
Concen: 4.99 ug/ml
RT: 16.321 min Scan# 2488
Delta R.T. 0.000 min
Lab File: ABN0305.D
Acq: 5 Mar 2025 9:47 am

Tgt Ion:276 Resp: 419218

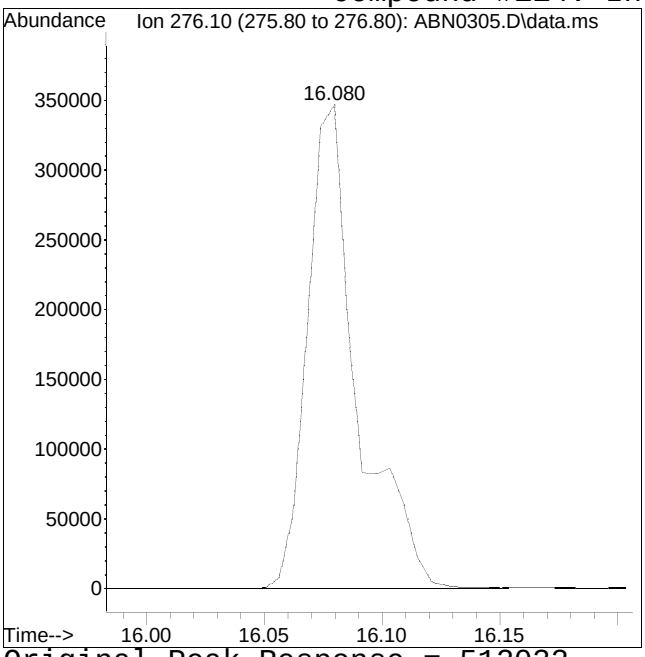
Ion	Ratio	Lower	Upper
276	100		
138	20.7	29.2	43.8#
277	23.6	18.8	28.2



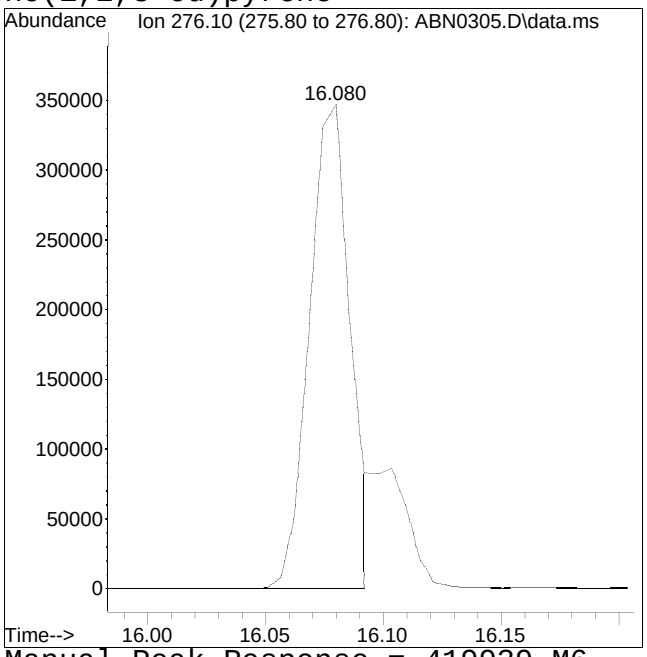
Manual Integration Report

Data Path : I:\8270\SV106\250305RVT\ QMethod : FS241009SV106.m
Data File : ABN0305.D Operator : SV106:smz
Date Inj'd : 3/5/2025 9:47 am Instrument : SV 106
Sample : wg2036963-3,32,,ABN 11297 Quant Date : 3/5/2025 11:11 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 512032



Manual Peak Response = 419939 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305RVT\
Data File : AP90305.D
Acq On : 5 Mar 2025 10:13 am
Operator : SV106:smz
Sample : wg2036963-4,32,,AP9 11152 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 05 11:10:44 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:34 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
28	T	Benzaldehyde	0.948	0.858	9.5	97	0.00
29	T	Acetophenone	1.829	1.807	1.2	110	0.00
30	T	m-Toluidine	1.612	1.524	5.5	103	0.00
31	T	2-Chloroaniline	1.609	1.519	5.6	101	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	108	0.00
56	T	a-Terpineol	0.282	0.274	2.8	105	0.00
57	T	3-Chloroaniline	0.132	0.146	-10.6	113	0.00
58	T	2,6-Dichlorophenol	0.300	0.279	7.0	97	0.00
59	T	1-chloro-2-nitrobenzene	0.145	0.143	1.4	106	0.00
60	T	Caprolactam	0.147	0.117	20.4	84	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.402	0.367	8.7	99	0.00
62	T	Biphenyl	0.907	0.818	9.8	95	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	106	0.00
84	T	Dichloran	0.181	0.156	13.8	93	0.00
85	T	Pentachloronitrobenzene	0.193	0.179	7.3	96	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	98	0.00
99	T	Diphenamid	0.505	0.453	10.3	84	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : AP90305.D
Acq On : 5 Mar 2025 10:13 am
Operator : SV106:smz
Sample : wg2036963-4,32,,AP9 11152 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 05 11:10:44 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:34 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.372	152	75233	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	7.807	136	281912	4.000	ug/ml	#	0.00
83) IS2_Acenaphthene-d10	9.572	164	163577	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	11.007	188	318818	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.790	105	80727	4.529	ug/ml		97
29) Acetophenone	6.878	105	169956	4.942	ug/ml	#	78
30) m-Toluidine	6.978	106	143344	4.727	ug/ml		94
31) 2-Chloroaniline	7.384	127	142889	4.720	ug/ml		94
56) a-Terpineol	7.878	59	96401	4.848	ug/ml	#	78
57) 3-Chloroaniline	7.890	65	51563	5.522	ug/ml		79
58) 2,6-Dichlorophenol	7.919	162	98431	4.656	ug/ml		91
59) 1-chloro-2-nitrobenzene	8.189	111	50487	4.927	ug/ml	#	1
60) Caprolactam	8.225	55	41170	3.982	ug/ml	#	57
61) 1,2,4,5-Tetrachloroben...	8.719	216	129226	4.563	ug/ml		98
62) Biphenyl	9.025	154	288147	4.508	ug/ml		98
84) Dichloran	10.707	206	31946	4.314	ug/ml	#	72
85) Pentachloronitrobenzene	10.854	237	36681	4.641	ug/ml	#	83
99) Diphenamid	11.919	167	180367	4.482	ug/ml		86

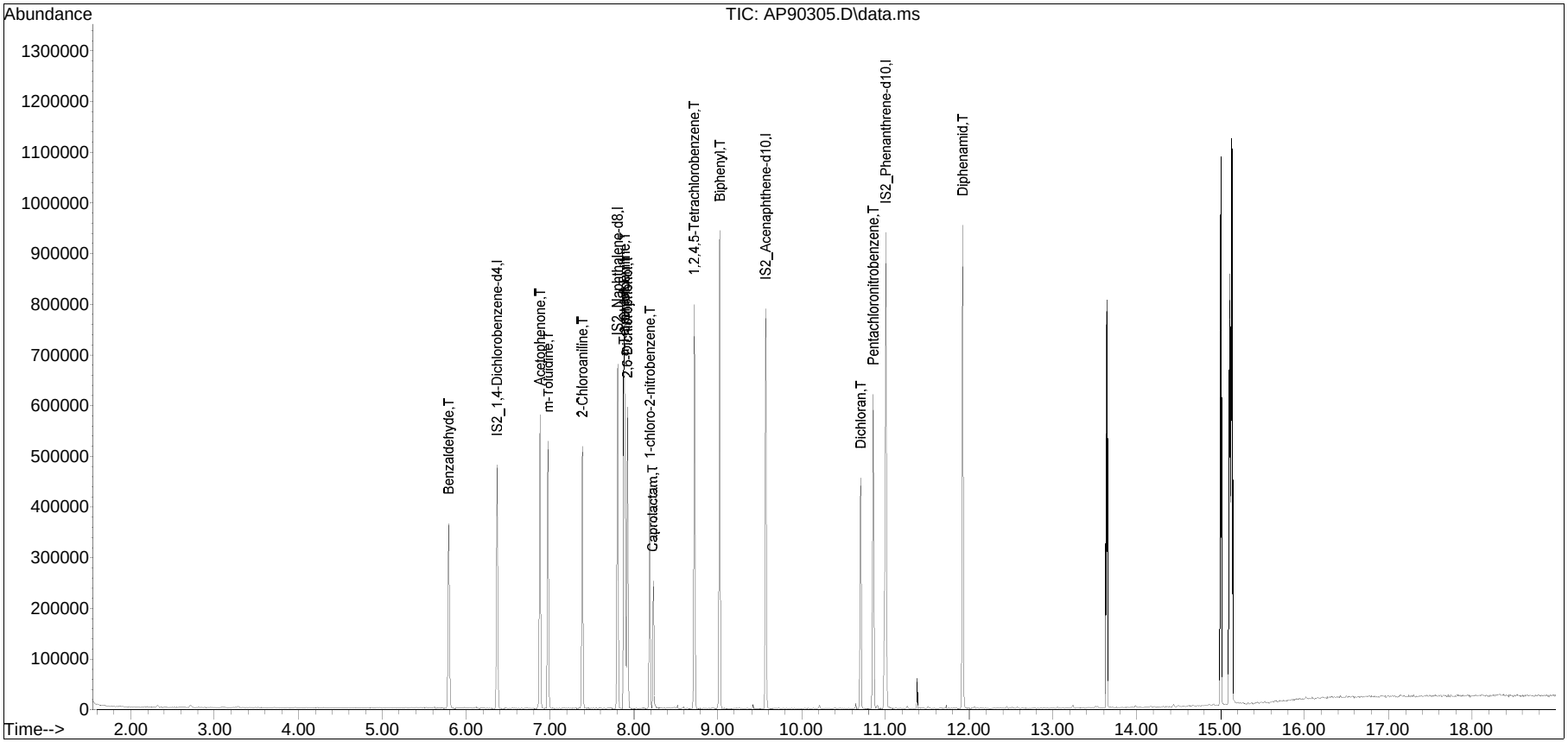
(#) = qualifier out of range (m) = manual integration (+) = signals summed

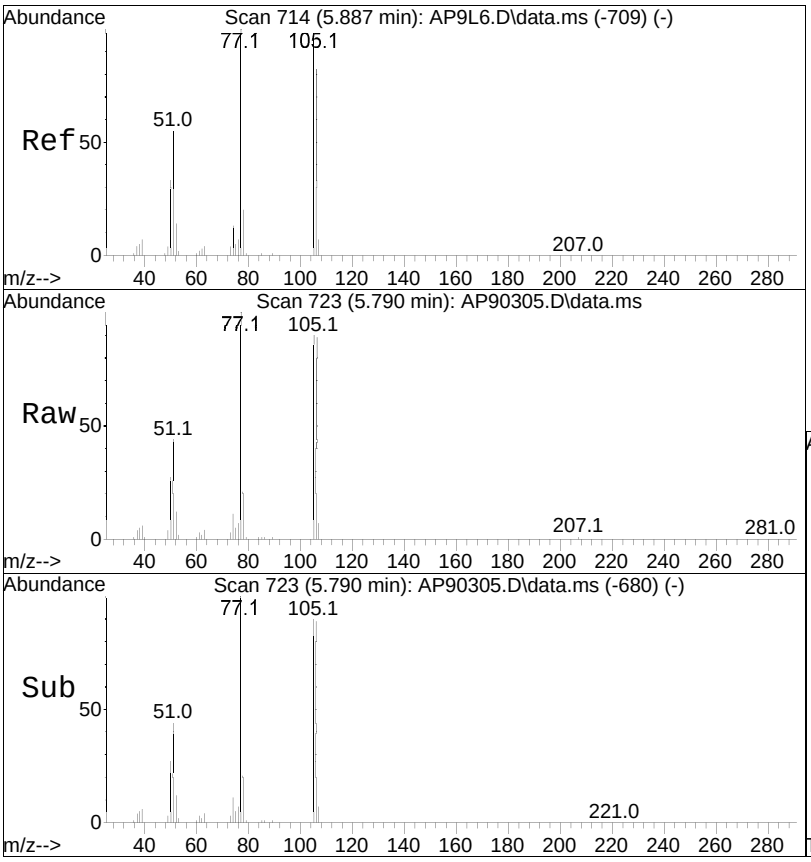
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : AP90305.D
Acq On : 5 Mar 2025 10:13 am
Operator : SV106:smz
Sample : wg2036963-4,32,,AP9 11152 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 05 11:10:44 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:11:34 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

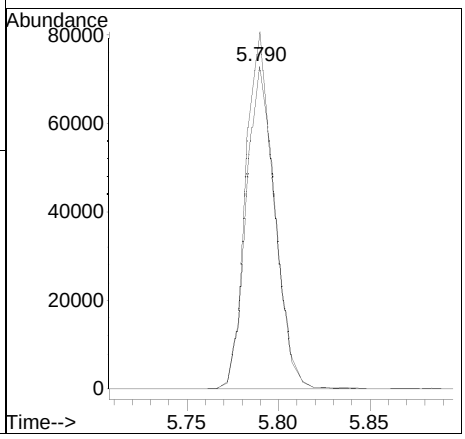


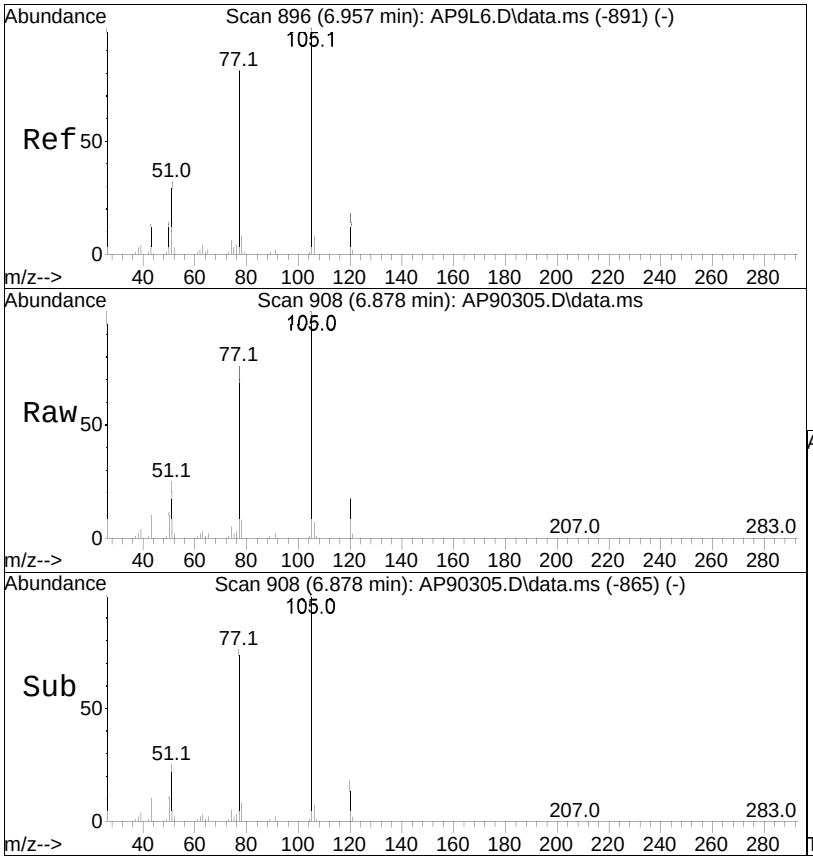


#28
Benzaldehyde
Concen: 4.53 ug/ml
RT: 5.790 min Scan# 723
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:105 Resp: 80727

Ion	Ratio	Lower	Upper
105	100		
77	106.2	82.2	123.4

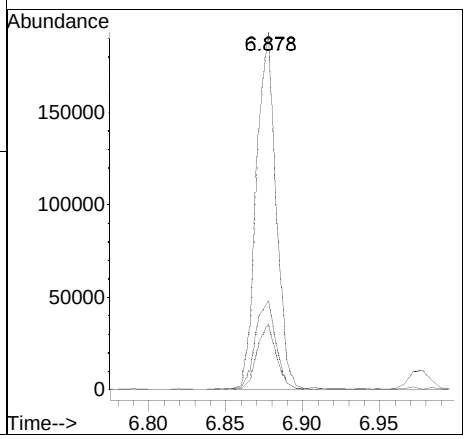


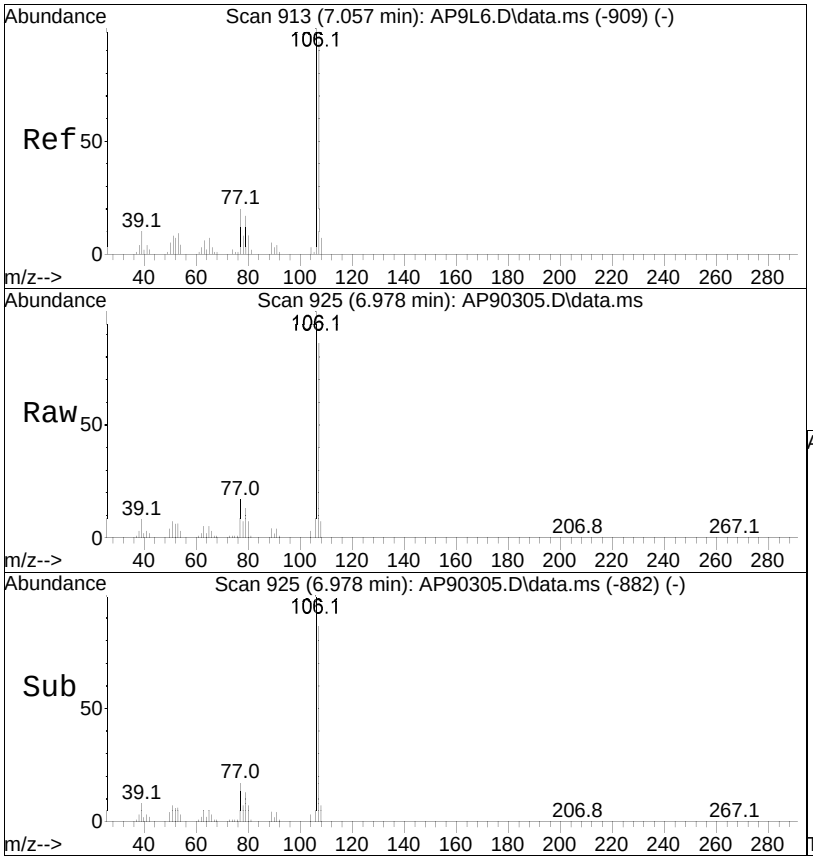


#29
Acetophenone
Concen: 4.94 ug/ml
RT: 6.878 min Scan# 908
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:105 Resp: 169956

Ion	Ratio	Lower	Upper
105	100		
120	18.1	20.5	30.7#
51	26.3	34.9	52.3#

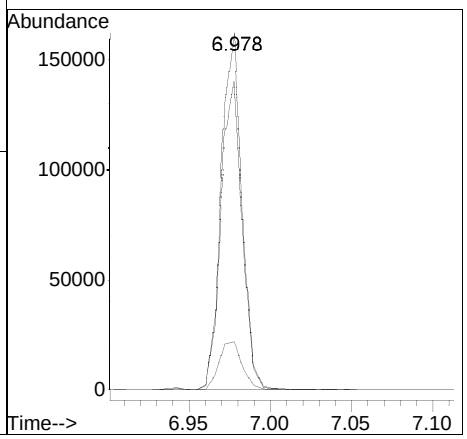


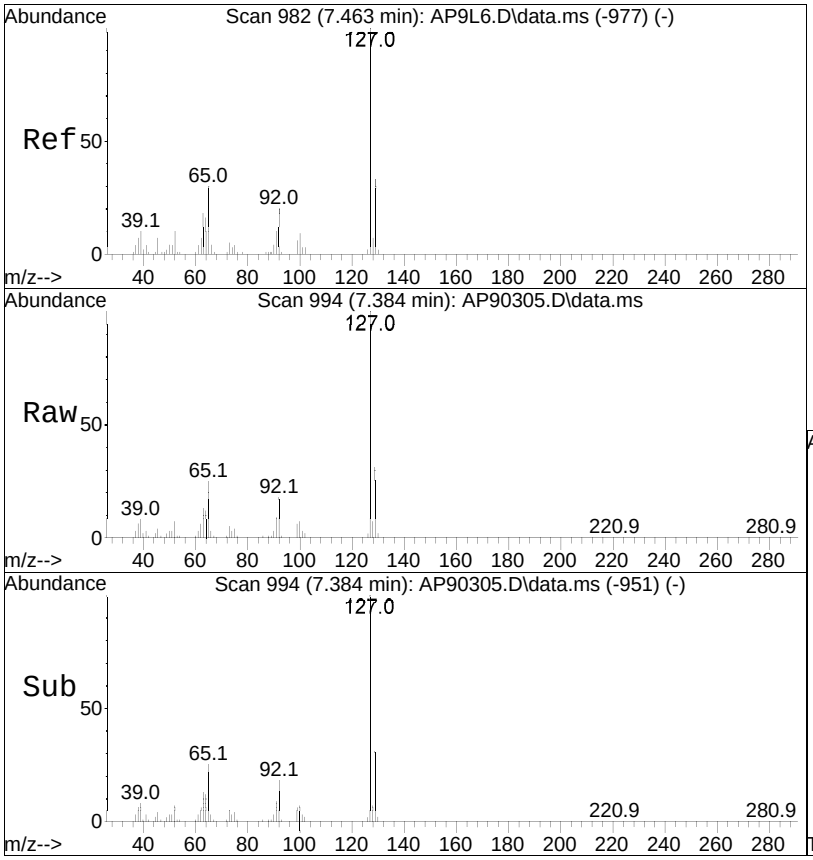


#30
m-Toluidine
Concen: 4.73 ug/ml
RT: 6.978 min Scan# 925
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:106 Resp: 143344

Ion	Ratio	Lower	Upper
106	100		
107	88.6	75.7	113.5
79	15.2	11.8	17.8

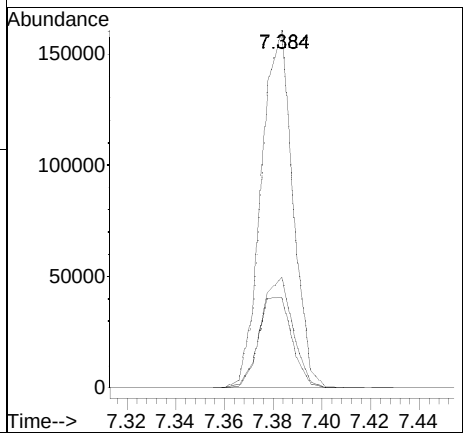


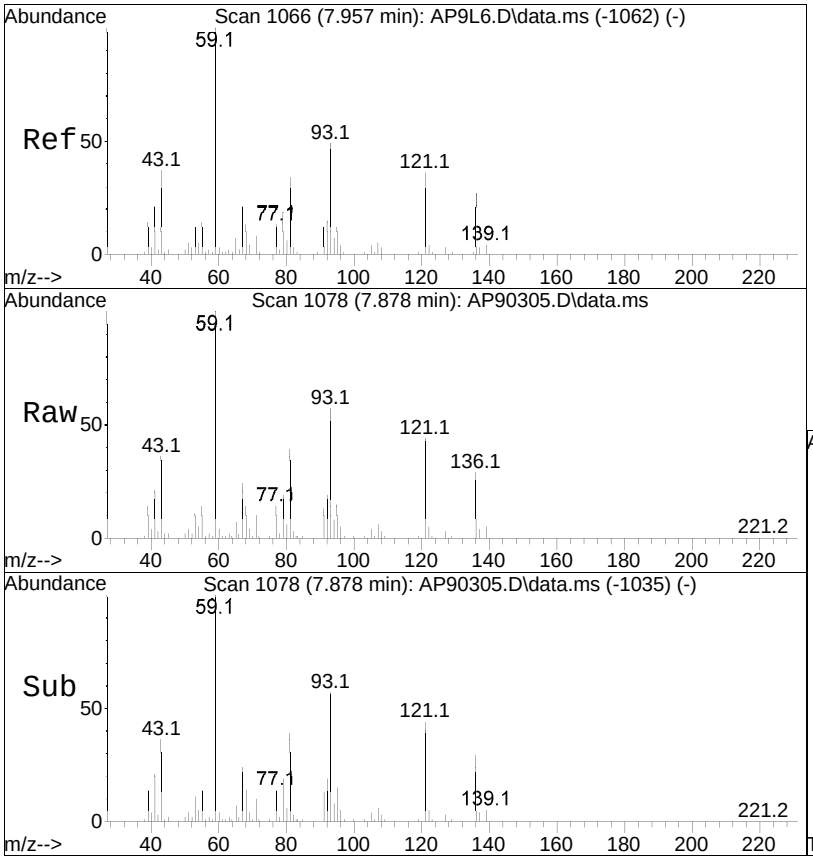


#31
2-Chloroaniline
Concen: 4.72 ug/ml
RT: 7.384 min Scan# 994
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:127 Resp: 142889

Ion	Ratio	Lower	Upper
127	100		
129	31.0	25.9	38.9
65	27.2	26.3	39.5

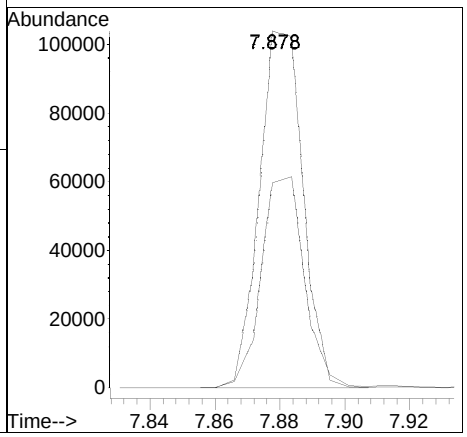


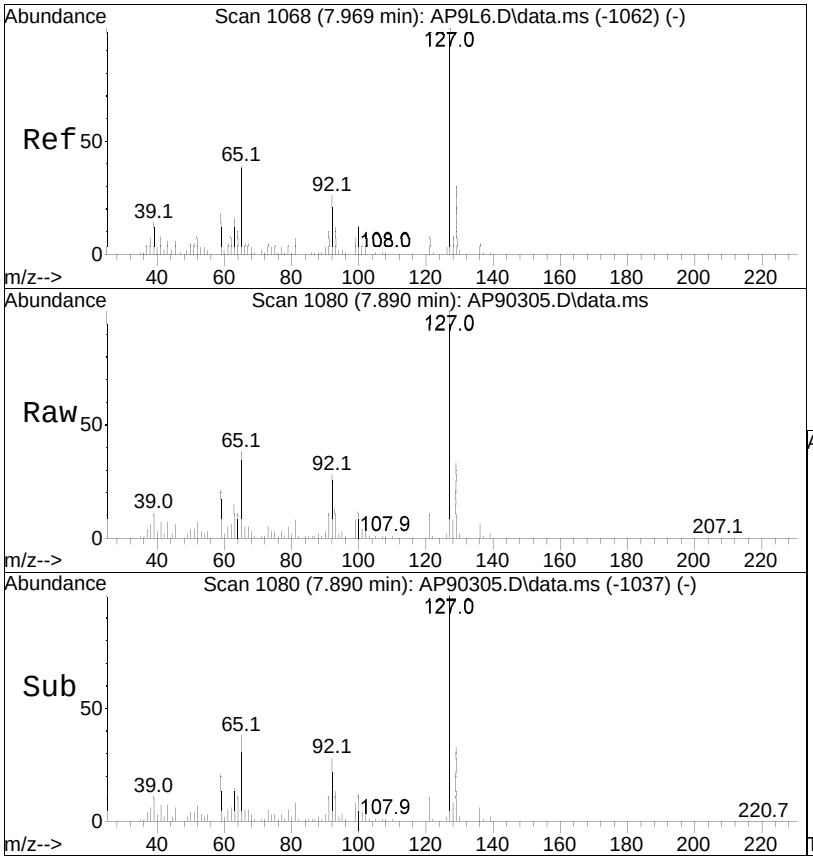


#56
a-Terpineol
Concen: 4.85 ug/ml
RT: 7.878 min Scan# 1078
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion: 59 Resp: 96401

Ion	Ratio	Lower	Upper
59	100		
93	58.7	35.6	53.4#

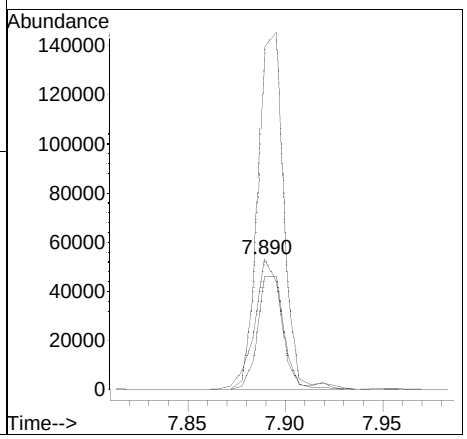


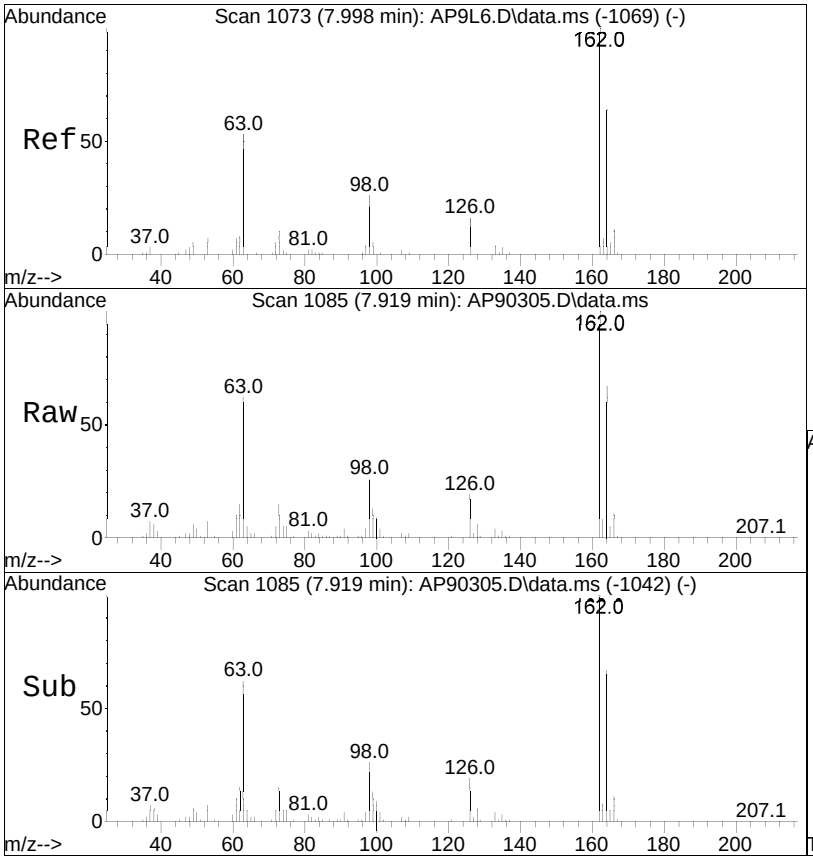


#57
3-Chloroaniline
Concen: 5.52 ug/ml
RT: 7.890 min Scan# 1080
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion: 65 Resp: 51563

Ion	Ratio	Lower	Upper
65	100		
127	257.3	243.2	364.8
129	84.3	78.8	118.2

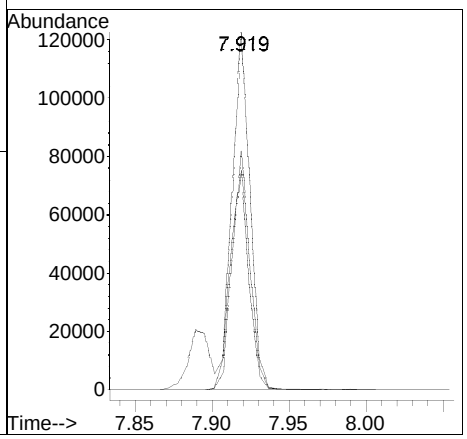


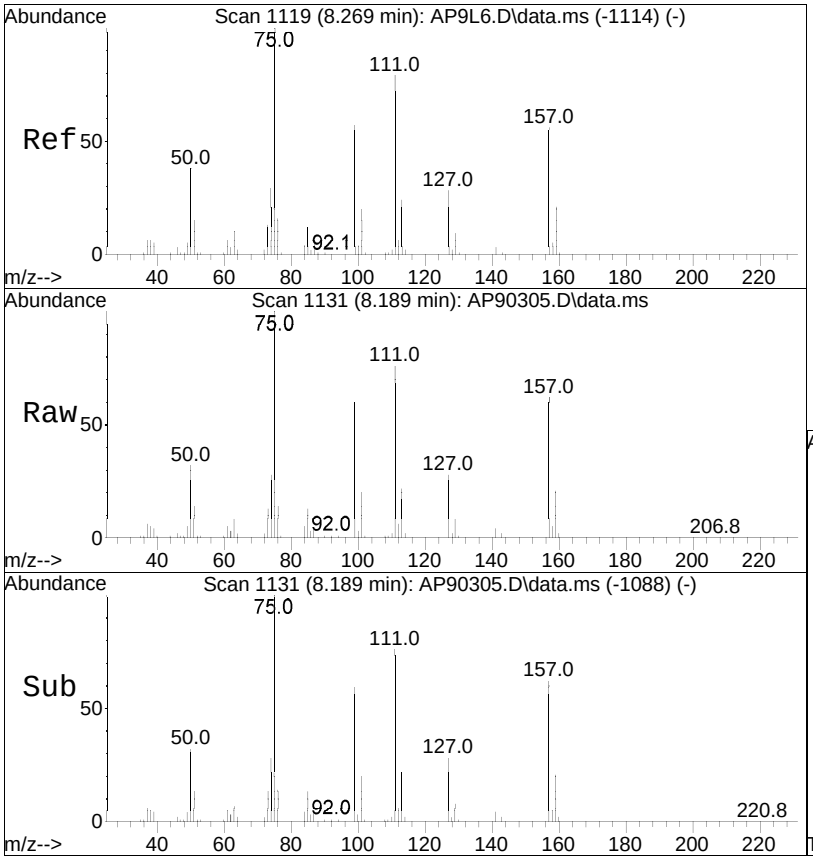


#58
2,6-Dichlorophenol
Concen: 4.66 ug/ml
RT: 7.919 min Scan# 1085
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:162 Resp: 98431

Ion	Ratio	Lower	Upper
162	100		
164	65.7	51.1	76.7
63	62.9	60.8	91.2

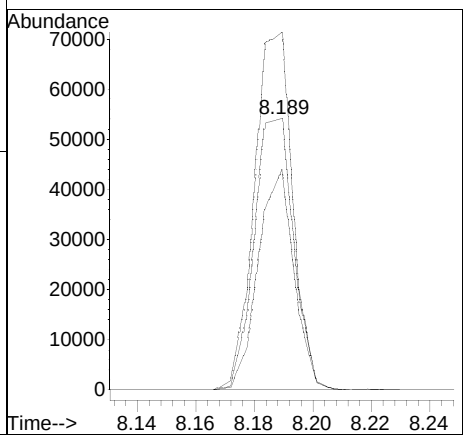


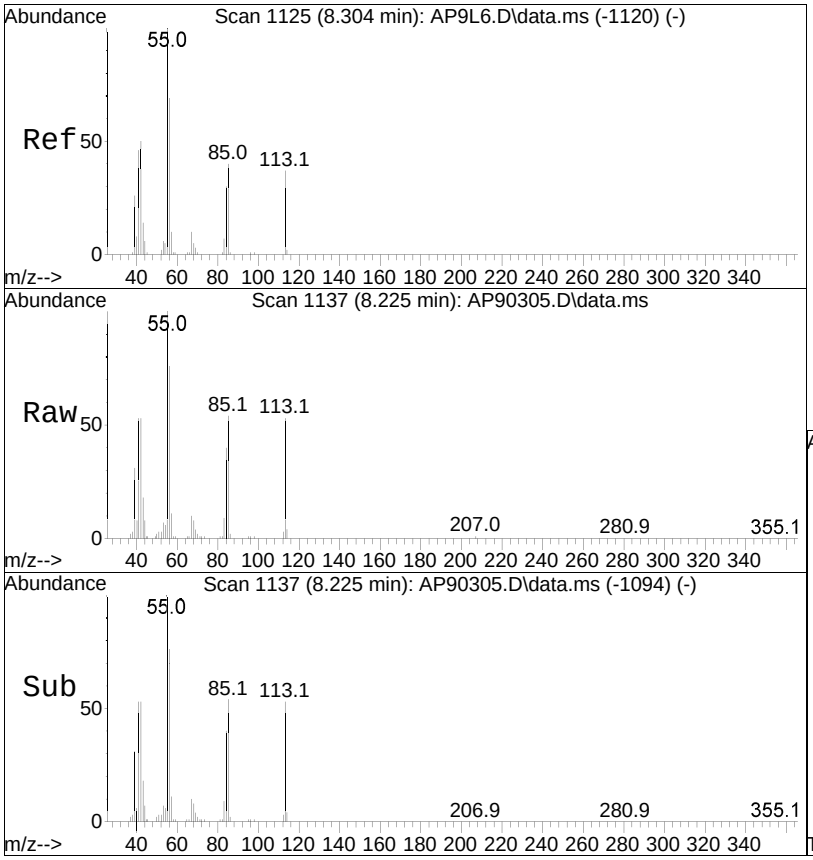


#59
1-chloro-2-nitrobenzene
Concen: 4.93 ug/ml
RT: 8.189 min Scan# 1131
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:111 Resp: 50487

Ion	Ratio	Lower	Upper
111	100		
157	73.9	0.0	0.0#
75	127.8	28.2	42.2#

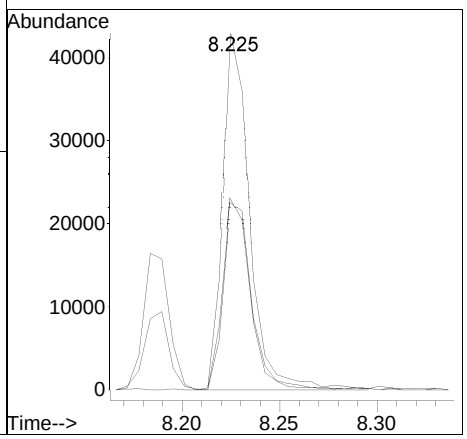


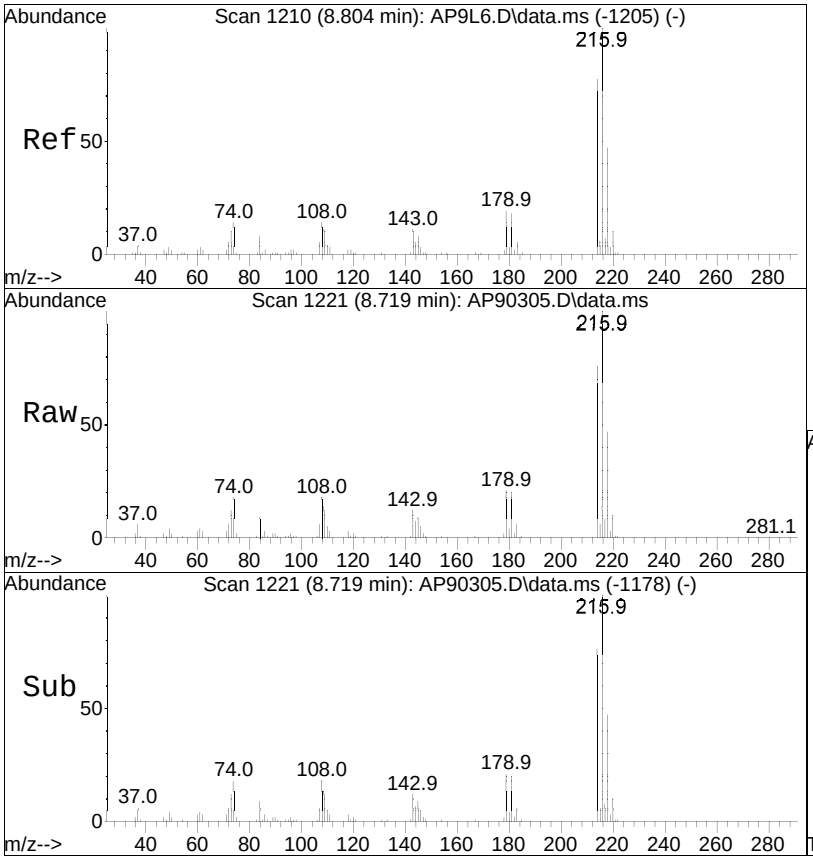


#60
Caprolactam
Concen: 3.98 ug/ml
RT: 8.225 min Scan# 1137
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion: 55 Resp: 41170

Ion	Ratio	Lower	Upper
55	100		
85	54.4	19.8	29.6#
113	55.6	29.6	44.4#

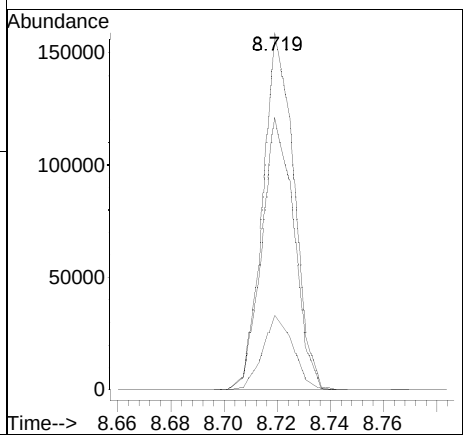


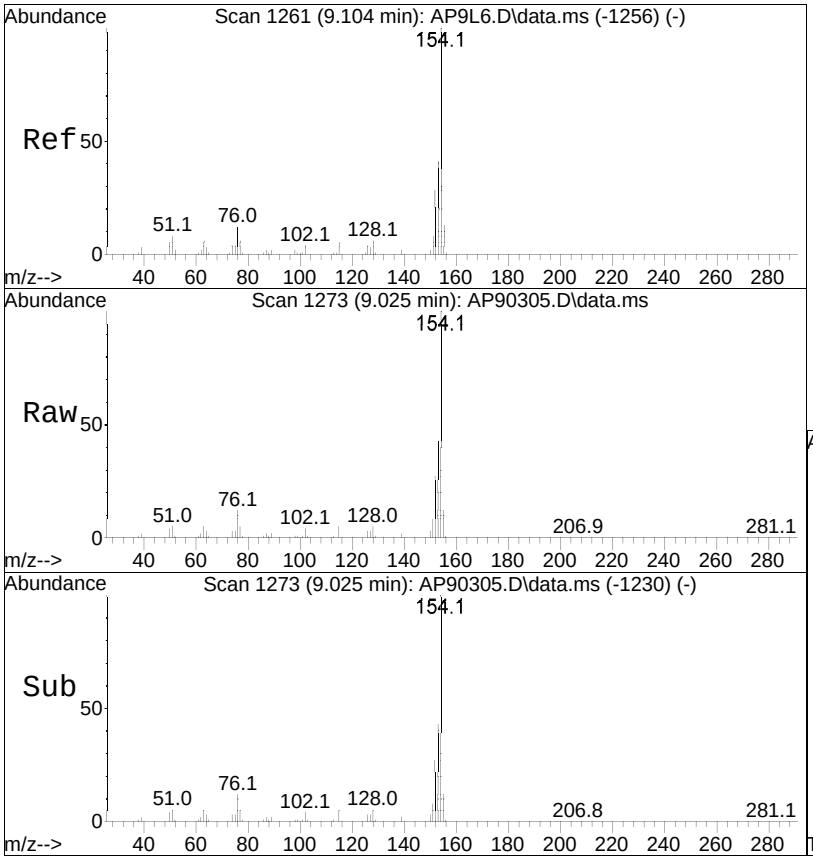


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.56 ug/ml
RT: 8.719 min Scan# 1221
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:216 Resp: 129226

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.7	95.5
179	20.5	19.0	28.6

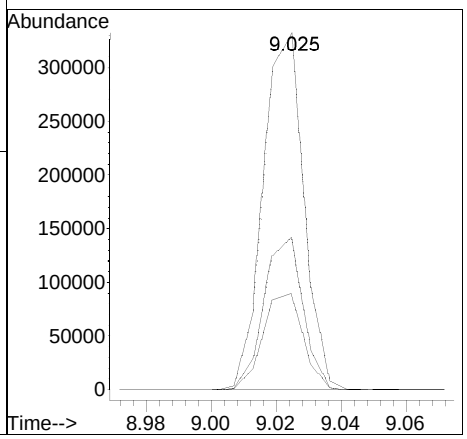


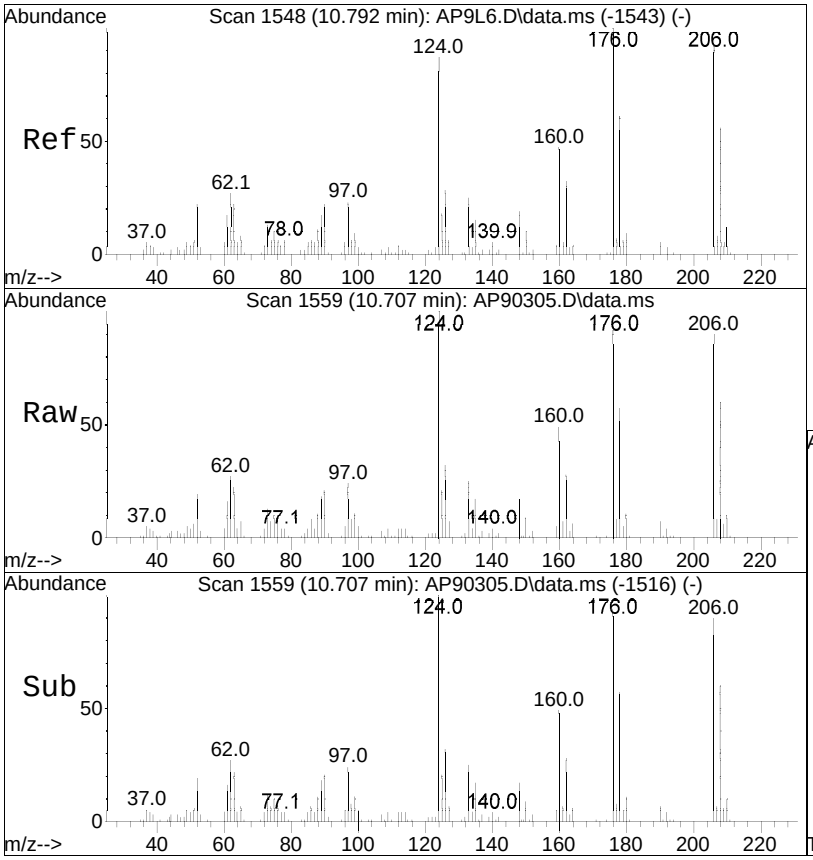


#62
Biphenyl
Concen: 4.51 ug/ml
RT: 9.025 min Scan# 1273
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:154 Resp: 288147

Ion	Ratio	Lower	Upper
154	100		
153	41.5	32.3	48.5
152	27.2	22.5	33.7

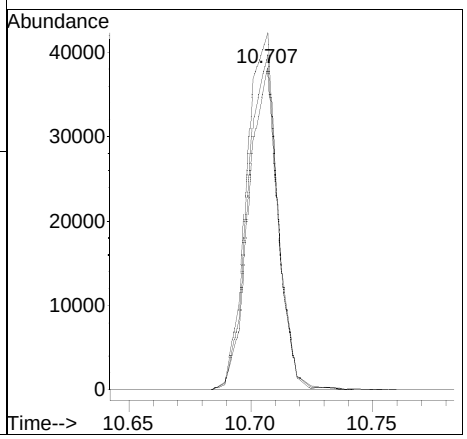


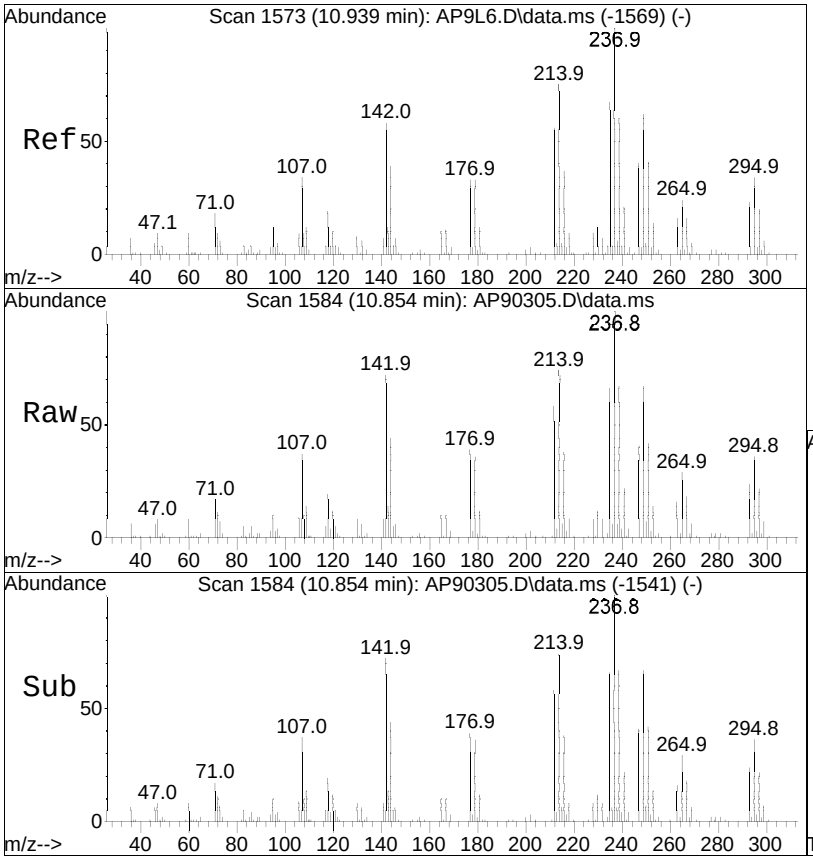


#84
Dichloran
Concen: 4.31 ug/ml
RT: 10.707 min Scan# 1559
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:206 Resp: 31946

Ion	Ratio	Lower	Upper
206	100		
176	107.4	104.6	157.0
124	116.4	130.5	195.7#

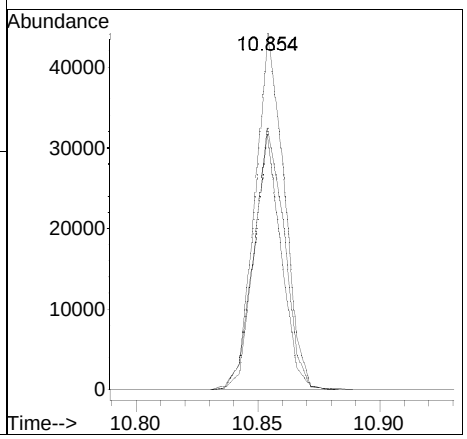


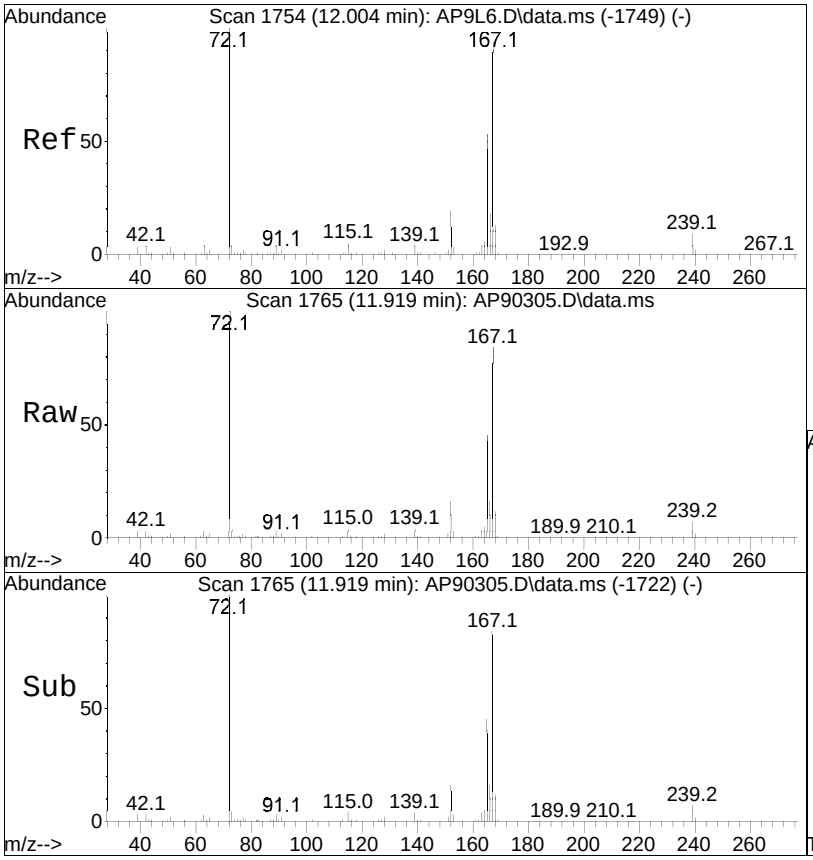


#85
Pentachloronitrobenzene
Concen: 4.64 ug/ml
RT: 10.854 min Scan# 1584
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:237 Resp: 36681

Ion	Ratio	Lower	Upper
237	100		
142	68.4	77.0	115.4#
214	74.8	58.2	87.4

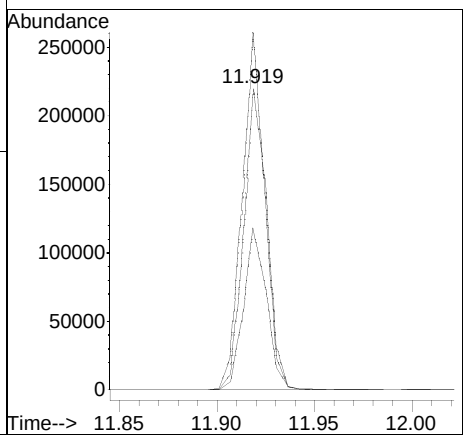




#99
Diphenamid
Concen: 4.48 ug/ml
RT: 11.919 min Scan# 1765
Delta R.T. 0.000 min
Lab File: AP90305.D
Acq: 5 Mar 2025 10:13 am

Tgt Ion:167 Resp: 180367

Ion	Ratio	Lower	Upper
167	100		
72	114.4	109.7	164.5
165	53.7	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\250305RVT\	QMethod	: FS241009SV106.m
Data File	: AP90305.D	Operator	: SV106:smz
Date Inj'd	: 3/5/2025 10:13 am	Instrument	: SV 106
Sample	: wg2036963-4,32,,AP9 11152	Quant Date	: 3/5/2025 11:11 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305RVT\
Data File : ADP0305.D
Acq On : 5 Mar 2025 10:36 am
Operator : SV106:smz
Sample : wg2036963-5,32,,ADP 11153 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 05 11:11:15 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:12:05 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
33	t	1,4-Dioxane		0.485	0.502	-3.5	117	0.00
34	T	n-Decane		1.486	1.366	8.1	99	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	93	0.00
87	T	Atrazine		0.415	0.329	20.7#	78	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	92	0.00
101	T	n-Octadecane		0.485	0.430	11.3	82	0.00
102	T	Parathion	*	5.000	4.214	15.7	88	0.00
103	T	3,3'-Dimethylbenzidine		0.821	0.574	30.1#	71	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : ADP0305.D
Acq On : 5 Mar 2025 10:36 am
Operator : SV106:smz
Sample : wg2036963-5,32,,ADP 11153 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 05 11:11:15 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:12:05 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.372	152	77182	4.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	9.572	164	165182	4.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	11.007	188	325681	4.000	ug/ml	# 0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.760	88	48401	5.167	ug/ml	90
34) n-Decane	6.272	57	131813	4.597	ug/ml#	44
87) Atrazine	10.783	200	68007	3.968	ug/ml	95
101) n-Octadecane	10.995	57	174925	4.426	ug/ml#	1
102) Parathion	11.801	109	40441	4.214	ug/ml	96
103) 3,3'-Dimethylbenzidine	13.083	212	233516	3.494	ug/ml	98

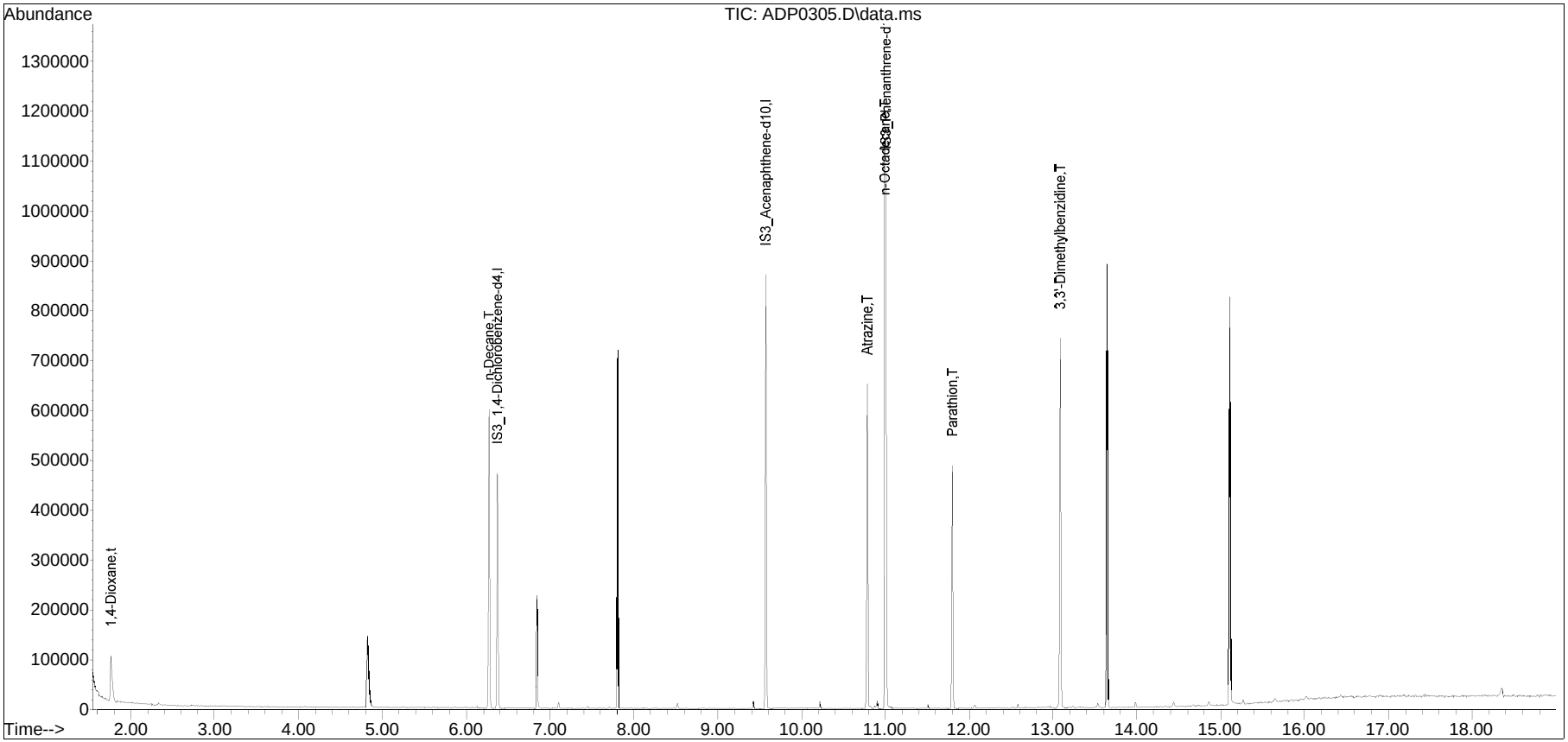
(#) = qualifier out of range (m) = manual integration (+) = signals summed

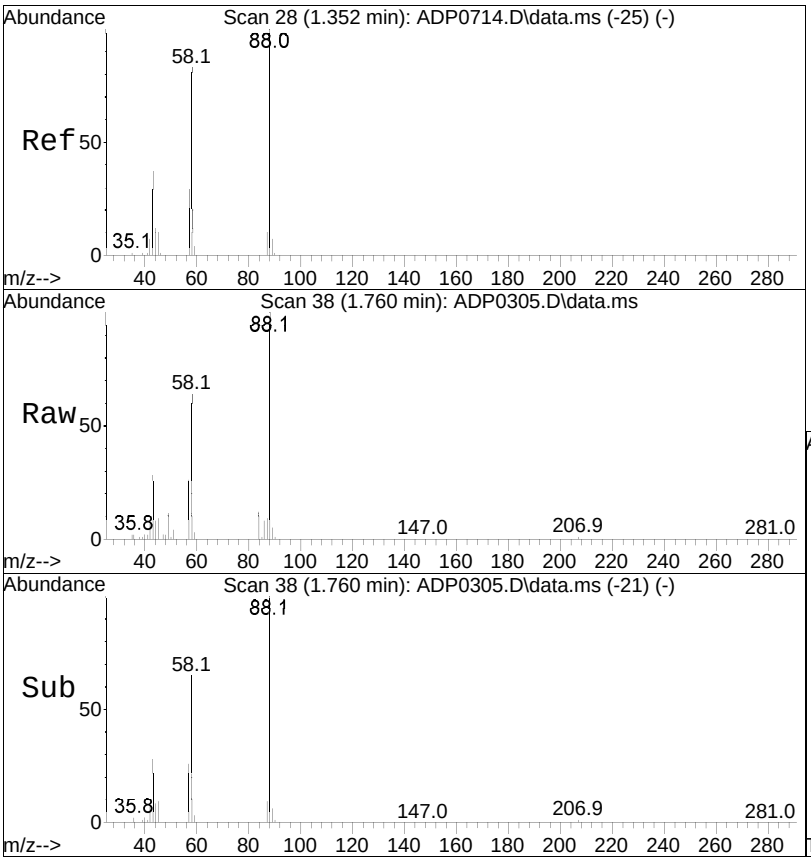
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : ADP0305.D
Acq On : 5 Mar 2025 10:36 am
Operator : SV106:smz
Sample : wg2036963-5,32,,ADP 11153 gmr0304A
Misc : wg2036963,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 05 11:11:15 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 11:12:05 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

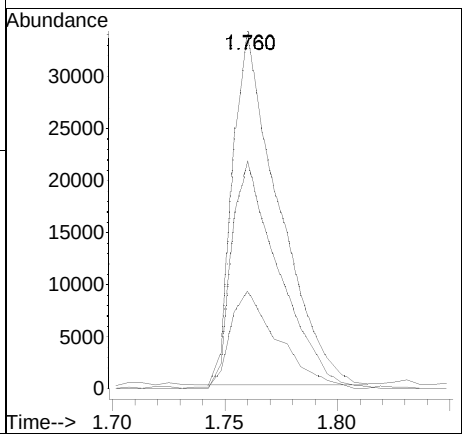


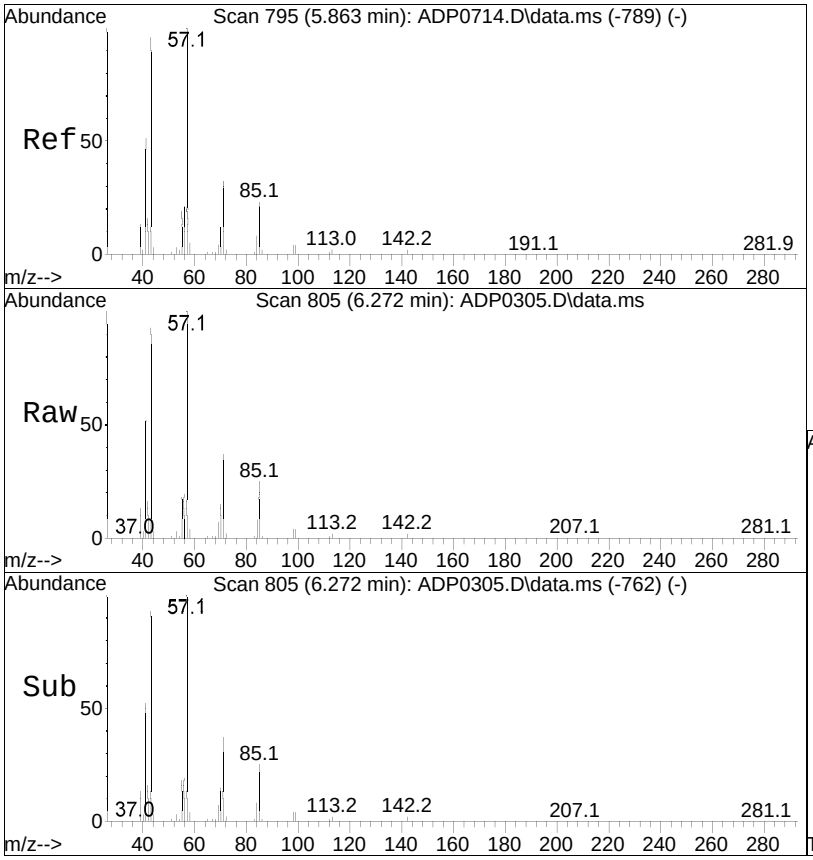


#33
1,4-Dioxane
Concen: 5.17 ug/ml
RT: 1.760 min Scan# 38
Delta R.T. 0.000 min
Lab File: ADP0305.D
Acq: 5 Mar 2025 10:36 am

Tgt Ion: 88 Resp: 48401

Ion	Ratio	Lower	Upper
88	100		
58	66.6	44.8	67.2
43	29.0	22.4	33.6

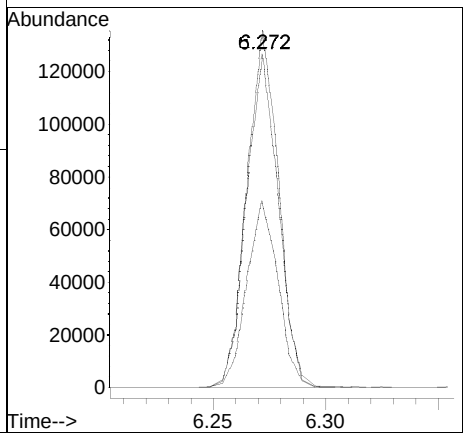


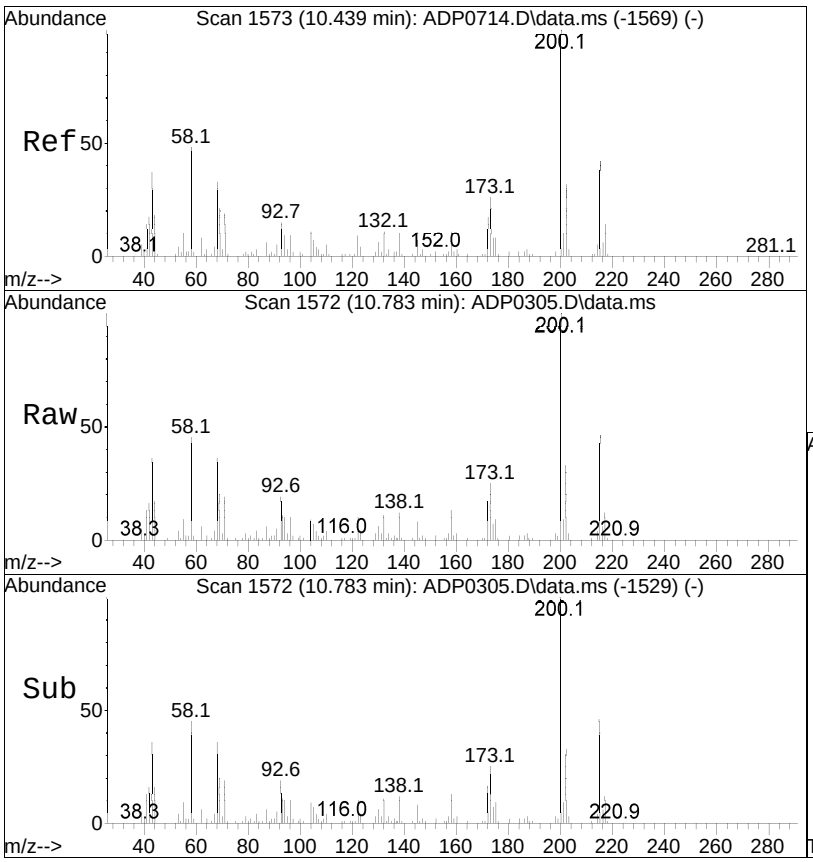


#34
n-Decane
Concen: 4.60 ug/ml
RT: 6.272 min Scan# 805
Delta R.T. 0.000 min
Lab File: ADP0305.D
Acq: 5 Mar 2025 10:36 am

Tgt Ion: 57 Resp: 131813

Ion	Ratio	Lower	Upper
57	100		
43	93.0	0.2	0.2#
41	51.8	0.2	0.2#

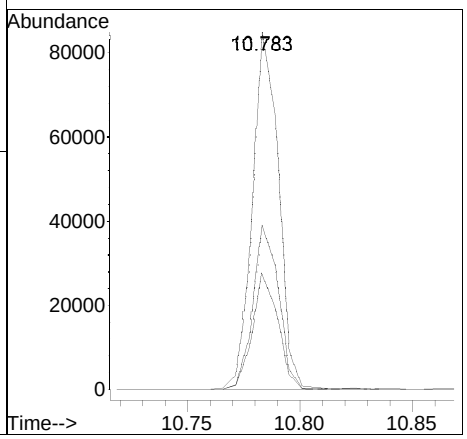


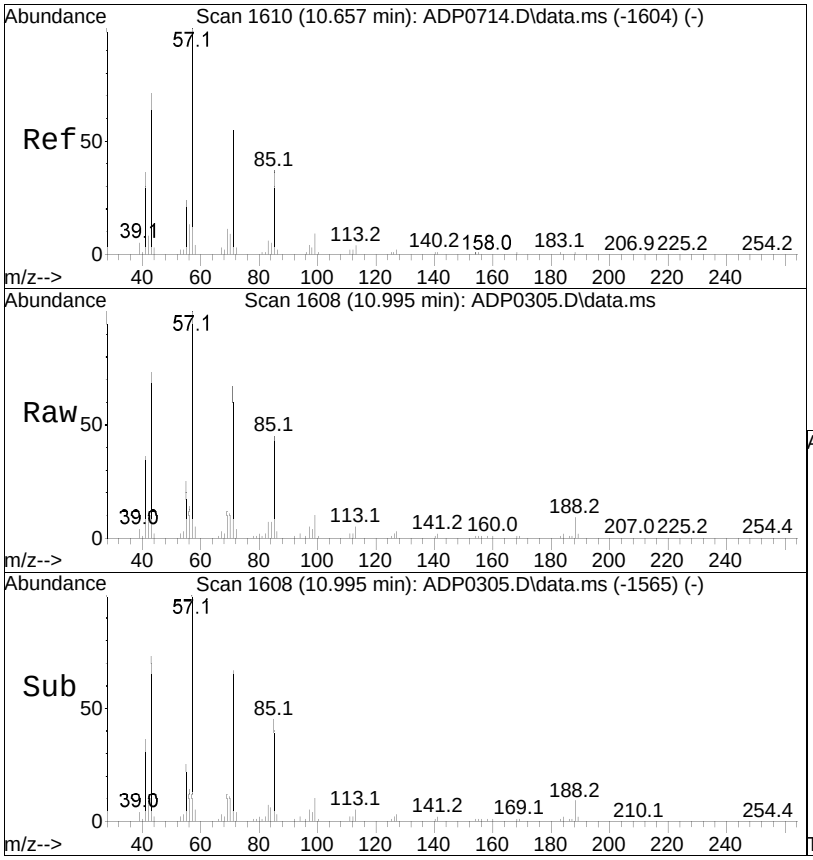


#87
Atrazine
Concen: 3.97 ug/ml
RT: 10.783 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADP0305.D
Acq: 5 Mar 2025 10:36 am

Tgt Ion:200 Resp: 68007

Ion	Ratio	Lower	Upper
200	100		
202	32.0	25.8	38.6
215	45.3	40.2	60.4

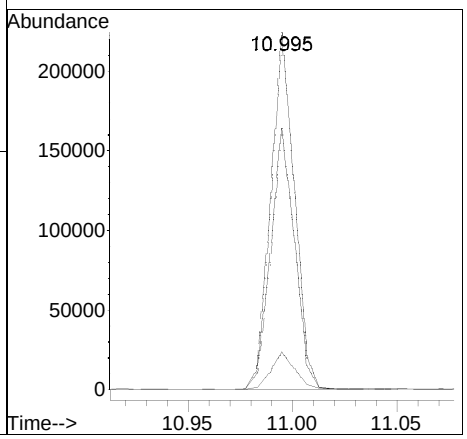


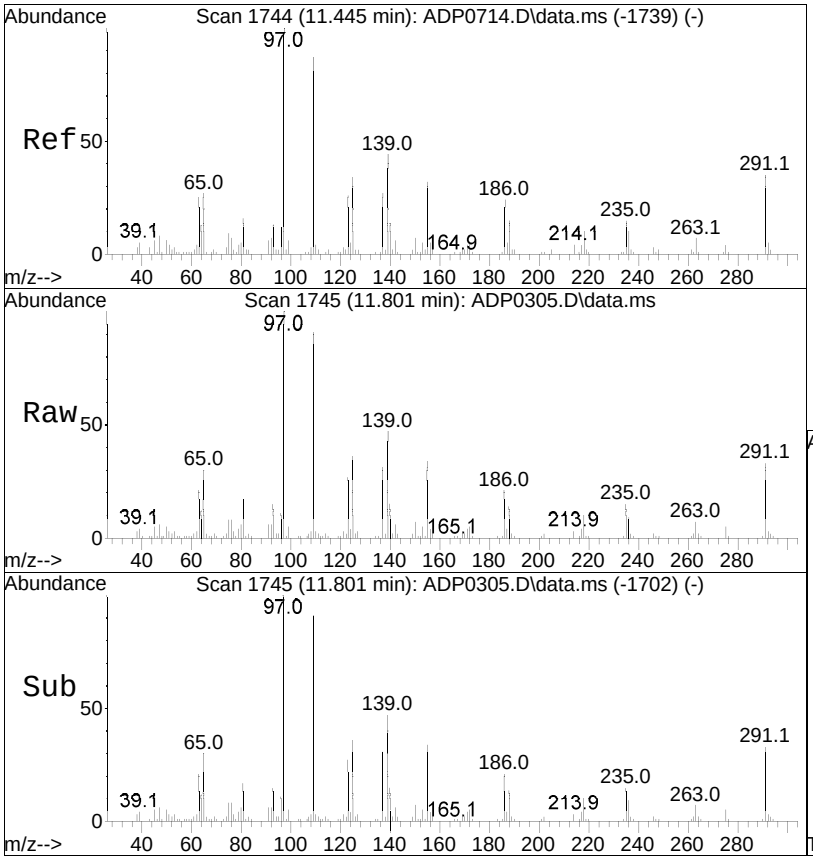


#101
n-Octadecane
Concen: 4.43 ug/ml
RT: 10.995 min Scan# 1608
Delta R.T. 0.000 min
Lab File: ADP0305.D
Acq: 5 Mar 2025 10:36 am

Tgt Ion: 57 Resp: 174925

Ion	Ratio	Lower	Upper
57	100		
43	73.9	9.0	13.6#
70	10.7	0.2	0.2#

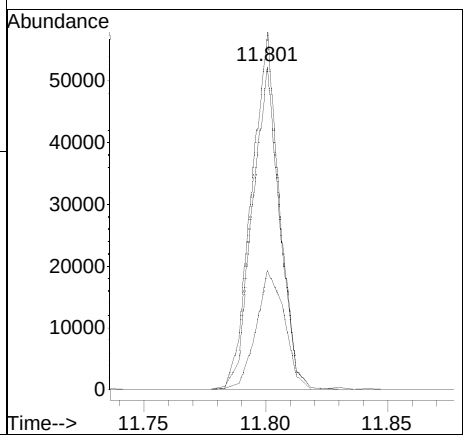


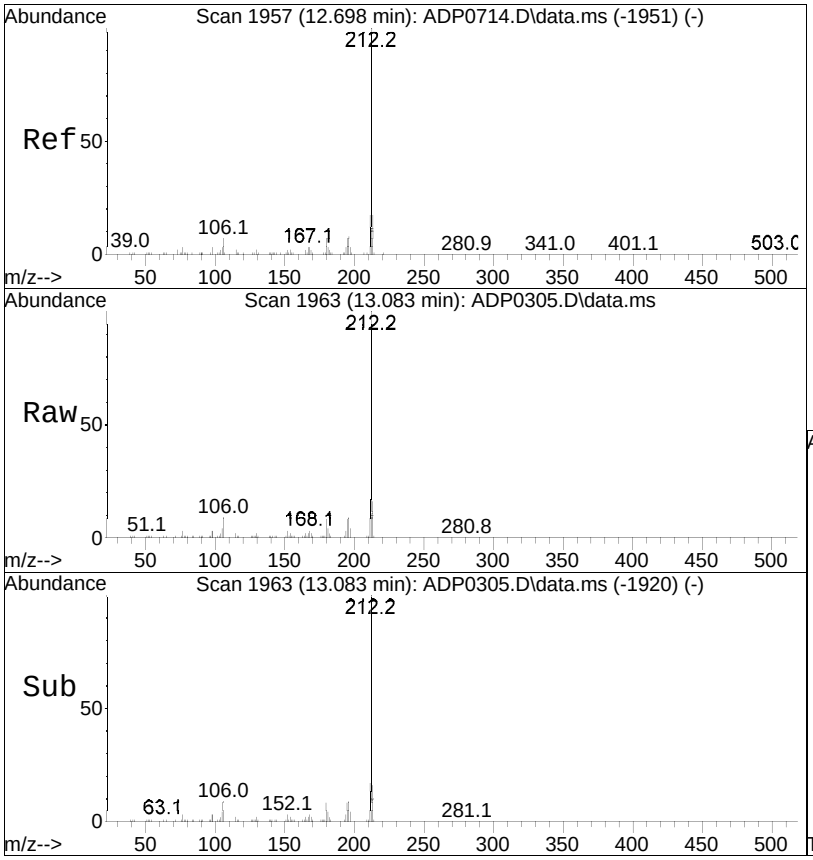


#102
Parathion
Concen: 4.21 ug/ml
RT: 11.801 min Scan# 1745
Delta R.T. 0.000 min
Lab File: ADP0305.D
Acq: 5 Mar 2025 10:36 am

Tgt Ion:109 Resp: 40441

Ion	Ratio	Lower	Upper
109	100		
97	112.3	87.4	131.2
291	38.4	34.2	51.2

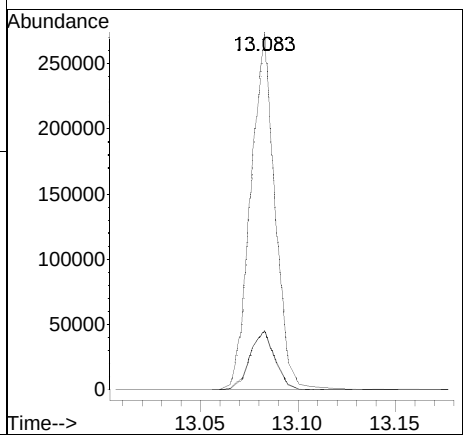




#103
3,3'-Dimethylbenzidine
Concen: 3.49 ug/ml
RT: 13.083 min Scan# 1963
Delta R.T. 0.000 min
Lab File: ADP0305.D
Acq: 5 Mar 2025 10:36 am

Tgt Ion:212 Resp: 233516

Ion	Ratio	Lower	Upper
212	100		
211	17.4	12.9	19.3
213	16.8	13.2	19.8



Manual Integration Report

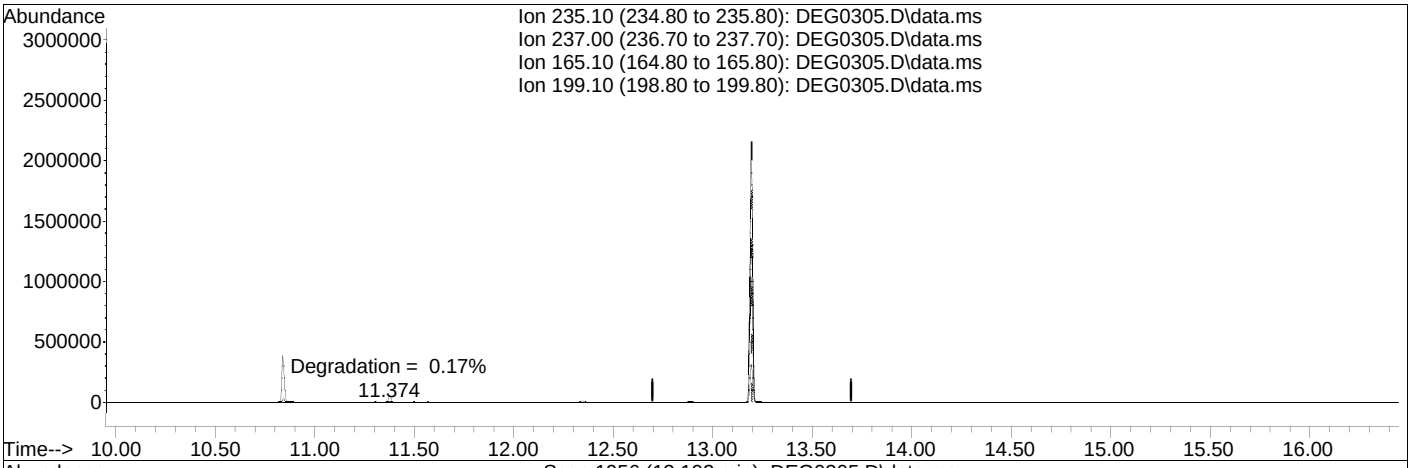
Data Path	: I:\8270\SV106\250305RVT\	QMethod	: FS241009SV106.m
Data File	: ADP0305.D	Operator	: SV106:smz
Date Inj'd	: 3/5/2025 10:36 am	Instrument	: SV 106
Sample	: wg2036963-5,32,,ADP 11153	Quant Date	: 3/5/2025 11:12 am

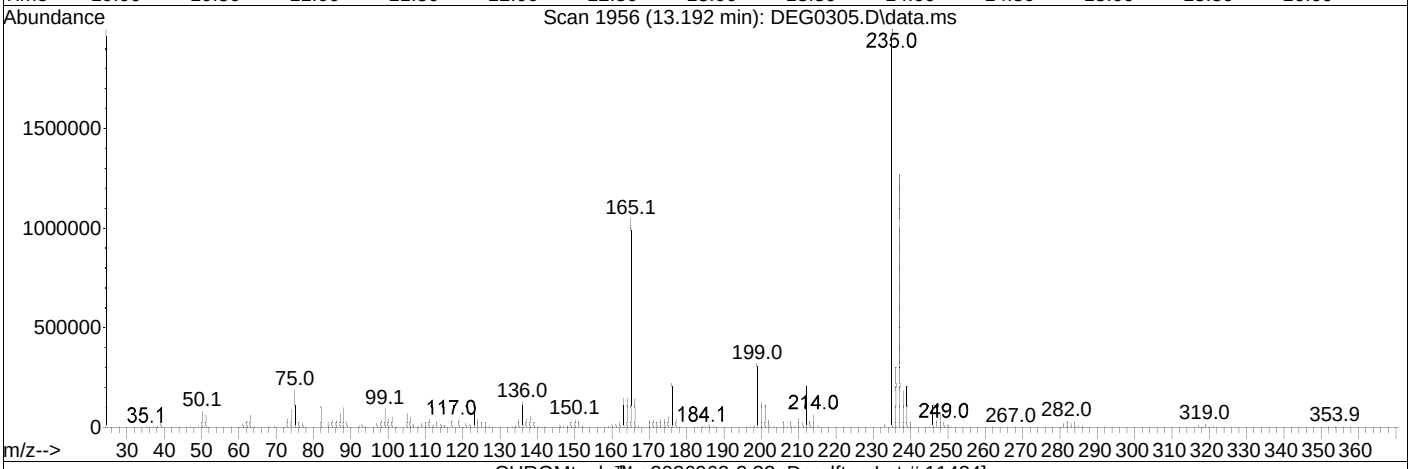
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250305RVT\
Data File : DEG0305.D
Acq On : 5 Mar 2025 9:24 am
Operator : SV106:smz
Sample : wg2036963-2,32,,Degdftpp Lot # 11424
Misc : wg2036963,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 05 09:49:41 2025
Quant Method : I:\8270\SV106\250305RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 04 20:57:17 2025
Response via : Initial Calibration





CHROMtools™ [wg2036963-2,32,,Degdftpp Lot # 11424]

(6) DDT (T)

13.192min (-0.006) 305.44

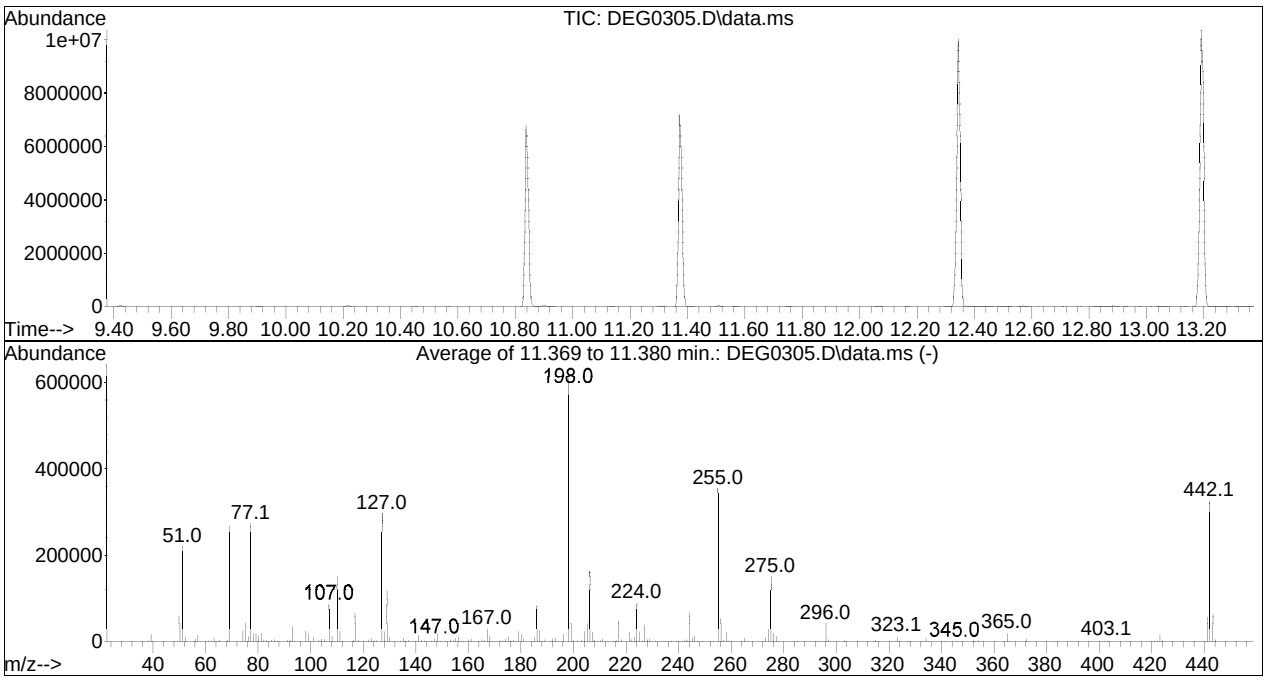
response 1861896

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.98
165.10	44.50	50.37
199.10	14.80	15.56

Data Path : I:\8270\SV106\250305RVT\
Data File : DEG0305.D
Acq On : 5 Mar 2025 9:24 am
Operator : SV106:gmr
Sample : WG2036963-1,32,,Degdftpp Lot # 11424
Misc : WG2036963,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 05 11:03:54 2025



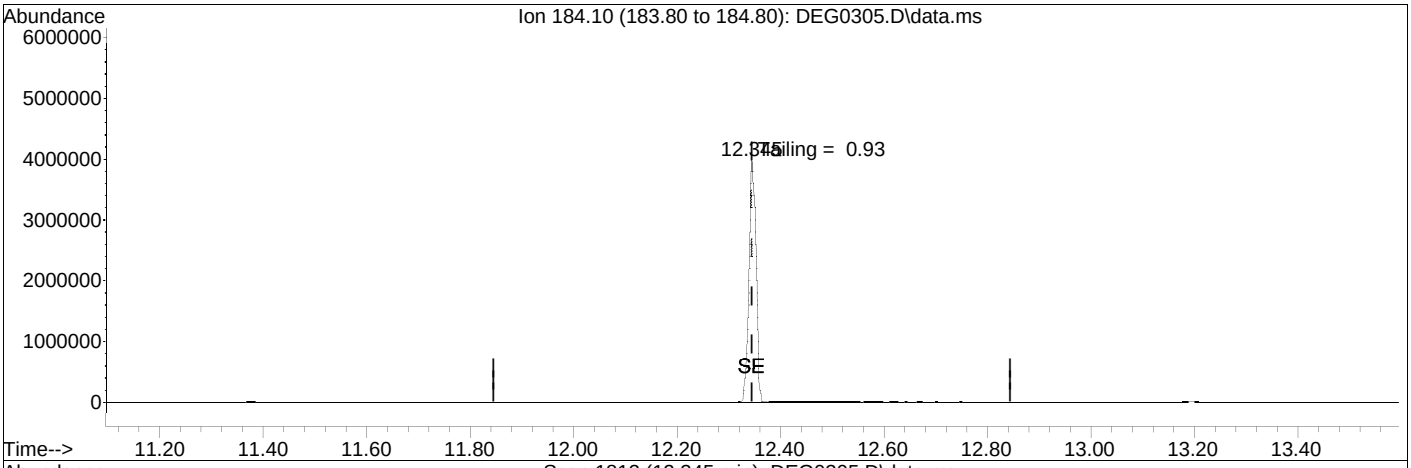
Spectrum Information: Average of 11.369 to 11.380 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	219483	PASS
68	69	0.00	2	1.7	4559	PASS
69	69	100	100	100.0	265920	PASS
70	69	0.00	2	0.5	1250	PASS
127	198	10	80	48.3	295659	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	611947	PASS
199	198	5	9	6.8	41605	PASS
275	198	10	60	24.4	149061	PASS
365	198	1	100	3.0	18625	PASS
441	442	0.01	24	16.9	54987	PASS
442	198	50	100	53.1	324861	PASS
443	442	15	24	19.4	62953	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250305RVT\
Data File : DEG0305.D
Acq On : 5 Mar 2025 9:24 am
Operator : SV106:smz
Sample : wg2036963-6,32,,Degdftpp Lot # 11424
Misc : wg2036963,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 05 09:49:41 2025
Quant Method : I:\8270\SV106\250305RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 04 20:57:17 2025
Response via : Initial Calibration



CHROMtools [wg2036963-6,32,,Degdftpp Lot # 11424]

(3) Benzidine (T)

12.345min (-0.000) 349.59

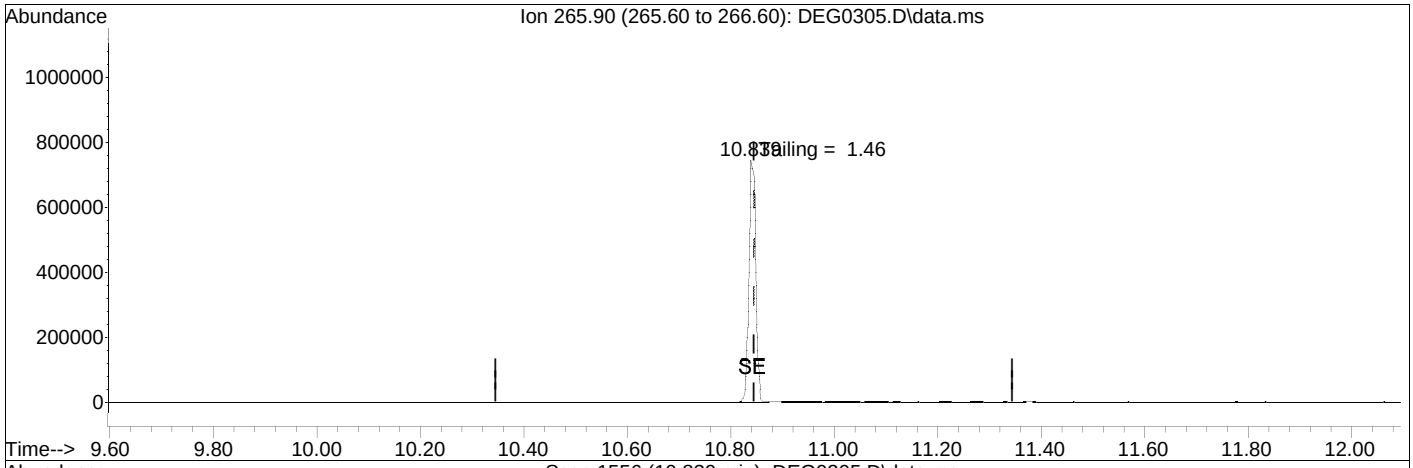
response 3558849

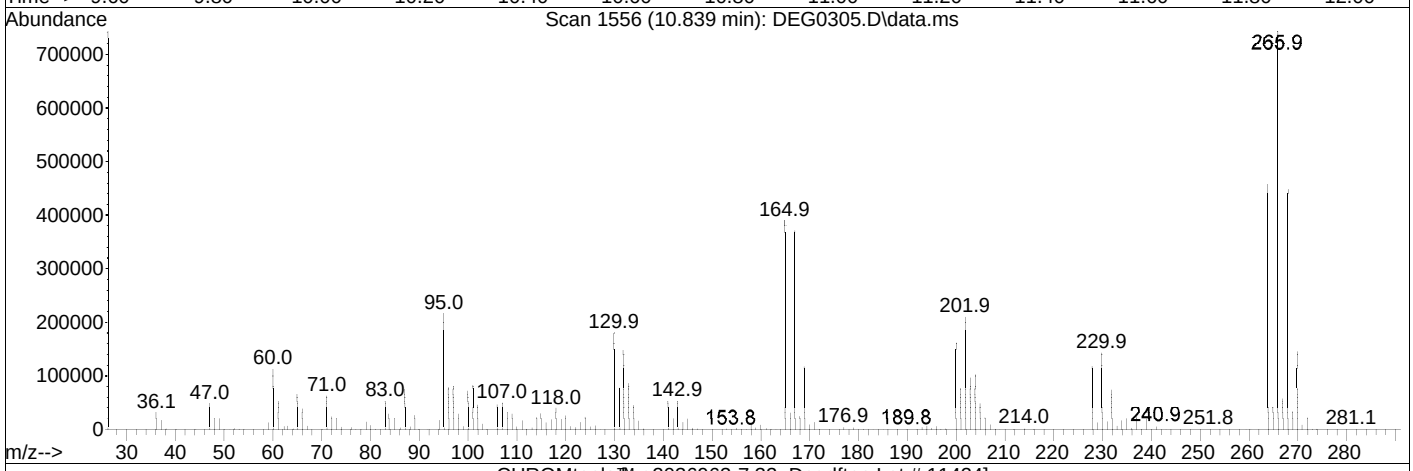
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250305RVT\
Data File : DEG0305.D
Acq On : 5 Mar 2025 9:24 am
Operator : SV106:smz
Sample : wg2036963-7,32,,Degdftpp Lot # 11424
Misc : wg2036963,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 05 09:49:41 2025
Quant Method : I:\8270\SV106\250305RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 04 20:57:17 2025
Response via : Initial Calibration





CHROMtools™ [wg2036963-7,32,,Degdftpp Lot # 11424]

(1) Pentachlorophenol (T)

10.839min (-0.006) 316.30

response 664339

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 09:47		
Lab File ID	: ABN0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
n-Nitrosodimethylamine	0.76	0.83	-	-9.2	20	125	0
Pyridine	1.219	1.027	-	15.8	20	96	0
2-Fluorophenol	1.245	1.153	-	7.4	20	107	0
Aniline	1.771	1.903	-	-7.5	20	119	0
2-Chlorophenol	1.365	1.332	-	2.4	20	109	0
Phenol-d6	1.498	1.462	-	2.4	20	113	0
Phenol	1.555	1.592	-	-2.4	20	115	0
Bis(2-chloroethyl)ether	1.28	1.26	-	1.6	20	111	0
1,3-Dichlorobenzene	1.669	1.535	-	8	20	107	0
1,4-Dichlorobenzene	1.7	1.552	-	8.7	20	107	0
1,2-Dichlorobenzene	1.63	1.486	-	8.8	20	105	0
Benzyl alcohol	1.06	1.092	-	-3	20	117	0
Bis(2-chloroisopropyl)ethe	2.014	1.668	-	17.2	20	96	0
2-Methylphenol	1.123	1.176	-	-4.7	20	117	0
Hexachloroethane	0.614	0.593	-	3.4	20	112	0
n-Nitrosodi-n-propylamine	0.94	0.951	-	-1.2	20	113	0
3-Methylphenol/4-Methylphe	1.225	1.251	-	-2.1	20	114	0
Nitrobenzene-d5	1.359	1.469	-	-8.1	20	122	0
Nitrobenzene	1.389	1.507	-	-8.5	20	124	0
Isophorone	2.416	2.514	-	-4.1	20	115	0
2-Nitrophenol	0.713	0.667	-	6.5	20	101	0
2,4-Dimethylphenol	1.119	1.366	-	-22.1*	20	138	0
Bis(2-chloroethoxy)methane	1.614	1.6	-	0.9	20	111	0
2,4-Dichlorophenol	1.25	1.159	-	7.3	20	101	0
1,2,4-Trichlorobenzene	1.449	1.361	-	6.1	20	110	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	1.129	1.027	-	9	20	106	0
Benzoic Acid	5	3.598	-	28*	20	71	0
4-Chloroaniline	0.127	0.137	-	-7.9	20	119	0
Hexachlorobutadiene	0.239	0.233	-	2.5	20	109	0
p-Chloro-m-cresol	0.296	0.303	-	-2.4	20	111	0
2-Methylnaphthalene	0.752	0.62	-	17.6	20	93	0
1-Methylnaphthalene	0.243	0.246	-	-1.2	20	116	0
Hexachlorocyclopentadiene	0.262	0.305	-	-16.4	20	131	0
2,4,6-Trichlorophenol	0.275	0.244	-	11.3	20	96	0
2,4,5-Trichlorophenol	0.285	0.246	-	13.7	20	96	0
2-Fluorobiphenyl	0.926	0.787	-	15	20	96	0
2-Chloronaphthalene	0.785	0.666	-	15.2	20	97	0
2-Nitroaniline	0.223	0.194	-	13	20	93	0
1,4-Dinitrobenzene	0.114	0.104	-	8.8	20	95	0
1,3-Dinitrobenzene	0.125	0.112	-	10.4	20	93	0
Dimethyl phthalate	0.915	0.78	-	14.8	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 09:47		
Lab File ID	: ABN0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.17	1.063	-	9.1	20	101	0
2,6-Dinitrotoluene	0.186	0.167	-	10.2	20	92	0
1,2-Dinitrobenzene	0.081	0.076	-	6.2	20	99	0
IS1_Acenaphthene-d10	1	1	-	0	20	103	0
3-Nitroaniline	0.323	0.292	-	9.6	20	90	0
Acenaphthene	1.157	1.059	-	8.5	20	99	0
2,4-Dinitrophenol	5	4.02	-	19.6	20	75	0
Dibenzofuran	1.872	1.685	-	10	20	99	0
2,4-Dinitrotoluene	0.419	0.411	-	1.9	20	97	0
4-Nitrophenol	0.239	0.253	-	-5.9	20	102	0
2,3,5,6-Tetrachlorophenol	0.39	0.387	-	0.8	20	99	0
2,3,4,6-Tetrachlorophenol	0.385	0.365	-	5.2	20	94	0
Diethyl phthalate	1.518	1.319	-	13.1	20	92	0
Fluorene	1.462	1.336	-	8.6	20	97	0
4-Chlorophenyl phenyl ethe	0.75	0.667	-	11.1	20	96	0
4-Nitroaniline	0.329	0.3	-	8.8	20	93	0
4,6-Dinitro-o-cresol	5	4.269	-	14.6	20	94	0
NDPA/DPA	1.261	1.095	-	13.2	20	90	0
Azobenzene	1.232	1.324	-	-7.5	20	111	0
2,4,6-Tribromophenol	0.226	0.197	-	12.8	20	89	0
4-Bromophenyl phenyl ether	0.465	0.406	-	12.7	20	92	0
Hexachlorobenzene	0.526	0.441	-	16.2	20	92	0
Pentachlorophenol	0.319	0.281	-	11.9	20	89	0
IS1_Phenanthrene-d10	1	1	-	0	20	99	0
Phenanthrene	1.174	1.058	-	9.9	20	93	0
Anthracene	1.17	1.066	-	8.9	20	94	0
Carbazole	1.054	0.95	-	9.9	20	90	0
Di-n-butylphthalate	1.319	1.131	-	14.3	20	83	0
Fluoranthene	1.353	1.174	-	13.2	20	86	0
Benzidine	0.776	0.722	-	7	20	85	0
Pyrene	1.428	1.247	-	12.7	20	87	0
4-Terphenyl-d14	1.073	0.878	-	18.2	20	82	0
Butyl benzyl phthalate	0.555	0.478	-	13.9	20	79	0
IS1_Chrysene-d12	1	1	-	0	20	84	0
Benzo(a)anthracene	1.379	1.269	-	8	20	81	0
3,3'-Dichlorobenzidine	0.453	0.452	-	0.2	20	81	0
Chrysene	1.324	1.206	-	8.9	20	80	0
Bis(2-ethylhexyl)phthalate	0.828	0.801	-	3.3	20	75	0
Di-n-octylphthalate	1.373	1.297	-	5.5	20	72	0
Benzo(b)fluoranthene	1.331	1.241	-	6.8	20	81	0
Benzo(k)fluoranthene	1.24	1.162	-	6.3	20	78	0
Benzo(a)pyrene	1.155	1.11	-	3.9	20	80	0
IS1_Perylene-d12	1	1	-	0	20	82	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 09:47		
Lab File ID	: ABN0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.213	1.08	-	11	20	73	0
Dibenzo(a,h)anthracene	1.153	1.089	-	5.6	20	77	0
Benzo(ghi)perylene	1.08	1.078	-	0.2	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 10:13		
Lab File ID	: AP90305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-4	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	110	0
Benzaldehyde	0.948	0.858	-	9.5	20	97	0
Acetophenone	1.829	1.807	-	1.2	20	110	0
m-Toluidine	1.612	1.524	-	5.5	20	103	0
2-Chloroaniline	1.609	1.519	-	5.6	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	108	0
a-Terpineol	0.282	0.274	-	2.8	20	105	0
3-Chloroaniline	0.132	0.146	-	-10.6	20	113	0
2,6-Dichlorophenol	0.3	0.279	-	7	20	97	0
1-chloro-2-nitrobenzene	0.145	0.143	-	1.4	20	106	0
Caprolactam	0.147	0.117	-	20.4*	20	84	0
1,2,4,5-Tetrachlorobenzene	0.402	0.367	-	8.7	20	99	0
Biphenyl	0.907	0.818	-	9.8	20	95	0
IS2_Acenaphthene-d10	1	1	-	0	20	106	0
Dichloran	0.181	0.156	-	13.8	20	93	0
Pentachloronitrobenzene	0.193	0.179	-	7.3	20	96	0
IS2_Phenanthrene-d10	1	1	-	0	20	98	0
Diphenamid	0.505	0.453	-	10.3	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/05/25 10:36		
Lab File ID	: ADP0305	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2036963-5	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
1,4-Dioxane	0.485	0.502	-	-3.5	20	117	0
n-Decane	1.486	1.366	-	8.1	20	99	0
IS3_Acenaphthene-d10	1	1	-	0	20	93	0
Atrazine	0.415	0.329	-	20.7*	20	78	0
IS3_Phenanthrene-d10	1	1	-	0	20	92	0
n-Octadecane	0.485	0.43	-	11.3	20	82	0
Parathion	5	4.214	-	15.7	20	88	0
3,3'-Dimethylbenzidine	0.821	0.574	-	30.1*	20	71	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 00:49		
Lab File ID	: ABN0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	105	0
n-Nitrosodimethylamine	0.76	0.822	-	-8.2	20	115	0
Pyridine	1.219	1.309	-	-7.4	20	114	0
2-Fluorophenol	1.245	1.168	-	6.2	20	100	0
Aniline	1.771	1.759	-	0.7	20	102	0
2-Chlorophenol	1.365	1.305	-	4.4	20	99	0
Phenol-d6	1.498	1.508	-	-0.7	20	108	0
Phenol	1.555	1.592	-	-2.4	20	107	0
Bis(2-chloroethyl)ether	1.28	1.222	-	4.5	20	100	0
1,3-Dichlorobenzene	1.669	1.521	-	8.9	20	98	0
1,4-Dichlorobenzene	1.7	1.543	-	9.2	20	98	0
1,2-Dichlorobenzene	1.63	1.474	-	9.6	20	97	0
Benzyl alcohol	1.06	1.089	-	-2.7	20	108	0
Bis(2-chloroisopropyl)ethe	2.014	1.679	-	16.6	20	90	0
2-Methylphenol	1.123	1.065	-	5.2	20	98	0
Hexachloroethane	0.614	0.614	-	0	20	108	0
n-Nitrosodi-n-propylamine	0.94	0.941	-	-0.1	20	103	0
3-Methylphenol/4-Methylphe	1.225	1.147	-	6.4	20	97	0
Nitrobenzene-d5	1.359	1.428	-	-5.1	20	110	0
Nitrobenzene	1.389	1.465	-	-5.5	20	112	0
Isophorone	2.416	2.571	-	-6.4	20	109	0
2-Nitrophenol	0.713	0.669	-	6.2	20	94	0
2,4-Dimethylphenol	1.119	0.562	-	49.8*	20	53	0
Bis(2-chloroethoxy)methane	1.614	1.588	-	1.6	20	102	0
2,4-Dichlorophenol	1.25	1.117	-	10.6	20	90	0
1,2,4-Trichlorobenzene	1.449	1.306	-	9.9	20	98	0
IS1_Naphthalene-d8	1	1	-	0	20	100	0
Naphthalene	1.129	1.064	-	5.8	20	98	0
Benzoic Acid	5	5.051	-	-1	20	104	0
4-Chloroaniline	0.127	0.136	-	-7.1	20	106	0
Hexachlorobutadiene	0.239	0.245	-	-2.5	20	103	0
p-Chloro-m-cresol	0.296	0.316	-	-6.8	20	104	0
2-Methylnaphthalene	0.752	0.714	-	5.1	20	96	0
1-Methylnaphthalene	0.243	0.255	-	-4.9	20	108	0
Hexachlorocyclopentadiene	0.262	0.223	-	14.9	20	86	0
2,4,6-Trichlorophenol	0.275	0.243	-	11.6	20	86	0
2,4,5-Trichlorophenol	0.285	0.261	-	8.4	20	91	0
2-Fluorobiphenyl	0.926	0.829	-	10.5	20	91	0
2-Chloronaphthalene	0.785	0.704	-	10.3	20	92	0
2-Nitroaniline	0.223	0.213	-	4.5	20	91	0
1,4-Dinitrobenzene	0.114	0.11	-	3.5	20	90	0
1,3-Dinitrobenzene	0.125	0.127	-	-1.6	20	93	0
Dimethyl phthalate	0.915	0.869	-	5	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 00:49		
Lab File ID	: ABN0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.17	1.079	-	7.8	20	92	0
2,6-Dinitrotoluene	0.186	0.189	-	-1.6	20	93	0
1,2-Dinitrobenzene	0.081	0.082	-	-1.2	20	96	0
IS1_Acenaphthene-d10	1	1	-	0	20	102	0
3-Nitroaniline	0.323	0.299	-	7.4	20	91	0
Acenaphthene	1.157	1.027	-	11.2	20	95	0
2,4-Dinitrophenol	5	4.203	-	15.9	20	79	0
Dibenzofuran	1.872	1.663	-	11.2	20	96	0
2,4-Dinitrotoluene	0.419	0.423	-	-1	20	98	0
4-Nitrophenol	0.239	0.251	-	-5	20	100	0
2,3,5,6-Tetrachlorophenol	0.39	0.368	-	5.6	20	92	0
2,3,4,6-Tetrachlorophenol	0.385	0.367	-	4.7	20	94	0
Diethyl phthalate	1.518	1.388	-	8.6	20	96	0
Fluorene	1.462	1.342	-	8.2	20	96	0
4-Chlorophenyl phenyl ethe	0.75	0.67	-	10.7	20	95	0
4-Nitroaniline	0.329	0.302	-	8.2	20	93	0
4,6-Dinitro-o-cresol	5	4.633	-	7.3	20	101	0
NDPA/DPA	1.261	1.146	-	9.1	20	93	0
Azobenzene	1.232	1.334	-	-8.3	20	110	0
2,4,6-Tribromophenol	0.226	0.2	-	11.5	20	89	0
4-Bromophenyl phenyl ether	0.465	0.404	-	13.1	20	91	0
Hexachlorobenzene	0.526	0.434	-	17.5	20	89	0
Pentachlorophenol	0.319	0.3	-	6	20	94	0
IS1_Phenanthrene-d10	1	1	-	0	20	101	0
Phenanthrene	1.174	1.069	-	8.9	20	96	0
Anthracene	1.17	1.056	-	9.7	20	96	0
Carbazole	1.054	0.993	-	5.8	20	96	0
Di-n-butylphthalate	1.319	1.221	-	7.4	20	91	0
Fluoranthene	1.353	1.276	-	5.7	20	96	0
Benzidine	0.776	0.466	-	39.9*	20	56	0
Pyrene	1.428	1.326	-	7.1	20	95	0
4-Terphenyl-d14	1.073	0.953	-	11.2	20	91	0
Butyl benzyl phthalate	0.555	0.546	-	1.6	20	92	0
IS1_Chrysene-d12	1	1	-	0	20	94	0
Benzo(a)anthracene	1.379	1.286	-	6.7	20	92	0
3,3'-Dichlorobenzidine	0.453	0.421	-	7.1	20	84	0
Chrysene	1.324	1.217	-	8.1	20	90	0
Bis(2-ethylhexyl)phthalate	0.828	0.843	-	-1.8	20	88	0
Di-n-octylphthalate	1.373	1.387	-	-1	20	86	0
Benzo(b)fluoranthene	1.331	1.274	-	4.3	20	93	0
Benzo(k)fluoranthene	1.24	1.171	-	5.6	20	87	0
Benzo(a)pyrene	1.155	1.09	-	5.6	20	88	0
IS1_Perylene-d12	1	1	-	0	20	90	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 00:49		
Lab File ID	: ABN0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-3	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.213	1.065	-	12.2	20	79	0
Dibenzo(a,h)anthracene	1.153	1.034	-	10.3	20	80	0
Benzo(ghi)perylene	1.08	0.977	-	9.5	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 01:12		
Lab File ID	: AP90305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-4	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	0.948	0.879	-	7.3	20	90	0
Acetophenone	1.829	1.755	-	4	20	97	0
m-Toluidine	1.612	1.518	-	5.8	20	94	0
2-Chloroaniline	1.609	1.498	-	6.9	20	91	0
IS2_Naphthalene-d8	1	1	-	0	20	94	0
a-Terpineol	0.282	0.282	-	0	20	95	0
3-Chloroaniline	0.132	0.151	-	-14.4	20	102	0
2,6-Dichlorophenol	0.3	0.285	-	5	20	87	0
1-chloro-2-nitrobenzene	0.145	0.142	-	2.1	20	92	0
Caprolactam	0.147	0.139	-	5.4	20	87	0
1,2,4,5-Tetrachlorobenzene	0.402	0.375	-	6.7	20	89	0
Biphenyl	0.907	0.838	-	7.6	20	86	0
IS2_Acenaphthene-d10	1	1	-	0	20	96	0
Dichloran	0.181	0.156	-	13.8	20	84	0
Pentachloronitrobenzene	0.193	0.188	-	2.6	20	91	0
IS2_Phenanthrene-d10	1	1	-	0	20	92	0
Diphenamid	0.505	0.488	-	3.4	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/06/25 01:36		
Lab File ID	: ADP0305N	**Init. Calib. Date(s)**	: 10/09/24	10/11/24	
Sample No	: WG2037122-5	**Init. Calib. Times**	: 20:07	15:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
1,4-Dioxane	0.485	0.566	-	-16.7	20	122	0
n-Decane	1.486	1.458	-	1.9	20	98	0
IS3_Acenaphthene-d10	1	1	-	0	20	87	0
Atrazine	0.415	0.335	-	19.3	20	74	0
IS3_Phenanthrene-d10	1	1	-	0	20	85	0
n-Octadecane	0.485	0.438	-	9.7	20	77	0
Parathion	5	4.559	-	8.8	20	88	0
3,3'-Dimethylbenzidine	0.821	0.661	-	19.5	20	75	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305NRVT\
Data File : ABN0305n.D
Acq On : 6 Mar 2025 12:49 am
Operator : SV106:imk
Sample : WG2037122-3,32,,ABN RVT CCV Lot # 11297
Misc : WG2037122,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 06 01:16:58 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:17:52 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	105	0.00
2	t	n-Nitrosodimethylamine		0.760	0.822	-8.2	115	0.00
3	t	Pyridine		1.219	1.309	-7.4	114	0.00
4	S	2-Fluorophenol		1.245	1.168	6.2	100	0.00
5	T	Aniline		1.771	1.759	0.7	102	0.00
6	t	2-Chlorophenol		1.365	1.305	4.4	99	0.00
7	S	Phenol-d6		1.498	1.508	-0.7	108	0.00
8	T	Phenol		1.555	1.592	-2.4	107	0.00
9	T	Bis(2-chloroethyl)ether		1.280	1.222	4.5	100	0.00
10	T	1,3-Dichlorobenzene		1.669	1.521	8.9	98	0.00
11	T	1,4-Dichlorobenzene		1.700	1.543	9.2	98	0.00
12	T	1,2-Dichlorobenzene		1.630	1.474	9.6	97	0.00
13	t	Benzyl alcohol		1.060	1.089	-2.7	108	0.00
14	T	Bis(2-chloroisopropyl)ether		2.014	1.679	16.6	90	0.00
15	T	2-Methylphenol		1.123	1.065	5.2	98	0.00
16	T	Hexachloroethane		0.614	0.614	0.0	108	0.00
17	T	n-Nitrosodi-n-propylamine		0.940	0.941	-0.1	103	0.00
18	T	3-Methylphenol/4-Methylphen		1.225	1.147	6.4	97	0.00
19	S	Nitrobenzene-d5		1.359	1.428	-5.1	110	0.00
20	T	Nitrobenzene		1.389	1.465	-5.5	112	0.00
21	T	Isophorone		2.416	2.571	-6.4	109	0.00
22	T	2-Nitrophenol		0.713	0.669	6.2	94	0.00
23	T	2,4-Dimethylphenol		1.119	0.562	49.8#	53	0.00
24	T	Bis(2-chloroethoxy)methane		1.614	1.588	1.6	102	0.00
25	T	2,4-Dichlorophenol		1.250	1.117	10.6	90	0.00
26	T	1,2,4-Trichlorobenzene		1.449	1.306	9.9	98	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	100	0.00
36	T	Naphthalene		1.129	1.064	5.8	98	0.00
37	T	Benzoic Acid	*	5.000	5.051	-1.0	104	0.00
38	T	4-Chloroaniline		0.127	0.136	-7.1	106	0.00
39	T	Hexachlorobutadiene		0.239	0.245	-2.5	103	0.00
40	T	p-Chloro-m-cresol		0.296	0.316	-6.8	104	0.00
41	T	2-Methylnaphthalene		0.752	0.714	5.1	96	0.00
42	T	1-Methylnaphthalene		0.243	0.255	-4.9	108	0.00
43	T	Hexachlorocyclopentadiene		0.262	0.223	14.9	86	0.00
44	T	2,4,6-Trichlorophenol		0.275	0.243	11.6	86	0.00
45	T	2,4,5-Trichlorophenol		0.285	0.261	8.4	91	0.00
46	S	2-Fluorobiphenyl		0.926	0.829	10.5	91	0.00

Data Path : I:\8270\SV106\250305NRVT\
Data File : ABN0305n.D
Acq On : 6 Mar 2025 12:49 am
Operator : SV106:imk
Sample : WG2037122-3,32,,ABN RVT CCV Lot # 11297
Misc : WG2037122,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 06 01:16:58 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:17:52 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.785	0.704	10.3	92	0.00
48	T	2-Nitroaniline		0.223	0.213	4.5	91	0.00
49	T	1,4-Dinitrobenzene		0.114	0.110	3.5	90	0.00
50	T	1,3-Dinitrobenzene		0.125	0.127	-1.6	93	0.00
51	T	Dimethyl phthalate		0.915	0.869	5.0	92	0.00
52	T	Acenaphthylene		1.170	1.079	7.8	92	0.00
53	T	2,6-Dinitrotoluene		0.186	0.189	-1.6	93	0.00
54	T	1,2-Dinitrobenzene		0.081	0.082	-1.2	96	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	102	0.00
64	T	3-Nitroaniline		0.323	0.299	7.4	91	0.00
65	T	Acenaphthene		1.157	1.027	11.2	95	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.203	15.9	79	0.00
67	T	Dibenzofuran		1.872	1.663	11.2	96	0.00
68	T	2,4-Dinitrotoluene		0.419	0.423	-1.0	98	0.00
69	T	4-Nitrophenol		0.239	0.251	-5.0	100	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.390	0.368	5.6	92	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.385	0.367	4.7	94	0.00
72	T	Diethyl phthalate		1.518	1.388	8.6	96	0.00
73	T	Fluorene		1.462	1.342	8.2	96	0.00
74	T	4-Chlorophenyl phenyl ether		0.750	0.670	10.7	95	0.00
75	T	4-Nitroaniline		0.329	0.302	8.2	93	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.633	7.3	101	0.00
77	T	NDPA/DPA		1.261	1.146	9.1	93	0.00
78	T	Azobenzene		1.232	1.334	-8.3	110	0.00
79	S	2,4,6-Tribromophenol		0.226	0.200	11.5	89	0.00
80	T	4-Bromophenyl phenyl ether		0.465	0.404	13.1	91	0.00
81	T	Hexachlorobenzene		0.526	0.434	17.5	89	0.00
82	T	Pentachlorophenol		0.319	0.300	6.0	94	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	101	0.00
89	T	Phenanthrene		1.174	1.069	8.9	96	0.00
90	T	Anthracene		1.170	1.056	9.7	96	0.00
91	T	Carbazole		1.054	0.993	5.8	96	0.00
92	T	Di-n-butylphthalate		1.319	1.221	7.4	91	0.00
93	T	Fluoranthene		1.353	1.276	5.7	96	0.00
94	T	Benzidine		0.776	0.466	39.9#	56	0.00
95	T	Pyrene		1.428	1.326	7.1	95	0.00
96	S	4-Terphenyl-d14		1.073	0.953	11.2	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305NRVT\
Data File : ABN0305n.D
Acq On : 6 Mar 2025 12:49 am
Operator : SV106:imk
Sample : WG2037122-3,32,,ABN RVT CCV Lot # 11297
Misc : WG2037122,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 06 01:16:58 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:17:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.555	0.546	1.6	92	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	94	0.00
105	T	Benzo(a)anthracene	1.379	1.286	6.7	92	0.00
106	T	3,3'-Dichlorobenzidine	0.453	0.421	7.1	84	0.00
107	T	Chrysene	1.324	1.217	8.1	90	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.828	0.843	-1.8	88	0.00
109	T	Di-n-octylphthalate	1.373	1.387	-1.0	86	0.00
110	T	Benzo(b)fluoranthene	1.331	1.274	4.3	93	0.00
111	T	Benzo(k)fluoranthene	1.240	1.171	5.6	87	0.00
112	T	Benzo(a)pyrene	1.155	1.090	5.6	88	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	90	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.213	1.065	12.2	79	0.00
115	T	Dibenzo(a,h)anthracene	1.153	1.034	10.3	80	0.00
116	T	Benzo(ghi)perylene	1.080	0.977	9.5	81	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : ABN0305n.D
Acq On : 6 Mar 2025 12:49 am
Operator : SV106:imk
Sample : WG2037122-3,32,,ABN RVT CCV Lot # 11297
Misc : WG2037122,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 06 01:16:58 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:17:52 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.372	152	73068	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	7.807	136	265385	4.000	ug/ml	#	0.00
63) IS1_Acenaphthene-d10	9.572	164	170121	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	11.007	188	330097	4.000	ug/ml	#	0.00
104) IS1_Chrysene-d12	13.642	240	331360	4.000	ug/ml		0.00
113) IS1_Perylene-d12	15.107	264	342841	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.413	112	106717	4.694	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 234.70%#				
7) Phenol-d6	6.007	99	137776	5.035	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 251.75%#				
19) Nitrobenzene-d5	7.037	82	130385	5.251	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 525.10%#				
46) 2-Fluorobiphenyl	8.936	172	275005	4.477	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 447.70%#				
79) 2,4,6-Tribromophenol	10.342	330	42433	4.409	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 220.45%#				
96) 4-Terphenyl-d14	12.595	244	393109	4.437	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 443.70%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.025	74	75106	5.409	ug/ml	#	62
3) Pyridine	2.072	79	119585	5.372	ug/ml	#	54
5) Aniline	5.960	93	160637	4.965	ug/ml		99
6) 2-Chlorophenol	6.107	128	119230	4.781	ug/ml		95
8) Phenol	6.019	94	145409	5.121	ug/ml		96
9) Bis(2-chloroethyl)ether	6.095	93	111616	4.772	ug/ml	#	81
10) 1,3-Dichlorobenzene	6.295	146	138936	4.558	ug/ml		99
11) 1,4-Dichlorobenzene	6.395	146	140911	4.538	ug/ml		98
12) 1,2-Dichlorobenzene	6.572	146	134641	4.522	ug/ml		98
13) Benzyl alcohol	6.590	79	99486	5.137	ug/ml		96
14) Bis(2-chloroisopropyl)...	6.766	45	153339	4.169	ug/ml	#	46
15) 2-Methylphenol	6.760	108	97278	4.741	ug/ml		98
16) Hexachloroethane	6.966	117	56074	5.000	ug/ml	#	62
17) n-Nitrosodi-n-propylamine	6.913	70	85985	5.006	ug/ml		93
18) 3-Methylphenol/4-Methy...	6.948	108	104736	4.680	ug/ml		97
20) Nitrobenzene	7.060	77	133780	5.273	ug/ml		95
21) Isophorone	7.342	82	234789	5.320	ug/ml	#	94
22) 2-Nitrophenol	7.419	139	61126	4.696	ug/ml	#	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : ABN0305n.D
Acq On : 6 Mar 2025 12:49 am
Operator : SV106:imk
Sample : WG2037122-3,32,,ABN RVT CCV Lot # 11297
Misc : WG2037122,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 06 01:16:58 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:17:52 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.519	107	51308	2.511	ug/ml	91
24) Bis(2-chloroethoxy)met...	7.613	93	145006	4.918	ug/ml	99
25) 2,4-Dichlorophenol	7.684	162	102053	4.469	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.760	180	119328	4.509	ug/ml	98
36) Naphthalene	7.831	128	353013	4.712	ug/ml	99
37) Benzoic Acid	7.607	105	73187	5.051	ug/ml	95
38) 4-Chloroaniline	7.913	65	45181	5.377	ug/ml	96
39) Hexachlorobutadiene	7.995	225	81411	5.140	ug/ml	96
40) p-Chloro-m-cresol	8.442	107	104796	5.332	ug/ml	95
41) 2-Methylnaphthalene	8.548	142	236938	4.746	ug/ml	98
42) 1-Methylnaphthalene	8.642	115	84604	5.238	ug/ml	87
43) Hexachlorocyclopentadiene	8.725	237	74009	4.259	ug/ml	96
44) 2,4,6-Trichlorophenol	8.848	196	80642	4.416	ug/ml	97
45) 2,4,5-Trichlorophenol	8.878	196	86656	4.584	ug/ml	97
47) 2-Chloronaphthalene	9.025	162	233528	4.487	ug/ml	97
48) 2-Nitroaniline	9.142	138	70610	4.766	ug/ml	93
49) 1,4-Dinitrobenzene	9.278	168	36360	4.806	ug/ml	89
50) 1,3-Dinitrobenzene	9.354	168	41976	5.062	ug/ml#	1
51) Dimethyl phthalate	9.348	163	288185	4.749	ug/ml#	97
52) Acenaphthylene	9.431	152	358047	4.614	ug/ml	99
53) 2,6-Dinitrotoluene	9.389	165	62557	5.071	ug/ml#	87
54) 1,2-Dinitrobenzene	9.431	168	27220	5.090	ug/ml#	1
64) 3-Nitroaniline	9.542	138	63553	4.626	ug/ml	94
65) Acenaphthene	9.601	154	218466	4.439	ug/ml	90
66) 2,4-Dinitrophenol	9.648	184	32638	4.203	ug/ml	93
67) Dibenzofuran	9.772	168	353697	4.443	ug/ml	95
68) 2,4-Dinitrotoluene	9.778	165	89890	5.042	ug/ml	97
69) 4-Nitrophenol	9.736	65	53475	5.263	ug/ml#	88
70) 2,3,5,6-Tetrachlorophenol	9.866	232	78153	4.707	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	9.907	232	78097	4.765	ug/ml	97
72) Diethyl phthalate	10.042	149	295210	4.573	ug/ml	98
73) Fluorene	10.107	166	285289	4.589	ug/ml	93
74) 4-Chlorophenyl phenyl ...	10.130	204	142514	4.466	ug/ml	90
75) 4-Nitroaniline	10.130	138	64164	4.590	ug/ml#	88
76) 4,6-Dinitro-o-cresol	10.172	198	55553	4.633	ug/ml#	62
77) NDPA/DPA	10.242	169	243742	4.544	ug/ml	98
78) Azobenzene	10.278	77	283773	5.414	ug/ml	99
80) 4-Bromophenyl phenyl e...	10.601	248	85826	4.341	ug/ml#	85
81) Hexachlorobenzene	10.648	284	92232	4.120	ug/ml#	87
82) Pentachlorophenol	10.842	266	63749	4.706	ug/ml	99
89) Phenanthrene	11.030	178	441052	4.554	ug/ml	100

Data Path : I:\8270\SV106\250305NRVT\
Data File : ABN0305n.D
Acq On : 6 Mar 2025 12:49 am
Operator : SV106:imk
Sample : WG2037122-3,32,,ABN RVT CCV Lot # 11297
Misc : WG2037122,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 06 01:16:58 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:17:52 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	11.077	178	435830	4.513	ug/ml	99
91) Carbazole	11.248	167	409579	4.710	ug/ml	99
92) Di-n-butylphthalate	11.648	149	503813	4.629	ug/ml	99
93) Fluoranthene	12.189	202	526509	4.714	ug/ml#	92
94) Benzidine	12.342	184	192376	3.005	ug/ml#	95
95) Pyrene	12.401	202	547256	4.644	ug/ml	99
97) Butyl benzyl phthalate	13.124	149	225155	4.920	ug/ml	94
105) Benzo(a)anthracene	13.636	228	532791	4.663	ug/ml	100
106) 3,3'-Dichlorobenzidine	13.636	252	174526	4.650	ug/ml#	95
107) Chrysene	13.671	228	504205	4.598	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	13.766	149	349068	5.089	ug/ml#	94
109) Di-n-octylphthalate	14.442	149	574529	5.051	ug/ml#	72
110) Benzo(b)fluoranthene	14.742	252	527613	4.786	ug/ml#	93
111) Benzo(k)fluoranthene	14.765	252	485070	4.723	ug/ml#	93
112) Benzo(a)pyrene	15.054	252	451517	4.719	ug/ml#	92
114) Indeno(1,2,3-cd)pyrene	16.077	276	456517M6	4.392	ug/mL	
115) Dibenzo(a,h)anthracene	16.101	278	443140	4.483	ug/ml#	89
116) Benzo(ghi)perylene	16.324	276	418881	4.526	ug/ml#	85

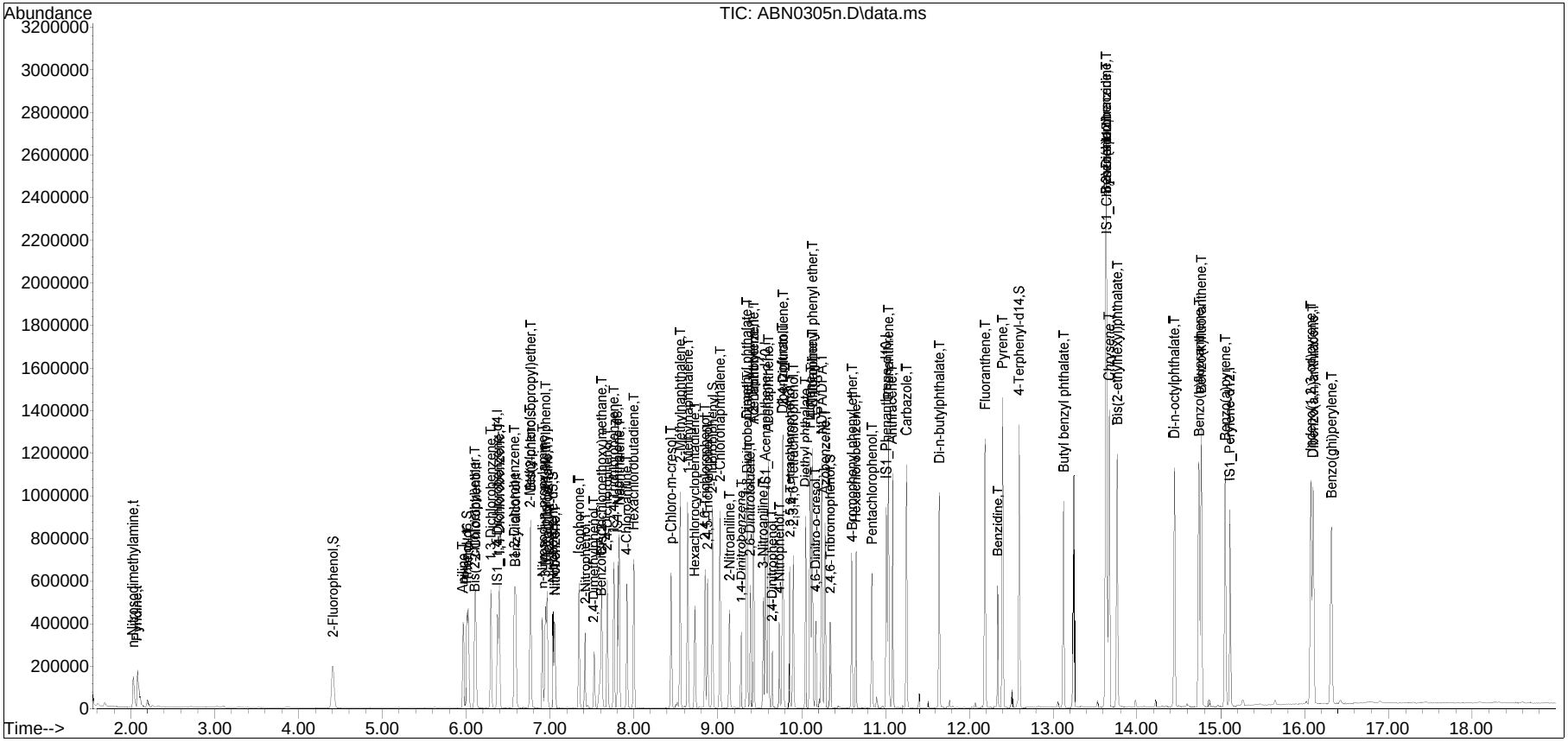
(#) = qualifier out of range (m) = manual integration (+) = signals summed

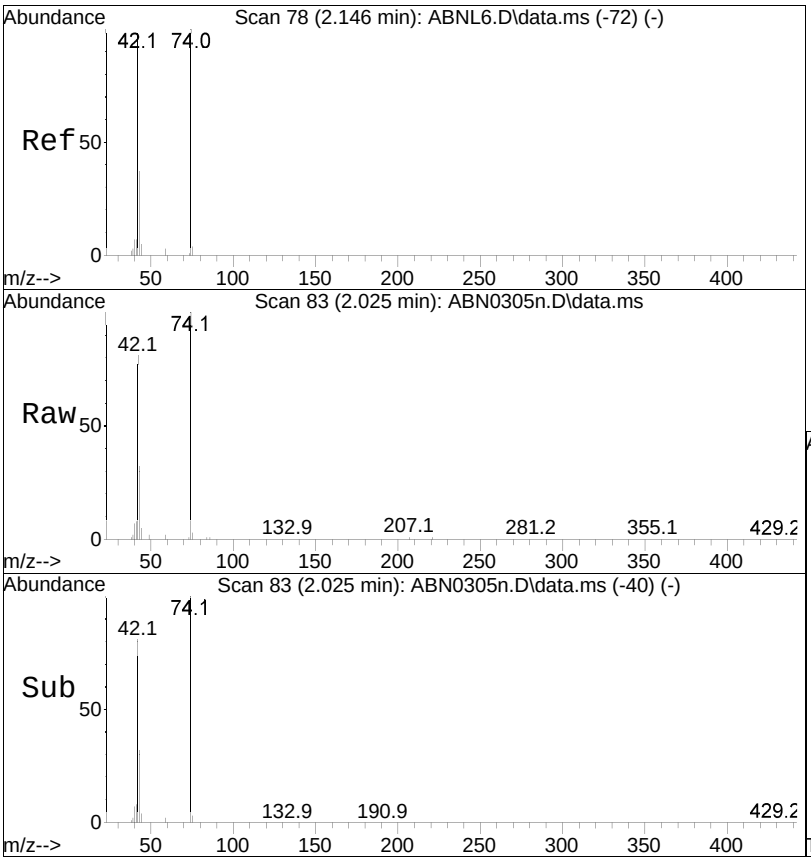
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : ABN0305n.D
Acq On : 6 Mar 2025 12:49 am
Operator : SV106:imk
Sample : WG2037122-3,32,,ABN RVT CCV Lot # 11297
Misc : WG2037122,,ical21604
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 06 01:16:58 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:17:52 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

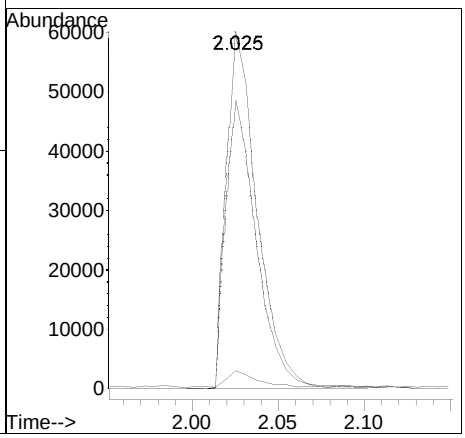


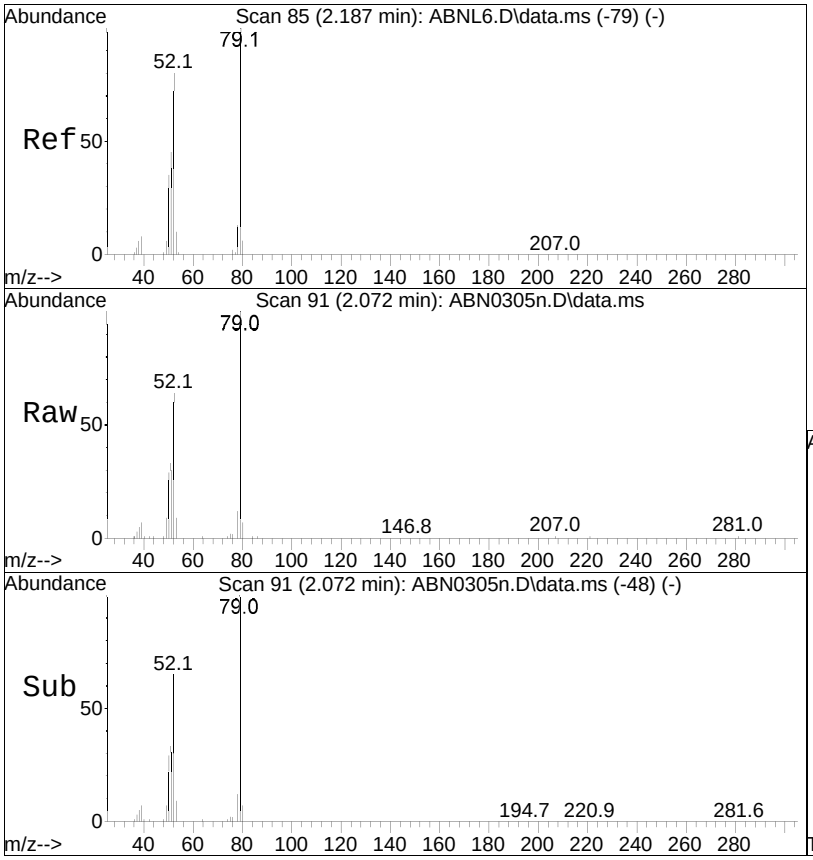


#2
n-Nitrosodimethylamine
Concen: 5.41 ug/ml
RT: 2.025 min Scan# 83
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 74 Resp: 75106

Ion	Ratio	Lower	Upper
74	100		
42	79.8	100.0	150.0#
44	4.8	6.7	10.1#

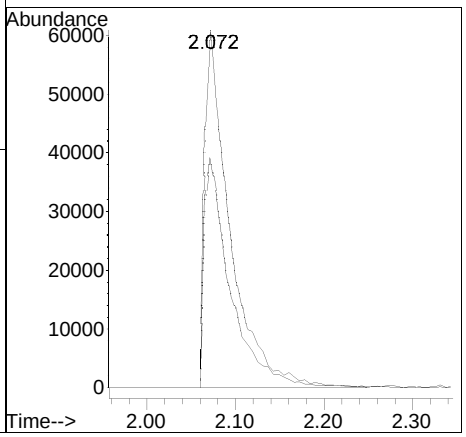


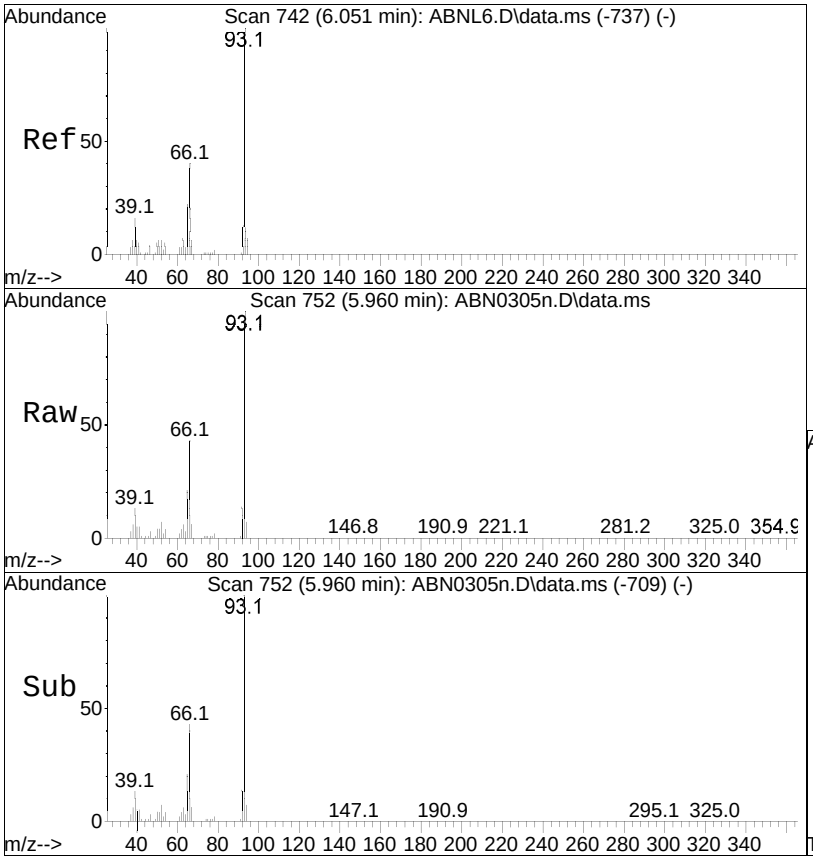


#3
Pyridine
Concen: 5.37 ug/ml
RT: 2.072 min Scan# 91
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 79 Resp: 119585

Ion	Ratio	Lower	Upper
79	100		
52	66.4	93.1	139.7#

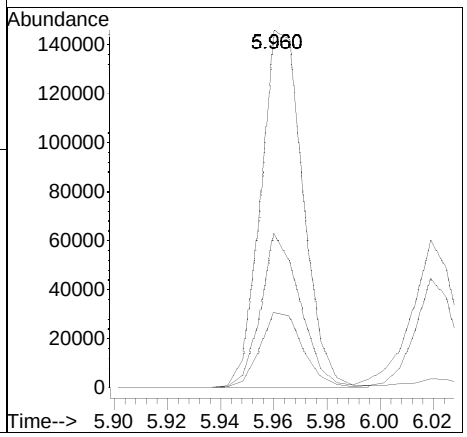


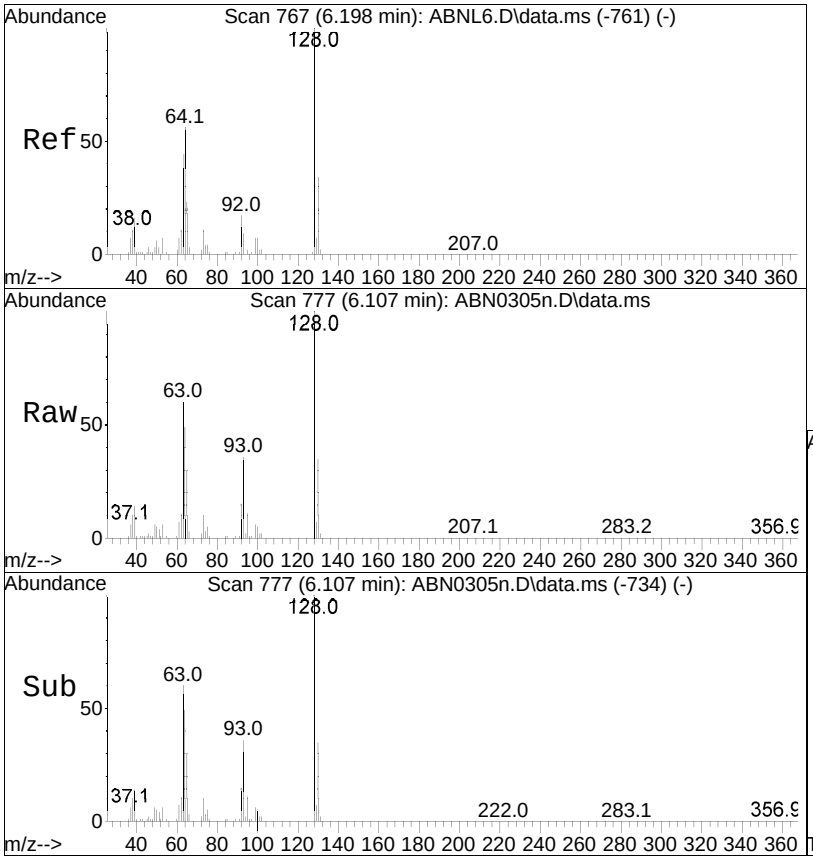


#5
Aniline
Concen: 4.97 ug/ml
RT: 5.960 min Scan# 752
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 93 Resp: 160637

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.6	49.0
65	21.2	17.6	26.4

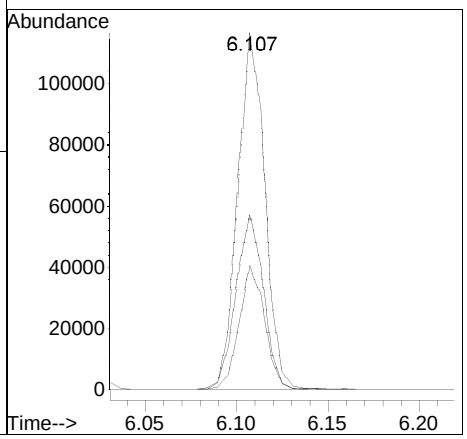


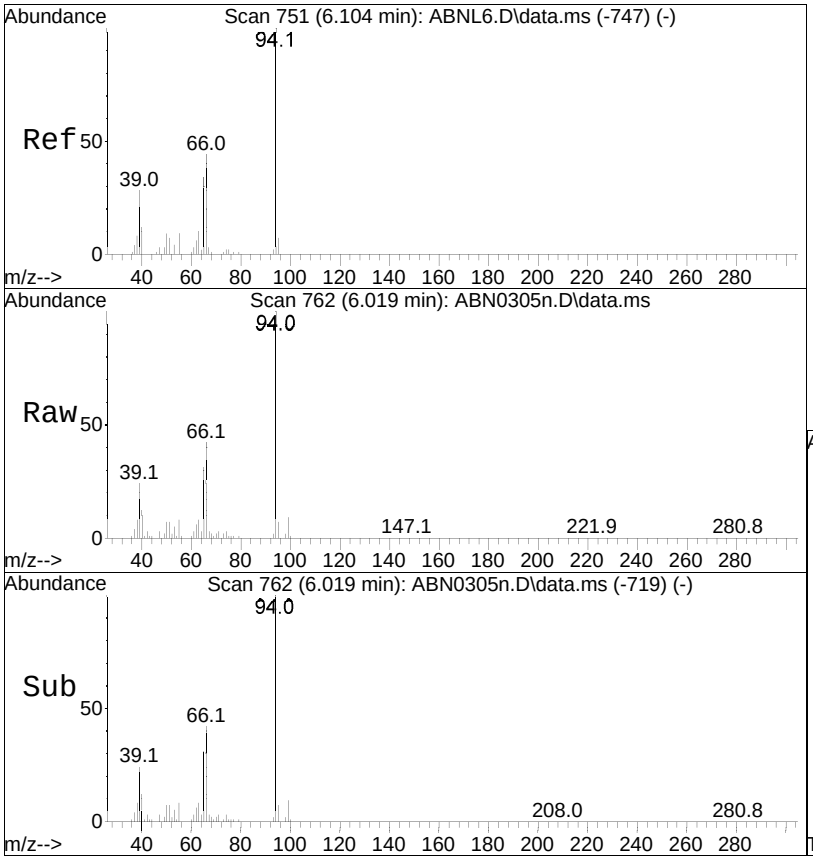


#6
2-Chlorophenol
Concen: 4.78 ug/ml
RT: 6.107 min Scan# 777
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:128 Resp: 119230

Ion	Ratio	Lower	Upper
128	100		
64	50.4	45.1	67.7
130	33.0	26.2	39.4

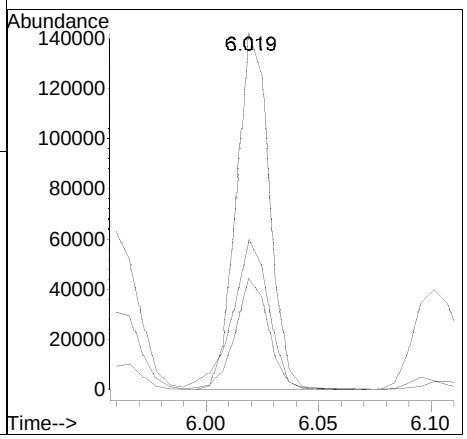


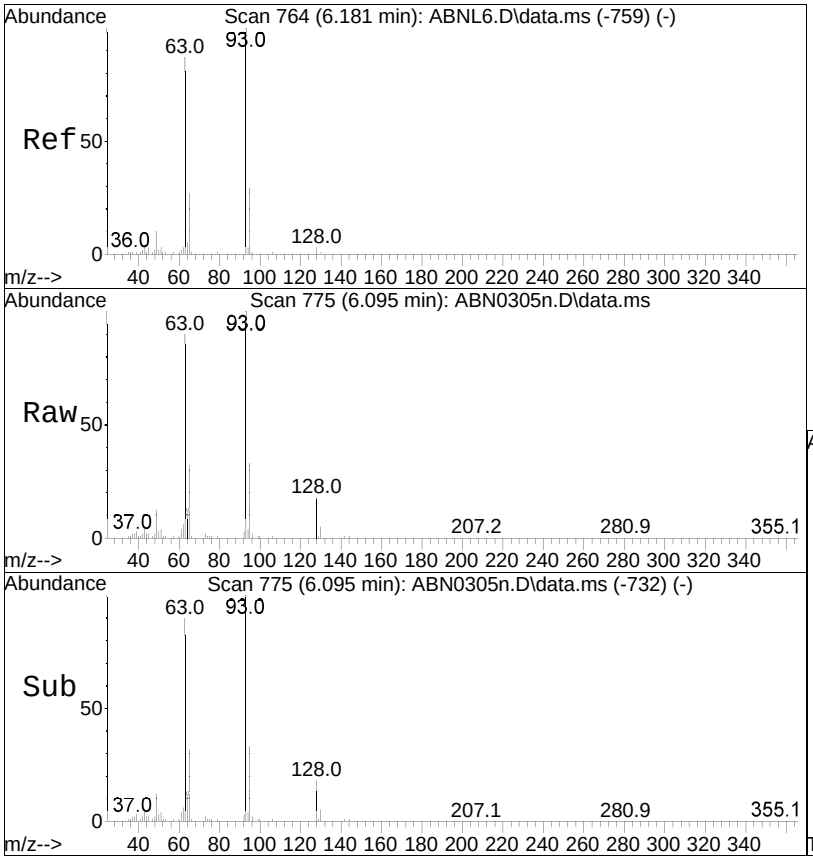


#8
Phenol
Concen: 5.12 ug/ml
RT: 6.019 min Scan# 762
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 94 Resp: 145409

Ion	Ratio	Lower	Upper
94	100		
65	31.9	26.0	39.0
66	46.4	33.8	50.8

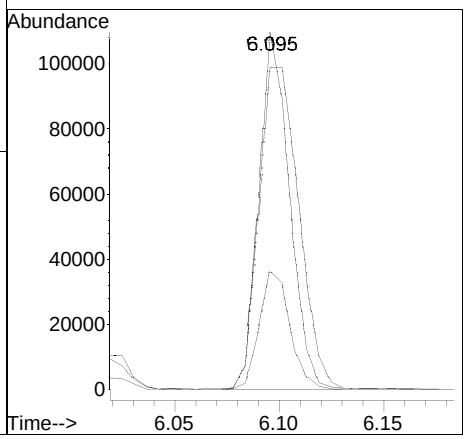


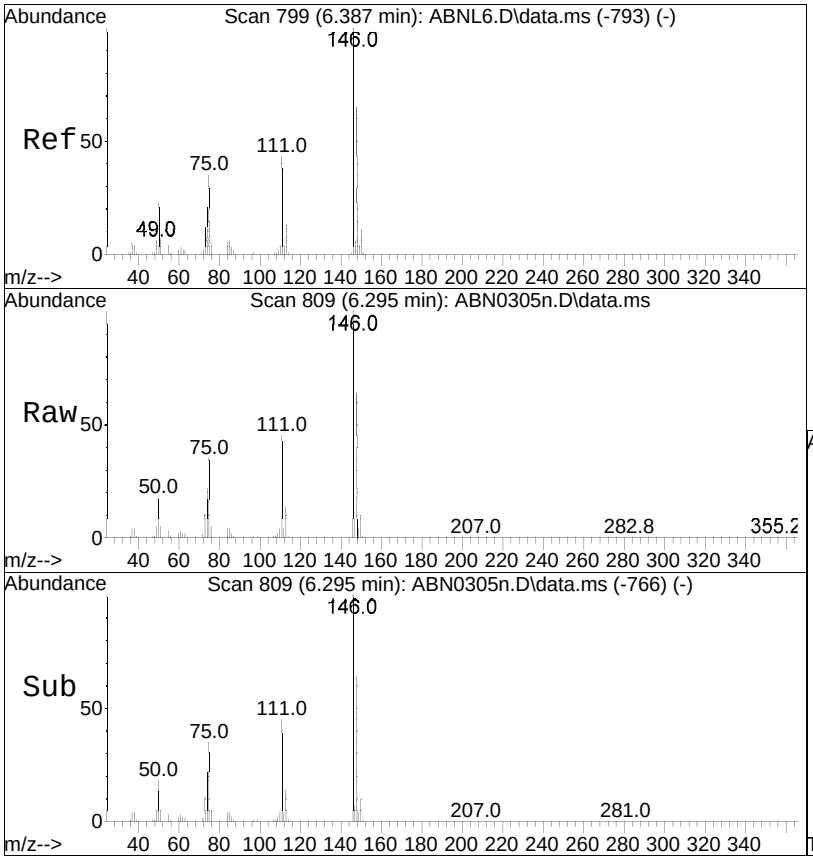


#9
Bis(2-chloroethyl)ether
Concen: 4.77 ug/ml
RT: 6.095 min Scan# 775
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 93 Resp: 111616

Ion	Ratio	Lower	Upper
93	100		
63	116.8	74.6	111.8#
95	33.3	25.9	38.9

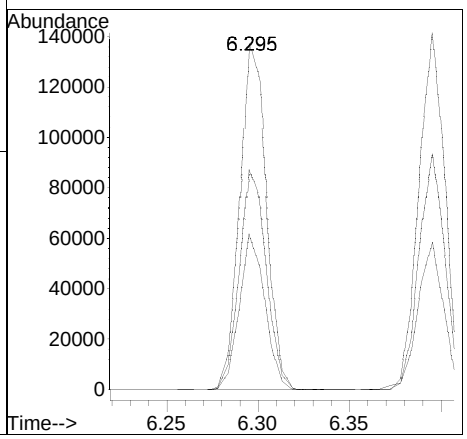


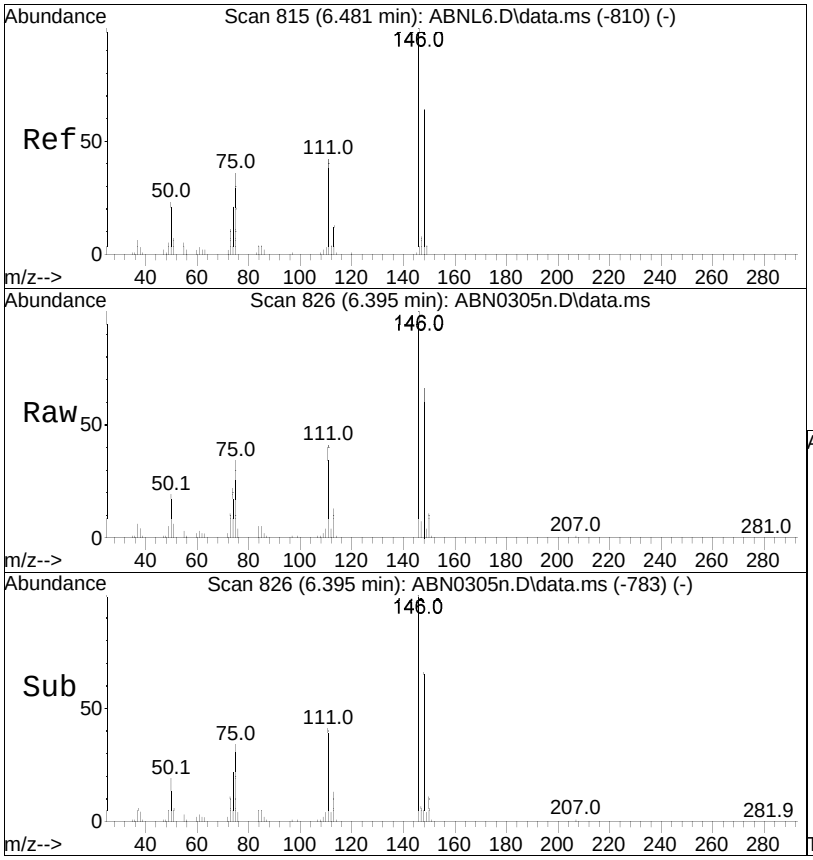


#10
1,3-Dichlorobenzene
Concen: 4.56 ug/ml
RT: 6.295 min Scan# 809
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:146 Resp: 138936

Ion	Ratio	Lower	Upper
146	100		
111	43.3	34.3	51.5
148	64.2	50.8	76.2

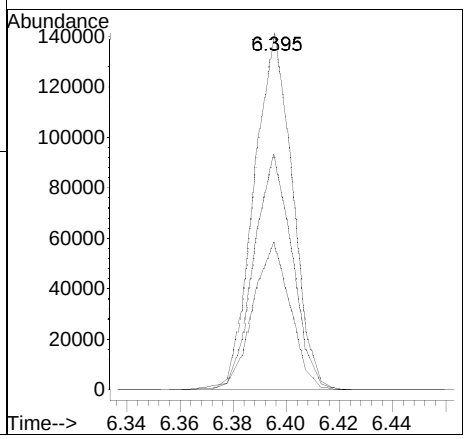


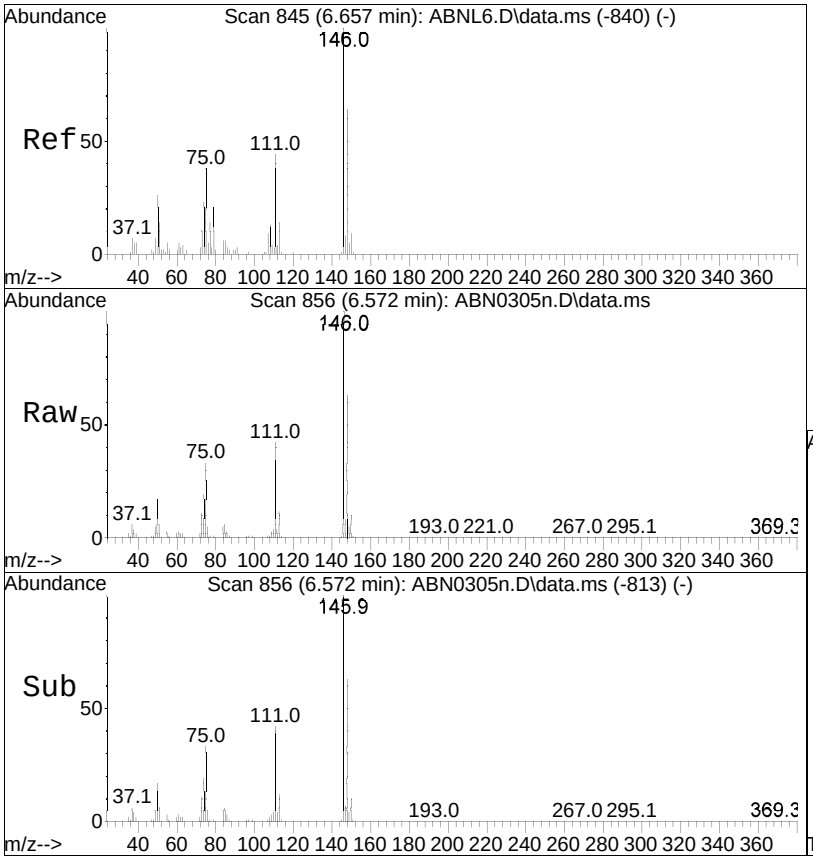


#11
1,4-Dichlorobenzene
Concen: 4.54 ug/ml
RT: 6.395 min Scan# 826
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:146 Resp: 140911

Ion	Ratio	Lower	Upper
146	100		
148	66.1	50.7	76.1
111	41.1	33.4	50.0

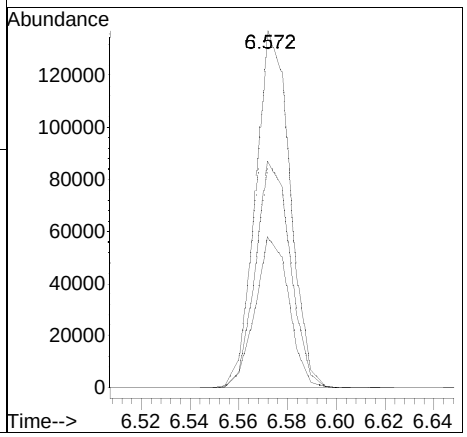


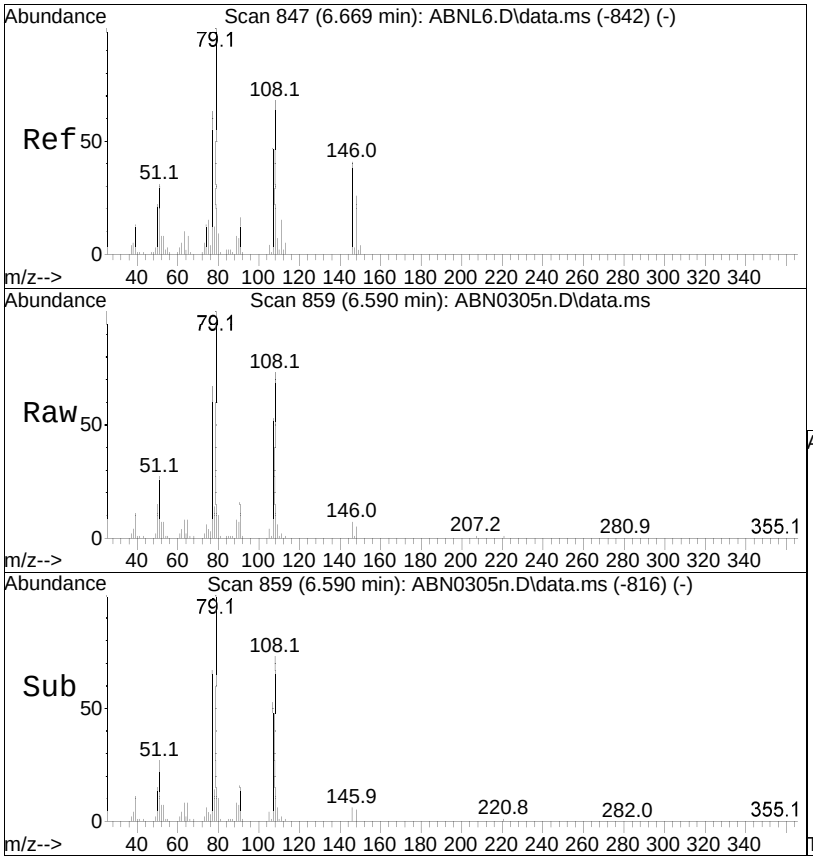


#12
1,2-Dichlorobenzene
Concen: 4.52 ug/ml
RT: 6.572 min Scan# 856
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:146 Resp: 134641

Ion	Ratio	Lower	Upper
146	100		
111	41.8	34.6	52.0
148	64.1	50.2	75.4

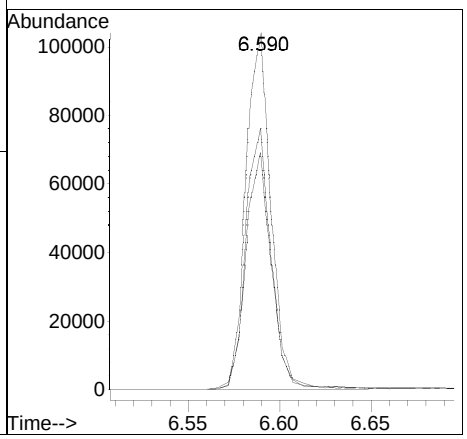


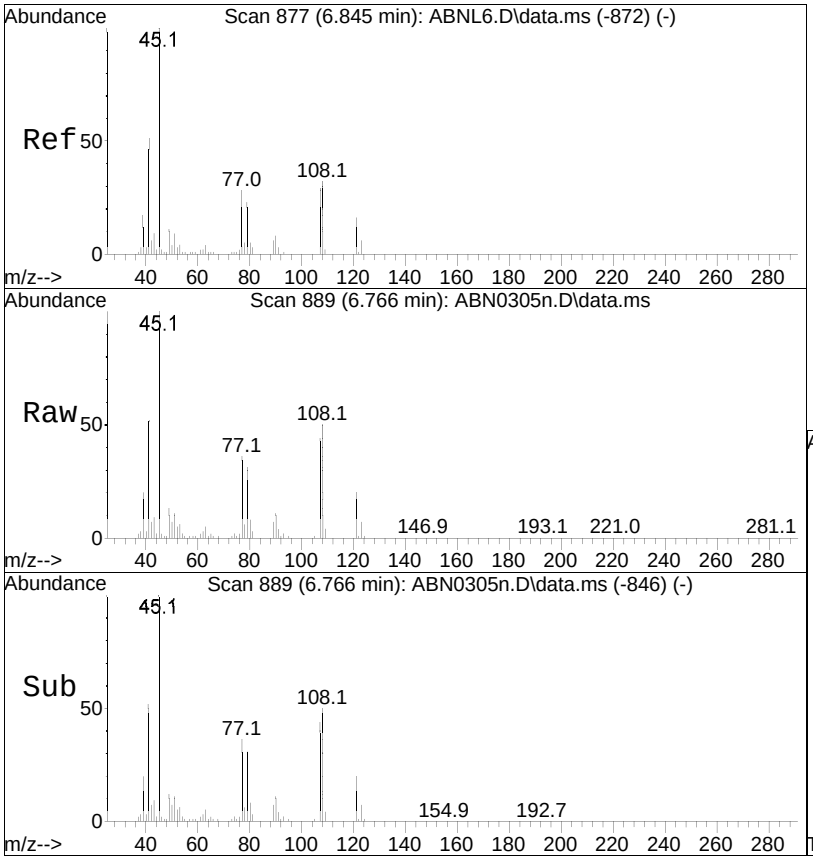


#13
Benzyl alcohol
Concen: 5.14 ug/ml
RT: 6.590 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 79 Resp: 99486

Ion	Ratio	Lower	Upper
79	100		
77	67.5	54.9	82.3
108	74.0	63.1	94.7

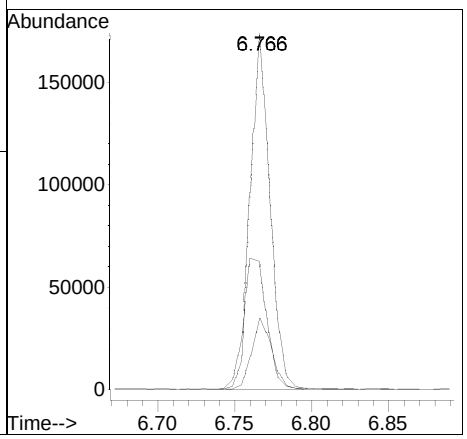


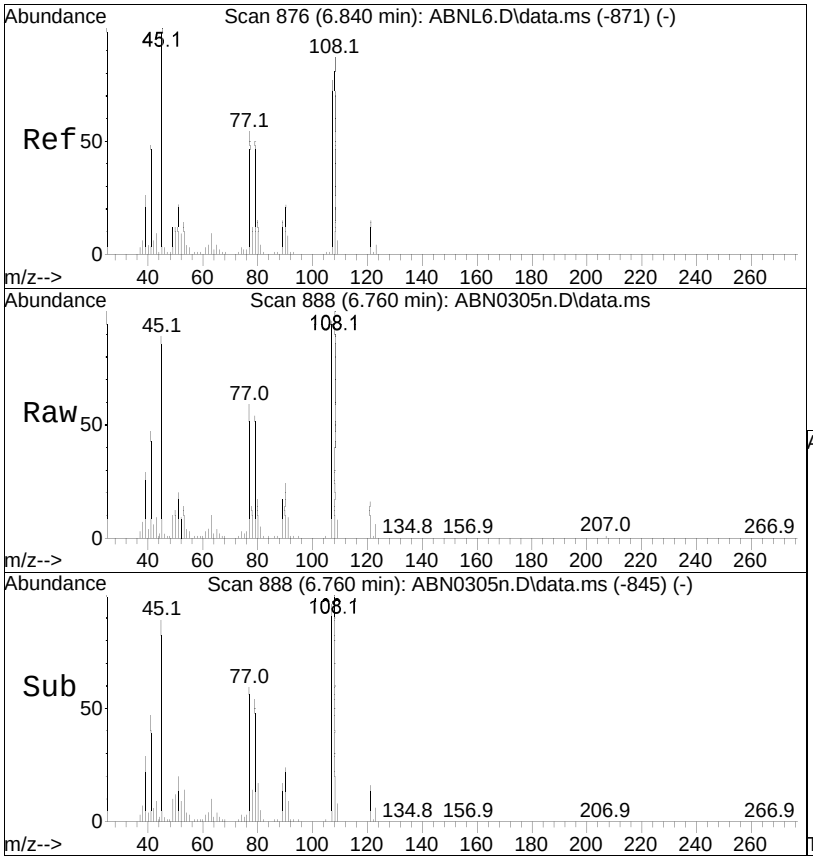


#14
Bis(2-chloroisopropyl)ether
Concen: 4.17 ug/ml
RT: 6.766 min Scan# 889
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 45 Resp: 153339

Ion	Ratio	Lower	Upper
45	100		
121	20.7	9.8	14.6#
77	44.6	6.1	9.1#

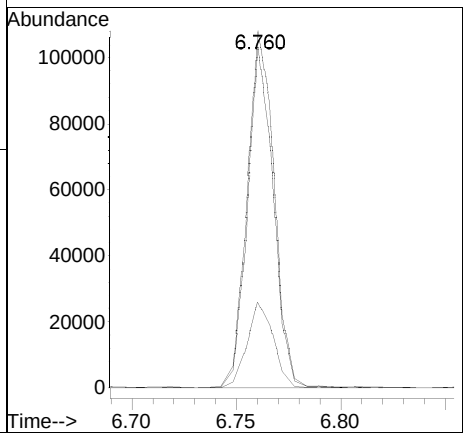


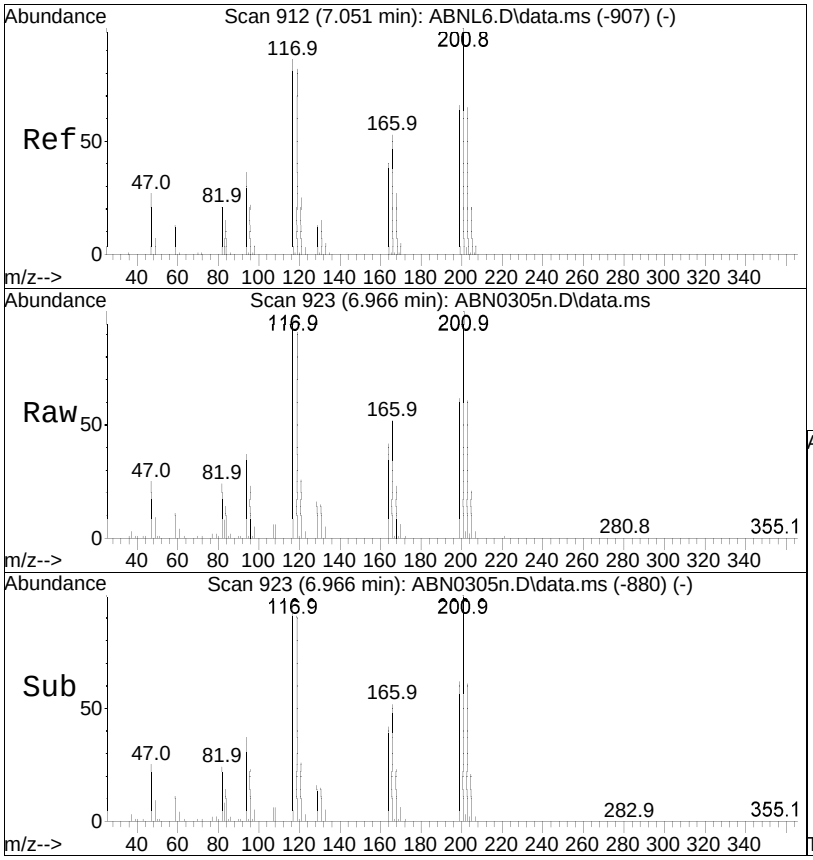


#15
2-Methylphenol
Concen: 4.74 ug/ml
RT: 6.760 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:108 Resp: 97278

Ion	Ratio	Lower	Upper
108	100		
107	90.8	70.7	106.1
90	23.2	18.7	28.1

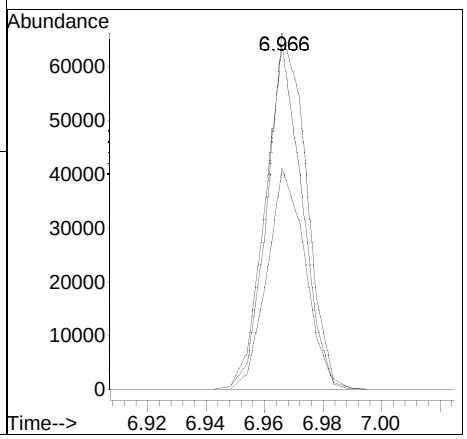


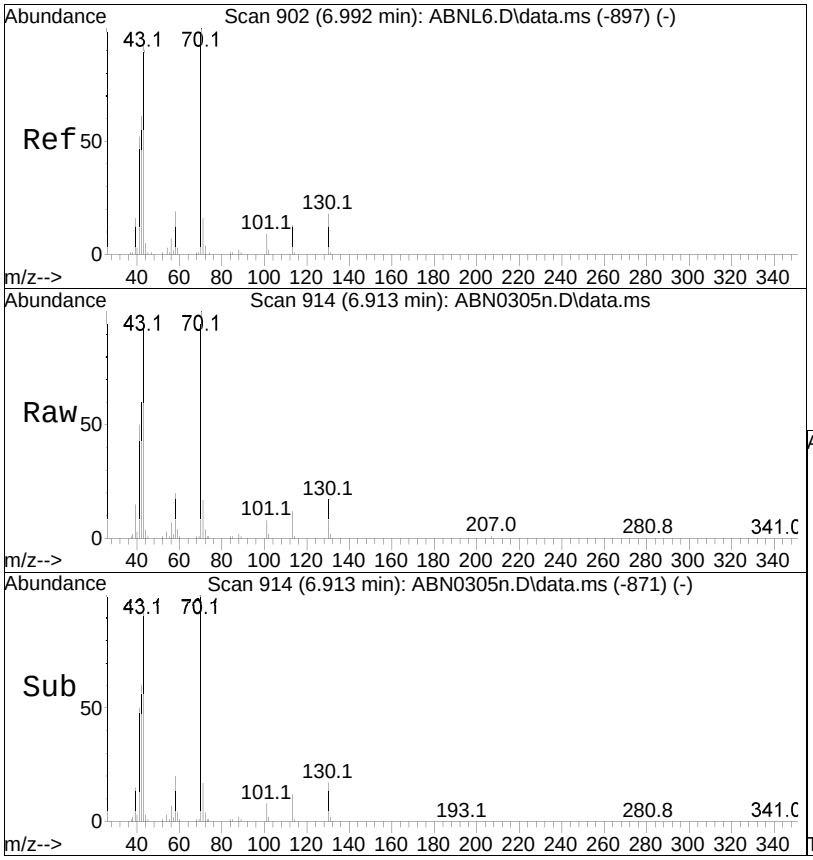


#16
Hexachloroethane
Concen: 5.00 ug/ml
RT: 6.966 min Scan# 923
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:117 Resp: 56074

Ion	Ratio	Lower	Upper
117	100		
201	109.6	58.6	87.8#
199	66.5	36.9	55.3#

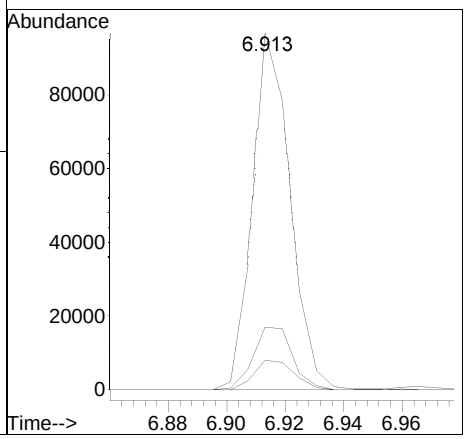


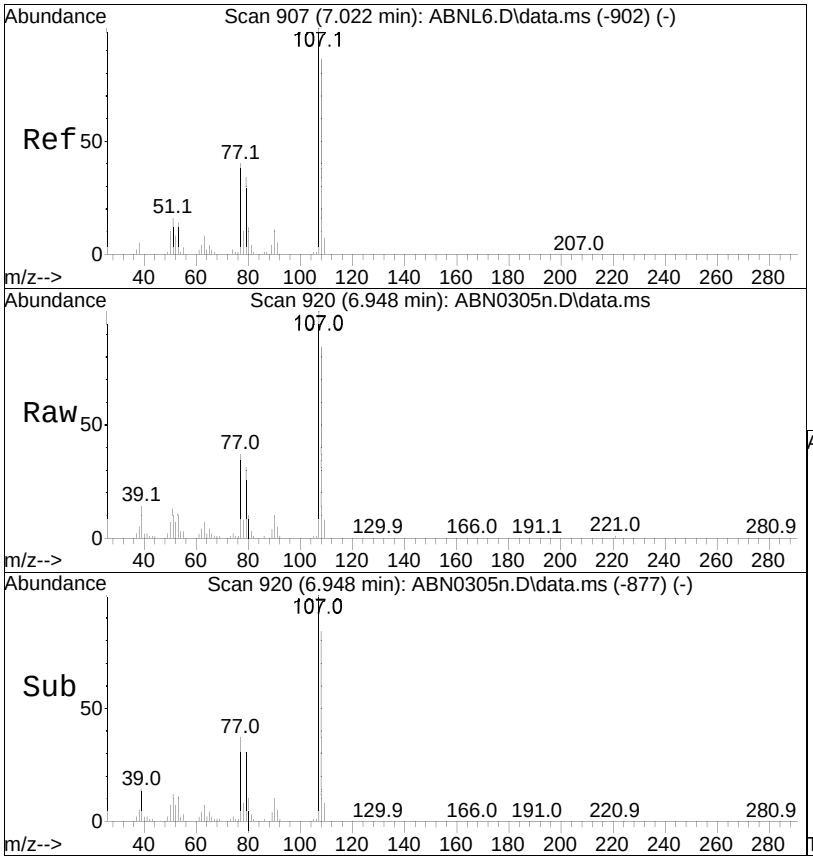


#17
n-Nitrosodi-n-propylamine
Concen: 5.01 ug/ml
RT: 6.913 min Scan# 914
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 70 Resp: 85985

Ion	Ratio	Lower	Upper
70	100		
130	18.4	18.2	27.4
101	8.8	7.8	11.8

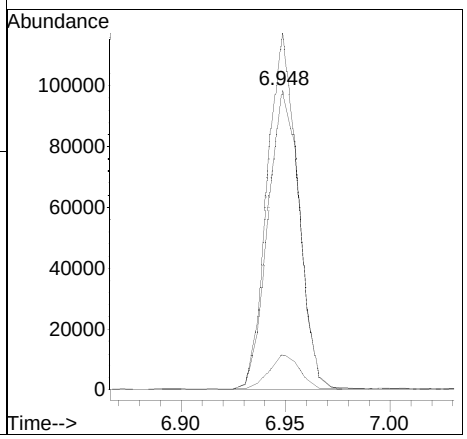


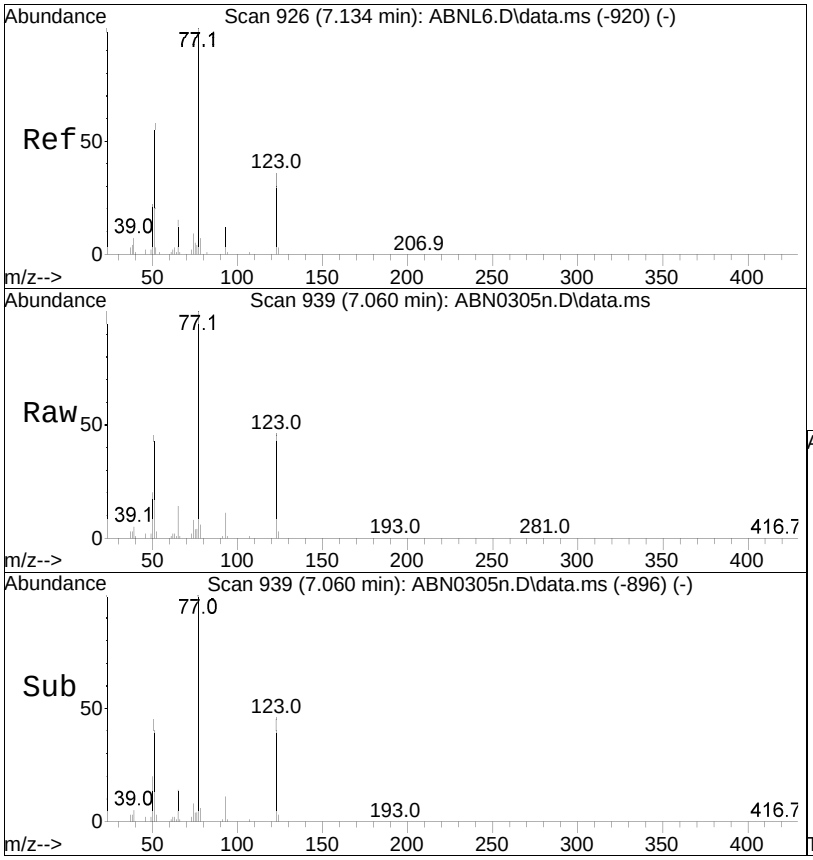


#18
3-Methylphenol/4-Methylphenol
Concen: 4.68 ug/ml
RT: 6.948 min Scan# 920
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:108 Resp: 104736

Ion	Ratio	Lower	Upper
108	100		
107	113.7	88.6	132.8
90	11.3	8.8	13.2

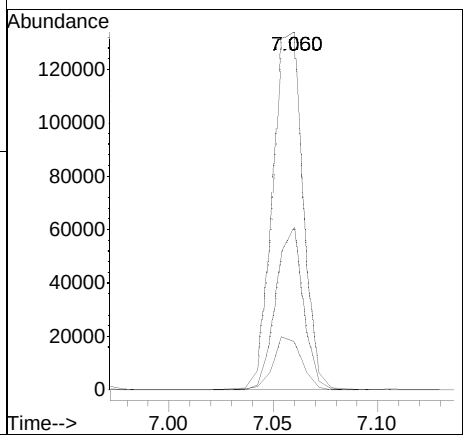


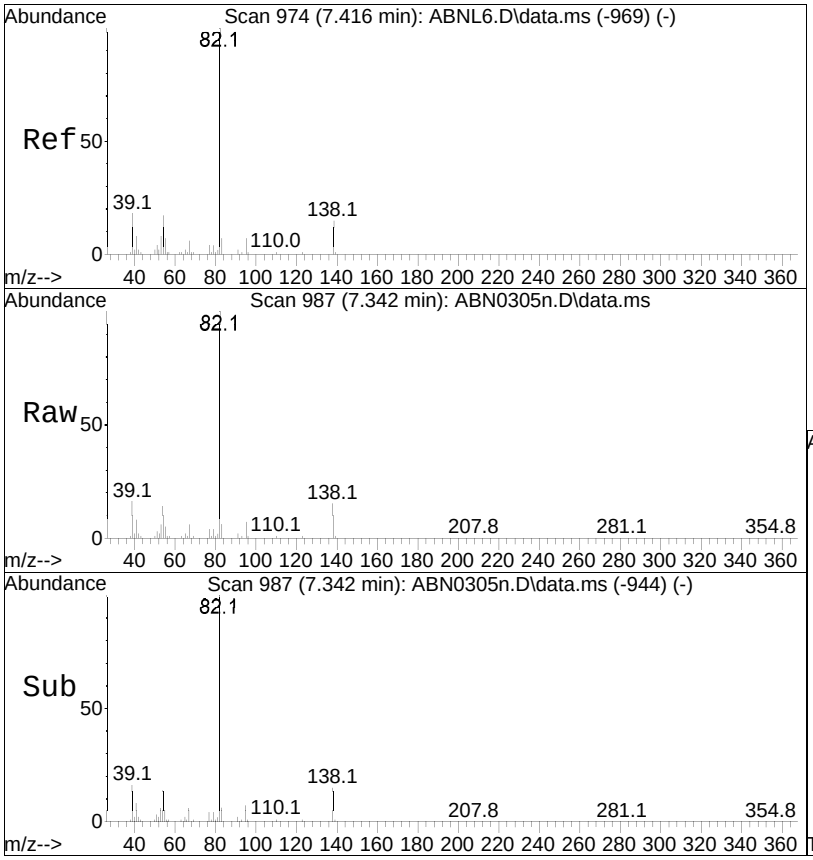


#20
Nitrobenzene
Concen: 5.27 ug/ml
RT: 7.060 min Scan# 939
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 77 Resp: 133780

Ion	Ratio	Lower	Upper
77	100		
123	41.6	36.3	54.5
65	14.1	11.6	17.4

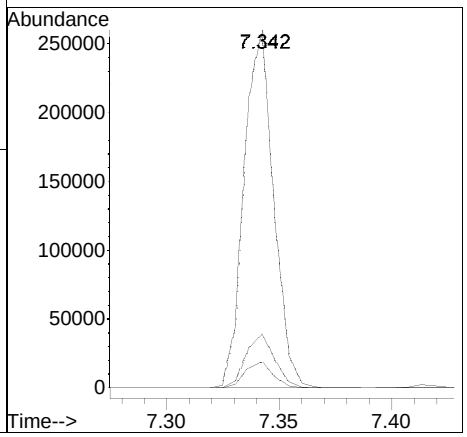


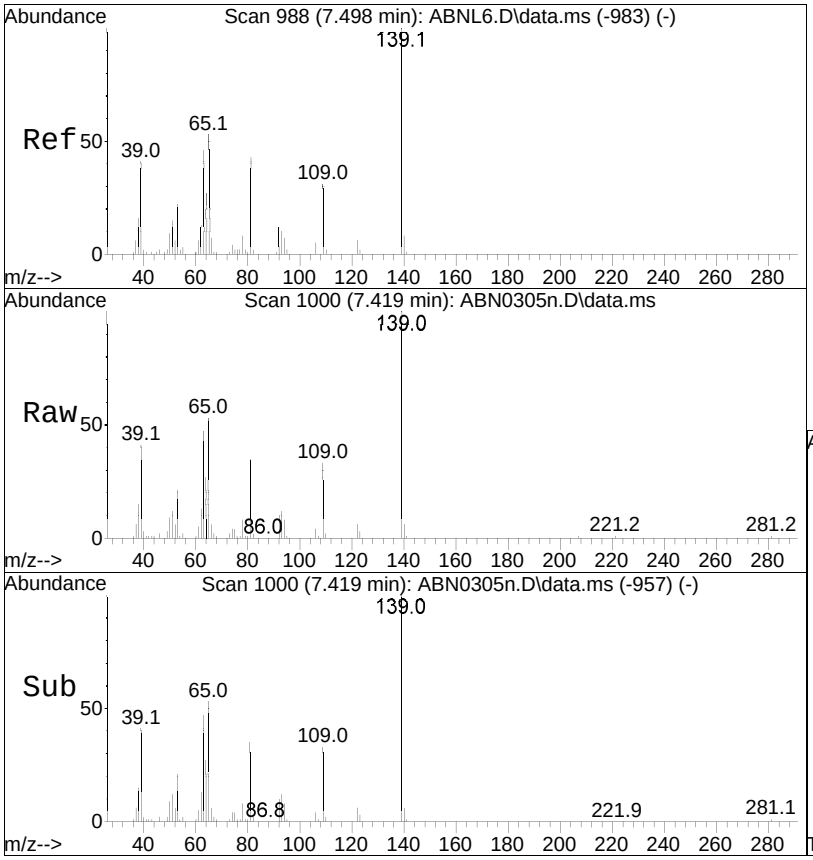


#21
Isophorone
Concen: 5.32 ug/ml
RT: 7.342 min Scan# 987
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 82 Resp: 234789

Ion	Ratio	Lower	Upper
82	100		
138	14.7	14.7	22.1#
95	7.0	5.2	7.8

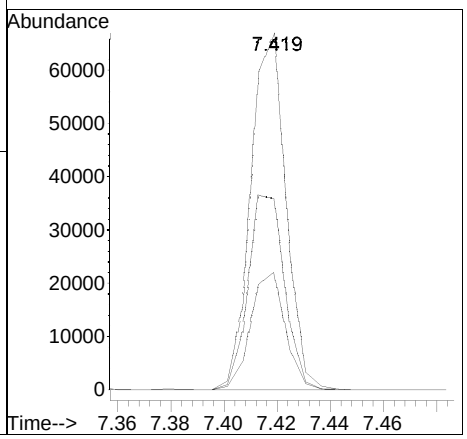


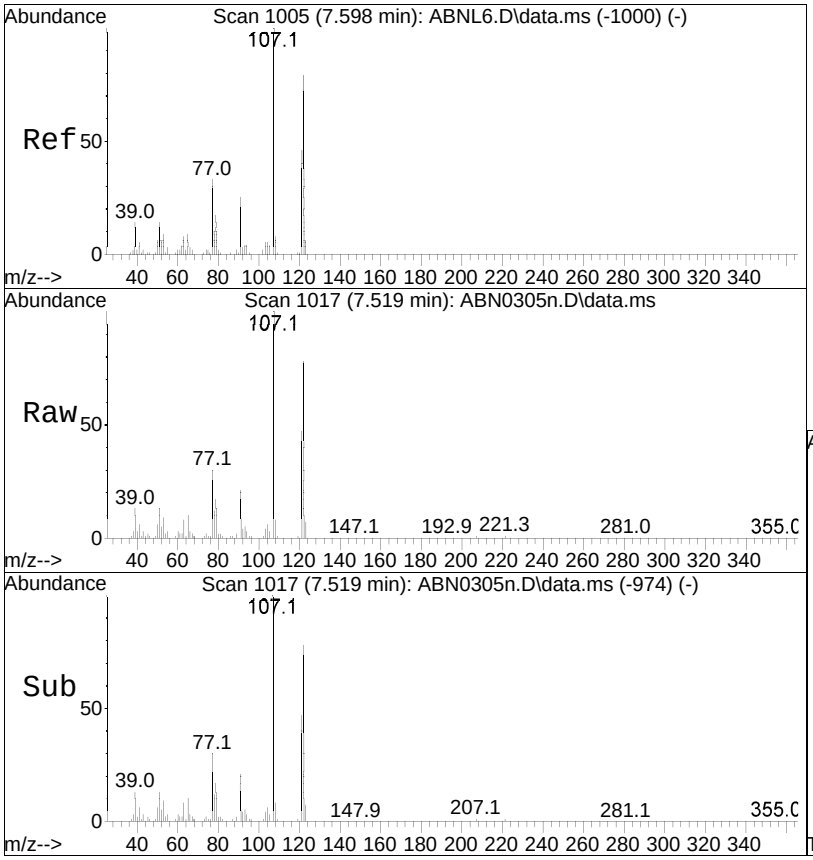


#22
2-Nitrophenol
Concen: 4.70 ug/ml
RT: 7.419 min Scan# 1000
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:139 Resp: 61126

Ion	Ratio	Lower	Upper
139	100		
109	32.7	19.4	29.0#
65	56.7	46.1	69.1

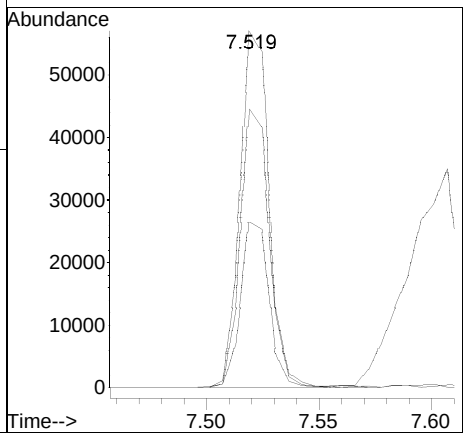


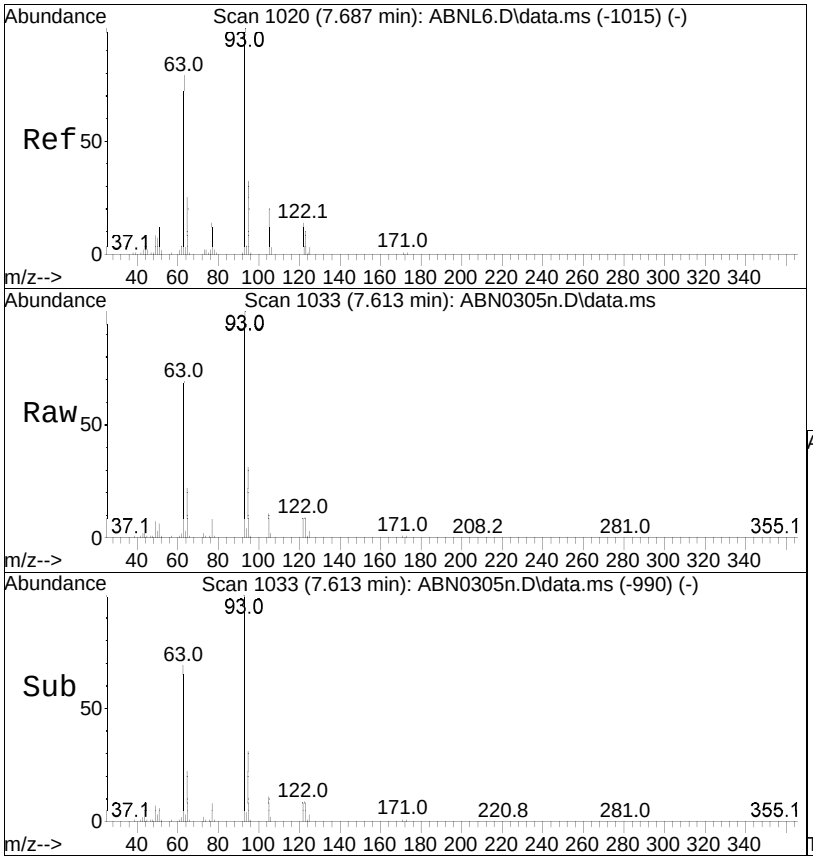


#23
2,4-Dimethylphenol
Concen: 2.51 ug/ml
RT: 7.519 min Scan# 1017
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:107 Resp: 51308

Ion	Ratio	Lower	Upper
107	100		
121	45.7	40.0	60.0
122	77.8	70.2	105.4

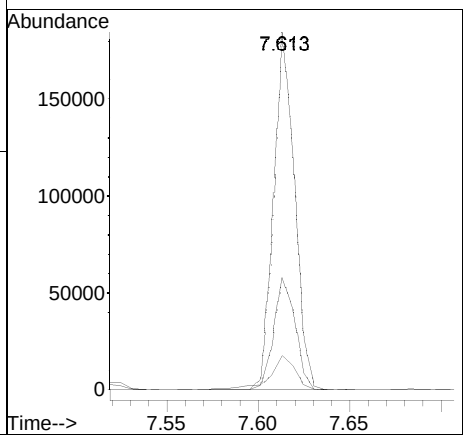


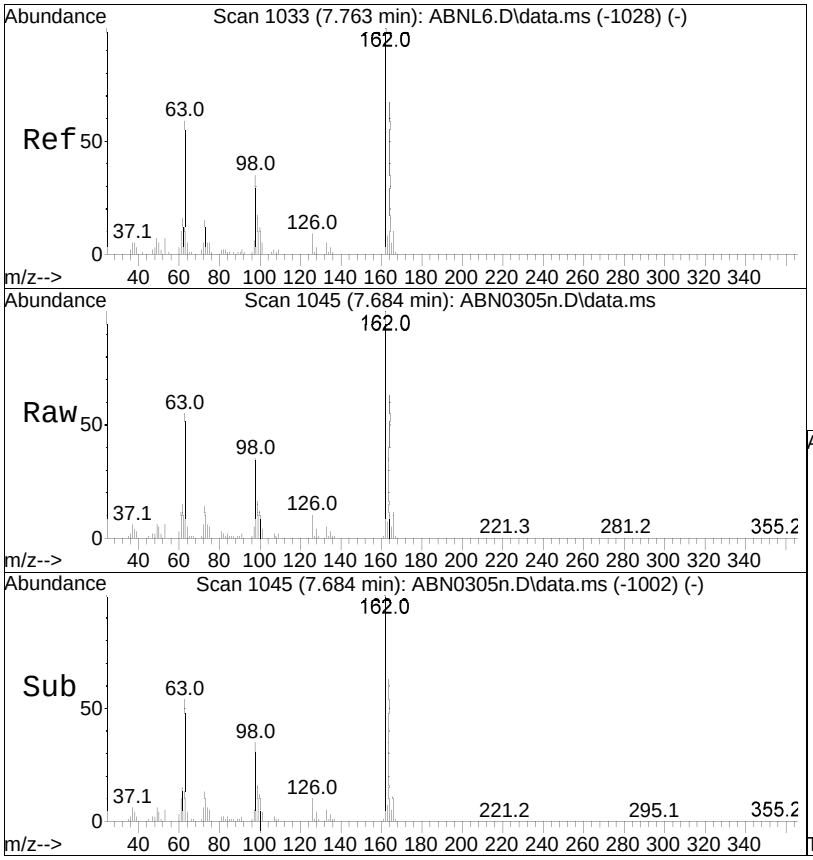


#24
Bis(2-chloroethoxy)methane
Concen: 4.92 ug/ml
RT: 7.613 min Scan# 1033
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 93 Resp: 145006

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	11.9	10.1	15.1

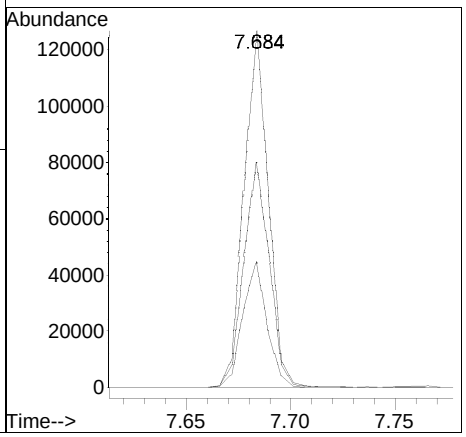


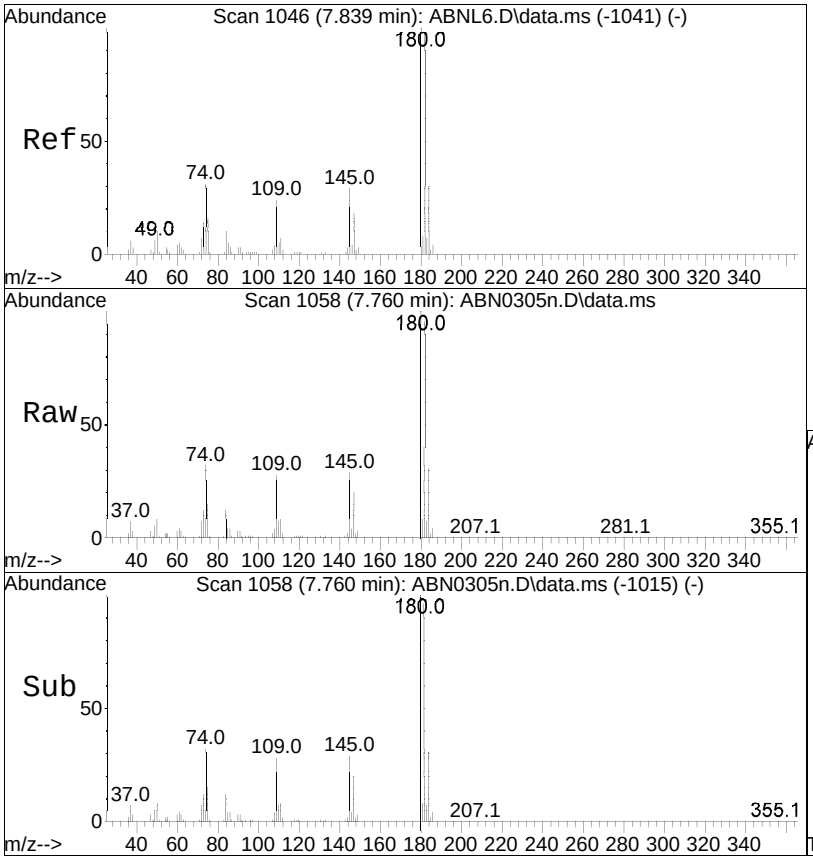


#25
2,4-Dichlorophenol
Concen: 4.47 ug/ml
RT: 7.684 min Scan# 1045
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:162 Resp: 102053

Ion	Ratio	Lower	Upper
162	100		
164	66.7	51.0	76.4
98	35.5	32.2	48.2

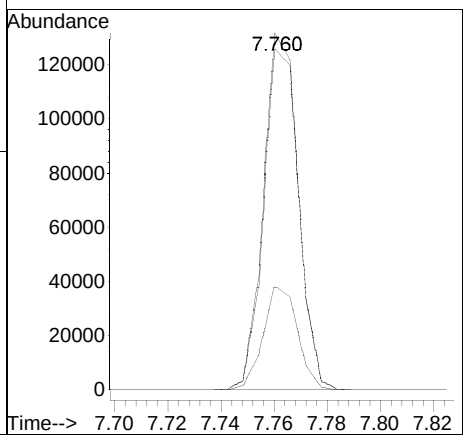


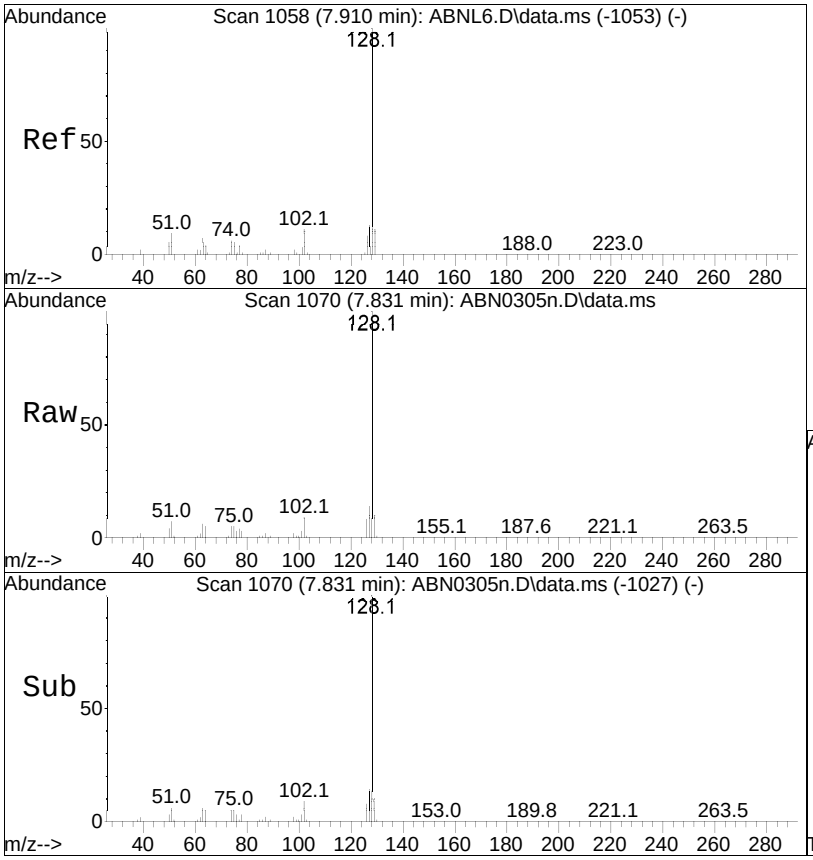


#26
1,2,4-Trichlorobenzene
Concen: 4.51 ug/ml
RT: 7.760 min Scan# 1058
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:180 Resp: 119328

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.0	114.0
145	28.7	25.7	38.5

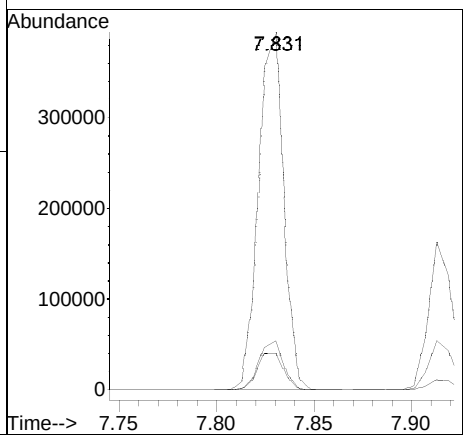


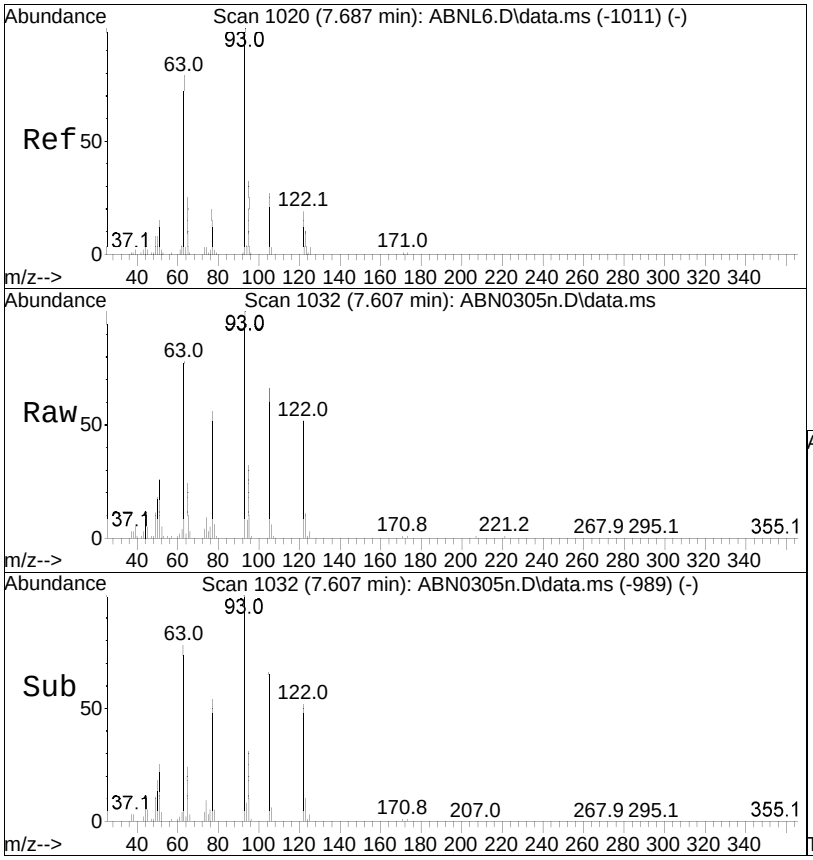


#36
Naphthalene
Concen: 4.71 ug/ml
RT: 7.831 min Scan# 1070
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:128 Resp: 353013

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.5	10.3	15.5

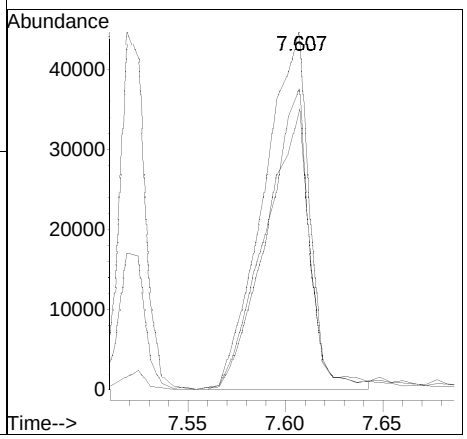


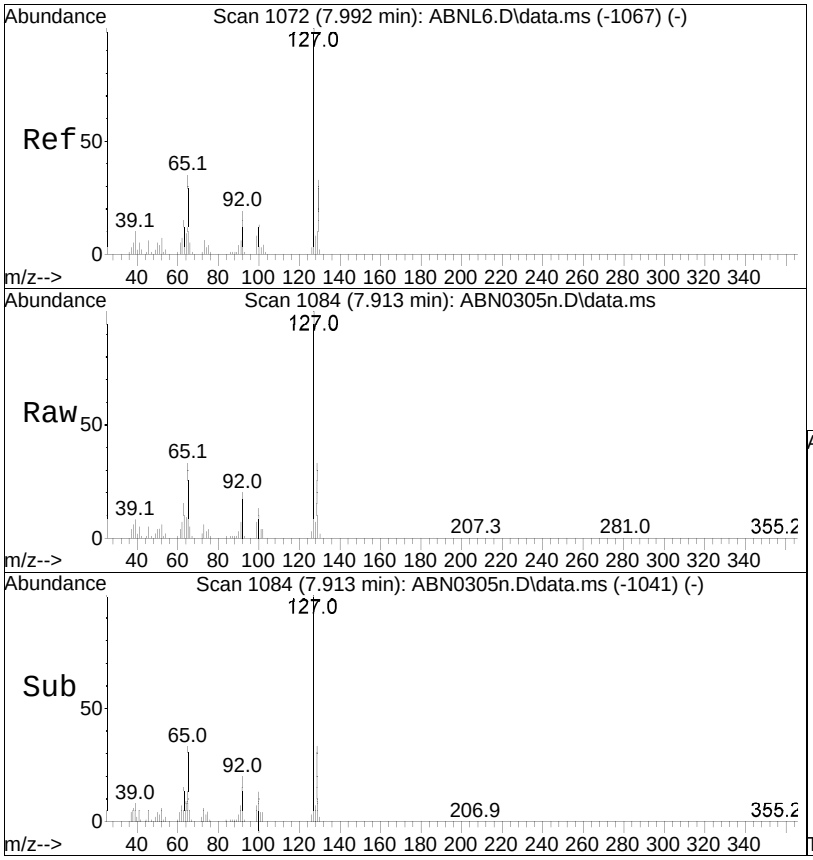


#37
Benzoic Acid
Concen: 5.05 ug/ml
RT: 7.607 min Scan# 1032
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:105 Resp: 73187

Ion	Ratio	Lower	Upper
105	100		
122	77.3	59.9	89.9
77	81.8	60.1	90.1

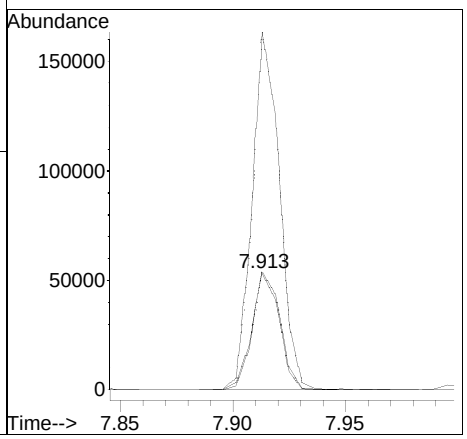


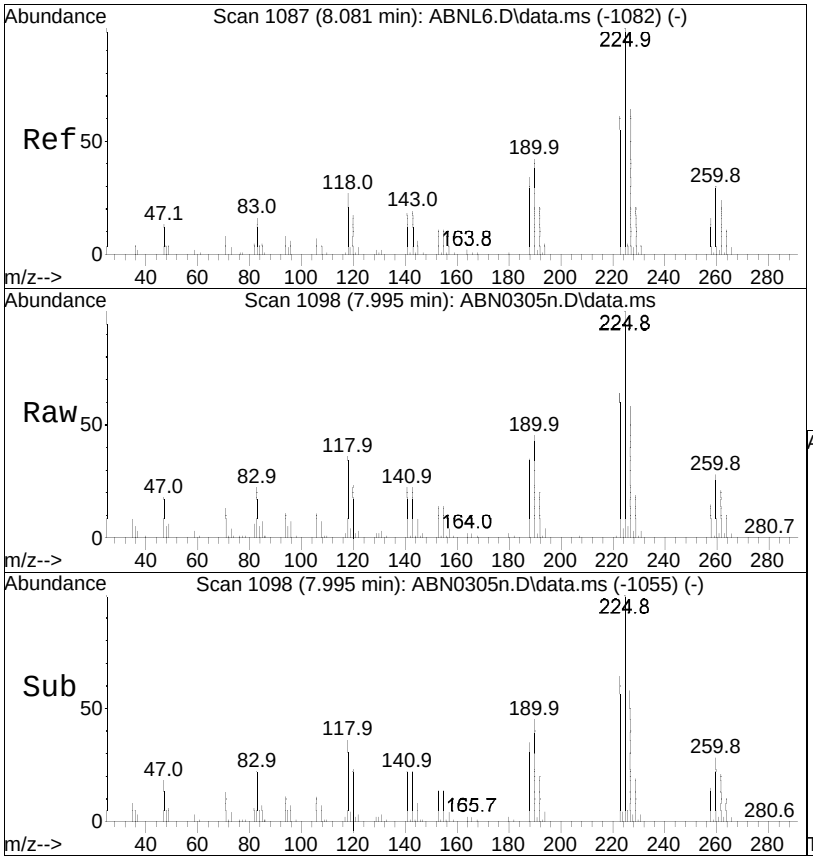


#38
4-Chloroaniline
Concen: 5.38 ug/ml
RT: 7.913 min Scan# 1084
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 65 Resp: 45181

Ion	Ratio	Lower	Upper
65	100		
127	303.0	237.6	356.4
129	101.6	76.3	114.5

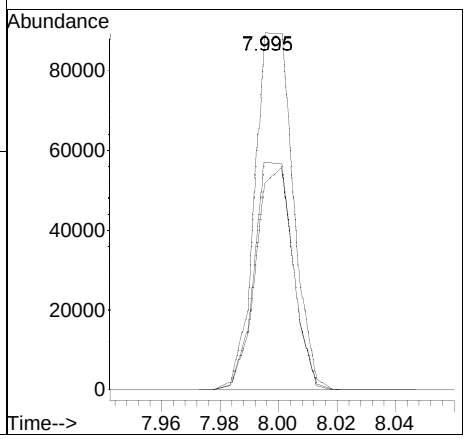


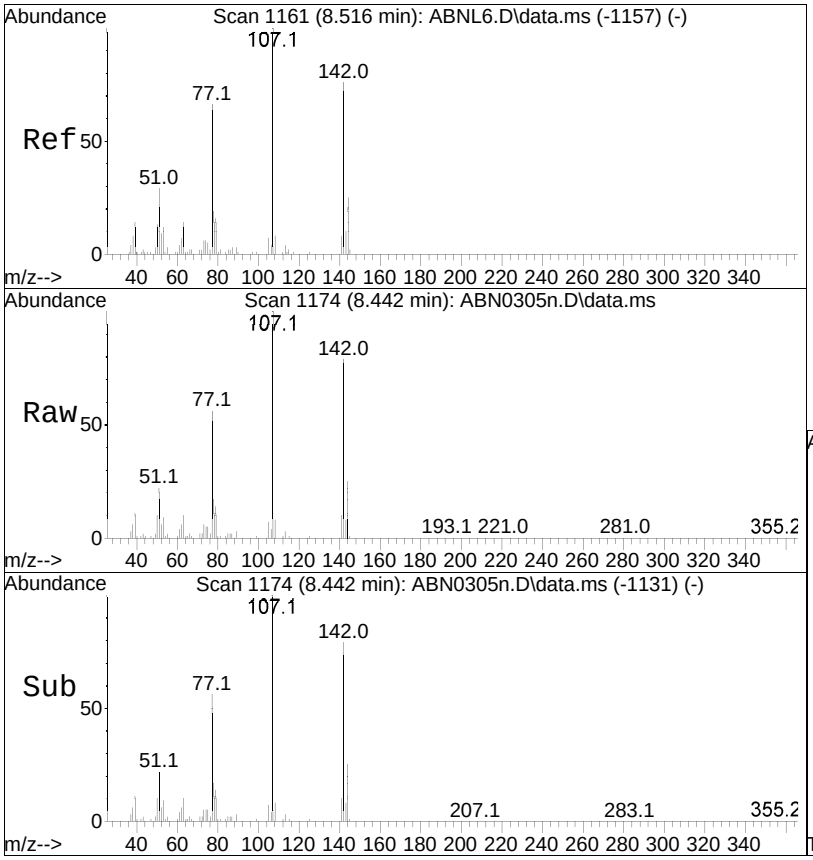


#39
Hexachlorobutadiene
Concen: 5.14 ug/ml
RT: 7.995 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:225 Resp: 81411

Ion	Ratio	Lower	Upper
225	100		
223	64.3	50.3	75.5
227	61.1	52.2	78.2

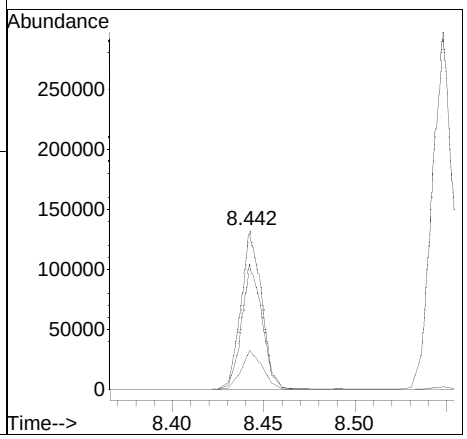


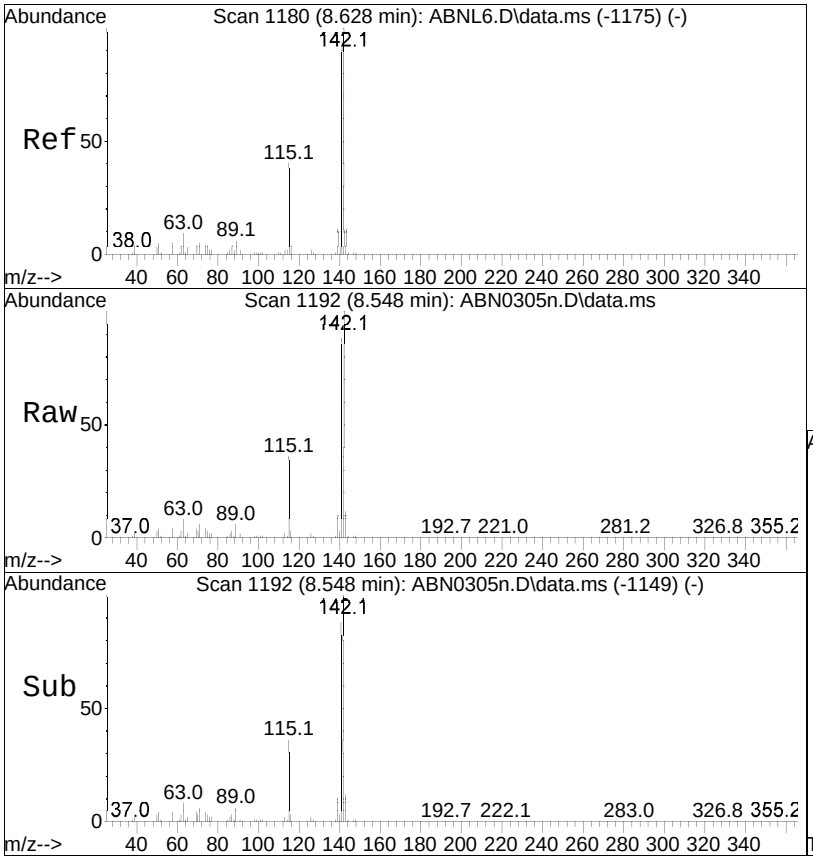


#40
p-Chloro-m-cresol
Concen: 5.33 ug/ml
RT: 8.442 min Scan# 1174
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:107 Resp: 104796

Ion	Ratio	Lower	Upper
107	100		
144	25.2	20.9	31.3
142	77.5	66.1	99.1

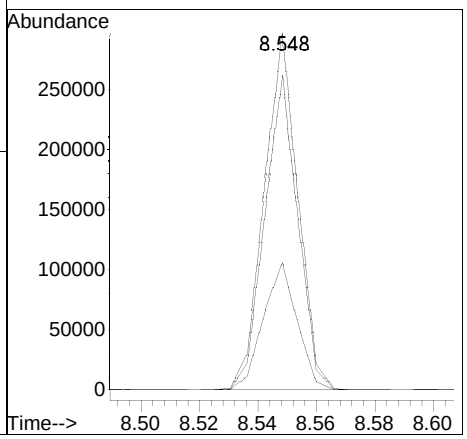


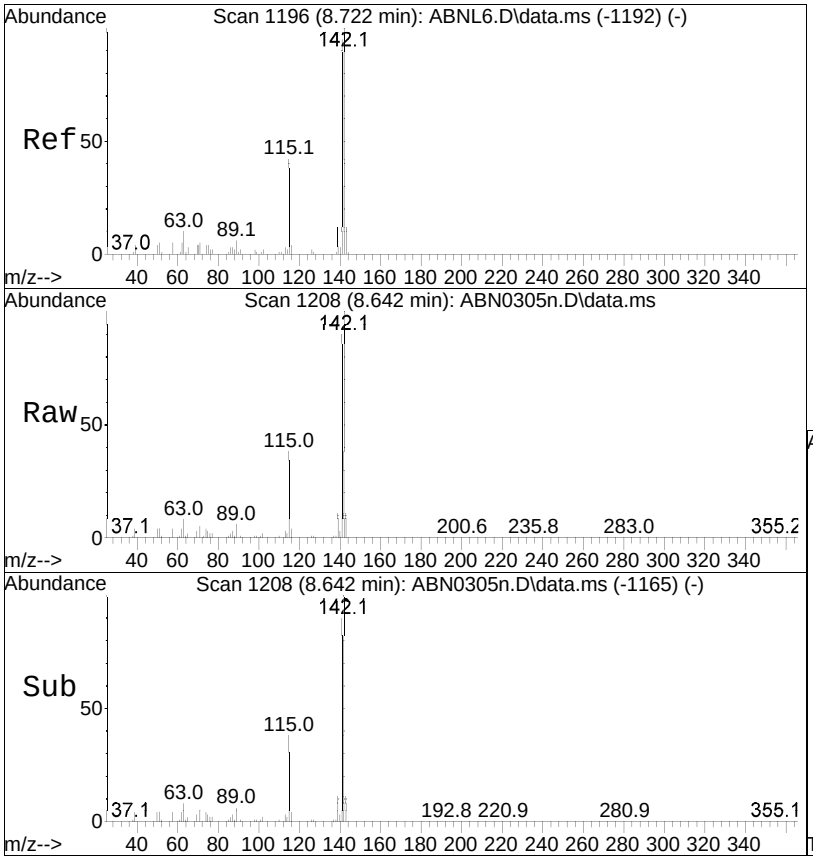


#41
2-Methylnaphthalene
Concen: 4.75 ug/ml
RT: 8.548 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:142 Resp: 236938

Ion	Ratio	Lower	Upper
142	100		
141	86.3	69.6	104.4
115	35.8	26.6	40.0

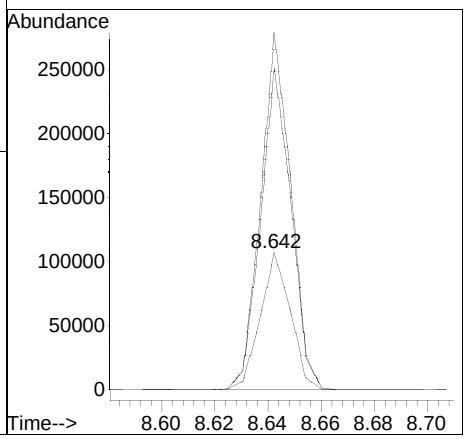


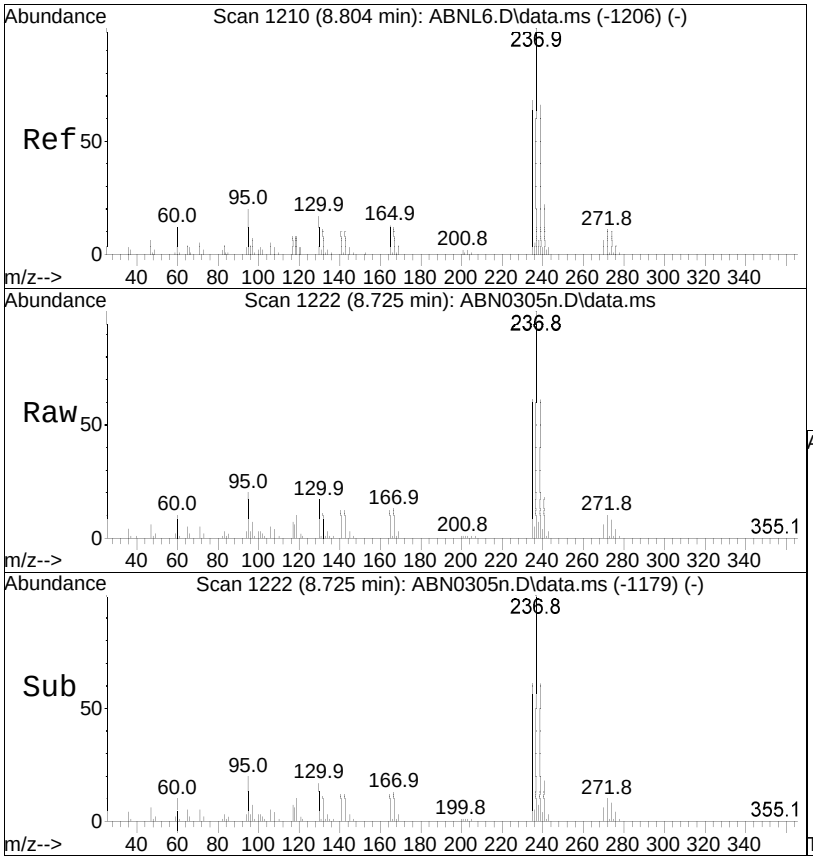


#42
1-Methylnaphthalene
Concen: 5.24 ug/ml
RT: 8.642 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:115 Resp: 84604

Ion	Ratio	Lower	Upper
115	100		
141	236.0	207.8	311.6
142	258.8	226.8	340.2

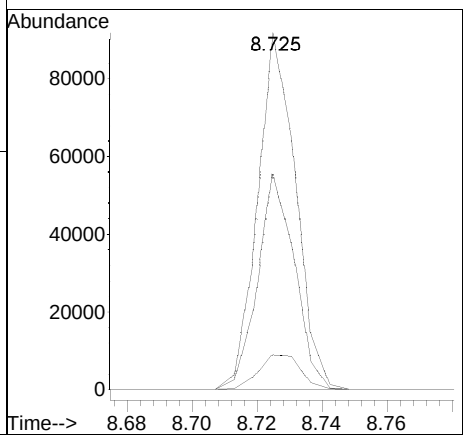


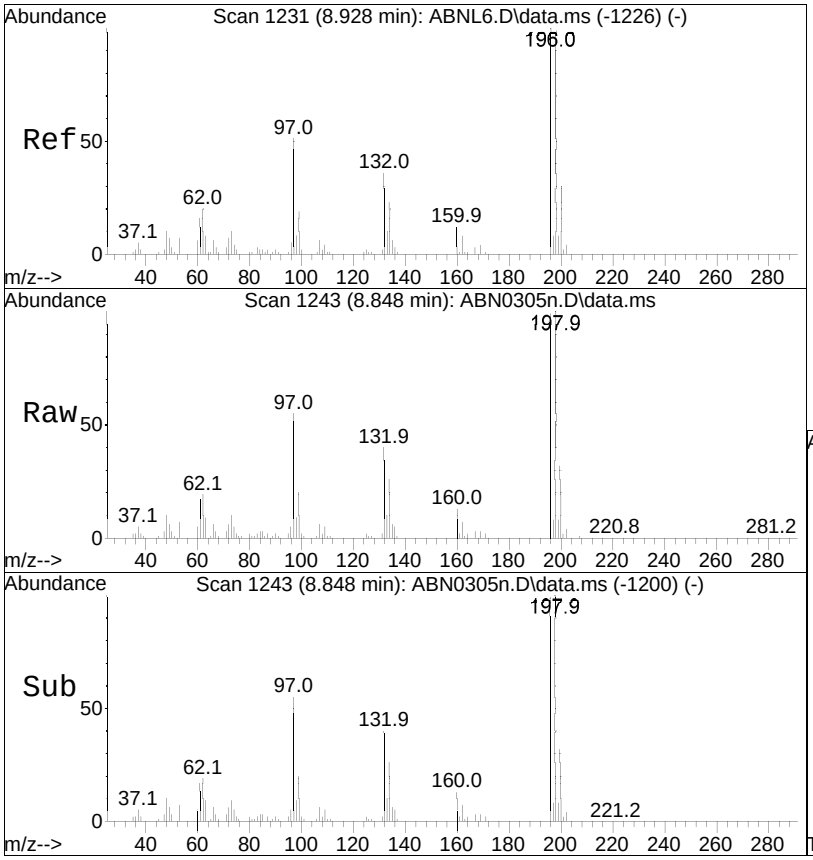


#43
Hexachlorocyclopentadiene
Concen: 4.26 ug/ml
RT: 8.725 min Scan# 1222
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:237 Resp: 74009

Ion	Ratio	Lower	Upper
237	100		
235	58.9	49.7	74.5
272	10.9	9.8	14.6

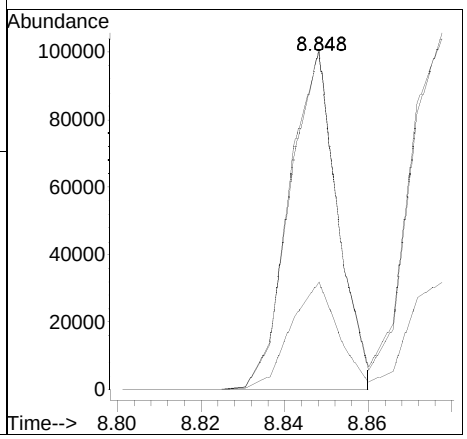


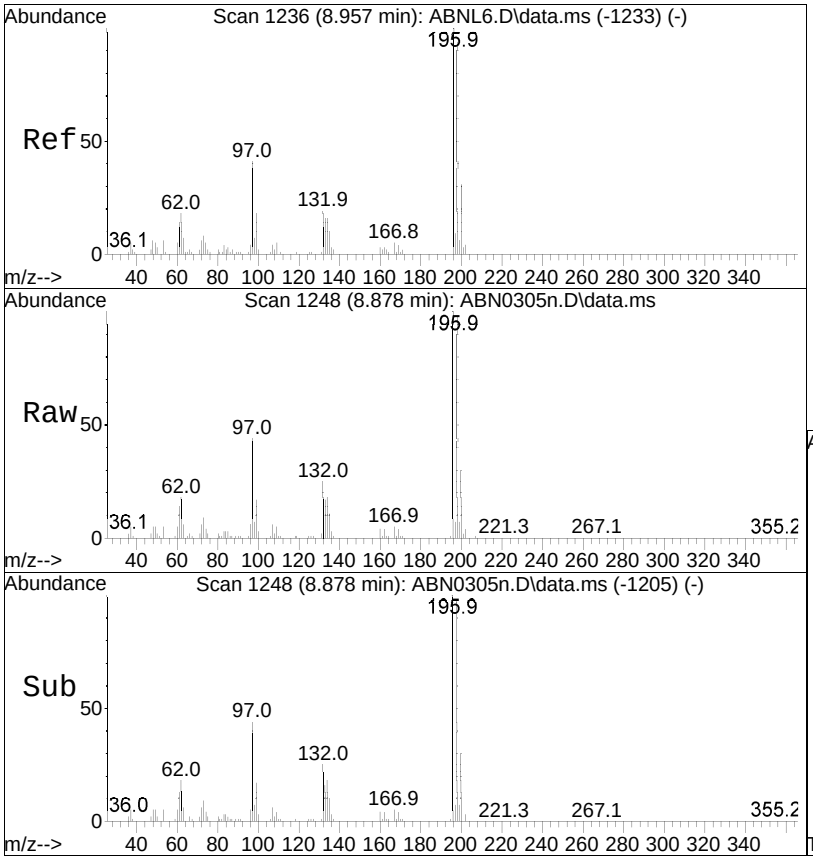


#44
2,4,6-Trichlorophenol
Concen: 4.42 ug/ml
RT: 8.848 min Scan# 1243
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:196 Resp: 80642

Ion	Ratio	Lower	Upper
196	100		
198	99.8	77.5	116.3
200	31.8	23.8	35.6

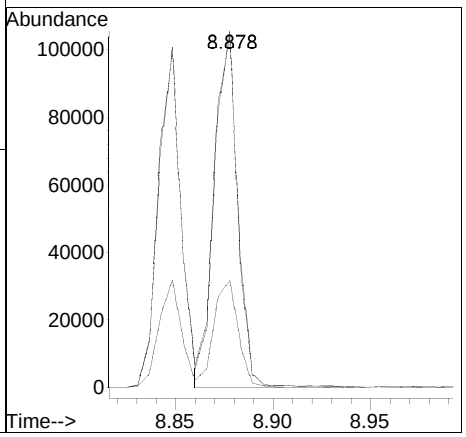


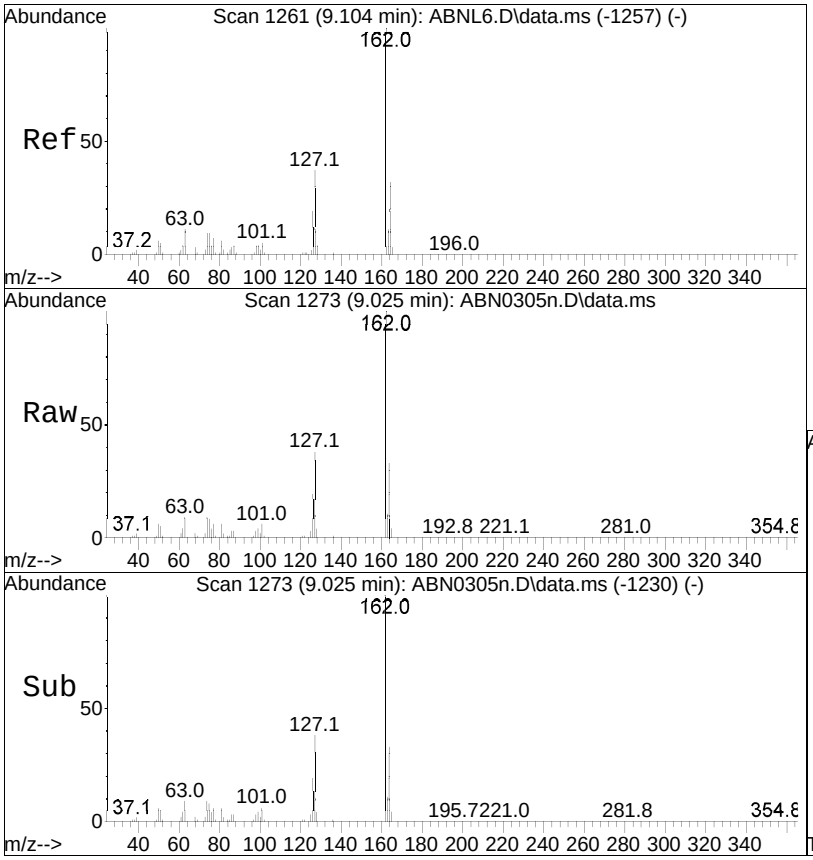


#45
2,4,5-Trichlorophenol
Concen: 4.58 ug/ml
RT: 8.878 min Scan# 1248
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:196 Resp: 86656

Ion	Ratio	Lower	Upper
196	100		
200	31.8	25.4	38.0
198	100.9	78.0	117.0

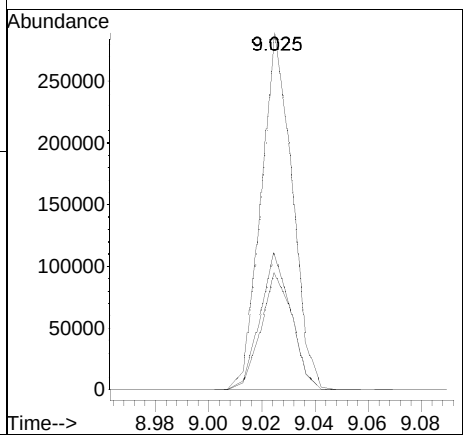


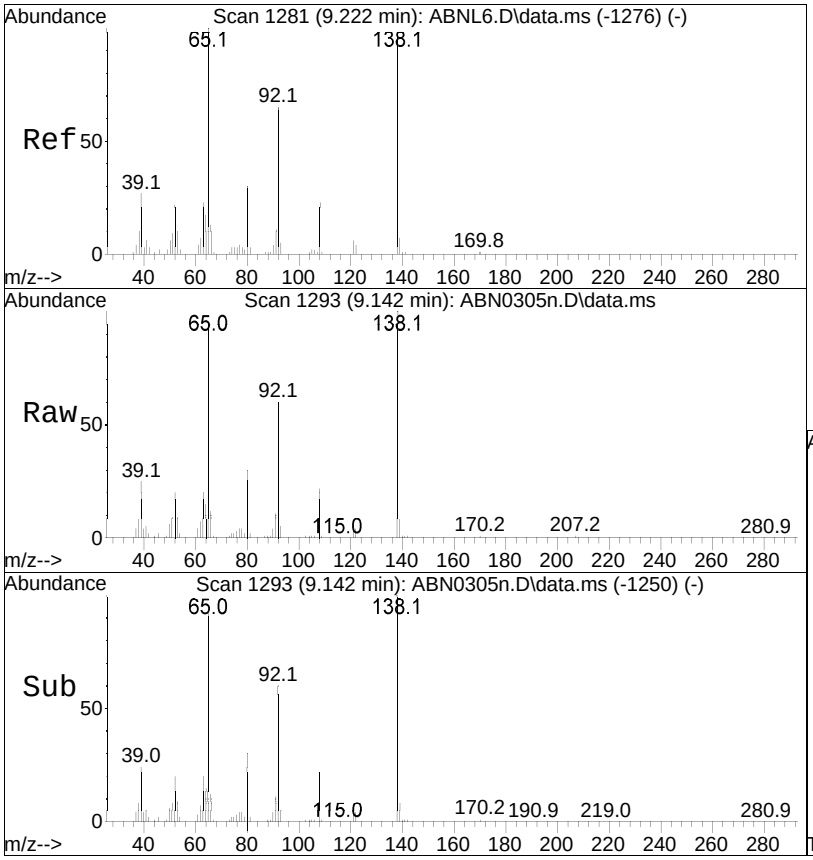


#47
2-Chloronaphthalene
Concen: 4.49 ug/ml
RT: 9.025 min Scan# 1273
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:162 Resp: 233528

Ion	Ratio	Lower	Upper
162	100		
127	38.2	32.2	48.4
164	33.9	25.7	38.5

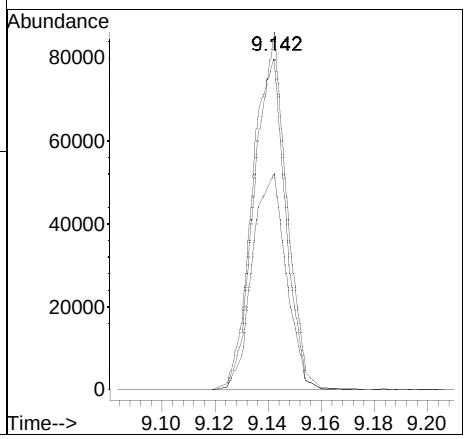


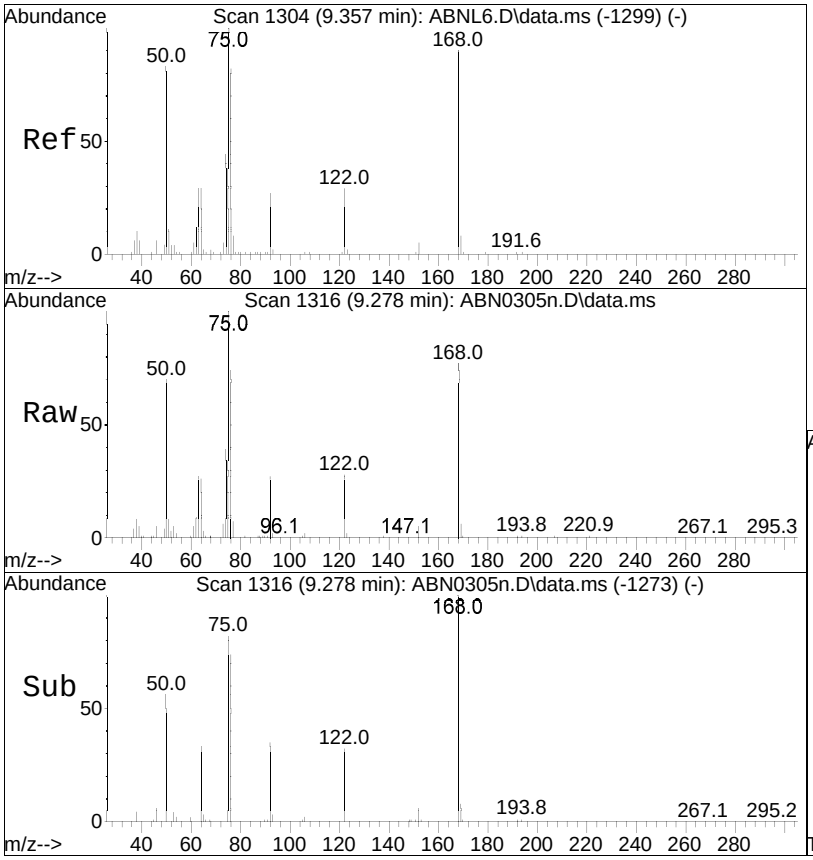


#48
2-Nitroaniline
Concen: 4.77 ug/ml
RT: 9.142 min Scan# 1293
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:138 Resp: 70610

Ion	Ratio	Lower	Upper
138	100		
92	64.9	53.5	80.3
65	98.3	86.3	129.5

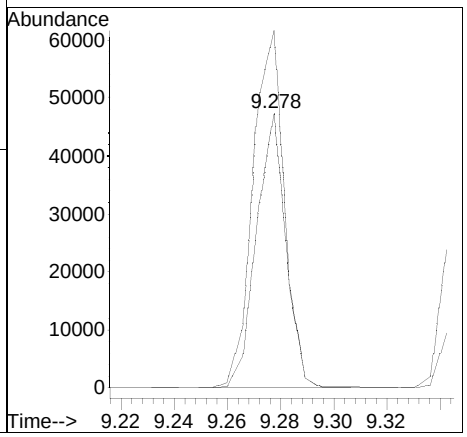


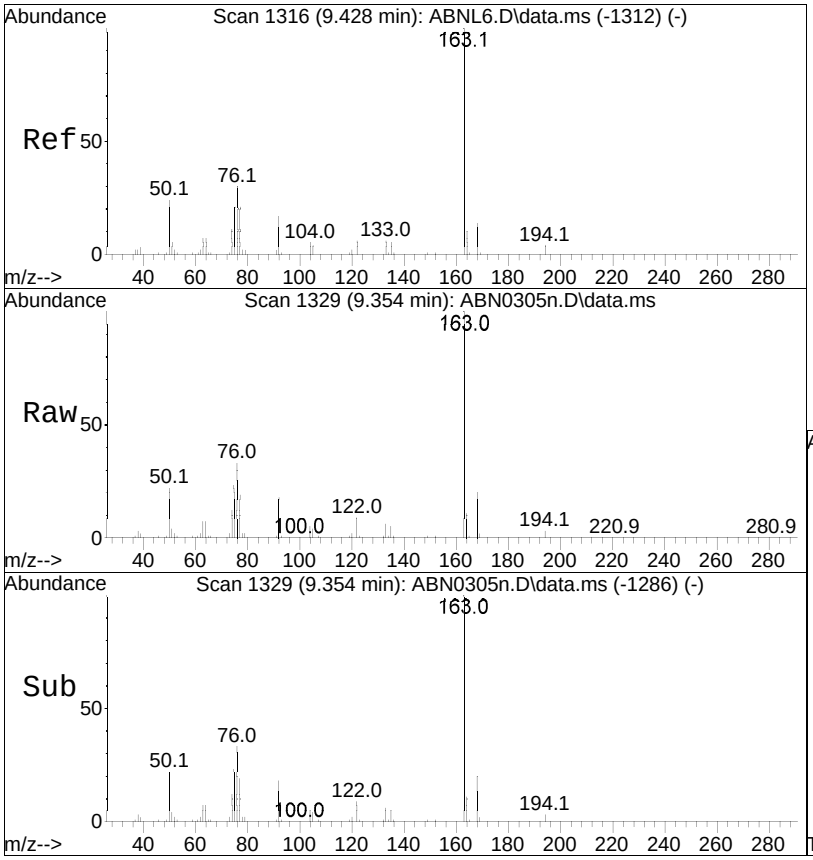


#49
1,4-Dinitrobenzene
Concen: 4.81 ug/ml
RT: 9.278 min Scan# 1316
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:168 Resp: 36360

Ion	Ratio	Lower	Upper
168	100		
75	138.5	121.8	182.8

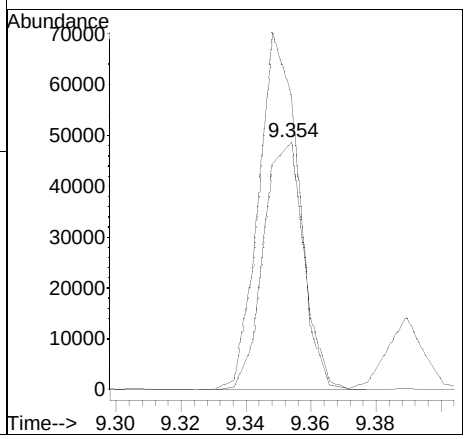


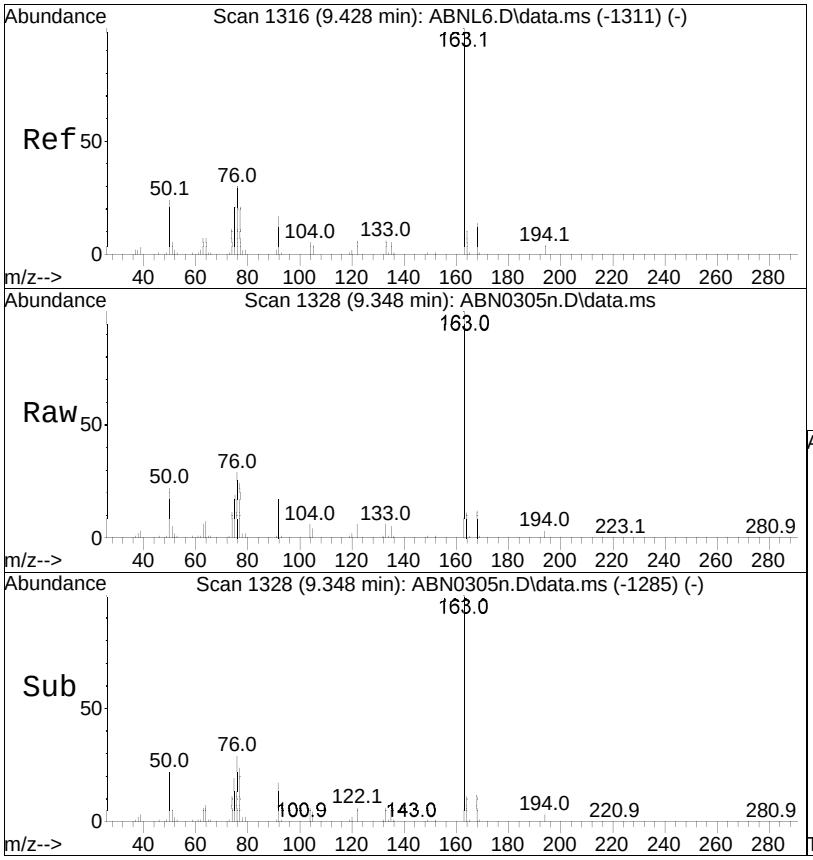


#50
1,3-Dinitrobenzene
Concen: 5.06 ug/ml
RT: 9.354 min Scan# 1329
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:168 Resp: 41976

Ion	Ratio	Lower	Upper
168	100		
75	140.2	22.7	34.1#

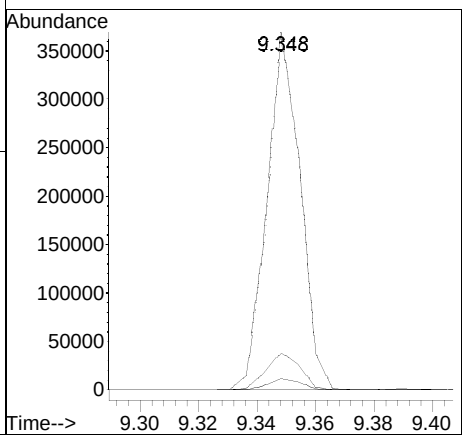


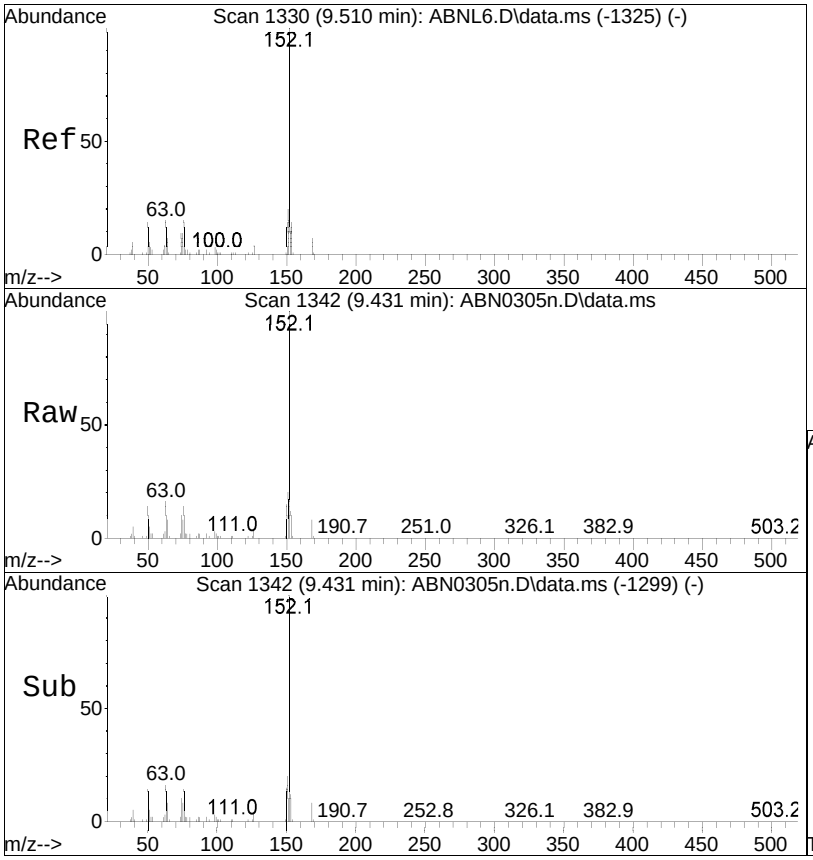


#51
Dimethyl phthalate
Concen: 4.75 ug/ml
RT: 9.348 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:163 Resp: 288185

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	10.8	7.9	11.9

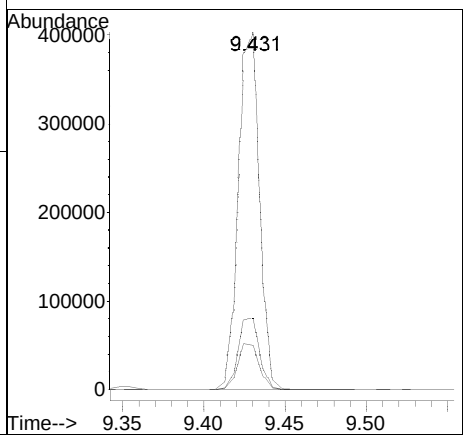


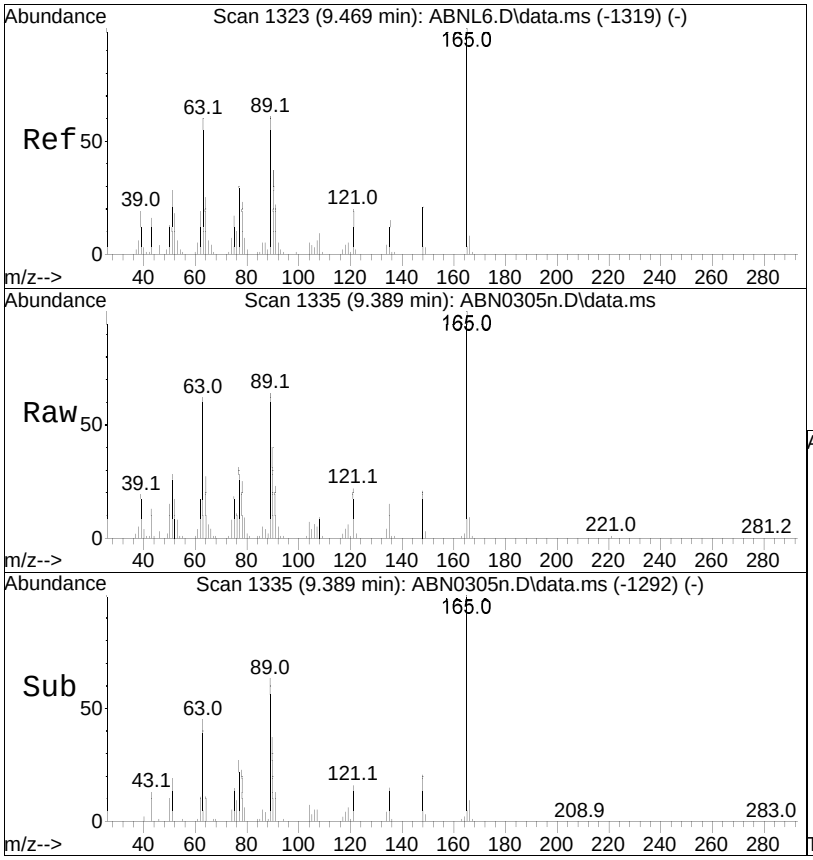


#52
Acenaphthylene
Concen: 4.61 ug/ml
RT: 9.431 min Scan# 1342
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:152 Resp: 358047

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.6
153	13.2	10.5	15.7

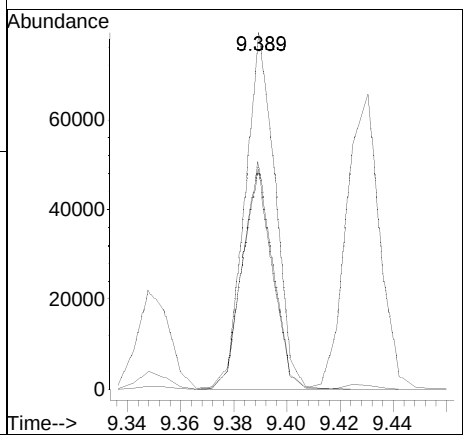


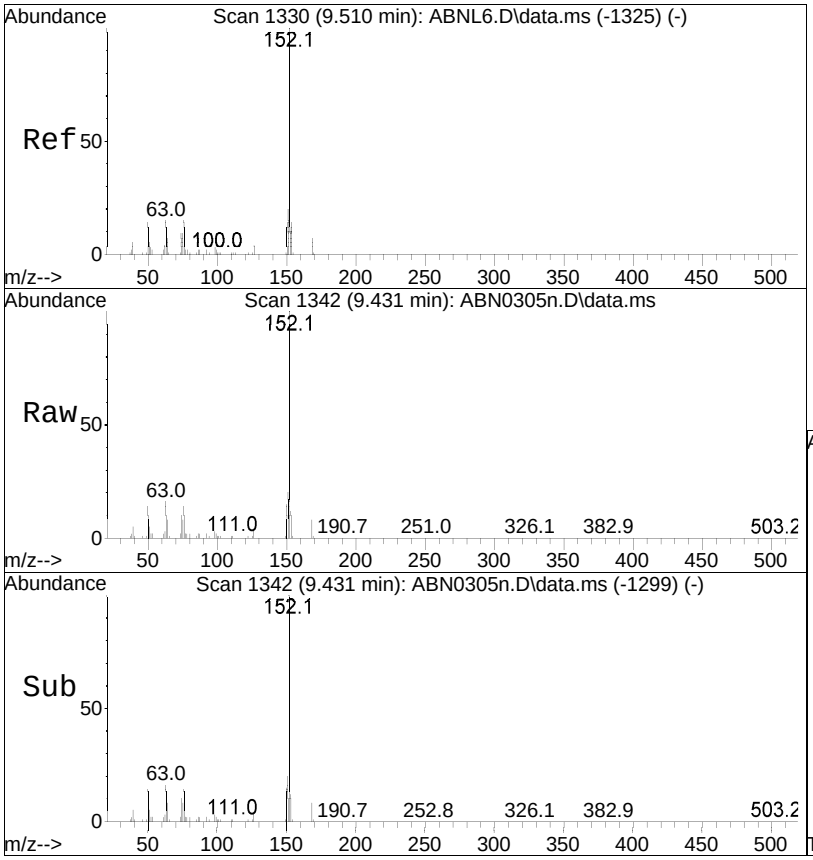


#53
2,6-Dinitrotoluene
Concen: 5.07 ug/ml
RT: 9.389 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:165 Resp: 62557

Ion	Ratio	Lower	Upper
165	100		
89	64.2	54.2	81.2
63	62.5	64.2	96.2#

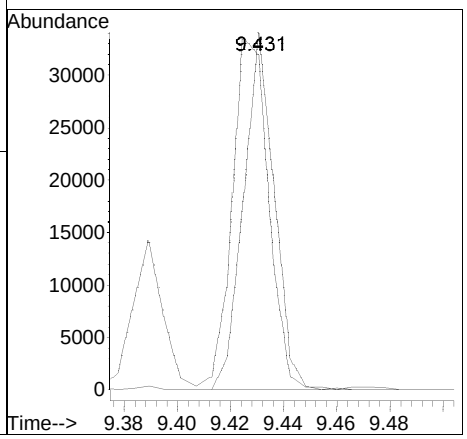


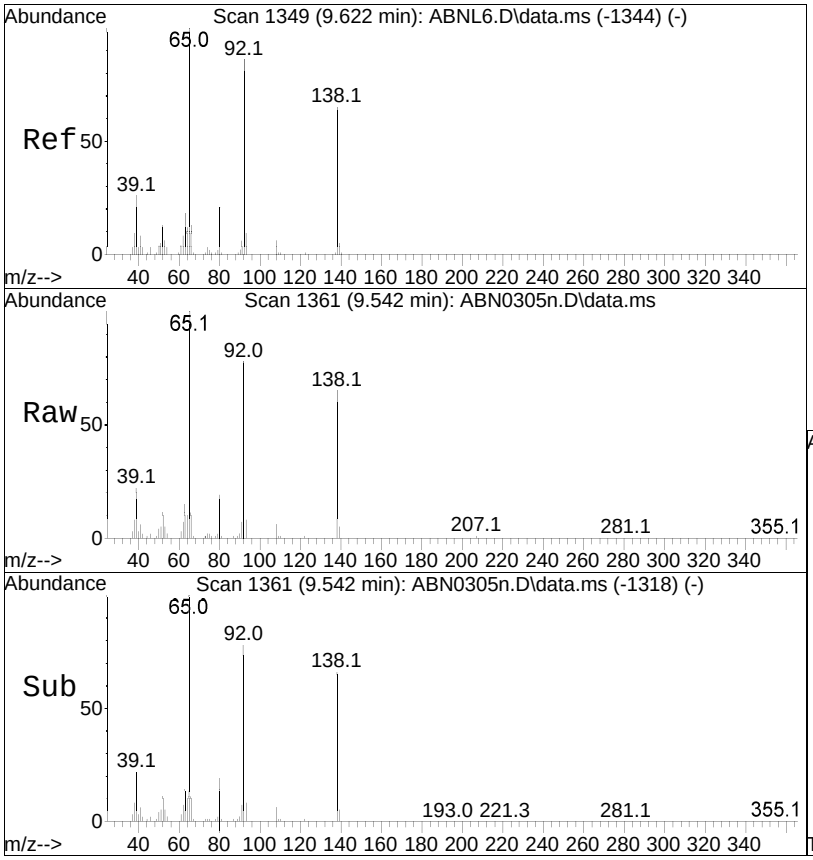


#54
1,2-Dinitrobenzene
Concen: 5.09 ug/ml
RT: 9.431 min Scan# 1342
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:168 Resp: 27220

Ion	Ratio	Lower	Upper
168	100		
75	116.5	30.9	46.3#

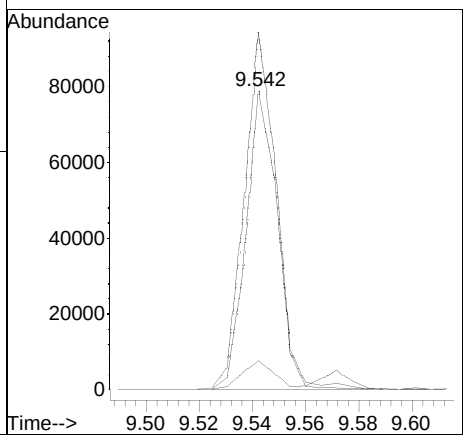


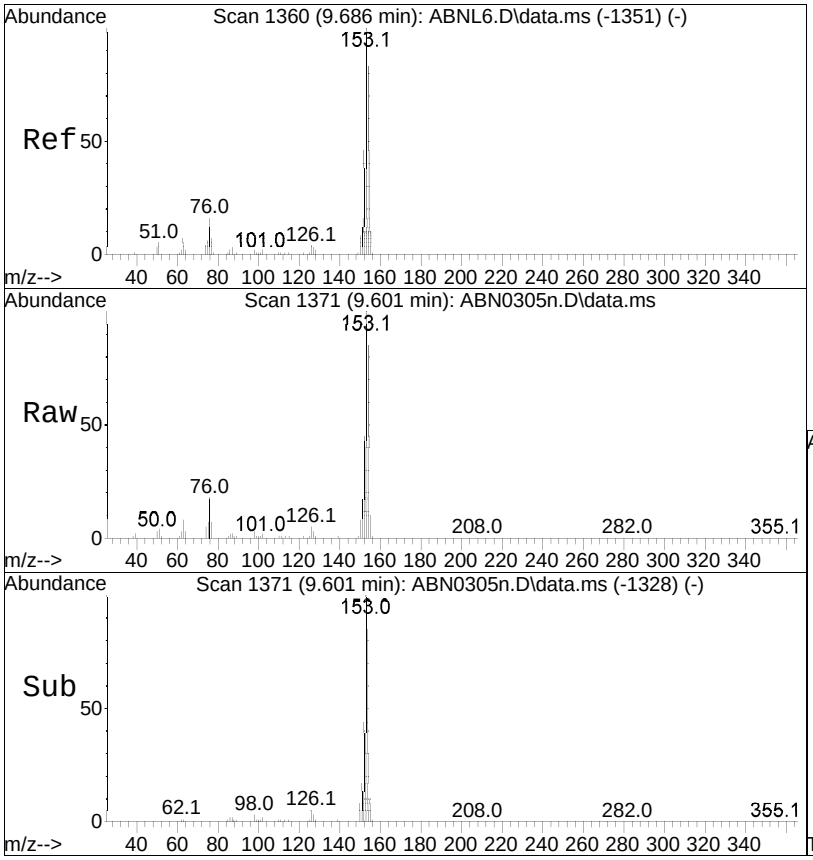


#64
3-Nitroaniline
Concen: 4.63 ug/ml
RT: 9.542 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:138 Resp: 63553

Ion	Ratio	Lower	Upper
138	100		
92	123.7	93.4	140.2
108	10.0	9.5	14.3

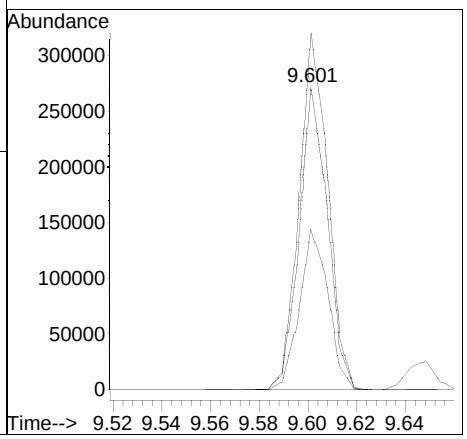


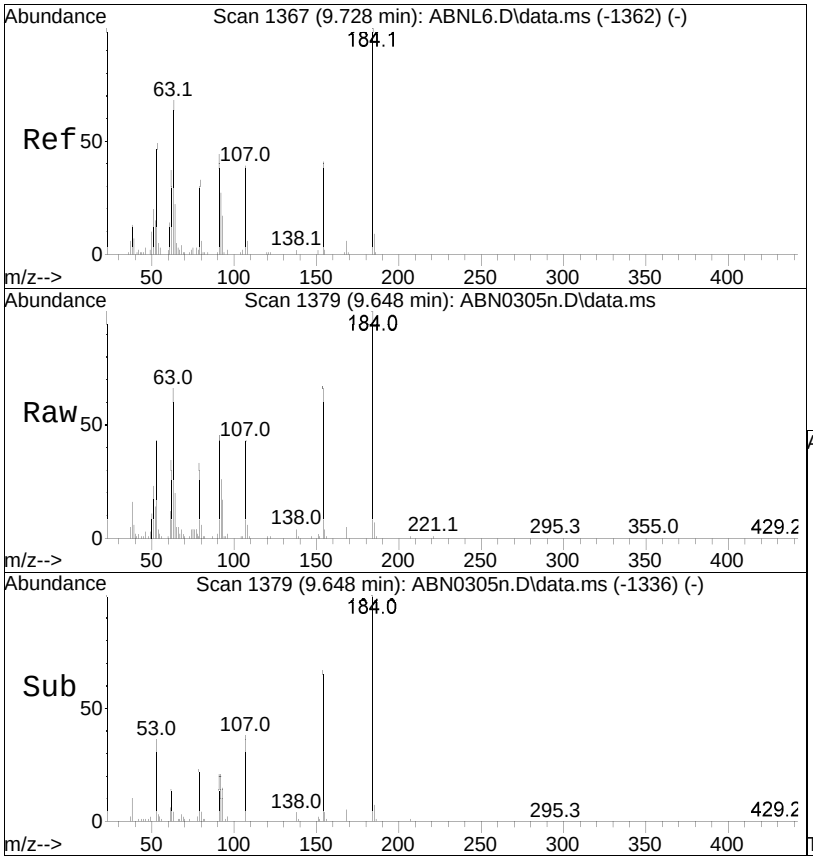


#65
Acenaphthene
Concen: 4.44 ug/ml
RT: 9.601 min Scan# 1371
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:154 Resp: 218466

Ion	Ratio	Lower	Upper
154	100		
153	120.2	85.3	127.9
152	54.1	41.4	62.0

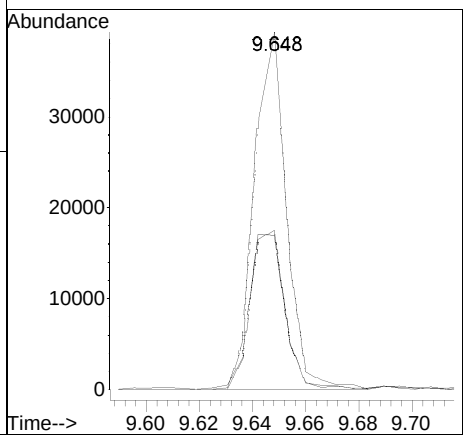


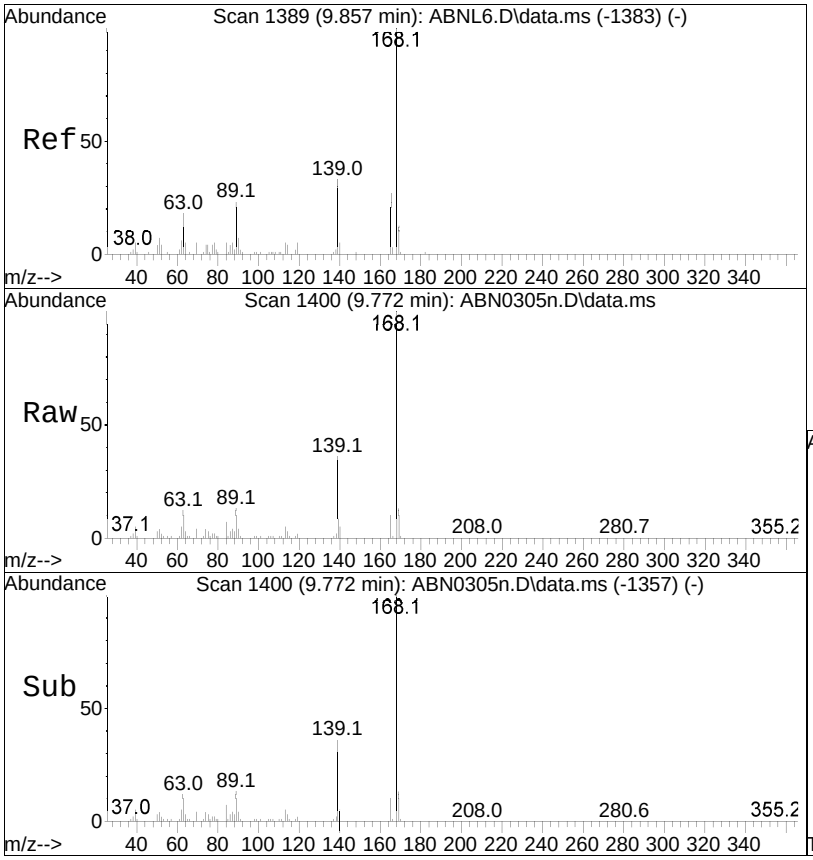


#66
2,4-Dinitrophenol
Concen: 4.20 ug/ml
RT: 9.648 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:184 Resp: 32638

Ion	Ratio	Lower	Upper
184	100		
107	47.6	37.7	56.5
91	48.9	46.3	69.5

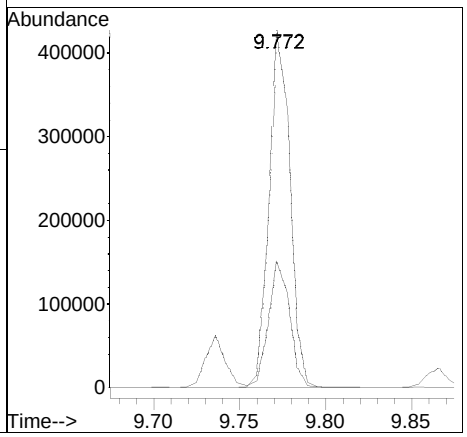


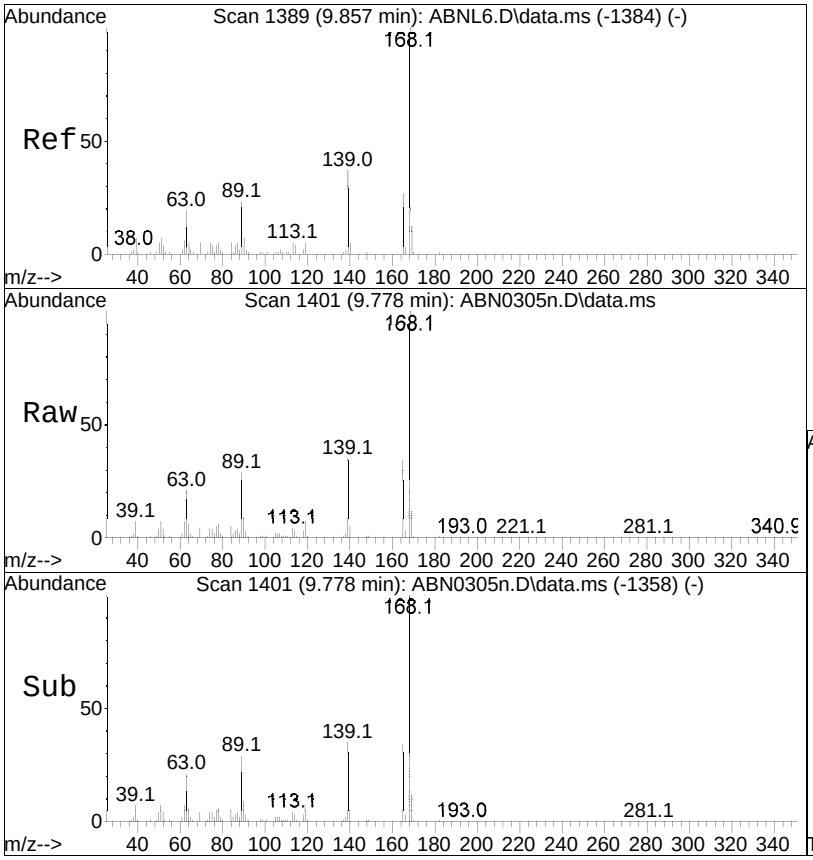


#67
Dibenzofuran
Concen: 4.44 ug/ml
RT: 9.772 min Scan# 1400
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:168 Resp: 353697

Ion	Ratio	Lower	Upper
168	100		
139	36.3	31.4	47.2

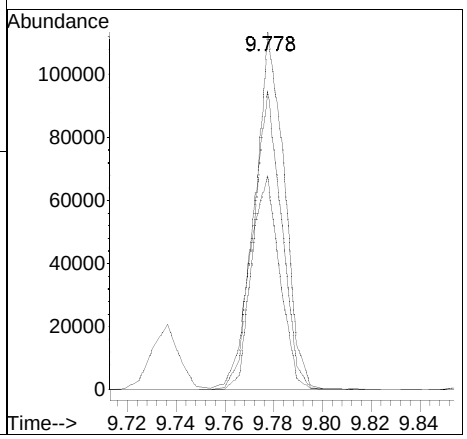


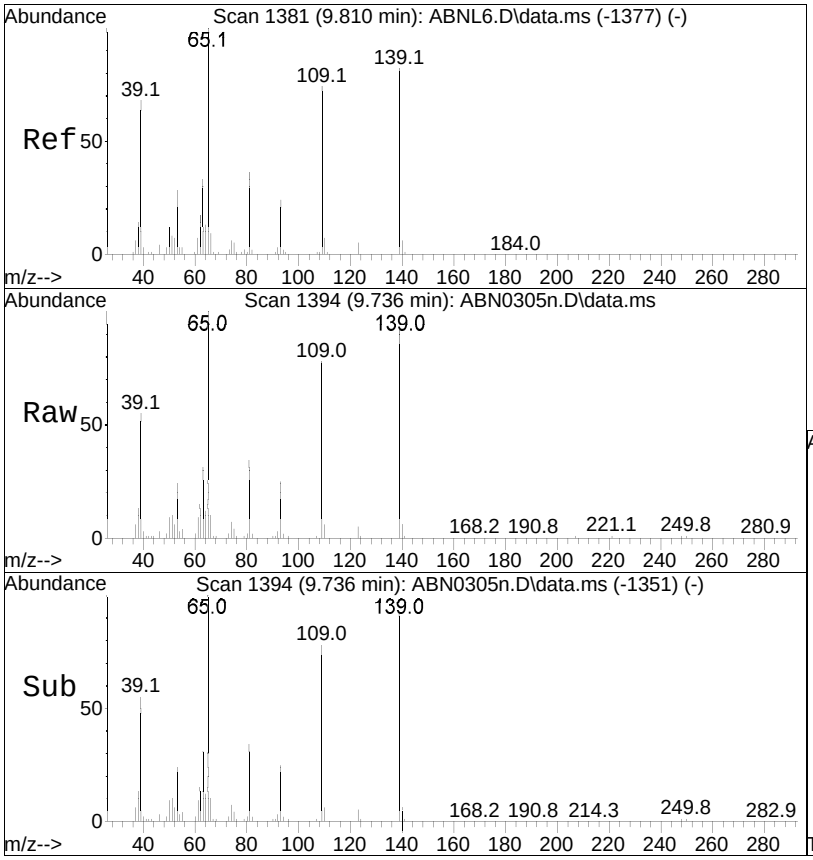


#68
2,4-Dinitrotoluene
Concen: 5.04 ug/ml
RT: 9.778 min Scan# 1401
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:165 Resp: 89890

Ion	Ratio	Lower	Upper
165	100		
89	86.2	72.0	108.0
63	66.5	52.7	79.1

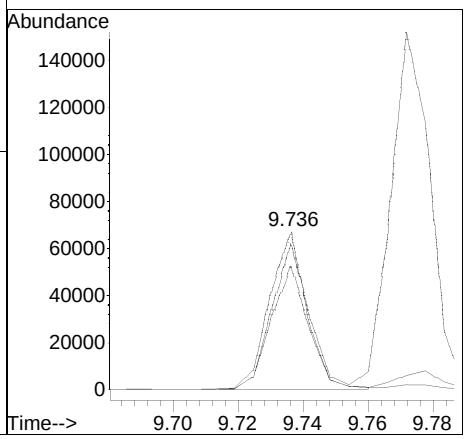


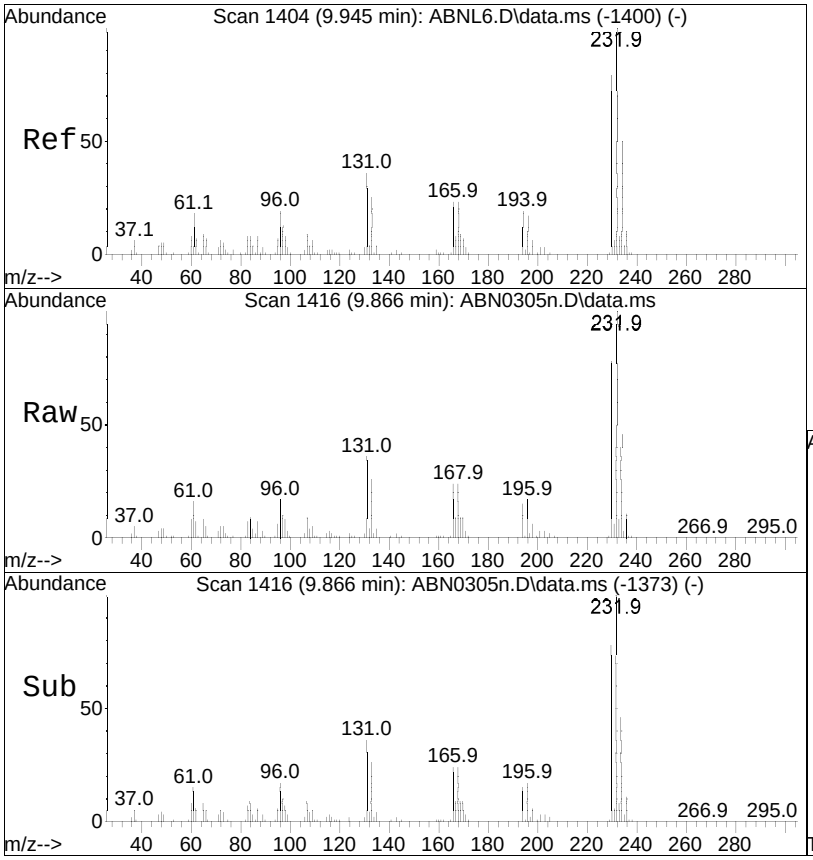


#69
4-Nitrophenol
Concen: 5.26 ug/ml
RT: 9.736 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 65 Resp: 53475

Ion	Ratio	Lower	Upper
65	100		
109	79.7	47.4	71.2#
139	92.5	76.6	115.0

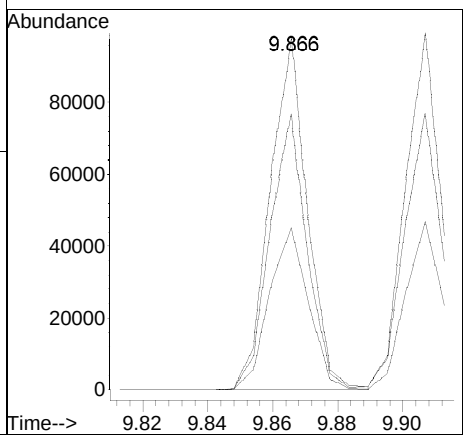


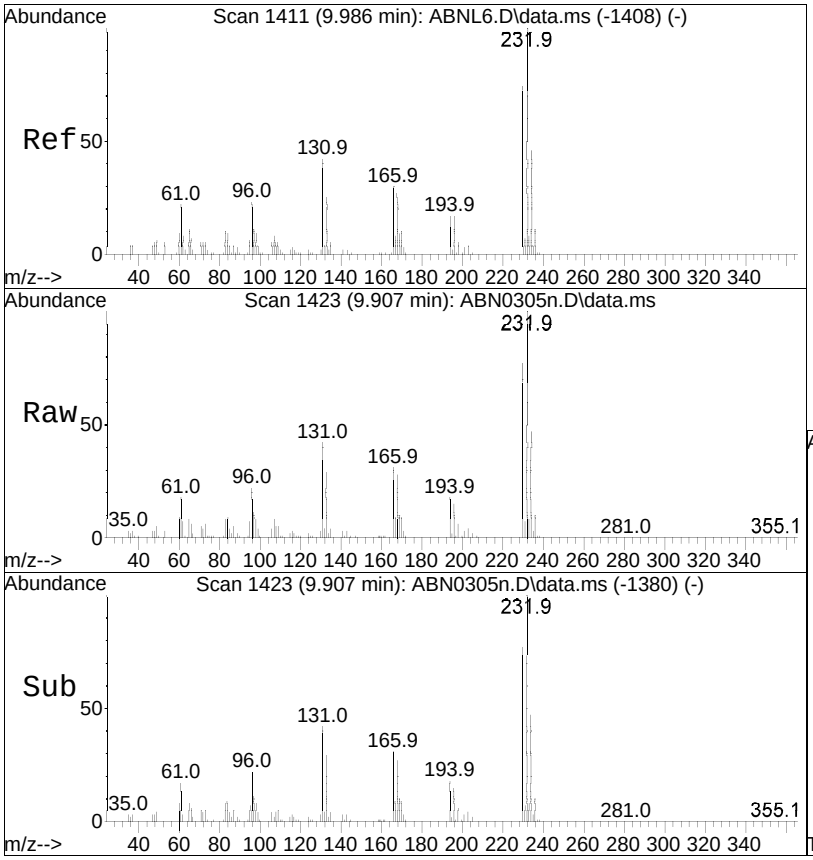


#70
2,3,5,6-Tetrachlorophenol
Concen: 4.71 ug/ml
RT: 9.866 min Scan# 1416
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:232 Resp: 78153

Ion	Ratio	Lower	Upper
232	100		
230	77.7	64.2	96.4
234	48.5	38.1	57.1

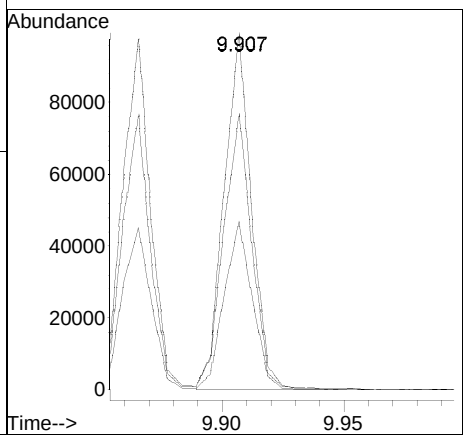


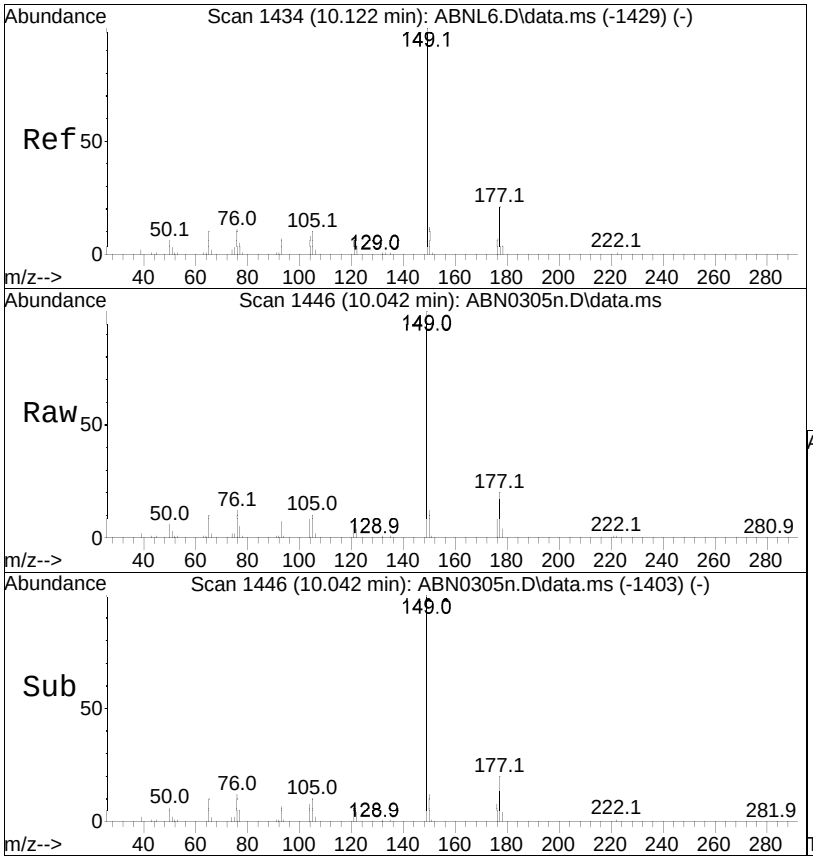


#71
2,3,4,6-Tetrachlorophenol
Concen: 4.77 ug/ml
RT: 9.907 min Scan# 1423
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:232 Resp: 78097

Ion	Ratio	Lower	Upper
232	100		
230	79.5	61.8	92.8
234	48.5	36.2	54.2

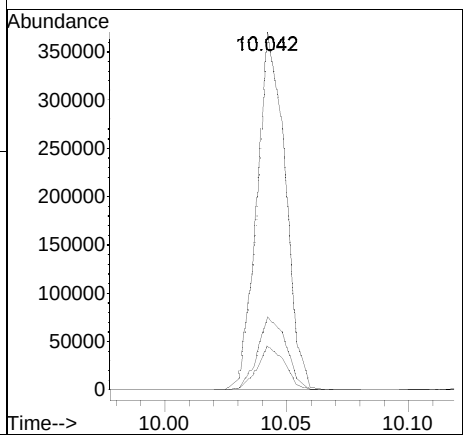


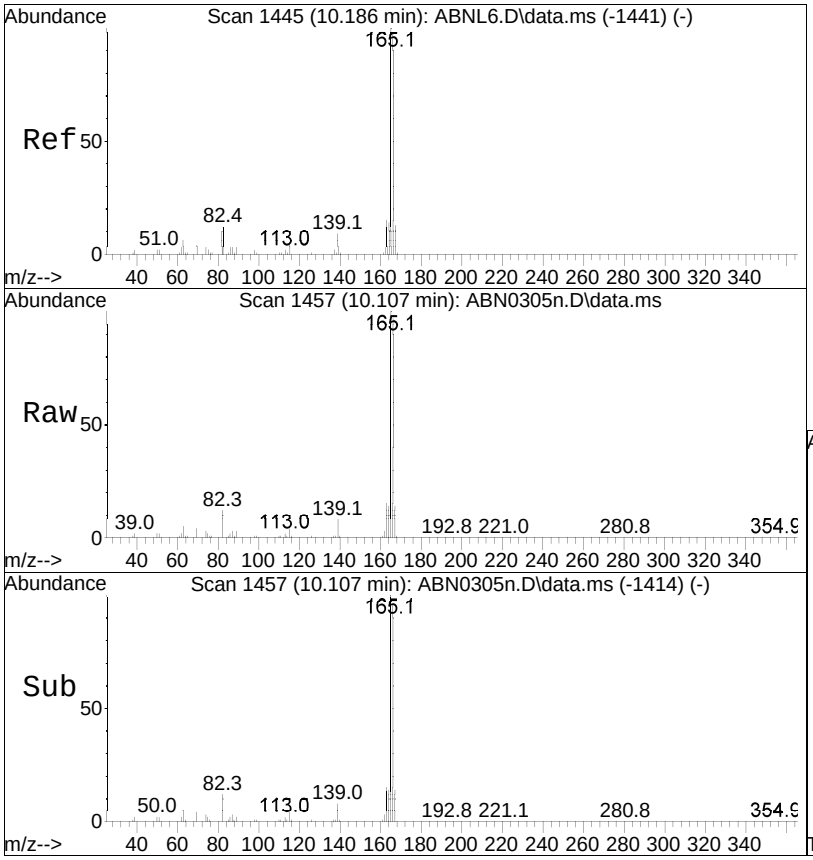


#72
Diethyl phthalate
Concen: 4.57 ug/ml
RT: 10.042 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:149 Resp: 295210

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.1	24.1
150	12.2	9.4	14.2

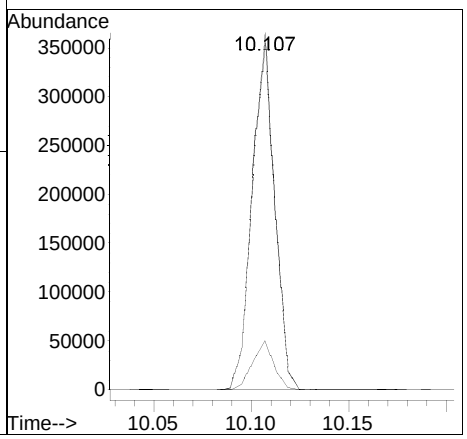


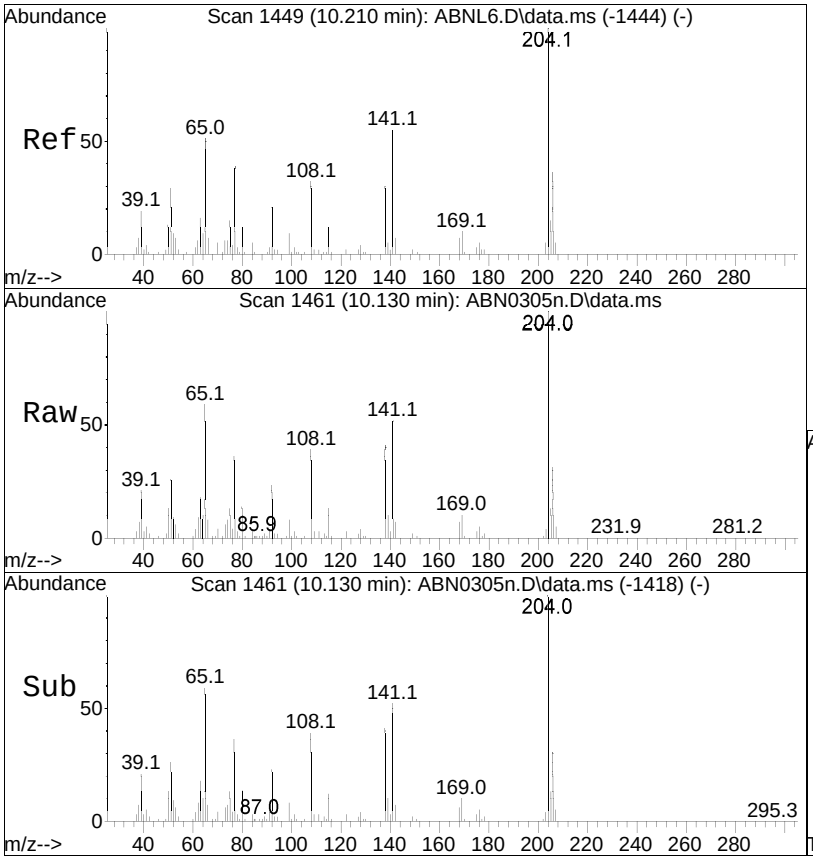


#73
Fluorene
Concen: 4.59 ug/ml
RT: 10.107 min Scan# 1457
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:166 Resp: 285289

Ion	Ratio	Lower	Upper
166	100		
165	102.4	76.2	114.2
167	13.7	10.6	15.8

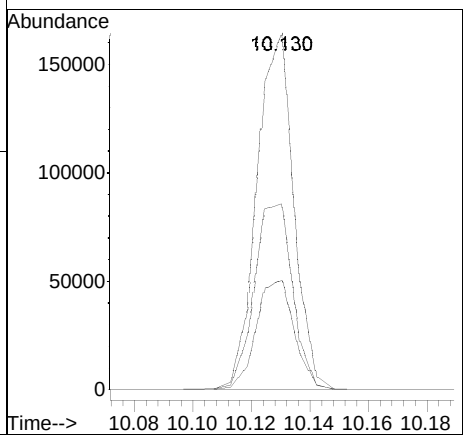


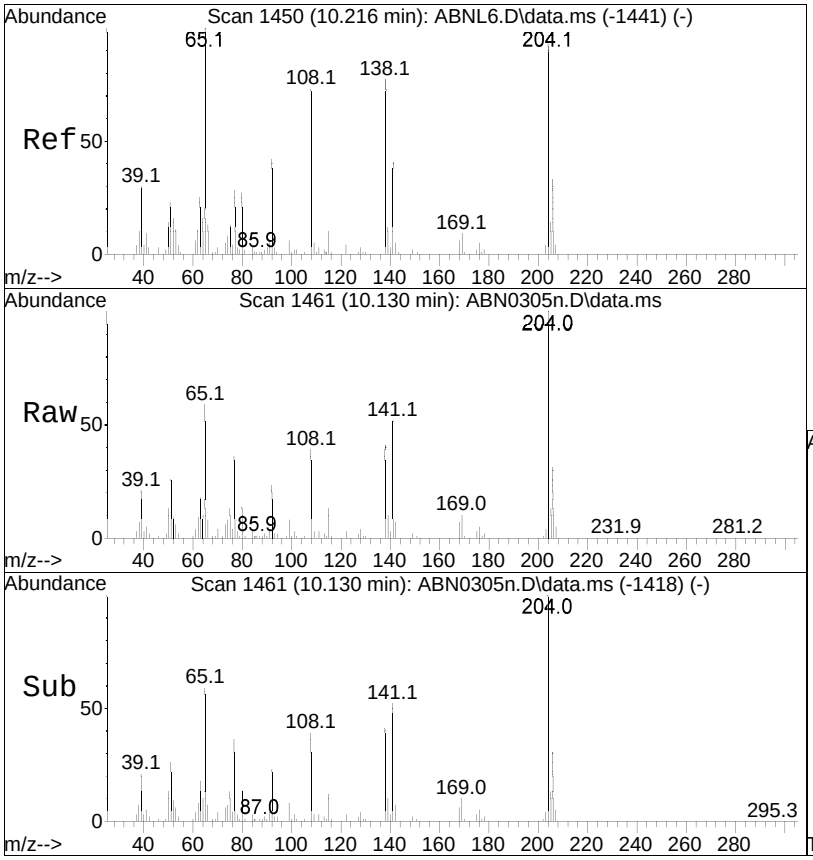


#74
4-Chlorophenyl phenyl ether
Concen: 4.47 ug/ml
RT: 10.130 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:204 Resp: 142514

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.6
141	54.7	53.6	80.4

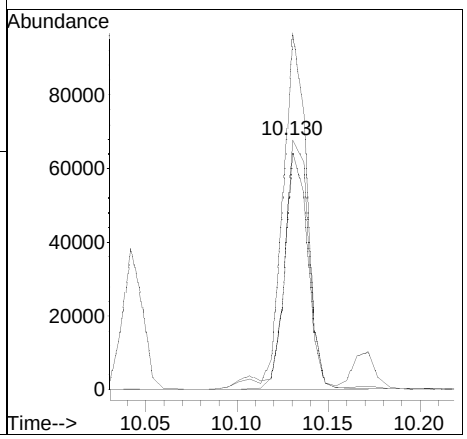


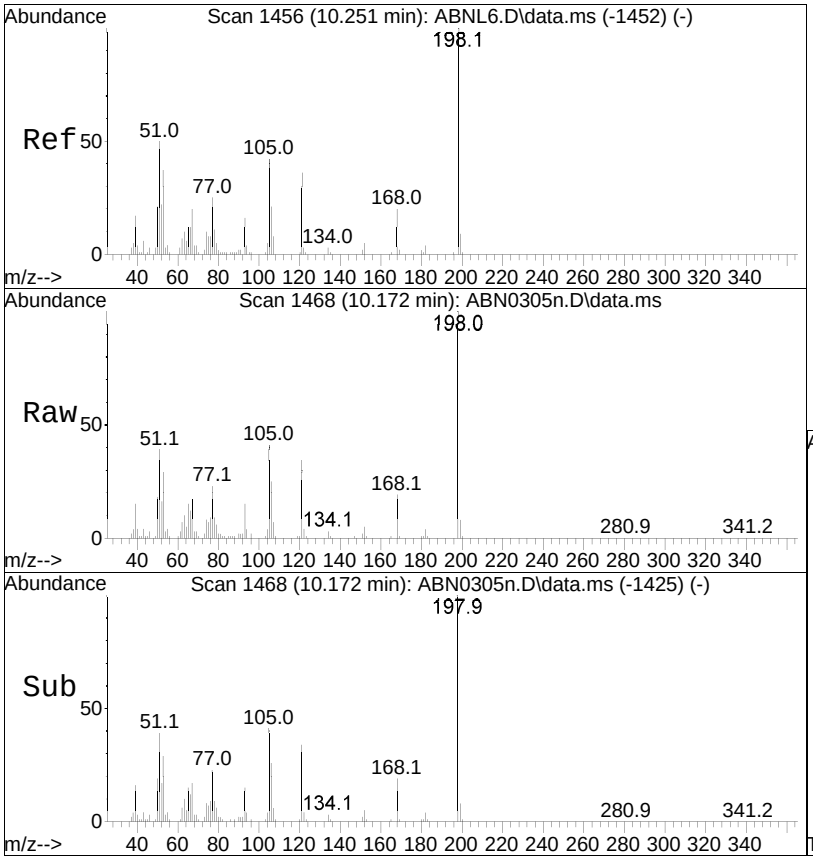


#75
4-Nitroaniline
Concen: 4.59 ug/ml
RT: 10.130 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:138 Resp: 64164

Ion	Ratio	Lower	Upper
138	100		
108	87.8	52.1	78.1#
65	138.8	115.0	172.6

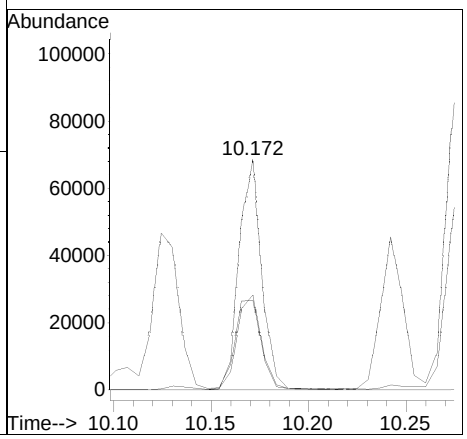


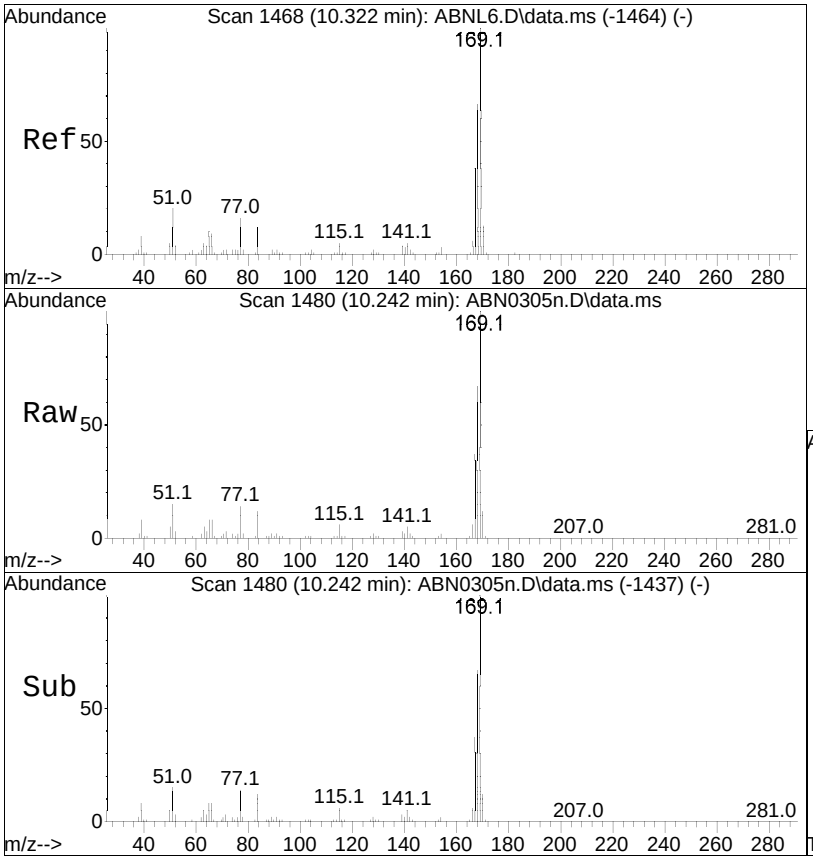


#76
4,6-Dinitro-o-cresol
Concen: 4.63 ug/ml
RT: 10.172 min Scan# 1468
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:198 Resp: 55553

Ion	Ratio	Lower	Upper
198	100		
51	45.2	76.0	114.0#
105	44.5	45.6	68.4#

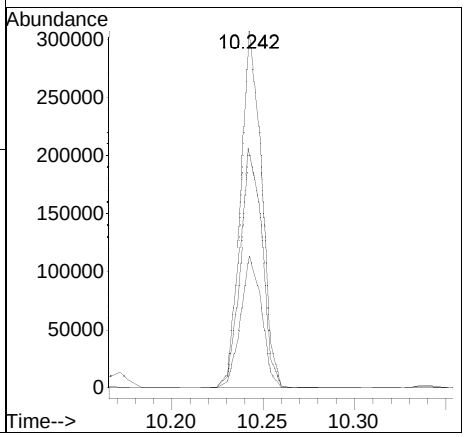


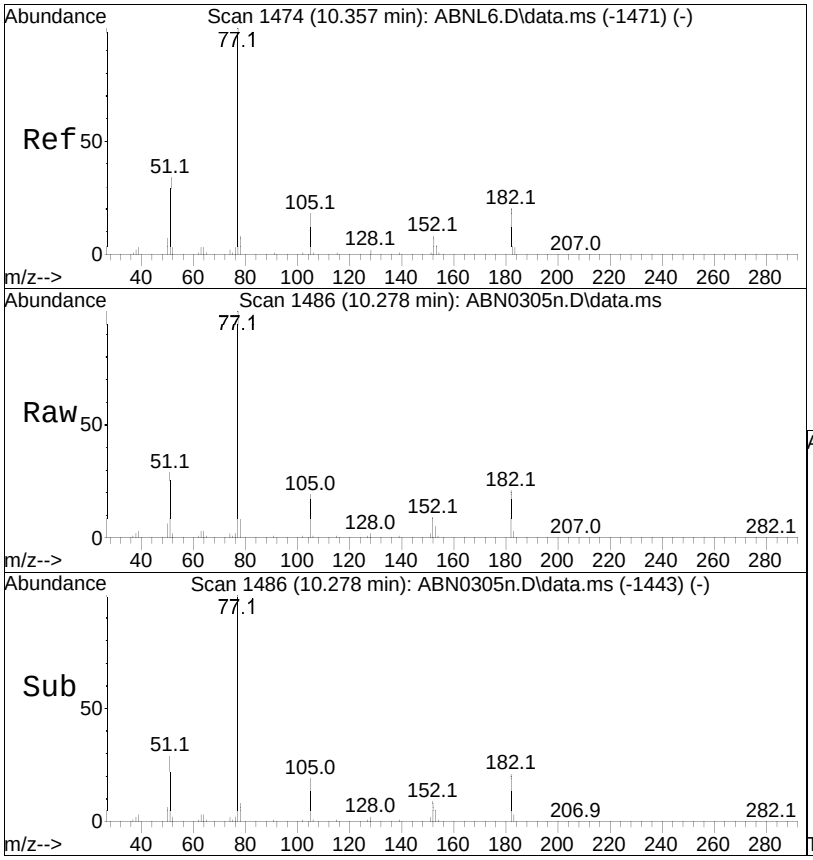


#77
NDPA/DPA
Concen: 4.54 ug/ml
RT: 10.242 min Scan# 1480
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:169 Resp: 243742

Ion	Ratio	Lower	Upper
169	100		
168	69.4	54.0	81.0
167	37.4	28.6	42.8

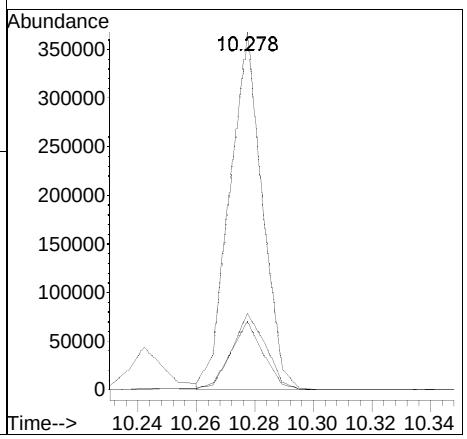


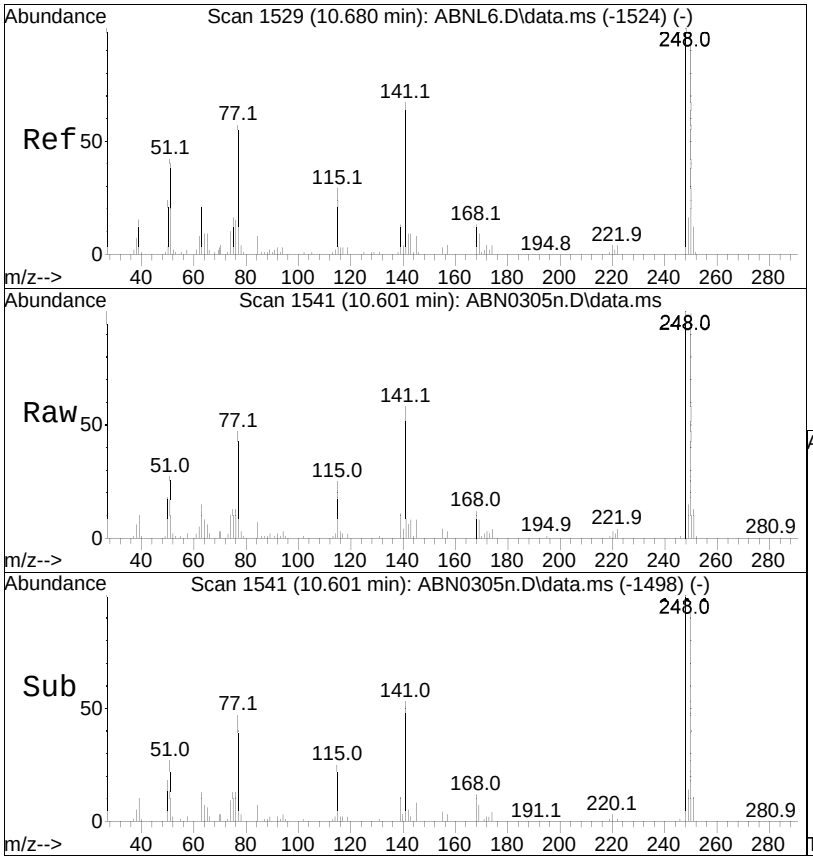


#78
Azobenzene
Concen: 5.41 ug/ml
RT: 10.278 min Scan# 1486
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion: 77 Resp: 283773

Ion	Ratio	Lower	Upper
77	100		
182	22.7	17.4	26.2
105	19.5	15.4	23.2

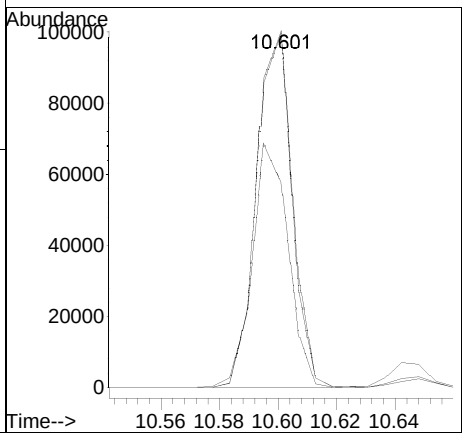


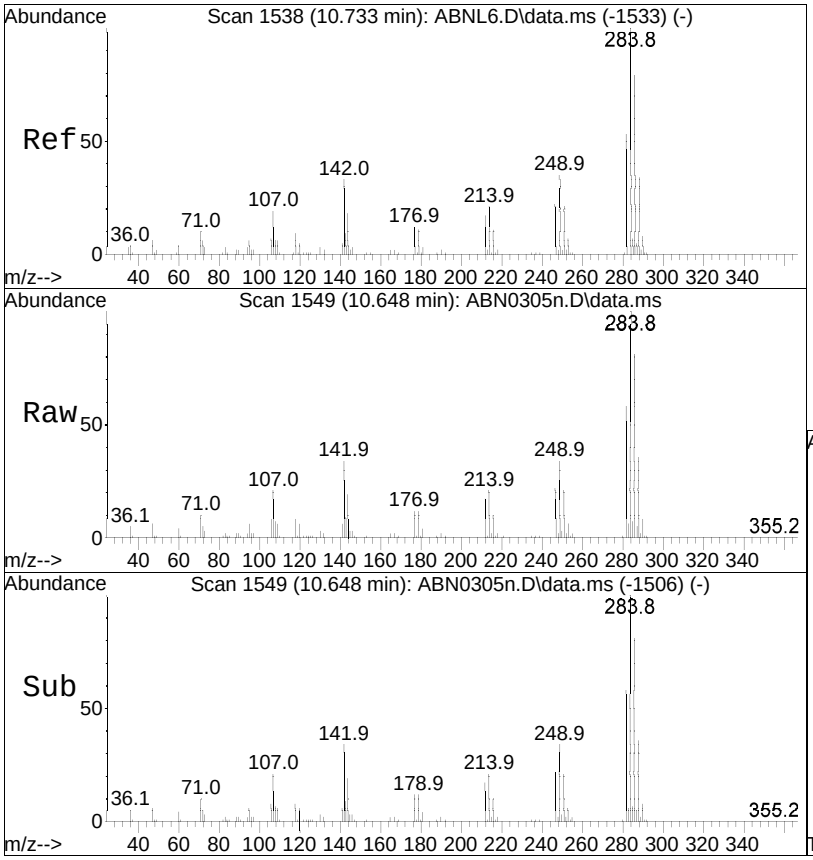


#80
4-Bromophenyl phenyl ether
Concen: 4.34 ug/ml
RT: 10.601 min Scan# 1541
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:248 Resp: 85826

Ion	Ratio	Lower	Upper
248	100		
141	68.3	76.6	114.8#
250	97.8	77.3	115.9

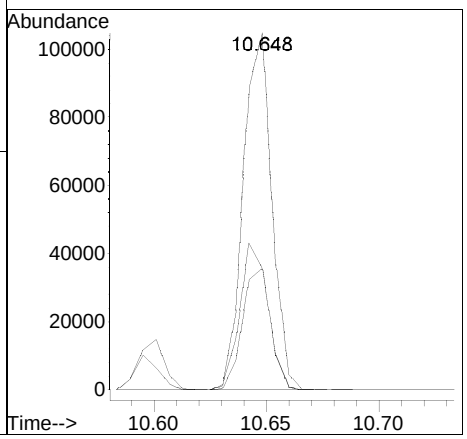


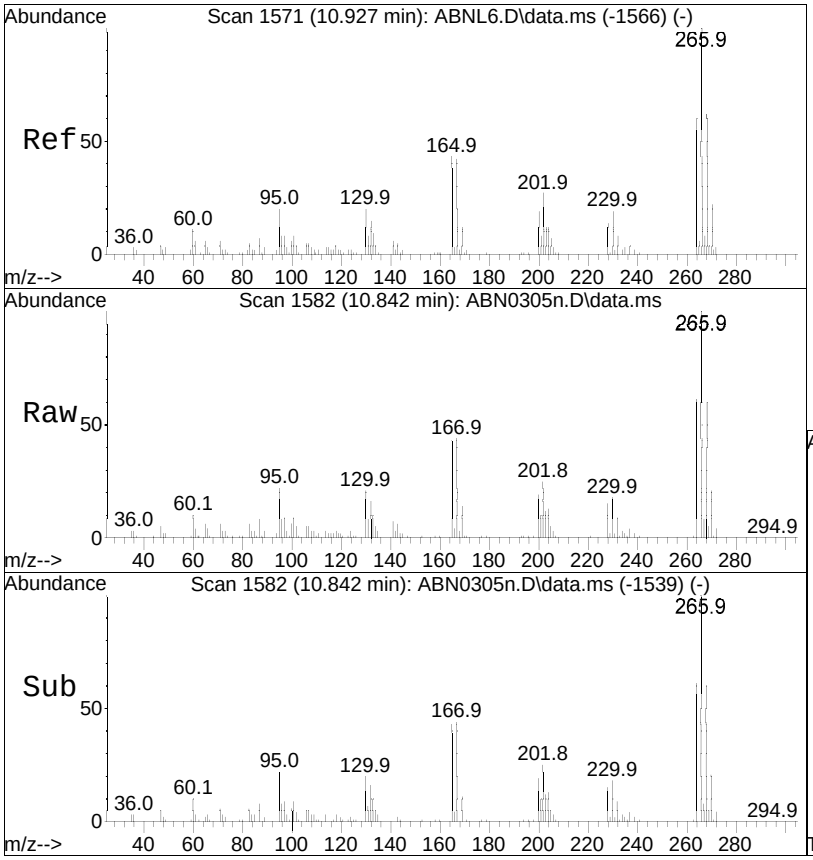


#81
Hexachlorobenzene
Concen: 4.12 ug/ml
RT: 10.648 min Scan# 1549
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:284 Resp: 92232

Ion	Ratio	Lower	Upper
284	100		
142	40.8	41.9	62.9#
249	33.9	24.1	36.1

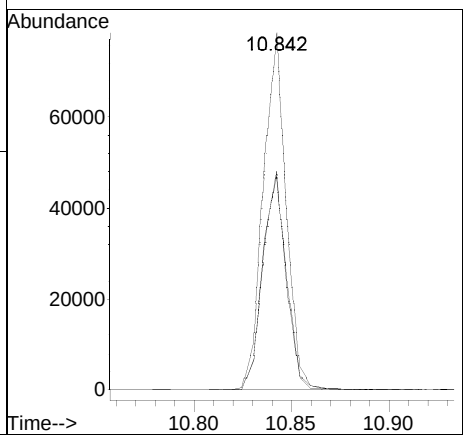


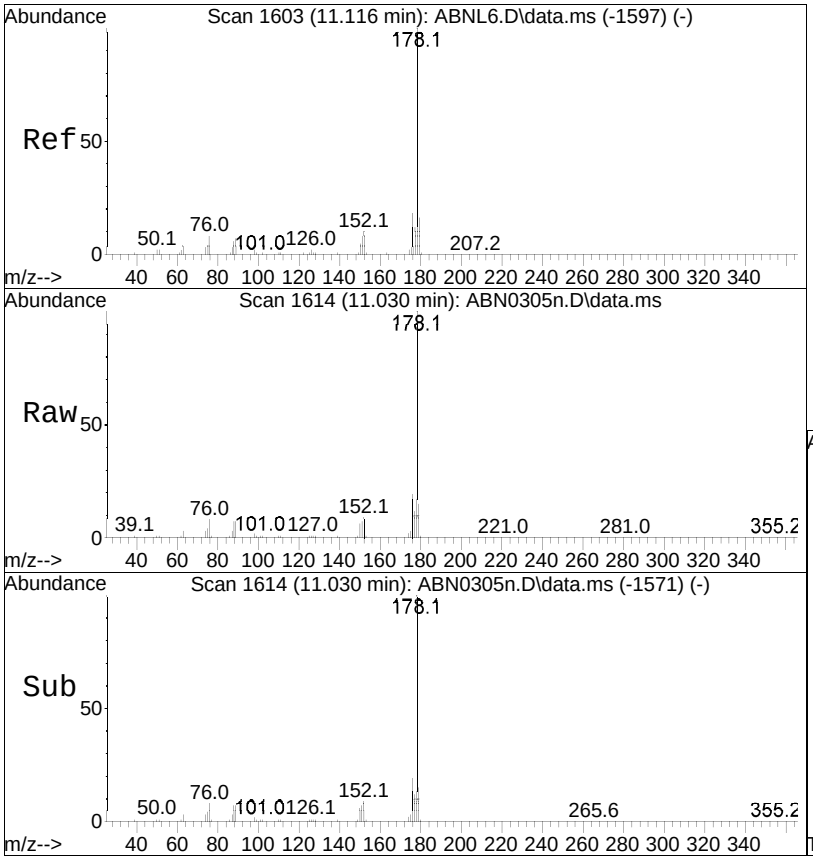


#82
Pentachlorophenol
Concen: 4.71 ug/ml
RT: 10.842 min Scan# 1582
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:266 Resp: 63749

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.7	74.5
268	63.8	50.5	75.7

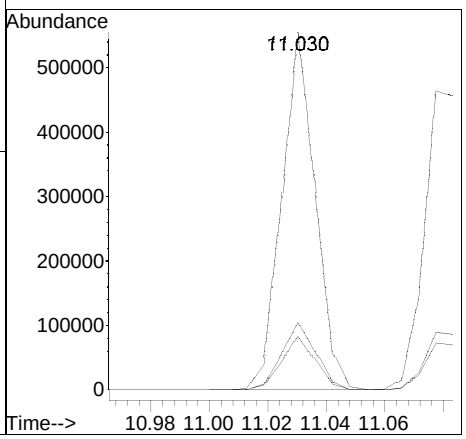


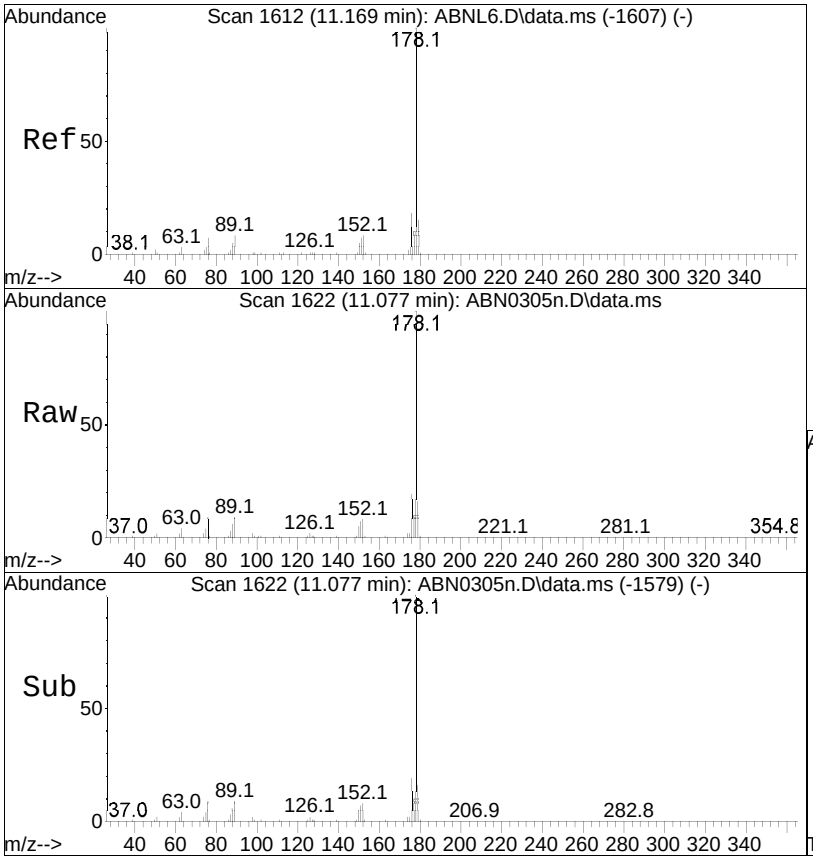


#89
Phenanthrene
Concen: 4.55 ug/ml
RT: 11.030 min Scan# 1614
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:178 Resp: 441052

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.2	15.4	23.2

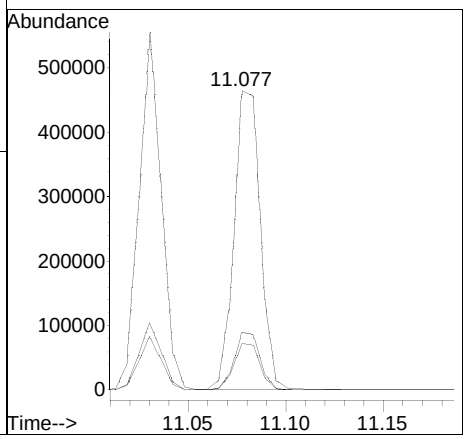


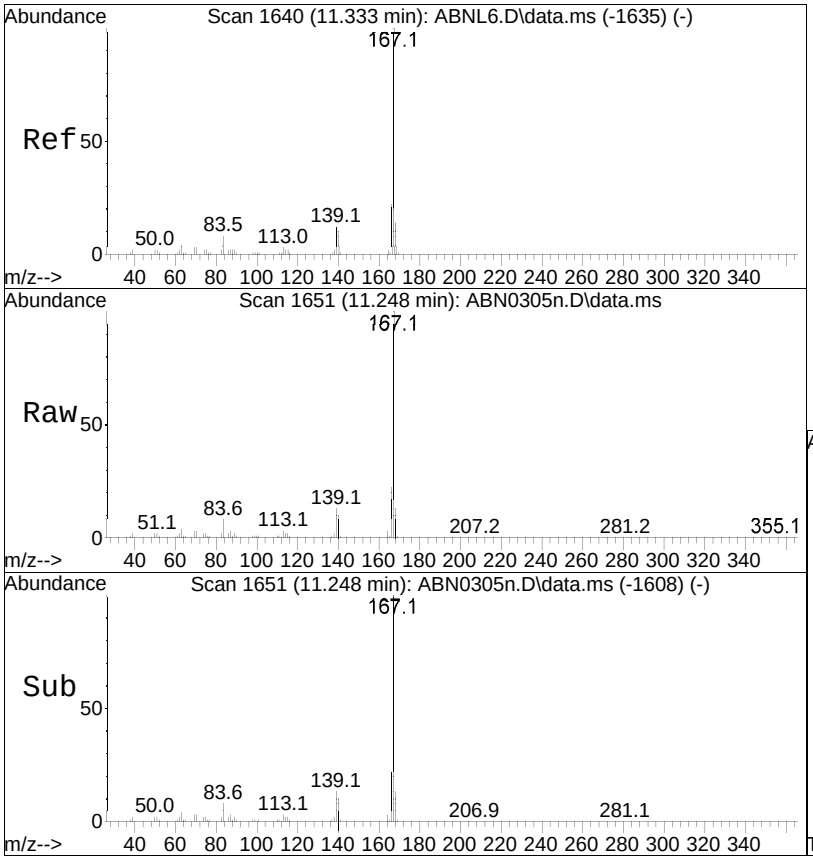


#90
Anthracene
Concen: 4.51 ug/ml
RT: 11.077 min Scan# 1622
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:178 Resp: 435830

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.0	18.0
176	18.8	14.6	22.0

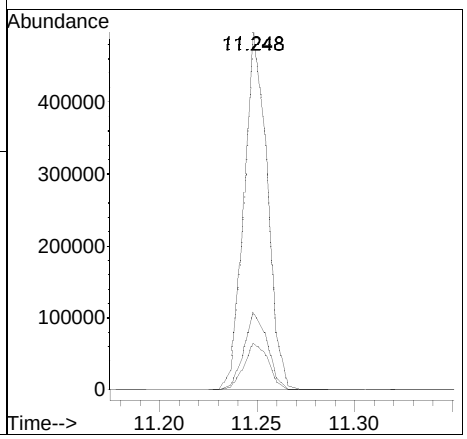


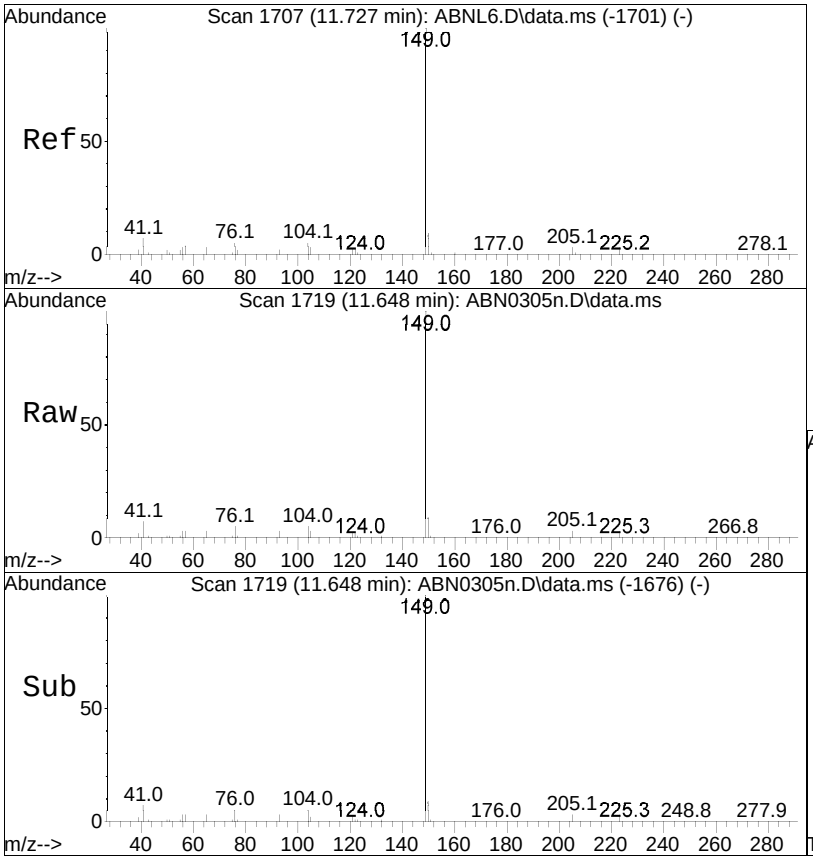


#91
Carbazole
Concen: 4.71 ug/ml
RT: 11.248 min Scan# 1651
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:167 Resp: 409579

Ion	Ratio	Lower	Upper
167	100		
168	13.8	10.6	15.8
166	22.1	17.4	26.0

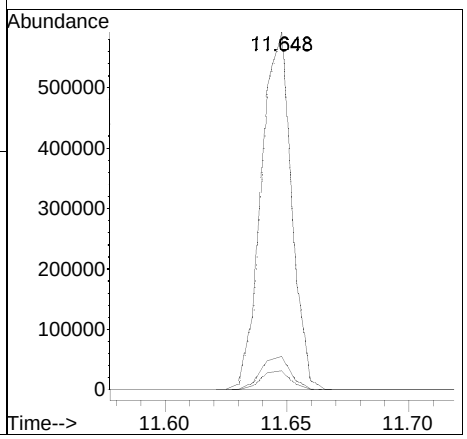


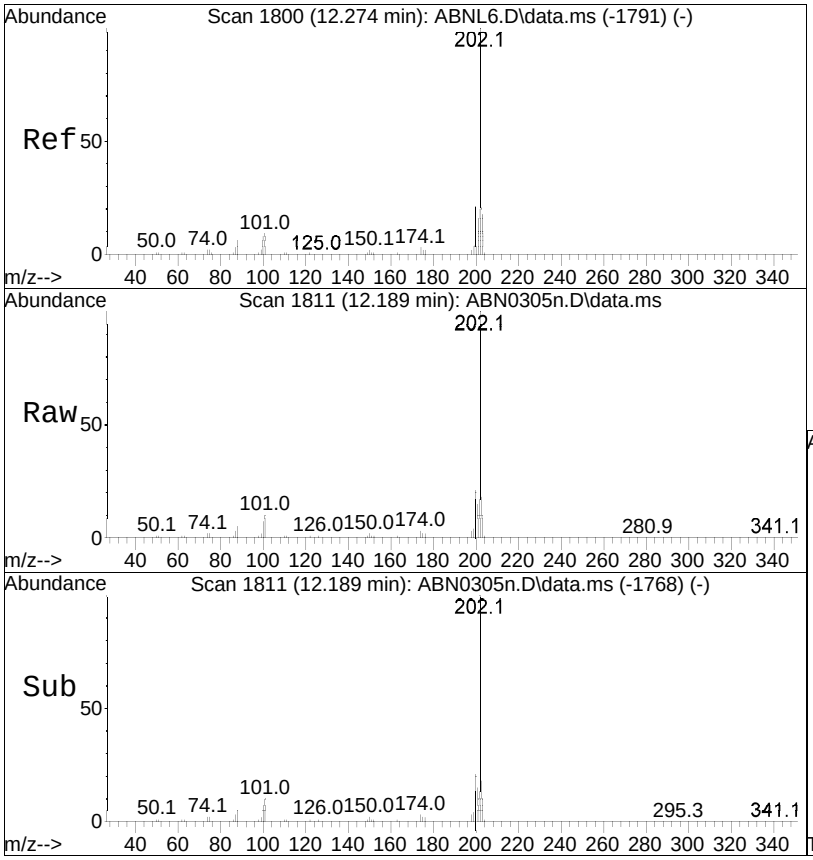


#92
Di-n-butylphthalate
Concen: 4.63 ug/ml
RT: 11.648 min Scan# 1719
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:149 Resp: 503813

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.5	4.5	6.7

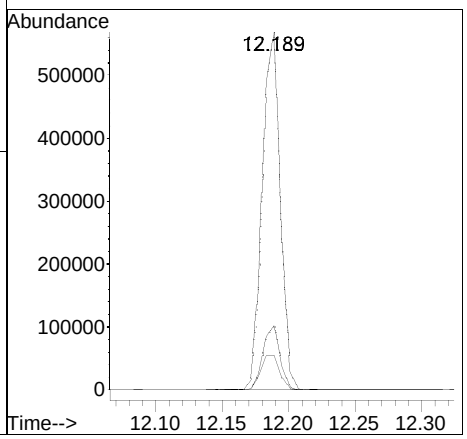


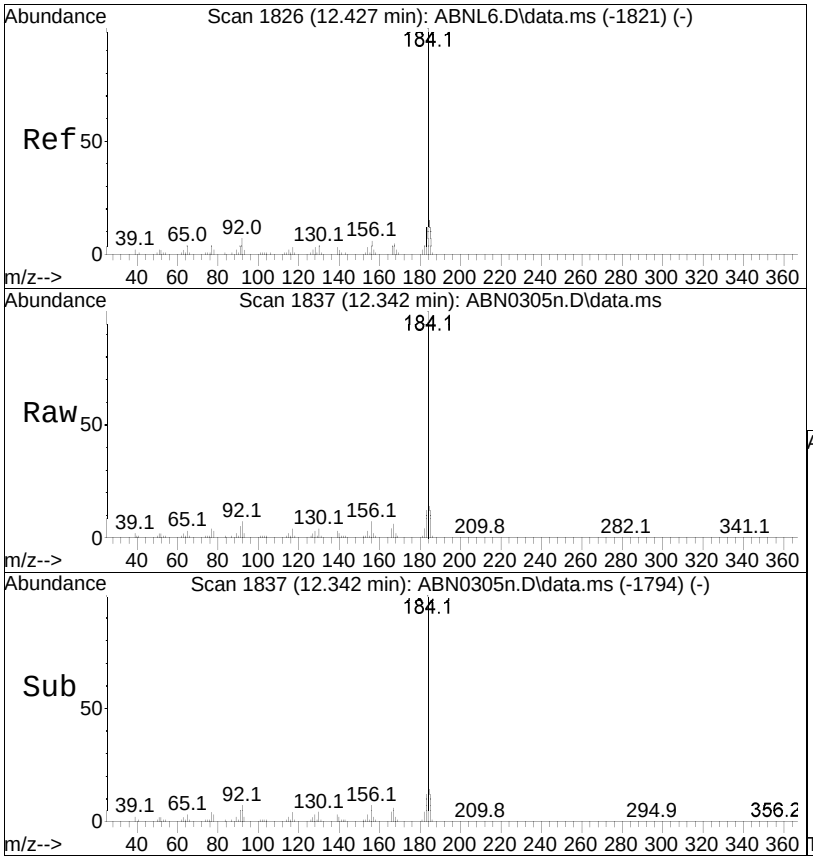


#93
Fluoranthene
Concen: 4.71 ug/ml
RT: 12.189 min Scan# 1811
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:202 Resp: 526509

Ion	Ratio	Lower	Upper
202	100		
101	10.5	13.5	20.3#
203	17.2	13.6	20.4

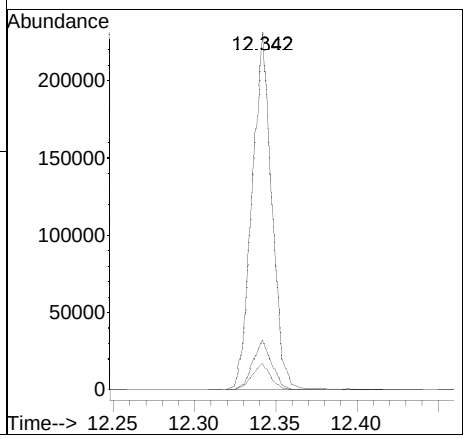


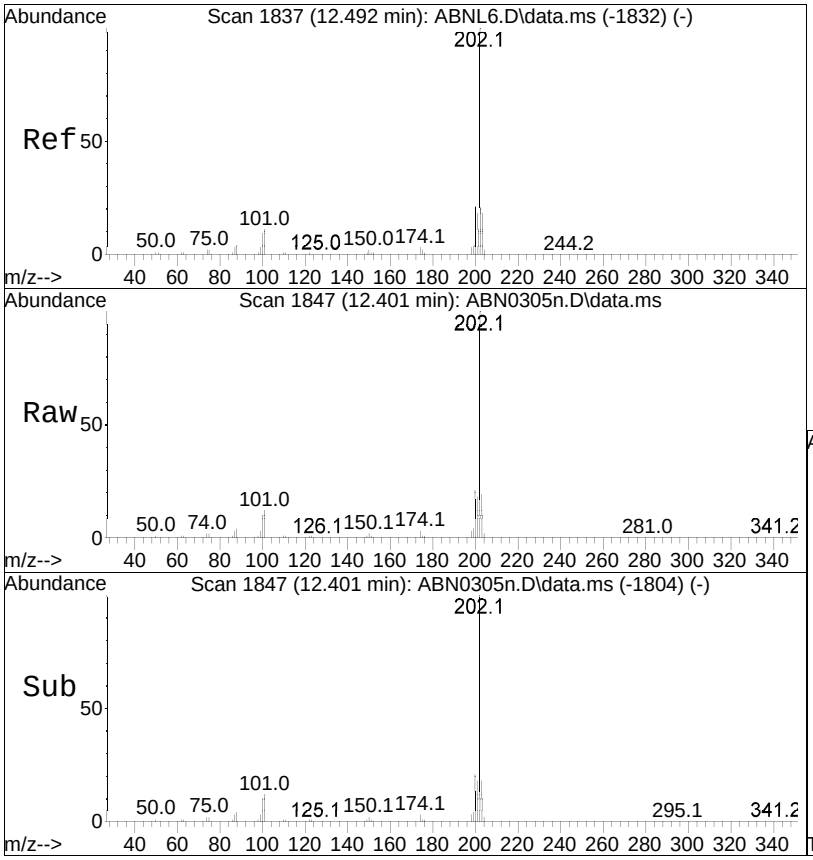


#94
Benzidine
Concen: 3.00 ug/ml
RT: 12.342 min Scan# 1837
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:184 Resp: 192376

Ion	Ratio	Lower	Upper
184	100		
92	7.2	9.1	13.7#
185	13.6	11.1	16.7

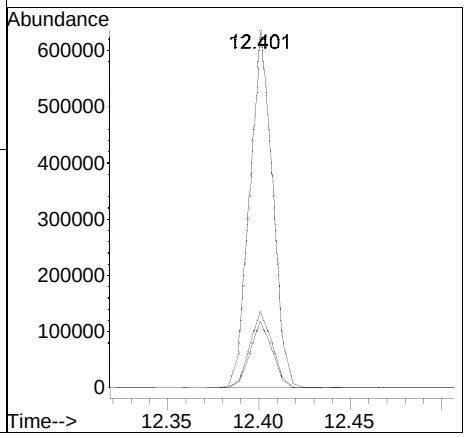


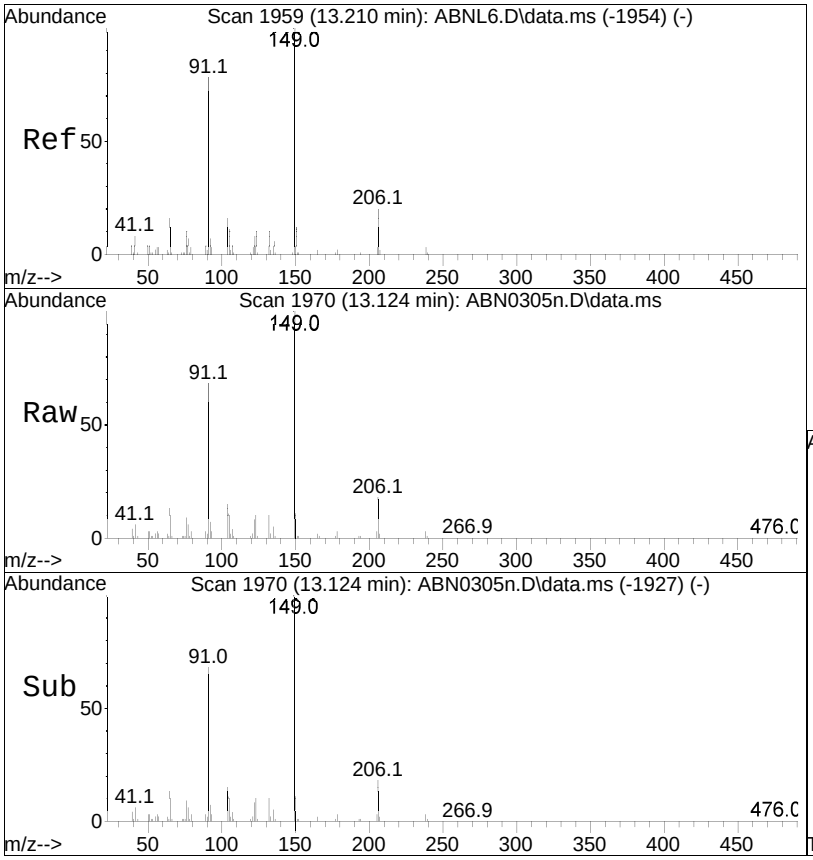


#95
Pyrene
Concen: 4.64 ug/ml
RT: 12.401 min Scan# 1847
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:202 Resp: 547256

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	18.1	14.2	21.4

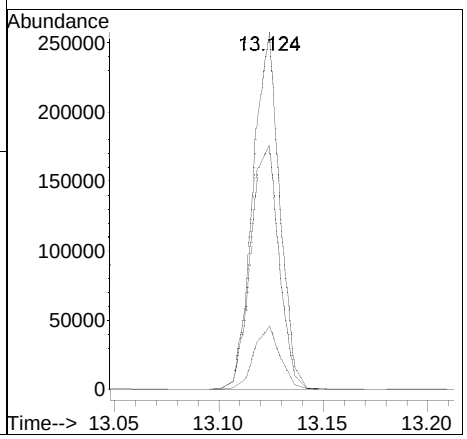


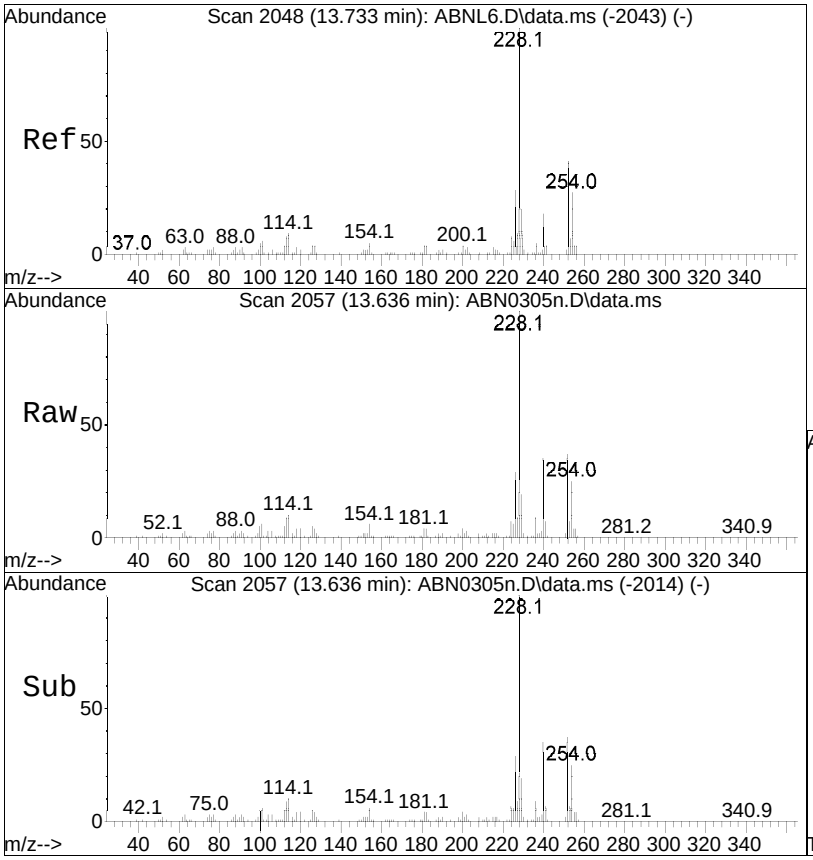


#97
Butyl benzyl phthalate
Concen: 4.92 ug/ml
RT: 13.124 min Scan# 1970
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:149 Resp: 225155

Ion	Ratio	Lower	Upper
149	100		
91	72.9	63.3	94.9
206	17.6	13.9	20.9

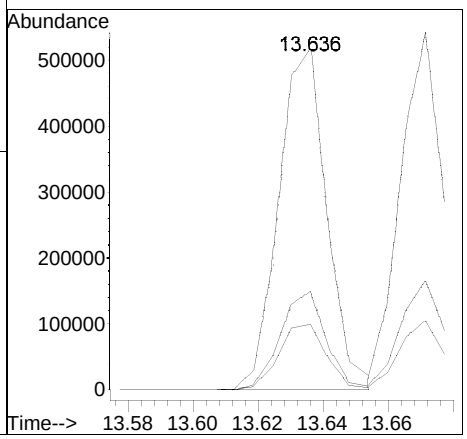


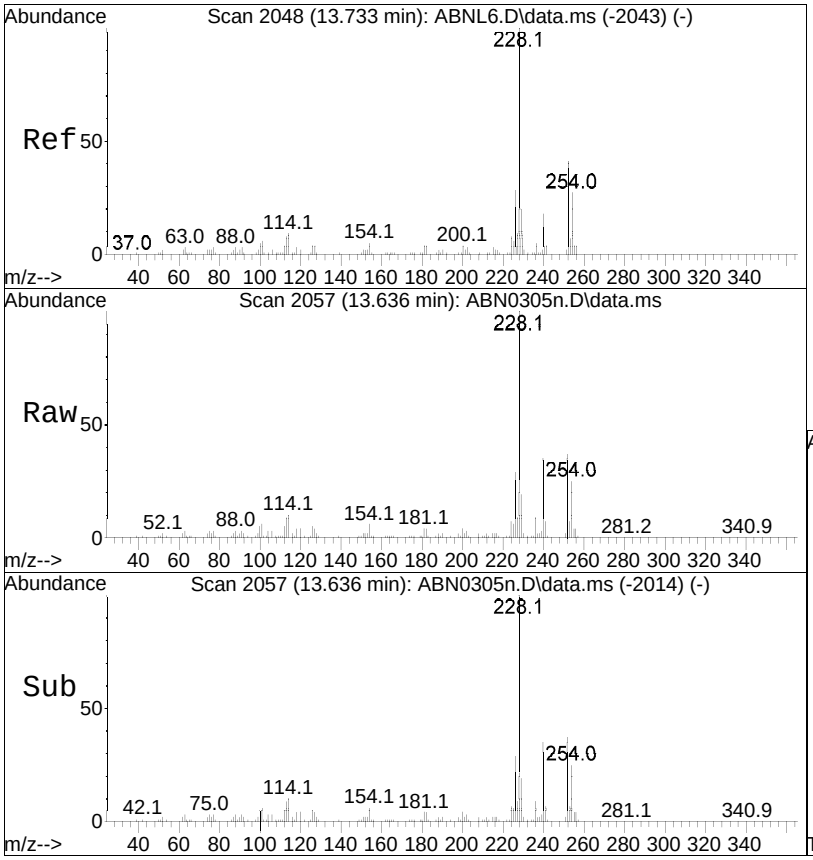


#105
Benzo(a)anthracene
Concen: 4.66 ug/ml
RT: 13.636 min Scan# 2057
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:228 Resp: 532791

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.3	15.6	23.4

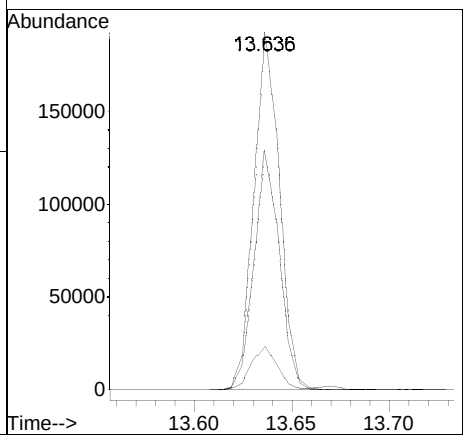


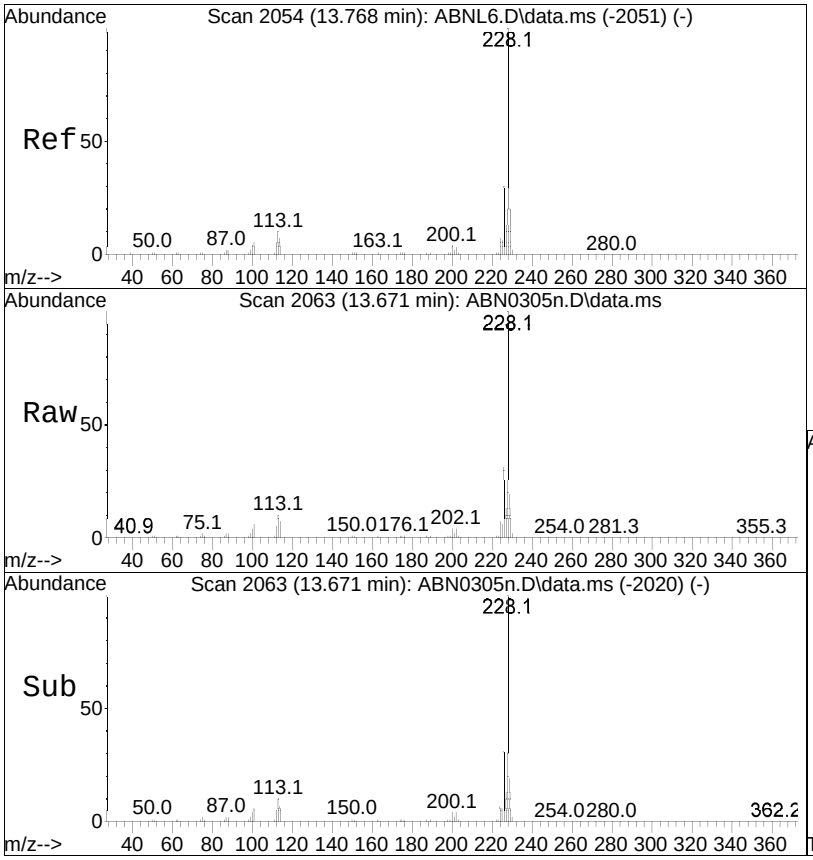


#106
3,3'-Dichlorobenzidine
Concen: 4.65 ug/ml
RT: 13.636 min Scan# 2057
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:252 Resp: 174526

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	66.4	51.2	76.8

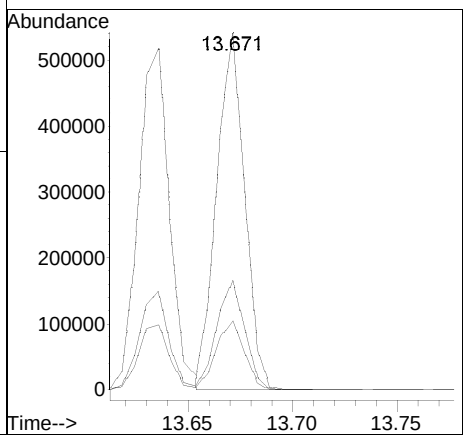


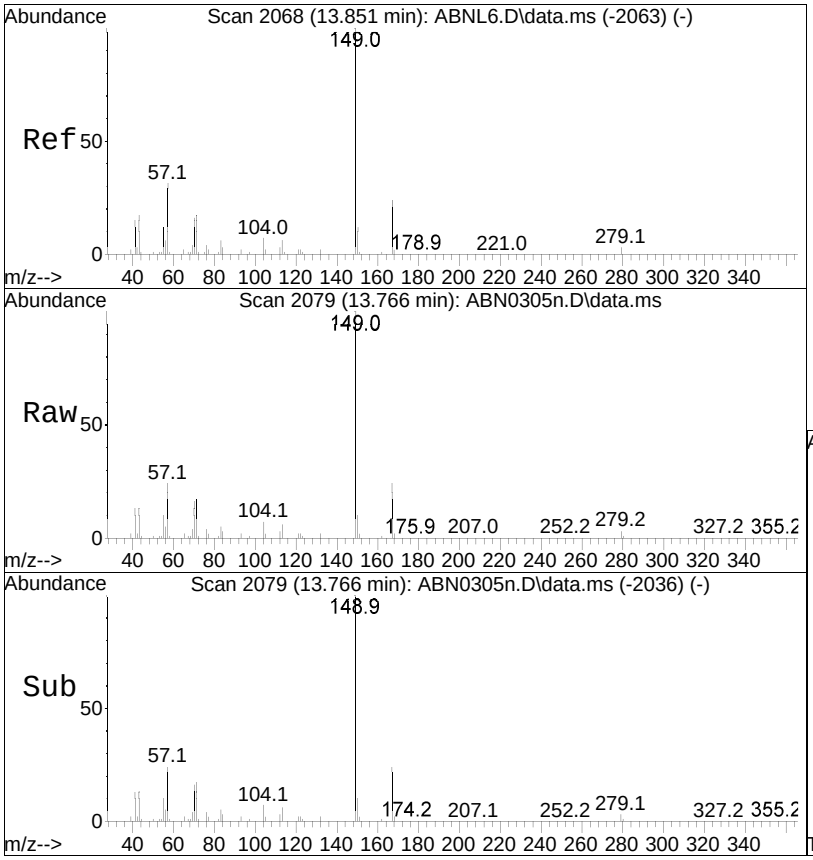


#107
Chrysene
Concen: 4.60 ug/ml
RT: 13.671 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:228 Resp: 504205

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.0	36.0
229	19.6	15.8	23.8

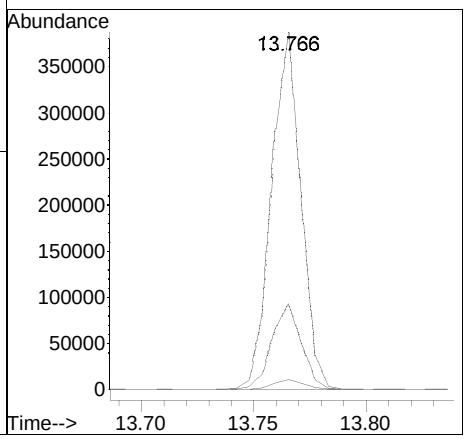


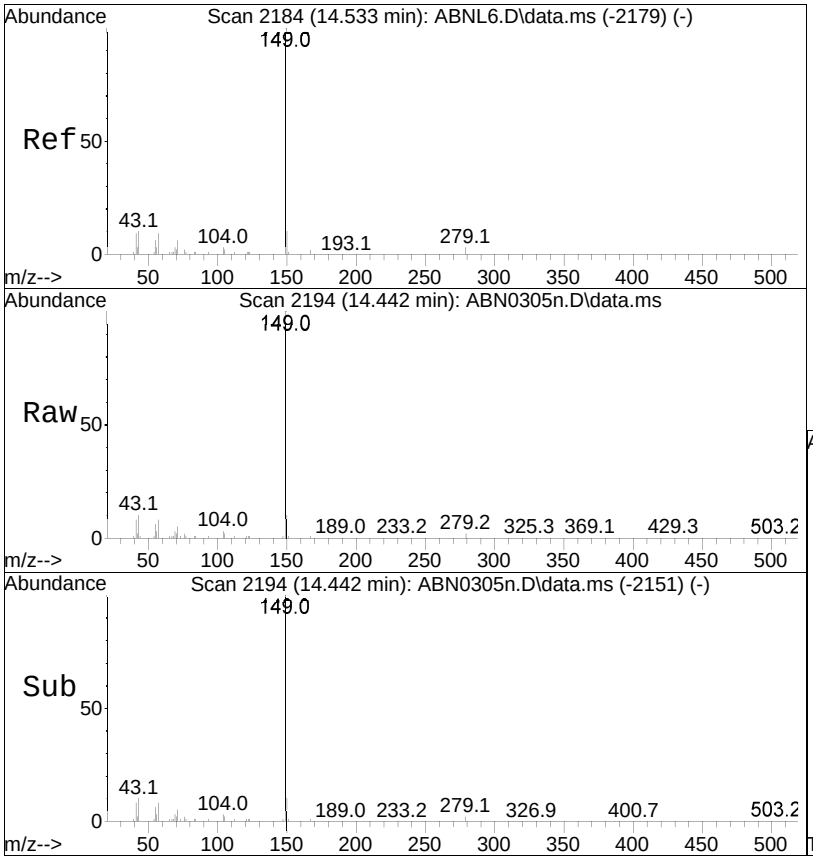


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.09 ug/ml
RT: 13.766 min Scan# 2079
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:149 Resp: 349068

Ion	Ratio	Lower	Upper
149	100		
167	24.2	22.1	33.1
279	2.7	3.0	4.4#

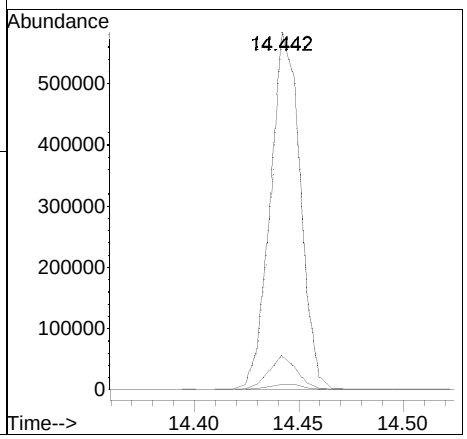


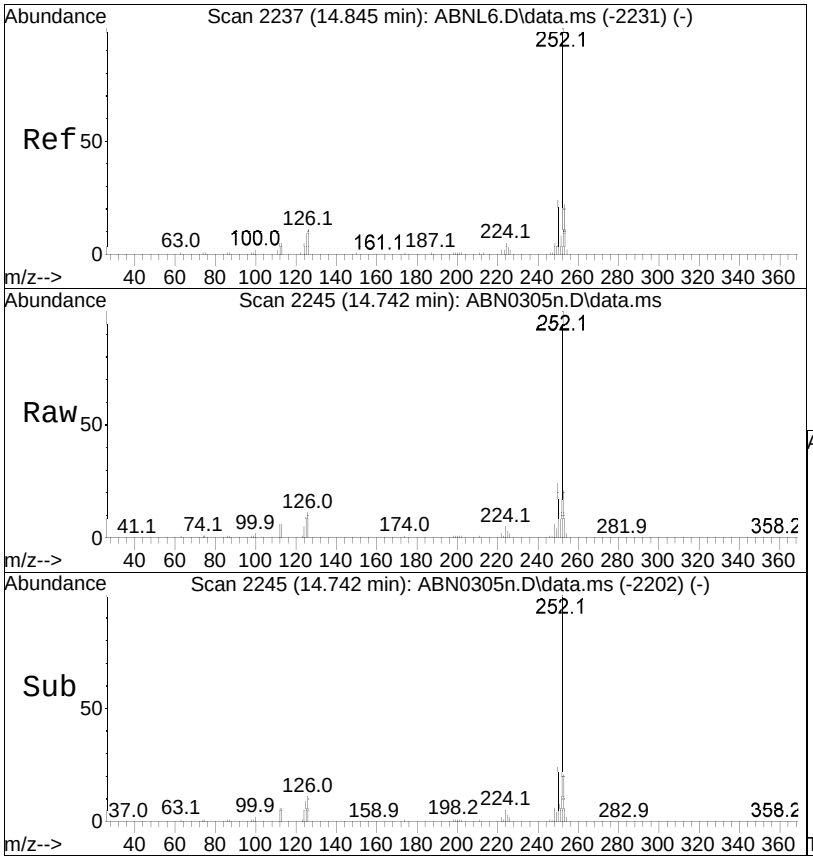


#109
Di-n-octylphthalate
Concen: 5.05 ug/ml
RT: 14.442 min Scan# 2194
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:149 Resp: 574529

Ion	Ratio	Lower	Upper
149	100		
43	9.0	18.8	28.2#
167	1.5	1.3	1.9

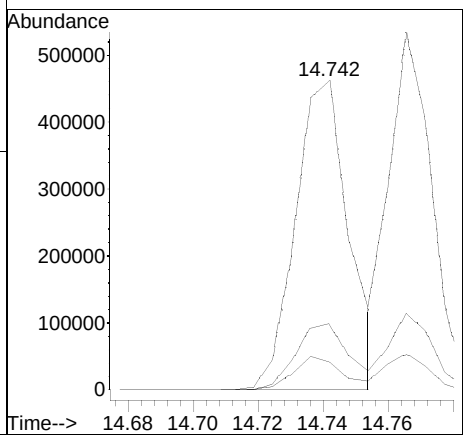


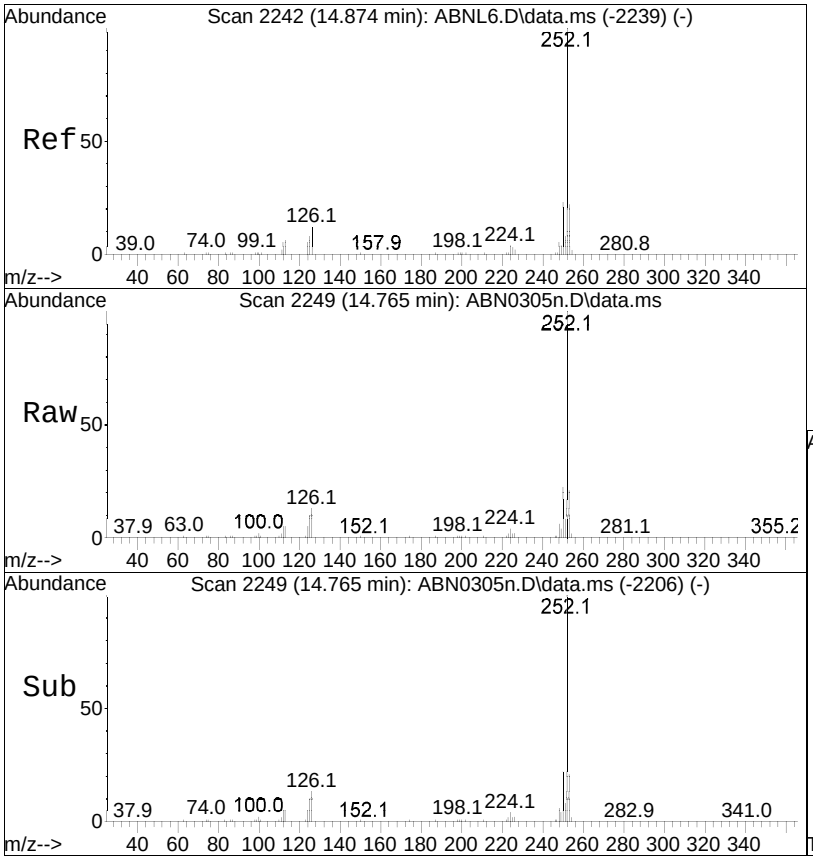


#110
Benzo(b)fluoranthene
Concen: 4.79 ug/ml
RT: 14.742 min Scan# 2245
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:252 Resp: 527613

Ion	Ratio	Lower	Upper
252	100		
125	10.1	13.3	19.9#
253	21.7	17.1	25.7

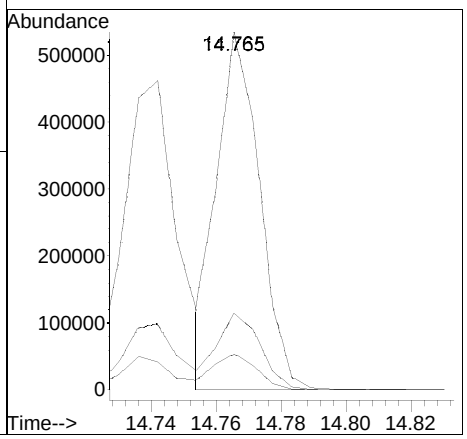


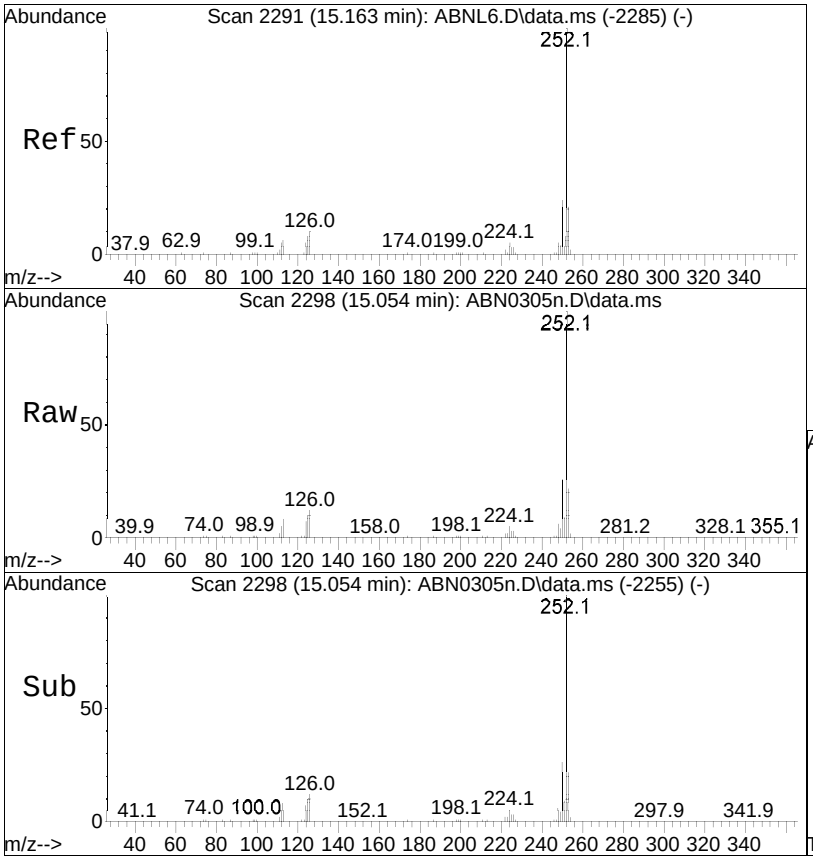


#111
Benzo(k)fluoranthene
Concen: 4.72 ug/ml
RT: 14.765 min Scan# 2249
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:252 Resp: 485070

Ion	Ratio	Lower	Upper
252	100		
125	10.1	13.0	19.6#
253	21.8	16.8	25.2

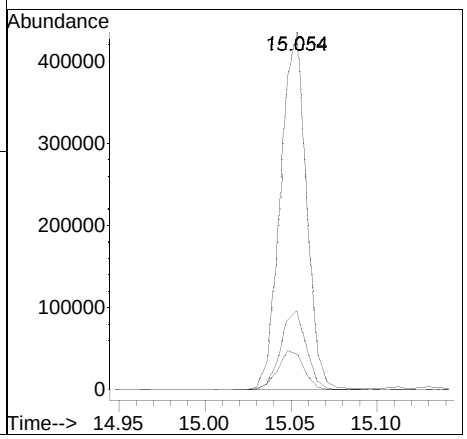


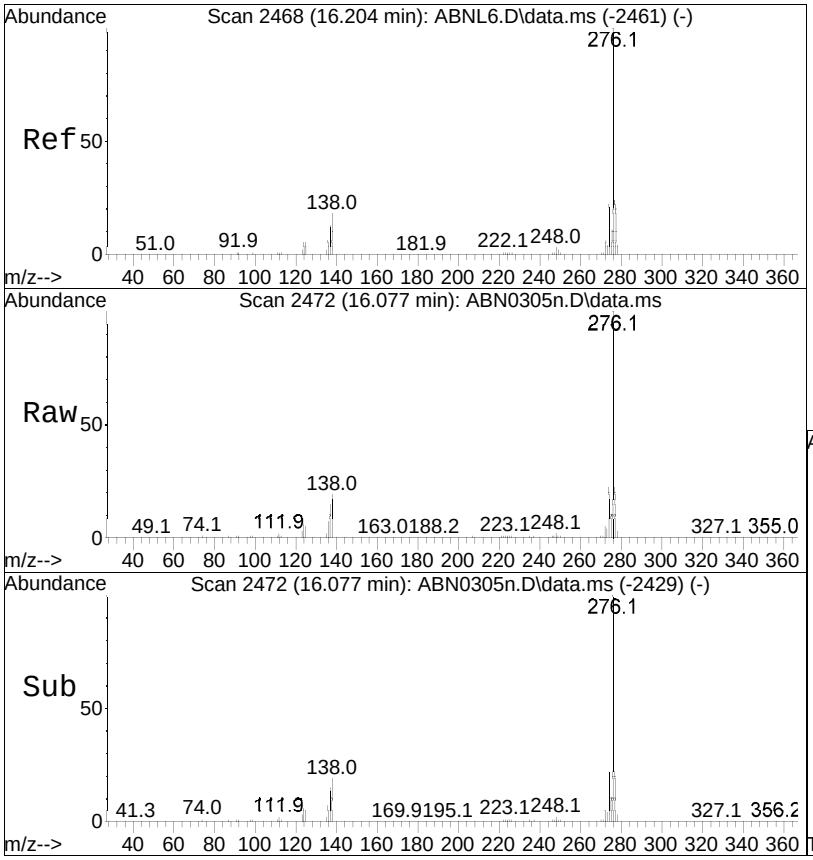


#112
Benzo(a)pyrene
Concen: 4.72 ug/ml
RT: 15.054 min Scan# 2298
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:252 Resp: 451517

Ion	Ratio	Lower	Upper
252	100		
125	11.3	14.2	21.2#
253	22.1	16.9	25.3

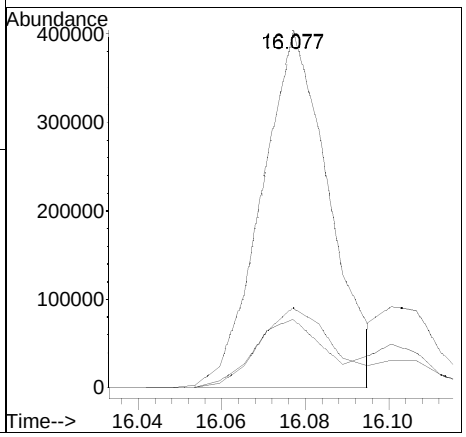


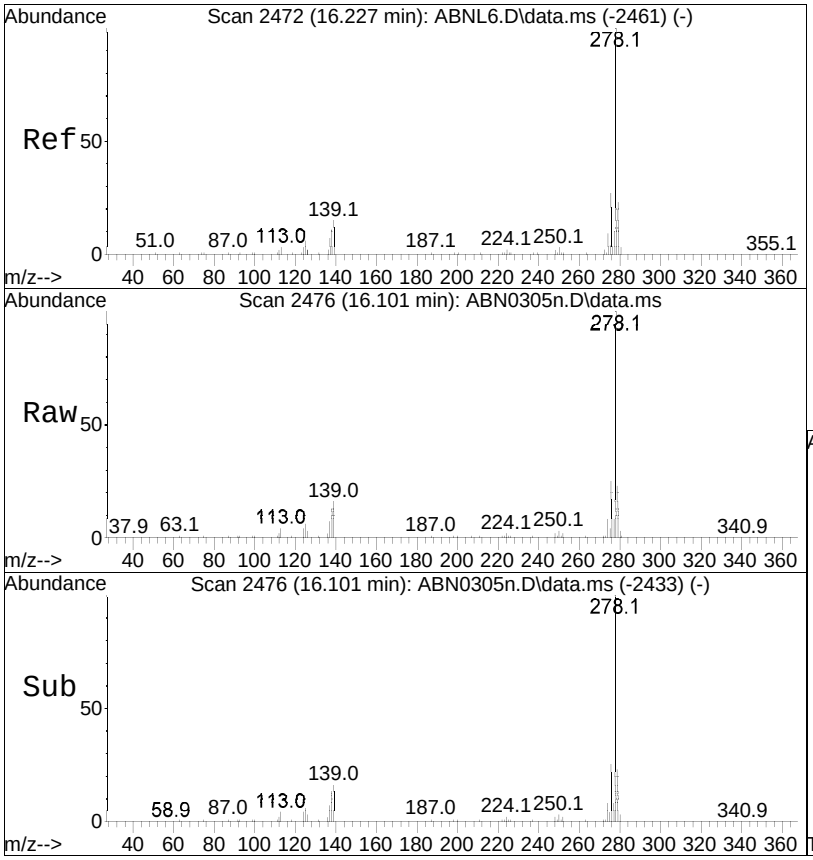


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.39 ug/mL M6
RT: 16.077 min Scan# 2472
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:276 Resp: 456517

Ion	Ratio	Lower	Upper
276	100		
138	19.9	25.1	37.7#
277	31.0	18.6	28.0#

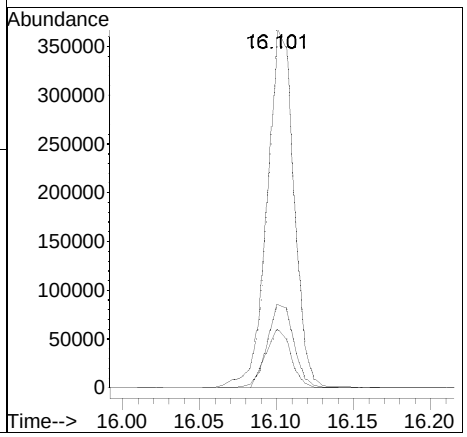


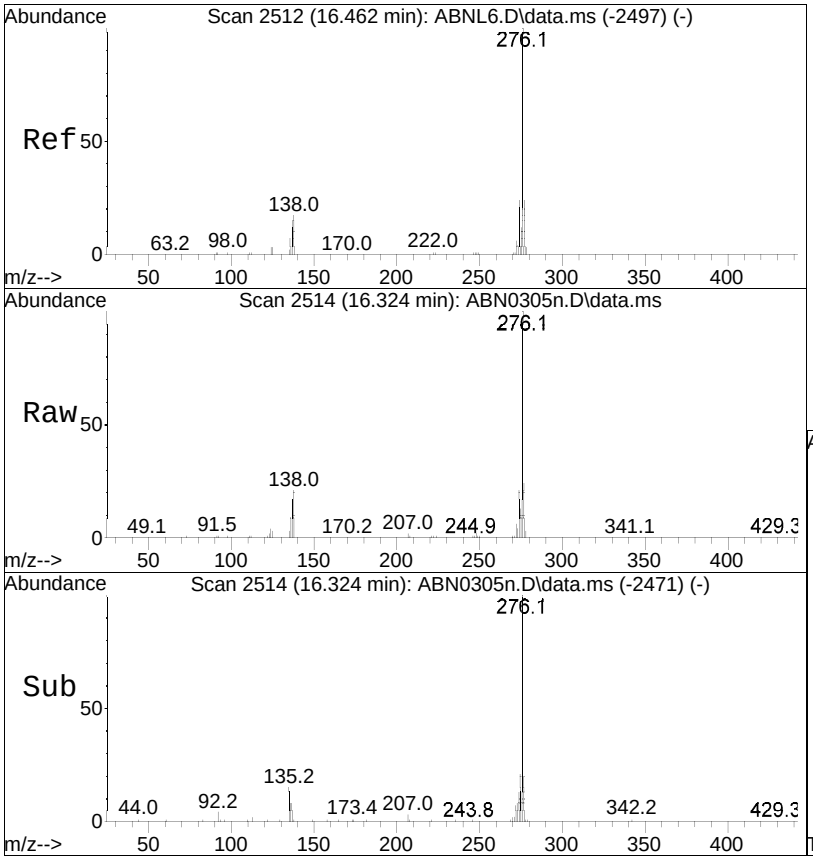


#115
Dibenzo(a,h)anthracene
Concen: 4.48 ug/ml
RT: 16.101 min Scan# 2476
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:278 Resp: 443140

Ion	Ratio	Lower	Upper
278	100		
139	15.5	20.8	31.2#
279	23.4	18.3	27.5

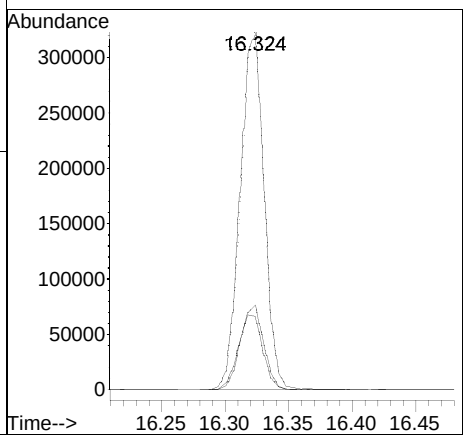




#116
Benzo(ghi)perylene
Concen: 4.53 ug/ml
RT: 16.324 min Scan# 2514
Delta R.T. 0.000 min
Lab File: ABN0305n.D
Acq: 6 Mar 2025 12:49 am

Tgt Ion:276 Resp: 418881

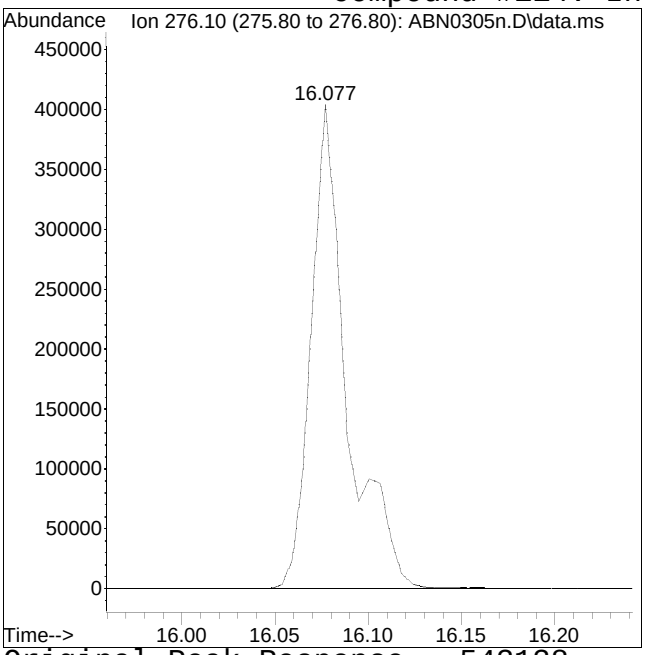
Ion	Ratio	Lower	Upper
276	100		
138	21.7	29.2	43.8#
277	23.3	18.8	28.2



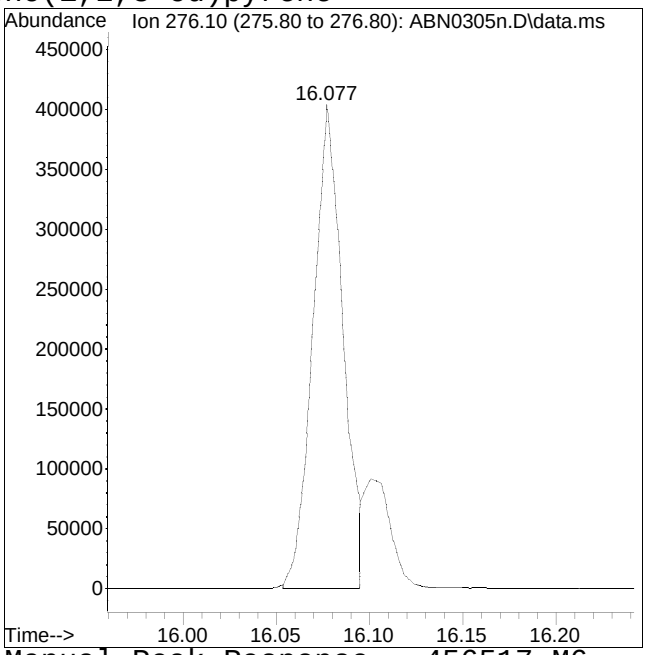
Manual Integration Report

Data Path : I:\8270\SV106\250305NRVT\ QMethod : FS241009SV106.m
Data File : ABN0305n.D Operator : SV106:imk
Date Inj'd : 3/6/2025 12:49 am Instrument : SV 106
Sample : WG2037122-3,32,,ABN RVT CCQuant Date : 3/6/2025 1:17 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 543138



Manual Peak Response = 456517 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305NRVT\
Data File : AP90305n.D
Acq On : 6 Mar 2025 1:12 am
Operator : SV106:imk
Sample : WG2037122-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2037122,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 06 01:55:47 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:56:38 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
28	T	Benzaldehyde	0.948	0.879	7.3	90	0.00
29	T	Acetophenone	1.829	1.755	4.0	97	0.00
30	T	m-Toluidine	1.612	1.518	5.8	94	0.00
31	T	2-Chloroaniline	1.609	1.498	6.9	91	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	94	0.00
56	T	a-Terpineol	0.282	0.282	0.0	95	0.00
57	T	3-Chloroaniline	0.132	0.151	-14.4	102	0.00
58	T	2,6-Dichlorophenol	0.300	0.285	5.0	87	0.00
59	T	1-chloro-2-nitrobenzene	0.145	0.142	2.1	92	0.00
60	T	Caprolactam	0.147	0.139	5.4	87	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.402	0.375	6.7	89	0.00
62	T	Biphenyl	0.907	0.838	7.6	86	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	96	0.00
84	T	Dichloran	0.181	0.156	13.8	84	0.00
85	T	Pentachloronitrobenzene	0.193	0.188	2.6	91	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	92	0.00
99	T	Diphenamid	0.505	0.488	3.4	84	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : AP90305n.D
Acq On : 6 Mar 2025 1:12 am
Operator : SV106:imk
Sample : WG2037122-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2037122,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 06 01:55:47 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:56:38 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.372	152	68803	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	7.807	136	246463	4.000	ug/ml	#	0.00
83) IS2_Acenaphthene-d10	9.572	164	148400	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	11.007	188	297709	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.796	105	75558	4.635	ug/ml		100
29) Acetophenone	6.878	105	150915	4.798	ug/ml	#	78
30) m-Toluidine	6.978	106	130576	4.708	ug/ml		94
31) 2-Chloroaniline	7.384	127	128860	4.655	ug/ml		94
56) a-Terpineol	7.884	59	86884	4.998	ug/ml	#	75
57) 3-Chloroaniline	7.895	65	46413	5.686	ug/ml		81
58) 2,6-Dichlorophenol	7.919	162	87701	4.745	ug/ml		90
59) 1-chloro-2-nitrobenzene	8.189	111	43672	4.875	ug/ml	#	1
60) Caprolactam	8.231	55	42874	4.744	ug/ml	#	62
61) 1,2,4,5-Tetrachloroben...	8.725	216	115586	4.668	ug/ml		98
62) Biphenyl	9.025	154	258189	4.621	ug/ml		99
84) Dichloran	10.707	206	28892	4.301	ug/ml	#	76
85) Pentachloronitrobenzene	10.854	237	34817	4.856	ug/ml	#	81
99) Diphenamid	11.919	167	181590	4.832	ug/ml		83

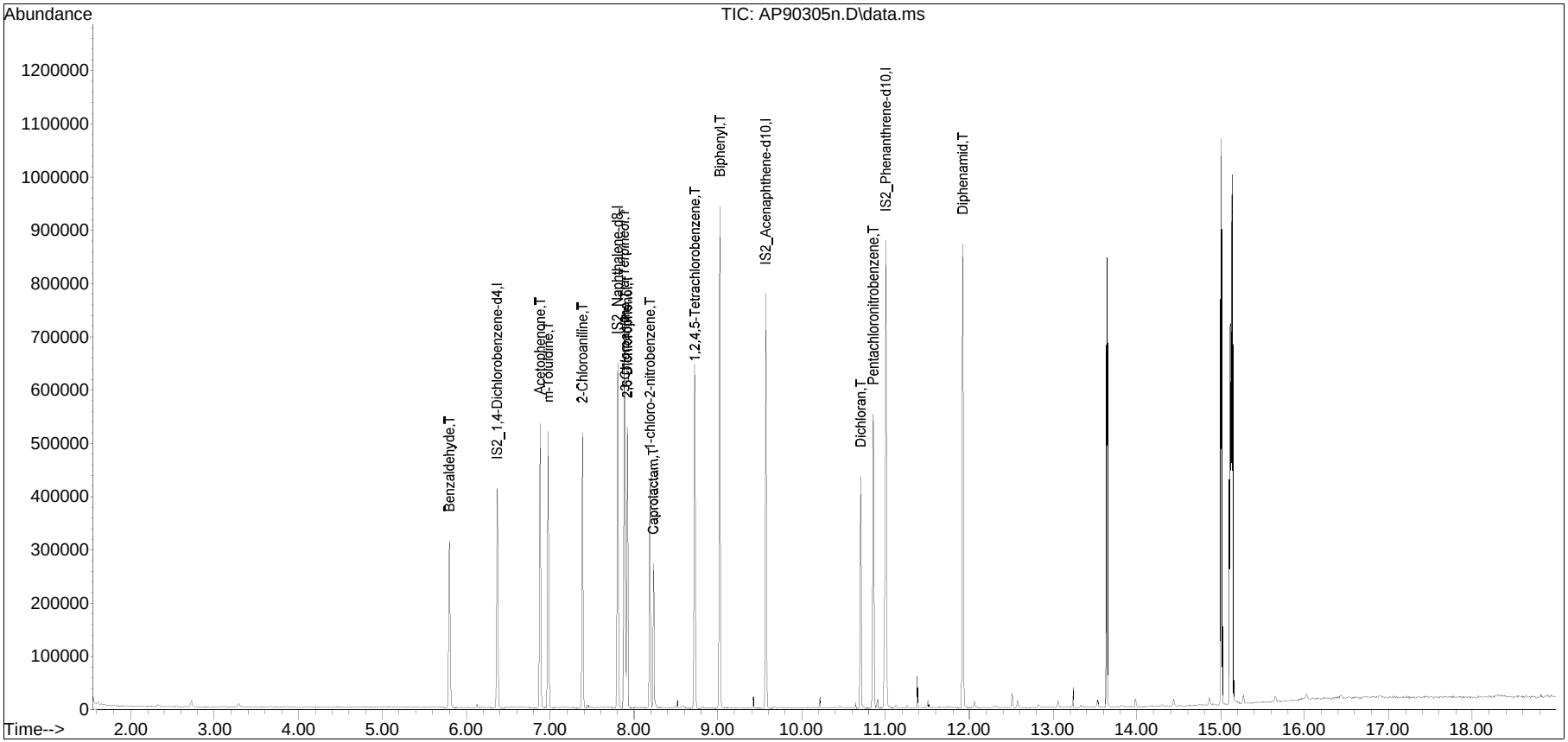
(#) = qualifier out of range (m) = manual integration (+) = signals summed

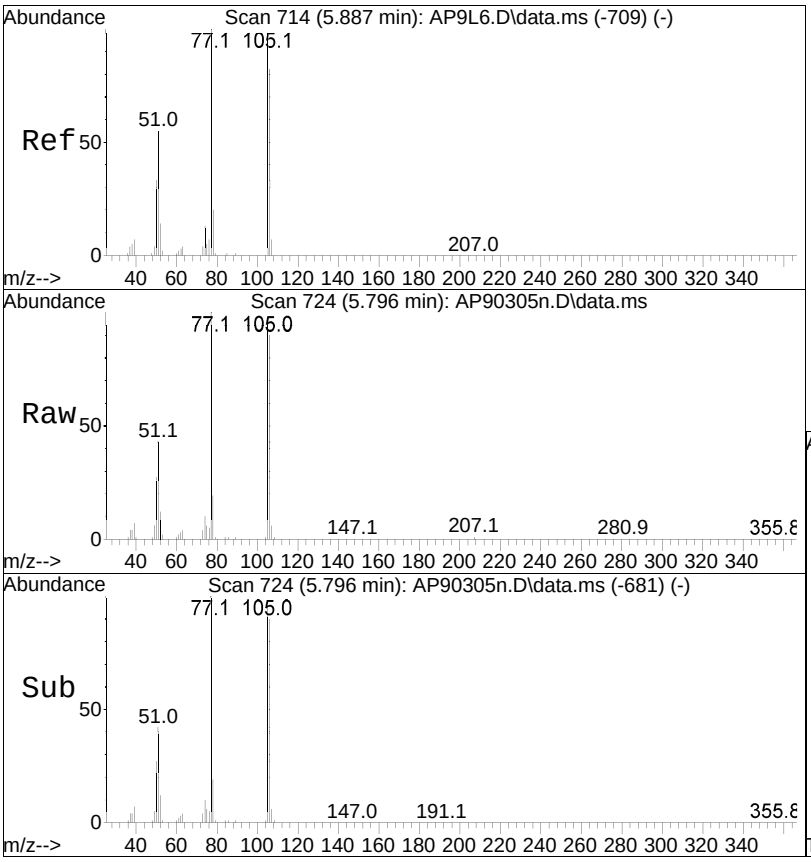
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : AP90305n.D
Acq On : 6 Mar 2025 1:12 am
Operator : SV106:imk
Sample : WG2037122-4,32,,AP9 RVT CCV Lot # 11152
Misc : WG2037122,,ical21604
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 06 01:55:47 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 01:56:38 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

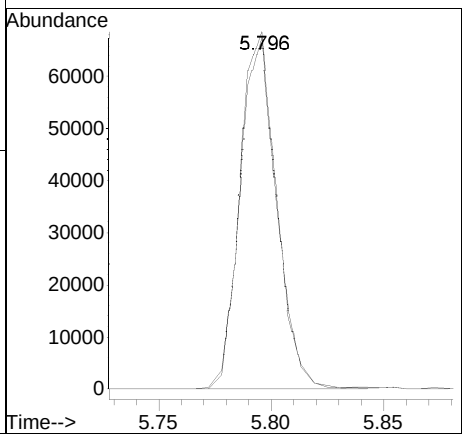


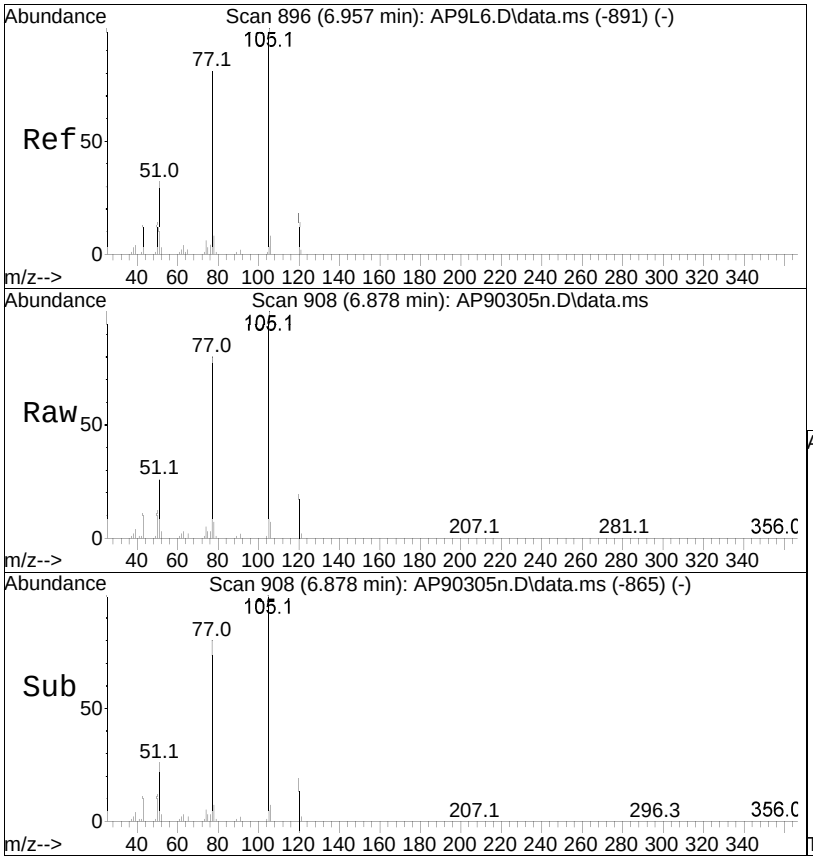


#28
Benzaldehyde
Concen: 4.64 ug/ml
RT: 5.796 min Scan# 724
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:105 Resp: 75558

Ion	Ratio	Lower	Upper
105	100		
77	102.8	82.2	123.4

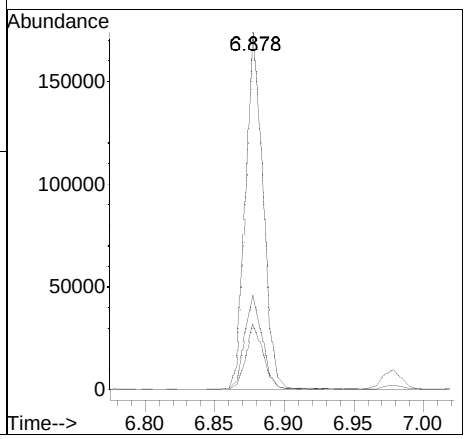


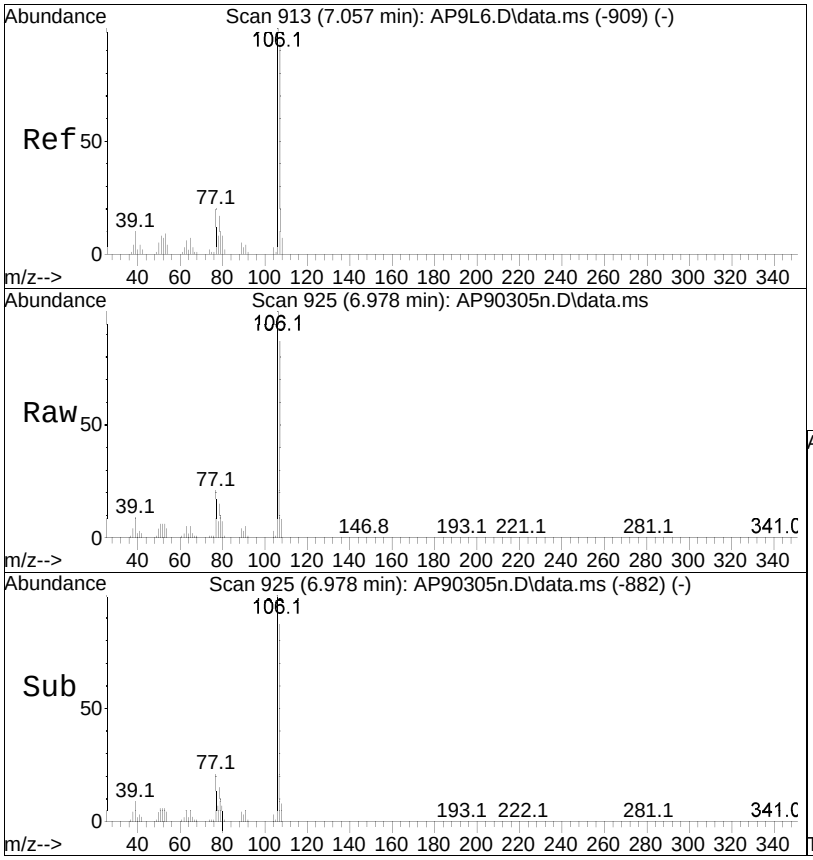


#29
Acetophenone
Concen: 4.80 ug/ml
RT: 6.878 min Scan# 908
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:105 Resp: 150915

Ion	Ratio	Lower	Upper
105	100		
120	18.1	20.5	30.7#
51	26.8	34.9	52.3#

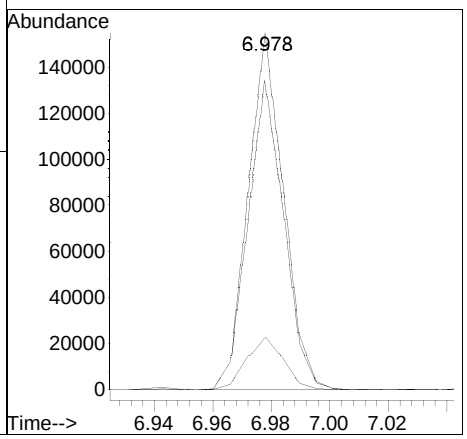


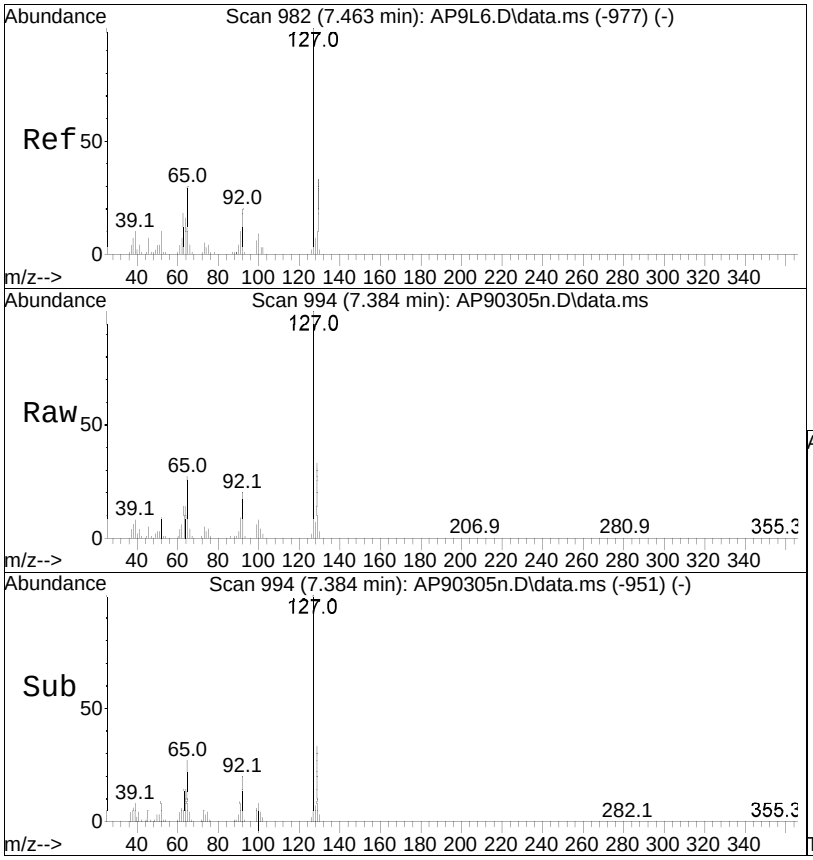


#30
m-Toluidine
Concen: 4.71 ug/ml
RT: 6.978 min Scan# 925
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:106 Resp: 130576

Ion	Ratio	Lower	Upper
106	100		
107	87.8	75.7	113.5
79	15.6	11.8	17.8

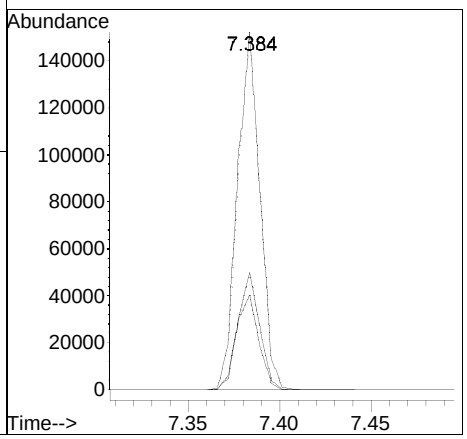


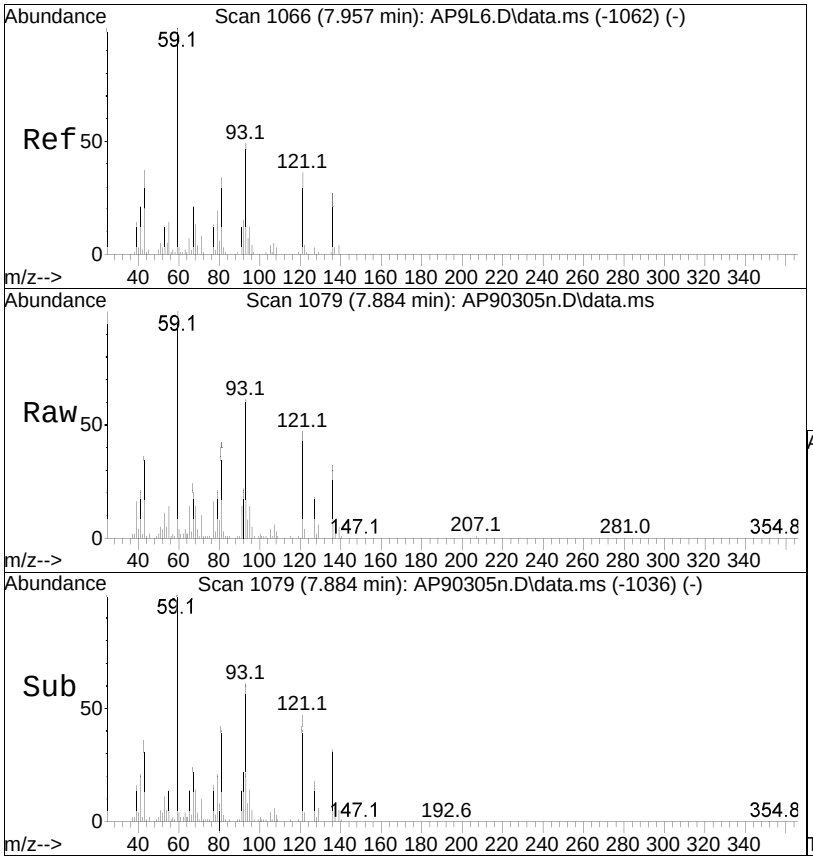


#31
2-Chloroaniline
Concen: 4.65 ug/ml
RT: 7.384 min Scan# 994
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:127 Resp: 128860

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.9	38.9
65	26.6	26.3	39.5

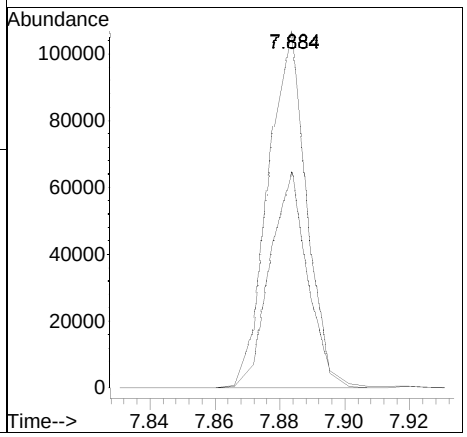


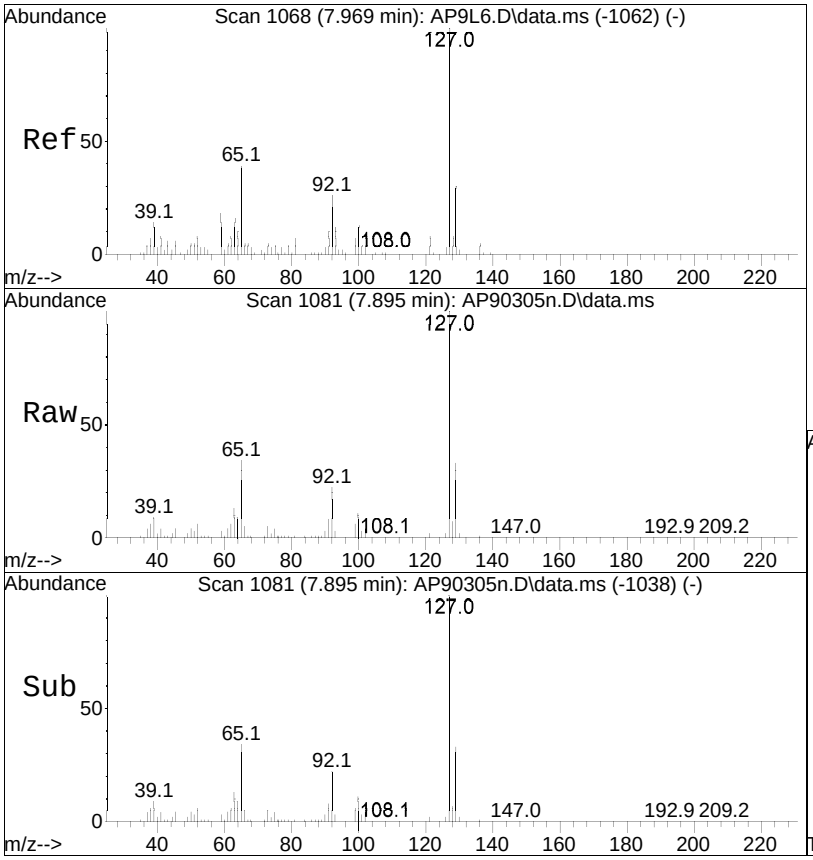


#56
a-Terpineol
Concen: 5.00 ug/ml
RT: 7.884 min Scan# 1079
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion: 59 Resp: 86884

Ion	Ratio	Lower	Upper
59	100		
93	60.7	35.6	53.4#

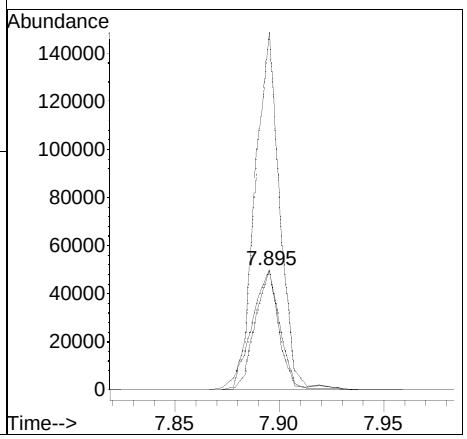


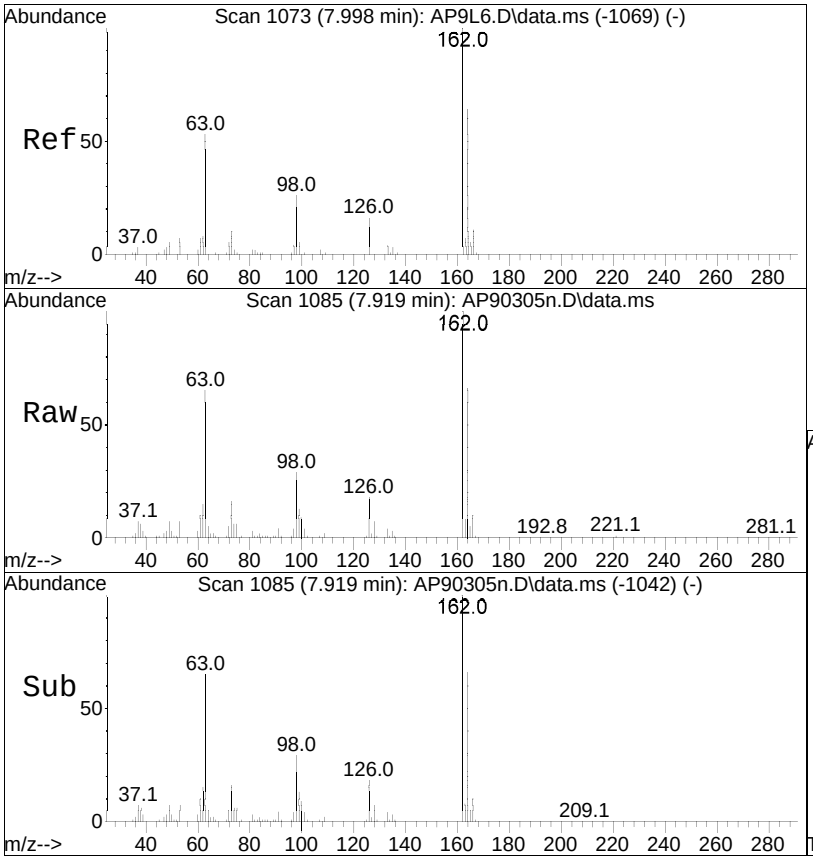


#57
3-Chloroaniline
Concen: 5.69 ug/ml
RT: 7.895 min Scan# 1081
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion: 65 Resp: 46413

Ion	Ratio	Lower	Upper
65	100		
127	260.1	243.2	364.8
129	88.6	78.8	118.2

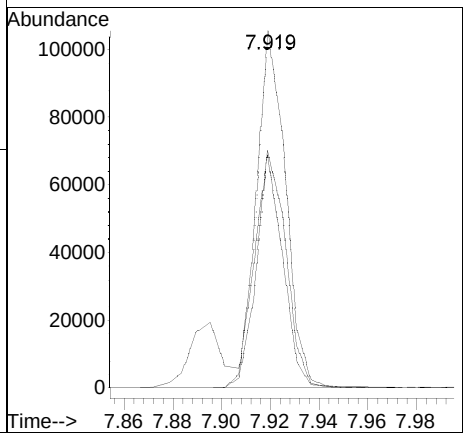


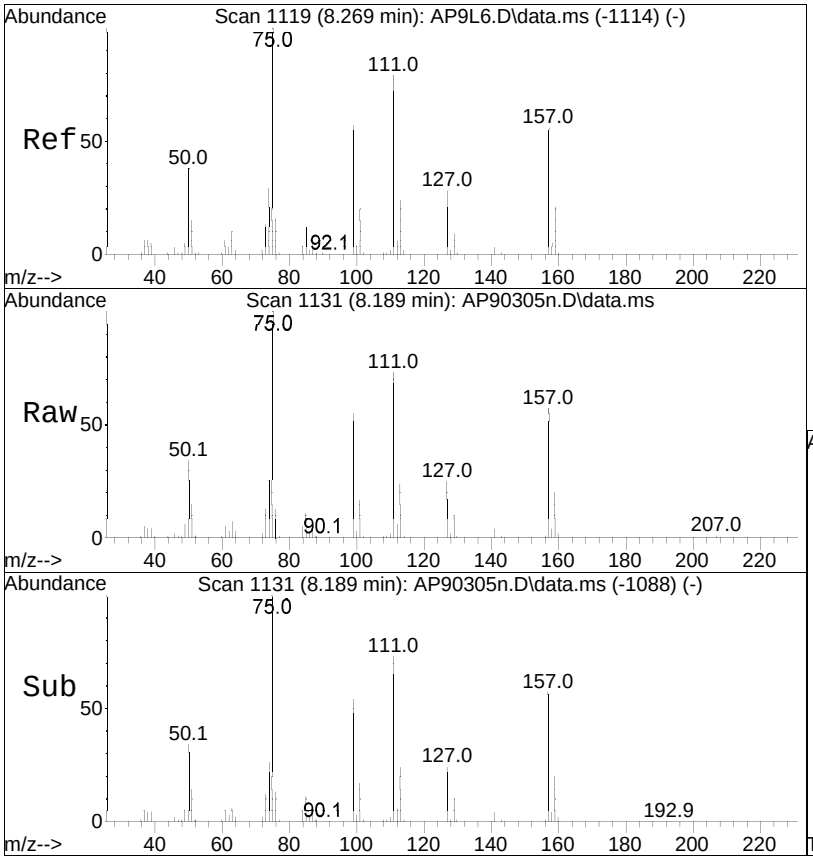


#58
2,6-Dichlorophenol
Concen: 4.75 ug/ml
RT: 7.919 min Scan# 1085
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:162 Resp: 87701

Ion	Ratio	Lower	Upper
162	100		
164	66.6	51.1	76.7
63	62.4	60.8	91.2

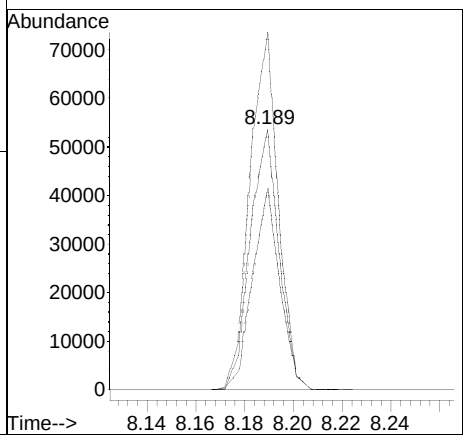


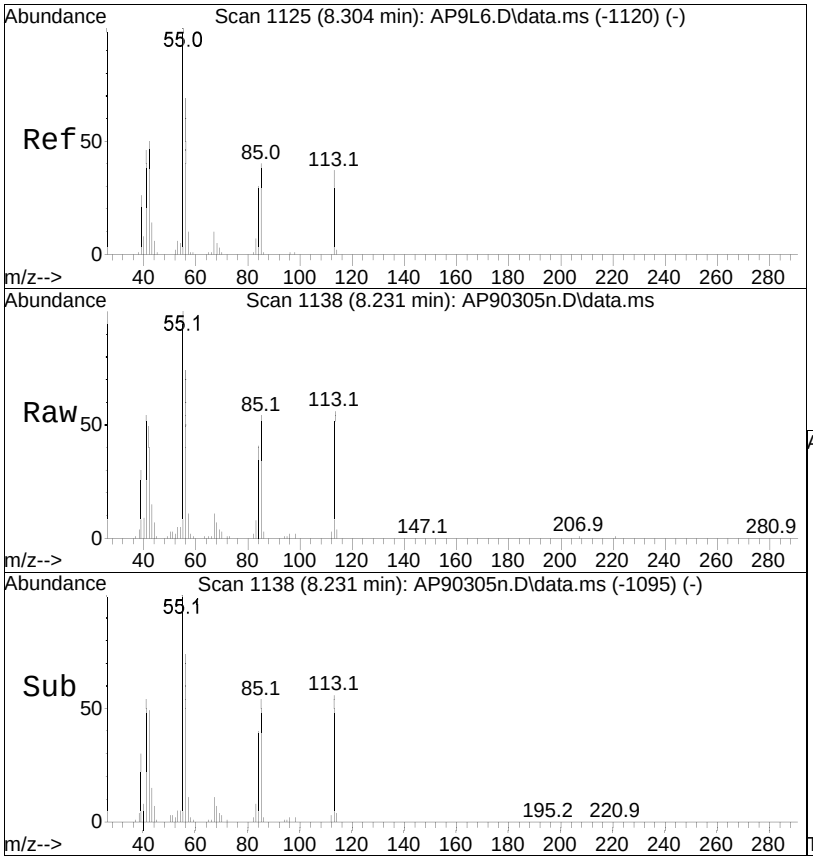


#59
1-chloro-2-nitrobenzene
Concen: 4.87 ug/ml
RT: 8.189 min Scan# 1131
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:111 Resp: 43672

Ion	Ratio	Lower	Upper
111	100		
157	74.1	0.0	0.0#
75	135.2	28.2	42.2#

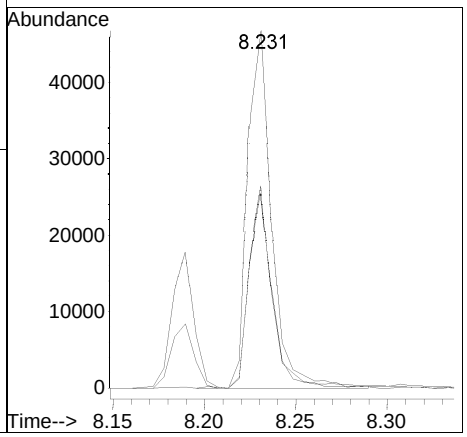


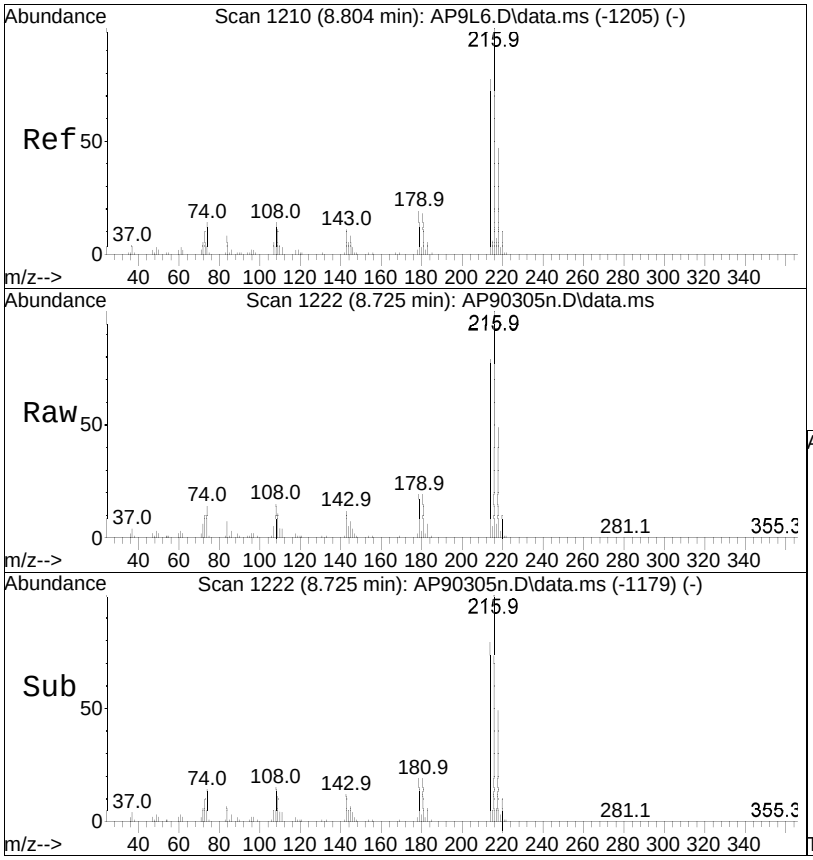


#60
Caprolactam
Concen: 4.74 ug/ml
RT: 8.231 min Scan# 1138
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion: 55 Resp: 42874

Ion	Ratio	Lower	Upper
55	100		
85	52.9	19.8	29.6#
113	52.6	29.6	44.4#

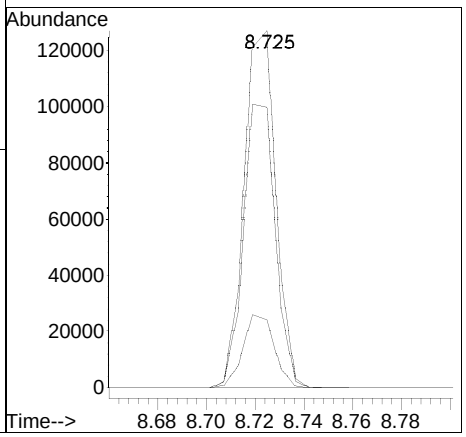


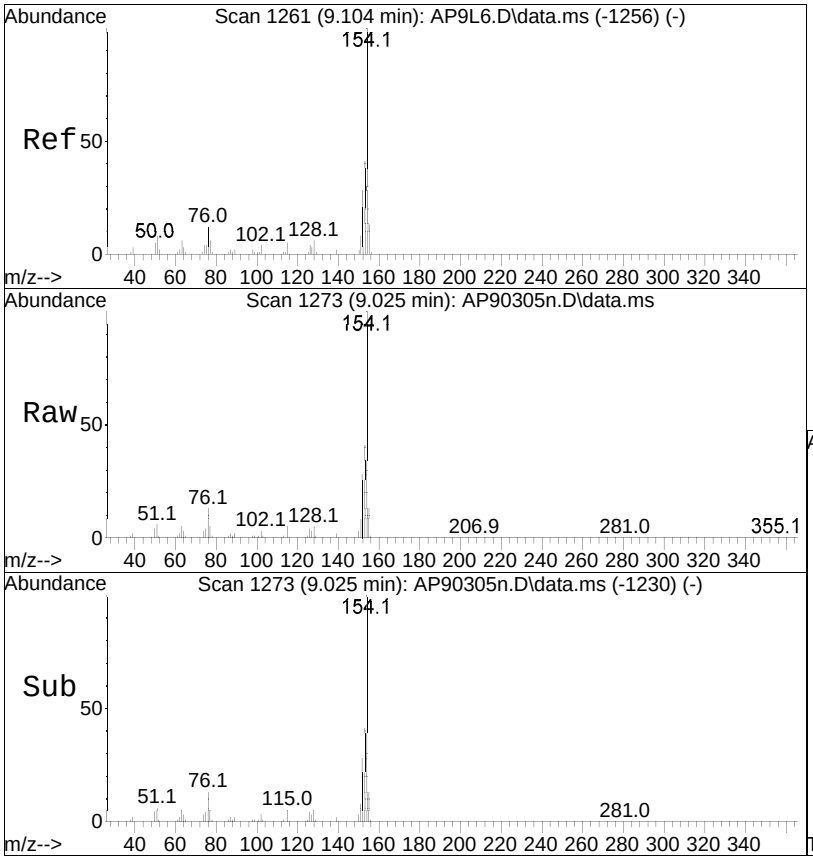


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.67 ug/ml
RT: 8.725 min Scan# 1222
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:216 Resp: 115586

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.7	95.5
179	20.3	19.0	28.6

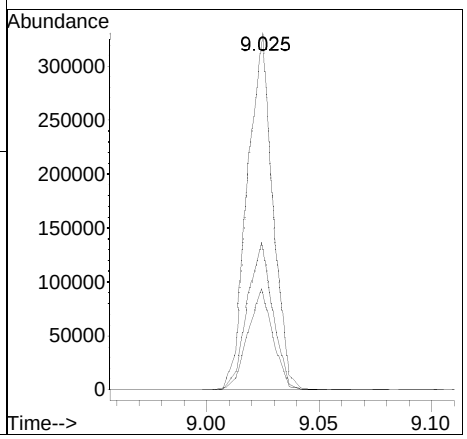


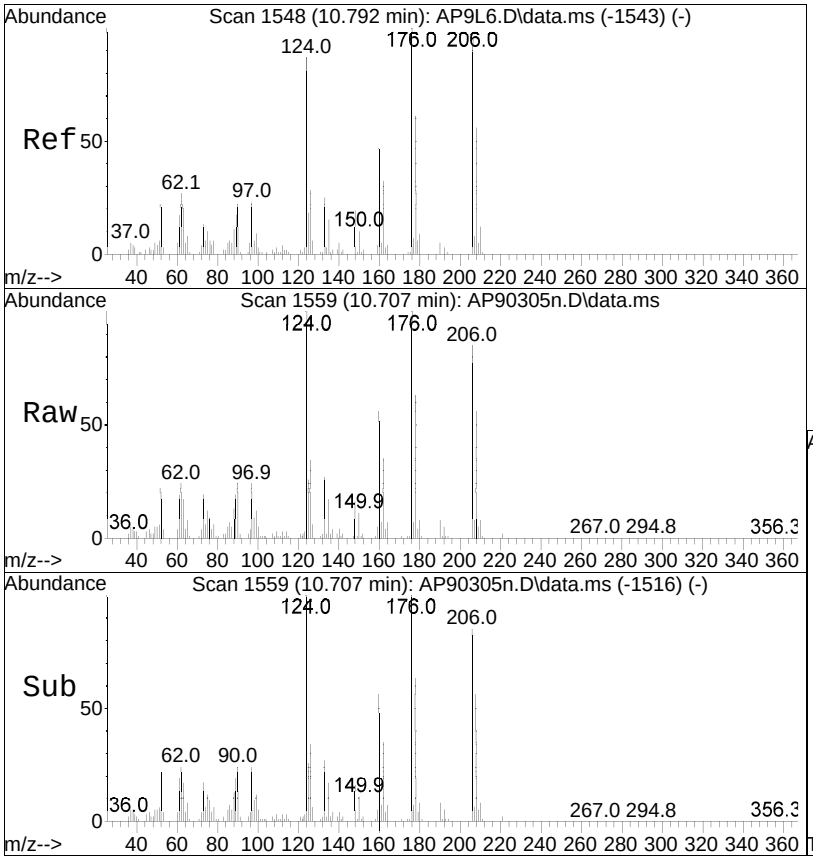


#62
Biphenyl
Concen: 4.62 ug/ml
RT: 9.025 min Scan# 1273
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:154 Resp: 258189

Ion	Ratio	Lower	Upper
154	100		
153	41.8	32.3	48.5
152	28.3	22.5	33.7

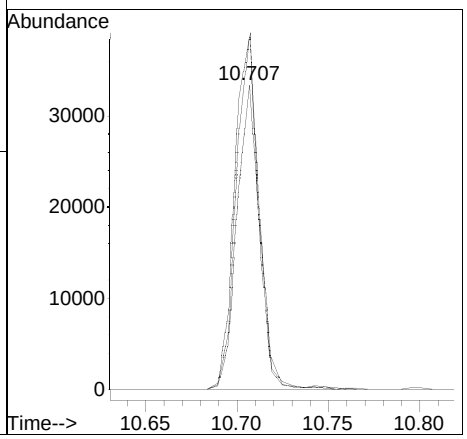


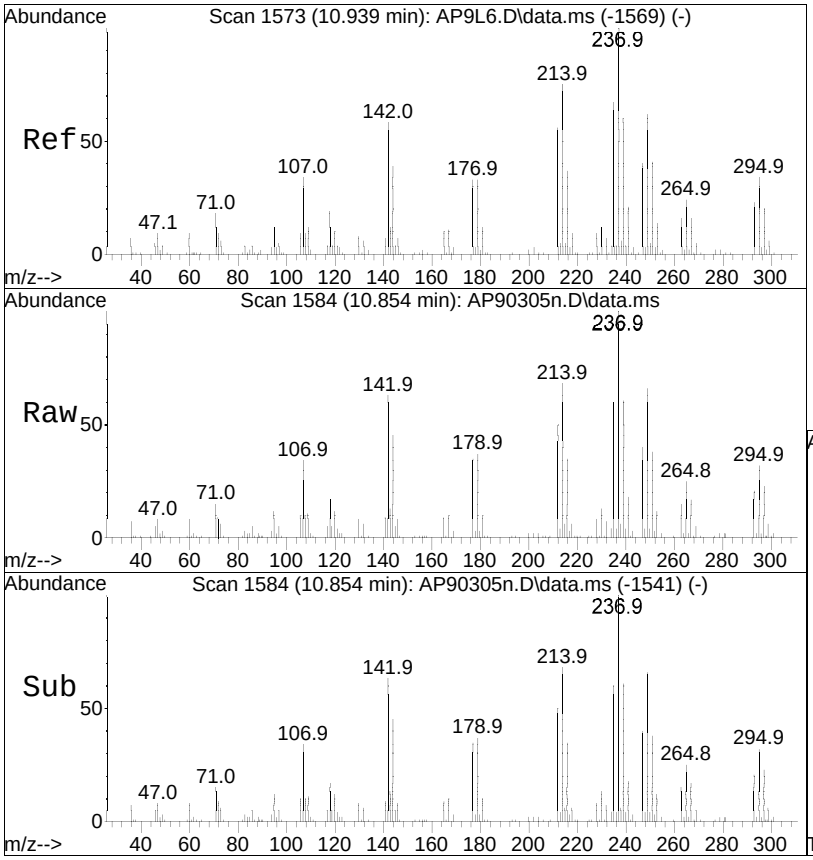


#84
Dichloran
Concen: 4.30 ug/ml
RT: 10.707 min Scan# 1559
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:206 Resp: 28892

Ion	Ratio	Lower	Upper
206	100		
176	115.4	104.6	157.0
124	119.8	130.5	195.7#

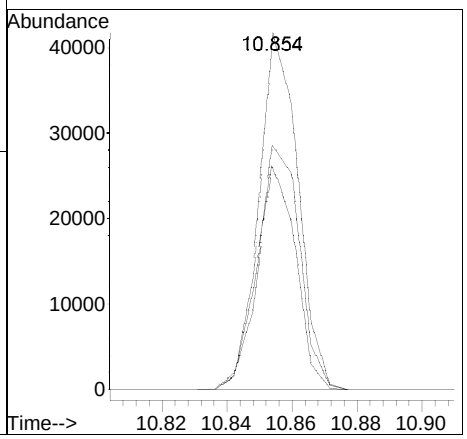


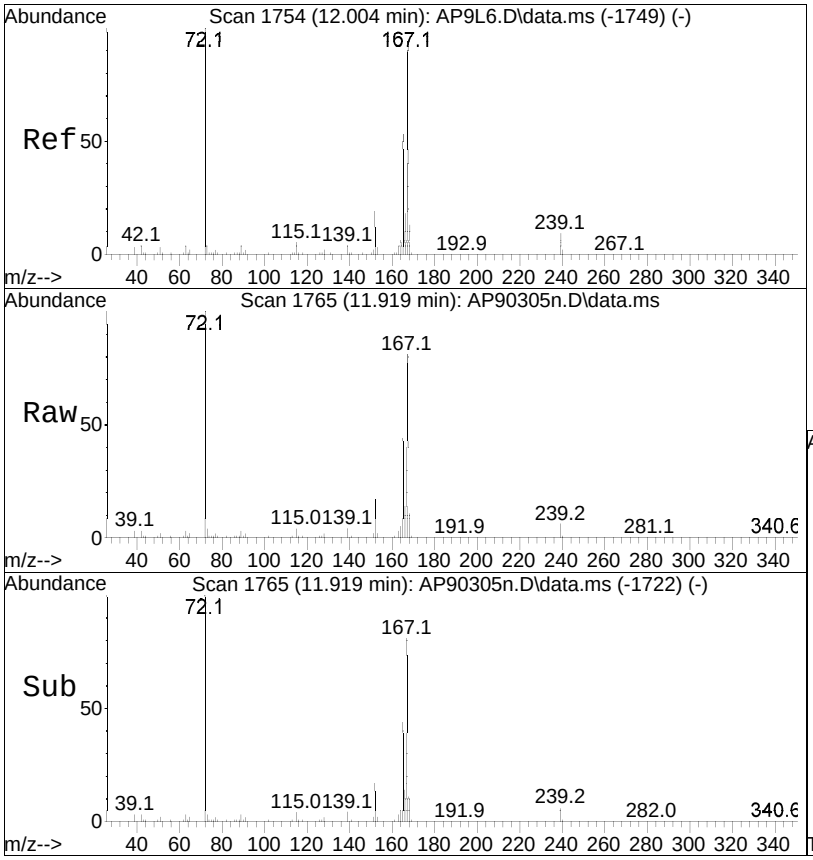


#85
Pentachloronitrobenzene
Concen: 4.86 ug/ml
RT: 10.854 min Scan# 1584
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:237 Resp: 34817

Ion	Ratio	Lower	Upper
237	100		
142	63.4	77.0	115.4#
214	72.3	58.2	87.4

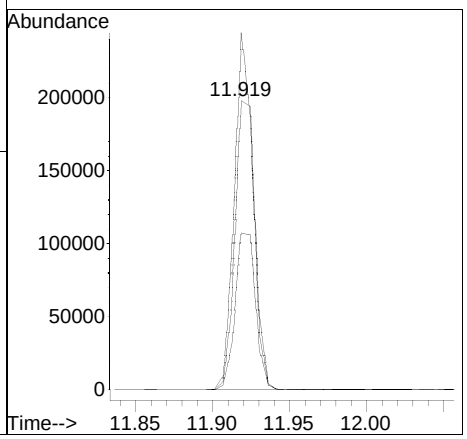




#99
Diphenamid
Concen: 4.83 ug/ml
RT: 11.919 min Scan# 1765
Delta R.T. 0.000 min
Lab File: AP90305n.D
Acq: 6 Mar 2025 1:12 am

Tgt Ion:167 Resp: 181590

Ion	Ratio	Lower	Upper
167	100		
72	111.3	109.7	164.5
165	55.1	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\250305NRVT\	QMethod	: FS241009SV106.m
Data File	: AP90305n.D	Operator	: SV106:imk
Date Inj'd	: 3/6/2025 1:12 am	Instrument	: SV 106
Sample	: WG2037122-4,32,,AP9 RVT CC	Quant Date	: 3/6/2025 1:56 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250305NRVT\
Data File : ADP0305n.D
Acq On : 6 Mar 2025 1:36 am
Operator : SV106:imk
Sample : WG2037122-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2037122,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 06 01:59:48 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 02:00:37 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	85	0.00
33	t	1,4-Dioxane		0.485	0.566	-16.7	122	0.00
34	T	n-Decane		1.486	1.458	1.9	98	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	87	0.00
87	T	Atrazine		0.415	0.335	19.3	74	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	85	0.00
101	T	n-Octadecane		0.485	0.438	9.7	77	0.00
102	T	Parathion	*	5.000	4.559	8.8	88	0.00
103	T	3,3'-Dimethylbenzidine		0.821	0.661	19.5	75	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : ADP0305n.D
Acq On : 6 Mar 2025 1:36 am
Operator : SV106:imk
Sample : WG2037122-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2037122,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 06 01:59:48 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 02:00:37 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
32)	IS3_1,4-Dichlorobenzen...	6.372	152	71316	4.000	ug/ml		0.00
86)	IS3_Acenaphthene-d10	9.572	164	154260	4.000	ug/ml		0.00
100)	IS3_Phenanthrene-d10	11.007	188	299241	4.000	ug/ml	#	0.00
	System Monitoring Compounds							
	Target Compounds							Qvalue
33)	1,4-Dioxane	1.760	88	50447	5.828	ug/ml	#	88
34)	n-Decane	6.272	57	129957	4.905	ug/ml	#	43
87)	Atrazine	10.783	200	64677	4.041	ug/ml		94
101)	n-Octadecane	10.995	57	163681	4.507	ug/ml	#	1
102)	Parathion	11.801	109	40374	4.559	ug/ml		96
103)	3,3'-Dimethylbenzidine	13.083	212	247188	4.026	ug/ml		99

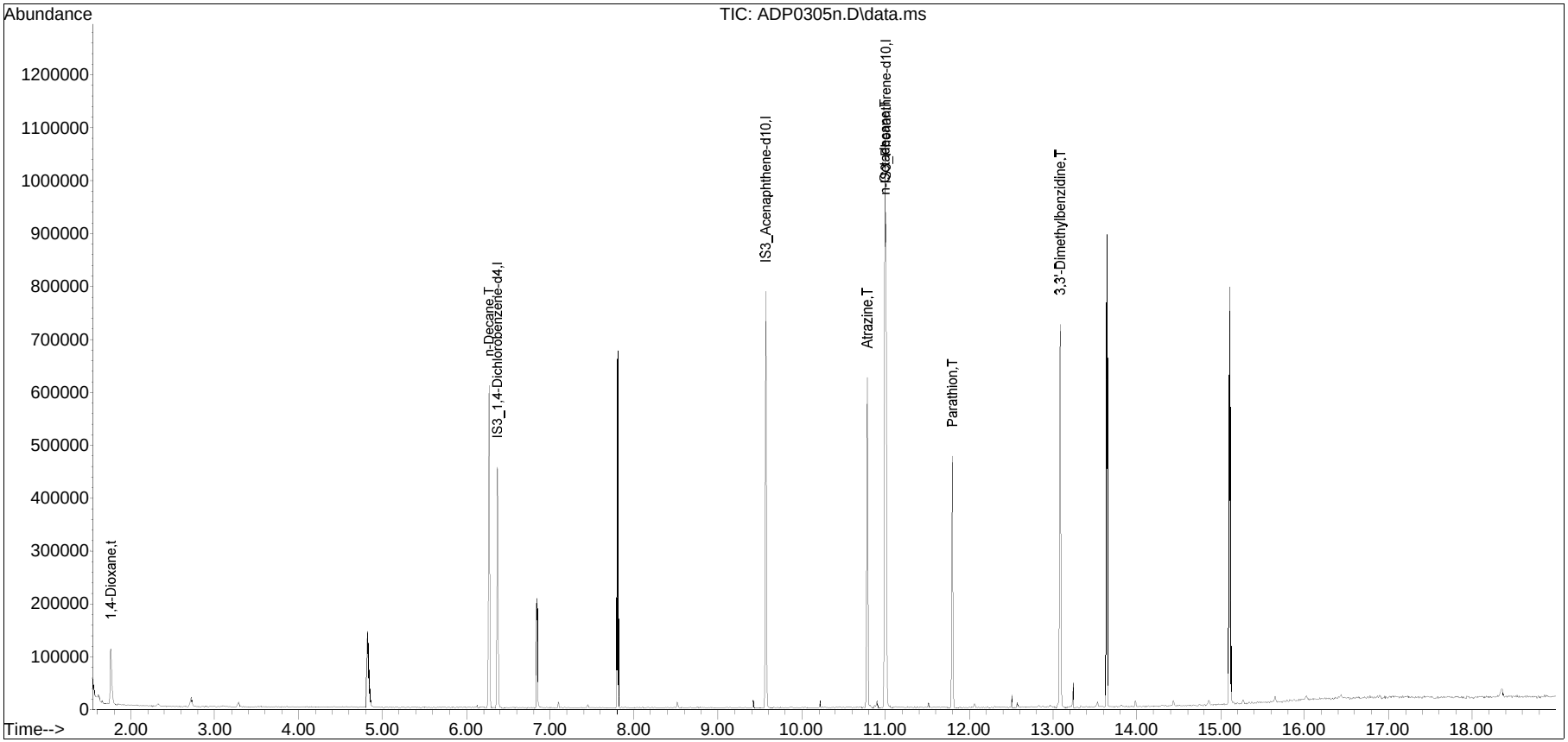
(#) = qualifier out of range (m) = manual integration (+) = signals summed

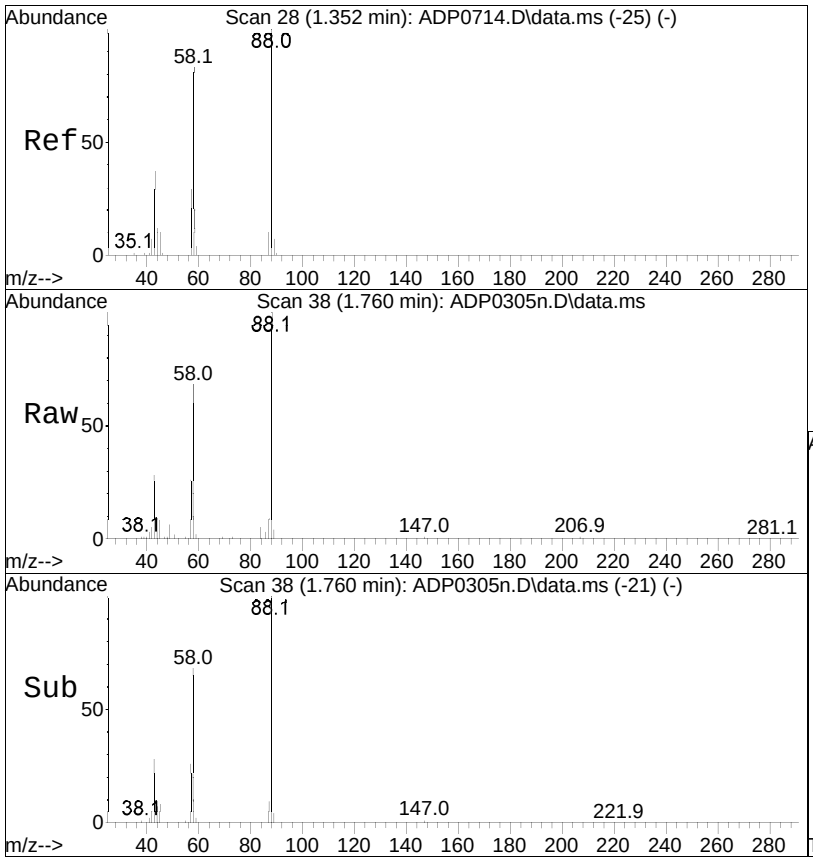
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305NRVT\
Data File : ADP0305n.D
Acq On : 6 Mar 2025 1:36 am
Operator : SV106:imk
Sample : WG2037122-5,32,,ADP RVT CCV Lot # 11153
Misc : WG2037122,,ical21604
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 06 01:59:48 2025
Quant Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 02:00:37 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

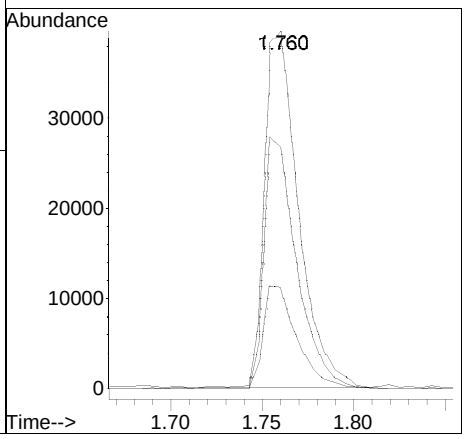


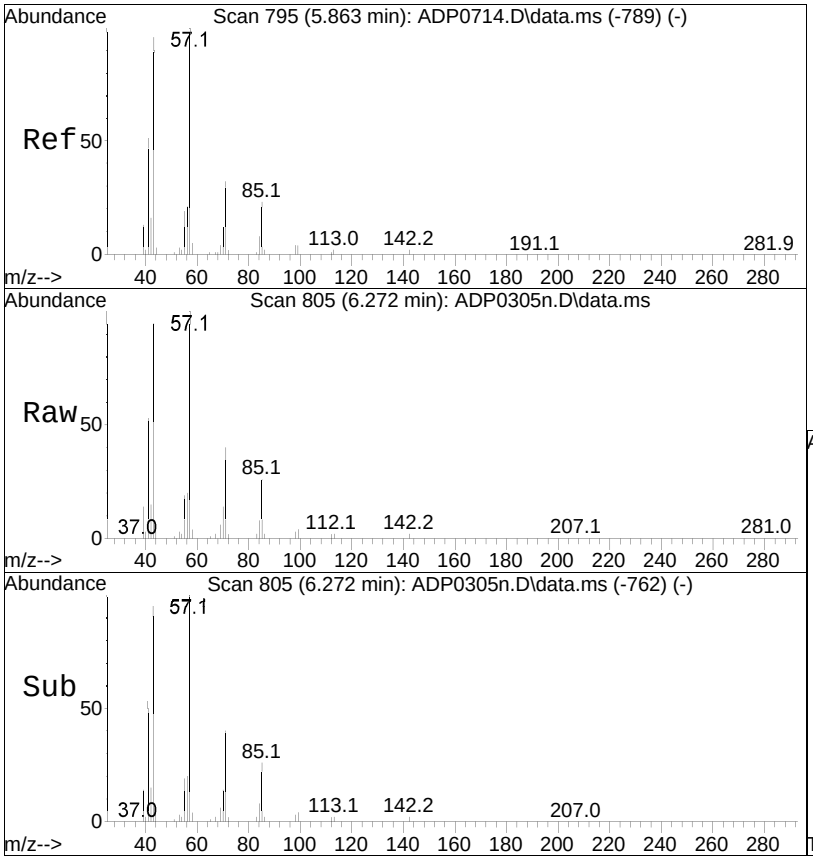


#33
1,4-Dioxane
Concen: 5.83 ug/ml
RT: 1.760 min Scan# 38
Delta R.T. 0.000 min
Lab File: ADP0305n.D
Acq: 6 Mar 2025 1:36 am

Tgt Ion: 88 Resp: 50447

Ion	Ratio	Lower	Upper
88	100		
58	68.2	44.8	67.2#
43	29.2	22.4	33.6

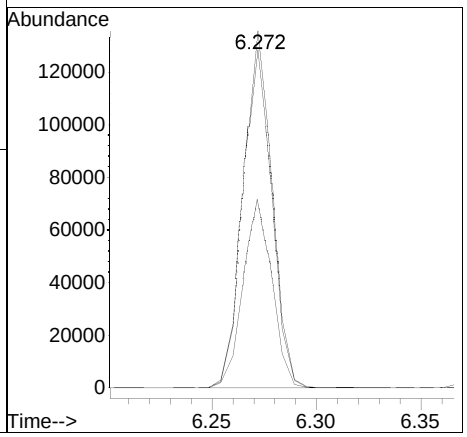


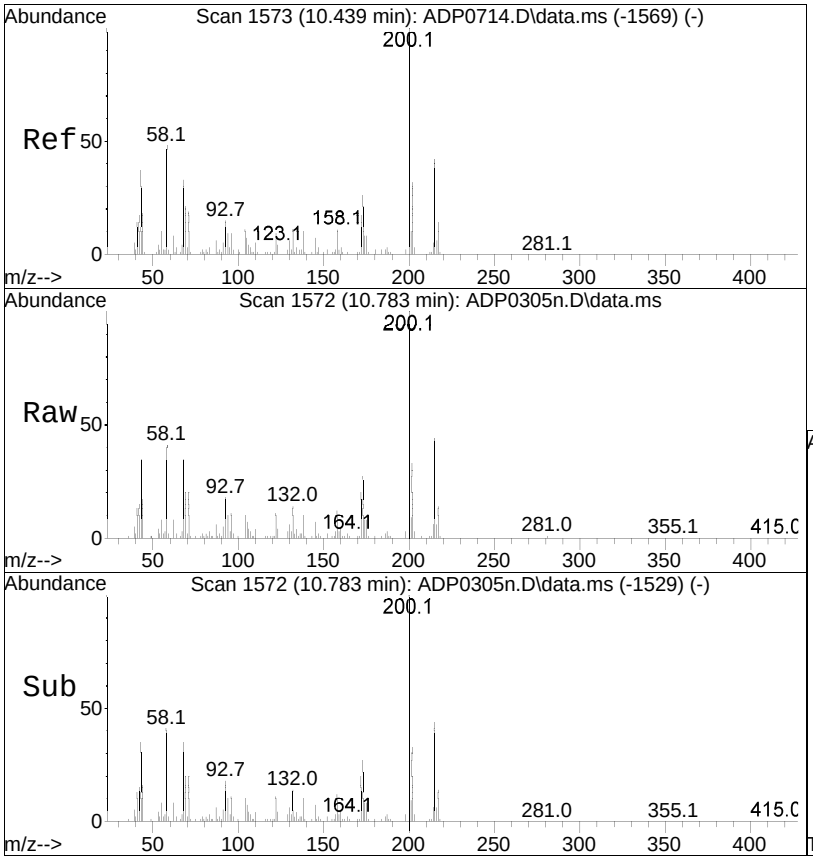


#34
n-Decane
Concen: 4.91 ug/ml
RT: 6.272 min Scan# 805
Delta R.T. 0.000 min
Lab File: ADP0305n.D
Acq: 6 Mar 2025 1:36 am

Tgt Ion: 57 Resp: 129957

Ion	Ratio	Lower	Upper
57	100		
43	94.9	0.2	0.2#
41	52.6	0.2	0.2#

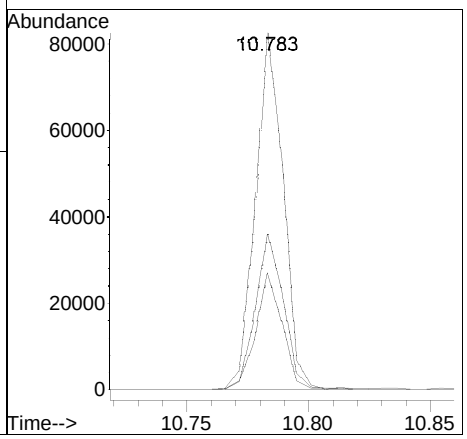


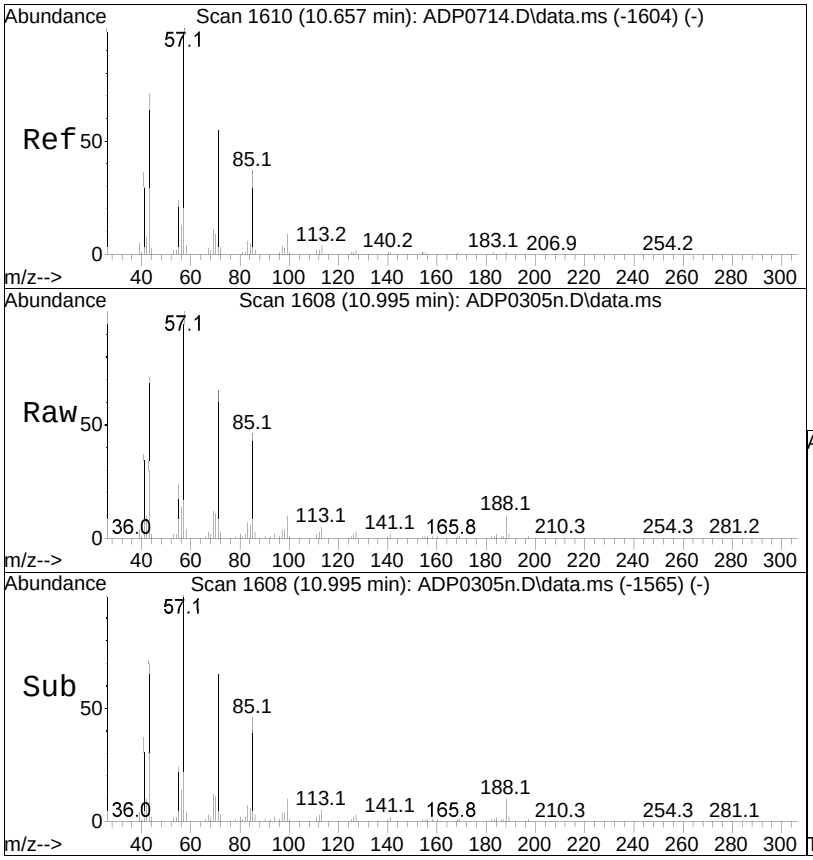


#87
Atrazine
Concen: 4.04 ug/ml
RT: 10.783 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADP0305n.D
Acq: 6 Mar 2025 1:36 am

Tgt Ion:200 Resp: 64677

Ion	Ratio	Lower	Upper
200	100		
202	31.7	25.8	38.6
215	44.3	40.2	60.4

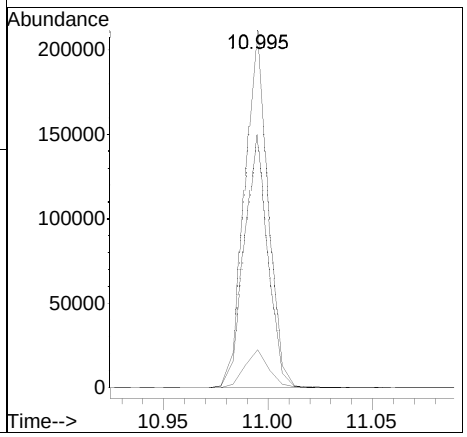


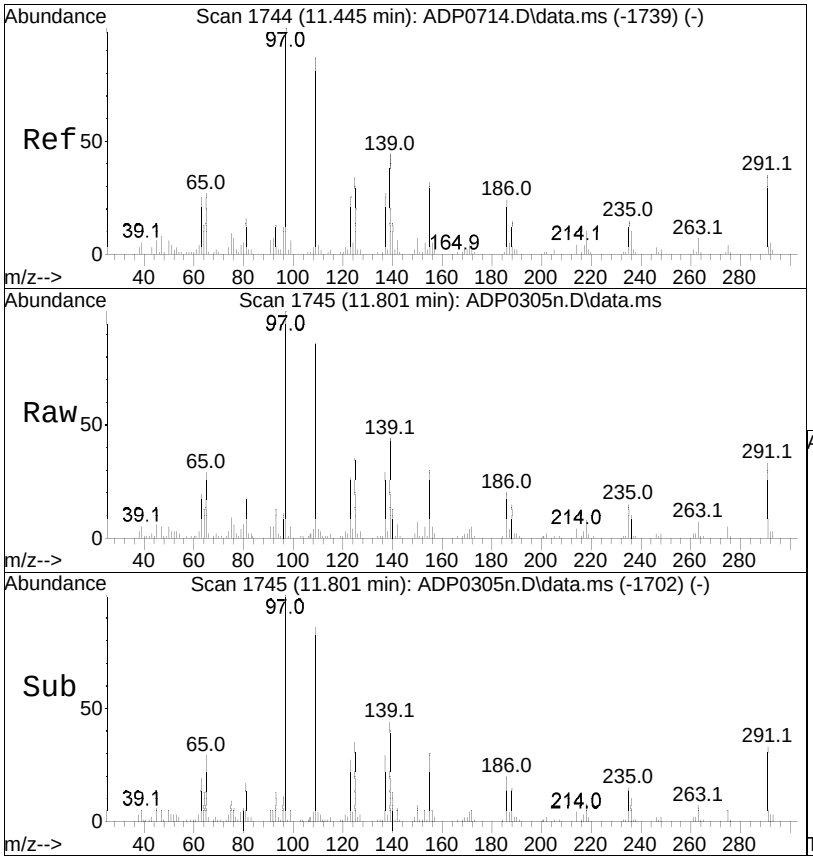


#101
n-Octadecane
Concen: 4.51 ug/ml
RT: 10.995 min Scan# 1608
Delta R.T. 0.000 min
Lab File: ADP0305n.D
Acq: 6 Mar 2025 1:36 am

Tgt Ion: 57 Resp: 163681

Ion	Ratio	Lower	Upper
57	100		
43	71.8	9.0	13.6#
70	10.9	0.2	0.2#

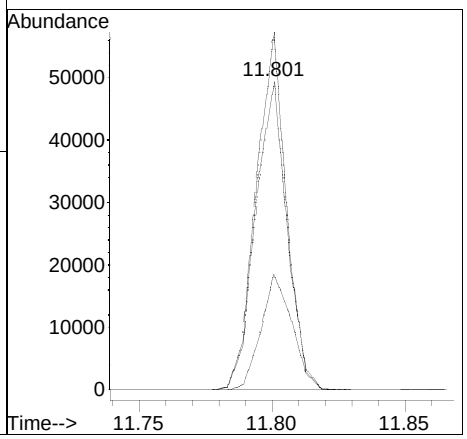


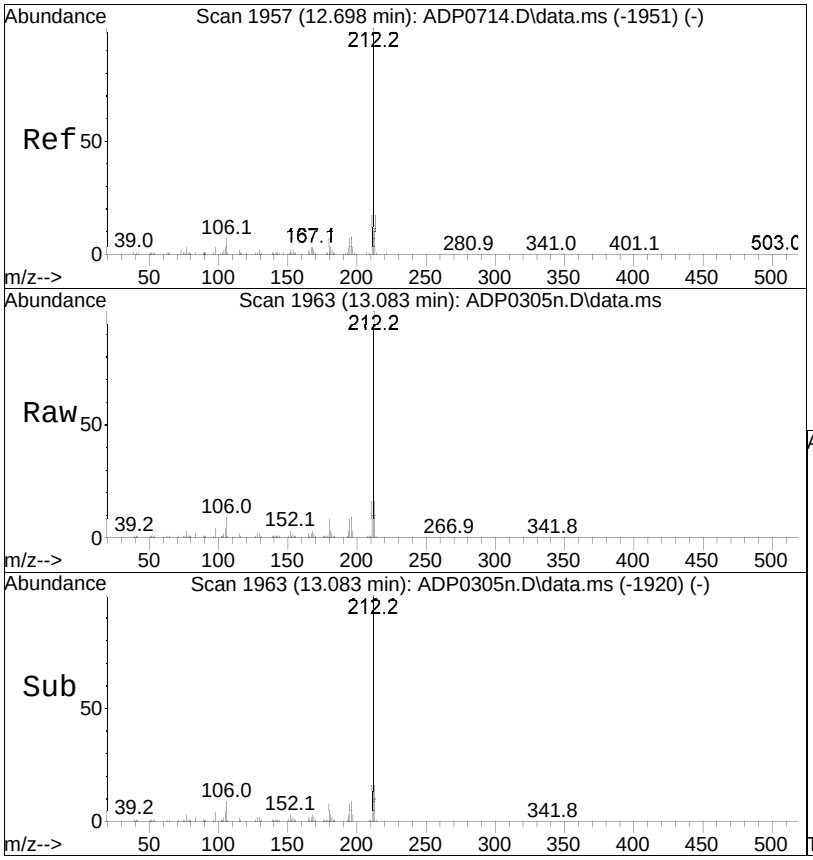


#102
Parathion
Concen: 4.56 ug/ml
RT: 11.801 min Scan# 1745
Delta R.T. 0.000 min
Lab File: ADP0305n.D
Acq: 6 Mar 2025 1:36 am

Tgt Ion:109 Resp: 40374

Ion	Ratio	Lower	Upper
109	100		
97	110.9	87.4	131.2
291	37.0	34.2	51.2

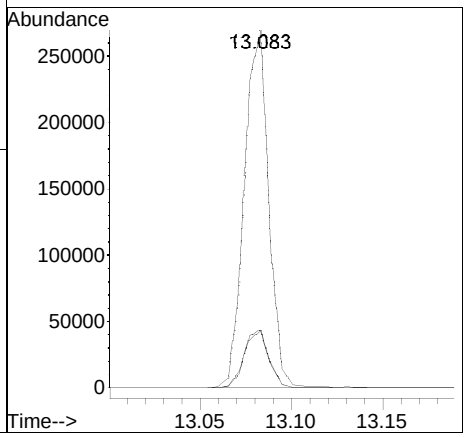




#103
3,3'-Dimethylbenzidine
Concen: 4.03 ug/ml
RT: 13.083 min Scan# 1963
Delta R.T. 0.000 min
Lab File: ADP0305n.D
Acq: 6 Mar 2025 1:36 am

Tgt Ion:212 Resp: 247188

Ion	Ratio	Lower	Upper
212	100		
211	16.5	12.9	19.3
213	16.2	13.2	19.8



Manual Integration Report

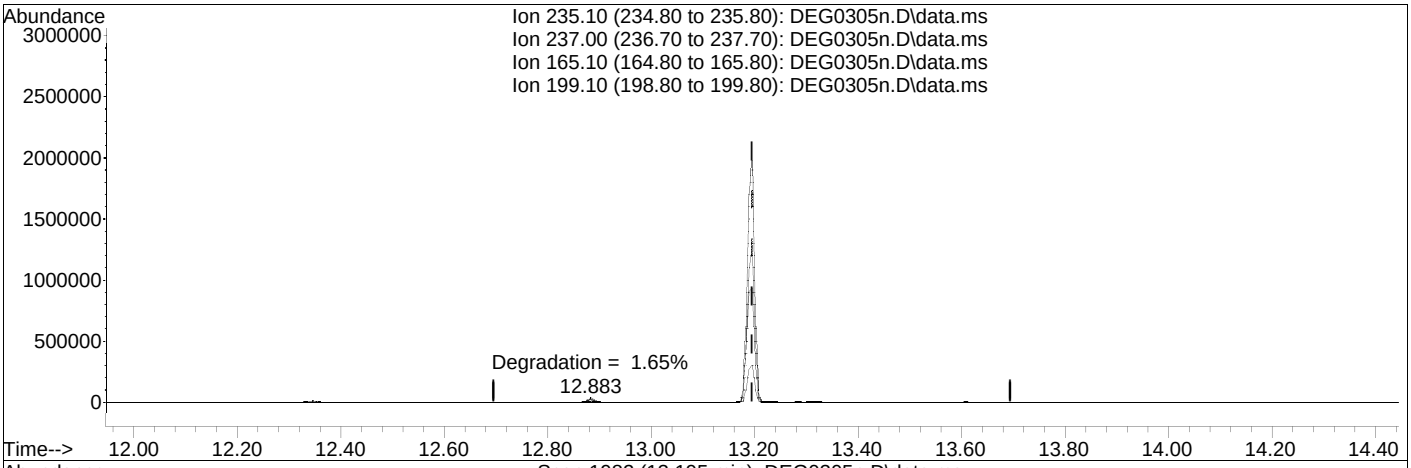
Data Path	: I:\8270\SV106\250305NRVT\	QMethod	: FS241009SV106.m
Data File	: ADP0305n.D	Operator	: SV106:imk
Date Inj'd	: 3/6/2025 1:36 am	Instrument	: SV 106
Sample	: WG2037122-5,32,,ADP RVT CC	Quant Date	: 3/6/2025 2:00 am

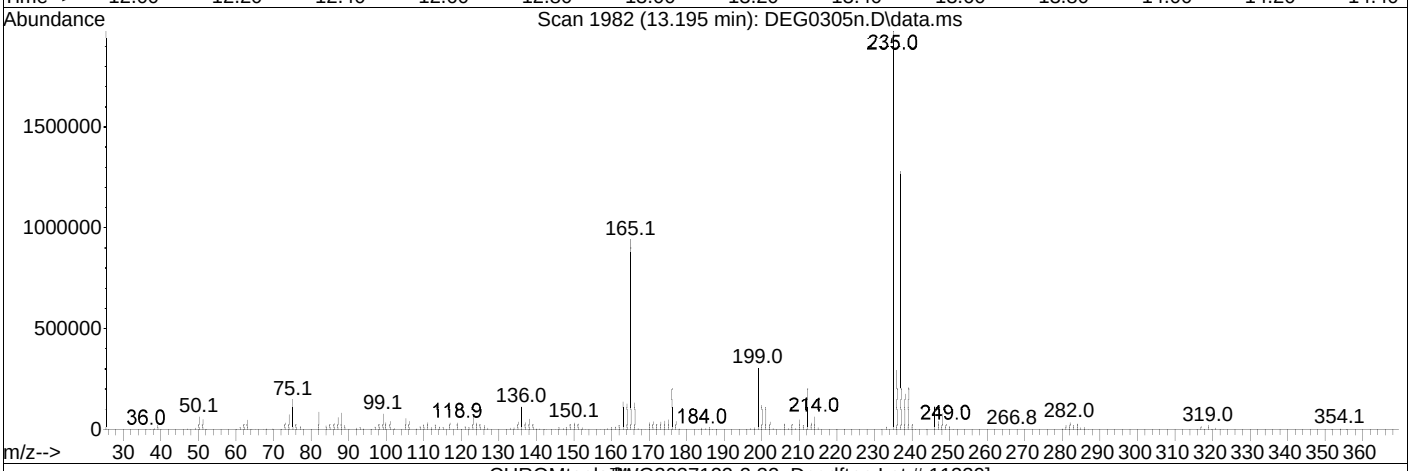
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250305NRVT\
Data File : DEG0305n.D
Acq On : 6 Mar 2025 12:25 am
Operator : SV106:imk
Sample : WG2037122-2,32,,Degdftpp Lot # 11339
Misc : WG2037122,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 06 00:45:17 2025
Quant Method : I:\8270\SV106\250305NRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools [WG2037122-2,32,,Degdftpp Lot # 11339]

(6) DDT (T)

13.195min (0.000) 299.51

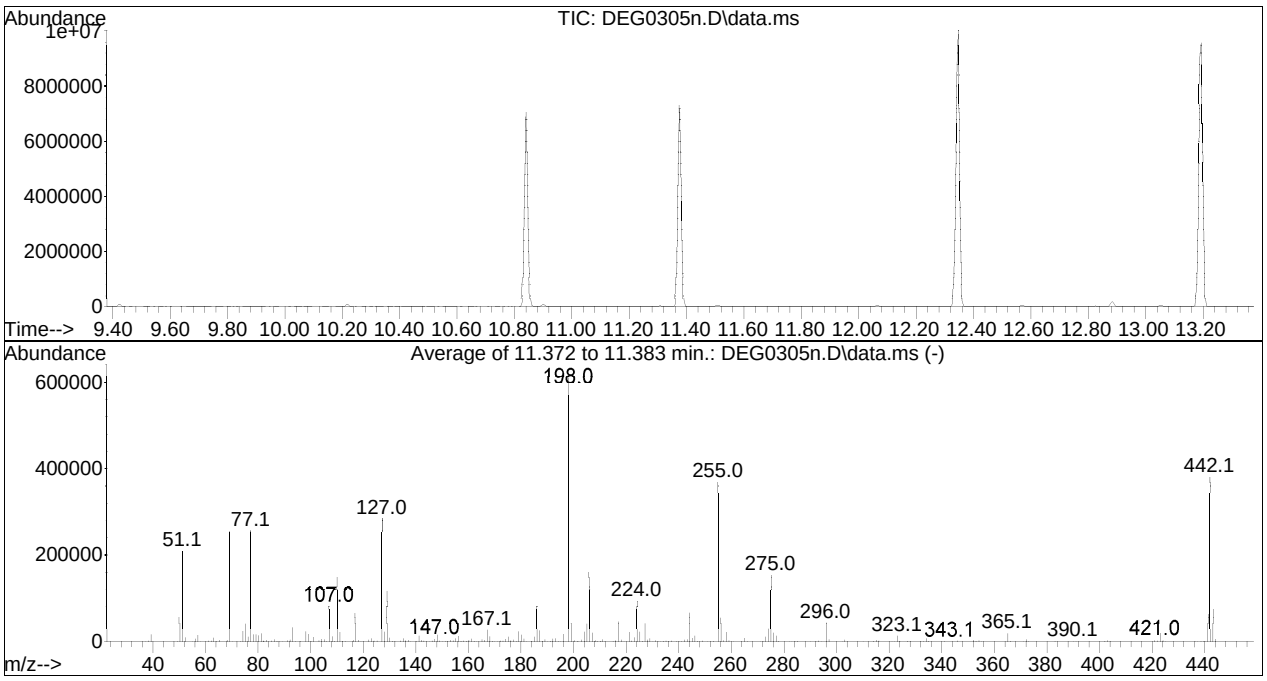
response 1825715

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.63
165.10	44.50	50.38
199.10	14.80	15.47

Data Path : I:\8270\SV106\250305NRVT\
Data File : DEG0305n.D
Acq On : 6 Mar 2025 12:25 am
Operator : SV106: ASK
Sample : WG2037122-1,32,,Degdftpp Lot # 11339
Misc : WG2037122,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\250305NRVT\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Mar 06 02:00:35 2025



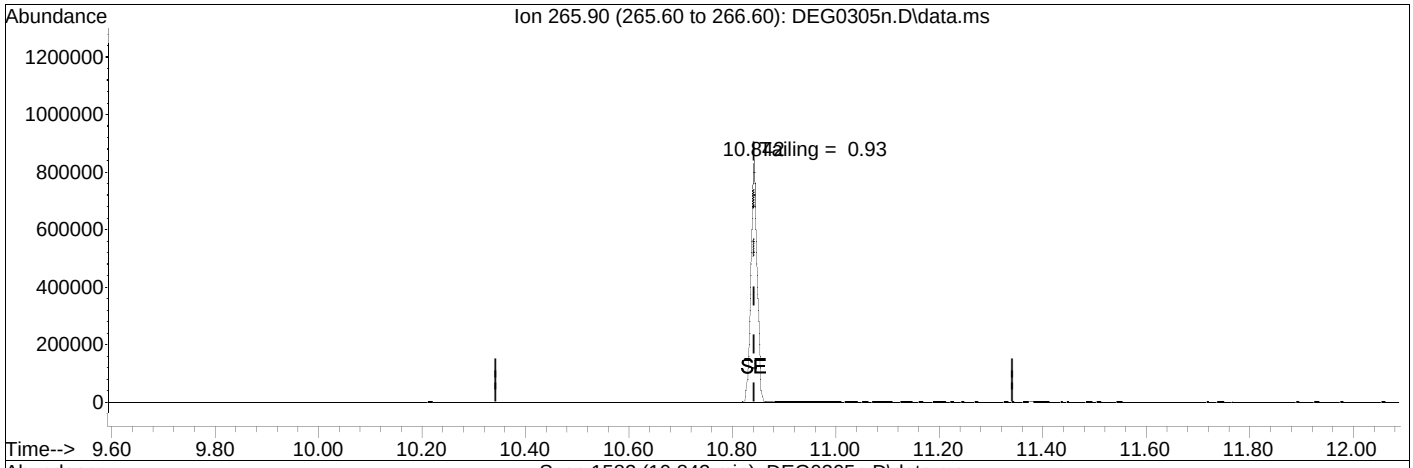
Spectrum Information: Average of 11.372 to 11.383 min.

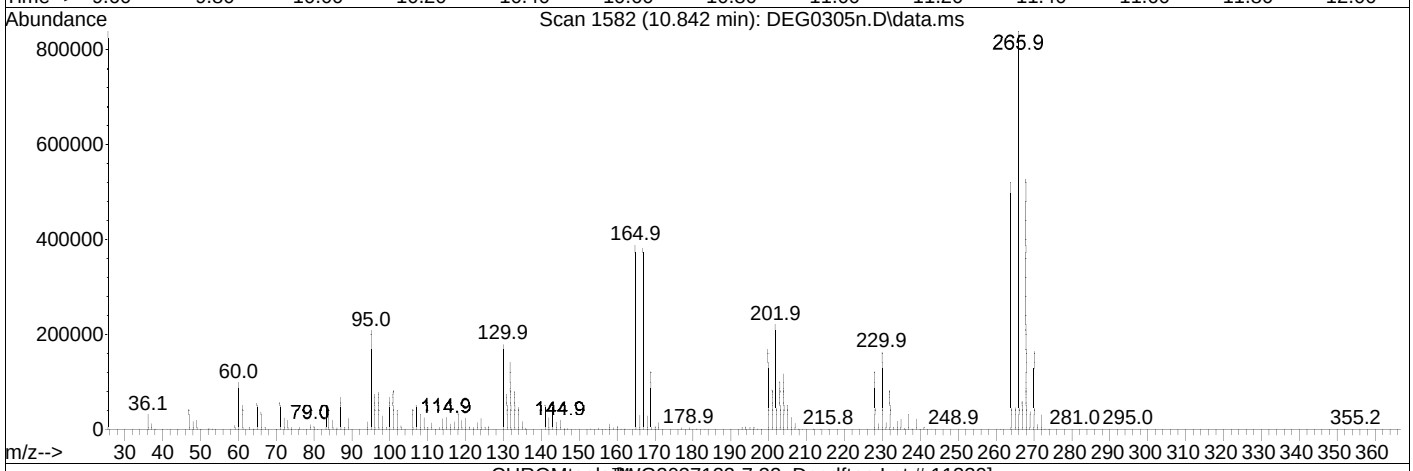
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.2	208949	PASS
68	69	0.00	2	1.7	4431	PASS
69	69	100	100	100.0	253768	PASS
70	69	0.00	2	0.4	972	PASS
127	198	10	80	46.5	283768	PASS
197	198	0.00	2	0.2	1026	PASS
198	198	100	100	100.0	610581	PASS
199	198	5	9	6.8	41411	PASS
275	198	10	60	25.3	154221	PASS
365	198	1	100	3.1	18799	PASS
441	442	0.01	24	16.4	62477	PASS
442	198	50	100	62.2	379840	PASS
443	442	15	24	19.3	73123	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250305NRVT\
Data File : DEG0305n.D
Acq On : 6 Mar 2025 12:25 am
Operator : SV106:imk
Sample : WG2037122-7,32,,Degdftpp Lot # 11339
Misc : WG2037122,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 06 00:45:17 2025
Quant Method : I:\8270\SV106\250305NRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools [WG2037122-7,32,,Degdftpp Lot # 11339]

(1) Pentachlorophenol (T)

10.842min (+ 0.000) 314.41

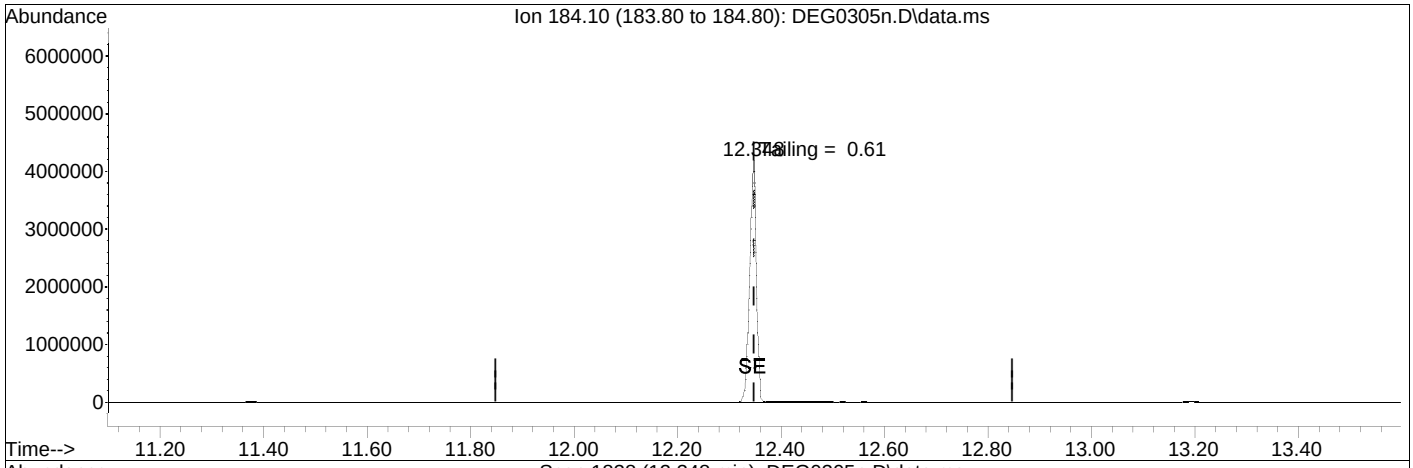
response 660379

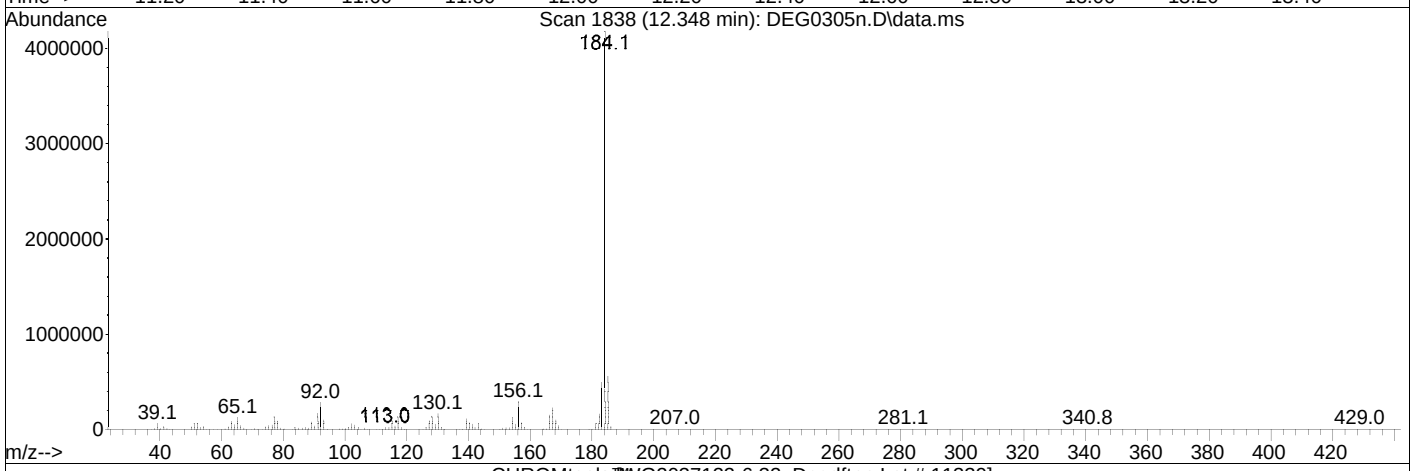
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250305NRVT\
Data File : DEG0305n.D
Acq On : 6 Mar 2025 12:25 am
Operator : SV106:imk
Sample : WG2037122-6,32,,Degdftpp Lot # 11339
Misc : WG2037122,,ical21604
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 06 00:45:17 2025
Quant Method : I:\8270\SV106\250305NRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools [WG2037122-6,32,,Degdftpp Lot # 11339]

(3) Benzidine (T)

12.348min (0.000) 348.36

response 3546374

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 05 14:14:08 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.372	152	64754	4.000	ug/ml		0.00
Standard Area 1 = 78779			Recovery = 82.20%				
27) IS2_1,4-Dichlorobenzen...	6.372	152	64754	4.000	ug/ml		0.00
Standard Area 3 = 75233			Recovery = 86.07%				
32) IS3_1,4-Dichlorobenzen...	6.372	152	64754	4.000	ug/ml		0.00
Standard Area 2 = 77182			Recovery = 83.90%				
35) IS1_Naphthalene-d8	7.807	136	249437	4.000	ug/ml	#	0.00
Standard Area 1 = 296328			Recovery = 84.18%				
55) IS2_Naphthalene-d8	7.807	136	249437	4.000	ug/ml	#	0.00
Standard Area 3 = 281912			Recovery = 88.48%				
63) IS1_Acenaphthene-d10	9.572	164	149360	4.000	ug/ml		0.00
Standard Area 1 = 172610			Recovery = 86.53%				
83) IS2_Acenaphthene-d10	9.572	164	149360	4.000	ug/ml		0.00
Standard Area 3 = 163577			Recovery = 91.31%				
86) IS3_Acenaphthene-d10	9.572	164	149360	4.000	ug/ml		0.00
Standard Area 2 = 165182			Recovery = 90.42%				
88) IS1_Phenanthrene-d10	11.007	188	292219	4.000	ug/ml	#	0.00
Standard Area 1 = 322082			Recovery = 90.73%				
100) IS3_Phenanthrene-d10	11.007	188	292219	4.000	ug/ml	#	0.00
Standard Area 2 = 325681			Recovery = 89.73%				
104) IS1_Chrysene-d12	13.642	240	290651	4.000	ug/ml		0.00
Standard Area 1 = 297393			Recovery = 97.73%				
113) IS1_Perylene-d12	15.106	264	309623	4.000	ug/ml		0.00
Standard Area 1 = 311018			Recovery = 99.55%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.413	112	18569	0.922	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.10%				
7) Phenol-d6	6.007	99	16439	0.678	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.90%				
19) Nitrobenzene-d5	7.036	82	16265	0.739	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.90%				
46) 2-Fluorobiphenyl	8.930	172	37676	0.653	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.30%				
79) 2,4,6-Tribromophenol	10.342	330	9030	1.069	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 53.45%				

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 05 14:14:08 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.595	244	52108	0.664	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 66.40%

Target Compounds					Qvalue
6) 2-Chlorophenol	0.000		0	N.D.	
8) Phenol	6.025	94	6525	0.259 ug/ml#	90
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.	
15) 2-Methylphenol	0.000		0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0	N.D. d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.	
20) Nitrobenzene	0.000		0	N.D.	
21) Isophorone	0.000		0	N.D.	
22) 2-Nitrophenol	0.000		0	N.D.	
23) 2,4-Dimethylphenol	0.000		0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.	
25) 2,4-Dichlorophenol	0.000		0	N.D.	
28) Benzaldehyde	0.000		0	N.D.	
29) Acetophenone	0.000		0	N.D.	
38) 4-Chloroaniline	0.000		0	N.D.	
40) p-Chloro-m-cresol	0.000		0	N.D.	
43) Hexachlorocyclopentadiene	0.000		0	N.D.	
44) 2,4,6-Trichlorophenol	0.000		0	N.D.	
45) 2,4,5-Trichlorophenol	0.000		0	N.D.	
48) 2-Nitroaniline	0.000		0	N.D.	
51) Dimethyl phthalate	0.000		0	N.D. d	
53) 2,6-Dinitrotoluene	0.000		0	N.D. d	
60) Caprolactam	0.000		0	N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
62) Biphenyl	0.000		0	N.D.	
64) 3-Nitroaniline	0.000		0	N.D.	
66) 2,4-Dinitrophenol	0.000		0	N.D.	
67) Dibenzofuran	0.000		0	N.D.	
68) 2,4-Dinitrotoluene	0.000		0	N.D. d	
69) 4-Nitrophenol	0.000		0	N.D. d	
72) Diethyl phthalate	0.000		0	N.D.	
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	
75) 4-Nitroaniline	0.000		0	N.D.	

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 05 14:14:08 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
77) NDPA/DPA	0.000		0		N.D.	
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

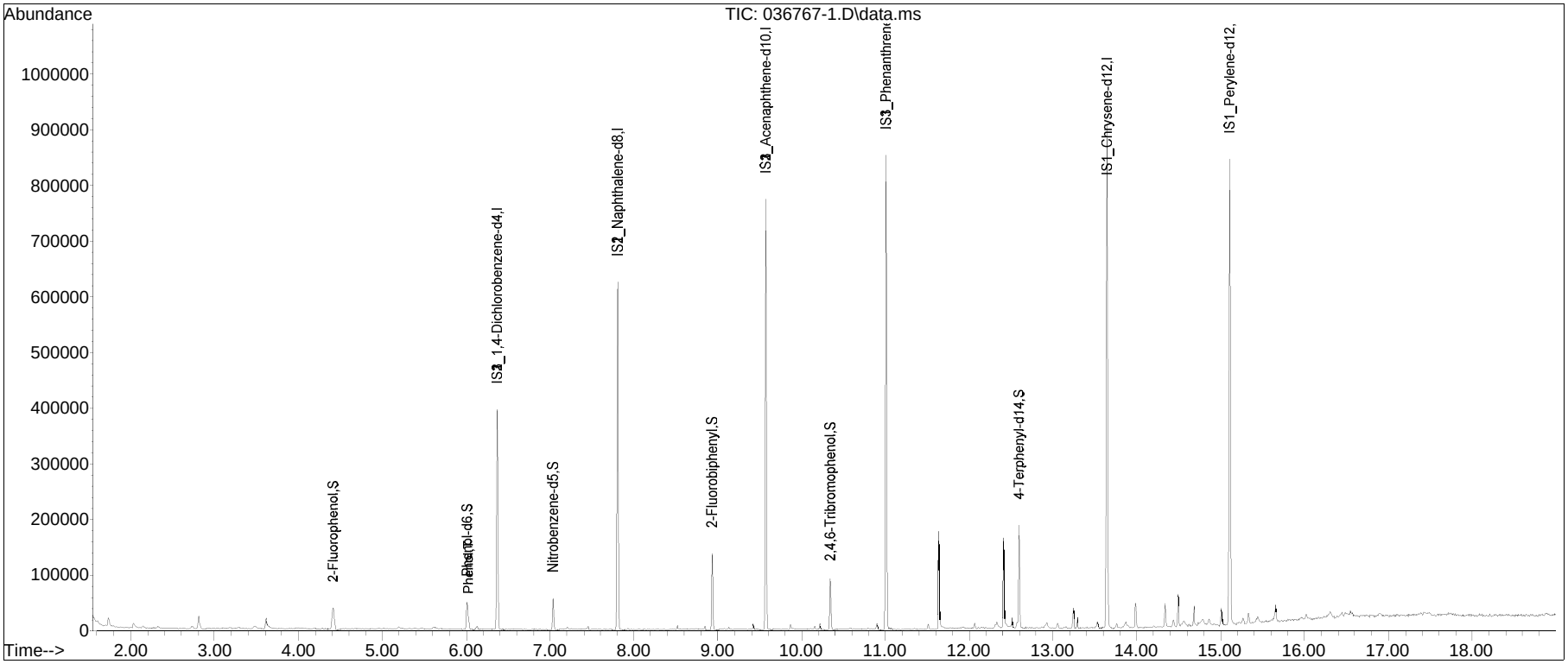
(#) = qualifier out of range (m) = manual integration (+) = signals summed

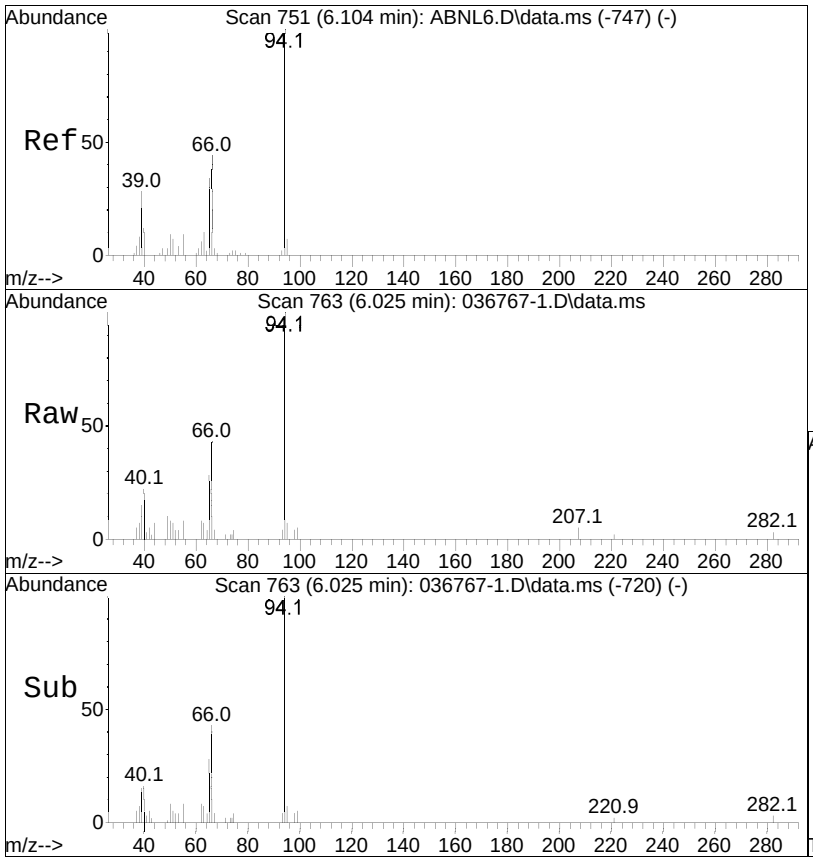
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 05 14:14:08 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90305.D•

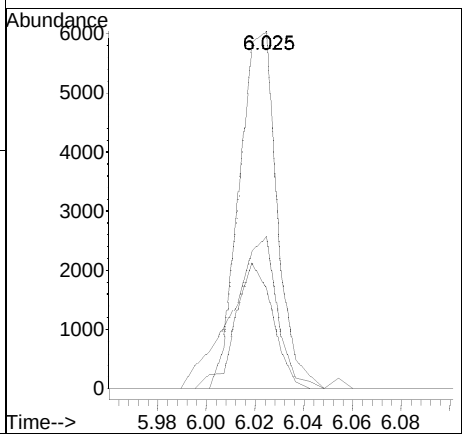




#8
Phenol
Concen: 0.26 ug/ml
RT: 6.025 min Scan# 763
Delta R.T. 0.003 min
Lab File: 036767-1.D
Acq: 5 Mar 2025 1:33 pm

Tgt Ion: 94 Resp: 6525

Ion	Ratio	Lower	Upper
94	100		
65	34.8	26.0	39.0
66	51.8	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV106\250305RVT\	QMethod	: FS241009SV106.m
Data File	: 036767-1.D	Operator	: SV106:smz
Date Inj'd	: 3/5/2025 1:33 pm	Instrument	: SV 106
Sample	: WG2036767-1,32,,gmr	Quant Date	: 3/5/2025 1:52 pm

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

LSC Area Percent Report

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 036767-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.031	82	84	95	rVB2	8348	15072	1.75%	0.267%
2	2.719	196	201	208	rBV6	4691	8824	1.02%	0.156%
3	2.801	208	215	224	rVV3	22505	40432	4.70%	0.715%
4	3.472	322	329	335	rBV5	4812	12280	1.43%	0.217%
5	3.607	347	352	368	rBV2	18792	45935	5.33%	0.812%
6	4.413	483	489	498	rVB	39062	70585	8.20%	1.248%
7	6.007	756	760	767	rBV2	49310	68878	8.00%	1.218%
8	6.372	818	822	827	rBV	395001	395357	45.92%	6.991%
9	7.036	932	935	941	rVB	56945	49945	5.80%	0.883%
10	7.807	1062	1066	1070	rBV	625283	527896	61.31%	9.335%
11	8.930	1254	1257	1261	rBV	136922	115658	13.43%	2.045%
12	9.419	1336	1340	1344	rBV	9691	9995	1.16%	0.177%
13	9.572	1362	1366	1370	rBV	773076	647163	75.16%	11.444%
14	9.866	1412	1416	1420	rBV4	8940	9332	1.08%	0.165%
15	10.219	1473	1476	1479	rVB3	9795	10248	1.19%	0.181%
16	10.336	1493	1496	1502	rVB	91662	82876	9.63%	1.465%
17	10.901	1588	1592	1598	rVB2	10330	13521	1.57%	0.239%
18	11.007	1606	1610	1614	rBV	852482	731437	84.95%	12.934%
19	11.507	1691	1695	1701	rBV2	9923	10909	1.27%	0.193%
20	11.636	1714	1717	1723	rBV	174284	153216	17.79%	2.709%
21	12.065	1787	1790	1794	rVB	10142	9644	1.12%	0.171%
22	12.324	1832	1834	1842	rVB7	10543	14784	1.72%	0.261%
23	12.407	1845	1848	1858	rVV	160606	155298	18.04%	2.746%
24	12.507	1863	1865	1871	rVB4	18575	17965	2.09%	0.318%
25	12.571	1871	1876	1877	rBV2	10999	12321	1.43%	0.218%
26	12.595	1877	1880	1883	rVB	182795	152274	17.68%	2.693%
27	12.930	1931	1937	1944	rVB7	9454	17553	2.04%	0.310%
28	13.054	1953	1958	1963	rVB3	8880	11049	1.28%	0.195%

LSC Area Percent Report

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Title : Semivolatiles by GC/MS by modified 8270

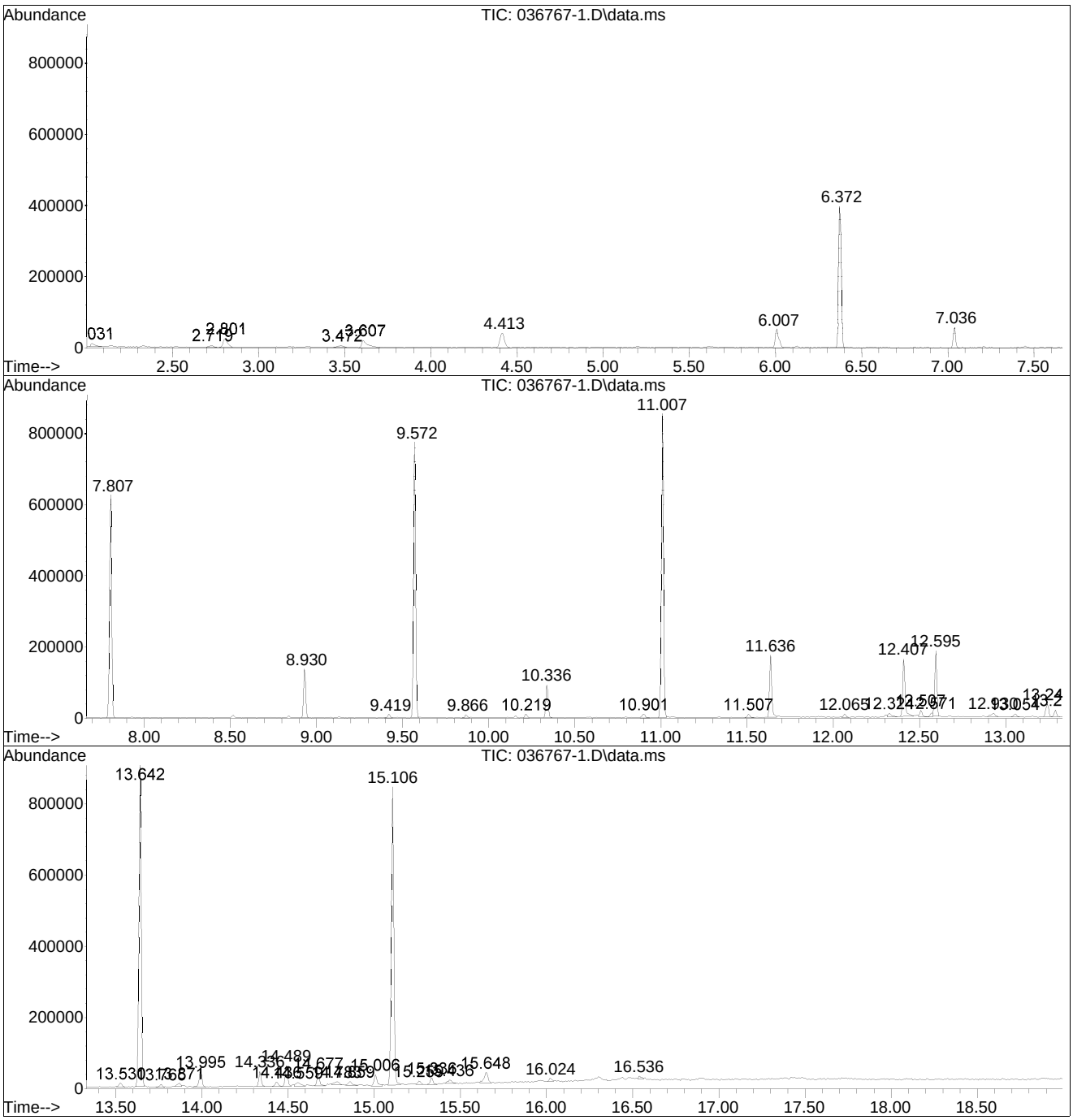
29	13.242	1986	1990	1993	rBV3	34874	41192	4.78%	0.728%
30	13.289	1993	1998	2003	rVB	19198	17912	2.08%	0.317%
31	13.530	2035	2039	2043	rVB5	11303	15647	1.82%	0.277%
32	13.642	2053	2058	2062	rBV	902549	854241	99.21%	15.105%
33	13.765	2073	2079	2082	rBV6	8509	10901	1.27%	0.193%
34	13.871	2092	2097	2099	rBV5	9217	13304	1.55%	0.235%
35	13.995	2110	2118	2123	rVB2	43854	56316	6.54%	0.996%
36	14.336	2173	2176	2185	rVB	41616	39904	4.63%	0.706%
37	14.436	2188	2193	2198	rBV3	12687	17638	2.05%	0.312%
38	14.489	2198	2202	2207	rBV	57973	63384	7.36%	1.121%
39	14.559	2210	2214	2221	rVB9	10280	22042	2.56%	0.390%
40	14.677	2230	2234	2241	rVB	35552	37303	4.33%	0.660%
41	14.783	2247	2252	2258	rVB8	8662	17872	2.08%	0.316%
42	14.859	2261	2265	2273	rVB5	10656	16006	1.86%	0.283%
43	15.006	2286	2290	2297	rBV2	32345	44731	5.19%	0.791%
44	15.106	2302	2307	2315	rVV	836742	861042	100.00%	15.226%
45	15.259	2330	2333	2338	rVB5	9844	12017	1.40%	0.212%
46	15.336	2341	2346	2351	rBV	18360	22504	2.61%	0.398%
47	15.436	2359	2363	2370	rVB8	9423	16183	1.88%	0.286%
48	15.648	2393	2399	2405	rVB6	28820	46291	5.38%	0.819%
49	16.024	2460	2463	2466	rBV5	8126	9348	1.09%	0.165%
50	16.536	2549	2550	2555	rBV5	7295	8995	1.04%	0.159%

Sum of corrected areas: 5655220

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

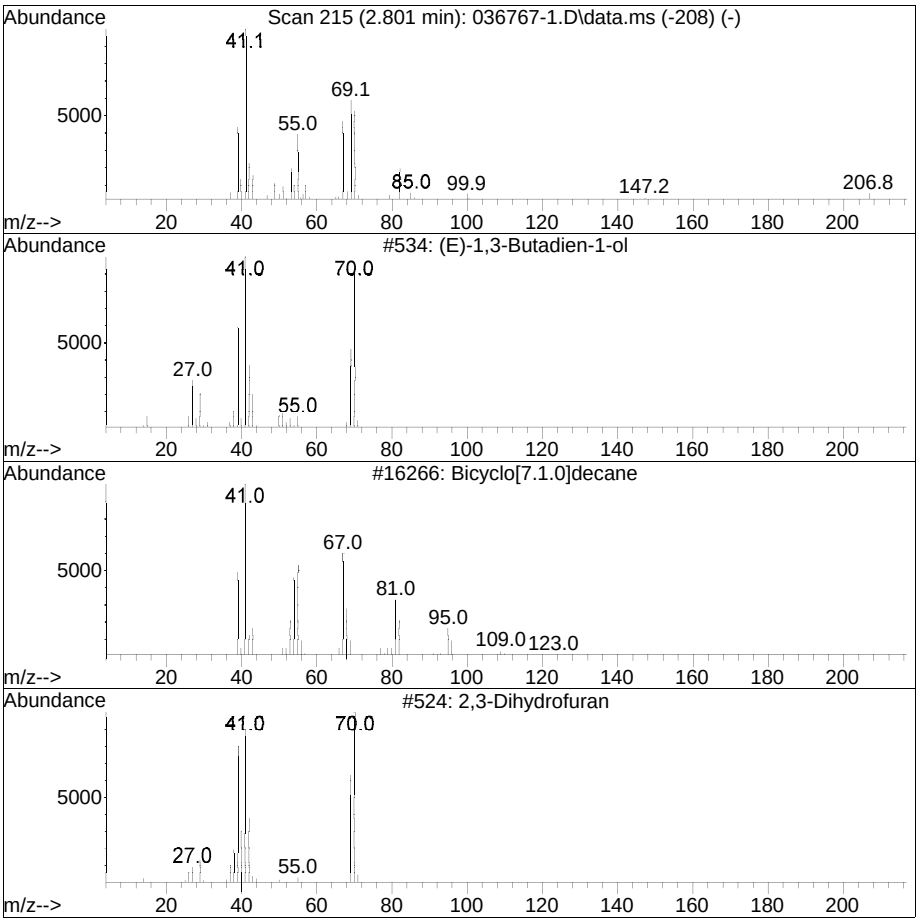
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

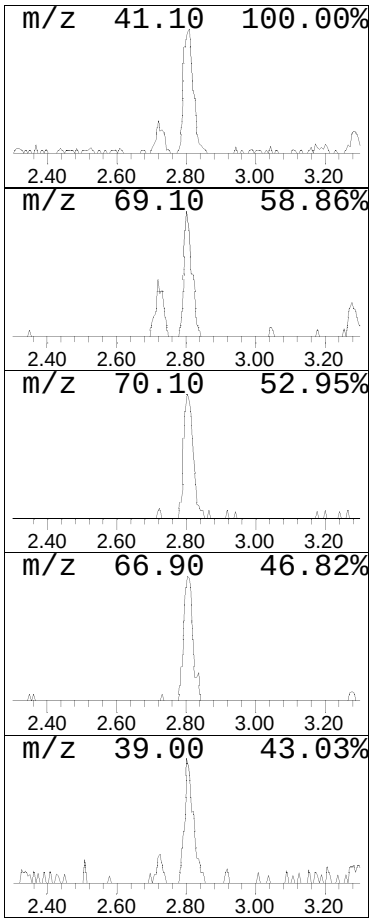
****

Peak Number 1 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.801	0.41 ug/ml	40432	IS2_1,4-Dichlorobenzene-d4	6.372

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-1,3-Butadien-1-ol	70	C4H6O	070411-98-2	38
2	Bicyclo[7.1.0]decane	138	C10H18	000286-76-0	38
3	2,3-Dihydrofuran	70	C4H6O	001191-99-7	35
4	3-Penten-1-ol, 2-methyl-	100	C6H12O	062238-37-3	32
5	1-Pentene, 5-chloro-4-(chloromet...	152	C6H10Cl2	027990-74-5	28





Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

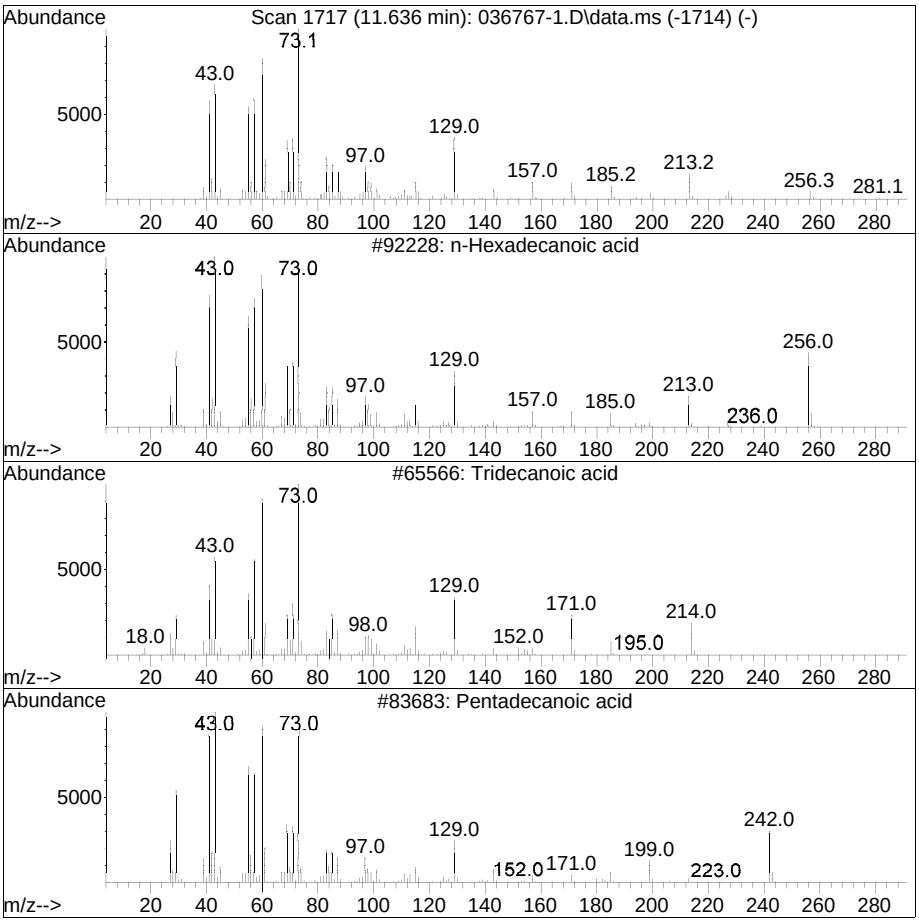
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

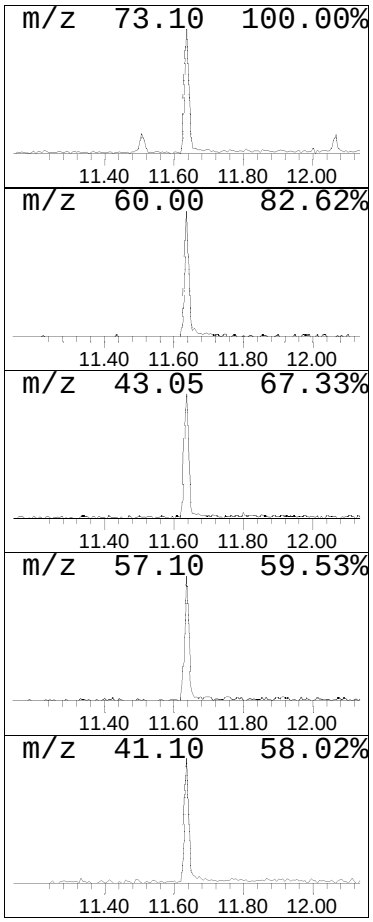
****

Peak Number 3 Unknown Organic Acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.636	0.84 ug/ml	153216	IS3_Phenanthrene-d10	11.007

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	92
2	Tridecanoic acid	214	C13H26O2	000638-53-9	74
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	72
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Methyl-.alpha.-d-ribofuranoside	164	C6H12O5	1000129-83-1	43





Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

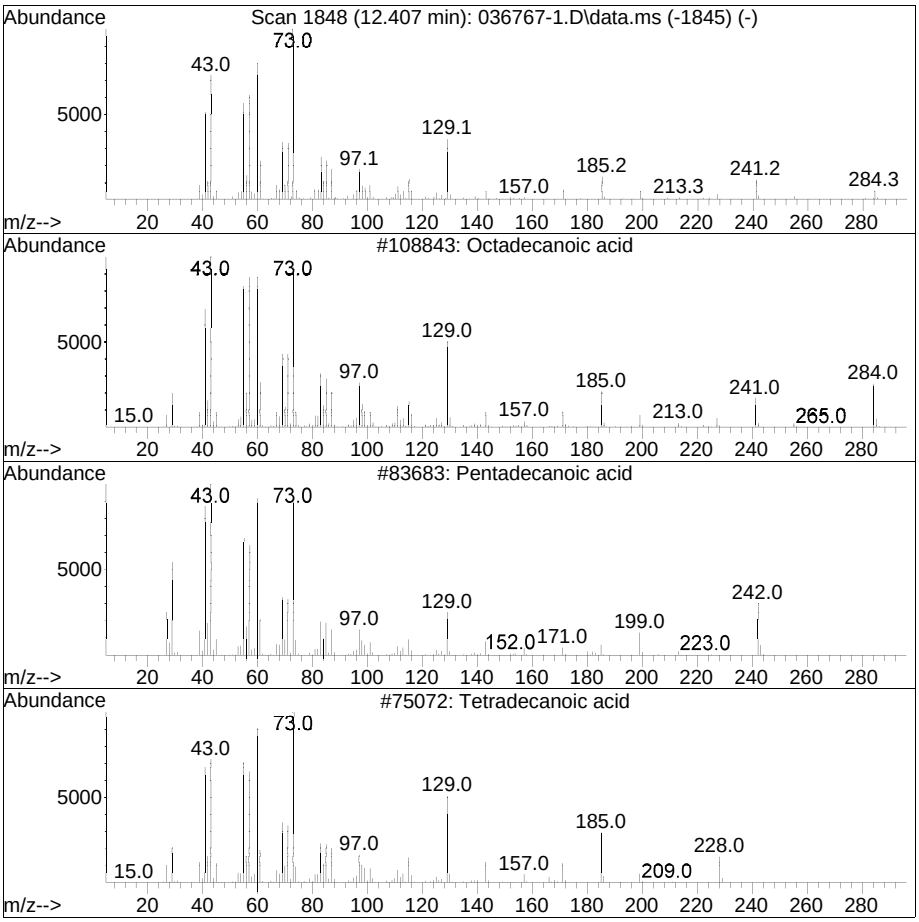
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

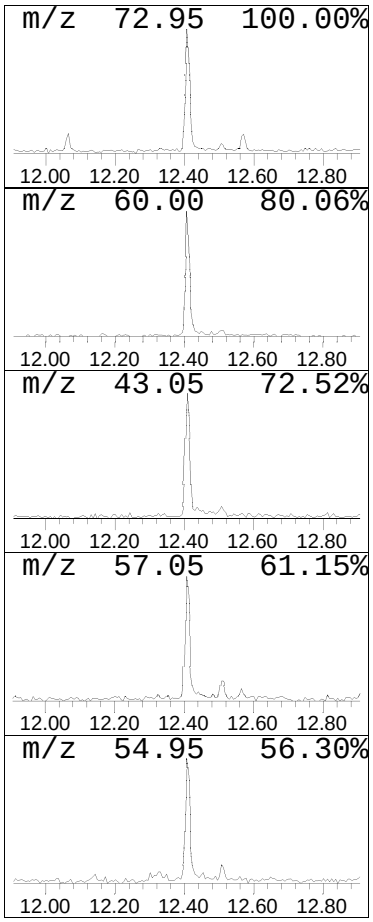
****

Peak Number 4 Unknown Organic Acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.407	0.73 ug/ml	155298	IS1_Chrysene-d12	13.642

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	86
4	Tridecanoic acid	214	C13H26O2	000638-53-9	78
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	78





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-1.D
Acq On : 5 Mar 2025 1:33 pm
Operator : SV106:smz
Sample : WG2036767-1,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	2.801	0.4	ug/ml	40432	1	6.372	395357	4.0
Unknown Organic...	11.636	0.8	ug/ml	153216	11	11.007	731437	4.0
Unknown Organic...	12.407	0.7	ug/ml	155298	12	13.642	854241	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-2.D
Acq On : 5 Mar 2025 1:56 pm
Operator : SV106:smz
Sample : WG2036767-2,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 14:48:59 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.372	152	58621	4.000	ug/ml		0.00
Standard Area 1 = 78779			Recovery = 74.41%				
27) IS2_1,4-Dichlorobenzen...	6.372	152	58621	4.000	ug/ml		0.00
Standard Area 3 = 75233			Recovery = 77.92%				
32) IS3_1,4-Dichlorobenzen...	6.372	152	58621	4.000	ug/ml		0.00
Standard Area 2 = 77182			Recovery = 75.95%				
35) IS1_Naphthalene-d8	7.807	136	228443	4.000	ug/ml	#	0.00
Standard Area 1 = 296328			Recovery = 77.09%				
55) IS2_Naphthalene-d8	7.807	136	228443	4.000	ug/ml	#	0.00
Standard Area 3 = 281912			Recovery = 81.03%				
63) IS1_Acenaphthene-d10	9.572	164	136192	4.000	ug/ml		0.00
Standard Area 1 = 172610			Recovery = 78.90%				
83) IS2_Acenaphthene-d10	9.572	164	136192	4.000	ug/ml		0.00
Standard Area 3 = 163577			Recovery = 83.26%				
86) IS3_Acenaphthene-d10	9.572	164	136192	4.000	ug/ml		0.00
Standard Area 2 = 165182			Recovery = 82.45%				
88) IS1_Phenanthrene-d10	11.007	188	267452	4.000	ug/ml	#	0.00
Standard Area 1 = 322082			Recovery = 83.04%				
100) IS3_Phenanthrene-d10	11.007	188	267452	4.000	ug/ml	#	0.00
Standard Area 2 = 325681			Recovery = 82.12%				
104) IS1_Chrysene-d12	13.642	240	262275	4.000	ug/ml		0.00
Standard Area 1 = 297393			Recovery = 88.19%				
113) IS1_Perylene-d12	15.107	264	289749	4.000	ug/ml		0.00
Standard Area 1 = 311018			Recovery = 93.16%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.413	112	18233	1.000	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.00%				
7) Phenol-d6	6.007	99	15779	0.719	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 35.95%				
19) Nitrobenzene-d5	7.036	82	17593	0.883	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 88.30%				
46) 2-Fluorobiphenyl	8.930	172	34412	0.651	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.10%				
79) 2,4,6-Tribromophenol	10.342	330	10287	1.335	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 66.75%				

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-2.D
Acq On : 5 Mar 2025 1:56 pm
Operator : SV106:smz
Sample : WG2036767-2,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 14:48:59 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.595	244	48941	0.682	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.20%			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.107	128	29085	1.454	ug/ml	95
8) Phenol	6.019	94	21482	0.943	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.772	45	39299	1.332	ug/ml#	42
15) 2-Methylphenol	6.760	108	25311	1.538	ug/ml	99
17) n-Nitrosodi-n-propylamine	6.913	70	24015	1.743	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.948	108	25831	1.439	ug/ml#	98
20) Nitrobenzene	7.054	77	34358	1.688	ug/ml	93
21) Isophorone	7.342	82	61105	1.726	ug/ml	94
22) 2-Nitrophenol	7.419	139	16792	1.608	ug/ml#	89
23) 2,4-Dimethylphenol	7.519	107	31997	1.952	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.613	93	38482	1.627	ug/ml	98
25) 2,4-Dichlorophenol	7.683	162	26550	1.449	ug/ml	94
28) Benzaldehyde	5.795	105	27144	1.955	ug/ml	100
29) Acetophenone	6.878	105	48708	1.818	ug/ml#	81
38) 4-Chloroaniline	7.913	65	11850M3	1.638	ug/ml	
40) p-Chloro-m-cresol	8.442	107	27202	1.608	ug/ml	96
43) Hexachlorocyclopentadiene	8.725	237	26015	1.739	ug/ml	94
44) 2,4,6-Trichlorophenol	8.848	196	21945	1.396	ug/ml	96
45) 2,4,5-Trichlorophenol	8.872	196	22752	1.398	ug/ml	94
48) 2-Nitroaniline	9.142	138	18895	1.482	ug/ml	94
51) Dimethyl phthalate	9.348	163	75967	1.454	ug/ml#	97
53) 2,6-Dinitrotoluene	9.389	165	15550	1.464	ug/ml#	85
60) Caprolactam	8.230	55	4965	0.593	ug/ml#	72
61) 1,2,4,5-Tetrachloroben...	8.719	216	36031	1.570	ug/ml	99
62) Biphenyl	9.025	154	81876	1.581	ug/ml	100
64) 3-Nitroaniline	9.542	138	16334	1.485	ug/ml	96
66) 2,4-Dinitrophenol	9.648	184	5820	1.864	ug/ml	93
67) Dibenzofuran	9.772	168	97384	1.528	ug/ml	99
68) 2,4-Dinitrotoluene	9.777	165	22275	1.561	ug/ml	96
69) 4-Nitrophenol	9.736	65	8403	1.033	ug/ml#	83
72) Diethyl phthalate	10.042	149	79600	1.540	ug/ml	98
74) 4-Chlorophenyl phenyl ...	10.124	204	38070	1.490	ug/ml	90
75) 4-Nitroaniline	10.130	138	16160	1.444	ug/ml#	90

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-2.D
Acq On : 5 Mar 2025 1:56 pm
Operator : SV106:smz
Sample : WG2036767-2,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 14:48:59 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	10.172	198	11223	1.425	ug/ml#	70
77) NDPA/DPA	10.242	169	63614	1.481	ug/ml	93
80) 4-Bromophenyl phenyl e...	10.601	248	22892	1.446	ug/ml#	88
87) Atrazine	10.783	200	20521	1.452	ug/ml	93
91) Carbazole	11.248	167	105680	1.500	ug/ml	98
92) Di-n-butylphthalate	11.648	149	126358	1.433	ug/ml	98
97) Butyl benzyl phthalate	13.124	149	58410	1.575	ug/ml	92
106) 3,3'-Dichlorobenzidine	13.636	252	41313	1.391	ug/ml	96
108) Bis(2-ethylhexyl)phtha...	13.765	149	89017	1.640	ug/ml#	94
109) Di-n-octylphthalate	14.442	149	140466	1.560	ug/ml#	72

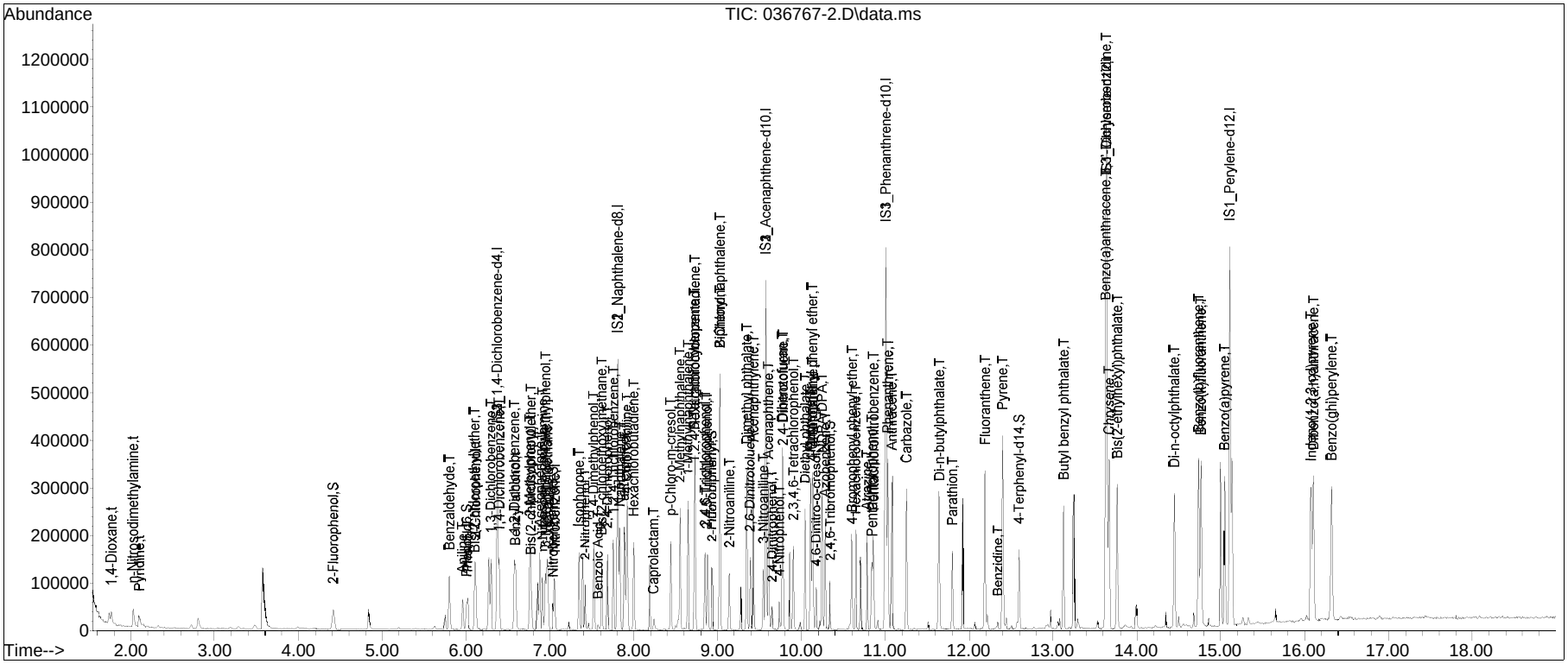
(#) = qualifier out of range (m) = manual integration (+) = signals summed

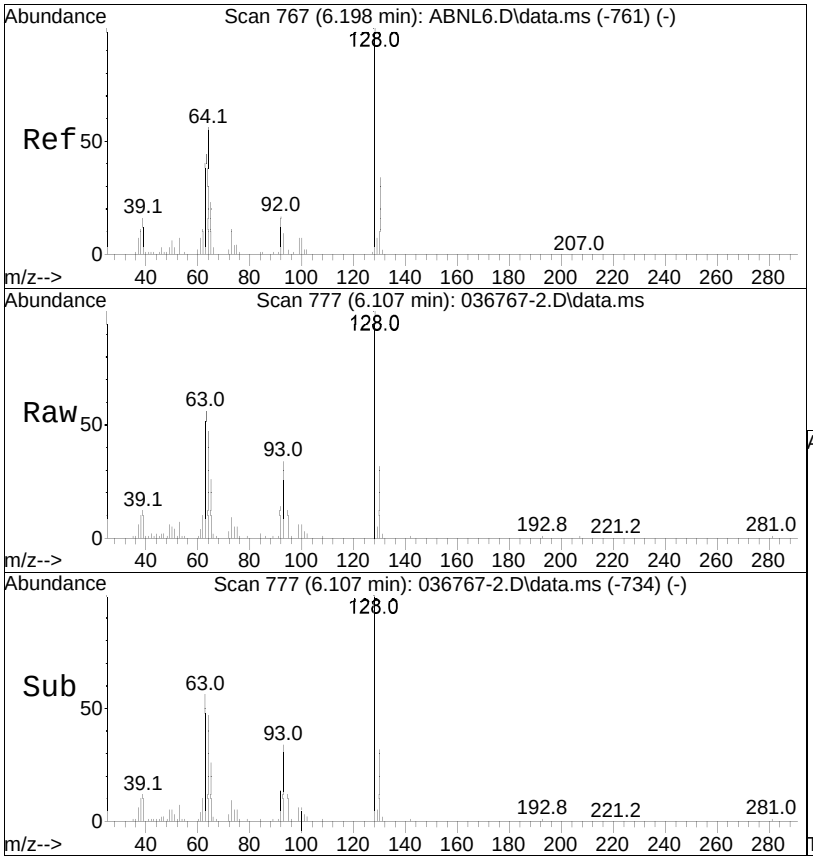
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-2.D
Acq On : 5 Mar 2025 1:56 pm
Operator : SV106:smz
Sample : WG2036767-2,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 14:48:59 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90305.D•

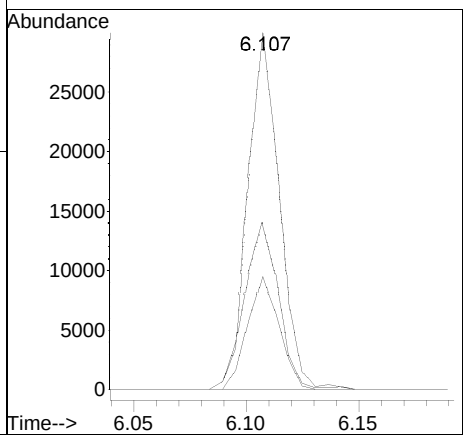


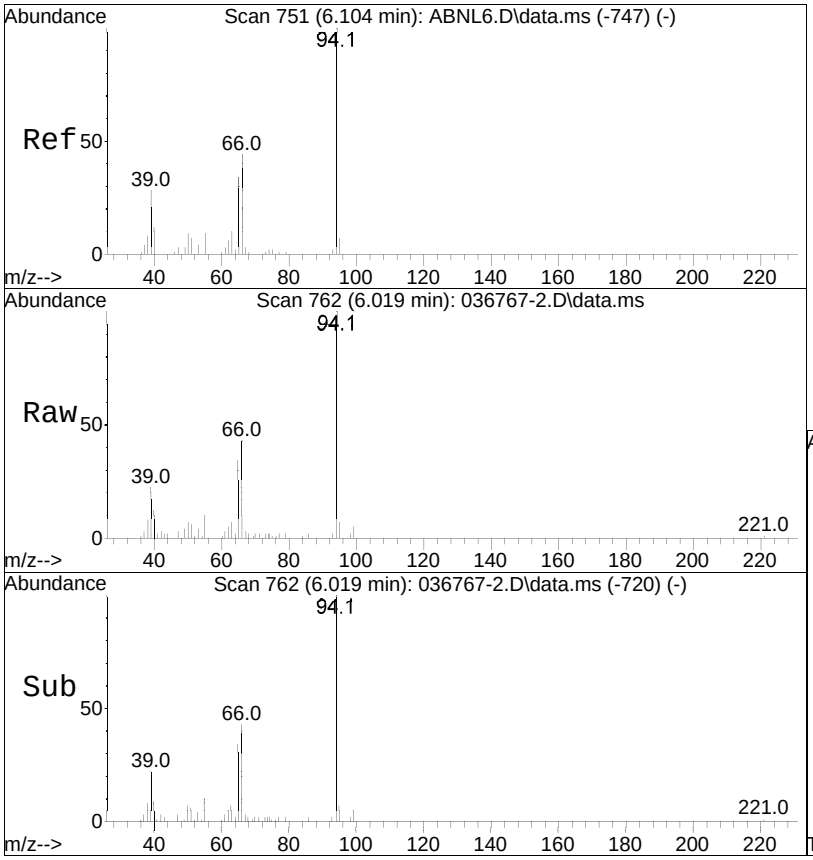


#6
2-Chlorophenol
Concen: 1.45 ug/ml
RT: 6.107 min Scan# 777
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:128 Resp: 29085

Ion	Ratio	Lower	Upper
128	100		
64	50.9	45.1	67.7
130	32.1	26.2	39.4

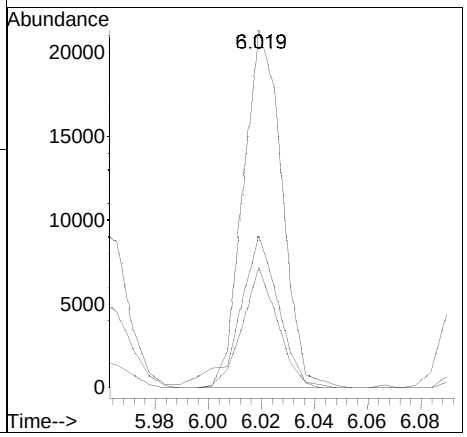


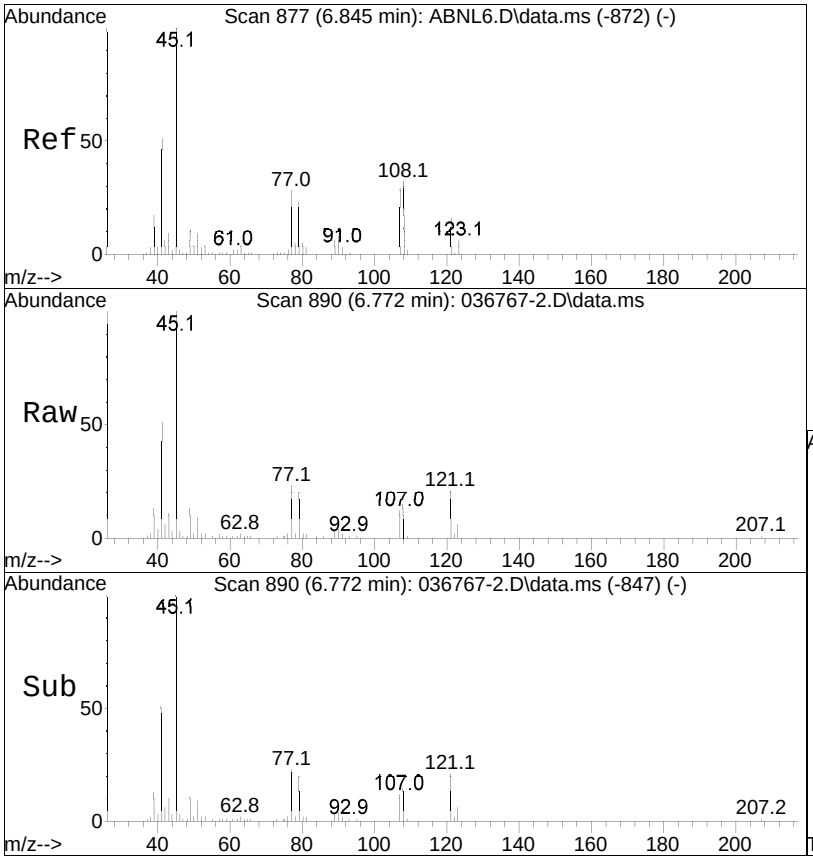


#8
Phenol
Concen: 0.94 ug/ml
RT: 6.019 min Scan# 762
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 94 Resp: 21482

Ion	Ratio	Lower	Upper
94	100		
65	30.7	26.0	39.0
66	43.4	33.8	50.8

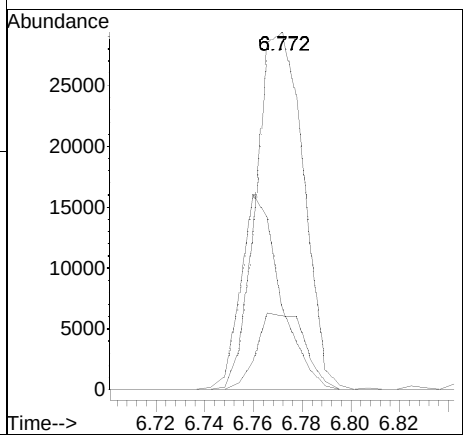


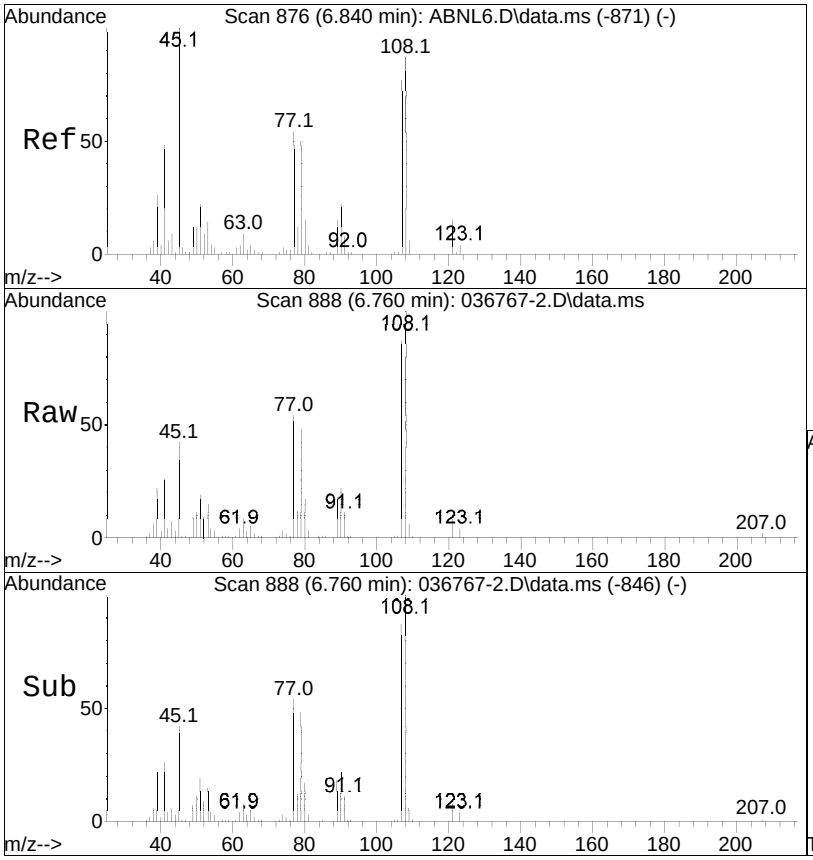


#14
Bis(2-chloroisopropyl)ether
Concen: 1.33 ug/ml
RT: 6.772 min Scan# 890
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 45 Resp: 39299

Ion	Ratio	Lower	Upper
45	100		
121	22.0	9.8	14.6#
77	46.0	6.1	9.1#

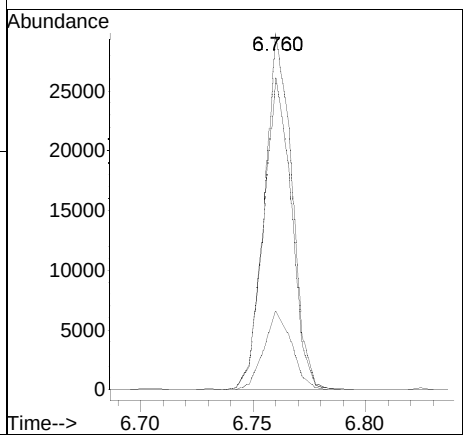


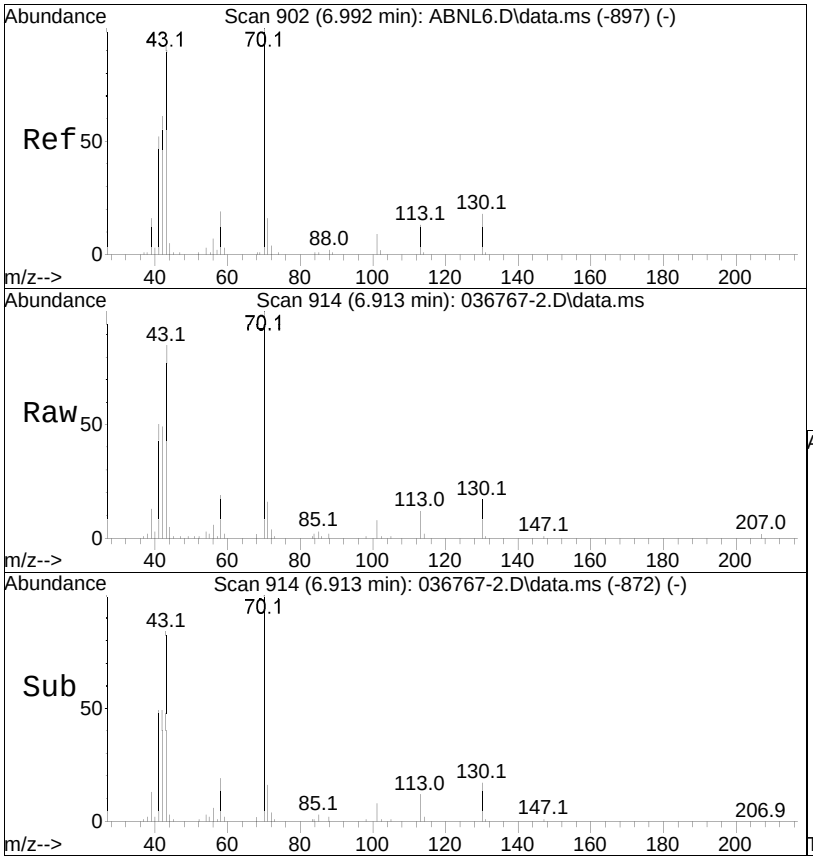


#15
2-Methylphenol
Concen: 1.54 ug/ml
RT: 6.760 min Scan# 888
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:108 Resp: 25311

Ion	Ratio	Lower	Upper
108	100		
107	89.2	70.7	106.1
90	22.3	18.7	28.1

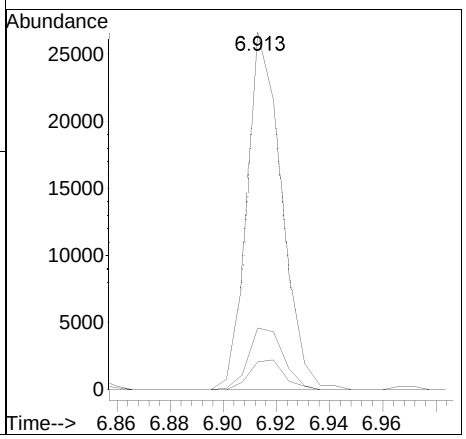


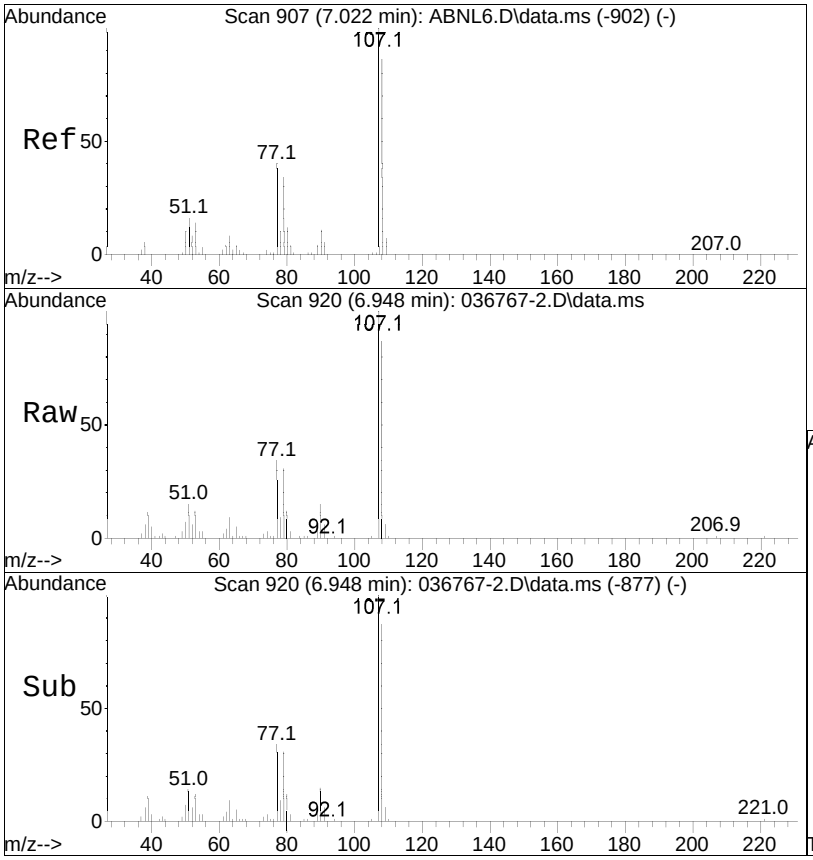


#17
n-Nitrosodi-n-propylamine
Concen: 1.74 ug/ml
RT: 6.913 min Scan# 914
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 70 Resp: 24015

Ion	Ratio	Lower	Upper
70	100		
130	17.4	18.2	27.4#
101	8.4	7.8	11.8

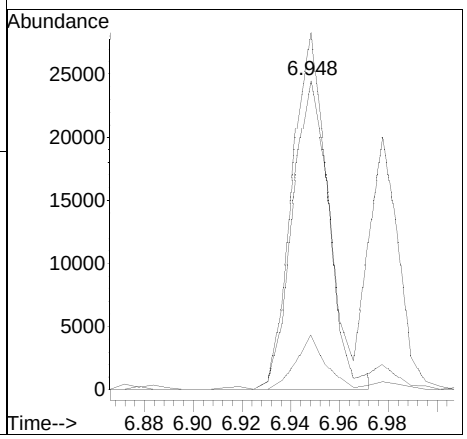


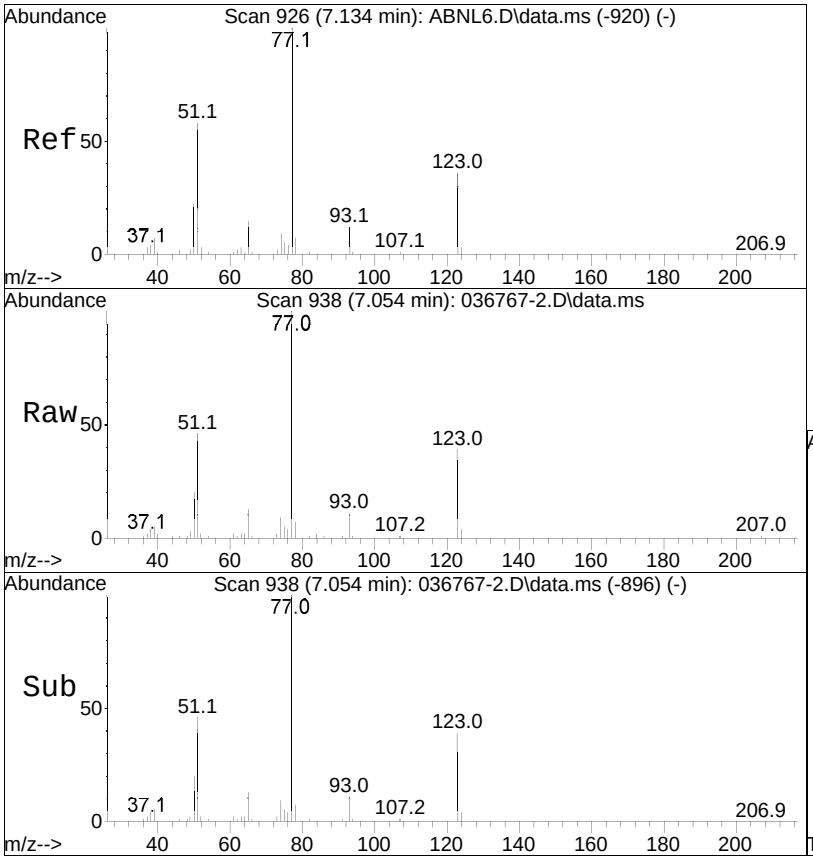


#18
3-Methylphenol/4-Methylphenol
Concen: 1.44 ug/ml
RT: 6.948 min Scan# 920
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:108 Resp: 25831

Ion	Ratio	Lower	Upper
108	100		
107	112.1	88.6	132.8
90	14.5	8.8	13.2#

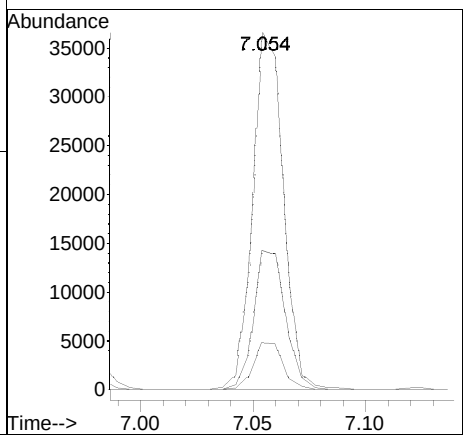


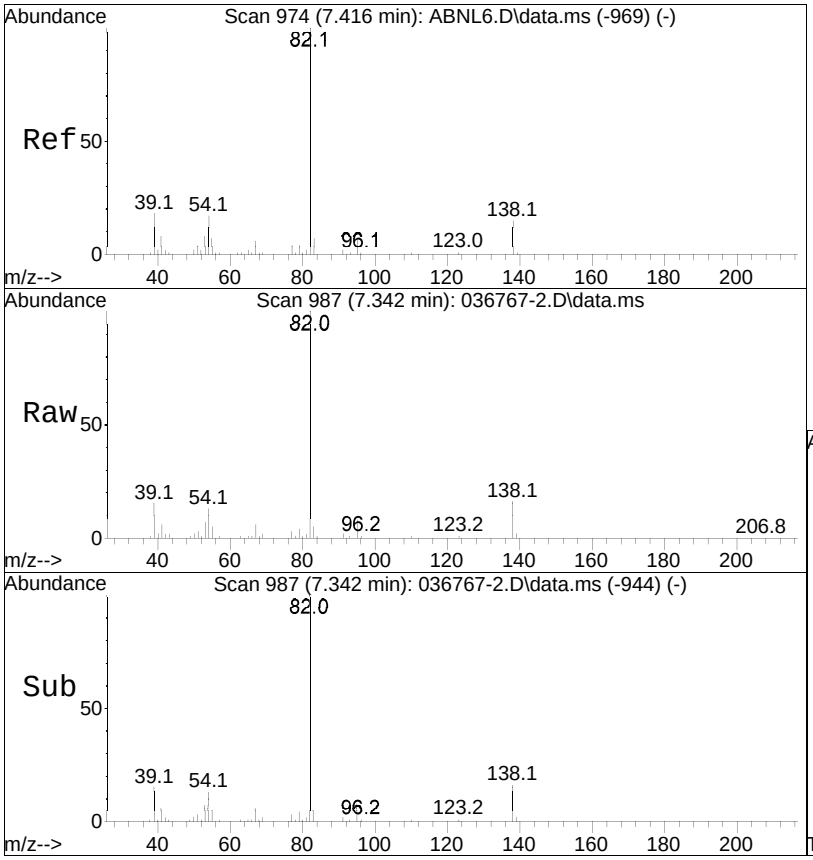


#20
Nitrobenzene
Concen: 1.69 ug/ml
RT: 7.054 min Scan# 938
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 77 Resp: 34358

Ion	Ratio	Lower	Upper
77	100		
123	40.4	36.3	54.5
65	12.8	11.6	17.4

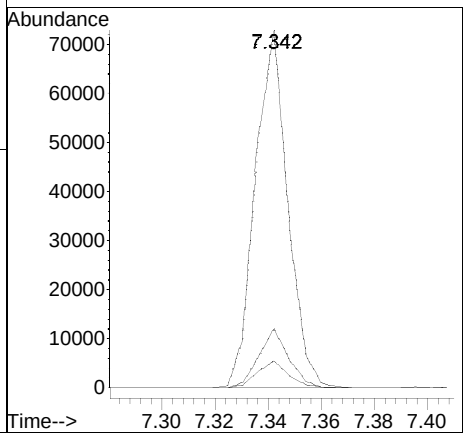


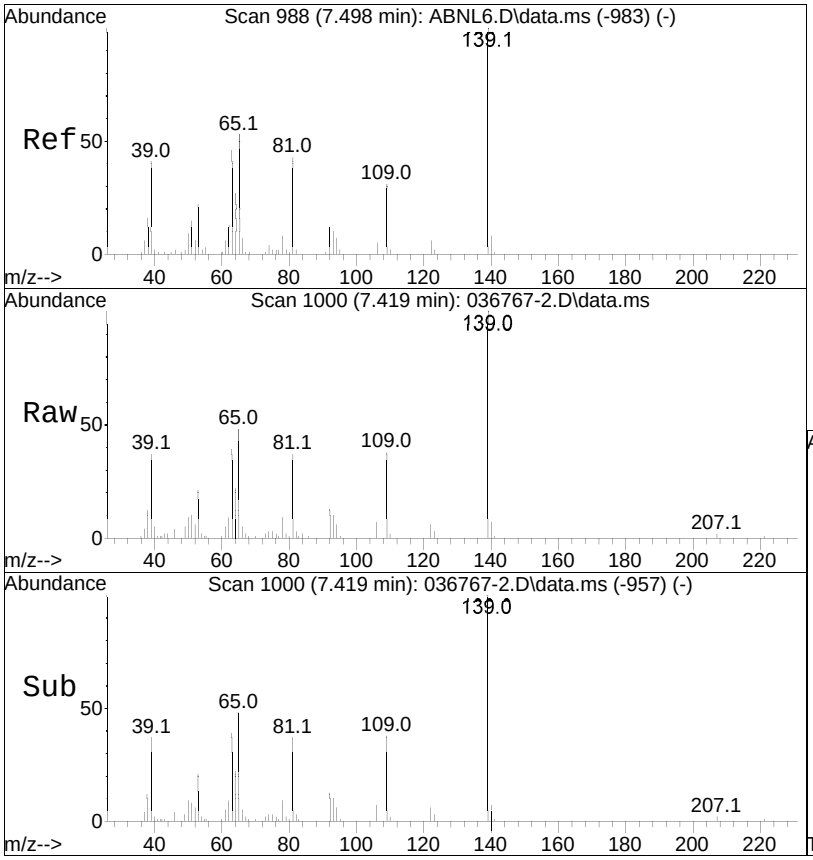


#21
Isophorone
Concen: 1.73 ug/ml
RT: 7.342 min Scan# 987
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 82 Resp: 61105

Ion	Ratio	Lower	Upper
82	100		
138	15.4	14.7	22.1
95	7.4	5.2	7.8

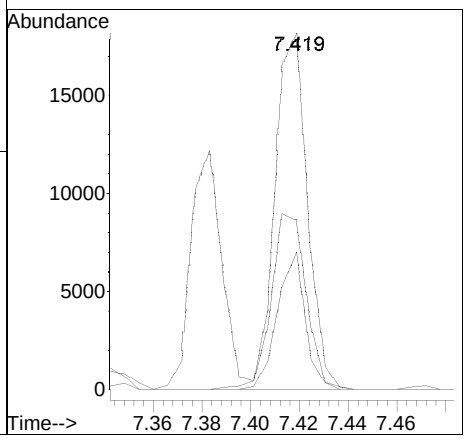


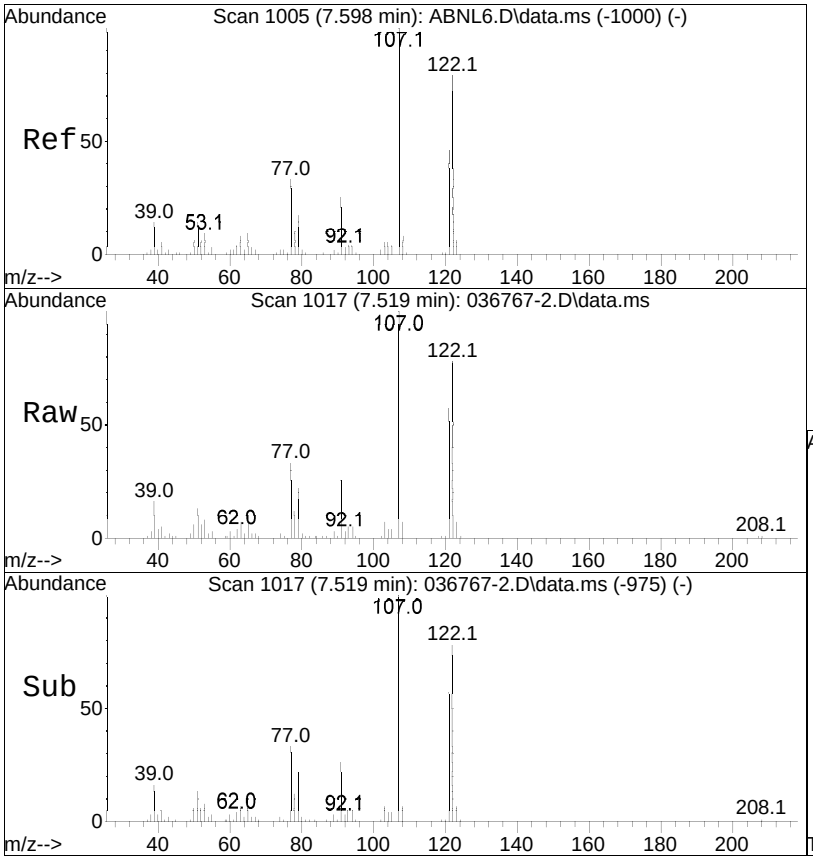


#22
2-Nitrophenol
Concen: 1.61 ug/ml
RT: 7.419 min Scan# 1000
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:139 Resp: 16792

Ion	Ratio	Lower	Upper
139	100		
109	33.0	19.4	29.0#
65	51.4	46.1	69.1

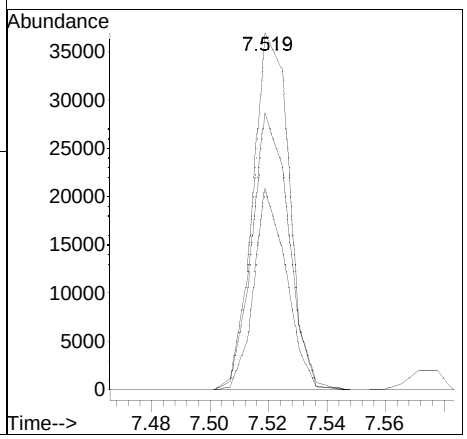


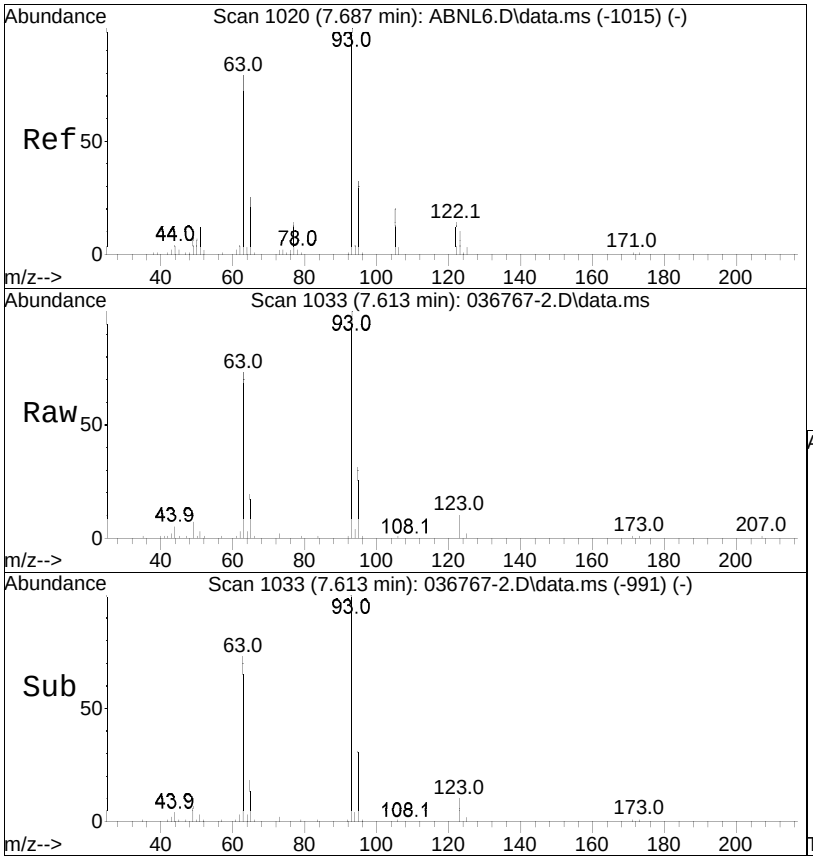


#23
2,4-Dimethylphenol
Concen: 1.95 ug/ml
RT: 7.519 min Scan# 1017
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:107 Resp: 31997

Ion	Ratio	Lower	Upper
107	100		
121	50.7	40.0	60.0
122	77.4	70.2	105.4

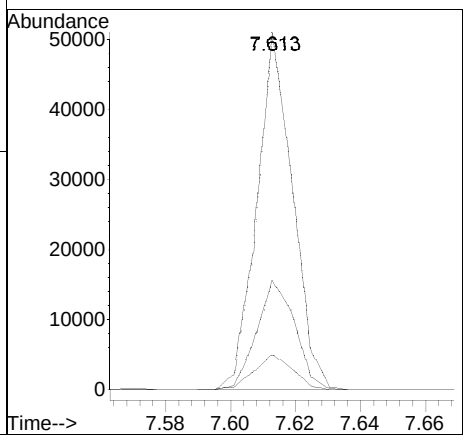


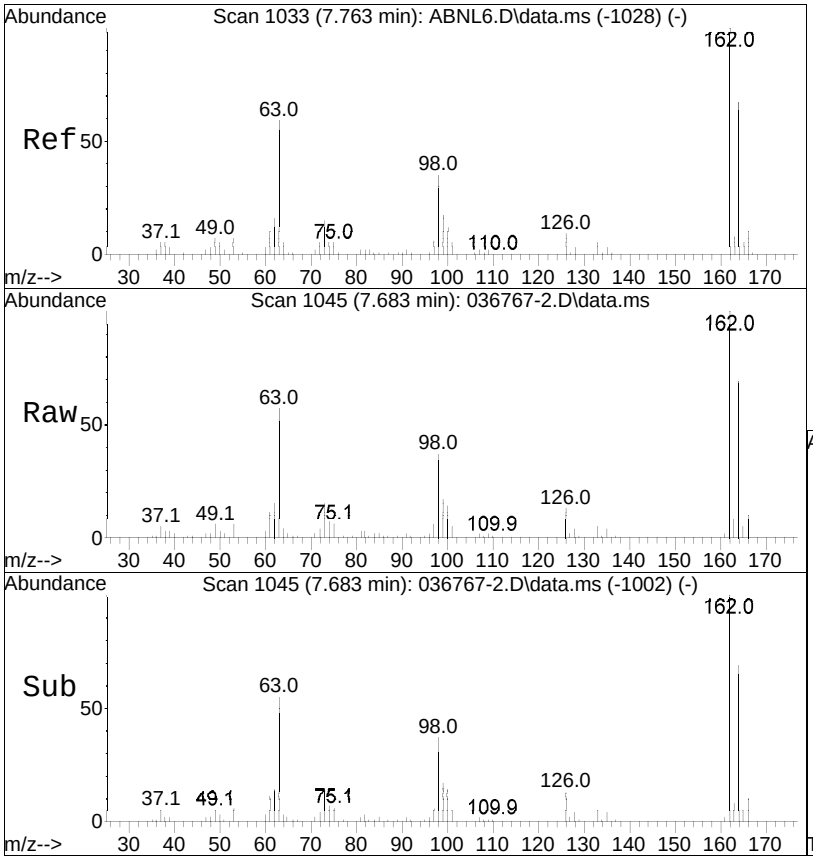


#24
Bis(2-chloroethoxy)methane
Concen: 1.63 ug/ml
RT: 7.613 min Scan# 1033
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 93 Resp: 38482

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.8	38.8
123	11.0	10.1	15.1

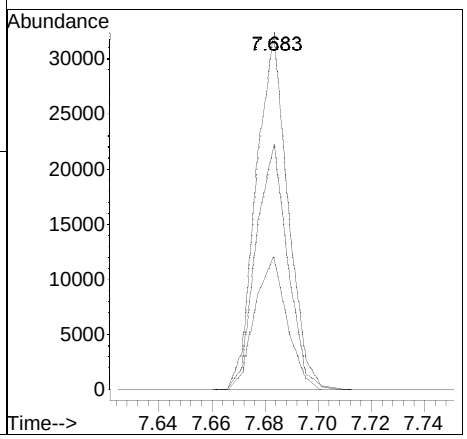


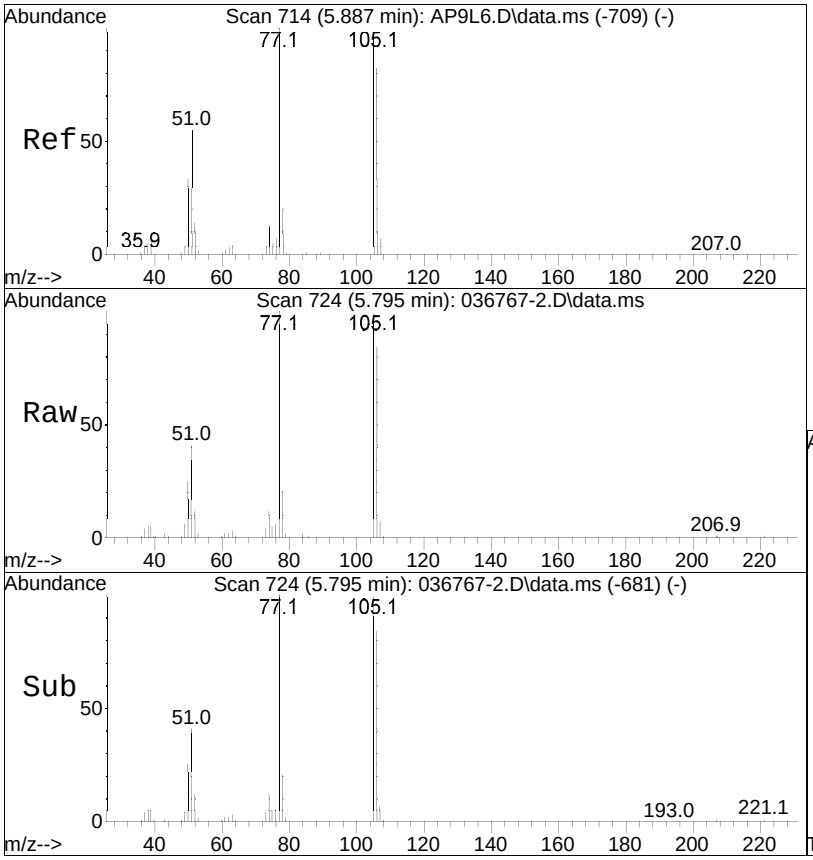


#25
2,4-Dichlorophenol
Concen: 1.45 ug/ml
RT: 7.683 min Scan# 1045
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:162 Resp: 26550

Ion	Ratio	Lower	Upper
162	100		
164	69.1	51.0	76.4
98	37.9	32.2	48.2

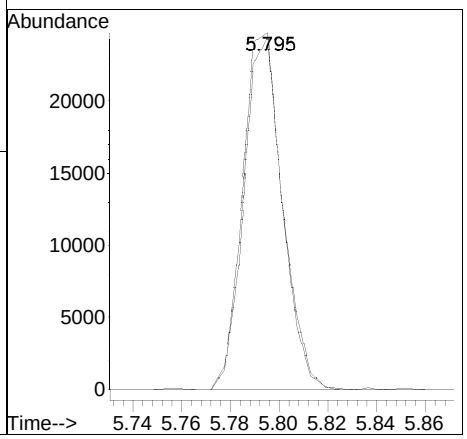


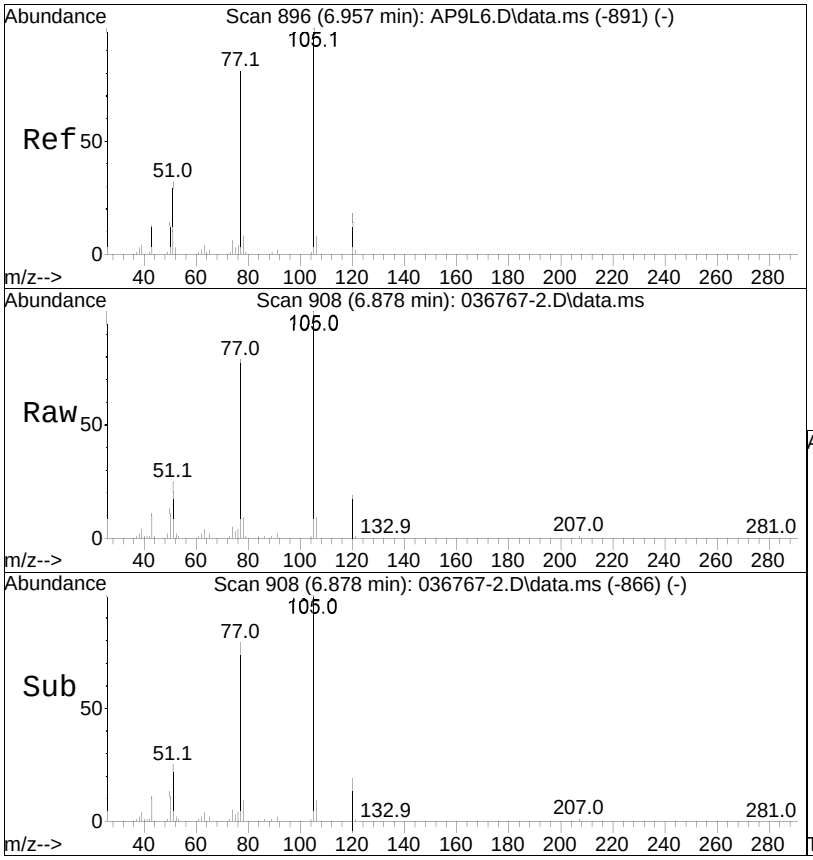


#28
Benzaldehyde
Concen: 1.95 ug/ml
RT: 5.795 min Scan# 724
Delta R.T. 0.006 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:105 Resp: 27144

Ion	Ratio	Lower	Upper
105	100		
77	102.4	82.2	123.4

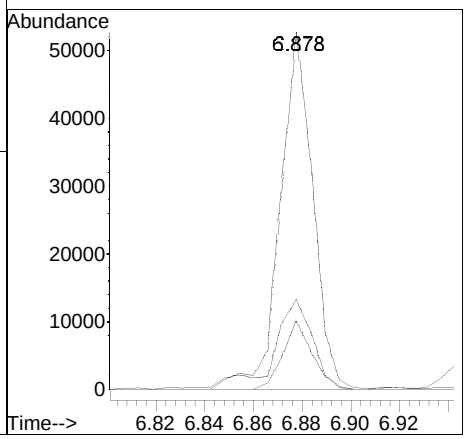


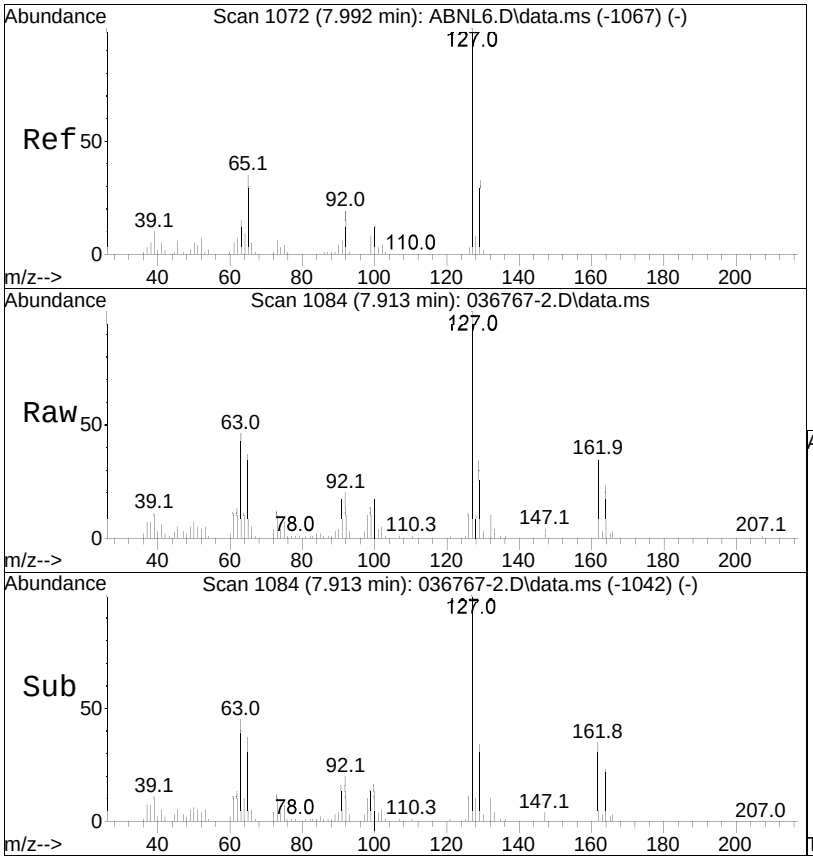


#29
Acetophenone
Concen: 1.82 ug/ml
RT: 6.878 min Scan# 908
Delta R.T. -0.000 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:105 Resp: 48708

Ion	Ratio	Lower	Upper
105	100		
120	17.3	20.5	30.7#
51	30.8	34.9	52.3#

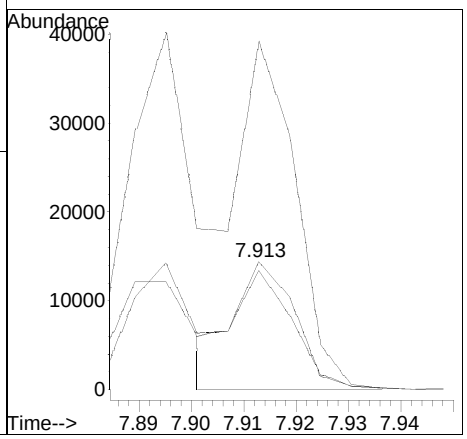


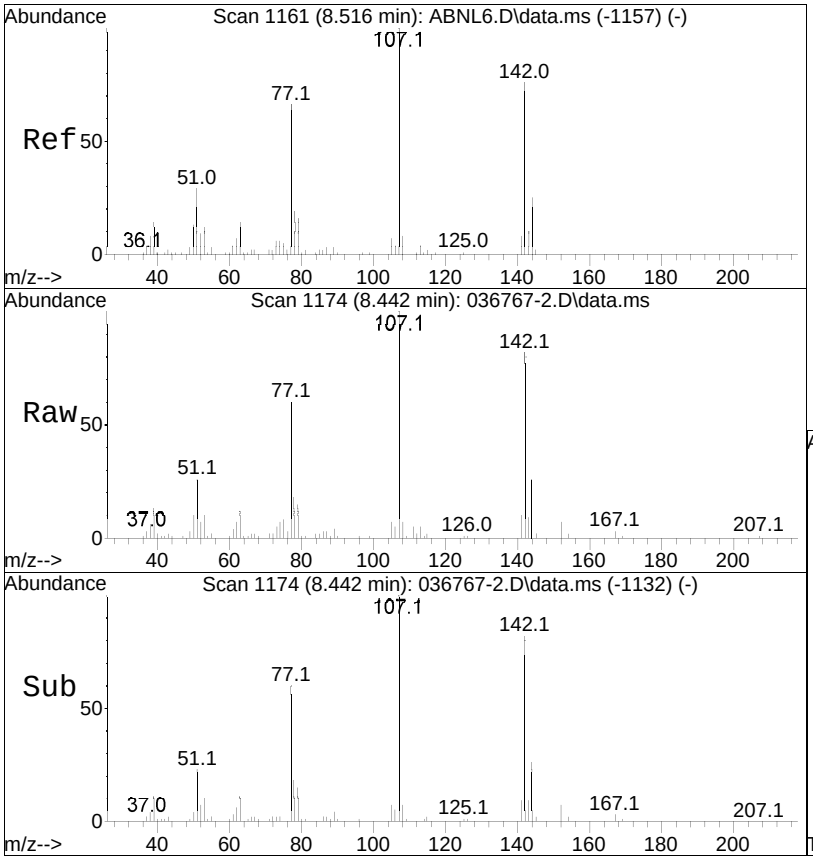


#38
4-Chloroaniline
Concen: 1.64 ug/ml M3
RT: 7.913 min Scan# 1084
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 65 Resp: 11850

Ion	Ratio	Lower	Upper
65	100		
127	335.6	237.6	356.4
129	118.1	76.3	114.5#

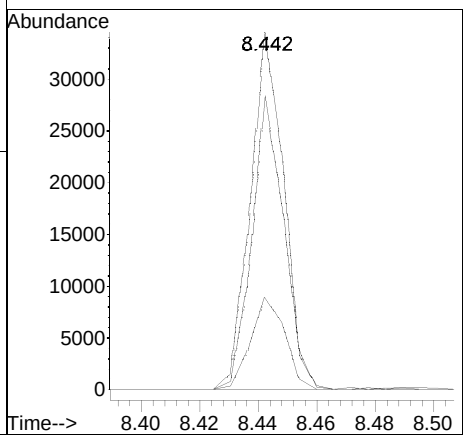


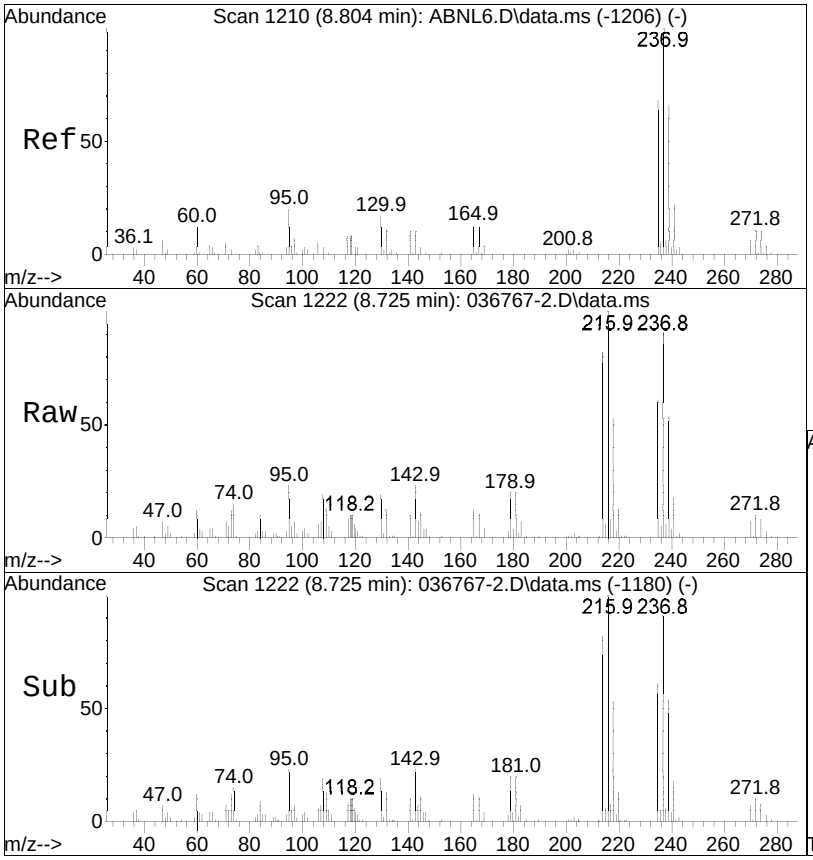


#40
p-Chloro-m-cresol
Concen: 1.61 ug/ml
RT: 8.442 min Scan# 1174
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:107 Resp: 27202

Ion	Ratio	Lower	Upper
107	100		
144	26.5	20.9	31.3
142	78.6	66.1	99.1

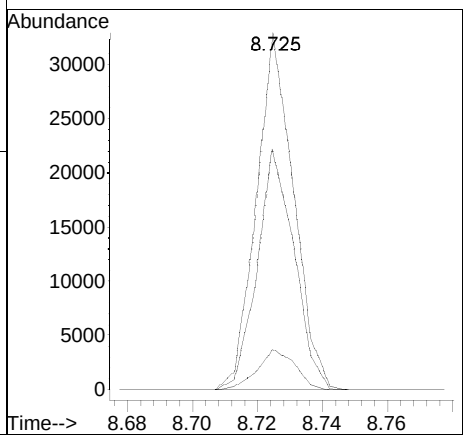


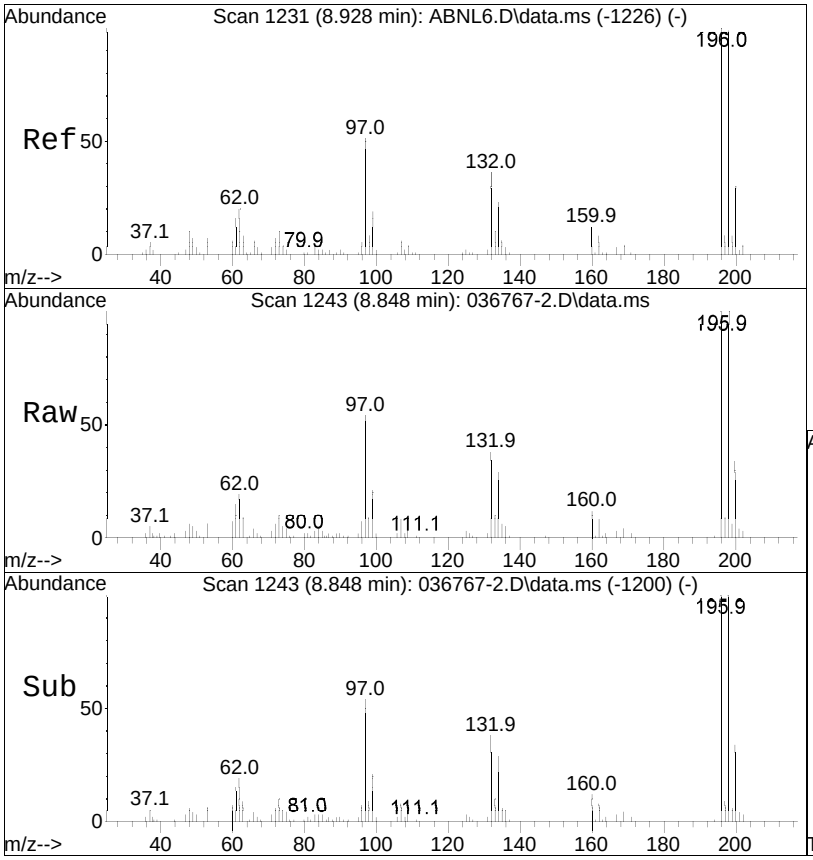


#43
Hexachlorocyclopentadiene
Concen: 1.74 ug/ml
RT: 8.725 min Scan# 1222
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:237 Resp: 26015

Ion	Ratio	Lower	Upper
237	100		
235	67.0	49.7	74.5
272	11.6	9.8	14.6

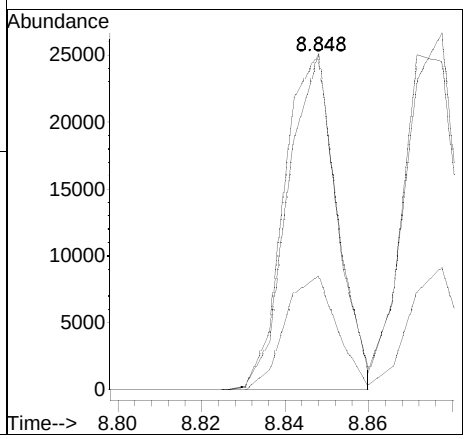


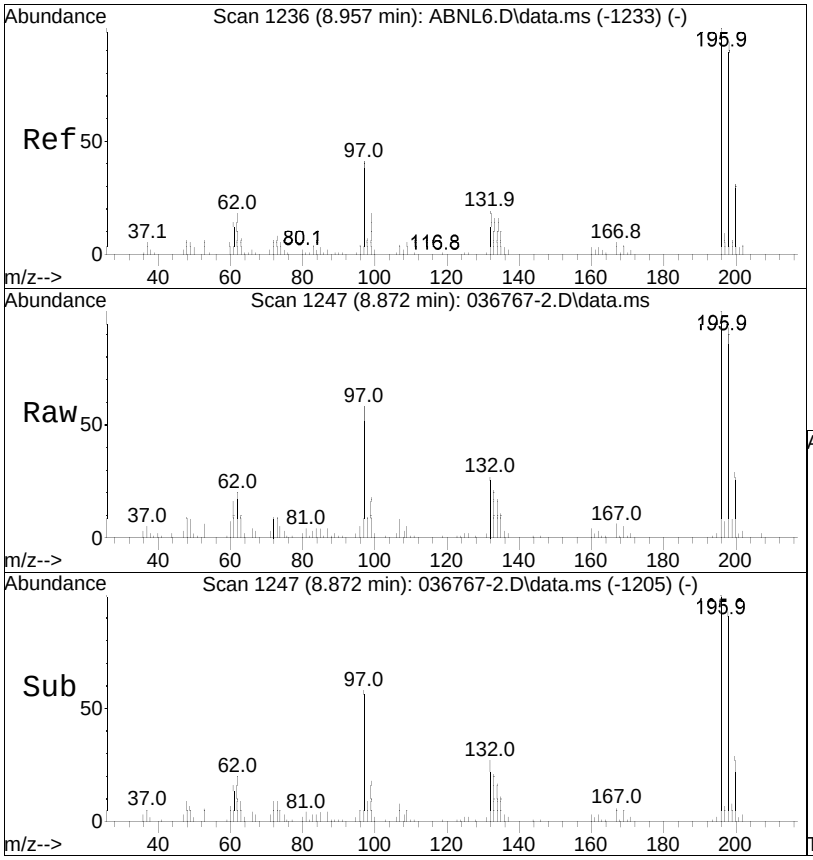


#44
2,4,6-Trichlorophenol
Concen: 1.40 ug/ml
RT: 8.848 min Scan# 1243
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:196 Resp: 21945

Ion	Ratio	Lower	Upper
196	100		
198	94.0	77.5	116.3
200	33.6	23.8	35.6

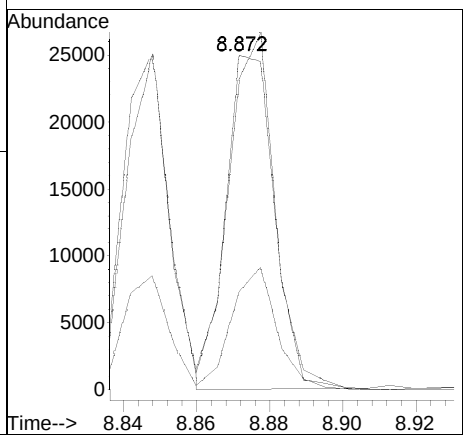


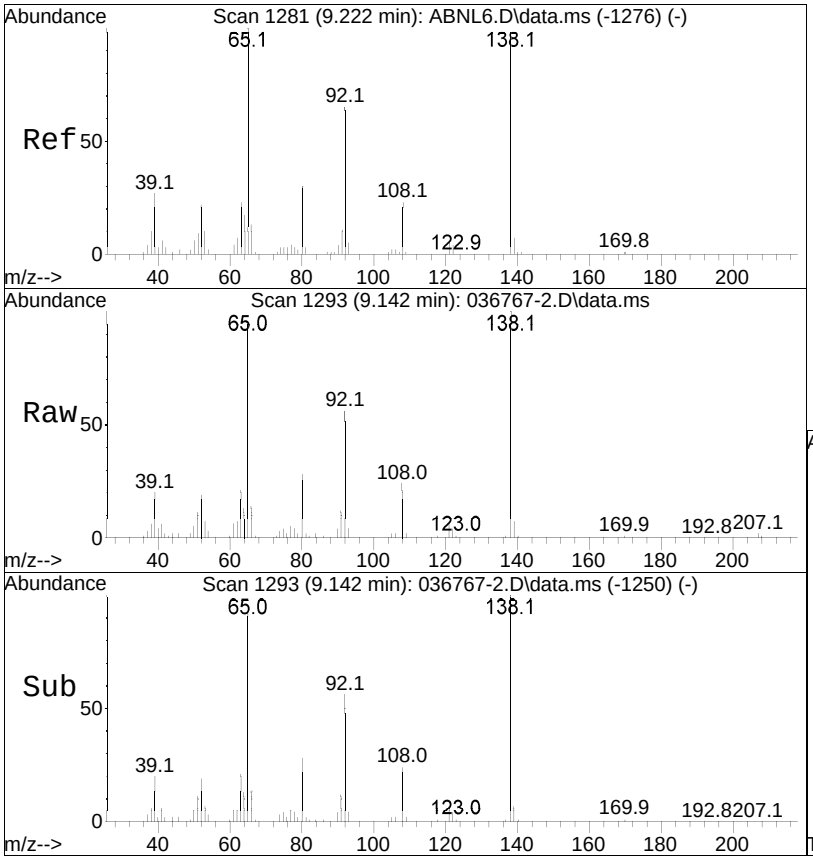


#45
2,4,5-Trichlorophenol
Concen: 1.40 ug/ml
RT: 8.872 min Scan# 1247
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:196 Resp: 22752

Ion	Ratio	Lower	Upper
196	100		
200	34.8	25.4	38.0
198	103.3	78.0	117.0

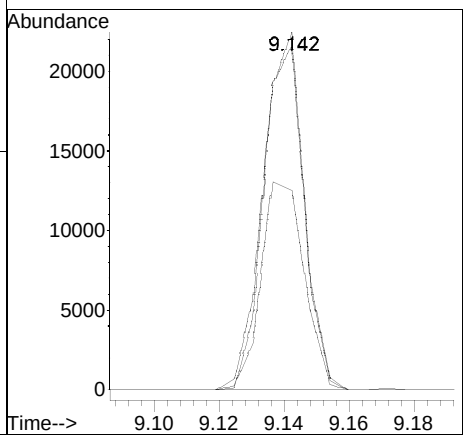


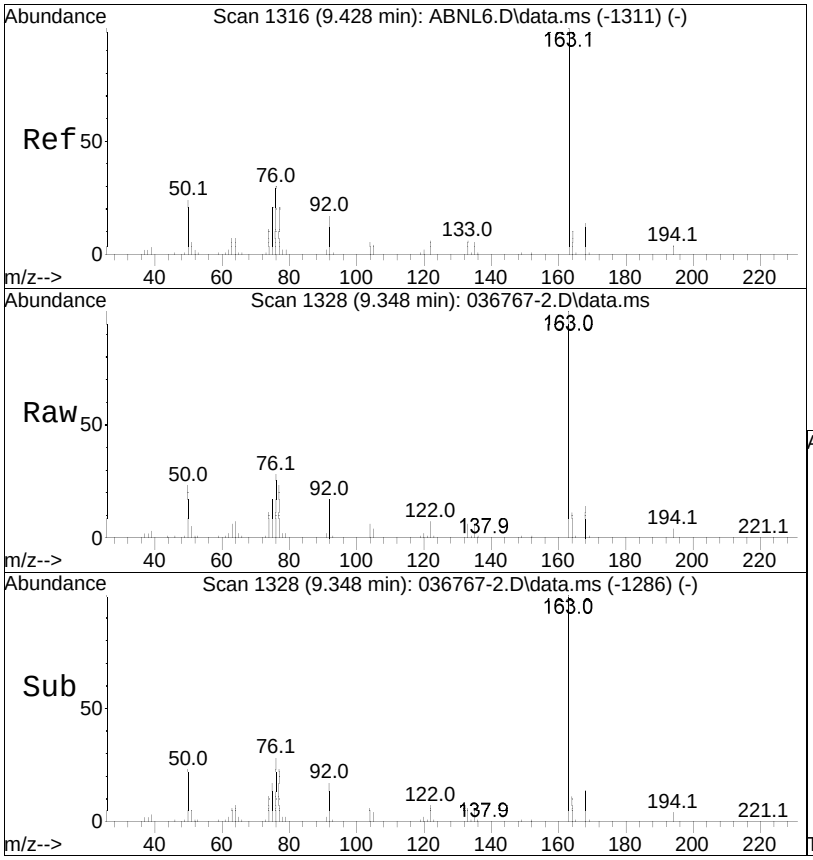


#48
2-Nitroaniline
Concen: 1.48 ug/ml
RT: 9.142 min Scan# 1293
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:138 Resp: 18895

Ion	Ratio	Lower	Upper
138	100		
92	63.6	53.5	80.3
65	100.9	86.3	129.5

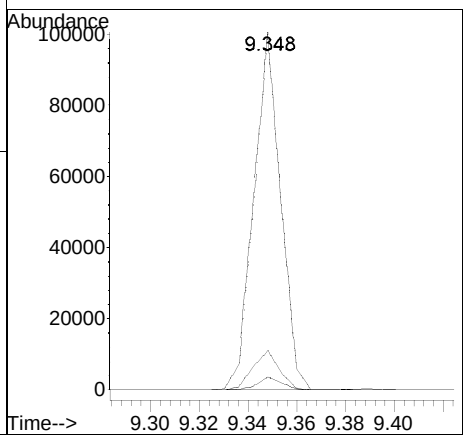


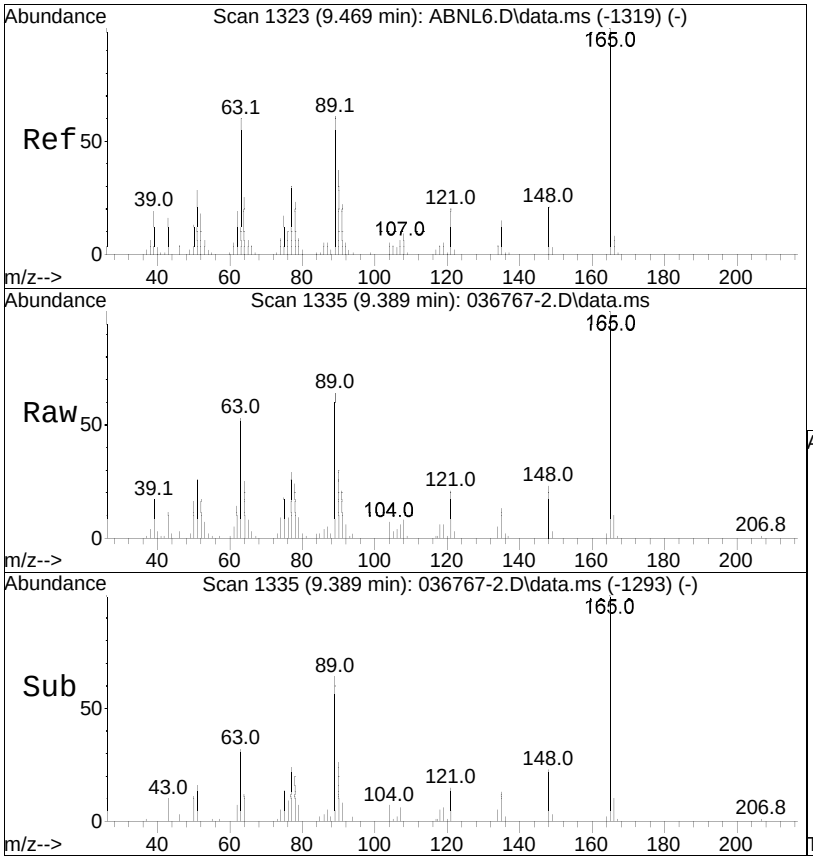


#51
Dimethyl phthalate
Concen: 1.45 ug/ml
RT: 9.348 min Scan# 1328
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:163 Resp: 75967

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.5	5.3#
164	11.1	7.9	11.9

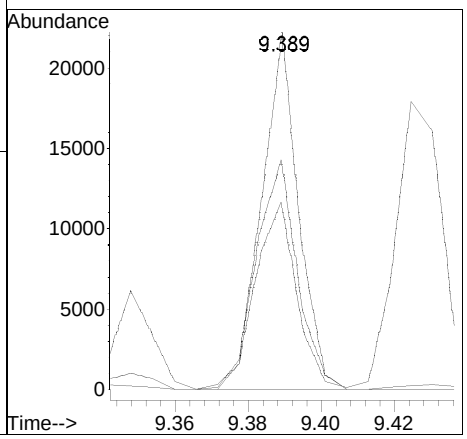


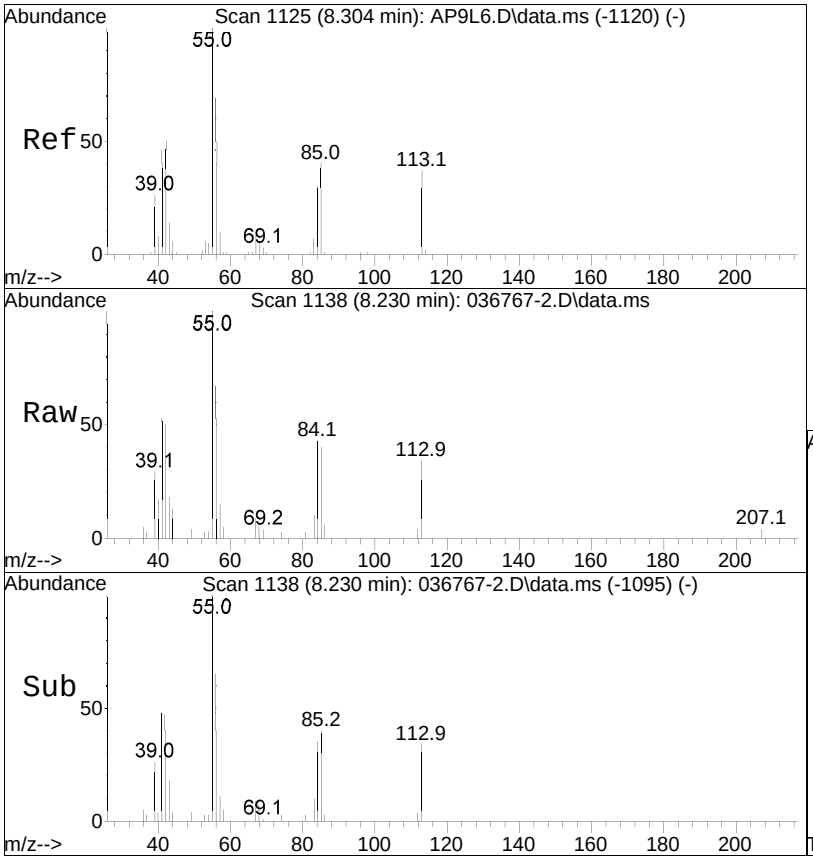


#53
2,6-Dinitrotoluene
Concen: 1.46 ug/ml
RT: 9.389 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:165 Resp: 15550

Ion	Ratio	Lower	Upper
165	100		
89	72.1	54.2	81.2
63	59.4	64.2	96.2#

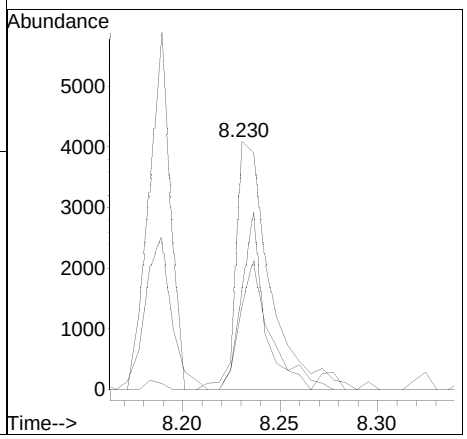


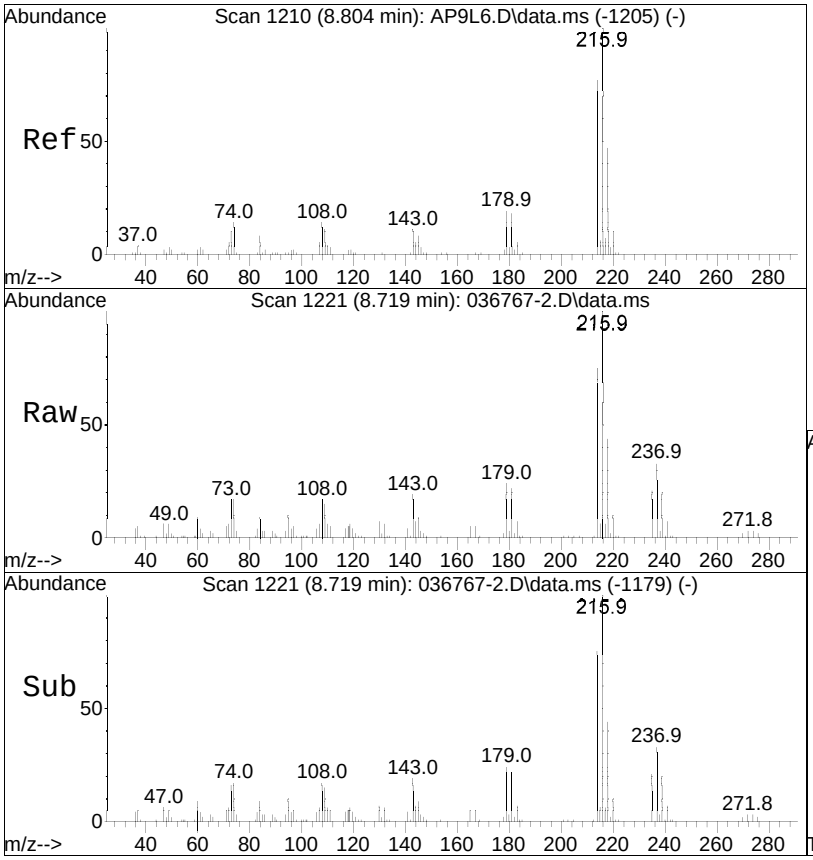


#60
Caprolactam
Concen: 0.59 ug/ml
RT: 8.230 min Scan# 1138
Delta R.T. 0.006 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 55 Resp: 4965

Ion	Ratio	Lower	Upper
55	100		
85	51.2	19.8	29.6#
113	43.7	29.6	44.4

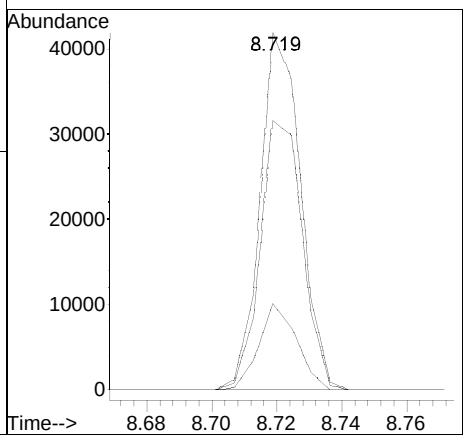


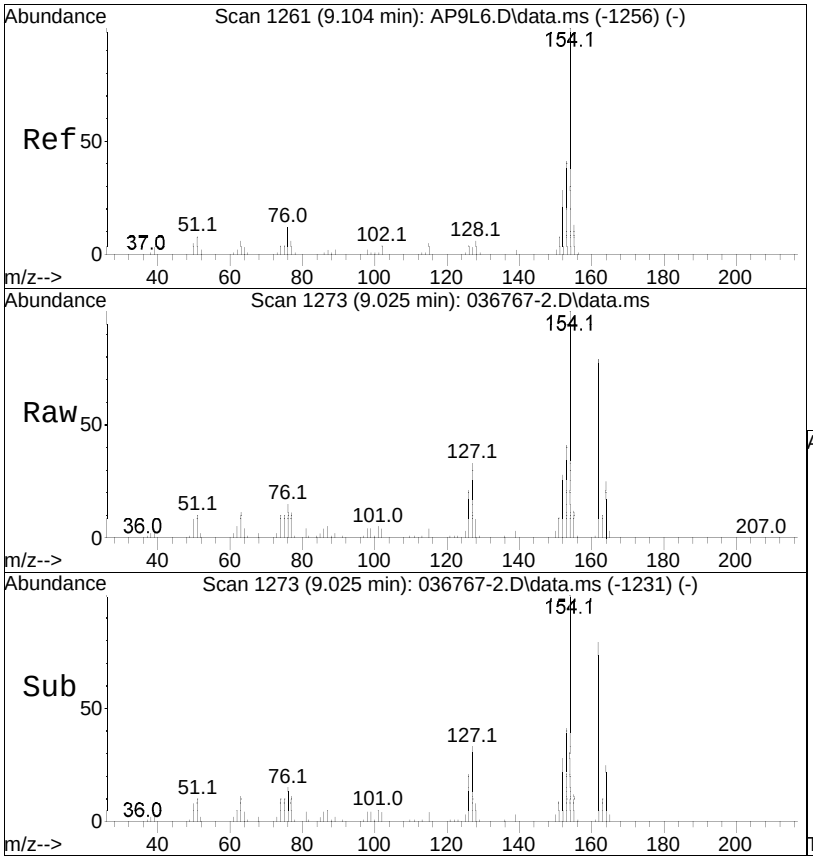


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.57 ug/ml
RT: 8.719 min Scan# 1221
Delta R.T. -0.000 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:216 Resp: 36031

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.7	95.5
179	22.6	19.0	28.6

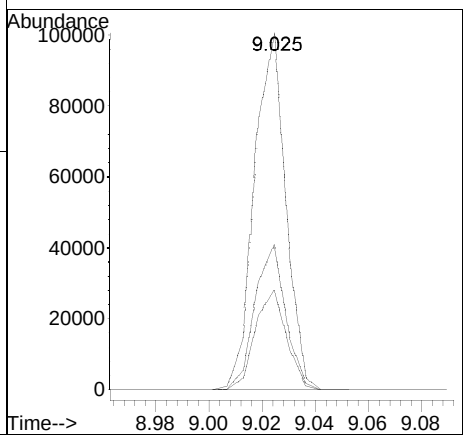


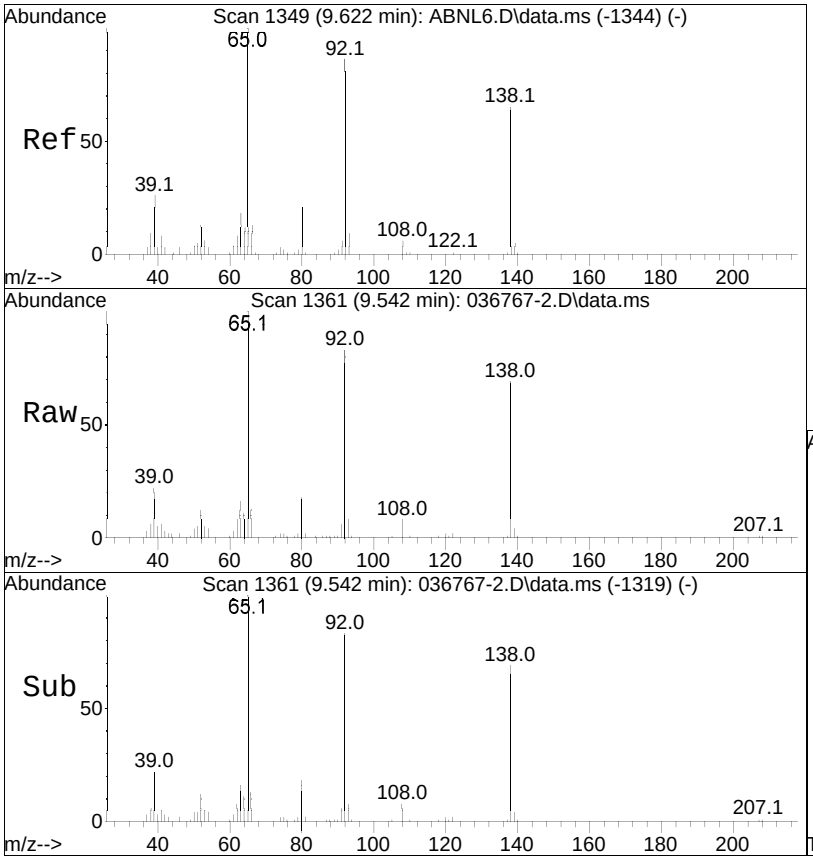


#62
Biphenyl
Concen: 1.58 ug/ml
RT: 9.025 min Scan# 1273
Delta R.T. -0.000 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:154 Resp: 81876

Ion	Ratio	Lower	Upper
154	100		
153	40.2	32.3	48.5
152	28.0	22.5	33.7

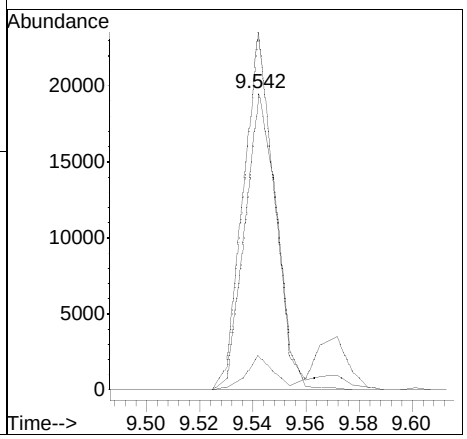


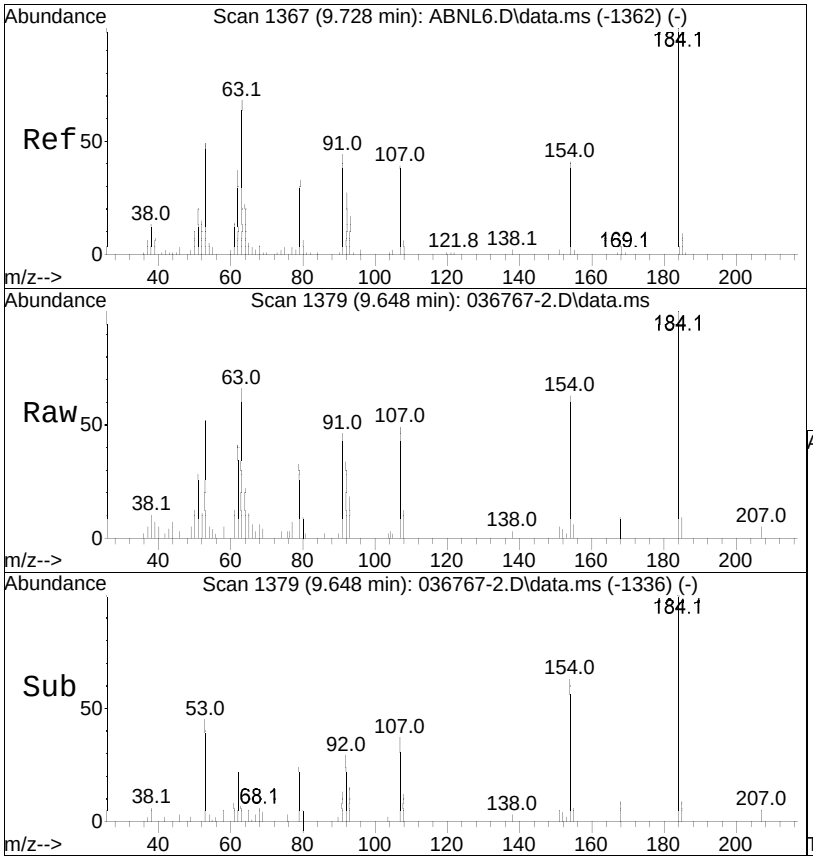


#64
3-Nitroaniline
Concen: 1.49 ug/ml
RT: 9.542 min Scan# 1361
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:138 Resp: 16334

Ion	Ratio	Lower	Upper
138	100		
92	121.0	93.4	140.2
108	10.2	9.5	14.3

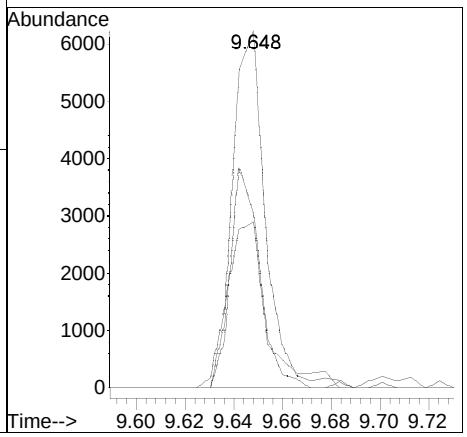


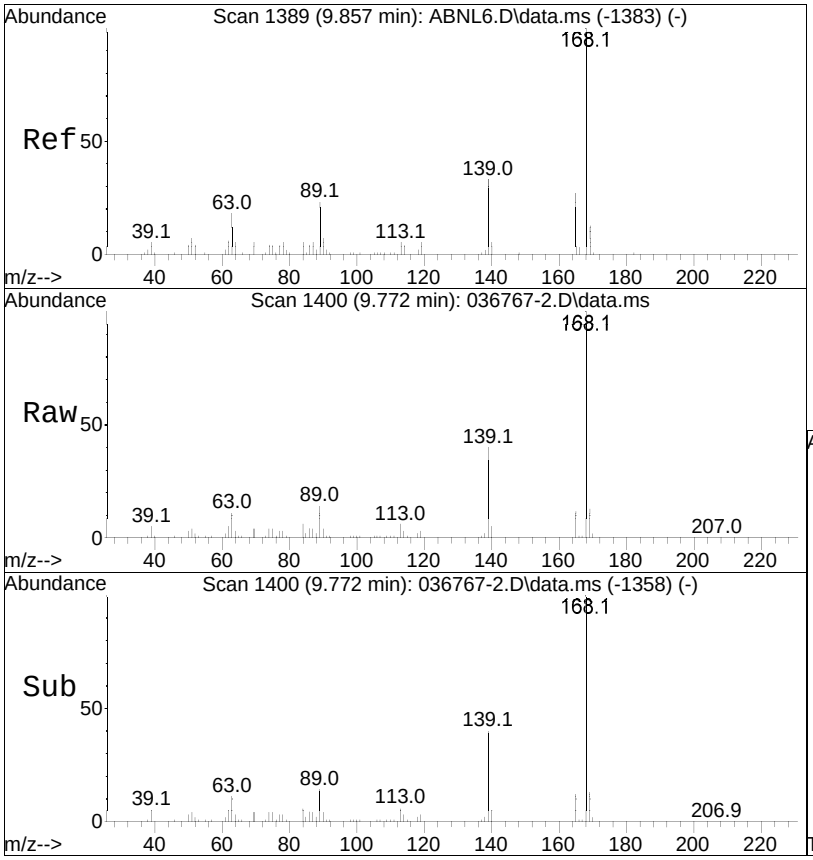


#66
2,4-Dinitrophenol
Concen: 1.86 ug/ml
RT: 9.648 min Scan# 1379
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:184 Resp: 5820

Ion	Ratio	Lower	Upper
184	100		
107	54.7	37.7	56.5
91	55.9	46.3	69.5

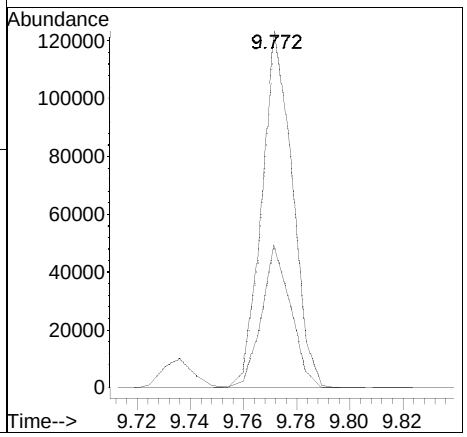


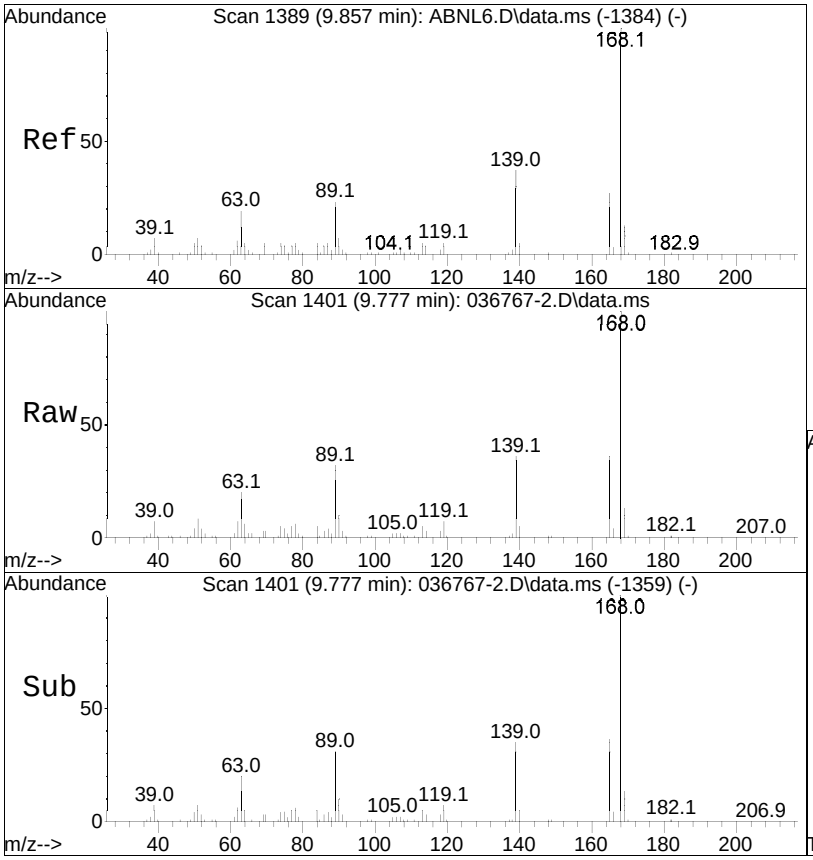


#67
Dibenzofuran
Concen: 1.53 ug/ml
RT: 9.772 min Scan# 1400
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:168 Resp: 97384

Ion	Ratio	Lower	Upper
168	100		
139	38.4	31.4	47.2

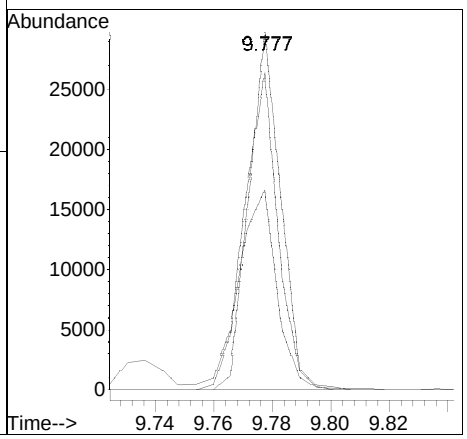


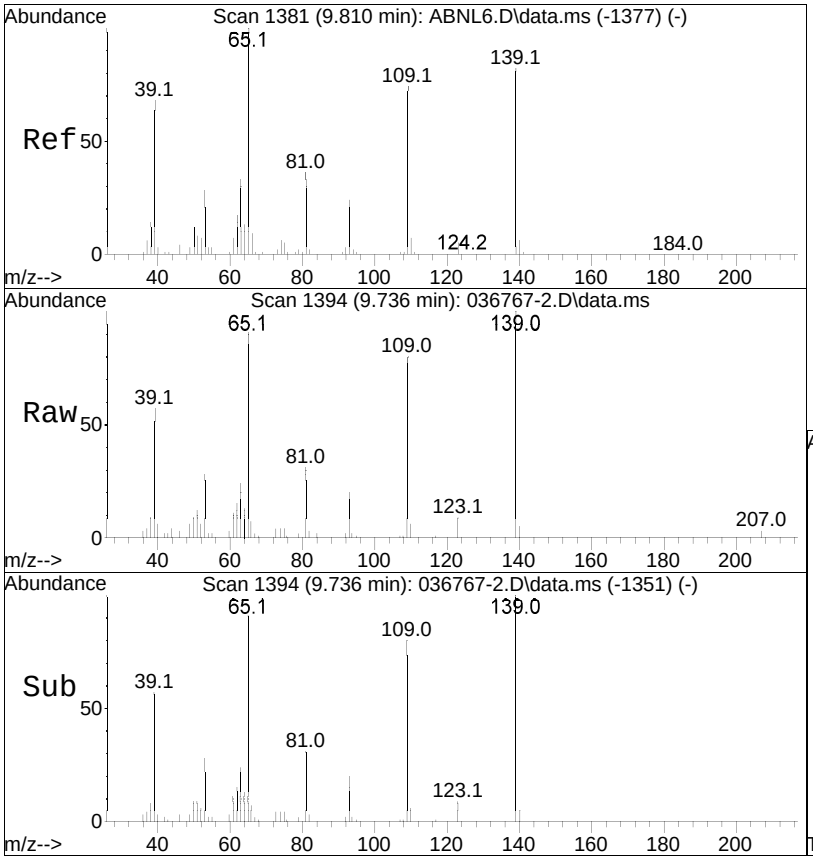


#68
2,4-Dinitrotoluene
Concen: 1.56 ug/ml
RT: 9.777 min Scan# 1401
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:165 Resp: 22275

Ion	Ratio	Lower	Upper
165	100		
89	94.0	72.0	108.0
63	67.9	52.7	79.1

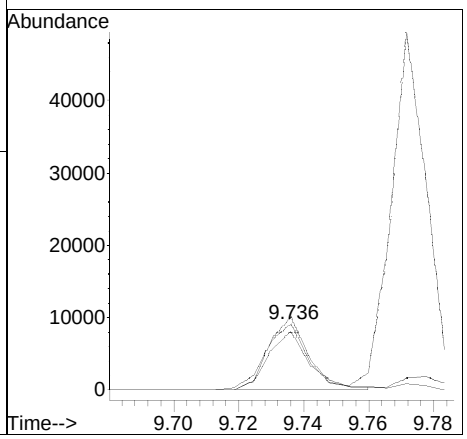


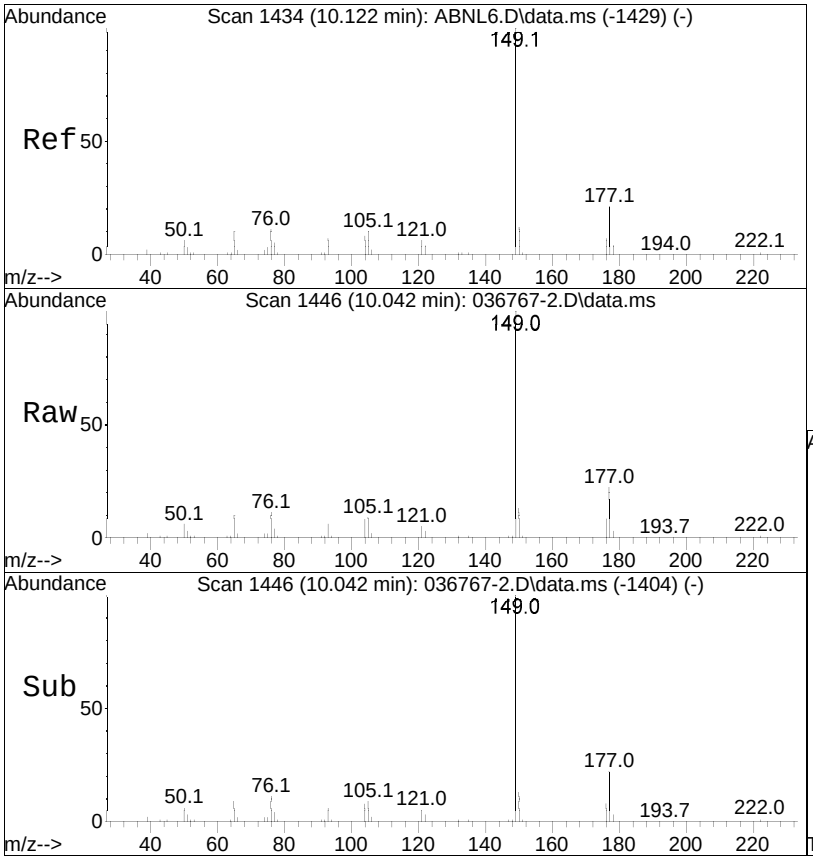


#69
4-Nitrophenol
Concen: 1.03 ug/ml
RT: 9.736 min Scan# 1394
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion: 65 Resp: 8403

Ion	Ratio	Lower	Upper
65	100		
109	86.3	47.4	71.2#
139	101.2	76.6	115.0

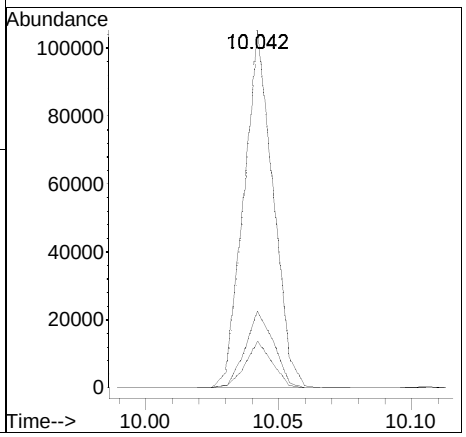


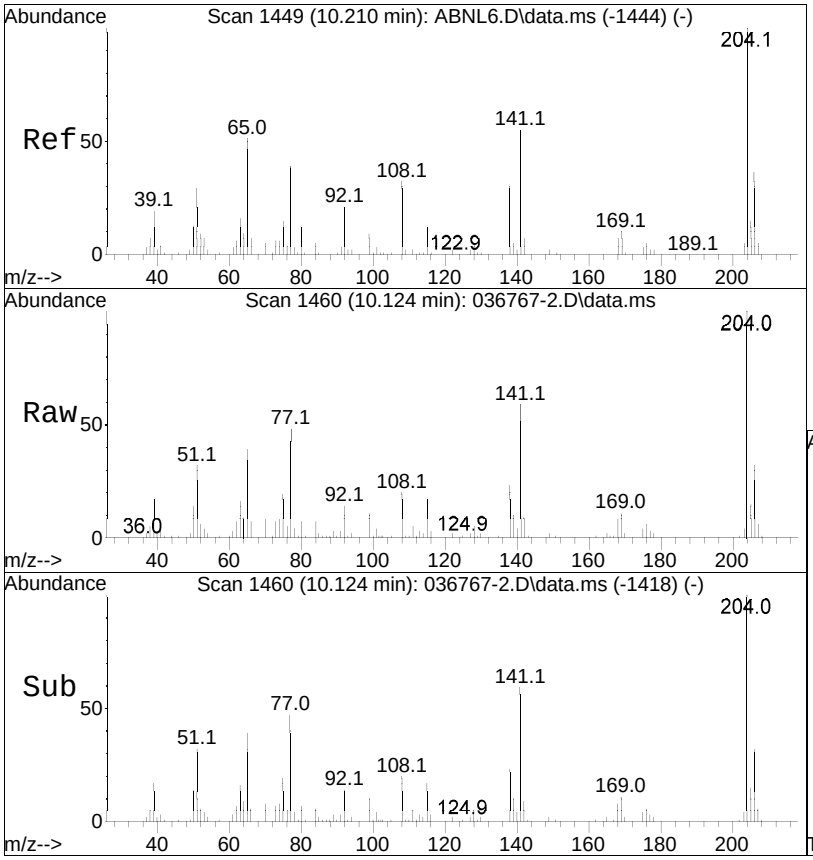


#72
Diethyl phthalate
Concen: 1.54 ug/ml
RT: 10.042 min Scan# 1446
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:149 Resp: 79600

Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.1	24.1
150	12.2	9.4	14.2

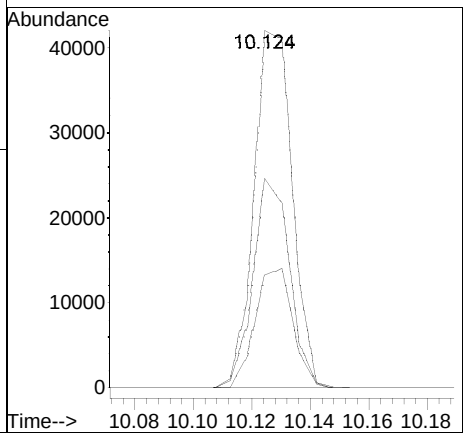


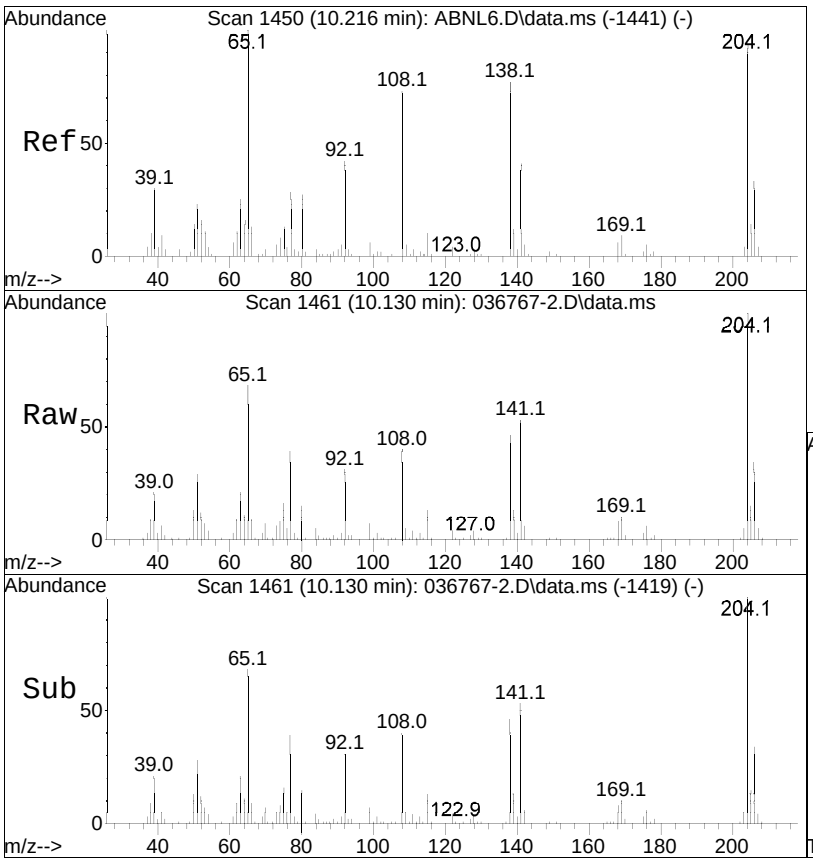


#74
4-Chlorophenyl phenyl ether
Concen: 1.49 ug/ml
RT: 10.124 min Scan# 1460
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:204 Resp: 38070

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	56.0	53.6	80.4

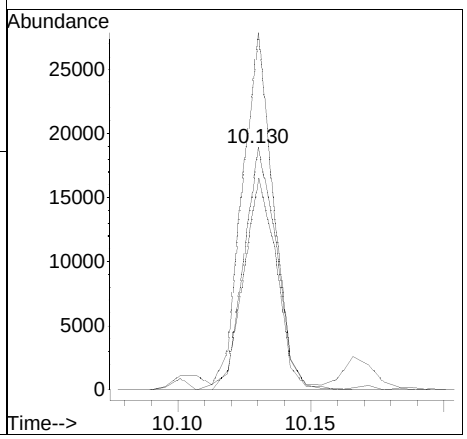


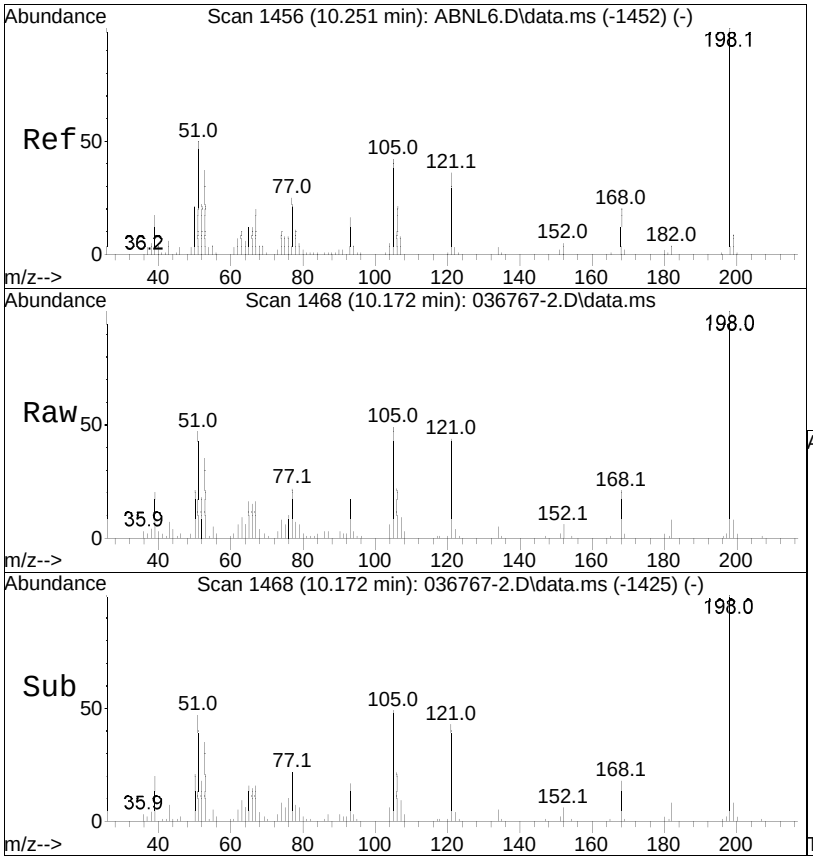


#75
4-Nitroaniline
Concen: 1.44 ug/ml
RT: 10.130 min Scan# 1461
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:138 Resp: 16160

Ion	Ratio	Lower	Upper
138	100		
108	87.6	52.1	78.1#
65	146.7	115.0	172.6

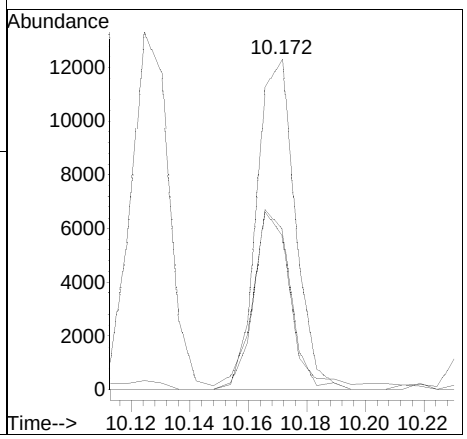


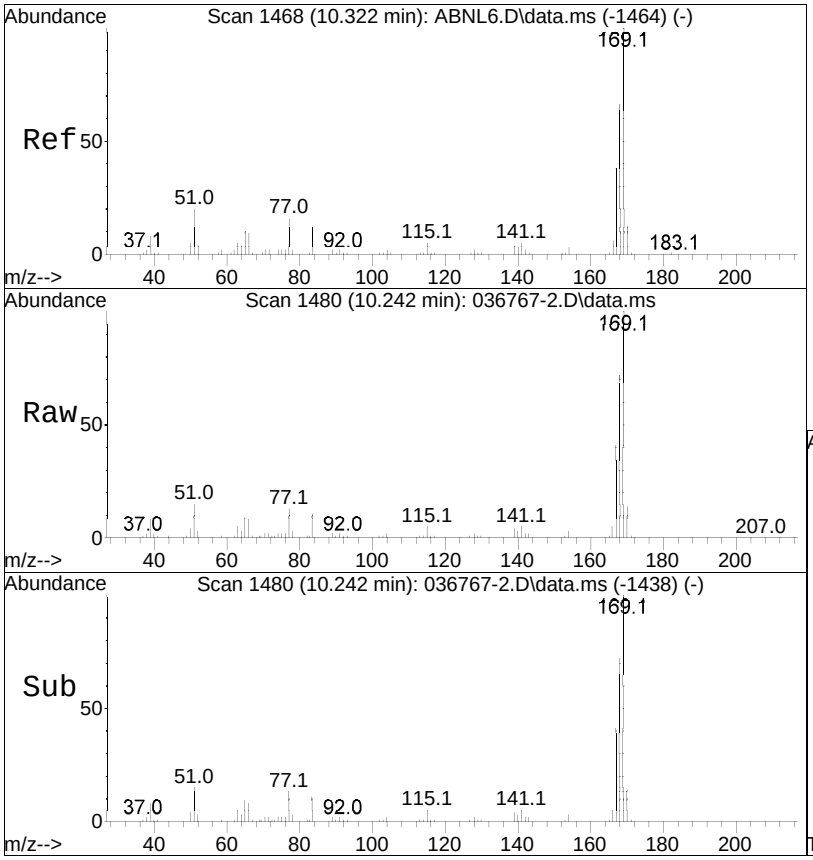


#76
4,6-Dinitro-o-cresol
Concen: 1.43 ug/ml
RT: 10.172 min Scan# 1468
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:198 Resp: 11223

Ion	Ratio	Lower	Upper
198	100		
51	53.0	76.0	114.0#
105	51.9	45.6	68.4

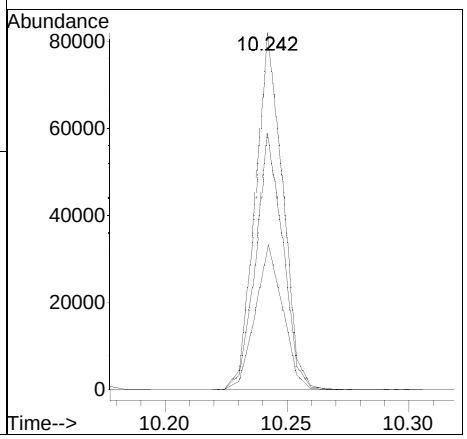


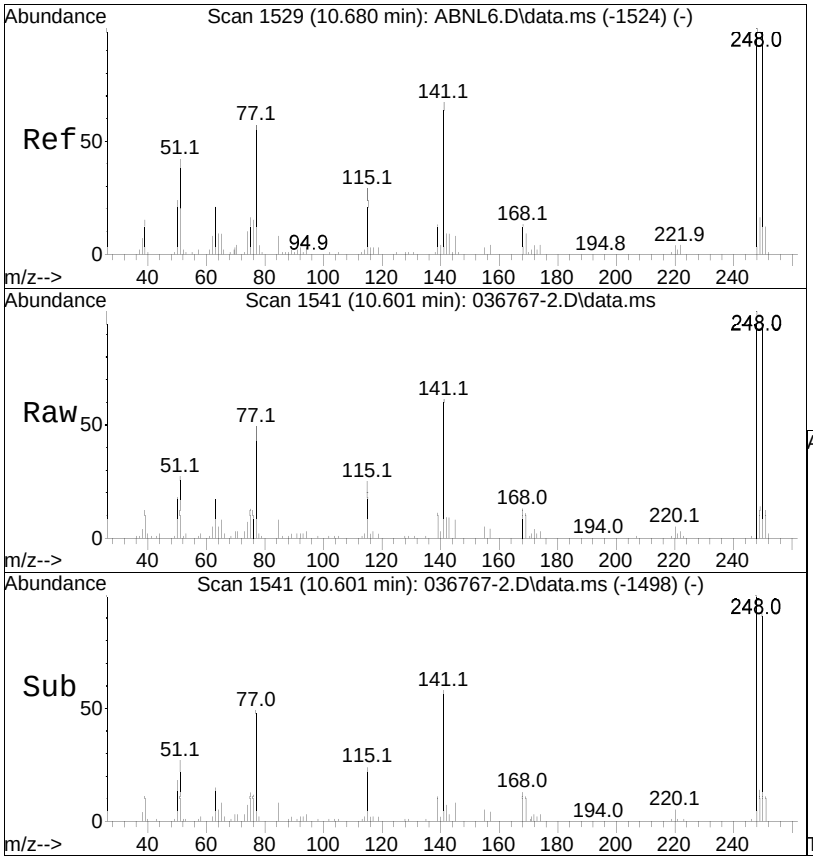


#77
NDPA/DPA
Concen: 1.48 ug/ml
RT: 10.242 min Scan# 1480
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:169 Resp: 63614

Ion	Ratio	Lower	Upper
169	100		
168	72.0	54.0	81.0
167	41.3	28.6	42.8

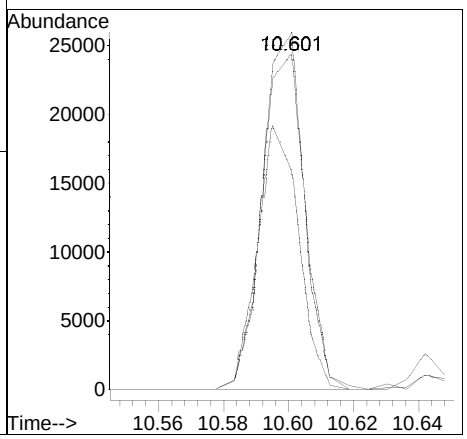


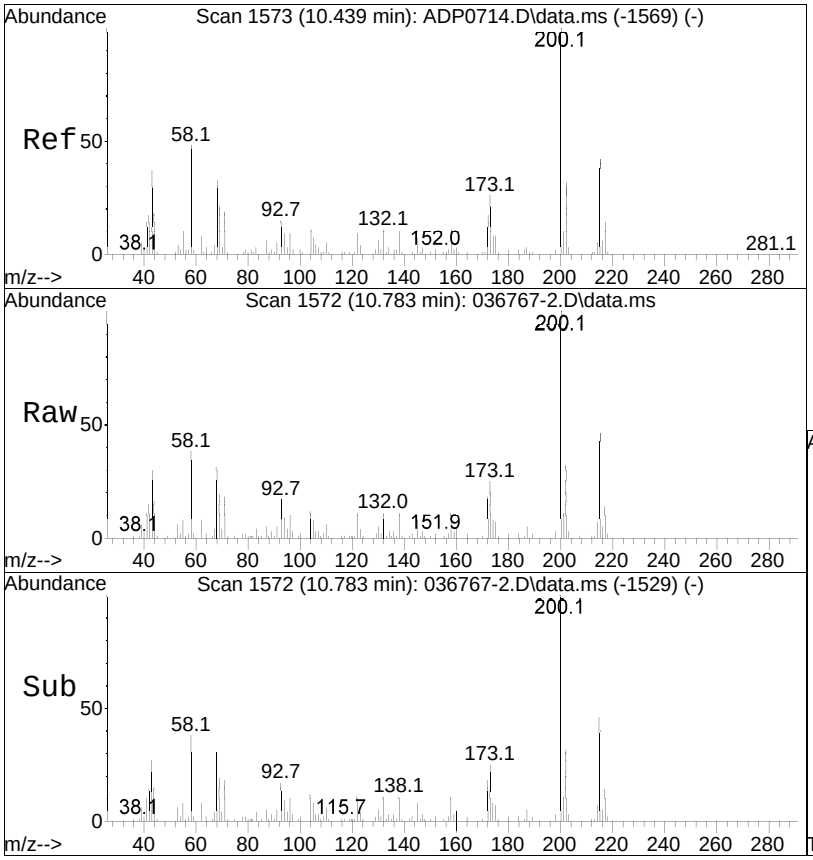


#80
4-Bromophenyl phenyl ether
Concen: 1.45 ug/ml
RT: 10.601 min Scan# 1541
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:248 Resp: 22892

Ion	Ratio	Lower	Upper
248	100		
141	73.2	76.6	114.8#
250	97.8	77.3	115.9

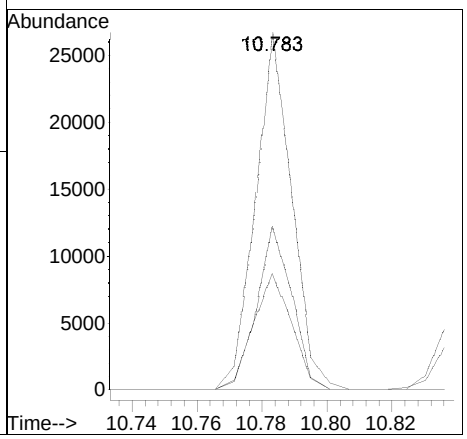


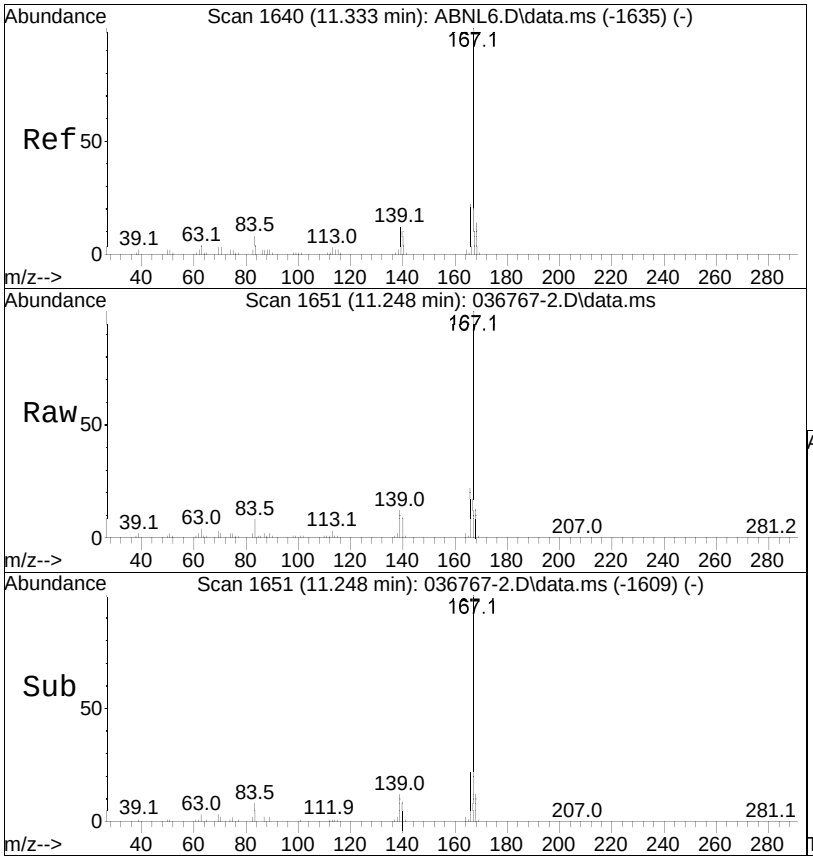


#87
Atrazine
Concen: 1.45 ug/ml
RT: 10.783 min Scan# 1572
Delta R.T. 0.000 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:200 Resp: 20521

Ion	Ratio	Lower	Upper
200	100		
202	34.5	25.8	38.6
215	44.6	40.2	60.4

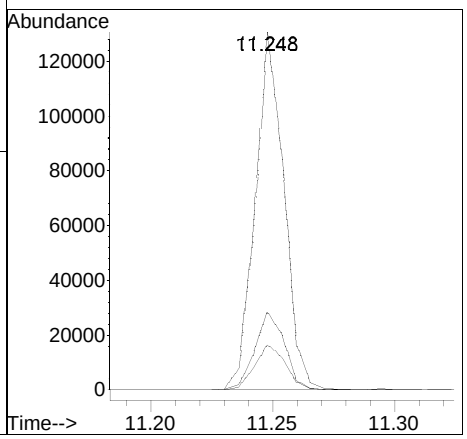


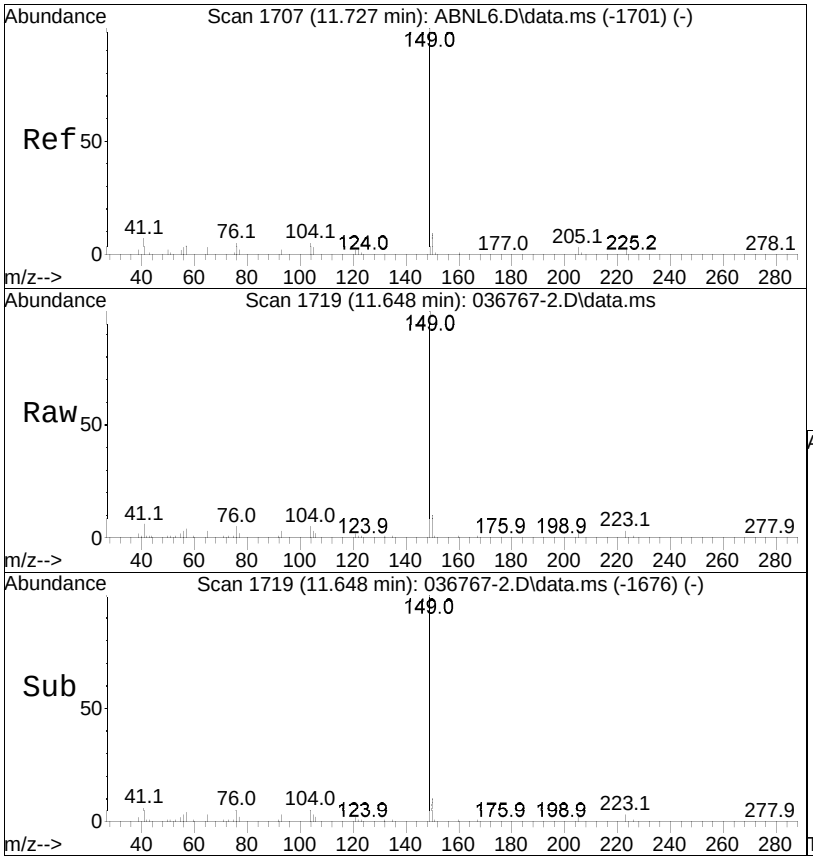


#91
Carbazole
Concen: 1.50 ug/ml
RT: 11.248 min Scan# 1651
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:167 Resp: 105680

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.8	17.4	26.0

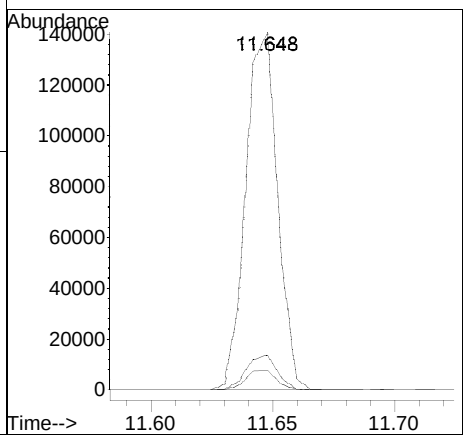


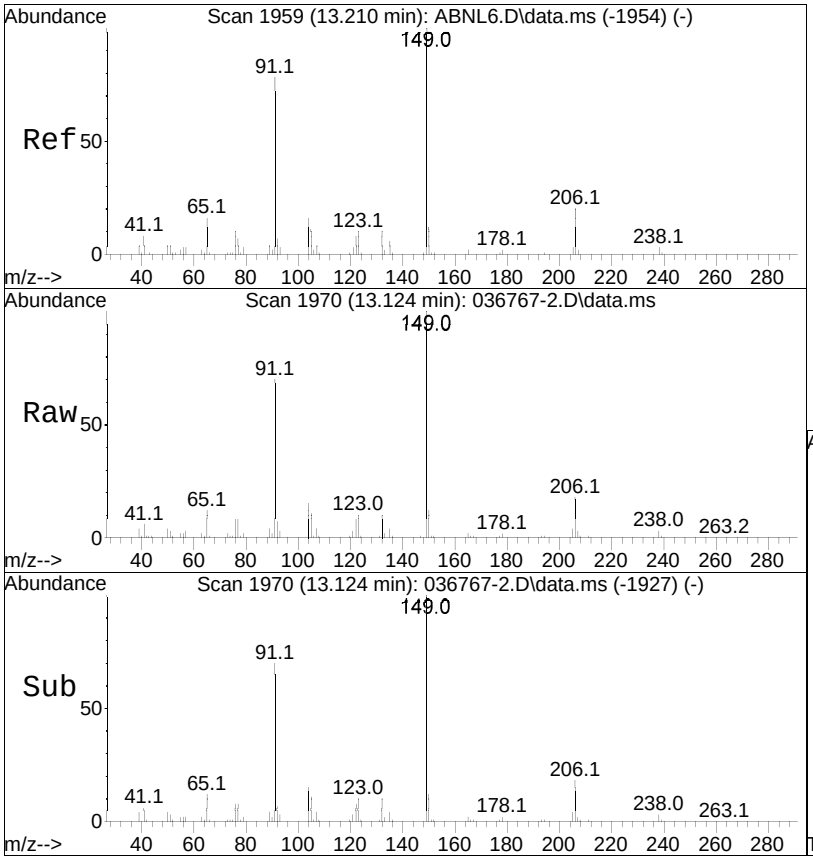


#92
Di-n-butylphthalate
Concen: 1.43 ug/ml
RT: 11.648 min Scan# 1719
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:149 Resp: 126358

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.0	10.6
104	5.4	4.5	6.7

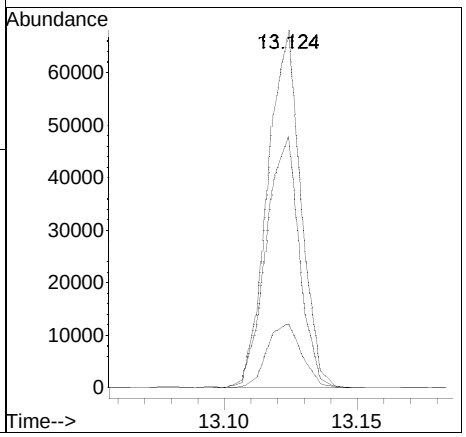


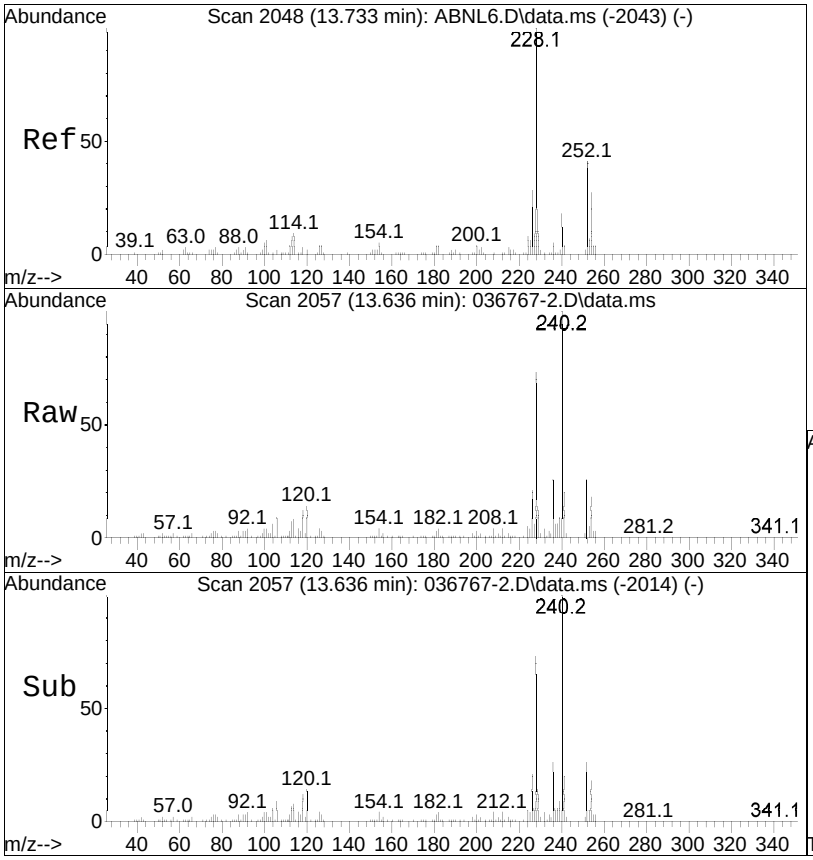


#97
Butyl benzyl phthalate
Concen: 1.58 ug/ml
RT: 13.124 min Scan# 1970
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:149 Resp: 58410

Ion	Ratio	Lower	Upper
149	100		
91	71.1	63.3	94.9
206	19.2	13.9	20.9

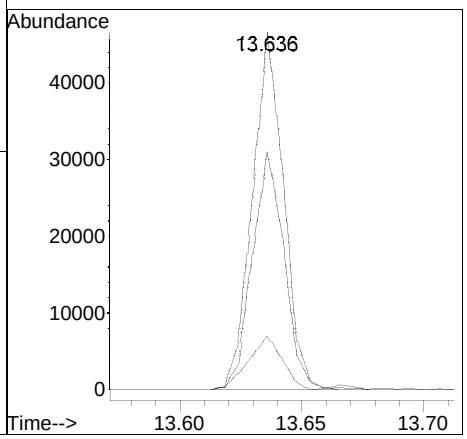


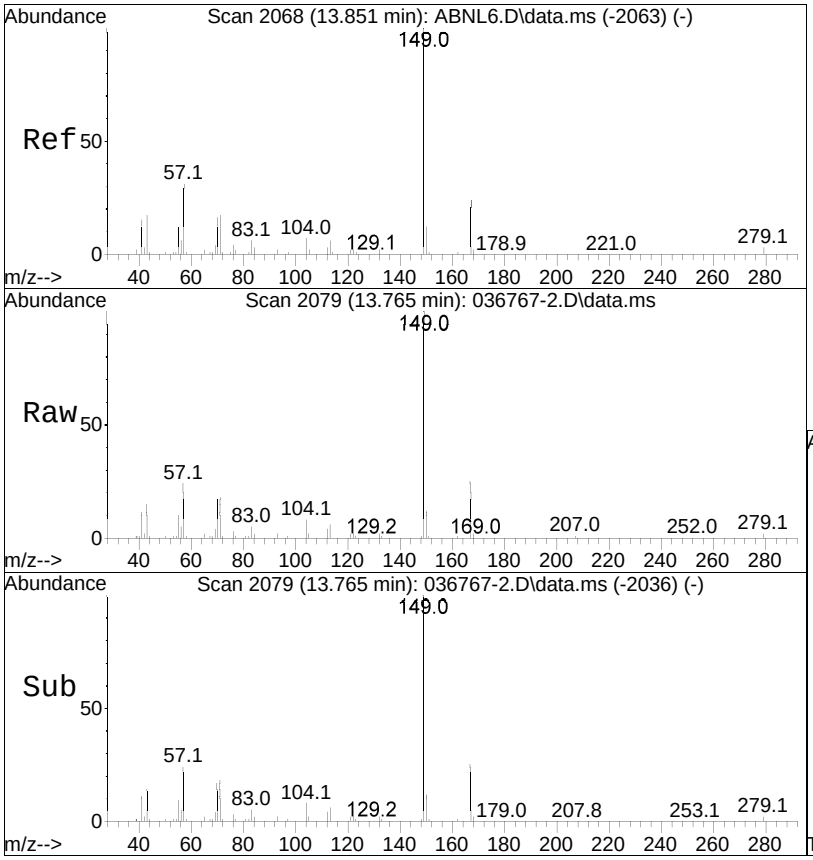


#106
3,3'-Dichlorobenzidine
Concen: 1.39 ug/ml
RT: 13.636 min Scan# 2057
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:252 Resp: 41313

Ion	Ratio	Lower	Upper
252	100		
126	16.5	14.5	21.7
254	67.7	51.2	76.8

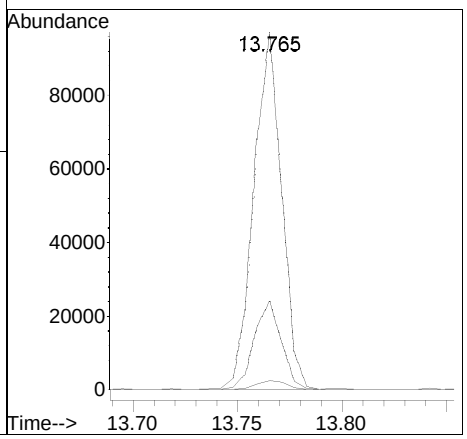


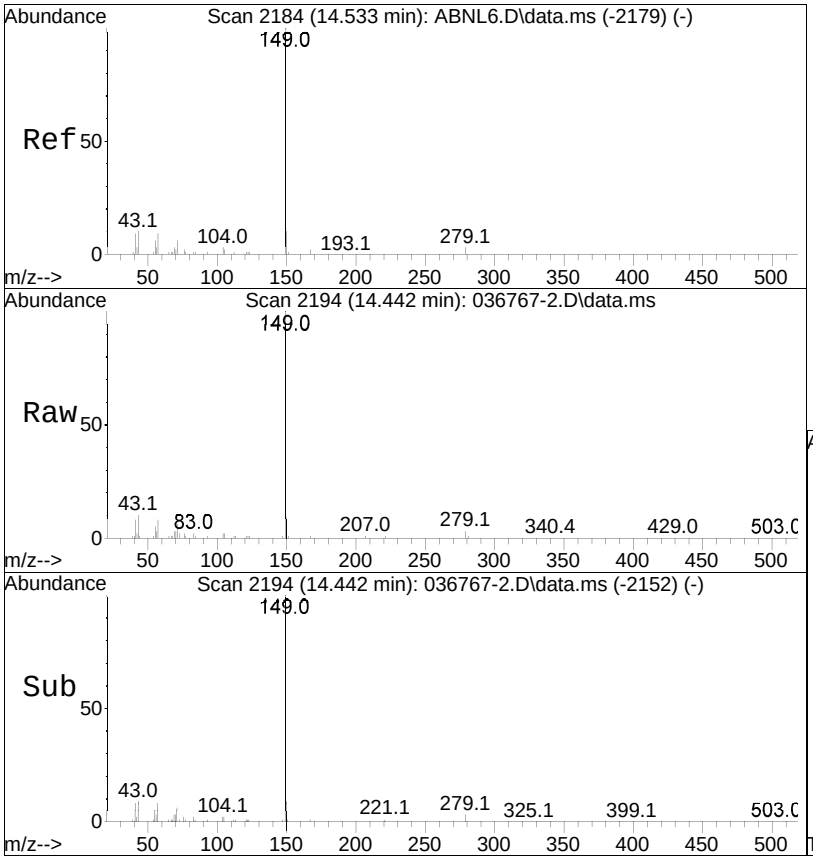


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.64 ug/ml
RT: 13.765 min Scan# 2079
Delta R.T. 0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:149 Resp: 89017

Ion	Ratio	Lower	Upper
149	100		
167	24.3	22.1	33.1
279	2.5	3.0	4.4#

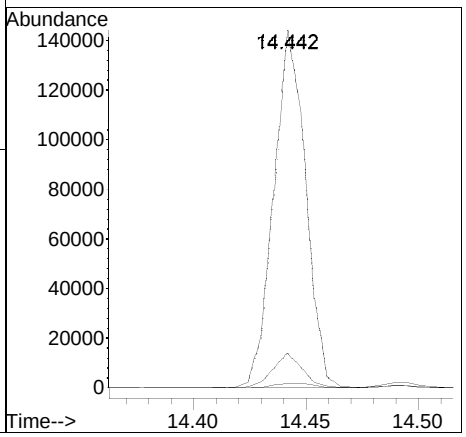




#109
Di-n-octylphthalate
Concen: 1.56 ug/ml
RT: 14.442 min Scan# 2194
Delta R.T. -0.003 min
Lab File: 036767-2.D
Acq: 5 Mar 2025 1:56 pm

Tgt Ion:149 Resp: 140466

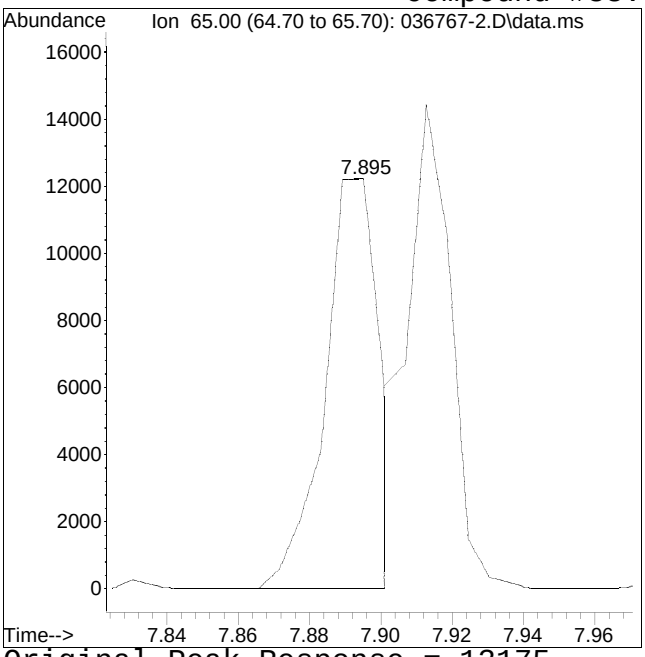
Ion	Ratio	Lower	Upper
149	100		
43	8.8	18.8	28.2#
167	1.6	1.3	1.9

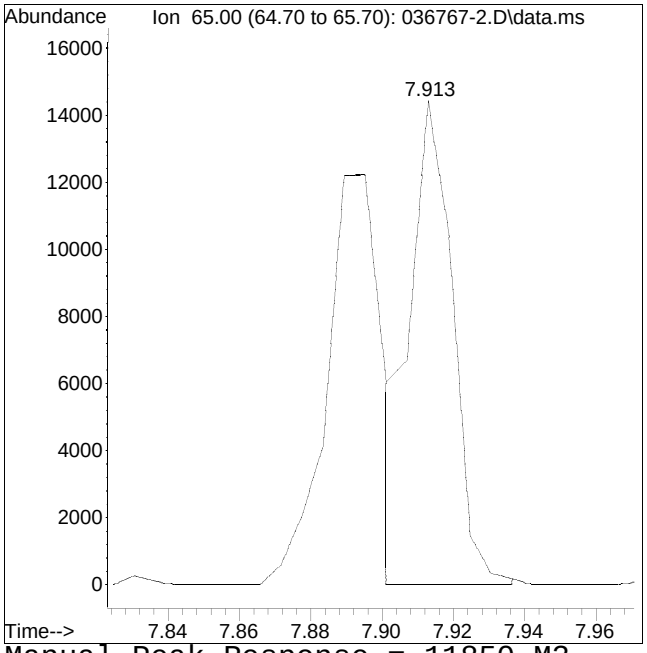


Manual Integration Report

Data Path	: I:\8270\SV106\250305RVT\	QMethod	: FS241009SV106.m
Data File	: 036767-2.D	Operator	: SV106:smz
Date Inj'd	: 3/5/2025 1:56 pm	Instrument	: SV 106
Sample	: WG2036767-2,32,,gmr	Quant Date	: 3/5/2025 2:16 pm

Compound #38: 4-Chloroaniline





Original Peak Response = 13175 Manual Peak Response = 11850 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-3.D
Acq On : 5 Mar 2025 2:20 pm
Operator : SV106:smz
Sample : WG2036767-3,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 14:49:45 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.372	152	60960	4.000	ug/ml		0.00
Standard Area 1 = 78779			Recovery = 77.38%				
27) IS2_1,4-Dichlorobenzen...	6.372	152	60960	4.000	ug/ml		0.00
Standard Area 3 = 75233			Recovery = 81.03%				
32) IS3_1,4-Dichlorobenzen...	6.372	152	60960	4.000	ug/ml		0.00
Standard Area 2 = 77182			Recovery = 78.98%				
35) IS1_Naphthalene-d8	7.807	136	239719	4.000	ug/ml	#	0.00
Standard Area 1 = 296328			Recovery = 80.90%				
55) IS2_Naphthalene-d8	7.807	136	239719	4.000	ug/ml	#	0.00
Standard Area 3 = 281912			Recovery = 85.03%				
63) IS1_Acenaphthene-d10	9.572	164	135516	4.000	ug/ml		0.00
Standard Area 1 = 172610			Recovery = 78.51%				
83) IS2_Acenaphthene-d10	9.572	164	135516	4.000	ug/ml		0.00
Standard Area 3 = 163577			Recovery = 82.85%				
86) IS3_Acenaphthene-d10	9.572	164	135516	4.000	ug/ml		0.00
Standard Area 2 = 165182			Recovery = 82.04%				
88) IS1_Phenanthrene-d10	11.007	188	261567	4.000	ug/ml	#	0.00
Standard Area 1 = 322082			Recovery = 81.21%				
100) IS3_Phenanthrene-d10	11.007	188	261567	4.000	ug/ml	#	0.00
Standard Area 2 = 325681			Recovery = 80.31%				
104) IS1_Chrysene-d12	13.636	240	251678	4.000	ug/ml		0.00
Standard Area 1 = 297393			Recovery = 84.63%				
113) IS1_Perylene-d12	15.101	264	271294	4.000	ug/ml		0.00
Standard Area 1 = 311018			Recovery = 87.23%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.413	112	19092	1.007	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.35%				
7) Phenol-d6	6.001	99	17189	0.753	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.65%				
19) Nitrobenzene-d5	7.037	82	17393	0.840	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 84.00%				
46) 2-Fluorobiphenyl	8.931	172	37157	0.670	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.00%				
79) 2,4,6-Tribromophenol	10.336	330	10703	1.396	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 69.80%				

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-3.D
Acq On : 5 Mar 2025 2:20 pm
Operator : SV106:smz
Sample : WG2036767-3,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 14:49:45 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.595	244	45793	0.652	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.20%			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.107	128	31355	1.507	ug/ml	92
8) Phenol	6.019	94	22966	0.969	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.766	45	40217	1.311	ug/ml#	42
15) 2-Methylphenol	6.760	108	25845	1.510	ug/ml	99
17) n-Nitrosodi-n-propylamine	6.913	70	24289	1.695	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.948	108	28870	1.546	ug/ml	100
20) Nitrobenzene	7.054	77	36385	1.719	ug/ml	96
21) Isophorone	7.342	82	62625	1.701	ug/ml	93
22) 2-Nitrophenol	7.413	139	14709	1.354	ug/ml#	89
23) 2,4-Dimethylphenol	7.519	107	31090	1.824	ug/ml	91
24) Bis(2-chloroethoxy)met...	7.613	93	41266	1.678	ug/ml	97
25) 2,4-Dichlorophenol	7.684	162	28596	1.501	ug/ml	97
28) Benzaldehyde	5.790	105	27479	1.903	ug/ml	97
29) Acetophenone	6.878	105	52582	1.887	ug/ml#	80
38) 4-Chloroaniline	7.913	65	11244M3	1.481	ug/ml	
40) p-Chloro-m-cresol	8.442	107	27893	1.571	ug/ml	100
43) Hexachlorocyclopentadiene	8.725	237	27041	1.723	ug/ml	98
44) 2,4,6-Trichlorophenol	8.848	196	21476	1.302	ug/ml	95
45) 2,4,5-Trichlorophenol	8.872	196	24340	1.425	ug/ml	98
48) 2-Nitroaniline	9.136	138	18538	1.385	ug/ml	97
51) Dimethyl phthalate	9.348	163	80914	1.476	ug/ml#	98
53) 2,6-Dinitrotoluene	9.389	165	17235	1.547	ug/ml#	83
60) Caprolactam	8.231	55	4443	0.505	ug/ml#	63
61) 1,2,4,5-Tetrachloroben...	8.719	216	38003	1.578	ug/ml	98
62) Biphenyl	9.025	154	87592	1.612	ug/ml	98
64) 3-Nitroaniline	9.542	138	15514	1.418	ug/ml	90
66) 2,4-Dinitrophenol	9.642	184	5659	1.849	ug/ml	96
67) Dibenzofuran	9.772	168	101485	1.600	ug/ml	96
68) 2,4-Dinitrotoluene	9.777	165	22962	1.617	ug/ml	100
69) 4-Nitrophenol	9.730	65	8367	1.034	ug/ml#	88
72) Diethyl phthalate	10.042	149	79932	1.554	ug/ml	97
74) 4-Chlorophenyl phenyl ...	10.125	204	39517	1.555	ug/ml	91
75) 4-Nitroaniline	10.130	138	17909	1.608	ug/ml	88

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-3.D
Acq On : 5 Mar 2025 2:20 pm
Operator : SV106:smz
Sample : WG2036767-3,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 14:49:45 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250305RVT\ABN0305.D
: 2 - I:\8270\SV106\250305RVT\ADP0305.D
: 3 - I:\8270\SV106\250305RVT\AP90305.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	10.166	198	11823	1.489	ug/ml#	67
77) NDPA/DPA	10.242	169	64920	1.519	ug/ml	94
80) 4-Bromophenyl phenyl e...	10.595	248	24448	1.552	ug/ml#	83
87) Atrazine	10.783	200	20990	1.493	ug/ml	92
91) Carbazole	11.248	167	104588	1.518	ug/ml	98
92) Di-n-butylphthalate	11.642	149	125574	1.456	ug/ml	99
97) Butyl benzyl phthalate	13.118	149	54500	1.503	ug/ml	92
106) 3,3'-Dichlorobenzidine	13.636	252	43199	1.515	ug/ml#	97
108) Bis(2-ethylhexyl)phtha...	13.760	149	83929	1.611	ug/ml#	94
109) Di-n-octylphthalate	14.436	149	130726	1.513	ug/ml#	73

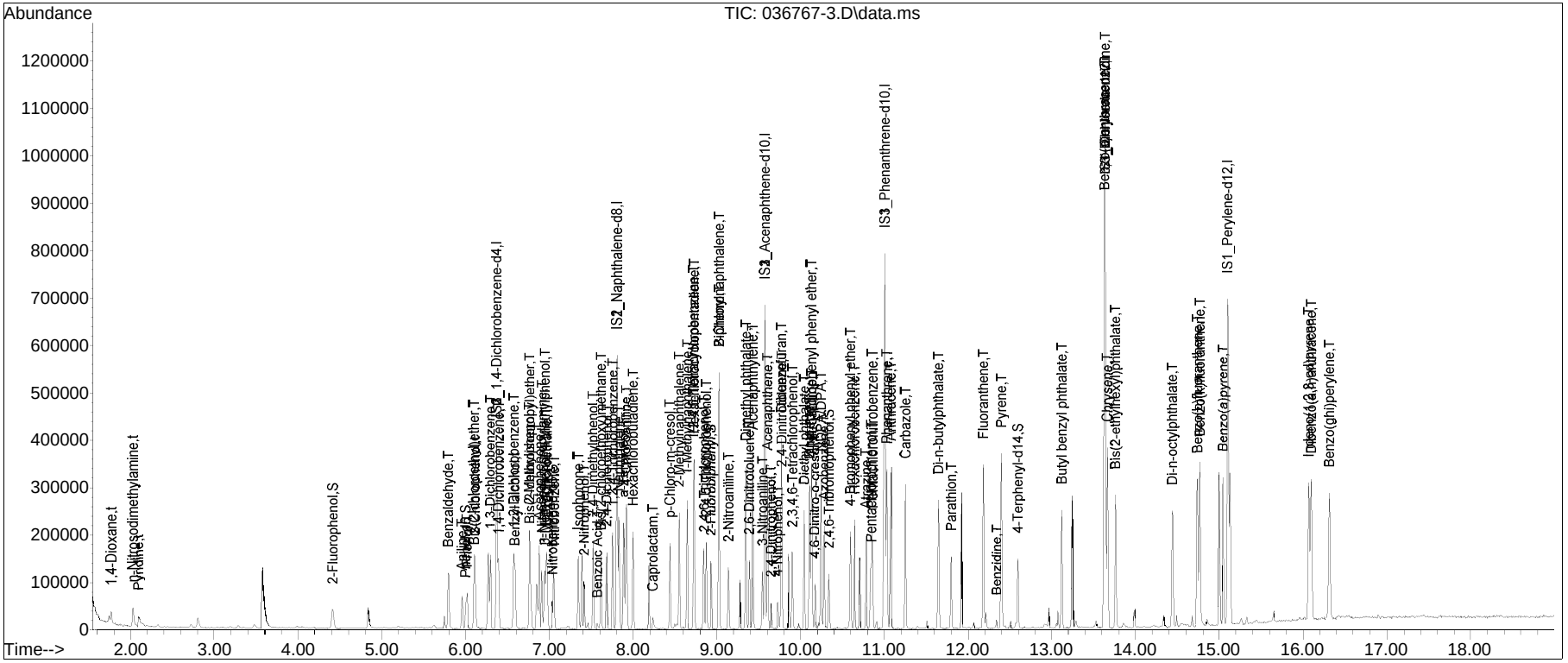
(#) = qualifier out of range (m) = manual integration (+) = signals summed

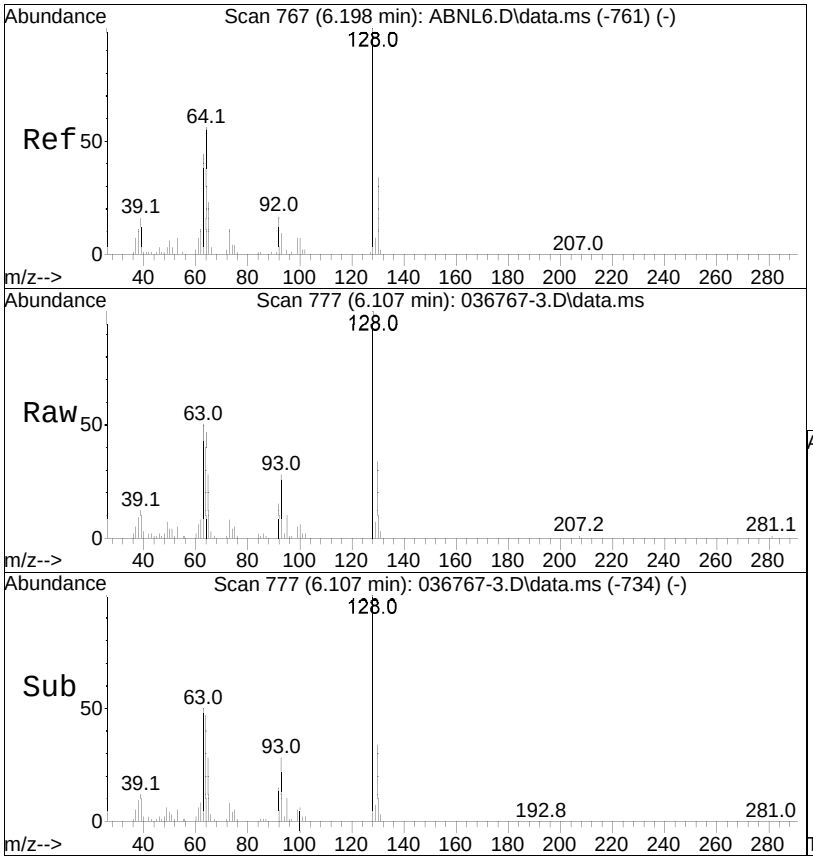
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250305RVT\
Data File : 036767-3.D
Acq On : 5 Mar 2025 2:20 pm
Operator : SV106:smz
Sample : WG2036767-3,32,,gmr
Misc : WG2036963,WG2036767,ical21604
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 14:49:45 2025
Quant Method : I:\8270\SV106\250305RVT\FS241009SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 12:50:57 2025
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90305.D•

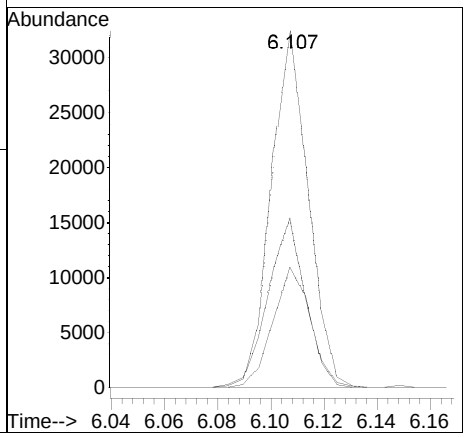


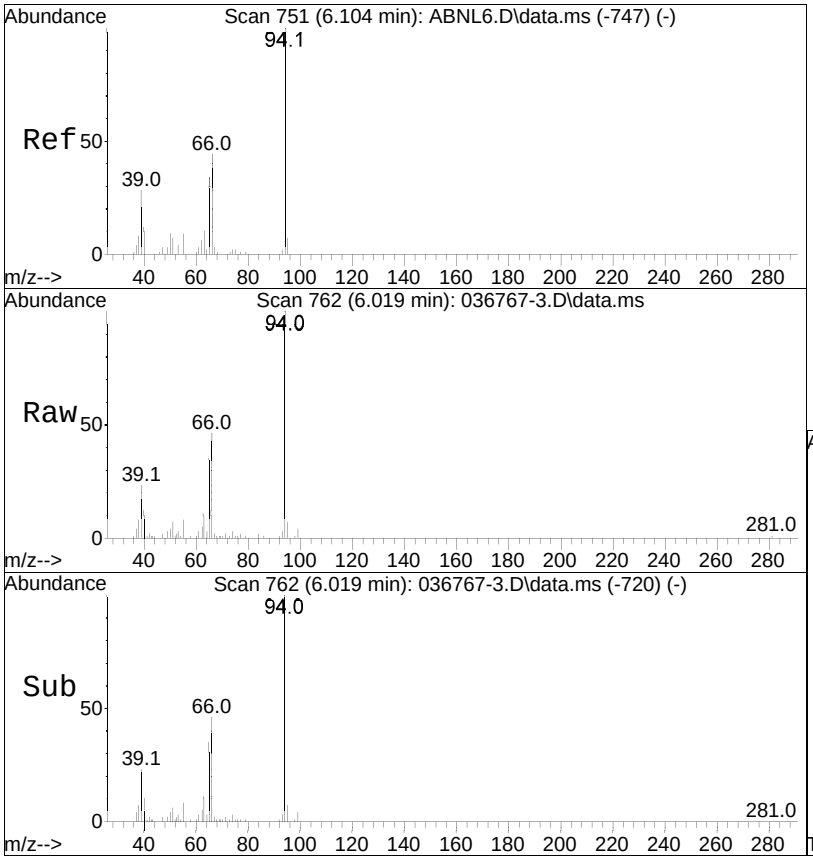


#6
2-Chlorophenol
Concen: 1.51 ug/ml
RT: 6.107 min Scan# 777
Delta R.T. 0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:128 Resp: 31355

Ion	Ratio	Lower	Upper
128	100		
64	48.5	45.1	67.7
130	34.1	26.2	39.4

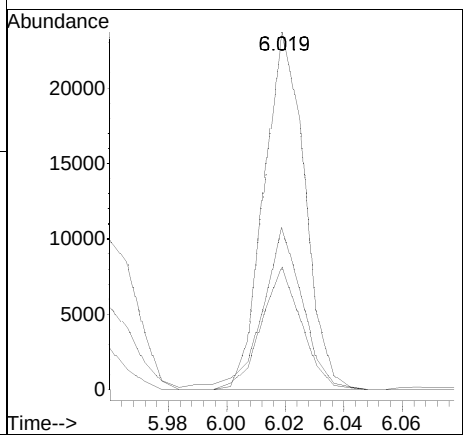


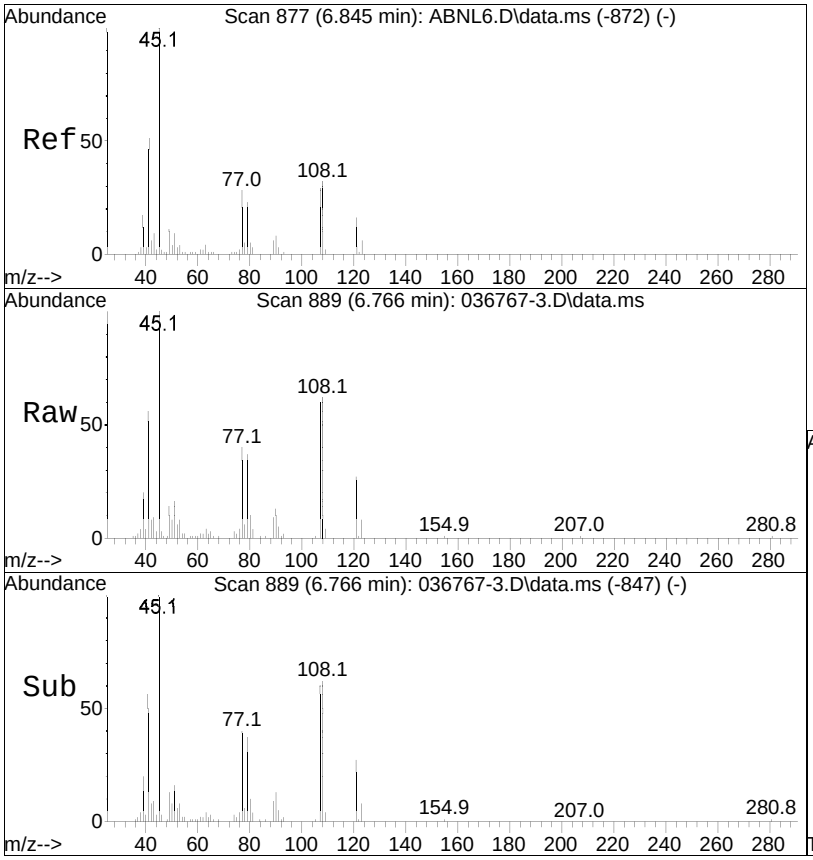


#8
Phenol
Concen: 0.97 ug/ml
RT: 6.019 min Scan# 762
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 94 Resp: 22966

Ion	Ratio	Lower	Upper
94	100		
65	33.9	26.0	39.0
66	44.8	33.8	50.8

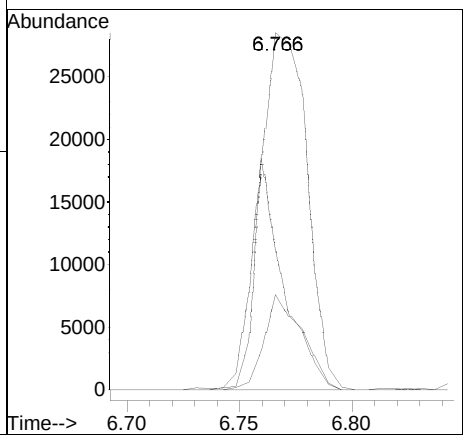


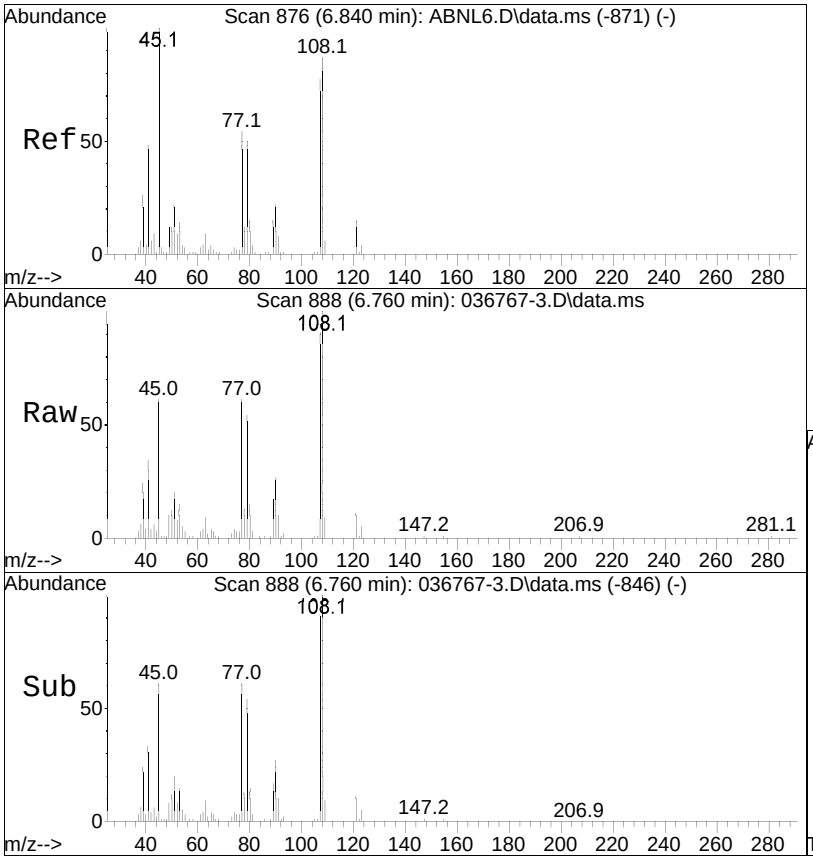


#14
Bis(2-chloroisopropyl)ether
Concen: 1.31 ug/ml
RT: 6.766 min Scan# 889
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 45 Resp: 40217

Ion	Ratio	Lower	Upper
45	100		
121	22.4	9.8	14.6#
77	46.2	6.1	9.1#

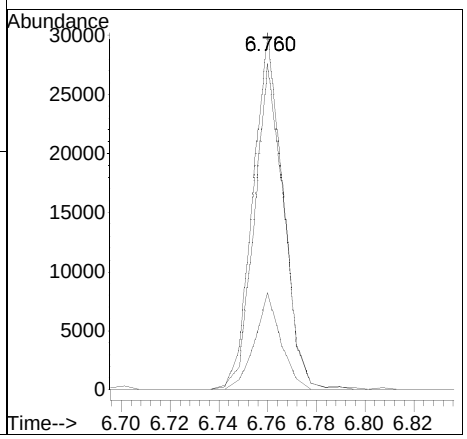


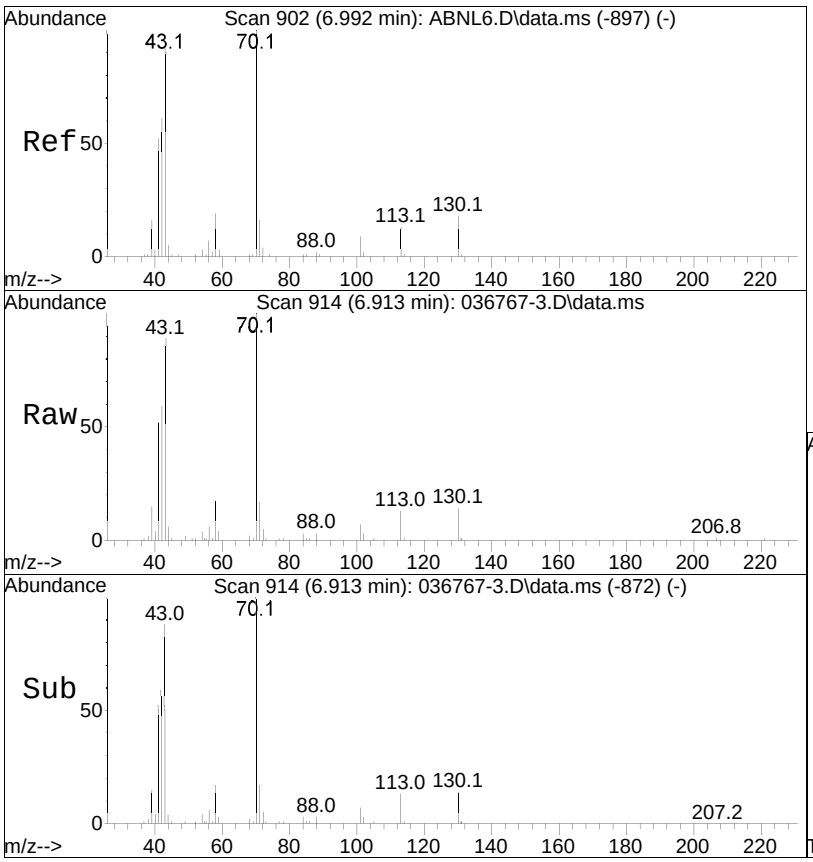


#15
2-Methylphenol
Concen: 1.51 ug/ml
RT: 6.760 min Scan# 888
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:108 Resp: 25845

Ion	Ratio	Lower	Upper
108	100		
107	89.8	70.7	106.1
90	23.5	18.7	28.1

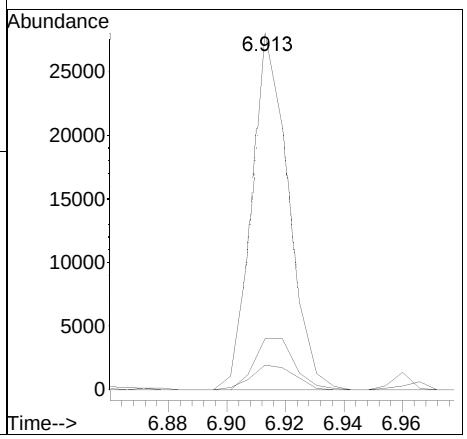


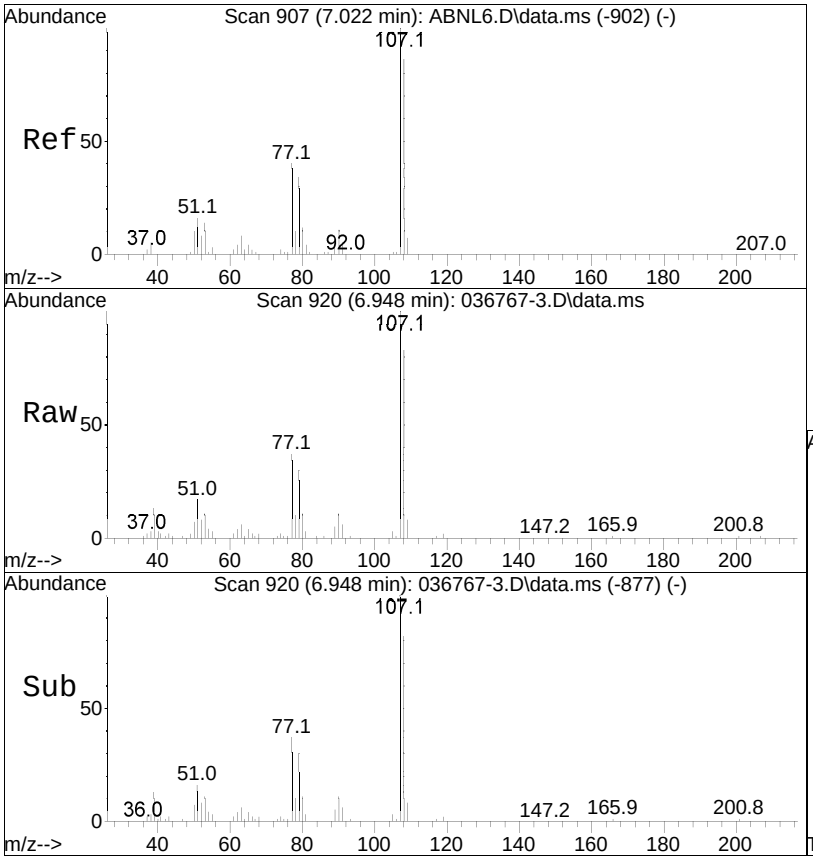


#17
n-Nitrosodi-n-propylamine
Concen: 1.70 ug/ml
RT: 6.913 min Scan# 914
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 70 Resp: 24289

Ion	Ratio	Lower	Upper
70	100		
130	16.0	18.2	27.4#
101	8.3	7.8	11.8

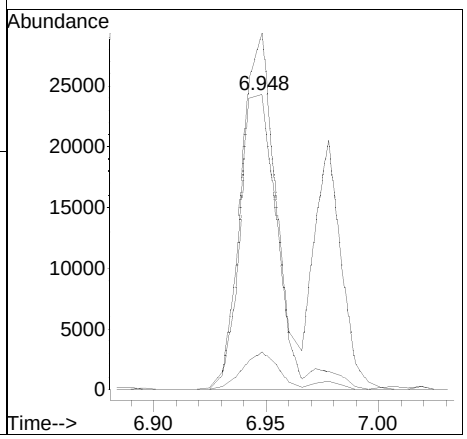


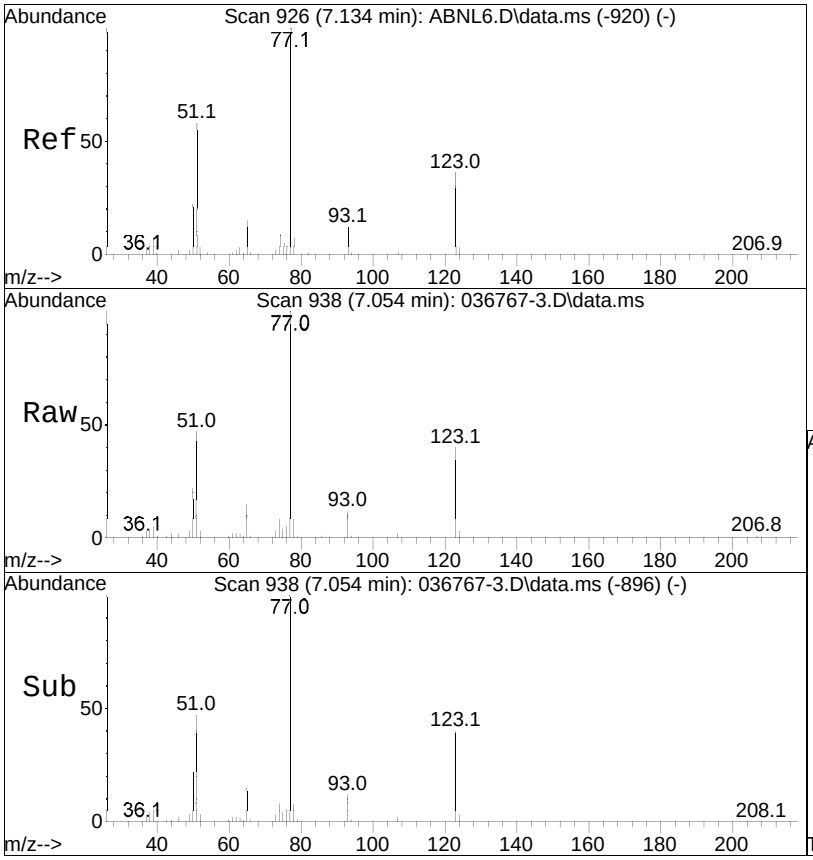


#18
3-Methylphenol/4-Methylphenol
Concen: 1.55 ug/ml
RT: 6.948 min Scan# 920
Delta R.T. 0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:108 Resp: 28870

Ion	Ratio	Lower	Upper
108	100		
107	110.8	88.6	132.8
90	11.8	8.8	13.2

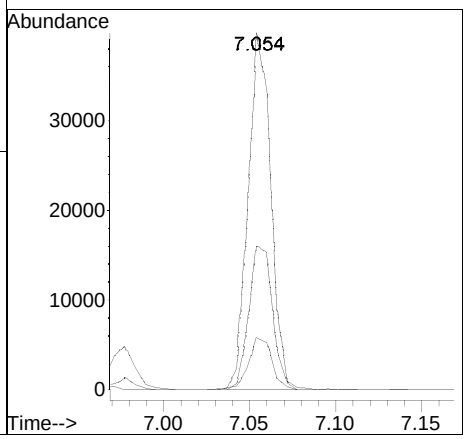


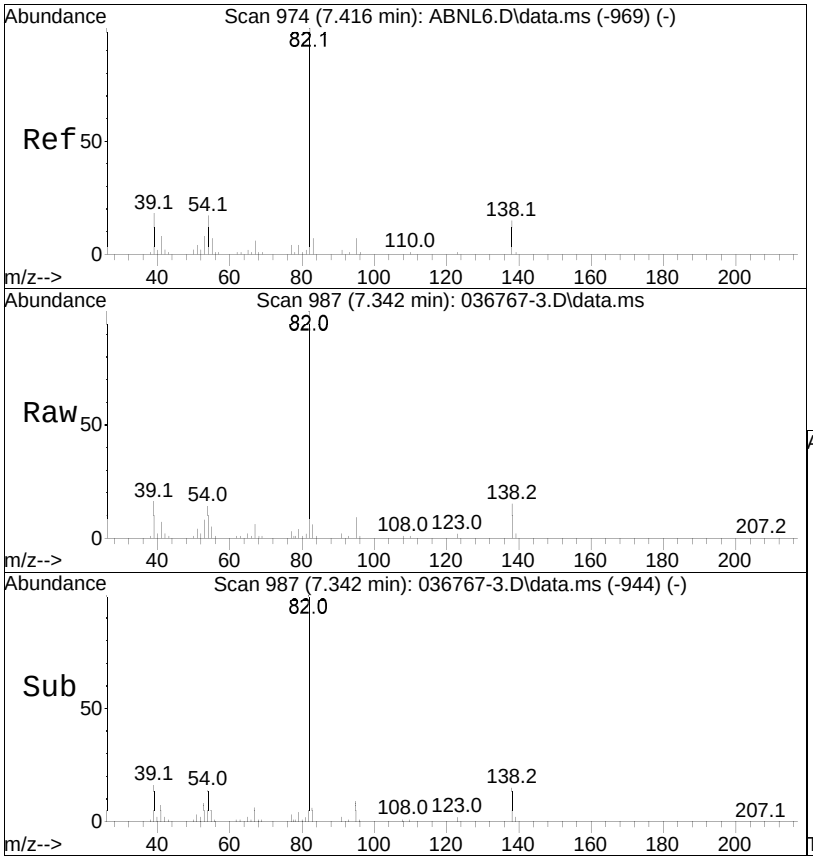


#20
Nitrobenzene
Concen: 1.72 ug/ml
RT: 7.054 min Scan# 938
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 77 Resp: 36385

Ion	Ratio	Lower	Upper
77	100		
123	41.9	36.3	54.5
65	15.2	11.6	17.4

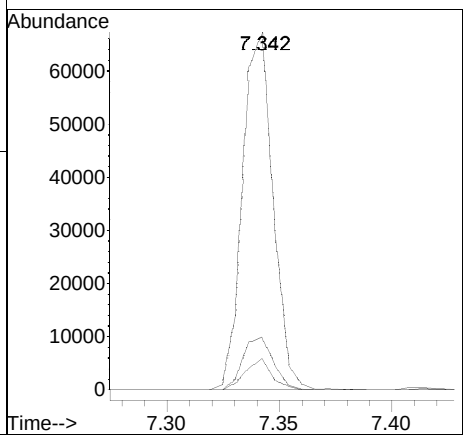


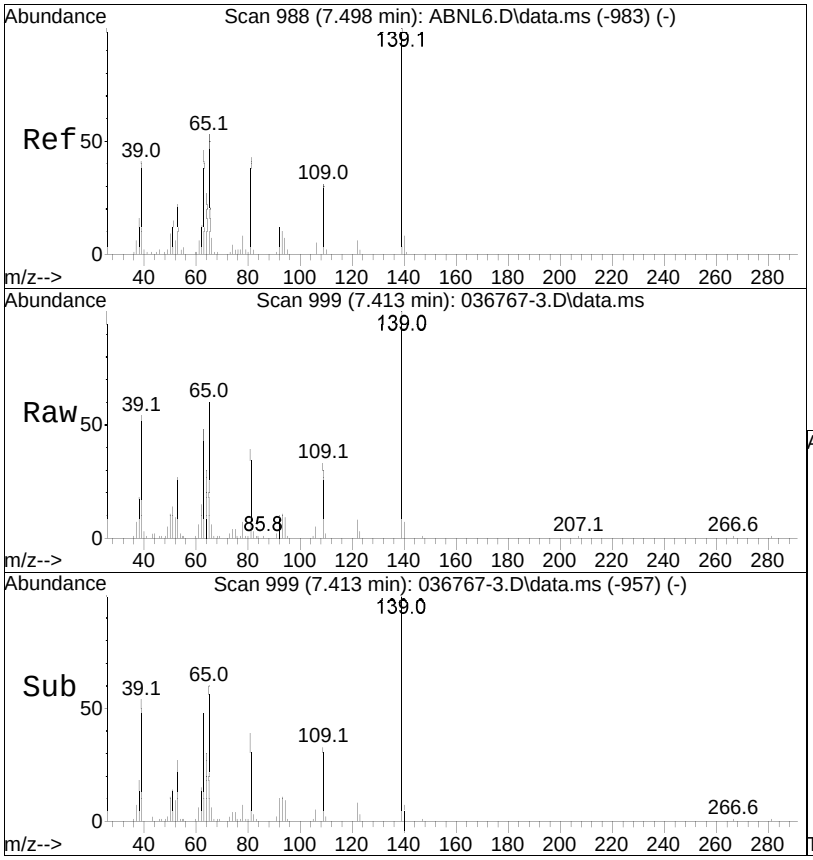


#21
Isophorone
Concen: 1.70 ug/ml
RT: 7.342 min Scan# 987
Delta R.T. 0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 82 Resp: 62625

Ion	Ratio	Lower	Upper
82	100		
138	14.8	14.7	22.1
95	7.7	5.2	7.8

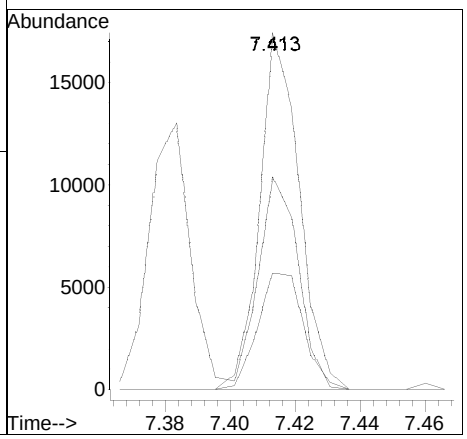


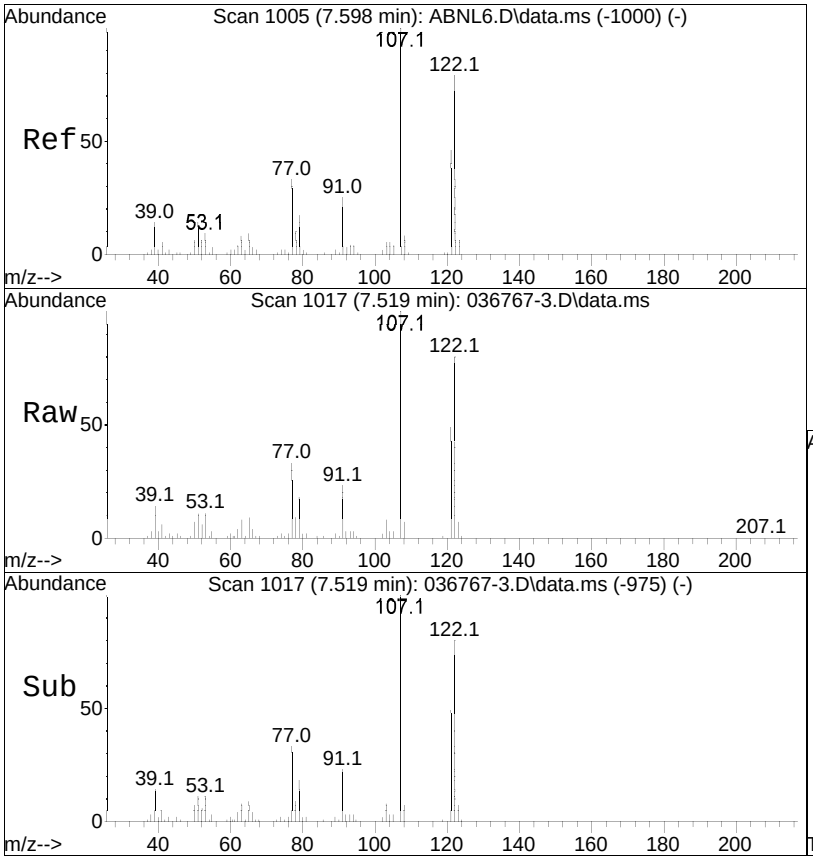


#22
2-Nitrophenol
Concen: 1.35 ug/ml
RT: 7.413 min Scan# 999
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:139 Resp: 14709

Ion	Ratio	Lower	Upper
139	100		
109	38.0	19.4	29.0#
65	60.0	46.1	69.1

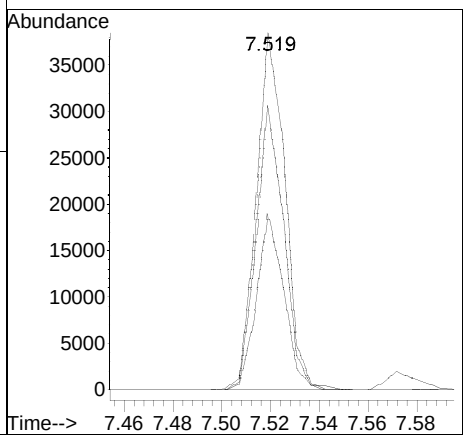


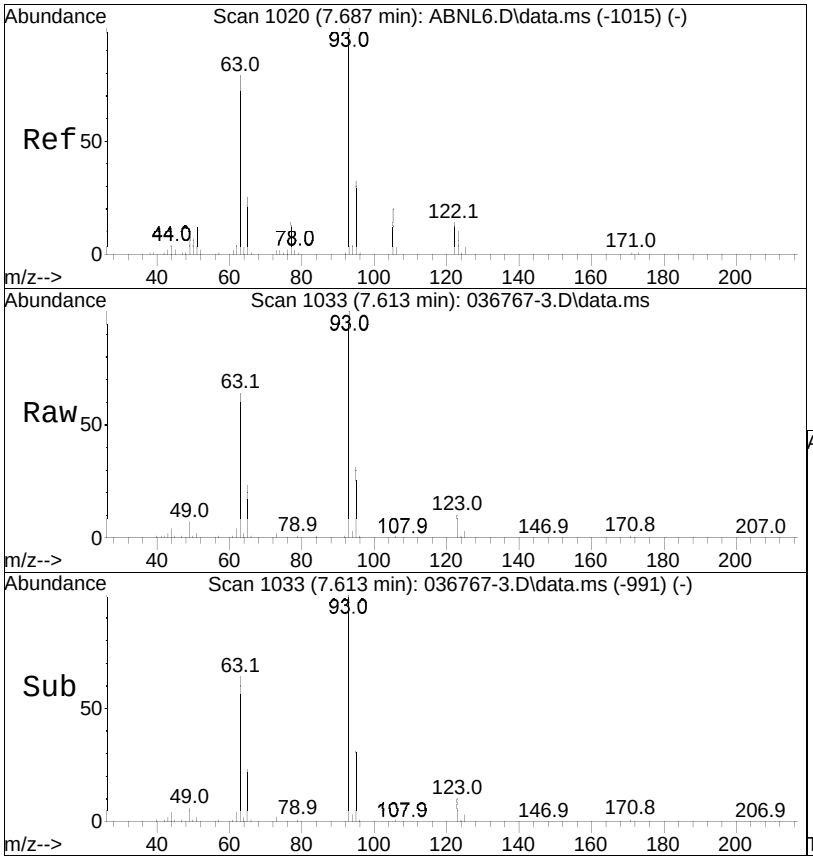


#23
2,4-Dimethylphenol
Concen: 1.82 ug/ml
RT: 7.519 min Scan# 1017
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:107 Resp: 31090

Ion	Ratio	Lower	Upper
107	100		
121	47.3	40.0	60.0
122	77.3	70.2	105.4

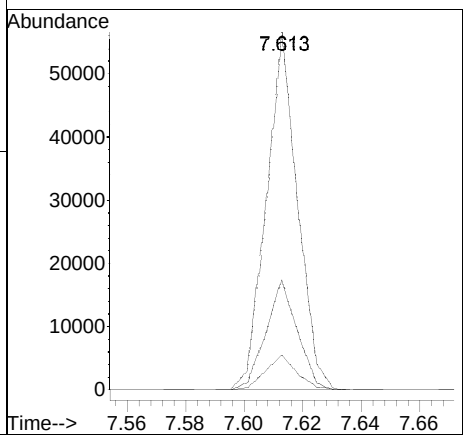


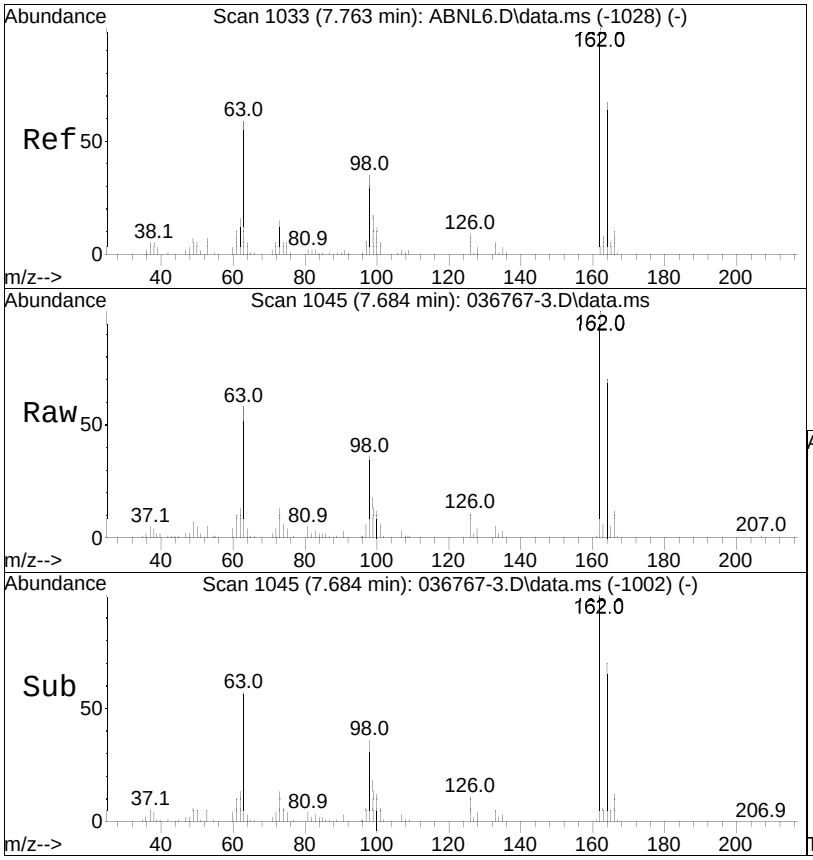


#24
Bis(2-chloroethoxy)methane
Concen: 1.68 ug/ml
RT: 7.613 min Scan# 1033
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 93 Resp: 41266

Ion	Ratio	Lower	Upper
93	100		
95	31.1	25.8	38.8
123	10.1	10.1	15.1

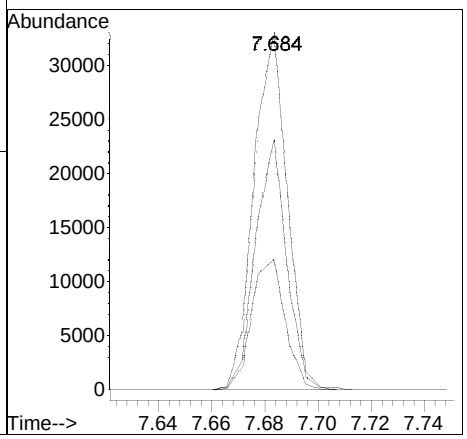


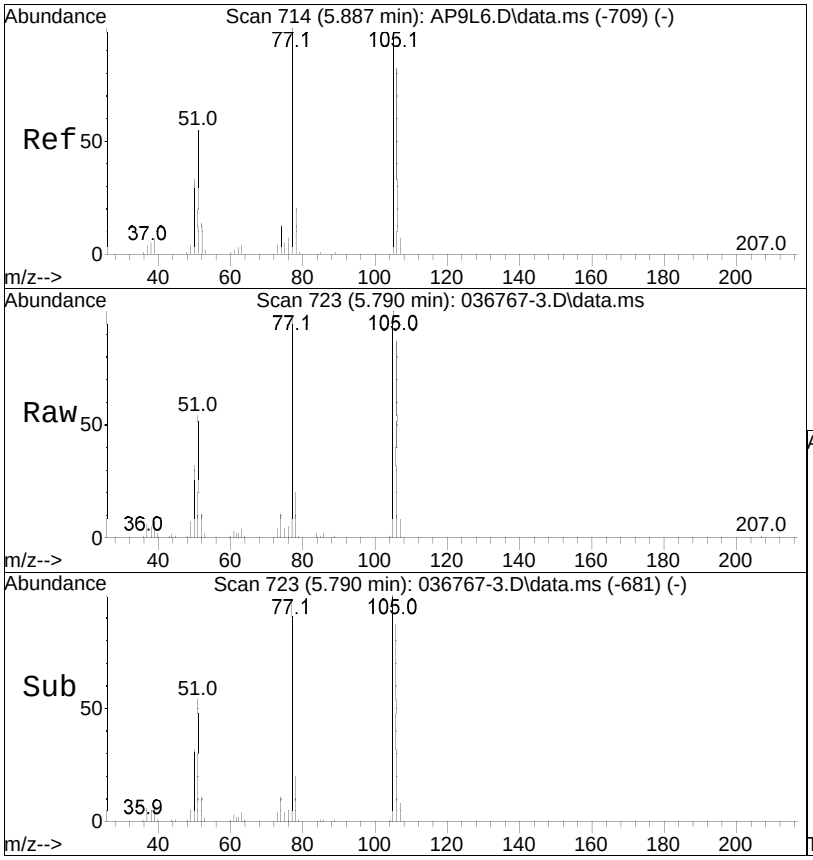


#25
2,4-Dichlorophenol
Concen: 1.50 ug/ml
RT: 7.684 min Scan# 1045
Delta R.T. 0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:162 Resp: 28596

Ion	Ratio	Lower	Upper
162	100		
164	65.4	51.0	76.4
98	37.0	32.2	48.2

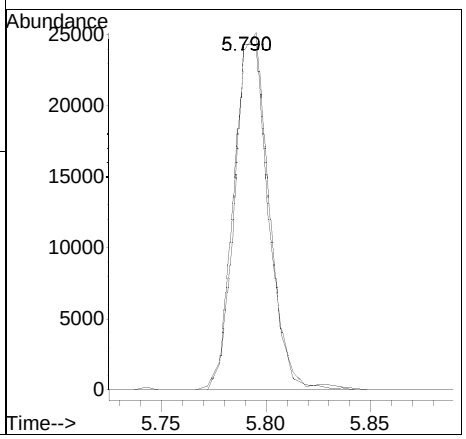


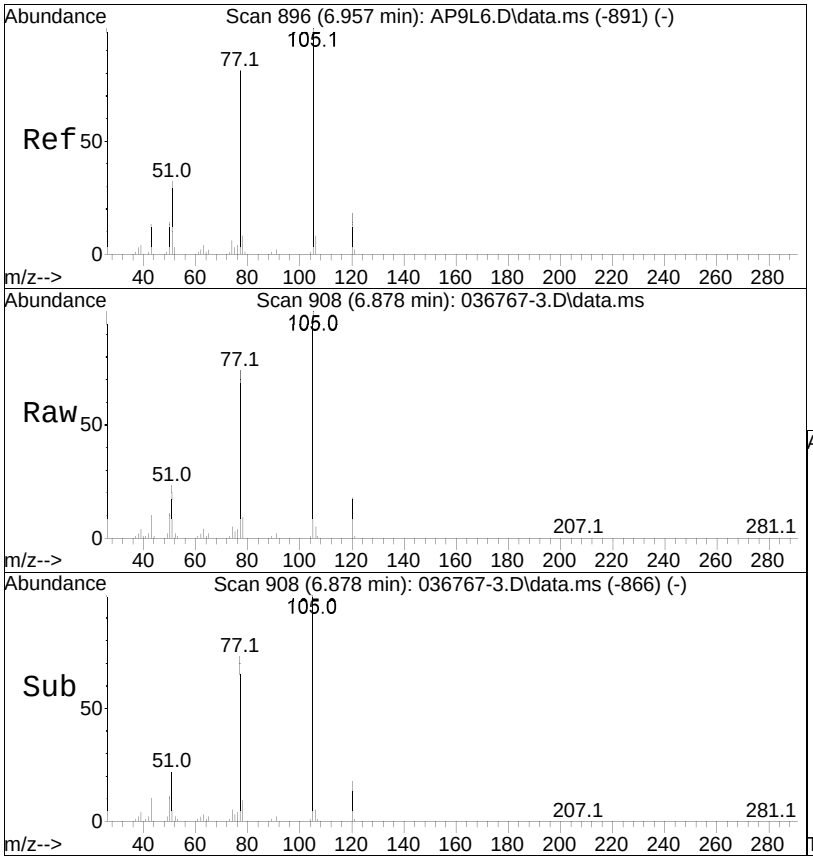


#28
Benzaldehyde
Concen: 1.90 ug/ml
RT: 5.790 min Scan# 723
Delta R.T. -0.000 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:105 Resp: 27479

Ion	Ratio	Lower	Upper
105	100		
77	106.3	82.2	123.4

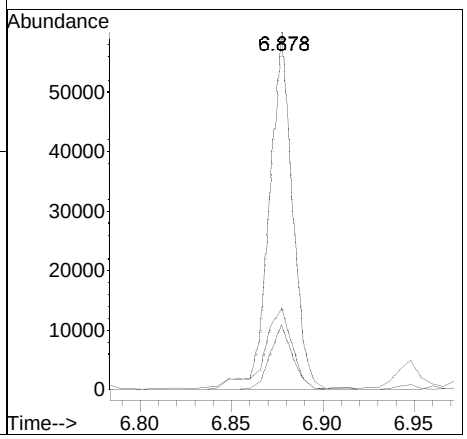


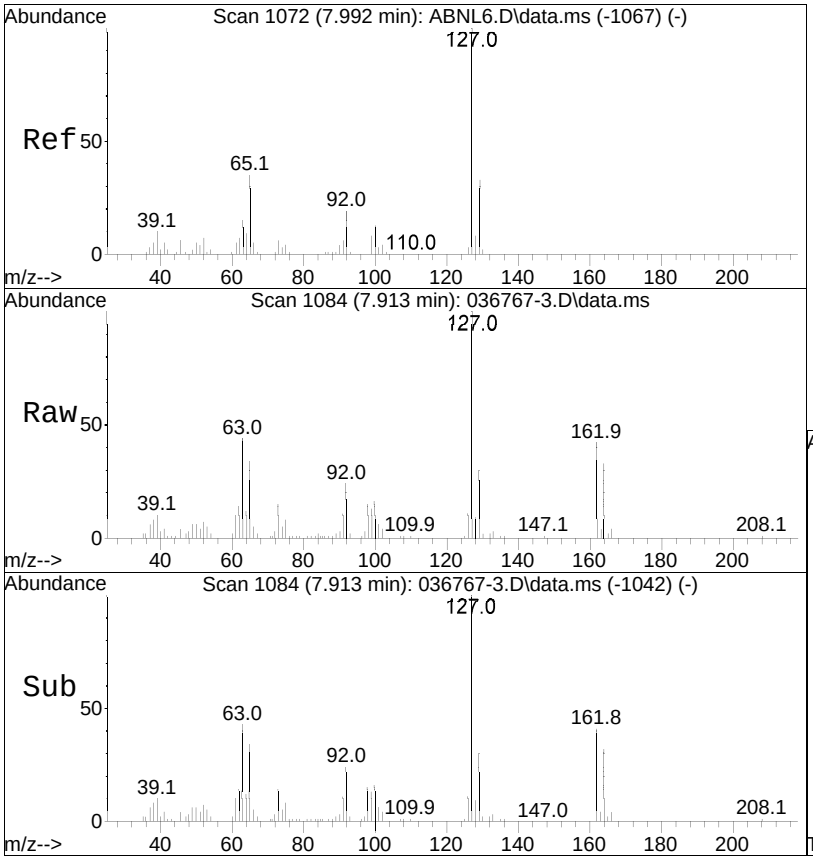


#29
Acetophenone
Concen: 1.89 ug/ml
RT: 6.878 min Scan# 908
Delta R.T. -0.000 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:105 Resp: 52582

Ion	Ratio	Lower	Upper
105	100		
120	17.5	20.5	30.7#
51	29.3	34.9	52.3#

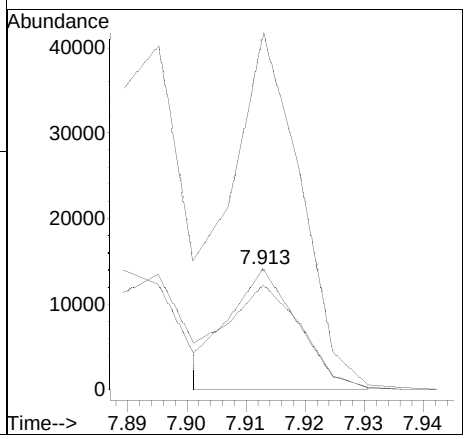


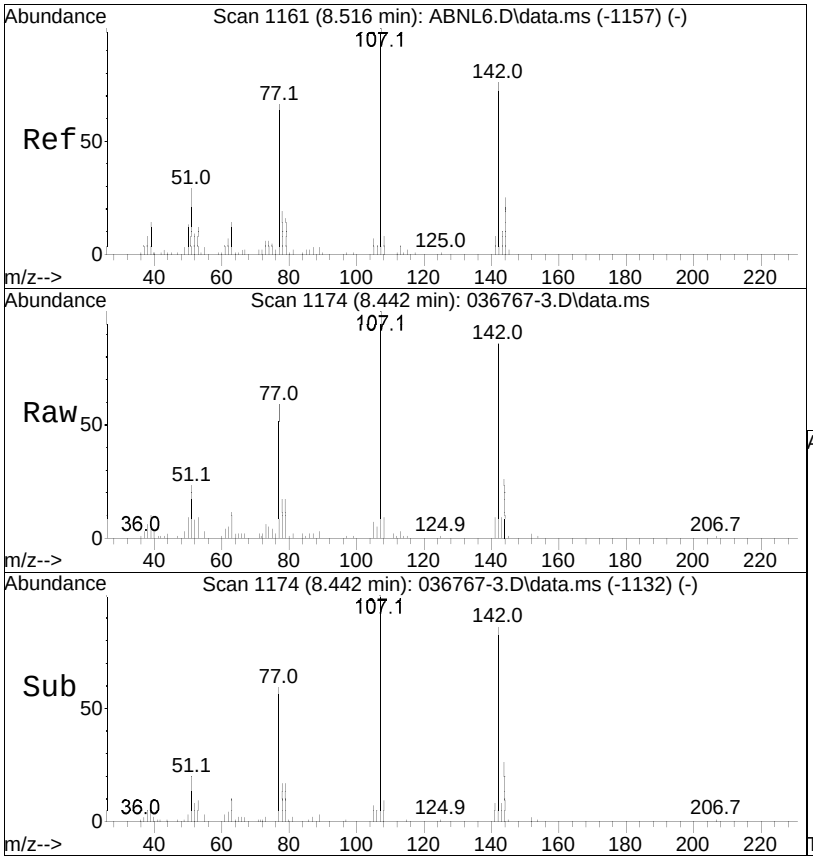


#38
4-Chloroaniline
Concen: 1.48 ug/ml M3
RT: 7.913 min Scan# 1084
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 65 Resp: 11244

Ion	Ratio	Lower	Upper
65	100		
127	313.4	237.6	356.4
129	104.9	76.3	114.5

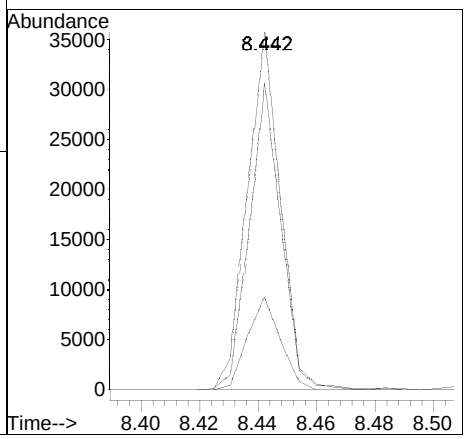


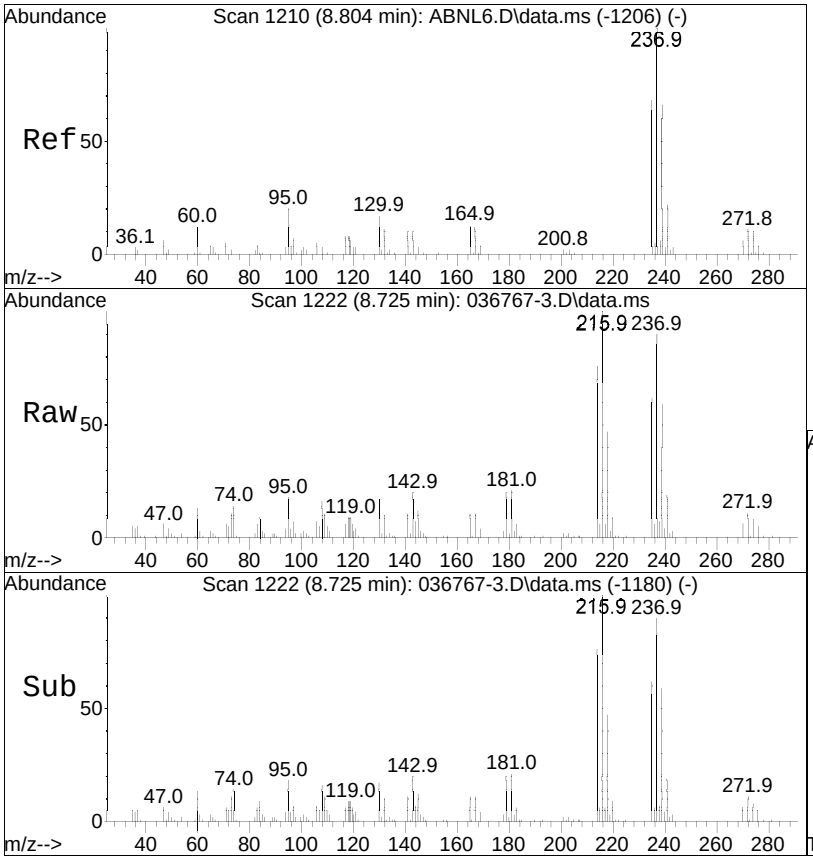


#40
p-Chloro-m-cresol
Concen: 1.57 ug/ml
RT: 8.442 min Scan# 1174
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:107 Resp: 27893

Ion	Ratio	Lower	Upper
107	100		
144	25.8	20.9	31.3
142	82.4	66.1	99.1

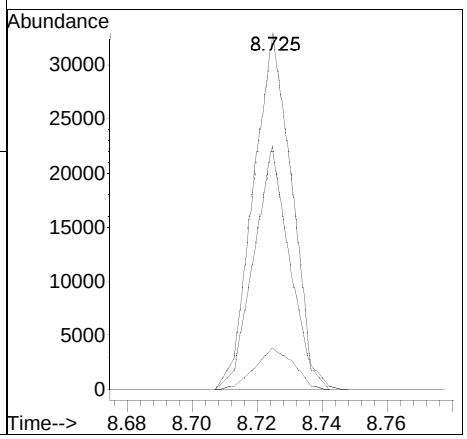


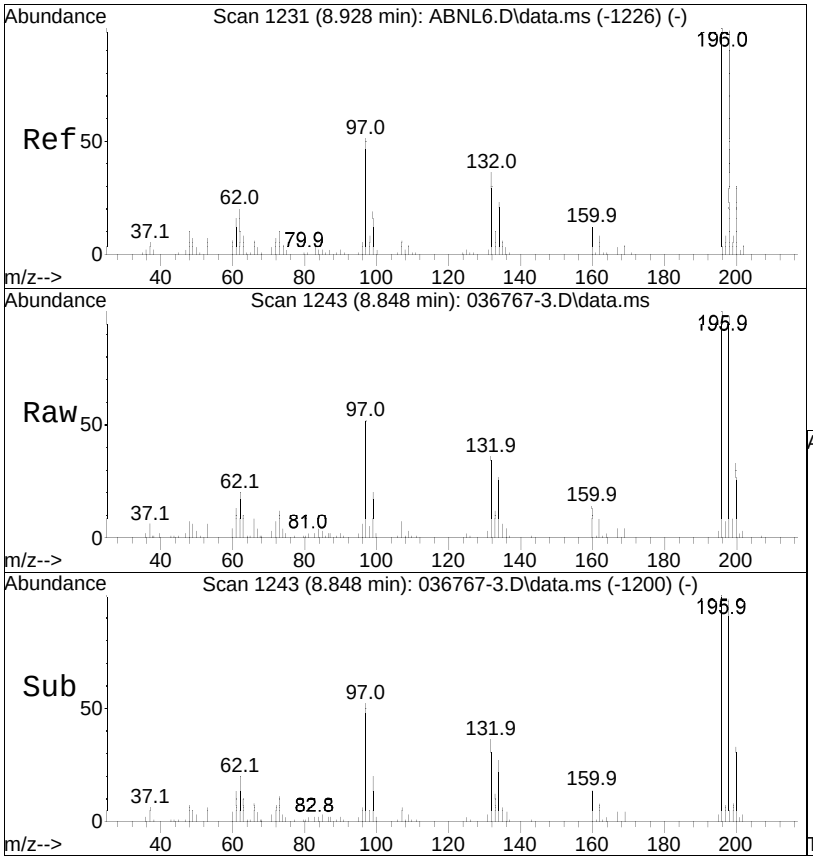


#43
Hexachlorocyclopentadiene
Concen: 1.72 ug/ml
RT: 8.725 min Scan# 1222
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:237 Resp: 27041

Ion	Ratio	Lower	Upper
237	100		
235	64.0	49.7	74.5
272	11.9	9.8	14.6

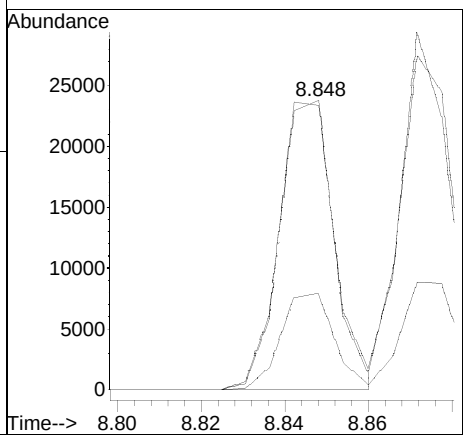


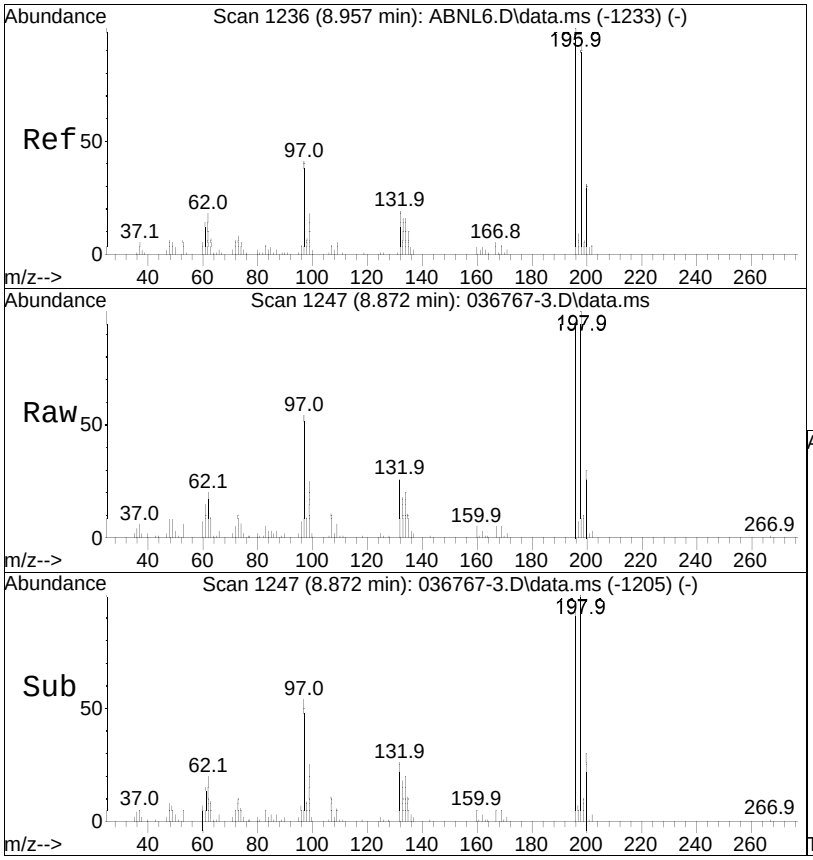


#44
2,4,6-Trichlorophenol
Concen: 1.30 ug/ml
RT: 8.848 min Scan# 1243
Delta R.T. 0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:196 Resp: 21476

Ion	Ratio	Lower	Upper
196	100		
198	101.1	77.5	116.3
200	33.0	23.8	35.6

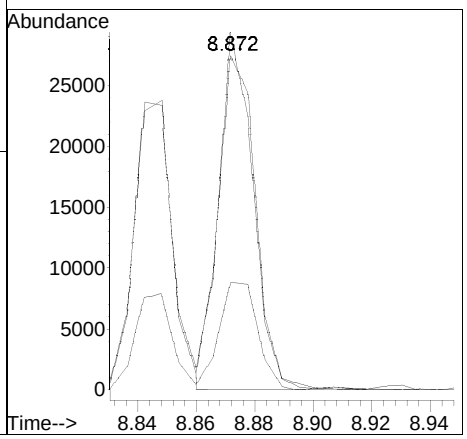


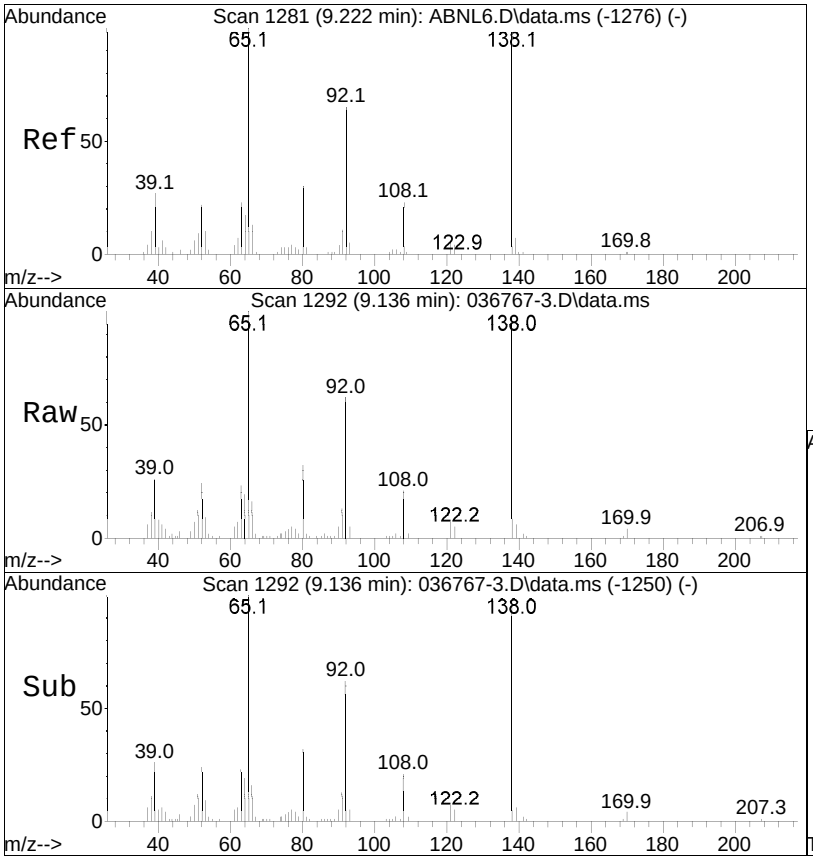


#45
2,4,5-Trichlorophenol
Concen: 1.43 ug/ml
RT: 8.872 min Scan# 1247
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:196 Resp: 24340

Ion	Ratio	Lower	Upper
196	100		
200	33.3	25.4	38.0
198	98.7	78.0	117.0

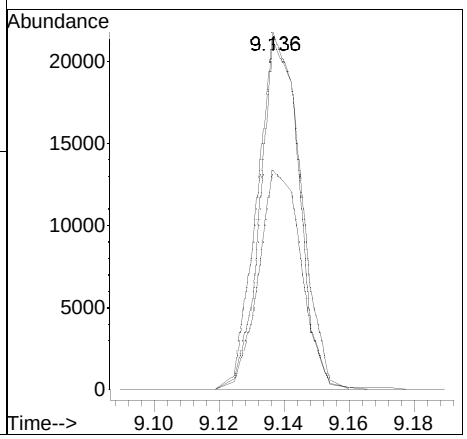


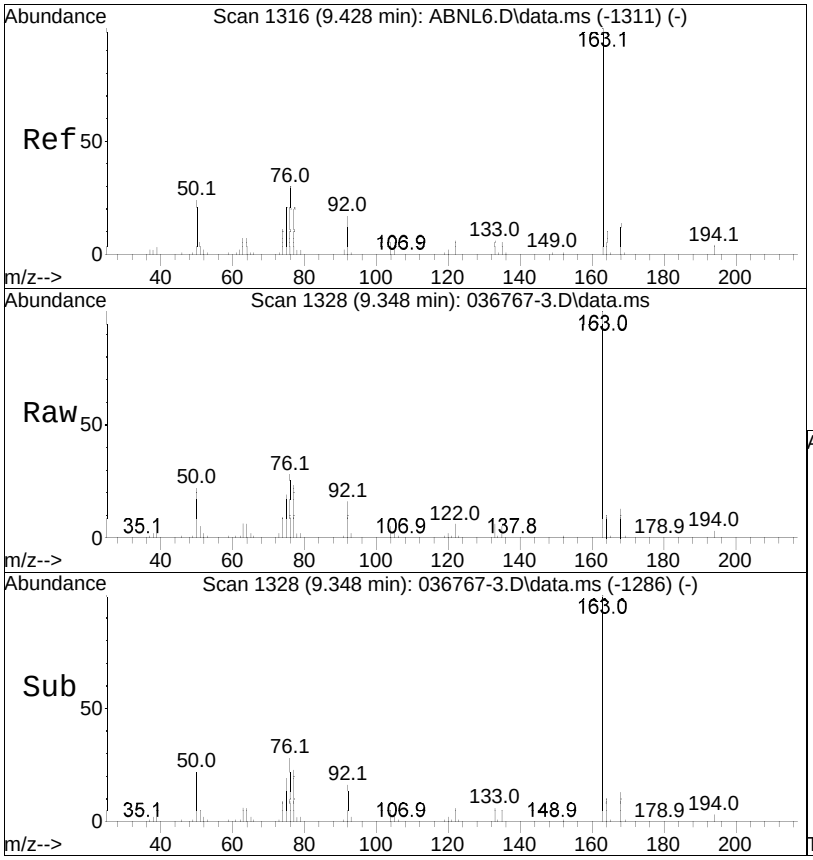


#48
2-Nitroaniline
Concen: 1.39 ug/ml
RT: 9.136 min Scan# 1292
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:138 Resp: 18538

Ion	Ratio	Lower	Upper
138	100		
92	65.3	53.5	80.3
65	103.7	86.3	129.5

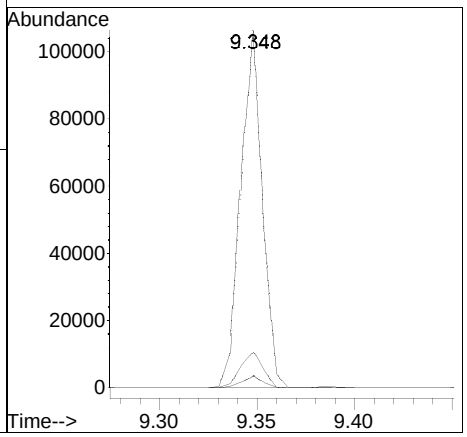


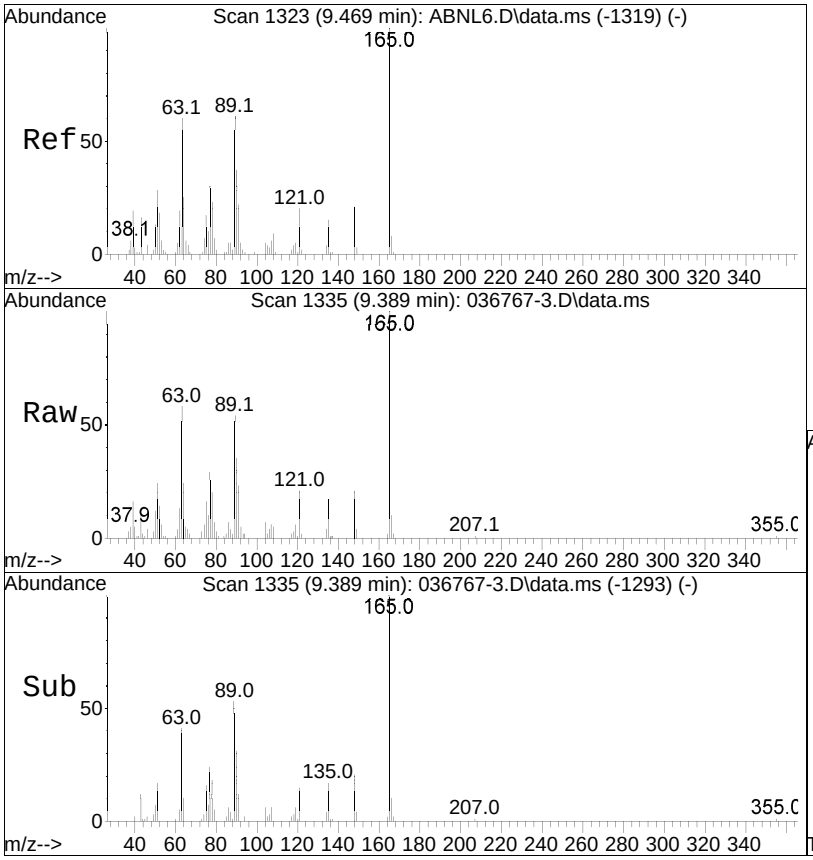


#51
Dimethyl phthalate
Concen: 1.48 ug/ml
RT: 9.348 min Scan# 1328
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:163 Resp: 80914

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.6	7.9	11.9

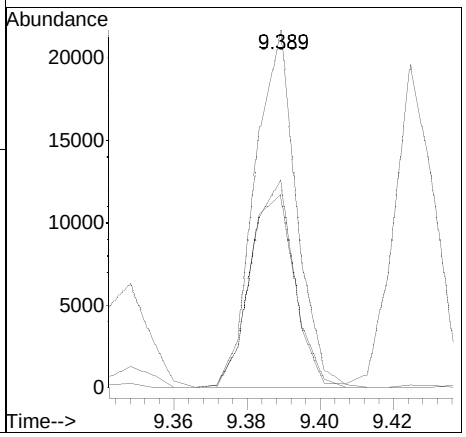


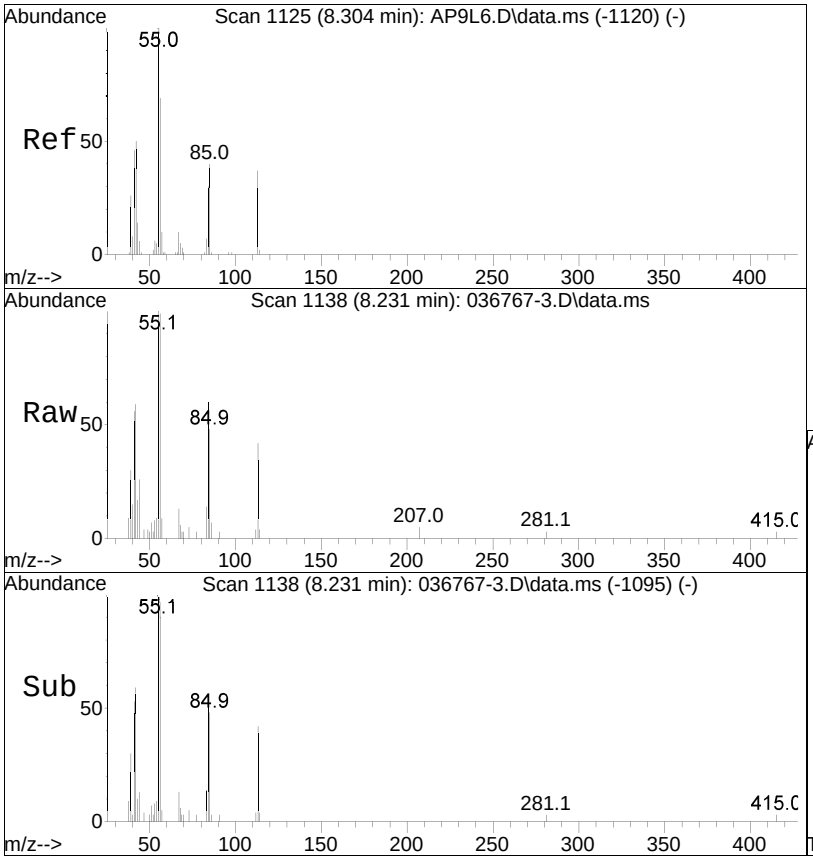


#53
2,6-Dinitrotoluene
Concen: 1.55 ug/ml
RT: 9.389 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:165 Resp: 17235

Ion	Ratio	Lower	Upper
165	100		
89	59.2	54.2	81.2
63	60.2	64.2	96.2#

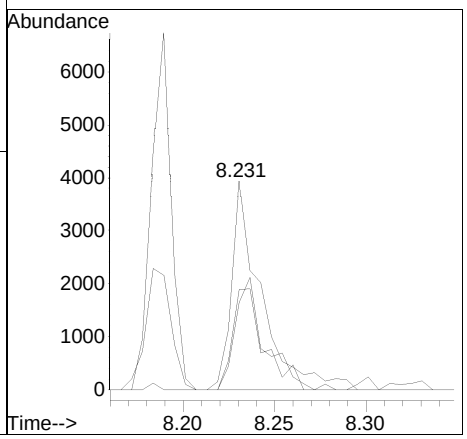


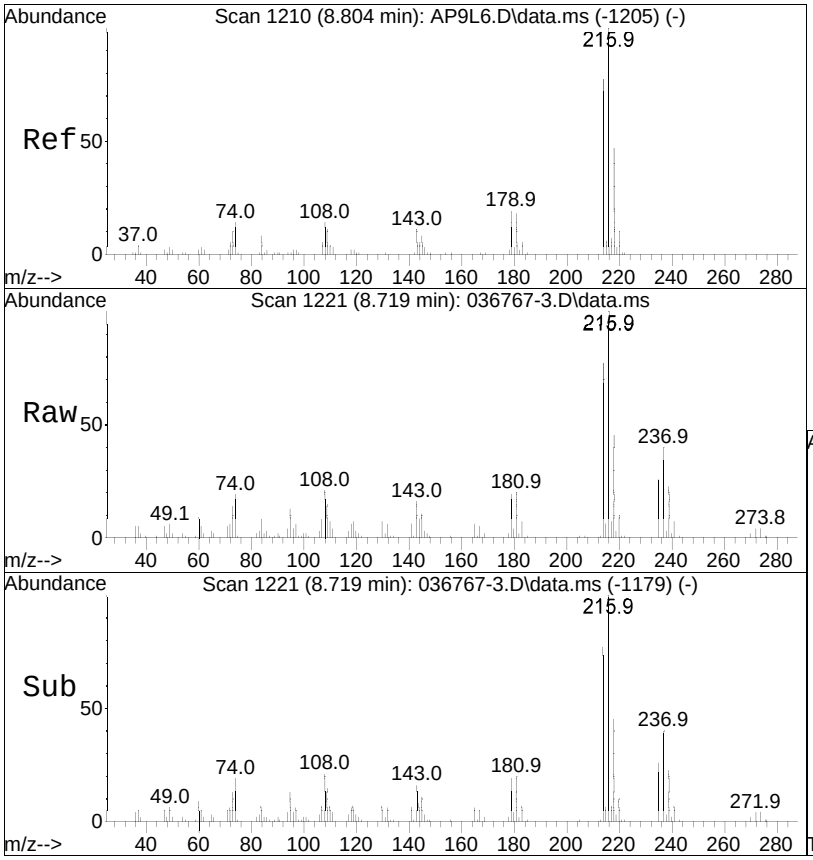


#60
Caprolactam
Concen: 0.51 ug/ml
RT: 8.231 min Scan# 1138
Delta R.T. 0.006 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 55 Resp: 4443

Ion	Ratio	Lower	Upper
55	100		
85	51.5	19.8	29.6#
113	52.8	29.6	44.4#

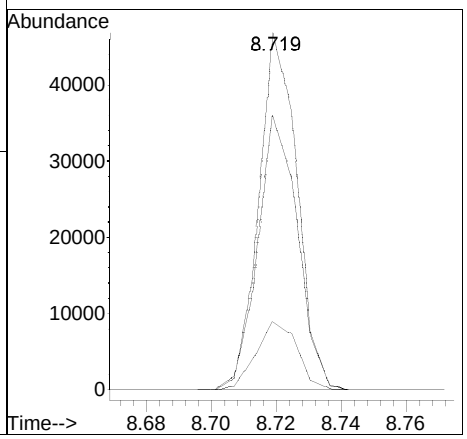


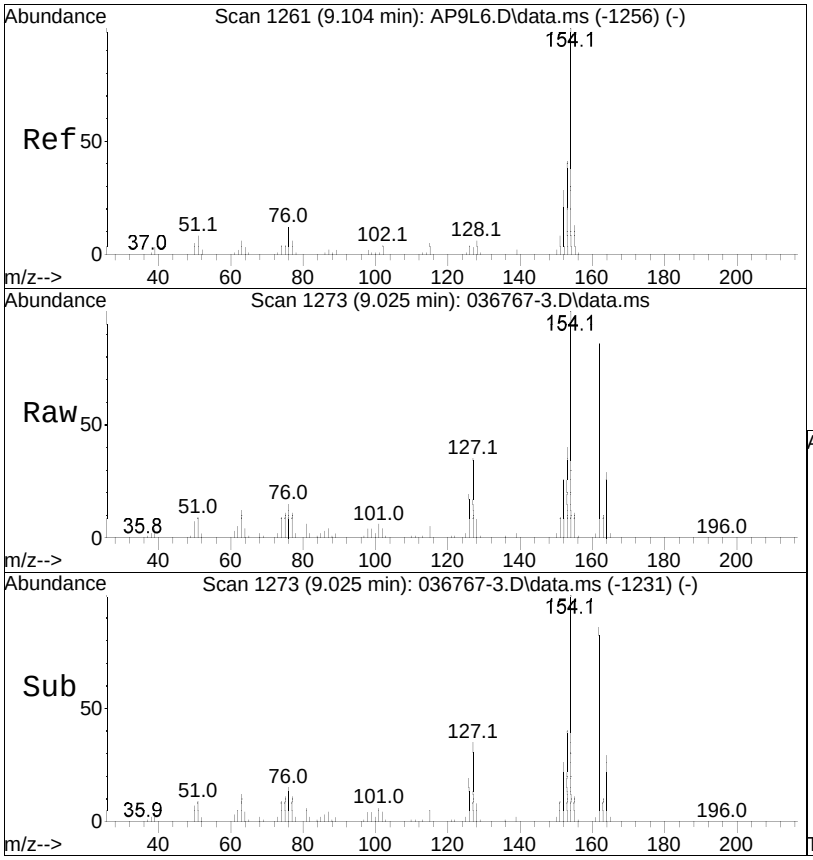


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.58 ug/ml
RT: 8.719 min Scan# 1221
Delta R.T. -0.000 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:216 Resp: 38003

Ion	Ratio	Lower	Upper
216	100		
214	80.1	63.7	95.5
179	20.7	19.0	28.6

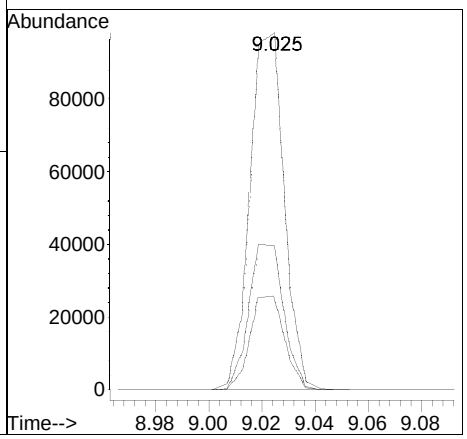


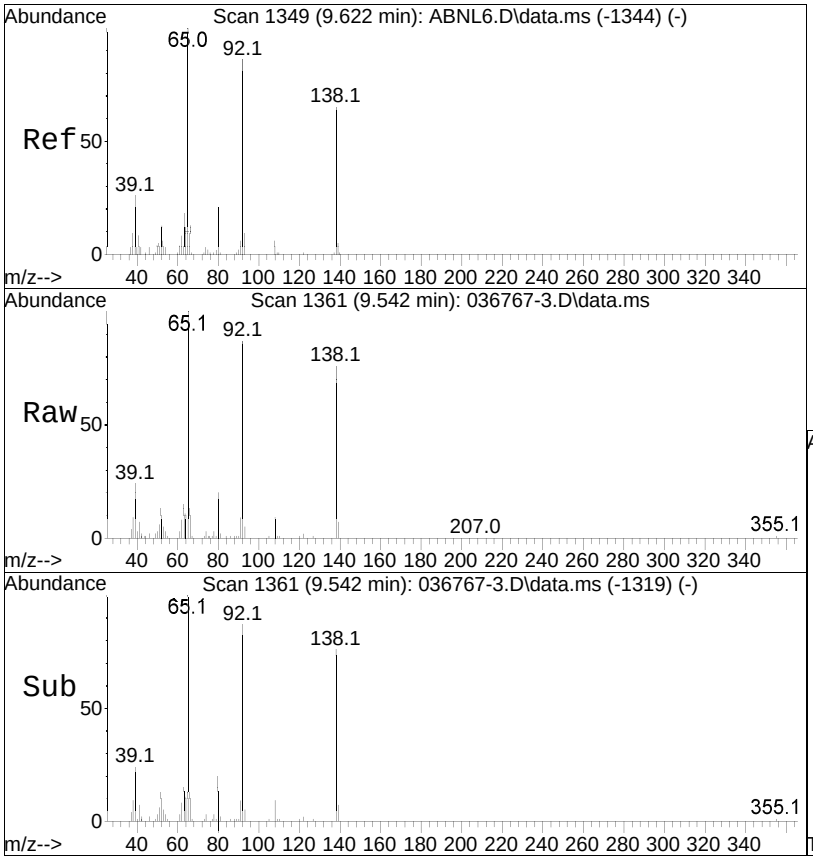


#62
Biphenyl
Concen: 1.61 ug/ml
RT: 9.025 min Scan# 1273
Delta R.T. -0.000 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:154 Resp: 87592

Ion	Ratio	Lower	Upper
154	100		
153	41.5	32.3	48.5
152	26.7	22.5	33.7

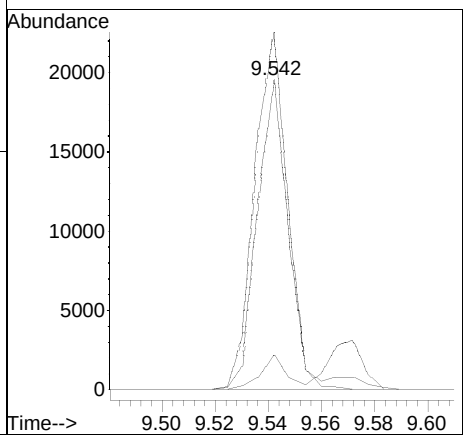


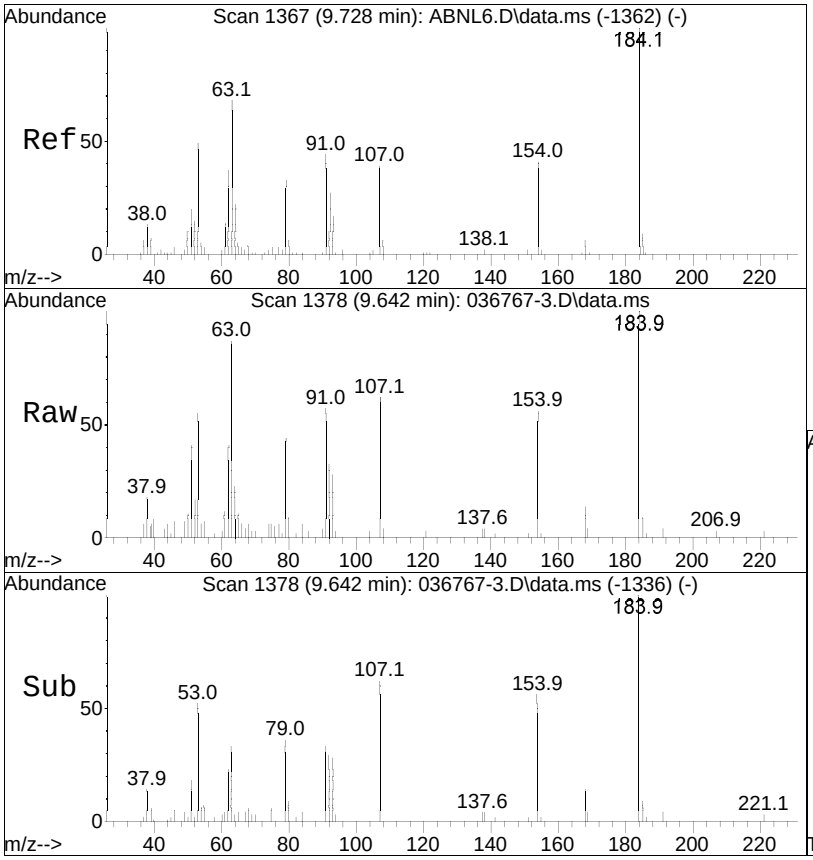


#64
3-Nitroaniline
Concen: 1.42 ug/ml
RT: 9.542 min Scan# 1361
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:138 Resp: 15514

Ion	Ratio	Lower	Upper
138	100		
92	128.3	93.4	140.2
108	9.6	9.5	14.3

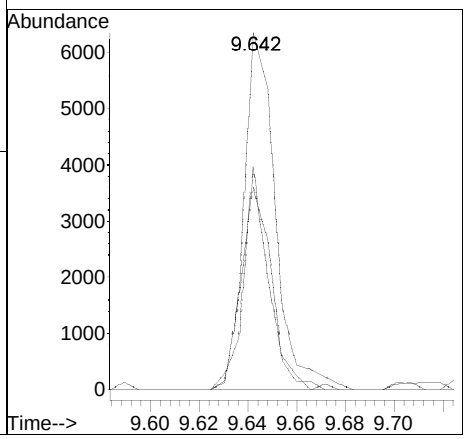


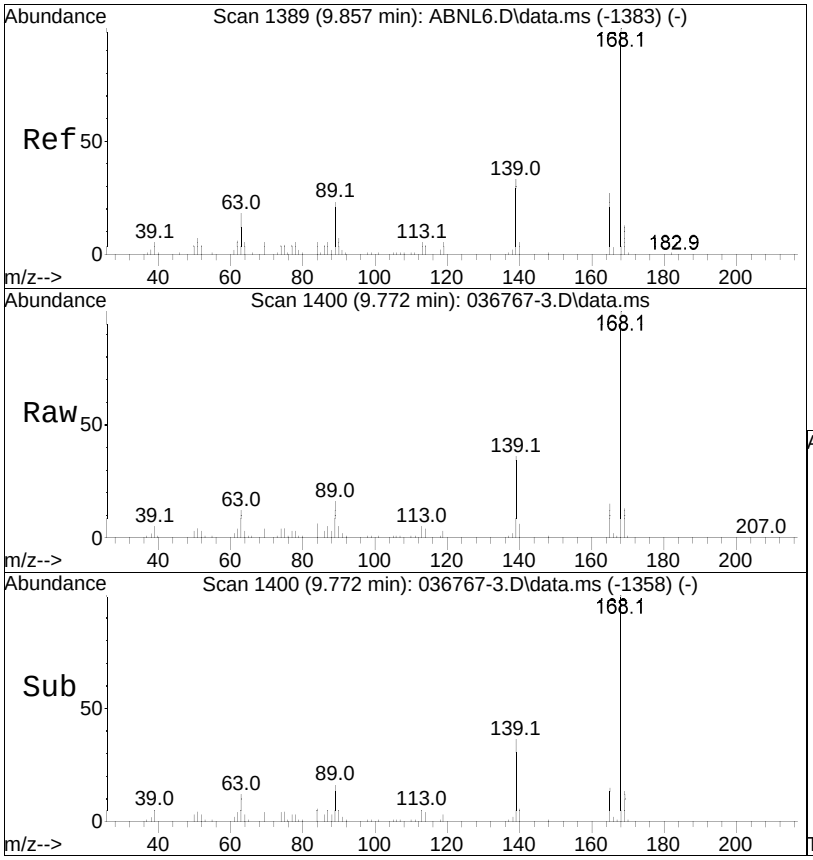


#66
2,4-Dinitrophenol
Concen: 1.85 ug/ml
RT: 9.642 min Scan# 1378
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:184 Resp: 5659

Ion	Ratio	Lower	Upper
184	100		
107	50.6	37.7	56.5
91	55.2	46.3	69.5

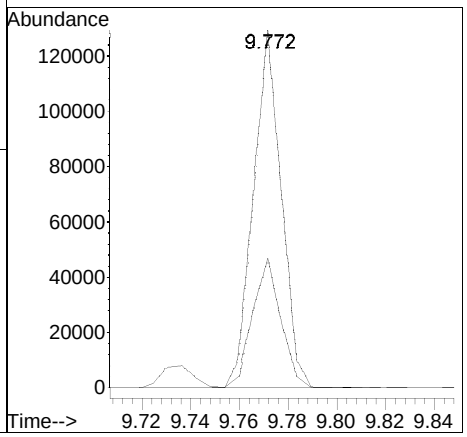


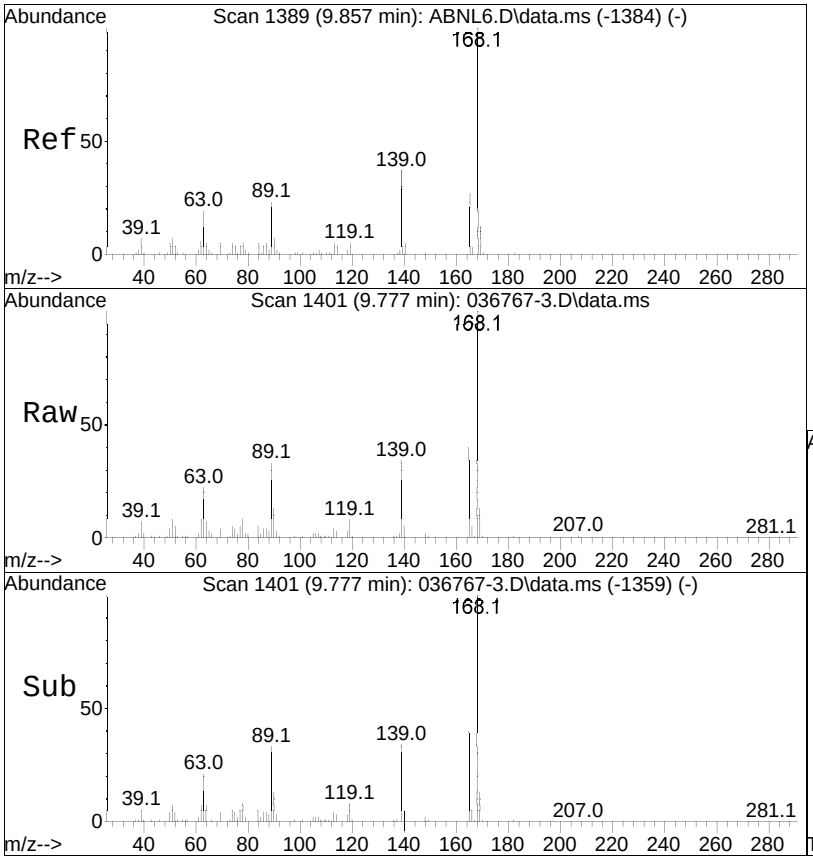


#67
Dibenzofuran
Concen: 1.60 ug/ml
RT: 9.772 min Scan# 1400
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:168 Resp: 101485

Ion	Ratio	Lower	Upper
168	100		
139	36.7	31.4	47.2

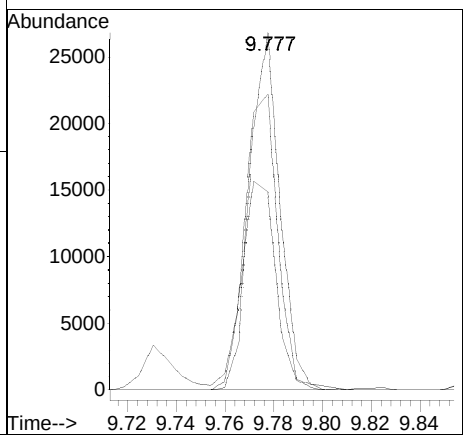


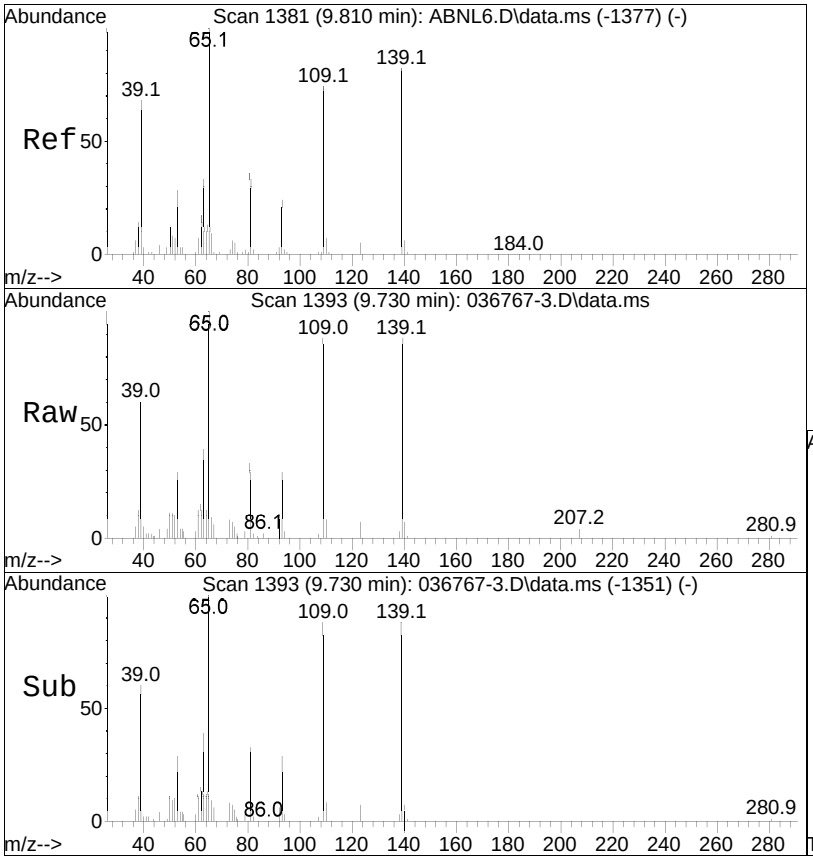


#68
2,4-Dinitrotoluene
Concen: 1.62 ug/ml
RT: 9.777 min Scan# 1401
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:165 Resp: 22962

Ion	Ratio	Lower	Upper
165	100		
89	89.8	72.0	108.0
63	66.2	52.7	79.1

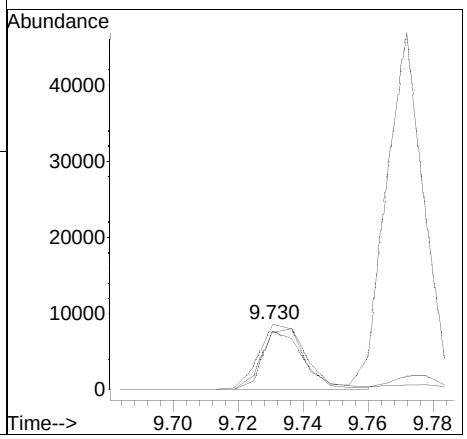


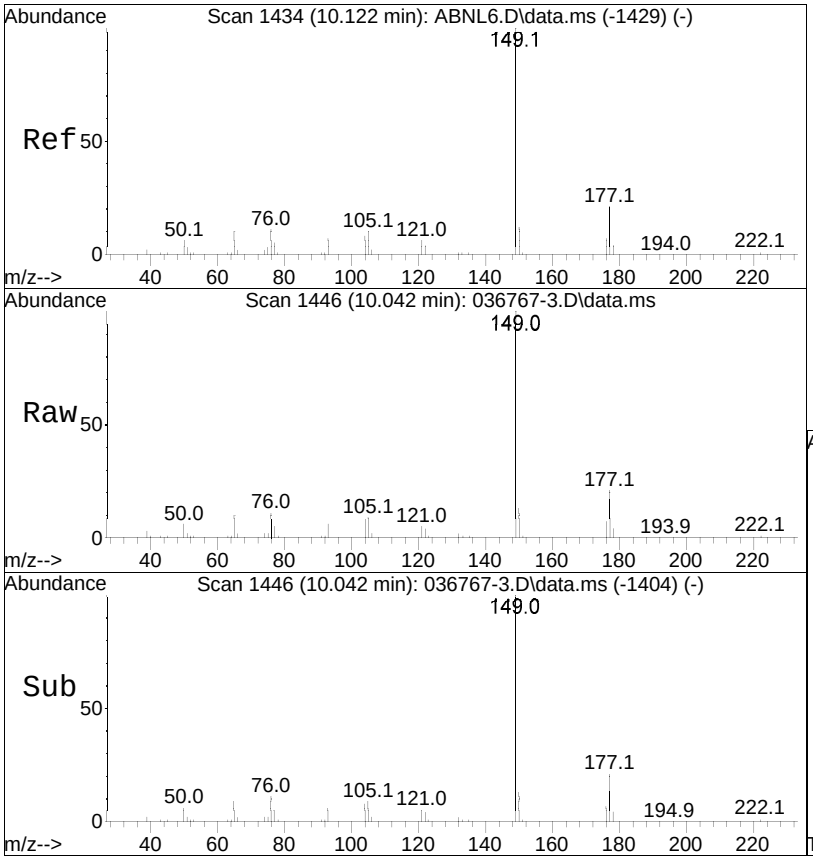


#69
4-Nitrophenol
Concen: 1.03 ug/ml
RT: 9.730 min Scan# 1393
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion: 65 Resp: 8367

Ion	Ratio	Lower	Upper
65	100		
109	79.6	47.4	71.2#
139	93.5	76.6	115.0

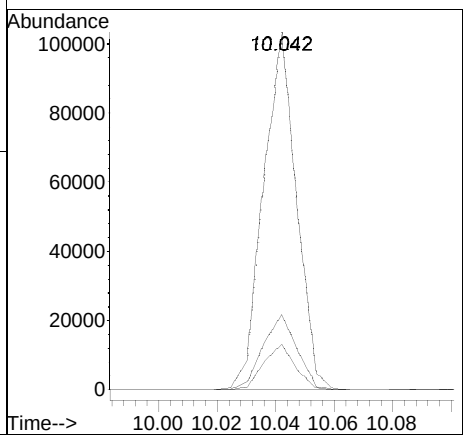


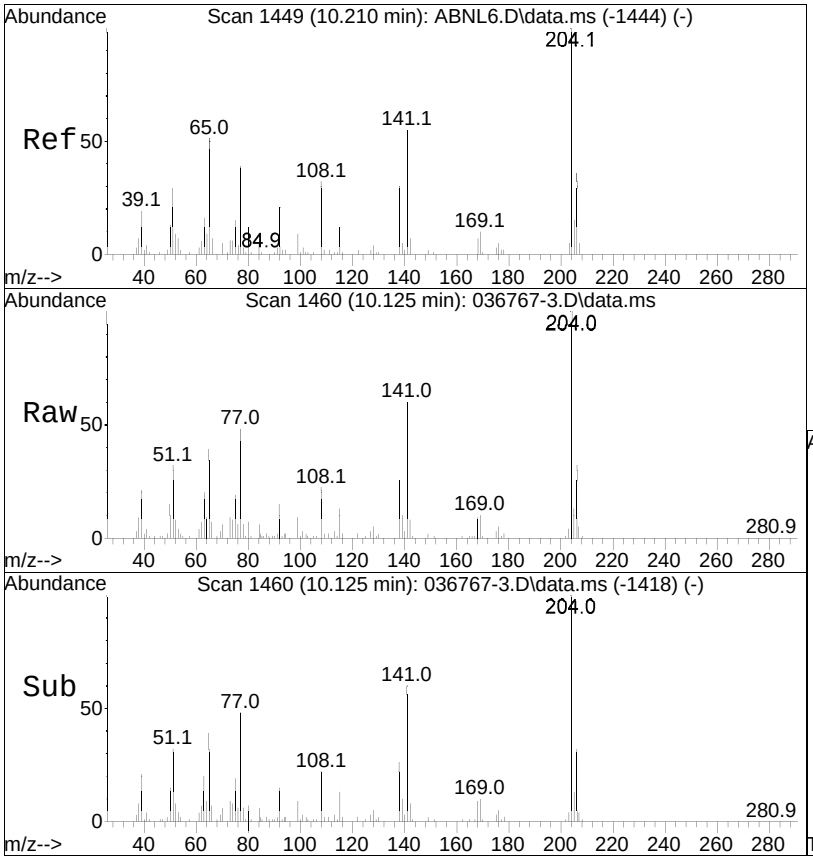


#72
Diethyl phthalate
Concen: 1.55 ug/ml
RT: 10.042 min Scan# 1446
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:149 Resp: 79932

Ion	Ratio	Lower	Upper
149	100		
177	22.1	16.1	24.1
150	12.5	9.4	14.2

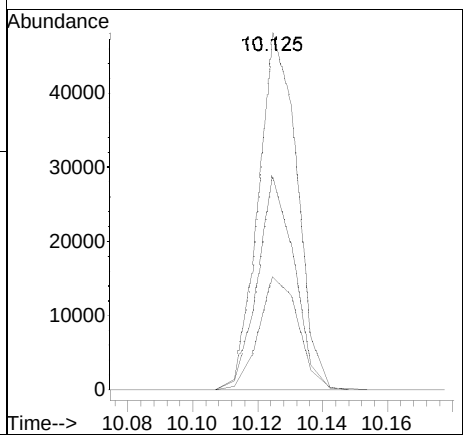


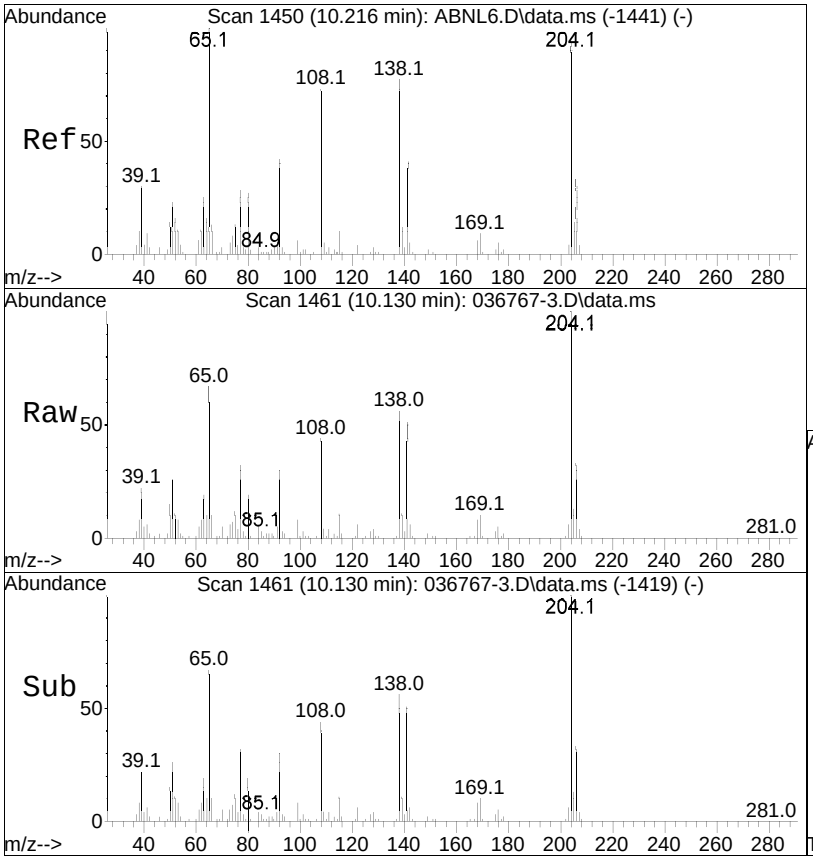


#74
4-Chlorophenyl phenyl ether
Concen: 1.55 ug/ml
RT: 10.125 min Scan# 1460
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:204 Resp: 39517

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	56.8	53.6	80.4

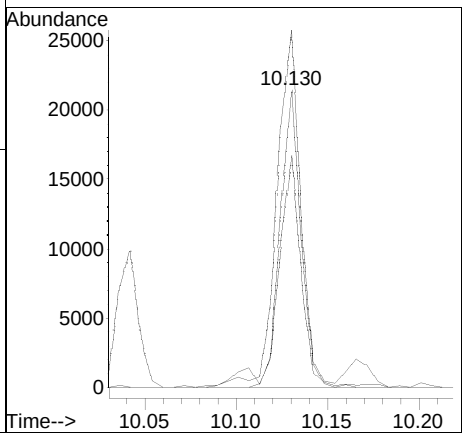


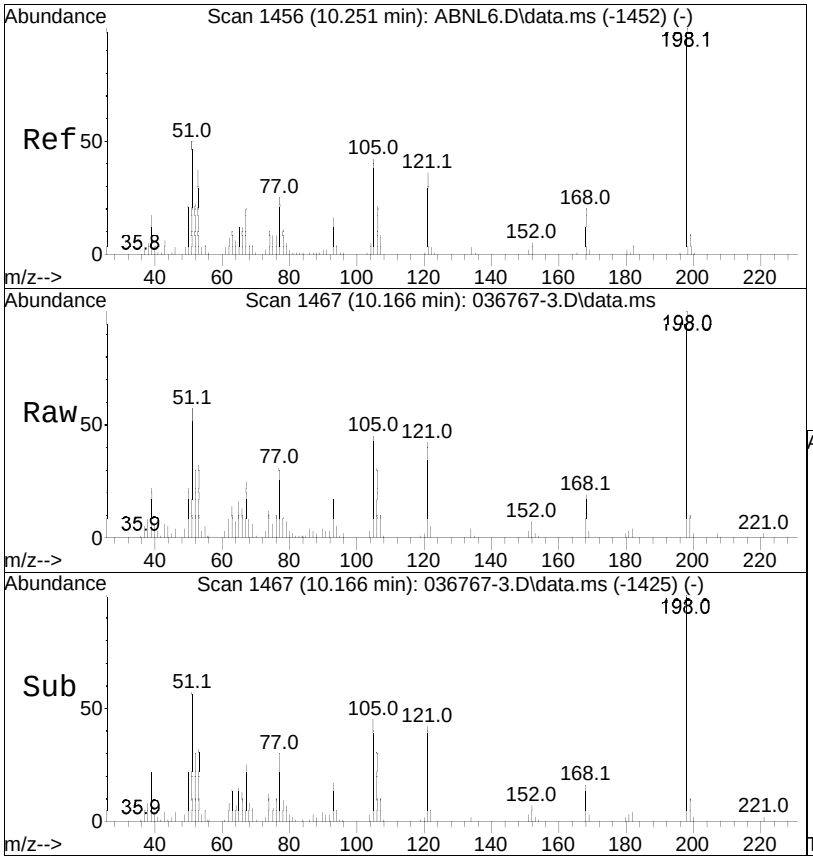


#75
4-Nitroaniline
Concen: 1.61 ug/ml
RT: 10.130 min Scan# 1461
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:138 Resp: 17909

Ion	Ratio	Lower	Upper
138	100		
108	75.4	52.1	78.1
65	130.3	115.0	172.6

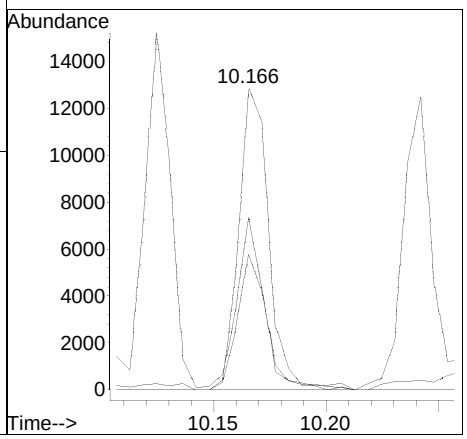


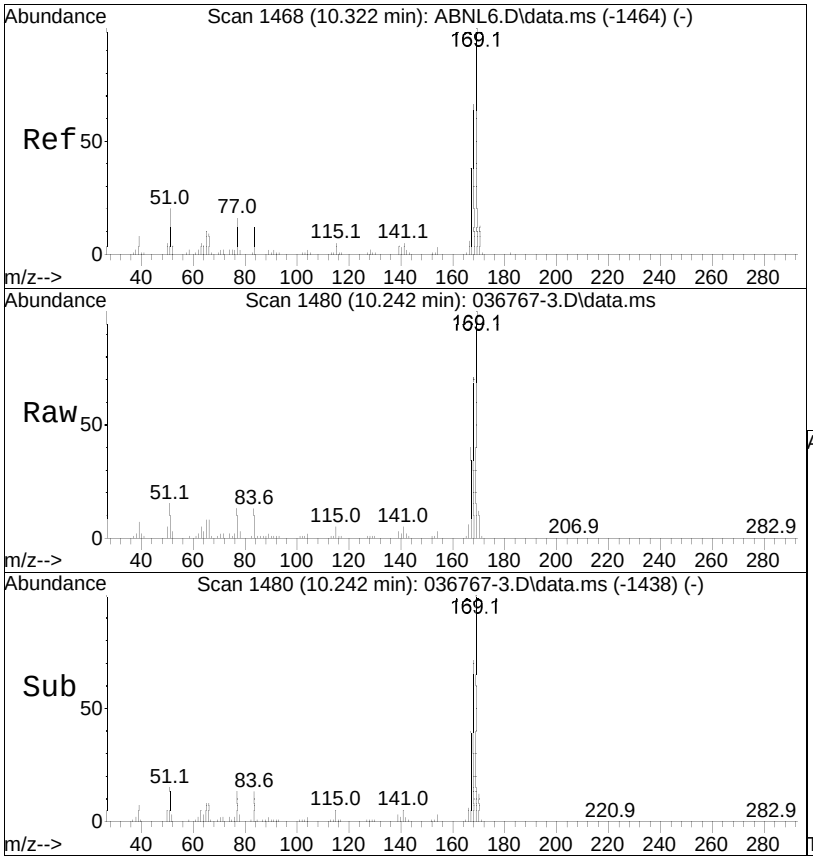


#76
4,6-Dinitro-o-cresol
Concen: 1.49 ug/ml
RT: 10.166 min Scan# 1467
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:198 Resp: 11823

Ion	Ratio	Lower	Upper
198	100		
51	53.4	76.0	114.0#
105	44.8	45.6	68.4#

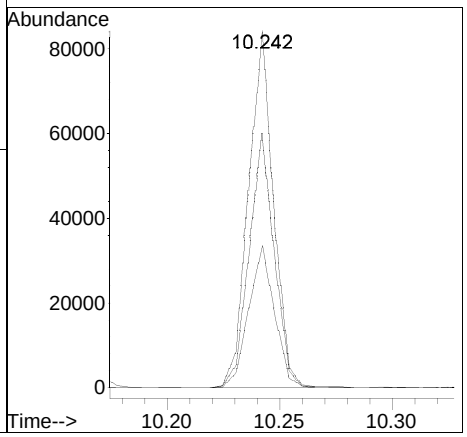


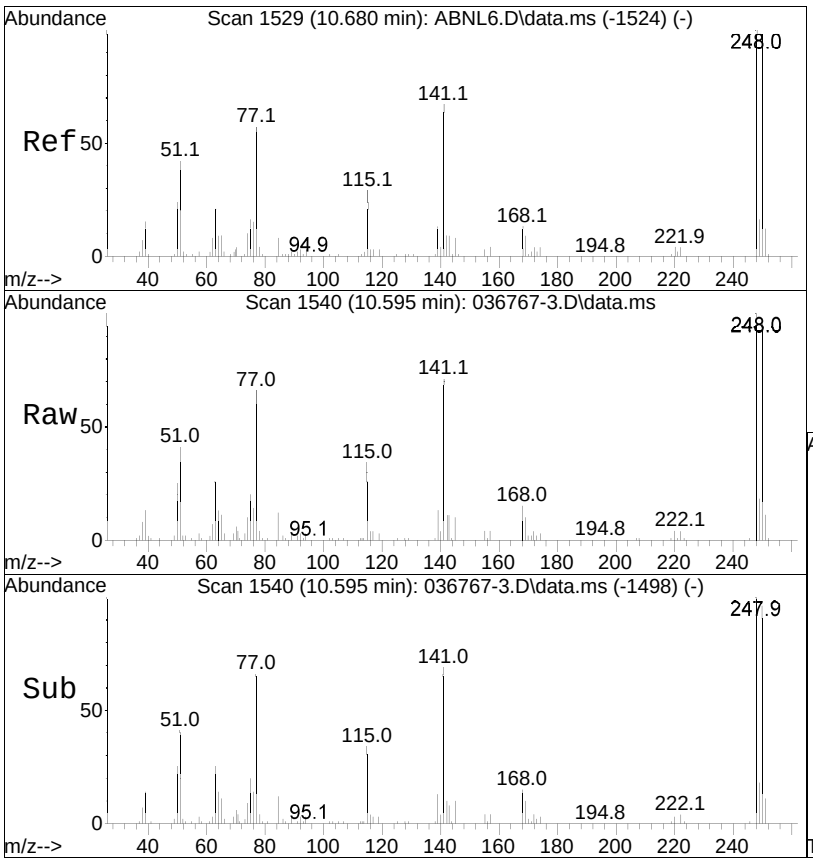


#77
NDPA/DPA
Concen: 1.52 ug/ml
RT: 10.242 min Scan# 1480
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:169 Resp: 64920

Ion	Ratio	Lower	Upper
169	100		
168	71.5	54.0	81.0
167	41.2	28.6	42.8

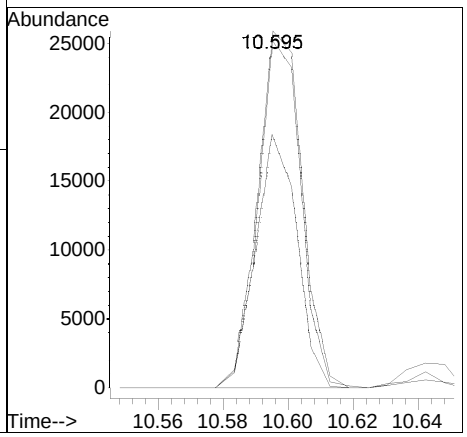


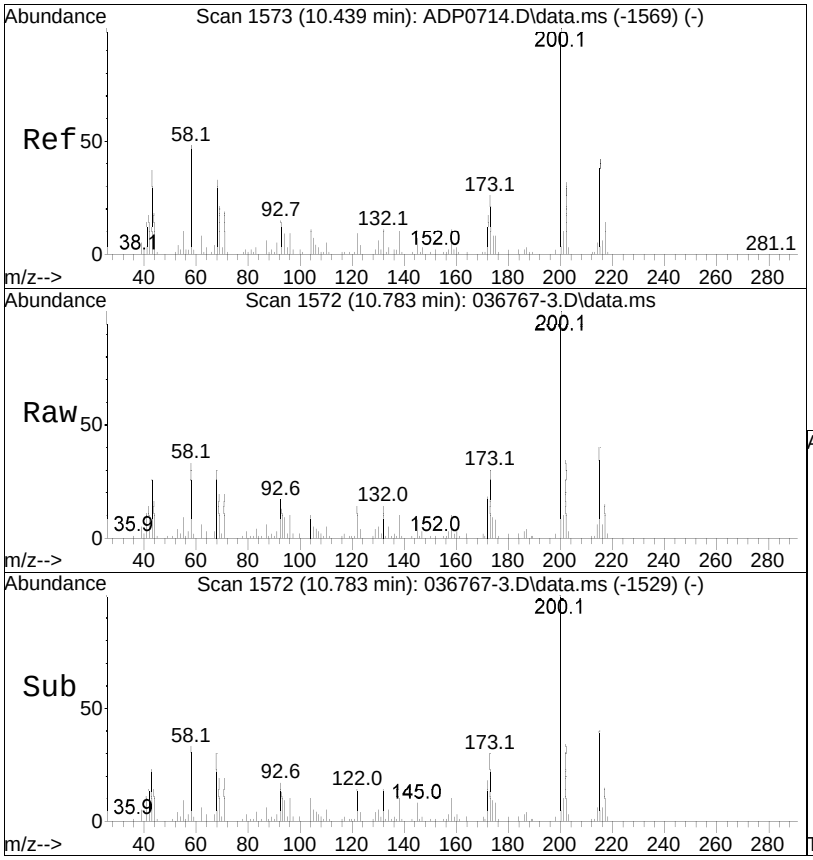


#80
4-Bromophenyl phenyl ether
Concen: 1.55 ug/ml
RT: 10.595 min Scan# 1540
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:248 Resp: 24448

Ion	Ratio	Lower	Upper
248	100		
141	66.2	76.6	114.8#
250	92.9	77.3	115.9

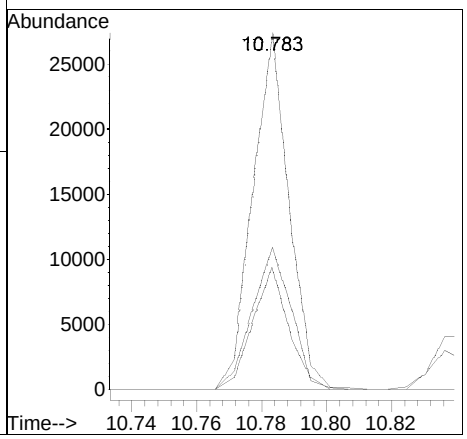


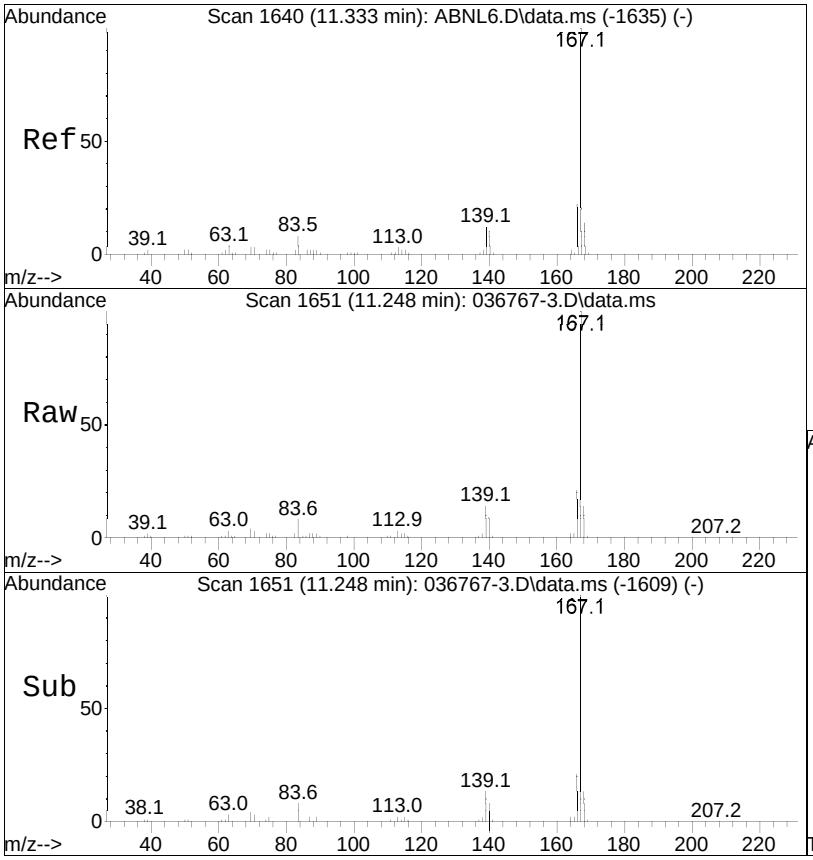


#87
Atrazine
Concen: 1.49 ug/ml
RT: 10.783 min Scan# 1572
Delta R.T. 0.000 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:200 Resp: 20990

Ion	Ratio	Lower	Upper
200	100		
202	34.3	25.8	38.6
215	43.0	40.2	60.4

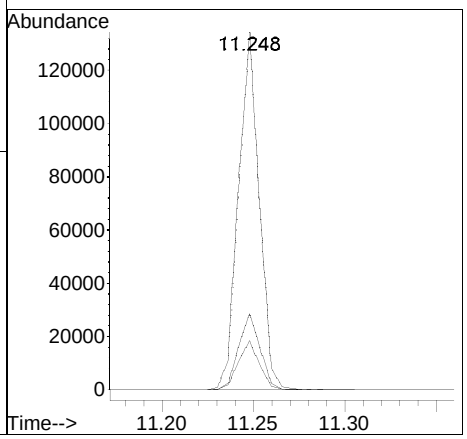


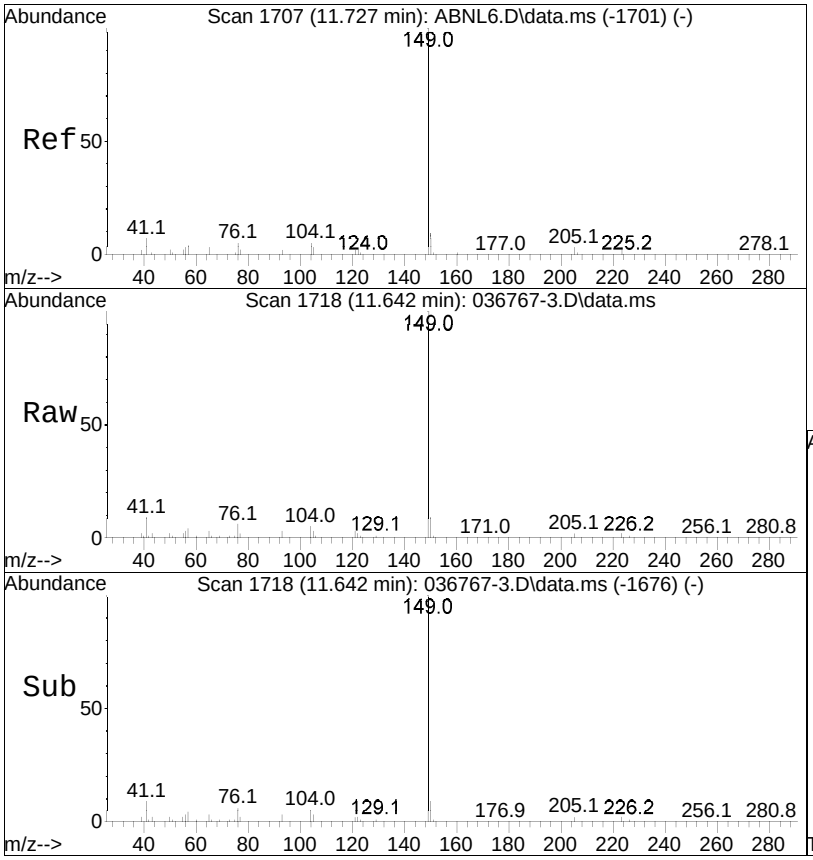


#91
Carbazole
Concen: 1.52 ug/ml
RT: 11.248 min Scan# 1651
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:167 Resp: 104588

Ion	Ratio	Lower	Upper
167	100		
168	14.2	10.6	15.8
166	22.3	17.4	26.0

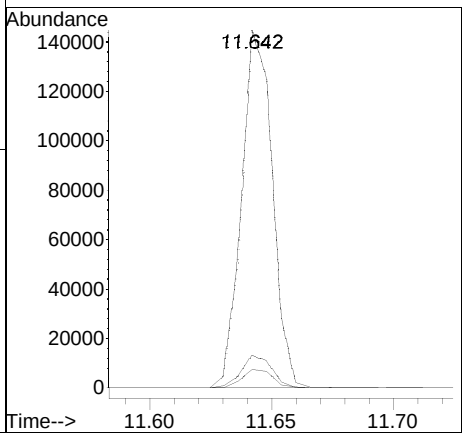


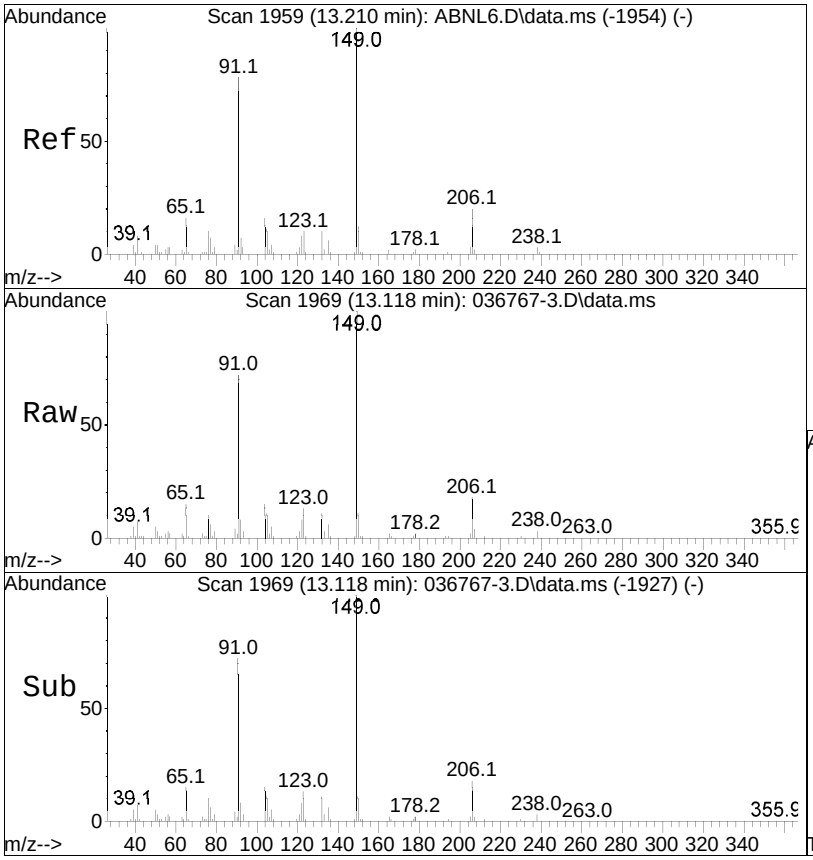


#92
Di-n-butylphthalate
Concen: 1.46 ug/ml
RT: 11.642 min Scan# 1718
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:149 Resp: 125574

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.2	4.5	6.7

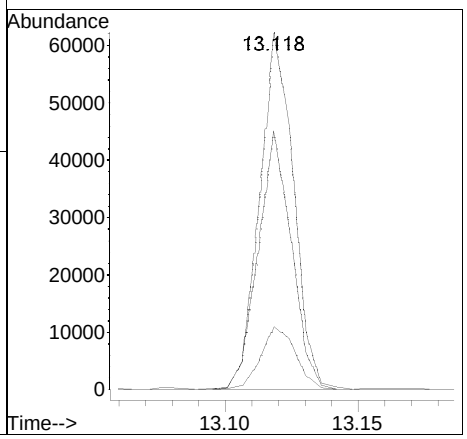


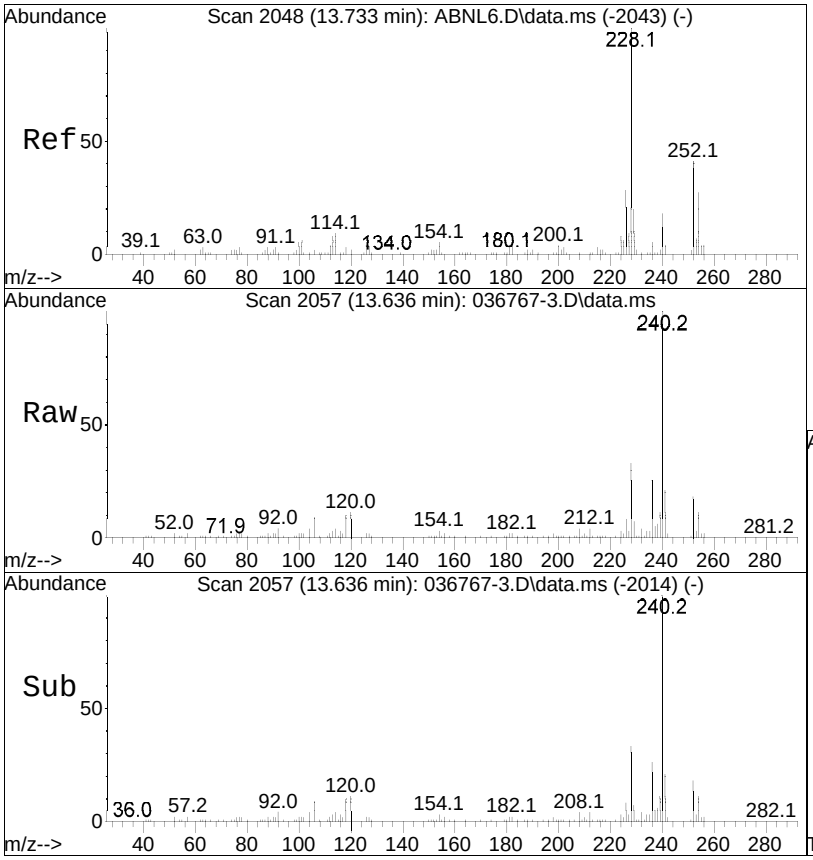


#97
Butyl benzyl phthalate
Concen: 1.50 ug/ml
RT: 13.118 min Scan# 1969
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:149 Resp: 54500

Ion	Ratio	Lower	Upper
149	100		
91	71.3	63.3	94.9
206	18.2	13.9	20.9

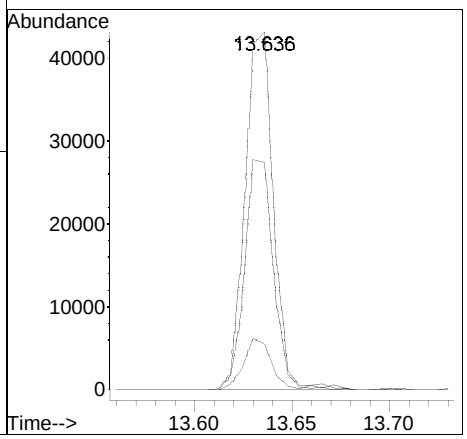


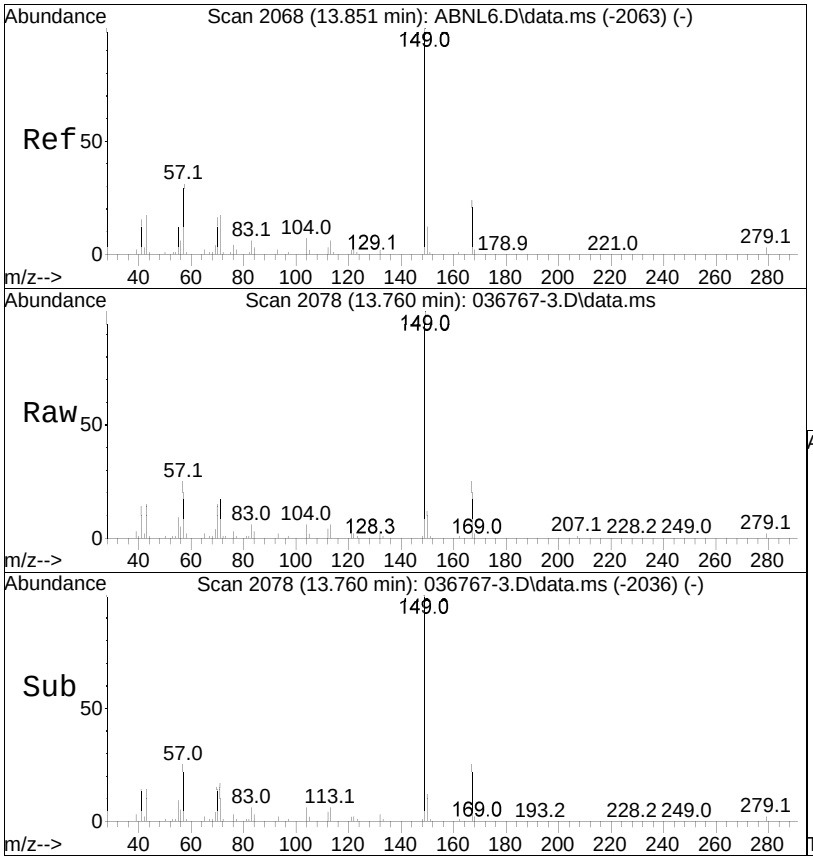


#106
3,3'-Dichlorobenzidine
Concen: 1.52 ug/ml
RT: 13.636 min Scan# 2057
Delta R.T. 0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:252 Resp: 43199

Ion	Ratio	Lower	Upper
252	100		
126	14.0	14.5	21.7#
254	64.9	51.2	76.8

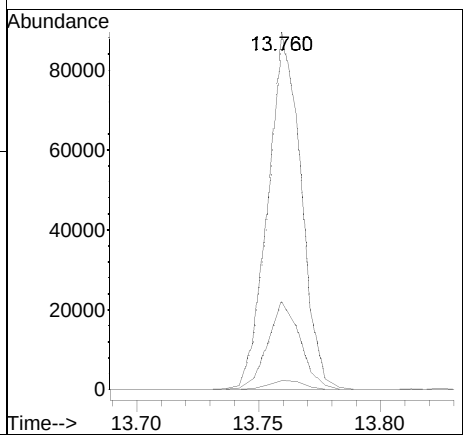


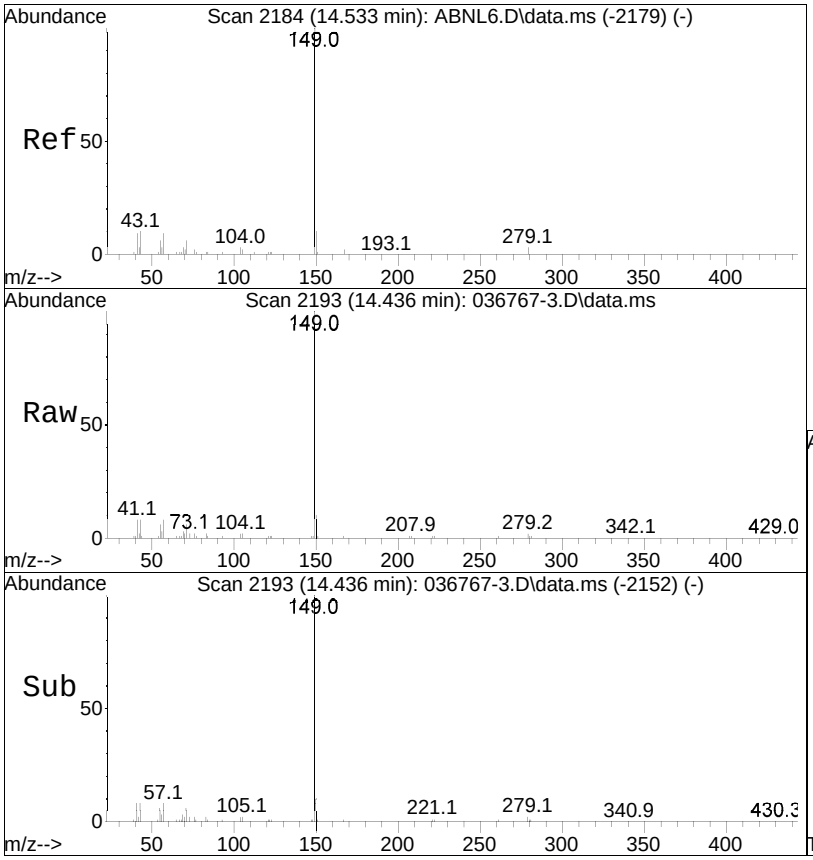


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.61 ug/ml
RT: 13.760 min Scan# 2078
Delta R.T. -0.003 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:149 Resp: 83929

Ion	Ratio	Lower	Upper
149	100		
167	24.2	22.1	33.1
279	2.5	3.0	4.4#

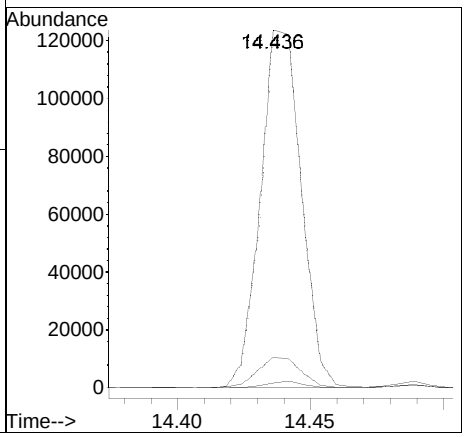




#109
Di-n-octylphthalate
Concen: 1.51 ug/ml
RT: 14.436 min Scan# 2193
Delta R.T. -0.009 min
Lab File: 036767-3.D
Acq: 5 Mar 2025 2:20 pm

Tgt Ion:149 Resp: 130726

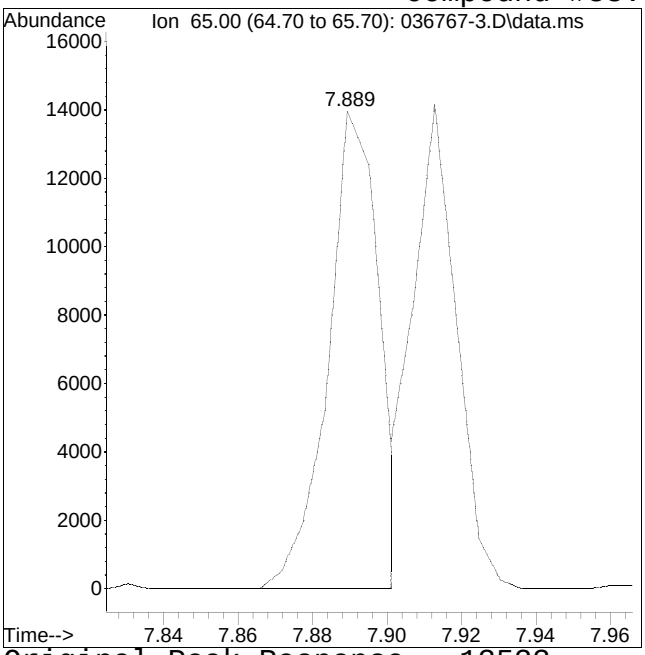
Ion	Ratio	Lower	Upper
149	100		
43	9.3	18.8	28.2#
167	1.6	1.3	1.9



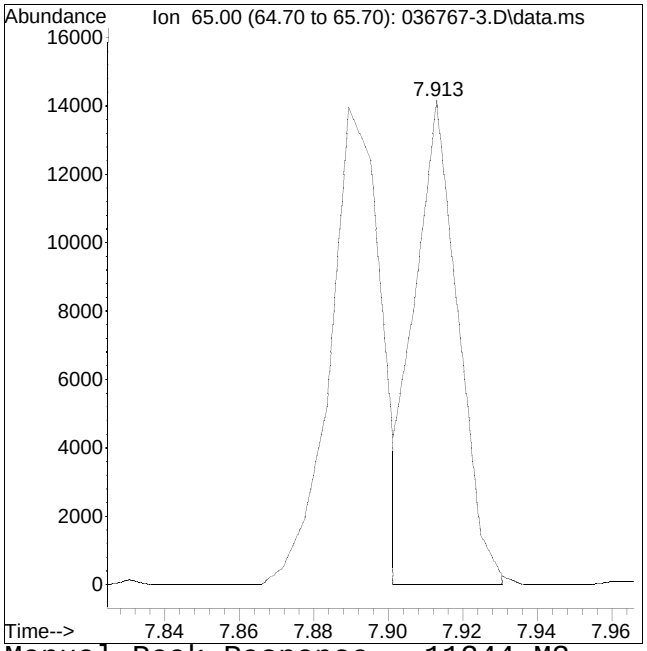
Manual Integration Report

Data Path	: I:\8270\SV106\250305RVT\	QMethod	: FS241009SV106.m
Data File	: 036767-3.D	Operator	: SV106:smz
Date Inj'd	: 3/5/2025 2:20 pm	Instrument	: SV 106
Sample	: WG2036767-3,32,,gmr	Quant Date	: 3/5/2025 2:39 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 13533



Manual Peak Response = 11244 M3

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 07 2025, 07:47 am

Work Group: WG2036767 for Department: 2 Organic Preparation

Created: 05-MAR-25 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2510432-02	VACDRUM_WC_022625	C	NYTCL-8270-RVT	WATER	DONE	U	0305	0305	S0	Amber-A.5
L2510791-01	BUFFALO RO TYPE-1	C	NYTCL-8270-RVT	WATER	DONE	U	0306	0320	NC	Amber-A.1
L2511496-01	TW-5	C	NYTCL-8270-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511496-02	TW-4	C	NYTCL-8270-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511496-03	TW-2	C	NYTCL-8270-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511529-01	MW-11D	C	NYTCL-8270-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511943-01	RI-MW-5	C	NYTCL-8270-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
L2511943-02	RI-MW-2	C	NYTCL-8270-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
L2511943-03	RI-MW-1	C	NYTCL-8270-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
L2512043-01	IRM-EFFLUENT	S	NYTCL-8270-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
L2512043-02	IRM-MIDPOINT	S	NYTCL-8270-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
L2512043-03	IRM-INFLUENT	S	NYTCL-8270-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
WG2036767-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2036767-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2036767-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG2036767-3 WG2036767-2

Dep.: GCMS
Inst: SV106
Date: **10/09/24**
Run: **ICAL**

Method
GC: 8270RV

Seq: **WG1984388**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	Tune1	Tune1 Lot# 11080				
1	ABNL9	IL2,32,,ABNL50 Lot# 11004				
2	ABNL8	IL3,32,,ABNL25 Lot# 11005				
3	ABNL7	IL4,32,,ABNL10 Lot# 11006				
4	ABNL6	IL5,32,,ABNL5 Lot# 11007				
5	ABNL5	IL6,32,,ABNL2.5 Lot# 11008				
6	ABNL4	IL7,32,,ABNL1 Lot# 11009				
7	ABNL3	IL8,32,,ABNL0.5 Lot# 11010				
8	ABNL2	IL9,32,,ABNL0.2 Lot# 11011				
9	ABNL1	IL10,32,,ABNL0.1 Lot# 11012				
10	AP9L9	IL2,32,,AP9L50 Lot# 11013				
11	AP9L8	IL3,32,,AP9L25 Lot# 11014				
12	AP9L7	IL4,32,,AP9L10 Lot# 11015				
13	AP9L6	IL5,32,,AP9L5 Lot# 11016				
14	AP9L5	IL6,32,,AP9L2.5 Lot# 11017				
15	AP9L4	IL7,32,,AP9L1 Lot# 11018				
16	AP9L3	IL8,32,,AP9L0.5 Lot# 11019				
17	AP9L2	IL9,32,,AP9L0.2 Lot# 11020				
18	AP9L1	IL10,32,,AP9L0.1 Lot# 11021				
19	ABNICV	CQICV1,32,,ABNICV Lot# 11031				
20	AP9ICV	CQICV2,32,,AP9ICV Lot# 11032				
141	Tune2	Tune2 Lot# 11080				
21	ADPL9	IL2,32,,ADPL50 Lot# 11022	RR, poor solvent delay			
22	ADPL8	IL3,32,,ADPL25 Lot# 11023	RR, poor solvent delay			
23	ADPL7	IL4,32,,ADPL10 Lot# 11024	RR, poor solvent delay			
24	ADPL6	IL5,32,,ADPL5 Lot# 11025	RR, poor solvent delay			
25	ADPL5	IL6,32,,ADPL2.5 Lot# 11026	RR, poor solvent delay			
26	ADPL4	IL7,32,,ADPL1 Lot# 11027	RR, poor solvent delay			
27	ADPL3	IL8,32,,ADPL0.5 Lot# 11028	RR, poor solvent delay			
28	ADPL2	IL9,32,,ADPL0.2 Lot# 11029	RR, poor solvent delay			
29	ADPL1	IL10,32,,ADPL0.1 Lot# 11030	RR, poor solvent delay			
30	ADPICV	CQICV3,32,,ADPICV Lot# 11033	RR, poor solvent delay			
31	Blank	RVT Instrument Blank			mrg	
141	Tune3	Tune3 Lot# 11080				
1	ADPL9	IL2,32,,ADPL50 Lot# 11022				
2	ADPL8	IL3,32,,ADPL25 Lot# 11023				
3	ADPL7	IL4,32,,ADPL10 Lot# 11024				
4	ADPL6	IL5,32,,ADPL5 Lot# 11025				
5	ADPL5	IL6,32,,ADPL2.5 Lot# 11026				
6	ADPL4	IL7,32,,ADPL1 Lot# 11027				
7	ADPL3	IL8,32,,ADPL0.5 Lot# 11028				
8	ADPL2	IL9,32,,ADPL0.2 Lot# 11029				
9	ADPL1	IL10,32,,ADPL0.1 Lot# 11030				
10	ADPICV	CQICV3,32,,ADPICV Lot# 11033				
11	Blank	RVT Instrument Blank			hny	

Dep.: GCMS
Inst: SV106
Date: **03/05/25**
Run:

Method
GC: ABNRVT

Seq: **WG2036963**
ICAL: **21604**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	DEG0305	wg-1,32,,Degdftpp Lot # 11424				smz 2/5
142	ABN0305	wg-3,32,,ABN 11297 gmr0304A	**TCLP**			smz 2/5
143	AP90305	wg-4,32,,AP9 11152 gmr0304A				smz 2/5
144	ADP0305	wg-5,32,,ADP 11153 gmr0304A				smz 2/5
1	033581-1	WG2033581-1,32,,gmr				smz 2/5
2	033581-2	WG2033581-2,32,,gmr	RV			smz 2/5
3	033581-3	WG2033581-3,32,,gmr	RV			smz 2/5
4	035759-1	WG2035759-1,32,,gmr				smz 2/5
5	035759-2	WG2035759-2,32,,gmr				smz 2/5
6	035759-3	WG2035759-3,32,,gmr				smz 2/5
7	036767-1	WG2036767-1,32,,gmr				smz 2/5
8	036767-2	WG2036767-2,32,,gmr				smz 2/5
9	036767-3	WG2036767-3,32,,gmr			**SV-smz**	smz 2/5
10	10432-02	L2510432-02,32,,gmr			**gmr**	
11	432-02d1	L2510432-02d,32,20,M,HNY				smz 2/5
12	509-01d1	L2510509-01d,32,5,gmr			**sv-smz**	smz 2/5
13	10808-01	L2510808-01,32,,gmr				smz 2/6
14	10957-02	L2510957-02,32,,gmr	20x			
15	10957-03	L2510957-03,32,,gmr				smz 2/6
16	10957-04	L2510957-04,32,,gmr				smz 2/6
17	10957-05	L2510957-05,32,,gmr				smz 2/6
18	10788-01	L2510788-01,32,,gmr				smz 2/6
19	10898-01	L2510898-01,32,,gmr				smz 2/6
20	10898-02	L2510898-02,32,,gmr				smz 2/6
21	033581-4	WG2033581-4,32,,gmr				smz 2/6
22	033581-5	WG2033581-5,32,,gmr				smz 2/6
23	08804-01	L2508804-01,32,,R3D,gmr				smz 2/6
24	08804-02	L2508804-02,32,,R3D,gmr				smz 2/6
25	11313-06	L2511313-06,32,,gmr			**hny**	smz 2/6
					SV-ASK	

Dep.: GCMS
Inst: SV106
Date: **03/05/25**
Run: **Night-Run**

Method
GC: ABNRVT

Seq: **WG2037122**
ICAL: **21604**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	DEG0305n	wg-1,32,,Degdftpp Lot # 11339				imk 3/6
142	ABN0305n	wg-3,32,,ABN RVT CCV Lot # 11	**Full List – 2,4-Dimethylphenol Low**			imk 3/6
143	AP90305n	wg-4,32,,AP9 RVT CCV Lot # 11152				imk 3/6
144	ADP0305n	wg-5,32,,ADP RVT CCV Lot # 11153				imk 3/6
145	BLK0305n	wg-6,32,,RVT Instrument Blank				
1	037072-1	WG2037072-1,32,,ASK				smz 3/6
2	037072-2	WG2037072-2,32,,ASK				smz 3/6
3	037072-3	WG2037072-3,32,,ASK				smz 3/6
4	11315-01	L2511315-01,32,,ASK				smz 3/6
5	11338-01	L2511338-01,32,,ASK				smz 3/6
6	11299-01	L2511299-01,32,,ASK				smz 3/6
7	11496-01	L2511496-01,32,,ASK				smz 3/6
8	11496-02	L2511496-02,32,,ASK				smz 3/6
9	11496-03	L2511496-03,32,,ASK				smz 3/6
10	11529-01	L2511529-01,32,,ASK				smz 3/6
11	11497-01	L2511497-01,32,,ASK				smz 3/6
12	11497-11	L2511497-11,32,,ASK				smz 3/6
13	11497-12	L2511497-12,32,,ASK				smz 3/6
14	11497-13	L2511497-13,32,,ASK				smz 3/6
15	11578-01	L2511578-01,32,,ASK				smz 3/6
16	11944-01	L2511944-01,32,,ASK			**AK/sv-gr**	smz 3/6
17	037169-2	WG2037169-2,32,,gmr				imk 3/6
18	037169-3	WG2037169-3,32,,gmr				imk 3/6
19	037169-1	WG2037169-1,32,,gmr				imk 3/6
20	11740-09	L2511740-09,32,,R3B,gmr				imk 3/6
21	11740-10	L2511740-10,32,,R3B,gmr				imk 3/6
22	11944-02	L2511944-02,32,,ASK			**gmr**	smz 3/6
23	0957-02d	L2510957-02d,32,20,rr			**sv-imk**	imk 3/6
24	11944-03	L2511944-03,32,,ASK				smz 3/6
25	11944-04	L2511944-04,32,,ASK				smz 3/6
26	11944-05	L2511944-05,32,,ASK			**smz**	smz 3/6
					sv-imk	

ORGANIC ELN REPORT

Workgroup: WG2036767

Prep Method: EPA 3510C
Solvent Type: DCM — **Lot #:** EJ756
Surrogate Type: ABN — **Lot #:** 11269CD-062025
Spike Type: ABN — **Lot #:** 11219AO-061925 | 11220AI-03
Spike Verify by: MAD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A010625
Na2SO4	23K2961078
NaOH	10NNaOH010625

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ756

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2510432-02 WATER	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
Sample volume decanted from larger amber										
L2510791-01 SAMP	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2511496-01 SAMP	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
L2511496-02 SAMP	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
L2511496-03 SAMP	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
L2511529-01 WATER	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K

Reported: 07-MAR-25 07:47 AM

ORGANIC ELN REPORT

Workgroup: WG2036767

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2511943-01 WATER	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2511943-02 WATER	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2511943-03 WATER	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2512043-01 SAMP	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2512043-02 SAMP	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2512043-03 SAMP	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
WG2036767-1 BLANK	03/05/25 07:02 **WG2036768**	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
WG2036767-2 LCS	03/05/25 07:02 **WG2036768**	Michael Daring	100	<2, >12	.1	.1	03/05/25 09:43	Grace Tran	1	K
WG2036767-3 LCSD	03/05/25 07:02 **WG2036768**	Michael Daring	100	<2, >12	.1	.1	03/05/25 09:43	Grace Tran	1	K

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2511529
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-11D (L2511529-01)	66	47	94	83	97	76	0
WG2036768-1BLANK	64	46	83	72	87	74	0
WG2036768-2LCS	47	35	60	51	69	49	0
WG2036768-3LCSD	61	46	78	68	91	66	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2036768-2	**Analysis Date** : 03/05/25 11:47	**File ID** : 036768-2
LCSD Sample ID	: WG2036768-3	**Analysis Date** : 03/05/25 12:04	**File ID** : 036768-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	12	58	20	15	77	28	40-140	40
2-Chloronaphthalene	20	11	56	20	15	74	28	40-140	40
Fluoranthene	20	11	55	20	15	76	32	40-140	40
Hexachlorobutadiene	20	9.6	48	20	12	62	25	40-140	40
Naphthalene	20	11	53	20	14	70	28	40-140	40
Benzo(a)anthracene	20	12	61	20	16	82	29	40-140	40
Benzo(a)pyrene	20	13	65	20	18	88	30	40-140	40
Benzo(b)fluoranthene	20	12	62	20	16	81	27	40-140	40
Benzo(k)fluoranthene	20	12	59	20	16	82	33	40-140	40
Chrysene	20	11	56	20	15	76	30	40-140	40
Acenaphthylene	20	12	61	20	16	83	31	40-140	40
Anthracene	20	12	61	20	16	81	28	40-140	40
Benzo(ghi)perylene	20	14	69	20	19	93	30	40-140	40
Fluorene	20	12	62	20	16	83	29	40-140	40
Phenanthrene	20	12	58	20	16	78	29	40-140	40
Dibenzo(a,h)anthracene	20	14	69	20	18	93	30	40-140	40
Indeno(1,2,3-cd)pyrene	20	14	70	20	19	94	29	40-140	40
Pyrene	20	11	56	20	15	75	29	40-140	40
2-Methylnaphthalene	20	10	51	20	14	68	29	40-140	40
Pentachlorophenol	20	12	62	20	15	76	20	40-140	40
Hexachlorobenzene	20	12	59	20	15	76	25	40-140	40
Hexachloroethane	20	11	57	20	15	74	26	40-140	40
Bis(2-chloroethyl)ether	20	12	61	20	16	79	26	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2036768-1	**Lab File ID**	: 036768-1
Instrument ID	: SV119	**Extraction Date**	: 03/05/25
Matrix	: WATER	**Analysis Date**	: 03/05/25 12:21
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2036768-2LCS	WG2036768-2	03/05/25 11:47
WG2036768-3LCSD	WG2036768-3	03/05/25 12:04
MW-11D	L2511529-01	03/05/25 15:25

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 12/29/24 13:20
Tune Standard	: R1917140-11	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	58
68	Less than 2.0% of mass 69	0.8 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	54.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	25.6
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	78.7
443	15.0 - 24.0% of mass 442	13.7 (17.4)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
L10	R1917140-2	L10	12/29/24 13:37
L9	R1917140-10	L9	12/29/24 13:53
L8	R1917140-9	L8	12/29/24 14:10
L7	R1917140-7	L7	12/29/24 14:27
L6	R1917140-8	L6	12/29/24 14:44
L5	R1917140-6	L5	12/29/24 15:01
L4	R1917140-5	L4	12/29/24 15:18
L3	R1917140-4	L3	12/29/24 15:35
L2	R1917140-3	L2	12/29/24 15:52
L1	R1917140-1	L1	12/29/24 16:09
ICV Quant Report	R1917140-12	ICV	12/29/24 16:26

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/05/25 06:11
Tune Standard	: WG2036764-1	**Tune File ID**	: deg0305_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	51.4
68	Less than 2.0% of mass 69	0.8 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	56.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	23.6
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	20.1
442	Base Peak, or >50% of mass 198	65.3
443	15.0 - 24.0% of mass 442	11.7 (17.9)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2036764-4TFACTOR-B	WG2036764-4	DEG0305	03/05/25 06:11
WG2036764-5TFACTOR-P	WG2036764-5	DEG0305	03/05/25 06:11
WG2036764-3CCAL	WG2036764-3	CCV0305	03/05/25 06:29
WG2036768-2LCS	WG2036768-2	036768-2	03/05/25 11:47
WG2036768-3LCSD	WG2036768-3	036768-3	03/05/25 12:04
WG2036768-1BLANK	WG2036768-1	036768-1	03/05/25 12:21
MW-11D	L2511529-01	11529-01	03/05/25 15:25

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/05/25 06:29:00
Sample No	: WG2036764-3	**Lab File ID**	: CCV0305

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2036764-3	358448	2.20	1402776	2.86	821052	3.83
Upper Limit	716896	2.70	2805552	3.36	1642104	4.33
Lower Limit	179224	1.70	701388	2.36	410526	3.33
Sample ID						
WG2036768-2 LCS	353317	2.21	1457535	2.86	886516	3.83
WG2036768-3 LCSD	259646	2.21	1088951	2.86	673665	3.83
WG2036768-1 BLANK	289729	2.21	1164290	2.86	676316	3.83
MW-11D	311644	2.21	1248859	2.86	725717	3.83

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/05/25 06:29:00
Sample No	: WG2036764-3	**Lab File ID**	: CCV0305

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2036764-3	1709135	4.66	1551369	6.22	1505949	7.39
Upper Limit	3418270	5.16	3102738	6.72	3011898	7.89
Lower Limit	854568	4.16	775685	5.72	752975	6.89
Sample ID						
WG2036768-2 LCS	1824450	4.67	1517655	6.21	1421547	7.38
WG2036768-3 LCSD	1434411	4.67	1197177	6.21	1123631	7.38
WG2036768-1 BLANK	1348320	4.67	1184076	6.20	1036215	7.38
MW-11D	1378788	4.67	1014162	6.20	1080405	7.38

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/05/25 15:25
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 11529-01	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	0.06	0.10	0.02	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	0.03	0.10	0.02	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	0.03	0.10	0.03	J
85-01-8	Phenanthrene	0.05	0.10	0.04	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	0.11	0.10	0.03	
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	0.06	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/05/25 15:25
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 11529-01	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036768-1	**Date Collected**	: NA
Client ID	: WG2036768-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/25 12:21
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 036768-1	**Analyst**	: KMH
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036768-1	**Date Collected**	: NA
Client ID	: WG2036768-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/25 12:21
Sample Matrix	: WATER	**Date Extracted**	: 03/05/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 036768-1	**Analyst**	: KMH
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 11529-01.D
Acq On : 05 Mar 2025 03:25 pm
Operator : sv119:rp
Sample : L2511529-01,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 07 12:16:53 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.209	152	311644	4000.000	ng/ml	0.00
Standard Area 1 = 358448			Recovery = 86.94%			
9) Naphthalene-d8	2.864	136	1248859	4000.000	ng/ml	0.00
Standard Area 1 = 1402776			Recovery = 89.03%			
18) Acenaphthene-d10	3.831	164	725717	4000.000	ng/ml	0.00
Standard Area 1 = 821052			Recovery = 88.39%			
23) Phenanthrene-d10	4.666	188	1378788	4000.000	ng/ml	0.00
Standard Area 1 = 1709135			Recovery = 80.67%			
33) Chrysene-d12	6.204	240	1014162	4000.000	ng/ml	-0.01
Standard Area 1 = 1551369			Recovery = 65.37%			
38) Perylene-d12	7.378	264	1080405	4000.000	ng/ml	-0.01
Standard Area 1 = 1505949			Recovery = 71.74%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.641	112	110174	1319.428	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 65.97%			
4) Phenol-d6	2.031	99	98939	949.332	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.47%			
8) Nitrobenzene-d5	2.489	82	95400	943.960	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.40%			
14) 2-Fluorobiphenyl	3.454	172	251939	827.310	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 82.73%			
22) 2,4,6-Tribromophenol	4.277	330	61708	1948.232	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 97.41%			
32) 4-Terphenyl-d14	5.576	244	258847	756.763	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 75.68%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	2.874	128	2074	5.955	ng/ml#	97
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	3.251	142	2701	11.097	ng/ml	99
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	4.139	166	957M6	3.441	ng/ml	
25) Hexachlorobenzene	4.455	284	444	5.463	ng/ml#	81

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 11529-01.D
Acq On : 05 Mar 2025 03:25 pm
Operator : sv119:rp
Sample : L2511529-01,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 07 12:16:53 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	4.678	178	2152M6	5.338	ng/ml	
28) Anthracene	4.707	178	1298M4	3.211	ng/ml	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

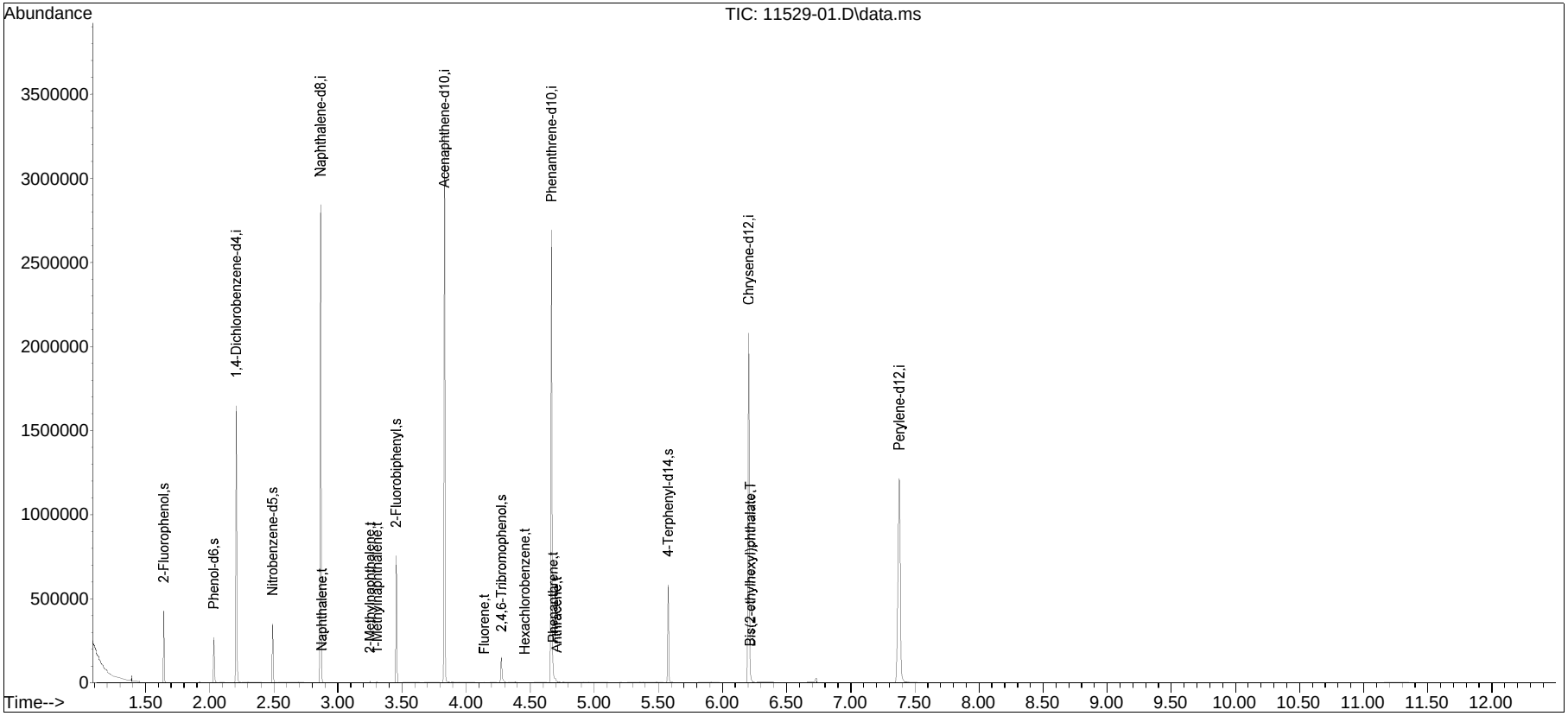
(#) = qualifier out of range (m) = manual integration (+) = signals summed

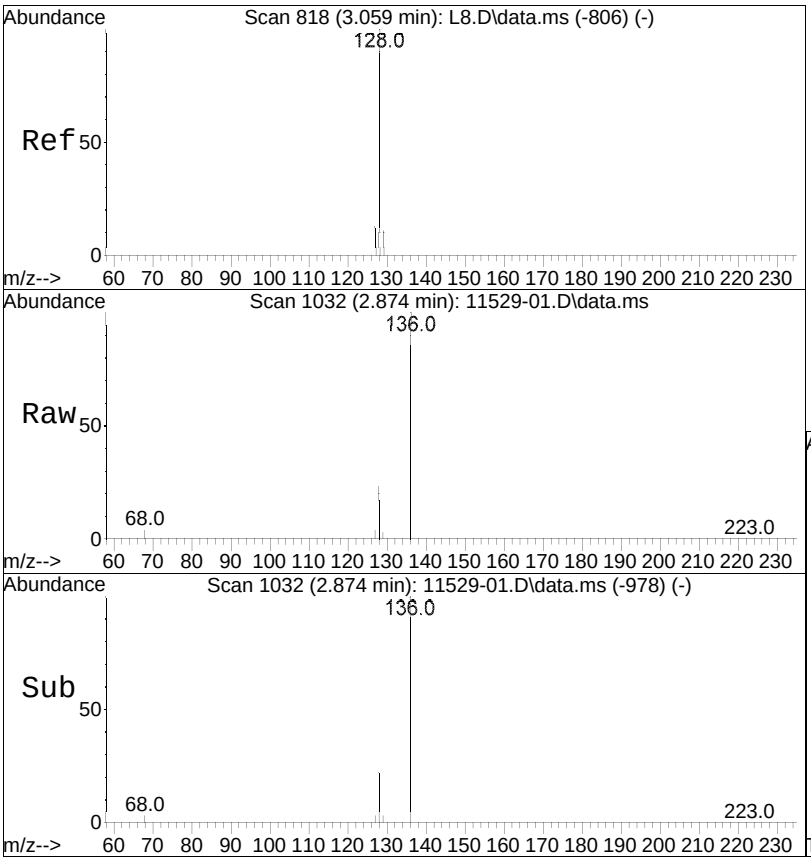
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 11529-01.D
Acq On : 05 Mar 2025 03:25 pm
Operator : sv119:rp
Sample : L2511529-01,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 07 12:16:53 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0305.D•

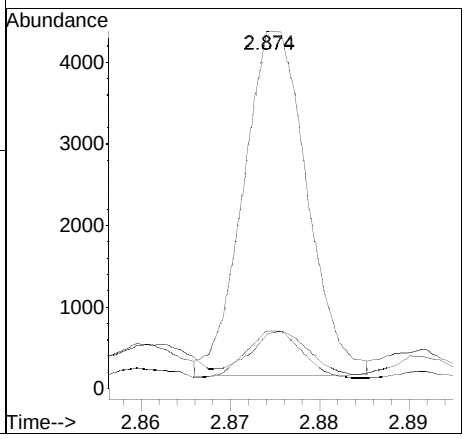


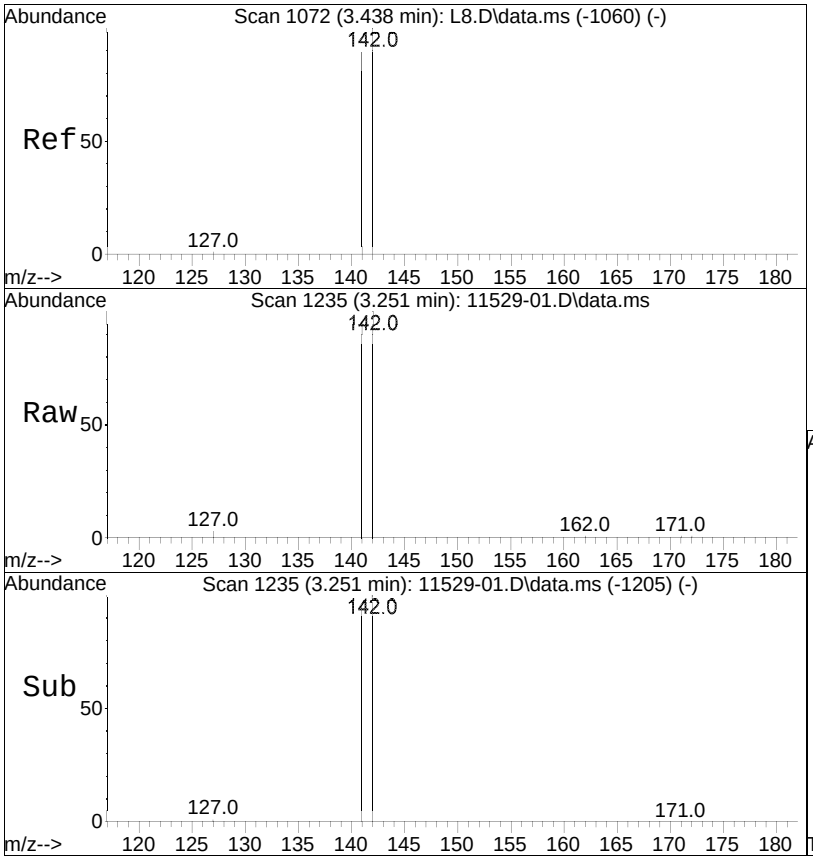


#10
Naphthalene
Concen: 5.95 ng/ml
RT: 2.874 min Scan# 1032
Delta R.T. 0.007 min
Lab File: 11529-01.D
Acq: 05 Mar 2025 03:25 pm

Tgt Ion:128 Resp: 2074

Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.0	13.6#
127	12.8	10.5	15.7

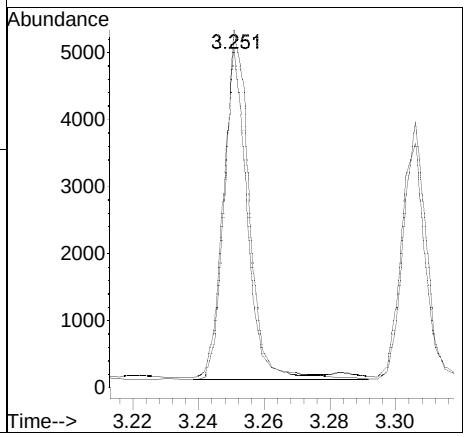


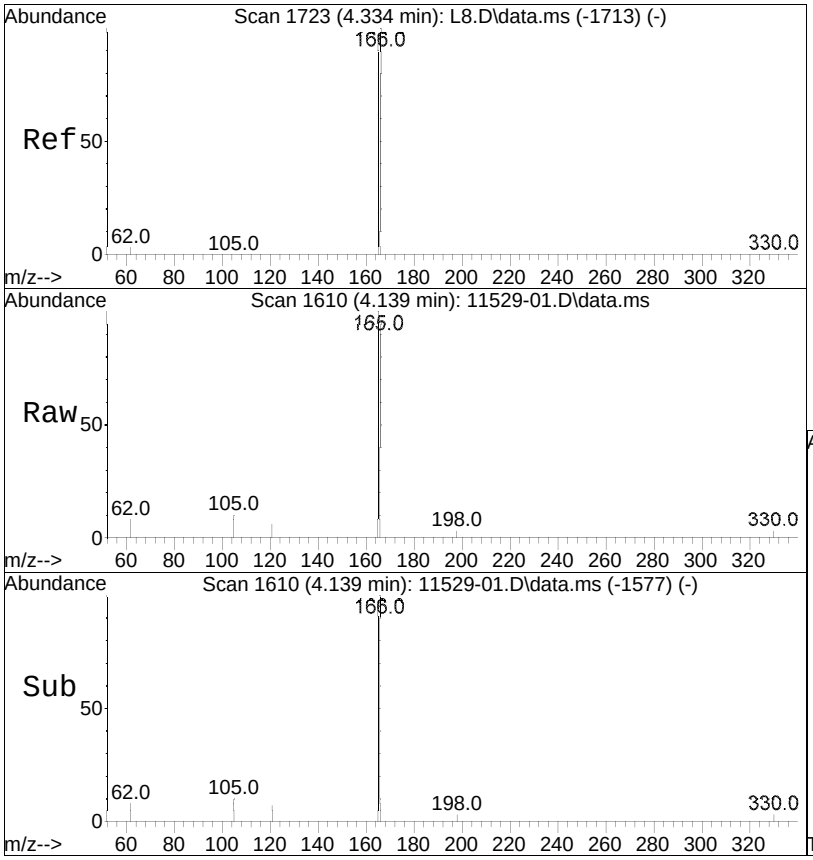


#12
2-Methylnaphthalene
Concen: 11.10 ng/ml
RT: 3.251 min Scan# 1235
Delta R.T. 0.006 min
Lab File: 11529-01.D
Acq: 05 Mar 2025 03:25 pm

Tgt Ion:142 Resp: 2701

Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.3	106.9

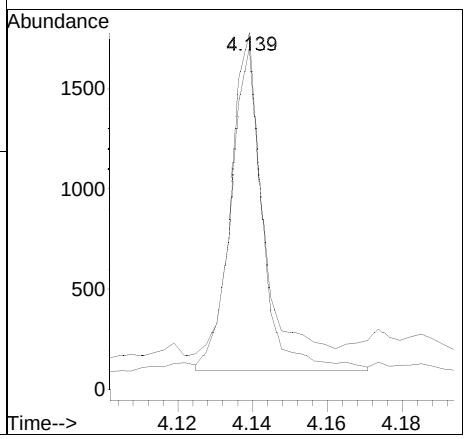


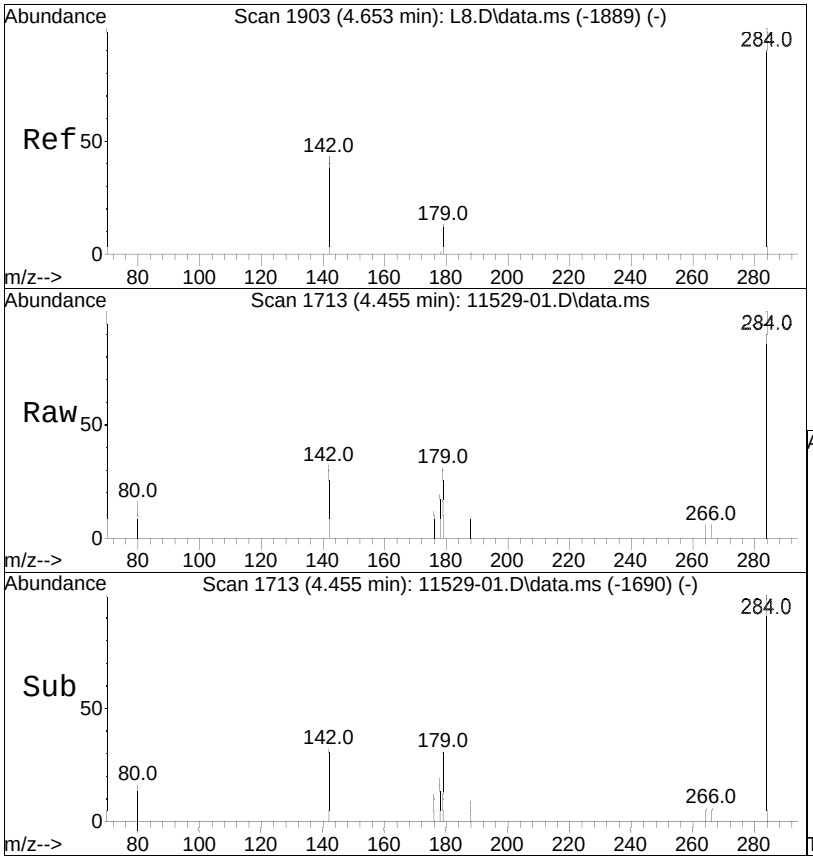


#21
Fluorene
Concen: 3.44 ng/ml M6
RT: 4.139 min Scan# 1610
Delta R.T. 0.006 min
Lab File: 11529-01.D
Acq: 05 Mar 2025 03:25 pm

Tgt Ion:166 Resp: 957

Ion	Ratio	Lower	Upper
166	100		
165	96.4	77.8	116.8

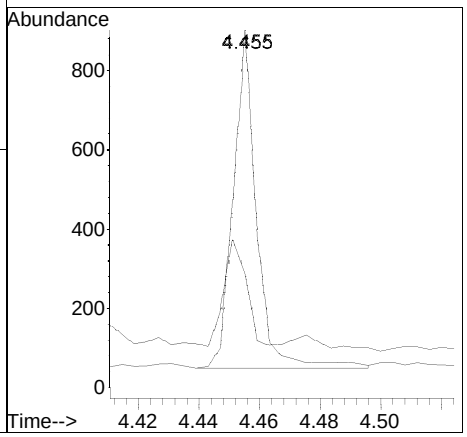


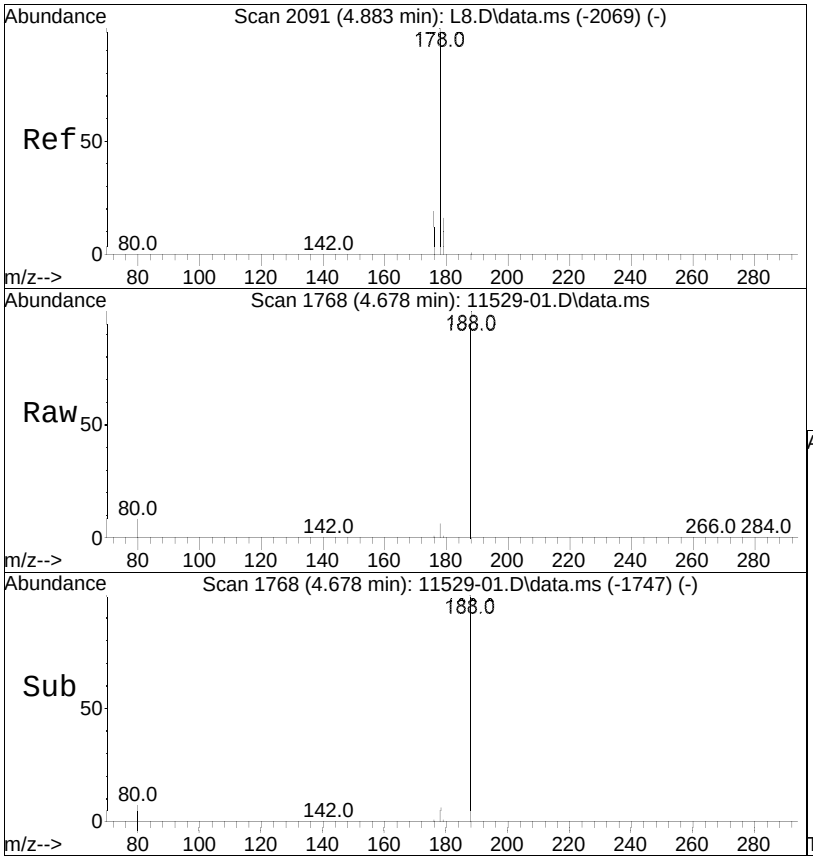


#25
Hexachlorobenzene
Concen: 5.46 ng/ml
RT: 4.455 min Scan# 1713
Delta R.T. 0.006 min
Lab File: 11529-01.D
Acq: 05 Mar 2025 03:25 pm

Tgt Ion:284 Resp: 444

Ion	Ratio	Lower	Upper
284	100		
142	30.4	33.8	50.6#

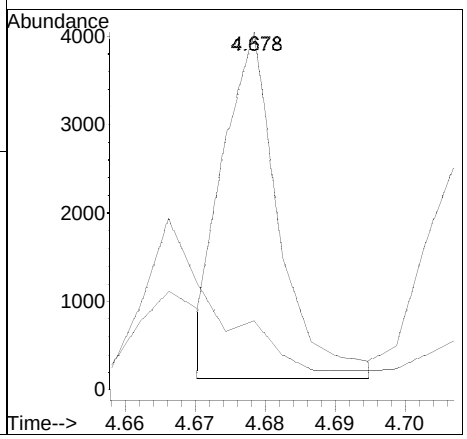


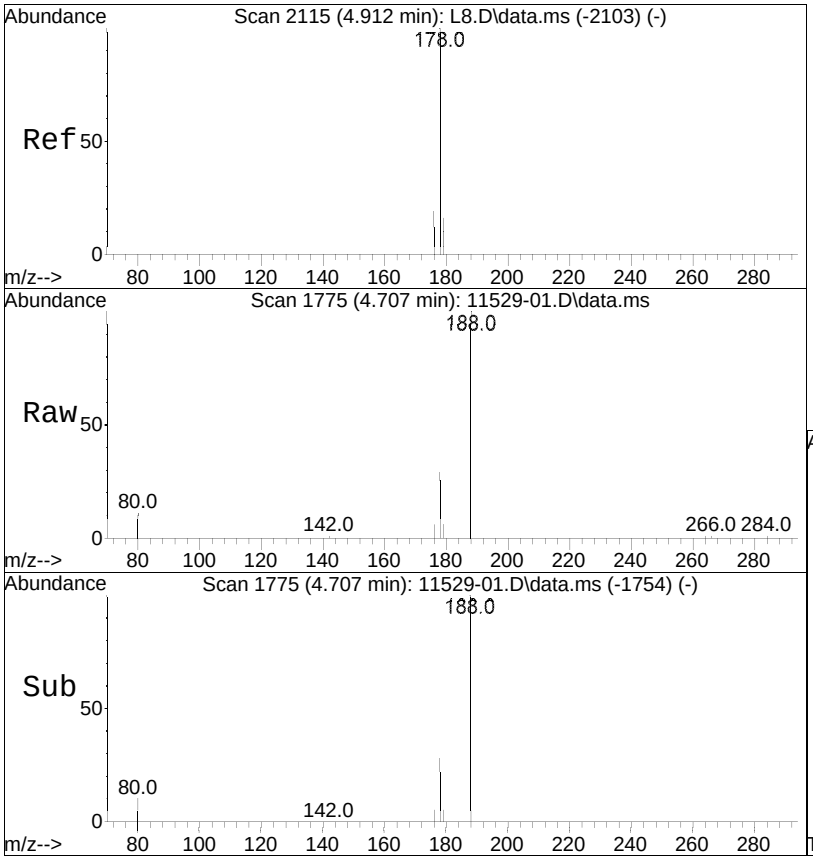


#27
Phenanthrene
Concen: 5.34 ng/ml M6
RT: 4.678 min Scan# 1768
Delta R.T. 0.006 min
Lab File: 11529-01.D
Acq: 05 Mar 2025 03:25 pm

Tgt Ion:178 Resp: 2152

Ion	Ratio	Lower	Upper
178	100		
179	12.8	12.8	19.2#

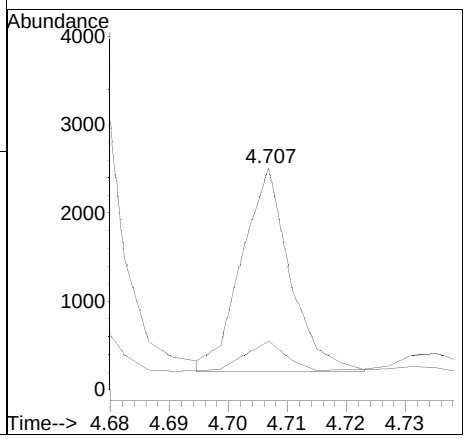




#28
Anthracene
Concen: 3.21 ng/ml M4
RT: 4.707 min Scan# 1775
Delta R.T. 0.006 min
Lab File: 11529-01.D
Acq: 05 Mar 2025 03:25 pm

Tgt Ion:178 Resp: 1298

Ion	Ratio	Lower	Upper
178	100		
179	17.9	12.6	18.8

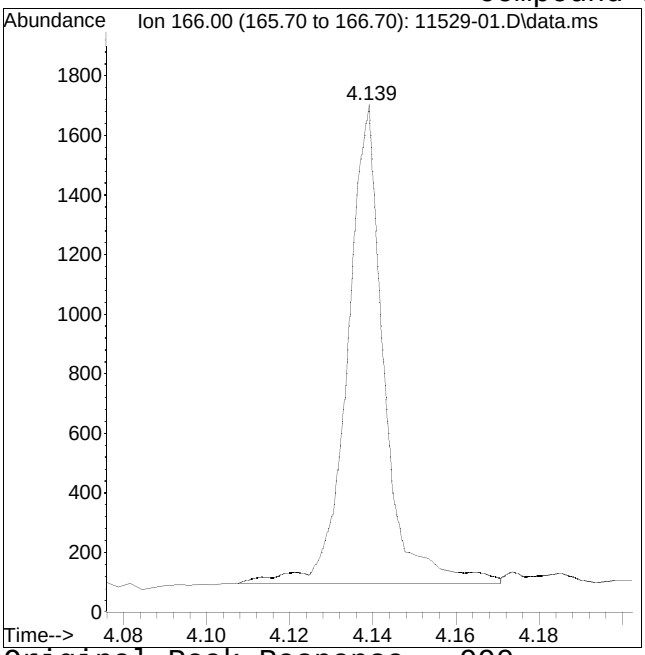


Manual Integration Report

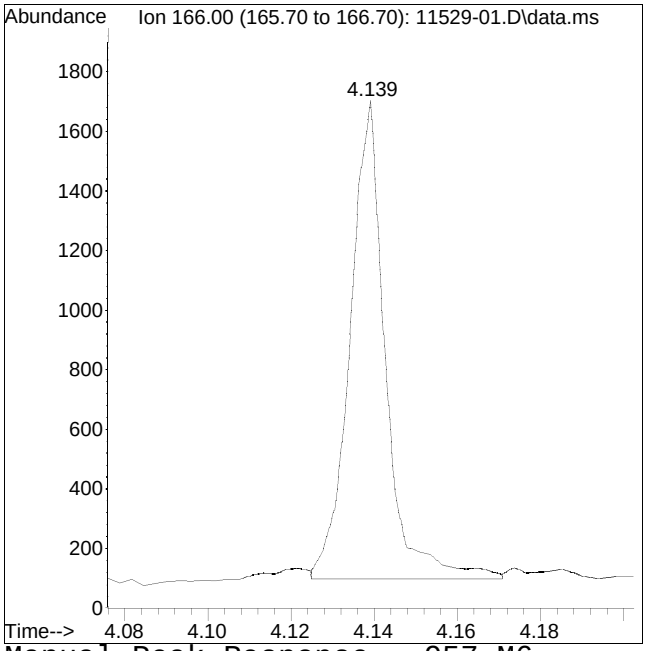
Data Path : I:\8270SIM\sv119\250305RVTQ
Data File : 11529-01.D
Date Inj'd : 3/5/2025 3:25 pm
Sample : L2511529-01,32,,kmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:rp
Instrument : SV119
Quant Date : 3/5/2025 3:39 pm

Compound #21: Fluorene



Original Peak Response = 990



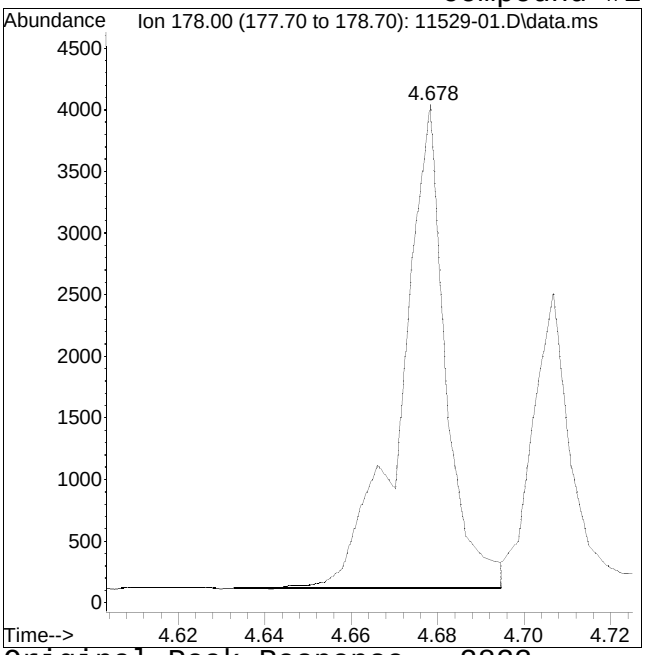
Manual Peak Response = 957 M6

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

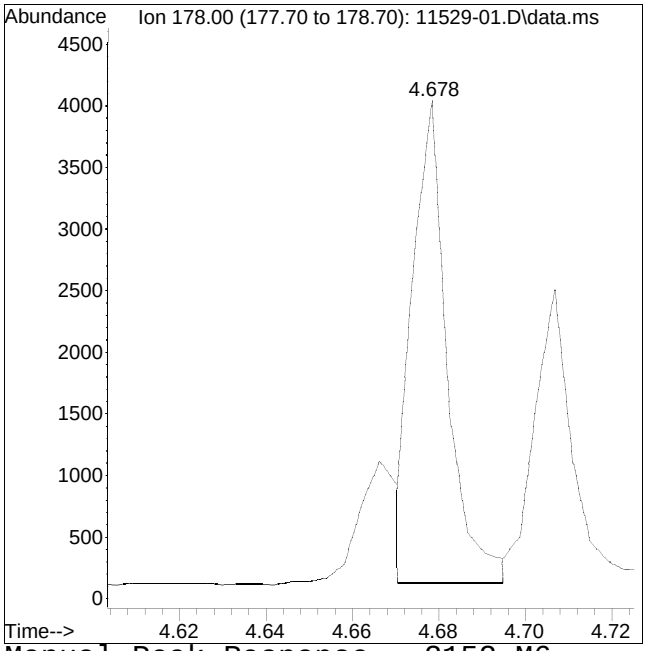
Manual Integration Report

Data Path : I:\8270SIM\sv119\250305RVTQMethod : SIM-RVT_241229_sv119.M
Data File : 11529-01.D Operator : sv119:rp
Date Inj'd : 3/5/2025 3:25 pm Instrument : SV119
Sample : L2511529-01,32,,kmh Quant Date : 3/5/2025 3:39 pm

Compound #27: Phenanthrene



Original Peak Response = 2823



Manual Peak Response = 2152 M6

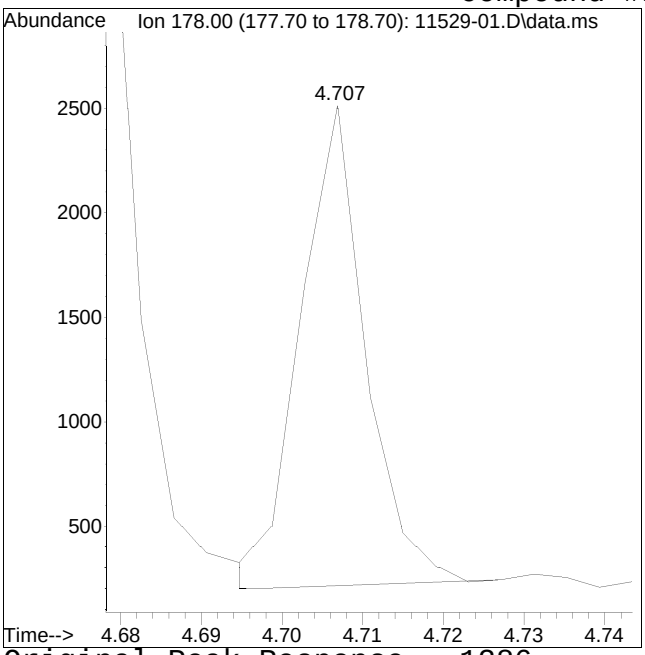
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

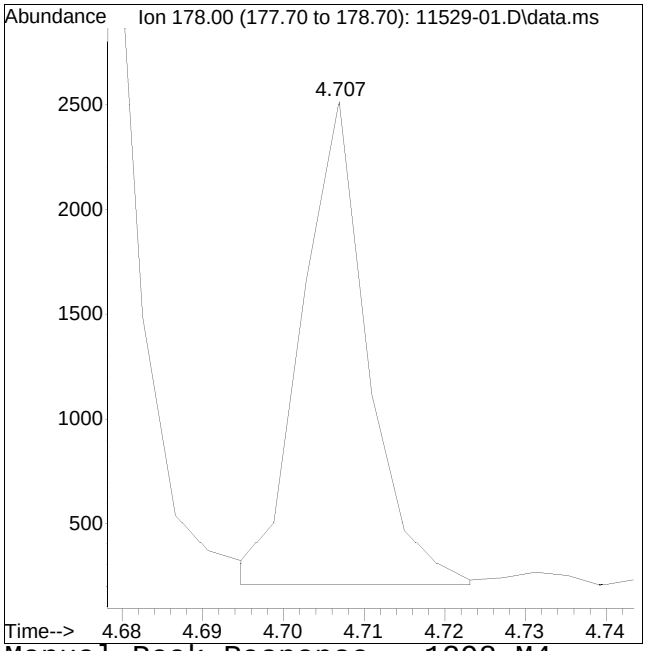
Data Path : I:\8270SIM\sv119\250305RVTQ
Data File : 11529-01.D
Date Inj'd : 3/5/2025 3:25 pm
Sample : L2511529-01,32,,kmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:rp
Instrument : SV119
Quant Date : 3/5/2025 3:39 pm

Compound #28: Anthracene



Original Peak Response = 1286



Manual Peak Response = 1298 M4

M4 = Poor automated baseline construction.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL21826**
Calibration dates	**: 12/29/24 13:37 12/29/24 16:09**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =ccv0205a.D L9 =L
L10 =L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	s	2-Fluorophenol		1.194	1.049	1.050	1.065	0.971	1.054	1.080	1.098	1.085	1.072	5.45
3)	s	Phenol-d6		1.497	1.292	1.304	1.309	1.168	1.318	1.365	1.398	1.388	1.338	6.77
4)	T	bis(2-Chloroethyl)ether			1.307	1.266	1.553	1.083	1.183	1.165	1.180	1.141	1.235	11.84
5)	T	n-Nitrosodi-n-propylamine		0.837	0.808	0.833	0.812	0.724	0.826	0.837	0.889	0.880	0.827	5.75
6)	t	Hexachloroethane		0.655	0.513	0.522	0.518	0.458	0.500	0.499	0.506	0.495	0.518	10.54
7)	s	Nitrobenzene-d5		1.380	1.332	1.291	1.325	1.150	1.295	1.287	1.325	1.289	1.297	4.83
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene	1.204	1.406	1.128	1.129	1.123	0.990	1.072	1.048	1.051	1.005	1.116	10.81
10)	t	Hexachlorobutadiene		0.230	0.206	0.202	0.201	0.178	0.192	0.187	0.189	0.183	0.196	7.94
11)	t	2-Methylnaphthalene	0.833	0.914	0.778	0.783	0.800	0.703	0.761	0.749	0.753	0.721	0.780	7.71
12)	t	1-Methylnaphthalene	0.767	0.829	0.720	0.727	0.739	0.652	0.707	0.691	0.689	0.659	0.718	7.32
13)	s	2-Fluorobiphenyl		1.155	0.985	0.990	1.010	0.877	0.949	0.922	0.914		0.975	8.73
14)	t	2-Chloronaphthalene		0.942	0.813	0.825	0.837	0.739	0.792	0.774	0.778	0.748	0.805	7.56
15)	t	2,6-Dinitrotoluene					0.191	0.171	0.200	0.204	0.215	0.210	0.198	7.92
16)	t	Acenaphthylene	1.300	1.472	1.249	1.250	1.283	1.127	1.221	1.209	1.212	1.147	1.247	7.67
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene	1.410	1.530	1.355	1.333	1.362	1.213	1.307	1.288	1.299	1.244	1.334	6.72
19)	t	2,4-Dinitrotoluene					0.369	0.351	0.432	0.447	0.479	0.469	0.424	12.45
20)	t	Fluorene	1.590	1.759	1.495	1.502	1.566	1.395	1.529	1.516	1.527	1.448	1.533	6.31
21)	s	2,4,6-Tribromophenol		0.198	0.156	0.146	0.157	0.151	0.180	0.186	0.200	0.197	0.175	12.68
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.083	0.079	0.111	0.122	0.135	0.137	*L	0.9975
24)	t	Hexachlorobenzene		0.289	0.238	0.240	0.239	0.212	0.227	0.219	0.222		0.236	10.08
25)	t	Pentachlorophenol				0.234	0.138	0.101	0.094	0.116	0.140	0.144	*Q	0.9961
26)	t	Phenanthrene	1.294	1.376	1.172	1.163	1.200	1.069	1.143	1.111	1.116	1.050	1.170	8.58
27)	t	Anthracene	1.275	1.363	1.165	1.157	1.187	1.066	1.158	1.129	1.143	1.082	1.173	7.51
28)	t	Fluoranthene	1.590	1.707	1.447	1.422	1.488	1.319	1.431	1.393	1.372		1.463	8.13
29)	t	Pyrene	1.620	1.738	1.506	1.482	1.544	1.370	1.491	1.436	1.406		1.510	7.49
30)	s	4-Terphenyl-d14			1.036	1.008	1.068	0.945	1.001	0.958	0.931		0.992	5.06
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene	1.237	0.709	0.355	0.247	0.168	0.137	0.145	0.141	0.145	0.139	*L	0.9995
33)	t	3,3'-Dichlorobenzidine					0.337	0.313	0.410	0.451	0.523	0.526	*L	0.9962
34)	t	Chrysene	1.465	1.591	1.379	1.371	1.369	1.249	1.376	1.320	1.353	1.300	1.377	6.83
35)	T	bis(2-Ethylhexyl)phthalate					0.614	0.557	0.715	0.739	0.828	0.834	0.714	15.65
36)	i	Perylene-d12	----------ISTD----------											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2511529**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL21826**
Calibration dates	**: 12/29/24 13:37 12/29/24 16:09**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =ccv0205a.D L9 =L
L10 =L10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.378	1.493	1.304	1.278	1.294	1.169	1.356	1.333	1.331	1.320	1.326	6.17
38) t	Benzo[k]fluoranthene	1.407	1.441	1.210	1.216	1.311	1.209	1.358	1.298	1.361	1.261	1.307	6.40
39) t	Benzo[a]pyrene	1.147	1.221	1.050	1.049	1.083	0.999	1.169	1.154	1.202	1.175	1.125	6.63
40) t	Indeno[1,2,3-cd]pyrene	1.094	1.170	1.014	1.008	1.020	0.953	1.135	1.138	1.177	1.182	1.089	7.67
41) t	Dibenzo[a,h]anthracene	0.964	1.027	0.910	0.921	0.957	0.929	1.106	1.087	1.111	1.092	1.010	8.18
42) t	Benzo[g,h,i]perylene	1.076	1.108	0.966	0.976	0.982	0.929	1.078	1.071	1.097	1.083	1.036	6.31

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250205aRVT\
Method File : SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Feb 05 07:16:40 2025
Response Via : Initial Calibration

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =ccv0205a.D L9 =L
L10 =L10.D

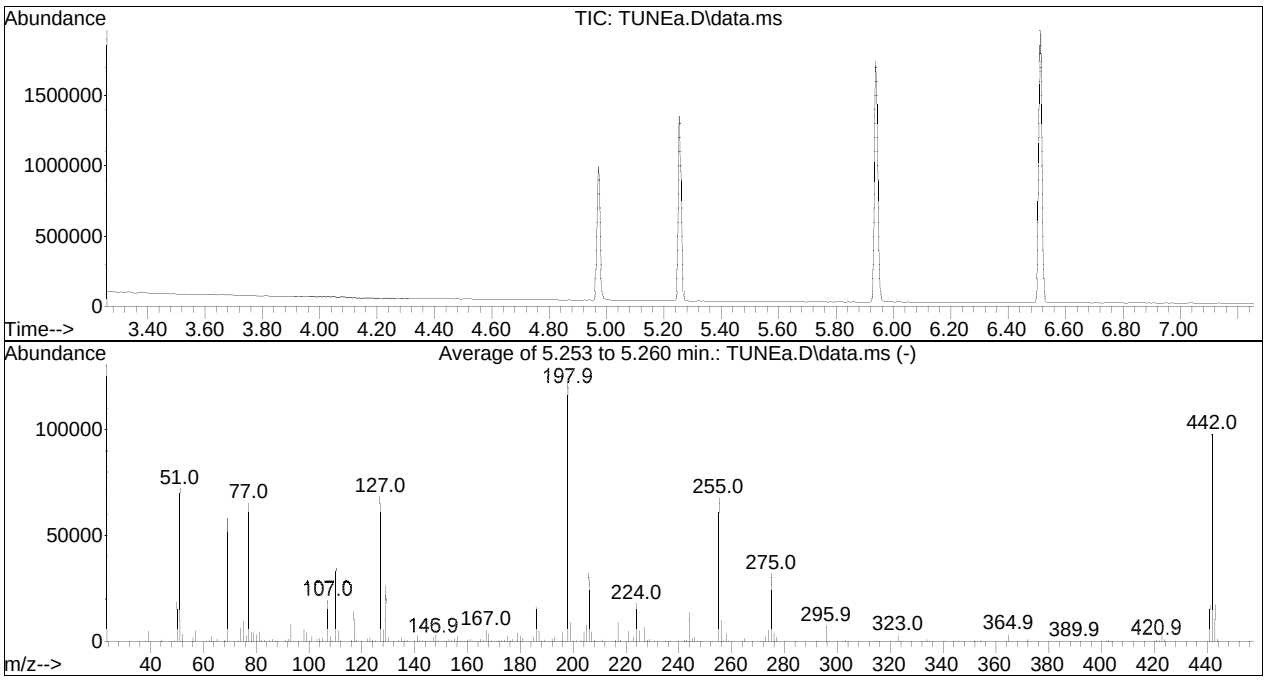
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol		1.194	1.049	1.050	1.065	0.971	1.054	1.080	1.098	1.085	1.072	5.45
3)	s	Phenol-d6		1.497	1.292	1.304	1.309	1.168	1.318	1.365	1.398	1.388	1.338	6.77
4)	T	bis(2-Chloroethyl)ether			1.307	1.266	1.553	1.083	1.183	1.165	1.180	1.141	1.235	11.84
5)	T	n-Nitrosodi-n-propylamine		0.837	0.808	0.833	0.812	0.724	0.826	0.837	0.889	0.880	0.827	5.75
6)	t	Hexachloroethane		0.655	0.513	0.522	0.518	0.458	0.500	0.499	0.506	0.495	0.518	10.54
7)	s	Nitrobenzene-d5		1.380	1.332	1.291	1.325	1.150	1.295	1.287	1.325	1.289	1.297	4.83
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.204	1.406	1.128	1.129	1.123	0.990	1.072	1.048	1.051	1.005	1.116	10.81
10)	t	Hexachlorobutadiene		0.230	0.206	0.202	0.201	0.178	0.192	0.187	0.189	0.183	0.196	7.94
11)	t	2-Methylnaphthalene	0.833	0.914	0.778	0.783	0.800	0.703	0.761	0.749	0.753	0.721	0.780	7.71
12)	t	1-Methylnaphthalene	0.767	0.829	0.720	0.727	0.739	0.652	0.707	0.691	0.689	0.659	0.718	7.32
13)	s	2-Fluorobiphenyl		1.155	0.985	0.990	1.010	0.877	0.949	0.922	0.914		0.975	8.73
14)	t	2-Chloronaphthalene		0.942	0.813	0.825	0.837	0.739	0.792	0.774	0.778	0.748	0.805	7.56
15)	t	2,6-Dinitrotoluene					0.191	0.171	0.200	0.204	0.215	0.210	0.198	7.92
16)	t	Acenaphthylene	1.300	1.472	1.249	1.250	1.283	1.127	1.221	1.209	1.212	1.147	1.247	7.67
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.410	1.530	1.355	1.333	1.362	1.213	1.307	1.288	1.299	1.244	1.334	6.72
19)	t	2,4-Dinitrotoluene					0.369	0.351	0.432	0.447	0.479	0.469	0.424	12.45
20)	t	Fluorene	1.590	1.759	1.495	1.502	1.566	1.395	1.529	1.516	1.527	1.448	1.533	6.31
21)	s	2,4,6-Tribromophenol		0.198	0.156	0.146	0.157	0.151	0.180	0.186	0.200	0.197	0.175	12.68
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.083	0.079	0.111	0.122	0.135	0.137	*L	0.9975
24)	t	Hexachlorobenzene		0.289	0.238	0.240	0.239	0.212	0.227	0.219	0.222		0.236	10.08
25)	t	Pentachlorophenol				0.234	0.138	0.101	0.094	0.116	0.140	0.144	*Q	0.9961
26)	t	Phenanthrene	1.294	1.376	1.172	1.163	1.200	1.069	1.143	1.111	1.116	1.050	1.170	8.58
27)	t	Anthracene	1.275	1.363	1.165	1.157	1.187	1.066	1.158	1.129	1.143	1.082	1.173	7.51
28)	t	Fluoranthene	1.590	1.707	1.447	1.422	1.488	1.319	1.431	1.393	1.372		1.463	8.13
29)	t	Pyrene	1.620	1.738	1.506	1.482	1.544	1.370	1.491	1.436	1.406		1.510	7.49
30)	s	4-Terphenyl-d14			1.036	1.008	1.068	0.945	1.001	0.958	0.931		0.992	5.06
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	1.237	0.709	0.355	0.247	0.168	0.137	0.145	0.141	0.145	0.139	*L	0.9995
33)	t	3,3'-Dichlorobenzidine					0.337	0.313	0.410	0.451	0.523	0.526	*L	0.9962
34)	t	Chrysene	1.465	1.591	1.379	1.371	1.369	1.249	1.376	1.320	1.353	1.300	1.377	6.83
35)	T	bis(2-Ethylhexyl)phthalate					0.614	0.557	0.715	0.739	0.828	0.834	0.714	15.65
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.378	1.493	1.304	1.278	1.294	1.169	1.356	1.333	1.331	1.320	1.326	6.17
38)	t	Benzo[k]fluora...	1.407	1.441	1.210	1.216	1.311	1.209	1.358	1.298	1.361	1.261	1.307	6.40
39)	t	Benzo[a]pyrene	1.147	1.221	1.050	1.049	1.083	0.999	1.169	1.154	1.202	1.175	1.125	6.63
40)	t	Indeno[1,2,3-c...	1.094	1.170	1.014	1.008	1.020	0.953	1.135	1.138	1.177	1.182	1.089	7.67
41)	t	Dibenzo[a,h]anthracene	0.964	1.027	0.910	0.921	0.957	0.929	1.106	1.087	1.111	1.092	1.010	8.18
42)	t	Benzo[g,h,i]pe...	1.076	1.108	0.966	0.976	0.982	0.929	1.078	1.071	1.097	1.083	1.036	6.31

(#) = Out of Range

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 30 14:10:06 2024



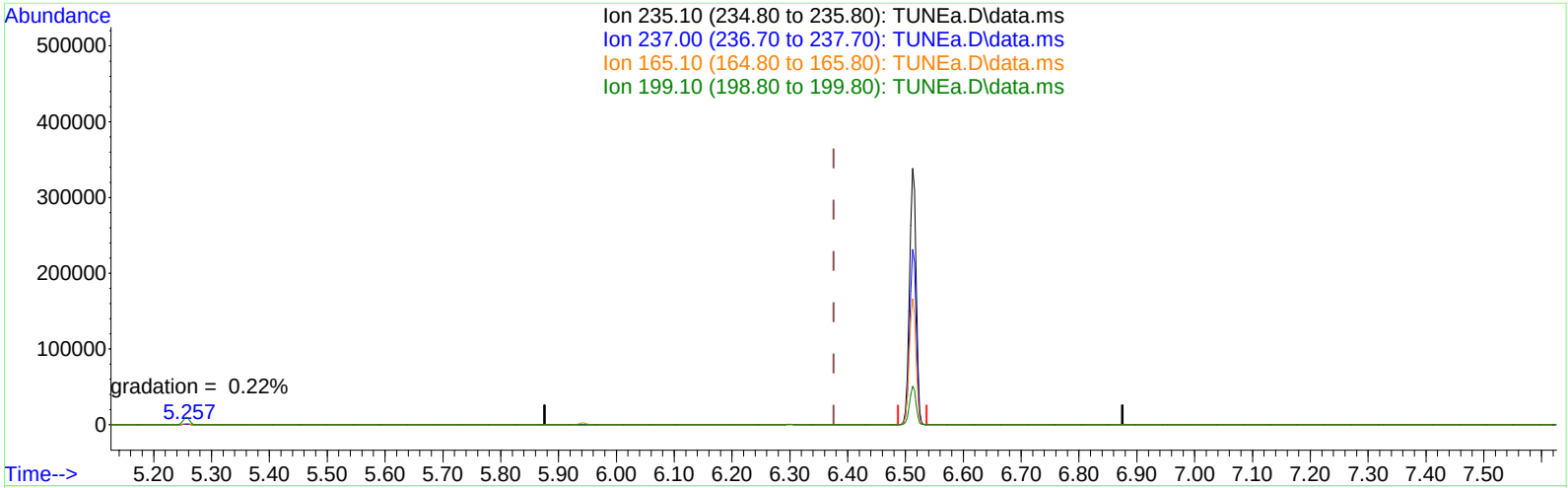
Spectrum Information: Average of 5.253 to 5.260 min.

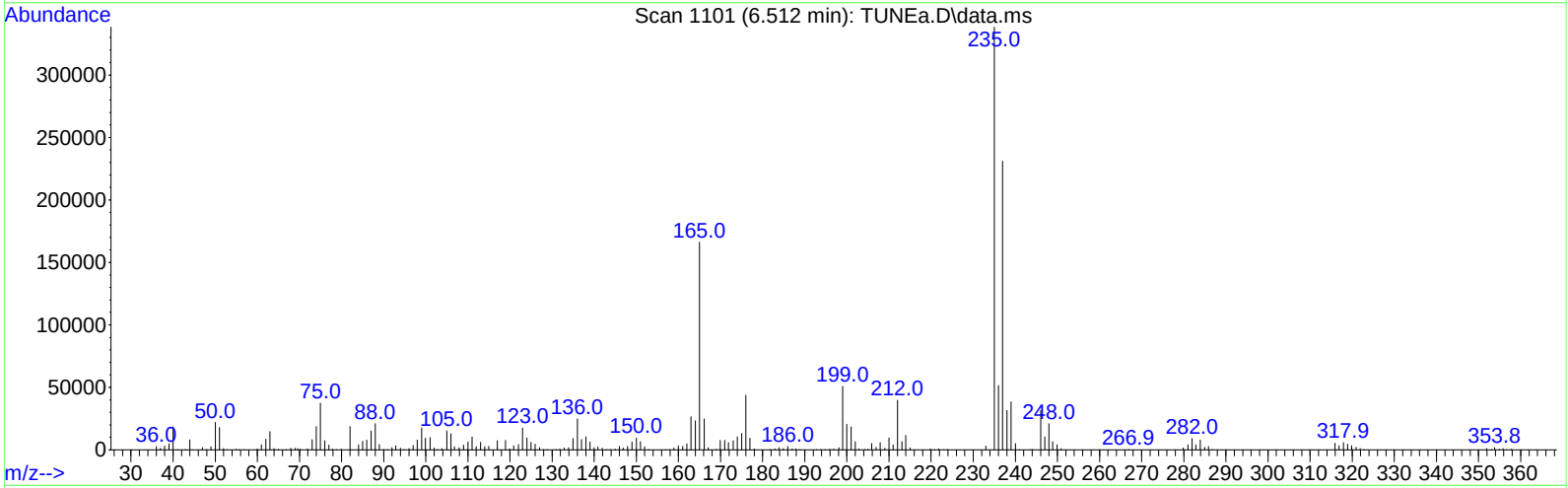
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.0	72220	PASS
68	69	0.00	2	1.8	1027	PASS
69	69	100	100	100.0	58144	PASS
70	69	0.00	2	0.4	254	PASS
127	198	10	80	54.8	68219	PASS
197	198	0.00	2	0.4	477	PASS
198	198	100	100	100.0	124584	PASS
199	198	5	9	7.0	8733	PASS
275	198	10	60	25.6	31883	PASS
365	198	1	100	2.6	3257	PASS
441	442	0.01	24	17.1	16738	PASS
442	198	50	100	78.7	98011	PASS
443	442	15	24	17.4	17081	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 29 13:32:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 27 15:06:27 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(6) ddt (T)

6.512min (+ 0.136) 43.92

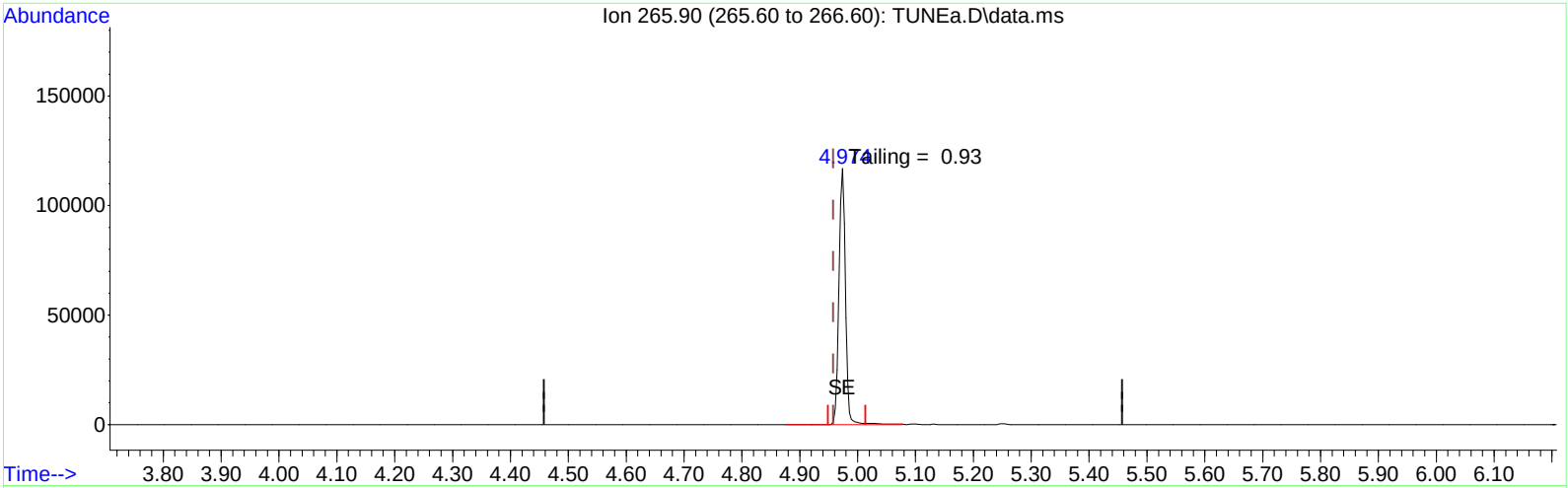
response 267725

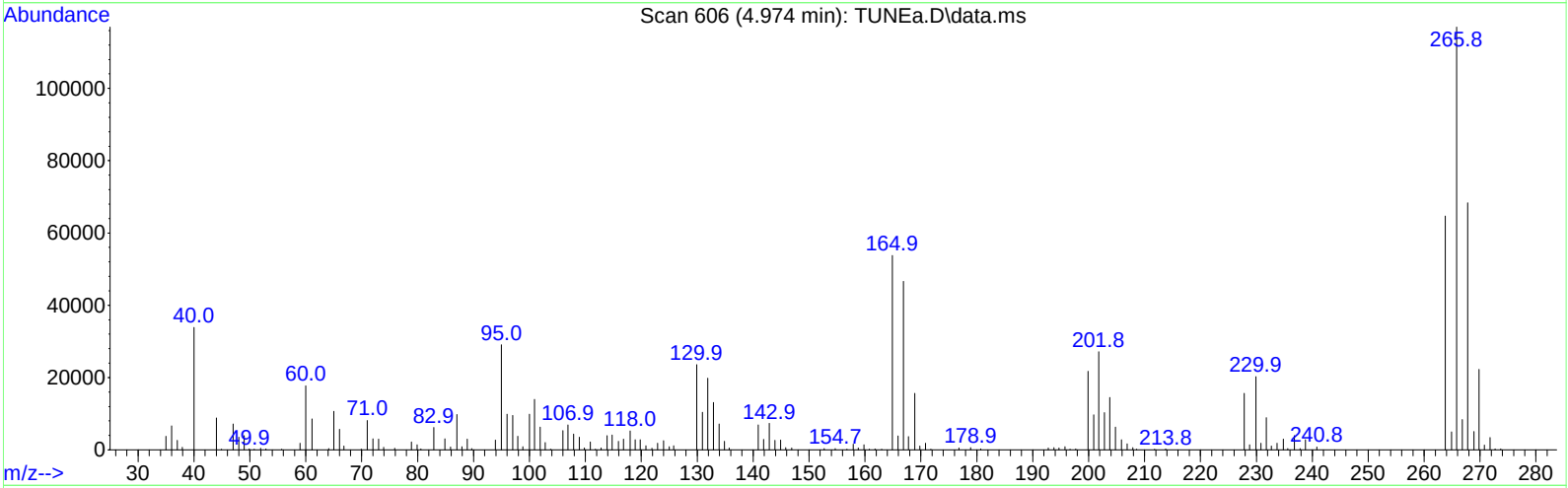
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	67.99
165.10	53.30	49.37
199.10	17.10	14.67

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 29 13:32:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 27 15:06:27 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.974min (+ 0.016) 43.16

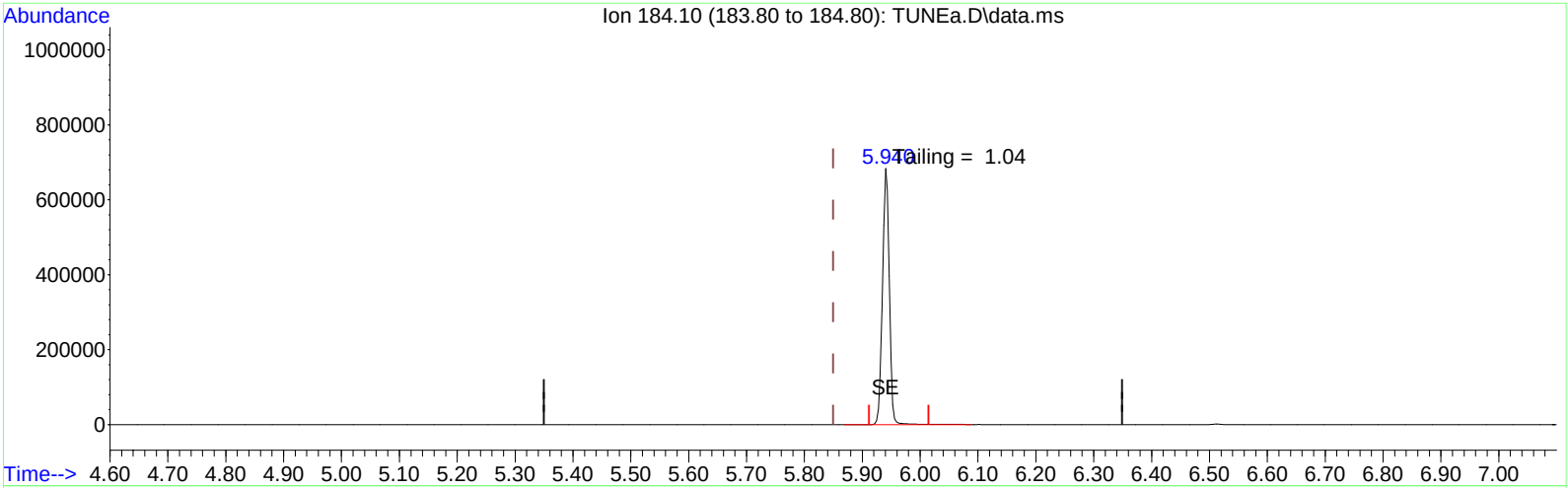
response 90650

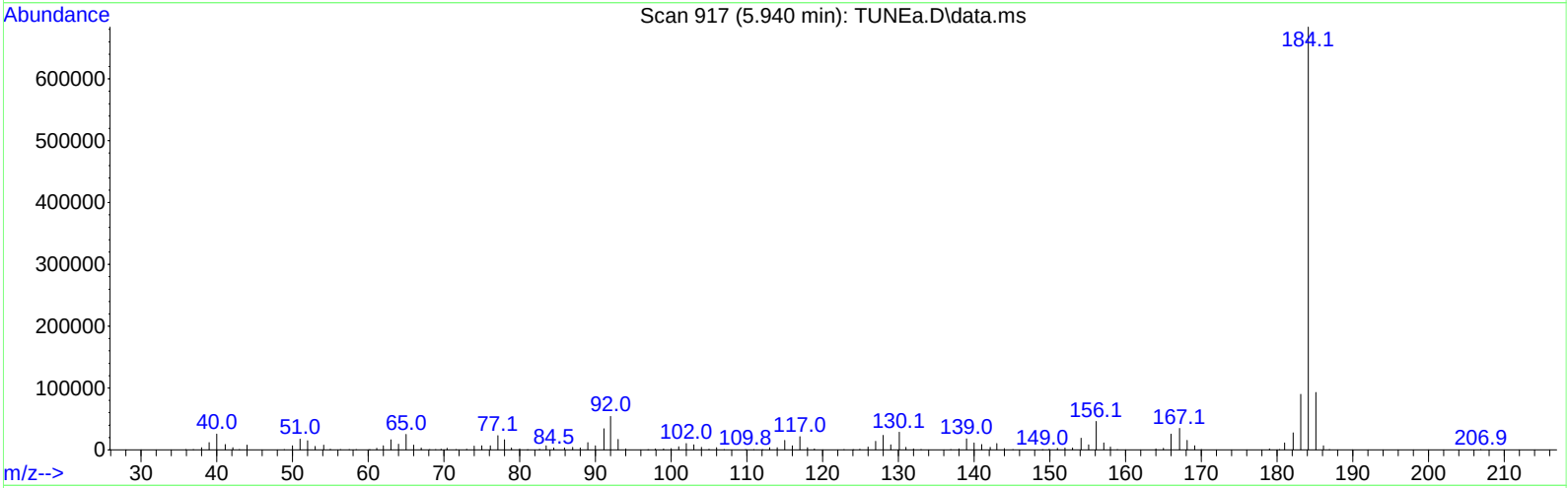
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 29 13:32:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 27 15:06:27 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(3) benzidine (T)

5.940min (+ 0.090) 55.19

response 561817

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L10.D
Acq On : 29 Dec 2024 01:37 pm
Operator : sv119:jjw
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 31 16:07:10 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.340	152	348275	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 113.97%			
8) Naphthalene-d8	3.003	136	1330364	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 116.04%			
17) Acenaphthene-d10	3.980	164	838143	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 117.25%			
22) Phenanthrene-d10	4.824	188	1768675	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 116.28%			
31) Chrysene-d12	6.464	240	1711433	4000.000	ng/ml	0.02
Standard Area 1 = 1553026			Recovery = 110.20%			
36) Perylene-d12	7.769	264	1750457	4000.000	ng/ml	0.02
Standard Area 1 = 1562574			Recovery = 112.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.751	112	472357	5061.900	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 253.09%#			
3) Phenol-d6	2.147	99	604405	5189.373	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 259.47%#			
7) Nitrobenzene-d5	2.621	82	561304	4969.811	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 496.98%#			
13) 2-Fluorobiphenyl	3.597	172	1432759	4416.607	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 441.66%#			
21) 2,4,6-Tribromophenol	4.426	330	206277	5638.961	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 281.95%#			
30) 4-Terphenyl-d14	5.772	244	1940016	4421.517	ng/ml	0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 442.15%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.203	93	496607	4619.555	ng/ml#	78
5) n-nitrosodi-n-propylamine	2.540	70	383143	5318.010	ng/ml	100
6) Hexachloroethane	2.600	117	215330	4770.086	ng/ml	94
9) Naphthalene	3.015	128	1671836	4505.835	ng/ml	99
10) Hexachlorobutadiene	3.084	225	304831	4668.432	ng/ml	100
11) 2-Methylnaphthalene	3.393	142	1198947	4624.033	ng/ml	98
12) 1-Methylnaphthalene	3.448	142	1095173	4587.255	ng/ml	98
14) 2-Chloronaphthalene	3.664	162	1244316	4646.626	ng/ml	97
15) 2,6-Dinitrotoluene	3.857	165	349015	5288.657	ng/ml#	91
16) Acenaphthylene	3.898	152	1908137	4601.153	ng/ml	99
18) Acenaphthene	3.998	153	1302852	4660.794	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L10.D
Acq On : 29 Dec 2024 01:37 pm
Operator : sv119:jjw
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 31 16:07:10 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.086	165	490910	5520.724	ng/ml#	75
20) Fluorene	4.290	166	1517338	4724.560	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.319	198	303012	5103.808	ng/ml	99
24) Hexachlorobenzene	4.607	284	472069	4528.048	ng/ml	91
25) Pentachlorophenol	4.718	266	318419	4932.491	ng/ml	100
26) Phenanthrene	4.838	178	2321862	4489.867	ng/ml	100
27) Anthracene	4.866	178	2392350	4614.136	ng/ml	99
28) Fluoranthene	5.538	202	2844606	4396.700	ng/ml	98
29) Pyrene	5.677	202	2884960	4320.017	ng/ml	99
32) Benzo[a]anthracene	6.455	228	2973633	4935.581	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.440	252	1124922	5116.132	ng/ml	100
34) Chrysene	6.484	228	2781095	4719.620	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.481	149	1783851	5835.435	ng/ml	100
37) Benzo[b]fluoranthene	7.370	252	2888340	4978.758	ng/ml	99
38) Benzo[k]fluoranthene	7.399	252	2759094	4822.834	ng/ml	99
39) Benzo[a]pyrene	7.705	252	2570234	5221.315	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.084	276	2585550	5425.382	ng/ml	94
41) Dibenzo[a,h]anthracene	9.122	278	2388781M6	5403.252	ng/ml	
42) Benzo[g,h,i]perylene	9.456	276	2370451	5226.027	ng/ml	93

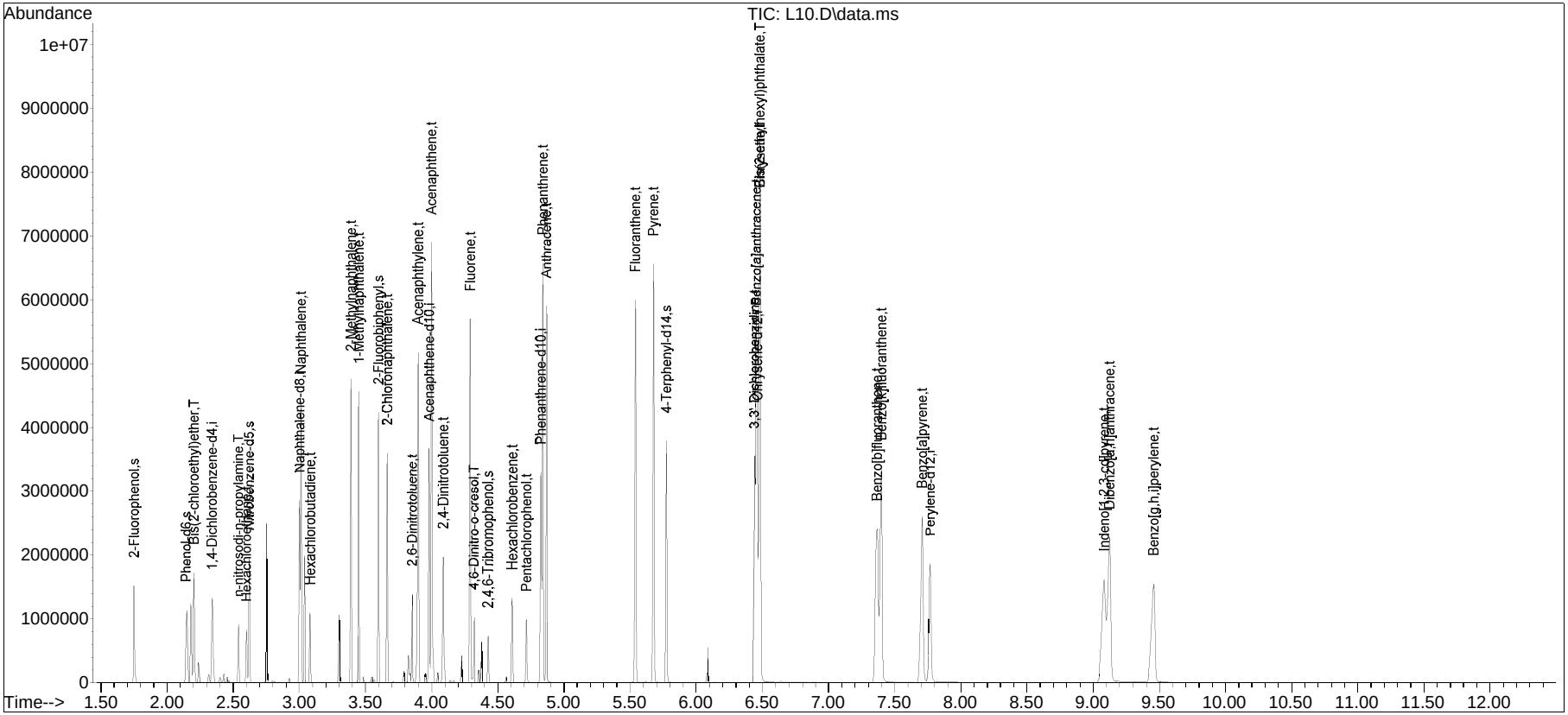
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L10.D
Acq On : 29 Dec 2024 01:37 pm
Operator : sv119:jjw
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 31 16:07:10 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:19 2024
Response via : Initial Calibration

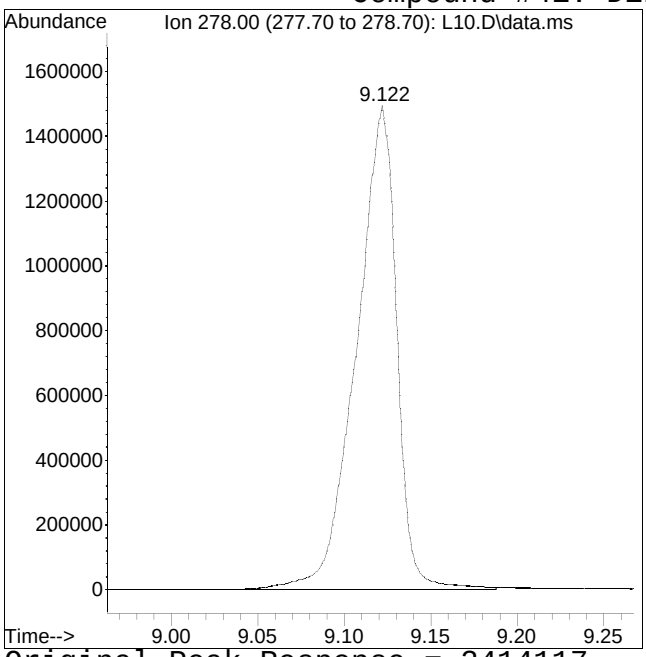
Sub List : Default - All compounds listedical\L8.D•



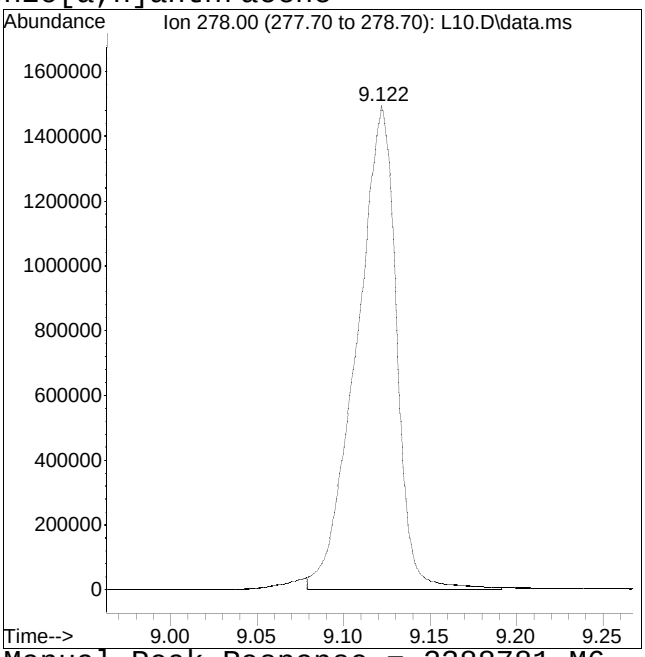
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L10.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 1:37 pm Instrument : SV119
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2414117



Manual Peak Response = 2388781 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L9.D
Acq On : 29 Dec 2024 01:53 pm
Operator : sv119:jjw
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 31 16:07:50 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.346	152	346604	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 113.43%			
8) Naphthalene-d8	3.007	136	1324130	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 115.49%			
17) Acenaphthene-d10	3.980	164	828772	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 115.94%			
22) Phenanthrene-d10	4.822	188	1758222	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 115.59%			
31) Chrysene-d12	6.445	240	1717251	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 110.57%			
36) Perylene-d12	7.753	264	1736377	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 111.12%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.755	112	237814	2560.763	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 128.04%#			
3) Phenol-d6	2.150	99	302797	2612.325	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 130.62%#			
7) Nitrobenzene-d5	2.623	82	286990	2553.273	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 255.33%#			
13) 2-Fluorobiphenyl	3.599	172	756619	2343.326	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 234.33%#			
21) 2,4,6-Tribromophenol	4.425	330	103515	2861.769	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 143.09%#			
30) 4-Terphenyl-d14	5.764	244	1022967	2345.319	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 234.53%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.206	93	255714	2390.180	ng/ml#	78
5) n-nitrosodi-n-propylamine	2.542	70	192599	2686.154	ng/ml	100
6) Hexachloroethane	2.604	117	109630	2440.281	ng/ml	93
9) Naphthalene	3.016	128	869651	2354.867	ng/ml	99
10) Hexachlorobutadiene	3.087	225	156282	2404.699	ng/ml	100
11) 2-Methylnaphthalene	3.395	142	623050	2414.258	ng/ml	98
12) 1-Methylnaphthalene	3.450	142	570089	2399.124	ng/ml	98
14) 2-Chloronaphthalene	3.666	162	643857	2415.663	ng/ml	97
15) 2,6-Dinitrotoluene	3.857	165	177710	2705.534	ng/ml#	92
16) Acenaphthylene	3.898	152	1002725	2429.287	ng/ml	99
18) Acenaphthene	3.998	153	672903	2434.447	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L9.D
Acq On : 29 Dec 2024 01:53 pm
Operator : sv119:jjw
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 31 16:07:50 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	248081	2821.439	ng/ml#	85
20) Fluorene	4.288	166	791109	2491.142	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.316	198	148490	2529.865	ng/ml	97
24) Hexachlorobenzene	4.607	284	243431	2348.853	ng/ml	90
25) Pentachlorophenol	4.718	266	154275	2689.340	ng/ml	100
26) Phenanthrene	4.836	178	1226441	2385.712	ng/ml	99
27) Anthracene	4.864	178	1256012	2436.878	ng/ml	100
28) Fluoranthene	5.531	202	1507744	2344.265	ng/ml	97
29) Pyrene	5.668	202	1545081	2327.401	ng/ml	100
32) Benzo[a]anthracene	6.436	228	1557204	2572.132	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.421	252	561473	2558.506	ng/ml	99
34) Chrysene	6.465	228	1452499	2456.593	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.463	149	888762	2897.519	ng/ml	99
37) Benzo[b]fluoranthene	7.346	252	1444231	2509.671	ng/ml	100
38) Benzo[k]fluoranthene	7.372	252	1477398	2603.399	ng/ml	97
39) Benzo[a]pyrene	7.681	252	1304908	2672.357	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.055	276	1277350	2702.058	ng/ml	94
41) Dibenzo[a,h]anthracene	9.094	278	1205173M6	2748.120	ng/ml	
42) Benzo[g,h,i]perylene	9.426	276	1190170	2645.191	ng/ml	93

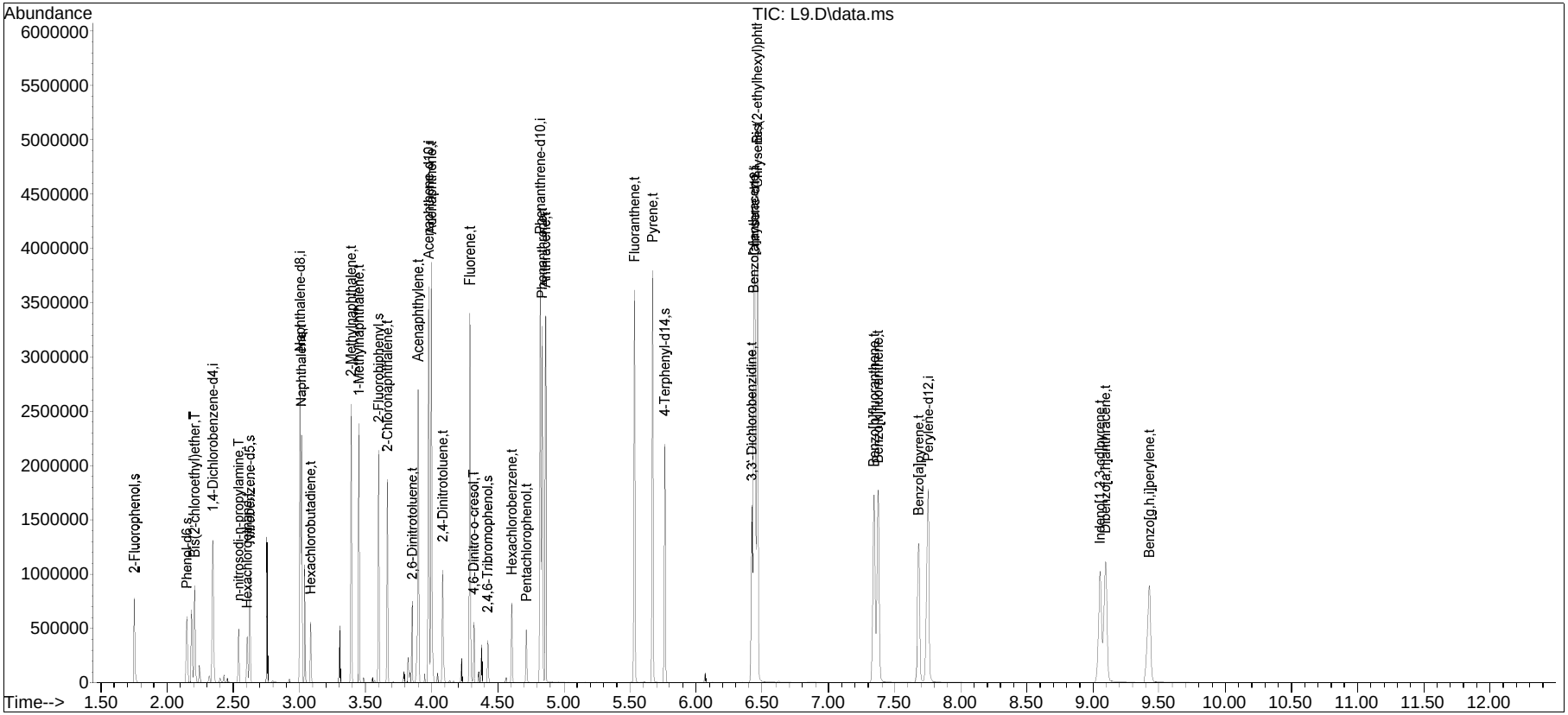
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L9.D
Acq On : 29 Dec 2024 01:53 pm
Operator : sv119:jjw
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 31 16:07:50 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:59 2024
Response via : Initial Calibration

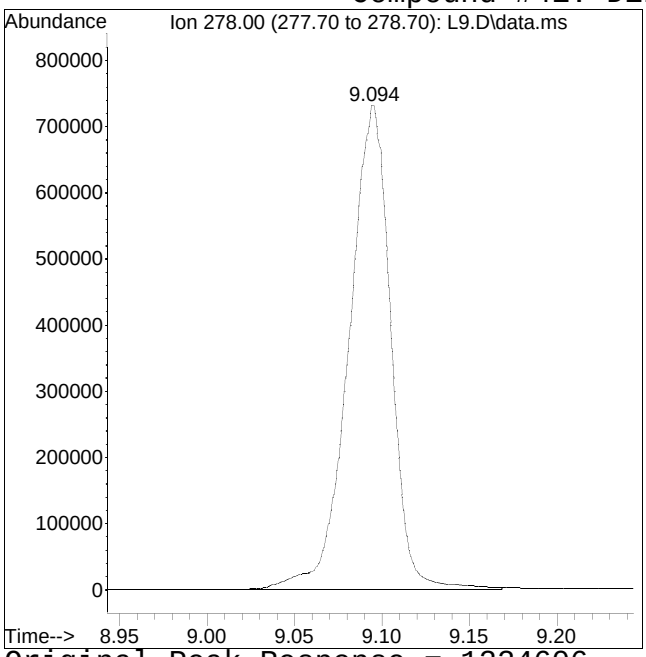
Sub List : Default - All compounds listedical\L8.D•



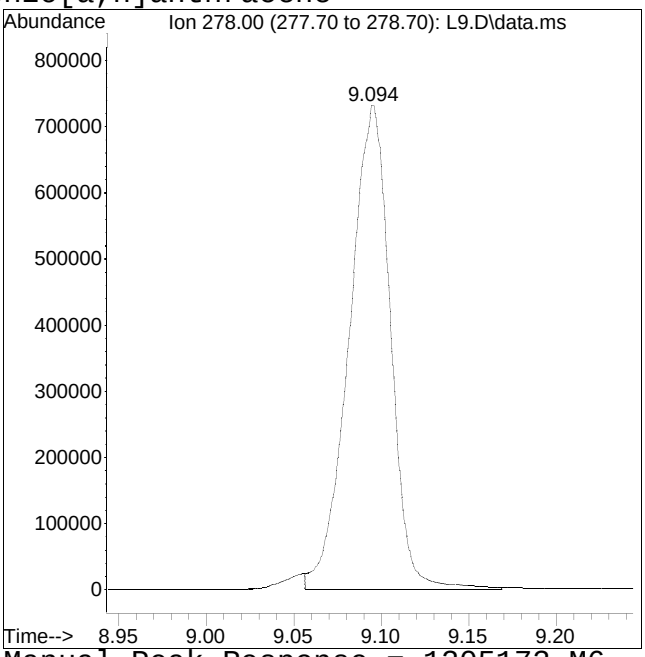
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L9.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 1:53 pm Instrument : SV119
Sample : IL9,32,, #10901 2500 ng/mlQuant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1224606



Manual Peak Response = 1205173 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L8.D
Acq On : 29 Dec 2024 02:10 pm
Operator : sv119:jjw
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 31 16:07:45 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.348	152	305578	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 100.00%			
8) Naphthalene-d8	3.007	136	1146492	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 100.00%			
17) Acenaphthene-d10	3.981	164	714823	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 100.00%			
22) Phenanthrene-d10	4.823	188	1521053	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 100.00%			
31) Chrysene-d12	6.442	240	1553026	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 100.00%			
36) Perylene-d12	7.747	264	1562574	4000.000	ng/ml	-0.02
Standard Area 1 = 1562574			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.754	112	82538	1008.085	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.40%			
3) Phenol-d6	2.149	99	104272	1020.363	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.02%			
7) Nitrobenzene-d5	2.624	82	98311	992.074	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.21%			
13) 2-Fluorobiphenyl	3.598	172	264373	945.654	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.57%			
21) 2,4,6-Tribromophenol	4.425	330	33279	1066.690	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.33%			
30) 4-Terphenyl-d14	5.762	244	364120	964.971	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.50%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.208	93	89000	943.577	ng/ml#	77
5) n-nitrosodi-n-propylamine	2.541	70	63954	1011.710	ng/ml	100
6) Hexachloroethane	2.605	117	38084	961.533	ng/ml	94
9) Naphthalene	3.018	128	300505	939.794	ng/ml	99
10) Hexachlorobutadiene	3.089	225	53732	954.870	ng/ml	100
11) 2-Methylnaphthalene	3.395	142	214708	960.879	ng/ml	98
12) 1-Methylnaphthalene	3.451	142	197962	962.169	ng/ml	98
14) 2-Chloronaphthalene	3.667	162	221813	961.155	ng/ml	98
15) 2,6-Dinitrotoluene	3.856	165	58451	1027.762	ng/ml#	91
16) Acenaphthylene	3.899	152	346408	969.269	ng/ml	100
18) Acenaphthene	3.997	153	230112	965.214	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L8.D
Acq On : 29 Dec 2024 02:10 pm
Operator : sv119:jjw
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 31 16:07:45 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.083	165	79884	1053.352	ng/ml#	84
20) Fluorene	4.289	166	270902	989.033	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.315	198	46279	928.938	ng/ml	98
24) Hexachlorobenzene	4.608	284	83312	929.216	ng/ml	90
25) Pentachlorophenol	4.716	266	44173	975.015	ng/ml	100
26) Phenanthrene	4.837	178	422591	950.213	ng/ml	99
27) Anthracene	4.864	178	429413	963.041	ng/ml	99
28) Fluoranthene	5.530	202	529706	952.014	ng/ml	97
29) Pyrene	5.667	202	546047	950.778	ng/ml	100
32) Benzo[a]anthracene	6.434	228	546693	993.722	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.417	252	175197	900.458	ng/ml	99
34) Chrysene	6.462	228	512439	958.329	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.463	149	286862	1034.115	ng/ml	99
37) Benzo[b]fluoranthene	7.343	252	520748	1005.567	ng/ml	98
38) Benzo[k]fluoranthene	7.372	252	507018	992.819	ng/ml	98
39) Benzo[a]pyrene	7.676	252	450660	1025.574	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.052	276	444586	1045.067	ng/ml	93
41) Dibenzo[a,h]anthracene	9.089	278	424467M4	1075.558	ng/ml	
42) Benzo[g,h,i]perylene	9.414	276	415191	1025.415	ng/ml	93

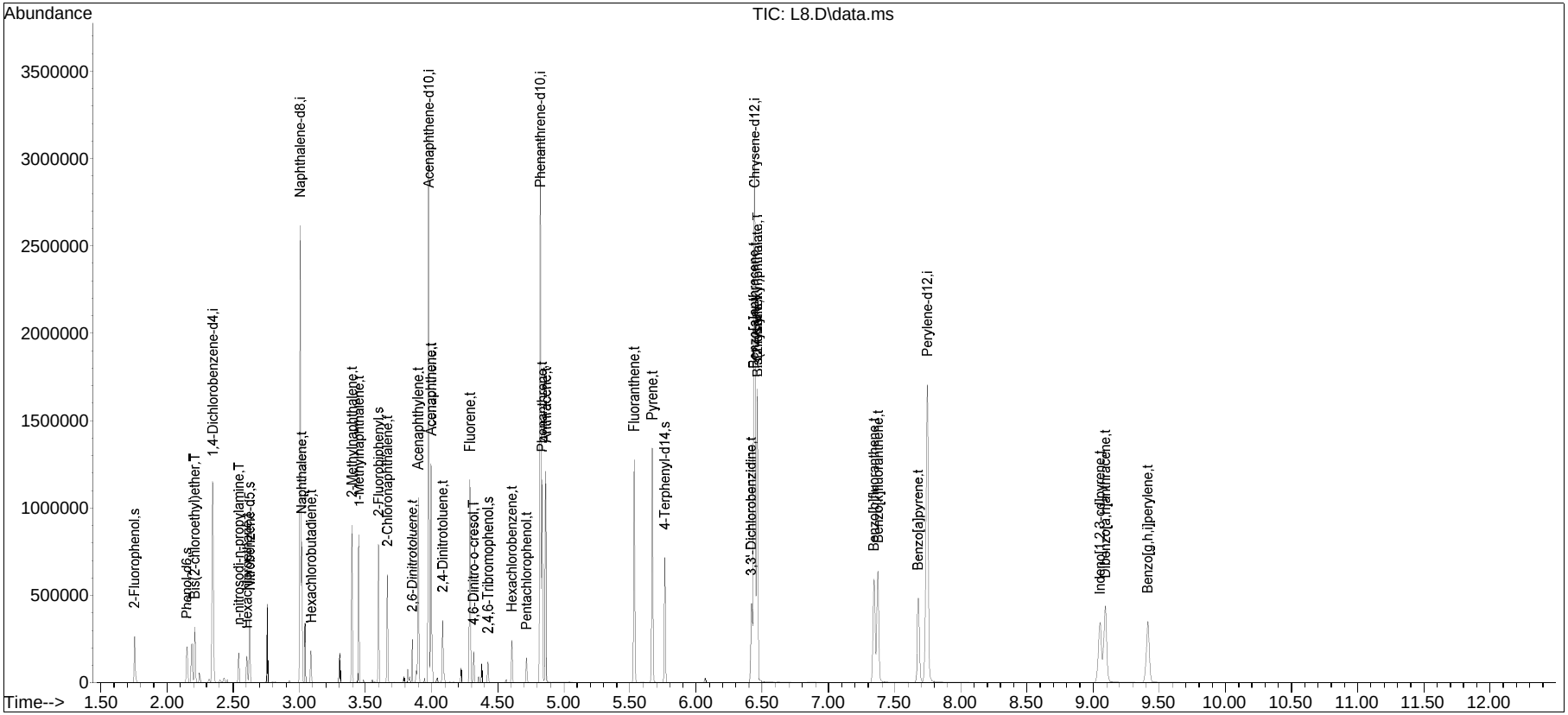
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L8.D
Acq On : 29 Dec 2024 02:10 pm
Operator : sv119:jjw
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 31 16:07:45 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:54 2024
Response via : Initial Calibration

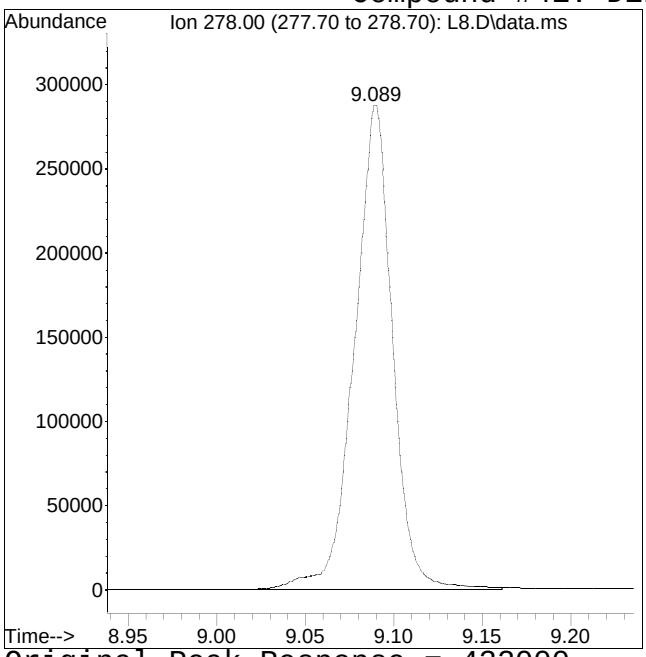
Sub List : Default - All compounds listedical\L8.D•



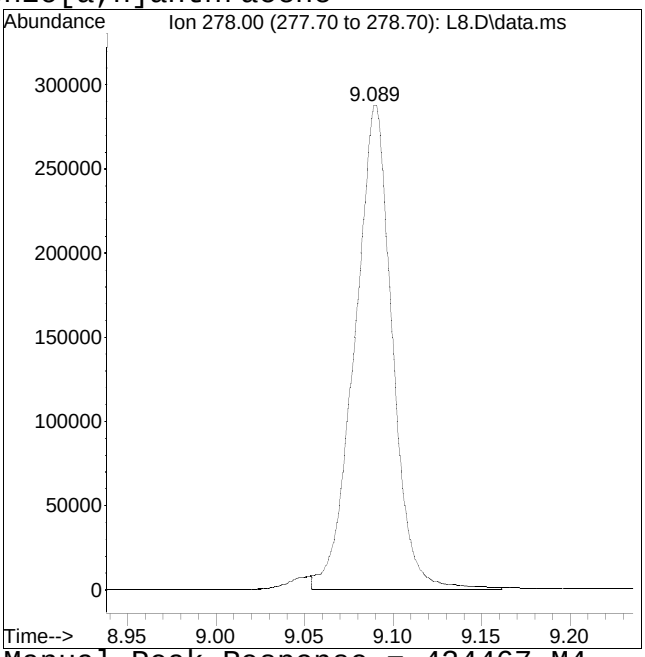
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L8.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:10 pm Instrument : SV119
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 432000



Manual Peak Response = 424467 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L7.D
Acq On : 29 Dec 2024 02:27 pm
Operator : sv119:jjw
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 31 16:07:40 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.347	152	277700	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 90.88%			
8) Naphthalene-d8	3.009	136	1031350	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 89.96%			
17) Acenaphthene-d10	3.981	164	642605	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 89.90%			
22) Phenanthrene-d10	4.823	188	1358701	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 89.33%			
31) Chrysene-d12	6.441	240	1404741	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 90.45%			
36) Perylene-d12	7.745	264	1401329	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 89.68%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.751	112	36580	491.624	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.58%			
3) Phenol-d6	2.149	99	45744	492.569	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.63%			
7) Nitrobenzene-d5	2.624	82	44951	499.146	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 49.91%			
13) 2-Fluorobiphenyl	3.600	172	122309	486.338	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 48.63%			
21) 2,4,6-Tribromophenol	4.427	330	14481	516.322	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.82%			
30) 4-Terphenyl-d14	5.760	244	169972	504.275	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 50.43%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.208	93	41071	479.147	ng/ml#	77
5) n-nitrosodi-n-propylamine	2.543	70	28682	499.280	ng/ml	100
6) Hexachloroethane	2.607	117	17362	482.356	ng/ml	94
9) Naphthalene	3.018	128	138206	480.477	ng/ml	99
10) Hexachlorobutadiene	3.089	225	24705	488.047	ng/ml	100
11) 2-Methylnaphthalene	3.397	142	98129	488.183	ng/ml	97
12) 1-Methylnaphthalene	3.453	142	91083	492.121	ng/ml	98
14) 2-Chloronaphthalene	3.666	162	102077	491.699	ng/ml	98
15) 2,6-Dinitrotoluene	3.856	165	25755	503.416	ng/ml#	90
16) Acenaphthylene	3.901	152	157411	489.617	ng/ml	100
18) Acenaphthene	3.999	153	105015	489.993	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L7.D
Acq On : 29 Dec 2024 02:27 pm
Operator : sv119:jjw
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 31 16:07:40 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.085	165	34686	508.771	ng/ml#	91
20) Fluorene	4.289	166	122836	498.860	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.315	198	18886	439.270	ng/ml	98
24) Hexachlorobenzene	4.608	284	38541	481.230	ng/ml	89
25) Pentachlorophenol	4.716	266	16039	405.437	ng/ml	100
26) Phenanthrene	4.836	178	194162	488.748	ng/ml	100
27) Anthracene	4.864	178	196722	493.904	ng/ml	99
28) Fluoranthene	5.530	202	243061	489.040	ng/ml	97
29) Pyrene	5.665	202	253172	493.498	ng/ml	100
32) Benzo[a]anthracene	6.433	228	255211	509.090	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.415	252	72048	424.135	ng/ml	99
34) Chrysene	6.458	228	241633	499.587	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.458	149	125474	500.071	ng/ml	100
37) Benzo[b]fluoranthene	7.339	252	237567	511.529	ng/ml	98
38) Benzo[k]fluoranthene	7.365	252	237883	519.410	ng/ml	98
39) Benzo[a]pyrene	7.671	252	204746	519.558	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.047	276	198795	521.068	ng/ml	93
41) Dibenzo[a,h]anthracene	9.084	278	193699M6	547.290	ng/ml	
42) Benzo[g,h,i]perylene	9.414	276	188750	519.803	ng/ml	93

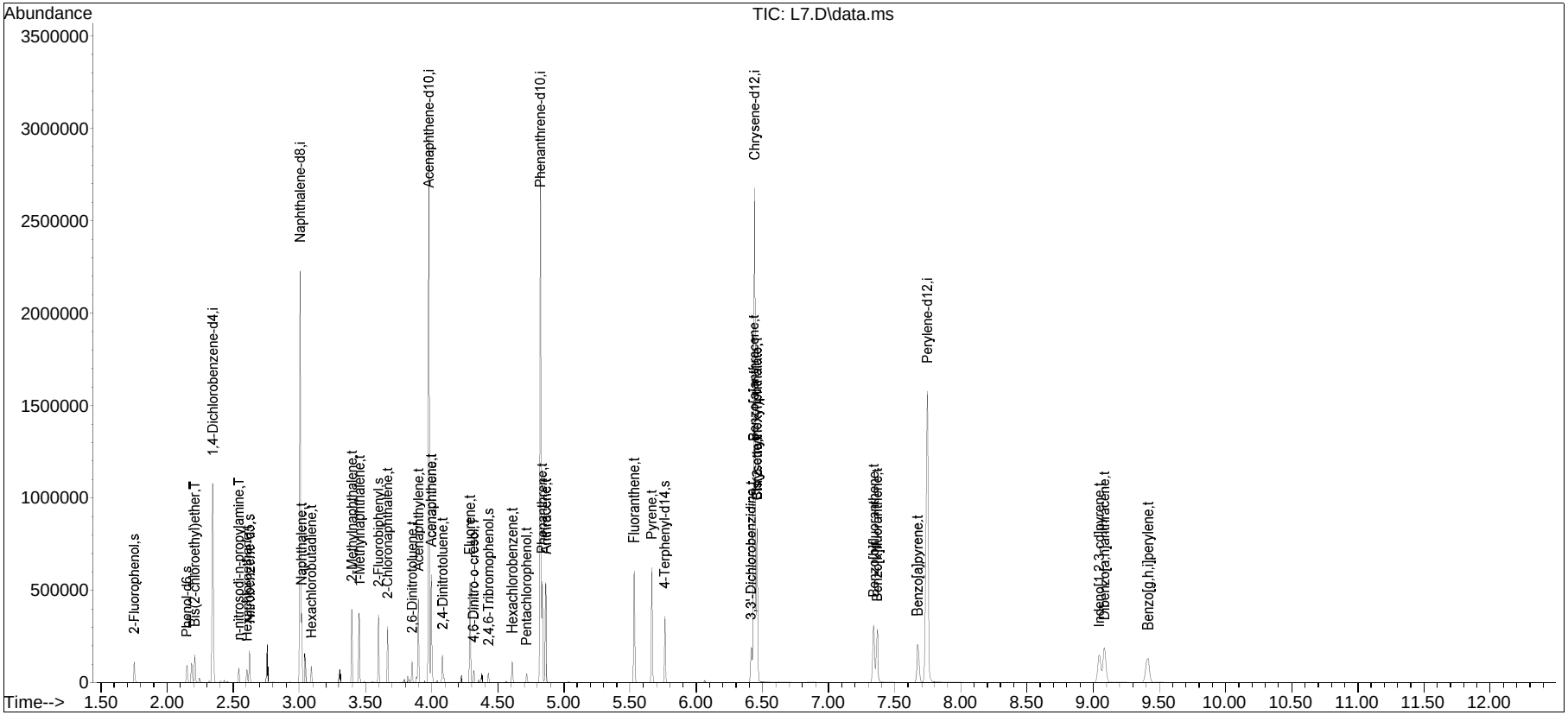
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L7.D
Acq On : 29 Dec 2024 02:27 pm
Operator : sv119:jjw
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 31 16:07:40 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:49 2024
Response via : Initial Calibration

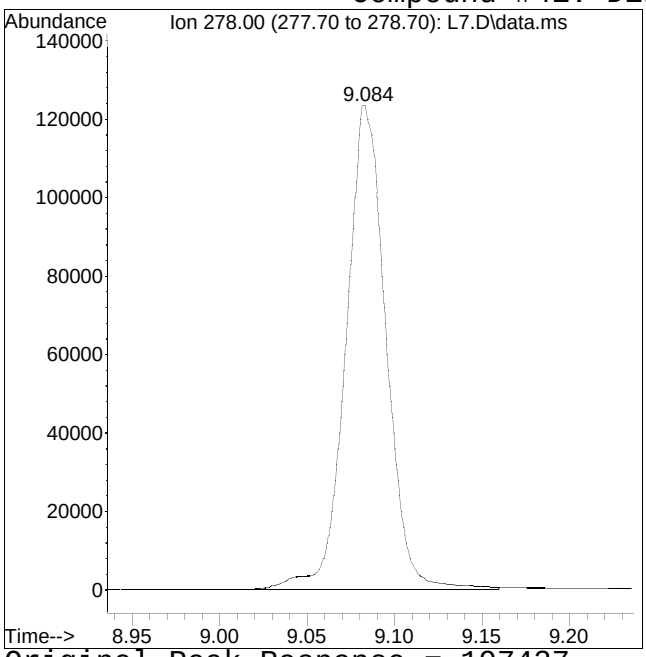
Sub List : Default - All compounds listedical\L8.D•



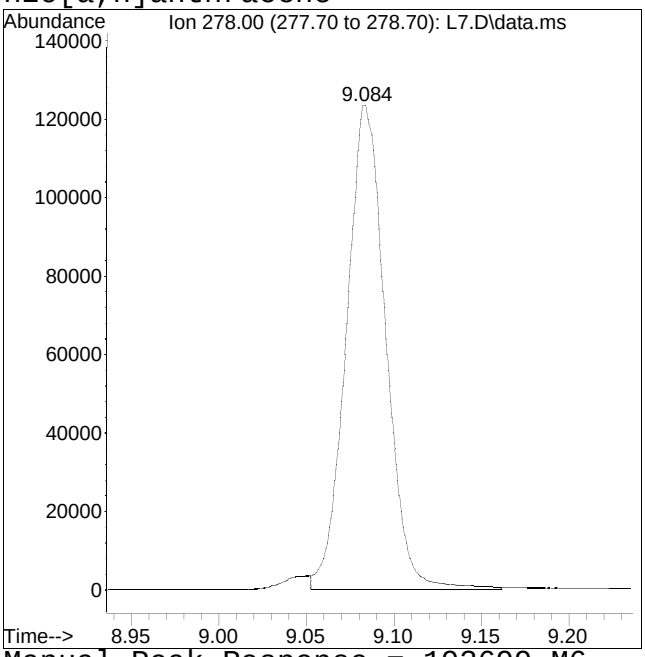
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L7.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:27 pm Instrument : SV119
Sample : IL7,32,, #10889 500 ng/ml Quant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 197427



Manual Peak Response = 193699 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L6.D
Acq On : 29 Dec 2024 02:44 pm
Operator : sv119:jjw
Sample : IL6,32,, #11222 100 ng/ml
Misc : WG2015284,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 31 16:07:35 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.349	152	348584	4000.000 ng/ml	0.00
Standard Area 1 = 305578			Recovery	= 114.07%	
8) Naphthalene-d8	3.010	136	1262202	4000.000 ng/ml	0.00
Standard Area 1 = 1146492			Recovery	= 110.09%	
17) Acenaphthene-d10	3.982	164	774717	4000.000 ng/ml	0.00
Standard Area 1 = 714823			Recovery	= 108.38%	
22) Phenanthrene-d10	4.824	188	1624304	4000.000 ng/ml	0.00
Standard Area 1 = 1521053			Recovery	= 106.79%	
31) Chrysene-d12	6.442	240	1715880	4000.000 ng/ml	0.00
Standard Area 1 = 1553026			Recovery	= 110.49%	
36) Perylene-d12	7.746	264	1679771	4000.000 ng/ml	0.00
Standard Area 1 = 1562574			Recovery	= 107.50%	
System Monitoring Compounds					
2) 2-Fluorophenol	1.761	112	8463	90.611 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 4.53%#	
3) Phenol-d6	2.153	99	10183	87.353 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 4.37%#	
7) Nitrobenzene-d5	2.627	82	10026	88.692 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 8.87%#	
13) 2-Fluorobiphenyl	3.601	172	27683	89.944 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 8.99%#	
21) 2,4,6-Tribromophenol	4.426	330	2917	86.270 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 4.31%#	
30) 4-Terphenyl-d14	5.760	244	38387	95.264 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 9.53%#	
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	9437	87.707 ng/ml#	77
5) n-nitrosodi-n-propylamine	2.546	70	6307	87.463 ng/ml	98
6) Hexachloroethane	2.608	117	3992	88.354 ng/ml	94
9) Naphthalene	3.021	128	31246	88.760 ng/ml	100
10) Hexachlorobutadiene	3.090	225	5602	90.427 ng/ml	99
11) 2-Methylnaphthalene	3.397	142	22197	90.231 ng/ml	98
12) 1-Methylnaphthalene	3.452	142	20577	90.843 ng/ml	98
14) 2-Chloronaphthalene	3.668	162	23306	91.731 ng/ml	98
15) 2,6-Dinitrotoluene	3.857	165	5395	86.166 ng/ml#	88
16) Acenaphthylene	3.900	152	35549	90.350 ng/ml	100
18) Acenaphthene	3.998	153	23490	90.912 ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L6.D
Acq On : 29 Dec 2024 02:44 pm
Operator : sv119:jjw
Sample : IL6,32,, #11222 100 ng/ml
Misc : WG2015284,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 31 16:07:35 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	6802	82.757	ng/ml#	87
20) Fluorene	4.290	166	27026	91.041	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.314	198	3224	86.212	ng/ml	100
24) Hexachlorobenzene	4.609	284	8612	89.948	ng/ml	89
25) Pentachlorophenol	4.718	266	4120	82.571	ng/ml	100
26) Phenanthrene	4.836	178	43401M6	91.386	ng/ml	
27) Anthracene	4.866	178	43275	90.883	ng/ml	99
28) Fluoranthene	5.529	202	53550	90.125	ng/ml	97
29) Pyrene	5.666	202	55647	90.734	ng/ml	99
32) Benzo[a]anthracene	6.434	228	58816	89.720	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.413	252	13432	87.639	ng/ml	99
34) Chrysene	6.457	228	53579	90.690	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.456	149	23895	77.964	ng/ml	98
37) Benzo[b]fluoranthene	7.339	252	49075	88.152	ng/ml	100
38) Benzo[k]fluoranthene	7.363	252	50767	92.474	ng/ml	96
39) Benzo[a]pyrene	7.672	252	41958	88.823	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.043	276	40027	87.525	ng/ml	93
41) Dibenzo[a,h]anthracene	9.081	278	39005M6	91.939	ng/ml	
42) Benzo[g,h,i]perylene	9.404	276	39026	89.659	ng/ml	93

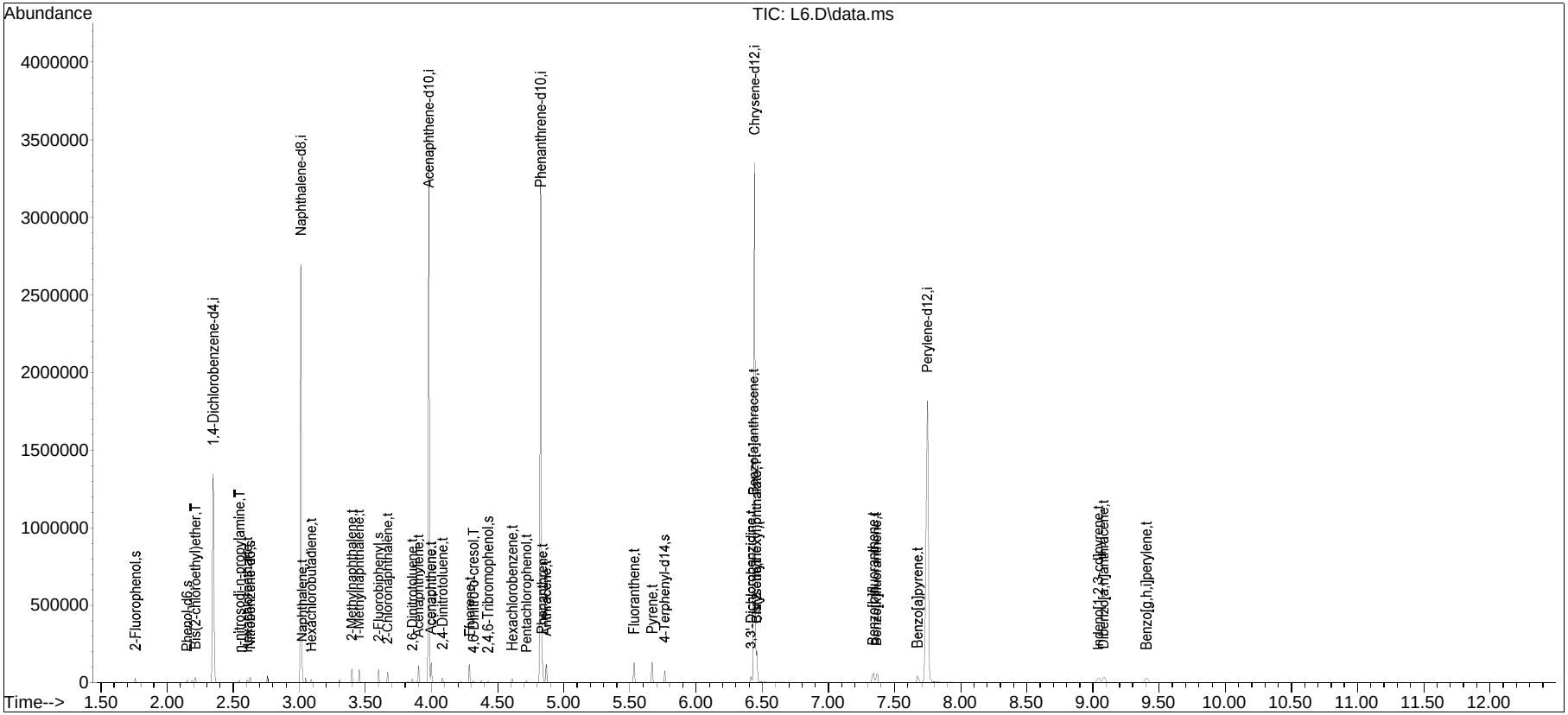
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L6.D
Acq On : 29 Dec 2024 02:44 pm
Operator : sv119:jjw
Sample : IL6,32,, #11222 100 ng/ml
Misc : WG2015284,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 31 16:07:35 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:44 2024
Response via : Initial Calibration

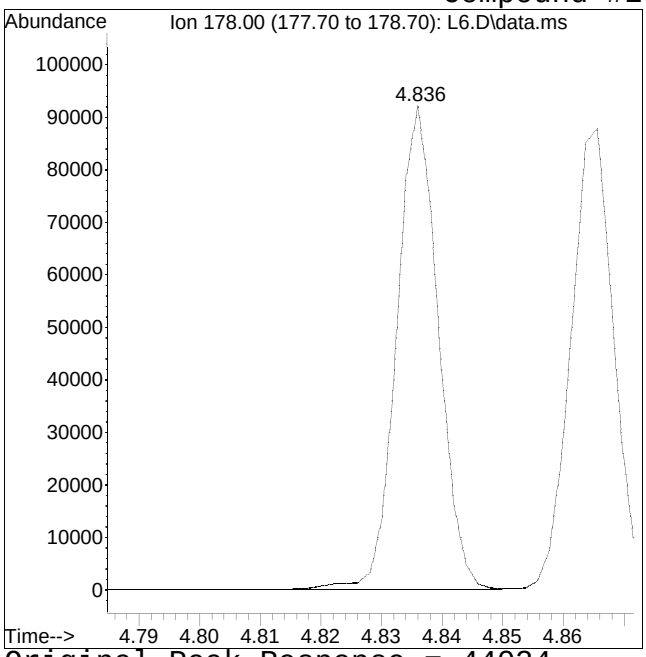
Sub List : Default - All compounds listedical\L8.D•



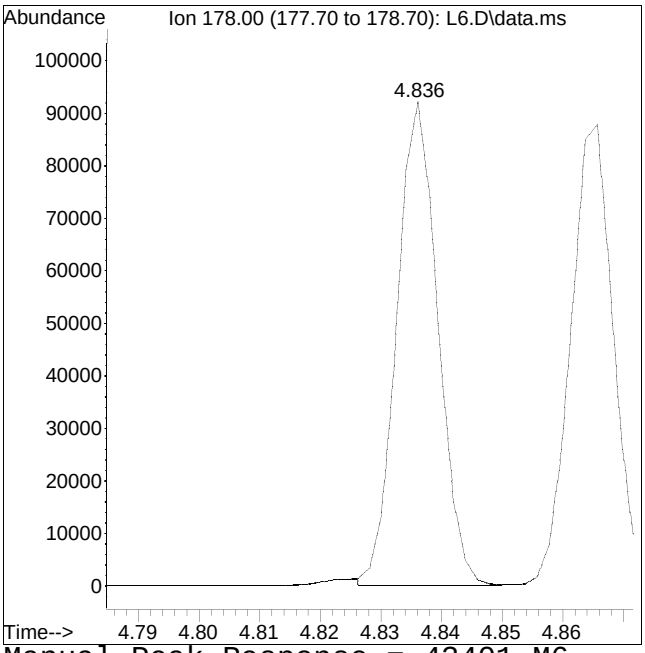
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L6.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:44 pm Instrument : SV119
Sample : IL6,32,, #11222 100 ng/ml Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 44024



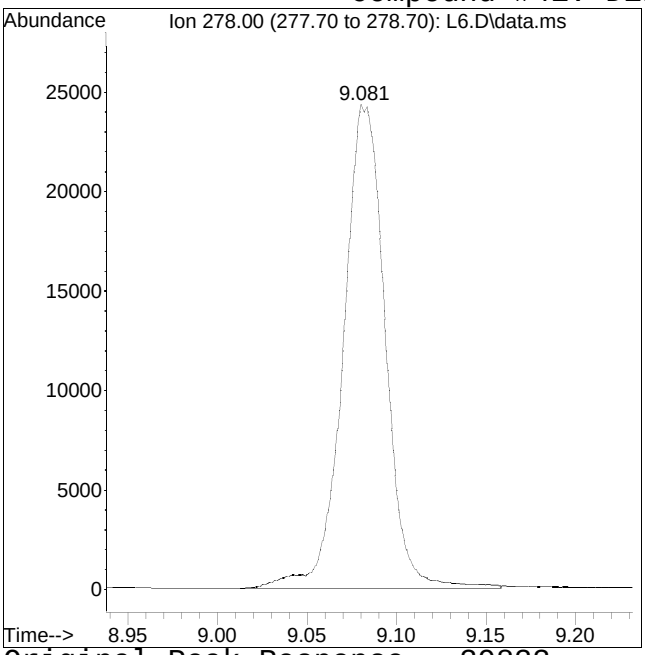
Manual Peak Response = 43401 M6

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

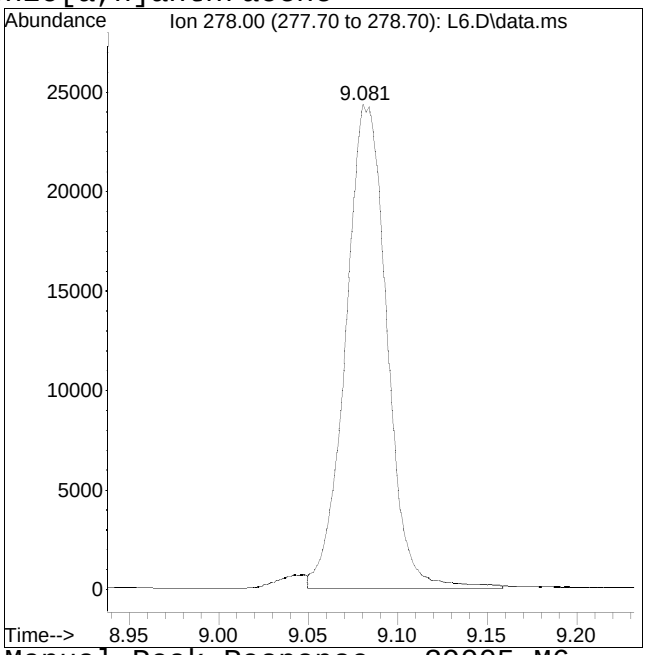
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L6.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:44 pm Instrument : SV119
Sample : IL6,32,, #11222 100 ng/ml Quant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 39833



Manual Peak Response = 39005 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L5.D
Acq On : 29 Dec 2024 03:01 pm
Operator : sv119:jjw
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG2015284,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 31 16:07:30 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.349	152	371978	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 121.73%			
8) Naphthalene-d8	3.010	136	1361124	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 118.72%			
17) Acenaphthene-d10	3.982	164	850825	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 119.03%			
22) Phenanthrene-d10	4.824	188	1815883	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 119.38%			
31) Chrysene-d12	6.439	240	1971843	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 126.97%			
36) Perylene-d12	7.743	264	1883991	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 120.57%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.762	112	3960	39.732	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.99%#			
3) Phenol-d6	2.153	99	4868	39.133	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.96%#			
7) Nitrobenzene-d5	2.627	82	4930	40.869	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.09%#			
13) 2-Fluorobiphenyl	3.601	172	13741	41.401	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.14%#			
21) 2,4,6-Tribromophenol	4.426	330	1339	36.058	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.80%#			
30) 4-Terphenyl-d14	5.760	244	19393	43.050	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.30%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	5775	50.297	ng/ml	99
5) n-nitrosodi-n-propylamine	2.546	70	3022	39.272	ng/ml	100
6) Hexachloroethane	2.608	117	1928	39.988	ng/ml	93
9) Naphthalene	3.021	128	15283	40.259	ng/ml	100
10) Hexachlorobutadiene	3.090	225	2730	40.865	ng/ml	99
11) 2-Methylnaphthalene	3.398	142	10887	41.039	ng/ml	98
12) 1-Methylnaphthalene	3.452	142	10053	41.157	ng/ml	98
14) 2-Chloronaphthalene	3.668	162	11392	41.580	ng/ml	98
15) 2,6-Dinitrotoluene	3.857	165	2603	38.552	ng/ml#	87
16) Acenaphthylene	3.900	152	17461	41.153	ng/ml	100
18) Acenaphthene	4.000	153	11585	40.826	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L5.D
Acq On : 29 Dec 2024 03:01 pm
Operator : sv119:jjw
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG2015284,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 31 16:07:30 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	3137	34.753	ng/ml#	84
20) Fluorene	4.290	166	13325	40.872	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.316	198	1502	51.908	ng/ml	97
24) Hexachlorobenzene	4.609	284	4349	40.631	ng/ml	89
25) Pentachlorophenol	4.718	266	2504	41.336	ng/ml	99
26) Phenanthrene	4.836	178	21799M6	41.058	ng/ml	
27) Anthracene	4.866	178	21558	40.498	ng/ml	99
28) Fluoranthene	5.529	202	27023	40.682	ng/ml	97
29) Pyrene	5.664	202	28030	40.882	ng/ml	99
32) Benzo[a]anthracene	6.430	228	33056	39.893	ng/ml	97
33) 3,3'-Dichlorobenzidine	6.411	252	6647	53.130	ng/ml	99
34) Chrysene	6.455	228	26991	39.756	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.455	149	12116	34.400	ng/ml	98
37) Benzo[b]fluoranthene	7.334	252	24381	39.048	ng/ml	98
38) Benzo[k]fluoranthene	7.360	252	24703	40.120	ng/ml	98
39) Benzo[a]pyrene	7.669	252	20397	38.499	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.037	276	19225	37.481	ng/ml	94
41) Dibenzo[a,h]anthracene	9.077	278	18024	37.879	ng/ml	92
42) Benzo[g,h,i]perylene	9.404	276	18496	37.887	ng/ml	93

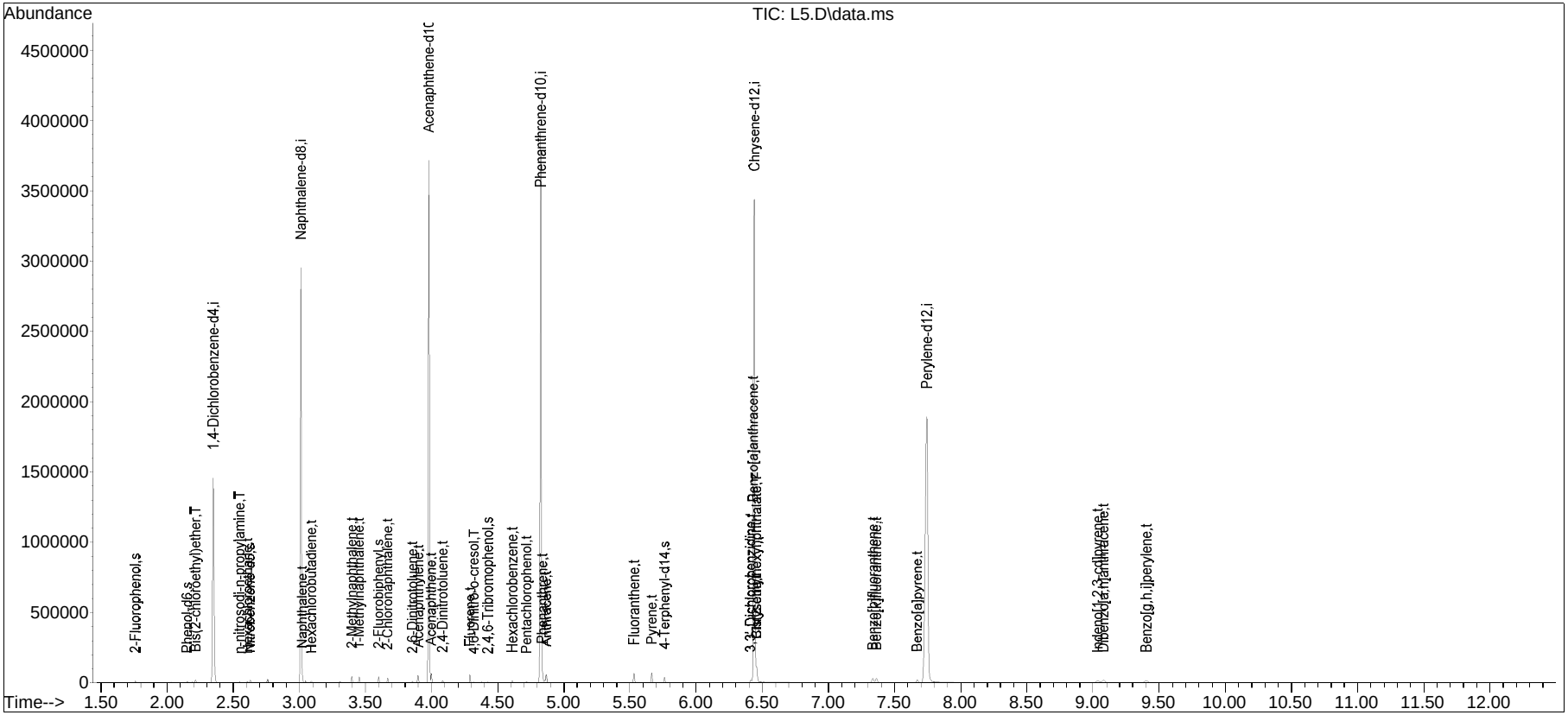
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L5.D
Acq On : 29 Dec 2024 03:01 pm
Operator : sv119:jjw
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG2015284,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 31 16:07:30 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:39 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

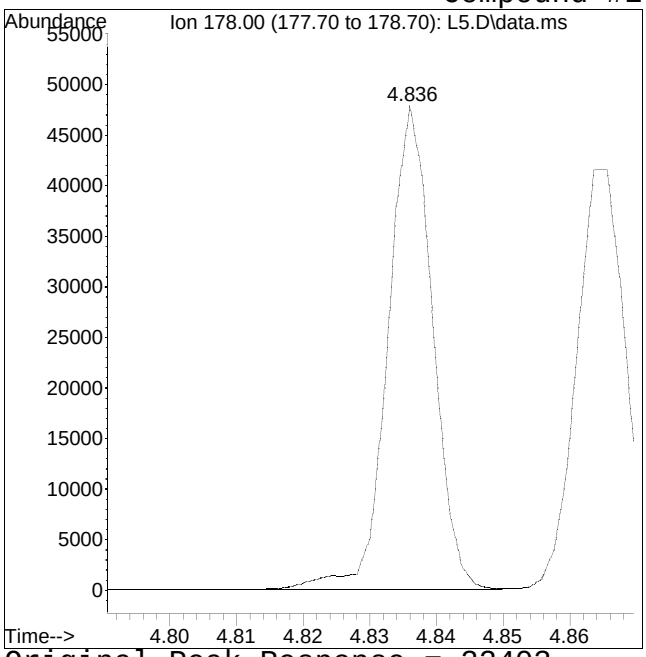


Manual Integration Report

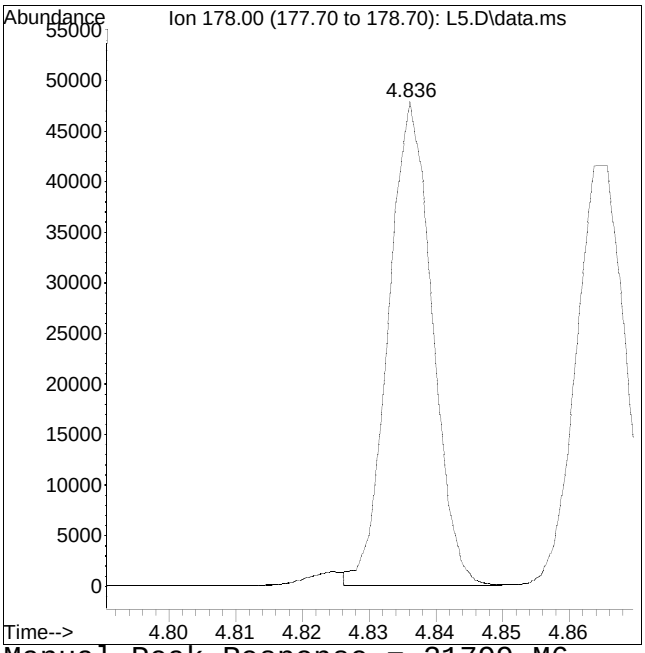
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L5.D
Date Inj'd : 12/29/2024 3:01 pm
Sample : IL5,32,, #10891 40 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 22403



Manual Peak Response = 21799 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L4.D
Acq On : 29 Dec 2024 03:18 pm
Operator : sv119:jjw
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG2015284,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 16:07:24 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.347	152	370999	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 121.41%			
8) Naphthalene-d8	3.011	136	1351451	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 117.88%			
17) Acenaphthene-d10	3.983	164	838484	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 117.30%			
22) Phenanthrene-d10	4.825	188	1741192	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 114.47%			
31) Chrysene-d12	6.437	240	1850107	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 119.13%			
36) Perylene-d12	7.743	264	1793742	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 114.79%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.761	112	974	9.798	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
3) Phenol-d6	2.152	99	1209	9.745	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
7) Nitrobenzene-d5	2.628	82	1197	9.949	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.99%#			
13) 2-Fluorobiphenyl	3.602	172	3346	10.153	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.02%#			
21) 2,4,6-Tribromophenol	4.425	330	305	8.334	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.42%#			
30) 4-Terphenyl-d14	5.759	244	4386	10.154	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.02%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.213	93	1174	10.252	ng/ml#	79
5) n-nitrosodi-n-propylamine	2.547	70	773	10.072	ng/ml	99
6) Hexachloroethane	2.608	117	484	10.065	ng/ml	92
9) Naphthalene	3.020	128	3813	10.116	ng/ml	99
10) Hexachlorobutadiene	3.091	225	683	10.297	ng/ml	99
11) 2-Methylnaphthalene	3.398	142	2645	10.042	ng/ml	98
12) 1-Methylnaphthalene	3.453	142	2455	10.123	ng/ml	97
14) 2-Chloronaphthalene	3.669	162	2786	10.241	ng/ml	97
15) 2,6-Dinitrotoluene	3.856	165	657	9.800	ng/ml	91
16) Acenaphthylene	3.901	152	4223	10.024	ng/ml	99
18) Acenaphthene	3.999	153	2795	9.995	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L4.D
Acq On : 29 Dec 2024 03:18 pm
Operator : sv119:jjw
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG2015284,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 16:07:24 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.085	165	725	8.150	ng/ml#	85
20) Fluorene	4.291	166	3148	9.798	ng/ml	95
23) 4,6-Dinitro-o-cresol	4.317	198	263	31.874	ng/ml	99
24) Hexachlorobenzene	4.608	284	1045	10.182	ng/ml	90
25) Pentachlorophenol	4.718	266	1018	12.918	ng/ml	95
26) Phenanthrene	4.837	178	5063	9.945	ng/ml	98
27) Anthracene	4.864	178	5037	9.868	ng/ml	99
28) Fluoranthene	5.528	202	6189	9.717	ng/ml	98
29) Pyrene	5.663	202	6449	9.809	ng/ml	99
32) Benzo[a]anthracene	6.432	228	11427	9.770	ng/ml#	89
33) 3,3'-Dichlorobenzidine	6.410	252	1506	33.333	ng/ml	99
34) Chrysene	6.453	228	6339	9.951	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.454	149	2705	8.185	ng/ml	100
37) Benzo[b]fluoranthene	7.331	252	5732	9.642	ng/ml	98
38) Benzo[k]fluoranthene	7.360	252	5454	9.303	ng/ml	98
39) Benzo[a]pyrene	7.669	252	4705	9.327	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.035	276	4520	9.256	ng/ml	95
41) Dibenzo[a,h]anthracene	9.078	278	4132	9.121	ng/ml	93
42) Benzo[g,h,i]perylene	9.402	276	4376	9.415	ng/ml	93

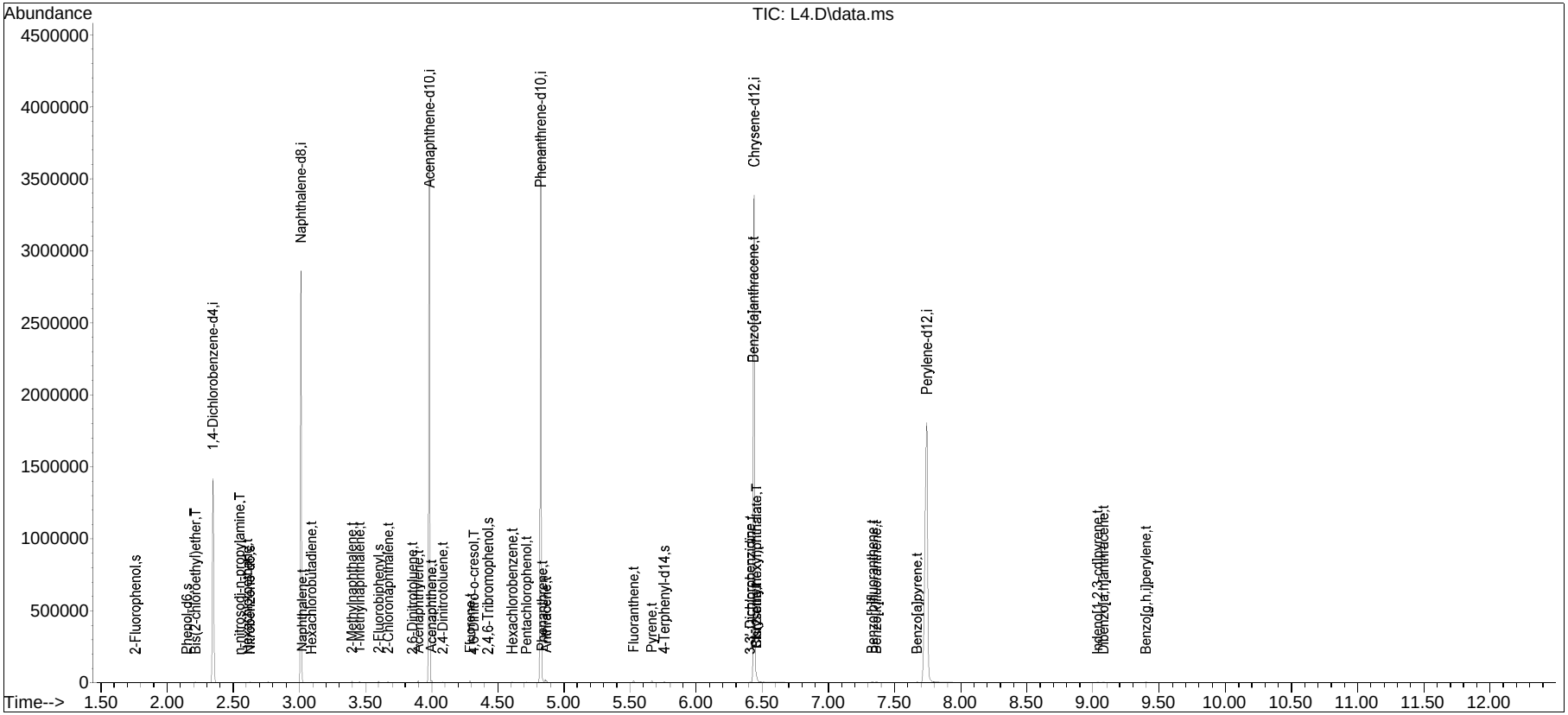
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L4.D
Acq On : 29 Dec 2024 03:18 pm
Operator : sv119:jjw
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG2015284,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 16:07:24 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:34 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\241229RVTQ	Method	: SIM-RVT_241229_sv119.M
Data File	: L4.D	Operator	: sv119:jjw
Date Inj'd	: 12/29/2024 3:18 pm	Instrument	: SV119
Sample	: IL4,32,, #10892 10 ng/ml	Quant Date	: 12/31/2024 4:08 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L3.D
Acq On : 29 Dec 2024 03:35 pm
Operator : sv119:jjw
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG2015284,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 16:10:32 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.349	152	381992	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 125.01%			
8) Naphthalene-d8	3.010	136	1374019	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 119.85%			
17) Acenaphthene-d10	3.982	164	845214	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 118.24%			
22) Phenanthrene-d10	4.824	188	1771374	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 116.46%			
31) Chrysene-d12	6.438	240	1918872	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 123.56%			
36) Perylene-d12	7.741	264	1850785	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 118.44%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.762	112	501	4.895	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
3) Phenol-d6	2.153	99	617	4.830	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.629	82	636	5.134	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.51%#			
13) 2-Fluorobiphenyl	3.601	172	1692	5.050	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.51%#			
21) 2,4,6-Tribromophenol	4.426	330	165	4.473	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.22%#			
30) 4-Terphenyl-d14	5.758	244	2294	5.220	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.52%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	624	5.292	ng/ml	85
5) n-nitrosodi-n-propylamine	2.548	70	386	4.885	ng/ml	100
6) Hexachloroethane	2.610	117	245	4.948	ng/ml	92
9) Naphthalene	3.021	128	1938	5.057	ng/ml	97
10) Hexachlorobutadiene	3.090	225	353	5.234	ng/ml	98
11) 2-Methylnaphthalene	3.398	142	1337	4.993	ng/ml	96
12) 1-Methylnaphthalene	3.454	142	1237	5.017	ng/ml	97
14) 2-Chloronaphthalene	3.668	162	1396	5.047	ng/ml	97
15) 2,6-Dinitrotoluene	3.857	165	353	5.179	ng/ml	95
16) Acenaphthylene	3.900	152	2146	5.010	ng/ml	99
18) Acenaphthene	4.000	153	1432	5.080	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L3.D
Acq On : 29 Dec 2024 03:35 pm
Operator : sv119:jjw
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG2015284,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 16:10:32 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	370	4.126	ng/ml#	86
20) Fluorene	4.290	166	1579	4.875	ng/ml	93
23) 4,6-Dinitro-o-cresol	4.319	198	103M7	29.122	ng/ml	
24) Hexachlorobenzene	4.607	284	528	5.057	ng/ml	92
25) Pentachlorophenol	4.718	266	755	7.237	ng/ml	98
26) Phenanthrene	4.836	178	2595M7	5.010	ng/ml	
27) Anthracene	4.864	178	2580	4.968	ng/ml	99
28) Fluoranthene	5.527	202	3205	4.946	ng/ml	96
29) Pyrene	5.664	202	3335	4.986	ng/ml	100
32) Benzo[a]anthracene	6.436	228	8508	4.812	ng/ml#	84
33) 3,3'-Dichlorobenzidine	6.410	252	822	30.347	ng/ml	98
34) Chrysene	6.454	228	3307	5.005	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.454	149	1563	4.560	ng/ml	96
37) Benzo[b]fluoranthene	7.332	252	3017	4.919	ng/ml	97
38) Benzo[k]fluoranthene	7.358	252	2800	4.629	ng/ml	98
39) Benzo[a]pyrene	7.667	252	2428	4.665	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	9.037	276	2345	4.654	ng/ml	93
41) Dibenzo[a,h]anthracene	9.075	278	2106	4.505	ng/ml#	91
42) Benzo[g,h,i]perylene	9.400	276	2235	4.660	ng/ml	94

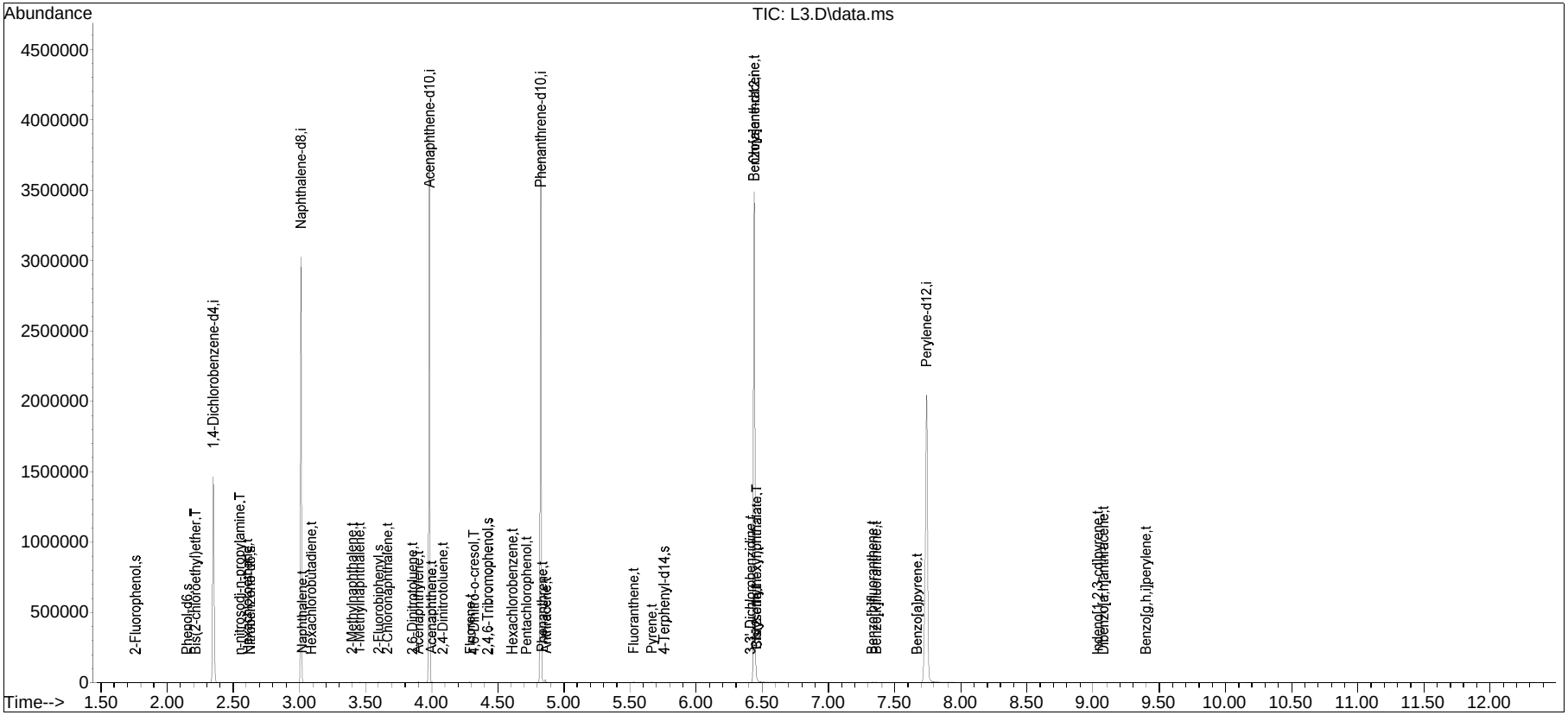
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L3.D
Acq On : 29 Dec 2024 03:35 pm
Operator : sv119:jjw
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG2015284,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 16:10:32 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:29 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

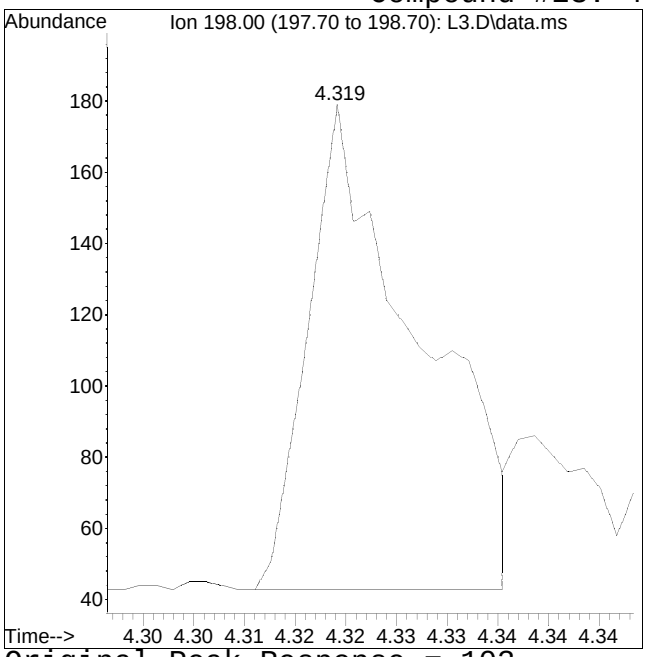


Manual Integration Report

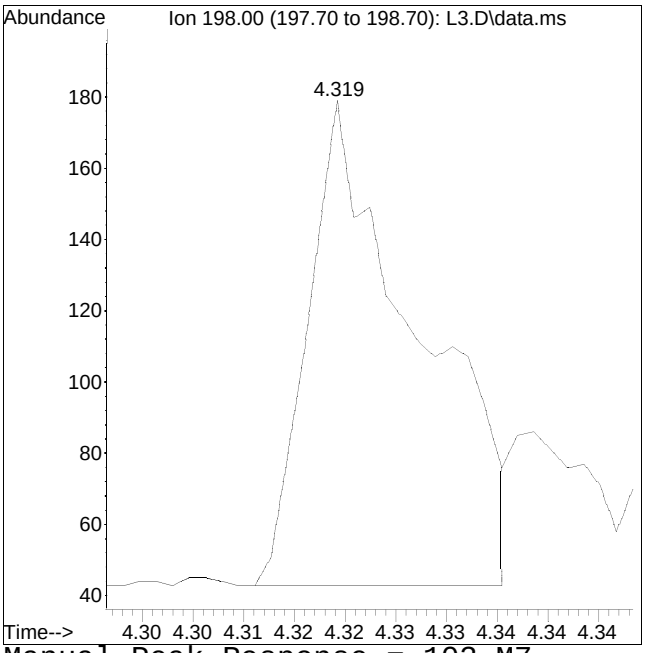
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L3.D
Date Inj'd : 12/29/2024 3:35 pm
Sample : IL3,32,, #10893 5 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 103



Manual Peak Response = 103 M7

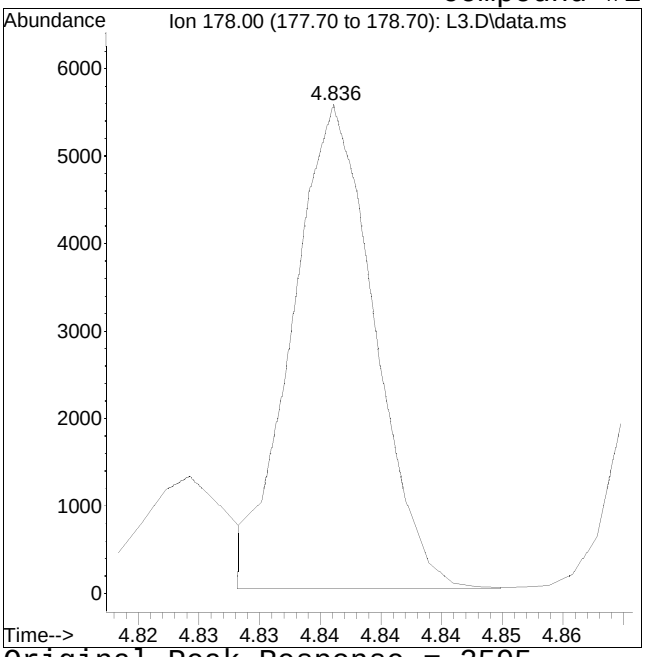
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

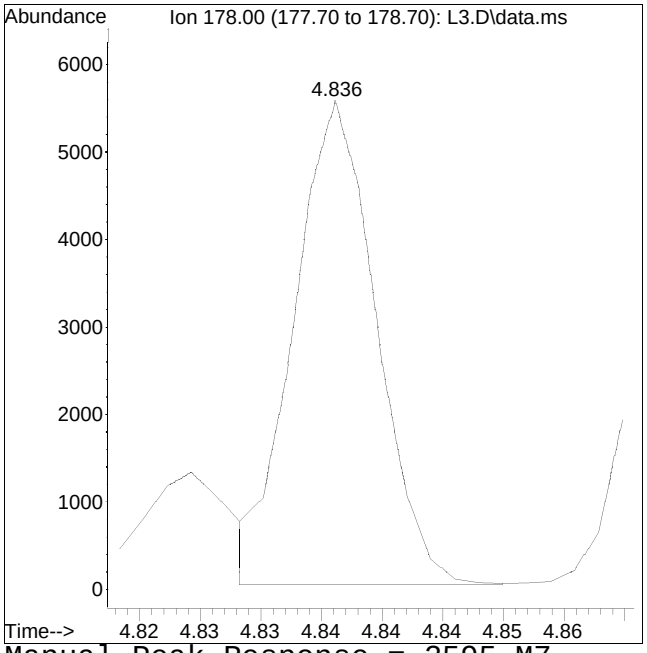
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L3.D
Date Inj'd : 12/29/2024 3:35 pm
Sample : IL3,32,, #10893 5 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 2595



Manual Peak Response = 2595 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L2.D
Acq On : 29 Dec 2024 03:52 pm
Operator : sv119:jjw
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG2015284,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 16:10:02 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.348	152	375319	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 122.82%			
8) Naphthalene-d8	3.010	136	1365787	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 119.13%			
17) Acenaphthene-d10	3.982	164	847104	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 118.51%			
22) Phenanthrene-d10	4.824	188	1774123	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 116.64%			
31) Chrysene-d12	6.435	240	1906045	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 122.73%			
36) Perylene-d12	7.741	264	1822819	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 116.65%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.761	112	224	2.227	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
3) Phenol-d6	2.153	99	281	2.239	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
7) Nitrobenzene-d5	2.629	82	259	2.128	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
13) 2-Fluorobiphenyl	3.603	172	789	2.369	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.24%#			
21) 2,4,6-Tribromophenol	4.428	330	84	2.272	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
30) 4-Terphenyl-d14	5.758	244	1081	2.456	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.25%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.214	93	2762	23.841	ng/ml#	25
5) n-nitrosodi-n-propylamine	2.548	70	157M7	2.022	ng/ml	
6) Hexachloroethane	2.610	117	123	2.528	ng/ml	94
9) Naphthalene	3.021	128	960M6	2.520	ng/ml	
10) Hexachlorobutadiene	3.092	225	157	2.342	ng/ml	94
11) 2-Methylnaphthalene	3.398	142	624	2.344	ng/ml	96
12) 1-Methylnaphthalene	3.454	142	566	2.309	ng/ml	97
14) 2-Chloronaphthalene	3.669	162	643	2.339	ng/ml	95
15) 2,6-Dinitrotoluene	3.857	165	186	2.745	ng/ml	95
16) Acenaphthylene	3.902	152	1005	2.361	ng/ml	97
18) Acenaphthene	4.000	153	648	2.294	ng/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L2.D
Acq On : 29 Dec 2024 03:52 pm
Operator : sv119:jjw
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG2015284,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 16:10:02 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.086	165	189	2.103	ng/ml#	91
20) Fluorene	4.290	166	745	2.295	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.321	198	52M7	28.267	ng/ml	
24) Hexachlorobenzene	4.609	284	256	2.448	ng/ml	90
25) Pentachlorophenol	4.720	266	642	4.929	ng/ml	100
26) Phenanthrene	4.836	178	1221M7	2.354	ng/ml	
27) Anthracene	4.866	178	1209	2.325	ng/ml	98
28) Fluoranthene	5.529	202	1514	2.333	ng/ml	99
29) Pyrene	5.664	202	1542	2.302	ng/ml	98
32) Benzo[a]anthracene	6.435	228	6756	2.282	ng/ml#	80
33) 3,3'-Dichlorobenzidine	6.410	252	432M7	28.785	ng/ml	
34) Chrysene	6.451	228	1516	2.310	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.455	149	972	2.855	ng/ml	98
37) Benzo[b]fluoranthene	7.327	252	1361	2.253	ng/ml	100
38) Benzo[k]fluoranthene	7.360	252	1313	2.204	ng/ml	96
39) Benzo[a]pyrene	7.667	252	1113	2.171	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	9.034	276	1066	2.148	ng/ml	93
41) Dibenzo[a,h]anthracene	9.079	278	936	2.033	ng/ml	96
42) Benzo[g,h,i]perylene	9.402	276	1010	2.138	ng/ml	96

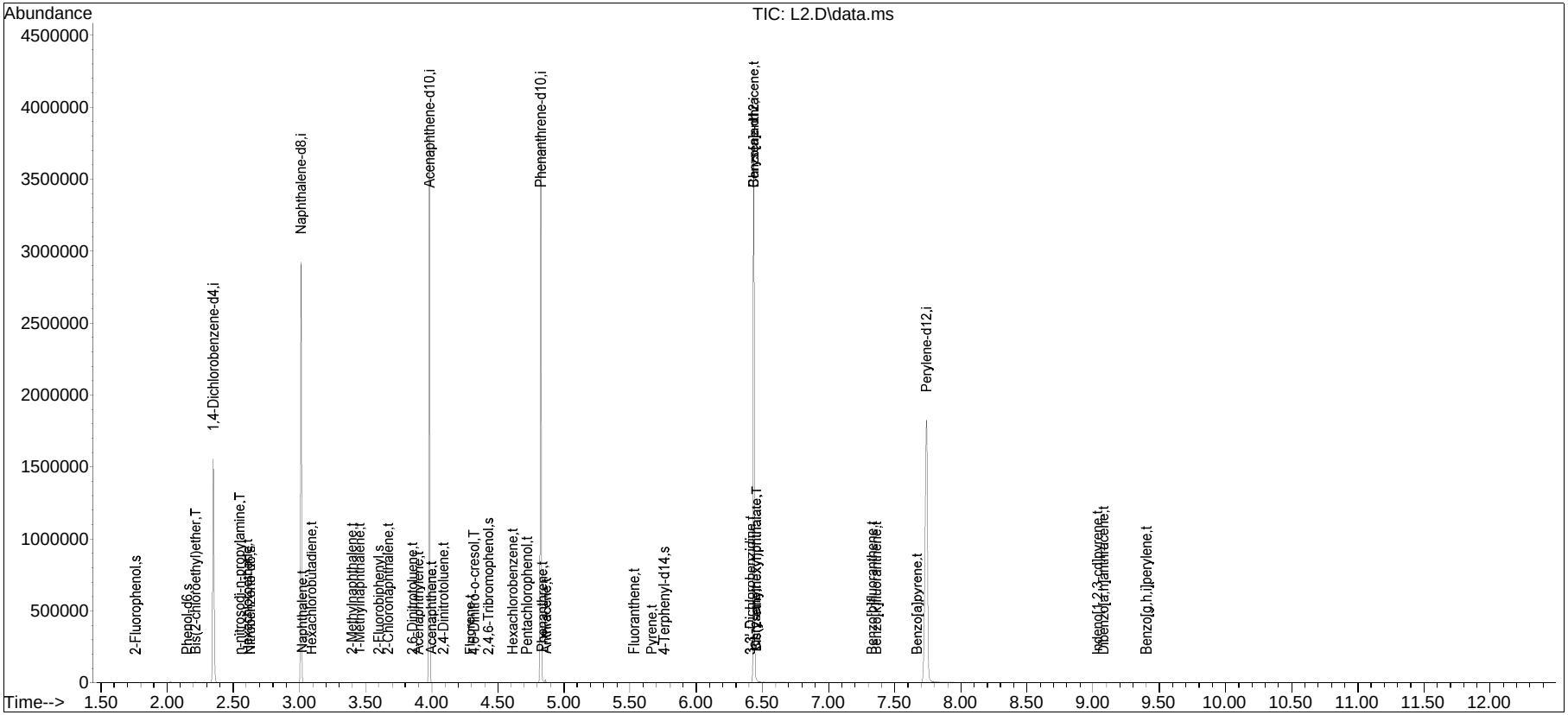
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L2.D
Acq On : 29 Dec 2024 03:52 pm
Operator : sv119:jjw
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG2015284,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 16:10:02 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:24 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

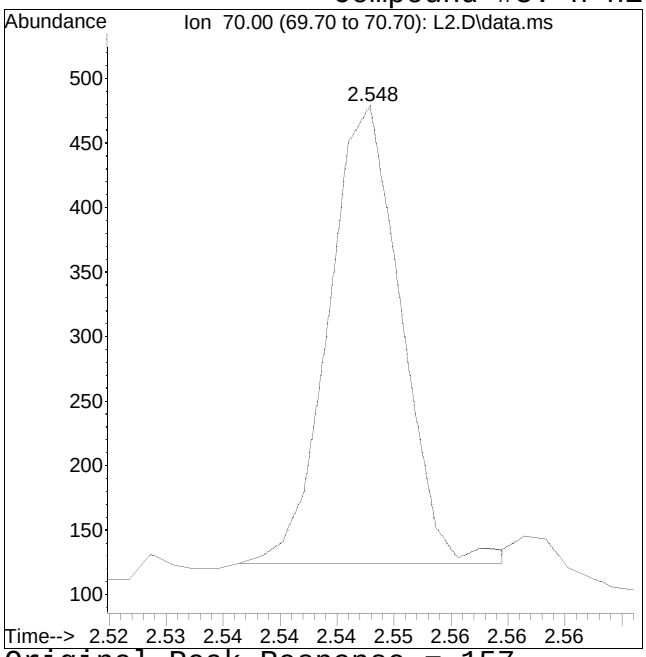


Manual Integration Report

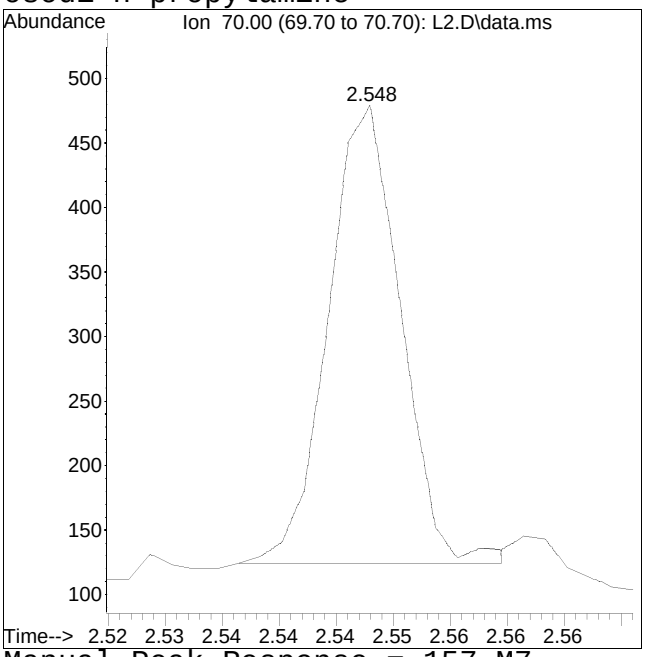
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 157



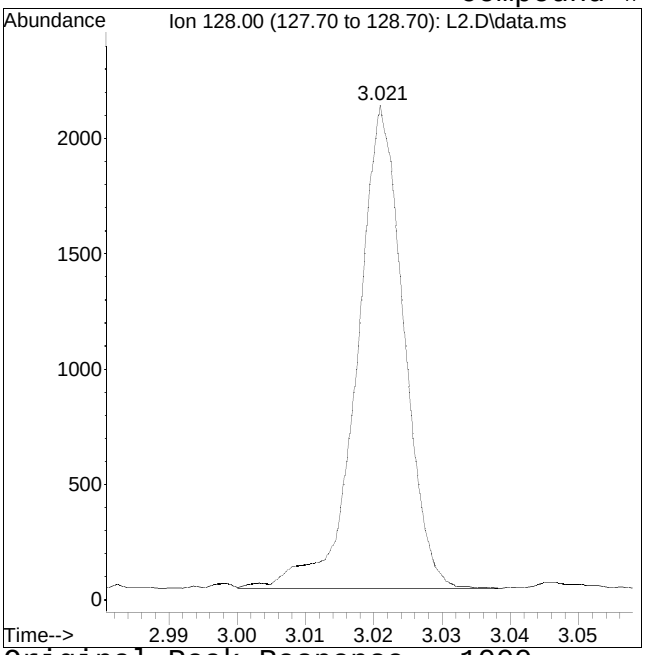
Manual Peak Response = 157 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

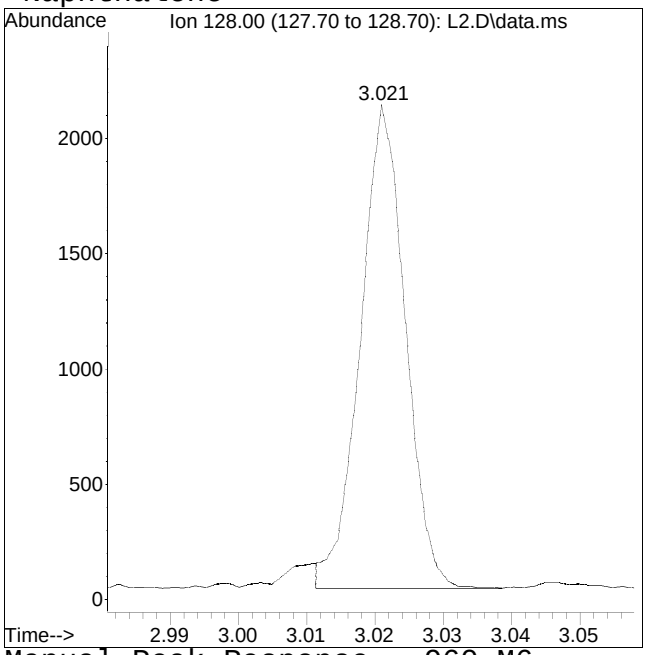
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml
Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #9: Naphthalene



Original Peak Response = 1000



Manual Peak Response = 960 M6

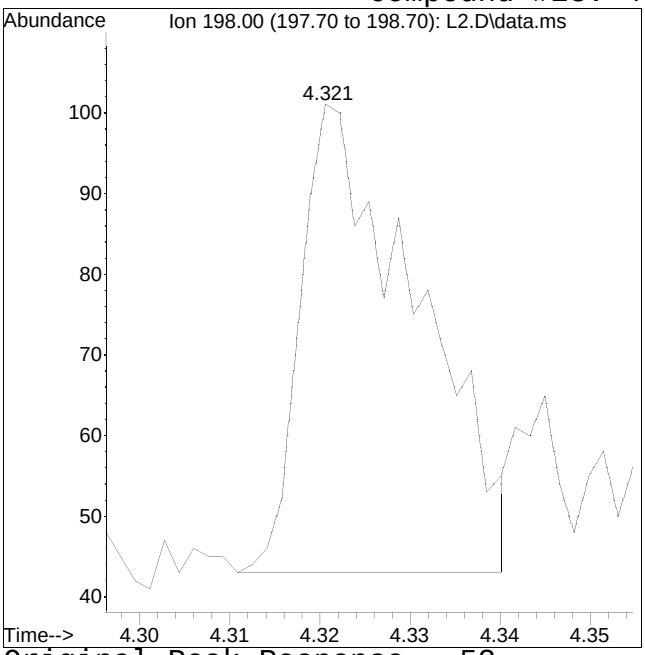
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

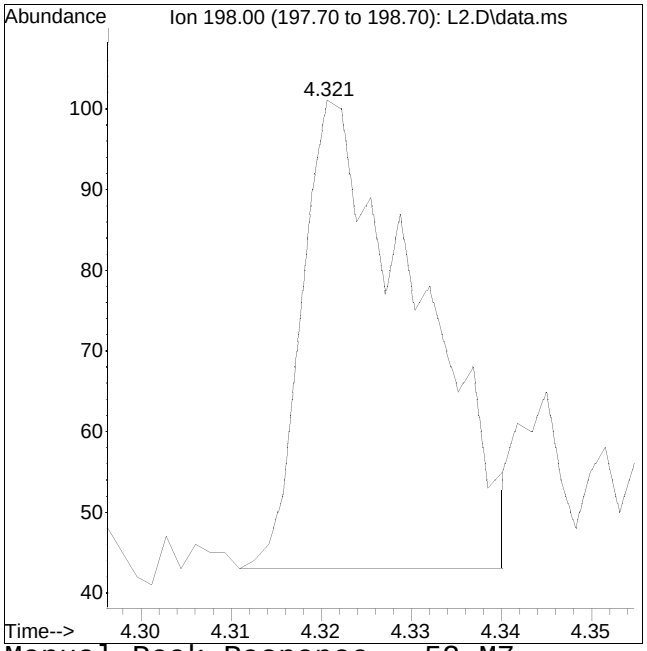
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 52



Manual Peak Response = 52 M7

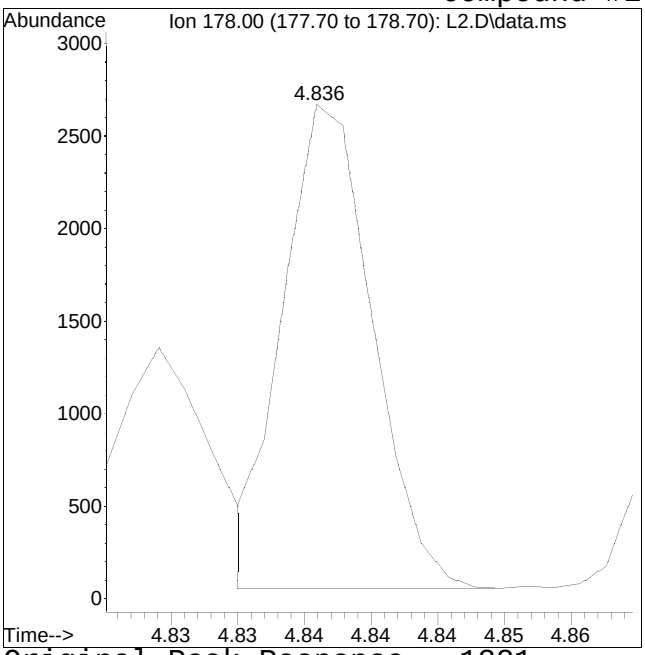
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

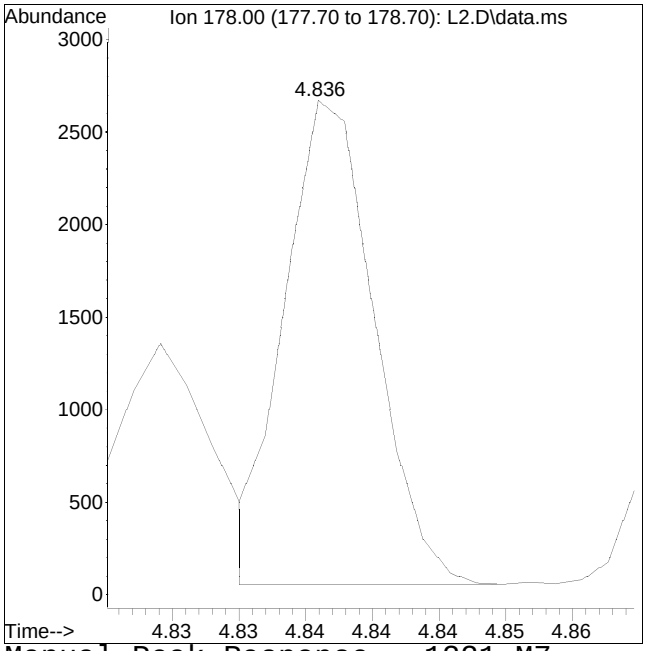
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 1221



Manual Peak Response = 1221 M7

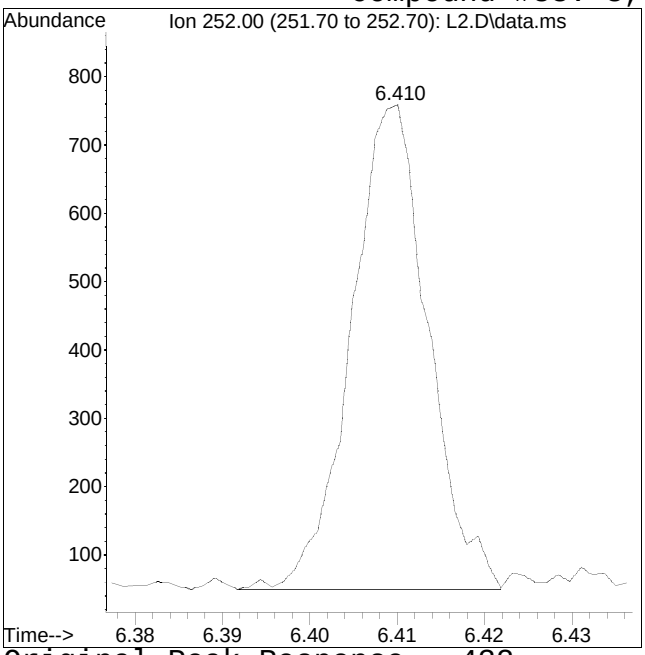
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

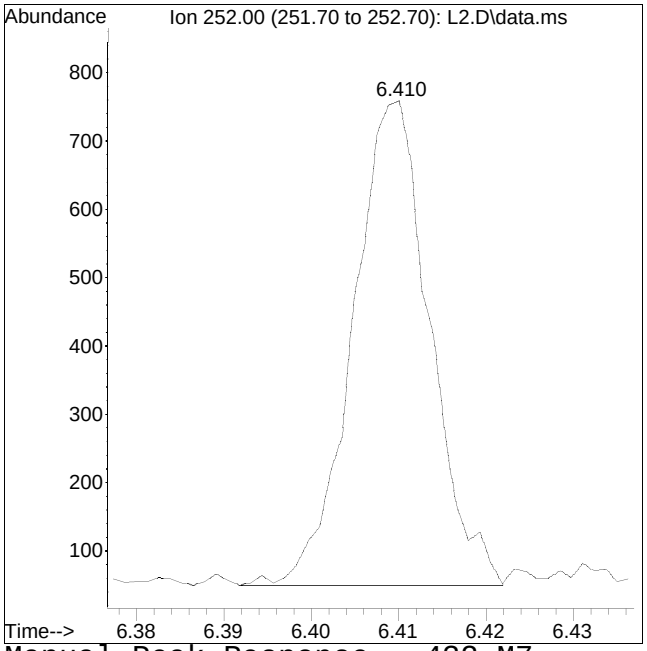
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 432



Manual Peak Response = 432 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L1.D
Acq On : 29 Dec 2024 04:09 pm
Operator : sv119:jjw
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG2015284,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 31 16:09:17 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.350	152	366307	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 119.87%			
8) Naphthalene-d8	3.010	136	1329353	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 115.95%			
17) Acenaphthene-d10	3.983	164	822777	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 115.10%			
22) Phenanthrene-d10	4.825	188	1715899	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 112.81%			
31) Chrysene-d12	6.435	240	1842638	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 118.65%			
36) Perylene-d12	7.742	264	1784873	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 114.23%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.762	112	107	1.090	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
3) Phenol-d6	2.155	99	122	0.996	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
7) Nitrobenzene-d5	2.628	82	144	1.212	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.12%#			
13) 2-Fluorobiphenyl	3.601	172	345	1.064	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
21) 2,4,6-Tribromophenol	4.427	330	45M7	1.253	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.06%#			
30) 4-Terphenyl-d14	5.758	244	522	1.226	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.12%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.213	93	160	1.415	ng/ml	100
5) n-nitrosodi-n-propylamine	2.549	70	84M7	1.109	ng/ml	
6) Hexachloroethane	2.610	117	56	1.179	ng/ml	92
9) Naphthalene	3.021	128	400M6	1.079	ng/ml	
10) Hexachlorobutadiene	3.092	225	68	1.042	ng/ml	88
11) 2-Methylnaphthalene	3.399	142	277	1.069	ng/ml	98
12) 1-Methylnaphthalene	3.454	142	255	1.069	ng/ml	98
14) 2-Chloronaphthalene	3.668	162	293	1.095	ng/ml	97
15) 2,6-Dinitrotoluene	3.855	165	122M4	1.850	ng/ml	
16) Acenaphthylene	3.902	152	432	1.042	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L1.D
Acq On : 29 Dec 2024 04:09 pm
Operator : sv119:jjw
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG2015284,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 31 16:09:17 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.998	153	290	1.057	ng/ml	92
19) 2,4-Dinitrotoluene	4.086	165	81	0.928	ng/ml#	87
20) Fluorene	4.290	166	327	1.037	ng/ml	91
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.609	284	111	1.097	ng/ml	100
25) Pentachlorophenol	4.720	266	588	4.240	ng/ml	97
26) Phenanthrene	4.838	178	555M7	1.106	ng/ml	
27) Anthracene	4.866	178	547	1.087	ng/ml	100
28) Fluoranthene	5.528	202	682	1.087	ng/ml	97
29) Pyrene	5.665	202	695	1.073	ng/ml	94
32) Benzo[a]anthracene	6.435	228	5699	0.997	ng/ml#	78
33) 3,3'-Dichlorobenzidine	6.409	252	238M7	28.031	ng/ml	
34) Chrysene	6.450	228	675	1.064	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.451	149	761	2.312	ng/ml	99
37) Benzo[b]fluoranthene	7.331	252	615	1.040	ng/ml	99
38) Benzo[k]fluoranthene	7.357	252	628	1.077	ng/ml	96
39) Benzo[a]pyrene	7.666	252	512	1.020	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.037	276	488	1.004	ng/ml	93
41) Dibenzo[a,h]anthracene	9.077	278	430	0.954	ng/ml	99
42) Benzo[g,h,i]perylene	9.400	276	480	1.038	ng/ml	92

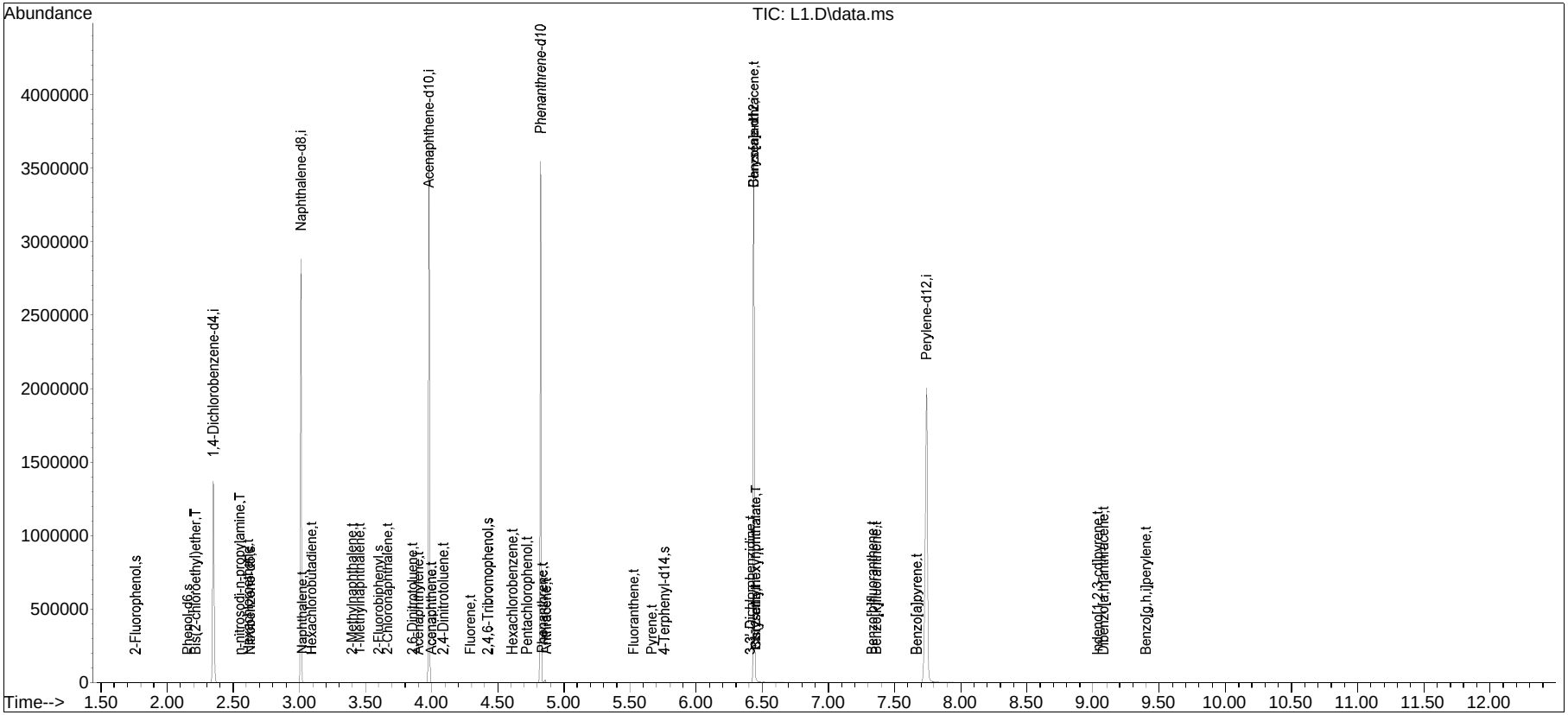
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L1.D
Acq On : 29 Dec 2024 04:09 pm
Operator : sv119:jjw
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG2015284,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 31 16:09:17 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:45 2024
Response via : Initial Calibration

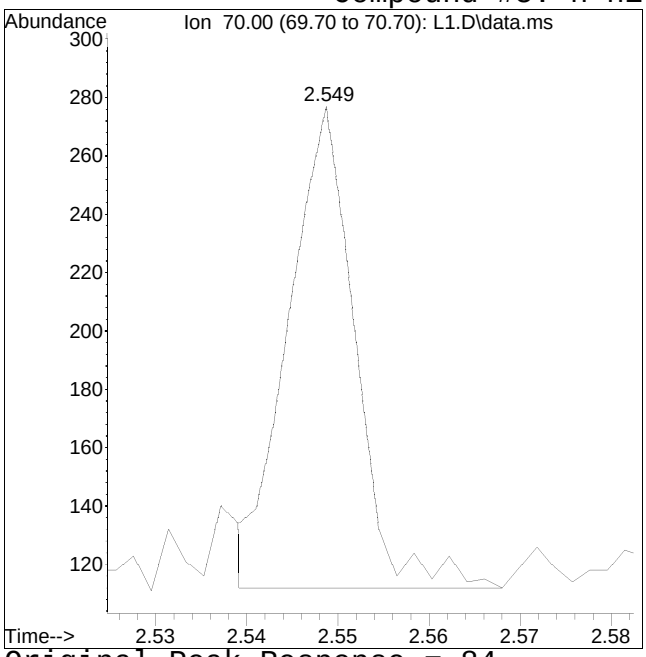
Sub List : Default - All compounds listedical\L8.D•



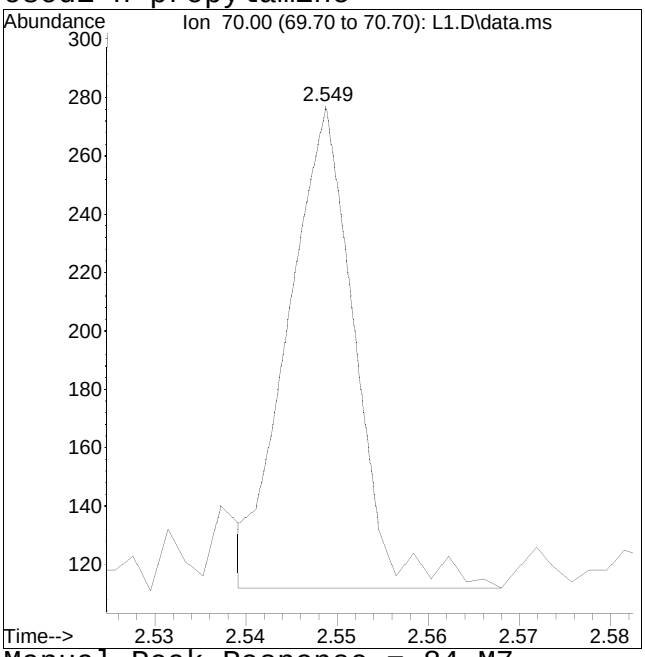
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L1.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 4:09 pm Instrument : SV119
Sample : IL1,32,, #10895 1 ng/ml Quant Date : 12/31/2024 4:06 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 84



Manual Peak Response = 84 M7

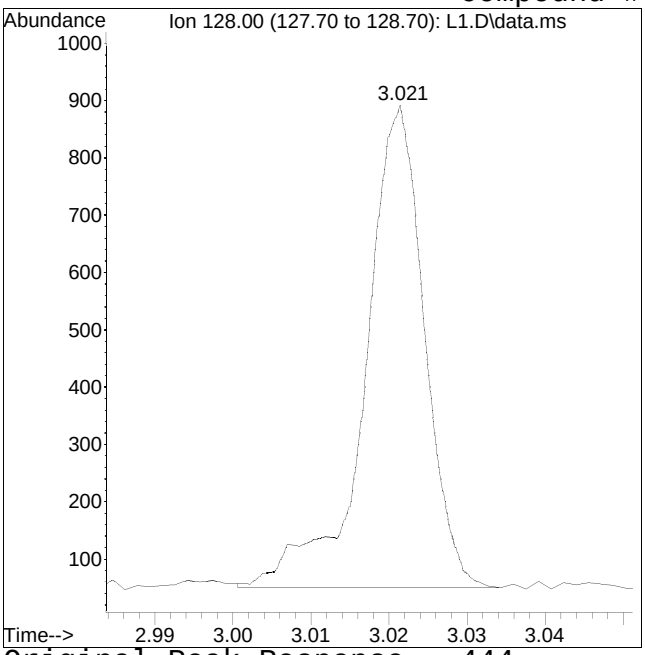
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

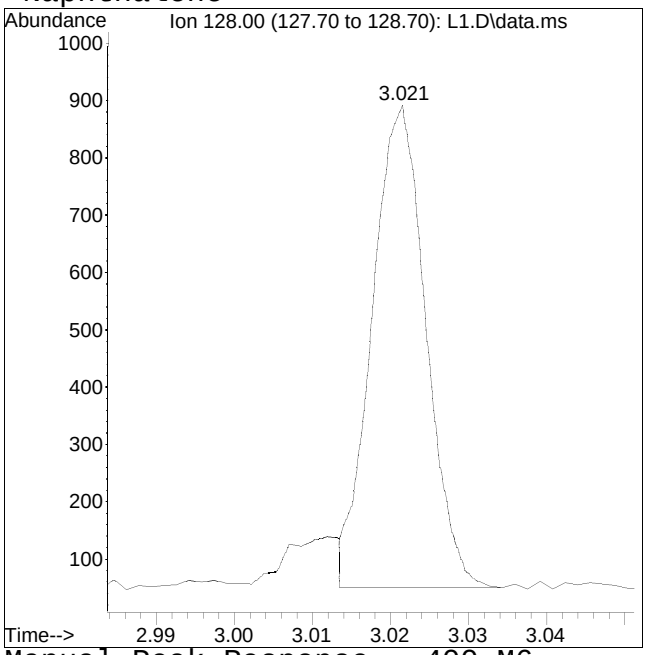
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #9: Naphthalene



Original Peak Response = 444



Manual Peak Response = 400 M6

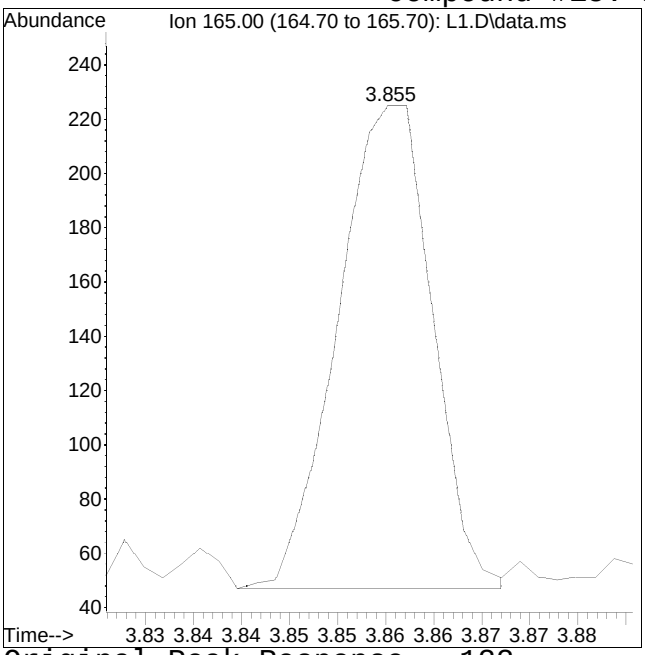
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

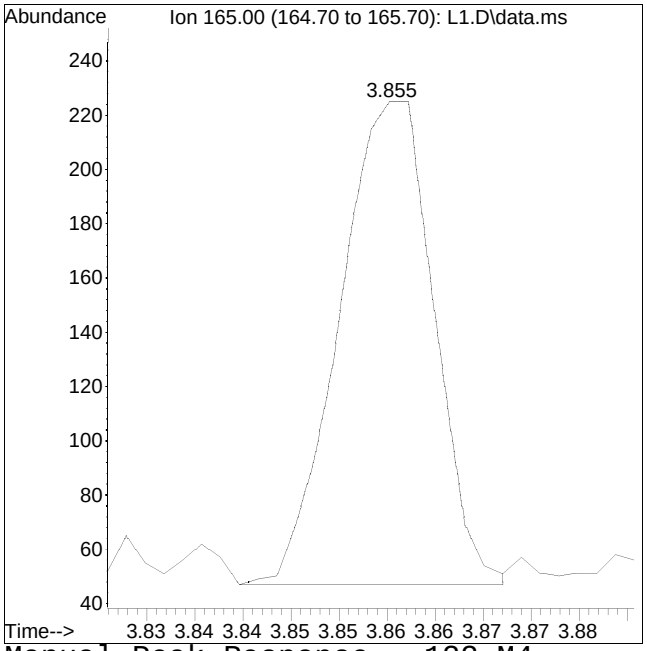
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 122



Manual Peak Response = 122 M4

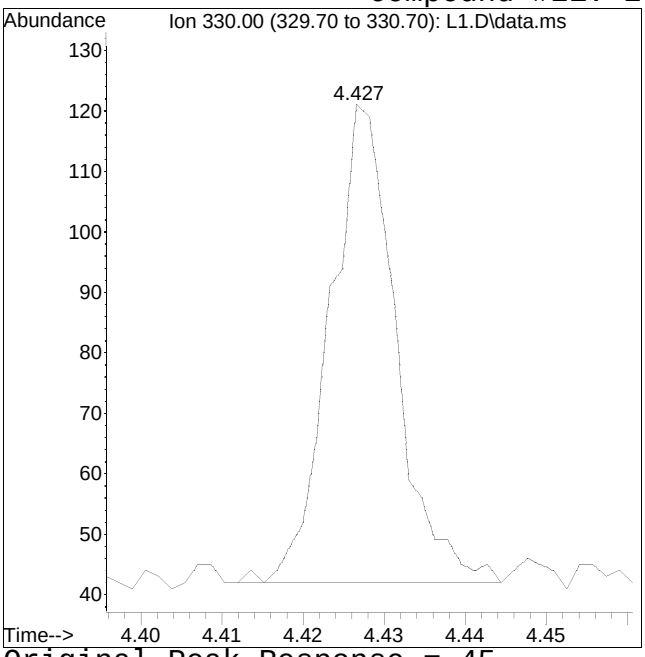
M4 = Poor automated baseline construction.

Manual Integration Report

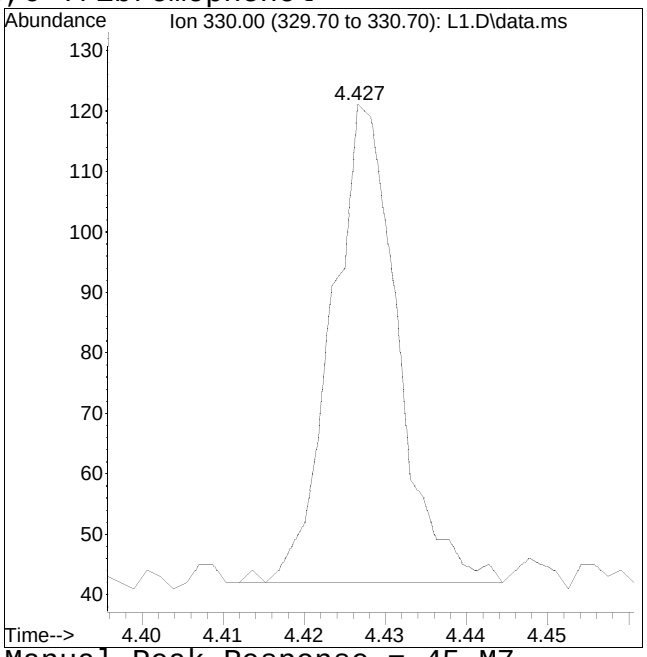
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 45



Manual Peak Response = 45 M7

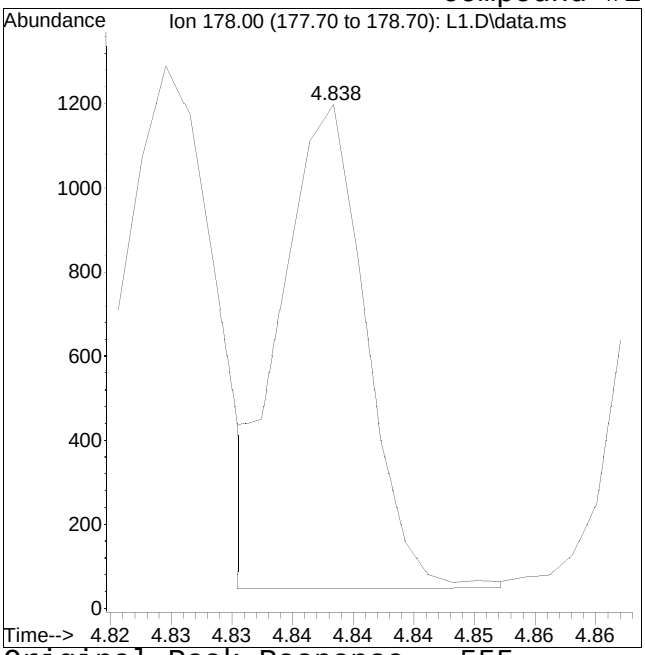
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

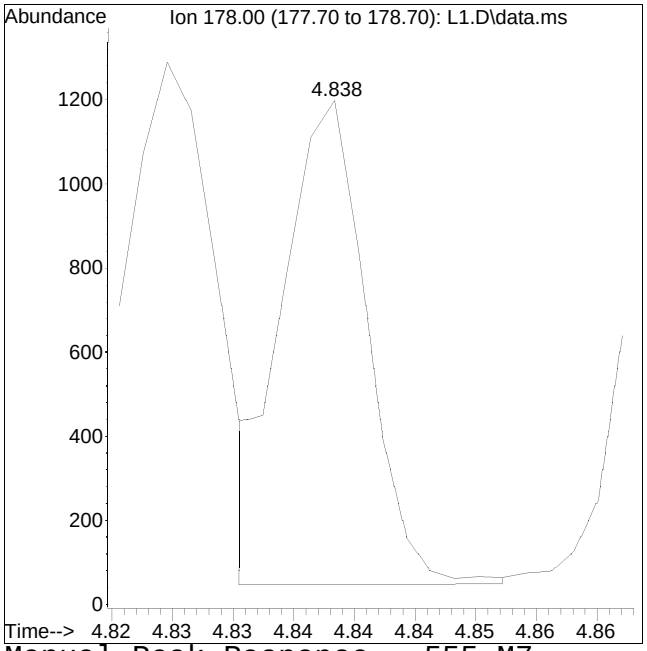
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #26: Phenanthrene



Original Peak Response = 555



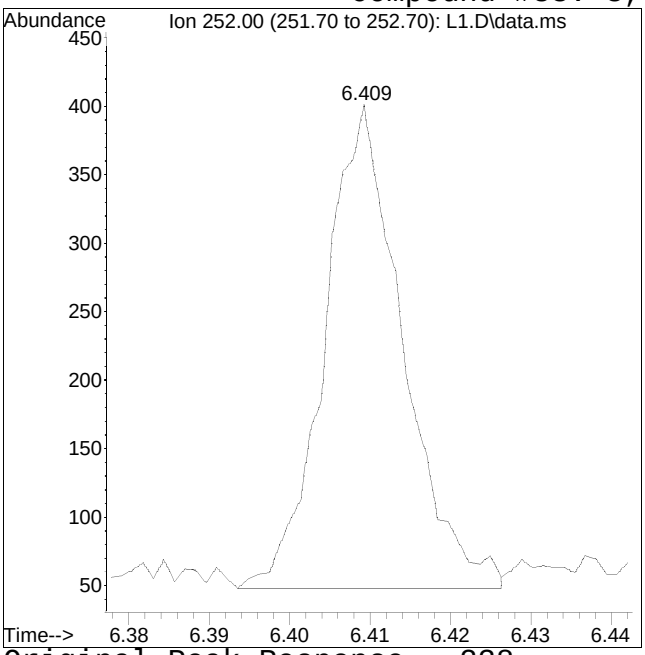
Manual Peak Response = 555 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

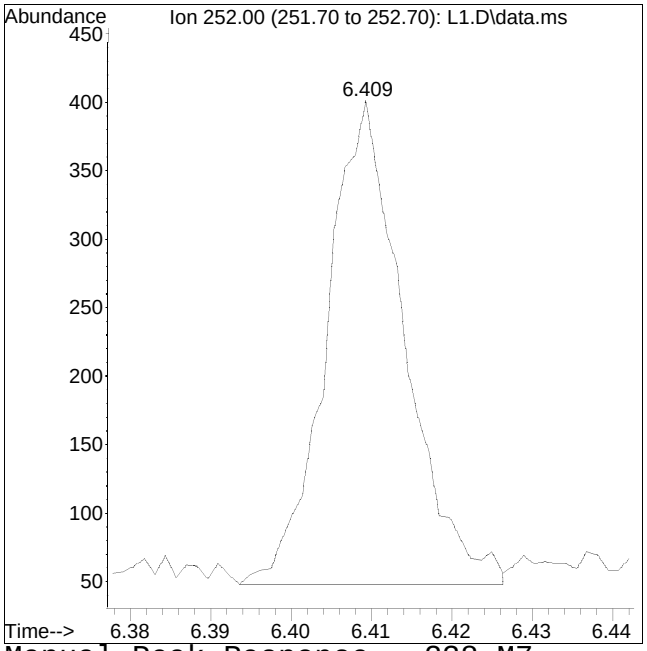
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml
Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 238



Manual Peak Response = 238 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00
2	s	2-Fluorophenol	1.072	1.202	-12.1	142	0.00
3	s	Phenol-d6	1.338	1.524	-13.9	143	0.00
4	T	Bis(2-chloroethyl)ether	1.235	1.293	-4.7	142	0.00
5	T	n-nitrosodi-n-propylamine	0.827	0.897	-8.5	137	0.00
6	t	Hexachloroethane	0.518	0.538	-3.9	138	0.00
7	s	Nitrobenzene-d5	1.297	1.422	-9.6	141	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	128	0.00
9	t	Naphthalene	1.116	1.136	-1.8	139	0.00
10	t	Hexachlorobutadiene	0.196	0.207	-5.6	141	0.00
11	t	2-Methylnaphthalene	0.780	0.836	-7.2	143	0.00
12	t	1-Methylnaphthalene	0.718	0.767	-6.8	142	0.00
13	s	2-Fluorobiphenyl	0.975	1.021	-4.7	142	0.00
14	t	2-Chloronaphthalene	0.805	0.844	-4.8	140	0.00
15	t	2,6-Dinitrotoluene	0.198	0.224	-13.1	141	0.00
16	t	Acenaphthylene	1.247	1.319	-5.8	140	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	129	0.00
18	t	Acenaphthene	1.334	1.390	-4.2	139	0.00
19	t	2,4-Dinitrotoluene	0.424	0.496	-17.0	143	0.00
20	t	Fluorene	1.533	1.644	-7.2	139	0.00
21	s	2,4,6-Tribromophenol	0.175	0.217	-24.0#	150	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	128	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	995.824	0.4	137	0.00
24	t	Hexachlorobenzene	0.236	0.240	-1.7	140	0.00
25	t	Pentachlorophenol	*1000.000	1104.280	-10.4	145	0.00
26	t	Phenanthrene	1.170	1.216	-3.9	140	0.00
27	t	Anthracene	1.173	1.242	-5.9	140	0.00
28	t	Fluoranthene	1.463	1.497	-2.3	137	0.00
29	t	Pyrene	1.510	1.575	-4.3	140	0.00
30	s	4-Terphenyl-d14	0.992	1.028	-3.6	137	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	123	0.00
32	t	Benzo[a]anthracene	*1000.000	1090.321	-9.0	134	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	1066.308	-6.6	146	0.00
34	t	Chrysene	1.377	1.445	-4.9	134	0.00
35	T	Bis(2-ethylhexyl)phthalate	0.714	0.787	-10.2	131	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	121	0.00
37	t	Benzo[b]fluoranthene	1.326	1.405	-6.0	128	0.00
38	t	Benzo[k]fluoranthene	1.307	1.465	-12.1	137	0.00
39	t	Benzo[a]pyrene	1.125	1.271	-13.0	133	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.089	1.207	-10.8	128	0.00
41	t	Dibenzo[a,h]anthracene	1.010	1.156	-14.5	129	0.00
42	t	Benzo[g,h,i]perylene	1.036	1.146	-10.6	130	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.349	152	390319	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 127.73%			
8) Naphthalene-d8	3.010	136	1467149	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 127.97%			
17) Acenaphthene-d10	3.984	164	919354	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 128.61%			
22) Phenanthrene-d10	4.826	188	1939636	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 127.52%			
31) Chrysene-d12	6.440	240	1902556	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 122.51%			
36) Perylene-d12	7.743	264	1890967	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 121.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.761	112	117258	1121.213	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 56.06%			
3) Phenol-d6	2.153	99	148674	1139.002	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 56.95%			
7) Nitrobenzene-d5	2.627	82	138765	1096.287	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 109.63%			
13) 2-Fluorobiphenyl	3.603	172	374656	1047.236	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 104.72%			
21) 2,4,6-Tribromophenol	4.428	330	49773	1240.445	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 62.02%			
30) 4-Terphenyl-d14	5.760	244	498657	1036.324	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 103.63%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	126146	1047.040	ng/ml#	79
5) n-nitrosodi-n-propylamine	2.546	70	87535	1084.108	ng/ml	100
6) Hexachloroethane	2.608	117	52517	1038.064	ng/ml	93
9) Naphthalene	3.021	128	416784	1018.565	ng/ml	99
10) Hexachlorobutadiene	3.092	225	75773	1052.259	ng/ml	100
11) 2-Methylnaphthalene	3.398	142	306508	1071.912	ng/ml	98
12) 1-Methylnaphthalene	3.454	142	281151	1067.840	ng/ml	98
14) 2-Chloronaphthalene	3.670	162	309748	1048.846	ng/ml	98
15) 2,6-Dinitrotoluene	3.859	165	82208	1129.566	ng/ml#	92
16) Acenaphthylene	3.902	152	483748	1057.725	ng/ml	100
18) Acenaphthene	4.002	153	319572	1042.243	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.086	165	114104	1169.850	ng/ml#	92
20) Fluorene	4.292	166	377766	1072.352	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.318	198	63393	995.824	ng/ml	97
24) Hexachlorobenzene	4.609	284	116516	1019.105	ng/ml	90
25) Pentachlorophenol	4.718	266	64222	1104.280	ng/ml	100
26) Phenanthrene	4.838	178	589743	1039.891	ng/ml	99
27) Anthracene	4.868	178	602433	1059.503	ng/ml	99
28) Fluoranthene	5.529	202	725789	1022.923	ng/ml	97
29) Pyrene	5.667	202	763953	1043.134	ng/ml	100
32) Benzo[a]anthracene	6.430	228	734331	1090.321	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.413	252	255382	1066.308	ng/ml	99
34) Chrysene	6.456	228	687425	1049.395	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.454	149	374501	1102.022	ng/ml	99
37) Benzo[b]fluoranthene	7.337	252	664339	1060.059	ng/ml	100
38) Benzo[k]fluoranthene	7.365	252	692334	1120.260	ng/ml	97
39) Benzo[a]pyrene	7.670	252	600762	1129.737	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.044	276	570718	1108.579	ng/ml	93
41) Dibenzo[a,h]anthracene	9.086	278	546347	1143.971	ng/ml	92
42) Benzo[g,h,i]perylene	9.416	276	541938	1106.007	ng/ml	93

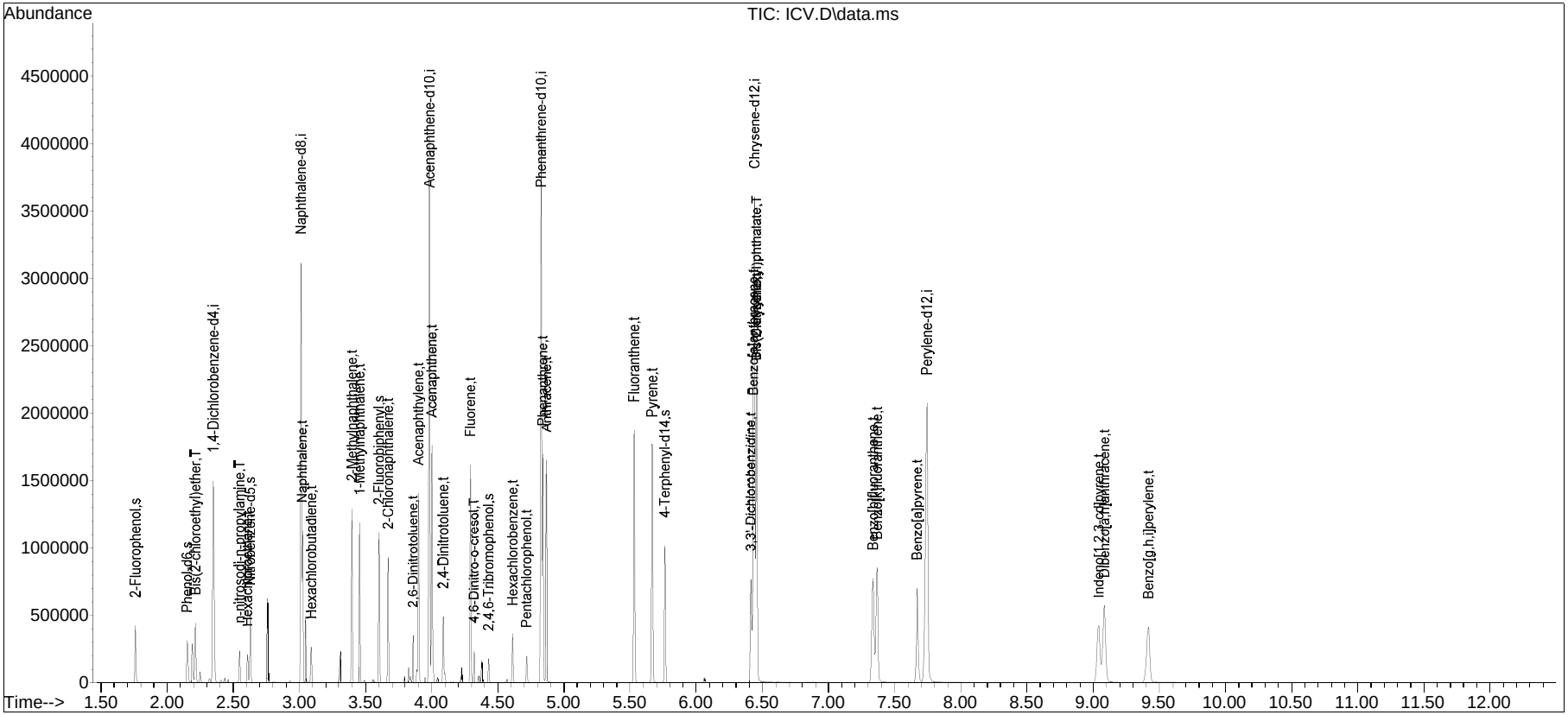
(#) = qualifier out of range (m) = manual integration (+) = signals summed

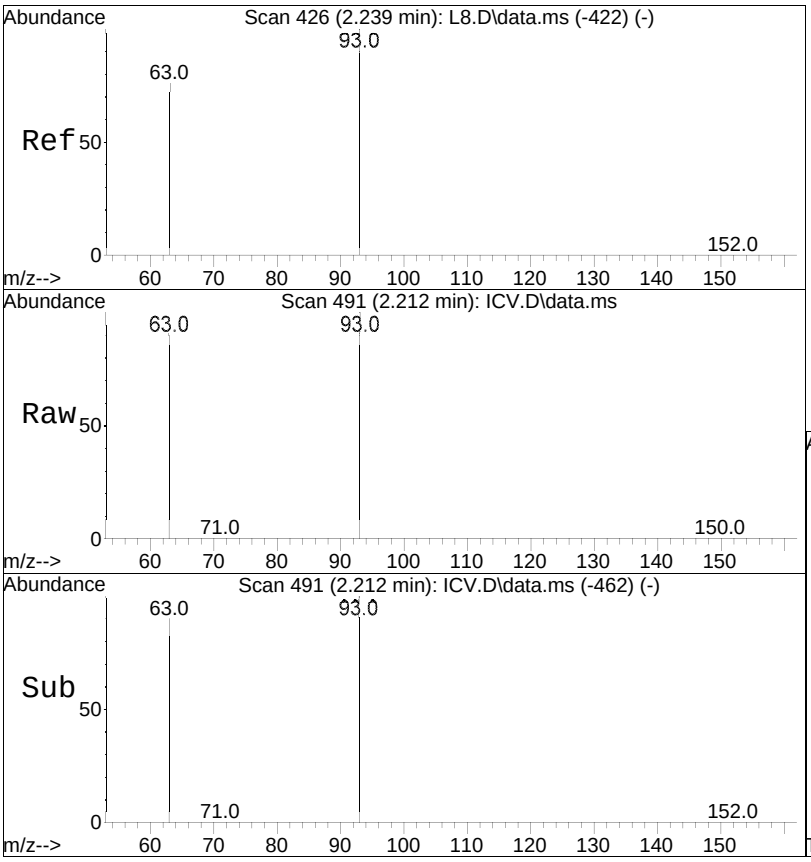
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

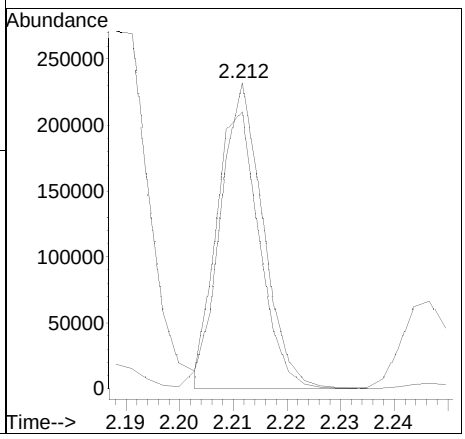


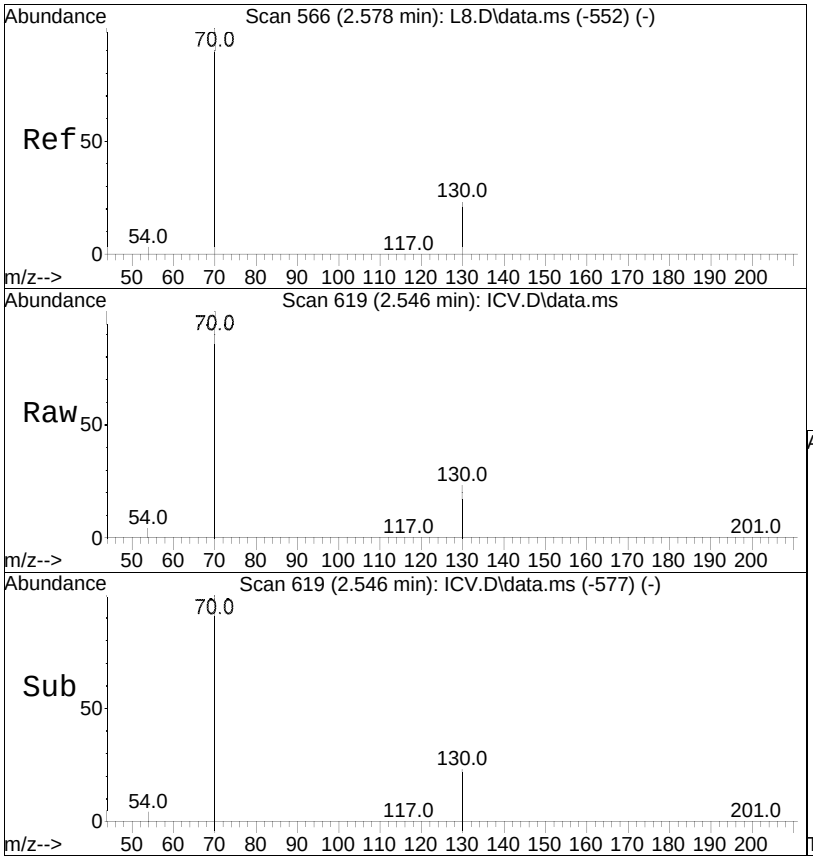


#4
Bis(2-chloroethyl)ether
Concen: 1047.04 ng/ml
RT: 2.212 min Scan# 491
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion: 93 Resp: 126146

Ion	Ratio	Lower	Upper
93	100		
63	95.2	61.7	92.5#

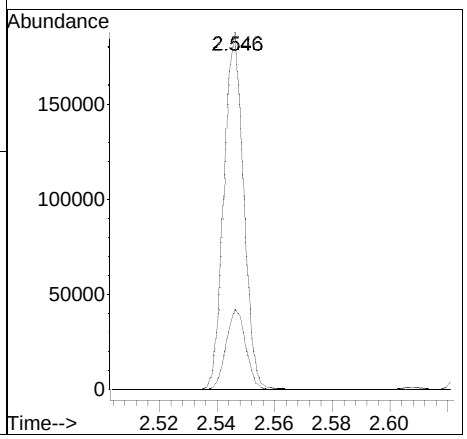


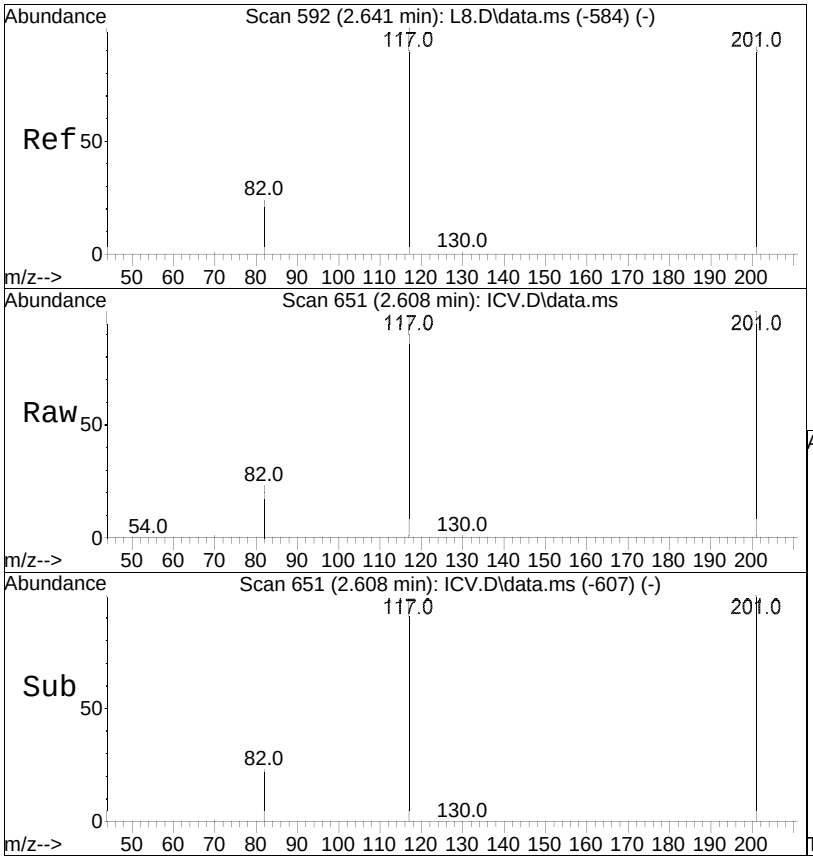


#5
n-nitrosodi-n-propylamine
Concen: 1084.11 ng/ml
RT: 2.546 min Scan# 619
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion: 70 Resp: 87535

Ion	Ratio	Lower	Upper
70	100		
130	22.7	18.1	27.1

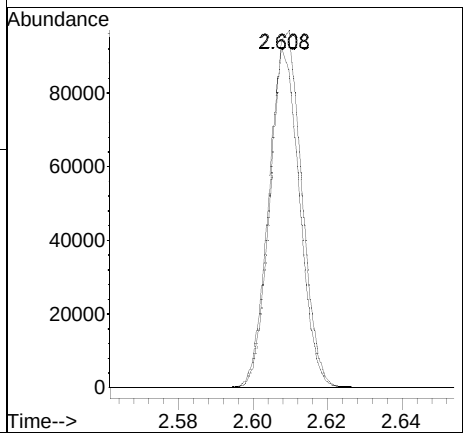


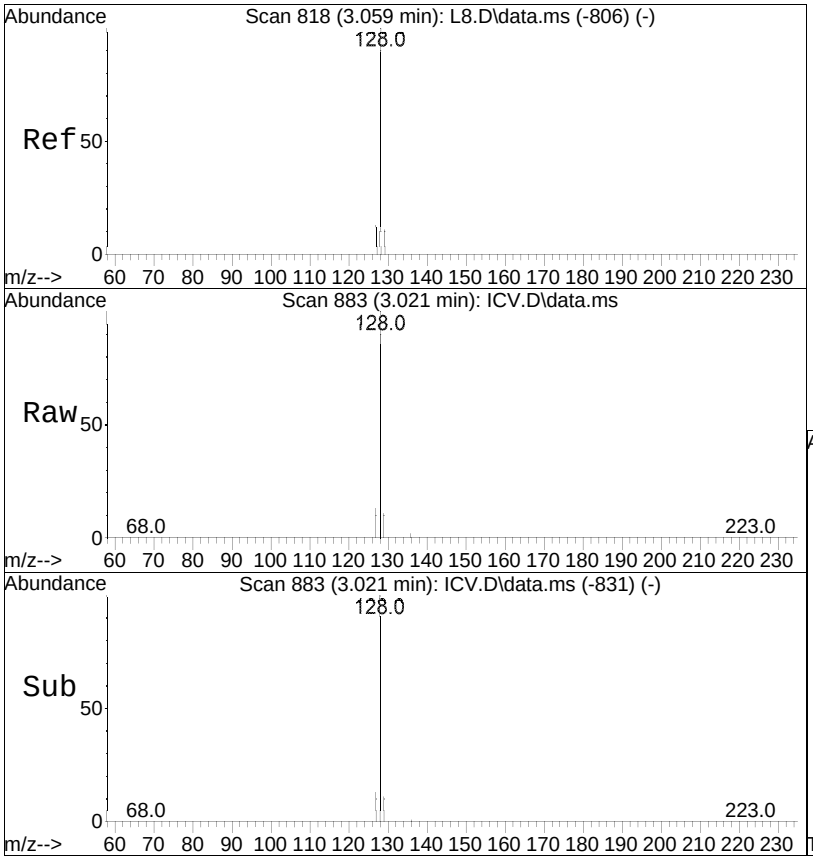


#6
Hexachloroethane
Concen: 1038.06 ng/ml
RT: 2.608 min Scan# 651
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:117 Resp: 52517

Ion	Ratio	Lower	Upper
117	100		
201	106.3	79.3	118.9

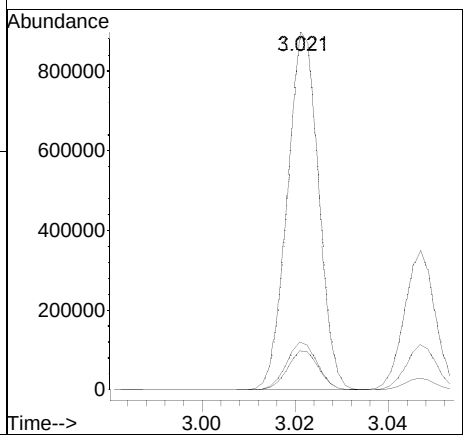


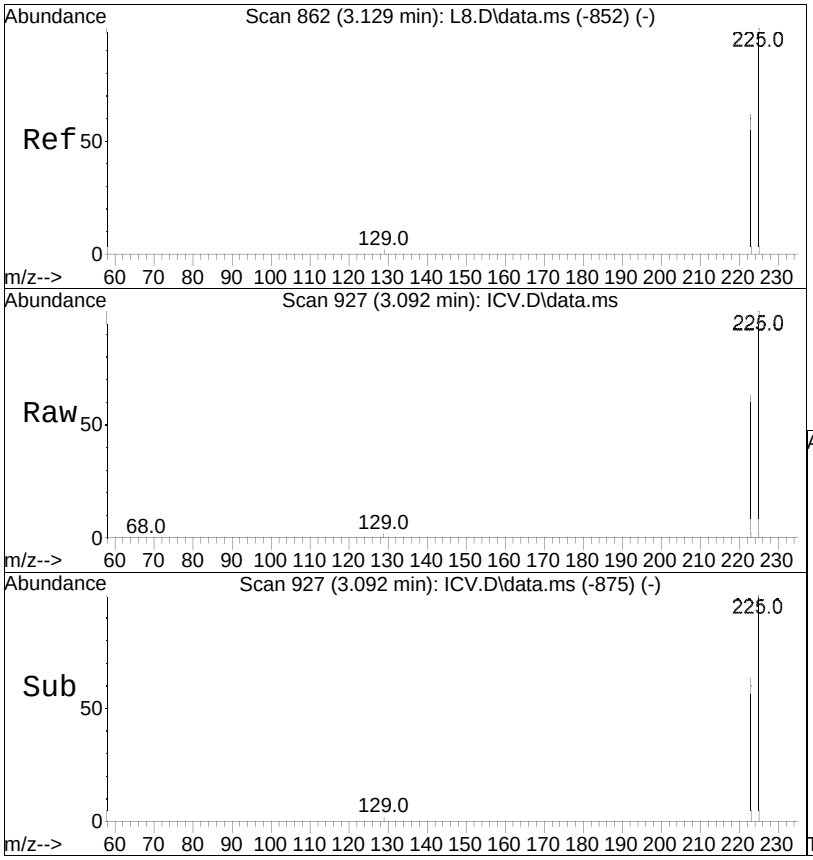


#9
Naphthalene
Concen: 1018.57 ng/ml
RT: 3.021 min Scan# 883
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:128 Resp: 416784

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.3	10.5	15.7

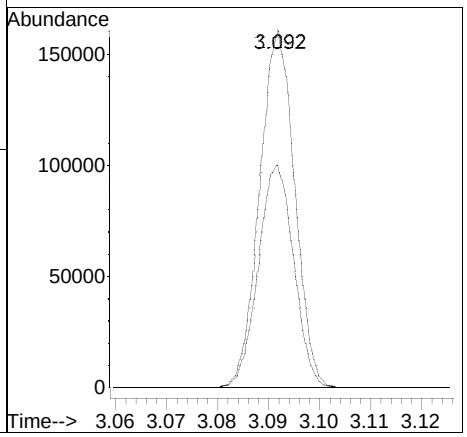


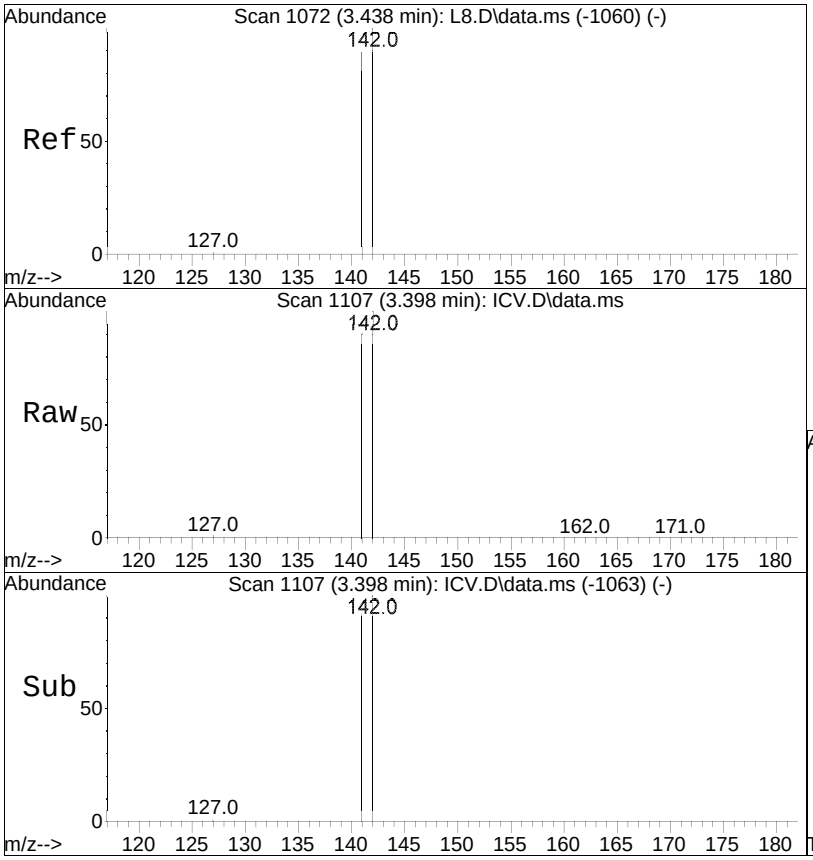


#10
Hexachlorobutadiene
Concen: 1052.26 ng/ml
RT: 3.092 min Scan# 927
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:225 Resp: 75773

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.4	75.6

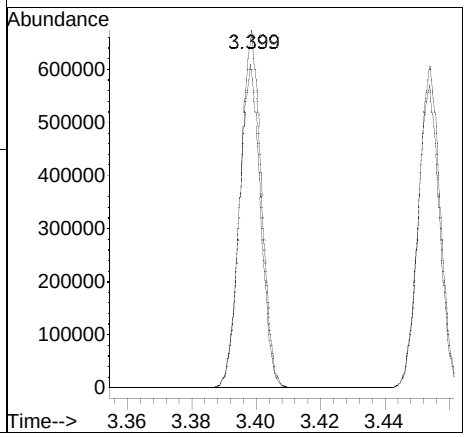


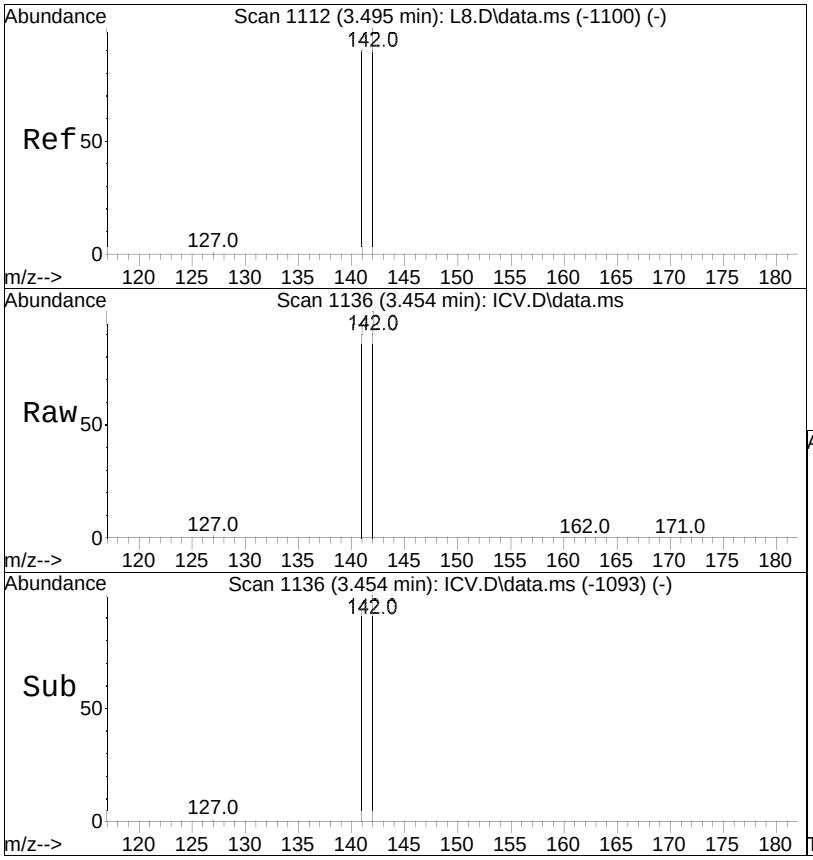


#11
2-Methylnaphthalene
Concen: 1071.91 ng/ml
RT: 3.398 min Scan# 1107
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:142 Resp: 306508

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.3	106.9

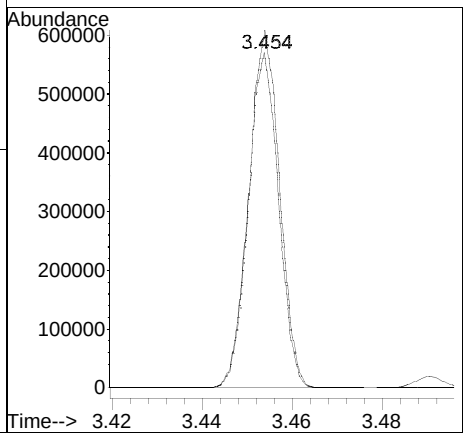


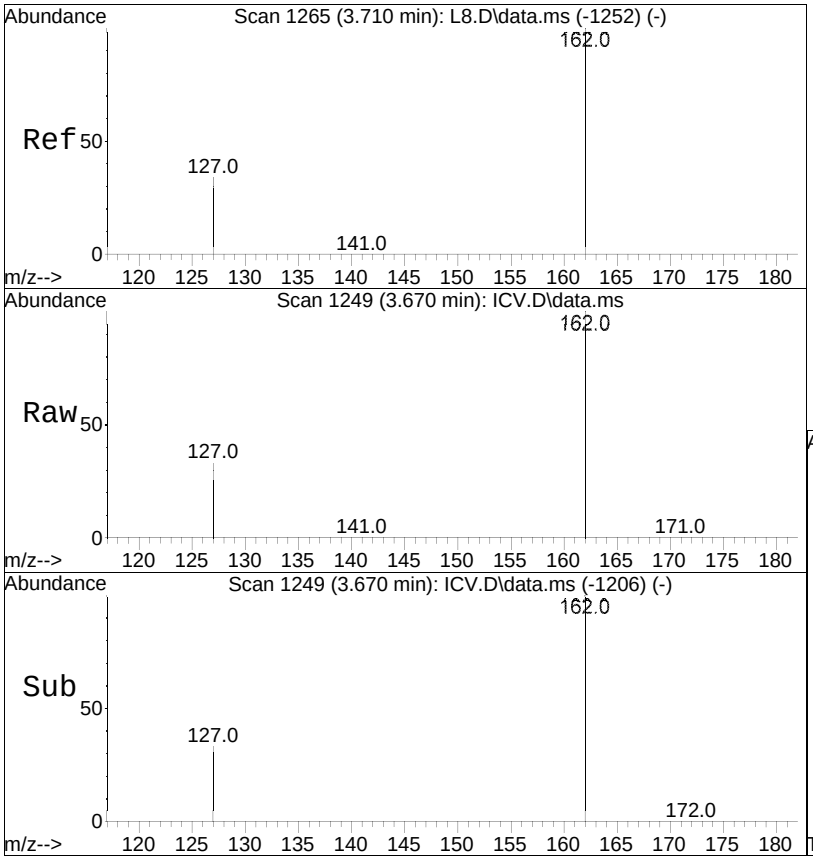


#12
1-Methylnaphthalene
Concen: 1067.84 ng/ml
RT: 3.454 min Scan# 1136
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:142 Resp: 281151

Ion	Ratio	Lower	Upper
142	100		
141	94.0	73.8	110.6

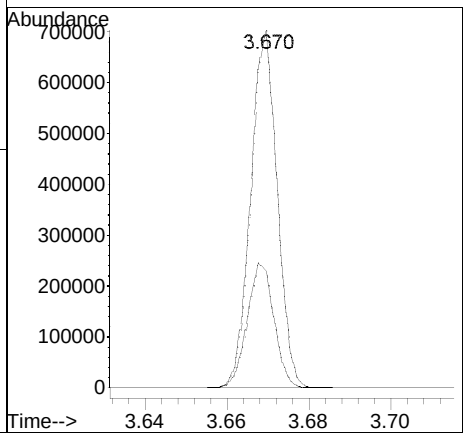


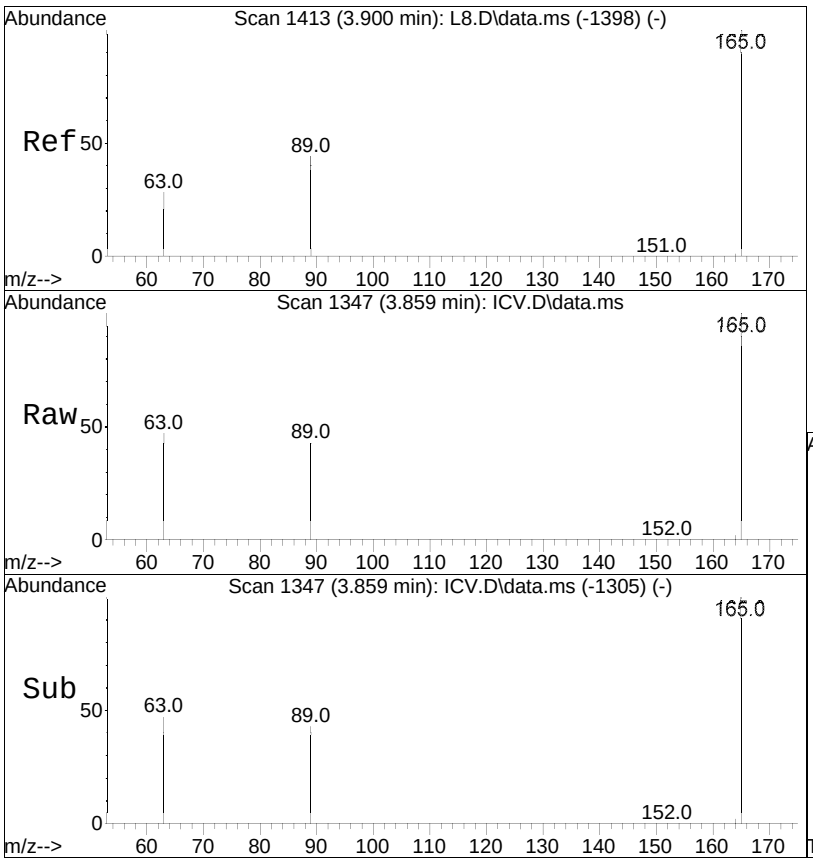


#14
2-Chloronaphthalene
Concen: 1048.85 ng/ml
RT: 3.670 min Scan# 1249
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:162 Resp: 309748

Ion	Ratio	Lower	Upper
162	100		
127	35.4	27.4	41.0

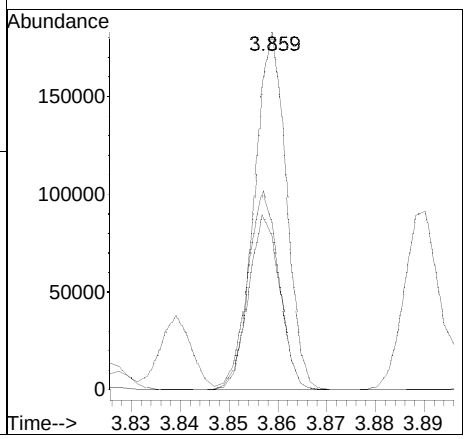


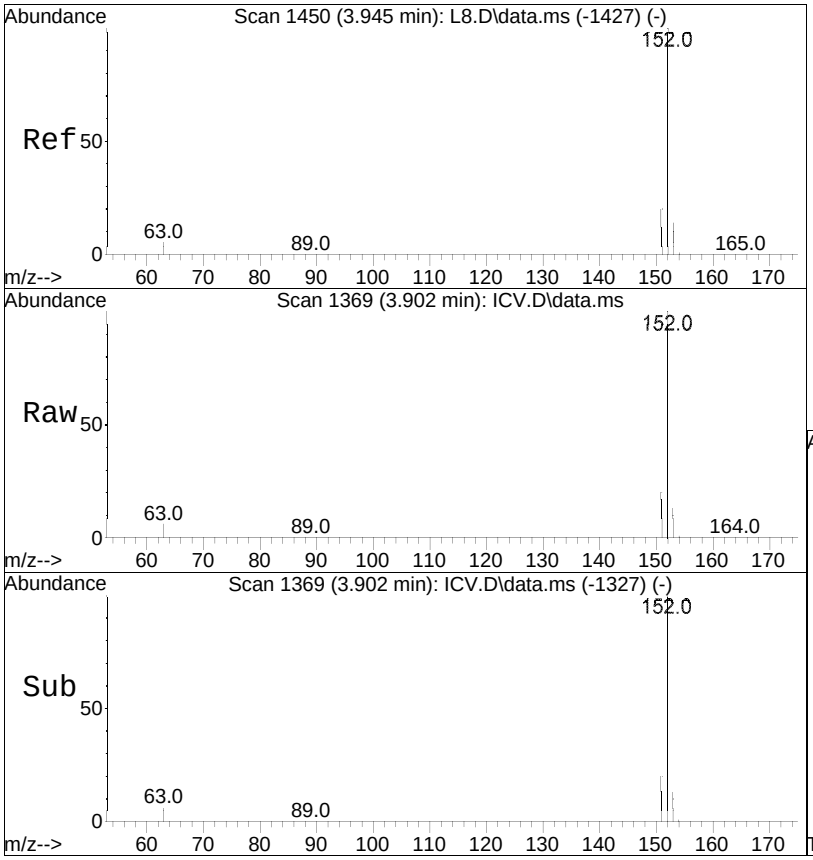


#15
2,6-Dinitrotoluene
Concen: 1129.57 ng/ml
RT: 3.859 min Scan# 1347
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:165 Resp: 82208

Ion	Ratio	Lower	Upper
165	100		
89	49.1	37.8	56.8
63	55.4	36.9	55.3#

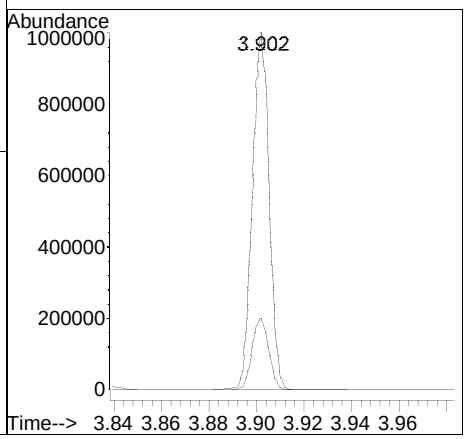


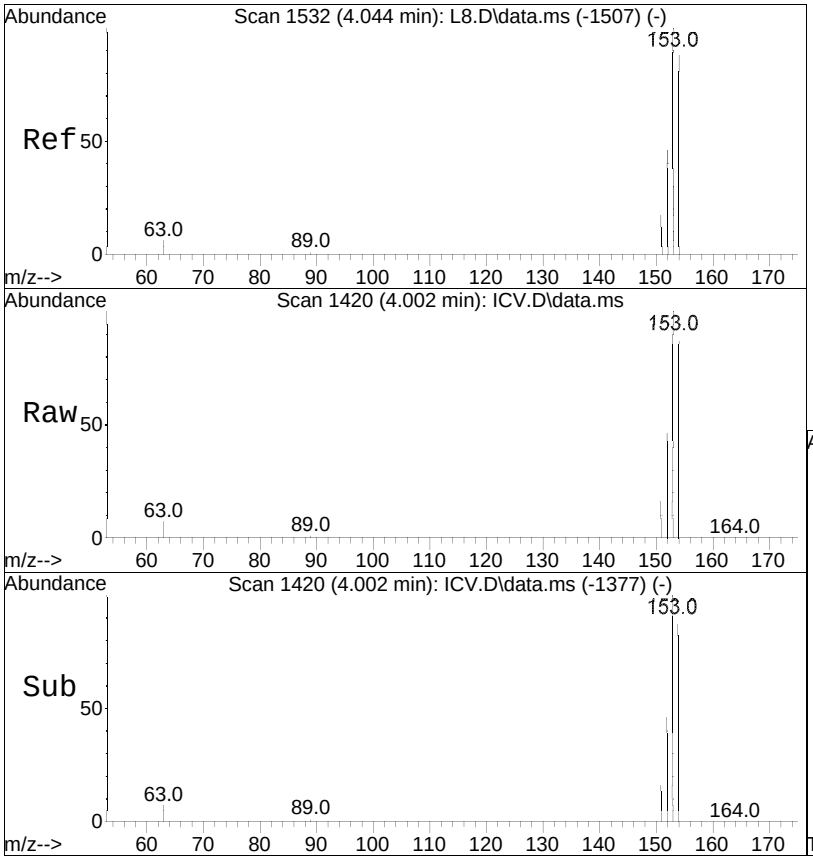


#16
Acenaphthylene
Concen: 1057.72 ng/ml
RT: 3.902 min Scan# 1369
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:152 Resp: 483748

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9

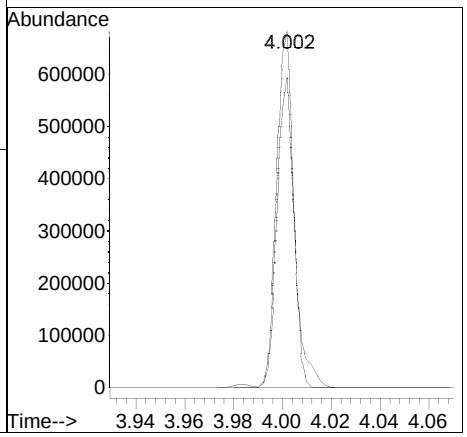


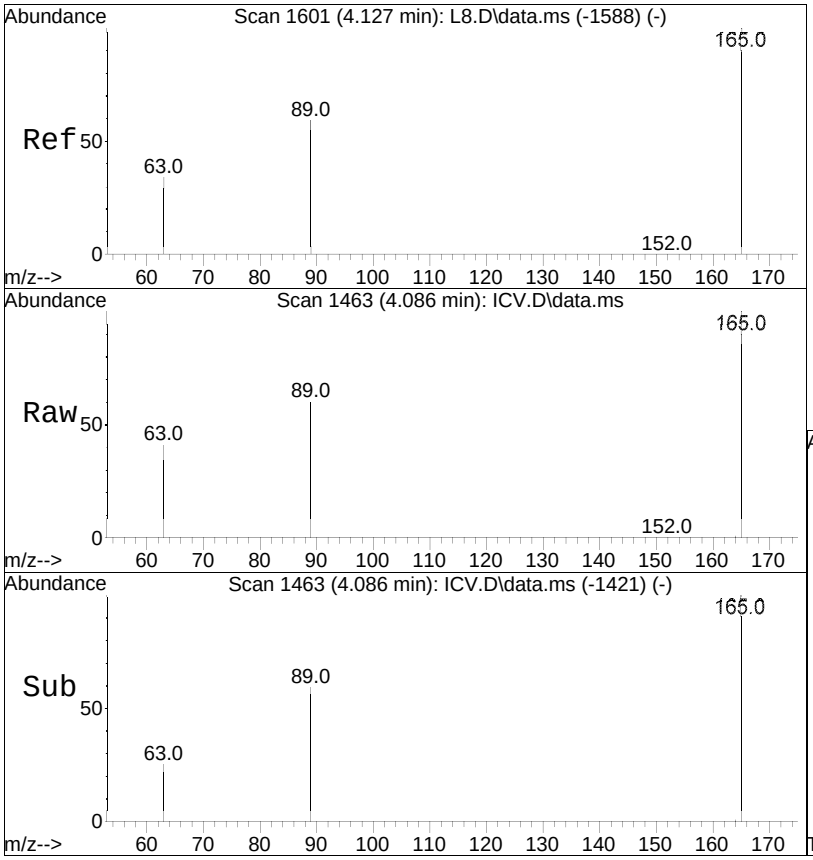


#18
Acenaphthene
Concen: 1042.24 ng/ml
RT: 4.002 min Scan# 1420
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:153 Resp: 319572

Ion	Ratio	Lower	Upper
153	100		
154	92.4	73.1	109.7

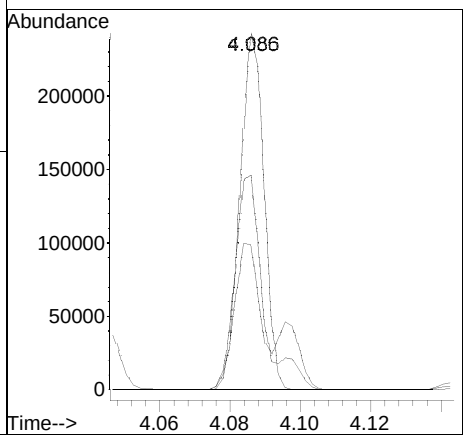


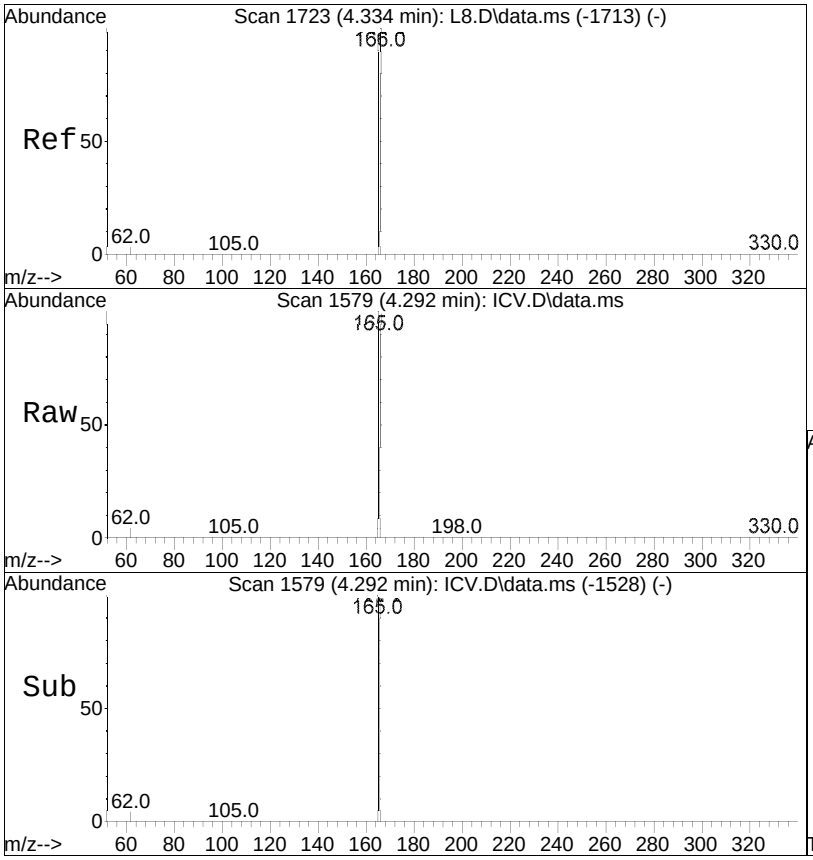


#19
2,4-Dinitrotoluene
Concen: 1169.85 ng/ml
RT: 4.086 min Scan# 1463
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:165 Resp: 114104

Ion	Ratio	Lower	Upper
165	100		
89	64.3	48.7	73.1
63	44.5	28.6	42.8#

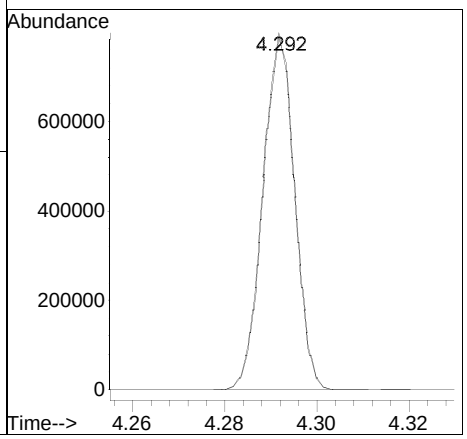


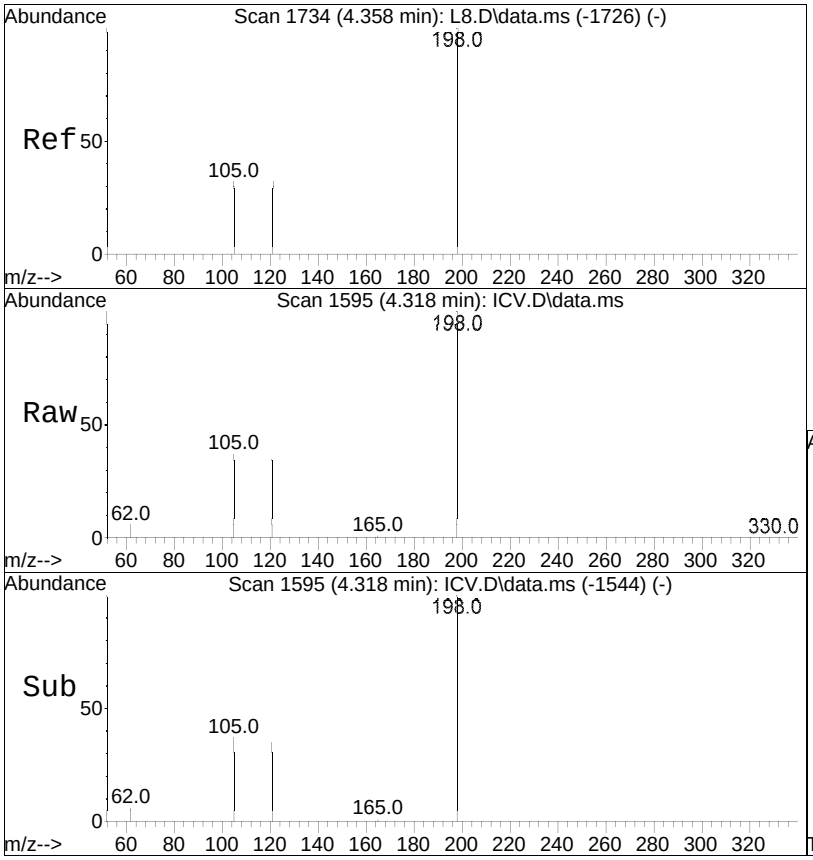


#20
Fluorene
Concen: 1072.35 ng/ml
RT: 4.292 min Scan# 1579
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:166 Resp: 377766

Ion	Ratio	Lower	Upper
166	100		
165	100.5	77.8	116.8

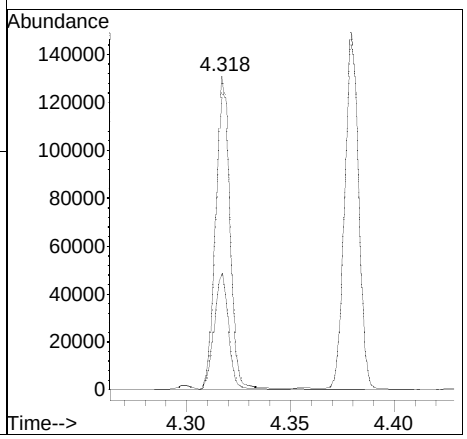


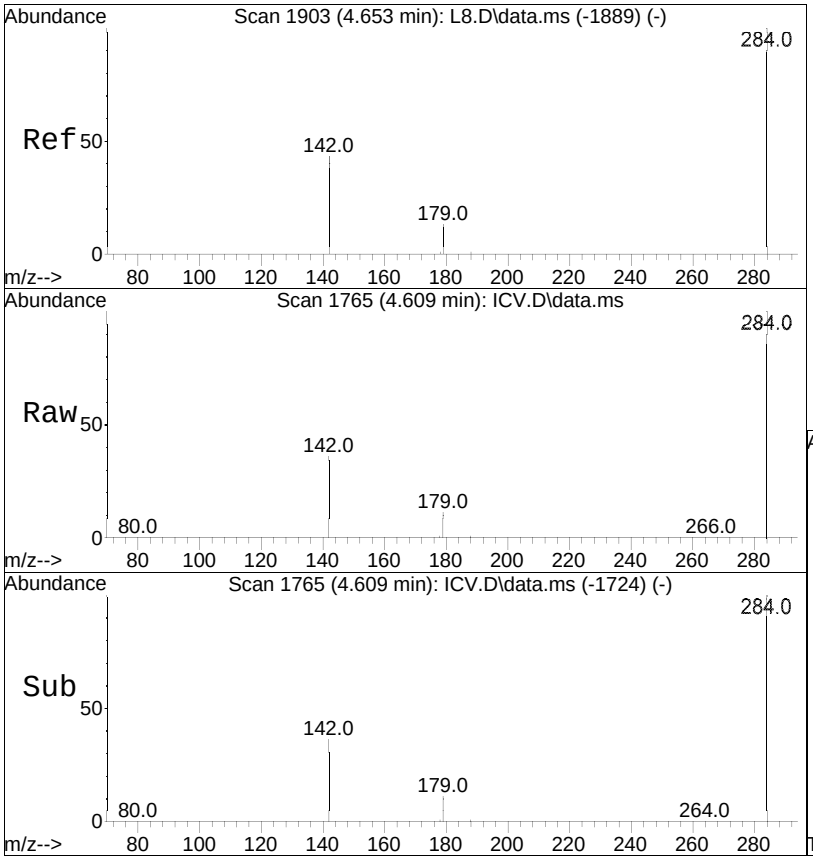


#23
4,6-Dinitro-o-cresol
Concen: 995.82 ng/ml
RT: 4.318 min Scan# 1595
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:198 Resp: 63393

Ion	Ratio	Lower	Upper
198	100		
105	36.5	30.6	45.8

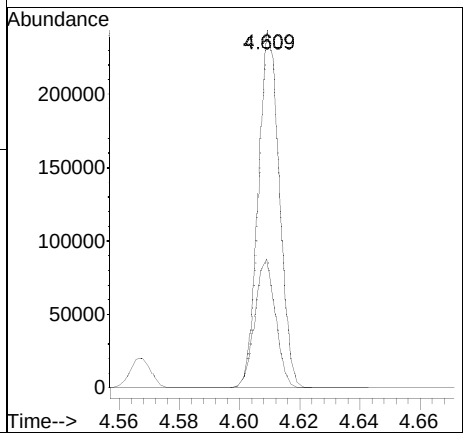


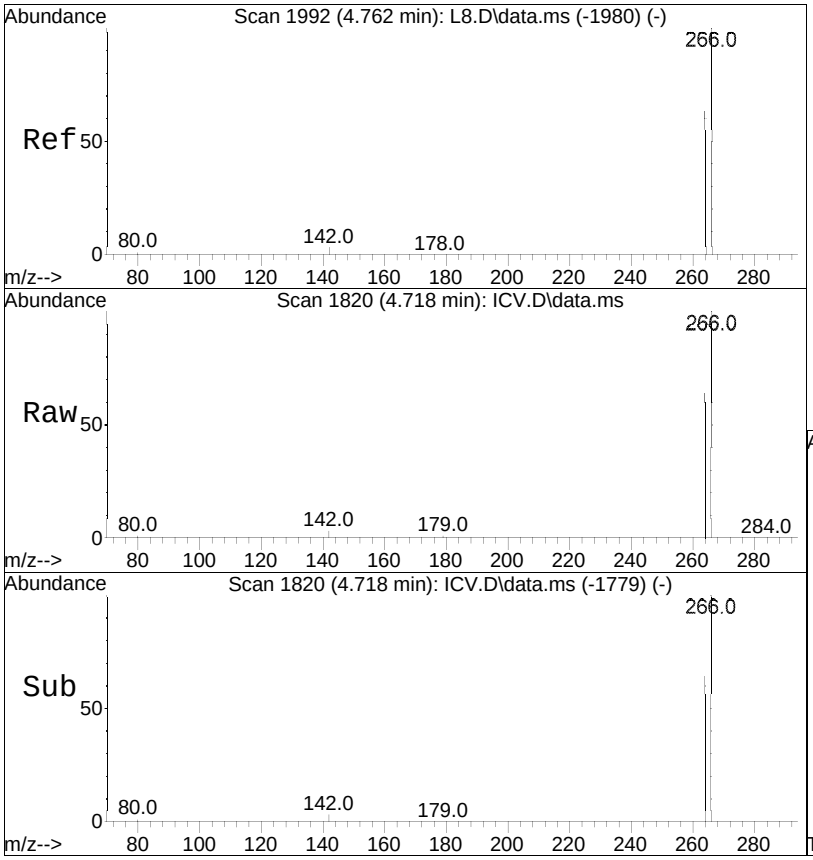


#24
Hexachlorobenzene
Concen: 1019.10 ng/ml
RT: 4.609 min Scan# 1765
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:284 Resp: 116516

Ion	Ratio	Lower	Upper
284	100		
142	35.7	33.8	50.6

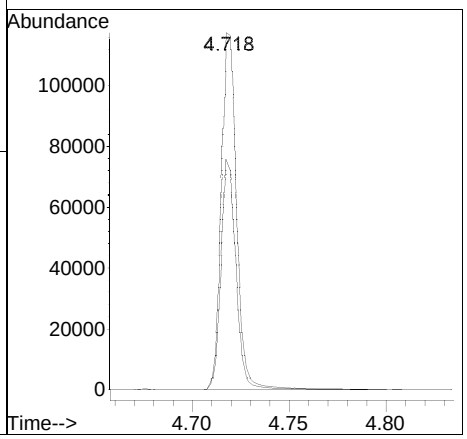


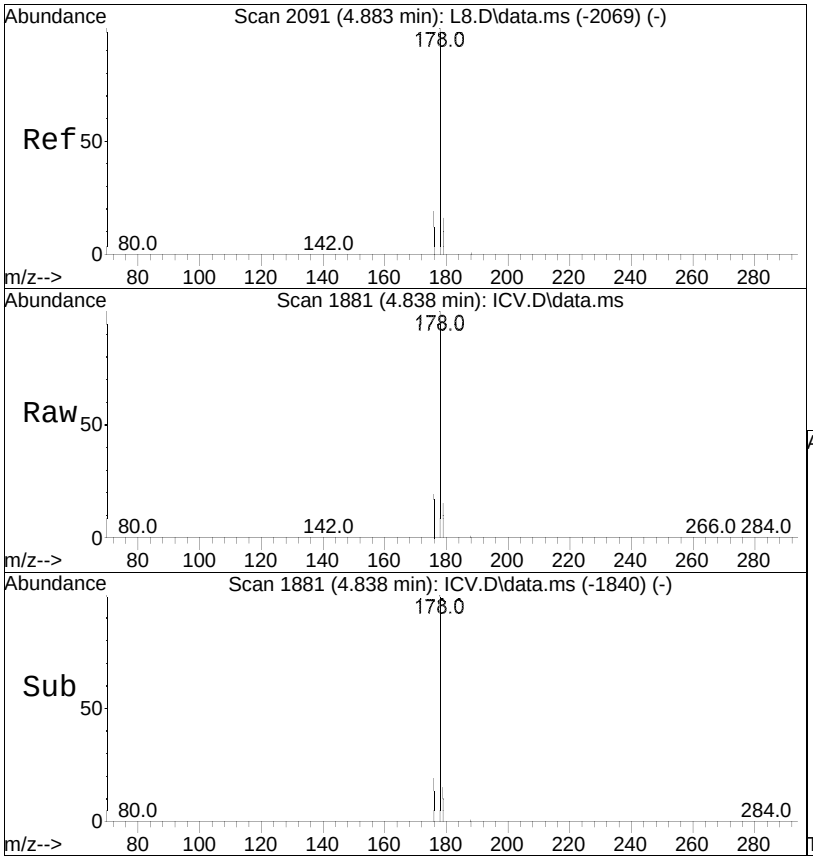


#25
Pentachlorophenol
Concen: 1104.28 ng/ml
RT: 4.718 min Scan# 1820
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:266 Resp: 64222

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.8	76.2

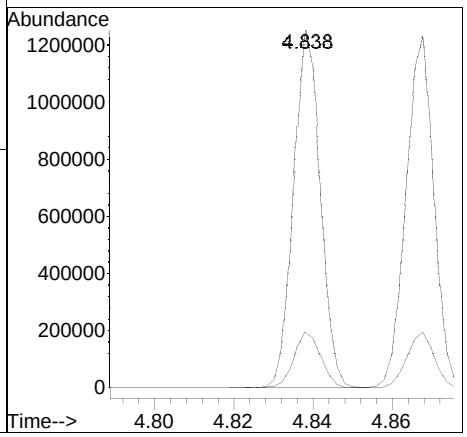


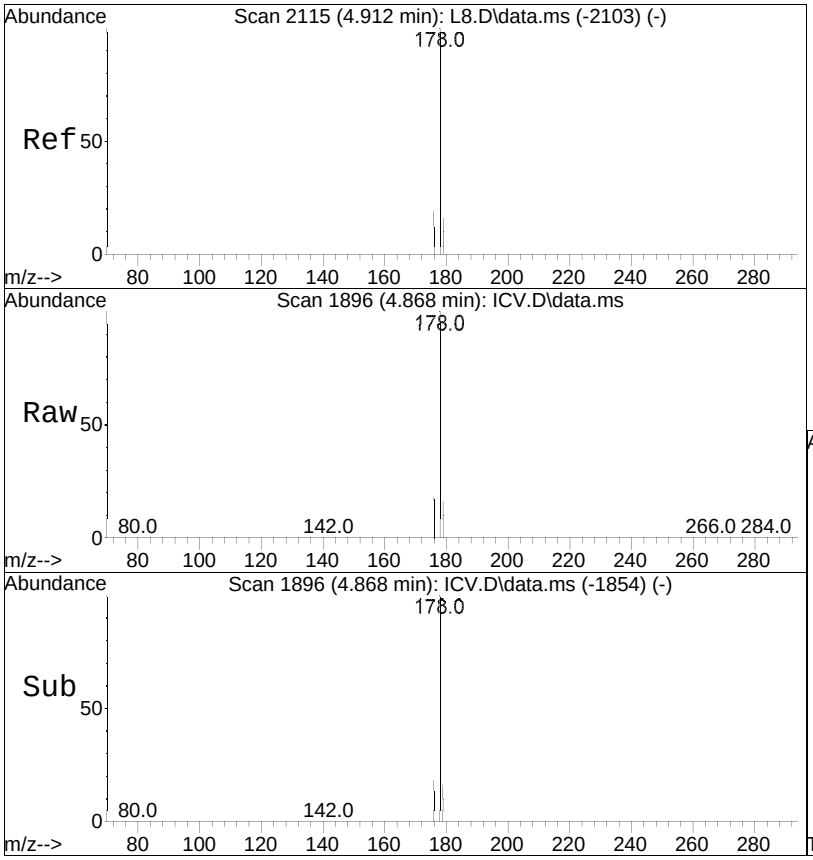


#26
Phenanthrene
Concen: 1039.89 ng/ml
RT: 4.838 min Scan# 1881
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:178 Resp: 589743

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.8	19.2

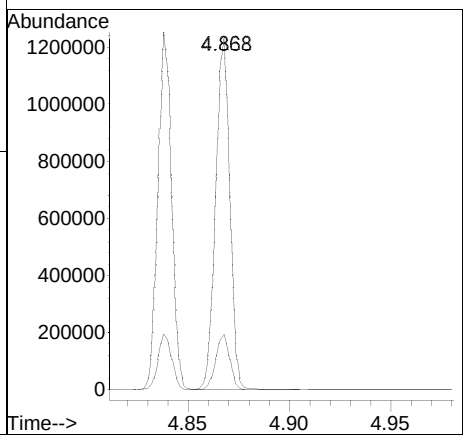


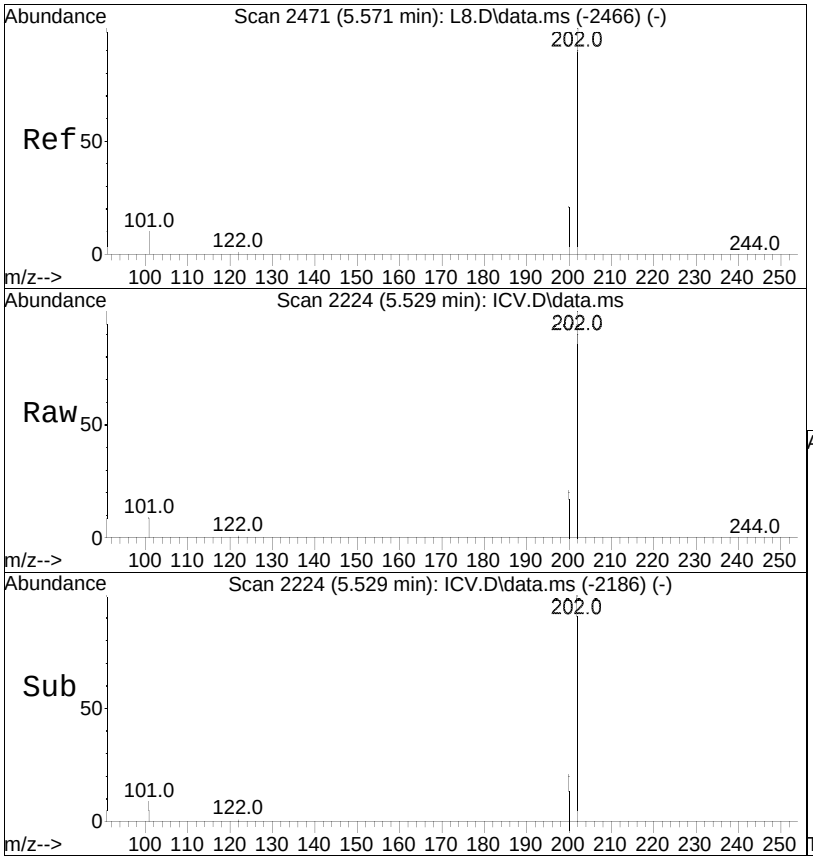


#27
Anthracene
Concen: 1059.50 ng/ml
RT: 4.868 min Scan# 1896
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:178 Resp: 602433

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.6	18.8

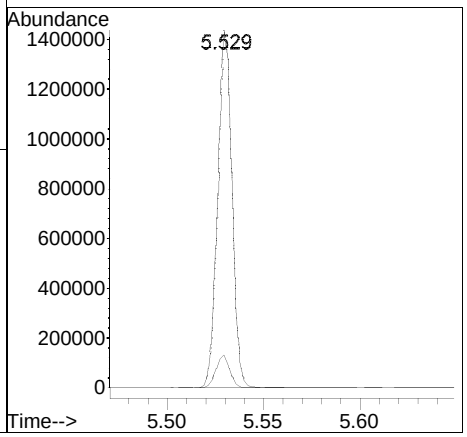


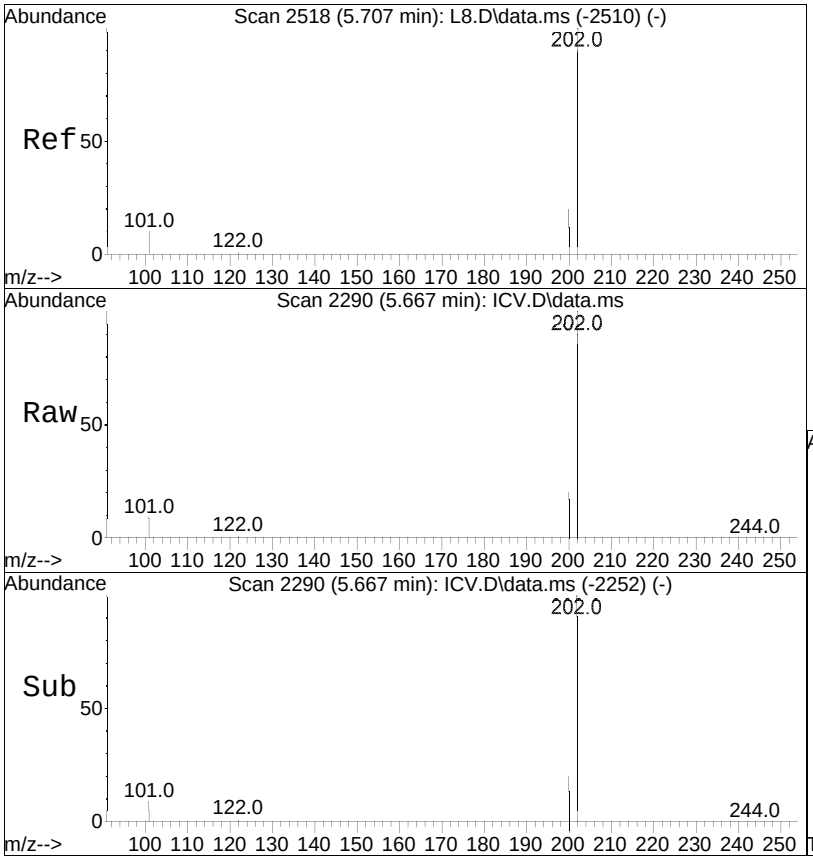


#28
Fluoranthene
Concen: 1022.92 ng/ml
RT: 5.529 min Scan# 2224
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:202 Resp: 725789

Ion	Ratio	Lower	Upper
202	100		
101	9.0	8.2	12.2

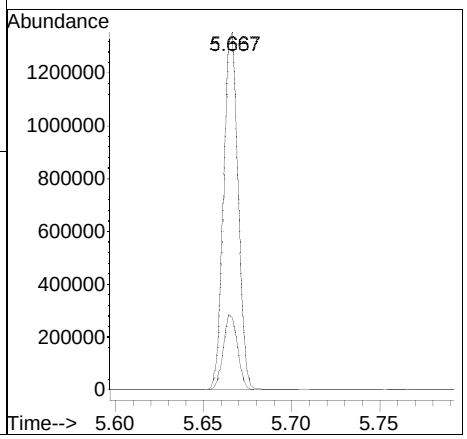


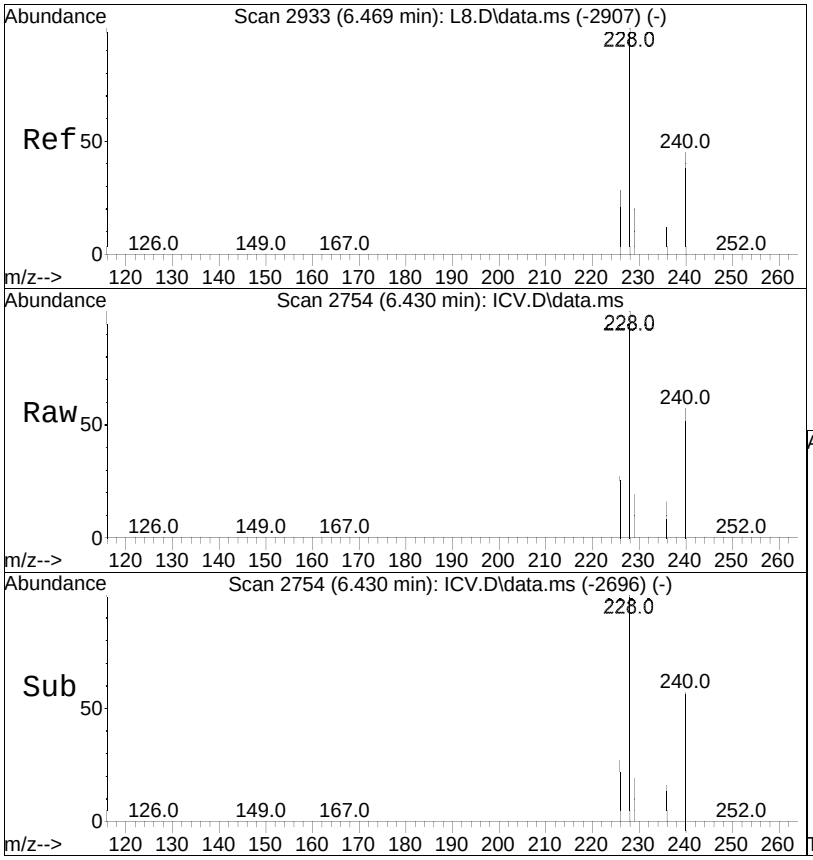


#29
Pyrene
Concen: 1043.13 ng/ml
RT: 5.667 min Scan# 2290
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:202 Resp: 763953

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3

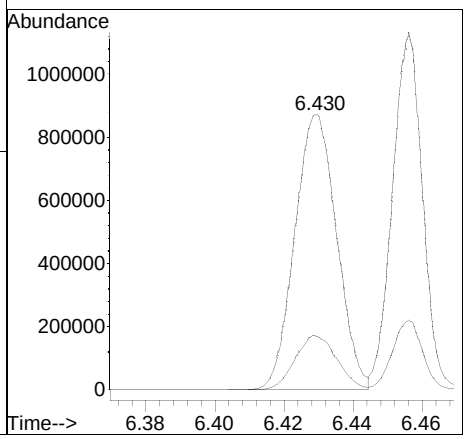


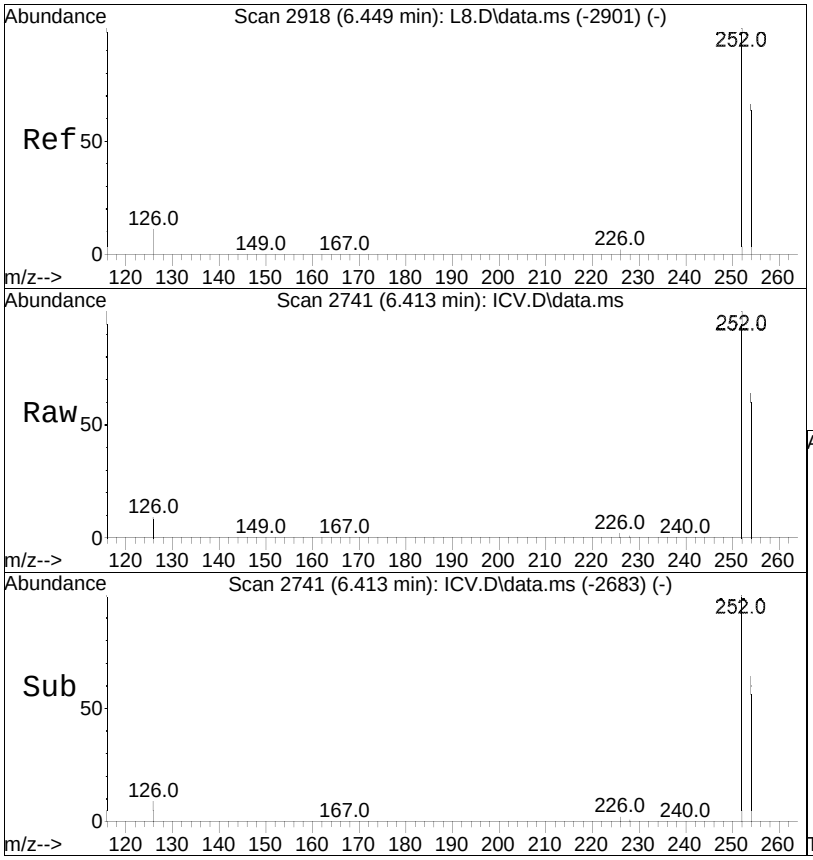


#32
Benzo[a]anthracene
Concen: 1090.32 ng/ml
RT: 6.430 min Scan# 2754
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:228 Resp: 734331

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.9	23.9

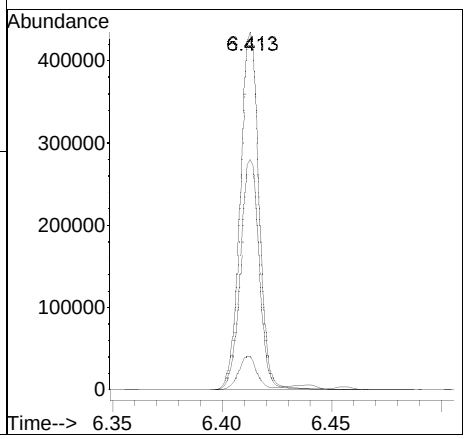


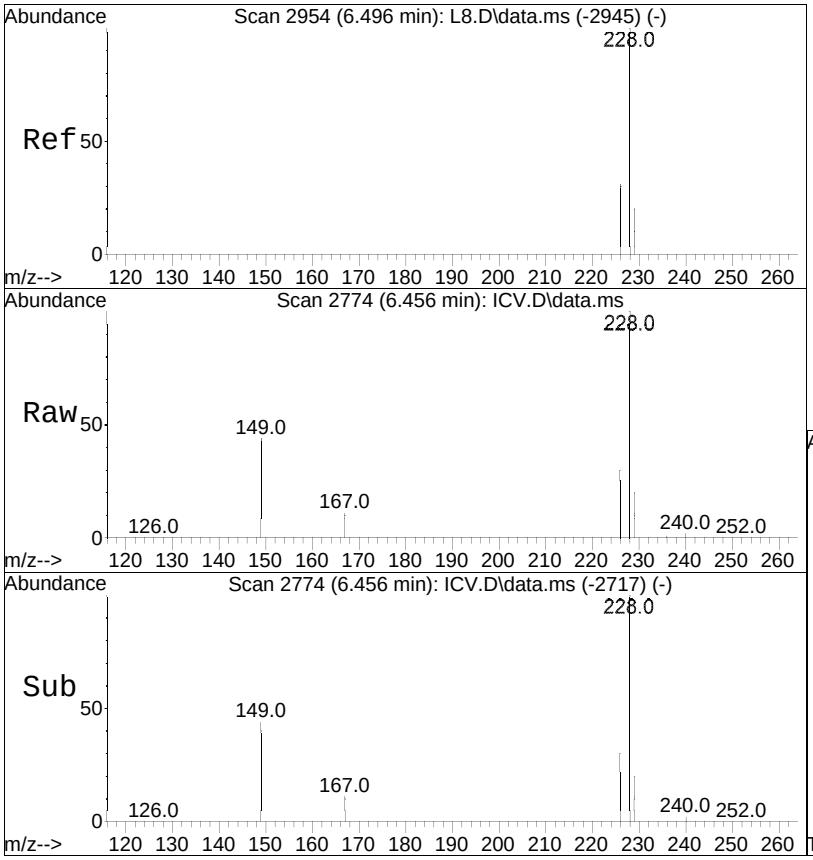


#33
3,3'-Dichlorobenzidine
Concen: 1066.31 ng/ml
RT: 6.413 min Scan# 2741
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 255382

Ion	Ratio	Lower	Upper
252	100		
126	9.4	8.6	13.0
254	64.6	51.8	77.8

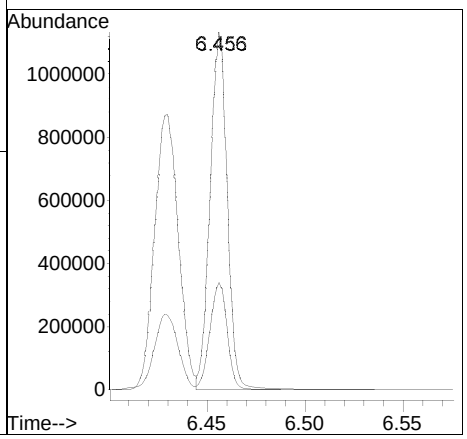


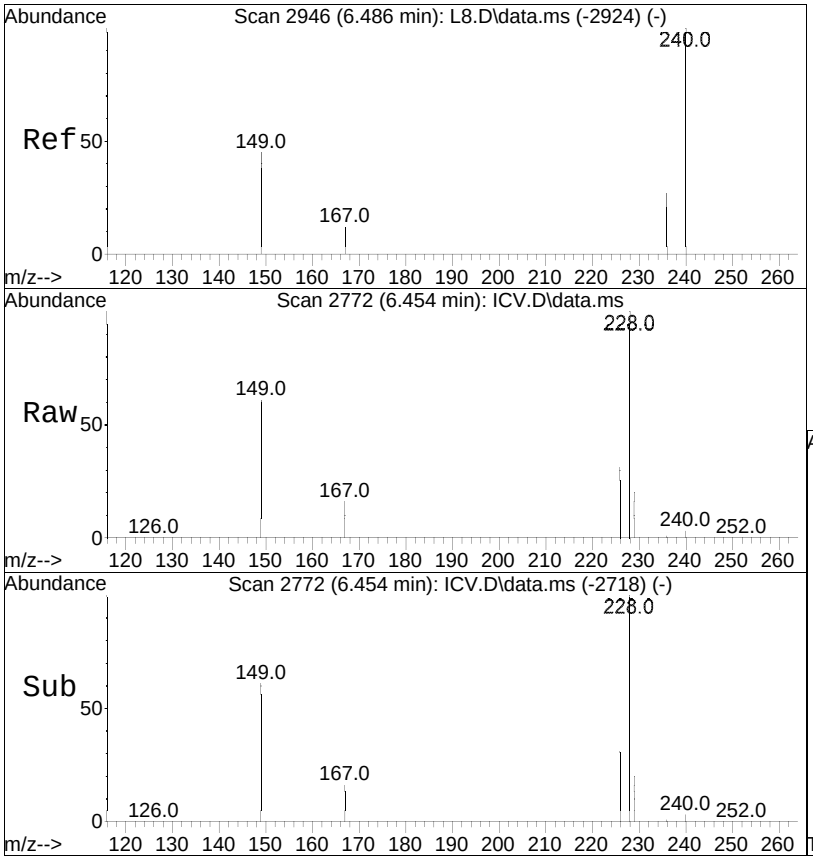


#34
Chrysene
Concen: 1049.40 ng/ml
RT: 6.456 min Scan# 2774
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:228 Resp: 687425

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.4	36.6

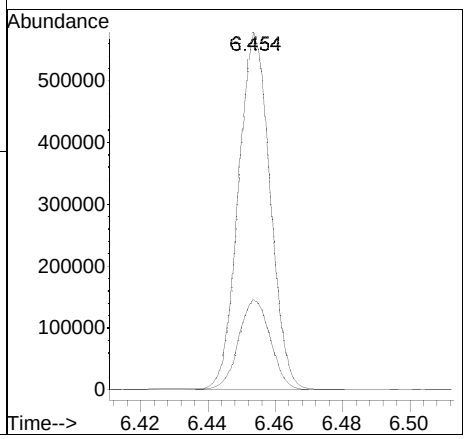


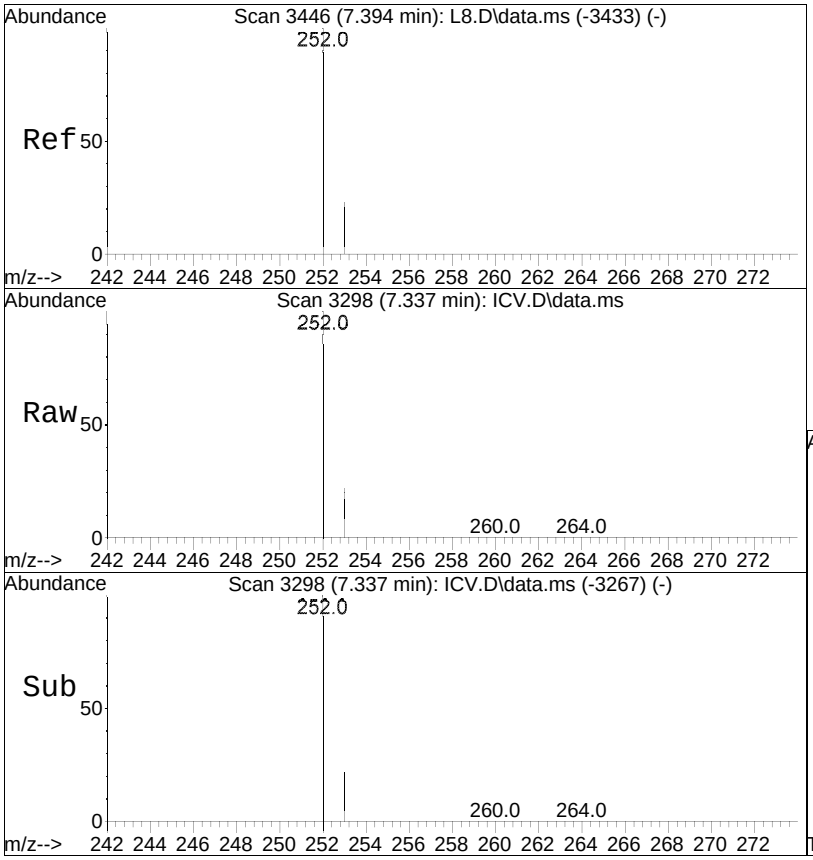


#35
Bis(2-ethylhexyl)phthalate
Concen: 1102.02 ng/ml
RT: 6.454 min Scan# 2772
Delta R.T. -0.009 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:149 Resp: 374501

Ion	Ratio	Lower	Upper
149	100		
167	25.6	20.7	31.1

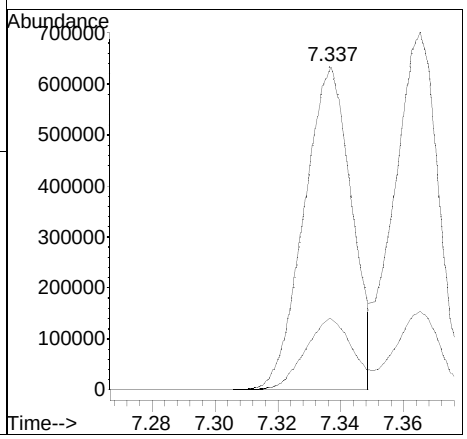


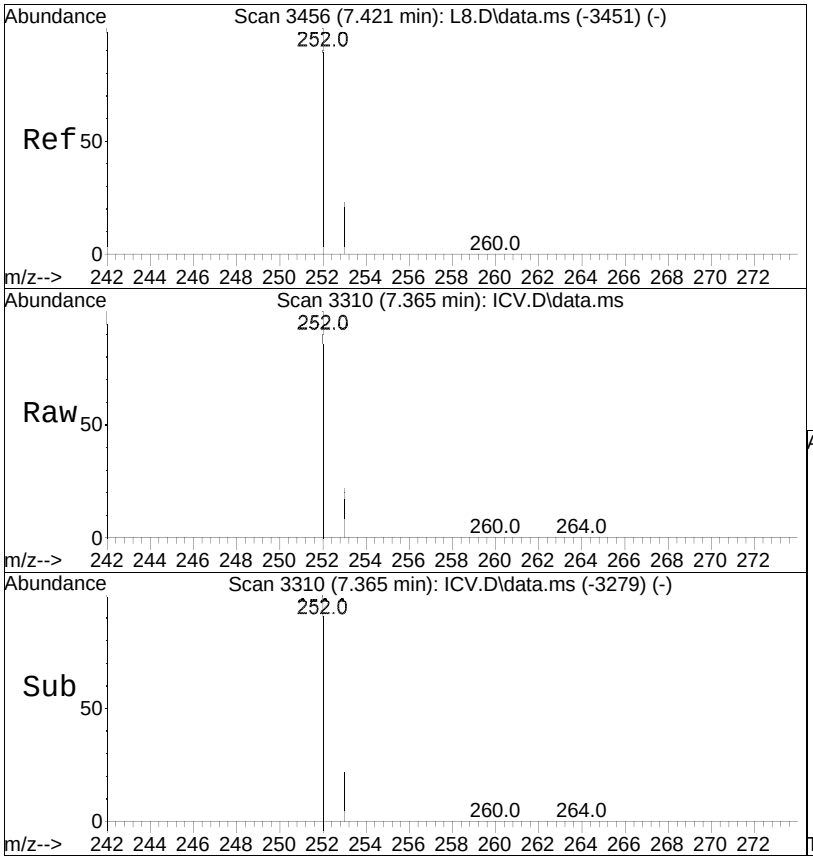


#37
Benzo[b]fluoranthene
Concen: 1060.06 ng/ml
RT: 7.337 min Scan# 3298
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 664339

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1

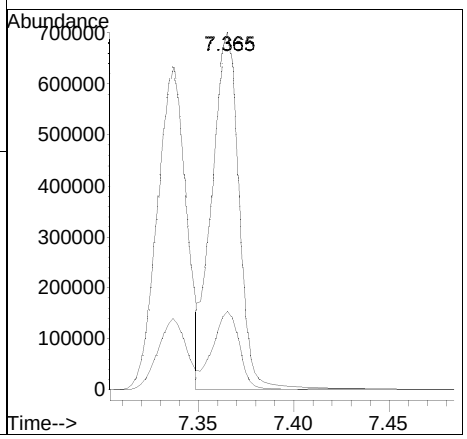


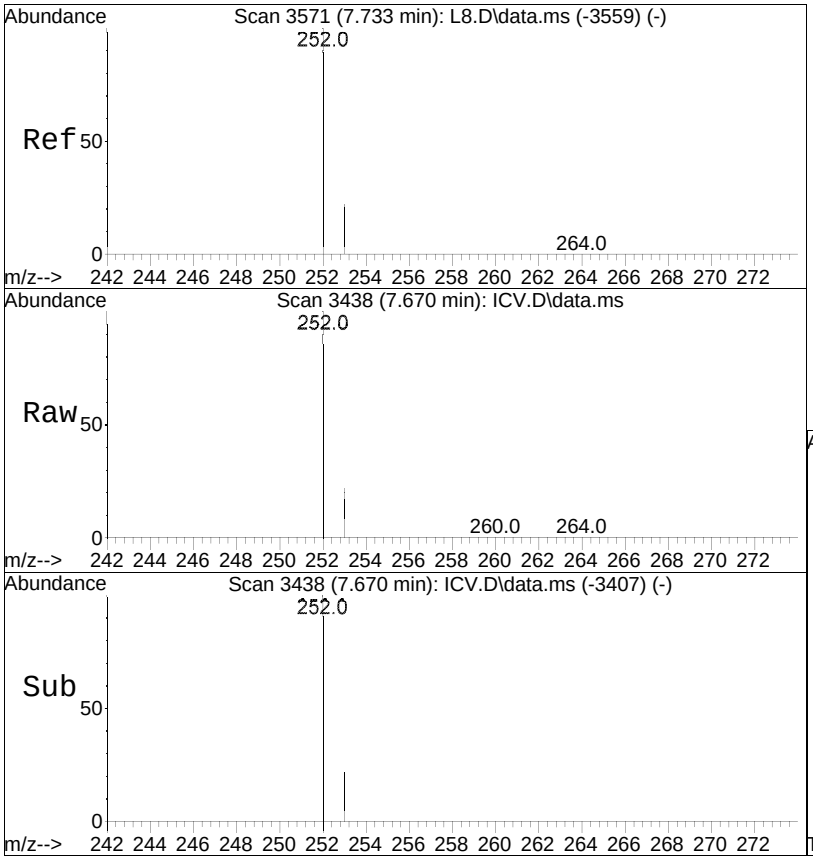


#38
Benzo[k]fluoranthene
Concen: 1120.26 ng/ml
RT: 7.365 min Scan# 3310
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 692334

Ion	Ratio	Lower	Upper
252	100		
253	21.2	18.2	27.2

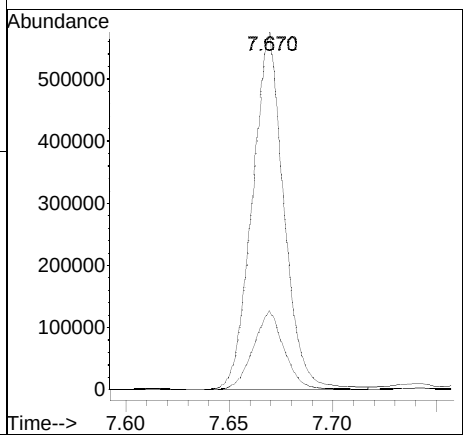


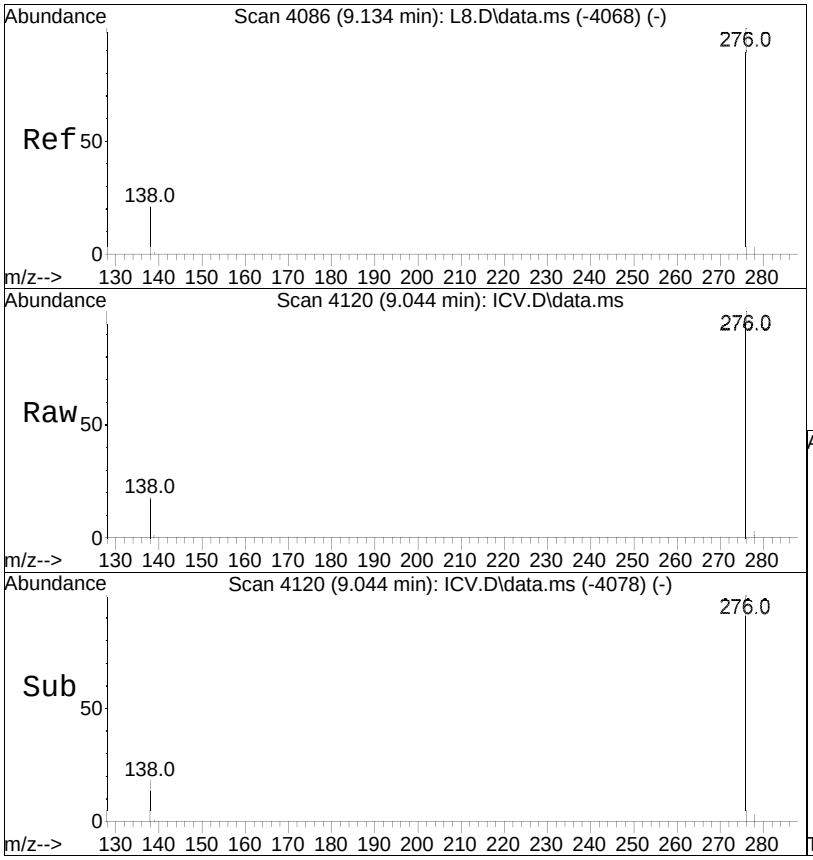


#39
Benzo[a]pyrene
Concen: 1129.74 ng/ml
RT: 7.670 min Scan# 3438
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 600762

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9

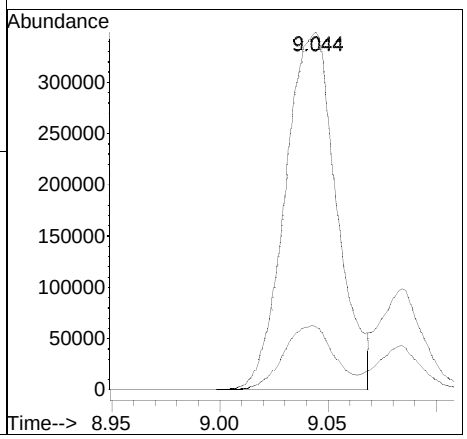


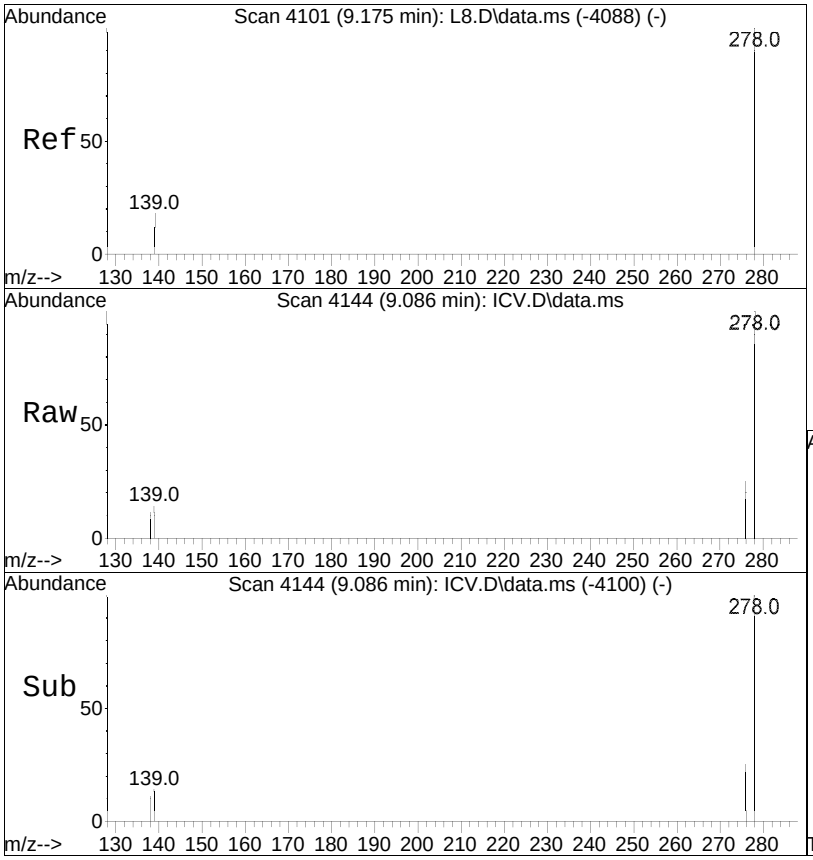


#40
Indeno[1,2,3-cd]pyrene
Concen: 1108.58 ng/ml
RT: 9.044 min Scan# 4120
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:276 Resp: 570718

Ion	Ratio	Lower	Upper
276	100		
138	17.8	16.9	25.3

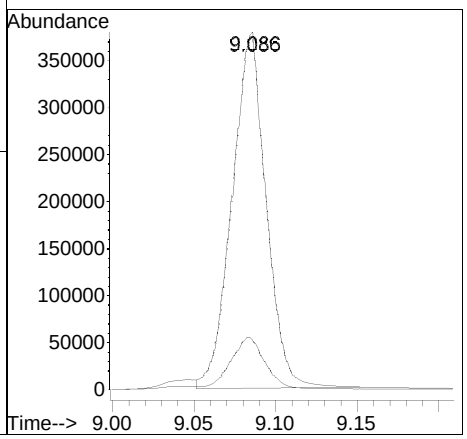


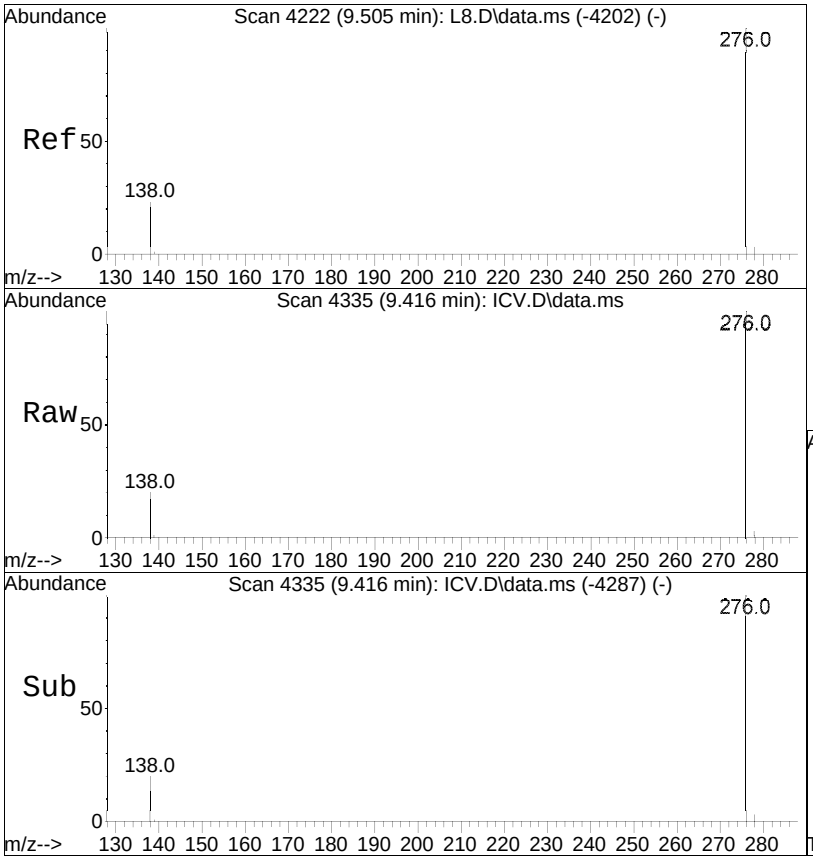


#41
Dibenzo[a,h]anthracene
Concen: 1143.97 ng/ml
RT: 9.086 min Scan# 4144
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:278 Resp: 546347

Ion	Ratio	Lower	Upper
278	100		
139	14.8	14.6	22.0

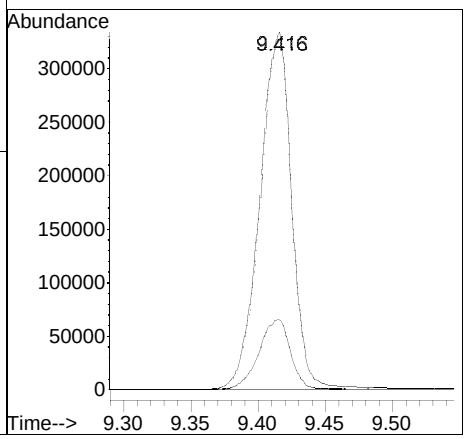




#42
Benzo[g,h,i]perylene
Concen: 1106.01 ng/ml
RT: 9.416 min Scan# 4335
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:276 Resp: 541938

Ion	Ratio	Lower	Upper
276	100		
138	19.9	18.6	28.0



Manual Integration Report

Data Path	: I:\8270SIM\sv119\241229RVTQ	Method	: SIM-RVT_241229_sv119.M
Data File	: ICV.D	Operator	: sv119:jjw
Date Inj'd	: 12/29/2024 4:26 pm	Instrument	: SV119
Sample	: CQICV,32,, #10884 1000 ng/	Quant Date	: 12/31/2024 4:06 pm

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

Evaluate Relative Error Report SV119

Method Path : I:\8270SIM\sv119\241229RVTical\
Method File : SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 30 14:10:06 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	928.938	-7.1	40.00	51.908	29.8
25 T	Pentachlorophenol	Q	ng/ml	1000.0	975.015	-2.5	10.00	12.918	29.2
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	993.722	-0.6	1.00	0.997	-0.3
33 T	3,3'-Dichlorobenzidine	L	ng/ml	1000.0	900.458	-10.0	40.00	53.130	32.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
23 T	4,6-Dinitro-o-cresol	Linear	0.997522	0.000000	0.134994	-0.000924672
25 T	Pentachlorophenol	Quadratic	0.996099	0.027892	0.111421	0.00022454
32 T	Benzo[a]anthracene	Linear	0.999536	0.000000	1.40593	0.00274239
33 T	3,3'-Dichlorobenzidine	Linear	0.996198	0.000000	0.516632	-0.00349123

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/05/25 06:29		
Lab File ID	: CCV0305	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2036764-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	117	0
2-Fluorophenol	1.072	1.125	.05	-4.9	20	122	0
Phenol-d6	1.338	1.421	.05	-6.2	20	122	0
Bis(2-chloroethyl)ether	1.235	1.232	.05	0.2	20	124	0
n-nitrosodi-n-propylamine	0.827	0.874	.05	-5.7	20	122	0
Hexachloroethane	0.518	0.505	.05	2.5	20	119	0
Nitrobenzene-d5	1.297	1.283	.05	1.1	20	117	0
Naphthalene-d8	1	1	.05	0	20	122	0
Naphthalene	1.116	1.012	.05	9.3	20	118	0
Hexachlorobutadiene	0.196	0.162	.05	17.3	20	106	0
2-Methylnaphthalene	0.78	0.655	.05	16	20	107	0
1-Methylnaphthalene	0.718	0.671	.05	6.5	20	119	0
2-Fluorobiphenyl	0.975	0.834	.05	14.5	20	111	0
2-Chloronaphthalene	0.805	0.715	.05	11.2	20	113	0
2,6-Dinitrotoluene	0.198	0.19	.05	4	20	114	0
Acenaphthylene	1.247	1.215	.05	2.6	20	123	0
Acenaphthene-d10	1	1	.05	0	20	115	0
Acenaphthene	1.334	1.264	.05	5.2	20	113	0
2,4-Dinitrotoluene	0.424	0.451	.05	-6.4	20	116	0
Fluorene	1.533	1.509	.05	1.6	20	114	0
2,4,6-Tribromophenol	0.175	0.187	.05	-6.9	20	115	0
Phenanthrene-d10	1	1	.05	0	20	112	0
4,6-Dinitro-o-cresol	1000	899.456	.05	10.1	20	109	0
Hexachlorobenzene	0.236	0.209	.05	11.4	20	107	0
Pentachlorophenol	1000	888.672	.05	11.1	20	102	0
Phenanthrene	1.17	1.077	.05	7.9	20	109	0
Anthracene	1.173	1.134	.05	3.3	20	113	0
Fluoranthene	1.463	1.329	.05	9.2	20	107	0
Pyrene	1.51	1.353	.05	10.4	20	106	0
4-Terphenyl-d14	0.992	0.836	.05	15.7	20	98	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	959.982	.05	4	20	97	0
3,3'-Dichlorobenzidine	1000	1165.889	.05	-16.6	20	130	0
Chrysene	1.377	1.252	.05	9.1	20	95	0
Bis(2-ethylhexyl)phthalate	0.714	0.903	.05	-26.5*	20	122	0
Perylene-d12	1	1	.05	0	20	96	0
Benzo[b]fluoranthene	1.326	1.315	.05	0.8	20	95	0
Benzo[k]fluoranthene	1.307	1.268	.05	3	20	94	0
Benzo[a]pyrene	1.125	1.207	.05	-7.3	20	101	0
Indeno[1,2,3-cd]pyrene	1.089	1.122	.05	-3	20	95	0
Dibenzo[a,h]anthracene	1.01	1.057	.05	-4.7	20	94	0
Benzo[g,h,i]perylene	1.036	1.051	.05	-1.4	20	95	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : ccv0305.D
Acq On : 05 Mar 2025 06:29 am
Operator : sv119:kmh
Sample : wg2036764-3,32,,ICV 11275 (0222e)
Misc : wg2036764,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:43:22 2025
Quant Method : I:\8270SIM\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:18 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
2	T	N-Nitrosodimethylamine	0.000	0.734	0.0	0#	0.00
3	s	2-Fluorophenol	1.072	1.125	-4.9	122	0.00
4	s	Phenol-d6	1.338	1.421	-6.2	122	0.00
5	T	Bis(2-chloroethyl)ether	1.235	1.232	0.2	124	0.00
6	T	n-nitrosodi-n-propylamine	0.827	0.874	-5.7	122	0.00
7	t	Hexachloroethane	0.518	0.505	2.5	119	0.00
8	s	Nitrobenzene-d5	1.297	1.283	1.1	117	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	122	0.00
10	t	Naphthalene	1.116	1.012	9.3	118	0.00
11	t	Hexachlorobutadiene	0.196	0.162	17.3	106	0.00
12	t	2-Methylnaphthalene	0.780	0.655	16.0	107	0.00
13	t	1-Methylnaphthalene	0.718	0.671	6.5	119	0.00
14	s	2-Fluorobiphenyl	0.975	0.834	14.5	111	0.00
15	t	2-Chloronaphthalene	0.805	0.715	11.2	113	0.00
16	t	2,6-Dinitrotoluene	0.198	0.190	4.0	114	0.00
17	t	Acenaphthylene	1.247	1.215	2.6	123	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	115	0.00
19	t	Acenaphthene	1.334	1.264	5.2	113	0.00
20	t	2,4-Dinitrotoluene	0.424	0.451	-6.4	116	0.00
21	t	Fluorene	1.533	1.509	1.6	114	0.00
22	s	2,4,6-Tribromophenol	0.175	0.187	-6.9	115	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	899.456	10.1	109	0.00
25	t	Hexachlorobenzene	0.236	0.209	11.4	107	0.00
26	t	Pentachlorophenol	*1000.000	888.672	11.1	102	0.00
27	t	Phenanthrene	1.170	1.077	7.9	109	0.00
28	t	Anthracene	1.173	1.134	3.3	113	0.00
29	t	Fluoranthene	1.463	1.329	9.2	107	0.00
30	t	Pyrene	1.510	1.353	10.4	106	0.00
31	T	Benzidine	0.000	0.878	0.0	0#	0.00
32	s	4-Terphenyl-d14	0.992	0.836	15.7	98	0.00
33	i	Chrysene-d12	1.000	1.000	0.0	100	0.00
34	t	Benzo[a]anthracene	*1000.000	959.982	4.0	97	0.00
35	t	3,3'-Dichlorobenzidine	*1000.000	1165.889	-16.6	130	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : ccv0305.D
Acq On : 05 Mar 2025 06:29 am
Operator : sv119:kmh
Sample : wg2036764-3,32,,ICV 11275 (0222e)
Misc : wg2036764,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:43:22 2025
Quant Method : I:\8270SIM\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:18 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	t	Chrysene	1.377	1.252	9.1	95	0.00
37	T	Bis(2-ethylhexyl)phthalate	0.714	0.903	-26.5#	122	0.00
38	i	Perylene-d12	1.000	1.000	0.0	96	0.00
39	t	Benzo[b]fluoranthene	1.326	1.315	0.8	95	0.00
40	t	Benzo[k]fluoranthene	1.307	1.268	3.0	94	0.00
41	t	Benzo[a]pyrene	1.125	1.207	-7.3	101	0.00
42	t	Indeno[1,2,3-cd]pyrene	1.089	1.122	-3.0	95	0.00
43	t	Dibenzo[a,h]anthracene	1.010	1.057	-4.7	94	0.00
44	t	Benzo[g,h,i]perylene	1.036	1.051	-1.4	95	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : ccv0305.D
Acq On : 05 Mar 2025 06:29 am
Operator : sv119:kmh
Sample : wg2036764-3,32,,ICV 11275 (0222e)
Misc : wg2036764,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:43:22 2025
Quant Method : I:\8270SIM\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:18 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	358448	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.858	136	1402776	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.827	164	821052	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.661	188	1709135	4000.000	ng/ml	0.00
33) Chrysene-d12	6.215	240	1551369	4000.000	ng/ml	0.00
38) Perylene-d12	7.391	264	1505949	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.623	112	100841	1049.969	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 52.50%			
4) Phenol-d6	2.019	99	127382	1062.652	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.13%			
8) Nitrobenzene-d5	2.480	82	114932	988.733	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.87%			
14) 2-Fluorobiphenyl	3.448	172	292533	855.210	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.52%			
22) 2,4,6-Tribromophenol	4.271	330	38428	1072.367	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.62%			
32) 4-Terphenyl-d14	5.574	244	357116	842.262	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.23%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.194	74	65769	No Calib	#	
5) Bis(2-chloroethyl)ether	2.065	93	110370	997.550	ng/ml	91
6) n-nitrosodi-n-propylamine	2.399	70	78289	1055.808	ng/ml	99
7) Hexachloroethane	2.455	117	45220	973.304	ng/ml	96
10) Naphthalene	2.867	128	355001	907.389	ng/ml	100
11) Hexachlorobutadiene	2.938	225	56929	826.852	ng/ml	100
12) 2-Methylnaphthalene	3.245	142	229867	840.775	ng/ml	98
13) 1-Methylnaphthalene	3.300	142	235155	934.128	ng/ml	98
15) 2-Chloronaphthalene	3.515	162	250648	887.674	ng/ml	93
16) 2,6-Dinitrotoluene	3.712	165	66591	956.971	ng/ml	91
17) Acenaphthylene	3.745	152	426251	974.776	ng/ml	100
19) Acenaphthene	3.845	153	259519	947.723	ng/ml	93
20) 2,4-Dinitrotoluene	3.939	165	92620	1063.277	ng/ml#	71
21) Fluorene	4.133	166	309784	984.658	ng/ml	97
24) 4,6-Dinitro-o-cresol	4.170	198	50301	899.456	ng/ml	96
25) Hexachlorobenzene	4.450	284	89267	886.070	ng/ml	95
26) Pentachlorophenol	4.563	266	45045	888.672	ng/ml	100
27) Phenanthrene	4.673	178	460358	921.222	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : ccv0305.D
Acq On : 05 Mar 2025 06:29 am
Operator : sv119:kmh
Sample : wg2036764-3,32,,ICV 11275 (0222e)
Misc : wg2036764,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:43:22 2025
Quant Method : I:\8270SIM\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:18 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.701	178	484417	966.845	ng/ml	99
29) Fluoranthene	5.352	202	567988	908.480	ng/ml	98
30) Pyrene	5.483	202	578244	896.042	ng/ml	100
31) Benzidine	5.433	184	375019	No Calib	#	
34) Benzo[a]anthracene	6.206	228	527712	959.982	ng/ml	100
35) 3,3'-Dichlorobenzidine	6.192	252	228195	1165.889	ng/ml	99
36) Chrysene	6.229	228	485592	909.091	ng/ml	100
37) Bis(2-ethylhexyl)phtha...	6.226	149	350213	1263.839	ng/ml	98
39) Benzo[b]fluoranthene	7.024	252	495170	992.129	ng/ml	98
40) Benzo[k]fluoranthene	7.046	252	477252	969.672	ng/ml	98
41) Benzo[a]pyrene	7.325	252	454340	1072.826	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.579	276	422545M6	1030.603	ng/ml	
43) Dibenzo[a,h]anthracene	8.608	278	397852M6	1046.024	ng/ml	
44) Benzo[g,h,i]perylene	8.911	276	395593	1013.749	ng/ml	97

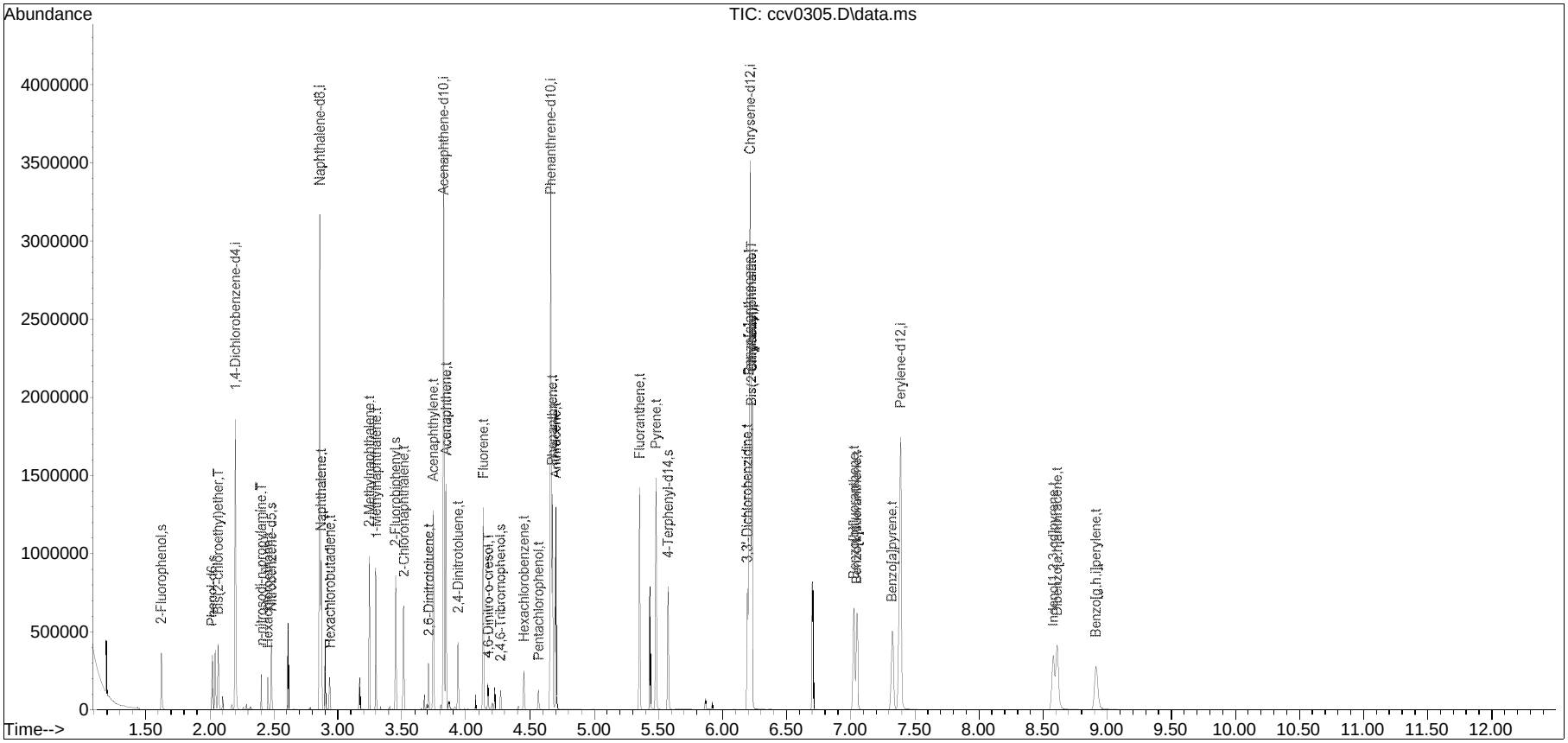
(#) = qualifier out of range (m) = manual integration (+) = signals summed

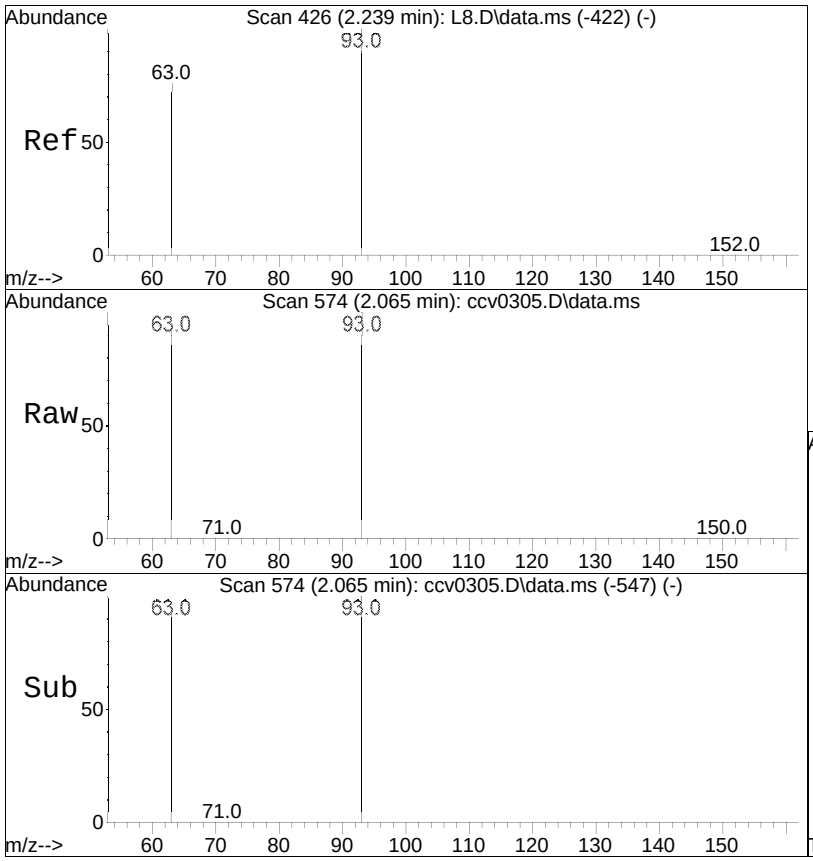
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : ccv0305.D
Acq On : 05 Mar 2025 06:29 am
Operator : sv119:kmh
Sample : wg2036764-3,32,,ICV 11275 (0222e)
Misc : wg2036764,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:43:22 2025
Quant Method : I:\8270SIM\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:18 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

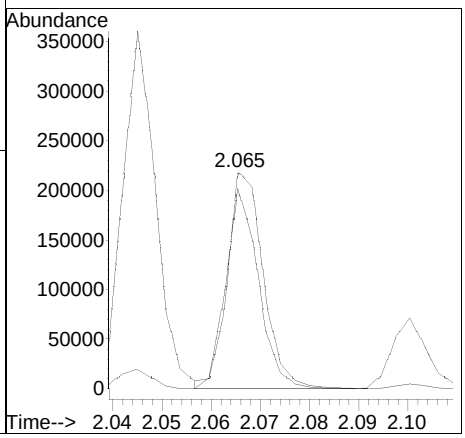


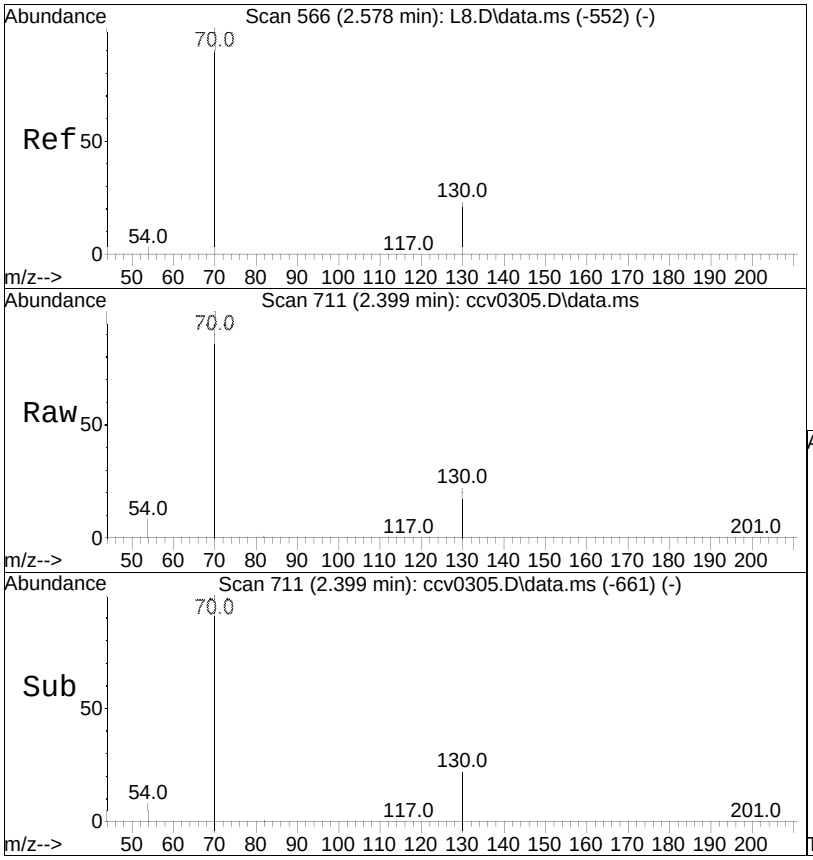


#5
Bis(2-chloroethyl)ether
Concen: 997.55 ng/ml
RT: 2.065 min Scan# 574
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion: 93 Resp: 110370

Ion	Ratio	Lower	Upper
93	100		
63	84.6	61.7	92.5

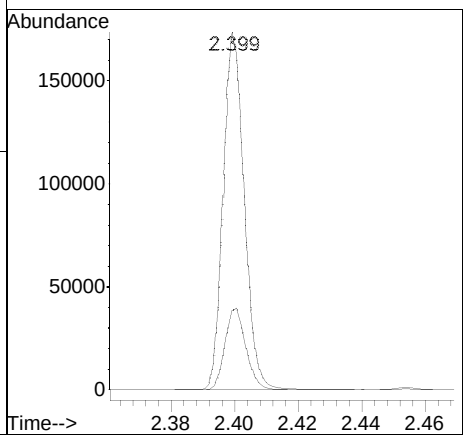


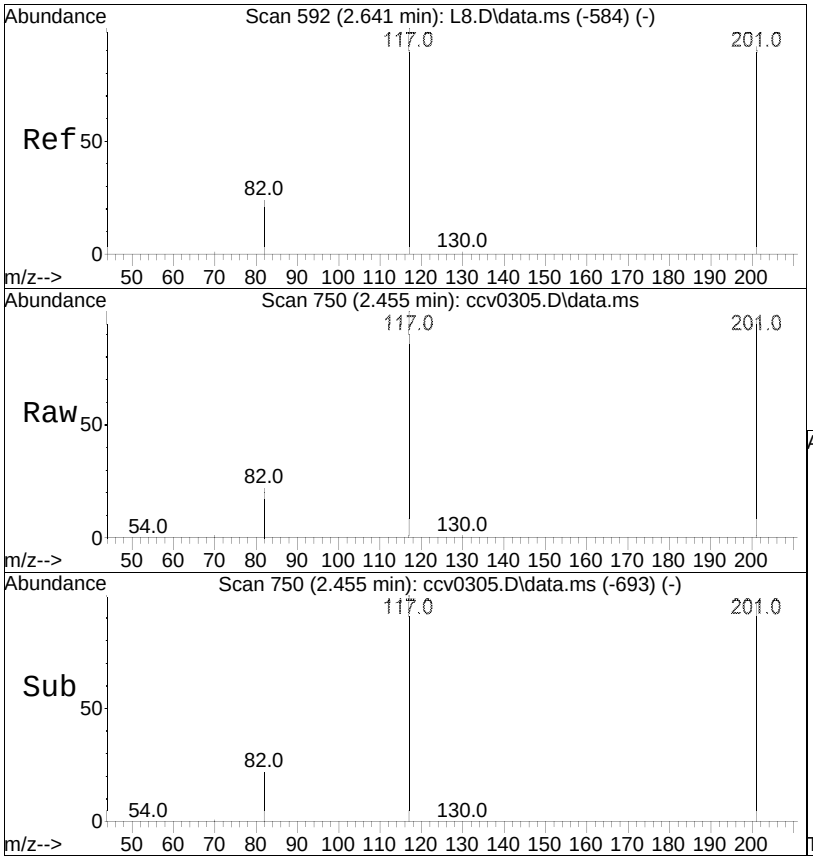


#6
n-nitrosodi-n-propylamine
Concen: 1055.81 ng/ml
RT: 2.399 min Scan# 711
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion: 70 Resp: 78289

Ion	Ratio	Lower	Upper
70	100		
130	22.9	18.1	27.1

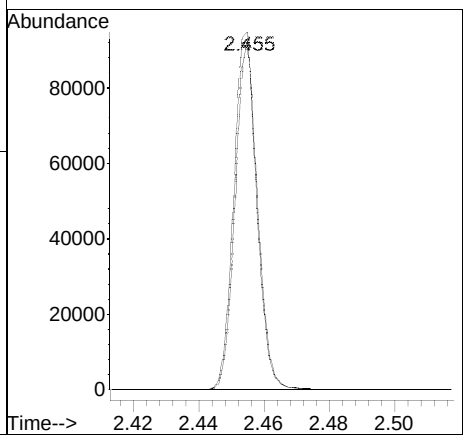


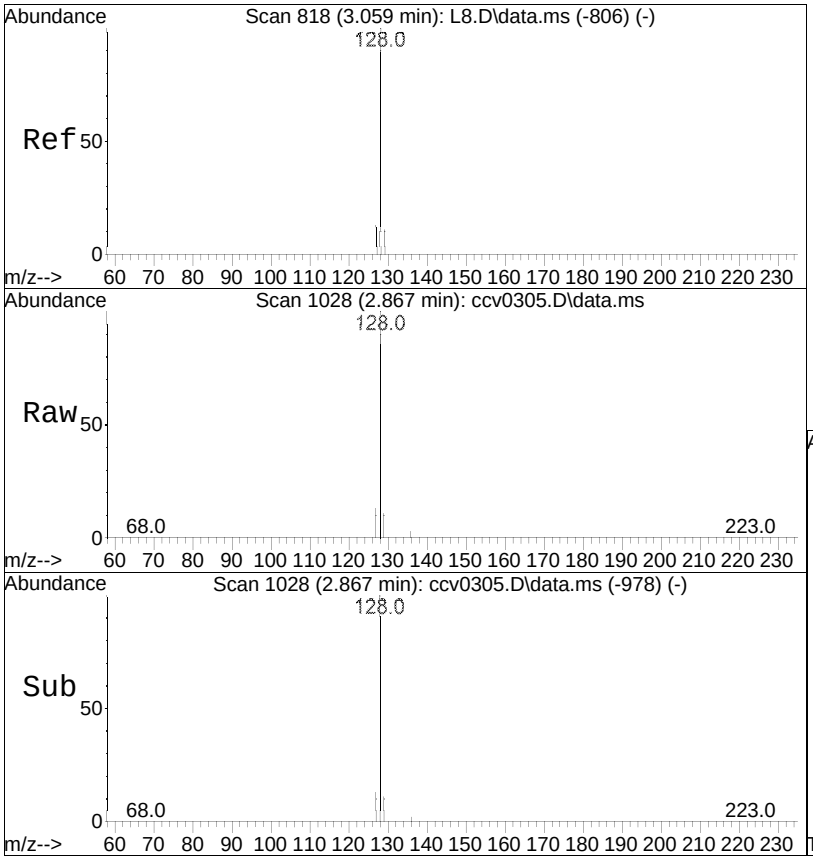


#7
Hexachloroethane
Concen: 973.30 ng/ml
RT: 2.455 min Scan# 750
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:117 Resp: 45220

Ion	Ratio	Lower	Upper
117	100		
201	95.5	79.3	118.9

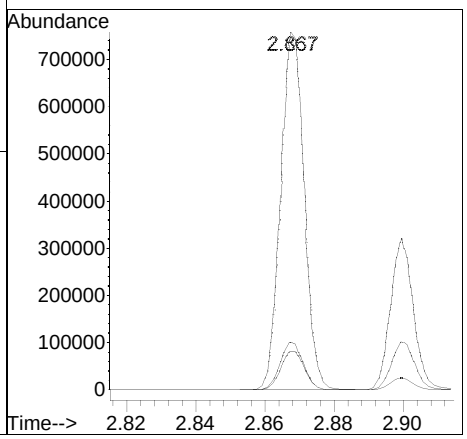


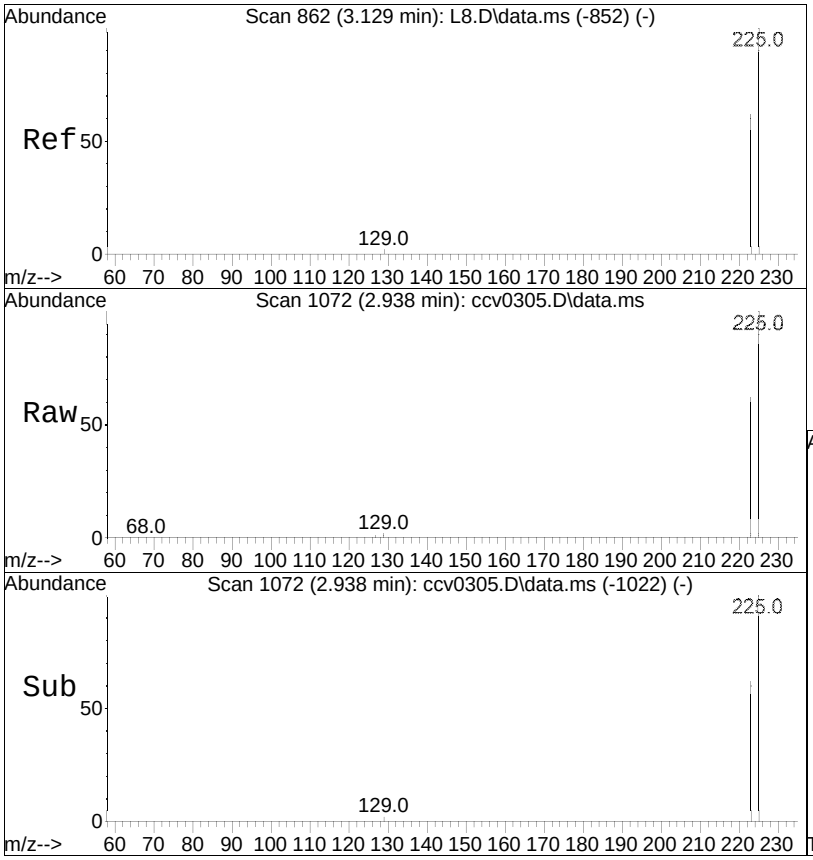


#10
Naphthalene
Concen: 907.39 ng/ml
RT: 2.867 min Scan# 1028
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:128 Resp: 355001

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.2	10.5	15.7

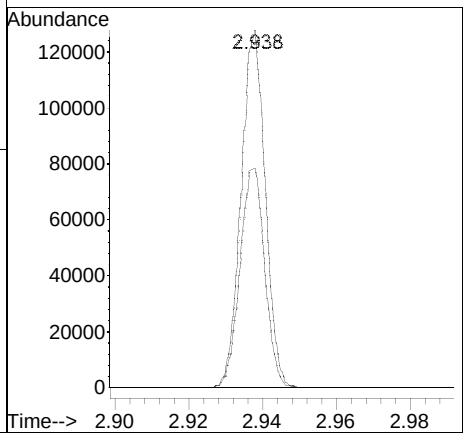


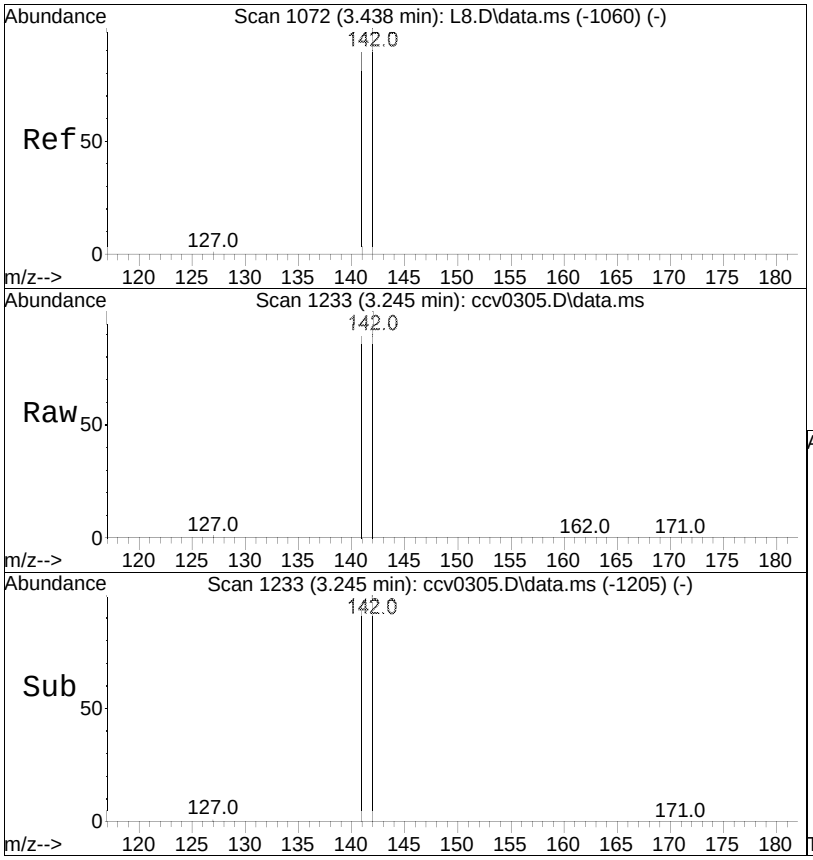


#11
Hexachlorobutadiene
Concen: 826.85 ng/ml
RT: 2.938 min Scan# 1072
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:225 Resp: 56929

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.4	75.6

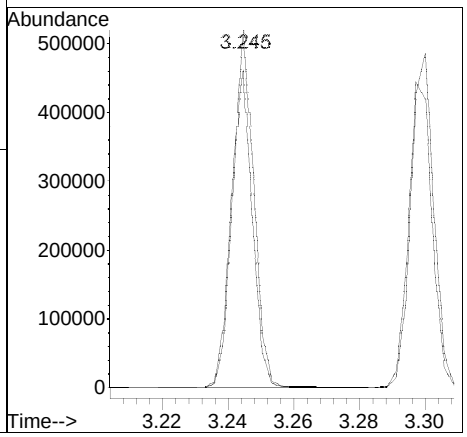


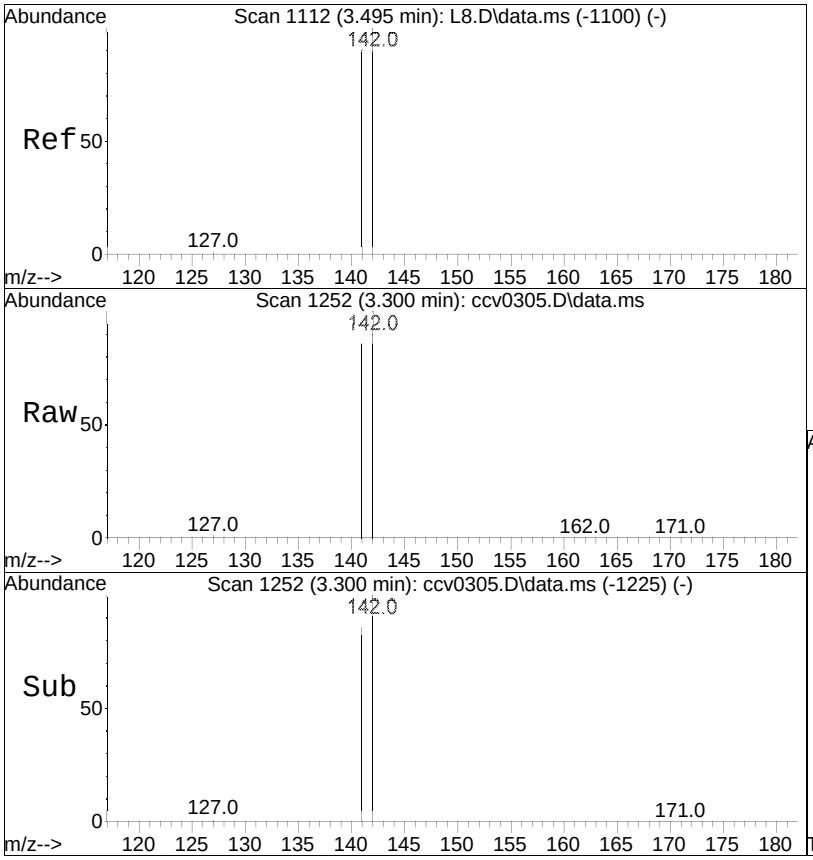


#12
2-Methylnaphthalene
Concen: 840.77 ng/ml
RT: 3.245 min Scan# 1233
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:142 Resp: 229867

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.3	106.9

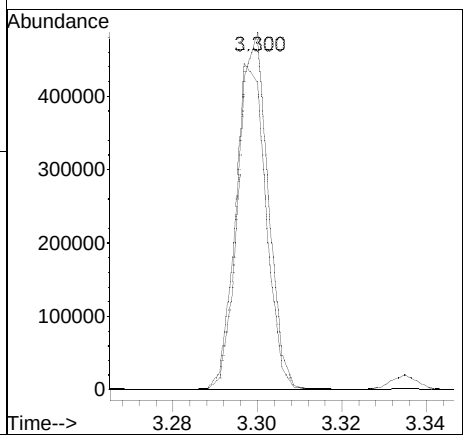


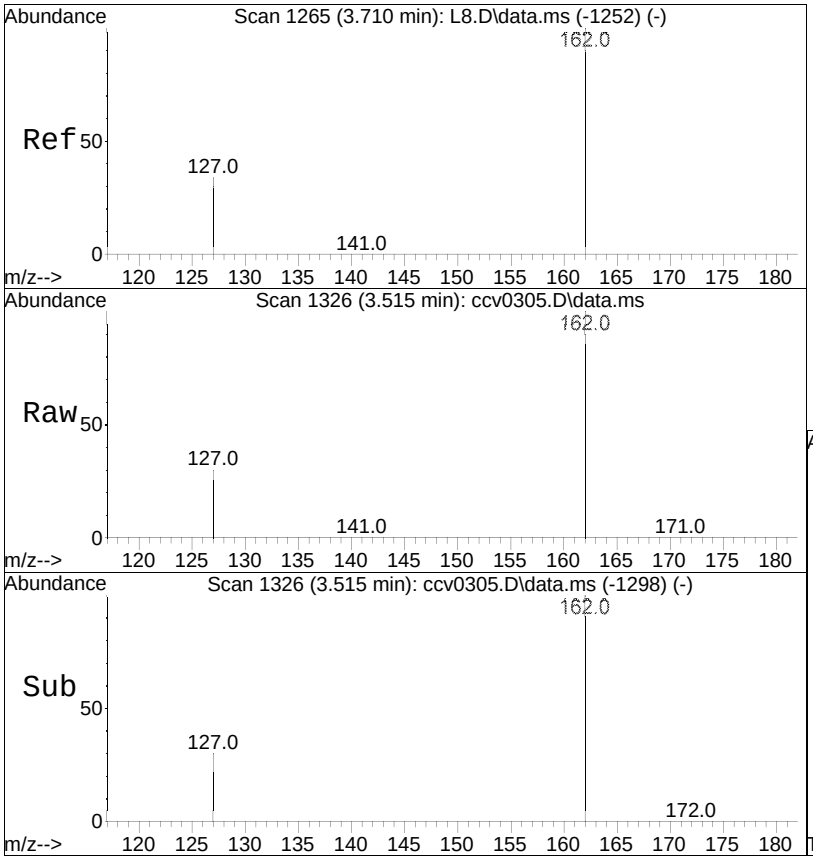


#13
1-Methylnaphthalene
Concen: 934.13 ng/ml
RT: 3.300 min Scan# 1252
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:142 Resp: 235155

Ion	Ratio	Lower	Upper
142	100		
141	94.2	73.8	110.6

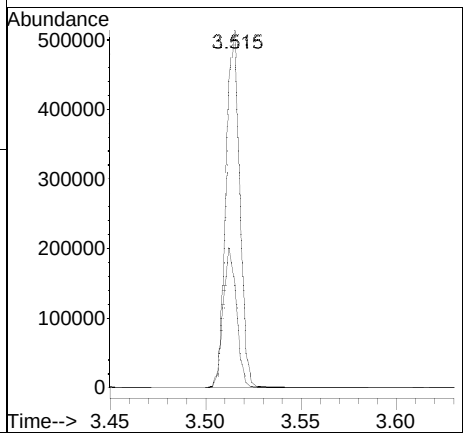


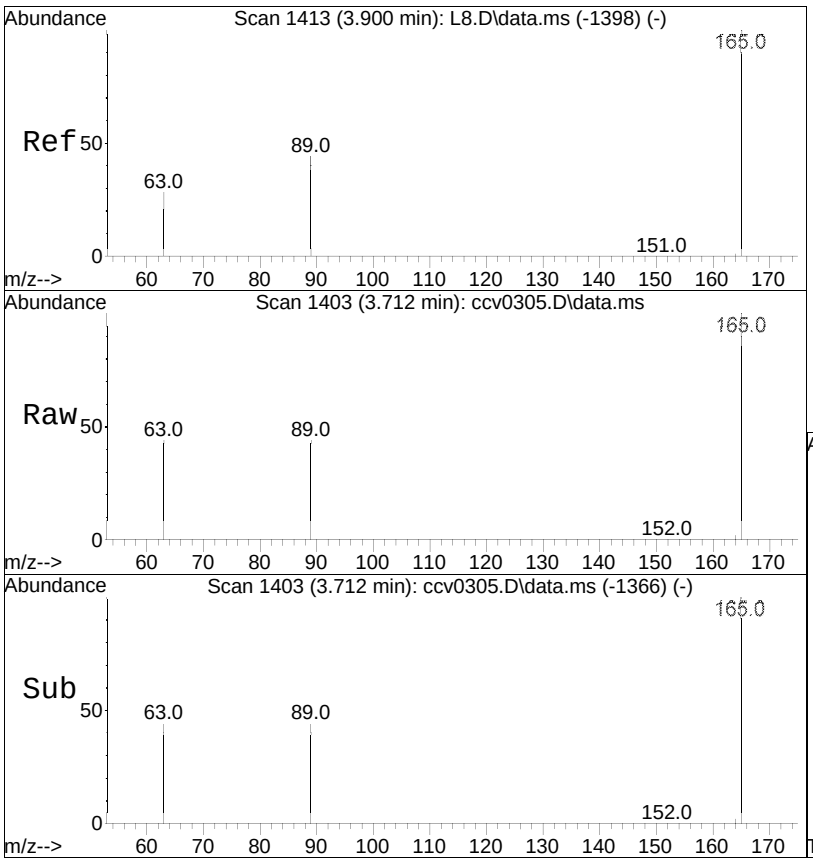


#15
2-Chloronaphthalene
Concen: 887.67 ng/ml
RT: 3.515 min Scan# 1326
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:162 Resp: 250648

Ion	Ratio	Lower	Upper
162	100		
127	38.3	27.4	41.0

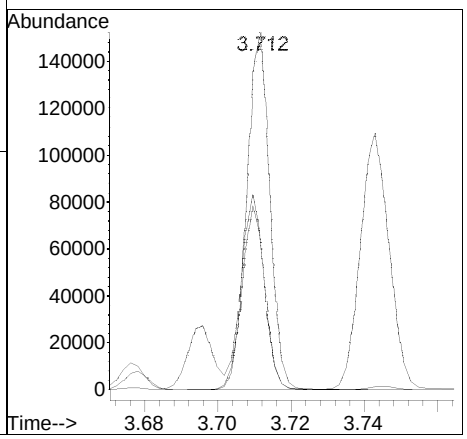


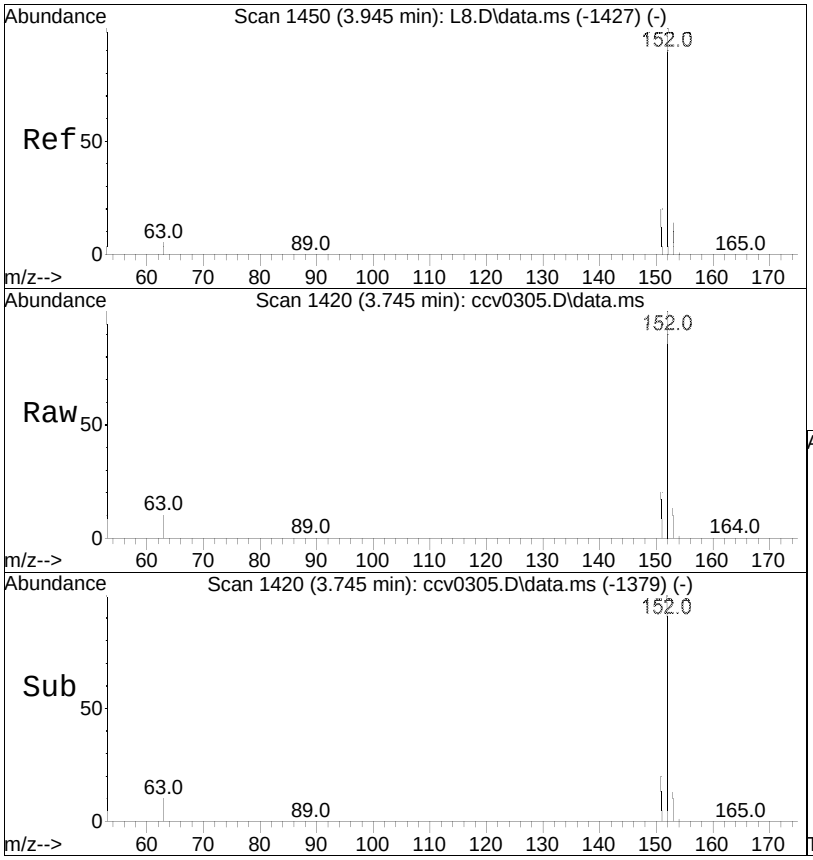


#16
2,6-Dinitrotoluene
Concen: 956.97 ng/ml
RT: 3.712 min Scan# 1403
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:165 Resp: 66591

Ion	Ratio	Lower	Upper
165	100		
89	51.4	37.8	56.8
63	54.2	36.9	55.3

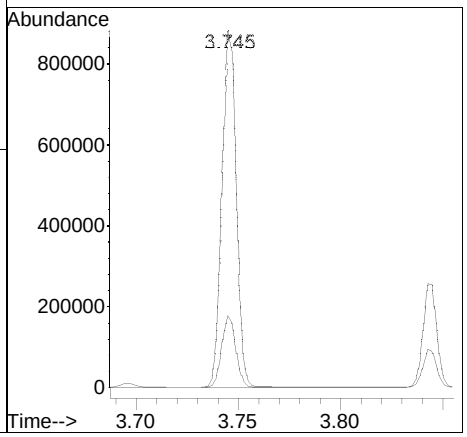


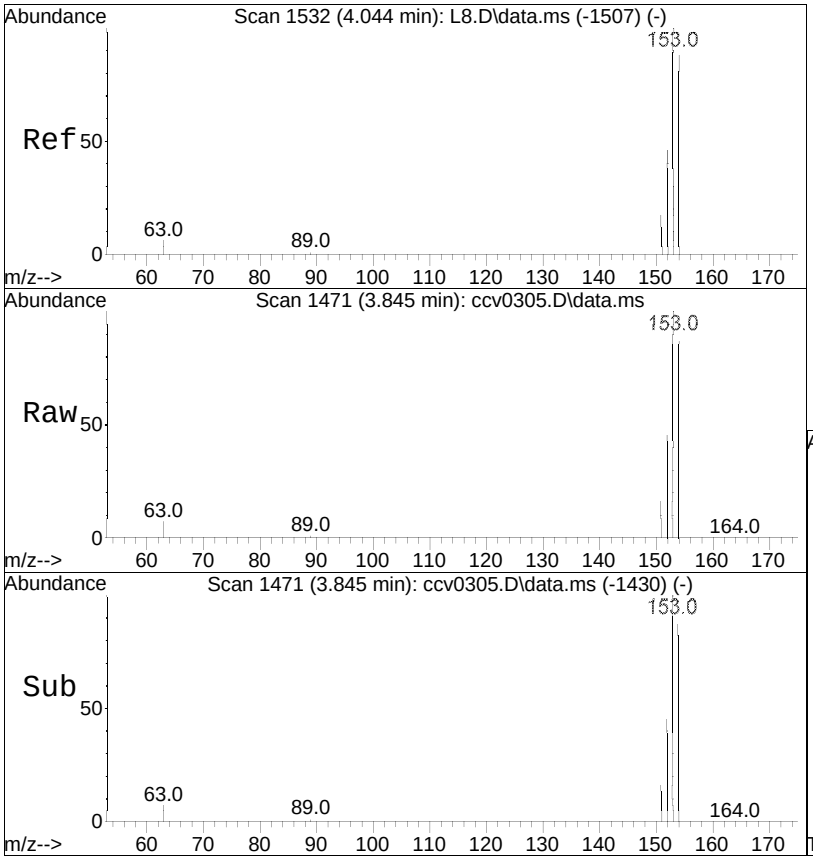


#17
Acenaphthylene
Concen: 974.78 ng/ml
RT: 3.745 min Scan# 1420
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:152 Resp: 426251

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9

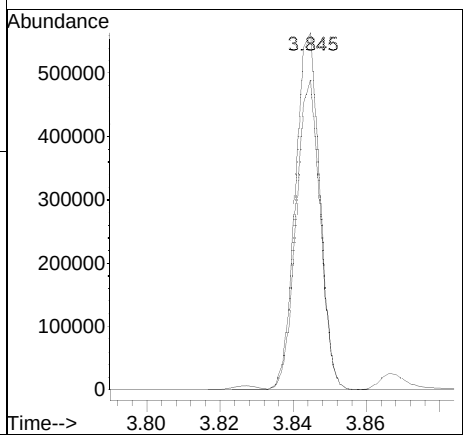


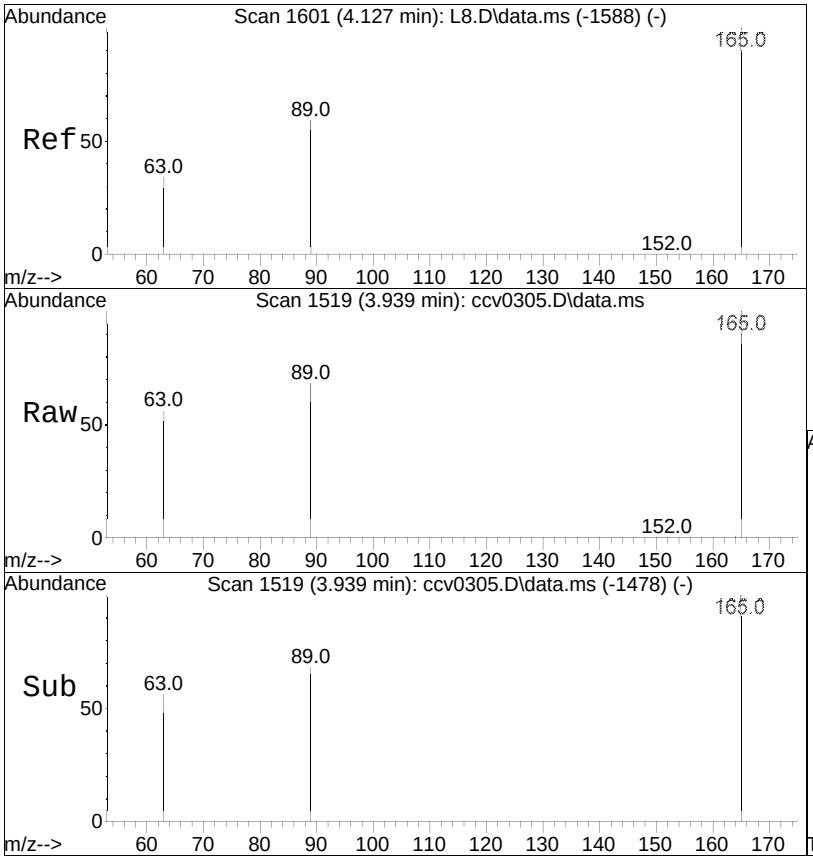


#19
Acenaphthene
Concen: 947.72 ng/ml
RT: 3.845 min Scan# 1471
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:153 Resp: 259519

Ion	Ratio	Lower	Upper
153	100		
154	85.2	73.1	109.7

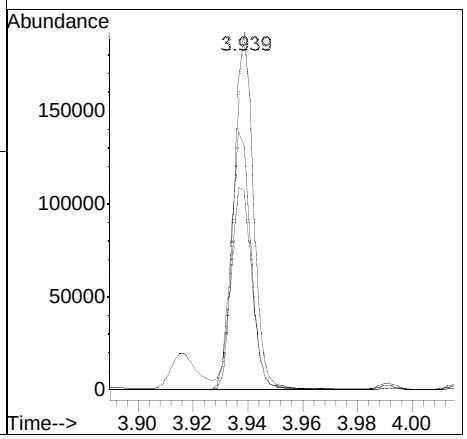


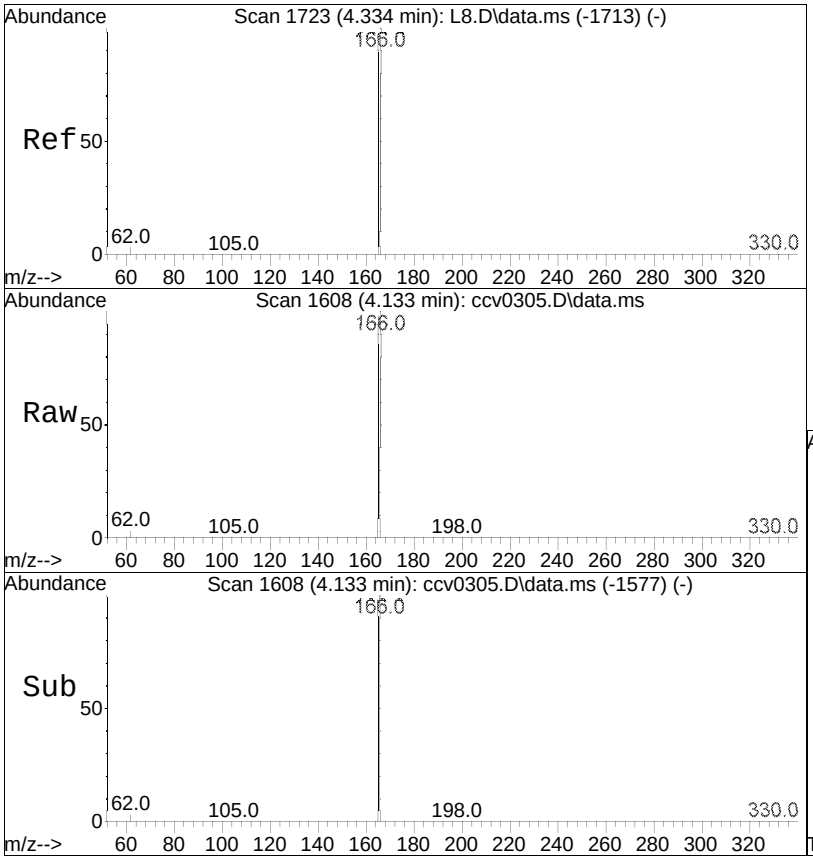


#20
2,4-Dinitrotoluene
Concen: 1063.28 ng/ml
RT: 3.939 min Scan# 1519
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:165 Resp: 92620

Ion	Ratio	Lower	Upper
165	100		
89	75.0	48.7	73.1#
63	62.5	28.6	42.8#

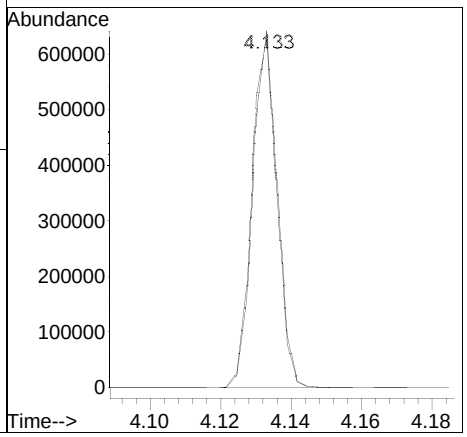


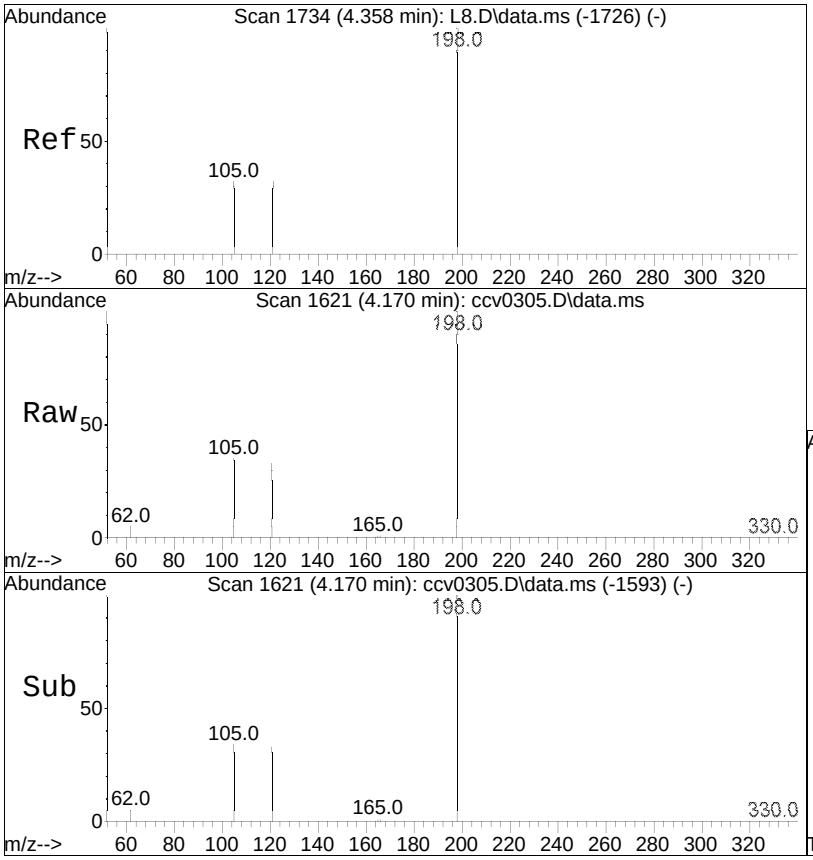


#21
Fluorene
Concen: 984.66 ng/ml
RT: 4.133 min Scan# 1608
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:166 Resp: 309784

Ion	Ratio	Lower	Upper
166	100		
165	100.3	77.8	116.8

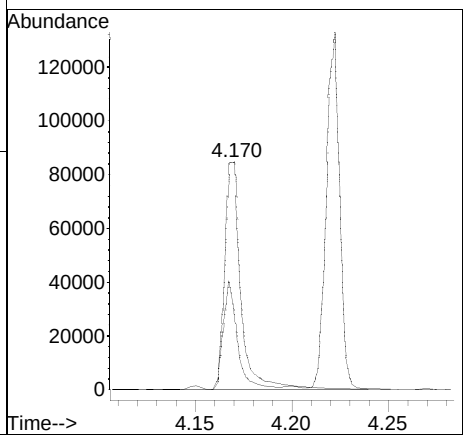


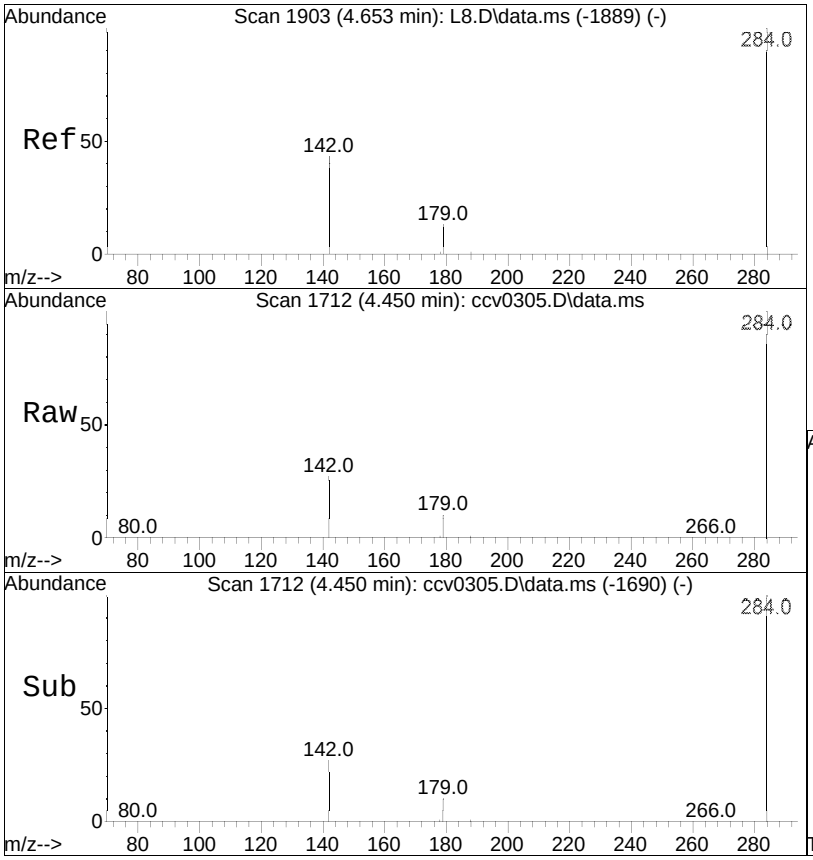


#24
4,6-Dinitro-o-cresol
Concen: 899.46 ng/ml
RT: 4.170 min Scan# 1621
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:198 Resp: 50301

Ion	Ratio	Lower	Upper
198	100		
105	40.7	30.6	45.8

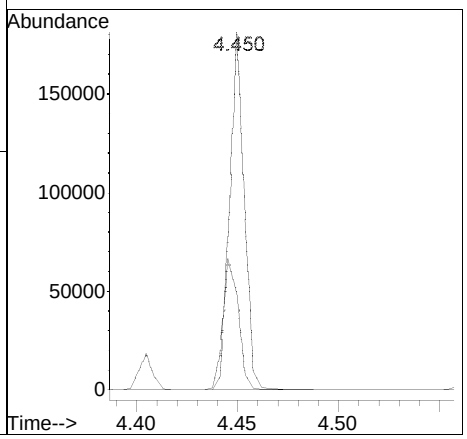


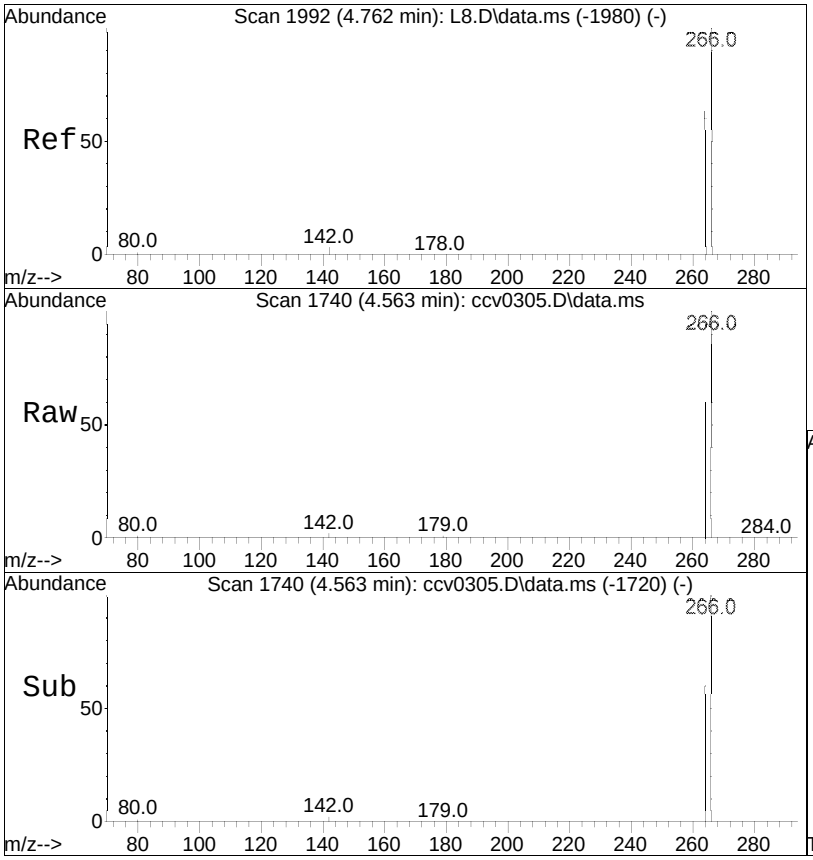


#25
Hexachlorobenzene
Concen: 886.07 ng/ml
RT: 4.450 min Scan# 1712
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:284 Resp: 89267

Ion	Ratio	Lower	Upper
284	100		
142	39.2	33.8	50.6

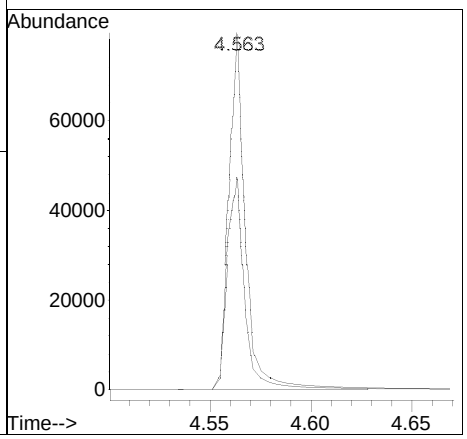


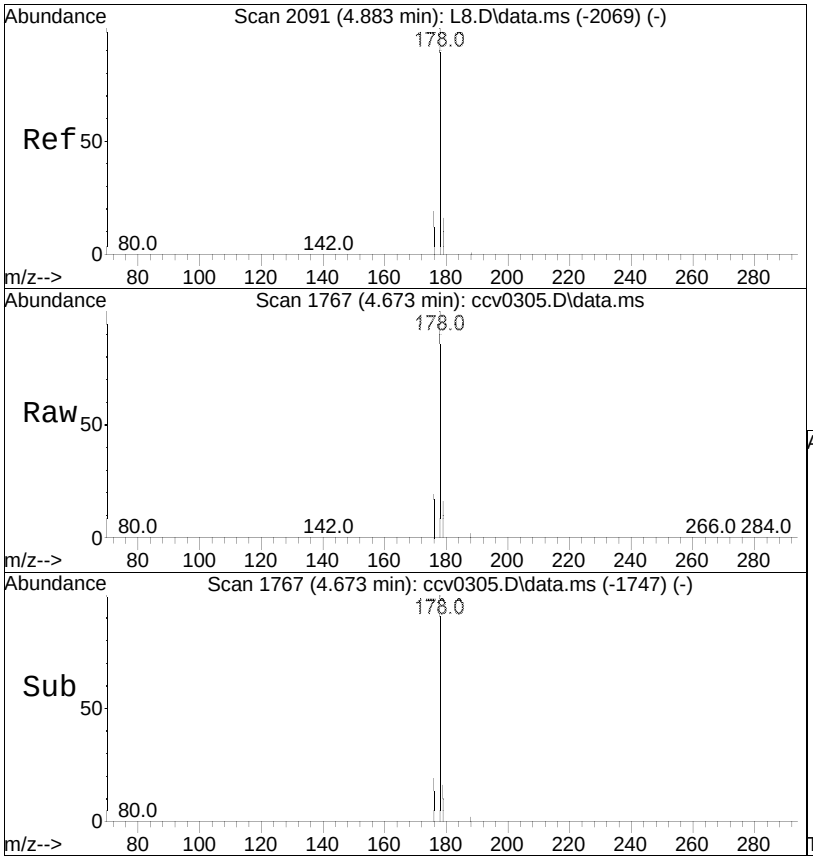


#26
Pentachlorophenol
Concen: 888.67 ng/ml
RT: 4.563 min Scan# 1740
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:266 Resp: 45045

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.8	76.2

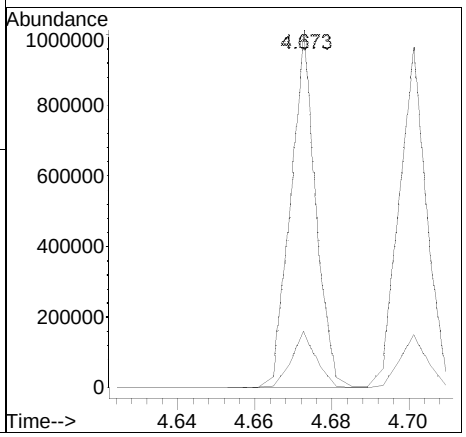


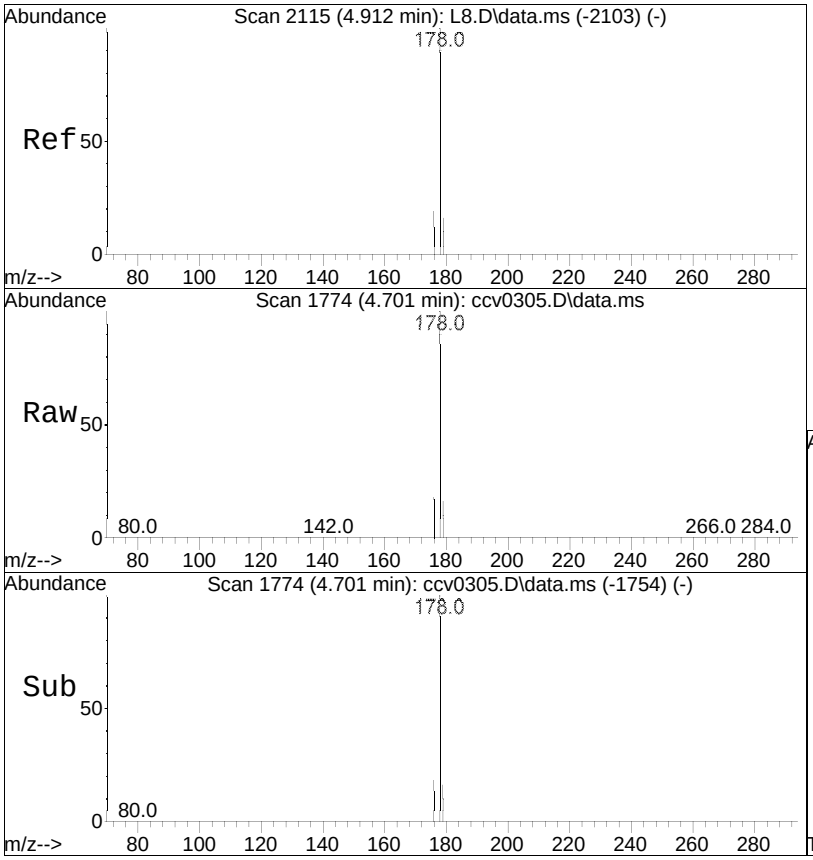


#27
Phenanthrene
Concen: 921.22 ng/ml
RT: 4.673 min Scan# 1767
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:178 Resp: 460358

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.8	19.2

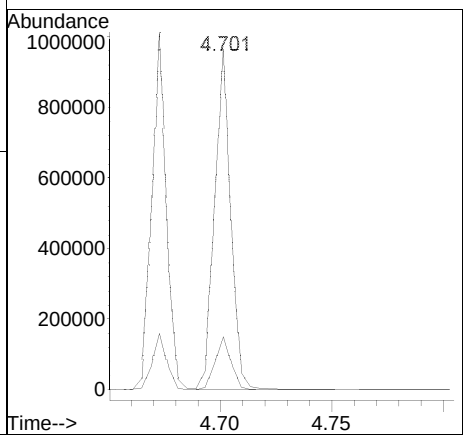


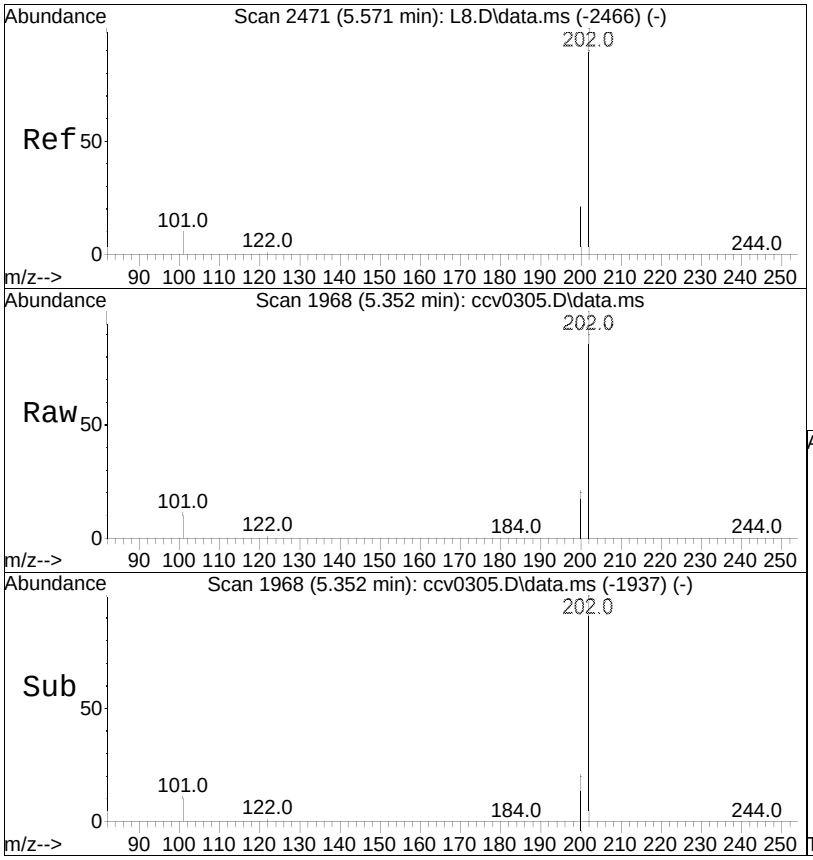


#28
Anthracene
Concen: 966.84 ng/ml
RT: 4.701 min Scan# 1774
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:178 Resp: 484417

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.6	18.8

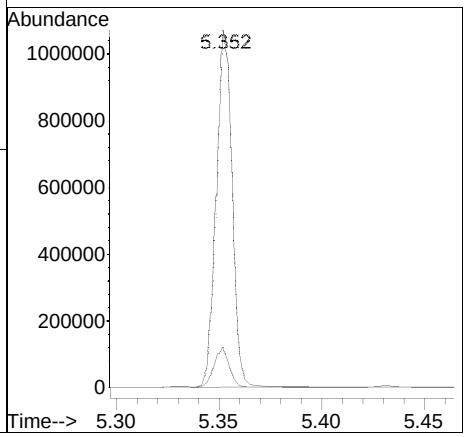


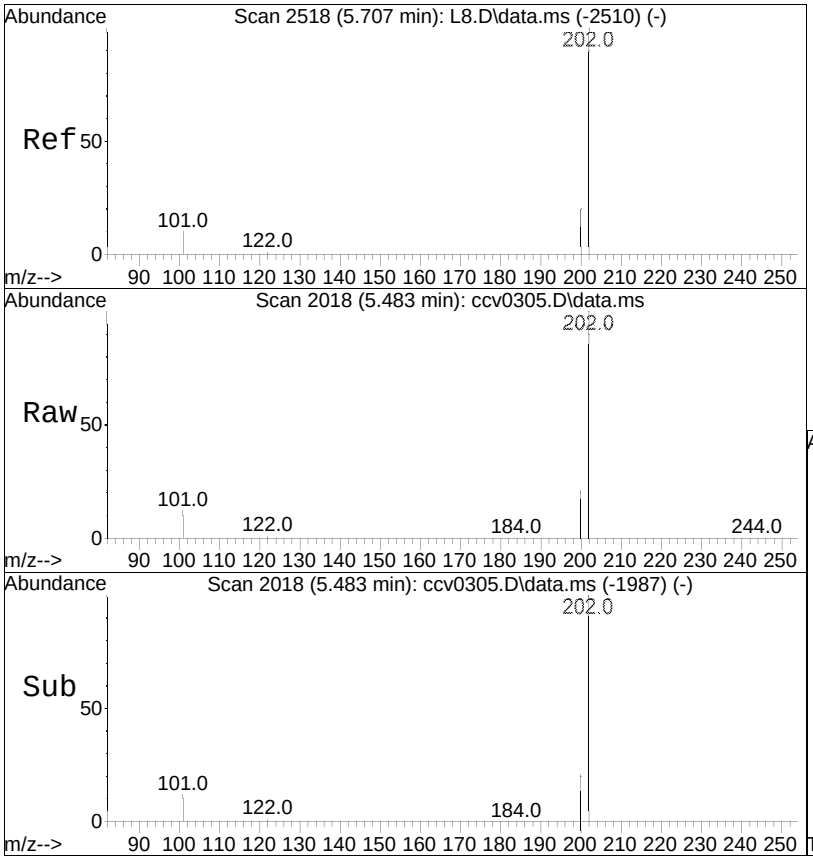


#29
Fluoranthene
Concen: 908.48 ng/ml
RT: 5.352 min Scan# 1968
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:202 Resp: 567988

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.2	12.2

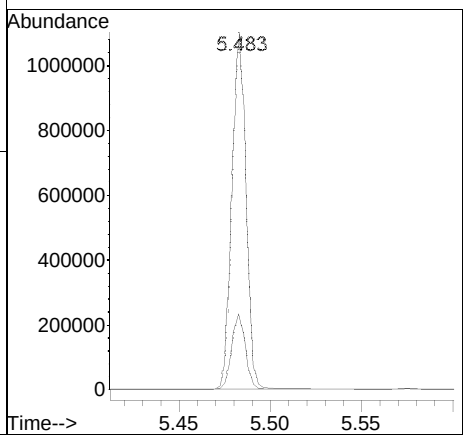


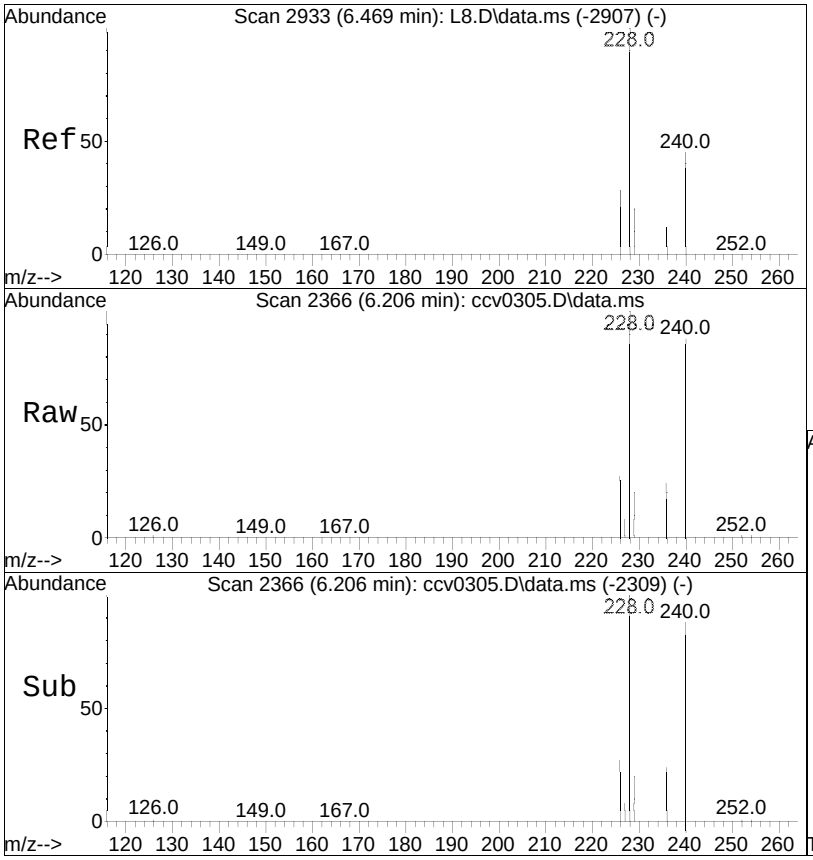


#30
Pyrene
Concen: 896.04 ng/ml
RT: 5.483 min Scan# 2018
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:202 Resp: 578244

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

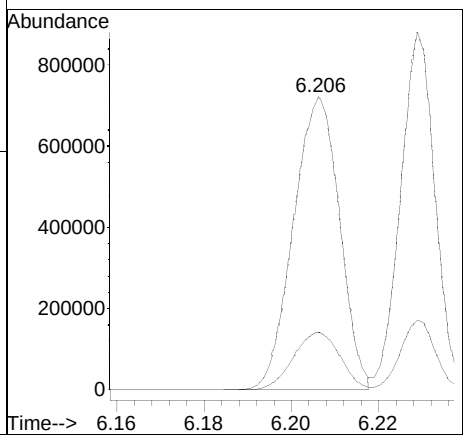


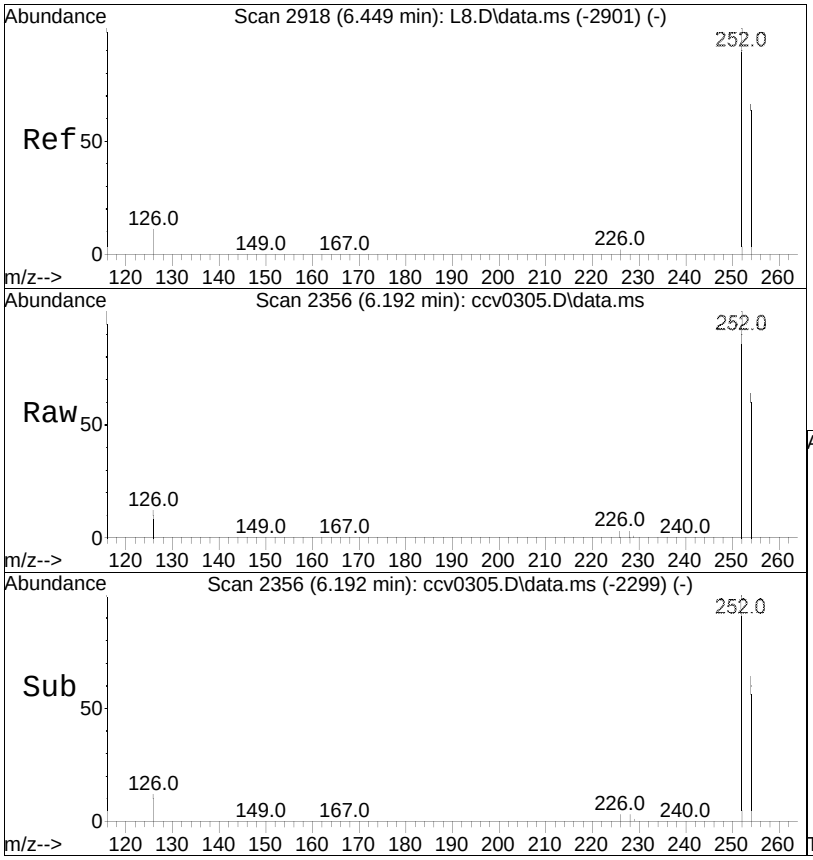


#34
Benzo[a]anthracene
Concen: 959.98 ng/ml
RT: 6.206 min Scan# 2366
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:228 Resp: 527712

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.9	23.9

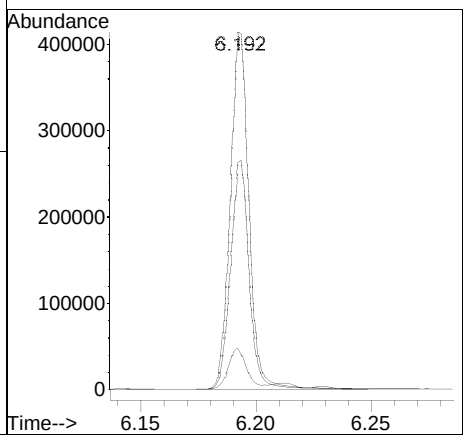


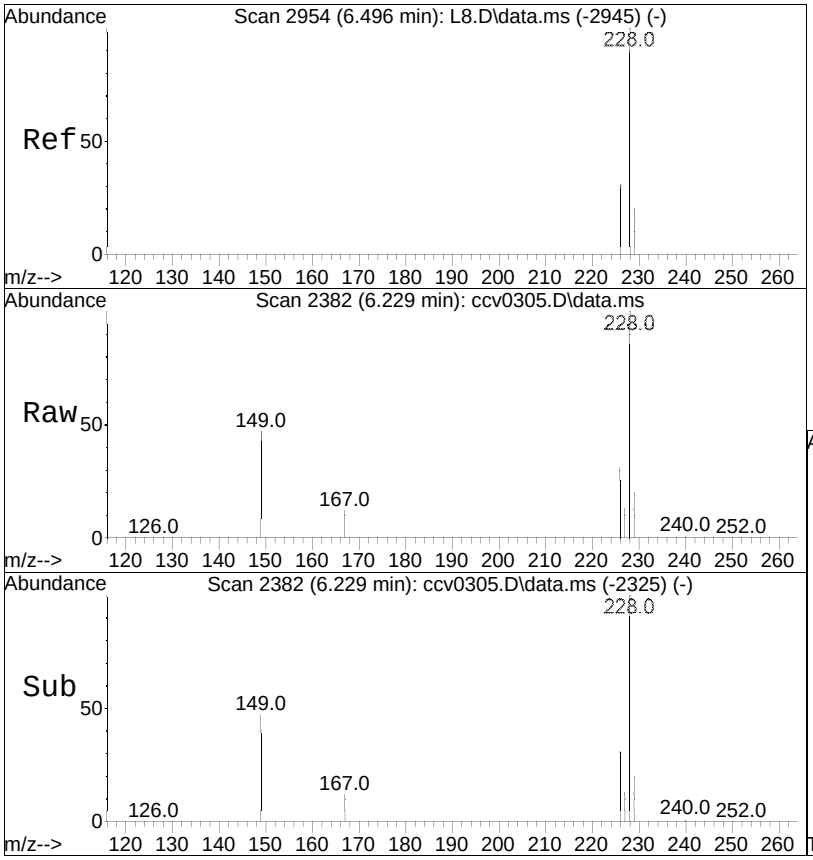


#35
3,3'-Dichlorobenzidine
Concen: 1165.89 ng/ml
RT: 6.192 min Scan# 2356
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:252 Resp: 228195

Ion	Ratio	Lower	Upper
252	100		
126	11.8	8.6	13.0
254	64.2	51.8	77.8

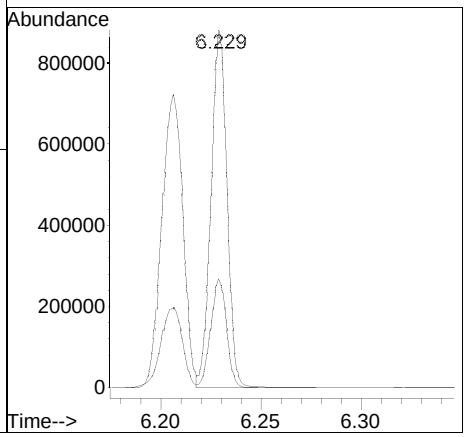


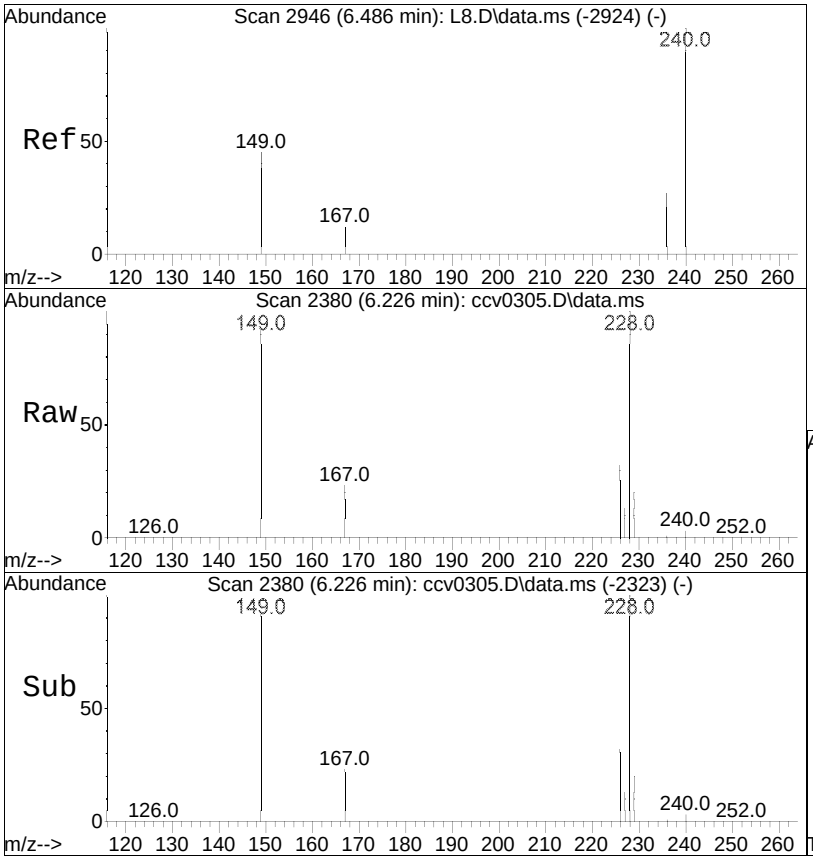


#36
Chrysene
Concen: 909.09 ng/ml
RT: 6.229 min Scan# 2382
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:228 Resp: 485592

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.4	36.6

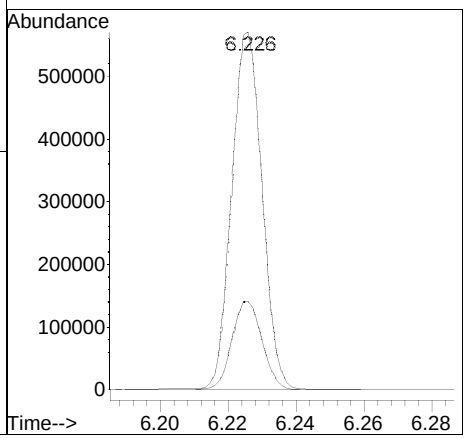


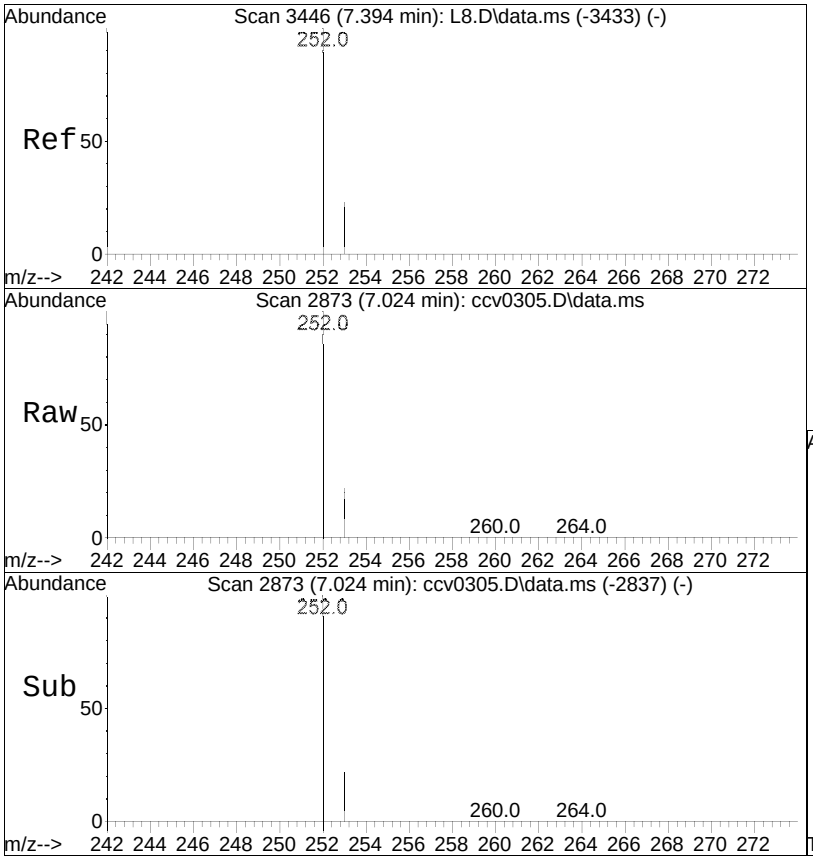


#37
Bis(2-ethylhexyl)phthalate
Concen: 1263.84 ng/ml
RT: 6.226 min Scan# 2380
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:149 Resp: 350213

Ion	Ratio	Lower	Upper
149	100		
167	24.8	20.7	31.1

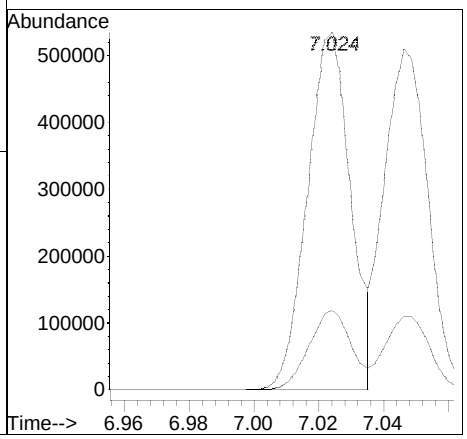


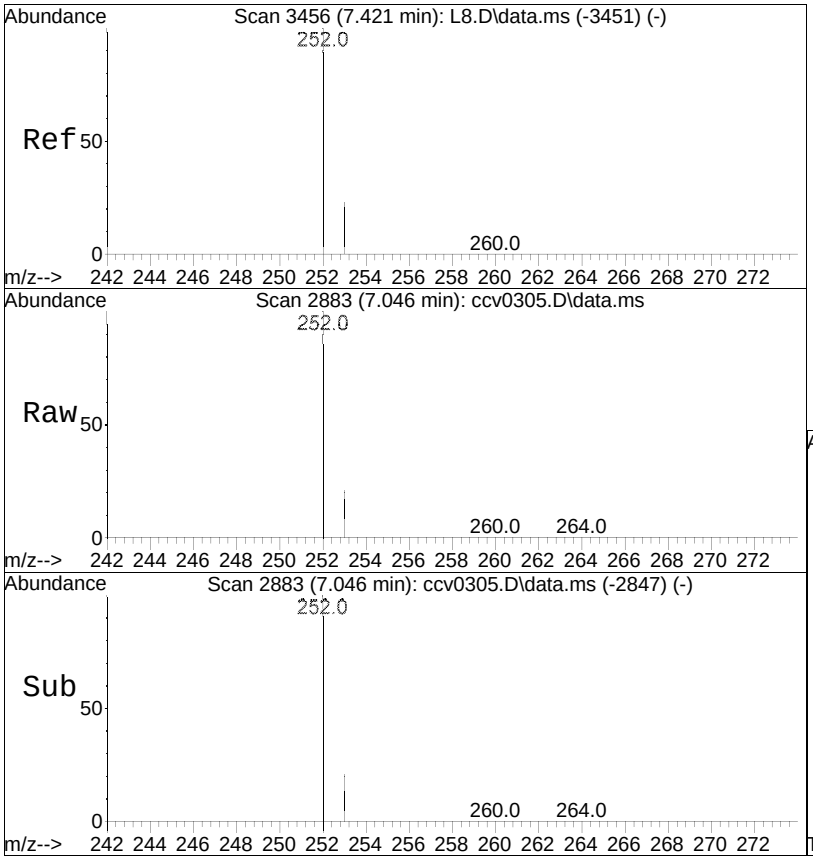


#39
Benzo[b]fluoranthene
Concen: 992.13 ng/ml
RT: 7.024 min Scan# 2873
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:252 Resp: 495170

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.1	27.1

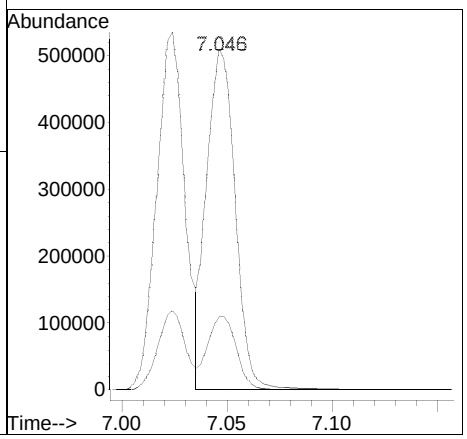


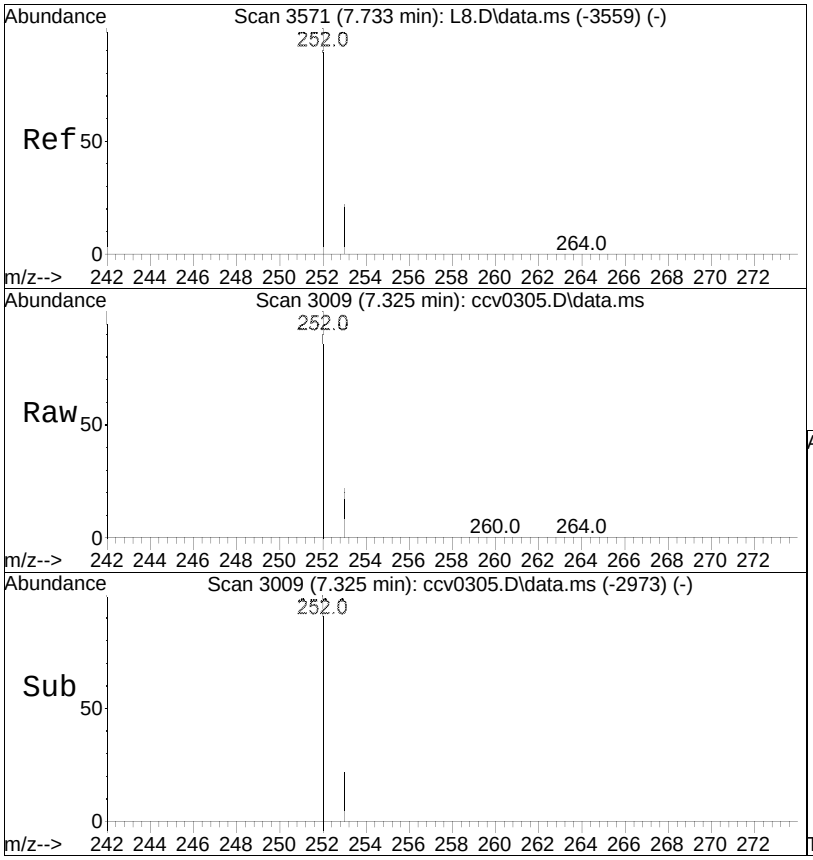


#40
Benzo[k]fluoranthene
Concen: 969.67 ng/ml
RT: 7.046 min Scan# 2883
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:252 Resp: 477252

Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.2	27.2

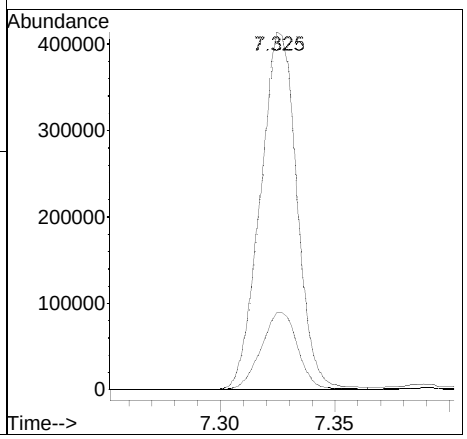


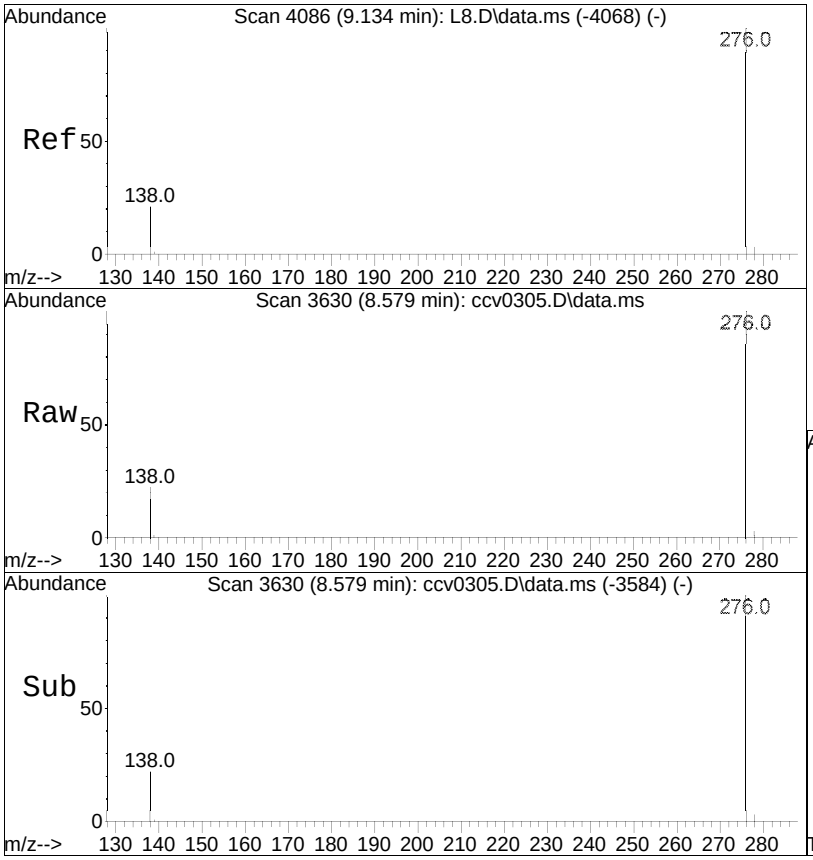


#41
Benzo[a]pyrene
Concen: 1072.83 ng/ml
RT: 7.325 min Scan# 3009
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:252 Resp: 454340

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9

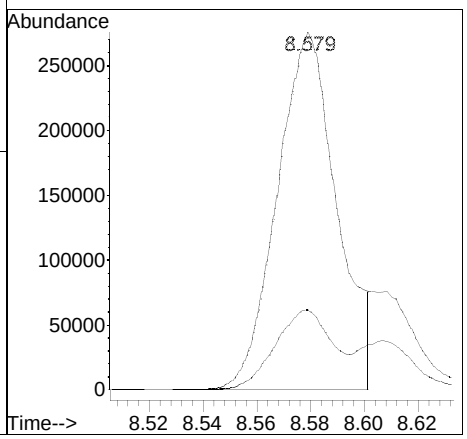


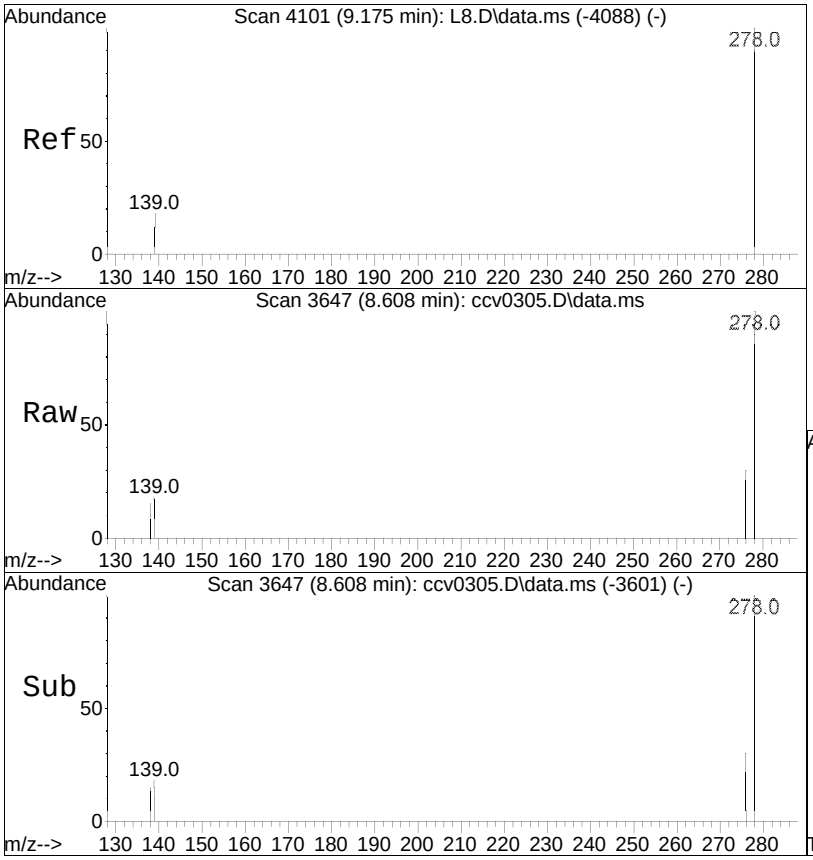


#42
Indeno[1,2,3-cd]pyrene
Concen: 1030.60 ng/ml M6
RT: 8.579 min Scan# 3630
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:276 Resp: 422545

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.9	25.3

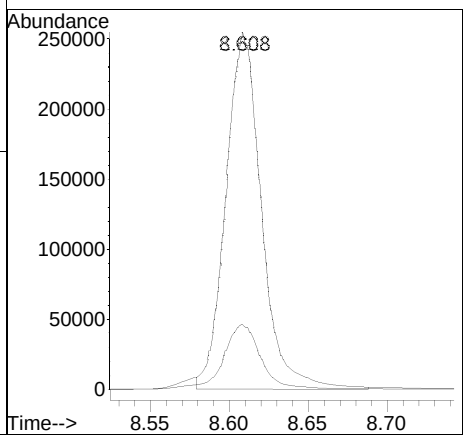


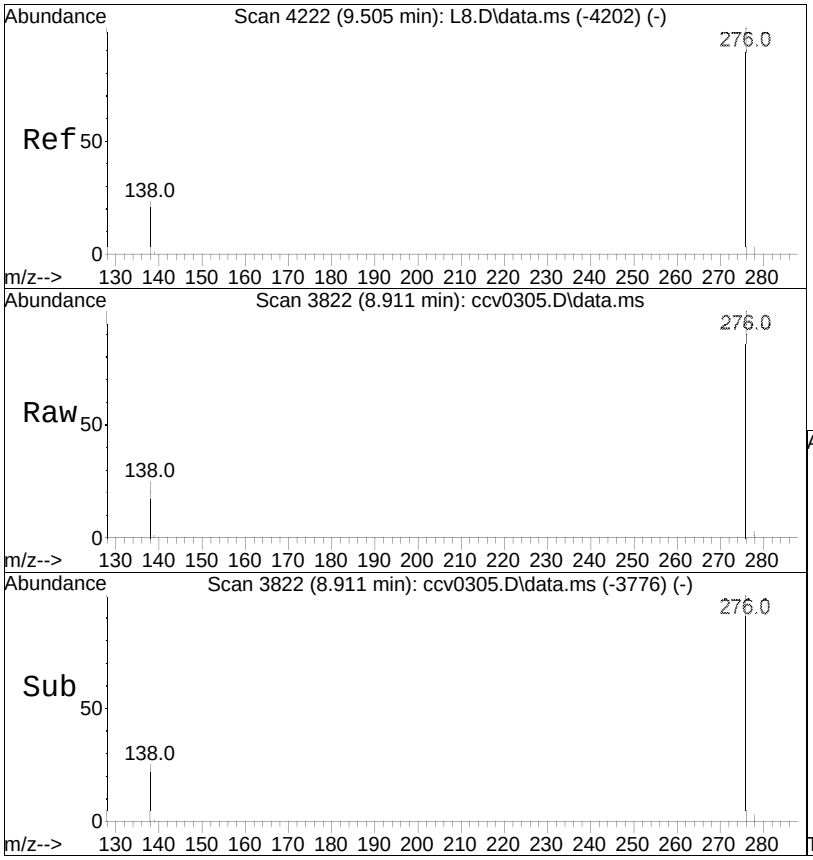


#43
Dibenzo[a,h]anthracene
Concen: 1046.02 ng/ml M6
RT: 8.608 min Scan# 3647
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:278 Resp: 397852

Ion	Ratio	Lower	Upper
278	100		
139	19.1	14.6	22.0

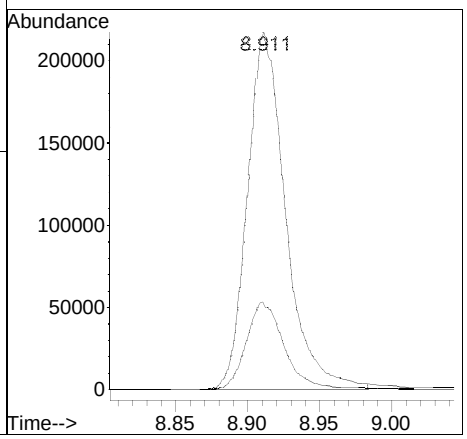




#44
Benzo[g,h,i]perylene
Concen: 1013.75 ng/ml
RT: 8.911 min Scan# 3822
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2025 06:29 am

Tgt Ion:276 Resp: 395593

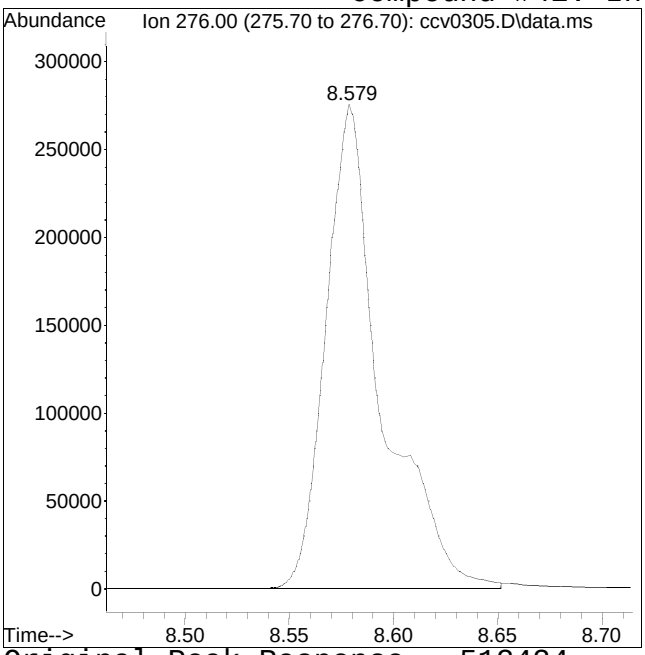
Ion	Ratio	Lower	Upper
276	100		
138	24.6	18.6	28.0



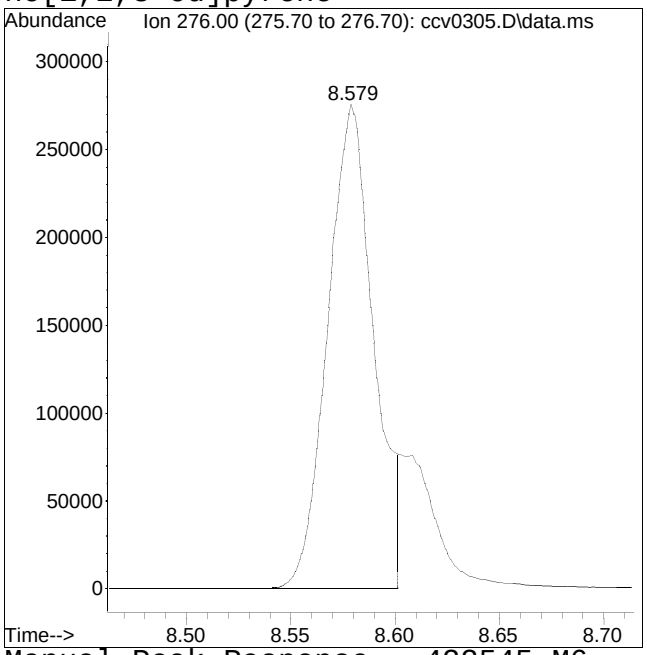
Manual Integration Report

Data Path : I:\8270SIM\sv119\250305RVTQ
Data File : ccv0305.D
Date Inj'd : 3/5/2025 6:29 am
Sample : wg2036764-3,32,,ICV 11275
Method : SIM-RVT_241229_sv119.M
Operator : sv119:kmh
Instrument : SV119
Quant Date : 3/5/2025 6:44 am

Compound #42: Indeno[1,2,3-cd]pyrene



Original Peak Response = 512424



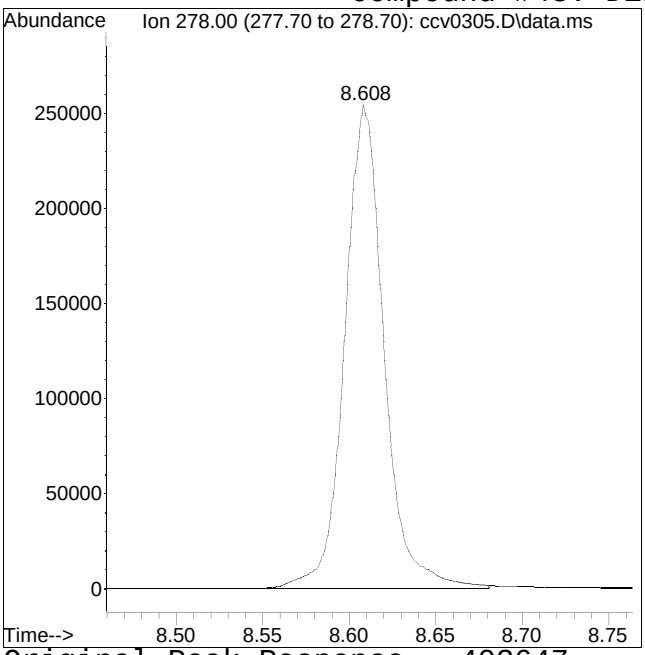
Manual Peak Response = 422545 M6

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

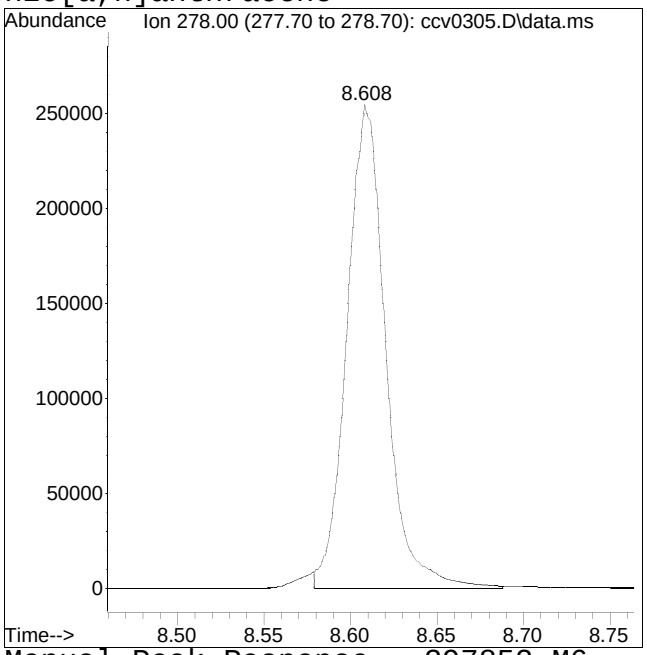
Manual Integration Report

Data Path : I:\8270SIM\sv119\250305RVTQ
Data File : ccv0305.D
Date Inj'd : 3/5/2025 6:29 am
Sample : wg2036764-3,32,,ICV 11275
Method : SIM-RVT_241229_sv119.M
Operator : sv119:kmh
Instrument : SV119
Quant Date : 3/5/2025 6:44 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 403647



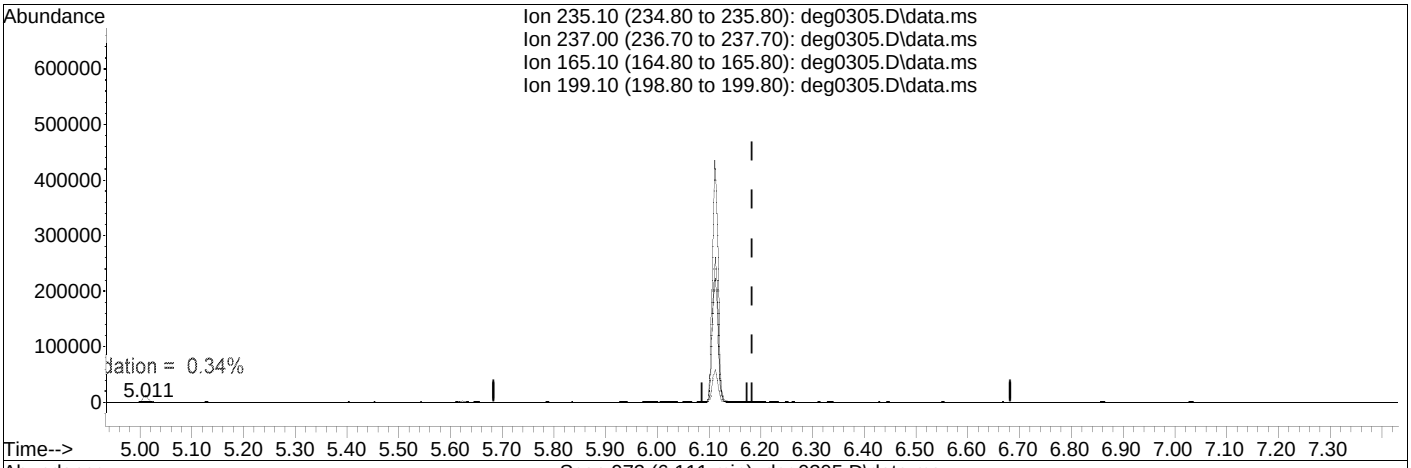
Manual Peak Response = 397852 M6

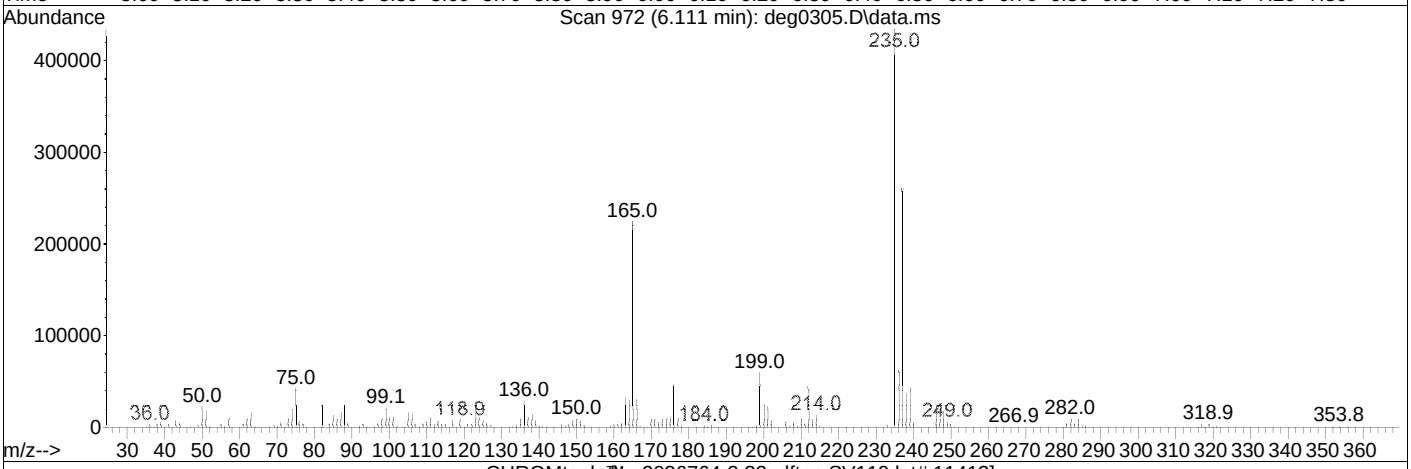
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : deg0305.D
Acq On : 05 Mar 2025 06:11 am
Operator : sv119:kmh
Sample : wg2036764-2,32,,dftpp SV119 lot# 11413
Misc : wg2036764,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:26:07 2025
Quant Method : I:\8270SIM\sv119\250305RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2036764-2,32,,dftpp SV119 lot# 11413]

(6) ddt (T)

6.111min (-0.072) 52.31

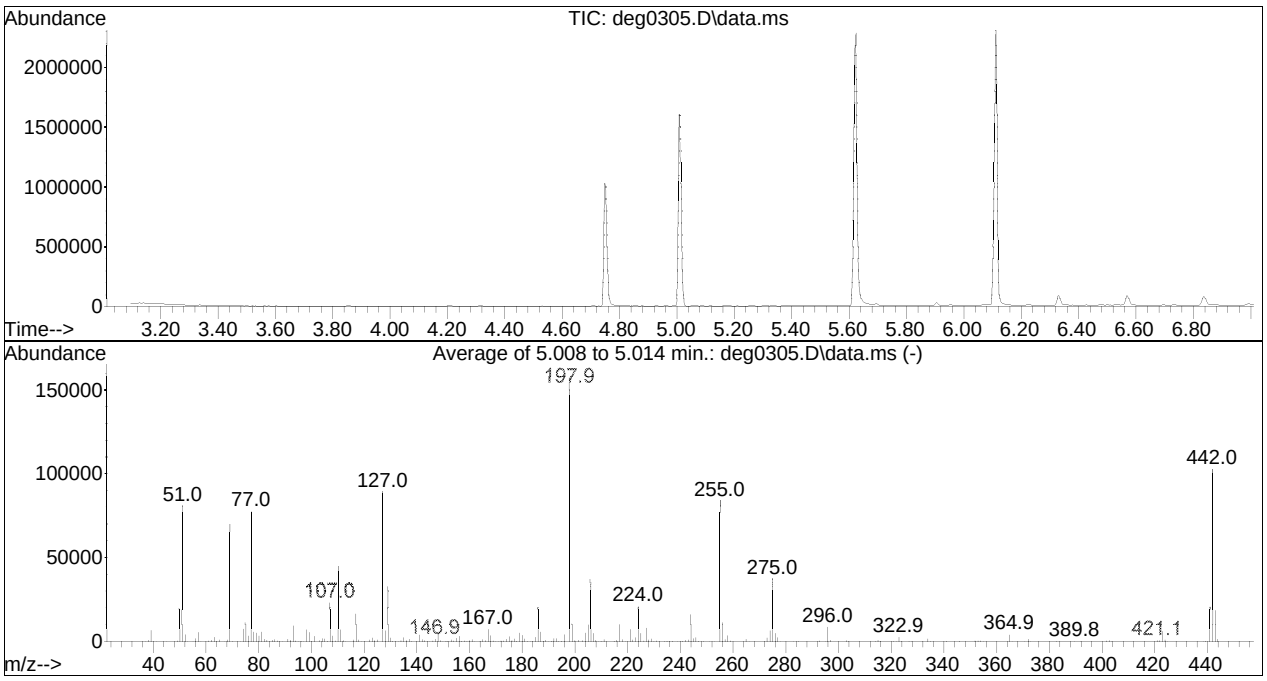
response 318880

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	59.51
165.10	53.30	51.92
199.10	17.10	13.75

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : deg0305.D
Acq On : 05 Mar 2025 06:11 am
Operator : sv119:kmh
Sample : wg2036764-1,32,,dftpp SV119 lot# 11413
Misc : wg2036764,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 05 06:44:16 2025



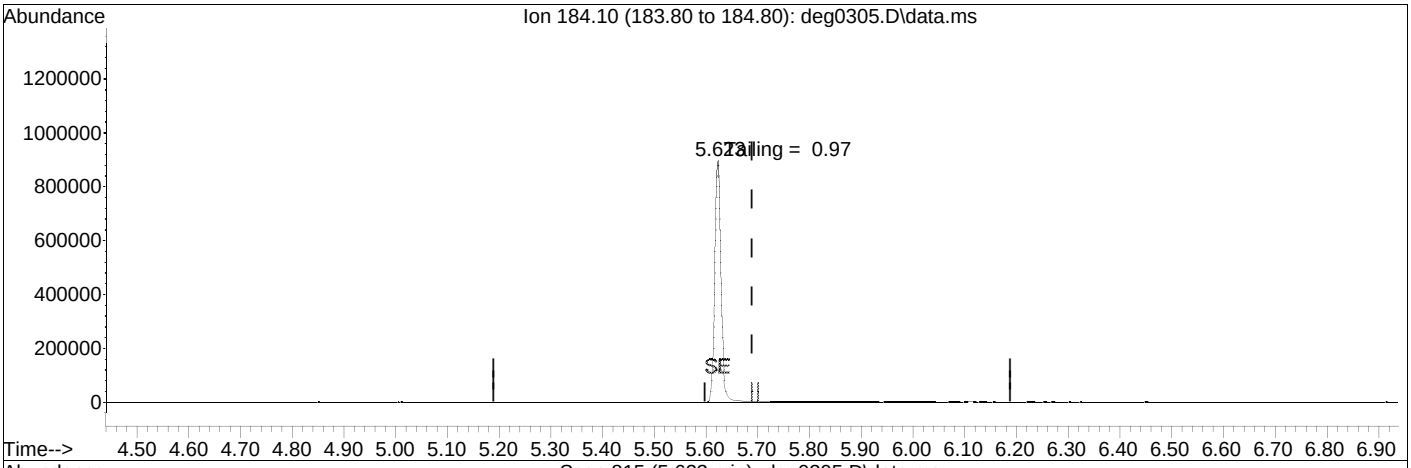
Spectrum Information: Average of 5.008 to 5.014 min.

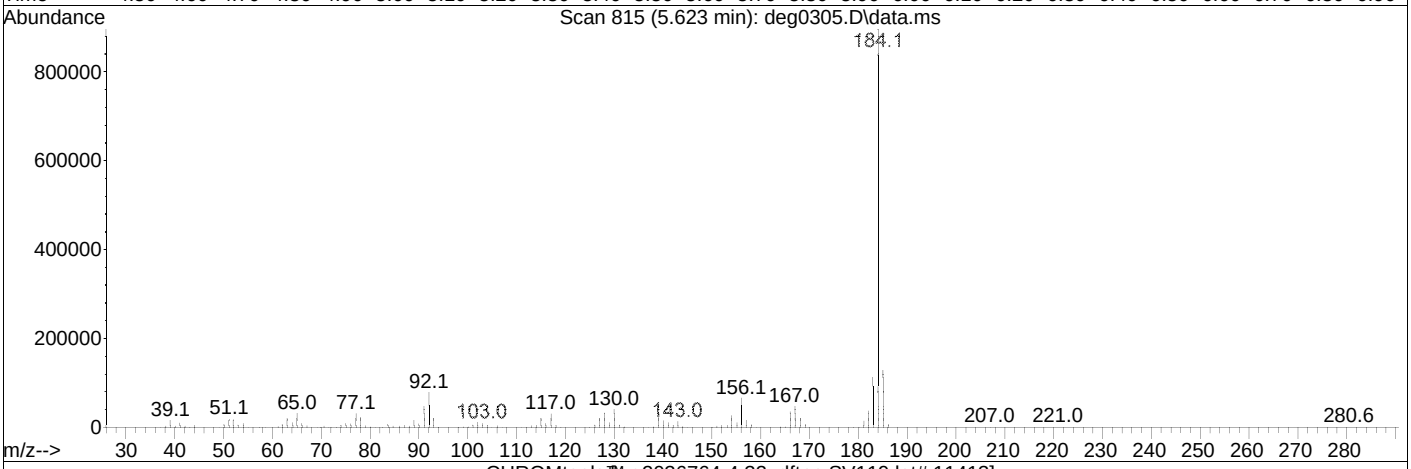
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.4	80845	PASS
68	69	0.00	2	1.9	1310	PASS
69	69	100	100	100.0	69490	PASS
70	69	0.00	2	0.6	409	PASS
127	198	10	80	56.7	89168	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	157355	PASS
199	198	5	9	6.8	10704	PASS
275	198	10	60	23.6	37195	PASS
365	198	1	100	2.6	4077	PASS
441	442	0.01	24	20.1	20668	PASS
442	198	50	100	65.3	102693	PASS
443	442	15	24	17.9	18372	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : deg0305.D
Acq On : 05 Mar 2025 06:11 am
Operator : sv119:kmh
Sample : wg2036764-4,32,,dftpp SV119 lot# 11413
Misc : wg2036764,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:26:07 2025
Quant Method : I:\8270SIM\sv119\250305RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2036764-4,32,,dftpp SV119 lot# 11413]

(3) benzidine (T)

5.623min (-0.066) 71.29

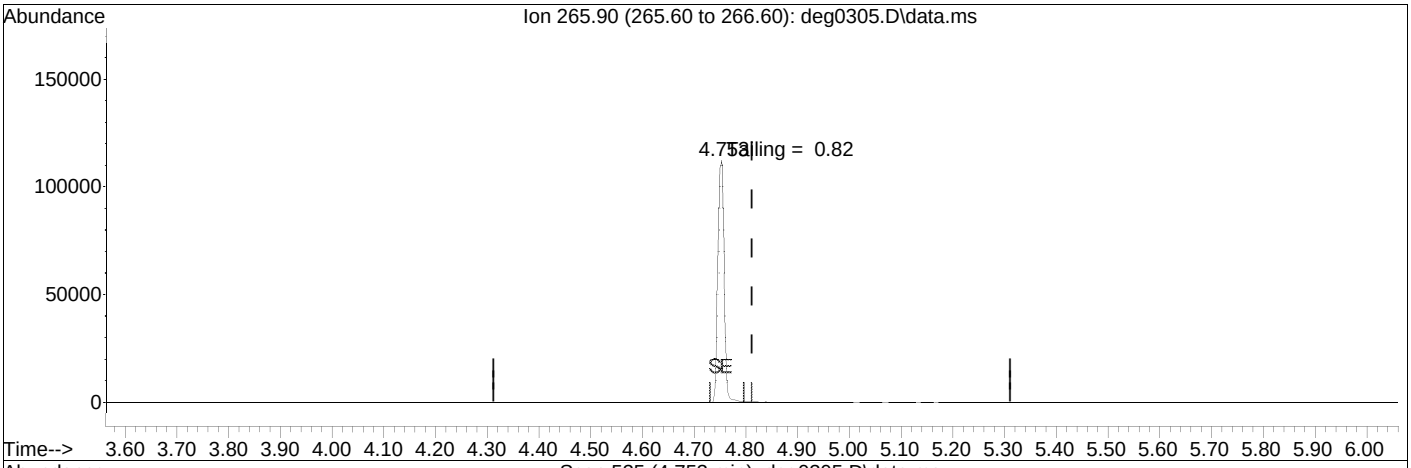
response 725744

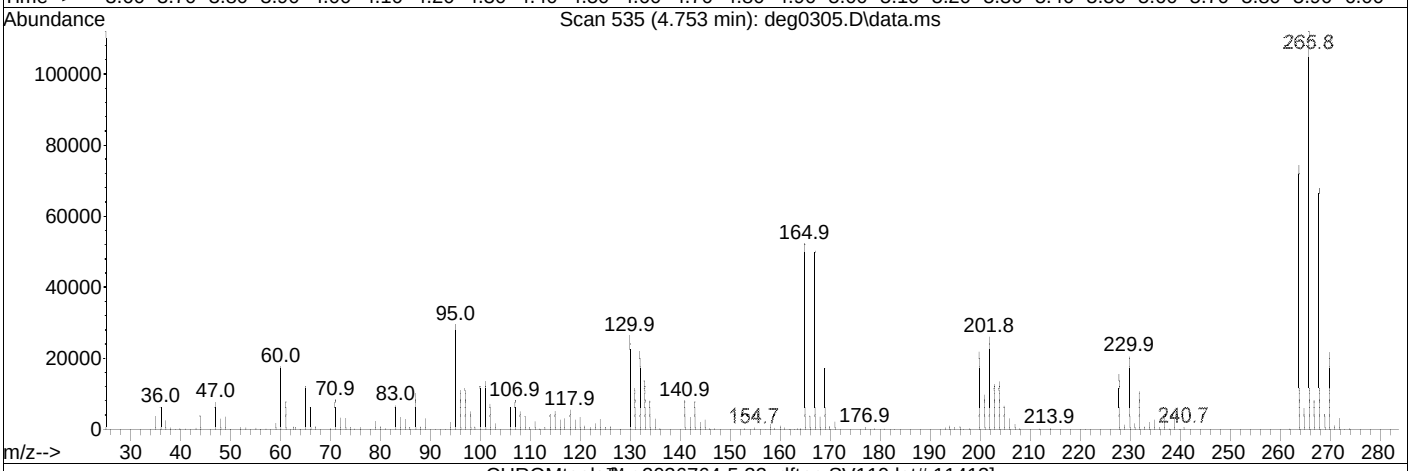
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : deg0305.D
Acq On : 05 Mar 2025 06:11 am
Operator : sv119:kmh
Sample : wg2036764-5,32,,dftpp SV119 lot# 11413
Misc : wg2036764,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:26:07 2025
Quant Method : I:\8270SIM\sv119\250305RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2036764-5,32,,dftpp SV119 lot# 11413]

(1) pentachlorophenol (T)

4.753min (-0.059) 41.24

response 86617

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-1.D
Acq On : 05 Mar 2025 12:21 pm
Operator : sv119:kmh
Sample : WG2036768-1,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 05 12:35:49 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.208	152	289729	4000.000	ng/ml	0.00
Standard Area 1 = 358448			Recovery = 80.83%			
9) Naphthalene-d8	2.864	136	1164290	4000.000	ng/ml	0.00
Standard Area 1 = 1402776			Recovery = 83.00%			
18) Acenaphthene-d10	3.831	164	676316	4000.000	ng/ml	0.00
Standard Area 1 = 821052			Recovery = 82.37%			
23) Phenanthrene-d10	4.665	188	1348320	4000.000	ng/ml	0.00
Standard Area 1 = 1709135			Recovery = 78.89%			
33) Chrysene-d12	6.203	240	1184076	4000.000	ng/ml	-0.01
Standard Area 1 = 1551369			Recovery = 76.32%			
38) Perylene-d12	7.377	264	1036215	4000.000	ng/ml	-0.01
Standard Area 1 = 1505949			Recovery = 68.81%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.644	112	100032	1288.583	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 64.43%			
4) Phenol-d6	2.030	99	89714	925.928	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.30%			
8) Nitrobenzene-d5	2.489	82	78209	832.394	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 83.24%			
14) 2-Fluorobiphenyl	3.454	172	204174	719.160	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 71.92%			
22) 2,4,6-Tribromophenol	4.277	330	51289	1737.565	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 86.88%			
32) 4-Terphenyl-d14	5.577	244	247902	741.141	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.11%			

Target Compounds				Qvalue
5) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
7) Hexachloroethane	0.000	0	N.D.	
10) Naphthalene	0.000	0	N.D. d	
11) Hexachlorobutadiene	0.000	0	N.D.	
12) 2-Methylnaphthalene	0.000	0	N.D. d	
15) 2-Chloronaphthalene	0.000	0	N.D. d	
17) Acenaphthylene	0.000	0	N.D. d	
19) Acenaphthene	0.000	0	N.D. d	
21) Fluorene	0.000	0	N.D. d	
25) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-1.D
Acq On : 05 Mar 2025 12:21 pm
Operator : sv119:kmh
Sample : WG2036768-1,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 05 12:35:49 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

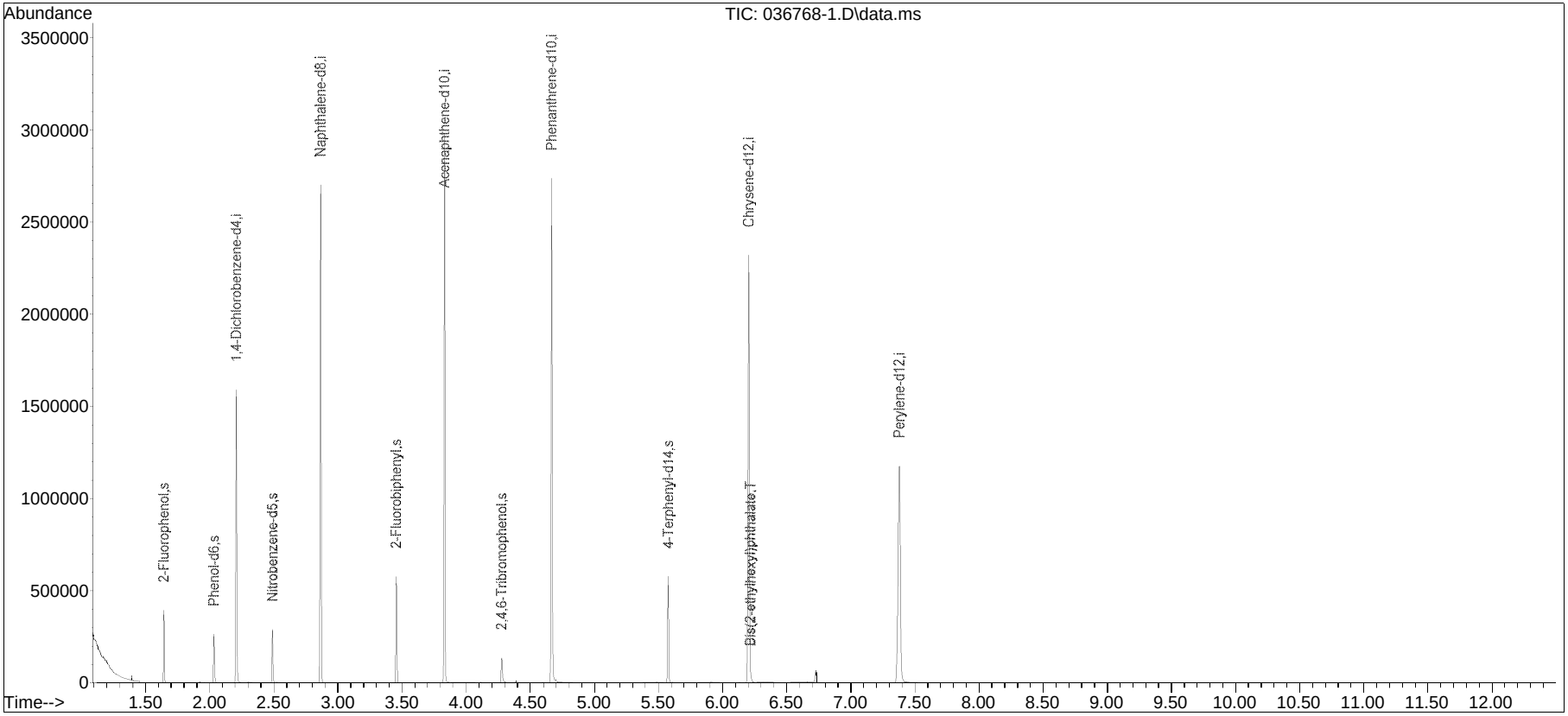
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-1.D
Acq On : 05 Mar 2025 12:21 pm
Operator : sv119:kmh
Sample : WG2036768-1,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 05 12:35:49 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0305.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250305RVTQ	Method	: SIM-RVT_241229_sv119.M
Data File	: 036768-1.D	Operator	: sv119:kmh
Date Inj'd	: 3/5/2025 12:21 pm	Instrument	: SV119
Sample	: WG2036768-1,32,,kmh	Quant Date	: 3/5/2025 12:35 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-2.D
Acq On : 05 Mar 2025 11:47 am
Operator : sv119:kmh
Sample : WG2036768-2,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 12:02:31 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.208	152	353317	4000.000	ng/ml	0.00
Standard Area 1 = 358448			Recovery = 98.57%			
9) Naphthalene-d8	2.864	136	1457535	4000.000	ng/ml	0.00
Standard Area 1 = 1402776			Recovery = 103.90%			
18) Acenaphthene-d10	3.833	164	886516	4000.000	ng/ml	0.00
Standard Area 1 = 821052			Recovery = 107.97%			
23) Phenanthrene-d10	4.666	188	1824450	4000.000	ng/ml	0.00
Standard Area 1 = 1709135			Recovery = 106.75%			
33) Chrysene-d12	6.206	240	1517655	4000.000	ng/ml	0.00
Standard Area 1 = 1551369			Recovery = 97.83%			
38) Perylene-d12	7.382	264	1421547	4000.000	ng/ml	0.00
Standard Area 1 = 1505949			Recovery = 94.40%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.647	112	89051M3	940.675	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.03%			
4) Phenol-d6	2.031	99	83032	702.733	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.14%			
8) Nitrobenzene-d5	2.488	82	68616	598.859	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 59.89%			
14) 2-Fluorobiphenyl	3.454	172	181338	510.218	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 51.02%			
22) 2,4,6-Tribromophenol	4.277	330	53381	1379.642	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 68.98%			
32) 4-Terphenyl-d14	5.576	244	224027	494.974	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 49.50%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	2.074	93	132571	1215.608	ng/ml	90
7) Hexachloroethane	2.462	117	52329	1142.673	ng/ml	97
10) Naphthalene	2.874	128	432718	1064.481	ng/ml	100
11) Hexachlorobutadiene	2.944	225	68998	964.495	ng/ml	100
12) 2-Methylnaphthalene	3.251	142	291909	1027.590	ng/ml	99
15) 2-Chloronaphthalene	3.521	162	326898	1114.220	ng/ml#	86
17) Acenaphthylene	3.751	152	557317	1226.623	ng/ml	99
19) Acenaphthene	3.849	153	342722	1159.146	ng/ml	94
21) Fluorene	4.139	166	418124	1230.880	ng/ml	97

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-2.D
Acq On : 05 Mar 2025 11:47 am
Operator : sv119:kmh
Sample : WG2036768-2,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 12:02:31 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Hexachlorobenzene	4.455	284	126648	1177.660	ng/ml	92
26) Pentachlorophenol	4.569	266	68578	1244.438	ng/ml	99
27) Phenanthrene	4.678	178	616980	1156.603	ng/ml	99
28) Anthracene	4.707	178	652464	1219.940	ng/ml	100
29) Fluoranthene	5.356	202	739781	1108.470	ng/ml	99
30) Pyrene	5.484	202	765832	1111.719	ng/ml	100
34) Benzo[a]anthracene	6.198	228	654597	1219.348	ng/ml	100
36) Chrysene	6.222	228	587414	1124.145	ng/ml	100
39) Benzo[b]fluoranthene	7.015	252	589658	1251.593	ng/ml	98
40) Benzo[k]fluoranthene	7.037	252	551779	1187.658	ng/ml	99
41) Benzo[a]pyrene	7.316	252	521210	1303.798	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.572	276	538918	1392.484	ng/ml	100
43) Dibenzo[a,h]anthracene	8.605	278	493611M6	1374.846	ng/ml	
44) Benzo[g,h,i]perylene	8.907	276	511482	1388.549	ng/ml	99

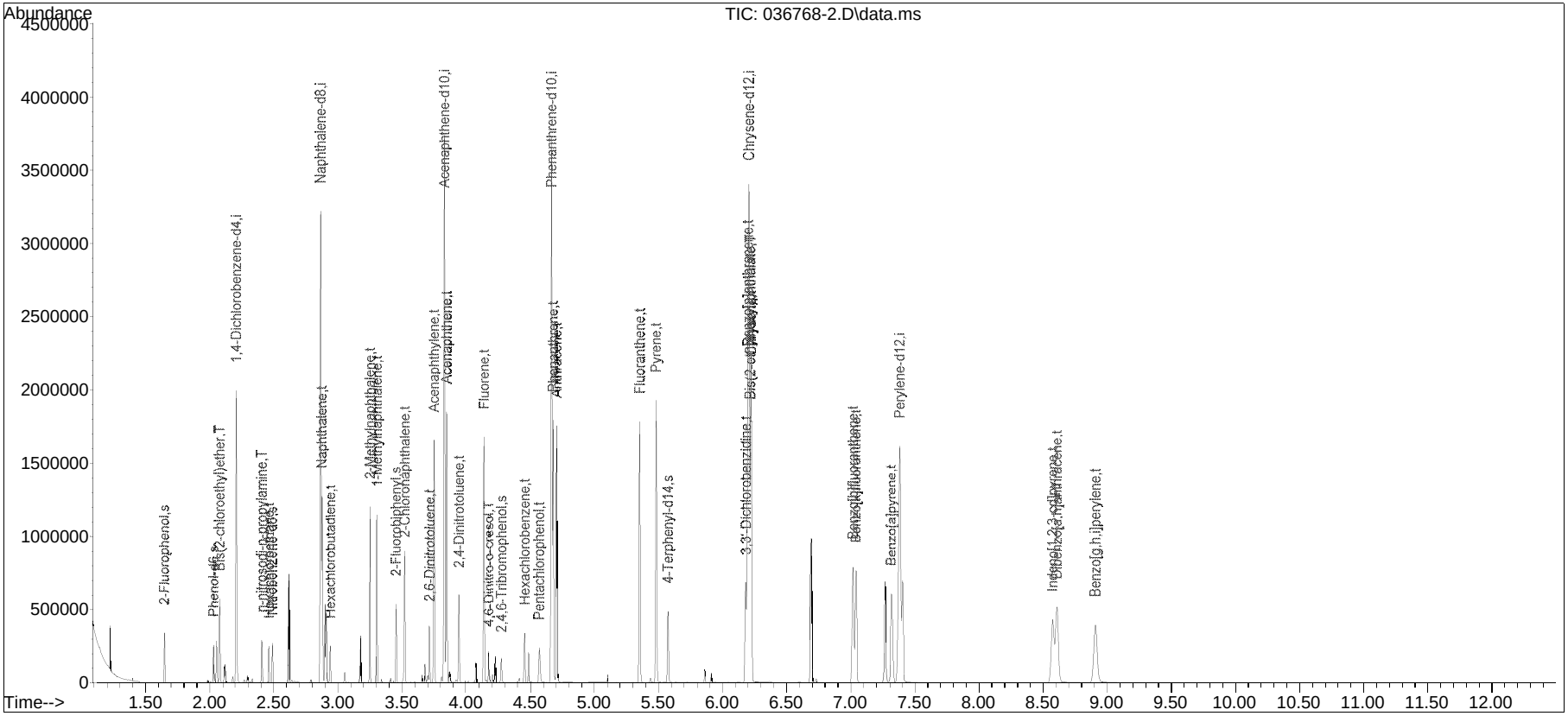
(#) = qualifier out of range (m) = manual integration (+) = signals summed

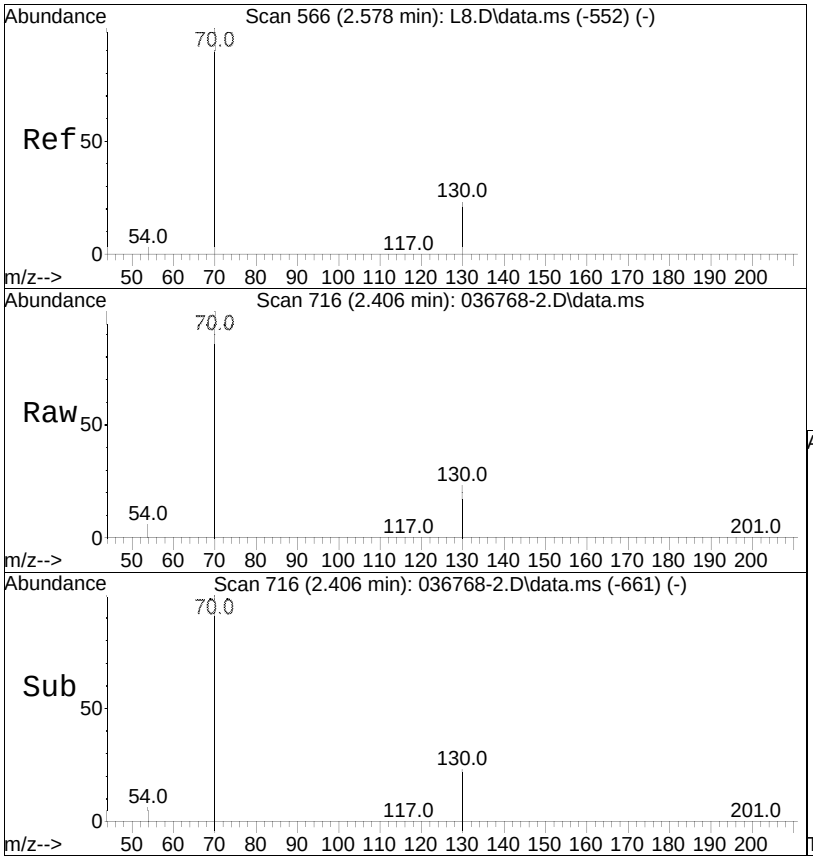
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-2.D
Acq On : 05 Mar 2025 11:47 am
Operator : sv119:kmh
Sample : WG2036768-2,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 12:02:31 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0305.D•

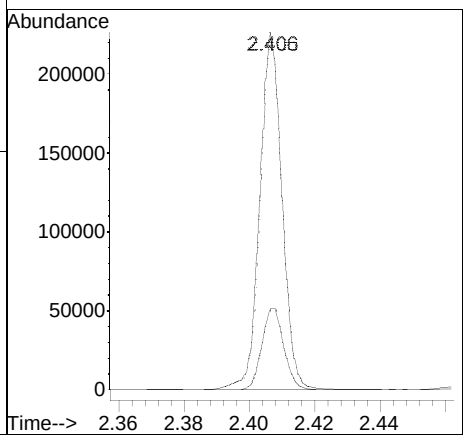


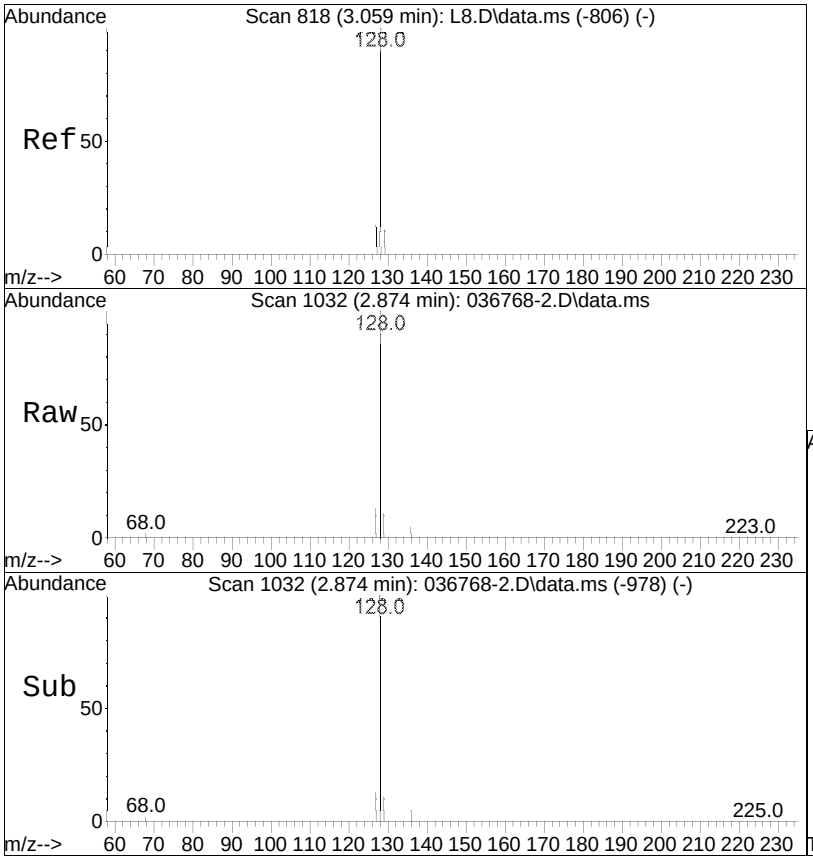


#6
n-nitrosodi-n-propylamine
Concen: 1425.90 ng/ml
RT: 2.406 min Scan# 716
Delta R.T. 0.007 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion: 70 Resp: 104218

Ion	Ratio	Lower	Upper
70	100		
130	22.7	18.1	27.1

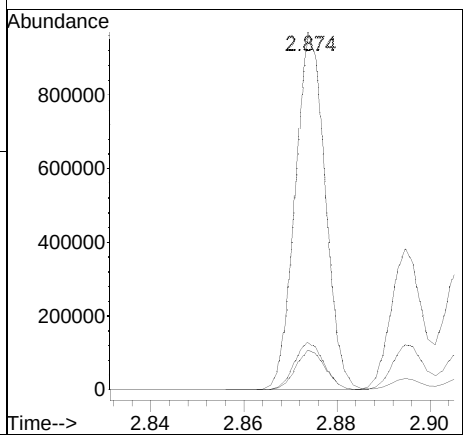


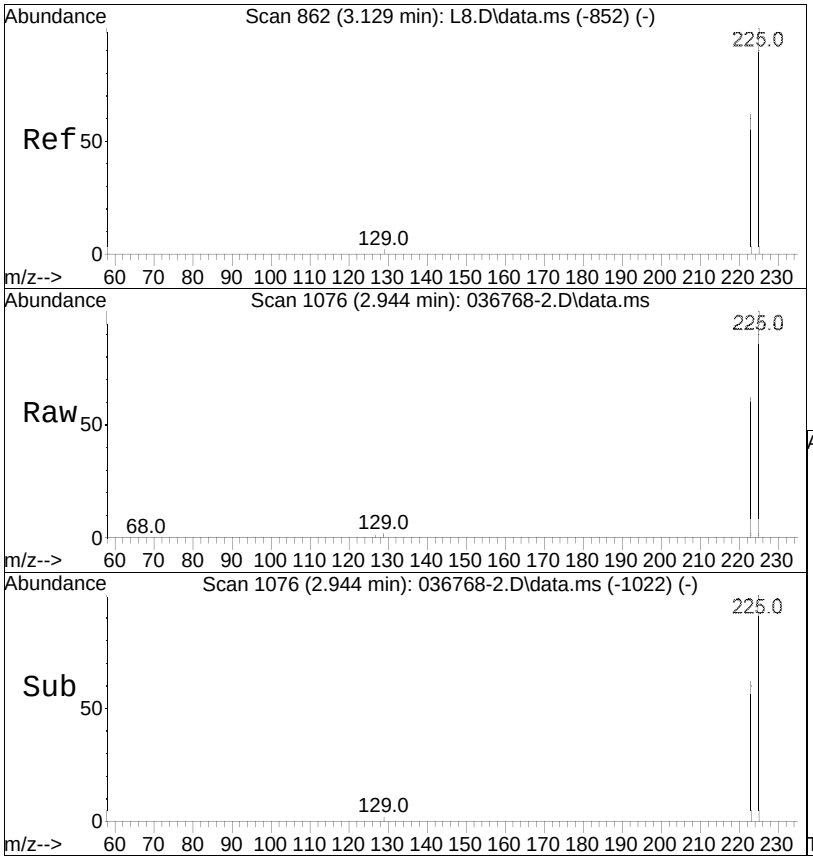


#10
Naphthalene
Concen: 1064.48 ng/ml
RT: 2.874 min Scan# 1032
Delta R.T. 0.006 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:128 Resp: 432718

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.3	10.5	15.7

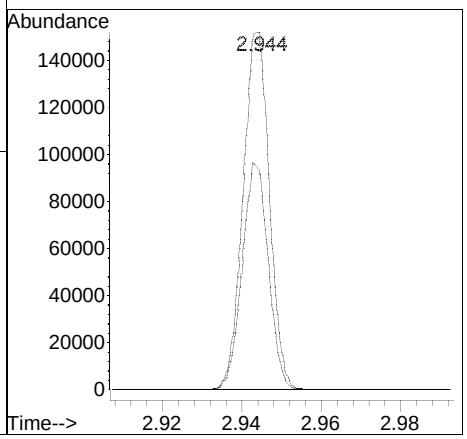


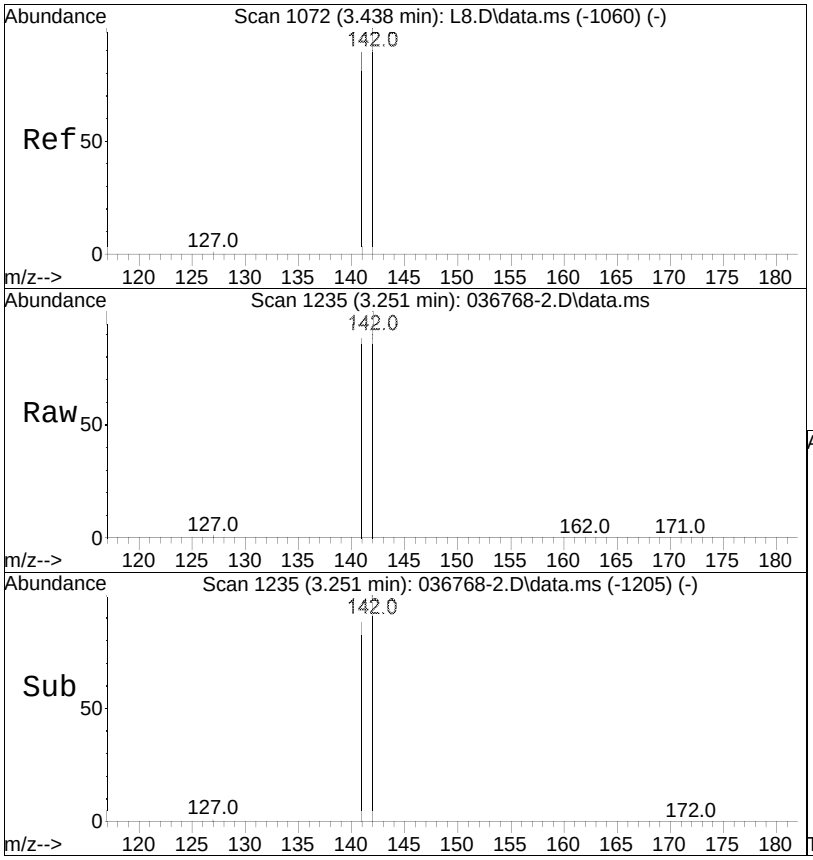


#11
Hexachlorobutadiene
Concen: 964.49 ng/ml
RT: 2.944 min Scan# 1076
Delta R.T. 0.006 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:225 Resp: 68998

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6

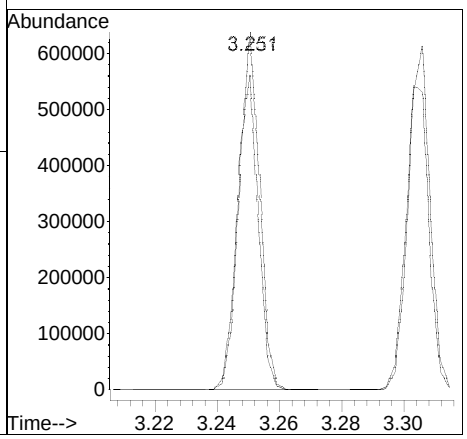


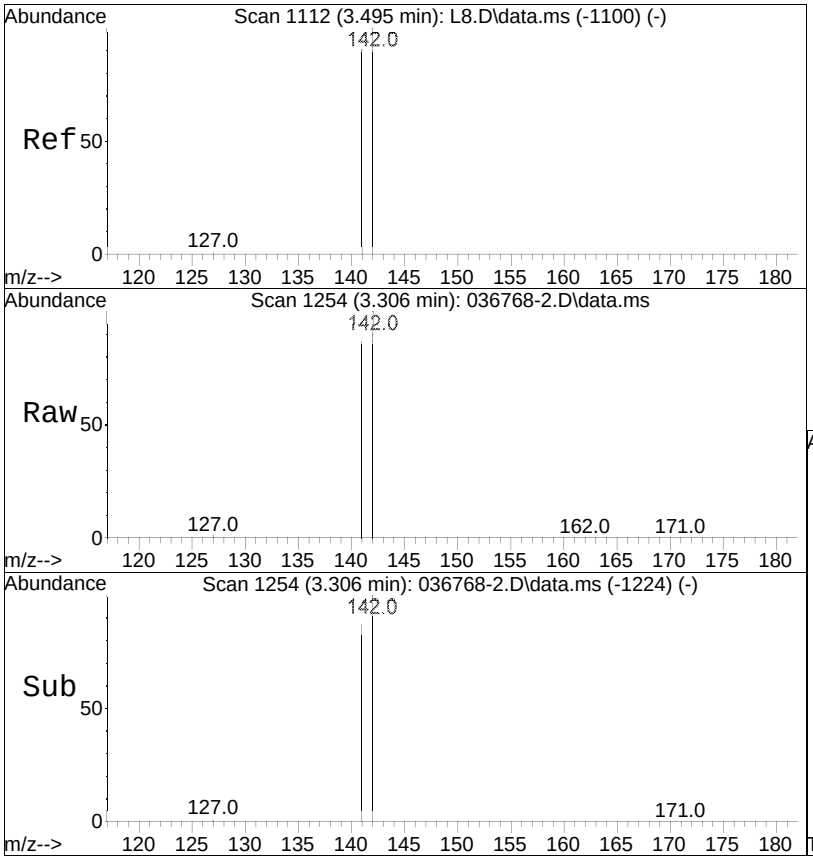


#12
2-Methylnaphthalene
Concen: 1027.59 ng/ml
RT: 3.251 min Scan# 1235
Delta R.T. 0.006 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:142 Resp: 291909

Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.3	106.9

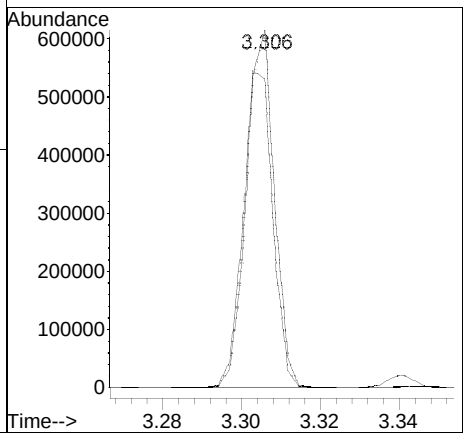


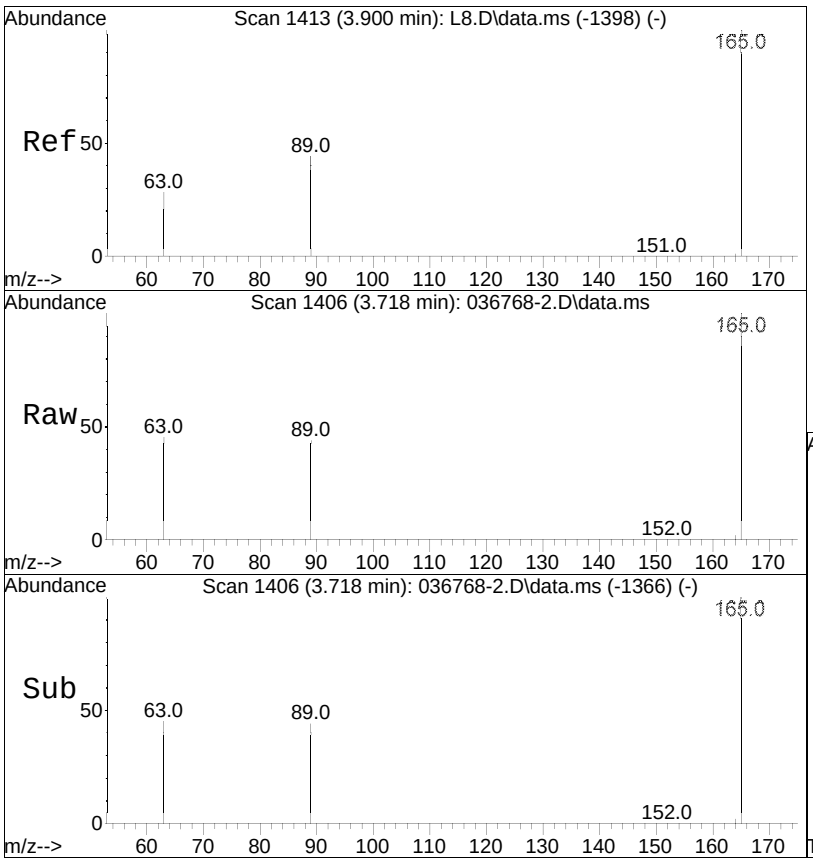


#13
1-Methylnaphthalene
Concen: 1143.02 ng/ml
RT: 3.306 min Scan# 1254
Delta R.T. 0.006 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:142 Resp: 298974

Ion	Ratio	Lower	Upper
142	100		
141	93.7	73.8	110.6

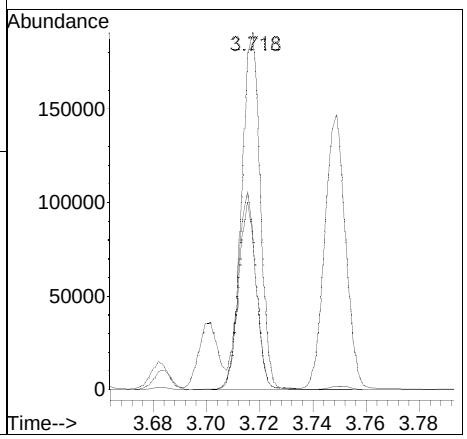


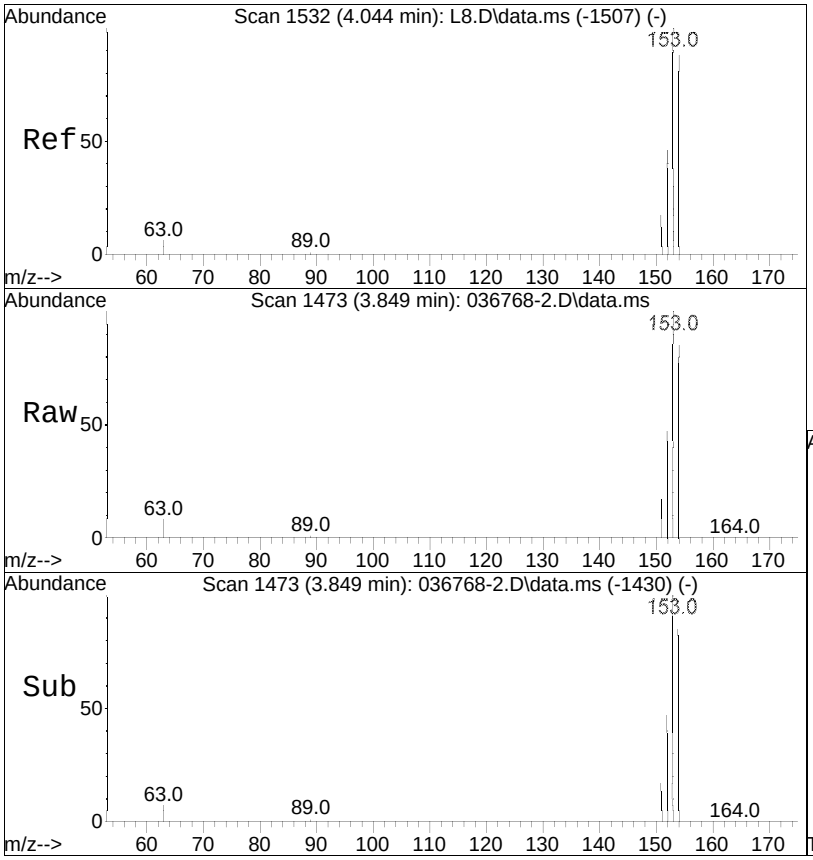


#16
2,6-Dinitrotoluene
Concen: 1273.43 ng/ml
RT: 3.718 min Scan# 1406
Delta R.T. 0.006 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:165 Resp: 92071

Ion	Ratio	Lower	Upper
165	100		
89	51.4	37.8	56.8
63	53.5	36.9	55.3

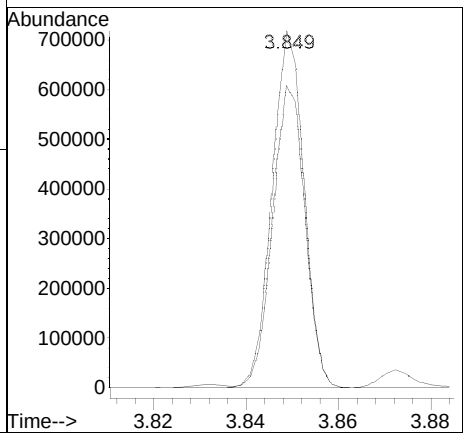


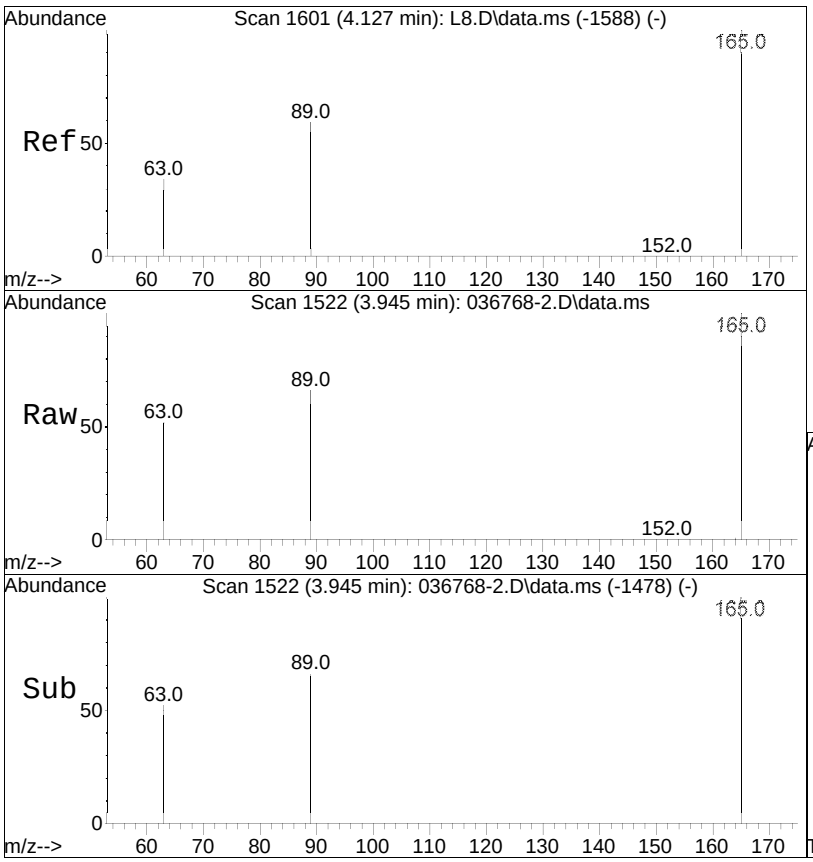


#19
Acenaphthene
Concen: 1159.15 ng/ml
RT: 3.849 min Scan# 1473
Delta R.T. 0.004 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:153 Resp: 342722

Ion	Ratio	Lower	Upper
153	100		
154	85.7	73.1	109.7

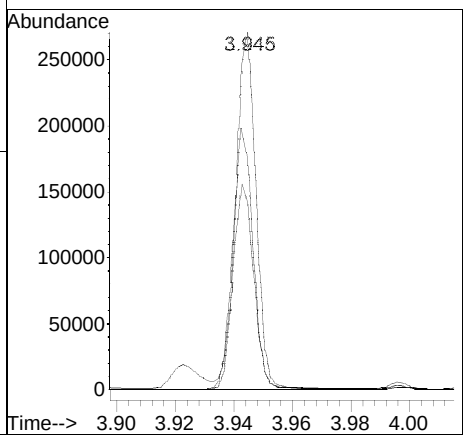


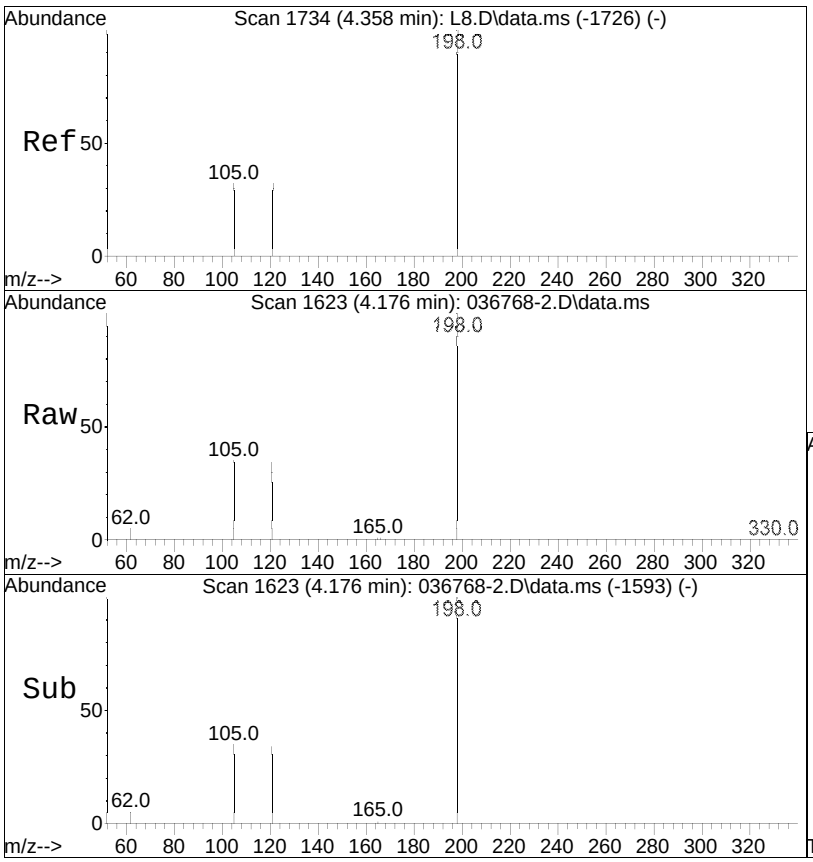


#20
2,4-Dinitrotoluene
Concen: 1351.43 ng/ml
RT: 3.945 min Scan# 1522
Delta R.T. 0.006 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:165 Resp: 127107

Ion	Ratio	Lower	Upper
165	100		
89	74.5	48.7	73.1#
63	61.0	28.6	42.8#

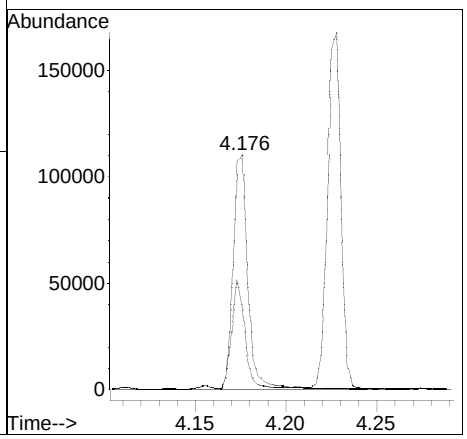


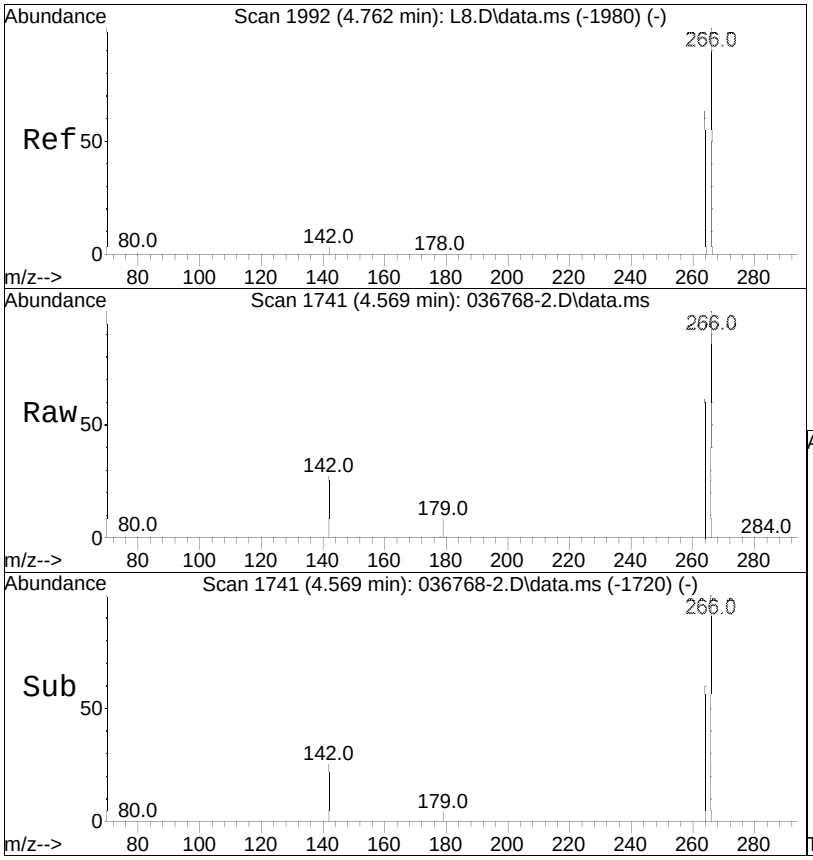


#24
4,6-Dinitro-o-cresol
Concen: 1053.12 ng/ml
RT: 4.176 min Scan# 1623
Delta R.T. 0.006 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:198 Resp: 63156

Ion	Ratio	Lower	Upper
198	100		
105	41.1	30.6	45.8

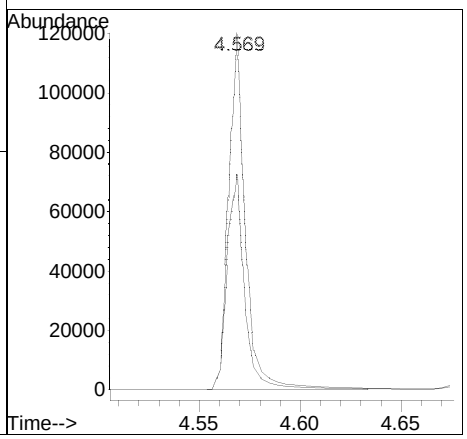


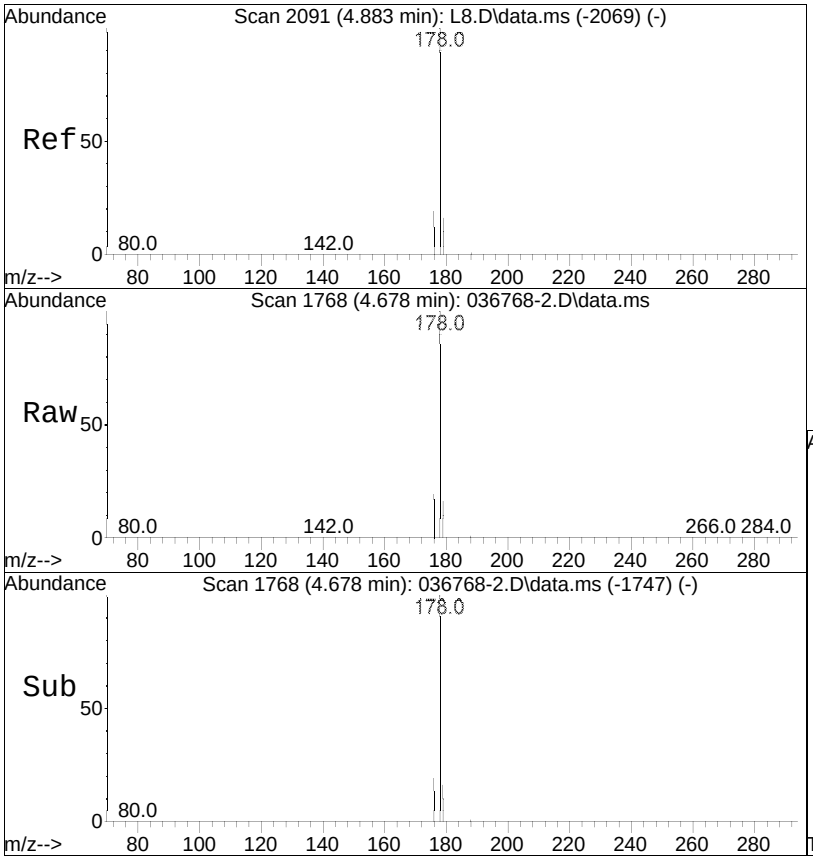


#26
Pentachlorophenol
Concen: 1244.44 ng/ml
RT: 4.569 min Scan# 1741
Delta R.T. 0.005 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:266 Resp: 68578

Ion	Ratio	Lower	Upper
266	100		
264	64.0	50.8	76.2

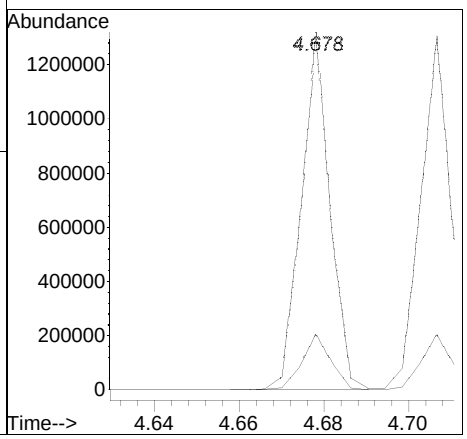


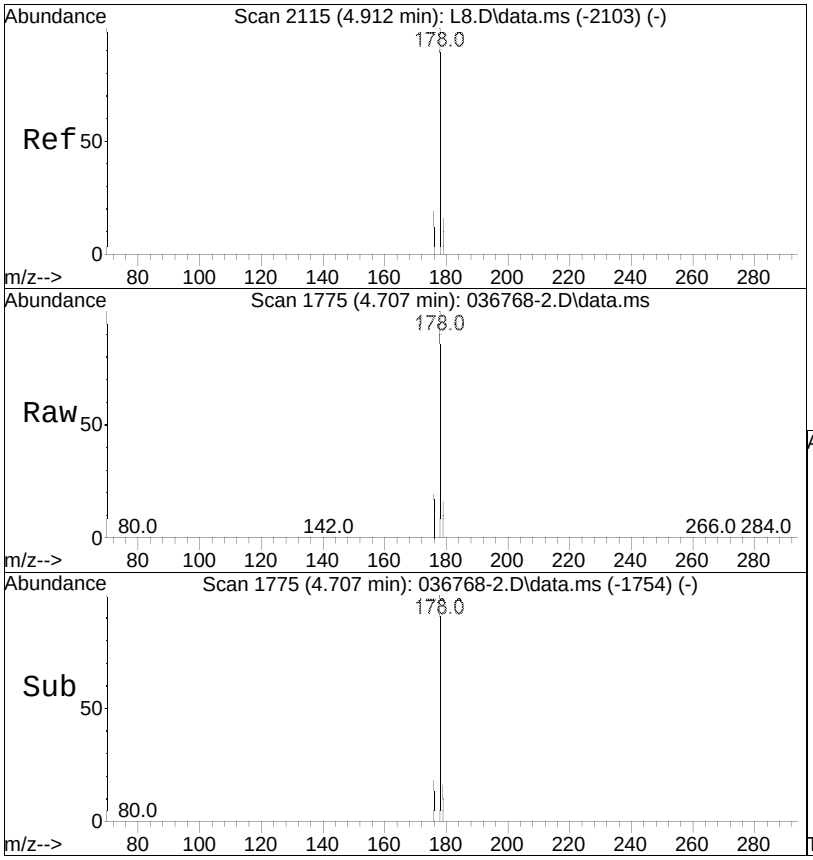


#27
Phenanthrene
Concen: 1156.60 ng/ml
RT: 4.678 min Scan# 1768
Delta R.T. 0.005 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:178 Resp: 616980

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.8	19.2

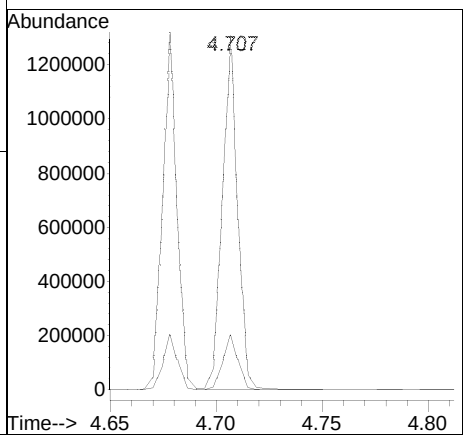


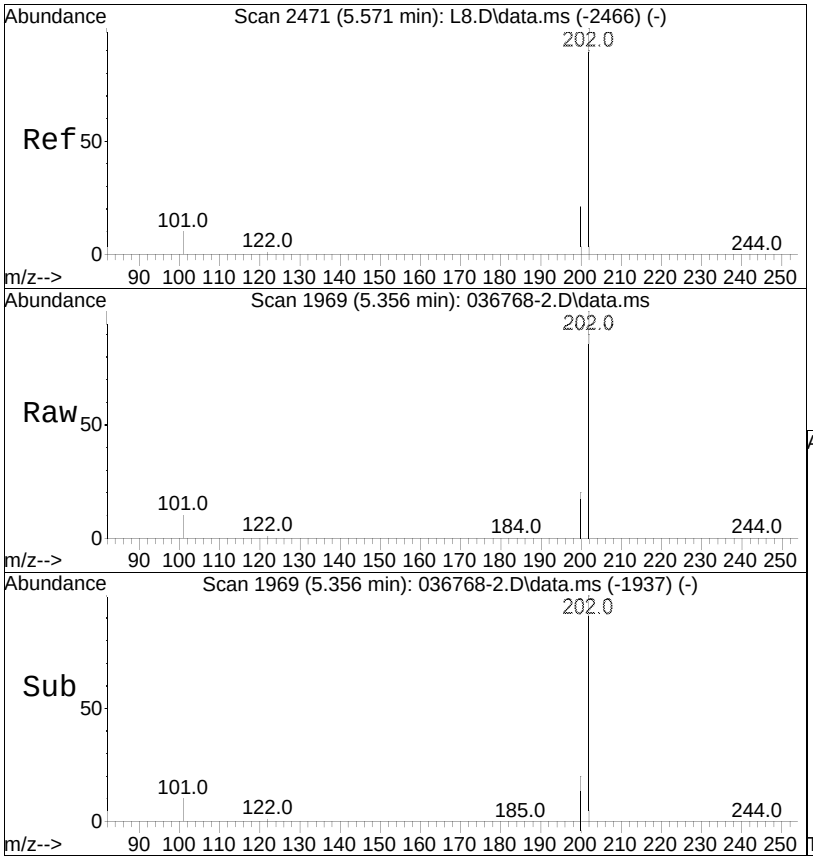


#28
Anthracene
Concen: 1219.94 ng/ml
RT: 4.707 min Scan# 1775
Delta R.T. 0.005 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:178 Resp: 652464

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.6	18.8

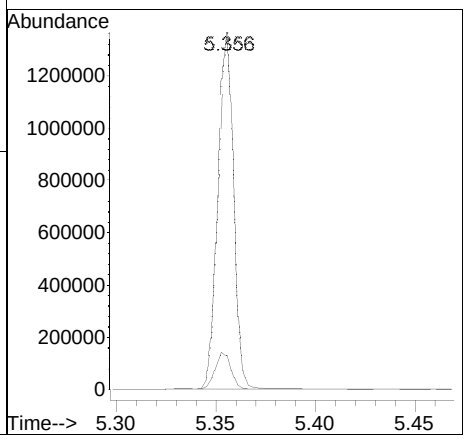


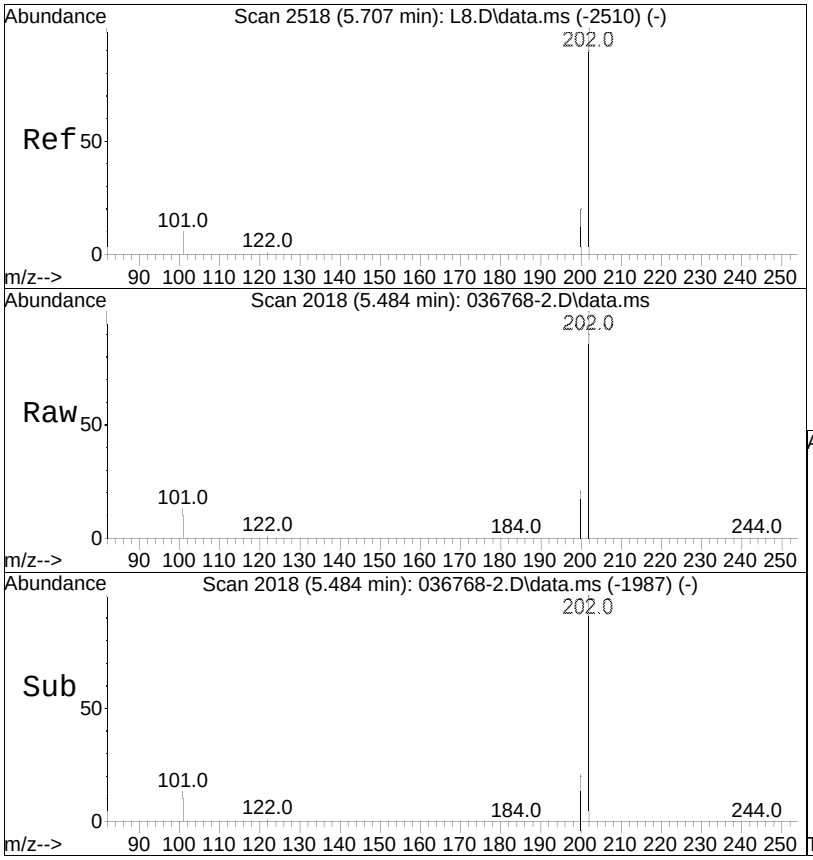


#29
Fluoranthene
Concen: 1108.47 ng/ml
RT: 5.356 min Scan# 1969
Delta R.T. 0.004 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:202 Resp: 739781

Ion	Ratio	Lower	Upper
202	100		
101	10.7	8.2	12.2

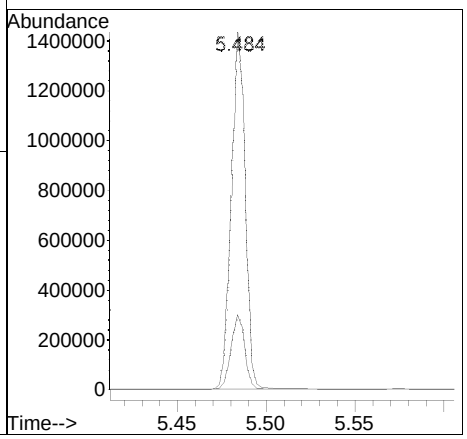


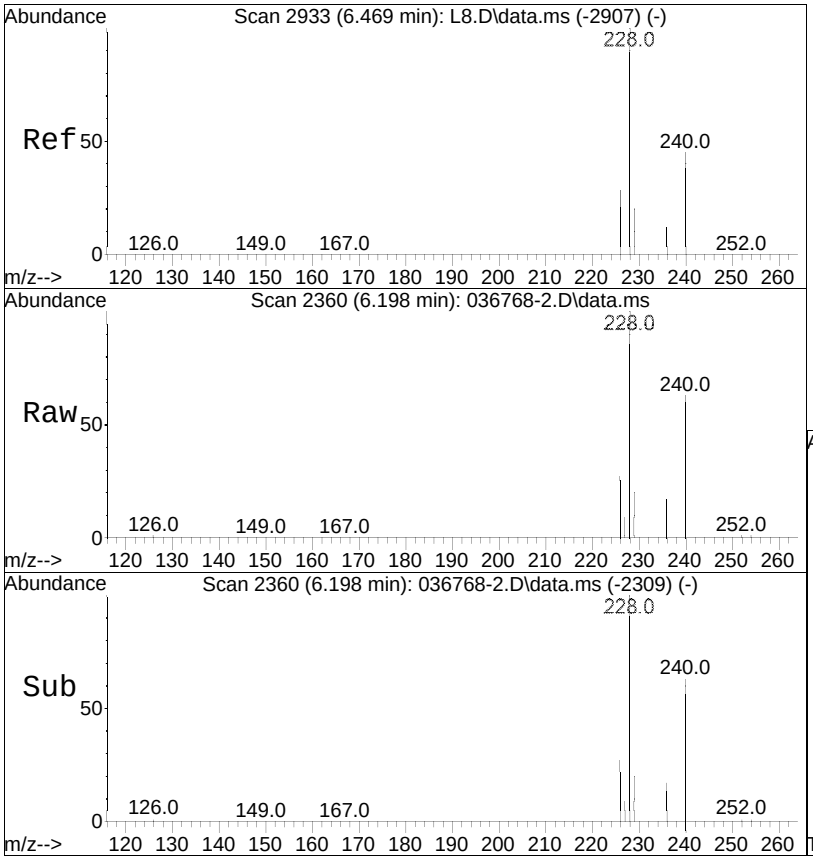


#30
Pyrene
Concen: 1111.72 ng/ml
RT: 5.484 min Scan# 2018
Delta R.T. 0.001 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:202 Resp: 765832

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3

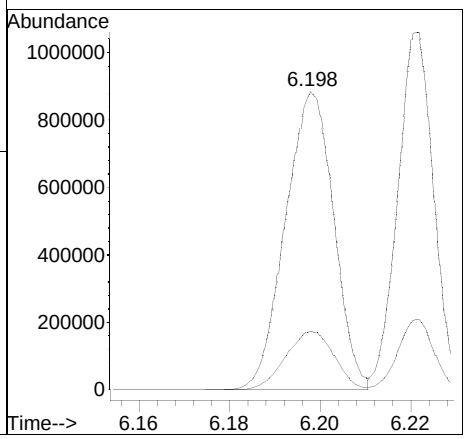


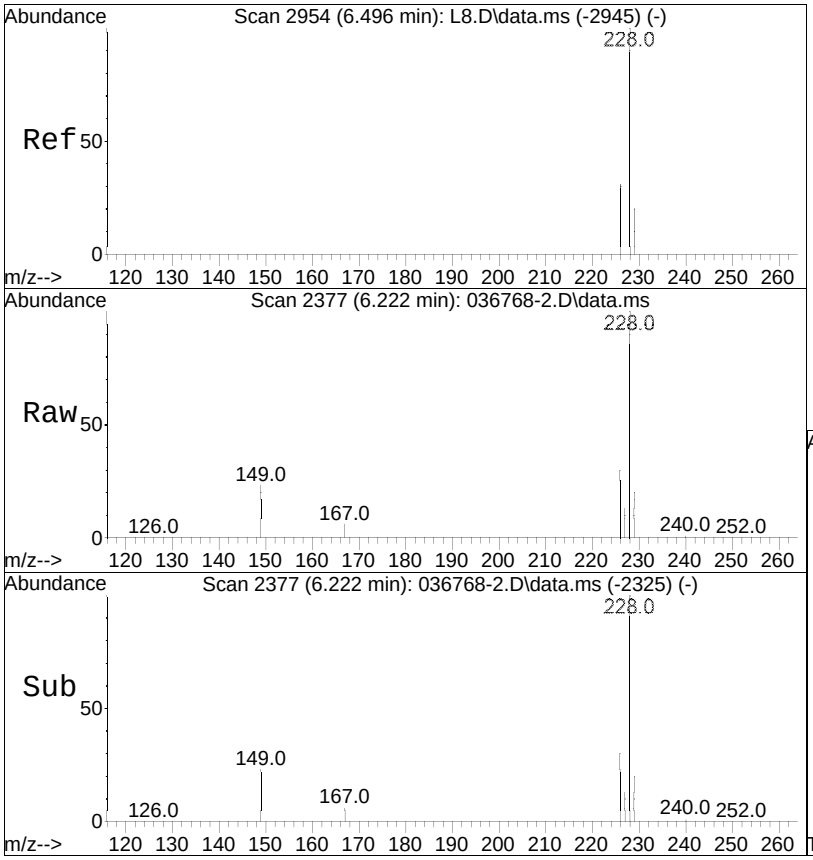


#34
Benzo[a]anthracene
Concen: 1219.35 ng/ml
RT: 6.198 min Scan# 2360
Delta R.T. -0.008 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:228 Resp: 654597

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.9	23.9

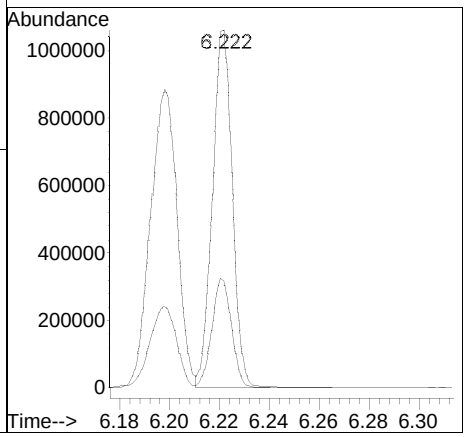


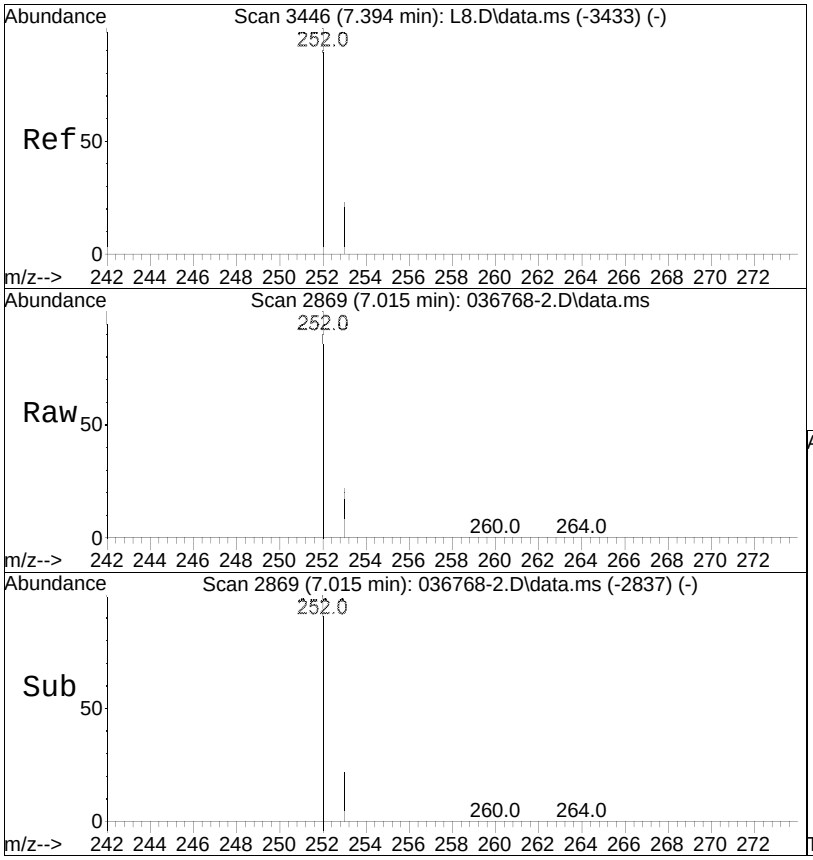


#36
Chrysene
Concen: 1124.15 ng/ml
RT: 6.222 min Scan# 2377
Delta R.T. -0.007 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:228 Resp: 587414

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.4	36.6

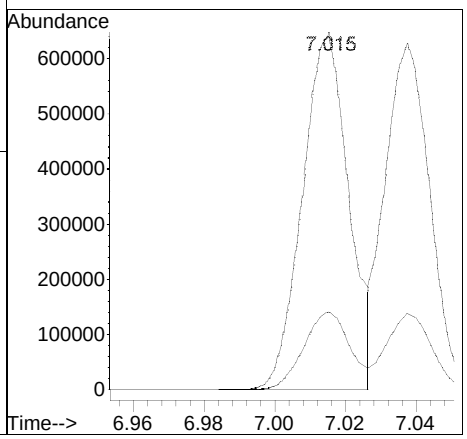


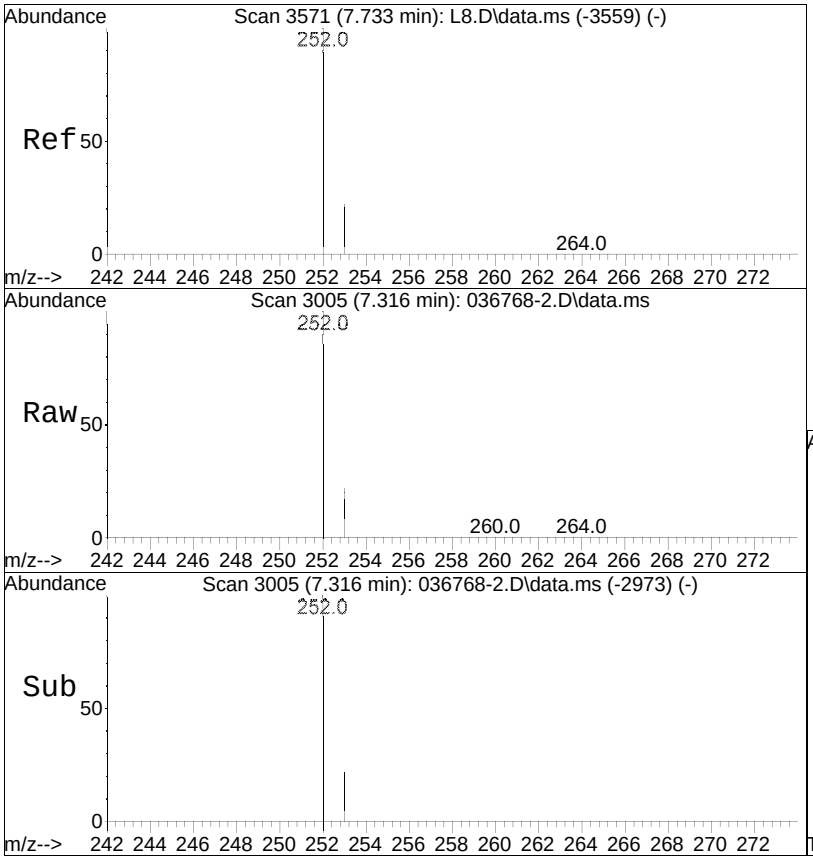


#39
Benzo[b]fluoranthene
Concen: 1251.59 ng/ml
RT: 7.015 min Scan# 2869
Delta R.T. -0.009 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:252 Resp: 589658

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.1	27.1

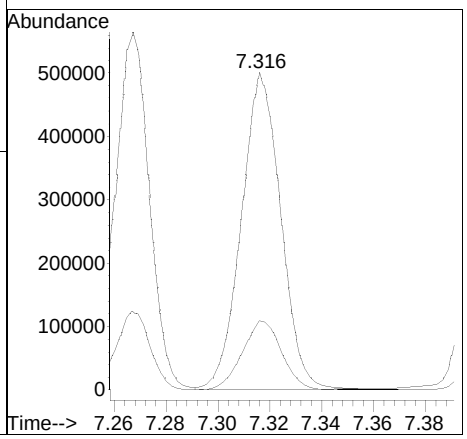


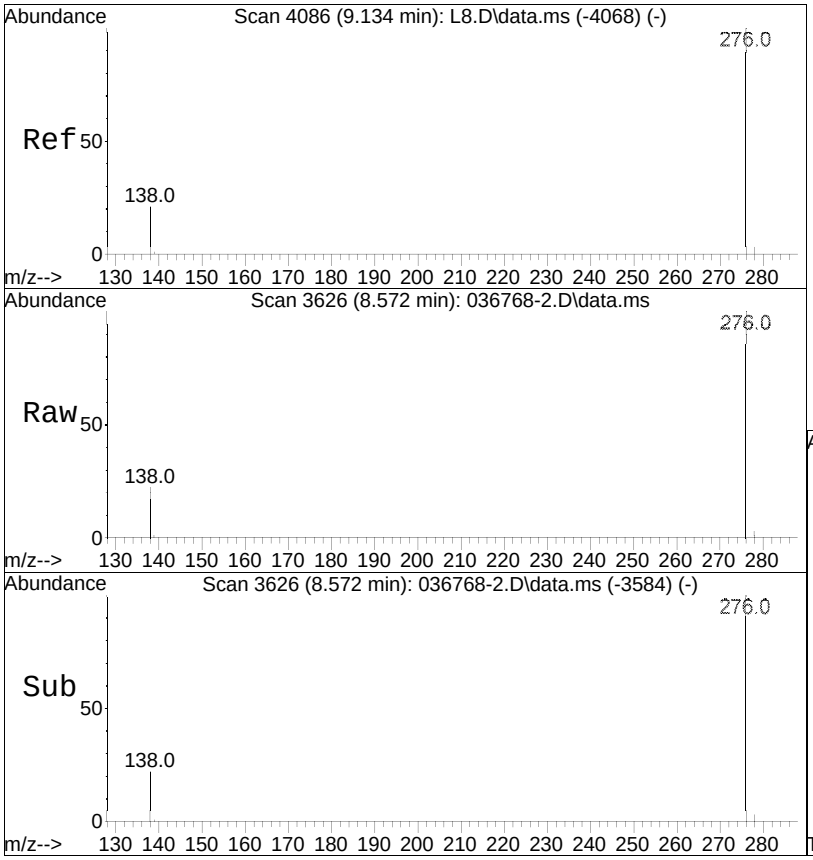


#41
Benzo[a]pyrene
Concen: 1303.80 ng/ml
RT: 7.316 min Scan# 3005
Delta R.T. -0.009 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:252 Resp: 521210

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9

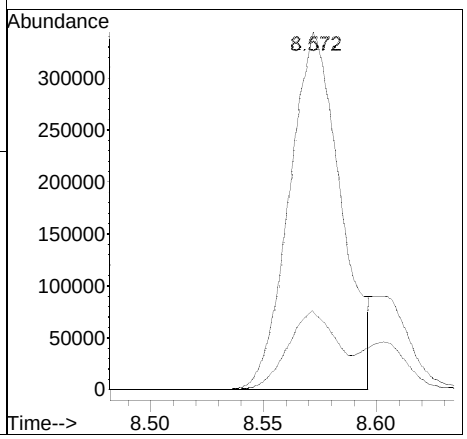


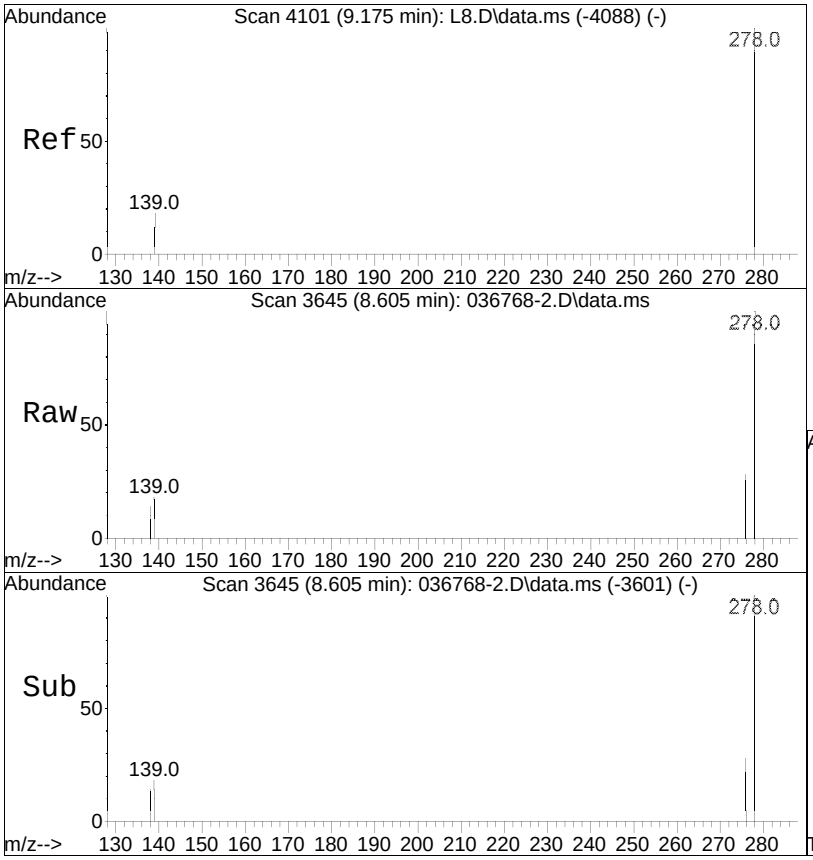


#42
Indeno[1,2,3-cd]pyrene
Concen: 1392.48 ng/ml
RT: 8.572 min Scan# 3626
Delta R.T. -0.007 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:276 Resp: 538918

Ion	Ratio	Lower	Upper
276	100		
138	21.1	16.9	25.3

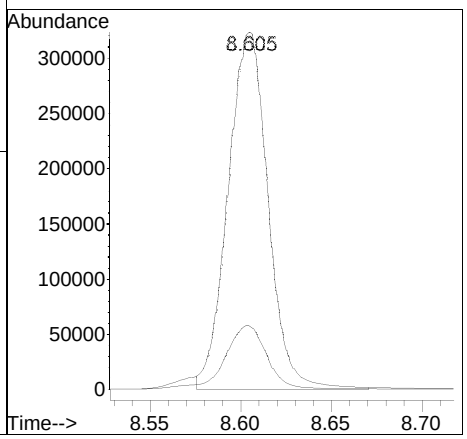


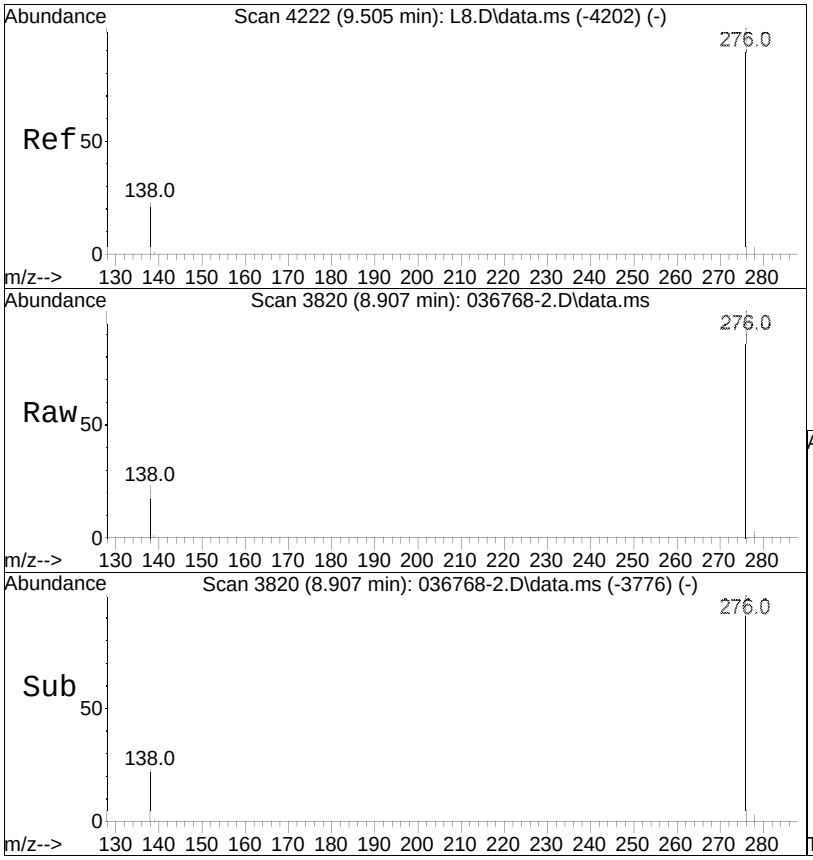


#43
Dibenzo[a,h]anthracene
Concen: 1374.85 ng/ml M6
RT: 8.605 min Scan# 3645
Delta R.T. -0.003 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:278 Resp: 493611

Ion	Ratio	Lower	Upper
278	100		
139	18.8	14.6	22.0

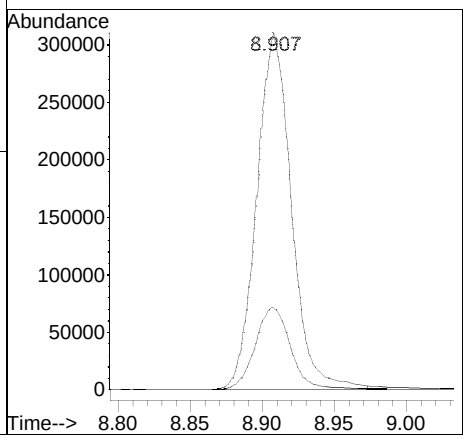




#44
Benzo[g,h,i]perylene
Concen: 1388.55 ng/ml
RT: 8.907 min Scan# 3820
Delta R.T. -0.003 min
Lab File: 036768-2.D
Acq: 05 Mar 2025 11:47 am

Tgt Ion:276 Resp: 511482

Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.6	28.0

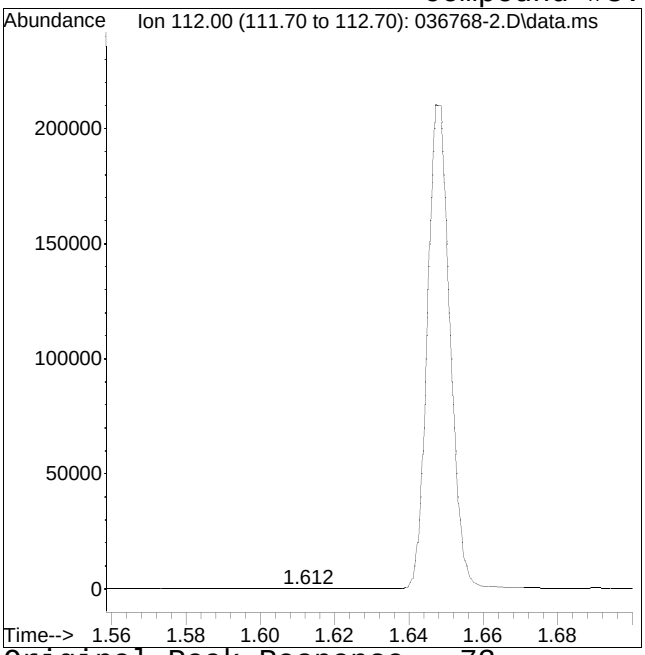


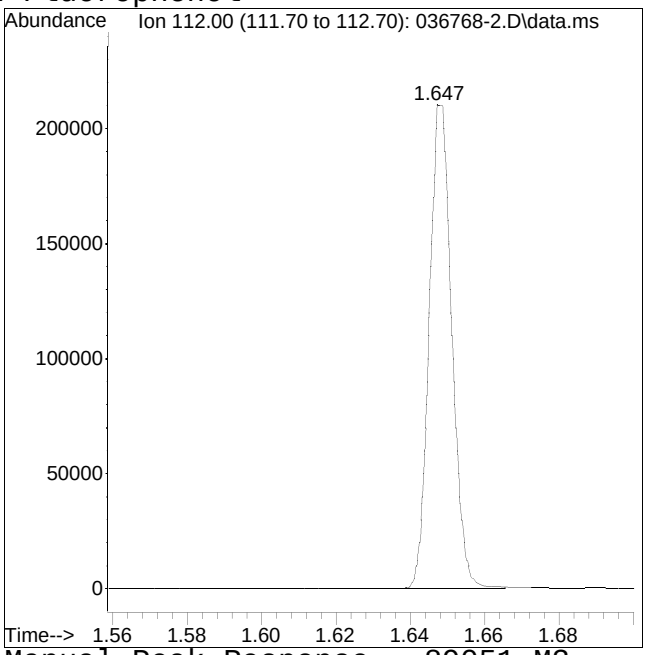
Manual Integration Report

Data Path : I:\8270SIM\sv119\250305RVTQ
Data File : 036768-2.D
Date Inj'd : 3/5/2025 11:47 am
Sample : WG2036768-2,32,,kmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:kmh
Instrument : SV119
Quant Date : 3/5/2025 12:01 pm

Compound #3: 2-Fluorophenol





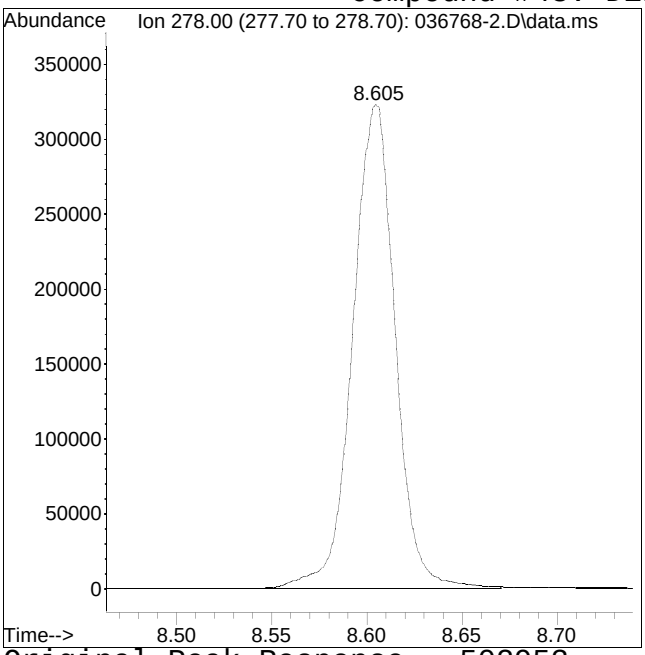
Original Peak Response = 73 Manual Peak Response = 89051 M3

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

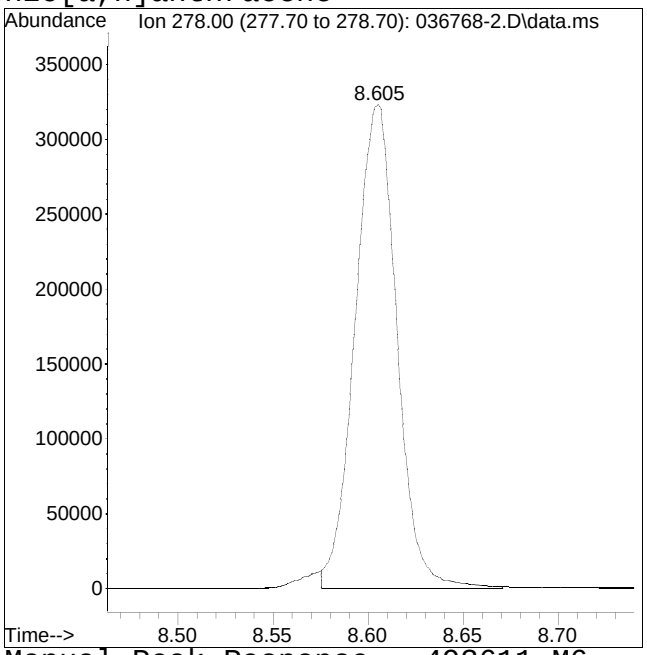
Manual Integration Report

Data Path : I:\8270SIM\sv119\250305RVTQMethod : SIM-RVT_241229_sv119.M
Data File : 036768-2.D Operator : sv119:kmh
Date Inj'd : 3/5/2025 11:47 am Instrument : SV119
Sample : WG2036768-2,32,,kmh Quant Date : 3/5/2025 12:01 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 502953



Manual Peak Response = 493611 M6

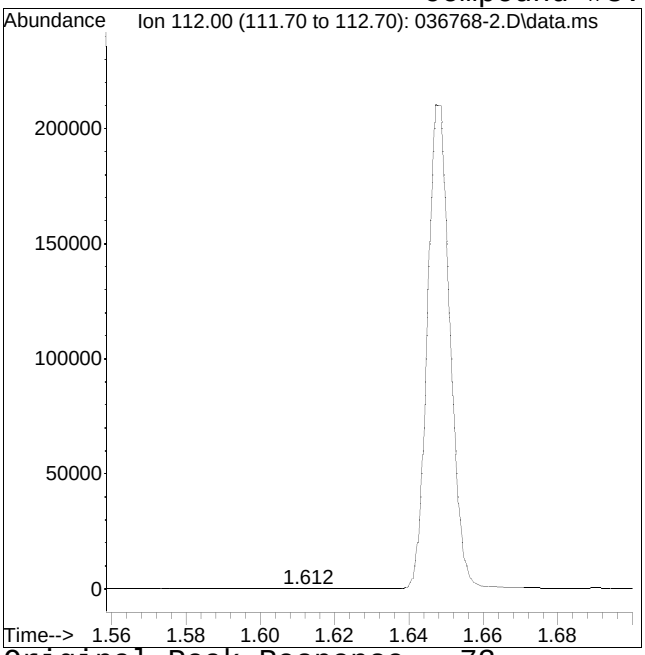
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

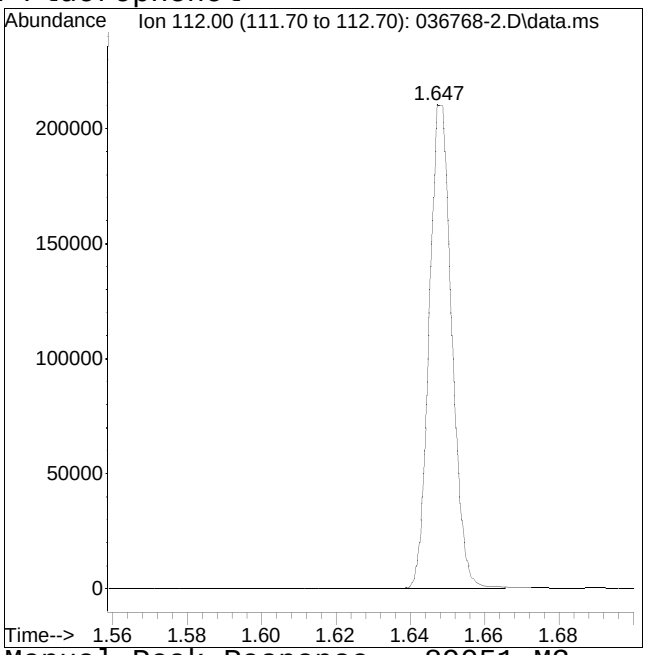
Data Path : I:\8270SIM\sv119\250305RVTQ
Data File : 036768-2.D
Date Inj'd : 3/5/2025 11:47 am
Sample : WG2036768-2,32,,kmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:kmh
Instrument : SV119
Quant Date : 3/5/2025 12:01 pm

Compound #3: 2-Fluorophenol



Original Peak Response = 73



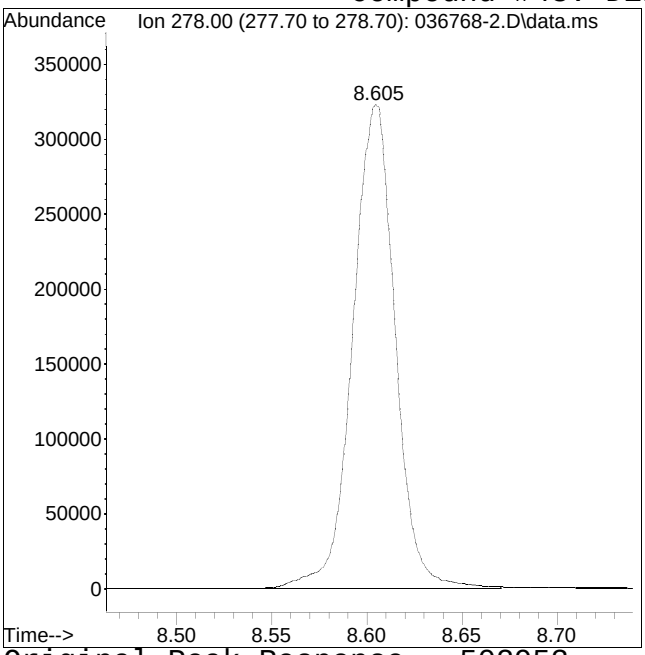
Manual Peak Response = 89051 M3

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

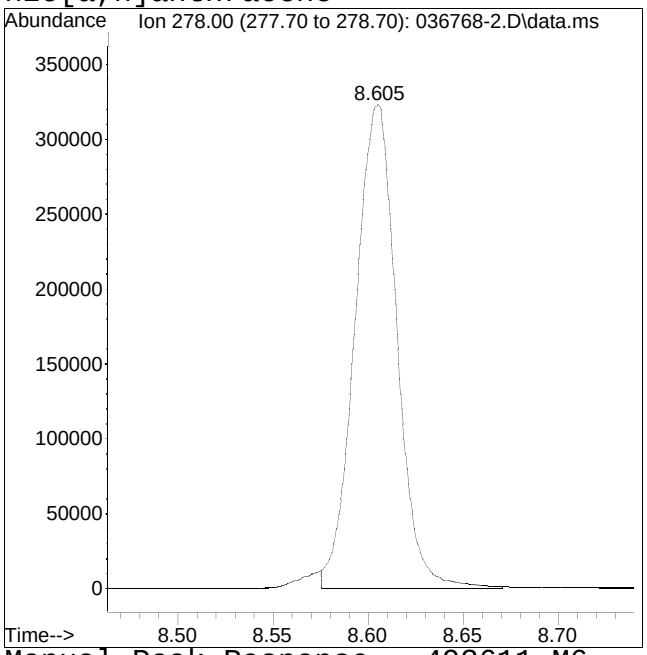
Manual Integration Report

Data Path : I:\8270SIM\sv119\250305RVTQMethod : SIM-RVT_241229_sv119.M
Data File : 036768-2.D Operator : sv119:kmh
Date Inj'd : 3/5/2025 11:47 am Instrument : SV119
Sample : WG2036768-2,32,,kmh Quant Date : 3/5/2025 12:01 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 502953



Manual Peak Response = 493611 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-3.D
Acq On : 05 Mar 2025 12:04 pm
Operator : sv119:kmh
Sample : WG2036768-3,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 05 12:24:22 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.208	152	259646	4000.000	ng/ml	0.00
Standard Area 1 = 358448			Recovery = 72.44%			
9) Naphthalene-d8	2.864	136	1088951	4000.000	ng/ml	0.00
Standard Area 1 = 1402776			Recovery = 77.63%			
18) Acenaphthene-d10	3.833	164	673665	4000.000	ng/ml	0.00
Standard Area 1 = 821052			Recovery = 82.05%			
23) Phenanthrene-d10	4.666	188	1434411	4000.000	ng/ml	0.00
Standard Area 1 = 1709135			Recovery = 83.93%			
33) Chrysene-d12	6.205	240	1197177	4000.000	ng/ml	0.00
Standard Area 1 = 1551369			Recovery = 77.17%			
38) Perylene-d12	7.380	264	1123631	4000.000	ng/ml	-0.01
Standard Area 1 = 1505949			Recovery = 74.61%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.643	112	84285	1211.530	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 60.58%			
4) Phenol-d6	2.031	99	79713	918.030	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.90%			
8) Nitrobenzene-d5	2.488	82	65341	776.011	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.60%			
14) 2-Fluorobiphenyl	3.454	172	179551	676.185	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 67.62%			
22) 2,4,6-Tribromophenol	4.277	330	53415	1816.710	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 90.84%			
32) 4-Terphenyl-d14	5.576	244	235559	661.973	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.20%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.212	74	51296	No Calib	#	
5) Bis(2-chloroethyl)ether	2.074	93	126814	1582.323	ng/ml	90
6) n-nitrosodi-n-propylamine	2.407	70	101774	1894.810	ng/ml	100
7) Hexachloroethane	2.461	117	49599	1473.789	ng/ml	97
10) Naphthalene	2.874	128	424616	1398.106	ng/ml	100
11) Hexachlorobutadiene	2.945	225	66674	1247.471	ng/ml	100
12) 2-Methylnaphthalene	3.251	142	287925	1356.633	ng/ml	99
13) 1-Methylnaphthalene	3.306	142	294396	1506.483	ng/ml	99
15) 2-Chloronaphthalene	3.521	162	325522	1485.079	ng/ml#	86
16) 2,6-Dinitrotoluene	3.718	165	93060	1722.767	ng/ml	91
17) Acenaphthylene	3.751	152	561081	1652.894	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-3.D
Acq On : 05 Mar 2025 12:04 pm
Operator : sv119:kmh
Sample : WG2036768-3,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 05 12:24:22 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250305RVT\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.851	153	346977	1544.328	ng/ml	94
20) 2,4-Dinitrotoluene	3.945	165	129492	1811.804	ng/ml#	72
21) Fluorene	4.139	166	427439	1655.874	ng/ml	97
24) 4,6-Dinitro-o-cresol	4.176	198	62870	1326.116	ng/ml	95
25) Hexachlorobenzene	4.455	284	128630	1521.326	ng/ml	94
26) Pentachlorophenol	4.569	266	66938	1522.223	ng/ml	100
27) Phenanthrene	4.678	178	655471	1562.878	ng/ml	99
28) Anthracene	4.707	178	683265	1624.910	ng/ml	100
29) Fluoranthene	5.356	202	799747	1524.164	ng/ml	98
30) Pyrene	5.484	202	809506	1494.652	ng/ml	100
31) Benzidine	5.434	184	22710	No Calib #		
34) Benzo[a]anthracene	6.197	228	690818	1633.929	ng/ml	100
35) 3,3'-Dichlorobenzidine	6.184	252	257205	1690.442	ng/ml	99
36) Chrysene	6.222	228	629135	1526.288	ng/ml	100
37) Bis(2-ethylhexyl)phtha...	6.218	149	484557	2266.006	ng/ml	98
39) Benzo[b]fluoranthene	7.016	252	603869	1621.598	ng/ml	99
40) Benzo[k]fluoranthene	7.040	252	599120	1631.464	ng/ml	97
41) Benzo[a]pyrene	7.316	252	555758	1758.817	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.572	276	572340	1870.937	ng/ml	99
43) Dibenzo[a,h]anthracene	8.602	278	526327M6	1854.651	ng/ml	
44) Benzo[g,h,i]perylene	8.909	276	543536	1866.795	ng/ml	98

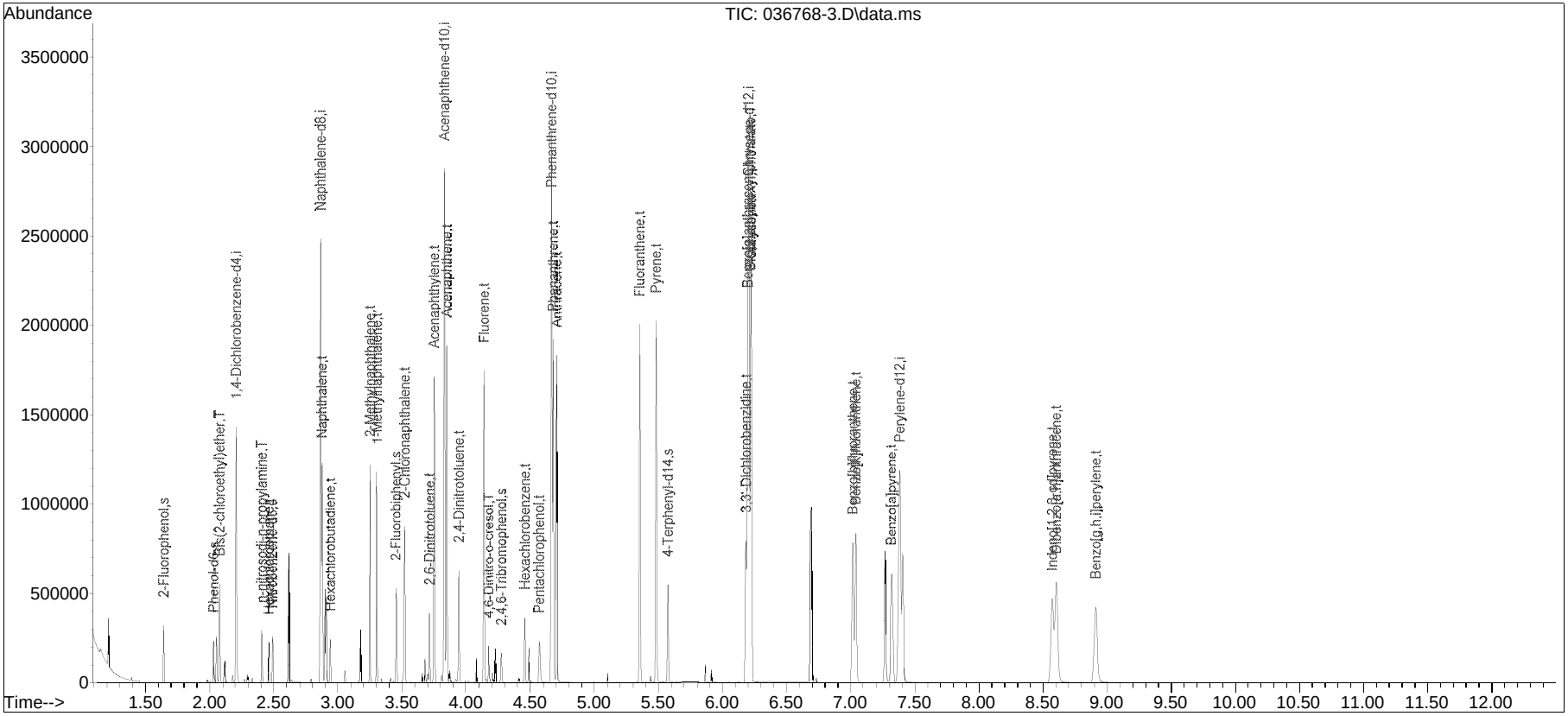
(#) = qualifier out of range (m) = manual integration (+) = signals summed

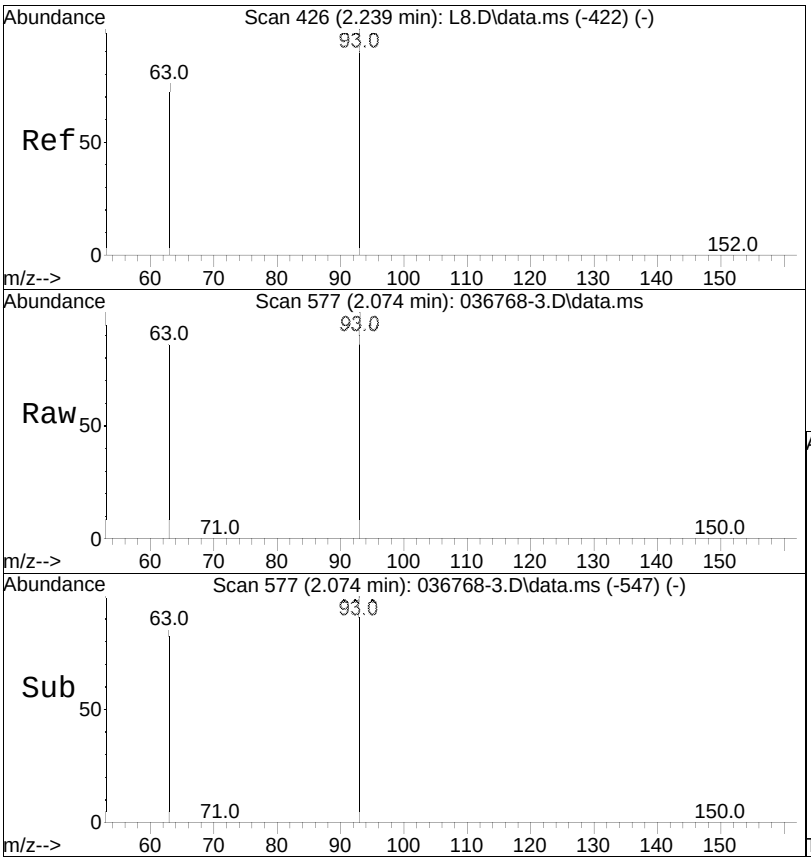
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250305RVT\
Data File : 036768-3.D
Acq On : 05 Mar 2025 12:04 pm
Operator : sv119:kmh
Sample : WG2036768-3,32,,kmh
Misc : WG2036764,WG2036768,ical21826
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 05 12:24:22 2025
Quant Method : I:\8270sim\sv119\250305RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 05 06:44:16 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0305.D•

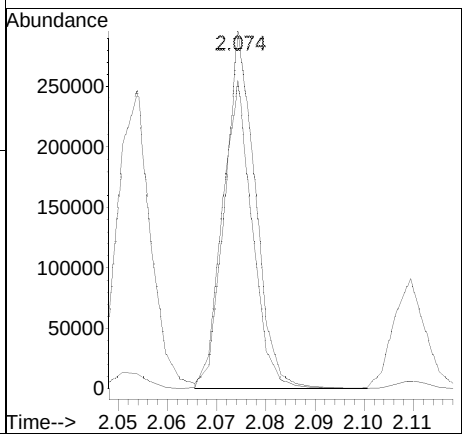


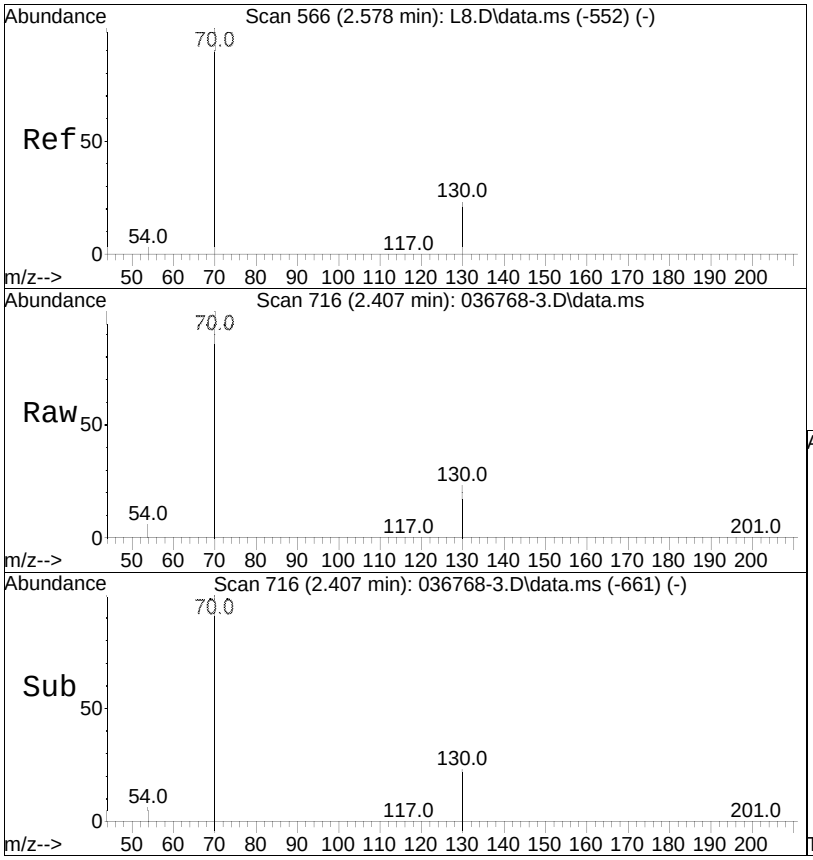


#5
Bis(2-chloroethyl)ether
Concen: 1582.32 ng/ml
RT: 2.074 min Scan# 577
Delta R.T. 0.009 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion: 93 Resp: 126814

Ion	Ratio	Lower	Upper
93	100		
63	85.7	61.7	92.5

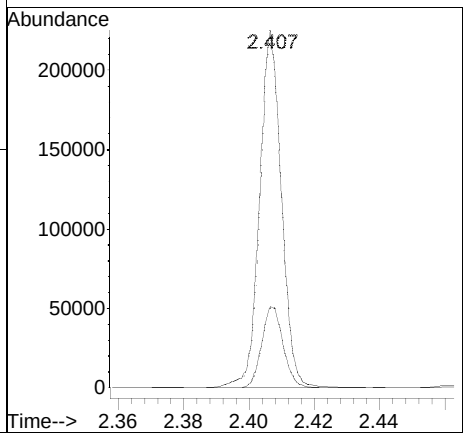


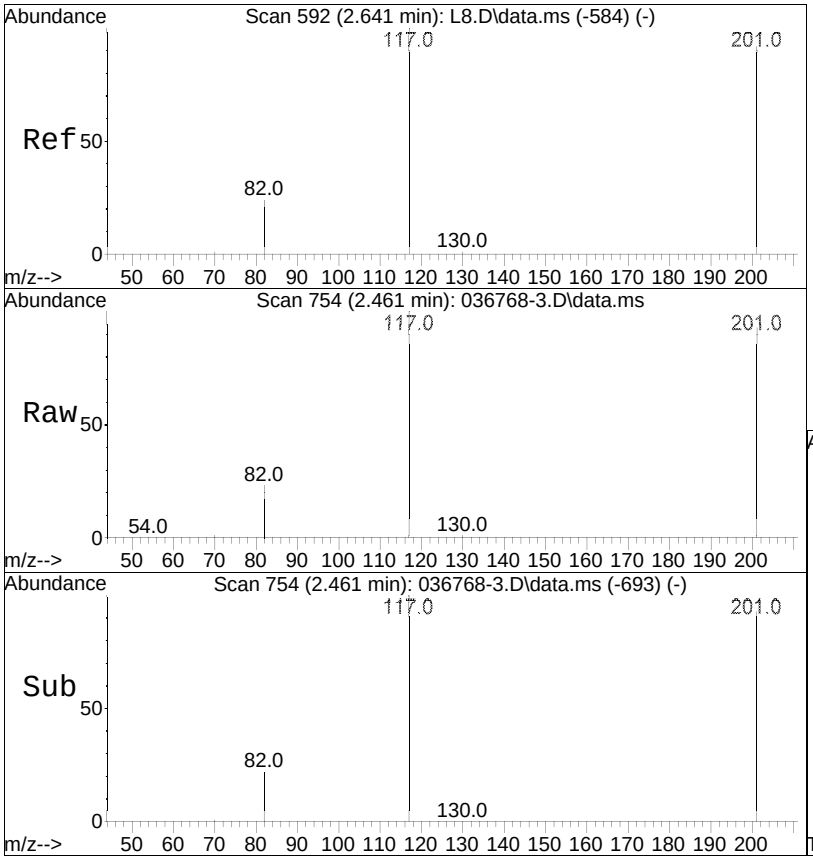


#6
n-nitrosodi-n-propylamine
Concen: 1894.81 ng/ml
RT: 2.407 min Scan# 716
Delta R.T. 0.007 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion: 70 Resp: 101774

Ion	Ratio	Lower	Upper
70	100		
130	22.5	18.1	27.1

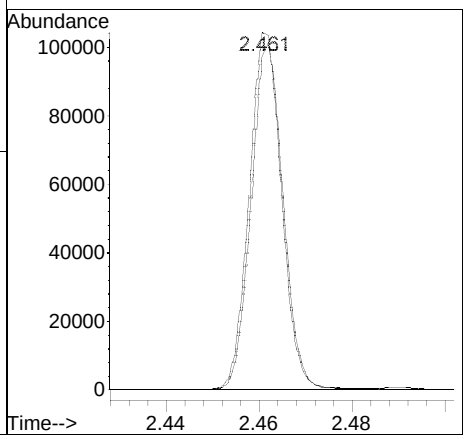


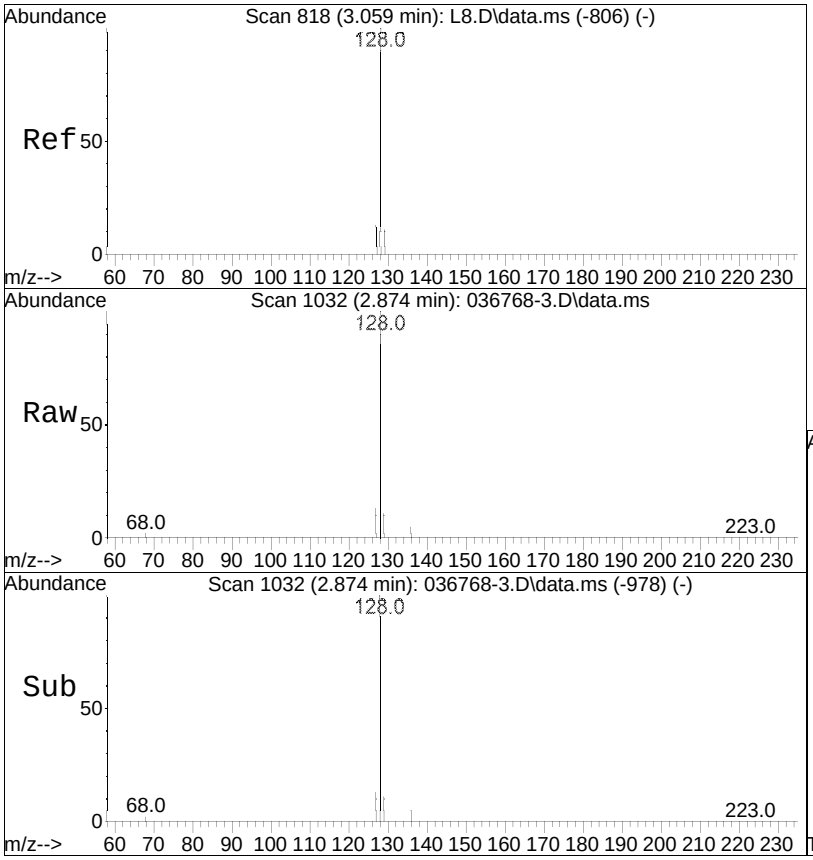


#7
Hexachloroethane
Concen: 1473.79 ng/ml
RT: 2.461 min Scan# 754
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:117 Resp: 49599

Ion	Ratio	Lower	Upper
117	100		
201	95.9	79.3	118.9

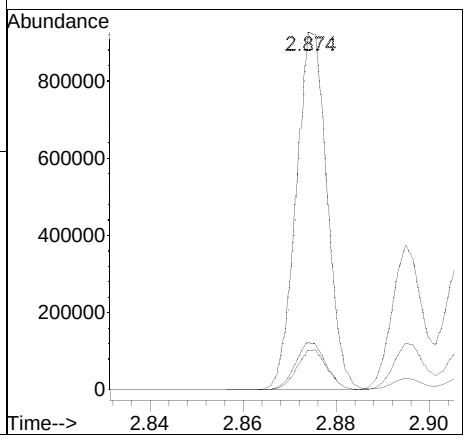


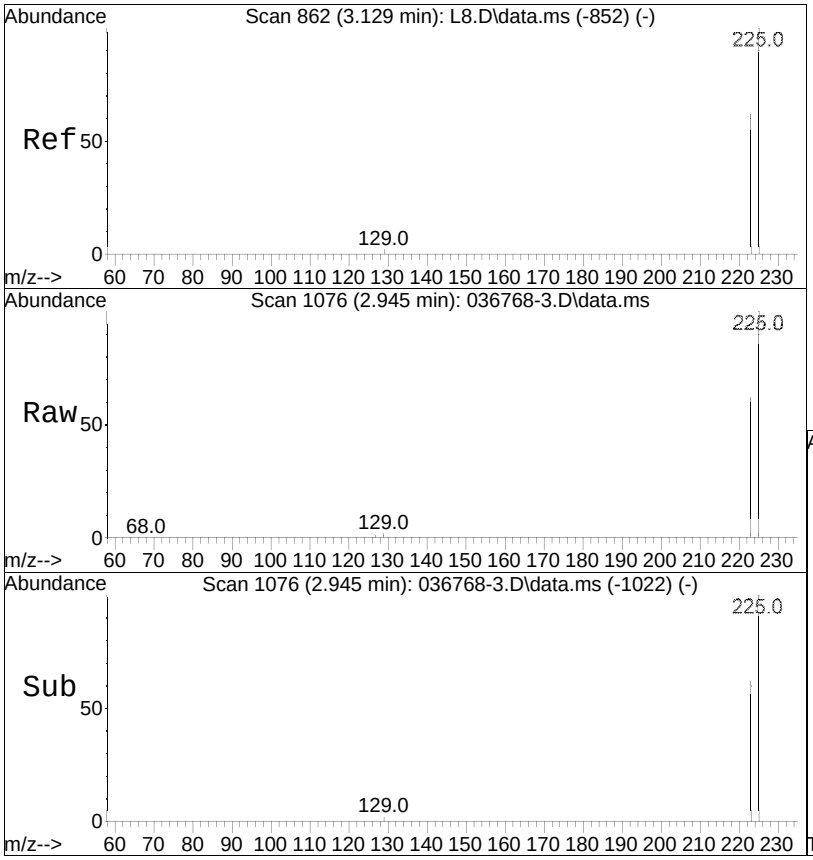


#10
Naphthalene
Concen: 1398.11 ng/ml
RT: 2.874 min Scan# 1032
Delta R.T. 0.007 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:128 Resp: 424616

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.3	10.5	15.7

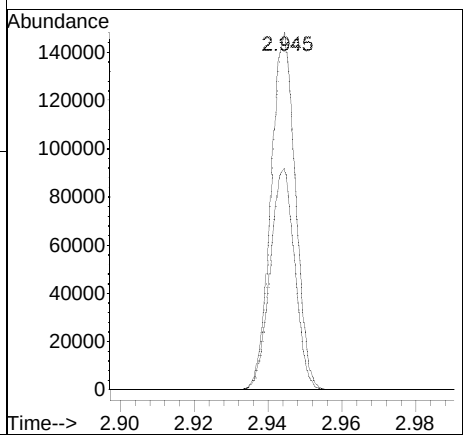


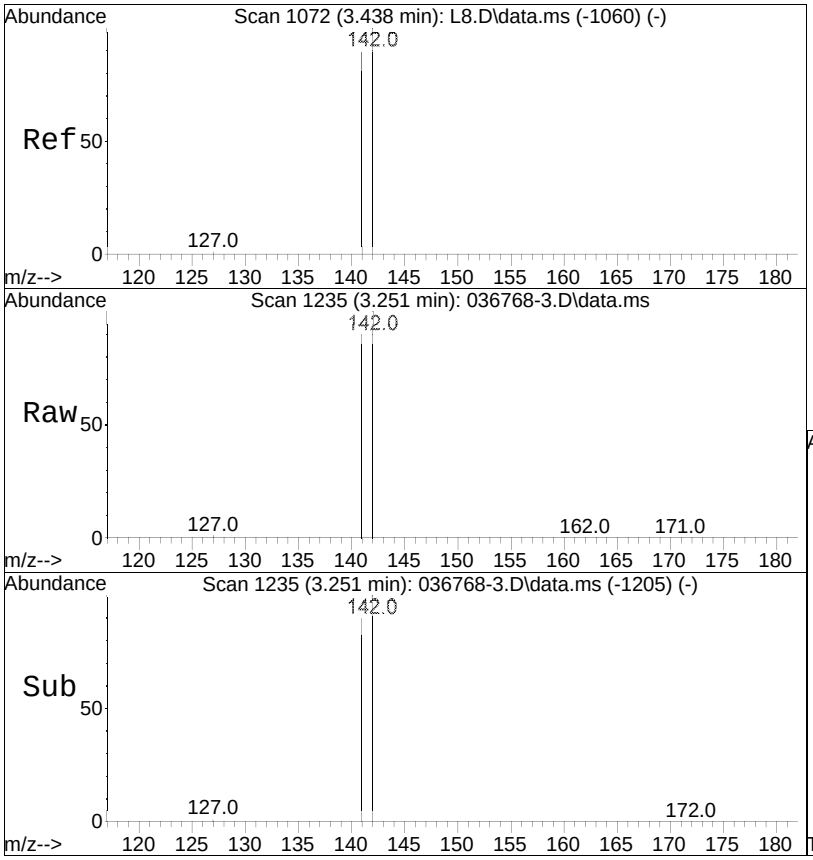


#11
Hexachlorobutadiene
Concen: 1247.47 ng/ml
RT: 2.945 min Scan# 1076
Delta R.T. 0.007 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:225 Resp: 66674

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6

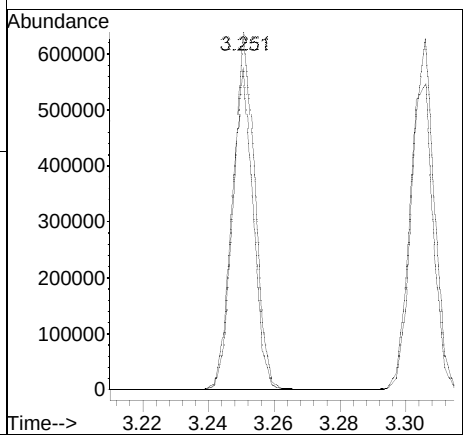


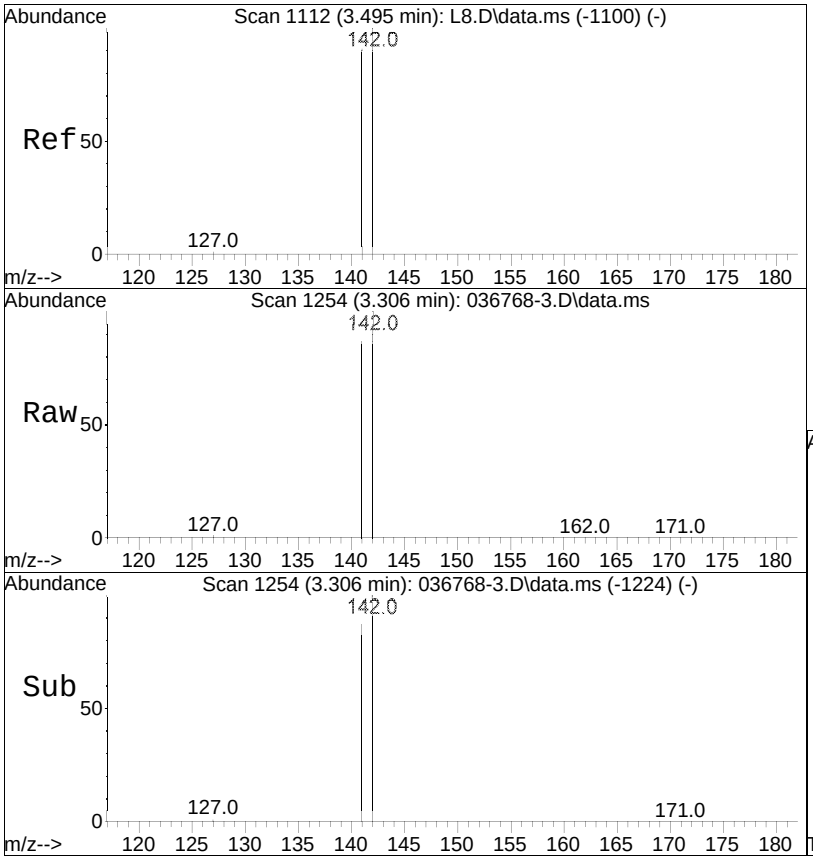


#12
2-Methylnaphthalene
Concen: 1356.63 ng/ml
RT: 3.251 min Scan# 1235
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:142 Resp: 287925

Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.3	106.9

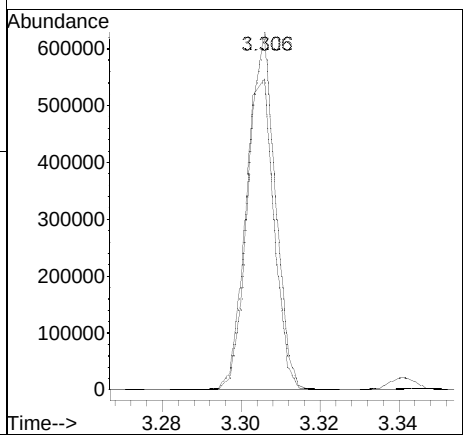


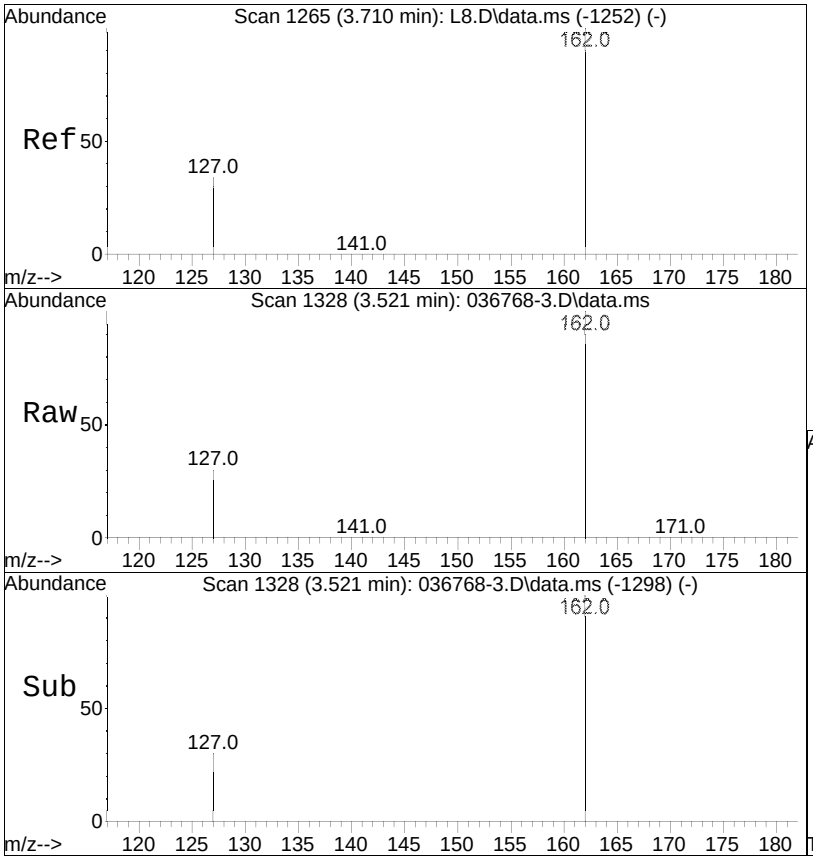


#13
1-Methylnaphthalene
Concen: 1506.48 ng/ml
RT: 3.306 min Scan# 1254
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:142 Resp: 294396

Ion	Ratio	Lower	Upper
142	100		
141	93.3	73.8	110.6

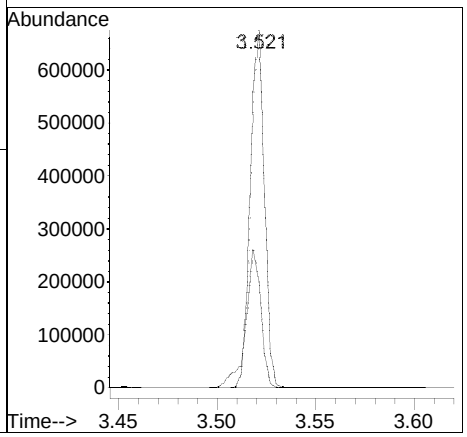


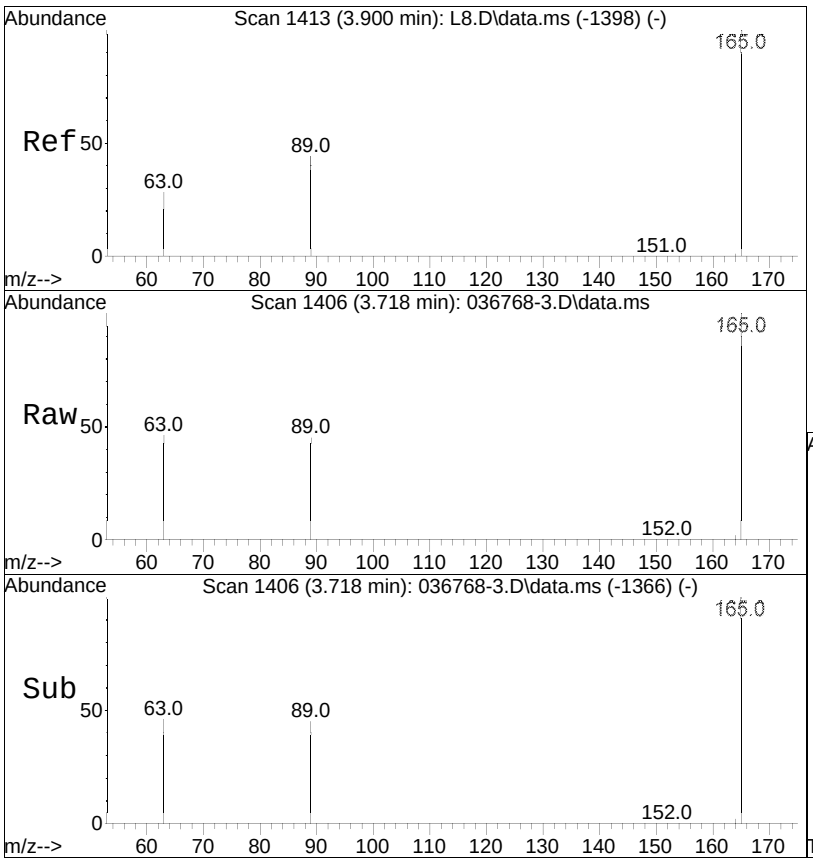


#15
2-Chloronaphthalene
Concen: 1485.08 ng/ml
RT: 3.521 min Scan# 1328
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:162 Resp: 325522

Ion	Ratio	Lower	Upper
162	100		
127	42.4	27.4	41.0#

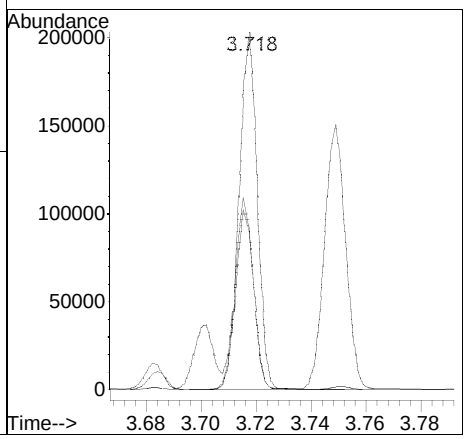


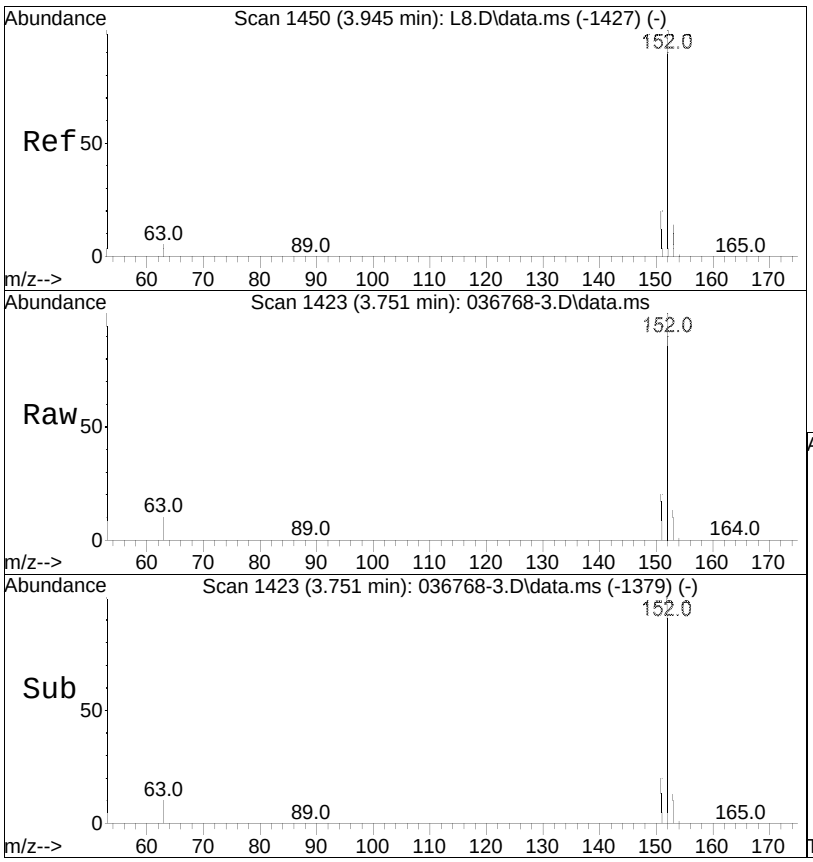


#16
2,6-Dinitrotoluene
Concen: 1722.77 ng/ml
RT: 3.718 min Scan# 1406
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:165 Resp: 93060

Ion	Ratio	Lower	Upper
165	100		
89	51.2	37.8	56.8
63	53.6	36.9	55.3

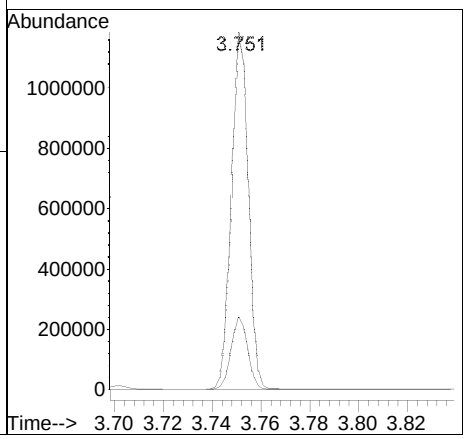


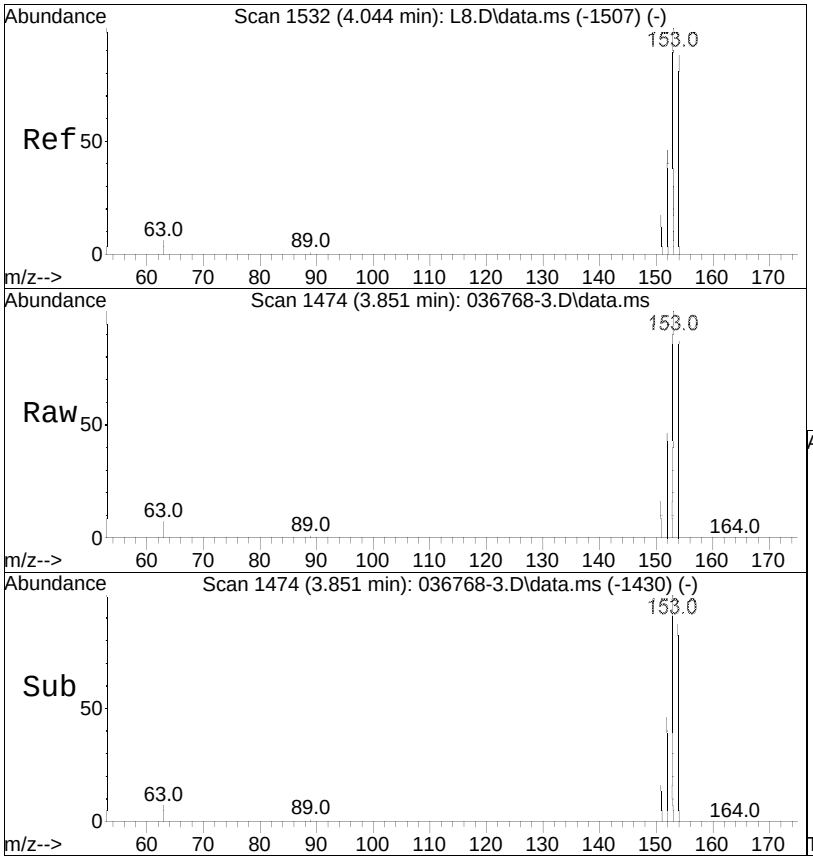


#17
Acenaphthylene
Concen: 1652.89 ng/ml
RT: 3.751 min Scan# 1423
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:152 Resp: 561081

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9

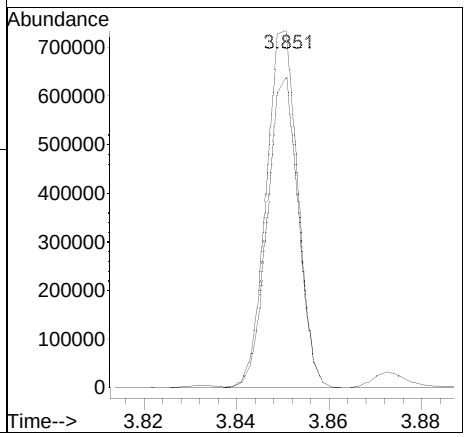


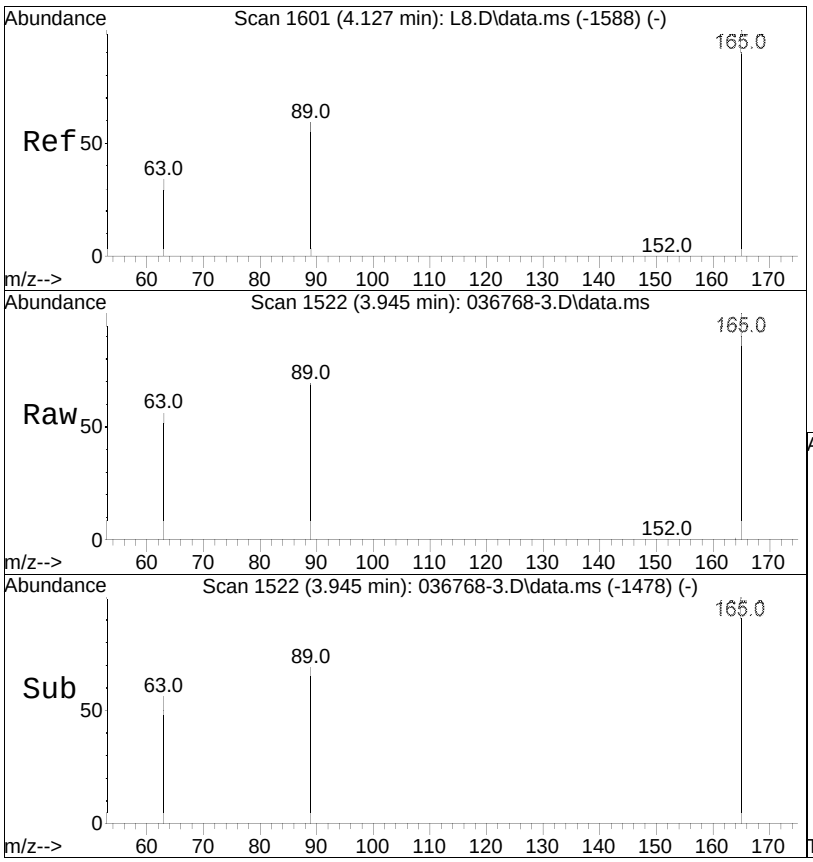


#19
Acenaphthene
Concen: 1544.33 ng/ml
RT: 3.851 min Scan# 1474
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:153 Resp: 346977

Ion	Ratio	Lower	Upper
153	100		
154	85.3	73.1	109.7

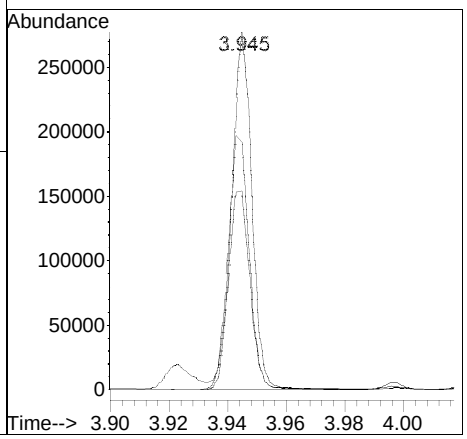


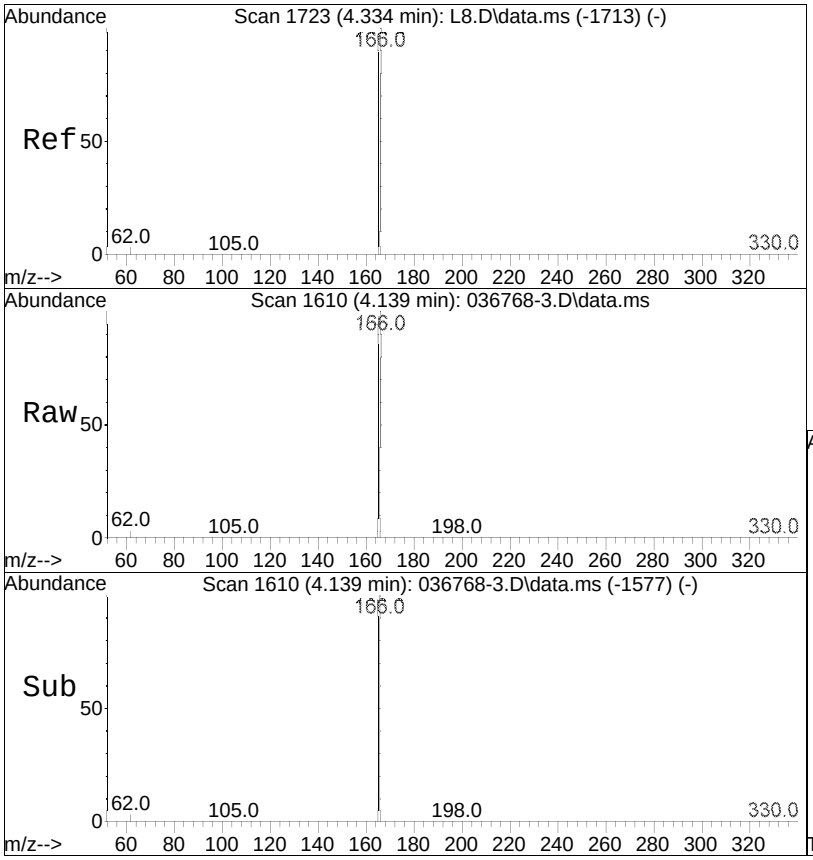


#20
2,4-Dinitrotoluene
Concen: 1811.80 ng/ml
RT: 3.945 min Scan# 1522
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:165 Resp: 129492

Ion	Ratio	Lower	Upper
165	100		
89	74.9	48.7	73.1#
63	61.4	28.6	42.8#

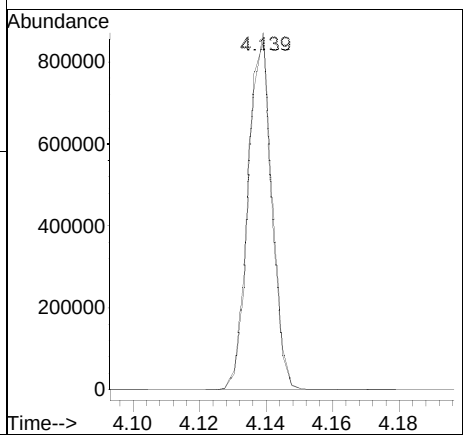


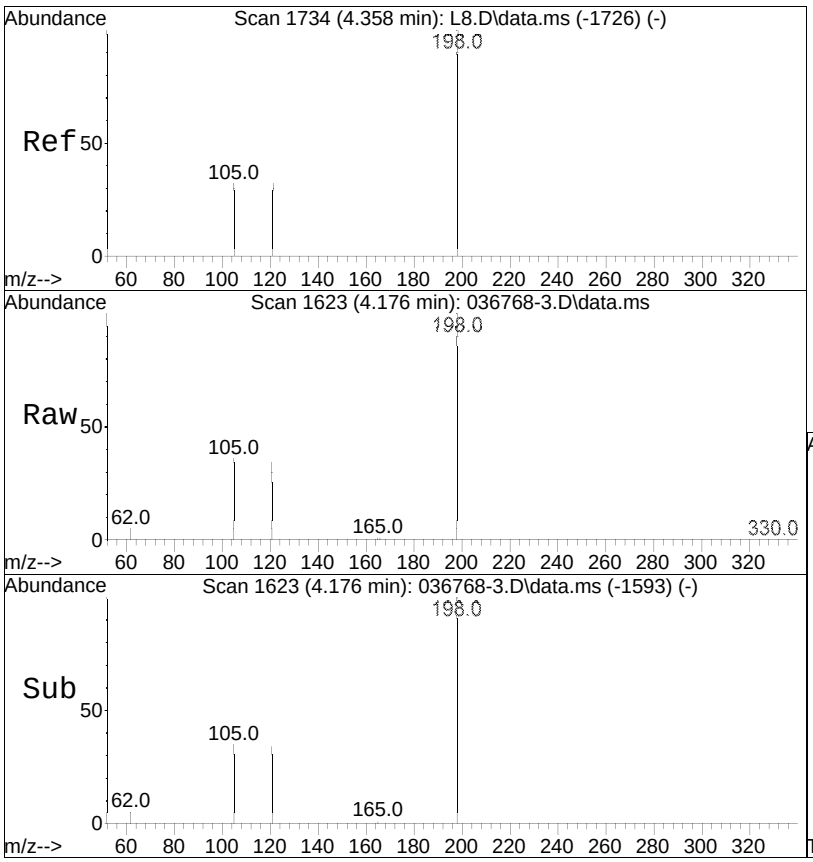


#21
Fluorene
Concen: 1655.87 ng/ml
RT: 4.139 min Scan# 1610
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:166 Resp: 427439

Ion	Ratio	Lower	Upper
166	100		
165	100.1	77.8	116.8

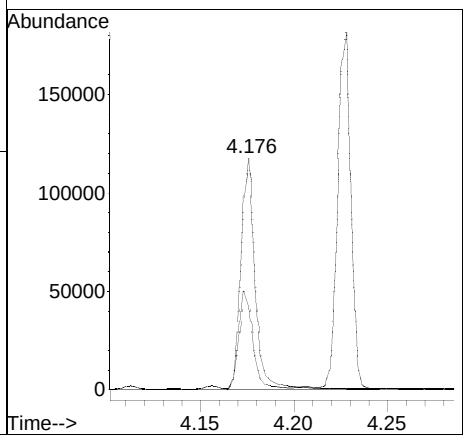


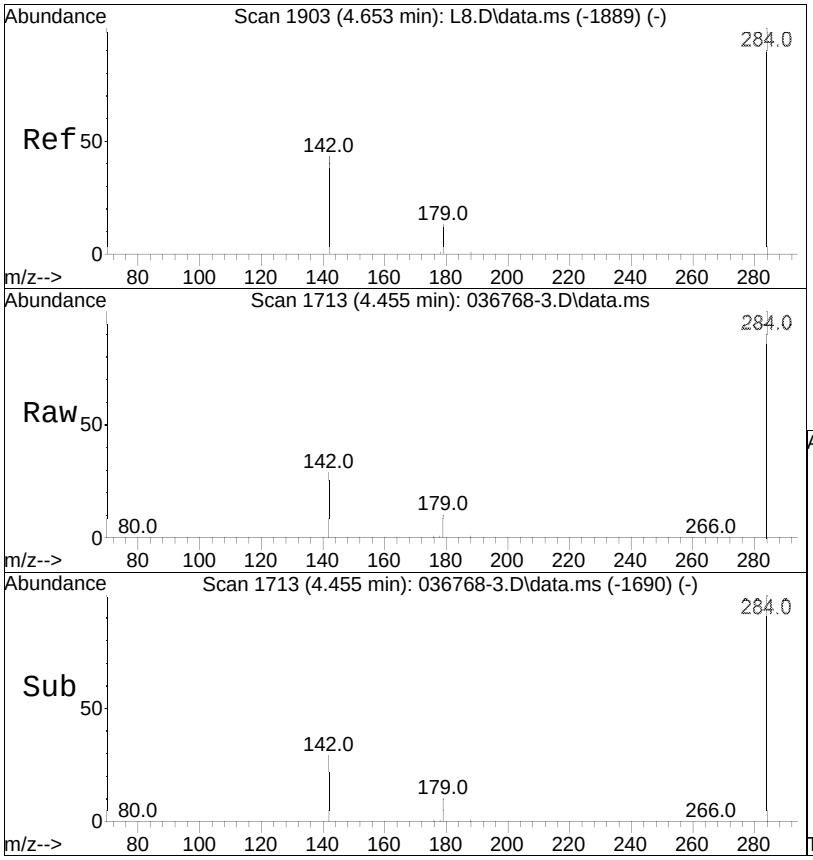


#24
4,6-Dinitro-o-cresol
Concen: 1326.12 ng/ml
RT: 4.176 min Scan# 1623
Delta R.T. 0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:198 Resp: 62870

Ion	Ratio	Lower	Upper
198	100		
105	41.0	30.6	45.8

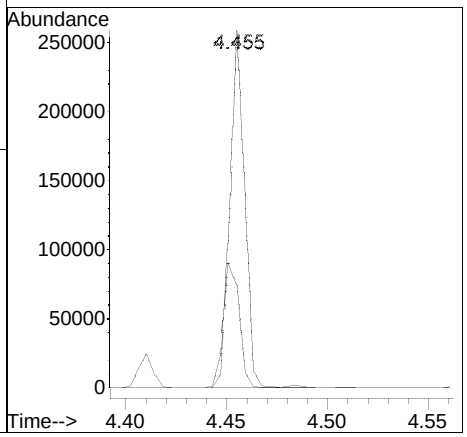


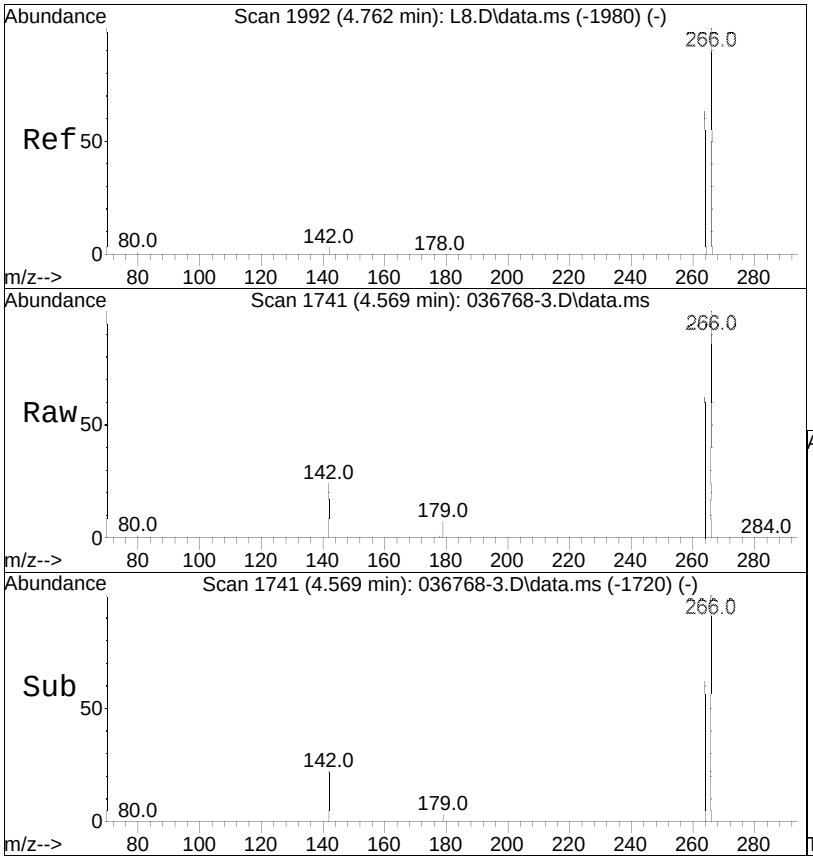


#25
Hexachlorobenzene
Concen: 1521.33 ng/ml
RT: 4.455 min Scan# 1713
Delta R.T. 0.005 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:284 Resp: 128630

Ion	Ratio	Lower	Upper
284	100		
142	38.4	33.8	50.6

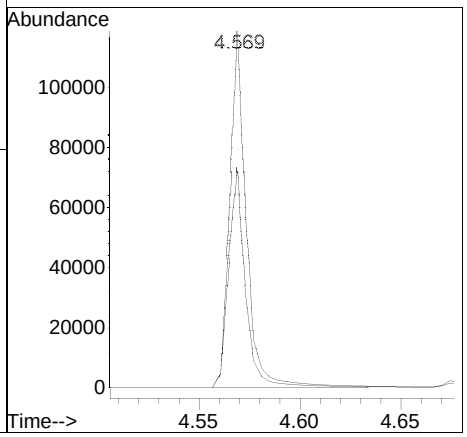


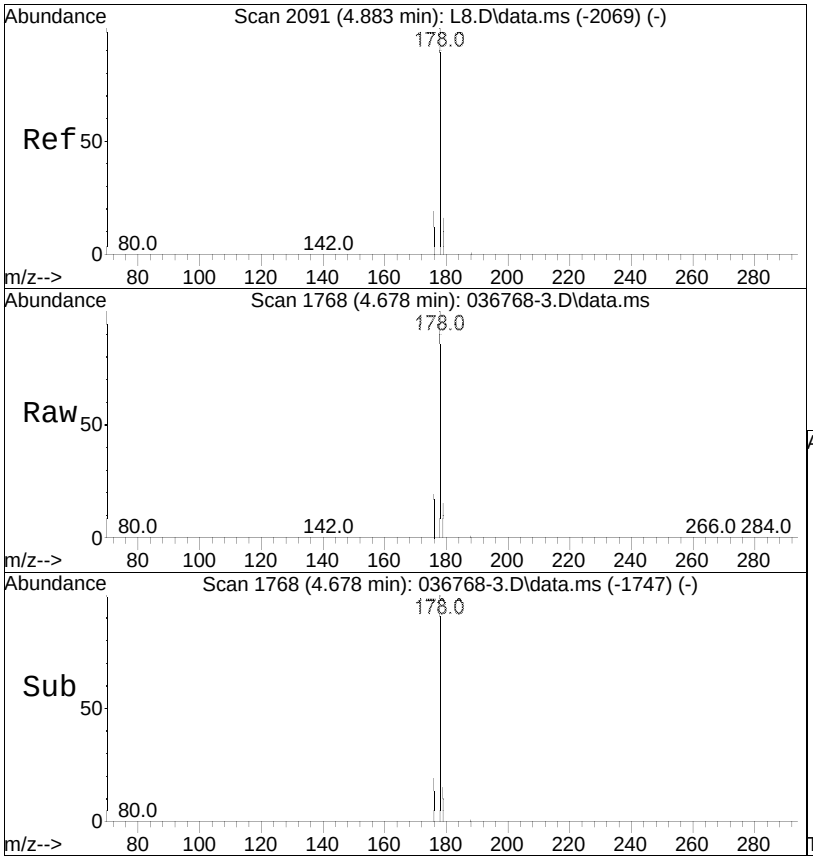


#26
Pentachlorophenol
Concen: 1522.22 ng/ml
RT: 4.569 min Scan# 1741
Delta R.T. 0.005 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:266 Resp: 66938

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.8	76.2

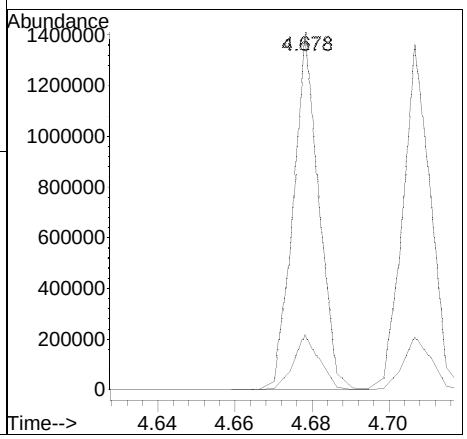


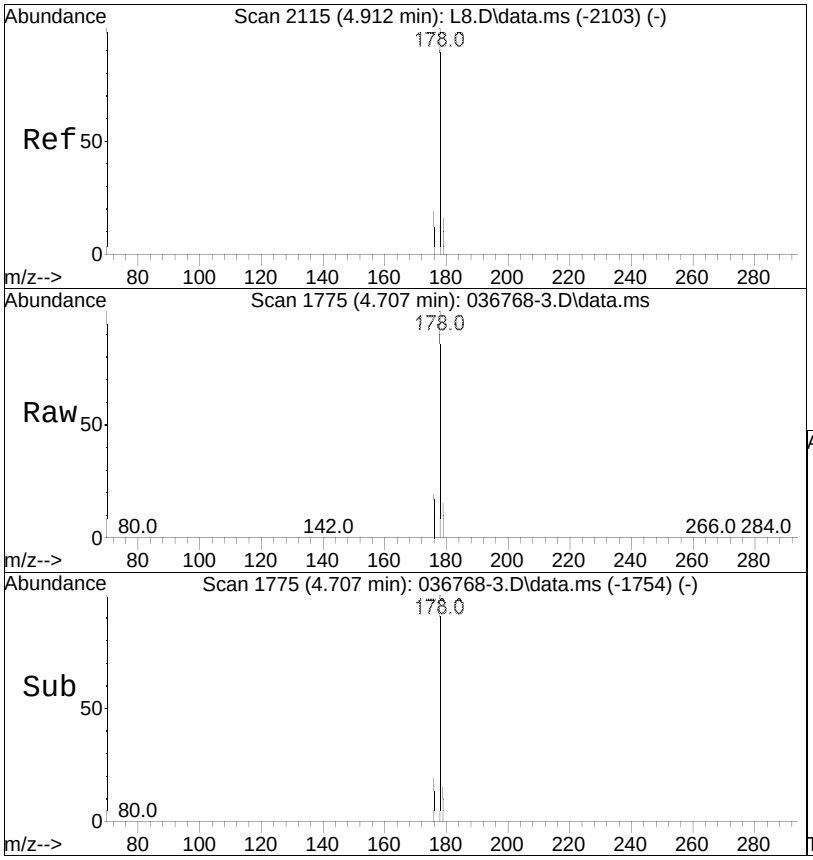


#27
Phenanthrene
Concen: 1562.88 ng/ml
RT: 4.678 min Scan# 1768
Delta R.T. 0.005 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:178 Resp: 655471

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.8	19.2

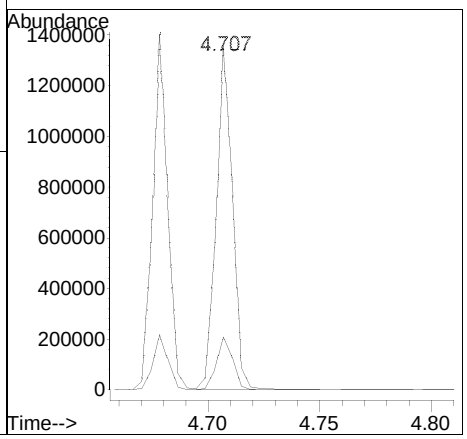


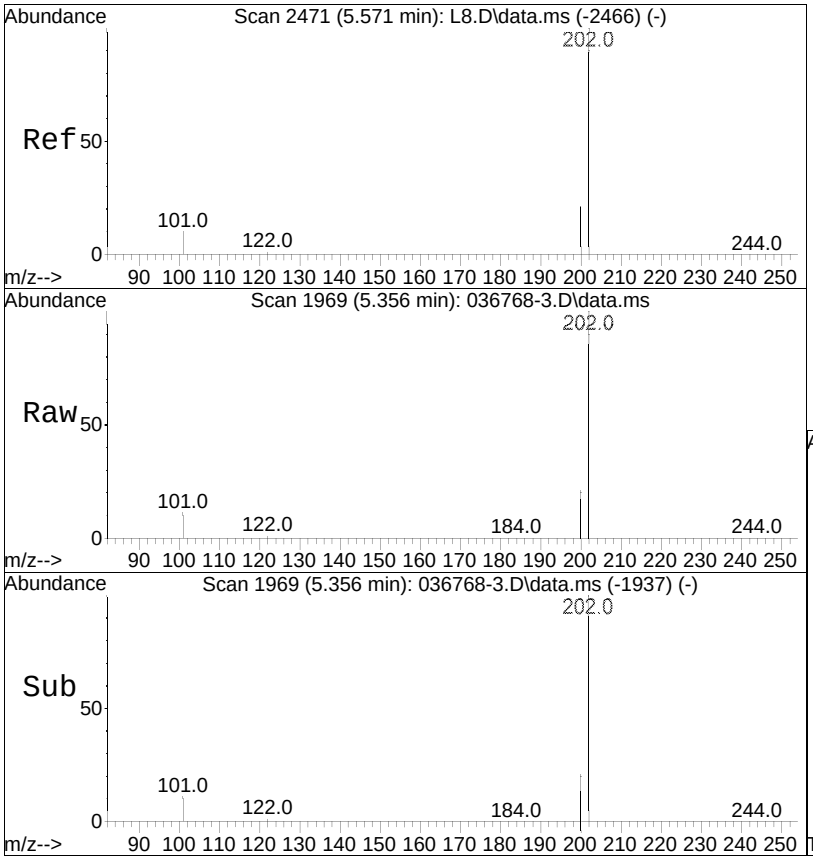


#28
Anthracene
Concen: 1624.91 ng/ml
RT: 4.707 min Scan# 1775
Delta R.T. 0.005 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:178 Resp: 683265

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.6	18.8

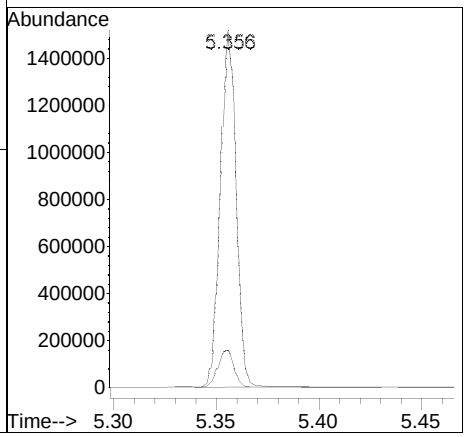


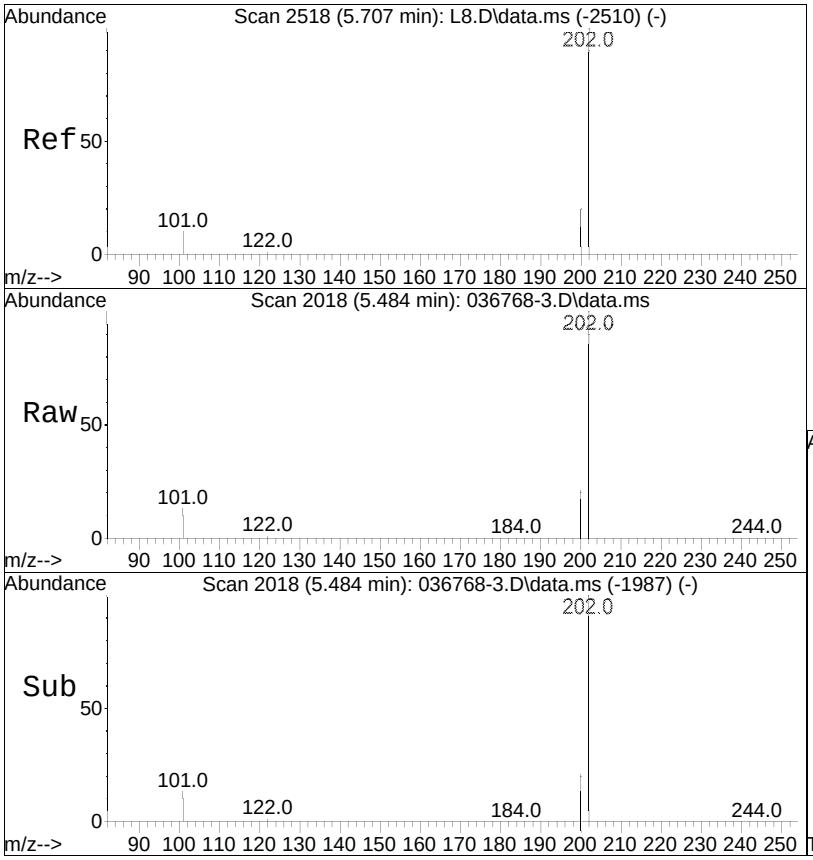


#29
Fluoranthene
Concen: 1524.16 ng/ml
RT: 5.356 min Scan# 1969
Delta R.T. 0.004 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:202 Resp: 799747

Ion	Ratio	Lower	Upper
202	100		
101	11.0	8.2	12.2

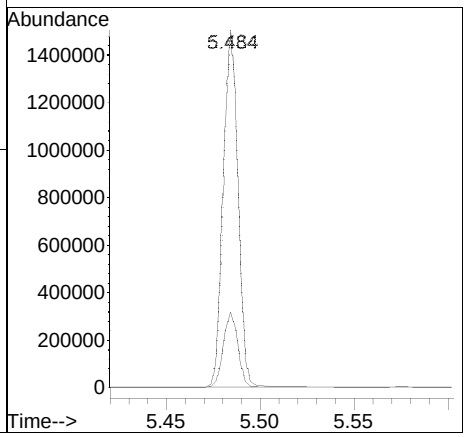


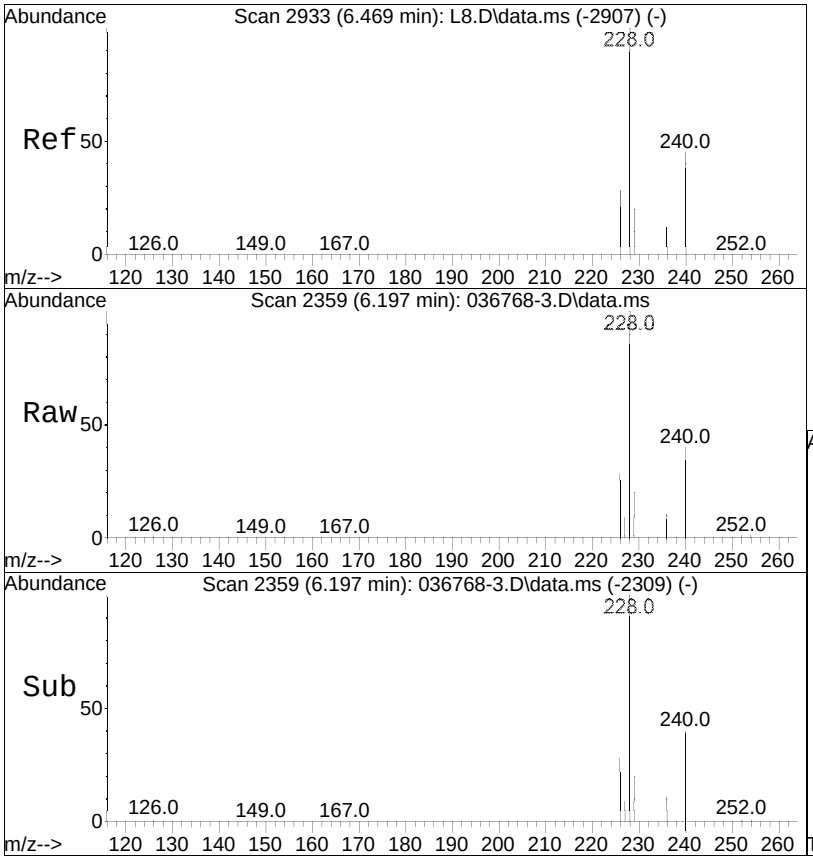


#30
Pyrene
Concen: 1494.65 ng/ml
RT: 5.484 min Scan# 2018
Delta R.T. 0.001 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:202 Resp: 809506

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

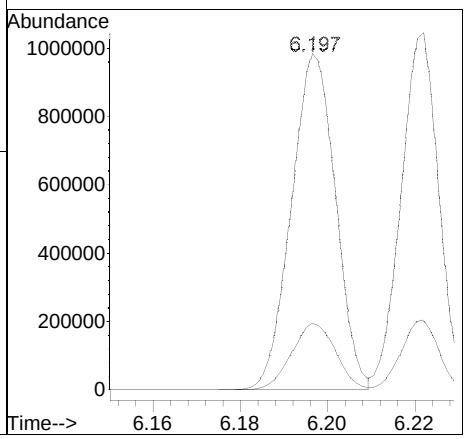


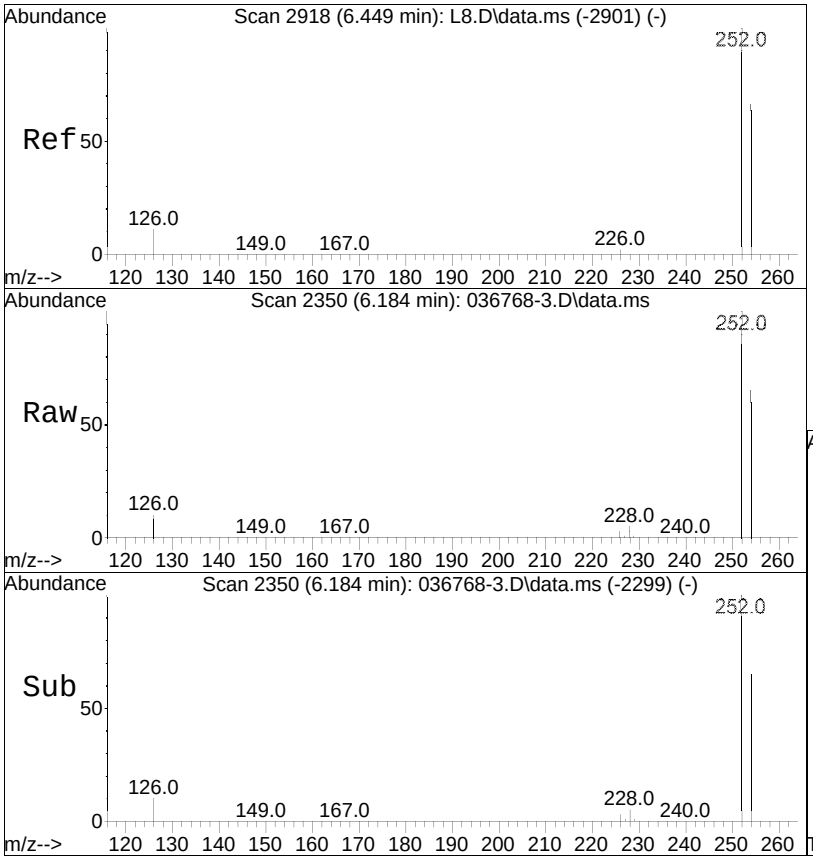


#34
Benzo[a]anthracene
Concen: 1633.93 ng/ml
RT: 6.197 min Scan# 2359
Delta R.T. -0.010 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:228 Resp: 690818

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.9	23.9

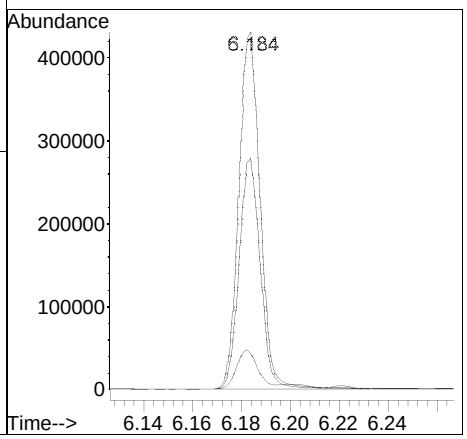


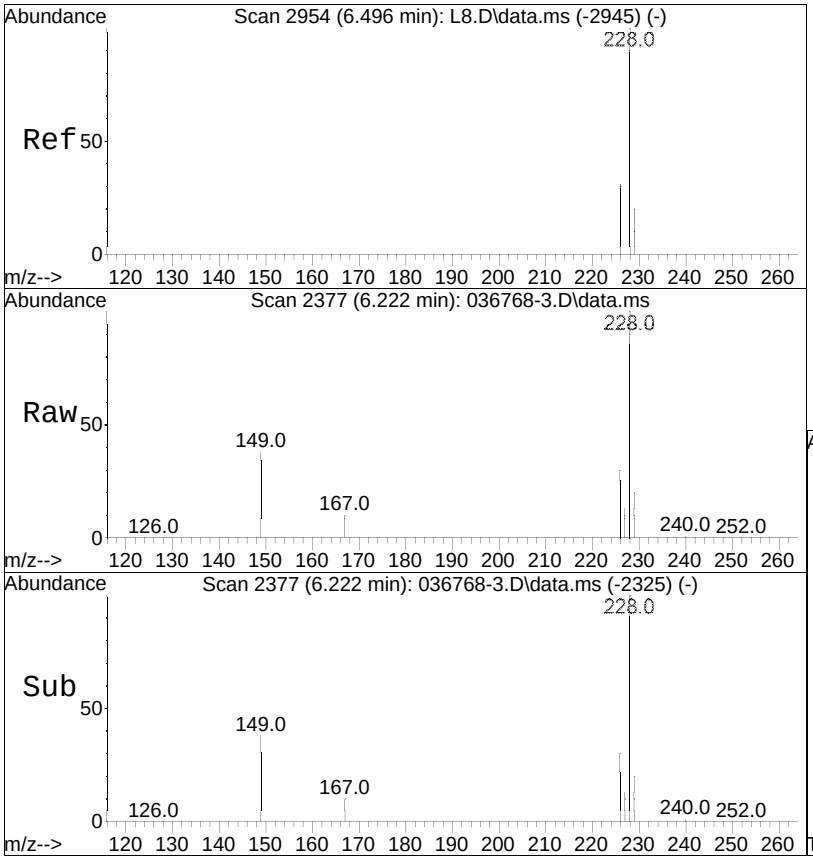


#35
3,3'-Dichlorobenzidine
Concen: 1690.44 ng/ml
RT: 6.184 min Scan# 2350
Delta R.T. -0.008 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:252 Resp: 257205

Ion	Ratio	Lower	Upper
252	100		
126	11.5	8.6	13.0
254	64.5	51.8	77.8

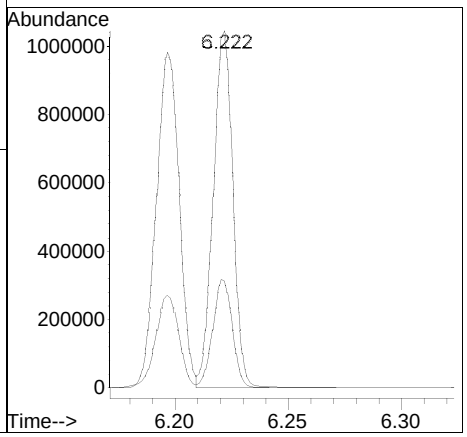


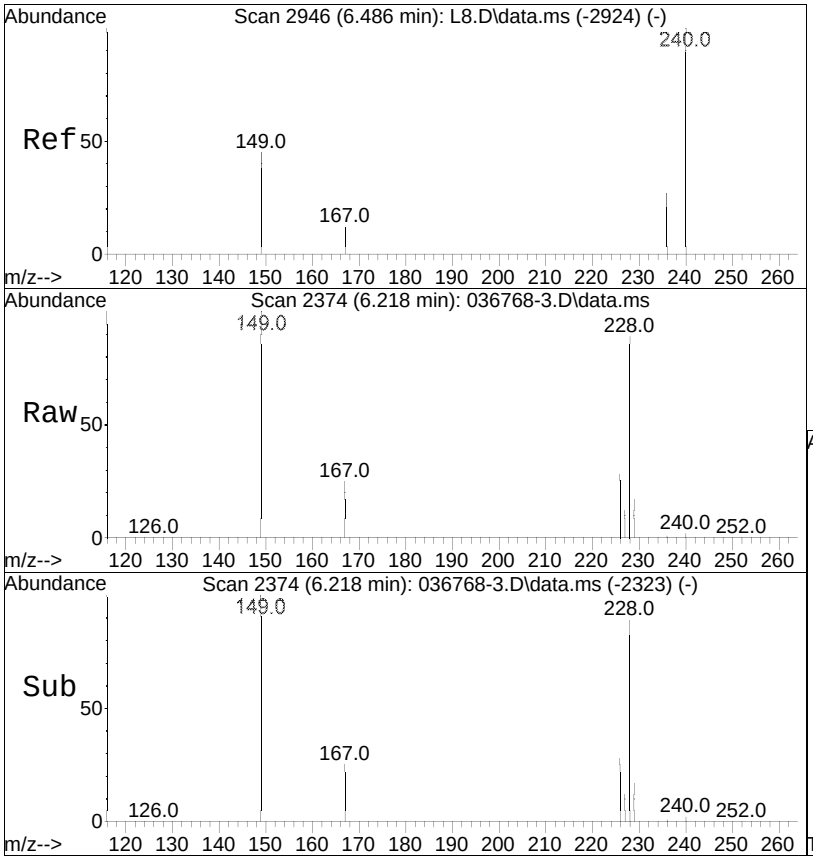


#36
Chrysene
Concen: 1526.29 ng/ml
RT: 6.222 min Scan# 2377
Delta R.T. -0.007 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:228 Resp: 629135

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.4	36.6

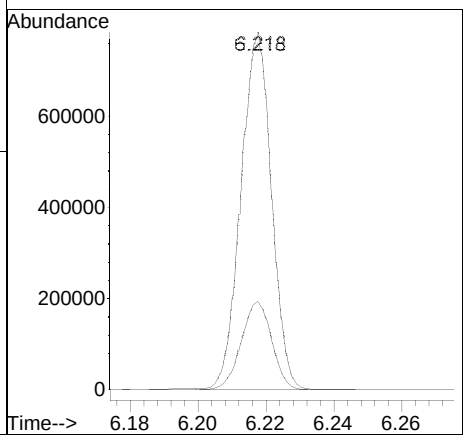


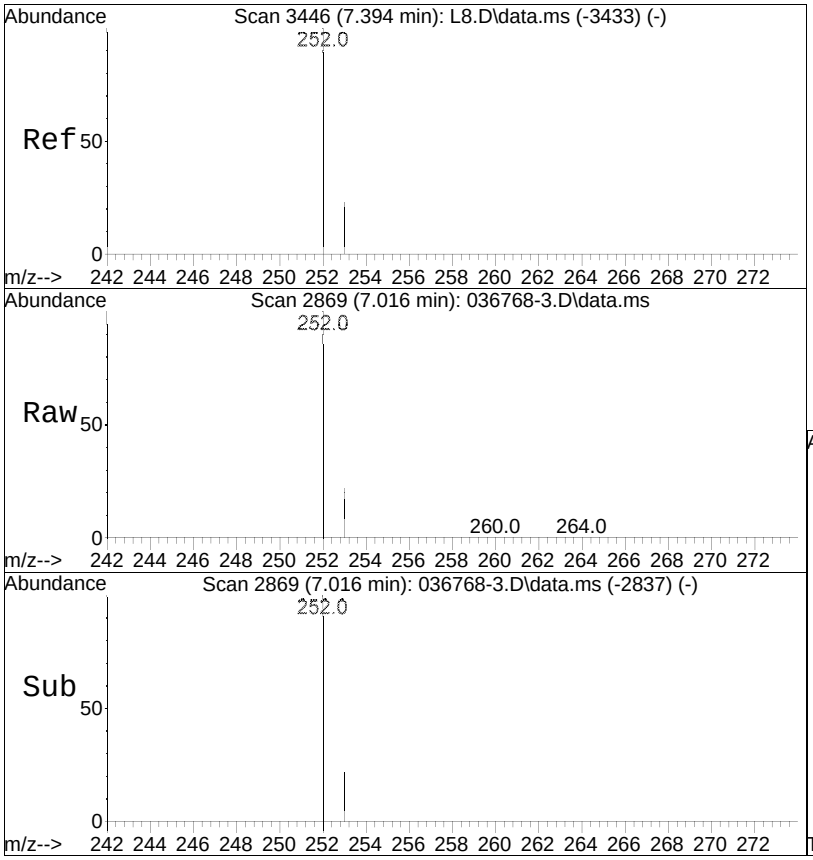


#37
Bis(2-ethylhexyl)phthalate
Concen: 2266.01 ng/ml
RT: 6.218 min Scan# 2374
Delta R.T. -0.008 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:149 Resp: 484557

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.7	31.1

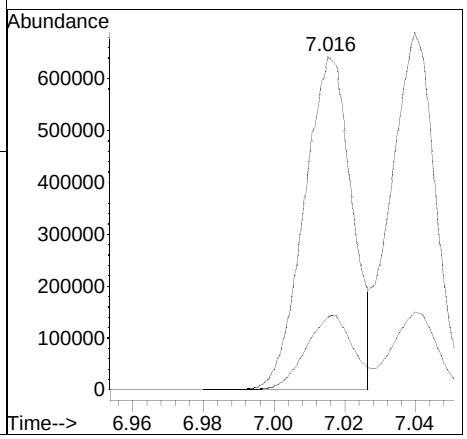


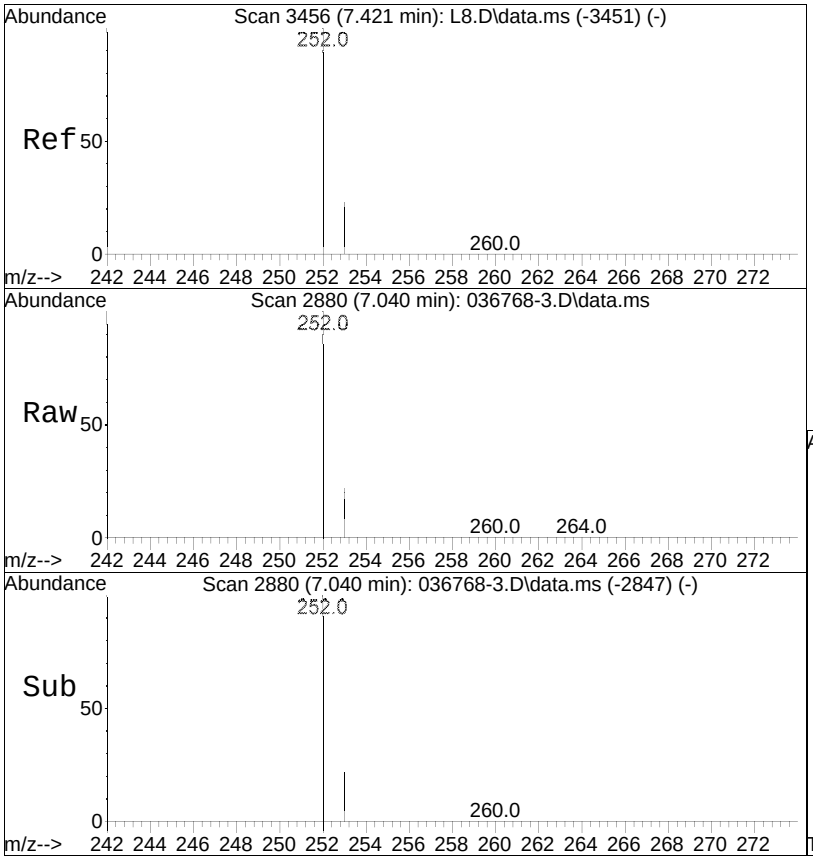


#39
Benzo[b]fluoranthene
Concen: 1621.60 ng/ml
RT: 7.016 min Scan# 2869
Delta R.T. -0.009 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:252 Resp: 603869

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1

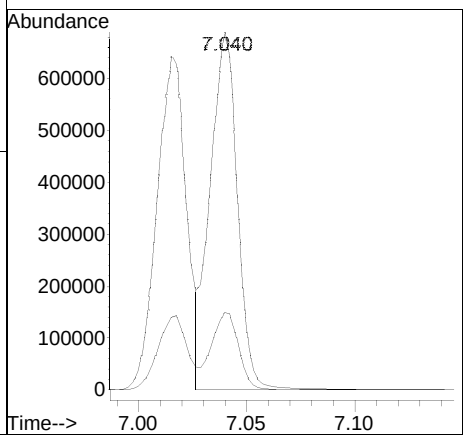


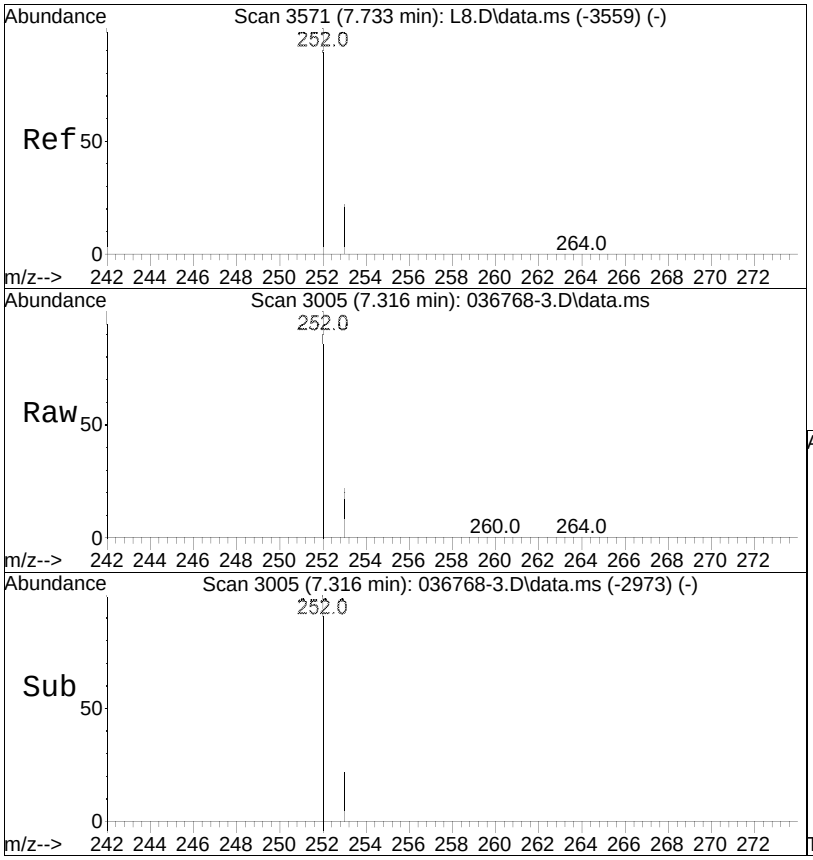


#40
Benzo[k]fluoranthene
Concen: 1631.46 ng/ml
RT: 7.040 min Scan# 2880
Delta R.T. -0.006 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:252 Resp: 599120

Ion	Ratio	Lower	Upper
252	100		
253	21.1	18.2	27.2

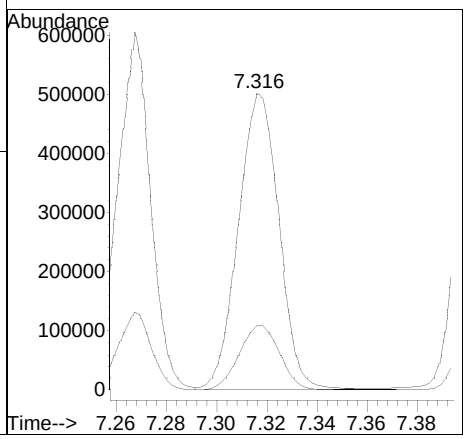


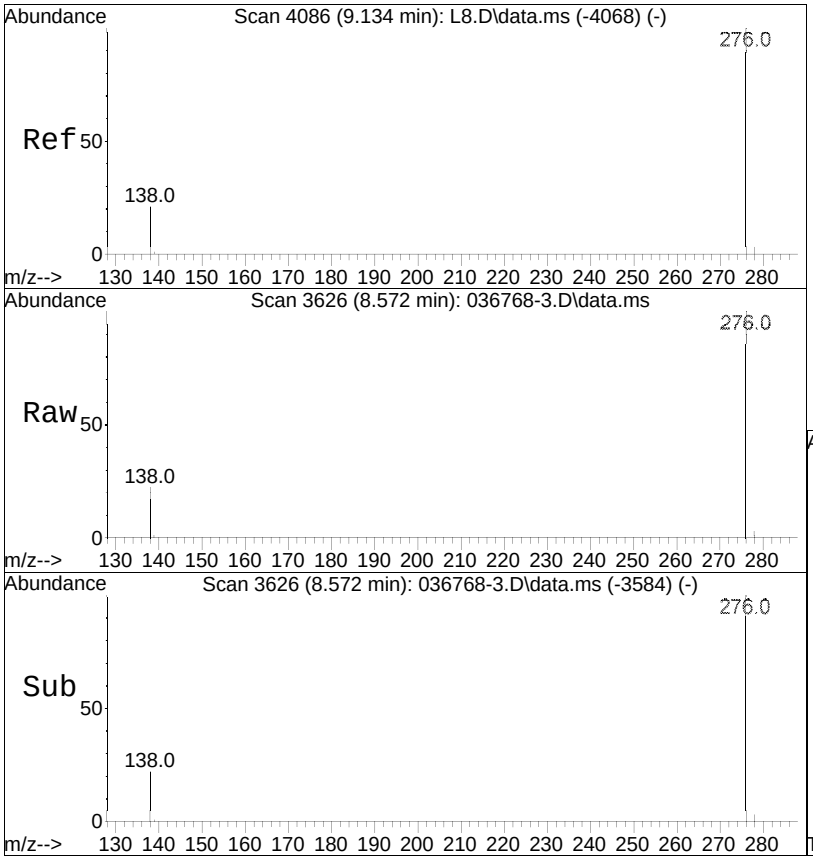


#41
Benzo[a]pyrene
Concen: 1758.82 ng/ml
RT: 7.316 min Scan# 3005
Delta R.T. -0.009 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:252 Resp: 555758

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9

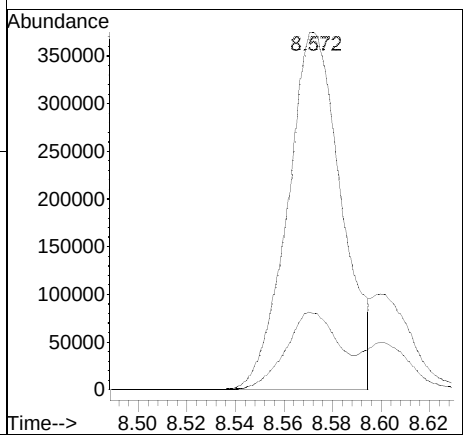


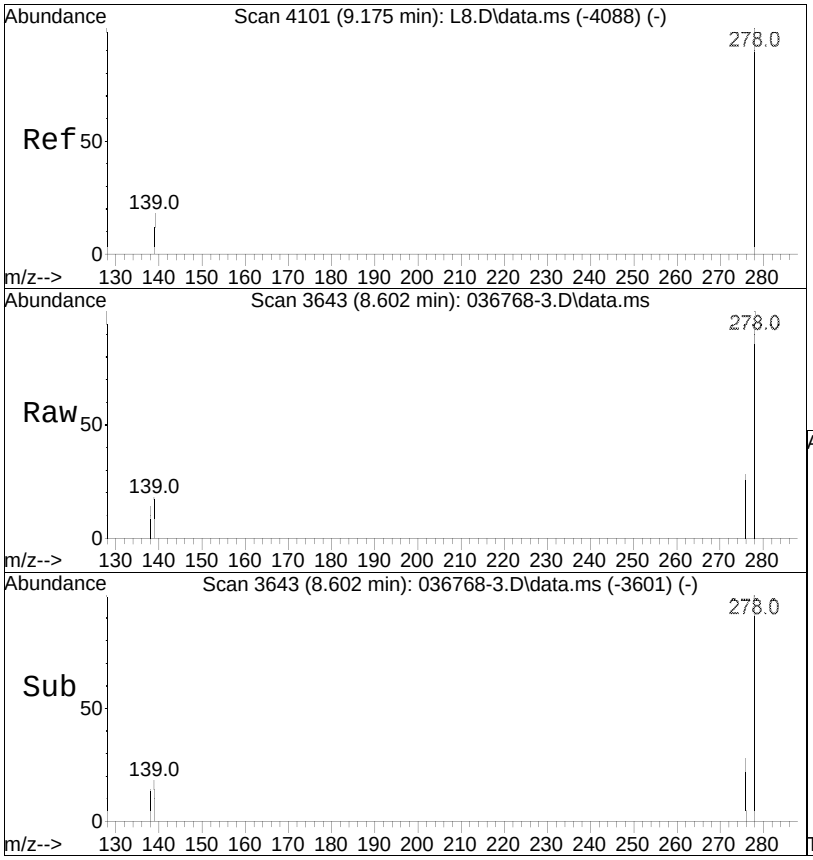


#42
Indeno[1,2,3-cd]pyrene
Concen: 1870.94 ng/ml
RT: 8.572 min Scan# 3626
Delta R.T. -0.007 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:276 Resp: 572340

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.9	25.3

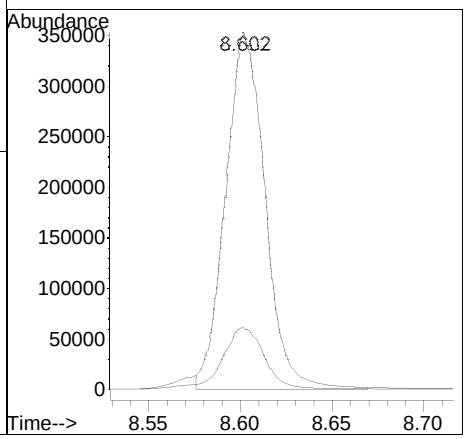


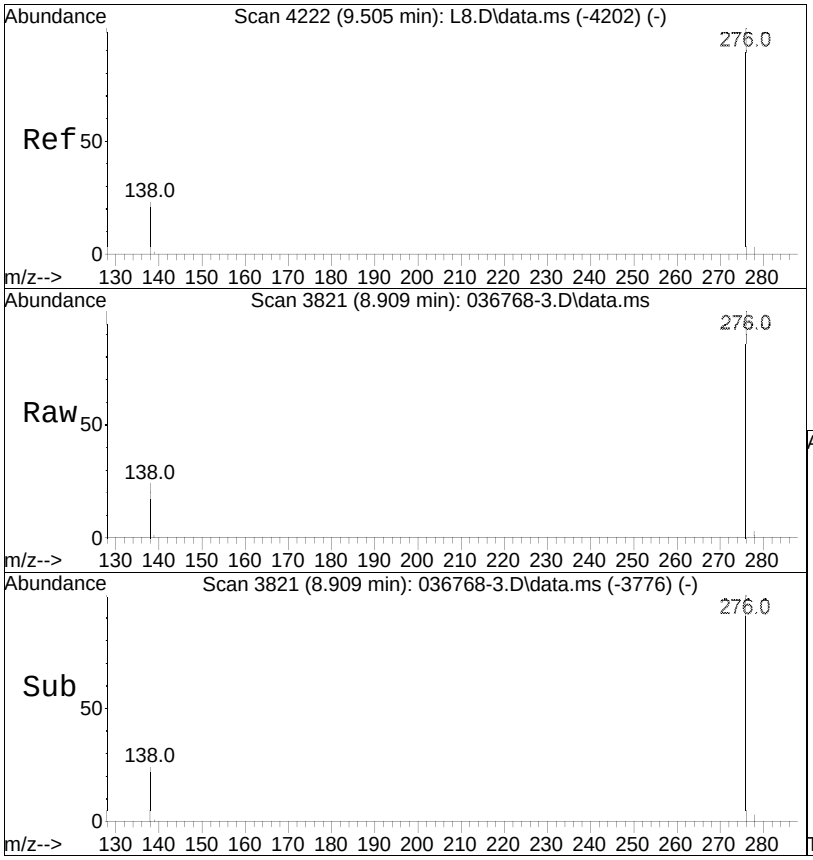


#43
Dibenzo[a,h]anthracene
Concen: 1854.65 ng/ml M6
RT: 8.602 min Scan# 3643
Delta R.T. -0.007 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:278 Resp: 526327

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.6	22.0

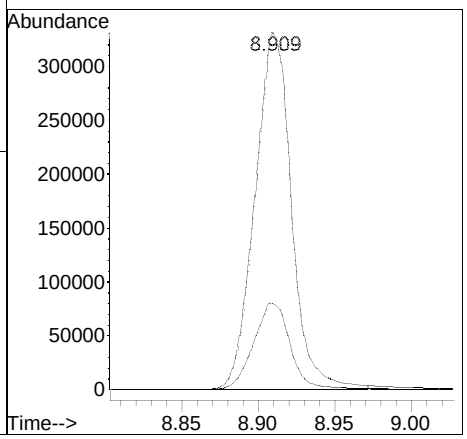




#44
Benzo[g,h,i]perylene
Concen: 1866.80 ng/ml
RT: 8.909 min Scan# 3821
Delta R.T. -0.002 min
Lab File: 036768-3.D
Acq: 05 Mar 2025 12:04 pm

Tgt Ion:276 Resp: 543536

Ion	Ratio	Lower	Upper
276	100		
138	24.4	18.6	28.0

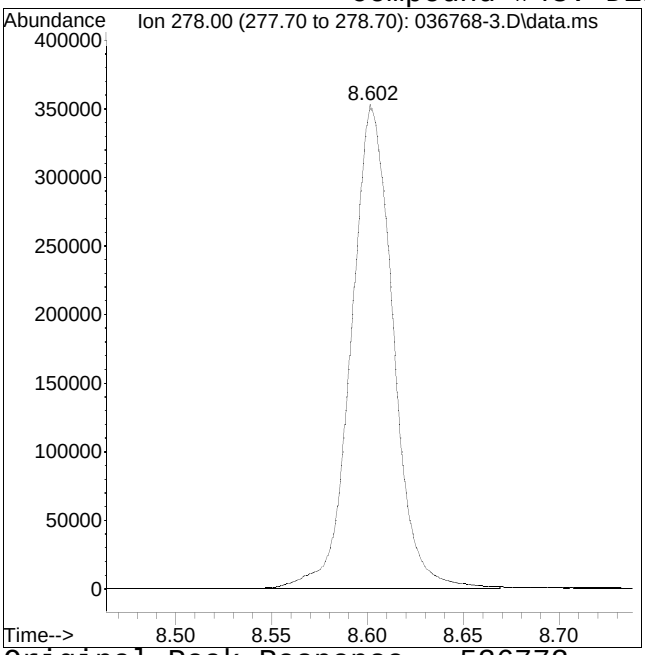


Manual Integration Report

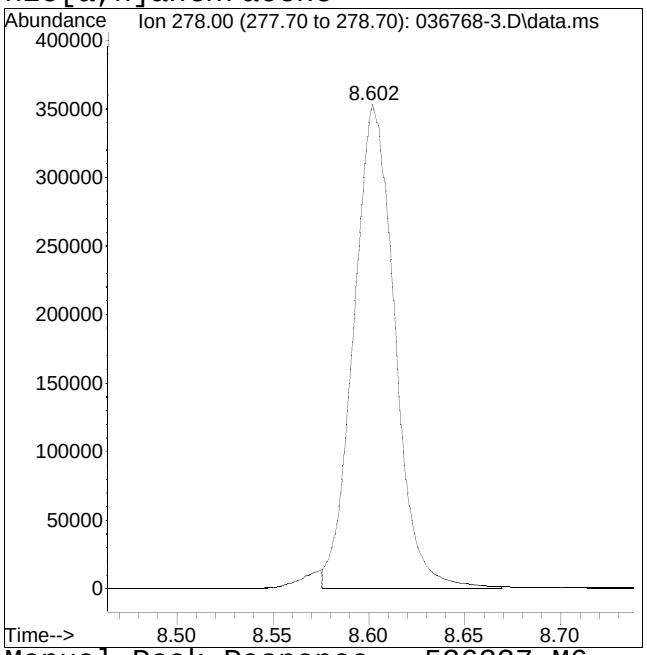
Data Path : I:\8270SIM\sv119\250305RVTQ
Data File : 036768-3.D
Date Inj'd : 3/5/2025 12:04 pm
Sample : WG2036768-3,32,,kmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:kmh
Instrument : SV119
Quant Date : 3/5/2025 12:18 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 536772



Manual Peak Response = 526327 M6

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 07 2025, 04:00 pm

Work Group: WG2036768 for Department: 2 Organic Preparation

Created: 05-MAR-25 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2510432-02	VACDRUM_WC_022625	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0305	0305	S0	Amber-A.1
L2510791-01	BUFFALO RO TYPE-1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0306	0320	NC	Amber-A.1
L2511496-01	TW-5	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511496-02	TW-4	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511496-03	TW-2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511529-01	MW-11D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0310	0310	S0	Amber-A.1
L2511943-01	RI-MW-5	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
L2511943-02	RI-MW-2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
L2511943-03	RI-MW-1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0311	0311	S0	Amber-A.1
WG2036768-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2036768-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2036768-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG2036768-3 WG2036768-2

Dep.: GCMS
Inst: SV119
Date: **12/29/24**
Run:

Method
GC: SIM RVT

Seq: WG2015284
ICAL: ICAL21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	TUNE	TUNE				
48	TUNEa	TUNE				
1	L10	IL10,32,, #10885 5000 ng/ml				
2	L9	IL9,32,, #10901 2500 ng/ml				
3	L8	IL8,32,, #10888 1000 ng/ml				
4	L7	IL7,32,, #10889 500 ng/ml				
5	L6	IL6,32,, #11222 100 ng/ml				
6	L5	IL5,32,, #10891 40 ng/ml				
7	L4	IL4,32,, #10892 10 ng/ml				
8	L3	IL3,32,, #10893 5 ng/ml				
9	L2	IL2,32,, #10900 2 ng/ml				
10	L1	IL1,32,, #10895 1 ng/ml				
11	ICV	CQICV,32,, #10884 1000 ng/ml				
12	instblk	instrument blank				

Dep.: GCMS
Inst: SV119
Date: **03/05/25**
Run:

Method
GC: SIM RVT

Seq: WG2036764
ICAL: 21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	deg0305	wg-1,32,,dftpp SV119 lot# 11413				03/05 kmh
49	ccv0305	wg-3,32,,ICV 11275 (0222e)				03/05 kmh
50	blank0305	instrument blank				
1	10565-03	L2510565-03,32,,RE,kmh				03/05 kmh
2	10550-04	L2510550-04,32,,RE,kmh				03/05 kmh
3	10754-02	L2510754-02,32,,kmh				03/05 kmh
4	036581-2	WG2036581/77-2,32,,kmh				03/05 kmh
5	036581-3	WG2036581/77-3,32,,kmh				03/05 kmh
6	036581-1	WG2036581/77-1,32,,kmh				03/05 kmh
7	780-04d1	L2510780-04d,32,2,kmh				03/05 kmh
8	036238-2	WG2036238-2,32,,RV,kmh			Sv-gmr	03/05 kmh
9	036238-3	WG2036238-3,32,,RV,kmh				03/05 kmh
10	11054-01	L2511054-01,32,,RV,kmh				03/05 kmh
11	11054-04	L2511054-04,32,,RV,kmh				03/05 kmh
12	11275-01	L2511275-01,32,,kmh				03/05 kmh
13	11275-02	L2511275-02,32,,kmh				03/05 kmh
14	11275-03	L2511275-03,32,,kmh				03/05 kmh
15	11275-04	L2511275-04,32,,kmh				03/05 kmh
16	036577-4	WG2036577-4,32,,kmh				03/05 kmh
17	036577-5	WG2036577-5,32,,kmh				03/05 kmh
18	036768-2	WG2036768-2,32,,kmh				03/05 kmh
19	036768-3	WG2036768-3,32,,kmh				03/05 kmh
20	036768-1	WG2036768-1,32,,kmh				03/05 kmh
21	10432-02	L2510432-02,32,,kmh	20x- matrix			03/05 kmh
22	11275-05	L2511275-05,32,,kmh				03/05 kmh
23	432-02d1	L2510432-02d,32,20,kmh				03/05 JJW
24	432-02d2	L2510432-02d,32,10,kmh				
25	432-02d3	L2510432-02d,32,100,kmh				03/05 JJW
26	11275-06	L2511275-06,32,,kmh			SV-JJW	03/06 kmh
27	11300-01	L2511300-01,32,,kmh				03/06 JJW
28	11496-01	L2511496-01,32,,kmh				03/07 RAP
29	11496-02	L2511496-02,32,,kmh				03/07 RAP
30	11496-03	L2511496-03,32,,kmh				03/07 RAP
31	11529-01	L2511529-01,32,,kmh			kmh	03/07 RAP
32	035430-2	WG2035430-2,32,,RV,rp				03/06 JJW
33	035430-3	WG2035430-3,32,,RV,rp				03/06 JJW
34	035430-1	WG2035430-1,32,,RV,rp				03/06 JJW
35	11013-01	L2511013-01,32,,RV,rp				
36	984-02d1	L2510984-02d,32,20,rp			RAP	03/06 JJW
					Sv-gmr	

ORGANIC ELN REPORT

Workgroup: **WG2036768**

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ756
Surrogate Type: ABN **Lot #:** 11269CD-062025
Spike Type: ABN-SIM **Lot #:** 11219AO-061925 | 11220AI-03
Spike Verify by: MAD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A010625
Na2SO4	23K2961078
NaOH	10NNaOH010625

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ756

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2510432-02 WATER	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
Sample volume decanted from larger amber										
L2510791-01 SAMP	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2511496-01 SAMP	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
L2511496-02 SAMP	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
L2511496-03 SAMP	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
L2511529-01 WATER	03/05/25 07:02	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K

Reported: 07-MAR-25 04:00 PM

ORGANIC ELN REPORT

Workgroup: WG2036768

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2511943-01 WATER	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2511943-02 WATER	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
L2511943-03 WATER	03/05/25 23:50	Thomas Ellis	100	<2, >12	.1		03/06/25 02:20	Alaina Ohara-Cruz	1	K
WG2036768-1 BLANK	03/05/25 07:02 **WG2036767**	Michael Daring	100	<2, >12	.1		03/05/25 09:43	Grace Tran	1	K
WG2036768-2 LCS	03/05/25 07:02 **WG2036767**	Michael Daring	100	<2, >12	.1	.1	03/05/25 09:43	Grace Tran	1	K
WG2036768-3 LCSD	03/05/25 07:02 **WG2036767**	Michael Daring	100	<2, >12	.1	.1	03/05/25 09:43	Grace Tran	1	K

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036471-1	**Date Collected**	: NA
Client ID	: WG2036471-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/25 09:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2037194.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/04/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036471-4	**Date Collected**	: 02/27/25 09:40
Client ID	: WG2036471-4 DUP	**Date Received**	: 02/27/25
Sample Location	:	**Date Analyzed**	: 03/06/25 09:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2037194.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/04/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-50-8	Copper, Dissolved	0.0175	0.0100	0.002	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2511529
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2036987-1	Date Collected	: NA
Client ID	: WG2036987-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/07/25 13:11
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: TAA
Lab File ID	: WG2037545.pdf	Instrument ID	: TRACE5
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/05/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036987-4	**Date Collected**	: 02/27/25 12:10
Client ID	: WG2036987-4 DUP	**Date Received**	: 02/28/25
Sample Location	:	**Date Analyzed**	: 03/07/25 13:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: TAA
Lab File ID	: WG2037545.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/05/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0324	0.100	0.032	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2511529
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2511529-01	Date Collected	: 03/03/25 14:20
Client ID	: MW-11D	Date Received	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/10/25 12:54
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2038397.pdf	Instrument ID	: TRACE5
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/04/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0267	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	16.4	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	3.18	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.78	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0665	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.943	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	7.81	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2511529
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2511529-01	Date Collected	: 03/03/25 14:20
Client ID	: MW-11D	Date Received	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/10/25 13:58
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2038397.pdf	Instrument ID	: TRACE5
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/05/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.330	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0323	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	17.5	0.100	0.0350	
7440-47-3	Chromium, Total	0.0062	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	4.95	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.89	0.100	0.0153	
7439-96-5	Manganese, Total	0.0756	0.0100	0.0016	
7440-02-0	Nickel, Total	0.0044	0.0250	0.0024	J
7440-09-7	Potassium, Total	1.02	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.18	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0032	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036987-1	**Date Collected**	: NA
Client ID	: WG2036987-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/10/25 12:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2038397.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/05/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036987-8	**Date Collected**	: 03/03/25 10:45
Client ID	: WG2036987-8 DUP	**Date Received**	: 03/03/25
Sample Location	:	**Date Analyzed**	: 03/10/25 14:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2038397.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/05/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-89-6	Iron, Total	1.27	0.0500	0.009	

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1937519-1									
Date Analyzed	:	03/06/25 06:27									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.5140	103							
Antimony		0.500	0.4890	98							
Arsenic		0.500	0.4750	95							
Barium		0.500	0.4860	97							
Beryllium		0.500	0.5120	102							
Cadmium		0.500	0.4810	96							
Calcium		0.500	0.5140	103							
Chromium		0.500	0.4910	98							
Cobalt		0.500	0.4900	98							
Copper		0.500	0.4830	97							
Iron		0.500	0.5280	106							
Lead		0.500	0.4920	98							
Magnesium		0.500	0.5030	101							
Manganese		0.500	0.5050	101							
Nickel		0.500	0.4930	99							
Potassium		5.00	5.2200	104							
Selenium		0.500	0.4780	96							
Silver		0.500	0.4960	99							
Sodium		10.0	10.2000	102							
Thallium		0.500	0.4970	99							
Vanadium		0.500	0.4870	97							
Zinc		0.500	0.4860	97							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1937519-3			R1937519-6			R1937519-8			
Date Analyzed :	03/06/25 06:39			03/06/25 08:58			03/06/25 10:10			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4880	98	0.5000	0.532	106	0.479	96		
Antimony	0.500	0.4930	99	0.5000	0.494	99	0.490	98		
Arsenic	0.500	0.4760	95	0.5000	0.482	96	0.467	93		
Barium	0.500	0.4780	96	0.5000	0.500	100	0.485	97		
Beryllium	0.500	0.5020	100	0.5000	0.526	105	0.489	98		
Cadmium	0.500	0.4820	96	0.5000	0.481	96	0.486	97		
Calcium	0.500	0.5180	104	0.5000	0.548	110	0.491	98		
Chromium	0.500	0.4870	97	0.5000	0.507	101	0.472	94		
Cobalt	0.500	0.4920	98	0.5000	0.491	98	0.498	100		
Copper	0.500	0.4760	95	0.5000	0.500	100	0.465	93		
Iron	0.500	0.5170	103	0.5000	0.549	110	0.499	100		
Lead	0.500	0.4940	99	0.5000	0.489	98	0.508	102		
Magnesium	0.500	0.4940	99	0.5000	0.523	105	0.459	92		
Manganese	0.500	0.4900	98	0.5000	0.521	104	0.466	93		
Nickel	0.500	0.4920	98	0.5000	0.498	100	0.486	97		
Potassium	5.00	5.0700	101	5.0000	5.42	108	4.85	97		
Selenium	0.500	0.4780	96	0.5000	0.478	96	0.491	98		
Silver	0.500	0.4880	98	0.5000	0.508	102	0.459	92		
Sodium	10.0	9.9900	100	10.0000	10.3	103	9.31	93		
Thallium	0.500	0.4970	99	0.5000	0.498	100	0.502	100		
Vanadium	0.500	0.4800	96	0.5000	0.506	101	0.461	92		
Zinc	0.500	0.4890	98	0.5000	0.476	95	0.510	102		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1938000-1			R1938000-4			R1938000-6		R1938000-8	
Date Analyzed:	03/06/25 20:51			03/06/25 21:32			03/07/25 09:25		03/07/25 11:12	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4900	98	0.5000	0.487	97	0.491	98	0.486	97
Antimony	0.500	0.4930	99	0.5000	0.492	98	0.488	98	0.492	98
Arsenic	0.500	0.4870	97	0.5000	0.485	97	0.471	94	0.470	94
Barium	0.500	0.4730	95	0.5000	0.470	94	0.498	100	0.487	97
Beryllium	0.500	0.4940	99	0.5000	0.491	98	0.471	94	0.466	93
Cadmium	0.500	0.4860	97	0.5000	0.482	96	0.477	95	0.481	96
Calcium	0.500	0.5000	100	0.5000	0.501	100	0.503	101	0.502	100
Chromium	0.500	0.4920	98	0.5000	0.490	98	0.487	97	0.490	98
Cobalt	0.500	0.4970	99	0.5000	0.493	99	0.482	96	0.484	97
Copper	0.500	0.4840	97	0.5000	0.483	97	0.476	95	0.476	95
Iron	0.500	0.5140	103	0.5000	0.509	102	0.498	100	0.493	99
Lead	0.500	0.4980	100	0.5000	0.495	99	0.469	94	0.467	93
Magnesium	0.500	0.4980	100	0.5000	0.496	99	0.525	105	0.537	107
Manganese	0.500	0.4830	97	0.5000	0.478	96	0.479	96	0.480	96
Nickel	0.500	0.4980	100	0.5000	0.493	99	0.503	101	0.510	102
Potassium	5.00	5.0200	100	5.0000	5.13	103	5.14	103	5.11	102
Selenium	0.500	0.4880	98	0.5000	0.484	97	0.466	93	0.465	93
Silver	0.500	0.4900	98	0.5000	0.490	98	0.491	98	0.498	100
Sodium	10.0	9.7300	97	10.0000	9.36	94	9.65	96	9.56	96
Thallium	0.500	0.5250	105	0.5000	0.524	105	0.505	101	0.508	102
Vanadium	0.500	0.4860	97	0.5000	0.484	97	0.491	98	0.496	99
Zinc	0.500	0.4930	99	0.5000	0.488	98	0.493	99	0.499	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1938000-10			R1938000-12			
Date Analyzed :				03/07/25 12:47			03/07/25 14:08			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.496	99	0.484	97		
Antimony				0.5000	0.490	98	0.496	99		
Arsenic				0.5000	0.472	94	0.472	94		
Barium				0.5000	0.486	97	0.479	96		
Beryllium				0.5000	0.474	95	0.466	93		
Cadmium				0.5000	0.477	95	0.475	95		
Calcium				0.5000	0.513	103	0.496	99		
Chromium				0.5000	0.492	98	0.492	98		
Cobalt				0.5000	0.482	96	0.481	96		
Copper				0.5000	0.480	96	0.484	97		
Iron				0.5000	0.501	100	0.494	99		
Lead				0.5000	0.468	94	0.463	93		
Magnesium				0.5000	0.537	107	0.544	109		
Manganese				0.5000	0.486	97	0.480	96		
Nickel				0.5000	0.505	101	0.508	102		
Potassium				5.0000	5.19	104	5.13	103		
Selenium				0.5000	0.465	93	0.464	93		
Silver				0.5000	0.505	101	0.512	102		
Sodium				10.0000	9.38	94	9.41	94		
Thallium				0.5000	0.508	102	0.509	102		
Vanadium				0.5000	0.497	99	0.501	100		
Zinc				0.5000	0.494	99	0.494	99		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1938684-1									
Date Analyzed	:	03/10/25 06:33									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4920	98							
Antimony		0.500	0.5080	102							
Arsenic		0.500	0.4950	99							
Barium		0.500	0.4760	95							
Beryllium		0.500	0.4980	100							
Cadmium		0.500	0.4990	100							
Calcium		0.500	0.4990	100							
Chromium		0.500	0.5030	101							
Cobalt		0.500	0.5130	103							
Copper		0.500	0.4940	99							
Iron		0.500	0.5130	103							
Lead		0.500	0.5100	102							
Magnesium		0.500	0.5140	103							
Manganese		0.500	0.4920	98							
Nickel		0.500	0.5120	102							
Potassium		5.00	5.1100	102							
Selenium		0.500	0.4980	100							
Silver		0.500	0.4900	98							
Sodium		10.0	9.8800	99							
Thallium		0.500	0.5140	103							
Vanadium		0.500	0.4990	100							
Zinc		0.500	0.5060	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1938684-3			R1938684-6			R1938684-8		R1938684-10	
Date Analyzed:	03/10/25 06:46			03/10/25 09:46			03/10/25 11:02		03/10/25 11:45	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5160	103	0.5000	0.470	94	0.513	103	0.520	104
Antimony	0.500	0.5130	103	0.5000	0.512	102	0.520	104	0.508	102
Arsenic	0.500	0.4960	99	0.5000	0.499	100	0.505	101	0.492	98
Barium	0.500	0.5010	100	0.5000	0.456	91	0.501	100	0.501	100
Beryllium	0.500	0.5230	105	0.5000	0.470	94	0.522	104	0.520	104
Cadmium	0.500	0.5030	101	0.5000	0.498	100	0.506	101	0.496	99
Calcium	0.500	0.5260	105	0.5000	0.482	96	0.526	105	0.526	105
Chromium	0.500	0.5040	101	0.5000	0.496	99	0.499	100	0.500	100
Cobalt	0.500	0.5140	103	0.5000	0.528	106	0.528	106	0.516	103
Copper	0.500	0.4960	99	0.5000	0.487	97	0.492	98	0.491	98
Iron	0.500	0.5370	107	0.5000	0.489	98	0.537	107	0.540	108
Lead	0.500	0.5150	103	0.5000	0.497	99	0.511	102	0.503	101
Magnesium	0.500	0.5150	103	0.5000	0.524	105	0.518	104	0.521	104
Manganese	0.500	0.5140	103	0.5000	0.474	95	0.521	104	0.519	104
Nickel	0.500	0.5140	103	0.5000	0.518	104	0.522	104	0.511	102
Potassium	5.00	5.3200	106	5.0000	4.97	99	5.43	109	5.46	109
Selenium	0.500	0.5010	100	0.5000	0.488	98	0.500	100	0.489	98
Silver	0.500	0.5010	100	0.5000	0.504	101	0.509	102	0.507	101
Sodium	10.0	10.3000	103	10.0000	9.71	97	10.5	105	10.5	105
Thallium	0.500	0.5160	103	0.5000	0.512	102	0.520	104	0.511	102
Vanadium	0.500	0.5000	100	0.5000	0.498	100	0.499	100	0.499	100
Zinc	0.500	0.5100	102	0.5000	0.510	102	0.515	103	0.507	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1938684-12						
Date Analyzed :				03/10/25 13:19						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.478	96				
Antimony				0.5000	0.514	103				
Arsenic				0.5000	0.494	99				
Barium				0.5000	0.460	92				
Beryllium				0.5000	0.482	96				
Cadmium				0.5000	0.501	100				
Calcium				0.5000	0.494	99				
Chromium				0.5000	0.494	99				
Cobalt				0.5000	0.514	103				
Copper				0.5000	0.487	97				
Iron				0.5000	0.497	99				
Lead				0.5000	0.512	102				
Magnesium				0.5000	0.512	102				
Manganese				0.5000	0.477	95				
Nickel				0.5000	0.513	103				
Potassium				5.0000	5.02	100				
Selenium				0.5000	0.497	99				
Silver				0.5000	0.502	100				
Sodium				10.0000	9.57	96				
Thallium				0.5000	0.515	103				
Vanadium				0.5000	0.491	98				
Zinc				0.5000	0.510	102				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1938684-1									
Date Analyzed	:	03/10/25 06:33									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4920	98							
Antimony		0.500	0.5080	102							
Arsenic		0.500	0.4950	99							
Barium		0.500	0.4760	95							
Beryllium		0.500	0.4980	100							
Cadmium		0.500	0.4990	100							
Calcium		0.500	0.4990	100							
Chromium		0.500	0.5030	101							
Cobalt		0.500	0.5130	103							
Copper		0.500	0.4940	99							
Iron		0.500	0.5130	103							
Lead		0.500	0.5100	102							
Magnesium		0.500	0.5140	103							
Manganese		0.500	0.4920	98							
Nickel		0.500	0.5120	102							
Potassium		5.00	5.1100	102							
Selenium		0.500	0.4980	100							
Silver		0.500	0.4900	98							
Sodium		10.0	9.8800	99							
Thallium		0.500	0.5140	103							
Vanadium		0.500	0.4990	100							
Zinc		0.500	0.5060	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1938684-3			R1938684-6			R1938684-8		R1938684-10	
Date Analyzed:	03/10/25 06:46			03/10/25 09:46			03/10/25 11:02		03/10/25 11:45	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5160	103	0.5000	0.470	94	0.513	103	0.520	104
Antimony	0.500	0.5130	103	0.5000	0.512	102	0.520	104	0.508	102
Arsenic	0.500	0.4960	99	0.5000	0.499	100	0.505	101	0.492	98
Barium	0.500	0.5010	100	0.5000	0.456	91	0.501	100	0.501	100
Beryllium	0.500	0.5230	105	0.5000	0.470	94	0.522	104	0.520	104
Cadmium	0.500	0.5030	101	0.5000	0.498	100	0.506	101	0.496	99
Calcium	0.500	0.5260	105	0.5000	0.482	96	0.526	105	0.526	105
Chromium	0.500	0.5040	101	0.5000	0.496	99	0.499	100	0.500	100
Cobalt	0.500	0.5140	103	0.5000	0.528	106	0.528	106	0.516	103
Copper	0.500	0.4960	99	0.5000	0.487	97	0.492	98	0.491	98
Iron	0.500	0.5370	107	0.5000	0.489	98	0.537	107	0.540	108
Lead	0.500	0.5150	103	0.5000	0.497	99	0.511	102	0.503	101
Magnesium	0.500	0.5150	103	0.5000	0.524	105	0.518	104	0.521	104
Manganese	0.500	0.5140	103	0.5000	0.474	95	0.521	104	0.519	104
Nickel	0.500	0.5140	103	0.5000	0.518	104	0.522	104	0.511	102
Potassium	5.00	5.3200	106	5.0000	4.97	99	5.43	109	5.46	109
Selenium	0.500	0.5010	100	0.5000	0.488	98	0.500	100	0.489	98
Silver	0.500	0.5010	100	0.5000	0.504	101	0.509	102	0.507	101
Sodium	10.0	10.3000	103	10.0000	9.71	97	10.5	105	10.5	105
Thallium	0.500	0.5160	103	0.5000	0.512	102	0.520	104	0.511	102
Vanadium	0.500	0.5000	100	0.5000	0.498	100	0.499	100	0.499	100
Zinc	0.500	0.5100	102	0.5000	0.510	102	0.515	103	0.507	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1938684-12			R1938684-14			
Date Analyzed :				03/10/25 13:19			03/10/25 14:42			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.478	96	0.474	95		
Antimony				0.5000	0.514	103	0.514	103		
Arsenic				0.5000	0.494	99	0.488	98		
Barium				0.5000	0.460	92	0.465	93		
Beryllium				0.5000	0.482	96	0.498	100		
Cadmium				0.5000	0.501	100	0.504	101		
Calcium				0.5000	0.494	99	0.495	99		
Chromium				0.5000	0.494	99	0.493	99		
Cobalt				0.5000	0.514	103	0.502	100		
Copper				0.5000	0.487	97	0.484	97		
Iron				0.5000	0.497	99	0.505	101		
Lead				0.5000	0.512	102	0.522	104		
Magnesium				0.5000	0.512	102	0.498	100		
Manganese				0.5000	0.477	95	0.485	97		
Nickel				0.5000	0.513	103	0.507	101		
Potassium				5.0000	5.02	100	5.10	102		
Selenium				0.5000	0.497	99	0.502	100		
Silver				0.5000	0.502	100	0.499	100		
Sodium				10.0000	9.57	96	9.50	95		
Thallium				0.5000	0.515	103	0.518	104		
Vanadium				0.5000	0.491	98	0.485	97		
Zinc				0.5000	0.510	102	0.511	102		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1937519-2		R1937519-7		R1937519-9				WG2036471-1	
Date Analyzed :	03/06/25 06:33		03/06/25 09:04		03/06/25 10:16				03/06/25 09:26	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U			0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U			0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U			0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U			0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U			0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U			0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U			0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U			0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U			0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U			0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U			0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U			0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U			0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U			0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U			0.0024	U
Potassium	0.237	U	0.237	U	0.237	U			0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U			0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U			0.0028	U
Sodium	0.120	U	0.120	U	0.120	U			0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U			0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U			0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U			0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1937519-4				
Date Analyzed :	03/06/25 06:46				

Parameter	mg/l	Q	Q	Q	Q	Q
Aluminum	0.0318	U				
Antimony	0.00710	U				
Arsenic	0.00190	U				
Barium	0.00210	U				
Beryllium	0.000900	U				
Cadmium	0.00100	U				
Calcium	0.0350	U				
Chromium	0.00210	U				
Cobalt	0.00170	U				
Copper	0.00220	U				
Iron	0.00900	U				
Lead	0.00270	U				
Magnesium	0.0153	U				
Manganese	0.00160	U				
Nickel	0.00240	U				
Potassium	0.237	U				
Selenium	0.00350	U				
Silver	0.00280	U				
Sodium	0.120	U				
Thallium	0.00250	U				
Vanadium	0.00200	U				
Zinc	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1938000-2		R1938000-5		R1938000-7		R1938000-9		WG2036987-1	
Date Analyzed :	03/06/25 20:58		03/06/25 21:39		03/07/25 09:31		03/07/25 11:18		03/07/25 13:11	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00253	J	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1938000-11		R1938000-13					
Date Analyzed :			03/07/25 12:53		03/07/25 14:15					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00190	U				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00900	U	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Potassium			0.237	U	0.237	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1938684-2		R1938684-7		R1938684-9		R1938684-11			
Date Analyzed :	03/10/25 06:39		03/10/25 09:52		03/10/25 11:08		03/10/25 11:51			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1938684-4		R1938684-13							
Date Analyzed :	03/10/25 06:52		03/10/25 13:25							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U						
Antimony	0.00710	U	0.00710	U						
Arsenic	0.00190	U	0.00190	U						
Barium	0.00210	U	0.00210	U						
Beryllium	0.000900	U	0.000900	U						
Cadmium	0.00100	U	0.00100	U						
Calcium	0.0350	U	0.0350	U						
Chromium	0.00210	U	0.00210	U						
Cobalt	0.00170	U	0.00170	U						
Copper	0.00220	U	0.00220	U						
Iron	0.00900	U	0.00900	U						
Lead	0.00270	U	0.00270	U						
Magnesium	0.0153	U	0.0153	U						
Manganese	0.00160	U	0.00160	U						
Nickel	0.00240	U	0.00240	U						
Potassium	0.237	U	0.237	U						
Selenium	0.00350	U	0.00350	U						
Silver	0.00280	U	0.00280	U						
Sodium	0.120	U	0.120	U						
Thallium	0.00250	U	0.00250	U						
Vanadium	0.00200	U	0.00200	U						
Zinc	0.00210	U	0.00210	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1938684-2		R1938684-7		R1938684-9		R1938684-11		WG2036987-1	
Date Analyzed :	03/10/25 06:39		03/10/25 09:52		03/10/25 11:08		03/10/25 11:51		03/10/25 12:14	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1938684-4		R1938684-13		R1938684-15					
Date Analyzed :	03/10/25 06:52		03/10/25 13:25		03/10/25 14:48					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U				
Antimony	0.00710	U	0.00710	U	0.00710	U				
Arsenic	0.00190	U	0.00190	U	0.00190	U				
Barium	0.00210	U	0.00210	U	0.00210	U				
Beryllium	0.000900	U	0.000900	U	0.000900	U				
Cadmium	0.00100	U	0.00100	U	0.00100	U				
Calcium	0.0350	U	0.0350	U	0.0350	U				
Chromium	0.00210	U	0.00210	U	0.00210	U				
Cobalt	0.00170	U	0.00170	U	0.00170	U				
Copper	0.00220	U	0.00220	U	0.00220	U				
Iron	0.00900	U	0.00900	U	0.00900	U				
Lead	0.00270	U	0.00270	U	0.00270	U				
Magnesium	0.0153	U	0.0153	U	0.0153	U				
Manganese	0.00160	U	0.00160	U	0.00160	U				
Nickel	0.00240	U	0.00240	U	0.00240	U				
Potassium	0.237	U	0.237	U	0.237	U				
Selenium	0.00350	U	0.00350	U	0.00350	U				
Silver	0.00280	U	0.00280	U	0.00280	U				
Sodium	0.120	U	0.120	U	0.120	U				
Thallium	0.00250	U	0.00250	U	0.00250	U				
Vanadium	0.00200	U	0.00200	U	0.00200	U				
Zinc	0.00210	U	0.00210	U	0.00210	U				

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

			Initial Found				Final Found			
Lab ID :			R1937519-5							
Analysis Date :			03/06/25 06:58							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		501.	100						
Antimony			0.00751							
Arsenic			0.000322							
Barium			0.00126							
Beryllium			-0.0000927							
Cadmium			-0.00661							
Calcium	500		465.	93						
Chromium			-0.00142							
Cobalt			0.0000800							
Copper			0.00329							
Iron	200		182.	91						
Lead			-0.0124							
Magnesium	500		474.	95						
Manganese			-0.0000956							
Nickel			-0.00242							
Potassium			0.0237							
Selenium			-0.00868							
Silver			0.00216							
Sodium			0.0941							
Thallium			0.00114							
Vanadium			0.000544							
Zinc			0.00354							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1938000-3							
Analysis Date :			03/06/25 21:11							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		504.	101						
Antimony			0.00724							
Arsenic			-0.000858							
Barium			0.00123							
Beryllium			-0.0000469							
Cadmium			-0.00662							
Calcium	500		465.	93						
Chromium			-0.00172							
Cobalt			-0.000173							
Copper			0.00274							
Iron	200		183.	92						
Lead			-0.0132							
Magnesium	500		476.	95						
Manganese			0.000248							
Nickel			-0.00117							
Potassium			-0.00351							
Selenium			-0.0124							
Silver			0.00203							
Sodium			0.0739							
Thallium			0.00423							
Vanadium			0.000909							
Zinc			0.000433							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

		Initial Found				Final Found			
Lab ID :		R1938684-5							
Analysis Date :		03/10/25 07:05							
Analyte	**True Sol. A**	**True Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		481.	96						
Antimony			0.00368							
Arsenic			-0.00522							
Barium			0.00137							
Beryllium			-0.000158							
Cadmium			-0.00842							
Calcium	500		449.	90						
Chromium			0.00185							
Cobalt			0.000322							
Copper			0.00943							
Iron	200		174.	87						
Lead			-0.0105							
Magnesium	500		489.	98						
Manganese			-0.0000128							
Nickel			-0.00271							
Potassium			0.00762							
Selenium			0.00326							
Silver			0.00297							
Sodium			0.0336							
Thallium			-0.000311							
Vanadium			-0.000272							
Zinc			0.000642							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

		Initial Found				Final Found			
Lab ID :		R1938684-5							
Analysis Date :		03/10/25 07:05							
Analyte	**True Sol. A**	**True Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		481.	96						
Antimony			0.00368							
Arsenic			-0.00522							
Barium			0.00137							
Beryllium			-0.000158							
Cadmium			-0.00842							
Calcium	500		449.	90						
Chromium			0.00185							
Cobalt			0.000322							
Copper			0.00943							
Iron	200		174.	87						
Lead			-0.0105							
Magnesium	500		489.	98						
Manganese			-0.0000128							
Nickel			-0.00271							
Potassium			0.00762							
Selenium			0.00326							
Silver			0.00297							
Sodium			0.0336							
Thallium			-0.000311							
Vanadium			-0.000272							
Zinc			0.000642							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2510980-01		
Matrix Spike	: WG2036471-3	**MS Analysis Date**	: 03/06/25 09:45
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	0.032J	2	2.02	101						75-125	20
Antimony, Dissolved	ND	0.5	0.525	105						75-125	20
Arsenic, Dissolved	0.003J	0.12	0.124	103						75-125	20
Barium, Dissolved	0.045	2	2.00	98						75-125	20
Beryllium, Dissolved	ND	0.05	0.0500	100						75-125	20
Cadmium, Dissolved	ND	0.053	0.0523	99						75-125	20
Calcium, Dissolved	128	10	137.	90						75-125	20
Chromium, Dissolved	ND	0.2	0.194	97						75-125	20
Cobalt, Dissolved	ND	0.5	0.500	100						75-125	20
Copper, Dissolved	0.0180	0.25	0.268	100						75-125	20
Iron, Dissolved	0.018J	1	1.03	103						75-125	20
Lead, Dissolved	ND	0.53	0.504	95						75-125	20
Magnesium, Dissolved	9.18	10	18.0	88						75-125	20
Manganese, Dissolved	0.306	0.5	0.782	95						75-125	20
Nickel, Dissolved	ND	0.5	0.496	99						75-125	20
Potassium, Dissolved	32.4	10	42.6	102						75-125	20
Selenium, Dissolved	ND	0.12	0.118	98						75-125	20
Silver, Dissolved	ND	0.05	0.0490	98						75-125	20
Sodium, Dissolved	168	10	172.	40	Q					75-125	20
Thallium, Dissolved	ND	0.12	0.110	92						75-125	20
Vanadium, Dissolved	ND	0.5	0.487	97						75-125	20
Zinc, Dissolved	0.070	0.5	0.586	103						75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2511529
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: L2511114-01		
Matrix Spike	: WG2036987-3	MS Analysis Date	: 03/07/25 13:43
Matrix Spike Dup	:	MSD Analysis Date	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.09	104					75-125	20
Antimony, Total	ND	0.5	0.516	103					75-125	20
Arsenic, Total	ND	0.12	0.118	98					75-125	20
Barium, Total	0.089	2	2.11	101					75-125	20
Beryllium, Total	ND	0.05	0.0493	99					75-125	20
Cadmium, Total	ND	0.053	0.0524	99					75-125	20
Calcium, Total	35.7	10	45.0	93					75-125	20
Chromium, Total	ND	0.2	0.205	102					75-125	20
Cobalt, Total	0.002J	0.5	0.497	99					75-125	20
Copper, Total	ND	0.25	0.260	104					75-125	20
Iron, Total	0.512	1	1.54	103					75-125	20
Lead, Total	ND	0.53	0.477	90					75-125	20
Magnesium, Total	1.85	10	12.4	106					75-125	20
Manganese, Total	0.063	0.5	0.573	102					75-125	20
Nickel, Total	0.005J	0.5	0.528	106					75-125	20
Potassium, Total	2.09J	10	12.8	128 Q					75-125	20
Selenium, Total	ND	0.12	0.112	93					75-125	20
Silver, Total	ND	0.05	0.0532	106					75-125	20
Sodium, Total	41.5	10	50.8	93					75-125	20
Thallium, Total	ND	0.12	0.117	98					75-125	20
Vanadium, Total	ND	0.5	0.526	105					75-125	20
Zinc, Total	0.015	0.5	0.534	104					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2511529
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: L2511503-06		
Matrix Spike	: WG2036987-7	MS Analysis Date	: 03/10/25 14:17
Matrix Spike Dup	:	MSD Analysis Date	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.06	103						75-125	20
Antimony, Total	ND	0.5	0.543	109						75-125	20
Arsenic, Total	ND	0.12	0.122	102						75-125	20
Barium, Total	0.024	2	2.00	99						75-125	20
Beryllium, Total	ND	0.05	0.0524	105						75-125	20
Cadmium, Total	ND	0.053	0.0553	104						75-125	20
Calcium, Total	32.9	10	42.8	99						75-125	20
Chromium, Total	ND	0.2	0.208	104						75-125	20
Cobalt, Total	ND	0.5	0.523	105						75-125	20
Copper, Total	ND	0.25	0.267	107						75-125	20
Iron, Total	1.24	1	2.30	106						75-125	20
Lead, Total	ND	0.53	0.521	98						75-125	20
Magnesium, Total	4.49	10	14.4	99						75-125	20
Manganese, Total	0.400	0.5	0.914	103						75-125	20
Nickel, Total	ND	0.5	0.526	105						75-125	20
Potassium, Total	2.41J	10	12.9	129	Q					75-125	20
Selenium, Total	ND	0.12	0.0764	64	Q					75-125	20
Silver, Total	ND	0.05	0.0534	107						75-125	20
Sodium, Total	51.2	10	61.6	104						75-125	20
Thallium, Total	ND	0.12	0.116	97						75-125	20
Vanadium, Total	ND	0.5	0.526	105						75-125	20
Zinc, Total	0.010	0.5	0.547	107						75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/06/25 09:38
Dup Sample ID	: WG2036471-4	**DUP Analysis Date**	: 03/06/25 09:51

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Copper, Dissolved	0.0180	0.0175	3	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/07/25 13:37
Dup Sample ID	: WG2036987-4	**DUP Analysis Date**	: 03/07/25 13:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Total	ND	0.0324J	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/10/25 14:10
Dup Sample ID	: WG2036987-8	**DUP Analysis Date**	: 03/10/25 14:23

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Iron, Total	1.24	1.27	2	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036471-2	**LCS Analysis Date**	: 03/06/25 09:32
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	2.04	102.					85-115	20
Antimony, Dissolved	0.500	0.483	97.					85-115	20
Arsenic, Dissolved	0.120	0.113	94.					85-115	20
Barium, Dissolved	2.00	1.97	98.					85-115	20
Beryllium, Dissolved	0.0500	0.0506	101.					85-115	20
Cadmium, Dissolved	0.0530	0.0513	97.					85-115	20
Calcium, Dissolved	10.0	9.92	99.					85-115	20
Chromium, Dissolved	0.200	0.198	99.					85-115	20
Cobalt, Dissolved	0.500	0.487	97.					85-115	20
Copper, Dissolved	0.250	0.250	100.					85-115	20
Iron, Dissolved	1.00	1.04	104.					85-115	20
Lead, Dissolved	0.530	0.500	94.					85-115	20
Magnesium, Dissolved	10.0	9.66	97.					85-115	20
Manganese, Dissolved	0.500	0.502	100.					85-115	20
Nickel, Dissolved	0.500	0.490	98.					85-115	20
Potassium, Dissolved	10.0	10.1	101.					85-115	20
Selenium, Dissolved	0.120	0.112	93.					85-115	20
Silver, Dissolved	0.0500	0.0501	100.					85-115	20
Sodium, Dissolved	10.0	9.94	99.					85-115	20
Thallium, Dissolved	0.120	0.114	95.					85-115	20
Vanadium, Dissolved	0.500	0.493	99.					85-115	20
Zinc, Dissolved	0.500	0.490	98.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036987-2	**LCS Analysis Date**	: 03/07/25 13:18
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aluminum, Total	2.00	2.12	106.					85-115	20
Antimony, Total	0.500	0.504	101.					85-115	20
Barium, Total	2.00	2.05	102.					85-115	20
Beryllium, Total	0.0500	0.0499	100.					85-115	20
Cadmium, Total	0.0530	0.0530	100.					85-115	20
Calcium, Total	10.0	10.1	101.					85-115	20
Chromium, Total	0.200	0.208	104.					85-115	20
Cobalt, Total	0.500	0.494	99.					85-115	20
Copper, Total	0.250	0.261	104.					85-115	20
Iron, Total	1.00	1.06	106.					85-115	20
Lead, Total	0.530	0.483	91.					85-115	20
Magnesium, Total	10.0	11.0	110.					85-115	20
Manganese, Total	0.500	0.522	104.					85-115	20
Nickel, Total	0.500	0.526	105.					85-115	20
Potassium, Total	10.0	10.6	106.					85-115	20
Selenium, Total	0.120	0.111	92.					85-115	20
Silver, Total	0.0500	0.0545	109.					85-115	20
Sodium, Total	10.0	9.87	99.					85-115	20
Thallium, Total	0.120	0.118	98.					85-115	20
Vanadium, Total	0.500	0.531	106.					85-115	20
Zinc, Total	0.500	0.518	104.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036987-2	**LCS Analysis Date**	: 03/10/25 12:21
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Arsenic, Total	**0.120**	**0.118**	**98.**					**85-115**	**20**

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2511529**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG2036471-1	03/04/25 15:39	-	50
WG2036471-2	03/04/25 15:39	-	50
WG2036471-3	03/04/25 15:39	-	50
WG2036471-4	03/04/25 15:39	-	50

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2511529**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG2036987-1	03/05/25 20:08	-	50
WG2036987-2	03/05/25 20:08	-	50
WG2036987-3	03/05/25 20:08	-	50
WG2036987-4	03/05/25 20:08	-	50

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2511529**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2511529-01	03/04/25 15:39	-	50

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2511529**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2511529-01	03/05/25 20:08	-	50
WG2036987-1	03/05/25 20:08	-	50
WG2036987-2	03/05/25 20:08	-	50
WG2036987-7	03/05/25 20:08	-	50
WG2036987-8	03/05/25 20:08	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 03/06/25 06:27	**End Date**	: 03/06/25 10:16

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1937519-1 ICV	1	06:27:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-2 ICB	1	06:33:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-3 ICV	1	06:39:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-4 ICB	1	06:46:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-5 ICSA	1	06:58:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-6 CCV	1	08:58:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-7 CCB	1	09:04:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036471-1 BLANK	1	09:26:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036471-2 LCS	1	09:32:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036471-3 MS	1	09:45:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036471-4 DUP	1	09:51:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-8 CCV	1	10:10:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1937519-9 CCB	1	10:16:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 03/06/25 20:51	**End Date**	: 03/07/25 14:15

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1938000-1 ICV	1	20:51:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-2 ICB	1	20:58:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-3 ICSA	1	21:11:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-4 CCV	1	21:32:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-5 CCB	1	21:39:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-6 CCV	1	09:25:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-7 CCB	1	09:31:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-8 CCV	1	11:12:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-9 CCB	1	11:18:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-10 CCV	1	12:47:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-11 CCB	1	12:53:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036987-1 BLANK	1	13:11:51	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036987-2 LCS	1	13:18:24	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036987-3 MS	1	13:43:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036987-4 DUP	1	13:50:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-12 CCV	1	14:08:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938000-13 CCB	1	14:15:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 03/10/25 06:33	**End Date**	: 03/10/25 13:25

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1938684-1 ICV	1	06:33:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-2 ICB	1	06:39:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-3 ICV	1	06:46:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-4 ICB	1	06:52:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-5 ICSA	1	07:05:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-6 CCV	1	09:46:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-7 CCB	1	09:52:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-8 CCV	1	11:02:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-9 CCB	1	11:08:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-10 CCV	1	11:45:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-11 CCB	1	11:51:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2511529-01	1	12:54:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-12 CCV	1	13:19:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-13 CCB	1	13:25:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 03/10/25 06:33	**End Date**	: 03/10/25 14:48

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1938684-1 ICV	1	06:33:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-2 ICB	1	06:39:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-3 ICV	1	06:46:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-4 ICB	1	06:52:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-5 ICSA	1	07:05:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-6 CCV	1	09:46:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-7 CCB	1	09:52:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-8 CCV	1	11:02:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-9 CCB	1	11:08:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-10 CCV	1	11:45:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-11 CCB	1	11:51:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036987-1 BLANK	1	12:14:40			X																			
WG2036987-2 LCS	1	12:21:03			X																			
R1938684-12 CCV	1	13:19:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-13 CCB	1	13:25:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2511529-01	1	13:58:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036987-7 MS	1	14:17:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2036987-8 DUP	1	14:23:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-14 CCV	1	14:42:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1938684-15 CCB	1	14:48:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)

Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

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

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: Blank DMC Trace5
Analysis started at: 3/6/2025 6:02:31 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.7 %	96.5 %	0.8 %	0.0 %	-0.7 %	0.4 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.1 %	-0.1 %	0.0 %	1.9 %	0.2 %	-0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	1.1 %	0.5 %	0.8 %	-0.2 %	-1.6 %	-0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	0.1 %	0.4 %	-0.1 %	-0.1 %	-0.4 %	-0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.2 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

LabBook: WG2037194_03062025T5.imexp

Sample: ICAL
Analysis started at: 3/6/2025 6:08:55 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9997 ppm	24.5512 ppm	1.0028 ppm	1.0018 ppm	0.9825 ppm	0.9832 ppm	9.8183 ppm
Concentration per Run 2	1.0013 ppm	25.1978 ppm	0.9950 ppm	0.9977 ppm	1.0078 ppm	1.0075 ppm	10.0789 ppm
Concentration per Run 3	0.9990 ppm	25.2510 ppm	1.0022 ppm	1.0005 ppm	1.0098 ppm	1.0092 ppm	10.1028 ppm
Concentration RSD	0.1 %	1.6 %	0.4 %	0.2 %	1.5 %	1.5 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0011 ppm	1.0002 ppm	0.9998 ppm	0.9995 ppm	24.5407 ppm	34.4295 ppm	0.9821 ppm
Concentration per Run 2	0.9990 ppm	0.9992 ppm	1.0010 ppm	0.9997 ppm	25.2040 ppm	35.3223 ppm	1.0092 ppm
Concentration per Run 3	0.9999 ppm	1.0007 ppm	0.9992 ppm	1.0008 ppm	25.2554 ppm	35.2483 ppm	1.0087 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %	1.6 %	1.4 %	1.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9830 ppm	0.9812 ppm	0.9977 ppm	24.6161 ppm	1.0005 ppm	1.0012 ppm	1.0003 ppm
Concentration per Run 2	10.0291 ppm	1.0104 ppm	0.9991 ppm	25.1823 ppm	0.9997 ppm	1.0005 ppm	0.9985 ppm
Concentration per Run 3	9.9878 ppm	1.0084 ppm	1.0032 ppm	25.2017 ppm	0.9998 ppm	0.9983 ppm	1.0012 ppm
Concentration RSD	0.3 %	1.6 %	0.3 %	1.3 %	0.0 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0005 ppm	10.0129 ppm	1.0014 ppm	0.9829 ppm	1.0002 ppm	1.0013 ppm	0.9999 ppm
Concentration per Run 2	1.0001 ppm	9.9899 ppm	0.9973 ppm	1.0101 ppm	1.0009 ppm	0.9993 ppm	1.0012 ppm
Concentration per Run 3	0.9994 ppm	9.9972 ppm	1.0012 ppm	1.0069 ppm	0.9989 ppm	0.9994 ppm	0.9989 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	1.5 %	0.1 %	0.1 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	99.3343 %	96.4999 %	95.9615 %	101.3364 %	93.5099 %	99.3796 %
Concentration per Run 1	1.0018 ppm	101.1006 %	96.5829 %	95.8291 %	102.8193 %	93.4835 %	99.5324 %
Concentration per Run 2	0.9990 ppm	99.0516 %	96.3218 %	96.2028 %	101.1735 %	93.6145 %	99.1287 %
Concentration per Run 3	0.9992 ppm	97.8507 %	96.5949 %	95.8526 %	100.0165 %	93.4317 %	99.4777 %
Concentration RSD	0.2 %	1.7 %	0.2 %	0.2 %	1.4 %	0.1 %	0.2 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: ICV
Analysis started at: 3/6/2025 6:27:14 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4957 ppm	0.5137 ppm	0.4747 ppm	0.4789 ppm	0.4857 ppm	0.5118 ppm	0.5143 ppm
Concentration per Run 1	0.4955 ppm	0.5140 ppm	0.4756 ppm	0.4791 ppm	0.4867 ppm	0.5129 ppm	0.5165 ppm
Concentration per Run 2	0.4970 ppm	0.5196 ppm	0.4738 ppm	0.4791 ppm	0.4861 ppm	0.5136 ppm	0.5111 ppm
Concentration per Run 3	0.4947 ppm	0.5074 ppm	0.4747 ppm	0.4786 ppm	0.4845 ppm	0.5089 ppm	0.5154 ppm
Recovery Percentage 1	99.144 %	102.732 %	94.943 %	95.782 %	97.147 %	102.359 %	102.868 %
Concentration RSD	0.2 %	1.2 %	0.2 %	0.1 %	0.2 %	0.5 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4809 ppm	0.4906 ppm	0.4912 ppm	0.4831 ppm	0.5284 ppm	5.2211 ppm	0.4948 ppm
Concentration per Run 1	0.4815 ppm	0.4909 ppm	0.4912 ppm	0.4829 ppm	0.5265 ppm	5.2414 ppm	0.4954 ppm
Concentration per Run 2	0.4811 ppm	0.4910 ppm	0.4927 ppm	0.4828 ppm	0.5290 ppm	5.2644 ppm	0.4955 ppm
Concentration per Run 3	0.4803 ppm	0.4898 ppm	0.4898 ppm	0.4837 ppm	0.5296 ppm	5.1575 ppm	0.4936 ppm
Recovery Percentage 1	96.186 %	98.110 %	98.242 %	96.624 %	105.670 %	104.422 %	98.968 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	0.3 %	1.1 %	0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5035 ppm	0.5047 ppm	0.4761 ppm	10.1807 ppm	0.4928 ppm	0.4919 ppm	0.4886 ppm
Concentration per Run 1	0.5052 ppm	0.5055 ppm	0.4746 ppm	10.2165 ppm	0.4926 ppm	0.4921 ppm	0.4883 ppm
Concentration per Run 2	0.4998 ppm	0.5066 ppm	0.4767 ppm	10.2236 ppm	0.4939 ppm	0.4934 ppm	0.4901 ppm
Concentration per Run 3	0.5054 ppm	0.5019 ppm	0.4771 ppm	10.1019 ppm	0.4919 ppm	0.4902 ppm	0.4874 ppm
Recovery Percentage 1	100.696 %	100.935 %	95.228 %	101.807 %	98.566 %	98.379 %	97.721 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.7 %	0.2 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4784 ppm	5.3172 ppm	0.4923 ppm	0.4957 ppm	0.4947 ppm	0.4968 ppm	0.4872 ppm
Concentration per Run 1	0.4792 ppm	5.3235 ppm	0.4919 ppm	0.4970 ppm	0.4947 ppm	0.4971 ppm	0.4881 ppm
Concentration per Run 2	0.4779 ppm	5.3232 ppm	0.4918 ppm	0.4978 ppm	0.4965 ppm	0.4982 ppm	0.4879 ppm
Concentration per Run 3	0.4780 ppm	5.3048 ppm	0.4932 ppm	0.4922 ppm	0.4931 ppm	0.4950 ppm	0.4858 ppm
Recovery Percentage 1	95.674 %	101.280 %	98.461 %	99.133 %	98.947 %	99.351 %	97.449 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.6 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4858 ppm	99.1262 %	99.5636 %	98.8414 %	99.5691 %	97.8181 %	100.9717 %
Concentration per Run 1	0.4864 ppm	98.3223 %	99.2911 %	98.7291 %	99.0664 %	97.7271 %	100.8488 %
Concentration per Run 2	0.4859 ppm	99.3345 %	99.6760 %	98.7939 %	99.0469 %	97.8270 %	100.7176 %
Concentration per Run 3	0.4851 ppm	99.7218 %	99.7236 %	99.0013 %	100.5942 %	97.9003 %	101.3487 %
Recovery Percentage 1	97.163 %						
Concentration RSD	0.1 %	0.7 %	0.2 %	0.1 %	0.9 %	0.1 %	0.3 %

LabBook: WG2037194_03062025T5.imexp

Sample: ICB
Analysis started at: 3/6/2025 6:33:21 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0016 ppm	0.0005 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 1	-0.0001 ppm	-0.0098 ppm	0.0008 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0002 ppm	-0.0090 ppm	0.0007 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	-0.0057 ppm
Concentration per Run 3	0.0002 ppm	0.0139 ppm	-0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0050 ppm
Recovery Percentage 1	1.818 %	-1.640 %	9.625 %	3.556 %	0.303 %	0.486 %	-2.467 %
Concentration RSD	131.6 %	822.2 %	104.6 %	2.5 %	541.0 %	125.2 %	203.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0097 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0011 ppm	0.0399 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0012 ppm	-0.0190 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0082 ppm	-0.0021 ppm
Recovery Percentage 1	0.226 %	0.651 %	2.519 %	-0.439 %	1.843 %	0.388 %	-15.887 %
Concentration RSD	223.8 %	85.7 %	50.6 %	75.5 %	48.1 %	303.7 %	36.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0002 ppm	0.0006 ppm	0.0083 ppm	-0.0001 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 1	-0.0023 ppm	0.0004 ppm	0.0006 ppm	0.0116 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0119 ppm	0.0000 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0015 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm
Recovery Percentage 1	-0.682 %	2.057 %	1.128 %	0.417 %	-0.316 %	4.319 %	2.093 %
Concentration RSD	206.4 %	104.6 %	12.9 %	71.0 %	153.1 %	19.3 %	36.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	0.0008 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0003 ppm	0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0003 ppm
Recovery Percentage 1	4.703 %	0.109 %	0.911 %	0.607 %	1.562 %	4.300 %	1.451 %
Concentration RSD	204.1 %	43.6 %	100.2 %	27.9 %	209.6 %	40.3 %	104.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	100.6579 %	99.8469 %	99.1327 %	99.7541 %	99.4349 %	99.9440 %
Concentration per Run 1	-0.0001 ppm	100.7974 %	101.7927 %	98.5500 %	99.7902 %	99.1472 %	102.1695 %
Concentration per Run 2	-0.0001 ppm	100.0855 %	97.4801 %	99.6347 %	99.0720 %	99.7947 %	97.3761 %
Concentration per Run 3	-0.0001 ppm	101.0907 %	100.2678 %	99.2134 %	100.4001 %	99.3629 %	100.2865 %
Recovery Percentage 1	-2.065 %						
Concentration RSD	15.8 %	0.5 %	2.2 %	0.6 %	0.7 %	0.3 %	2.4 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: ICV
Analysis started at: 3/6/2025 6:39:56 AM
Comments position change
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4886 ppm	0.4877 ppm	0.4765 ppm	0.4805 ppm	0.4785 ppm	0.5025 ppm	0.5184 ppm
Concentration per Run 1	0.4902 ppm	0.4903 ppm	0.4770 ppm	0.4804 ppm	0.4750 ppm	0.4984 ppm	0.5194 ppm
Concentration per Run 2	0.4844 ppm	0.4905 ppm	0.4772 ppm	0.4814 ppm	0.4795 ppm	0.5039 ppm	0.5169 ppm
Concentration per Run 3	0.4912 ppm	0.4823 ppm	0.4753 ppm	0.4798 ppm	0.4809 ppm	0.5051 ppm	0.5188 ppm
Recovery Percentage 1	97.719 %	97.542 %	95.299 %	96.106 %	95.695 %	100.496 %	103.673 %
Concentration RSD	0.7 %	1.0 %	0.2 %	0.2 %	0.6 %	0.7 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4819 ppm	0.4917 ppm	0.4869 ppm	0.4759 ppm	0.5170 ppm	5.0676 ppm	0.4826 ppm
Concentration per Run 1	0.4819 ppm	0.4921 ppm	0.4900 ppm	0.4781 ppm	0.5125 ppm	5.0177 ppm	0.4780 ppm
Concentration per Run 2	0.4830 ppm	0.4928 ppm	0.4821 ppm	0.4718 ppm	0.5198 ppm	5.0811 ppm	0.4843 ppm
Concentration per Run 3	0.4808 ppm	0.4902 ppm	0.4885 ppm	0.4779 ppm	0.5186 ppm	5.1039 ppm	0.4854 ppm
Recovery Percentage 1	96.377 %	98.341 %	97.371 %	95.181 %	103.392 %	101.351 %	96.512 %
Concentration RSD	0.2 %	0.3 %	0.9 %	0.8 %	0.8 %	0.9 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4942 ppm	0.4905 ppm	0.4773 ppm	9.9877 ppm	0.4923 ppm	0.4936 ppm	0.4928 ppm
Concentration per Run 1	0.4943 ppm	0.4866 ppm	0.4770 ppm	9.9096 ppm	0.4922 ppm	0.4944 ppm	0.4941 ppm
Concentration per Run 2	0.4912 ppm	0.4922 ppm	0.4787 ppm	10.0292 ppm	0.4946 ppm	0.4948 ppm	0.4953 ppm
Concentration per Run 3	0.4970 ppm	0.4928 ppm	0.4763 ppm	10.0243 ppm	0.4902 ppm	0.4917 ppm	0.4890 ppm
Recovery Percentage 1	98.835 %	98.102 %	95.461 %	99.877 %	98.462 %	98.724 %	98.562 %
Concentration RSD	0.6 %	0.7 %	0.3 %	0.7 %	0.4 %	0.3 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4781 ppm	5.3969 ppm	0.4838 ppm	0.4890 ppm	0.4870 ppm	0.4973 ppm	0.4805 ppm
Concentration per Run 1	0.4797 ppm	5.4059 ppm	0.4841 ppm	0.4848 ppm	0.4897 ppm	0.4972 ppm	0.4830 ppm
Concentration per Run 2	0.4761 ppm	5.4112 ppm	0.4850 ppm	0.4906 ppm	0.4816 ppm	0.4990 ppm	0.4753 ppm
Concentration per Run 3	0.4785 ppm	5.3738 ppm	0.4823 ppm	0.4917 ppm	0.4897 ppm	0.4956 ppm	0.4831 ppm
Recovery Percentage 1	95.625 %	102.799 %	96.759 %	97.804 %	97.402 %	99.459 %	96.092 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.8 %	1.0 %	0.3 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4891 ppm	99.3829 %	97.9839 %	97.3804 %	101.3488 %	96.8126 %	100.8167 %
Concentration per Run 1	0.4886 ppm	99.6885 %	97.3281 %	97.6334 %	101.8707 %	96.8552 %	100.2816 %
Concentration per Run 2	0.4906 ppm	99.0238 %	99.3398 %	97.0996 %	101.0664 %	96.5804 %	102.0555 %
Concentration per Run 3	0.4882 ppm	99.4363 %	97.2837 %	97.4080 %	101.1094 %	97.0021 %	100.1129 %
Recovery Percentage 1	97.826 %						
Concentration RSD	0.3 %	0.3 %	1.2 %	0.3 %	0.4 %	0.2 %	1.1 %

LabBook: WG2037194_03062025T5.imexp

Sample: ICB
Analysis started at: 3/6/2025 6:46:07 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0057 ppm	-0.0016 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	0.0028 ppm	-0.0025 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 2	0.0005 ppm	0.0070 ppm	0.0002 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	-0.0032 ppm
Concentration per Run 3	-0.0003 ppm	0.0074 ppm	-0.0026 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	-0.0066 ppm
Recovery Percentage 1	0.857 %	5.726 %	-32.665 %	4.423 %	1.047 %	-0.027 %	-4.116 %
Concentration RSD	673.7 %	44.7 %	98.5 %	19.6 %	150.8 %	3,566.2 %	52.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0008 ppm	-0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0025 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0013 ppm	-0.0277 ppm	-0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0277 ppm	-0.0018 ppm
Recovery Percentage 1	0.470 %	-0.409 %	0.488 %	-1.671 %	-1.085 %	0.033 %	-15.391 %
Concentration RSD	89.1 %	139.2 %	86.0 %	91.3 %	130.1 %	3,366.2 %	41.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0016 ppm	0.0001 ppm	0.0006 ppm	-0.0062 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0008 ppm	-0.0121 ppm	-0.0002 ppm	0.0004 ppm	0.0007 ppm
Concentration per Run 2	-0.0013 ppm	0.0001 ppm	0.0005 ppm	-0.0071 ppm	0.0000 ppm	0.0009 ppm	0.0013 ppm
Concentration per Run 3	-0.0033 ppm	-0.0001 ppm	0.0005 ppm	0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0008 ppm
Recovery Percentage 1	-1.575 %	1.189 %	1.168 %	-0.309 %	-0.744 %	4.941 %	1.926 %
Concentration RSD	103.1 %	248.0 %	26.5 %	103.5 %	70.7 %	85.2 %	31.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	0.0004 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0007 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	-0.0050 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-15.367 %	0.080 %	0.625 %	-0.622 %	1.846 %	4.591 %	0.054 %
Concentration RSD	197.2 %	31.6 %	110.2 %	138.5 %	50.4 %	21.1 %	1,197.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	100.7233 %	98.7392 %	98.5854 %	100.4791 %	99.4607 %	100.6100 %
Concentration per Run 1	-0.0001 ppm	101.9229 %	98.4158 %	98.9173 %	100.6866 %	99.8436 %	100.4216 %
Concentration per Run 2	-0.0002 ppm	100.1043 %	98.9327 %	98.0547 %	100.3530 %	99.0648 %	100.6551 %
Concentration per Run 3	-0.0001 ppm	100.1427 %	98.8690 %	98.7843 %	100.3978 %	99.4739 %	100.7533 %
Recovery Percentage 1	-2.962 %						
Concentration RSD	57.2 %	1.0 %	0.3 %	0.5 %	0.2 %	0.4 %	0.2 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: LLOQ RL
Analysis started at: 3/6/2025 6:52:33 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0052 ppm	0.1041 ppm	0.0041 ppm	0.0313 ppm	0.0098 ppm	0.0051 ppm	0.1127 ppm
Concentration per Run 1	0.0054 ppm	0.0994 ppm	0.0044 ppm	0.0313 ppm	0.0096 ppm	0.0050 ppm	0.1089 ppm
Concentration per Run 2	0.0055 ppm	0.1069 ppm	0.0037 ppm	0.0311 ppm	0.0097 ppm	0.0052 ppm	0.1096 ppm
Concentration per Run 3	0.0048 ppm	0.1061 ppm	0.0043 ppm	0.0314 ppm	0.0100 ppm	0.0052 ppm	0.1198 ppm
Recovery Percentage 1	104.501 %	104.111 %	82.662 %	104.215 %	97.868 %	102.513 %	112.748 %
Concentration RSD	7.3 %	4.0 %	9.7 %	0.5 %	1.8 %	1.7 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0101 ppm	0.0103 ppm	0.0100 ppm	0.0570 ppm	2.5558 ppm	0.0085 ppm
Concentration per Run 1	0.0041 ppm	0.0102 ppm	0.0102 ppm	0.0098 ppm	0.0560 ppm	2.5322 ppm	0.0090 ppm
Concentration per Run 2	0.0041 ppm	0.0101 ppm	0.0103 ppm	0.0100 ppm	0.0568 ppm	2.5265 ppm	0.0079 ppm
Concentration per Run 3	0.0041 ppm	0.0101 ppm	0.0104 ppm	0.0101 ppm	0.0584 ppm	2.6088 ppm	0.0087 ppm
Recovery Percentage 1	102.233 %	101.300 %	103.124 %	99.905 %	114.077 %	102.232 %	85.035 %
Concentration RSD	0.8 %	0.5 %	1.4 %	1.5 %	2.1 %	1.8 %	6.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1064 ppm	0.0105 ppm	0.0499 ppm	2.0387 ppm	0.0197 ppm	0.0105 ppm	0.0513 ppm
Concentration per Run 1	0.1051 ppm	0.0104 ppm	0.0497 ppm	2.0075 ppm	0.0197 ppm	0.0105 ppm	0.0524 ppm
Concentration per Run 2	0.1074 ppm	0.0103 ppm	0.0500 ppm	2.0515 ppm	0.0197 ppm	0.0109 ppm	0.0513 ppm
Concentration per Run 3	0.1066 ppm	0.0107 ppm	0.0500 ppm	2.0570 ppm	0.0197 ppm	0.0100 ppm	0.0503 ppm
Recovery Percentage 1	106.395 %	104.622 %	99.833 %	101.933 %	98.636 %	104.782 %	102.649 %
Concentration RSD	1.1 %	2.3 %	0.3 %	1.3 %	0.1 %	4.6 %	2.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0089 ppm	0.5283 ppm	0.0509 ppm	0.0098 ppm	0.0103 ppm	0.0206 ppm	0.0103 ppm
Concentration per Run 1	0.0101 ppm	0.5291 ppm	0.0500 ppm	0.0095 ppm	0.0103 ppm	0.0215 ppm	0.0102 ppm
Concentration per Run 2	0.0075 ppm	0.5295 ppm	0.0517 ppm	0.0098 ppm	0.0103 ppm	0.0208 ppm	0.0102 ppm
Concentration per Run 3	0.0089 ppm	0.5262 ppm	0.0509 ppm	0.0100 ppm	0.0104 ppm	0.0195 ppm	0.0105 ppm
Recovery Percentage 1	88.572 %	105.654 %	101.757 %	97.726 %	103.328 %	102.895 %	102.951 %
Concentration RSD	14.9 %	0.3 %	1.7 %	2.7 %	0.7 %	4.8 %	1.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0062 ppm	100.8843 %	98.1576 %	97.4343 %	101.5088 %	97.4536 %	101.4024 %
Concentration per Run 1	0.0061 ppm	102.3372 %	98.0736 %	97.2920 %	102.6572 %	97.4720 %	101.5417 %
Concentration per Run 2	0.0062 ppm	100.8642 %	97.9594 %	97.5425 %	101.3251 %	97.5256 %	101.0509 %
Concentration per Run 3	0.0063 ppm	99.4514 %	98.4400 %	97.4684 %	100.5442 %	97.3631 %	101.6147 %
Recovery Percentage 1	123.982 %						
Concentration RSD	1.7 %	1.4 %	0.3 %	0.1 %	1.1 %	0.1 %	0.3 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: ICSA
Analysis started at: 3/6/2025 6:58:56 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	501.2225 [SIC 500]	0.0003 ppm	-0.0102 ppm	0.0013 ppm	-0.0001 ppm	465.2701 ppm
Concentration per Run 1	0.0020 ppm	497.7212 ppm	-0.0004 ppm	-0.0100 ppm	0.0014 ppm	-0.0001 ppm	457.9080 ppm
Concentration per Run 2	0.0022 ppm	504.7068 ppm	0.0000 ppm	-0.0094 ppm	0.0011 ppm	-0.0001 ppm	469.5790 ppm
Concentration per Run 3	0.0023 ppm	501.2394 ppm	0.0014 ppm	-0.0112 ppm	0.0013 ppm	-0.0001 ppm	468.3232 ppm
Recovery Percentage 1	30.828 %	501,222.472 %	6.441 %	-34.051 %	12.593 %	-1.854 %	465,270.102 %
Concentration RSD	8.0 %	0.7 %	287.3 %	8.6 %	15.4 %	11.3 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0066 ppm	0.0001 ppm	-0.0014 ppm	0.0033 ppm	182.2297 ppm	0.0237 ppm	-0.0048 ppm
Concentration per Run 1	-0.0066 ppm	0.0001 ppm	-0.0016 ppm	0.0027 ppm	176.4212 ppm	0.0313 ppm	-0.0041 ppm
Concentration per Run 2	-0.0066 ppm	-0.0001 ppm	-0.0014 ppm	0.0036 ppm	185.8900 ppm	0.0275 ppm	-0.0055 ppm
Concentration per Run 3	-0.0066 ppm	0.0002 ppm	-0.0013 ppm	0.0037 ppm	184.3778 ppm	0.0122 ppm	-0.0048 ppm
Recovery Percentage 1	-165.235 %	0.400 %	-14.214 %	32.896 %	364,459.350 %	0.946 %	-48.095 %
Concentration RSD	0.3 %	162.2 %	10.8 %	16.5 %	2.8 %	42.9 %	14.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	473.7307 ppm	-0.0001 ppm	-0.0009 ppm	0.0941 ppm	-0.0024 ppm	-0.0124 ppm	0.0075 ppm
Concentration per Run 1	472.8668 ppm	-0.0003 ppm	-0.0013 ppm	0.0813 ppm	-0.0028 ppm	-0.0123 ppm	0.0076 ppm
Concentration per Run 2	473.7920 ppm	0.0001 ppm	-0.0010 ppm	0.0886 ppm	-0.0023 ppm	-0.0136 ppm	0.0059 ppm
Concentration per Run 3	474.5334 ppm	-0.0001 ppm	-0.0006 ppm	0.1123 ppm	-0.0023 ppm	-0.0114 ppm	0.0090 ppm
Recovery Percentage 1	473,730.713 %	-0.956 %	-1.882 %	4.704 %	-9.701 %	-124.469 %	15.015 %
Concentration RSD	0.2 %	191.0 %	36.4 %	17.2 %	11.8 %	8.9 %	21.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0087 ppm	-0.0045 ppm	0.0033 ppm	0.0055 ppm	-0.0013 ppm	0.0011 ppm	0.0005 ppm
Concentration per Run 1	-0.0083 ppm	-0.0037 ppm	0.0029 ppm	0.0054 ppm	-0.0012 ppm	0.0027 ppm	0.0005 ppm
Concentration per Run 2	-0.0116 ppm	-0.0073 ppm	0.0026 ppm	0.0056 ppm	-0.0014 ppm	0.0017 ppm	0.0004 ppm
Concentration per Run 3	-0.0061 ppm	-0.0025 ppm	0.0042 ppm	0.0055 ppm	-0.0013 ppm	-0.0010 ppm	0.0007 ppm
Recovery Percentage 1	-86.857 %	-0.903 %	6.504 %	55.061 %	-13.069 %	5.727 %	5.441 %
Concentration RSD	31.5 %	56.0 %	25.8 %	2.2 %	5.8 %	165.3 %	28.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0035 ppm	95.0063 %	84.9575 %	84.7857 %	95.8505 %	74.5188 %	88.2667 %
Concentration per Run 1	0.0039 ppm	96.2765 %	85.0437 %	83.8891 %	97.5667 %	73.7035 %	88.3869 %
Concentration per Run 2	0.0034 ppm	94.1361 %	85.3796 %	86.0765 %	94.7949 %	75.7101 %	88.3655 %
Concentration per Run 3	0.0034 ppm	94.6063 %	84.4490 %	84.3914 %	95.1898 %	74.1428 %	88.0476 %
Recovery Percentage 1	70.800 %						
Concentration RSD	8.6 %	1.2 %	0.6 %	1.4 %	1.6 %	1.4 %	0.2 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: SIC Multi
Analysis started at: 3/6/2025 7:18:13 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	0.0056 ppm	-0.0060 ppm	0.0016 ppm	0.0003 ppm	-0.0063 ppm	0.0008 ppm
Concentration per Run 1	0.0007 ppm	0.0006 ppm	-0.0044 ppm	0.0013 ppm	0.0001 ppm	-0.0062 ppm	0.0008 ppm
Concentration per Run 2	0.0008 ppm	0.0138 ppm	-0.0083 ppm	0.0018 ppm	0.0005 ppm	-0.0062 ppm	0.0021 ppm
Concentration per Run 3	0.0008 ppm	0.0025 ppm	-0.0053 ppm	0.0017 ppm	0.0003 ppm	-0.0065 ppm	-0.0006 ppm
Recovery Percentage 1	10.795 %	5.645 %	-120.290 %	5.336 %	2.911 %	-125.643 %	0.755 %
Concentration RSD	8.8 %	126.9 %	34.3 %	17.0 %	54.8 %	2.4 %	178.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0020 ppm	0.0093 ppm	19.8360 ppm	-0.0022 ppm	0.0004 ppm	-0.0245 ppm	-0.0014 ppm
Concentration per Run 1	0.0020 ppm	0.0092 ppm	19.9010 ppm	-0.0016 ppm	0.0007 ppm	-0.0088 ppm	-0.0024 ppm
Concentration per Run 2	0.0021 ppm	0.0091 ppm	19.7033 ppm	-0.0018 ppm	0.0012 ppm	-0.0373 ppm	-0.0014 ppm
Concentration per Run 3	0.0020 ppm	0.0095 ppm	19.9037 ppm	-0.0031 ppm	-0.0006 ppm	-0.0273 ppm	-0.0004 ppm
Recovery Percentage 1	50.547 %	46.465 %	198,359.991 %	-21.777 %	0.870 %	-0.979 %	-13.685 %
Concentration RSD	2.3 %	2.4 %	0.6 %	35.7 %	210.1 %	59.2 %	72.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0665 ppm	20.3293 [SIC 25]	0.0035 ppm	0.0253 ppm	0.0004 ppm	0.0018 ppm	0.0043 ppm
Concentration per Run 1	-0.0683 ppm	20.5293 ppm	0.0035 ppm	0.0238 ppm	0.0004 ppm	0.0017 ppm	0.0042 ppm
Concentration per Run 2	-0.0629 ppm	20.2626 ppm	0.0034 ppm	0.0259 ppm	0.0003 ppm	0.0020 ppm	0.0028 ppm
Concentration per Run 3	-0.0684 ppm	20.1958 ppm	0.0036 ppm	0.0261 ppm	0.0005 ppm	0.0017 ppm	0.0059 ppm
Recovery Percentage 1	-66.507 %	203,292.534 %	6.979 %	1.263 %	1.634 %	18.044 %	8.677 %
Concentration RSD	4.7 %	0.9 %	3.0 %	5.2 %	17.9 %	10.1 %	35.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0060 ppm	-0.0613 ppm	-0.0011 ppm	0.0002 ppm	19.1195 ppm	-0.0047 ppm	9.7540 ppm
Concentration per Run 1	-0.0058 ppm	-0.0616 ppm	-0.0010 ppm	0.0001 ppm	19.3292 ppm	-0.0047 ppm	9.8397 ppm
Concentration per Run 2	-0.0057 ppm	-0.0623 ppm	-0.0007 ppm	0.0001 ppm	18.9575 ppm	-0.0046 ppm	9.5975 ppm
Concentration per Run 3	-0.0064 ppm	-0.0601 ppm	-0.0015 ppm	0.0002 ppm	19.0718 ppm	-0.0046 ppm	9.8249 ppm
Recovery Percentage 1	-59.701 %	-12.264 %	-2.159 %	1.613 %	191,194.803 %	-23.291 %	97,540.233 %
Concentration RSD	6.6 %	1.8 %	33.4 %	38.2 %	1.0 %	1.5 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0032 ppm	99.5563 %	100.8490 %	100.6164 %	101.1021 %	99.2001 %	102.0509 %
Concentration per Run 1	-0.0035 ppm	98.4036 %	99.9574 %	100.6168 %	99.7972 %	99.2852 %	101.3290 %
Concentration per Run 2	-0.0029 ppm	99.7611 %	102.0361 %	100.5653 %	101.6445 %	99.1242 %	103.2307 %
Concentration per Run 3	-0.0033 ppm	100.5043 %	100.5534 %	100.6670 %	101.8647 %	99.1908 %	101.5929 %
Recovery Percentage 1	-64.459 %						
Concentration RSD	10.0 %	1.1 %	1.1 %	0.1 %	1.1 %	0.1 %	1.0 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: LDR Check
Analysis started at: 3/6/2025 7:25:04 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	0.0486 ppm	20.8219 ppm	22.6107 [SIC 20]	18.8158 ppm	4.9613 ppm	0.0045 ppm
Concentration per Run 1	0.0029 ppm	0.0518 ppm	20.7282 ppm	22.5923 ppm	18.5523 ppm	4.9009 ppm	0.0041 ppm
Concentration per Run 2	0.0023 ppm	0.0338 ppm	20.8615 ppm	22.5374 ppm	18.9667 ppm	5.0106 ppm	0.0046 ppm
Concentration per Run 3	0.0029 ppm	0.0601 ppm	20.8762 ppm	22.7024 ppm	18.9283 ppm	4.9724 ppm	0.0049 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.110 %	113.053 %	94.079 %	99.226 %	0.000 %
Concentration RSD	11.8 %	27.6 %	0.4 %	0.4 %	1.2 %	1.1 %	8.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9059 ppm	4.8057 ppm	0.0018 ppm	19.5786 ppm	0.0040 ppm	512.1865 ppm	19.8189 ppm
Concentration per Run 1	4.8933 ppm	4.7898 ppm	0.0019 ppm	19.6200 ppm	0.0027 ppm	503.0329 ppm	19.6804 ppm
Concentration per Run 2	4.9135 ppm	4.8120 ppm	0.0019 ppm	19.4666 ppm	0.0048 ppm	519.5071 ppm	19.9445 ppm
Concentration per Run 3	4.9109 ppm	4.8151 ppm	0.0017 ppm	19.6491 ppm	0.0046 ppm	514.0196 ppm	19.8319 ppm
Recovery Percentage 1	98.118 %	96.113 %	0.000 %	97.893 %	0.000 %	102.437 %	99.095 %
Concentration RSD	0.2 %	0.3 %	5.5 %	0.5 %	28.3 %	1.6 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0238 ppm	0.0011 ppm	4.9765 ppm	405.2157 [SIC 500]	9.3938 ppm	48.0785 ppm	5.1679 ppm
Concentration per Run 1	-0.0227 ppm	0.0010 ppm	4.9516 ppm	419.6358 ppm	9.3556 ppm	47.9606 ppm	5.1466 ppm
Concentration per Run 2	-0.0252 ppm	0.0012 ppm	4.9856 ppm	403.1906 ppm	9.4136 ppm	48.1597 ppm	5.1699 ppm
Concentration per Run 3	-0.0235 ppm	0.0011 ppm	4.9925 ppm	392.8205 ppm	9.4121 ppm	48.1152 ppm	5.1872 ppm
Recovery Percentage 1	0.000 %	0.000 %	99.531 %	81.043 %	93.938 %	96.157 %	103.357 %
Concentration RSD	5.3 %	12.0 %	0.4 %	3.3 %	0.4 %	0.2 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.9780 ppm	21.6249 [SIC 100]	9.2819 ppm	4.8938 ppm	0.0057 ppm	4.3954 ppm	0.0179 ppm
Concentration per Run 1	4.9590 ppm	21.5188 ppm	9.2491 ppm	4.8143 ppm	0.0058 ppm	4.3789 ppm	0.0179 ppm
Concentration per Run 2	4.9842 ppm	21.6562 ppm	9.3016 ppm	4.9785 ppm	0.0058 ppm	4.4041 ppm	0.0177 ppm
Concentration per Run 3	4.9908 ppm	21.6998 ppm	9.2951 ppm	4.8887 ppm	0.0054 ppm	4.4031 ppm	0.0181 ppm
Recovery Percentage 1	99.560 %	108.125 %	92.819 %	97.877 %	0.000 %	87.907 %	0.000 %
Concentration RSD	0.3 %	0.4 %	0.3 %	1.7 %	3.5 %	0.3 %	1.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	20.0312 [SIC 50]	96.6171 %	88.1452 %	73.2455 %	97.4829 %	85.6913 %	89.8989 %
Concentration per Run 1	20.0114 ppm	97.1372 %	88.2476 %	73.1892 %	98.2474 %	85.9068 %	89.7644 %
Concentration per Run 2	20.0542 ppm	96.0466 %	88.2381 %	73.4350 %	96.8194 %	85.5009 %	90.0585 %
Concentration per Run 3	20.0279 ppm	96.6675 %	87.9501 %	73.1123 %	97.3817 %	85.6662 %	89.8739 %
Recovery Percentage 1	100.156 %						
Concentration RSD	0.1 %	0.6 %	0.2 %	0.2 %	0.7 %	0.2 %	0.2 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: LLOQ 0.005 ZN PASS
Analysis started at: 3/6/2025 7:45:30 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0055 ppm	**0.0074 ppm**	**0.0061 ppm**	**0.0171 ppm**	0.0052 ppm	0.0055 ppm	0.0107 ppm
Concentration per Run 1	0.0054 ppm	0.0093 ppm	0.0071 ppm	0.0169 ppm	0.0053 ppm	0.0056 ppm	0.0112 ppm
Concentration per Run 2	0.0054 ppm	0.0075 ppm	0.0068 ppm	0.0170 ppm	0.0053 ppm	0.0055 ppm	0.0122 ppm
Concentration per Run 3	0.0056 ppm	0.0055 ppm	0.0045 ppm	0.0173 ppm	0.0050 ppm	0.0053 ppm	0.0085 ppm
Recovery Percentage 1	109.128 %	148.177 %	122.531 %	341.695 %	103.919 %	109.251 %	0.000 %
Concentration RSD	1.8 %	**25.8 %**	**23.3 %**	**1.2 %**	2.7 %	2.2 %	18.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0050 ppm	0.0052 ppm	0.0056 ppm	0.0053 ppm	**0.0081 ppm**	0.0978 ppm	0.0048 ppm
Concentration per Run 1	0.0050 ppm	0.0052 ppm	0.0055 ppm	0.0052 ppm	0.0085 ppm	0.1003 ppm	0.0041 ppm
Concentration per Run 2	0.0050 ppm	0.0051 ppm	0.0058 ppm	0.0054 ppm	0.0082 ppm	0.1019 ppm	0.0052 ppm
Concentration per Run 3	0.0050 ppm	0.0052 ppm	0.0057 ppm	0.0053 ppm	0.0077 ppm	0.0910 ppm	0.0051 ppm
Recovery Percentage 1	100.312 %	103.392 %	112.741 %	106.204 %	162.548 %	0.000 %	0.000 %
Concentration RSD	0.2 %	0.9 %	2.8 %	1.9 %	**5.3 %**	6.0 %	12.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0055 ppm	0.0055 ppm	0.0052 ppm	0.1600 ppm	0.0051 ppm	0.0057 ppm	0.0056 ppm
Concentration per Run 1	0.0062 ppm	0.0059 ppm	0.0051 ppm	0.1567 ppm	0.0051 ppm	0.0059 ppm	0.0050 ppm
Concentration per Run 2	0.0068 ppm	0.0055 ppm	0.0053 ppm	0.1615 ppm	0.0052 ppm	0.0049 ppm	0.0064 ppm
Concentration per Run 3	0.0035 ppm	0.0050 ppm	0.0052 ppm	0.1617 ppm	0.0050 ppm	0.0061 ppm	0.0054 ppm
Recovery Percentage 1	0.000 %	109.018 %	104.325 %	0.000 %	102.032 %	113.128 %	112.285 %
Concentration RSD	31.4 %	8.0 %	2.0 %	1.8 %	1.6 %	12.0 %	12.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0041 ppm	**0.0591 ppm**	0.0055 ppm	0.0055 ppm	0.0056 ppm	0.0050 ppm	0.0051 ppm
Concentration per Run 1	0.0063 ppm	0.0592 ppm	0.0060 ppm	0.0057 ppm	0.0054 ppm	0.0057 ppm	0.0049 ppm
Concentration per Run 2	0.0039 ppm	0.0594 ppm	0.0056 ppm	0.0055 ppm	0.0056 ppm	0.0045 ppm	0.0052 ppm
Concentration per Run 3	0.0022 ppm	0.0588 ppm	0.0049 ppm	0.0052 ppm	0.0058 ppm	0.0047 ppm	0.0053 ppm
Recovery Percentage 1	82.583 %	1,182.794 %	109.583 %	109.536 %	112.635 %	99.820 %	102.502 %
Concentration RSD	49.9 %	**0.5 %**	10.1 %	4.6 %	3.2 %	13.0 %	4.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0052 ppm	98.8742 %	102.5744 %	102.3799 %	97.8700 %	100.8421 %	100.3239 %
Concentration per Run 1	0.0054 ppm	96.5236 %	103.1076 %	102.2490 %	94.7192 %	100.4570 %	100.9125 %
Concentration per Run 2	0.0051 ppm	98.9393 %	102.1747 %	102.3120 %	97.7173 %	100.7091 %	99.9940 %
Concentration per Run 3	0.0052 ppm	101.1596 %	102.4410 %	102.5786 %	101.1736 %	101.3602 %	100.0651 %
Recovery Percentage 1	104.720 %						
Concentration RSD	2.1 %	2.3 %	0.5 %	0.2 %	3.3 %	0.5 %	0.5 %

LabBook: WG2037194_03062025T5.imexp

Sample: IEC 10PPM V TL+
Analysis started at: 3/6/2025 7:53:12 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0046 ppm	0.0004 ppm	0.0083 ppm	0.0001 ppm	-0.0037 ppm	-0.0080 ppm
Concentration per Run 1	0.0001 ppm	0.0084 ppm	0.0013 ppm	0.0081 ppm	0.0002 ppm	-0.0039 ppm	-0.0076 ppm
Concentration per Run 2	-0.0006 ppm	-0.0006 ppm	-0.0004 ppm	0.0084 ppm	0.0001 ppm	-0.0037 ppm	-0.0084 ppm
Concentration per Run 3	-0.0006 ppm	0.0061 ppm	0.0003 ppm	0.0083 ppm	0.0001 ppm	-0.0036 ppm	-0.0080 ppm
Recovery Percentage 1	-4.930 %	4.639 %	8.041 %	27.542 %	1.359 %	-74.762 %	-7.989 %
Concentration RSD	119.7 %	100.6 %	216.2 %	1.9 %	63.1 %	3.6 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0024 ppm	0.0398 ppm	-0.0016 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0025 ppm	0.0339 ppm	-0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0019 ppm	0.0422 ppm	-0.0014 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0026 ppm	0.0433 ppm	-0.0013 ppm
Recovery Percentage 1	-1.369 %	0.194 %	4.291 %	0.105 %	4.722 %	1.593 %	-15.803 %
Concentration RSD	28.8 %	91.5 %	50.5 %	805.5 %	15.8 %	13.0 %	27.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0020 ppm	0.0002 ppm	0.0032 ppm	0.0288 ppm	-0.0002 ppm	-0.0003 ppm	0.0068 ppm
Concentration per Run 1	0.0028 ppm	0.0002 ppm	0.0031 ppm	0.0266 ppm	-0.0001 ppm	-0.0005 ppm	0.0070 ppm
Concentration per Run 2	0.0024 ppm	0.0001 ppm	0.0032 ppm	0.0249 ppm	-0.0003 ppm	-0.0003 ppm	0.0055 ppm
Concentration per Run 3	0.0008 ppm	0.0003 ppm	0.0032 ppm	0.0349 ppm	-0.0002 ppm	-0.0002 ppm	0.0079 ppm
Recovery Percentage 1	2.003 %	2.327 %	6.338 %	1.438 %	-0.704 %	-3.136 %	13.600 %
Concentration RSD	53.6 %	44.4 %	1.0 %	18.6 %	47.3 %	53.4 %	18.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	0.0037 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	10.2900 [SIC 10]
Concentration per Run 1	0.0025 ppm	0.0040 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	-0.0005 ppm	10.2679 ppm
Concentration per Run 2	0.0006 ppm	0.0039 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	10.3310 ppm
Concentration per Run 3	0.0026 ppm	0.0033 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	10.2711 ppm
Recovery Percentage 1	19.110 %	0.748 %	0.123 %	0.110 %	4.057 %	-0.926 %	102,900.242 %
Concentration RSD	61.1 %	10.0 %	349.3 %	627.8 %	12.8 %	172.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0022 ppm	98.3518 %	102.2695 %	102.4417 %	98.1494 %	102.0338 %	100.9817 %
Concentration per Run 1	-0.0022 ppm	95.2476 %	102.1466 %	102.6734 %	94.0897 %	101.9093 %	100.8753 %
Concentration per Run 2	-0.0022 ppm	99.6636 %	102.1434 %	102.2803 %	99.4708 %	101.8162 %	100.5297 %
Concentration per Run 3	-0.0021 ppm	100.1443 %	102.5184 %	102.3714 %	100.8876 %	102.3760 %	101.5401 %
Recovery Percentage 1	-43.118 %						
Concentration RSD	3.3 %	2.7 %	0.2 %	0.2 %	3.7 %	0.3 %	0.5 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: IEC 20PPM CR SB-
Analysis started at: 3/6/2025 8:03:28 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.0033 ppm	-0.0053 ppm	0.0048 ppm	0.0001 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 1	0.0007 ppm	0.0021 ppm	-0.0037 ppm	0.0050 ppm	0.0003 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 2	0.0013 ppm	0.0037 ppm	-0.0056 ppm	0.0050 ppm	0.0001 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 3	0.0002 ppm	0.0043 ppm	-0.0065 ppm	0.0044 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Recovery Percentage 1	10.646 %	3.344 %	-105.188 %	15.968 %	1.447 %	0.305 %	4.883 %
Concentration RSD	68.9 %	34.1 %	27.3 %	7.5 %	75.3 %	86.7 %	109.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0022 ppm	0.0000 ppm	**20.9398 ppm**	0.0001 ppm	0.0287 ppm	0.0166 ppm	-0.0007 ppm
Concentration per Run 1	0.0022 ppm	-0.0001 ppm	20.8253 ppm	0.0001 ppm	0.0279 ppm	0.0336 ppm	-0.0014 ppm
Concentration per Run 2	0.0021 ppm	0.0002 ppm	21.0311 ppm	0.0000 ppm	0.0295 ppm	0.0115 ppm	-0.0009 ppm
Concentration per Run 3	0.0022 ppm	-0.0001 ppm	20.9630 ppm	0.0003 ppm	0.0287 ppm	0.0046 ppm	0.0001 ppm
Recovery Percentage 1	54.363 %	-0.049 %	209,397.963 %	1.201 %	57.409 %	0.663 %	-7.385 %
Concentration RSD	1.5 %	1,595.2 %	**0.5 %**	114.2 %	2.9 %	91.2 %	97.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0016 ppm	0.0003 ppm	0.0007 ppm	0.0263 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0023 ppm	0.0004 ppm	0.0007 ppm	0.0287 ppm	-0.0002 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 2	0.0026 ppm	0.0002 ppm	0.0006 ppm	0.0243 ppm	-0.0002 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0044 ppm	0.0003 ppm	0.0007 ppm	0.0260 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm
Recovery Percentage 1	1.555 %	2.799 %	1.391 %	1.316 %	-0.415 %	-4.792 %	-0.057 %
Concentration RSD	223.1 %	26.7 %	7.2 %	8.5 %	178.8 %	57.5 %	1,746.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0058 ppm	0.0095 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0059 ppm	0.0093 ppm	0.0004 ppm	0.0000 ppm	-0.0010 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0051 ppm	0.0097 ppm	-0.0002 ppm	0.0000 ppm	-0.0013 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0066 ppm	0.0096 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm	-0.0014 ppm	-0.0006 ppm
Recovery Percentage 1	58.411 %	1.900 %	0.118 %	0.236 %	-11.890 %	-2.511 %	0.076 %
Concentration RSD	12.6 %	2.2 %	506.0 %	58.7 %	13.3 %	192.6 %	7,286.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	101.1272 %	102.0850 %	102.8100 %	102.3273 %	100.7113 %	100.5147 %
Concentration per Run 1	0.0009 ppm	102.0236 %	102.4398 %	102.7473 %	103.0706 %	100.7831 %	101.2793 %
Concentration per Run 2	0.0012 ppm	101.3157 %	101.7571 %	103.3053 %	102.2875 %	101.1694 %	100.2759 %
Concentration per Run 3	0.0008 ppm	100.0424 %	102.0581 %	102.3773 %	101.6237 %	100.1815 %	99.9891 %
Recovery Percentage 1	19.129 %						
Concentration RSD	19.6 %	1.0 %	0.3 %	0.5 %	0.7 %	0.5 %	0.7 %

LabBook: WG2037194_03062025T5.imexp

Sample: LDR 250PPM NA
Analysis started at: 3/6/2025 8:10:00 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0011 ppm	0.0009 ppm	0.0040 ppm	0.0000 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 1	0.0000 ppm	0.0083 ppm	0.0021 ppm	0.0043 ppm	0.0002 ppm	0.0001 ppm	0.0115 ppm
Concentration per Run 2	0.0003 ppm	-0.0064 ppm	0.0007 ppm	0.0038 ppm	-0.0002 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 3	0.0002 ppm	0.0013 ppm	-0.0001 ppm	0.0040 ppm	-0.0001 ppm	0.0000 ppm	0.0056 ppm
Concentration RSD	92.6 %	669.9 %	123.8 %	6.2 %	397.7 %	109.9 %	51.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm	0.0018 ppm	0.1250 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm	-0.0005 ppm	0.1390 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0005 ppm	0.0042 ppm	0.1249 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0008 ppm	0.0017 ppm	0.1112 ppm	0.0019 ppm
Concentration RSD	63.8 %	64.0 %	26.6 %	57.6 %	128.8 %	11.1 %	55.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0029 ppm	0.0002 ppm	0.0001 ppm	227.2298 ppm	0.0016 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 1	0.0027 ppm	0.0003 ppm	0.0002 ppm	228.8527 ppm	0.0016 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 2	0.0034 ppm	0.0000 ppm	0.0000 ppm	228.2466 ppm	0.0017 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	0.0025 ppm	0.0002 ppm	0.0001 ppm	224.5902 ppm	0.0014 ppm	-0.0003 ppm	-0.0007 ppm
Concentration RSD	15.6 %	79.2 %	142.5 %	1.0 %	9.0 %	142.0 %	124.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0018 ppm	0.0028 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 1	-0.0026 ppm	0.0031 ppm	-0.0005 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 2	-0.0021 ppm	0.0031 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	-0.0004 ppm
Concentration per Run 3	-0.0006 ppm	0.0021 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm	-0.0019 ppm	0.0000 ppm
Concentration RSD	57.2 %	20.0 %	22.6 %	139.4 %	49.8 %	197.6 %	75.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	98.8893 %	95.5949 %	96.5062 %	99.6241 %	90.6890 %	94.7701 %
Concentration per Run 1	0.0002 ppm	98.6154 %	95.5817 %	96.8066 %	99.7973 %	90.5087 %	94.7385 %
Concentration per Run 2	0.0004 ppm	99.0895 %	95.5129 %	96.6560 %	99.5827 %	90.8249 %	94.5346 %
Concentration per Run 3	0.0003 ppm	98.9630 %	95.6899 %	96.0560 %	99.4922 %	90.7333 %	95.0371 %
Concentration RSD	35.7 %	0.2 %	0.1 %	0.4 %	0.2 %	0.2 %	0.3 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: XIEC 500PM AL
Analysis started at: 3/6/2025 8:16:33 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	500.6307 [SIC 500]	0.0000 ppm	-0.0081 ppm	0.0001 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 1	0.0001 ppm	494.2478 ppm	-0.0015 ppm	-0.0079 ppm	0.0001 ppm	-0.0001 ppm	-0.0053 ppm
Concentration per Run 2	0.0001 ppm	508.3739 ppm	0.0014 ppm	-0.0082 ppm	0.0002 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 3	0.0004 ppm	499.2705 ppm	0.0001 ppm	-0.0081 ppm	0.0001 ppm	-0.0001 ppm	0.0009 ppm
Recovery Percentage 1	2.588 %	500,630.719 %	0.160 %	-26.899 %	1.380 %	-0.753 %	-2.136 %
Concentration RSD	85.7 %	1.4 %	18,471.9 %	2.2 %	11.2 %	75.5 %	145.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0016 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm	-0.0054 ppm	0.0535 ppm	-0.0014 ppm
Concentration per Run 1	-0.0016 ppm	-0.0003 ppm	0.0005 ppm	0.0005 ppm	-0.0051 ppm	0.0656 ppm	-0.0023 ppm
Concentration per Run 2	-0.0015 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	-0.0057 ppm	0.0568 ppm	-0.0001 ppm
Concentration per Run 3	-0.0016 ppm	-0.0001 ppm	0.0008 ppm	0.0005 ppm	-0.0053 ppm	0.0381 ppm	-0.0019 ppm
Recovery Percentage 1	-39.728 %	-0.560 %	7.017 %	5.208 %	-10.714 %	2.139 %	-14.336 %
Concentration RSD	2.2 %	126.8 %	27.3 %	4.2 %	6.1 %	26.2 %	81.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0021 ppm	-0.0005 ppm	0.0004 ppm	0.1154 ppm	0.0013 ppm	-0.0148 ppm	0.0040 ppm
Concentration per Run 1	-0.0003 ppm	-0.0006 ppm	0.0003 ppm	0.1264 ppm	0.0011 ppm	-0.0148 ppm	0.0071 ppm
Concentration per Run 2	-0.0024 ppm	-0.0006 ppm	0.0006 ppm	0.1138 ppm	0.0013 ppm	-0.0142 ppm	0.0035 ppm
Concentration per Run 3	-0.0036 ppm	-0.0004 ppm	0.0002 ppm	0.1060 ppm	0.0016 ppm	-0.0154 ppm	0.0014 ppm
Recovery Percentage 1	-2.112 %	-5.180 %	0.723 %	5.770 %	5.294 %	-147.871 %	8.027 %
Concentration RSD	79.3 %	20.5 %	55.6 %	8.9 %	19.3 %	3.8 %	72.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0051 ppm	-0.0041 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0060 ppm	-0.0032 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0024 ppm	0.0001 ppm
Concentration per Run 2	-0.0072 ppm	-0.0047 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 3	-0.0021 ppm	-0.0043 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0021 ppm	-0.0001 ppm
Recovery Percentage 1	-51.110 %	-0.817 %	0.581 %	-0.419 %	2.643 %	-2.146 %	0.580 %
Concentration RSD	52.9 %	18.3 %	134.8 %	134.6 %	68.5 %	573.6 %	184.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0029 ppm	102.8675 %	96.4253 %	102.1666 %	103.5924 %	92.2588 %	95.9271 %
Concentration per Run 1	0.0030 ppm	102.7595 %	96.3073 %	102.5121 %	103.9150 %	92.3735 %	96.0550 %
Concentration per Run 2	0.0029 ppm	103.1755 %	96.4955 %	101.9655 %	103.4692 %	91.9464 %	95.9087 %
Concentration per Run 3	0.0029 ppm	102.6674 %	96.4729 %	102.0223 %	103.3929 %	92.4563 %	95.8177 %
Recovery Percentage 1	58.501 %						
Concentration RSD	1.9 %	0.3 %	0.1 %	0.3 %	0.3 %	0.3 %	0.1 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: IEC 20PPM Ti CU- V+
Analysis started at: 3/6/2025 8:32:46 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	0.0116 ppm	-0.0010 ppm	0.0035 ppm	0.0001 ppm	-0.0033 ppm	0.0044 ppm
Concentration per Run 1	0.0006 ppm	0.0123 ppm	-0.0017 ppm	0.0036 ppm	0.0000 ppm	-0.0034 ppm	0.0075 ppm
Concentration per Run 2	0.0009 ppm	0.0156 ppm	-0.0013 ppm	0.0035 ppm	0.0000 ppm	-0.0032 ppm	0.0010 ppm
Concentration per Run 3	0.0011 ppm	0.0070 ppm	-0.0001 ppm	0.0034 ppm	0.0002 ppm	-0.0032 ppm	0.0048 ppm
Recovery Percentage 1	12.737 %	11.639 %	-20.589 %	11.698 %	0.695 %	-65.021 %	4.440 %
Concentration RSD	30.3 %	37.1 %	76.3 %	2.9 %	153.0 %	3.1 %	73.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0101 ppm	0.0000 ppm	-0.0005 ppm	0.0047 ppm	0.0222 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0103 ppm	-0.0003 ppm	-0.0003 ppm	0.0051 ppm	0.0212 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0102 ppm	0.0002 ppm	-0.0008 ppm	0.0031 ppm	-0.0072 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0099 ppm	0.0002 ppm	-0.0002 ppm	0.0060 ppm	0.0525 ppm	-0.0013 ppm
Recovery Percentage 1	-0.167 %	50.537 %	0.342 %	-4.545 %	9.448 %	0.888 %	-7.205 %
Concentration RSD	207.1 %	2.2 %	743.0 %	73.6 %	31.7 %	134.5 %	156.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0444 ppm	0.0000 ppm	0.0001 ppm	0.0267 ppm	0.0006 ppm	0.0015 ppm	0.0023 ppm
Concentration per Run 1	-0.0429 ppm	-0.0001 ppm	0.0000 ppm	0.0327 ppm	0.0007 ppm	0.0014 ppm	0.0029 ppm
Concentration per Run 2	-0.0452 ppm	0.0000 ppm	0.0001 ppm	0.0208 ppm	0.0006 ppm	0.0017 ppm	0.0019 ppm
Concentration per Run 3	-0.0453 ppm	0.0001 ppm	0.0001 ppm	0.0266 ppm	0.0004 ppm	0.0014 ppm	0.0022 ppm
Recovery Percentage 1	-44.430 %	0.412 %	0.154 %	1.335 %	2.364 %	14.982 %	4.641 %
Concentration RSD	3.1 %	262.6 %	90.6 %	22.3 %	26.2 %	11.4 %	21.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0089 ppm	-0.1187 ppm	0.0002 ppm	0.0001 ppm	20.8713 ppm	0.0078 ppm	0.0001 ppm
Concentration per Run 1	-0.0076 ppm	-0.1182 ppm	0.0003 ppm	0.0001 ppm	20.7843 ppm	0.0085 ppm	0.0000 ppm
Concentration per Run 2	-0.0075 ppm	-0.1181 ppm	0.0001 ppm	0.0001 ppm	20.9751 ppm	0.0063 ppm	0.0001 ppm
Concentration per Run 3	-0.0115 ppm	-0.1199 ppm	0.0002 ppm	0.0000 ppm	20.8544 ppm	0.0086 ppm	0.0002 ppm
Recovery Percentage 1	-88.794 %	-23.743 %	0.391 %	0.646 %	208,712.700 %	38.947 %	0.925 %
Concentration RSD	25.9 %	0.8 %	55.3 %	48.8 %	0.5 %	17.0 %	87.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0010 ppm	98.6556 %	103.3078 %	102.5222 %	99.7173 %	99.9742 %	100.4957 %
Concentration per Run 1	-0.0010 ppm	97.8366 %	103.3559 %	102.2634 %	98.9690 %	99.6894 %	100.7343 %
Concentration per Run 2	-0.0009 ppm	98.8909 %	103.3090 %	102.8257 %	99.4349 %	100.1430 %	99.9949 %
Concentration per Run 3	-0.0010 ppm	99.2394 %	103.2585 %	102.4775 %	100.7478 %	100.0902 %	100.7579 %
Recovery Percentage 1	-19.316 %						
Concentration RSD	7.2 %	0.7 %	0.0 %	0.3 %	0.9 %	0.2 %	0.4 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: IEC 200PPM FE CU- AS+
Analysis started at: 3/6/2025 8:39:16 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	0.0098 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0019 ppm	0.0119 ppm	0.0003 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0024 ppm	0.0083 ppm	-0.0010 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0024 ppm	0.0093 ppm	0.0007 ppm	0.0018 ppm	0.0000 ppm	0.0001 ppm	0.0040 ppm
Recovery Percentage 1	32.508 %	9.848 %	0.146 %	3.866 %	0.977 %	0.308 %	1.855 %
Concentration RSD	12.6 %	18.8 %	12,077.4 %	50.4 %	136.5 %	273.9 %	112.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0023 ppm	-0.0005 ppm	-0.0024 ppm	0.0000 ppm	**206.9957 ppm**	0.0061 ppm	-0.0009 ppm
Concentration per Run 1	-0.0024 ppm	-0.0005 ppm	-0.0021 ppm	0.0003 ppm	215.4637 ppm	0.0203 ppm	-0.0003 ppm
Concentration per Run 2	-0.0022 ppm	-0.0004 ppm	-0.0027 ppm	-0.0004 ppm	202.0217 ppm	0.0112 ppm	-0.0015 ppm
Concentration per Run 3	-0.0023 ppm	-0.0005 ppm	-0.0026 ppm	0.0001 ppm	203.5016 ppm	-0.0132 ppm	-0.0008 ppm
Recovery Percentage 1	-57.551 %	-2.360 %	-24.403 %	-0.041 %	413,991.330 %	0.244 %	-8.784 %
Concentration RSD	5.1 %	7.2 %	13.4 %	8,885.4 %	**3.6 %**	284.0 %	70.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0080 ppm	0.0000 ppm	-0.0015 ppm	0.0208 ppm	-0.0046 ppm	-0.0009 ppm	0.0016 ppm
Concentration per Run 1	-0.0097 ppm	0.0001 ppm	-0.0014 ppm	0.0177 ppm	-0.0045 ppm	-0.0006 ppm	0.0012 ppm
Concentration per Run 2	-0.0066 ppm	0.0000 ppm	-0.0016 ppm	0.0221 ppm	-0.0047 ppm	-0.0010 ppm	0.0012 ppm
Concentration per Run 3	-0.0078 ppm	-0.0001 ppm	-0.0015 ppm	0.0226 ppm	-0.0045 ppm	-0.0012 ppm	0.0024 ppm
Recovery Percentage 1	-8.031 %	-0.004 %	-3.008 %	1.039 %	-18.274 %	-8.993 %	3.207 %
Concentration RSD	19.0 %	31,206.4 %	4.1 %	12.9 %	2.0 %	33.2 %	42.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.0032 ppm	0.0020 ppm	0.0001 ppm	0.0012 ppm	0.0025 ppm	0.0008 ppm
Concentration per Run 1	-0.0011 ppm	0.0040 ppm	0.0017 ppm	0.0002 ppm	0.0011 ppm	0.0024 ppm	0.0009 ppm
Concentration per Run 2	0.0014 ppm	0.0019 ppm	0.0022 ppm	0.0000 ppm	0.0011 ppm	0.0027 ppm	0.0003 ppm
Concentration per Run 3	-0.0007 ppm	0.0038 ppm	0.0021 ppm	0.0002 ppm	0.0013 ppm	0.0025 ppm	0.0011 ppm
Recovery Percentage 1	-1.111 %	0.646 %	4.040 %	1.326 %	11.815 %	12.573 %	7.780 %
Concentration RSD	1,210.8 %	35.6 %	12.3 %	80.6 %	9.5 %	5.2 %	56.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	96.2686 %	99.8223 %	98.9091 %	97.8668 %	96.3220 %	99.7702 %
Concentration per Run 1	0.0007 ppm	93.4893 %	99.8580 %	99.1749 %	95.1296 %	96.7371 %	100.2360 %
Concentration per Run 2	0.0005 ppm	97.1494 %	99.6184 %	98.9324 %	98.8437 %	96.3536 %	99.4652 %
Concentration per Run 3	0.0007 ppm	98.1672 %	99.9903 %	98.6201 %	99.6271 %	95.8754 %	99.6094 %
Recovery Percentage 1	13.187 %						
Concentration RSD	19.1 %	2.6 %	0.2 %	0.3 %	2.5 %	0.4 %	0.4 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: CCV
Analysis started at: 3/6/2025 8:58:38 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5079 ppm	0.5319 ppm	0.4818 ppm	0.4785 ppm	0.4996 ppm	0.5257 ppm	0.5475 ppm
Concentration per Run 1	0.5001 ppm	0.5684 ppm	0.4800 ppm	0.4758 ppm	0.5362 ppm	0.5641 ppm	0.5884 ppm
Concentration per Run 2	0.5130 ppm	0.5292 ppm	0.4794 ppm	0.4782 ppm	0.4918 ppm	0.5189 ppm	0.5413 ppm
Concentration per Run 3	0.5106 ppm	0.4980 ppm	0.4862 ppm	0.4816 ppm	0.4708 ppm	0.4940 ppm	0.5128 ppm
Recovery Percentage 1	101.578 %	106.378 %	96.368 %	95.709 %	99.919 %	105.133 %	109.503 %
Concentration RSD	1.4 %	6.6 %	0.8 %	0.6 %	6.7 %	6.8 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4806 ppm	0.4908 ppm	0.5071 ppm	0.4999 ppm	0.5492 ppm	5.4206 ppm	0.5089 ppm
Concentration per Run 1	0.4792 ppm	0.4894 ppm	0.4993 ppm	0.4918 ppm	0.5867 ppm	5.7952 ppm	0.5441 ppm
Concentration per Run 2	0.4801 ppm	0.4903 ppm	0.5150 ppm	0.5061 ppm	0.5416 ppm	5.3912 ppm	0.5026 ppm
Concentration per Run 3	0.4826 ppm	0.4926 ppm	0.5072 ppm	0.5018 ppm	0.5194 ppm	5.0755 ppm	0.4801 ppm
Recovery Percentage 1	96.124 %	98.158 %	101.429 %	99.981 %	109.845 %	108.413 %	101.788 %
Concentration RSD	0.4 %	0.3 %	1.5 %	1.5 %	6.2 %	6.7 %	6.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5226 ppm	0.5214 ppm	0.4745 ppm	10.3347 ppm	0.4981 ppm	0.4886 ppm	0.4942 ppm
Concentration per Run 1	0.5166 ppm	0.5584 ppm	0.4719 ppm	11.0911 ppm	0.4966 ppm	0.4859 ppm	0.4907 ppm
Concentration per Run 2	0.5310 ppm	0.5162 ppm	0.4738 ppm	10.2044 ppm	0.4978 ppm	0.4876 ppm	0.4944 ppm
Concentration per Run 3	0.5204 ppm	0.4897 ppm	0.4779 ppm	9.7087 ppm	0.5001 ppm	0.4924 ppm	0.4974 ppm
Recovery Percentage 1	104.528 %	104.282 %	94.909 %	103.347 %	99.630 %	97.724 %	98.834 %
Concentration RSD	1.4 %	6.6 %	0.6 %	6.8 %	0.4 %	0.7 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4784 ppm	5.4014 ppm	0.5028 ppm	0.5060 ppm	0.5127 ppm	0.4982 ppm	0.5062 ppm
Concentration per Run 1	0.4760 ppm	5.3819 ppm	0.5020 ppm	0.5429 ppm	0.5041 ppm	0.4940 ppm	0.4979 ppm
Concentration per Run 2	0.4761 ppm	5.3899 ppm	0.5017 ppm	0.4999 ppm	0.5194 ppm	0.4978 ppm	0.5141 ppm
Concentration per Run 3	0.4831 ppm	5.4325 ppm	0.5047 ppm	0.4753 ppm	0.5146 ppm	0.5029 ppm	0.5064 ppm
Recovery Percentage 1	95.683 %	102.884 %	100.565 %	101.209 %	102.546 %	99.649 %	101.231 %
Concentration RSD	0.9 %	0.5 %	0.3 %	6.8 %	1.5 %	0.9 %	1.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4761 ppm	96.7602 %	100.9874 %	101.4566 %	99.1601 %	99.3484 %	100.0472 %
Concentration per Run 1	0.4737 ppm	90.1529 %	102.6804 %	101.8077 %	92.6866 %	99.6418 %	101.5684 %
Concentration per Run 2	0.4760 ppm	97.7056 %	99.4134 %	101.6229 %	99.8820 %	99.4931 %	98.7600 %
Concentration per Run 3	0.4785 ppm	102.4221 %	100.8684 %	100.9393 %	104.9117 %	98.9103 %	99.8133 %
Recovery Percentage 1	95.216 %						
Concentration RSD	0.5 %	6.4 %	1.6 %	0.5 %	6.2 %	0.4 %	1.4 %

LabBook: WG2037194_03062025T5.imexp

Sample: CCB
Analysis started at: 3/6/2025 9:04:47 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	-0.0024 ppm
Concentration per Run 1	0.0001 ppm	-0.0017 ppm	0.0001 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	0.0068 ppm	-0.0008 ppm	0.0010 ppm	-0.0001 ppm	-0.0001 ppm	-0.0066 ppm
Concentration per Run 3	0.0005 ppm	-0.0045 ppm	0.0021 ppm	0.0013 ppm	0.0002 ppm	-0.0001 ppm	-0.0027 ppm
Recovery Percentage 1	3.037 %	0.212 %	9.256 %	4.047 %	1.034 %	-0.564 %	-2.370 %
Concentration RSD	117.5 %	2,776.5 %	326.4 %	17.8 %	131.4 %	242.5 %	183.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0067 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0283 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0069 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	-0.0152 ppm	-0.0002 ppm
Recovery Percentage 1	-0.099 %	0.359 %	0.724 %	1.077 %	-0.303 %	0.267 %	-4.470 %
Concentration RSD	126.1 %	123.2 %	69.5 %	150.8 %	256.9 %	326.2 %	85.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0019 ppm	0.0001 ppm	0.0005 ppm	0.0033 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0038 ppm	0.0003 ppm	0.0006 ppm	0.0109 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	-0.0019 ppm	-0.0001 ppm	0.0003 ppm	-0.0009 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-1.874 %	1.479 %	0.952 %	0.167 %	-0.012 %	0.538 %	0.312 %
Concentration RSD	100.9 %	136.4 %	32.9 %	196.1 %	6,584.5 %	484.1 %	561.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0011 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0010 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0023 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0006 ppm	0.0003 ppm
Recovery Percentage 1	4.965 %	0.222 %	0.266 %	0.896 %	3.142 %	1.486 %	0.483 %
Concentration RSD	340.4 %	35.0 %	273.9 %	61.8 %	98.5 %	204.4 %	582.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	101.0587 %	101.5769 %	101.2638 %	101.0847 %	101.1446 %	101.3529 %
Concentration per Run 1	0.0000 ppm	101.7222 %	100.7337 %	101.1366 %	100.6483 %	100.8991 %	100.1175 %
Concentration per Run 2	-0.0001 ppm	100.9145 %	101.7323 %	101.5256 %	101.1958 %	101.6621 %	101.7192 %
Concentration per Run 3	-0.0003 ppm	100.5395 %	102.2648 %	101.1293 %	101.4100 %	100.8726 %	102.2219 %
Recovery Percentage 1	-2.095 %						
Concentration RSD	133.3 %	0.6 %	0.8 %	0.2 %	0.4 %	0.4 %	1.1 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2036471-1 WG2036471
Analysis started at: 3/6/2025 9:26:26 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0057 ppm	0.0008 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0172 ppm
Concentration per Run 1	0.0001 ppm	0.0061 ppm	0.0008 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0170 ppm
Concentration per Run 2	0.0004 ppm	0.0093 ppm	0.0009 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0174 ppm
Concentration per Run 3	0.0005 ppm	0.0018 ppm	0.0006 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0173 ppm
Recovery Percentage 1	4.902 %	5.743 %	15.295 %	2.066 %	0.243 %	-0.435 %	17.220 %
Concentration RSD	60.0 %	65.7 %	20.8 %	26.7 %	657.1 %	23.3 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0018 ppm	0.0161 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0290 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	-0.0004 ppm	0.0228 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0039 ppm	-0.0037 ppm	-0.0006 ppm
Recovery Percentage 1	0.249 %	0.090 %	2.698 %	-0.072 %	3.573 %	0.642 %	-12.213 %
Concentration RSD	115.3 %	742.9 %	48.1 %	1,376.8 %	120.3 %	108.2 %	45.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0003 ppm	0.0001 ppm	-0.0045 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0035 ppm	-0.0003 ppm	-0.0006 ppm	0.0013 ppm
Concentration per Run 2	0.0016 ppm	0.0002 ppm	0.0002 ppm	-0.0036 ppm	-0.0002 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	-0.0028 ppm	0.0004 ppm	0.0001 ppm	-0.0134 ppm	-0.0001 ppm	0.0001 ppm	-0.0011 ppm
Recovery Percentage 1	-0.714 %	2.615 %	0.257 %	-0.226 %	-0.883 %	-0.432 %	0.351 %
Concentration RSD	304.9 %	35.4 %	59.3 %	187.3 %	51.2 %	1,078.8 %	706.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.0059 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0025 ppm	0.0054 ppm	-0.0005 ppm	0.0001 ppm	0.0003 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	0.0062 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	0.0061 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0015 ppm	0.0003 ppm
Recovery Percentage 1	-10.276 %	1.179 %	-0.255 %	0.428 %	2.725 %	-2.063 %	0.082 %
Concentration RSD	141.4 %	7.0 %	299.6 %	180.0 %	36.5 %	312.9 %	2,781.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	98.8888 %	102.6510 %	102.0478 %	100.8772 %	101.1680 %	103.1611 %
Concentration per Run 1	0.0008 ppm	98.6740 %	101.9616 %	101.4972 %	100.3492 %	100.1948 %	102.4016 %
Concentration per Run 2	0.0007 ppm	98.3957 %	103.1640 %	103.1412 %	100.6411 %	102.6187 %	103.6210 %
Concentration per Run 3	0.0009 ppm	99.5969 %	102.8274 %	101.5051 %	101.6414 %	100.6904 %	103.4608 %
Recovery Percentage 1	16.011 %						
Concentration RSD	10.5 %	0.6 %	0.6 %	0.9 %	0.7 %	1.3 %	0.6 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: WG2036471-2 WG2036471
Analysis started at: 3/6/2025 9:32:51 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0501 ppm	2.0453 ppm	0.1133 ppm	0.9303 ppm	1.9695 ppm	0.0507 ppm	9.9177 ppm
Concentration per Run 1	0.0505 ppm	2.0506 ppm	0.1122 ppm	0.9261 ppm	1.9707 ppm	0.0505 ppm	9.9232 ppm
Concentration per Run 2	0.0499 ppm	2.0412 ppm	0.1128 ppm	0.9351 ppm	1.9673 ppm	0.0508 ppm	9.9086 ppm
Concentration per Run 3	0.0500 ppm	2.0440 ppm	0.1148 ppm	0.9297 ppm	1.9705 ppm	0.0506 ppm	9.9213 ppm
Concentration RSD	0.6 %	0.2 %	1.2 %	0.5 %	0.1 %	0.3 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0513 ppm	0.4869 ppm	0.1981 ppm	0.2500 ppm	1.0429 ppm	10.0908 ppm	-0.0021 ppm
Concentration per Run 1	0.0512 ppm	0.4862 ppm	0.1979 ppm	0.2505 ppm	1.0442 ppm	10.1086 ppm	-0.0014 ppm
Concentration per Run 2	0.0514 ppm	0.4885 ppm	0.1975 ppm	0.2501 ppm	1.0435 ppm	10.0741 ppm	-0.0019 ppm
Concentration per Run 3	0.0513 ppm	0.4860 ppm	0.1989 ppm	0.2496 ppm	1.0410 ppm	10.0897 ppm	-0.0029 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %	0.2 %	0.2 %	0.2 %	37.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.6613 ppm	0.5025 ppm	0.9028 ppm	9.9368 ppm	0.4898 ppm	0.4999 ppm	0.4827 ppm
Concentration per Run 1	9.6574 ppm	0.5033 ppm	0.8931 ppm	9.9478 ppm	0.4896 ppm	0.4983 ppm	0.4795 ppm
Concentration per Run 2	9.6780 ppm	0.5015 ppm	0.9053 ppm	9.9386 ppm	0.4909 ppm	0.5009 ppm	0.4864 ppm
Concentration per Run 3	9.6485 ppm	0.5029 ppm	0.9099 ppm	9.9240 ppm	0.4889 ppm	0.5005 ppm	0.4822 ppm
Concentration RSD	0.2 %	0.2 %	1.0 %	0.1 %	0.2 %	0.3 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1116 ppm	1.0243 ppm	0.9177 ppm	0.9334 ppm	0.9515 ppm	0.1139 ppm	0.4932 ppm
Concentration per Run 1	0.1114 ppm	1.0217 ppm	0.9158 ppm	0.9340 ppm	0.9505 ppm	0.1135 ppm	0.4925 ppm
Concentration per Run 2	0.1121 ppm	1.0284 ppm	0.9214 ppm	0.9330 ppm	0.9518 ppm	0.1154 ppm	0.4938 ppm
Concentration per Run 3	0.1114 ppm	1.0228 ppm	0.9160 ppm	0.9331 ppm	0.9521 ppm	0.1128 ppm	0.4934 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.1 %	0.1 %	1.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4904 ppm	99.5730 %	99.3540 %	98.4000 %	103.0217 %	97.8938 %	102.6930 %
Concentration per Run 1	0.4887 ppm	99.9356 %	99.3156 %	98.7943 %	103.0964 %	98.1807 %	102.7883 %
Concentration per Run 2	0.4921 ppm	99.3967 %	99.4534 %	97.9864 %	102.8651 %	97.6978 %	102.6610 %
Concentration per Run 3	0.4904 ppm	99.3867 %	99.2931 %	98.4192 %	103.1036 %	97.8030 %	102.6298 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.4 %	0.1 %	0.3 %	0.1 %

LabBook: WG2037194_03062025T5.imexp

Sample: L2510980-01 WG2036471
Analysis started at: 3/6/2025 9:38:59 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0319 ppm	0.0029 ppm	0.1296 ppm	0.0448 ppm	-0.0001 ppm	128.5484 ppm
Concentration per Run 1	0.0004 ppm	0.0284 ppm	0.0041 ppm	0.1300 ppm	0.0448 ppm	-0.0001 ppm	127.7026 ppm
Concentration per Run 2	-0.0001 ppm	0.0367 ppm	0.0013 ppm	0.1294 ppm	0.0449 ppm	-0.0001 ppm	128.7014 ppm
Concentration per Run 3	-0.0002 ppm	0.0306 ppm	0.0032 ppm	0.1295 ppm	0.0447 ppm	0.0000 ppm	129.2413 ppm
Concentration RSD	869.3 %	13.5 %	49.1 %	0.2 %	0.2 %	33.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0011 ppm	0.0012 ppm	0.0180 ppm	0.0176 ppm	32.3640 ppm	0.0015 ppm
Concentration per Run 1	-0.0003 ppm	0.0012 ppm	0.0013 ppm	0.0181 ppm	0.0175 ppm	32.1211 ppm	0.0022 ppm
Concentration per Run 2	-0.0003 ppm	0.0011 ppm	0.0011 ppm	0.0181 ppm	0.0180 ppm	32.3368 ppm	0.0008 ppm
Concentration per Run 3	-0.0003 ppm	0.0011 ppm	0.0011 ppm	0.0179 ppm	0.0172 ppm	32.6341 ppm	0.0015 ppm
Concentration RSD	8.6 %	8.7 %	9.2 %	0.9 %	2.2 %	0.8 %	45.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.1832 ppm	0.3056 ppm	0.0038 ppm	168.0382 ppm	0.0020 ppm	0.0007 ppm	0.0062 ppm
Concentration per Run 1	9.2299 ppm	0.3032 ppm	0.0042 ppm	167.6544 ppm	0.0018 ppm	0.0007 ppm	0.0059 ppm
Concentration per Run 2	9.1743 ppm	0.3054 ppm	0.0037 ppm	168.2416 ppm	0.0022 ppm	0.0004 ppm	0.0064 ppm
Concentration per Run 3	9.1453 ppm	0.3083 ppm	0.0034 ppm	168.2185 ppm	0.0019 ppm	0.0010 ppm	0.0063 ppm
Concentration RSD	0.5 %	0.8 %	10.6 %	0.2 %	9.9 %	41.4 %	4.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0021 ppm	4.0700 ppm	0.0010 ppm	0.2523 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0033 ppm	4.0651 ppm	0.0017 ppm	0.2502 ppm	0.0001 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 2	-0.0009 ppm	4.0689 ppm	0.0003 ppm	0.2518 ppm	0.0003 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 3	-0.0023 ppm	4.0759 ppm	0.0011 ppm	0.2549 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm
Concentration RSD	55.8 %	0.1 %	72.0 %	1.0 %	41.2 %	872.1 %	89.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0699 ppm	97.8419 %	92.4211 %	92.5106 %	103.3669 %	87.9300 %	97.9725 %
Concentration per Run 1	0.0695 ppm	98.5017 %	92.4136 %	92.4855 %	104.1690 %	88.1217 %	97.5712 %
Concentration per Run 2	0.0700 ppm	97.2770 %	92.4610 %	92.4762 %	103.2067 %	87.7674 %	98.2023 %
Concentration per Run 3	0.0700 ppm	97.7471 %	92.3886 %	92.5701 %	102.7250 %	87.9009 %	98.1440 %
Concentration RSD	0.4 %	0.6 %	0.0 %	0.1 %	0.7 %	0.2 %	0.4 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2036471-3 WG2036471
Analysis started at: 3/6/2025 9:45:25 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0490 ppm	2.0215 ppm	0.1236 ppm	1.0805 [SIC 20]	1.9990 ppm	0.0500 ppm	137.1866 ppm
Concentration per Run 1	0.0489 ppm	2.0181 ppm	0.1229 ppm	1.0812 ppm	1.9953 ppm	0.0498 ppm	136.9438 ppm
Concentration per Run 2	0.0487 ppm	2.0087 ppm	0.1239 ppm	1.0825 ppm	2.0009 ppm	0.0501 ppm	136.9714 ppm
Concentration per Run 3	0.0492 ppm	2.0378 ppm	0.1240 ppm	1.0777 ppm	2.0007 ppm	0.0501 ppm	137.6447 ppm
Concentration RSD	0.5 %	0.7 %	0.5 %	0.2 %	0.2 %	0.4 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0523 ppm	0.4995 ppm	0.1936 ppm	0.2682 ppm	1.0263 ppm	42.6042 ppm	0.0010 ppm
Concentration per Run 1	0.0523 ppm	0.4995 ppm	0.1935 ppm	0.2678 ppm	1.0238 ppm	42.4768 ppm	0.0011 ppm
Concentration per Run 2	0.0526 ppm	0.5017 ppm	0.1930 ppm	0.2687 ppm	1.0240 ppm	42.5499 ppm	0.0015 ppm
Concentration per Run 3	0.0520 ppm	0.4973 ppm	0.1942 ppm	0.2682 ppm	1.0309 ppm	42.7859 ppm	0.0004 ppm
Concentration RSD	0.6 %	0.4 %	0.3 %	0.2 %	0.4 %	0.4 %	54.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	17.9763 ppm	0.7821 ppm	0.9680 ppm	172.3403 ppm	0.4960 ppm	0.5044 ppm	0.5251 ppm
Concentration per Run 1	17.9762 ppm	0.7792 ppm	0.9634 ppm	172.7889 ppm	0.4964 ppm	0.5054 ppm	0.5248 ppm
Concentration per Run 2	17.9213 ppm	0.7809 ppm	0.9729 ppm	171.3177 ppm	0.4978 ppm	0.5070 ppm	0.5273 ppm
Concentration per Run 3	18.0313 ppm	0.7862 ppm	0.9677 ppm	172.9143 ppm	0.4937 ppm	0.5008 ppm	0.5231 ppm
Concentration RSD	0.3 %	0.5 %	0.5 %	0.5 %	0.4 %	0.6 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1184 ppm	5.1486 ppm	0.9307 ppm	1.1587 ppm	0.9306 ppm	0.1095 ppm	0.4867 ppm
Concentration per Run 1	0.1176 ppm	5.1559 ppm	0.9323 ppm	1.1522 ppm	0.9311 ppm	0.1084 ppm	0.4861 ppm
Concentration per Run 2	0.1196 ppm	5.1727 ppm	0.9366 ppm	1.1592 ppm	0.9287 ppm	0.1112 ppm	0.4864 ppm
Concentration per Run 3	0.1179 ppm	5.1171 ppm	0.9233 ppm	1.1647 ppm	0.9319 ppm	0.1089 ppm	0.4874 ppm
Concentration RSD	0.9 %	0.6 %	0.7 %	0.5 %	0.2 %	1.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5861 ppm	97.4129 %	92.2412 %	91.5298 %	103.5203 %	87.4209 %	98.7081 %
Concentration per Run 1	0.5856 ppm	97.4397 %	92.1082 %	91.4947 %	103.6990 %	87.4149 %	98.6972 %
Concentration per Run 2	0.5893 ppm	97.8647 %	92.7015 %	91.3238 %	104.0897 %	87.0355 %	99.0391 %
Concentration per Run 3	0.5835 ppm	96.9343 %	91.9140 %	91.7709 %	102.7722 %	87.8124 %	98.3881 %
Concentration RSD	0.5 %	0.5 %	0.4 %	0.2 %	0.7 %	0.4 %	0.3 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2036471-4 WG2036471
Analysis started at: 3/6/2025 9:51:39 AM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0339 ppm	0.0027 ppm	0.1292 ppm	0.0448 ppm	0.0000 ppm	125.5536 ppm
Concentration per Run 1	0.0004 ppm	0.0397 ppm	0.0027 ppm	0.1296 ppm	0.0452 ppm	0.0000 ppm	126.4319 ppm
Concentration per Run 2	0.0003 ppm	0.0431 ppm	0.0031 ppm	0.1282 ppm	0.0446 ppm	-0.0001 ppm	125.4414 ppm
Concentration per Run 3	0.0001 ppm	0.0190 ppm	0.0023 ppm	0.1296 ppm	0.0446 ppm	0.0000 ppm	124.7875 ppm
Concentration RSD	50.6 %	38.3 %	15.7 %	0.6 %	0.7 %	114.9 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0013 ppm	0.0016 ppm	0.0175 ppm	0.0177 ppm	31.6042 ppm	0.0017 ppm
Concentration per Run 1	-0.0003 ppm	0.0014 ppm	0.0015 ppm	0.0173 ppm	0.0186 ppm	31.8081 ppm	0.0023 ppm
Concentration per Run 2	-0.0003 ppm	0.0014 ppm	0.0018 ppm	0.0177 ppm	0.0170 ppm	31.5327 ppm	0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0010 ppm	0.0015 ppm	0.0174 ppm	0.0175 ppm	31.4718 ppm	0.0028 ppm
Concentration RSD	11.4 %	18.5 %	11.5 %	1.1 %	4.6 %	0.6 %	80.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.8437 ppm	0.2984 ppm	0.0040 ppm	158.1918 ppm	0.0021 ppm	0.0003 ppm	0.0064 ppm
Concentration per Run 1	8.8411 ppm	0.3006 ppm	0.0045 ppm	159.0938 ppm	0.0019 ppm	0.0005 ppm	0.0053 ppm
Concentration per Run 2	8.8498 ppm	0.2978 ppm	0.0037 ppm	157.0987 ppm	0.0021 ppm	0.0001 ppm	0.0074 ppm
Concentration per Run 3	8.8401 ppm	0.2968 ppm	0.0038 ppm	158.3829 ppm	0.0023 ppm	0.0002 ppm	0.0063 ppm
Concentration RSD	0.1 %	0.7 %	10.0 %	0.6 %	8.3 %	58.8 %	17.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	4.0055 ppm	0.0006 ppm	0.2473 ppm	0.0004 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 1	-0.0015 ppm	4.0025 ppm	0.0016 ppm	0.2490 ppm	0.0006 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 2	-0.0004 ppm	3.9816 ppm	0.0005 ppm	0.2471 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0021 ppm	4.0323 ppm	-0.0002 ppm	0.2459 ppm	0.0004 ppm	0.0010 ppm	0.0002 ppm
Concentration RSD	2,659.5 %	0.6 %	141.4 %	0.6 %	31.9 %	89.0 %	38.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0697 ppm	98.1458 %	92.1309 %	91.9180 %	104.1891 %	87.8469 %	99.5521 %
Concentration per Run 1	0.0698 ppm	97.9891 %	91.9812 %	91.7830 %	103.3002 %	87.9283 %	99.5263 %
Concentration per Run 2	0.0691 ppm	98.1281 %	92.2205 %	92.5522 %	104.5374 %	88.3725 %	99.4694 %
Concentration per Run 3	0.0704 ppm	98.3203 %	92.1909 %	91.4187 %	104.7298 %	87.2400 %	99.6605 %
Concentration RSD	0.9 %	0.2 %	0.1 %	0.6 %	0.7 %	0.6 %	0.1 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2036471-5 WG2036471
Analysis started at: 3/6/2025 9:58:05 AM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0270 ppm	2.0640 ppm	0.1299 ppm	1.1028 [SIC 20]	2.0583 ppm	0.0514 ppm	145.4225 ppm
Concentration per Run 1	0.0263 ppm	2.1113 ppm	0.1314 ppm	1.1025 ppm	2.1094 ppm	0.0527 ppm	149.2970 ppm
Concentration per Run 2	0.0275 ppm	2.0584 ppm	0.1311 ppm	1.1054 ppm	2.0468 ppm	0.0511 ppm	144.6136 ppm
Concentration per Run 3	0.0273 ppm	2.0223 ppm	0.1272 ppm	1.1004 ppm	2.0188 ppm	0.0503 ppm	142.3570 ppm
Concentration RSD	2.5 %	2.2 %	1.8 %	0.2 %	2.3 %	2.4 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0527 ppm	0.4983 ppm	0.1902 ppm	0.2638 ppm	1.0494 ppm	44.6230 ppm	0.0015 ppm
Concentration per Run 1	0.0529 ppm	0.5002 ppm	0.1906 ppm	0.2638 ppm	1.0751 ppm	45.9224 ppm	0.0004 ppm
Concentration per Run 2	0.0527 ppm	0.4984 ppm	0.1897 ppm	0.2636 ppm	1.0431 ppm	44.3124 ppm	0.0034 ppm
Concentration per Run 3	0.0524 ppm	0.4962 ppm	0.1902 ppm	0.2640 ppm	1.0299 ppm	43.6340 ppm	0.0006 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %	0.1 %	2.2 %	2.6 %	115.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.1489 ppm	0.8094 ppm	0.9924 ppm	179.4878 ppm	0.4914 ppm	0.5408 ppm	0.5006 ppm
Concentration per Run 1	18.1584 ppm	0.8324 ppm	0.9890 ppm	184.1268 ppm	0.4939 ppm	0.5431 ppm	0.4990 ppm
Concentration per Run 2	18.1566 ppm	0.8032 ppm	0.9942 ppm	179.3658 ppm	0.4909 ppm	0.5415 ppm	0.5014 ppm
Concentration per Run 3	18.1318 ppm	0.7928 ppm	0.9941 ppm	174.9708 ppm	0.4894 ppm	0.5378 ppm	0.5014 ppm
Concentration RSD	0.1 %	2.5 %	0.3 %	2.6 %	0.5 %	0.5 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1247 ppm	4.7575 ppm	0.9528 ppm	1.2147 ppm	0.9382 ppm	0.1156 ppm	0.4756 ppm
Concentration per Run 1	0.1248 ppm	4.7772 ppm	0.9593 ppm	1.2495 ppm	0.9377 ppm	0.1144 ppm	0.4763 ppm
Concentration per Run 2	0.1244 ppm	4.7592 ppm	0.9520 ppm	1.2053 ppm	0.9389 ppm	0.1184 ppm	0.4758 ppm
Concentration per Run 3	0.1250 ppm	4.7361 ppm	0.9471 ppm	1.1893 ppm	0.9379 ppm	0.1140 ppm	0.4747 ppm
Concentration RSD	0.2 %	0.4 %	0.6 %	2.6 %	0.1 %	2.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5923 ppm	92.2292 %	91.0575 %	90.3395 %	99.4815 %	86.5725 %	98.8057 %
Concentration per Run 1	0.5940 ppm	90.1335 %	90.6828 %	90.3418 %	96.8970 %	86.2647 %	98.6326 %
Concentration per Run 2	0.5933 ppm	92.3704 %	91.0377 %	90.0746 %	99.8333 %	86.5141 %	98.7872 %
Concentration per Run 3	0.5895 ppm	94.1839 %	91.4520 %	90.6021 %	101.7142 %	86.9388 %	98.9973 %
Concentration RSD	0.4 %	2.2 %	0.4 %	0.3 %	2.4 %	0.4 %	0.2 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2036471-6D5 WG2036471
Analysis started at: 3/6/2025 10:04:15 AM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0068 ppm	0.0006 ppm	0.0285 ppm	0.0096 ppm	0.0000 ppm	26.1891 ppm
Concentration per Run 1	0.0004 ppm	0.0151 ppm	0.0011 ppm	0.0287 ppm	0.0099 ppm	0.0000 ppm	27.1131 ppm
Concentration per Run 2	-0.0002 ppm	0.0075 ppm	-0.0002 ppm	0.0286 ppm	0.0095 ppm	0.0000 ppm	26.0756 ppm
Concentration per Run 3	0.0003 ppm	-0.0022 ppm	0.0008 ppm	0.0283 ppm	0.0095 ppm	0.0000 ppm	25.3787 ppm
Concentration RSD	255.9 %	127.1 %	113.0 %	0.6 %	2.8 %	44.0 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0031 ppm	0.0066 ppm	6.2905 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0033 ppm	0.0080 ppm	6.5027 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0032 ppm	0.0055 ppm	6.2508 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0029 ppm	0.0064 ppm	6.1181 ppm	0.0009 ppm
Concentration RSD	126.6 %	35.0 %	20.7 %	6.7 %	19.4 %	3.1 %	1,362.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8092 ppm	0.0632 ppm	0.0024 ppm	33.9260 ppm	0.0003 ppm	0.0005 ppm	0.0058 ppm
Concentration per Run 1	1.8264 ppm	0.0654 ppm	0.0025 ppm	35.2244 ppm	0.0004 ppm	0.0006 ppm	0.0062 ppm
Concentration per Run 2	1.8119 ppm	0.0628 ppm	0.0023 ppm	33.6597 ppm	0.0000 ppm	0.0003 ppm	0.0064 ppm
Concentration per Run 3	1.7891 ppm	0.0613 ppm	0.0024 ppm	32.8938 ppm	0.0005 ppm	0.0006 ppm	0.0049 ppm
Concentration RSD	1.0 %	3.3 %	5.4 %	3.5 %	83.1 %	40.2 %	13.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	0.7499 ppm	0.0006 ppm	0.0519 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.7501 ppm	0.0003 ppm	0.0539 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0014 ppm	0.7508 ppm	0.0005 ppm	0.0515 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0012 ppm	0.7487 ppm	0.0009 ppm	0.0502 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	24.9 %	0.1 %	58.6 %	3.6 %	21.3 %	189.3 %	394.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0139 ppm	94.5050 %	95.9063 %	95.0096 %	101.0727 %	95.7812 %	105.2901 %
Concentration per Run 1	0.0138 ppm	92.2509 %	95.3674 %	95.2993 %	97.7834 %	95.9530 %	104.5593 %
Concentration per Run 2	0.0140 ppm	94.8003 %	95.6559 %	94.7580 %	101.6597 %	95.6445 %	104.9157 %
Concentration per Run 3	0.0141 ppm	96.4638 %	96.6955 %	94.9715 %	103.7751 %	95.7462 %	106.3954 %
Concentration RSD	1.1 %	2.2 %	0.7 %	0.3 %	3.0 %	0.2 %	0.9 %

LabBook: WG2037194_03062025T5.imexp

Sample: CCV
Analysis started at: 3/6/2025 10:10:34 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4590 ppm	0.4788 ppm	0.4669 ppm	0.4930 ppm	0.4852 ppm	0.4891 ppm	0.4912 ppm
Concentration per Run 1	0.4565 ppm	0.4762 ppm	0.4707 ppm	0.4949 ppm	0.4826 ppm	0.4865 ppm	0.4823 ppm
Concentration per Run 2	0.4616 ppm	0.4808 ppm	0.4656 ppm	0.4899 ppm	0.4852 ppm	0.4898 ppm	0.4951 ppm
Concentration per Run 3	0.4587 ppm	0.4793 ppm	0.4644 ppm	0.4943 ppm	0.4878 ppm	0.4910 ppm	0.4960 ppm
Recovery Percentage 1	91.792 %	95.758 %	93.376 %	98.606 %	97.034 %	97.817 %	98.231 %
Concentration RSD	0.6 %	0.5 %	0.7 %	0.6 %	0.5 %	0.5 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4858 ppm	0.4975 ppm	0.4723 ppm	0.4655 ppm	0.4992 ppm	4.8464 ppm	0.4501 ppm
Concentration per Run 1	0.4867 ppm	0.4987 ppm	0.4717 ppm	0.4645 ppm	0.4949 ppm	4.8534 ppm	0.4469 ppm
Concentration per Run 2	0.4849 ppm	0.4967 ppm	0.4731 ppm	0.4663 ppm	0.4999 ppm	4.8383 ppm	0.4514 ppm
Concentration per Run 3	0.4857 ppm	0.4972 ppm	0.4721 ppm	0.4656 ppm	0.5030 ppm	4.8474 ppm	0.4519 ppm
Recovery Percentage 1	97.154 %	99.509 %	94.459 %	93.095 %	99.848 %	96.928 %	90.017 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	0.8 %	0.2 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4592 ppm	0.4661 ppm	0.4829 ppm	9.3100 ppm	0.4863 ppm	0.5082 ppm	0.4897 ppm
Concentration per Run 1	0.4605 ppm	0.4636 ppm	0.4835 ppm	9.2590 ppm	0.4873 ppm	0.5099 ppm	0.4892 ppm
Concentration per Run 2	0.4629 ppm	0.4676 ppm	0.4820 ppm	9.3312 ppm	0.4858 ppm	0.5066 ppm	0.4885 ppm
Concentration per Run 3	0.4542 ppm	0.4670 ppm	0.4833 ppm	9.3398 ppm	0.4857 ppm	0.5080 ppm	0.4913 ppm
Recovery Percentage 1	91.834 %	93.212 %	96.584 %	93.100 %	97.256 %	101.632 %	97.933 %
Concentration RSD	1.0 %	0.5 %	0.2 %	0.5 %	0.2 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4910 ppm	5.2717 ppm	0.4769 ppm	0.4562 ppm	0.4602 ppm	0.5018 ppm	0.4607 ppm
Concentration per Run 1	0.4902 ppm	5.2912 ppm	0.4789 ppm	0.4534 ppm	0.4581 ppm	0.5038 ppm	0.4601 ppm
Concentration per Run 2	0.4909 ppm	5.2619 ppm	0.4747 ppm	0.4572 ppm	0.4619 ppm	0.5014 ppm	0.4613 ppm
Concentration per Run 3	0.4918 ppm	5.2621 ppm	0.4772 ppm	0.4579 ppm	0.4608 ppm	0.5001 ppm	0.4606 ppm
Recovery Percentage 1	98.197 %	100.414 %	95.387 %	91.233 %	92.048 %	100.353 %	92.131 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.5 %	0.4 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5098 ppm	98.8027 %	97.1709 %	95.7485 %	106.7156 %	97.7225 %	107.6128 %
Concentration per Run 1	0.5100 ppm	98.8380 %	97.1243 %	95.5387 %	106.8927 %	97.5699 %	108.0103 %
Concentration per Run 2	0.5090 ppm	99.4292 %	97.1875 %	96.1931 %	106.9092 %	97.8498 %	107.3247 %
Concentration per Run 3	0.5103 ppm	98.1409 %	97.2010 %	95.5137 %	106.3450 %	97.7480 %	107.5034 %
Recovery Percentage 1	101.953 %						
Concentration RSD	0.1 %	0.7 %	0.0 %	0.4 %	0.3 %	0.1 %	0.3 %

LabBook: WG2037194_03062025T5.imexp

Sample: CCB
Analysis started at: 3/6/2025 10:16:42 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0040 ppm	0.0010 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0037 ppm
Concentration per Run 1	0.0003 ppm	-0.0032 ppm	0.0015 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	-0.0072 ppm
Concentration per Run 2	0.0005 ppm	0.0068 ppm	-0.0005 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 3	-0.0002 ppm	0.0082 ppm	0.0019 ppm	0.0015 ppm	-0.0001 ppm	-0.0001 ppm	-0.0053 ppm
Recovery Percentage 1	2.769 %	3.957 %	20.047 %	6.109 %	-0.411 %	-0.660 %	-3.716 %
Concentration RSD	171.3 %	156.6 %	127.5 %	19.5 %	165.9 %	134.6 %	119.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0004 ppm	-0.0055 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0006 ppm	0.0260 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0007 ppm	0.0005 ppm	-0.0296 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	0.0002 ppm	-0.0130 ppm	0.0000 ppm
Recovery Percentage 1	-0.376 %	0.259 %	3.359 %	-6.419 %	0.896 %	-0.222 %	-9.230 %
Concentration RSD	22.0 %	61.6 %	27.6 %	15.6 %	41.1 %	514.5 %	101.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0008 ppm	0.0274 ppm	-0.0002 ppm	0.0004 ppm	0.0013 ppm
Concentration per Run 1	0.0005 ppm	0.0002 ppm	0.0008 ppm	0.0307 ppm	-0.0003 ppm	0.0009 ppm	0.0012 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0266 ppm	-0.0002 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0250 ppm	-0.0002 ppm	0.0003 ppm	0.0007 ppm
Recovery Percentage 1	0.220 %	1.876 %	1.536 %	1.372 %	-0.898 %	3.885 %	2.564 %
Concentration RSD	165.3 %	59.7 %	14.1 %	10.7 %	40.5 %	127.8 %	52.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0004 ppm	0.0007 ppm	0.0008 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0013 ppm	0.0001 ppm	-0.0007 ppm	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	2.249 %	0.117 %	0.273 %	0.617 %	4.916 %	-0.721 %	0.725 %
Concentration RSD	550.5 %	70.0 %	566.0 %	163.0 %	49.1 %	583.4 %	107.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	100.8776 %	98.0388 %	96.6607 %	108.0510 %	100.3399 %	107.7433 %
Concentration per Run 1	0.0000 ppm	102.3545 %	98.1099 %	96.4937 %	109.7003 %	100.1591 %	107.4676 %
Concentration per Run 2	-0.0002 ppm	99.9261 %	97.8911 %	96.8832 %	107.4560 %	100.3499 %	107.8591 %
Concentration per Run 3	0.0000 ppm	100.3521 %	98.1154 %	96.6053 %	106.9967 %	100.5106 %	107.9032 %
Recovery Percentage 1	-1.721 %						
Concentration RSD	114.8 %	1.3 %	0.1 %	0.2 %	1.3 %	0.2 %	0.2 %

ICP DataTrace 5

3/6/2025 12:42:49 PM

LabBook: WG2037194_03062025T5.imexp

Sample: WG2037045-1 WG2037045
Analysis started at: 3/6/2025 10:55:54 AM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0124 ppm	0.0001 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0319 ppm
Concentration per Run 1	0.0006 ppm	0.0100 ppm	-0.0005 ppm	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0313 ppm
Concentration per Run 2	0.0003 ppm	0.0086 ppm	0.0019 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0354 ppm
Concentration per Run 3	0.0002 ppm	0.0186 ppm	-0.0011 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0291 ppm
Recovery Percentage 1	5.524 %	12.424 %	1.710 %	3.741 %	3.702 %	0.172 %	31.939 %
Concentration RSD	53.3 %	43.5 %	1,828.9 %	12.1 %	36.8 %	333.2 %	10.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	**0.0643 ppm**	0.0459 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0637 ppm	0.0412 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0651 ppm	0.0431 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	-0.0005 ppm	0.0642 ppm	0.0534 ppm	-0.0021 ppm
Recovery Percentage 1	0.641 %	-0.096 %	4.159 %	-4.273 %	128.657 %	1.835 %	-6.199 %
Concentration RSD	16.2 %	501.8 %	28.8 %	14.6 %	**1.1 %**	14.3 %	205.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0060 ppm	0.0011 ppm	0.0002 ppm	0.0889 ppm	-0.0002 ppm	0.0026 ppm	0.0011 ppm
Concentration per Run 1	0.0075 ppm	0.0010 ppm	0.0002 ppm	0.0856 ppm	-0.0002 ppm	0.0030 ppm	0.0014 ppm
Concentration per Run 2	0.0071 ppm	0.0009 ppm	0.0001 ppm	0.0917 ppm	-0.0002 ppm	0.0020 ppm	0.0010 ppm
Concentration per Run 3	0.0034 ppm	0.0013 ppm	0.0002 ppm	0.0893 ppm	-0.0002 ppm	0.0027 ppm	0.0010 ppm
Recovery Percentage 1	6.017 %	10.527 %	0.364 %	4.443 %	-0.814 %	25.846 %	2.208 %
Concentration RSD	37.4 %	16.6 %	46.1 %	3.4 %	20.3 %	18.7 %	23.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0016 ppm	0.0187 ppm	0.0055 ppm	0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0007 ppm	0.0187 ppm	0.0056 ppm	0.0001 ppm	0.0005 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 2	-0.0012 ppm	0.0187 ppm	0.0054 ppm	0.0002 ppm	0.0007 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	-0.0029 ppm	0.0185 ppm	0.0055 ppm	0.0000 ppm	0.0003 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-16.359 %	3.733 %	10.990 %	0.831 %	4.936 %	-0.982 %	-0.456 %
Concentration RSD	70.6 %	0.6 %	1.2 %	134.6 %	33.8 %	493.4 %	294.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0022 ppm	94.6506 %	97.1051 %	96.0237 %	100.7206 %	97.1902 %	107.4695 %
Concentration per Run 1	0.0022 ppm	94.0531 %	96.9946 %	96.3273 %	100.0453 %	97.4803 %	107.0273 %
Concentration per Run 2	0.0021 ppm	93.6590 %	97.0857 %	95.9240 %	100.2236 %	97.1474 %	107.6685 %
Concentration per Run 3	0.0022 ppm	96.2397 %	97.2351 %	95.8198 %	101.8928 %	96.9431 %	107.7129 %
Recovery Percentage 1	43.015 %						
Concentration RSD	1.2 %	1.5 %	0.1 %	0.3 %	1.0 %	0.3 %	0.4 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2037045-2d2 WG2037045
Analysis started at: 3/6/2025 11:02:24 AM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0470 ppm	2.0131 ppm	0.1149 ppm	0.9913 ppm	2.0615 ppm	0.0515 ppm	9.9680 ppm
Concentration per Run 1	0.0476 ppm	2.0405 ppm	0.1164 ppm	0.9912 ppm	2.0952 ppm	0.0525 ppm	10.1665 ppm
Concentration per Run 2	0.0467 ppm	2.0048 ppm	0.1141 ppm	0.9901 ppm	2.0510 ppm	0.0511 ppm	9.8908 ppm
Concentration per Run 3	0.0466 ppm	1.9942 ppm	0.1141 ppm	0.9925 ppm	2.0382 ppm	0.0508 ppm	9.8465 ppm
Concentration RSD	1.2 %	1.2 %	1.2 %	0.1 %	1.5 %	1.8 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0532 ppm	0.5045 ppm	0.1941 ppm	0.2427 ppm	1.0843 ppm	9.8708 ppm	-0.0001 ppm
Concentration per Run 1	0.0535 ppm	0.5067 ppm	0.1965 ppm	0.2459 ppm	1.1015 ppm	10.0649 ppm	-0.0006 ppm
Concentration per Run 2	0.0530 ppm	0.5024 ppm	0.1931 ppm	0.2416 ppm	1.0806 ppm	9.7844 ppm	-0.0003 ppm
Concentration per Run 3	0.0531 ppm	0.5045 ppm	0.1928 ppm	0.2405 ppm	1.0709 ppm	9.7630 ppm	0.0007 ppm
Concentration RSD	0.5 %	0.4 %	1.0 %	1.2 %	1.4 %	1.7 %	1,012.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.1604 ppm	0.4929 ppm	0.9813 ppm	10.0214 ppm	0.4952 ppm	0.5391 ppm	0.5026 ppm
Concentration per Run 1	9.2370 ppm	0.5013 ppm	0.9843 ppm	10.2301 ppm	0.4974 ppm	0.5422 ppm	0.5057 ppm
Concentration per Run 2	9.0963 ppm	0.4898 ppm	0.9783 ppm	9.9620 ppm	0.4932 ppm	0.5375 ppm	0.5011 ppm
Concentration per Run 3	9.1479 ppm	0.4877 ppm	0.9814 ppm	9.8723 ppm	0.4950 ppm	0.5376 ppm	0.5011 ppm
Concentration RSD	0.8 %	1.5 %	0.3 %	1.9 %	0.4 %	0.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1170 ppm	1.2903 ppm	0.9217 ppm	0.9501 ppm	0.9356 ppm	0.1190 ppm	0.4749 ppm
Concentration per Run 1	0.1186 ppm	1.2965 ppm	0.9262 ppm	0.9698 ppm	0.9457 ppm	0.1203 ppm	0.4802 ppm
Concentration per Run 2	0.1156 ppm	1.2857 ppm	0.9194 ppm	0.9430 ppm	0.9312 ppm	0.1187 ppm	0.4732 ppm
Concentration per Run 3	0.1166 ppm	1.2886 ppm	0.9195 ppm	0.9376 ppm	0.9299 ppm	0.1180 ppm	0.4713 ppm
Concentration RSD	1.3 %	0.4 %	0.4 %	1.8 %	0.9 %	1.0 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5277 ppm	97.3479 %	96.1564 %	95.0593 %	104.8506 %	96.5894 %	107.2157 %
Concentration per Run 1	0.5308 ppm	95.4597 %	96.2222 %	94.9846 %	102.3139 %	96.1099 %	106.2852 %
Concentration per Run 2	0.5260 ppm	97.8946 %	95.8078 %	95.2460 %	105.6060 %	96.9637 %	107.7994 %
Concentration per Run 3	0.5261 ppm	98.6895 %	96.4393 %	94.9473 %	106.6319 %	96.6947 %	107.5624 %
Concentration RSD	0.5 %	1.7 %	0.3 %	0.2 %	2.2 %	0.5 %	0.8 %

LabBook: WG2037194_03062025T5.imexp

Sample: L2511043-03d2 WG2037045
Analysis started at: 3/6/2025 11:08:31 AM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.1223 ppm	4.0349 ppm	0.0124 ppm	0.0065 ppm	0.2964 ppm	0.0000 ppm	5.0402 ppm
Concentration per Run 1	0.1226 ppm	4.0810 ppm	0.0135 ppm	0.0068 ppm	0.2995 ppm	0.0000 ppm	5.0790 ppm
Concentration per Run 2	0.1219 ppm	4.0646 ppm	0.0121 ppm	0.0064 ppm	0.2982 ppm	0.0001 ppm	5.0719 ppm
Concentration per Run 3	0.1222 ppm	3.9593 ppm	0.0117 ppm	0.0064 ppm	0.2916 ppm	0.0000 ppm	4.9697 ppm
Concentration RSD	0.3 %	1.6 %	7.4 %	3.6 %	1.4 %	326.3 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0021 ppm	0.0040 ppm	0.0501 ppm	4.0556 ppm	7.7005 ppm	0.5164 ppm	0.0017 ppm
Concentration per Run 1	0.0021 ppm	0.0040 ppm	0.0504 ppm	4.0574 ppm	7.7566 ppm	0.5242 ppm	0.0029 ppm
Concentration per Run 2	0.0021 ppm	0.0040 ppm	0.0501 ppm	4.0506 ppm	7.7567 ppm	0.5004 ppm	0.0016 ppm
Concentration per Run 3	0.0020 ppm	0.0040 ppm	0.0498 ppm	4.0587 ppm	7.5880 ppm	0.5245 ppm	0.0006 ppm
Concentration RSD	2.0 %	0.8 %	0.7 %	0.1 %	1.3 %	2.7 %	66.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.0963 ppm	0.0241 ppm	0.0242 ppm	0.7638 ppm	0.0208 ppm	0.0969 ppm	0.0047 ppm
Concentration per Run 1	1.0949 ppm	0.0240 ppm	0.0249 ppm	0.7715 ppm	0.0212 ppm	0.0993 ppm	0.0042 ppm
Concentration per Run 2	1.0968 ppm	0.0242 ppm	0.0243 ppm	0.7678 ppm	0.0210 ppm	0.0967 ppm	0.0045 ppm
Concentration per Run 3	1.0972 ppm	0.0242 ppm	0.0235 ppm	0.7521 ppm	0.0202 ppm	0.0946 ppm	0.0055 ppm
Concentration RSD	0.1 %	0.4 %	2.7 %	1.4 %	2.7 %	2.4 %	14.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0128 ppm	1.4728 ppm	0.0795 ppm	0.0210 ppm	0.3602 ppm	-0.0008 ppm	0.0217 ppm
Concentration per Run 1	0.0126 ppm	1.5022 ppm	0.0807 ppm	0.0211 ppm	0.3598 ppm	0.0000 ppm	0.0217 ppm
Concentration per Run 2	0.0115 ppm	1.4702 ppm	0.0793 ppm	0.0212 ppm	0.3613 ppm	-0.0005 ppm	0.0218 ppm
Concentration per Run 3	0.0144 ppm	1.4461 ppm	0.0783 ppm	0.0207 ppm	0.3596 ppm	-0.0020 ppm	0.0215 ppm
Concentration RSD	11.6 %	1.9 %	1.5 %	1.3 %	0.2 %	120.4 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	4.6126 ppm	98.3622 %	98.7195 %	94.0177 %	103.4475 %	94.7376 %	105.5123 %
Concentration per Run 1	4.6871 ppm	97.6877 %	98.9243 %	94.0171 %	103.2431 %	95.3588 %	105.9025 %
Concentration per Run 2	4.6153 ppm	97.8627 %	98.4331 %	94.0184 %	102.7233 %	94.7009 %	105.2687 %
Concentration per Run 3	4.5354 ppm	99.5362 %	98.8011 %	94.0176 %	104.3760 %	94.1530 %	105.3656 %
Concentration RSD	1.6 %	1.0 %	0.3 %	0.0 %	0.8 %	0.6 %	0.3 %

LabBook: WG2037194_03062025T5.imexp

Sample: I2510890-01d2 WG2037045
Analysis started at: 3/6/2025 11:14:47 AM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	97.2244 ppm	0.1090 ppm	0.0076 ppm	1.6352 ppm	0.0083 ppm	56.1284 ppm
Concentration per Run 1	0.0029 ppm	99.5848 ppm	0.1122 ppm	0.0079 ppm	1.6729 ppm	0.0085 ppm	57.5068 ppm
Concentration per Run 2	0.0033 ppm	97.1200 ppm	0.1089 ppm	0.0071 ppm	1.6329 ppm	0.0083 ppm	56.0810 ppm
Concentration per Run 3	0.0027 ppm	94.9683 ppm	0.1058 ppm	0.0076 ppm	1.5996 ppm	0.0081 ppm	54.7974 ppm
Concentration RSD	10.4 %	2.4 %	2.9 %	6.0 %	2.2 %	2.6 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0031 ppm	0.1154 ppm	0.1477 ppm	0.2962 ppm	270.2729 ppm	10.7772 ppm	0.1323 ppm
Concentration per Run 1	-0.0029 ppm	0.1187 ppm	0.1481 ppm	0.2973 ppm	276.8708 ppm	11.0166 ppm	0.1368 ppm
Concentration per Run 2	-0.0030 ppm	0.1152 ppm	0.1472 ppm	0.2967 ppm	269.4179 ppm	10.7646 ppm	0.1310 ppm
Concentration per Run 3	-0.0032 ppm	0.1123 ppm	0.1477 ppm	0.2945 ppm	264.5299 ppm	10.5504 ppm	0.1290 ppm
Concentration RSD	5.8 %	2.8 %	0.3 %	0.5 %	2.3 %	2.2 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	19.6772 ppm	11.4459 ppm	0.0170 ppm	0.9977 ppm	0.2308 ppm	2.4685 ppm	0.0065 ppm
Concentration per Run 1	19.7363 ppm	11.7149 ppm	0.0177 ppm	1.0164 ppm	0.2373 ppm	2.5409 ppm	0.0064 ppm
Concentration per Run 2	19.6817 ppm	11.4343 ppm	0.0170 ppm	0.9956 ppm	0.2303 ppm	2.4591 ppm	0.0071 ppm
Concentration per Run 3	19.6138 ppm	11.1885 ppm	0.0162 ppm	0.9810 ppm	0.2247 ppm	2.4055 ppm	0.0059 ppm
Concentration RSD	0.3 %	2.3 %	4.4 %	1.8 %	2.7 %	2.8 %	9.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0022 ppm	4.0946 ppm	0.0352 ppm	0.3180 ppm	0.6768 ppm	0.0010 ppm	0.1834 ppm
Concentration per Run 1	0.0001 ppm	4.2237 ppm	0.0348 ppm	0.3249 ppm	0.6790 ppm	0.0018 ppm	0.1839 ppm
Concentration per Run 2	-0.0032 ppm	4.0782 ppm	0.0361 ppm	0.3174 ppm	0.6784 ppm	0.0013 ppm	0.1831 ppm
Concentration per Run 3	-0.0036 ppm	3.9820 ppm	0.0346 ppm	0.3116 ppm	0.6731 ppm	-0.0001 ppm	0.1833 ppm
Concentration RSD	91.0 %	3.0 %	2.3 %	2.1 %	0.5 %	101.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7922 ppm	138.3926 %	134.0657 %	131.0448 %	105.5888 %	94.0971 %	107.6499 %
Concentration per Run 1	0.8145 ppm	136.2374 %	134.4151 %	131.1930 %	103.3588 %	93.4747 %	108.1955 %
Concentration per Run 2	0.7885 ppm	138.4707 %	133.9060 %	131.6474 %	105.6796 %	94.4667 %	107.7988 %
Concentration per Run 3	0.7735 ppm	140.4697 %	133.8760 %	130.2940 %	107.7281 %	94.3499 %	106.9553 %
Concentration RSD	2.6 %	1.5 %	0.2 %	0.5 %	2.1 %	0.6 %	0.6 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2037045-3d2 WG2037045
Analysis started at: 3/6/2025 11:21:11 AM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0487 ppm	89.1949 ppm	0.2006 ppm	0.5958 ppm	3.5269 ppm	0.0557 ppm	238.7936 ppm
Concentration per Run 1	0.0493 ppm	88.3874 ppm	0.2042 ppm	0.6053 ppm	3.4808 ppm	0.0551 ppm	234.7829 ppm
Concentration per Run 2	0.0483 ppm	89.4399 ppm	0.2031 ppm	0.5952 ppm	3.4940 ppm	0.0559 ppm	238.4022 ppm
Concentration per Run 3	0.0484 ppm	89.7575 ppm	0.1944 ppm	0.5870 ppm	3.6059 ppm	0.0561 ppm	243.1957 ppm
Concentration RSD	1.1 %	0.8 %	2.7 %	1.5 %	1.9 %	0.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0461 ppm	0.5682 ppm	0.3087 ppm	0.4945 ppm	221.3328 ppm	18.6010 ppm	0.1259 ppm
Concentration per Run 1	0.0473 ppm	0.5784 ppm	0.3108 ppm	0.4990 ppm	217.2774 ppm	18.4197 ppm	0.1248 ppm
Concentration per Run 2	0.0462 ppm	0.5691 ppm	0.3083 ppm	0.4915 ppm	220.9573 ppm	18.6284 ppm	0.1268 ppm
Concentration per Run 3	0.0449 ppm	0.5570 ppm	0.3069 ppm	0.4930 ppm	225.7636 ppm	18.7550 ppm	0.1261 ppm
Concentration RSD	2.6 %	1.9 %	0.6 %	0.8 %	1.9 %	0.9 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	31.7932 ppm	8.5168 ppm	0.8904 ppm	11.0762 ppm	0.6501 ppm	2.1492 ppm	0.1913 ppm
Concentration per Run 1	31.9873 ppm	8.4260 ppm	0.9073 ppm	10.9575 ppm	0.6624 ppm	2.1872 ppm	0.1945 ppm
Concentration per Run 2	31.7743 ppm	8.5426 ppm	0.8911 ppm	11.1067 ppm	0.6504 ppm	2.1539 ppm	0.1941 ppm
Concentration per Run 3	31.6180 ppm	8.5819 ppm	0.8728 ppm	11.1644 ppm	0.6377 ppm	2.1064 ppm	0.1854 ppm
Concentration RSD	0.6 %	1.0 %	1.9 %	1.0 %	1.9 %	1.9 %	2.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0861 ppm	11.4084 ppm	0.7761 ppm	1.4329 ppm	1.3741 ppm	0.1057 ppm	0.6066 ppm
Concentration per Run 1	0.0888 ppm	11.6159 ppm	0.7906 ppm	1.4182 ppm	1.3820 ppm	0.1096 ppm	0.6109 ppm
Concentration per Run 2	0.0831 ppm	11.4300 ppm	0.7750 ppm	1.4347 ppm	1.3763 ppm	0.1033 ppm	0.6054 ppm
Concentration per Run 3	0.0863 ppm	11.1793 ppm	0.7626 ppm	1.4457 ppm	1.3641 ppm	0.1041 ppm	0.6034 ppm
Concentration RSD	3.4 %	1.9 %	1.8 %	1.0 %	0.7 %	3.3 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.4348 ppm	137.7015 %	128.9828 %	124.2439 %	109.2745 %	88.6061 %	104.4809 %
Concentration per Run 1	1.4609 ppm	139.3058 %	129.3396 %	124.7176 %	111.1016 %	88.7402 %	104.4308 %
Concentration per Run 2	1.4367 ppm	136.8368 %	129.0641 %	124.1422 %	108.9671 %	88.3014 %	104.5508 %
Concentration per Run 3	1.4068 ppm	136.9618 %	128.5448 %	123.8720 %	107.7547 %	88.7767 %	104.4613 %
Concentration RSD	1.9 %	1.0 %	0.3 %	0.3 %	1.6 %	0.3 %	0.1 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2037045-4d2 WG2037045
Analysis started at: 3/6/2025 11:27:42 AM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0020 ppm	57.5339 ppm	0.0771 ppm	0.0095 ppm	1.1498 ppm	0.0054 ppm	176.0873 ppm
Concentration per Run 1	0.0019 ppm	56.1557 ppm	0.0772 ppm	0.0099 ppm	1.1250 ppm	0.0053 ppm	172.0759 ppm
Concentration per Run 2	0.0019 ppm	58.1184 ppm	0.0777 ppm	0.0095 ppm	1.1595 ppm	0.0055 ppm	177.9023 ppm
Concentration per Run 3	0.0021 ppm	58.3277 ppm	0.0765 ppm	0.0092 ppm	1.1650 ppm	0.0055 ppm	178.2837 ppm
Concentration RSD	6.2 %	2.1 %	0.7 %	3.8 %	1.9 %	2.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0022 ppm	0.0771 ppm	0.0957 ppm	0.2069 ppm	163.6318 ppm	7.2243 ppm	0.0792 ppm
Concentration per Run 1	-0.0020 ppm	0.0779 ppm	0.0960 ppm	0.2068 ppm	158.0063 ppm	7.0483 ppm	0.0768 ppm
Concentration per Run 2	-0.0023 ppm	0.0770 ppm	0.0958 ppm	0.2081 ppm	166.4492 ppm	7.2788 ppm	0.0803 ppm
Concentration per Run 3	-0.0024 ppm	0.0764 ppm	0.0953 ppm	0.2057 ppm	166.4398 ppm	7.3458 ppm	0.0805 ppm
Concentration RSD	10.0 %	1.0 %	0.4 %	0.6 %	3.0 %	2.2 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.9938 ppm	5.5312 ppm	0.0120 ppm	1.0346 ppm	0.1496 ppm	1.1744 ppm	0.0044 ppm
Concentration per Run 1	15.0134 ppm	5.3923 ppm	0.0122 ppm	1.0077 ppm	0.1511 ppm	1.1884 ppm	0.0062 ppm
Concentration per Run 2	15.0531 ppm	5.5925 ppm	0.0122 ppm	1.0478 ppm	0.1499 ppm	1.1712 ppm	0.0043 ppm
Concentration per Run 3	14.9149 ppm	5.6087 ppm	0.0117 ppm	1.0484 ppm	0.1478 ppm	1.1635 ppm	0.0028 ppm
Concentration RSD	0.5 %	2.2 %	2.3 %	2.3 %	1.1 %	1.1 %	39.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0019 ppm	5.5077 ppm	0.0179 ppm	0.3827 ppm	0.8105 ppm	0.0026 ppm	0.1295 ppm
Concentration per Run 1	0.0005 ppm	5.5812 ppm	0.0177 ppm	0.3729 ppm	0.8120 ppm	0.0032 ppm	0.1302 ppm
Concentration per Run 2	-0.0032 ppm	5.5118 ppm	0.0180 ppm	0.3864 ppm	0.8127 ppm	0.0036 ppm	0.1296 ppm
Concentration per Run 3	-0.0029 ppm	5.4302 ppm	0.0181 ppm	0.3887 ppm	0.8069 ppm	0.0011 ppm	0.1286 ppm
Concentration RSD	108.3 %	1.4 %	1.2 %	2.2 %	0.4 %	50.2 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4737 ppm	128.6615 %	121.3749 %	118.1457 %	109.7502 %	89.9237 %	105.2713 %
Concentration per Run 1	0.4792 ppm	129.6546 %	121.6832 %	118.8446 %	111.7321 %	90.0714 %	105.6856 %
Concentration per Run 2	0.4736 ppm	128.2359 %	121.2830 %	118.1979 %	109.1277 %	89.9667 %	104.9304 %
Concentration per Run 3	0.4682 ppm	128.0939 %	121.1584 %	117.3948 %	108.3908 %	89.7329 %	105.1980 %
Concentration RSD	1.2 %	0.7 %	0.2 %	0.6 %	1.6 %	0.2 %	0.4 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2037045-5d2 WG2037045
Analysis started at: 3/6/2025 11:34:01 AM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0264 ppm	84.1845 ppm	0.2211 ppm	0.6789 ppm	3.2029 ppm	0.0526 ppm	56.4782 ppm
Concentration per Run 1	0.0267 ppm	83.4918 ppm	0.2223 ppm	0.6792 ppm	3.1605 ppm	0.0523 ppm	56.0884 ppm
Concentration per Run 2	0.0265 ppm	84.3403 ppm	0.2172 ppm	0.6742 ppm	3.1922 ppm	0.0526 ppm	56.5274 ppm
Concentration per Run 3	0.0261 ppm	84.7215 ppm	0.2240 ppm	0.6834 ppm	3.2559 ppm	0.0530 ppm	56.8188 ppm
Concentration RSD	1.2 %	0.7 %	1.6 %	0.7 %	1.5 %	0.6 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0484 ppm	0.5850 ppm	0.3171 ppm	0.5089 ppm	229.4344 ppm	18.6414 ppm	0.1135 ppm
Concentration per Run 1	0.0485 ppm	0.5868 ppm	0.3178 ppm	0.5088 ppm	227.5991 ppm	18.5092 ppm	0.1113 ppm
Concentration per Run 2	0.0479 ppm	0.5797 ppm	0.3198 ppm	0.5129 ppm	230.4912 ppm	18.6286 ppm	0.1132 ppm
Concentration per Run 3	0.0487 ppm	0.5886 ppm	0.3136 ppm	0.5050 ppm	230.2127 ppm	18.7865 ppm	0.1160 ppm
Concentration RSD	0.8 %	0.8 %	1.0 %	0.8 %	0.7 %	0.7 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	27.1515 ppm	10.0395 ppm	0.9642 ppm	10.1036 ppm	0.6879 ppm	3.0047 ppm	0.4815 ppm
Concentration per Run 1	27.1384 ppm	9.9588 ppm	0.9651 ppm	10.0215 ppm	0.6900 ppm	3.0110 ppm	0.4848 ppm
Concentration per Run 2	27.4415 ppm	10.0300 ppm	0.9564 ppm	10.0991 ppm	0.6833 ppm	2.9823 ppm	0.4772 ppm
Concentration per Run 3	26.8744 ppm	10.1297 ppm	0.9711 ppm	10.1903 ppm	0.6905 ppm	3.0210 ppm	0.4825 ppm
Concentration RSD	1.0 %	0.9 %	0.8 %	0.8 %	0.6 %	0.7 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1158 ppm	5.4955 ppm	0.9126 ppm	1.1134 ppm	1.5163 ppm	0.1127 ppm	0.6091 ppm
Concentration per Run 1	0.1156 ppm	5.5576 ppm	0.9170 ppm	1.1036 ppm	1.5117 ppm	0.1134 ppm	0.6100 ppm
Concentration per Run 2	0.1160 ppm	5.4147 ppm	0.9040 ppm	1.1107 ppm	1.5338 ppm	0.1111 ppm	0.6136 ppm
Concentration per Run 3	0.1157 ppm	5.5143 ppm	0.9167 ppm	1.1260 ppm	1.5036 ppm	0.1135 ppm	0.6037 ppm
Concentration RSD	0.2 %	1.3 %	0.8 %	1.0 %	1.0 %	1.2 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.2954 ppm	137.1695 %	131.3279 %	128.6281 %	111.0678 %	92.5468 %	107.0112 %
Concentration per Run 1	1.2974 ppm	137.0885 %	131.0673 %	128.5991 %	111.3698 %	92.3361 %	107.0722 %
Concentration per Run 2	1.2847 ppm	137.0578 %	131.2792 %	129.3150 %	111.2982 %	93.2447 %	105.9118 %
Concentration per Run 3	1.3042 ppm	137.3623 %	131.6370 %	127.9703 %	110.5353 %	92.0596 %	108.0495 %
Concentration RSD	0.8 %	0.1 %	0.2 %	0.5 %	0.4 %	0.7 %	1.0 %

LabBook: WG2037194_03062025T5.imexp

Sample: WG2037045-6d10 WG2037045
Analysis started at: 3/6/2025 11:40:29 AM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	17.8543 ppm	0.0230 ppm	0.0038 ppm	0.3055 ppm	0.0015 ppm	10.4607 ppm
Concentration per Run 1	0.0008 ppm	18.0933 ppm	0.0211 ppm	0.0039 ppm	0.3093 ppm	0.0015 ppm	10.6072 ppm
Concentration per Run 2	0.0003 ppm	17.7075 ppm	0.0238 ppm	0.0038 ppm	0.3028 ppm	0.0015 ppm	10.3738 ppm
Concentration per Run 3	0.0005 ppm	17.7621 ppm	0.0242 ppm	0.0037 ppm	0.3042 ppm	0.0016 ppm	10.4011 ppm
Concentration RSD	51.2 %	1.2 %	7.4 %	1.7 %	1.1 %	1.5 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0004 ppm	0.0251 ppm	0.0313 ppm	0.0588 ppm	52.3648 ppm	1.9317 ppm	0.0222 ppm
Concentration per Run 1	-0.0004 ppm	0.0251 ppm	0.0314 ppm	0.0589 ppm	52.9816 ppm	1.9789 ppm	0.0231 ppm
Concentration per Run 2	-0.0004 ppm	0.0251 ppm	0.0314 ppm	0.0592 ppm	51.9788 ppm	1.9171 ppm	0.0212 ppm
Concentration per Run 3	-0.0004 ppm	0.0250 ppm	0.0312 ppm	0.0584 ppm	52.1342 ppm	1.8990 ppm	0.0223 ppm
Concentration RSD	1.9 %	0.1 %	0.4 %	0.7 %	1.0 %	2.2 %	4.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.1348 ppm	2.1387 ppm	0.0043 ppm	0.1792 ppm	0.0481 ppm	0.5472 ppm	0.0018 ppm
Concentration per Run 1	4.1398 ppm	2.1636 ppm	0.0044 ppm	0.1786 ppm	0.0482 ppm	0.5459 ppm	0.0010 ppm
Concentration per Run 2	4.1650 ppm	2.1248 ppm	0.0042 ppm	0.1775 ppm	0.0478 ppm	0.5480 ppm	0.0031 ppm
Concentration per Run 3	4.0995 ppm	2.1277 ppm	0.0043 ppm	0.1816 ppm	0.0481 ppm	0.5478 ppm	0.0013 ppm
Concentration RSD	0.8 %	1.0 %	1.7 %	1.2 %	0.4 %	0.2 %	61.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.9704 ppm	0.0076 ppm	0.0587 ppm	0.1394 ppm	0.0015 ppm	0.0379 ppm
Concentration per Run 1	0.0002 ppm	0.9754 ppm	0.0078 ppm	0.0592 ppm	0.1394 ppm	0.0013 ppm	0.0379 ppm
Concentration per Run 2	-0.0004 ppm	0.9755 ppm	0.0076 ppm	0.0585 ppm	0.1397 ppm	0.0011 ppm	0.0381 ppm
Concentration per Run 3	-0.0014 ppm	0.9604 ppm	0.0074 ppm	0.0582 ppm	0.1389 ppm	0.0020 ppm	0.0376 ppm
Concentration RSD	155.5 %	0.9 %	2.9 %	0.9 %	0.3 %	30.9 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1741 ppm	106.9094 %	105.1687 %	104.4746 %	108.3146 %	98.4509 %	109.8447 %
Concentration per Run 1	0.1734 ppm	105.4042 %	104.7812 %	104.3389 %	106.6915 %	98.6184 %	109.6860 %
Concentration per Run 2	0.1748 ppm	107.7373 %	104.5987 %	104.5114 %	109.3361 %	98.2706 %	109.1660 %
Concentration per Run 3	0.1740 ppm	107.5868 %	106.1264 %	104.5736 %	108.9161 %	98.4638 %	110.6821 %
Concentration RSD	0.4 %	1.2 %	0.8 %	0.1 %	1.3 %	0.2 %	0.7 %

LabBook: WG2037194_03062025T5.imexp

Sample: CCV
Analysis started at: 3/6/2025 11:50:19 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4579 ppm	0.4822 ppm	0.4637 ppm	0.4904 ppm	0.4868 ppm	0.4867 ppm	0.4843 ppm
Concentration per Run 1	0.4602 ppm	0.4811 ppm	0.4625 ppm	0.4894 ppm	0.4856 ppm	0.4871 ppm	0.4855 ppm
Concentration per Run 2	0.4573 ppm	0.4782 ppm	0.4639 ppm	0.4897 ppm	0.4875 ppm	0.4863 ppm	0.4810 ppm
Concentration per Run 3	0.4563 ppm	0.4874 ppm	0.4646 ppm	0.4922 ppm	0.4872 ppm	0.4866 ppm	0.4865 ppm
Recovery Percentage 1	91.582 %	96.445 %	92.730 %	98.085 %	97.353 %	97.334 %	96.868 %
Concentration RSD	0.4 %	1.0 %	0.2 %	0.3 %	0.2 %	0.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4844 ppm	0.4951 ppm	0.4740 ppm	0.4635 ppm	0.5005 ppm	4.8176 ppm	0.4483 ppm
Concentration per Run 1	0.4843 ppm	0.4947 ppm	0.4784 ppm	0.4669 ppm	0.4998 ppm	4.8303 ppm	0.4485 ppm
Concentration per Run 2	0.4840 ppm	0.4944 ppm	0.4717 ppm	0.4616 ppm	0.4983 ppm	4.8168 ppm	0.4470 ppm
Concentration per Run 3	0.4849 ppm	0.4963 ppm	0.4719 ppm	0.4621 ppm	0.5033 ppm	4.8056 ppm	0.4494 ppm
Recovery Percentage 1	96.877 %	99.027 %	94.795 %	92.709 %	100.095 %	96.352 %	89.660 %
Concentration RSD	0.1 %	0.2 %	0.8 %	0.6 %	0.5 %	0.3 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4625 ppm	0.4632 ppm	0.4796 ppm	9.4583 ppm	0.4835 ppm	0.5064 ppm	0.4846 ppm
Concentration per Run 1	0.4645 ppm	0.4644 ppm	0.4777 ppm	9.4950 ppm	0.4834 ppm	0.5063 ppm	0.4835 ppm
Concentration per Run 2	0.4633 ppm	0.4628 ppm	0.4792 ppm	9.4411 ppm	0.4825 ppm	0.5051 ppm	0.4851 ppm
Concentration per Run 3	0.4596 ppm	0.4625 ppm	0.4819 ppm	9.4389 ppm	0.4845 ppm	0.5079 ppm	0.4851 ppm
Recovery Percentage 1	92.495 %	92.643 %	95.920 %	94.583 %	96.693 %	101.281 %	96.910 %
Concentration RSD	0.6 %	0.2 %	0.4 %	0.3 %	0.2 %	0.3 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4888 ppm	5.2387 ppm	0.4734 ppm	0.4521 ppm	0.4601 ppm	0.4973 ppm	0.4600 ppm
Concentration per Run 1	0.4891 ppm	5.2345 ppm	0.4735 ppm	0.4536 ppm	0.4627 ppm	0.4969 ppm	0.4642 ppm
Concentration per Run 2	0.4892 ppm	5.2352 ppm	0.4728 ppm	0.4511 ppm	0.4590 ppm	0.4966 ppm	0.4577 ppm
Concentration per Run 3	0.4883 ppm	5.2466 ppm	0.4740 ppm	0.4517 ppm	0.4585 ppm	0.4983 ppm	0.4580 ppm
Recovery Percentage 1	97.769 %	99.785 %	94.685 %	90.428 %	92.011 %	99.455 %	91.991 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.3 %	0.5 %	0.2 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5093 ppm	98.2717 %	97.8898 %	97.0079 %	107.0011 %	99.3737 %	108.2520 %
Concentration per Run 1	0.5085 ppm	99.1123 %	97.6441 %	97.1767 %	106.8092 %	99.5283 %	107.4181 %
Concentration per Run 2	0.5084 ppm	97.4876 %	97.8730 %	97.1741 %	106.8407 %	99.4831 %	108.2709 %
Concentration per Run 3	0.5109 ppm	98.2153 %	98.1523 %	96.6730 %	107.3535 %	99.1095 %	109.0670 %
Recovery Percentage 1	101.857 %						
Concentration RSD	0.3 %	0.8 %	0.3 %	0.3 %	0.3 %	0.2 %	0.8 %

LabBook: WG2037194_03062025T5.imexp

Sample: CCB
Analysis started at: 3/6/2025 11:56:29 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	0.0003 ppm	-0.0017 ppm	0.0004 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	0.0003 ppm	0.0013 ppm	-0.0008 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 3	0.0002 ppm	-0.0006 ppm	0.0003 ppm	0.0017 ppm	0.0003 ppm	0.0000 ppm	0.0043 ppm
Recovery Percentage 1	3.529 %	-0.336 %	-1.161 %	5.390 %	2.211 %	0.137 %	2.683 %
Concentration RSD	32.9 %	445.2 %	1,123.1 %	12.0 %	31.3 %	701.7 %	64.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0007 ppm	0.0010 ppm	0.0030 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0007 ppm	0.0019 ppm	0.0076 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0016 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0006 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm
Recovery Percentage 1	-0.280 %	0.960 %	3.127 %	-6.730 %	1.999 %	0.120 %	-4.983 %
Concentration RSD	565.8 %	45.9 %	72.5 %	6.1 %	85.0 %	134.3 %	225.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0006 ppm	-0.0013 ppm	-0.0001 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0040 ppm	-0.0002 ppm	0.0004 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0018 ppm
Concentration per Run 3	-0.0011 ppm	0.0001 ppm	0.0006 ppm	-0.0082 ppm	0.0001 ppm	0.0003 ppm	-0.0005 ppm
Recovery Percentage 1	-0.405 %	0.671 %	1.173 %	-0.065 %	-0.284 %	3.883 %	2.042 %
Concentration RSD	154.8 %	275.4 %	9.7 %	478.0 %	235.2 %	21.3 %	127.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0022 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 2	0.0016 ppm	0.0018 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0012 ppm	0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-0.481 %	0.383 %	-0.121 %	0.252 %	2.410 %	2.776 %	0.887 %
Concentration RSD	3,038.7 %	15.0 %	697.3 %	176.9 %	104.7 %	50.8 %	191.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.8886 %	98.2026 %	96.9406 %	107.9696 %	101.0853 %	109.4732 %
Concentration per Run 1	-0.0002 ppm	101.8356 %	98.0953 %	96.3896 %	108.5228 %	100.1126 %	109.5896 %
Concentration per Run 2	0.0002 ppm	100.7143 %	98.1130 %	96.9645 %	107.5710 %	101.2599 %	109.3849 %
Concentration per Run 3	0.0000 ppm	100.1158 %	98.3995 %	97.4677 %	107.8150 %	101.8836 %	109.4451 %
Recovery Percentage 1	0.236 %						
Concentration RSD	1,470.2 %	0.9 %	0.2 %	0.6 %	0.5 %	0.9 %	0.1 %

LabBook: WG2037194_03062025T5.imexp

Sample: LDR 300 Fe pass 89.7
Analysis started at: 3/6/2025 12:06:20 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0028 ppm	0.0115 ppm	0.0022 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	-0.0078 ppm
Concentration per Run 1	0.0033 ppm	0.0163 ppm	0.0014 ppm	0.0015 ppm	0.0005 ppm	0.0000 ppm	-0.0089 ppm
Concentration per Run 2	0.0025 ppm	0.0046 ppm	0.0037 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm	-0.0037 ppm
Concentration per Run 3	0.0025 ppm	0.0135 ppm	0.0014 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	-0.0106 ppm
Concentration RSD	17.9 %	53.2 %	61.4 %	31.2 %	59.6 %	216.7 %	46.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0039 ppm	-0.0005 ppm	-0.0030 ppm	-0.0016 ppm	269.0918 ppm	0.0072 ppm	-0.0019 ppm
Concentration per Run 1	-0.0039 ppm	-0.0004 ppm	-0.0029 ppm	-0.0017 ppm	268.6700 ppm	-0.0030 ppm	-0.0016 ppm
Concentration per Run 2	-0.0040 ppm	-0.0006 ppm	-0.0028 ppm	-0.0015 ppm	270.0121 ppm	0.0120 ppm	-0.0020 ppm
Concentration per Run 3	-0.0040 ppm	-0.0005 ppm	-0.0032 ppm	-0.0016 ppm	268.5932 ppm	0.0125 ppm	-0.0022 ppm
Concentration RSD	1.2 %	15.5 %	7.0 %	7.0 %	0.3 %	122.9 %	15.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0143 ppm	0.0000 ppm	-0.0020 ppm	0.0031 ppm	-0.0028 ppm	-0.0003 ppm	0.0048 ppm
Concentration per Run 1	-0.0116 ppm	0.0000 ppm	-0.0019 ppm	-0.0015 ppm	-0.0029 ppm	0.0002 ppm	0.0035 ppm
Concentration per Run 2	-0.0147 ppm	0.0002 ppm	-0.0021 ppm	0.0056 ppm	-0.0026 ppm	-0.0006 ppm	0.0052 ppm
Concentration per Run 3	-0.0165 ppm	-0.0001 ppm	-0.0019 ppm	0.0053 ppm	-0.0029 ppm	-0.0005 ppm	0.0056 ppm
Concentration RSD	17.3 %	1,101.3 %	4.9 %	128.8 %	6.9 %	159.1 %	23.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	0.0042 ppm	0.0021 ppm	0.0002 ppm	0.0003 ppm	0.0025 ppm	0.0016 ppm
Concentration per Run 1	-0.0033 ppm	0.0053 ppm	0.0015 ppm	0.0001 ppm	0.0003 ppm	0.0033 ppm	0.0017 ppm
Concentration per Run 2	-0.0002 ppm	0.0036 ppm	0.0023 ppm	0.0002 ppm	0.0003 ppm	0.0023 ppm	0.0016 ppm
Concentration per Run 3	-0.0011 ppm	0.0038 ppm	0.0025 ppm	0.0003 ppm	0.0004 ppm	0.0017 ppm	0.0015 ppm
Concentration RSD	101.7 %	22.5 %	24.6 %	52.4 %	19.7 %	33.3 %	6.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	98.7302 %	96.2098 %	93.9794 %	109.7450 %	95.3399 %	108.8114 %
Concentration per Run 1	0.0003 ppm	98.6574 %	96.1642 %	94.2092 %	109.7363 %	95.4359 %	108.8927 %
Concentration per Run 2	0.0004 ppm	98.4635 %	96.3416 %	93.9466 %	109.5584 %	95.3971 %	108.7094 %
Concentration per Run 3	0.0004 ppm	99.0697 %	96.1237 %	93.7824 %	109.9404 %	95.1866 %	108.8320 %
Concentration RSD	21.0 %	0.3 %	0.1 %	0.2 %	0.2 %	0.1 %	0.1 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: Blank TAA Trace5
Analysis started at: 3/6/2025 8:38:21 PM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.7 %	14.2 %	0.3 %	0.2 %	0.5 %	7.9 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.1 %	-0.3 %	0.0 %	2.1 %	0.1 %	-0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	3.7 %	1.3 %	0.3 %	4.3 %	-0.1 %	-1.1 %	-0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	0.0 %	0.9 %	-0.7 %	-0.2 %	-6.5 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.1 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

LabBook: WG2037545_03072025T5.imexp

Sample: ICAL
Analysis started at: 3/6/2025 8:44:54 PM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9988 ppm	25.3034 ppm	1.0034 ppm	1.0020 ppm	1.0106 ppm	1.0124 ppm	10.1365 ppm
Concentration per Run 2	0.9933 ppm	24.9255 ppm	0.9943 ppm	0.9968 ppm	0.9934 ppm	0.9977 ppm	9.9556 ppm
Concentration per Run 3	1.0078 ppm	24.7711 ppm	1.0024 ppm	1.0011 ppm	0.9959 ppm	0.9899 ppm	9.9079 ppm
Concentration RSD	0.7 %	1.1 %	0.5 %	0.3 %	0.9 %	1.1 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0025 ppm	1.0023 ppm	0.9984 ppm	0.9966 ppm	25.3014 ppm	35.5360 ppm	1.0124 ppm
Concentration per Run 2	0.9949 ppm	0.9950 ppm	0.9969 ppm	0.9967 ppm	24.9388 ppm	34.9379 ppm	0.9982 ppm
Concentration per Run 3	1.0025 ppm	1.0027 ppm	1.0047 ppm	1.0067 ppm	24.7597 ppm	34.5261 ppm	0.9894 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	0.6 %	1.1 %	1.5 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9960 ppm	1.0128 ppm	0.9986 ppm	25.3313 ppm	1.0030 ppm	1.0024 ppm	1.0021 ppm
Concentration per Run 2	9.9564 ppm	0.9986 ppm	0.9960 ppm	24.9553 ppm	0.9949 ppm	0.9955 ppm	0.9959 ppm
Concentration per Run 3	10.0476 ppm	0.9887 ppm	1.0054 ppm	24.7134 ppm	1.0021 ppm	1.0021 ppm	1.0020 ppm
Concentration RSD	0.5 %	1.2 %	0.5 %	1.2 %	0.4 %	0.4 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0033 ppm	10.0250 ppm	1.0025 ppm	1.0131 ppm	0.9978 ppm	0.9967 ppm	0.9976 ppm
Concentration per Run 2	0.9972 ppm	9.9634 ppm	0.9940 ppm	1.0004 ppm	0.9949 ppm	0.9980 ppm	0.9959 ppm
Concentration per Run 3	0.9995 ppm	10.0116 ppm	1.0034 ppm	0.9865 ppm	1.0074 ppm	1.0053 ppm	1.0065 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	1.3 %	0.7 %	0.5 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	96.3858 %	96.5596 %	97.5826 %	97.0743 %	94.6089 %	98.4070 %
Concentration per Run 1	1.0025 ppm	95.3532 %	96.3523 %	97.4368 %	95.7993 %	94.5093 %	98.3987 %
Concentration per Run 2	0.9946 ppm	96.7254 %	96.4685 %	98.1504 %	97.1239 %	94.9847 %	98.8489 %
Concentration per Run 3	1.0029 ppm	97.0789 %	96.8581 %	97.1608 %	98.2997 %	94.3326 %	97.9734 %
Concentration RSD	0.5 %	0.9 %	0.3 %	0.5 %	1.3 %	0.4 %	0.4 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: ICV
Analysis started at: 3/6/2025 8:51:05 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4904 ppm	0.4903 ppm	0.4868 ppm	0.4769 ppm	0.4732 ppm	0.4937 ppm	0.5004 ppm
Concentration per Run 1	0.4907 ppm	0.4869 ppm	0.4874 ppm	0.4762 ppm	0.4688 ppm	0.4872 ppm	0.4889 ppm
Concentration per Run 2	0.4839 ppm	0.4919 ppm	0.4859 ppm	0.4758 ppm	0.4742 ppm	0.4953 ppm	0.5009 ppm
Concentration per Run 3	0.4968 ppm	0.4922 ppm	0.4870 ppm	0.4787 ppm	0.4767 ppm	0.4987 ppm	0.5113 ppm
Recovery Percentage 1	98.089 %	98.065 %	97.358 %	95.378 %	94.644 %	98.741 %	100.075 %
Concentration RSD	1.3 %	0.6 %	0.2 %	0.3 %	0.9 %	1.2 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4864 ppm	0.4968 ppm	0.4925 ppm	0.4846 ppm	0.5136 ppm	5.0188 ppm	0.4729 ppm
Concentration per Run 1	0.4860 ppm	0.4957 ppm	0.4961 ppm	0.4878 ppm	0.5071 ppm	4.9486 ppm	0.4662 ppm
Concentration per Run 2	0.4850 ppm	0.4958 ppm	0.4848 ppm	0.4770 ppm	0.5139 ppm	5.0416 ppm	0.4749 ppm
Concentration per Run 3	0.4882 ppm	0.4990 ppm	0.4966 ppm	0.4890 ppm	0.5197 ppm	5.0663 ppm	0.4775 ppm
Recovery Percentage 1	97.284 %	99.365 %	98.505 %	96.919 %	102.715 %	100.376 %	94.572 %
Concentration RSD	0.3 %	0.4 %	1.4 %	1.4 %	1.2 %	1.2 %	1.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4980 ppm	0.4834 ppm	0.4817 ppm	9.7314 ppm	0.4979 ppm	0.4984 ppm	0.4931 ppm
Concentration per Run 1	0.4988 ppm	0.4764 ppm	0.4800 ppm	9.6124 ppm	0.4975 ppm	0.4977 ppm	0.4908 ppm
Concentration per Run 2	0.4884 ppm	0.4858 ppm	0.4801 ppm	9.7591 ppm	0.4968 ppm	0.4973 ppm	0.4922 ppm
Concentration per Run 3	0.5067 ppm	0.4881 ppm	0.4849 ppm	9.8226 ppm	0.4993 ppm	0.5003 ppm	0.4963 ppm
Recovery Percentage 1	99.600 %	96.683 %	96.333 %	97.314 %	99.576 %	99.681 %	98.621 %
Concentration RSD	1.8 %	1.3 %	0.6 %	1.1 %	0.3 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4878 ppm	5.3899 ppm	0.4978 ppm	0.4733 ppm	0.4919 ppm	0.5250 ppm	0.4865 ppm
Concentration per Run 1	0.4855 ppm	5.3845 ppm	0.4971 ppm	0.4657 ppm	0.4940 ppm	0.5234 ppm	0.4893 ppm
Concentration per Run 2	0.4868 ppm	5.3829 ppm	0.4962 ppm	0.4762 ppm	0.4846 ppm	0.5257 ppm	0.4790 ppm
Concentration per Run 3	0.4910 ppm	5.4024 ppm	0.5001 ppm	0.4779 ppm	0.4970 ppm	0.5260 ppm	0.4913 ppm
Recovery Percentage 1	97.555 %	102.665 %	99.557 %	94.654 %	98.372 %	105.003 %	97.309 %
Concentration RSD	0.6 %	0.2 %	0.4 %	1.4 %	1.3 %	0.3 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4930 ppm	99.3154 %	98.9167 %	99.6610 %	100.1784 %	98.7010 %	101.2338 %
Concentration per Run 1	0.4917 ppm	99.6257 %	98.6928 %	99.8660 %	100.8389 %	98.8361 %	100.7010 %
Concentration per Run 2	0.4920 ppm	99.6594 %	99.0182 %	99.5064 %	100.3290 %	99.0021 %	102.6743 %
Concentration per Run 3	0.4952 ppm	98.6612 %	99.0390 %	99.6104 %	99.3672 %	98.2648 %	100.3260 %
Recovery Percentage 1	98.591 %						
Concentration RSD	0.4 %	0.6 %	0.2 %	0.2 %	0.7 %	0.4 %	1.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: ICB
Analysis started at: 3/6/2025 8:58:03 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0031 ppm	-0.0014 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0043 ppm
Concentration per Run 1	0.0002 ppm	-0.0038 ppm	-0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 2	0.0001 ppm	-0.0015 ppm	-0.0016 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	0.0034 ppm
Concentration per Run 3	-0.0004 ppm	-0.0039 ppm	-0.0017 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0031 ppm
Recovery Percentage 1	-0.303 %	-3.100 %	-28.510 %	1.103 %	0.521 %	1.373 %	4.310 %
Concentration RSD	1,396.0 %	43.8 %	28.7 %	72.5 %	203.1 %	38.9 %	41.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0171 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0005 ppm	-0.0345 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0012 ppm	-0.0178 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0011 ppm	0.0003 ppm
Recovery Percentage 1	0.479 %	-0.342 %	0.333 %	-1.503 %	-0.020 %	-0.683 %	-4.902 %
Concentration RSD	122.6 %	110.9 %	206.3 %	77.5 %	10,865.6 %	104.2 %	144.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0041 ppm	0.0004 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 1	-0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0018 ppm	0.0003 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 2	-0.0005 ppm	-0.0001 ppm	0.0003 ppm	-0.0027 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	0.0003 ppm	0.0003 ppm	-0.0077 ppm	0.0005 ppm	0.0004 ppm	0.0006 ppm
Recovery Percentage 1	0.035 %	0.921 %	0.701 %	-0.203 %	1.445 %	3.253 %	1.225 %
Concentration RSD	1,978.5 %	228.4 %	23.8 %	77.5 %	27.7 %	77.8 %	99.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	-0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0023 ppm	-0.0015 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 3	0.0007 ppm	-0.0012 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0012 ppm	0.0000 ppm
Recovery Percentage 1	10.322 %	-0.189 %	1.089 %	0.234 %	1.419 %	7.856 %	0.108 %
Concentration RSD	111.9 %	77.4 %	39.1 %	362.7 %	71.9 %	39.5 %	810.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	101.2417 %	99.1895 %	101.3023 %	100.2142 %	101.2328 %	100.0995 %
Concentration per Run 1	0.0000 ppm	105.6754 %	98.9478 %	100.6775 %	104.0923 %	100.7249 %	99.0871 %
Concentration per Run 2	0.0000 ppm	99.8193 %	99.1545 %	100.2388 %	99.0032 %	99.5698 %	101.1725 %
Concentration per Run 3	0.0000 ppm	98.2304 %	99.4661 %	102.9905 %	97.5469 %	103.4036 %	100.0389 %
Recovery Percentage 1	0.134 %						
Concentration RSD	271.0 %	3.9 %	0.3 %	1.5 %	3.4 %	1.9 %	1.0 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: LLOQ RL
Analysis started at: 3/6/2025 9:04:39 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0055 ppm	0.1100 ppm	0.0057 ppm	0.0299 ppm	0.0103 ppm	0.0055 ppm	**0.1288 ppm**
Concentration per Run 1	0.0057 ppm	0.1167 ppm	0.0075 ppm	0.0301 ppm	0.0106 ppm	0.0057 ppm	0.1386 ppm
Concentration per Run 2	0.0055 ppm	0.1046 ppm	0.0038 ppm	0.0300 ppm	0.0102 ppm	0.0054 ppm	0.1254 ppm
Concentration per Run 3	0.0053 ppm	0.1086 ppm	0.0059 ppm	0.0296 ppm	0.0100 ppm	0.0053 ppm	0.1225 ppm
Recovery Percentage 1	109.806 %	109.972 %	114.000 %	99.711 %	102.784 %	109.172 %	128.832 %
Concentration RSD	3.4 %	5.6 %	32.4 %	0.8 %	3.2 %	3.5 %	**6.7 %**

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0101 ppm	0.0105 ppm	0.0102 ppm	**0.0611 ppm**	2.7006 ppm	0.0096 ppm
Concentration per Run 1	0.0041 ppm	0.0101 ppm	0.0106 ppm	0.0101 ppm	0.0646 ppm	2.8103 ppm	0.0092 ppm
Concentration per Run 2	0.0041 ppm	0.0100 ppm	0.0105 ppm	0.0102 ppm	0.0605 ppm	2.7081 ppm	0.0095 ppm
Concentration per Run 3	0.0041 ppm	0.0101 ppm	0.0103 ppm	0.0104 ppm	0.0581 ppm	2.5834 ppm	0.0101 ppm
Recovery Percentage 1	102.809 %	100.579 %	105.038 %	102.231 %	122.169 %	108.023 %	96.157 %
Concentration RSD	0.8 %	0.3 %	1.5 %	1.6 %	**5.4 %**	4.2 %	4.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1088 ppm	0.0107 ppm	0.0498 ppm	2.1331 ppm	0.0203 ppm	0.0105 ppm	0.0492 ppm
Concentration per Run 1	0.1089 ppm	0.0110 ppm	0.0499 ppm	2.2139 ppm	0.0202 ppm	0.0103 ppm	0.0499 ppm
Concentration per Run 2	0.1093 ppm	0.0110 ppm	0.0494 ppm	2.1354 ppm	0.0202 ppm	0.0104 ppm	0.0483 ppm
Concentration per Run 3	0.1082 ppm	0.0102 ppm	0.0500 ppm	2.0500 ppm	0.0204 ppm	0.0107 ppm	0.0495 ppm
Recovery Percentage 1	108.821 %	107.129 %	99.523 %	106.656 %	101.323 %	104.693 %	98.436 %
Concentration RSD	0.5 %	4.1 %	0.6 %	3.8 %	0.6 %	1.8 %	1.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0086 ppm	0.5293 ppm	0.0515 ppm	0.0104 ppm	0.0101 ppm	0.0194 ppm	0.0103 ppm
Concentration per Run 1	0.0077 ppm	0.5295 ppm	0.0517 ppm	0.0107 ppm	0.0100 ppm	0.0194 ppm	0.0103 ppm
Concentration per Run 2	0.0098 ppm	0.5298 ppm	0.0516 ppm	0.0102 ppm	0.0102 ppm	0.0187 ppm	0.0102 ppm
Concentration per Run 3	0.0085 ppm	0.5287 ppm	0.0512 ppm	0.0101 ppm	0.0102 ppm	0.0200 ppm	0.0103 ppm
Recovery Percentage 1	86.448 %	105.866 %	103.040 %	103.542 %	101.305 %	96.751 %	102.854 %
Concentration RSD	12.0 %	0.1 %	0.5 %	3.3 %	0.9 %	3.5 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0058 ppm	93.9776 %	98.5448 %	99.9531 %	93.7961 %	99.2202 %	100.1342 %
Concentration per Run 1	0.0059 ppm	91.2225 %	98.7773 %	100.0724 %	90.2829 %	99.1032 %	100.1834 %
Concentration per Run 2	0.0059 ppm	93.5810 %	98.2782 %	99.9332 %	94.0190 %	99.2865 %	100.1775 %
Concentration per Run 3	0.0058 ppm	97.1292 %	98.5788 %	99.8537 %	97.0863 %	99.2708 %	100.0417 %
Recovery Percentage 1	116.797 %						
Concentration RSD	0.5 %	3.2 %	0.3 %	0.1 %	3.6 %	0.1 %	0.1 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: ICSA
Analysis started at: 3/6/2025 9:11:10 PM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0020 ppm	504.5368 [SIC 500]	-0.0009 ppm	-0.0117 ppm	0.0012 ppm	0.0000 ppm	465.0334 ppm
Concentration per Run 1	0.0023 ppm	505.7367 ppm	-0.0031 ppm	-0.0120 ppm	0.0013 ppm	-0.0001 ppm	472.2332 ppm
Concentration per Run 2	0.0018 ppm	502.8911 ppm	0.0027 ppm	-0.0110 ppm	0.0013 ppm	-0.0001 ppm	459.3209 ppm
Concentration per Run 3	0.0020 ppm	504.9827 ppm	-0.0022 ppm	-0.0120 ppm	0.0011 ppm	0.0000 ppm	463.5463 ppm
Recovery Percentage 1	29.008 %	504,536.823 %	-17.164 %	-38.861 %	12.348 %	-0.938 %	465,033.447 %
Concentration RSD	11.3 %	0.3 %	367.3 %	5.2 %	10.7 %	71.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0066 ppm	-0.0002 ppm	-0.0017 ppm	0.0027 ppm	182.6092 ppm	-0.0035 ppm	-0.0026 ppm
Concentration per Run 1	-0.0065 ppm	0.0000 ppm	-0.0017 ppm	0.0028 ppm	183.5074 ppm	-0.0068 ppm	-0.0024 ppm
Concentration per Run 2	-0.0066 ppm	-0.0001 ppm	-0.0018 ppm	0.0028 ppm	181.8586 ppm	-0.0266 ppm	-0.0017 ppm
Concentration per Run 3	-0.0068 ppm	-0.0004 ppm	-0.0017 ppm	0.0027 ppm	182.4616 ppm	0.0229 ppm	-0.0038 ppm
Recovery Percentage 1	-165.624 %	-0.865 %	-17.259 %	27.381 %	365,218.435 %	-0.140 %	-26.307 %
Concentration RSD	2.2 %	103.2 %	3.4 %	2.3 %	0.5 %	710.9 %	39.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	475.5067 ppm	0.0002 ppm	-0.0013 ppm	0.0739 ppm	-0.0012 ppm	-0.0132 ppm	0.0072 ppm
Concentration per Run 1	476.8810 ppm	0.0008 ppm	-0.0016 ppm	0.0756 ppm	-0.0011 ppm	-0.0140 ppm	0.0076 ppm
Concentration per Run 2	474.5392 ppm	-0.0001 ppm	-0.0011 ppm	0.0691 ppm	-0.0014 ppm	-0.0125 ppm	0.0079 ppm
Concentration per Run 3	475.0998 ppm	0.0001 ppm	-0.0013 ppm	0.0771 ppm	-0.0009 ppm	-0.0132 ppm	0.0062 ppm
Recovery Percentage 1	475,506.677 %	2.478 %	-2.694 %	3.696 %	-4.674 %	-132.438 %	14.473 %
Concentration RSD	0.3 %	185.9 %	19.6 %	5.8 %	21.8 %	5.6 %	12.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0124 ppm	-0.0074 ppm	0.0024 ppm	0.0054 ppm	-0.0013 ppm	0.0042 ppm	0.0009 ppm
Concentration per Run 1	-0.0080 ppm	-0.0092 ppm	0.0022 ppm	0.0056 ppm	-0.0012 ppm	0.0054 ppm	0.0013 ppm
Concentration per Run 2	-0.0115 ppm	-0.0052 ppm	0.0024 ppm	0.0053 ppm	-0.0015 ppm	0.0040 ppm	0.0007 ppm
Concentration per Run 3	-0.0177 ppm	-0.0079 ppm	0.0026 ppm	0.0054 ppm	-0.0011 ppm	0.0032 ppm	0.0008 ppm
Recovery Percentage 1	-123.721 %	-1.486 %	4.793 %	54.244 %	-12.844 %	21.149 %	9.089 %
Concentration RSD	39.7 %	27.5 %	8.0 %	2.7 %	16.1 %	26.5 %	34.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	93.1295 %	85.4372 %	87.6012 %	93.0653 %	75.5027 %	87.5879 %
Concentration per Run 1	0.0004 ppm	92.6718 %	85.5169 %	87.5321 %	92.2987 %	75.5395 %	87.4172 %
Concentration per Run 2	0.0005 ppm	93.0564 %	85.3941 %	87.7000 %	93.4225 %	75.5092 %	87.6902 %
Concentration per Run 3	0.0004 ppm	93.6603 %	85.4006 %	87.5714 %	93.4745 %	75.4596 %	87.6564 %
Recovery Percentage 1	8.662 %						
Concentration RSD	16.9 %	0.5 %	0.1 %	0.1 %	0.7 %	0.1 %	0.2 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: SIC Multi
Analysis started at: 3/6/2025 9:18:00 PM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0204 ppm	-0.0037 ppm	0.0008 ppm	0.0001 ppm	-0.0050 ppm	0.0220 ppm
Concentration per Run 1	0.0004 ppm	0.0231 ppm	-0.0033 ppm	0.0007 ppm	0.0002 ppm	-0.0047 ppm	0.0215 ppm
Concentration per Run 2	0.0003 ppm	0.0168 ppm	-0.0046 ppm	0.0012 ppm	0.0002 ppm	-0.0051 ppm	0.0224 ppm
Concentration per Run 3	0.0004 ppm	0.0213 ppm	-0.0032 ppm	0.0006 ppm	0.0000 ppm	-0.0051 ppm	0.0222 ppm
Recovery Percentage 1	5.541 %	20.380 %	-73.945 %	2.830 %	0.939 %	-99.615 %	22.026 %
Concentration RSD	12.9 %	15.9 %	20.3 %	38.4 %	110.0 %	5.2 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0019 ppm	0.0090 ppm	**19.7772 ppm**	-0.0009 ppm	0.0097 ppm	-0.0109 ppm	-0.0005 ppm
Concentration per Run 1	0.0019 ppm	0.0091 ppm	19.9425 ppm	-0.0010 ppm	0.0099 ppm	0.0041 ppm	0.0001 ppm
Concentration per Run 2	0.0019 ppm	0.0091 ppm	19.8270 ppm	-0.0009 ppm	0.0102 ppm	-0.0356 ppm	-0.0004 ppm
Concentration per Run 3	0.0019 ppm	0.0088 ppm	19.5621 ppm	-0.0008 ppm	0.0089 ppm	-0.0012 ppm	-0.0012 ppm
Recovery Percentage 1	47.351 %	45.077 %	197,771.938 %	-8.815 %	19.345 %	-0.437 %	-4.879 %
Concentration RSD	1.5 %	1.9 %	**1.0 %**	10.5 %	7.3 %	197.6 %	133.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0716 ppm	**19.2125 ppm**	0.0035 ppm	0.0296 ppm	0.0009 ppm	0.0034 ppm	-0.0148 ppm
Concentration per Run 1	-0.0713 ppm	18.5450 ppm	0.0034 ppm	0.0345 ppm	0.0008 ppm	0.0031 ppm	-0.0133 ppm
Concentration per Run 2	-0.0721 ppm	19.5013 ppm	0.0035 ppm	0.0275 ppm	0.0009 ppm	0.0033 ppm	-0.0161 ppm
Concentration per Run 3	-0.0715 ppm	19.5914 ppm	0.0035 ppm	0.0268 ppm	0.0010 ppm	0.0037 ppm	-0.0150 ppm
Recovery Percentage 1	-71.626 %	192,125.410 %	6.980 %	1.480 %	3.475 %	33.764 %	-29.610 %
Concentration RSD	0.6 %	**3.0 %**	1.2 %	14.3 %	12.4 %	10.2 %	9.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0072 ppm	-0.0556 ppm	-0.0016 ppm	0.0001 ppm	**19.0007 ppm**	-0.0019 ppm	**9.7476 ppm**
Concentration per Run 1	-0.0069 ppm	-0.0550 ppm	-0.0014 ppm	0.0002 ppm	19.2054 ppm	-0.0010 ppm	9.8781 ppm
Concentration per Run 2	-0.0083 ppm	-0.0546 ppm	-0.0014 ppm	0.0000 ppm	18.9877 ppm	-0.0017 ppm	9.7224 ppm
Concentration per Run 3	-0.0065 ppm	-0.0571 ppm	-0.0019 ppm	0.0002 ppm	18.8089 ppm	-0.0029 ppm	9.6423 ppm
Recovery Percentage 1	-71.948 %	-11.110 %	-3.178 %	1.174 %	190,006.749 %	-9.303 %	97,476.220 %
Concentration RSD	13.1 %	2.4 %	17.3 %	84.9 %	**1.0 %**	51.5 %	**1.2 %**

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	101.3549 %	98.7650 %	100.5690 %	101.4319 %	98.7899 %	101.3490 %
Concentration per Run 1	0.0005 ppm	104.0961 %	99.0452 %	100.3149 %	104.2103 %	98.7601 %	100.3672 %
Concentration per Run 2	0.0004 ppm	100.0568 %	98.5035 %	100.3974 %	100.1129 %	98.4847 %	101.1020 %
Concentration per Run 3	0.0005 ppm	99.9119 %	98.7464 %	100.9946 %	99.9725 %	99.1249 %	102.5777 %
Recovery Percentage 1	9.355 %						
Concentration RSD	8.3 %	2.3 %	0.3 %	0.4 %	2.4 %	0.3 %	1.1 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: LDR Check
Analysis started at: 3/6/2025 9:25:03 PM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0033 ppm	0.0467 ppm	24.4671 ppm	18.9244 ppm	18.4895 ppm	4.8130 ppm	0.0100 ppm
Concentration per Run 1	0.0033 ppm	0.0330 ppm	24.4470 ppm	18.9382 ppm	18.3728 ppm	4.7880 ppm	0.0088 ppm
Concentration per Run 2	0.0034 ppm	0.0447 ppm	24.4499 ppm	18.9493 ppm	18.5736 ppm	4.7879 ppm	0.0121 ppm
Concentration per Run 3	0.0033 ppm	0.0624 ppm	24.5043 ppm	18.8857 ppm	18.5220 ppm	4.8631 ppm	0.0092 ppm
Recovery Percentage 1	0.000 %	0.000 %	122.335 %	94.622 %	92.447 %	96.260 %	0.000 %
Concentration RSD	1.5 %	31.7 %	0.1 %	0.2 %	0.6 %	0.9 %	17.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9541 ppm	4.8542 ppm	0.0014 ppm	19.6647 ppm	0.0053 ppm	502.6350 ppm	19.1677 ppm
Concentration per Run 1	4.9471 ppm	4.8526 ppm	0.0016 ppm	19.5967 ppm	0.0077 ppm	495.7125 ppm	19.1613 ppm
Concentration per Run 2	4.9624 ppm	4.8615 ppm	0.0013 ppm	19.7549 ppm	0.0043 ppm	503.8537 ppm	19.1381 ppm
Concentration per Run 3	4.9527 ppm	4.8486 ppm	0.0014 ppm	19.6424 ppm	0.0039 ppm	508.3387 ppm	19.2037 ppm
Recovery Percentage 1	99.081 %	97.085 %	0.000 %	98.323 %	0.000 %	100.527 %	95.839 %
Concentration RSD	0.2 %	0.1 %	12.6 %	0.4 %	39.7 %	1.3 %	0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0286 ppm	0.0015 ppm	5.0364 [SIC 20]	401.7812 ppm	9.4516 ppm	48.5509 ppm	5.2262 ppm
Concentration per Run 1	-0.0266 ppm	0.0018 ppm	5.0273 ppm	411.6182 ppm	9.4492 ppm	48.4859 ppm	5.2329 ppm
Concentration per Run 2	-0.0320 ppm	0.0015 ppm	5.0464 ppm	400.0010 ppm	9.4677 ppm	48.6117 ppm	5.2253 ppm
Concentration per Run 3	-0.0273 ppm	0.0010 ppm	5.0356 ppm	393.7245 ppm	9.4379 ppm	48.5551 ppm	5.2205 ppm
Recovery Percentage 1	0.000 %	0.000 %	100.728 %	80.356 %	94.516 %	97.102 %	104.524 %
Concentration RSD	10.2 %	27.6 %	0.2 %	2.3 %	0.2 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	5.0567 [SIC 20]	21.7585 [SIC 100]	9.3858 ppm	4.7604 ppm	0.0068 ppm	4.5839 ppm	0.0157 ppm
Concentration per Run 1	5.0689 ppm	21.7913 ppm	9.3855 ppm	4.7771 ppm	0.0069 ppm	4.5788 ppm	0.0157 ppm
Concentration per Run 2	5.0575 ppm	21.7889 ppm	9.3968 ppm	4.6991 ppm	0.0072 ppm	4.5941 ppm	0.0159 ppm
Concentration per Run 3	5.0437 ppm	21.6954 ppm	9.3752 ppm	4.8050 ppm	0.0063 ppm	4.5788 ppm	0.0155 ppm
Recovery Percentage 1	101.134 %	108.793 %	93.858 %	95.208 %	0.000 %	91.678 %	0.000 %
Concentration RSD	0.2 %	0.3 %	0.1 %	1.2 %	6.0 %	0.2 %	1.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	20.2026 [SIC 50]	95.7253 %	87.2522 %	75.6218 %	96.3977 %	85.5661 %	89.7389 %
Concentration per Run 1	20.1647 ppm	95.4739 %	87.8941 %	75.8057 %	96.2908 %	85.7119 %	90.2435 %
Concentration per Run 2	20.2389 ppm	95.8608 %	85.8326 %	75.6620 %	96.7257 %	85.4591 %	88.4788 %
Concentration per Run 3	20.2042 ppm	95.8411 %	88.0298 %	75.3977 %	96.1765 %	85.5274 %	90.4945 %
Recovery Percentage 1	101.013 %						
Concentration RSD	0.2 %	0.2 %	1.4 %	0.3 %	0.3 %	0.2 %	1.2 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/6/2025 9:32:41 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4900 ppm	0.4870 ppm	0.4852 ppm	0.4929 ppm	0.4696 ppm	0.4914 ppm	0.5007 ppm
Concentration per Run 1	0.4936 ppm	0.4744 ppm	0.4876 ppm	0.4933 ppm	0.4542 ppm	0.4784 ppm	0.4903 ppm
Concentration per Run 2	0.4842 ppm	0.4904 ppm	0.4842 ppm	0.4949 ppm	0.4756 ppm	0.4971 ppm	0.5016 ppm
Concentration per Run 3	0.4923 ppm	0.4964 ppm	0.4837 ppm	0.4906 ppm	0.4790 ppm	0.4987 ppm	0.5102 ppm
Recovery Percentage 1	98.006 %	97.406 %	97.032 %	98.587 %	93.918 %	98.281 %	100.140 %
Concentration RSD	1.0 %	2.3 %	0.4 %	0.4 %	2.9 %	2.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4822 ppm	0.4933 ppm	0.4900 ppm	0.4827 ppm	0.5093 ppm	5.1320 ppm	0.4763 ppm
Concentration per Run 1	0.4813 ppm	0.4930 ppm	0.4939 ppm	0.4866 ppm	0.4945 ppm	5.0276 ppm	0.4650 ppm
Concentration per Run 2	0.4835 ppm	0.4942 ppm	0.4843 ppm	0.4771 ppm	0.5153 ppm	5.1891 ppm	0.4819 ppm
Concentration per Run 3	0.4817 ppm	0.4927 ppm	0.4919 ppm	0.4844 ppm	0.5181 ppm	5.1792 ppm	0.4820 ppm
Recovery Percentage 1	96.434 %	98.666 %	98.008 %	96.542 %	101.863 %	102.639 %	95.262 %
Concentration RSD	0.3 %	0.2 %	1.0 %	1.0 %	2.5 %	1.8 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4958 ppm	0.4780 ppm	0.4837 ppm	9.3585 ppm	0.4935 ppm	0.4949 ppm	0.4921 ppm
Concentration per Run 1	0.5012 ppm	0.4658 ppm	0.4819 ppm	9.1550 ppm	0.4927 ppm	0.4950 ppm	0.4923 ppm
Concentration per Run 2	0.4900 ppm	0.4830 ppm	0.4854 ppm	9.4549 ppm	0.4947 ppm	0.4962 ppm	0.4924 ppm
Concentration per Run 3	0.4960 ppm	0.4854 ppm	0.4839 ppm	9.4657 ppm	0.4931 ppm	0.4933 ppm	0.4914 ppm
Recovery Percentage 1	99.151 %	95.609 %	96.743 %	93.585 %	98.700 %	98.970 %	98.412 %
Concentration RSD	1.1 %	2.2 %	0.4 %	1.9 %	0.2 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4845 ppm	5.3596 ppm	0.4935 ppm	0.4713 ppm	0.4908 ppm	0.5237 ppm	0.4837 ppm
Concentration per Run 1	0.4832 ppm	5.3593 ppm	0.4936 ppm	0.4597 ppm	0.4943 ppm	0.5248 ppm	0.4877 ppm
Concentration per Run 2	0.4862 ppm	5.3741 ppm	0.4939 ppm	0.4761 ppm	0.4866 ppm	0.5231 ppm	0.4782 ppm
Concentration per Run 3	0.4842 ppm	5.3456 ppm	0.4928 ppm	0.4780 ppm	0.4915 ppm	0.5232 ppm	0.4853 ppm
Recovery Percentage 1	96.908 %	102.088 %	98.691 %	94.255 %	98.158 %	104.739 %	96.743 %
Concentration RSD	0.3 %	0.3 %	0.1 %	2.1 %	0.8 %	0.2 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4884 ppm	101.4685 %	100.1844 %	101.1538 %	101.8965 %	100.1540 %	102.2421 %
Concentration per Run 1	0.4872 ppm	103.7962 %	100.0226 %	101.1820 %	103.6706 %	100.3872 %	101.6122 %
Concentration per Run 2	0.4902 ppm	100.5243 %	100.2526 %	101.0567 %	101.1324 %	99.8674 %	103.4261 %
Concentration per Run 3	0.4878 ppm	100.0851 %	100.2781 %	101.2228 %	100.8866 %	100.2074 %	101.6879 %
Recovery Percentage 1	97.685 %						
Concentration RSD	0.3 %	2.0 %	0.1 %	0.1 %	1.5 %	0.3 %	1.0 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/6/2025 9:39:19 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0018 ppm	0.0120 ppm	0.0000 ppm	0.0001 ppm	-0.0023 ppm
Concentration per Run 1	0.0002 ppm	0.0032 ppm	0.0007 ppm	0.0123 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.0002 ppm	0.0040 ppm	0.0028 ppm	0.0120 ppm	0.0001 ppm	0.0001 ppm	-0.0099 ppm
Concentration per Run 3	0.0002 ppm	-0.0070 ppm	0.0020 ppm	0.0116 ppm	0.0000 ppm	0.0001 ppm	0.0022 ppm
Recovery Percentage 1	2.920 %	0.077 %	36.778 %	39.887 %	0.278 %	2.211 %	-2.310 %
Concentration RSD	8.7 %	7,959.5 %	57.1 %	3.2 %	210.9 %	40.3 %	287.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0007 ppm	0.0441 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0338 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0008 ppm	0.0599 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	-0.0020 ppm	0.0385 ppm	0.0007 ppm
Recovery Percentage 1	0.780 %	-0.227 %	1.837 %	-2.445 %	-1.366 %	1.762 %	10.789 %
Concentration RSD	73.2 %	132.2 %	28.2 %	32.8 %	205.5 %	31.7 %	73.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0012 ppm	0.0002 ppm	0.0015 ppm	0.0470 ppm	0.0004 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	-0.0012 ppm	0.0003 ppm	0.0016 ppm	0.0504 ppm	0.0004 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 2	0.0034 ppm	0.0003 ppm	0.0015 ppm	0.0463 ppm	0.0002 ppm	0.0007 ppm	0.0013 ppm
Concentration per Run 3	0.0012 ppm	0.0002 ppm	0.0013 ppm	0.0443 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	1.153 %	2.281 %	2.979 %	2.350 %	1.654 %	2.551 %	0.592 %
Concentration RSD	196.7 %	24.9 %	9.4 %	6.6 %	43.2 %	196.7 %	293.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	-0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0025 ppm	0.0001 ppm
Concentration per Run 1	0.0018 ppm	-0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0035 ppm	-0.0001 ppm
Concentration per Run 2	0.0005 ppm	-0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0020 ppm	0.0004 ppm
Concentration per Run 3	0.0014 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0020 ppm	-0.0001 ppm
Recovery Percentage 1	12.276 %	-0.153 %	0.713 %	0.441 %	2.754 %	12.647 %	0.911 %
Concentration RSD	51.6 %	52.1 %	80.0 %	51.8 %	4.9 %	33.4 %	325.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	102.3326 %	100.6165 %	101.4443 %	100.5699 %	101.2025 %	100.8527 %
Concentration per Run 1	0.0001 ppm	104.3964 %	100.4737 %	101.4440 %	102.4249 %	101.3015 %	100.6395 %
Concentration per Run 2	0.0001 ppm	101.8842 %	100.6678 %	101.6921 %	100.0261 %	101.5784 %	101.3567 %
Concentration per Run 3	0.0001 ppm	100.7172 %	100.7079 %	101.1967 %	99.2587 %	100.7274 %	100.5620 %
Recovery Percentage 1	1.804 %						
Concentration RSD	47.4 %	1.8 %	0.1 %	0.2 %	1.6 %	0.4 %	0.4 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 9:25:27 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4915 ppm	0.4915 ppm	0.4712 ppm	0.4732 ppm	0.4984 ppm	0.4711 ppm	0.5028 ppm
Concentration per Run 1	0.4897 ppm	0.4971 ppm	0.4703 ppm	0.4732 ppm	0.4993 ppm	0.4717 ppm	0.5016 ppm
Concentration per Run 2	0.4939 ppm	0.4906 ppm	0.4727 ppm	0.4730 ppm	0.4968 ppm	0.4722 ppm	0.5034 ppm
Concentration per Run 3	0.4908 ppm	0.4866 ppm	0.4705 ppm	0.4734 ppm	0.4993 ppm	0.4695 ppm	0.5034 ppm
Recovery Percentage 1	98.297 %	98.291 %	94.234 %	94.635 %	99.689 %	94.229 %	100.560 %
Concentration RSD	0.4 %	1.1 %	0.3 %	0.0 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4775 ppm	0.4823 ppm	0.4873 ppm	0.4758 ppm	0.4981 ppm	5.1405 ppm	0.4569 ppm
Concentration per Run 1	0.4775 ppm	0.4823 ppm	0.4849 ppm	0.4736 ppm	0.4964 ppm	5.1302 ppm	0.4579 ppm
Concentration per Run 2	0.4765 ppm	0.4816 ppm	0.4895 ppm	0.4780 ppm	0.4987 ppm	5.1608 ppm	0.4589 ppm
Concentration per Run 3	0.4784 ppm	0.4829 ppm	0.4875 ppm	0.4757 ppm	0.4991 ppm	5.1306 ppm	0.4540 ppm
Recovery Percentage 1	95.496 %	96.457 %	97.463 %	95.157 %	99.612 %	102.811 %	91.386 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.5 %	0.3 %	0.3 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5254 ppm	0.4795 ppm	0.4597 ppm	9.6538 ppm	0.5031 ppm	0.4687 ppm	0.4881 ppm
Concentration per Run 1	0.5230 ppm	0.4806 ppm	0.4580 ppm	9.6764 ppm	0.5035 ppm	0.4695 ppm	0.4874 ppm
Concentration per Run 2	0.5246 ppm	0.4812 ppm	0.4594 ppm	9.6968 ppm	0.5025 ppm	0.4670 ppm	0.4898 ppm
Concentration per Run 3	0.5285 ppm	0.4767 ppm	0.4617 ppm	9.5883 ppm	0.5034 ppm	0.4697 ppm	0.4871 ppm
Recovery Percentage 1	105.072 %	95.897 %	91.944 %	96.538 %	100.624 %	93.748 %	97.617 %
Concentration RSD	0.5 %	0.5 %	0.4 %	0.6 %	0.1 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4655 ppm	5.4628 ppm	0.4784 ppm	0.4671 ppm	0.5012 ppm	0.5051 ppm	0.4908 ppm
Concentration per Run 1	0.4665 ppm	5.4710 ppm	0.4786 ppm	0.4671 ppm	0.5012 ppm	0.5056 ppm	0.4895 ppm
Concentration per Run 2	0.4648 ppm	5.4515 ppm	0.4778 ppm	0.4692 ppm	0.5025 ppm	0.5031 ppm	0.4931 ppm
Concentration per Run 3	0.4652 ppm	5.4659 ppm	0.4787 ppm	0.4650 ppm	0.4999 ppm	0.5066 ppm	0.4898 ppm
Recovery Percentage 1	93.100 %	104.053 %	95.676 %	93.422 %	100.238 %	101.019 %	98.158 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.4 %	0.3 %	0.4 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4934 ppm	95.2889 %	106.1161 %	100.6018 %	100.6976 %	103.4324 %	104.3382 %
Concentration per Run 1	0.4935 ppm	94.7537 %	105.8145 %	100.6443 %	100.2615 %	103.5089 %	104.5084 %
Concentration per Run 2	0.4927 ppm	95.5981 %	105.8859 %	100.4785 %	100.5320 %	103.5261 %	104.0244 %
Concentration per Run 3	0.4939 ppm	95.5148 %	106.6478 %	100.6827 %	101.2992 %	103.2623 %	104.4818 %
Recovery Percentage 1	98.674 %						
Concentration RSD	0.1 %	0.5 %	0.4 %	0.1 %	0.5 %	0.1 %	0.3 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 9:31:40 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0021 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0001 ppm	0.0022 ppm	0.0008 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 2	0.0003 ppm	0.0106 ppm	-0.0013 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 3	0.0001 ppm	-0.0064 ppm	-0.0007 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0019 ppm
Recovery Percentage 1	2.629 %	2.131 %	-7.515 %	-1.161 %	-1.421 %	0.539 %	3.692 %
Concentration RSD	70.0 %	399.9 %	293.1 %	61.6 %	14.0 %	61.4 %	63.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0011 ppm	-0.0058 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0023 ppm	-0.0172 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0022 ppm	0.0181 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0012 ppm	-0.0183 ppm	0.0006 ppm
Recovery Percentage 1	1.074 %	0.338 %	0.055 %	3.451 %	-2.162 %	-0.233 %	6.125 %
Concentration RSD	8.0 %	124.2 %	3,107.3 %	27.1 %	185.4 %	356.0 %	188.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0020 ppm	0.0001 ppm	0.0004 ppm	0.0061 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0025 ppm	0.0001 ppm	0.0006 ppm	0.0070 ppm	0.0005 ppm	0.0009 ppm	-0.0006 ppm
Concentration per Run 2	0.0034 ppm	-0.0001 ppm	0.0003 ppm	0.0062 ppm	0.0005 ppm	0.0004 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0050 ppm	0.0001 ppm	0.0004 ppm	-0.0008 ppm
Recovery Percentage 1	2.030 %	0.630 %	0.841 %	0.305 %	1.385 %	5.588 %	-0.224 %
Concentration RSD	83.7 %	202.3 %	32.3 %	16.2 %	73.6 %	49.3 %	908.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	-0.0014 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0017 ppm	0.0002 ppm
Recovery Percentage 1	-3.953 %	-0.111 %	0.426 %	-0.268 %	0.722 %	-4.827 %	0.863 %
Concentration RSD	148.1 %	145.1 %	83.5 %	101.5 %	263.8 %	64.4 %	112.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	97.7986 %	106.5088 %	101.6572 %	100.3386 %	104.8412 %	102.3191 %
Concentration per Run 1	0.0003 ppm	98.3204 %	106.4151 %	102.1572 %	101.1352 %	105.3105 %	101.5896 %
Concentration per Run 2	0.0001 ppm	97.5376 %	106.2005 %	101.4402 %	99.9297 %	104.7199 %	102.5310 %
Concentration per Run 3	0.0002 ppm	97.5380 %	106.9107 %	101.3741 %	99.9508 %	104.4932 %	102.8366 %
Recovery Percentage 1	3.821 %						
Concentration RSD	34.4 %	0.5 %	0.3 %	0.4 %	0.7 %	0.4 %	0.6 %

LabBook: WG2037545_03072025T5.imexp

Sample: LDR 200 Na pass
Analysis started at: 3/7/2025 9:55:43 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0034 ppm	-0.0005 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 1	-0.0002 ppm	0.0012 ppm	0.0008 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0082 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 3	0.0000 ppm	0.0088 ppm	-0.0021 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0037 ppm
Concentration RSD	94.1 %	138.5 %	288.6 %	43.7 %	53.0 %	187.0 %	40.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0018 ppm	0.0452 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	-0.0011 ppm	0.0583 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0031 ppm	0.0509 ppm	0.0034 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0012 ppm	0.0263 ppm	0.0038 ppm
Concentration RSD	84.2 %	60.8 %	108.7 %	50.0 %	63.5 %	37.1 %	28.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	-0.0002 ppm	-0.0003 ppm	182.5799 ppm	0.0000 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	-0.0003 ppm	182.8443 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 2	0.0040 ppm	-0.0004 ppm	-0.0001 ppm	182.5377 ppm	0.0002 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 3	-0.0018 ppm	-0.0001 ppm	-0.0004 ppm	182.3578 ppm	0.0002 ppm	0.0003 ppm	-0.0007 ppm
Concentration RSD	311.3 %	89.9 %	60.9 %	0.1 %	8,675.4 %	55.9 %	37.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	-0.0019 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0012 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0010 ppm	0.0001 ppm
Concentration RSD	124.6 %	202.3 %	140.4 %	495.7 %	24.5 %	109.5 %	62.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	95.1594 %	100.2830 %	95.8584 %	100.0039 %	95.9480 %	98.6301 %
Concentration per Run 1	0.0002 ppm	97.2887 %	100.2774 %	96.0585 %	101.1847 %	96.3751 %	98.4533 %
Concentration per Run 2	0.0001 ppm	94.7171 %	100.3734 %	95.6452 %	100.1046 %	95.5067 %	98.7214 %
Concentration per Run 3	0.0001 ppm	93.4724 %	100.1984 %	95.8716 %	98.7224 %	95.9624 %	98.7156 %
Concentration RSD	34.1 %	2.0 %	0.1 %	0.2 %	1.2 %	0.5 %	0.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: zLDR 100 Na
Analysis started at: 3/7/2025 10:02:17 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0048 ppm	0.0005 ppm	-0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	0.0003 ppm	-0.0033 ppm	0.0005 ppm	-0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 2	-0.0002 ppm	0.0052 ppm	0.0002 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 3	0.0003 ppm	0.0124 ppm	0.0007 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0082 ppm
Concentration RSD	222.0 %	164.6 %	62.0 %	29.4 %	129.6 %	135.9 %	33.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0005 ppm	0.0698 ppm	0.0042 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0751 ppm	0.0053 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0783 ppm	0.0028 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0013 ppm	0.0560 ppm	0.0045 ppm
Concentration RSD	105.4 %	25.4 %	191.8 %	59.3 %	144.5 %	17.3 %	30.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0025 ppm	0.0001 ppm	-0.0003 ppm	94.7749 ppm	0.0002 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 1	0.0007 ppm	-0.0001 ppm	-0.0003 ppm	94.8345 ppm	0.0004 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0034 ppm	-0.0001 ppm	-0.0001 ppm	95.2075 ppm	0.0002 ppm	0.0005 ppm	-0.0024 ppm
Concentration per Run 3	0.0035 ppm	0.0004 ppm	-0.0005 ppm	94.2826 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration RSD	61.1 %	271.8 %	63.9 %	0.5 %	99.9 %	46.3 %	183.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0022 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	-0.0022 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm
Concentration RSD	241.5 %	104.5 %	345.6 %	28.9 %	236.6 %	30.4 %	351.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	94.8471 %	102.3315 %	97.8815 %	97.7208 %	99.2254 %	101.1658 %
Concentration per Run 1	0.0001 ppm	96.1968 %	103.2969 %	97.2660 %	98.0891 %	98.5975 %	101.9268 %
Concentration per Run 2	0.0001 ppm	94.2325 %	102.0750 %	98.2128 %	97.0803 %	99.7885 %	101.2819 %
Concentration per Run 3	0.0001 ppm	94.1121 %	101.6225 %	98.1657 %	97.9931 %	99.2904 %	100.2887 %
Concentration RSD	23.7 %	1.2 %	0.8 %	0.5 %	0.6 %	0.6 %	0.8 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: LLOQ 0.05ppm Ca Fe pass
Analysis started at: 3/7/2025 10:08:40 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0520 ppm	0.0510 ppm	0.0482 ppm	0.0469 ppm	0.0493 ppm	0.0483 ppm	0.0576 ppm
Concentration per Run 1	0.0520 ppm	0.0521 ppm	0.0492 ppm	0.0471 ppm	0.0490 ppm	0.0480 ppm	0.0583 ppm
Concentration per Run 2	0.0523 ppm	0.0584 ppm	0.0466 ppm	0.0467 ppm	0.0495 ppm	0.0481 ppm	0.0598 ppm
Concentration per Run 3	0.0516 ppm	0.0426 ppm	0.0489 ppm	0.0470 ppm	0.0495 ppm	0.0487 ppm	0.0548 ppm
Recovery Percentage 1	0.000 %	102.061 %	0.000 %	0.000 %	0.000 %	0.000 %	115.220 %
Concentration RSD	0.7 %	15.6 %	2.9 %	0.3 %	0.6 %	0.7 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0489 ppm	0.0491 ppm	0.0509 ppm	0.0495 ppm	0.0503 ppm	0.5294 ppm	0.0479 ppm
Concentration per Run 1	0.0490 ppm	0.0493 ppm	0.0508 ppm	0.0496 ppm	0.0499 ppm	0.5439 ppm	0.0478 ppm
Concentration per Run 2	0.0489 ppm	0.0491 ppm	0.0510 ppm	0.0495 ppm	0.0497 ppm	0.5140 ppm	0.0479 ppm
Concentration per Run 3	0.0489 ppm	0.0489 ppm	0.0509 ppm	0.0495 ppm	0.0512 ppm	0.5303 ppm	0.0479 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	100.564 %	21.177 %	0.000 %
Concentration RSD	0.2 %	0.4 %	0.2 %	0.2 %	1.6 %	2.8 %	0.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0557 ppm	0.0498 ppm	0.0461 ppm	1.0108 ppm	0.0514 ppm	0.0486 ppm	0.0491 ppm
Concentration per Run 1	0.0544 ppm	0.0498 ppm	0.0462 ppm	1.0170 ppm	0.0515 ppm	0.0491 ppm	0.0486 ppm
Concentration per Run 2	0.0580 ppm	0.0496 ppm	0.0459 ppm	1.0024 ppm	0.0512 ppm	0.0486 ppm	0.0496 ppm
Concentration per Run 3	0.0546 ppm	0.0500 ppm	0.0462 ppm	1.0132 ppm	0.0517 ppm	0.0482 ppm	0.0490 ppm
Recovery Percentage 1	111.334 %	0.000 %	0.000 %	101.085 %	0.000 %	0.000 %	98.169 %
Concentration RSD	3.6 %	0.4 %	0.4 %	0.8 %	0.5 %	0.8 %	1.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0471 ppm	0.5504 ppm	0.0487 ppm	0.0482 ppm	0.0516 ppm	0.0509 ppm	0.0507 ppm
Concentration per Run 1	0.0483 ppm	0.5509 ppm	0.0486 ppm	0.0478 ppm	0.0516 ppm	0.0520 ppm	0.0502 ppm
Concentration per Run 2	0.0473 ppm	0.5504 ppm	0.0488 ppm	0.0482 ppm	0.0515 ppm	0.0510 ppm	0.0510 ppm
Concentration per Run 3	0.0456 ppm	0.5500 ppm	0.0486 ppm	0.0486 ppm	0.0517 ppm	0.0499 ppm	0.0509 ppm
Recovery Percentage 1	0.000 %	110.088 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.9 %	0.1 %	0.2 %	0.9 %	0.1 %	2.1 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0505 ppm	97.8959 %	105.7980 %	101.3792 %	100.6157 %	105.0338 %	102.9846 %
Concentration per Run 1	0.0505 ppm	98.0259 %	106.6626 %	101.4792 %	100.5859 %	104.9634 %	103.5648 %
Concentration per Run 2	0.0502 ppm	98.0833 %	105.7150 %	101.5210 %	101.2874 %	105.2078 %	102.4324 %
Concentration per Run 3	0.0507 ppm	97.5784 %	105.0162 %	101.1373 %	99.9737 %	104.9303 %	102.9566 %
Recovery Percentage 1	100.938 %						
Concentration RSD	0.5 %	0.3 %	0.8 %	0.2 %	0.7 %	0.1 %	0.6 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: LLOQ 0.01ppm As pass
Analysis started at: 3/7/2025 10:15:04 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0102 ppm	0.2866 ppm	0.0083 ppm	0.0091 ppm	0.0106 ppm	0.0093 ppm	1.5934 ppm
Concentration per Run 1	0.0102 ppm	0.2840 ppm	0.0087 ppm	0.0091 ppm	0.0106 ppm	0.0093 ppm	1.5937 ppm
Concentration per Run 2	0.0103 ppm	0.2862 ppm	0.0085 ppm	0.0090 ppm	0.0105 ppm	0.0092 ppm	1.5878 ppm
Concentration per Run 3	0.0102 ppm	0.2897 ppm	0.0078 ppm	0.0091 ppm	0.0106 ppm	0.0093 ppm	1.5987 ppm
Recovery Percentage 1	0.000 %	0.000 %	83.067 %	90.763 %	105.627 %	0.000 %	0.000 %
Concentration RSD	0.6 %	1.0 %	5.8 %	0.5 %	0.8 %	0.3 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0097 ppm	0.0096 ppm	0.0102 ppm	0.0105 ppm	0.3639 ppm	0.3533 ppm	0.0091 ppm
Concentration per Run 1	0.0097 ppm	0.0097 ppm	0.0102 ppm	0.0104 ppm	0.3622 ppm	0.3458 ppm	0.0090 ppm
Concentration per Run 2	0.0096 ppm	0.0095 ppm	0.0103 ppm	0.0106 ppm	0.3649 ppm	0.3611 ppm	0.0097 ppm
Concentration per Run 3	0.0097 ppm	0.0095 ppm	0.0100 ppm	0.0104 ppm	0.3645 ppm	0.3528 ppm	0.0084 ppm
Recovery Percentage 1	0.000 %	95.582 %	101.691 %	104.807 %	0.000 %	0.000 %	90.507 %
Concentration RSD	0.3 %	0.9 %	1.2 %	1.1 %	0.4 %	2.2 %	6.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1900 ppm	**0.0126 ppm**	0.0094 ppm	0.5116 ppm	0.0106 ppm	0.0105 ppm	0.0089 ppm
Concentration per Run 1	0.1896 ppm	0.0124 ppm	0.0096 ppm	0.5105 ppm	0.0104 ppm	0.0105 ppm	0.0086 ppm
Concentration per Run 2	0.1910 ppm	0.0127 ppm	0.0093 ppm	0.5052 ppm	0.0107 ppm	0.0109 ppm	0.0087 ppm
Concentration per Run 3	0.1893 ppm	0.0128 ppm	0.0092 ppm	0.5192 ppm	0.0106 ppm	0.0101 ppm	0.0093 ppm
Recovery Percentage 1	0.000 %	126.162 %	93.647 %	0.000 %	105.854 %	104.669 %	0.000 %
Concentration RSD	0.5 %	**1.6 %**	2.0 %	1.4 %	1.4 %	4.0 %	4.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	**0.0072 ppm**	0.1025 ppm	0.0098 ppm	**0.0122 ppm**	0.0111 ppm	**0.0078 ppm**	0.0103 ppm
Concentration per Run 1	0.0078 ppm	0.1041 ppm	0.0098 ppm	0.0122 ppm	0.0111 ppm	0.0060 ppm	0.0103 ppm
Concentration per Run 2	0.0067 ppm	0.1016 ppm	0.0098 ppm	0.0120 ppm	0.0114 ppm	0.0086 ppm	0.0103 ppm
Concentration per Run 3	0.0073 ppm	0.1018 ppm	0.0099 ppm	0.0123 ppm	0.0109 ppm	0.0090 ppm	0.0102 ppm
Recovery Percentage 1	72.490 %	0.000 %	98.236 %	121.722 %	111.116 %	78.390 %	102.818 %
Concentration RSD	**7.8 %**	1.4 %	0.5 %	**1.3 %**	2.1 %	**21.0 %**	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0112 ppm	96.5787 %	106.3023 %	101.1291 %	99.9879 %	102.3994 %	103.2367 %
Concentration per Run 1	0.0113 ppm	96.4994 %	106.1420 %	100.5995 %	100.0081 %	101.9090 %	103.4974 %
Concentration per Run 2	0.0112 ppm	96.2264 %	106.7900 %	101.3311 %	99.8418 %	102.6905 %	103.2016 %
Concentration per Run 3	0.0112 ppm	97.0104 %	105.9748 %	101.4565 %	100.1139 %	102.5986 %	103.0111 %
Recovery Percentage 1	112.160 %						
Concentration RSD	0.5 %	0.4 %	0.4 %	0.5 %	0.1 %	0.4 %	0.2 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: zLLOQ 0.005ppm
Analysis started at: 3/7/2025 10:21:29 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0057 ppm	**0.0070 ppm**	**0.0038 ppm**	0.0040 ppm	0.0050 ppm	0.0049 ppm	0.0083 ppm
Concentration per Run 1	0.0055 ppm	0.0098 ppm	0.0040 ppm	0.0042 ppm	0.0051 ppm	0.0050 ppm	0.0086 ppm
Concentration per Run 2	0.0060 ppm	0.0040 ppm	0.0034 ppm	0.0038 ppm	0.0047 ppm	0.0049 ppm	0.0085 ppm
Concentration per Run 3	0.0056 ppm	0.0072 ppm	0.0040 ppm	0.0040 ppm	0.0052 ppm	0.0048 ppm	0.0079 ppm
Recovery Percentage 1	113.984 %	140.720 %	76.360 %	79.758 %	99.909 %	97.872 %	0.000 %
Concentration RSD	4.5 %	**41.4 %**	**9.0 %**	6.2 %	5.6 %	1.7 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0050 ppm	0.0049 ppm	0.0049 ppm	0.0051 ppm	0.0058 ppm	0.0483 ppm	0.0047 ppm
Concentration per Run 1	0.0050 ppm	0.0049 ppm	0.0048 ppm	0.0051 ppm	0.0040 ppm	0.0598 ppm	0.0067 ppm
Concentration per Run 2	0.0050 ppm	0.0049 ppm	0.0050 ppm	0.0050 ppm	0.0041 ppm	0.0355 ppm	0.0034 ppm
Concentration per Run 3	0.0050 ppm	0.0050 ppm	0.0049 ppm	0.0052 ppm	0.0092 ppm	0.0497 ppm	0.0039 ppm
Recovery Percentage 1	100.017 %	98.143 %	98.159 %	101.820 %	115.130 %	0.000 %	0.000 %
Concentration RSD	0.6 %	1.2 %	2.3 %	1.8 %	51.5 %	25.3 %	37.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0084 ppm	0.0054 ppm	0.0046 ppm	0.1088 ppm	0.0056 ppm	0.0055 ppm	0.0049 ppm
Concentration per Run 1	0.0076 ppm	0.0054 ppm	0.0045 ppm	0.1156 ppm	0.0057 ppm	0.0056 ppm	0.0053 ppm
Concentration per Run 2	0.0086 ppm	0.0053 ppm	0.0047 ppm	0.1051 ppm	0.0057 ppm	0.0054 ppm	0.0047 ppm
Concentration per Run 3	0.0090 ppm	0.0053 ppm	0.0045 ppm	0.1057 ppm	0.0055 ppm	0.0056 ppm	0.0045 ppm
Recovery Percentage 1	0.000 %	107.034 %	91.074 %	0.000 %	112.933 %	110.603 %	97.077 %
Concentration RSD	8.7 %	1.3 %	2.4 %	5.4 %	2.3 %	2.7 %	8.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	**0.0039 ppm**	**0.0575 ppm**	0.0051 ppm	0.0048 ppm	0.0052 ppm	0.0046 ppm	0.0051 ppm
Concentration per Run 1	0.0034 ppm	0.0625 ppm	0.0056 ppm	0.0050 ppm	0.0051 ppm	0.0046 ppm	0.0051 ppm
Concentration per Run 2	0.0047 ppm	0.0545 ppm	0.0048 ppm	0.0048 ppm	0.0052 ppm	0.0048 ppm	0.0051 ppm
Concentration per Run 3	0.0036 ppm	0.0556 ppm	0.0050 ppm	0.0048 ppm	0.0052 ppm	0.0043 ppm	0.0051 ppm
Recovery Percentage 1	77.742 %	1,150.234 %	102.648 %	96.981 %	103.127 %	91.481 %	101.715 %
Concentration RSD	**17.1 %**	**7.5 %**	7.9 %	2.6 %	0.4 %	5.2 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0059 ppm	97.3064 %	106.3661 %	101.3528 %	99.5965 %	104.7648 %	102.9184 %
Concentration per Run 1	0.0059 ppm	96.3809 %	106.0941 %	101.9150 %	98.5681 %	105.3112 %	102.9337 %
Concentration per Run 2	0.0060 ppm	98.1168 %	106.1566 %	100.8865 %	99.7277 %	104.3434 %	103.3053 %
Concentration per Run 3	0.0059 ppm	97.4215 %	106.8475 %	101.2569 %	100.4938 %	104.6399 %	102.5162 %
Recovery Percentage 1	118.360 %						
Concentration RSD	1.1 %	0.9 %	0.4 %	0.5 %	1.0 %	0.5 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: LDR 10 As
Analysis started at: 3/7/2025 10:36:05 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0017 ppm	9.5146 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	9.4821 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run 2	0.0003 ppm	0.0053 ppm	9.5162 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 3	0.0002 ppm	-0.0007 ppm	9.5456 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0106 ppm
Concentration RSD	32.4 %	187.7 %	0.3 %	23.5 %	1,203.0 %	81.3 %	28.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0037 ppm	0.0081 ppm	0.0008 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0035 ppm	0.0132 ppm	0.0013 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0038 ppm	-0.0122 ppm	0.0006 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0039 ppm	0.0235 ppm	0.0005 ppm
Concentration RSD	7.8 %	67.8 %	14.3 %	49.3 %	5.0 %	225.5 %	50.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0027 ppm	0.0000 ppm	-0.0003 ppm	0.0061 ppm	0.0002 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 1	0.0022 ppm	0.0001 ppm	-0.0002 ppm	0.0054 ppm	0.0001 ppm	0.0002 ppm	-0.0016 ppm
Concentration per Run 2	0.0034 ppm	0.0001 ppm	-0.0003 ppm	0.0094 ppm	0.0003 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	-0.0003 ppm	0.0034 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration RSD	23.4 %	288.2 %	31.3 %	49.5 %	99.9 %	125.8 %	41.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0023 ppm	-0.0006 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0020 ppm	-0.0010 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0016 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0032 ppm	-0.0001 ppm	0.0006 ppm	-0.0001 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Concentration RSD	35.9 %	74.8 %	81.4 %	712.1 %	52.6 %	113.9 %	1,368.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	97.1112 %	107.6445 %	101.6007 %	100.8349 %	105.7680 %	103.9725 %
Concentration per Run 1	0.0004 ppm	96.4620 %	107.3712 %	101.9792 %	99.7943 %	106.0174 %	103.7260 %
Concentration per Run 2	0.0004 ppm	97.6779 %	107.5316 %	101.3828 %	101.3442 %	105.6276 %	103.1151 %
Concentration per Run 3	0.0004 ppm	97.1937 %	108.0306 %	101.4401 %	101.3662 %	105.6589 %	105.0764 %
Concentration RSD	4.4 %	0.6 %	0.3 %	0.3 %	0.9 %	0.2 %	1.0 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 11:12:32 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4981 ppm	0.4860 ppm	0.4704 ppm	0.4757 ppm	0.4871 ppm	0.4662 ppm	0.5015 ppm
Concentration per Run 1	0.4985 ppm	0.4770 ppm	0.4682 ppm	0.4751 ppm	0.4738 ppm	0.4506 ppm	0.4878 ppm
Concentration per Run 2	0.4970 ppm	0.4968 ppm	0.4672 ppm	0.4721 ppm	0.4919 ppm	0.4725 ppm	0.5035 ppm
Concentration per Run 3	0.4990 ppm	0.4842 ppm	0.4757 ppm	0.4799 ppm	0.4955 ppm	0.4756 ppm	0.5132 ppm
Recovery Percentage 1	99.629 %	97.199 %	94.074 %	95.137 %	97.414 %	93.249 %	100.300 %
Concentration RSD	0.2 %	2.1 %	1.0 %	0.8 %	2.4 %	2.9 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4808 ppm	0.4846 ppm	0.4900 ppm	0.4759 ppm	0.4930 ppm	5.1115 ppm	0.4514 ppm
Concentration per Run 1	0.4804 ppm	0.4838 ppm	0.4903 ppm	0.4752 ppm	0.4757 ppm	4.9395 ppm	0.4360 ppm
Concentration per Run 2	0.4774 ppm	0.4816 ppm	0.4891 ppm	0.4766 ppm	0.4999 ppm	5.1870 ppm	0.4567 ppm
Concentration per Run 3	0.4847 ppm	0.4883 ppm	0.4904 ppm	0.4759 ppm	0.5033 ppm	5.2080 ppm	0.4616 ppm
Recovery Percentage 1	96.166 %	96.912 %	97.990 %	95.182 %	98.595 %	102.230 %	90.287 %
Concentration RSD	0.8 %	0.7 %	0.1 %	0.1 %	3.0 %	2.9 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5367 ppm	0.4804 ppm	0.4610 ppm	9.5613 ppm	0.5106 ppm	0.4673 ppm	0.4923 ppm
Concentration per Run 1	0.5359 ppm	0.4643 ppm	0.4592 ppm	9.2641 ppm	0.5103 ppm	0.4668 ppm	0.4901 ppm
Concentration per Run 2	0.5343 ppm	0.4881 ppm	0.4576 ppm	9.6837 ppm	0.5065 ppm	0.4637 ppm	0.4884 ppm
Concentration per Run 3	0.5398 ppm	0.4888 ppm	0.4663 ppm	9.7360 ppm	0.5149 ppm	0.4715 ppm	0.4985 ppm
Recovery Percentage 1	107.339 %	96.080 %	92.210 %	95.613 %	102.111 %	93.460 %	98.461 %
Concentration RSD	0.5 %	2.9 %	1.0 %	2.7 %	0.8 %	0.8 %	1.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4647 ppm	5.5048 ppm	0.4780 ppm	0.4687 ppm	0.5103 ppm	0.5080 ppm	0.4966 ppm
Concentration per Run 1	0.4622 ppm	5.4985 ppm	0.4768 ppm	0.4525 ppm	0.5108 ppm	0.5079 ppm	0.4968 ppm
Concentration per Run 2	0.4629 ppm	5.4686 ppm	0.4746 ppm	0.4749 ppm	0.5097 ppm	0.5043 ppm	0.4963 ppm
Concentration per Run 3	0.4690 ppm	5.5473 ppm	0.4828 ppm	0.4788 ppm	0.5103 ppm	0.5117 ppm	0.4967 ppm
Recovery Percentage 1	92.933 %	104.854 %	95.610 %	93.742 %	102.050 %	101.596 %	99.320 %
Concentration RSD	0.8 %	0.7 %	0.9 %	3.0 %	0.1 %	0.7 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4989 ppm	96.2579 %	105.4575 %	99.3203 %	100.6474 %	102.5265 %	103.0232 %
Concentration per Run 1	0.4988 ppm	98.2810 %	105.3327 %	99.7400 %	103.2595 %	102.7305 %	103.0091 %
Concentration per Run 2	0.4949 ppm	95.4010 %	105.8713 %	99.6961 %	99.4700 %	103.2142 %	103.3398 %
Concentration per Run 3	0.5029 ppm	95.0917 %	105.1686 %	98.5246 %	99.2126 %	101.6346 %	102.7206 %
Recovery Percentage 1	99.772 %						
Concentration RSD	0.8 %	1.8 %	0.3 %	0.7 %	2.3 %	0.8 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 11:18:39 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0007 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	-0.0024 ppm	0.0006 ppm	-0.0005 ppm	-0.0001 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 2	0.0002 ppm	0.0053 ppm	0.0009 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0045 ppm
Concentration per Run 3	0.0003 ppm	-0.0027 ppm	0.0005 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm	-0.0013 ppm
Recovery Percentage 1	1.767 %	0.069 %	13.694 %	-1.319 %	-1.406 %	1.475 %	2.359 %
Concentration RSD	141.9 %	6,527.9 %	24.7 %	31.0 %	59.9 %	30.6 %	135.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0094 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0024 ppm	0.0065 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm	-0.0010 ppm	0.0105 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0112 ppm	-0.0015 ppm
Recovery Percentage 1	0.863 %	-0.615 %	-1.119 %	4.361 %	0.950 %	0.377 %	-11.206 %
Concentration RSD	35.8 %	59.3 %	69.8 %	10.7 %	360.0 %	26.8 %	41.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0019 ppm	-0.0001 ppm	0.0003 ppm	0.0071 ppm	0.0004 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0005 ppm	0.0008 ppm	0.0006 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0096 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0053 ppm	0.0001 ppm	0.0003 ppm	0.0110 ppm	0.0003 ppm	0.0003 ppm	-0.0014 ppm
Recovery Percentage 1	1.889 %	-0.990 %	0.671 %	0.356 %	1.644 %	1.537 %	-0.807 %
Concentration RSD	157.3 %	323.6 %	33.5 %	77.5 %	35.1 %	97.2 %	264.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	-0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	-0.0004 ppm	-0.0005 ppm	0.0002 ppm	0.0003 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	-0.0013 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm	-0.0014 ppm	0.0000 ppm
Recovery Percentage 1	7.506 %	-0.144 %	0.008 %	0.980 %	2.430 %	-3.998 %	-0.685 %
Concentration RSD	105.3 %	72.0 %	10,250.5 %	90.9 %	80.6 %	63.0 %	110.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	93.6590 %	105.9071 %	99.9549 %	95.9307 %	103.8940 %	102.0937 %
Concentration per Run 1	0.0001 ppm	89.7726 %	105.8113 %	99.7747 %	91.3769 %	103.5878 %	102.1687 %
Concentration per Run 2	0.0001 ppm	94.6768 %	106.1569 %	100.0138 %	97.5045 %	103.9873 %	102.2357 %
Concentration per Run 3	0.0001 ppm	96.5277 %	105.7531 %	100.0760 %	98.9109 %	104.1068 %	101.8767 %
Recovery Percentage 1	2.110 %						
Concentration RSD	36.5 %	3.7 %	0.2 %	0.2 %	4.2 %	0.3 %	0.2 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037635-1 WG2037635
Analysis started at: 3/7/2025 11:44:47 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0027 ppm	-0.0019 ppm	0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0542 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	-0.0029 ppm	0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0572 ppm
Concentration per Run 2	-0.0003 ppm	0.0105 ppm	-0.0009 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0503 ppm
Concentration per Run 3	0.0003 ppm	-0.0025 ppm	-0.0018 ppm	0.0020 ppm	0.0002 ppm	0.0000 ppm	0.0551 ppm
Recovery Percentage 1	-0.700 %	2.731 %	-37.218 %	6.358 %	2.847 %	0.656 %	54.175 %
Concentration RSD	621.0 %	250.6 %	54.4 %	6.6 %	21.3 %	10.3 %	6.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0027 ppm	0.0835 ppm	0.0024 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0032 ppm	0.0883 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0031 ppm	0.0872 ppm	0.0019 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0018 ppm	0.0751 ppm	0.0033 ppm
Recovery Percentage 1	1.062 %	-0.649 %	1.837 %	10.531 %	5.347 %	3.342 %	23.544 %
Concentration RSD	110.2 %	24.3 %	41.3 %	11.0 %	28.3 %	8.7 %	34.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0074 ppm	0.0005 ppm	0.0000 ppm	144.1657 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0082 ppm	-0.0001 ppm	0.0001 ppm	144.0554 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 2	0.0079 ppm	0.0009 ppm	0.0001 ppm	144.2751 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0060 ppm	0.0006 ppm	-0.0002 ppm	144.1666 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm
Recovery Percentage 1	7.367 %	4.842 %	-0.021 %	7,208.285 %	-0.066 %	-1.585 %	0.750 %
Concentration RSD	16.5 %	106.0 %	1,196.6 %	0.1 %	660.8 %	27.3 %	183.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	0.0288 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0020 ppm	-0.0002 ppm
Concentration per Run 1	-0.0010 ppm	0.0290 ppm	0.0009 ppm	0.0000 ppm	-0.0003 ppm	-0.0025 ppm	-0.0002 ppm
Concentration per Run 2	-0.0013 ppm	0.0294 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	-0.0017 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0282 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0018 ppm	-0.0002 ppm
Recovery Percentage 1	-6.500 %	5.768 %	1.369 %	0.150 %	-1.486 %	-10.036 %	-1.673 %
Concentration RSD	142.7 %	2.1 %	34.3 %	233.2 %	62.5 %	20.5 %	14.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0013 ppm	92.2227 %	99.4731 %	94.5712 %	96.7218 %	93.2210 %	97.7992 %
Concentration per Run 1	0.0013 ppm	92.0901 %	99.5588 %	94.5073 %	96.6372 %	93.3192 %	97.8725 %
Concentration per Run 2	0.0013 ppm	92.2802 %	99.1125 %	94.5425 %	96.7551 %	92.9397 %	97.3999 %
Concentration per Run 3	0.0012 ppm	92.2978 %	99.7478 %	94.6640 %	96.7732 %	93.4040 %	98.1252 %
Recovery Percentage 1	25.640 %						
Concentration RSD	3.7 %	0.1 %	0.3 %	0.1 %	0.1 %	0.3 %	0.4 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037635-2 WG2037635
Analysis started at: 3/7/2025 11:51:13 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0497 ppm	2.0987 ppm	0.1078 ppm	0.9158 ppm	2.0573 ppm	0.0502 ppm	10.1383 ppm
Concentration per Run 1	0.0494 ppm	2.1285 ppm	0.1088 ppm	0.9197 ppm	2.0725 ppm	0.0509 ppm	10.2717 ppm
Concentration per Run 2	0.0503 ppm	2.0978 ppm	0.1075 ppm	0.9141 ppm	2.0639 ppm	0.0502 ppm	10.1300 ppm
Concentration per Run 3	0.0494 ppm	2.0697 ppm	0.1070 ppm	0.9134 ppm	2.0354 ppm	0.0496 ppm	10.0132 ppm
Concentration RSD	1.1 %	1.4 %	0.9 %	0.4 %	0.9 %	1.3 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0519 ppm	0.4882 ppm	0.1992 ppm	0.2452 ppm	1.0729 ppm	10.4991 ppm	0.0021 ppm
Concentration per Run 1	0.0520 ppm	0.4895 ppm	0.1991 ppm	0.2455 ppm	1.0874 ppm	10.7108 ppm	0.0034 ppm
Concentration per Run 2	0.0519 ppm	0.4880 ppm	0.1993 ppm	0.2447 ppm	1.0737 ppm	10.4890 ppm	0.0021 ppm
Concentration per Run 3	0.0518 ppm	0.4871 ppm	0.1992 ppm	0.2452 ppm	1.0575 ppm	10.2975 ppm	0.0007 ppm
Concentration RSD	0.3 %	0.2 %	0.0 %	0.2 %	1.4 %	2.0 %	66.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.2342 ppm	0.5203 ppm	0.9333 ppm	10.0644 ppm	0.5125 ppm	0.4900 ppm	0.5008 ppm
Concentration per Run 1	10.2366 ppm	0.5275 ppm	0.9336 ppm	10.2109 ppm	0.5142 ppm	0.4920 ppm	0.5033 ppm
Concentration per Run 2	10.2714 ppm	0.5201 ppm	0.9328 ppm	10.0809 ppm	0.5123 ppm	0.4896 ppm	0.5004 ppm
Concentration per Run 3	10.1947 ppm	0.5135 ppm	0.9336 ppm	9.9014 ppm	0.5109 ppm	0.4884 ppm	0.4987 ppm
Concentration RSD	0.4 %	1.3 %	0.1 %	1.5 %	0.3 %	0.4 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1025 ppm	1.0724 ppm	0.9140 ppm	0.9637 ppm	0.9949 ppm	0.1075 ppm	0.5077 ppm
Concentration per Run 1	0.1012 ppm	1.0751 ppm	0.9157 ppm	0.9768 ppm	0.9964 ppm	0.1072 ppm	0.5077 ppm
Concentration per Run 2	0.1028 ppm	1.0711 ppm	0.9143 ppm	0.9644 ppm	0.9950 ppm	0.1078 ppm	0.5076 ppm
Concentration per Run 3	0.1036 ppm	1.0712 ppm	0.9119 ppm	0.9500 ppm	0.9932 ppm	0.1076 ppm	0.5078 ppm
Concentration RSD	1.2 %	0.2 %	0.2 %	1.4 %	0.2 %	0.3 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5062 ppm	90.3130 %	101.6599 %	96.8260 %	93.1090 %	97.4326 %	100.0006 %
Concentration per Run 1	0.5066 ppm	89.3148 %	101.6594 %	96.7209 %	91.6523 %	97.2230 %	100.0497 %
Concentration per Run 2	0.5068 ppm	90.0809 %	101.4819 %	96.8836 %	93.0412 %	97.4482 %	99.6034 %
Concentration per Run 3	0.5053 ppm	91.5433 %	101.8384 %	96.8734 %	94.6336 %	97.6265 %	100.3488 %
Concentration RSD	0.2 %	1.3 %	0.2 %	0.1 %	1.6 %	0.2 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2512174-01 WG2037635
Analysis started at: 3/7/2025 11:57:20 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0237 ppm	-0.0005 ppm	0.0135 ppm	0.0640 ppm	0.0000 ppm	74.4501 ppm
Concentration per Run 1	0.0001 ppm	0.0303 ppm	-0.0023 ppm	0.0137 ppm	0.0651 ppm	0.0000 ppm	75.2990 ppm
Concentration per Run 2	0.0000 ppm	0.0225 ppm	0.0007 ppm	0.0132 ppm	0.0625 ppm	0.0001 ppm	73.1460 ppm
Concentration per Run 3	0.0000 ppm	0.0182 ppm	0.0002 ppm	0.0136 ppm	0.0644 ppm	0.0000 ppm	74.9055 ppm
Concentration RSD	245.8 %	25.8 %	352.0 %	1.7 %	2.1 %	195.0 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0027 ppm	0.0000 ppm	0.0013 ppm	0.0031 ppm	3.0379 ppm	0.0228 ppm
Concentration per Run 1	0.0014 ppm	0.0027 ppm	0.0002 ppm	0.0012 ppm	0.0024 ppm	3.0628 ppm	0.0233 ppm
Concentration per Run 2	0.0014 ppm	0.0026 ppm	-0.0002 ppm	0.0014 ppm	0.0030 ppm	2.9854 ppm	0.0221 ppm
Concentration per Run 3	0.0014 ppm	0.0027 ppm	0.0000 ppm	0.0013 ppm	0.0039 ppm	3.0655 ppm	0.0230 ppm
Concentration RSD	0.9 %	1.7 %	1,436.5 %	8.3 %	23.3 %	1.5 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.8582 ppm	0.1891 ppm	0.0009 ppm	134.5229 ppm	0.0020 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 1	0.8496 ppm	0.1905 ppm	0.0011 ppm	136.2478 ppm	0.0019 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.8789 ppm	0.1865 ppm	0.0008 ppm	132.2191 ppm	0.0021 ppm	0.0012 ppm	-0.0007 ppm
Concentration per Run 3	0.8461 ppm	0.1903 ppm	0.0007 ppm	135.1017 ppm	0.0019 ppm	-0.0001 ppm	-0.0006 ppm
Concentration RSD	2.1 %	1.2 %	26.7 %	1.5 %	5.8 %	260.0 %	79.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.2980 ppm	0.0009 ppm	0.1279 ppm	0.0001 ppm	-0.0026 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.2971 ppm	0.0006 ppm	0.1289 ppm	0.0000 ppm	-0.0019 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.2981 ppm	0.0008 ppm	0.1258 ppm	-0.0002 ppm	-0.0034 ppm	0.0006 ppm
Concentration per Run 3	0.0004 ppm	0.2989 ppm	0.0012 ppm	0.1290 ppm	0.0005 ppm	-0.0025 ppm	0.0003 ppm
Concentration RSD	159.1 %	0.3 %	34.9 %	1.4 %	337.3 %	29.5 %	34.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1382 ppm	92.4156 %	97.5719 %	93.0826 %	95.8571 %	90.6919 %	96.6099 %
Concentration per Run 1	0.1383 ppm	90.7811 %	98.6385 %	92.8772 %	94.4832 %	90.6053 %	97.4258 %
Concentration per Run 2	0.1380 ppm	94.1705 %	95.0916 %	93.1571 %	97.3738 %	90.7736 %	94.2039 %
Concentration per Run 3	0.1383 ppm	92.2952 %	98.9855 %	93.2137 %	95.7143 %	90.6968 %	98.2000 %
Concentration RSD	0.1 %	1.8 %	2.2 %	0.2 %	1.5 %	0.1 %	2.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037635-3 WG2037635
Analysis started at: 3/7/2025 12:03:40 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0499 ppm	2.0690 ppm	0.1113 ppm	0.9627 ppm	2.0761 ppm	0.0493 ppm	85.6515 ppm
Concentration per Run 1	0.0497 ppm	2.0506 ppm	0.1114 ppm	0.9601 ppm	2.0607 ppm	0.0488 ppm	85.0136 ppm
Concentration per Run 2	0.0499 ppm	2.0871 ppm	0.1129 ppm	0.9620 ppm	2.0959 ppm	0.0498 ppm	86.3067 ppm
Concentration per Run 3	0.0502 ppm	2.0693 ppm	0.1096 ppm	0.9661 ppm	2.0717 ppm	0.0492 ppm	85.6341 ppm
Concentration RSD	0.5 %	0.9 %	1.5 %	0.3 %	0.9 %	1.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0538 ppm	0.4916 ppm	0.1949 ppm	0.2477 ppm	1.0586 ppm	13.9401 ppm	0.0239 ppm
Concentration per Run 1	0.0536 ppm	0.4900 ppm	0.1950 ppm	0.2473 ppm	1.0481 ppm	13.8721 ppm	0.0238 ppm
Concentration per Run 2	0.0538 ppm	0.4920 ppm	0.1952 ppm	0.2483 ppm	1.0703 ppm	14.0054 ppm	0.0239 ppm
Concentration per Run 3	0.0539 ppm	0.4930 ppm	0.1945 ppm	0.2476 ppm	1.0575 ppm	13.9429 ppm	0.0239 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.2 %	1.1 %	0.5 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5319 ppm	0.6933 ppm	0.9622 ppm	144.8026 ppm	0.5140 ppm	0.4867 ppm	0.5215 ppm
Concentration per Run 1	10.5420 ppm	0.6867 ppm	0.9572 ppm	144.2200 ppm	0.5119 ppm	0.4849 ppm	0.5178 ppm
Concentration per Run 2	10.5424 ppm	0.7002 ppm	0.9635 ppm	145.6525 ppm	0.5148 ppm	0.4873 ppm	0.5242 ppm
Concentration per Run 3	10.5114 ppm	0.6929 ppm	0.9659 ppm	144.5353 ppm	0.5152 ppm	0.4880 ppm	0.5224 ppm
Concentration RSD	0.2 %	1.0 %	0.5 %	0.5 %	0.3 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1085 ppm	1.4319 ppm	0.9205 ppm	1.0675 ppm	0.9898 ppm	0.1047 ppm	0.5069 ppm
Concentration per Run 1	0.1108 ppm	1.4274 ppm	0.9167 ppm	1.0608 ppm	0.9912 ppm	0.1043 ppm	0.5071 ppm
Concentration per Run 2	0.1089 ppm	1.4309 ppm	0.9229 ppm	1.0759 ppm	0.9910 ppm	0.1048 ppm	0.5080 ppm
Concentration per Run 3	0.1057 ppm	1.4374 ppm	0.9219 ppm	1.0657 ppm	0.9874 ppm	0.1049 ppm	0.5058 ppm
Concentration RSD	2.4 %	0.4 %	0.4 %	0.7 %	0.2 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6481 ppm	89.4456 %	98.1558 %	93.5545 %	92.5412 %	90.9493 %	96.8496 %
Concentration per Run 1	0.6457 ppm	89.9165 %	98.0729 %	93.9629 %	93.0607 %	91.2979 %	96.6974 %
Concentration per Run 2	0.6490 ppm	89.0505 %	98.3413 %	93.2544 %	92.2076 %	90.8755 %	96.9740 %
Concentration per Run 3	0.6495 ppm	89.3697 %	98.0533 %	93.4463 %	92.3553 %	90.6746 %	96.8773 %
Concentration RSD	0.3 %	0.5 %	0.2 %	0.4 %	0.5 %	0.3 %	0.1 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037635-4 WG2037635
Analysis started at: 3/7/2025 12:09:46 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0247 ppm	0.0000 ppm	0.0142 ppm	0.0651 ppm	0.0000 ppm	75.4866 ppm
Concentration per Run 1	0.0005 ppm	0.0236 ppm	-0.0009 ppm	0.0143 ppm	0.0646 ppm	0.0000 ppm	75.2473 ppm
Concentration per Run 2	-0.0002 ppm	0.0212 ppm	0.0014 ppm	0.0140 ppm	0.0651 ppm	0.0000 ppm	75.8184 ppm
Concentration per Run 3	-0.0001 ppm	0.0292 ppm	-0.0005 ppm	0.0142 ppm	0.0656 ppm	0.0000 ppm	75.3942 ppm
Concentration RSD	427.6 %	16.6 %	56,459.6 %	0.9 %	0.8 %	246.8 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0014 ppm	0.0025 ppm	0.0004 ppm	0.0016 ppm	0.0070 ppm	3.1050 ppm	0.0249 ppm
Concentration per Run 1	0.0014 ppm	0.0024 ppm	0.0005 ppm	0.0017 ppm	0.0078 ppm	3.0952 ppm	0.0231 ppm
Concentration per Run 2	0.0014 ppm	0.0028 ppm	0.0004 ppm	0.0017 ppm	0.0072 ppm	3.1075 ppm	0.0256 ppm
Concentration per Run 3	0.0014 ppm	0.0025 ppm	0.0003 ppm	0.0015 ppm	0.0061 ppm	3.1122 ppm	0.0259 ppm
Concentration RSD	1.2 %	8.7 %	21.9 %	5.8 %	12.2 %	0.3 %	6.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.8751 ppm	0.1922 ppm	0.0010 ppm	133.5493 ppm	0.0021 ppm	0.0005 ppm	-0.0010 ppm
Concentration per Run 1	0.8683 ppm	0.1907 ppm	0.0012 ppm	133.6062 ppm	0.0022 ppm	0.0009 ppm	-0.0011 ppm
Concentration per Run 2	0.8775 ppm	0.1938 ppm	0.0011 ppm	134.4967 ppm	0.0020 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 3	0.8794 ppm	0.1922 ppm	0.0008 ppm	132.5449 ppm	0.0020 ppm	0.0008 ppm	-0.0012 ppm
Concentration RSD	0.7 %	0.8 %	21.3 %	0.7 %	7.3 %	101.7 %	34.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	0.3046 ppm	0.0007 ppm	0.1306 ppm	0.0001 ppm	-0.0022 ppm	0.0002 ppm
Concentration per Run 1	-0.0026 ppm	0.3038 ppm	0.0006 ppm	0.1300 ppm	-0.0001 ppm	-0.0029 ppm	0.0002 ppm
Concentration per Run 2	0.0016 ppm	0.3057 ppm	0.0003 ppm	0.1318 ppm	-0.0001 ppm	-0.0030 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	0.3042 ppm	0.0011 ppm	0.1300 ppm	0.0004 ppm	-0.0009 ppm	0.0002 ppm
Concentration RSD	323.6 %	0.3 %	59.5 %	0.8 %	368.0 %	53.0 %	25.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1434 ppm	94.1230 %	98.8766 %	93.6978 %	97.8506 %	91.4402 %	97.2277 %
Concentration per Run 1	0.1437 ppm	93.7687 %	99.0993 %	93.8136 %	97.4892 %	91.3714 %	97.5795 %
Concentration per Run 2	0.1437 ppm	94.6463 %	98.6800 %	93.6823 %	97.8383 %	91.4104 %	96.9536 %
Concentration per Run 3	0.1429 ppm	93.9541 %	98.8504 %	93.5976 %	98.2244 %	91.5389 %	97.1499 %
Concentration RSD	0.3 %	0.5 %	0.2 %	0.1 %	0.4 %	0.1 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2512232-01 WG2037635
Analysis started at: 3/7/2025 12:16:06 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0274 ppm	0.0000 ppm	0.0058 ppm	0.0345 ppm	0.0000 ppm	72.7986 ppm
Concentration per Run 1	0.0002 ppm	0.0289 ppm	0.0003 ppm	0.0058 ppm	0.0349 ppm	0.0000 ppm	73.7523 ppm
Concentration per Run 2	-0.0005 ppm	0.0287 ppm	-0.0013 ppm	0.0060 ppm	0.0342 ppm	0.0000 ppm	72.6397 ppm
Concentration per Run 3	0.0001 ppm	0.0245 ppm	0.0010 ppm	0.0057 ppm	0.0345 ppm	0.0000 ppm	72.0039 ppm
Concentration RSD	1,392.4 %	9.2 %	191,890.3 %	3.0 %	1.0 %	47.8 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0021 ppm	0.0002 ppm	0.0010 ppm	0.0095 ppm	0.3957 ppm	0.0039 ppm
Concentration per Run 1	0.0001 ppm	0.0022 ppm	0.0000 ppm	0.0008 ppm	0.0100 ppm	0.4213 ppm	0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0020 ppm	0.0002 ppm	0.0010 ppm	0.0089 ppm	0.3823 ppm	0.0043 ppm
Concentration per Run 3	0.0001 ppm	0.0020 ppm	0.0004 ppm	0.0011 ppm	0.0097 ppm	0.3835 ppm	0.0040 ppm
Concentration RSD	61.2 %	5.8 %	118.7 %	16.3 %	6.3 %	5.6 %	13.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.6129 ppm	0.4508 ppm	0.0005 ppm	137.4424 ppm	0.0010 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 1	1.6156 ppm	0.4585 ppm	0.0006 ppm	140.1418 ppm	0.0010 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 2	1.6146 ppm	0.4496 ppm	0.0005 ppm	137.2021 ppm	0.0012 ppm	0.0002 ppm	-0.0006 ppm
Concentration per Run 3	1.6086 ppm	0.4442 ppm	0.0002 ppm	134.9833 ppm	0.0009 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	0.2 %	1.6 %	40.6 %	1.9 %	16.3 %	86.5 %	90.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0008 ppm	0.2910 ppm	0.0007 ppm	0.0765 ppm	0.0000 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 1	-0.0024 ppm	0.2911 ppm	0.0007 ppm	0.0779 ppm	0.0001 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.2895 ppm	0.0008 ppm	0.0767 ppm	-0.0001 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.2925 ppm	0.0005 ppm	0.0750 ppm	-0.0001 ppm	-0.0003 ppm	0.0003 ppm
Concentration RSD	176.1 %	0.5 %	22.0 %	1.9 %	283.8 %	104.9 %	63.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0078 ppm	91.4122 %	98.7761 %	93.7788 %	94.7320 %	91.6751 %	97.3082 %
Concentration per Run 1	0.0079 ppm	90.1117 %	98.6369 %	93.6434 %	93.0053 %	91.6981 %	97.2303 %
Concentration per Run 2	0.0078 ppm	91.9757 %	98.7971 %	93.6723 %	95.1127 %	91.5671 %	97.3990 %
Concentration per Run 3	0.0078 ppm	92.1494 %	98.8944 %	94.0208 %	96.0781 %	91.7602 %	97.2954 %
Concentration RSD	0.6 %	1.2 %	0.1 %	0.2 %	1.7 %	0.1 %	0.1 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2512232-02 WG2037635
Analysis started at: 3/7/2025 12:22:29 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0246 ppm	0.0009 ppm	0.0302 ppm	0.0429 ppm	0.0000 ppm	75.7415 ppm
Concentration per Run 1	0.0003 ppm	0.0263 ppm	-0.0012 ppm	0.0300 ppm	0.0426 ppm	0.0000 ppm	74.9604 ppm
Concentration per Run 2	0.0001 ppm	0.0264 ppm	0.0012 ppm	0.0307 ppm	0.0429 ppm	0.0000 ppm	76.1636 ppm
Concentration per Run 3	0.0003 ppm	0.0212 ppm	0.0027 ppm	0.0300 ppm	0.0432 ppm	0.0001 ppm	76.1007 ppm
Concentration RSD	62.5 %	12.2 %	220.2 %	1.4 %	0.7 %	31.8 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0165 ppm	0.0032 ppm	0.3091 ppm	0.0036 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0163 ppm	0.0027 ppm	0.2997 ppm	0.0029 ppm
Concentration per Run 2	0.0005 ppm	-0.0003 ppm	0.0002 ppm	0.0166 ppm	0.0037 ppm	0.3094 ppm	0.0040 ppm
Concentration per Run 3	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0166 ppm	0.0033 ppm	0.3181 ppm	0.0040 ppm
Concentration RSD	2.4 %	251.0 %	85.2 %	0.9 %	15.6 %	3.0 %	18.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.8087 ppm	0.0587 ppm	-0.0003 ppm	132.3738 ppm	0.0008 ppm	0.0307 ppm	0.0008 ppm
Concentration per Run 1	0.8079 ppm	0.0579 ppm	-0.0003 ppm	131.9135 ppm	0.0011 ppm	0.0312 ppm	0.0010 ppm
Concentration per Run 2	0.8140 ppm	0.0589 ppm	-0.0003 ppm	133.0374 ppm	0.0010 ppm	0.0304 ppm	0.0016 ppm
Concentration per Run 3	0.8042 ppm	0.0591 ppm	-0.0003 ppm	132.1704 ppm	0.0004 ppm	0.0306 ppm	-0.0001 ppm
Concentration RSD	0.6 %	1.1 %	0.2 %	0.4 %	45.0 %	1.4 %	109.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0016 ppm	0.2370 ppm	0.0007 ppm	0.0855 ppm	0.0001 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	0.2421 ppm	0.0010 ppm	0.0846 ppm	0.0002 ppm	-0.0027 ppm	0.0000 ppm
Concentration per Run 2	-0.0017 ppm	0.2346 ppm	0.0006 ppm	0.0861 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0026 ppm	0.2343 ppm	0.0005 ppm	0.0858 ppm	0.0002 ppm	-0.0020 ppm	0.0001 ppm
Concentration RSD	63.9 %	1.9 %	37.5 %	0.9 %	181.0 %	108.1 %	741.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0758 ppm	95.8725 %	99.6034 %	94.4515 %	99.7438 %	92.6560 %	97.8588 %
Concentration per Run 1	0.0758 ppm	96.8401 %	99.5494 %	94.4463 %	100.7664 %	92.7494 %	97.8837 %
Concentration per Run 2	0.0760 ppm	95.3321 %	99.6765 %	94.4412 %	98.9976 %	92.3796 %	97.6582 %
Concentration per Run 3	0.0758 ppm	95.4454 %	99.5843 %	94.4672 %	99.4674 %	92.8389 %	98.0344 %
Concentration RSD	0.1 %	0.9 %	0.1 %	0.0 %	0.9 %	0.3 %	0.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2512232-03 WG2037635
Analysis started at: 3/7/2025 12:28:47 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0241 ppm	-0.0001 ppm	0.0081 ppm	0.0364 ppm	0.0000 ppm	76.6418 ppm
Concentration per Run 1	0.0001 ppm	0.0255 ppm	0.0008 ppm	0.0080 ppm	0.0371 ppm	0.0000 ppm	78.0730 ppm
Concentration per Run 2	0.0002 ppm	0.0299 ppm	-0.0012 ppm	0.0082 ppm	0.0363 ppm	0.0000 ppm	76.6834 ppm
Concentration per Run 3	0.0004 ppm	0.0169 ppm	0.0003 ppm	0.0082 ppm	0.0358 ppm	0.0000 ppm	75.1689 ppm
Concentration RSD	83.6 %	27.3 %	1,696.7 %	1.8 %	1.8 %	219.6 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm	0.0068 ppm	0.4315 ppm	0.0038 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0122 ppm	0.0080 ppm	0.4315 ppm	0.0041 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	-0.0003 ppm	0.0122 ppm	0.0056 ppm	0.4616 ppm	0.0022 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0119 ppm	0.0070 ppm	0.4015 ppm	0.0051 ppm
Concentration RSD	6.3 %	34.0 %	2,142.3 %	1.6 %	18.1 %	7.0 %	39.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.8024 ppm	0.0416 ppm	-0.0003 ppm	138.9742 ppm	0.0006 ppm	0.0593 ppm	0.0018 ppm
Concentration per Run 1	0.8022 ppm	0.0421 ppm	-0.0002 ppm	142.1115 ppm	0.0004 ppm	0.0591 ppm	0.0017 ppm
Concentration per Run 2	0.8046 ppm	0.0418 ppm	-0.0004 ppm	139.0916 ppm	0.0008 ppm	0.0596 ppm	0.0013 ppm
Concentration per Run 3	0.8003 ppm	0.0410 ppm	-0.0003 ppm	135.7194 ppm	0.0007 ppm	0.0592 ppm	0.0024 ppm
Concentration RSD	0.3 %	1.4 %	41.9 %	2.3 %	36.7 %	0.5 %	30.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0014 ppm	0.2055 ppm	0.0012 ppm	0.0878 ppm	0.0002 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 1	-0.0025 ppm	0.2047 ppm	0.0006 ppm	0.0893 ppm	-0.0002 ppm	-0.0019 ppm	0.0001 ppm
Concentration per Run 2	-0.0034 ppm	0.2058 ppm	0.0011 ppm	0.0881 ppm	0.0004 ppm	-0.0032 ppm	0.0001 ppm
Concentration per Run 3	0.0018 ppm	0.2059 ppm	0.0018 ppm	0.0860 ppm	0.0003 ppm	-0.0014 ppm	0.0001 ppm
Concentration RSD	201.5 %	0.3 %	48.8 %	1.9 %	186.5 %	42.6 %	35.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0589 ppm	91.2623 %	99.6516 %	94.2358 %	95.0572 %	92.2148 %	97.7604 %
Concentration per Run 1	0.0590 ppm	89.1897 %	99.4597 %	94.2153 %	92.9639 %	92.1539 %	97.5198 %
Concentration per Run 2	0.0589 ppm	91.7762 %	99.7476 %	94.1274 %	95.0559 %	92.1924 %	97.7936 %
Concentration per Run 3	0.0588 ppm	92.8209 %	99.7474 %	94.3648 %	97.1519 %	92.2983 %	97.9678 %
Concentration RSD	0.2 %	2.0 %	0.2 %	0.1 %	2.2 %	0.1 %	0.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2512232-04 WG2037635
Analysis started at: 3/7/2025 12:35:05 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0247 ppm	-0.0001 ppm	0.0120 ppm	0.0373 ppm	0.0000 ppm	32.9778 ppm
Concentration per Run 1	-0.0001 ppm	0.0305 ppm	0.0013 ppm	0.0120 ppm	0.0373 ppm	0.0000 ppm	32.8876 ppm
Concentration per Run 2	-0.0002 ppm	0.0210 ppm	-0.0011 ppm	0.0119 ppm	0.0375 ppm	0.0000 ppm	33.1319 ppm
Concentration per Run 3	-0.0001 ppm	0.0227 ppm	-0.0004 ppm	0.0123 ppm	0.0371 ppm	0.0000 ppm	32.9139 ppm
Concentration RSD	57.5 %	20.3 %	1,944.1 %	2.0 %	0.5 %	431.5 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0010 ppm	0.0077 ppm	0.0135 ppm	0.2387 ppm	0.0033 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0010 ppm	0.0074 ppm	0.0142 ppm	0.2369 ppm	0.0023 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0009 ppm	0.0079 ppm	0.0127 ppm	0.2363 ppm	0.0040 ppm
Concentration per Run 3	0.0004 ppm	-0.0001 ppm	0.0011 ppm	0.0079 ppm	0.0136 ppm	0.2430 ppm	0.0034 ppm
Concentration RSD	4.2 %	26.1 %	7.5 %	3.7 %	5.4 %	1.5 %	26.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.3556 ppm	0.1197 ppm	-0.0002 ppm	133.1092 ppm	0.0021 ppm	0.0073 ppm	-0.0005 ppm
Concentration per Run 1	4.3641 ppm	0.1187 ppm	-0.0002 ppm	133.2176 ppm	0.0018 ppm	0.0071 ppm	-0.0003 ppm
Concentration per Run 2	4.3648 ppm	0.1201 ppm	-0.0001 ppm	133.3863 ppm	0.0022 ppm	0.0073 ppm	0.0001 ppm
Concentration per Run 3	4.3380 ppm	0.1203 ppm	-0.0003 ppm	132.7237 ppm	0.0024 ppm	0.0076 ppm	-0.0014 ppm
Concentration RSD	0.4 %	0.7 %	60.6 %	0.3 %	14.3 %	3.6 %	145.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.2414 ppm	0.0008 ppm	0.0431 ppm	0.0003 ppm	-0.0033 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.2438 ppm	0.0012 ppm	0.0427 ppm	0.0006 ppm	-0.0032 ppm	-0.0001 ppm
Concentration per Run 2	-0.0029 ppm	0.2412 ppm	0.0006 ppm	0.0432 ppm	0.0005 ppm	-0.0037 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.2390 ppm	0.0006 ppm	0.0433 ppm	-0.0001 ppm	-0.0031 ppm	0.0000 ppm
Concentration RSD	199.2 %	1.0 %	42.8 %	0.7 %	116.3 %	10.5 %	333.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1089 ppm	94.3453 %	100.0427 %	95.6266 %	98.0643 %	93.9319 %	98.4282 %
Concentration per Run 1	0.1096 ppm	94.3435 %	100.0984 %	95.3093 %	98.4189 %	93.4657 %	98.2225 %
Concentration per Run 2	0.1082 ppm	93.8408 %	99.6950 %	96.1010 %	97.6589 %	94.4792 %	98.1664 %
Concentration per Run 3	0.1089 ppm	94.8515 %	100.3347 %	95.4696 %	98.1151 %	93.8508 %	98.8955 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.4 %	0.4 %	0.5 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511800-11 wg2037385
Analysis started at: 3/7/2025 12:41:23 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0241 ppm	0.0003 ppm	0.0287 ppm	0.0386 ppm	0.0000 ppm	76.6596 ppm
Concentration per Run 1	0.0002 ppm	0.0228 ppm	0.0006 ppm	0.0286 ppm	0.0382 ppm	0.0000 ppm	75.6988 ppm
Concentration per Run 2	-0.0001 ppm	0.0255 ppm	0.0034 ppm	0.0292 ppm	0.0386 ppm	0.0000 ppm	77.0905 ppm
Concentration per Run 3	-0.0002 ppm	0.0239 ppm	-0.0033 ppm	0.0282 ppm	0.0391 ppm	0.0000 ppm	77.1896 ppm
Concentration RSD	535.2 %	5.5 %	1,310.9 %	1.6 %	1.2 %	201.7 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	-0.0001 ppm	0.0010 ppm	0.0011 ppm	0.0010 ppm	0.4572 ppm	0.0055 ppm
Concentration per Run 1	-0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0011 ppm	0.0032 ppm	0.4636 ppm	0.0061 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0011 ppm	-0.0003 ppm	0.4475 ppm	0.0045 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0011 ppm	0.0001 ppm	0.4604 ppm	0.0058 ppm
Concentration RSD	19.5 %	48.6 %	12.0 %	2.4 %	187.6 %	1.9 %	15.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.1325 ppm	0.0127 ppm	0.0001 ppm	138.1554 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	2.1223 ppm	0.0126 ppm	0.0001 ppm	136.9274 ppm	-0.0005 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	2.1381 ppm	0.0123 ppm	0.0002 ppm	138.5723 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	2.1370 ppm	0.0131 ppm	0.0001 ppm	138.9664 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm
Concentration RSD	0.4 %	3.3 %	39.0 %	0.8 %	75.7 %	75.3 %	233.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	2.9973 ppm	0.0011 ppm	0.2624 ppm	0.0002 ppm	-0.0022 ppm	0.0004 ppm
Concentration per Run 1	0.0003 ppm	2.9827 ppm	0.0012 ppm	0.2585 ppm	0.0001 ppm	-0.0017 ppm	0.0002 ppm
Concentration per Run 2	-0.0023 ppm	3.0060 ppm	0.0008 ppm	0.2638 ppm	0.0001 ppm	-0.0038 ppm	0.0006 ppm
Concentration per Run 3	0.0012 ppm	3.0031 ppm	0.0014 ppm	0.2650 ppm	0.0003 ppm	-0.0009 ppm	0.0003 ppm
Concentration RSD	662.9 %	0.4 %	29.2 %	1.3 %	67.8 %	70.1 %	59.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	93.9270 %	98.3298 %	93.8007 %	98.3898 %	91.8764 %	96.8225 %
Concentration per Run 1	0.0014 ppm	95.0543 %	98.4334 %	94.1207 %	99.5057 %	92.1398 %	97.2096 %
Concentration per Run 2	0.0014 ppm	93.5668 %	98.2123 %	93.5711 %	97.8709 %	91.8091 %	96.4928 %
Concentration per Run 3	0.0015 ppm	93.1599 %	98.3438 %	93.7101 %	97.7928 %	91.6803 %	96.7651 %
Concentration RSD	3.7 %	1.1 %	0.1 %	0.3 %	1.0 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 12:47:43 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5051 ppm	0.4960 ppm	0.4725 ppm	0.4751 ppm	0.4861 ppm	0.4743 ppm	0.5133 ppm
Concentration per Run 1	0.5026 ppm	0.4947 ppm	0.4726 ppm	0.4748 ppm	0.4840 ppm	0.4685 ppm	0.5026 ppm
Concentration per Run 2	0.5061 ppm	0.4994 ppm	0.4733 ppm	0.4770 ppm	0.4837 ppm	0.4758 ppm	0.5168 ppm
Concentration per Run 3	0.5065 ppm	0.4939 ppm	0.4717 ppm	0.4734 ppm	0.4907 ppm	0.4786 ppm	0.5205 ppm
Recovery Percentage 1	101.011 %	99.199 %	94.504 %	95.014 %	97.230 %	94.856 %	102.660 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.4 %	0.8 %	1.1 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4772 ppm	0.4820 ppm	0.4917 ppm	0.4804 ppm	0.5006 ppm	5.1887 ppm	0.4595 ppm
Concentration per Run 1	0.4767 ppm	0.4814 ppm	0.4914 ppm	0.4796 ppm	0.4958 ppm	5.1367 ppm	0.4548 ppm
Concentration per Run 2	0.4794 ppm	0.4849 ppm	0.4927 ppm	0.4805 ppm	0.5014 ppm	5.1883 ppm	0.4608 ppm
Concentration per Run 3	0.4756 ppm	0.4797 ppm	0.4910 ppm	0.4812 ppm	0.5048 ppm	5.2412 ppm	0.4630 ppm
Recovery Percentage 1	95.442 %	96.404 %	98.336 %	96.088 %	100.130 %	103.774 %	91.905 %
Concentration RSD	0.4 %	0.5 %	0.2 %	0.2 %	0.9 %	1.0 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5372 ppm	0.4857 ppm	0.4600 ppm	9.3791 ppm	0.5054 ppm	0.4680 ppm	0.4905 ppm
Concentration per Run 1	0.5360 ppm	0.4782 ppm	0.4579 ppm	9.2814 ppm	0.5043 ppm	0.4673 ppm	0.4921 ppm
Concentration per Run 2	0.5367 ppm	0.4872 ppm	0.4622 ppm	9.4048 ppm	0.5081 ppm	0.4708 ppm	0.4911 ppm
Concentration per Run 3	0.5388 ppm	0.4917 ppm	0.4599 ppm	9.4510 ppm	0.5037 ppm	0.4658 ppm	0.4884 ppm
Recovery Percentage 1	107.438 %	97.142 %	92.004 %	93.791 %	101.075 %	93.595 %	98.106 %
Concentration RSD	0.3 %	1.4 %	0.5 %	0.9 %	0.5 %	0.6 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4649 ppm	5.4681 ppm	0.4775 ppm	0.4757 ppm	0.5115 ppm	0.5078 ppm	0.4971 ppm
Concentration per Run 1	0.4672 ppm	5.4679 ppm	0.4782 ppm	0.4690 ppm	0.5103 ppm	0.5078 ppm	0.4964 ppm
Concentration per Run 2	0.4645 ppm	5.4906 ppm	0.4789 ppm	0.4782 ppm	0.5122 ppm	0.5096 ppm	0.4980 ppm
Concentration per Run 3	0.4630 ppm	5.4458 ppm	0.4754 ppm	0.4800 ppm	0.5120 ppm	0.5060 ppm	0.4969 ppm
Recovery Percentage 1	92.975 %	104.155 %	95.497 %	95.138 %	102.294 %	101.558 %	99.422 %
Concentration RSD	0.5 %	0.4 %	0.4 %	1.2 %	0.2 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4945 ppm	96.7117 %	105.3375 %	99.9402 %	100.0588 %	103.3371 %	102.5242 %
Concentration per Run 1	0.4940 ppm	96.9748 %	105.4331 %	100.0446 %	100.8510 %	103.6031 %	102.8689 %
Concentration per Run 2	0.4965 ppm	97.1688 %	105.3264 %	99.8079 %	99.9489 %	102.7904 %	102.2431 %
Concentration per Run 3	0.4929 ppm	95.9914 %	105.2528 %	99.9682 %	99.3765 %	103.6178 %	102.4605 %
Recovery Percentage 1	98.896 %						
Concentration RSD	0.4 %	0.7 %	0.1 %	0.1 %	0.7 %	0.5 %	0.3 %

ICP DataTrace 5

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LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 12:53:56 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0016 ppm	-0.0013 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0055 ppm
Concentration per Run 1	0.0003 ppm	-0.0020 ppm	-0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 2	0.0001 ppm	-0.0020 ppm	-0.0016 ppm	-0.0004 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm
Concentration per Run 3	0.0003 ppm	0.0087 ppm	-0.0012 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0034 ppm
Recovery Percentage 1	3.131 %	1.562 %	-25.112 %	-0.524 %	-0.770 %	1.195 %	5.478 %
Concentration RSD	52.5 %	394.9 %	24.4 %	124.6 %	175.2 %	50.3 %	37.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0011 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	-0.0030 ppm	0.0129 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0144 ppm	0.0010 ppm
Recovery Percentage 1	0.970 %	-0.630 %	0.019 %	2.608 %	-2.162 %	-0.023 %	4.212 %
Concentration RSD	63.9 %	49.4 %	6,611.5 %	81.2 %	159.7 %	2,337.5 %	131.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0240 ppm	0.0004 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 1	-0.0029 ppm	0.0001 ppm	0.0004 ppm	0.0283 ppm	0.0002 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 2	0.0017 ppm	0.0000 ppm	0.0003 ppm	0.0176 ppm	0.0005 ppm	0.0002 ppm	-0.0020 ppm
Concentration per Run 3	0.0010 ppm	0.0002 ppm	0.0003 ppm	0.0260 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-0.084 %	1.055 %	0.593 %	1.199 %	1.699 %	0.753 %	-2.192 %
Concentration RSD	2,956.8 %	106.2 %	19.4 %	23.4 %	43.4 %	98.6 %	79.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 2	-0.0018 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0015 ppm	0.0003 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage 1	-2.447 %	-0.154 %	0.148 %	0.027 %	-2.783 %	-0.837 %	-0.151 %
Concentration RSD	583.1 %	79.6 %	229.3 %	3,400.2 %	101.7 %	75.9 %	1,503.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	98.5139 %	106.2328 %	100.9093 %	100.7570 %	105.0244 %	102.2078 %
Concentration per Run 1	0.0002 ppm	99.3855 %	106.3960 %	101.1156 %	102.0559 %	105.2314 %	102.6337 %
Concentration per Run 2	0.0000 ppm	98.3195 %	105.7635 %	100.5402 %	100.5053 %	104.8131 %	101.8856 %
Concentration per Run 3	0.0002 ppm	97.8367 %	106.5387 %	101.0721 %	99.7097 %	105.0288 %	102.1042 %
Recovery Percentage 1	2.475 %						
Concentration RSD	71.8 %	0.8 %	0.4 %	0.3 %	1.2 %	0.2 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511800-13 wg2037385
Analysis started at: 3/7/2025 1:00:28 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0431 ppm	-0.0001 ppm	0.0183 ppm	0.0405 ppm	0.0001 ppm	74.3658 ppm
Concentration per Run 1	-0.0003 ppm	0.0493 ppm	-0.0007 ppm	0.0182 ppm	0.0405 ppm	0.0000 ppm	74.8761 ppm
Concentration per Run 2	0.0006 ppm	0.0372 ppm	-0.0003 ppm	0.0184 ppm	0.0406 ppm	0.0001 ppm	74.3211 ppm
Concentration per Run 3	0.0005 ppm	0.0428 ppm	0.0008 ppm	0.0182 ppm	0.0404 ppm	0.0000 ppm	73.9000 ppm
Concentration RSD	195.2 %	14.0 %	906.4 %	0.6 %	0.3 %	77.5 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	-0.0001 ppm	0.0015 ppm	0.0011 ppm	0.0011 ppm	0.4605 ppm	0.0037 ppm
Concentration per Run 1	-0.0002 ppm	-0.0002 ppm	0.0015 ppm	0.0013 ppm	0.0018 ppm	0.4607 ppm	0.0030 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0017 ppm	0.0010 ppm	0.0011 ppm	0.4250 ppm	0.0046 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0010 ppm	0.0004 ppm	0.4957 ppm	0.0036 ppm
Concentration RSD	13.2 %	109.0 %	11.0 %	14.5 %	63.9 %	7.7 %	20.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0812 ppm	0.0002 ppm	0.0005 ppm	145.4907 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.0851 ppm	0.0000 ppm	0.0004 ppm	146.6444 ppm	0.0000 ppm	-0.0003 ppm	-0.0010 ppm
Concentration per Run 2	0.0805 ppm	0.0004 ppm	0.0004 ppm	144.5210 ppm	-0.0003 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0779 ppm	0.0002 ppm	0.0006 ppm	145.3067 ppm	0.0002 ppm	0.0002 ppm	-0.0012 ppm
Concentration RSD	4.5 %	100.4 %	25.4 %	0.7 %	2,852.0 %	239.2 %	100.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	2.3369 ppm	0.0014 ppm	0.1705 ppm	-0.0001 ppm	-0.0029 ppm	0.0011 ppm
Concentration per Run 1	0.0024 ppm	2.3319 ppm	0.0012 ppm	0.1716 ppm	-0.0001 ppm	-0.0029 ppm	0.0013 ppm
Concentration per Run 2	-0.0028 ppm	2.3414 ppm	0.0014 ppm	0.1702 ppm	-0.0003 ppm	-0.0036 ppm	0.0009 ppm
Concentration per Run 3	-0.0010 ppm	2.3373 ppm	0.0017 ppm	0.1697 ppm	0.0001 ppm	-0.0021 ppm	0.0011 ppm
Concentration RSD	570.5 %	0.2 %	15.9 %	0.6 %	222.0 %	26.1 %	18.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	92.6772 %	98.7645 %	93.3981 %	96.4729 %	91.5157 %	96.9062 %
Concentration per Run 1	0.0006 ppm	91.9967 %	98.6817 %	93.4897 %	95.6147 %	91.6446 %	96.7762 %
Concentration per Run 2	0.0006 ppm	92.7315 %	99.0200 %	93.1542 %	96.8704 %	91.3915 %	97.0900 %
Concentration per Run 3	0.0004 ppm	93.3033 %	98.5918 %	93.5506 %	96.9336 %	91.5109 %	96.8523 %
Concentration RSD	17.0 %	0.7 %	0.2 %	0.2 %	0.8 %	0.1 %	0.2 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: WG2036987-1 WG2036987
Analysis started at: 3/7/2025 1:11:51 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0053 ppm	-0.0011 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0126 ppm
Concentration per Run 1	-0.0002 ppm	0.0069 ppm	-0.0013 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 2	0.0005 ppm	-0.0009 ppm	-0.0019 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0118 ppm
Concentration per Run 3	0.0000 ppm	0.0098 ppm	-0.0002 ppm	-0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0165 ppm
Recovery Percentage 1	1.858 %	5.278 %	-22.498 %	-2.319 %	-0.403 %	0.117 %	12.613 %
Concentration RSD	267.7 %	104.6 %	76.6 %	51.5 %	840.7 %	248.8 %	27.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0013 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm	-0.0081 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm	-0.0015 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0058 ppm	-0.0012 ppm
Recovery Percentage 1	-0.058 %	-0.404 %	-0.072 %	2.248 %	0.809 %	-0.051 %	-7.049 %
Concentration RSD	397.6 %	98.9 %	3,155.3 %	35.6 %	181.0 %	543.5 %	59.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0063 ppm	0.0004 ppm	0.0006 ppm	-0.0015 ppm
Concentration per Run 1	-0.0009 ppm	-0.0001 ppm	-0.0001 ppm	0.0119 ppm	0.0004 ppm	0.0006 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0005 ppm	0.0003 ppm	-0.0014 ppm
Concentration per Run 3	0.0036 ppm	0.0000 ppm	-0.0001 ppm	0.0057 ppm	0.0003 ppm	0.0009 ppm	-0.0024 ppm
Recovery Percentage 1	0.758 %	1.250 %	-0.249 %	0.314 %	1.719 %	5.998 %	-3.012 %
Concentration RSD	330.8 %	203.1 %	23.0 %	85.7 %	28.5 %	56.5 %	56.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.0018 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0011 ppm	0.0016 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 2	-0.0018 ppm	0.0022 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0024 ppm	0.0016 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-1.422 %	0.363 %	0.221 %	-1.179 %	0.074 %	-1.648 %	-0.926 %
Concentration RSD	1,591.3 %	18.0 %	242.9 %	62.9 %	3,290.9 %	66.0 %	112.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	98.7618 %	108.7205 %	102.1850 %	101.1536 %	107.0104 %	105.2818 %
Concentration per Run 1	-0.0001 ppm	100.0376 %	109.1207 %	102.5726 %	100.7902 %	107.1155 %	105.6516 %
Concentration per Run 2	0.0000 ppm	98.3691 %	108.5844 %	102.0353 %	101.3618 %	107.1875 %	104.6852 %
Concentration per Run 3	0.0000 ppm	97.8786 %	108.4563 %	101.9472 %	101.3089 %	106.7282 %	105.5086 %
Recovery Percentage 1	-0.397 %						
Concentration RSD	203.4 %	1.1 %	0.3 %	0.3 %	0.3 %	0.2 %	0.5 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2036987-2 WG2036987
Analysis started at: 3/7/2025 1:18:24 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0545 ppm	2.1173 ppm	0.1164 ppm	0.9496 ppm	2.0543 ppm	0.0499 ppm	10.0609 ppm
Concentration per Run 1	0.0548 ppm	2.1101 ppm	0.1151 ppm	0.9456 ppm	2.0340 ppm	0.0500 ppm	10.0884 ppm
Concentration per Run 2	0.0550 ppm	2.1274 ppm	0.1154 ppm	0.9448 ppm	2.0489 ppm	0.0500 ppm	10.0371 ppm
Concentration per Run 3	0.0537 ppm	2.1144 ppm	0.1186 ppm	0.9585 ppm	2.0799 ppm	0.0497 ppm	10.0573 ppm
Concentration RSD	1.3 %	0.4 %	1.6 %	0.8 %	1.1 %	0.3 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0530 ppm	0.4945 ppm	0.2077 ppm	0.2609 ppm	1.0569 ppm	10.5828 ppm	-0.0005 ppm
Concentration per Run 1	0.0526 ppm	0.4920 ppm	0.2088 ppm	0.2618 ppm	1.0545 ppm	10.6359 ppm	0.0007 ppm
Concentration per Run 2	0.0527 ppm	0.4918 ppm	0.2083 ppm	0.2631 ppm	1.0600 ppm	10.5661 ppm	-0.0014 ppm
Concentration per Run 3	0.0536 ppm	0.4996 ppm	0.2061 ppm	0.2579 ppm	1.0562 ppm	10.5465 ppm	-0.0009 ppm
Concentration RSD	1.0 %	0.9 %	0.7 %	1.0 %	0.3 %	0.4 %	202.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.9524 ppm	0.5221 ppm	0.8868 ppm	9.8685 ppm	0.5266 ppm	0.4831 ppm	0.5038 ppm
Concentration per Run 1	11.0274 ppm	0.5233 ppm	0.8722 ppm	9.9237 ppm	0.5244 ppm	0.4806 ppm	0.5005 ppm
Concentration per Run 2	10.9903 ppm	0.5222 ppm	0.8839 ppm	9.8584 ppm	0.5242 ppm	0.4800 ppm	0.4989 ppm
Concentration per Run 3	10.8396 ppm	0.5207 ppm	0.9044 ppm	9.8235 ppm	0.5311 ppm	0.4887 ppm	0.5121 ppm
Concentration RSD	0.9 %	0.3 %	1.8 %	0.5 %	0.7 %	1.0 %	1.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1112 ppm	1.1305 ppm	0.9167 ppm	0.9602 ppm	1.0330 ppm	0.1183 ppm	0.5308 ppm
Concentration per Run 1	0.1116 ppm	1.1241 ppm	0.9108 ppm	0.9654 ppm	1.0392 ppm	0.1185 ppm	0.5326 ppm
Concentration per Run 2	0.1090 ppm	1.1271 ppm	0.9129 ppm	0.9606 ppm	1.0372 ppm	0.1165 ppm	0.5334 ppm
Concentration per Run 3	0.1131 ppm	1.1404 ppm	0.9265 ppm	0.9547 ppm	1.0227 ppm	0.1199 ppm	0.5266 ppm
Concentration RSD	1.9 %	0.8 %	0.9 %	0.6 %	0.9 %	1.5 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5186 ppm	97.6678 %	106.3338 %	99.0514 %	100.4475 %	102.8632 %	102.0396 %
Concentration per Run 1	0.5157 ppm	98.2965 %	106.9865 %	99.4396 %	99.9797 %	103.3261 %	101.2609 %
Concentration per Run 2	0.5161 ppm	97.9857 %	106.1143 %	99.4933 %	100.5988 %	103.3021 %	101.8629 %
Concentration per Run 3	0.5238 ppm	96.7212 %	105.9005 %	98.2212 %	100.7639 %	101.9615 %	102.9949 %
Concentration RSD	0.9 %	0.9 %	0.5 %	0.7 %	0.4 %	0.8 %	0.9 %

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Sample: L2511810-01 WG2036987
Analysis started at: 3/7/2025 1:24:35 PM
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Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0584 ppm	0.0018 ppm	0.3250 ppm	0.0239 ppm	0.0000 ppm	280.1895 ppm
Concentration per Run 1	0.0004 ppm	0.0521 ppm	0.0025 ppm	0.3259 ppm	0.0238 ppm	0.0000 ppm	274.8113 ppm
Concentration per Run 2	-0.0003 ppm	0.0645 ppm	0.0022 ppm	0.3263 ppm	0.0238 ppm	0.0000 ppm	285.5999 ppm
Concentration per Run 3	0.0000 ppm	0.0585 ppm	0.0007 ppm	0.3229 ppm	0.0241 ppm	0.0000 ppm	280.1574 ppm
Concentration RSD	941.5 %	10.7 %	54.4 %	0.6 %	0.7 %	288.6 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0007 ppm	0.0004 ppm	0.0006 ppm	0.0250 ppm	0.0837 ppm	12.9216 ppm	0.0626 ppm
Concentration per Run 1	-0.0007 ppm	0.0004 ppm	0.0007 ppm	0.0251 ppm	0.0848 ppm	12.8390 ppm	0.0616 ppm
Concentration per Run 2	-0.0007 ppm	0.0004 ppm	0.0006 ppm	0.0254 ppm	0.0817 ppm	12.9488 ppm	0.0636 ppm
Concentration per Run 3	-0.0007 ppm	0.0004 ppm	0.0004 ppm	0.0247 ppm	0.0845 ppm	12.9771 ppm	0.0625 ppm
Concentration RSD	3.7 %	4.9 %	29.8 %	1.4 %	2.0 %	0.6 %	1.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	33.3365 ppm	0.2196 ppm	0.0133 ppm	80.8615 ppm	0.0005 ppm	0.0005 ppm	0.0348 ppm
Concentration per Run 1	33.4312 ppm	0.2182 ppm	0.0137 ppm	80.5921 ppm	0.0004 ppm	0.0008 ppm	0.0342 ppm
Concentration per Run 2	33.3022 ppm	0.2207 ppm	0.0132 ppm	81.1133 ppm	0.0006 ppm	0.0007 ppm	0.0368 ppm
Concentration per Run 3	33.2762 ppm	0.2199 ppm	0.0131 ppm	80.8789 ppm	0.0006 ppm	0.0000 ppm	0.0335 ppm
Concentration RSD	0.2 %	0.6 %	2.5 %	0.3 %	24.2 %	79.4 %	5.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0023 ppm	4.1421 ppm	0.0005 ppm	3.1721 ppm	-0.0001 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	0.0035 ppm	4.1532 ppm	0.0008 ppm	3.1396 ppm	0.0001 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	4.1522 ppm	0.0001 ppm	3.1963 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0032 ppm	4.1209 ppm	0.0007 ppm	3.1805 ppm	-0.0002 ppm	0.0014 ppm	0.0001 ppm
Concentration RSD	81.8 %	0.4 %	71.6 %	0.9 %	189.6 %	86.8 %	44.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3579 ppm	95.8836 %	99.1712 %	92.1213 %	100.2238 %	90.3769 %	96.9339 %
Concentration per Run 1	0.3598 ppm	96.4525 %	98.6469 %	91.7312 %	100.6486 %	89.9799 %	96.5070 %
Concentration per Run 2	0.3587 ppm	95.4531 %	99.3181 %	91.9148 %	99.7580 %	90.1818 %	97.0766 %
Concentration per Run 3	0.3552 ppm	95.7452 %	99.5486 %	92.7181 %	100.2648 %	90.9690 %	97.2181 %
Concentration RSD	0.7 %	0.5 %	0.5 %	0.6 %	0.4 %	0.6 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511960-01 WG2036987
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Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0062 ppm	-0.0012 ppm	0.0147 ppm	0.0040 ppm	0.0000 ppm	1.0463 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0019 ppm	0.0146 ppm	0.0041 ppm	0.0000 ppm	1.0540 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0016 ppm	0.0146 ppm	0.0039 ppm	0.0001 ppm	1.0437 ppm
Concentration per Run 3	0.0001 ppm	0.0179 ppm	0.0000 ppm	0.0149 ppm	0.0040 ppm	0.0000 ppm	1.0412 ppm
Concentration RSD	47,156.6 %	162.0 %	86.0 %	1.1 %	3.4 %	473.4 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0013 ppm	0.0058 ppm	0.0207 ppm	1.0106 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0011 ppm	0.0059 ppm	0.0199 ppm	1.0171 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0014 ppm	0.0059 ppm	0.0206 ppm	1.0110 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0015 ppm	0.0055 ppm	0.0216 ppm	1.0036 ppm	-0.0007 ppm
Concentration RSD	27.5 %	53.6 %	13.2 %	4.0 %	4.3 %	0.7 %	609.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4259 ppm	0.0007 ppm	0.0002 ppm	81.3124 ppm	0.0008 ppm	0.0015 ppm	0.0008 ppm
Concentration per Run 1	0.4267 ppm	0.0006 ppm	0.0003 ppm	82.4349 ppm	0.0006 ppm	0.0020 ppm	0.0014 ppm
Concentration per Run 2	0.4253 ppm	0.0009 ppm	0.0001 ppm	81.1317 ppm	0.0009 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 3	0.4256 ppm	0.0006 ppm	0.0002 ppm	80.3707 ppm	0.0008 ppm	0.0019 ppm	0.0010 ppm
Concentration RSD	0.2 %	24.9 %	46.3 %	1.3 %	22.2 %	52.5 %	85.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	**23.8113 [SIC 100]**	0.0002 ppm	0.0066 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0019 ppm	23.9407 ppm	0.0003 ppm	0.0067 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	-0.0026 ppm	23.7414 ppm	0.0002 ppm	0.0066 ppm	0.0000 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0023 ppm	23.7518 ppm	0.0000 ppm	0.0064 ppm	0.0001 ppm	-0.0009 ppm	0.0001 ppm
Concentration RSD	350.9 %	0.5 %	103.3 %	2.3 %	175.5 %	91.8 %	268.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0582 ppm	98.2316 %	104.5981 %	97.9525 %	100.9940 %	100.2943 %	102.5265 %
Concentration per Run 1	0.0586 ppm	98.1321 %	103.9936 %	97.7635 %	100.1654 %	99.6949 %	101.9667 %
Concentration per Run 2	0.0580 ppm	98.2926 %	104.5330 %	98.0803 %	101.0161 %	100.6531 %	102.9763 %
Concentration per Run 3	0.0581 ppm	98.2700 %	105.2679 %	98.0135 %	101.8006 %	100.5348 %	102.6365 %
Concentration RSD	0.6 %	0.1 %	0.6 %	0.2 %	0.8 %	0.5 %	0.5 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511114-01 WG2036987
Analysis started at: 3/7/2025 1:37:31 PM
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Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0301 ppm	0.0012 ppm	0.5943 ppm	0.0887 ppm	0.0000 ppm	35.7041 ppm
Concentration per Run 1	0.0006 ppm	0.0330 ppm	0.0023 ppm	0.5906 ppm	0.0882 ppm	0.0000 ppm	35.7304 ppm
Concentration per Run 2	0.0004 ppm	0.0217 ppm	0.0019 ppm	0.5956 ppm	0.0888 ppm	0.0000 ppm	35.7484 ppm
Concentration per Run 3	0.0002 ppm	0.0356 ppm	-0.0004 ppm	0.5967 ppm	0.0891 ppm	0.0001 ppm	35.6336 ppm
Concentration RSD	56.3 %	24.6 %	116.6 %	0.5 %	0.5 %	146.8 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0018 ppm	0.0020 ppm	0.0017 ppm	0.5120 ppm	2.0930 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	0.0018 ppm	0.0016 ppm	0.5110 ppm	2.0564 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0017 ppm	0.0018 ppm	0.0017 ppm	0.5161 ppm	2.1285 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0019 ppm	0.0023 ppm	0.0019 ppm	0.5089 ppm	2.0941 ppm	0.0012 ppm
Concentration RSD	52.8 %	8.3 %	15.4 %	8.4 %	0.7 %	1.7 %	103.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8525 ppm	0.0625 ppm	-0.0001 ppm	41.4738 ppm	0.0049 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	1.8432 ppm	0.0623 ppm	-0.0001 ppm	41.5063 ppm	0.0047 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	1.8538 ppm	0.0626 ppm	0.0000 ppm	41.5965 ppm	0.0051 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	1.8605 ppm	0.0625 ppm	-0.0002 ppm	41.3187 ppm	0.0049 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	0.5 %	0.3 %	139.2 %	0.3 %	3.9 %	1,884.1 %	1,470.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0008 ppm	3.4260 ppm	0.0001 ppm	0.0675 ppm	0.0008 ppm	-0.0009 ppm	0.0008 ppm
Concentration per Run 1	0.0003 ppm	3.4017 ppm	0.0000 ppm	0.0672 ppm	0.0006 ppm	-0.0001 ppm	0.0008 ppm
Concentration per Run 2	-0.0002 ppm	3.4353 ppm	0.0003 ppm	0.0679 ppm	0.0011 ppm	-0.0014 ppm	0.0011 ppm
Concentration per Run 3	-0.0025 ppm	3.4411 ppm	0.0001 ppm	0.0675 ppm	0.0008 ppm	-0.0012 ppm	0.0005 ppm
Concentration RSD	195.0 %	0.6 %	119.3 %	0.5 %	31.6 %	77.5 %	38.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0151 ppm	98.6175 %	104.4635 %	97.6906 %	101.5107 %	100.0268 %	101.3728 %
Concentration per Run 1	0.0149 ppm	99.2782 %	104.4771 %	98.1991 %	101.6927 %	100.8033 %	101.6272 %
Concentration per Run 2	0.0151 ppm	98.8740 %	104.7077 %	97.6338 %	101.3764 %	99.7140 %	101.4582 %
Concentration per Run 3	0.0153 ppm	97.7002 %	104.2058 %	97.2389 %	101.4631 %	99.5630 %	101.0329 %
Concentration RSD	1.4 %	0.8 %	0.2 %	0.5 %	0.2 %	0.7 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2036987-3 WG2036987
Analysis started at: 3/7/2025 1:43:50 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0532 ppm	2.0869 ppm	0.1184 ppm	1.5582 ppm	2.1109 ppm	0.0493 ppm	45.0458 ppm
Concentration per Run 1	0.0533 ppm	2.0795 ppm	0.1176 ppm	1.5653 ppm	2.0829 ppm	0.0489 ppm	44.7135 ppm
Concentration per Run 2	0.0533 ppm	2.0957 ppm	0.1191 ppm	1.5538 ppm	2.1222 ppm	0.0495 ppm	45.1727 ppm
Concentration per Run 3	0.0531 ppm	2.0855 ppm	0.1185 ppm	1.5556 ppm	2.1276 ppm	0.0496 ppm	45.2511 ppm
Concentration RSD	0.2 %	0.4 %	0.7 %	0.4 %	1.2 %	0.8 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0524 ppm	0.4967 ppm	0.2053 ppm	0.2603 ppm	1.5396 ppm	12.7979 ppm	0.0015 ppm
Concentration per Run 1	0.0526 ppm	0.4988 ppm	0.2044 ppm	0.2590 ppm	1.5248 ppm	12.6812 ppm	0.0016 ppm
Concentration per Run 2	0.0524 ppm	0.4954 ppm	0.2045 ppm	0.2597 ppm	1.5415 ppm	12.8529 ppm	0.0018 ppm
Concentration per Run 3	0.0522 ppm	0.4957 ppm	0.2068 ppm	0.2620 ppm	1.5524 ppm	12.8595 ppm	0.0011 ppm
Concentration RSD	0.4 %	0.4 %	0.7 %	0.6 %	0.9 %	0.8 %	23.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.4310 ppm	0.5726 ppm	0.8978 ppm	50.8276 ppm	0.5281 ppm	0.4771 ppm	0.5165 ppm
Concentration per Run 1	12.3812 ppm	0.5679 ppm	0.8921 ppm	50.4311 ppm	0.5305 ppm	0.4786 ppm	0.5163 ppm
Concentration per Run 2	12.4125 ppm	0.5728 ppm	0.8968 ppm	50.9327 ppm	0.5275 ppm	0.4751 ppm	0.5150 ppm
Concentration per Run 3	12.4994 ppm	0.5772 ppm	0.9045 ppm	51.1190 ppm	0.5263 ppm	0.4777 ppm	0.5183 ppm
Concentration RSD	0.5 %	0.8 %	0.7 %	0.7 %	0.4 %	0.4 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1124 ppm	4.5950 ppm	0.9185 ppm	1.0108 ppm	1.0221 ppm	0.1168 ppm	0.5261 ppm
Concentration per Run 1	0.1111 ppm	4.6129 ppm	0.9224 ppm	1.0011 ppm	1.0193 ppm	0.1169 ppm	0.5254 ppm
Concentration per Run 2	0.1111 ppm	4.5842 ppm	0.9157 ppm	1.0134 ppm	1.0197 ppm	0.1167 ppm	0.5244 ppm
Concentration per Run 3	0.1149 ppm	4.5878 ppm	0.9174 ppm	1.0180 ppm	1.0274 ppm	0.1167 ppm	0.5286 ppm
Concentration RSD	2.0 %	0.3 %	0.4 %	0.9 %	0.4 %	0.1 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5337 ppm	98.1468 %	103.1151 %	96.7111 %	101.3564 %	99.0622 %	100.2090 %
Concentration per Run 1	0.5356 ppm	99.5775 %	103.0755 %	96.5432 %	102.3378 %	98.8004 %	100.6924 %
Concentration per Run 2	0.5340 ppm	97.5218 %	103.3300 %	96.7754 %	100.9631 %	99.1081 %	100.3127 %
Concentration per Run 3	0.5315 ppm	97.3412 %	102.9399 %	96.8147 %	100.7684 %	99.2782 %	99.6220 %
Concentration RSD	0.4 %	1.3 %	0.2 %	0.2 %	0.8 %	0.2 %	0.5 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2036987-4 WG2036987
Analysis started at: 3/7/2025 1:50:00 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0324 ppm	-0.0004 ppm	0.5919 ppm	0.0873 ppm	0.0000 ppm	35.7419 ppm
Concentration per Run 1	0.0006 ppm	0.0249 ppm	-0.0004 ppm	0.5895 ppm	0.0865 ppm	0.0000 ppm	35.7671 ppm
Concentration per Run 2	0.0003 ppm	0.0467 ppm	-0.0001 ppm	0.5926 ppm	0.0875 ppm	0.0001 ppm	35.7209 ppm
Concentration per Run 3	-0.0003 ppm	0.0256 ppm	-0.0007 ppm	0.5935 ppm	0.0878 ppm	0.0000 ppm	35.7377 ppm
Concentration RSD	235.1 %	38.3 %	74.5 %	0.4 %	0.8 %	162.8 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0019 ppm	0.0020 ppm	0.0018 ppm	0.5163 ppm	2.1463 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0019 ppm	0.0021 ppm	0.0019 ppm	0.5174 ppm	2.1553 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0018 ppm	0.0017 ppm	0.0019 ppm	0.5141 ppm	2.1667 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0018 ppm	0.0021 ppm	0.0018 ppm	0.5175 ppm	2.1169 ppm	0.0016 ppm
Concentration RSD	316.9 %	2.9 %	11.4 %	4.1 %	0.4 %	1.2 %	75.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8374 ppm	0.0627 ppm	0.0018 ppm	42.1766 ppm	0.0047 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	1.8458 ppm	0.0632 ppm	0.0019 ppm	42.2958 ppm	0.0045 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 2	1.8303 ppm	0.0622 ppm	0.0018 ppm	42.0663 ppm	0.0051 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	1.8362 ppm	0.0627 ppm	0.0016 ppm	42.1677 ppm	0.0045 ppm	-0.0001 ppm	0.0005 ppm
Concentration RSD	0.4 %	0.7 %	8.6 %	0.3 %	7.0 %	303.3 %	195.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	3.3936 ppm	0.0008 ppm	0.0686 ppm	0.0009 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 1	-0.0005 ppm	3.3863 ppm	0.0006 ppm	0.0687 ppm	0.0009 ppm	-0.0019 ppm	0.0009 ppm
Concentration per Run 2	0.0005 ppm	3.3923 ppm	0.0009 ppm	0.0685 ppm	0.0011 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 3	-0.0003 ppm	3.4020 ppm	0.0008 ppm	0.0685 ppm	0.0007 ppm	-0.0019 ppm	0.0011 ppm
Concentration RSD	651.7 %	0.2 %	20.3 %	0.2 %	23.3 %	71.1 %	10.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0149 ppm	98.7184 %	104.4253 %	97.8025 %	99.7665 %	99.9742 %	101.4125 %
Concentration per Run 1	0.0149 ppm	99.4689 %	103.9817 %	97.8357 %	99.4788 %	100.3511 %	100.8940 %
Concentration per Run 2	0.0148 ppm	98.5802 %	104.5886 %	98.2202 %	100.0379 %	100.0069 %	101.6815 %
Concentration per Run 3	0.0151 ppm	98.1060 %	104.7057 %	97.3516 %	99.7828 %	99.5645 %	101.6621 %
Concentration RSD	0.9 %	0.7 %	0.4 %	0.4 %	0.3 %	0.4 %	0.4 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: WG2036987-5 WG2036987
Analysis started at: 3/7/2025 1:56:19 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0373 ppm	1.9999 ppm	0.1215 ppm	1.5415 ppm	2.0075 ppm	0.0479 ppm	44.9265 ppm
Concentration per Run 1	0.0376 ppm	1.9919 ppm	0.1229 ppm	1.5462 ppm	1.9783 ppm	0.0477 ppm	44.7347 ppm
Concentration per Run 2	0.0367 ppm	2.0034 ppm	0.1208 ppm	1.5366 ppm	2.0204 ppm	0.0482 ppm	45.2050 ppm
Concentration per Run 3	0.0377 ppm	2.0044 ppm	0.1208 ppm	1.5418 ppm	2.0236 ppm	0.0478 ppm	44.8398 ppm
Concentration RSD	1.4 %	0.3 %	1.0 %	0.3 %	1.3 %	0.6 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0507 ppm	0.4735 ppm	0.1947 ppm	0.2463 ppm	1.4964 ppm	12.8916 ppm	0.0008 ppm
Concentration per Run 1	0.0510 ppm	0.4755 ppm	0.1946 ppm	0.2467 ppm	1.4896 ppm	12.8544 ppm	0.0021 ppm
Concentration per Run 2	0.0505 ppm	0.4723 ppm	0.1948 ppm	0.2458 ppm	1.5042 ppm	12.9491 ppm	0.0007 ppm
Concentration per Run 3	0.0507 ppm	0.4728 ppm	0.1945 ppm	0.2463 ppm	1.4956 ppm	12.8711 ppm	-0.0003 ppm
Concentration RSD	0.4 %	0.4 %	0.1 %	0.2 %	0.5 %	0.4 %	147.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.2673 ppm	0.5531 ppm	0.8884 ppm	51.0711 ppm	0.5029 ppm	0.4944 ppm	0.4795 ppm
Concentration per Run 1	12.2607 ppm	0.5510 ppm	0.8812 ppm	50.9343 ppm	0.5047 ppm	0.4965 ppm	0.4749 ppm
Concentration per Run 2	12.2516 ppm	0.5566 ppm	0.8864 ppm	51.3621 ppm	0.5009 ppm	0.4925 ppm	0.4794 ppm
Concentration per Run 3	12.2895 ppm	0.5516 ppm	0.8976 ppm	50.9169 ppm	0.5032 ppm	0.4941 ppm	0.4843 ppm
Concentration RSD	0.2 %	0.6 %	0.9 %	0.5 %	0.4 %	0.4 %	1.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1166 ppm	4.0277 ppm	0.9205 ppm	1.0183 ppm	1.0090 ppm	0.1206 ppm	0.4972 ppm
Concentration per Run 1	0.1165 ppm	4.0395 ppm	0.9240 ppm	1.0157 ppm	1.0083 ppm	0.1201 ppm	0.4976 ppm
Concentration per Run 2	0.1145 ppm	4.0172 ppm	0.9159 ppm	1.0237 ppm	1.0073 ppm	0.1207 ppm	0.4974 ppm
Concentration per Run 3	0.1187 ppm	4.0265 ppm	0.9216 ppm	1.0155 ppm	1.0113 ppm	0.1211 ppm	0.4964 ppm
Concentration RSD	1.8 %	0.3 %	0.5 %	0.5 %	0.2 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5098 ppm	96.9111 %	102.4510 %	95.9391 %	98.8890 %	98.2706 %	99.6712 %
Concentration per Run 1	0.5125 ppm	98.0823 %	102.5032 %	95.7336 %	99.2052 %	97.9182 %	99.8565 %
Concentration per Run 2	0.5073 ppm	96.3876 %	102.2440 %	95.9022 %	98.4257 %	98.6638 %	99.6332 %
Concentration per Run 3	0.5094 ppm	96.2635 %	102.6057 %	96.1815 %	99.0361 %	98.2297 %	99.5239 %
Concentration RSD	0.5 %	1.0 %	0.2 %	0.2 %	0.4 %	0.4 %	0.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2036987-6D5 WG2036987
Analysis started at: 3/7/2025 2:02:25 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0063 ppm	-0.0010 ppm	0.1193 ppm	0.0174 ppm	0.0000 ppm	7.0130 ppm
Concentration per Run 1	0.0001 ppm	0.0049 ppm	-0.0019 ppm	0.1202 ppm	0.0166 ppm	0.0000 ppm	6.8097 ppm
Concentration per Run 2	-0.0001 ppm	0.0036 ppm	0.0001 ppm	0.1186 ppm	0.0178 ppm	0.0001 ppm	7.0423 ppm
Concentration per Run 3	0.0001 ppm	0.0104 ppm	-0.0010 ppm	0.1189 ppm	0.0178 ppm	0.0000 ppm	7.1869 ppm
Concentration RSD	944.0 %	57.6 %	102.7 %	0.7 %	4.0 %	159.4 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm	0.1022 ppm	0.4050 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0008 ppm	0.0995 ppm	0.3983 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0008 ppm	0.1022 ppm	0.3887 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0010 ppm	0.1049 ppm	0.4281 ppm	0.0004 ppm
Concentration RSD	381.8 %	38.9 %	24.3 %	18.3 %	2.6 %	5.1 %	55.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.3857 ppm	0.0124 ppm	0.0018 ppm	8.0744 ppm	0.0013 ppm	0.0007 ppm	0.0042 ppm
Concentration per Run 1	0.3852 ppm	0.0118 ppm	0.0022 ppm	7.8620 ppm	0.0014 ppm	-0.0001 ppm	0.0053 ppm
Concentration per Run 2	0.3825 ppm	0.0128 ppm	0.0017 ppm	8.0847 ppm	0.0013 ppm	0.0005 ppm	0.0031 ppm
Concentration per Run 3	0.3895 ppm	0.0127 ppm	0.0015 ppm	8.2765 ppm	0.0012 ppm	0.0017 ppm	0.0043 ppm
Concentration RSD	0.9 %	4.3 %	20.7 %	2.6 %	7.0 %	127.5 %	25.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.6710 ppm	0.0013 ppm	0.0133 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.6764 ppm	0.0014 ppm	0.0128 ppm	0.0002 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 2	0.0018 ppm	0.6666 ppm	0.0016 ppm	0.0132 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	-0.0015 ppm	0.6700 ppm	0.0007 ppm	0.0138 ppm	0.0005 ppm	-0.0020 ppm	0.0001 ppm
Concentration RSD	2,243.5 %	0.7 %	36.1 %	3.5 %	43.4 %	91.0 %	101.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0036 ppm	100.8373 %	106.0365 %	99.1706 %	103.9541 %	104.1102 %	102.1618 %
Concentration per Run 1	0.0036 ppm	104.2015 %	106.4620 %	98.9770 %	106.3475 %	103.6474 %	102.5551 %
Concentration per Run 2	0.0036 ppm	100.5504 %	106.2059 %	99.4478 %	104.0614 %	104.6190 %	102.1204 %
Concentration per Run 3	0.0036 ppm	97.7602 %	105.4417 %	99.0869 %	101.4533 %	104.0643 %	101.8098 %
Concentration RSD	0.4 %	3.2 %	0.5 %	0.2 %	2.4 %	0.5 %	0.4 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 2:08:48 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5125 ppm	0.4838 ppm	0.4719 ppm	0.4804 ppm	0.4792 ppm	0.4658 ppm	0.4961 ppm
Concentration per Run 1	0.5118 ppm	0.4703 ppm	0.4739 ppm	0.4801 ppm	0.4644 ppm	0.4553 ppm	0.4808 ppm
Concentration per Run 2	0.5124 ppm	0.4918 ppm	0.4739 ppm	0.4832 ppm	0.4868 ppm	0.4698 ppm	0.5052 ppm
Concentration per Run 3	0.5134 ppm	0.4894 ppm	0.4678 ppm	0.4779 ppm	0.4864 ppm	0.4722 ppm	0.5022 ppm
Recovery Percentage 1	102.505 %	96.763 %	94.371 %	96.080 %	95.839 %	93.152 %	99.218 %
Concentration RSD	0.2 %	2.4 %	0.7 %	0.6 %	2.7 %	2.0 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4751 ppm	0.4811 ppm	0.4924 ppm	0.4844 ppm	0.4936 ppm	5.1266 ppm	0.4496 ppm
Concentration per Run 1	0.4752 ppm	0.4812 ppm	0.4920 ppm	0.4844 ppm	0.4786 ppm	4.9997 ppm	0.4388 ppm
Concentration per Run 2	0.4779 ppm	0.4842 ppm	0.4919 ppm	0.4834 ppm	0.4983 ppm	5.1944 ppm	0.4533 ppm
Concentration per Run 3	0.4723 ppm	0.4778 ppm	0.4932 ppm	0.4853 ppm	0.5039 ppm	5.1856 ppm	0.4567 ppm
Recovery Percentage 1	95.026 %	96.219 %	98.473 %	96.878 %	98.717 %	102.531 %	89.918 %
Concentration RSD	0.6 %	0.7 %	0.1 %	0.2 %	2.7 %	2.1 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5443 ppm	0.4805 ppm	0.4595 ppm	9.4092 ppm	0.5081 ppm	0.4633 ppm	0.4964 ppm
Concentration per Run 1	0.5439 ppm	0.4683 ppm	0.4581 ppm	9.2017 ppm	0.5084 ppm	0.4631 ppm	0.4971 ppm
Concentration per Run 2	0.5454 ppm	0.4849 ppm	0.4622 ppm	9.4929 ppm	0.5111 ppm	0.4649 ppm	0.4991 ppm
Concentration per Run 3	0.5436 ppm	0.4882 ppm	0.4582 ppm	9.5329 ppm	0.5049 ppm	0.4619 ppm	0.4930 ppm
Recovery Percentage 1	108.853 %	96.094 %	91.899 %	94.092 %	101.622 %	92.659 %	99.284 %
Concentration RSD	0.2 %	2.2 %	0.5 %	1.9 %	0.6 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4642 ppm	5.5156 ppm	0.4743 ppm	0.4714 ppm	0.5185 ppm	0.5094 ppm	0.5014 ppm
Concentration per Run 1	0.4643 ppm	5.5200 ppm	0.4750 ppm	0.4610 ppm	0.5179 ppm	0.5088 ppm	0.5020 ppm
Concentration per Run 2	0.4676 ppm	5.5523 ppm	0.4769 ppm	0.4754 ppm	0.5189 ppm	0.5123 ppm	0.5001 ppm
Concentration per Run 3	0.4608 ppm	5.4744 ppm	0.4711 ppm	0.4777 ppm	0.5186 ppm	0.5072 ppm	0.5022 ppm
Recovery Percentage 1	92.845 %	105.058 %	94.868 %	94.276 %	103.692 %	101.886 %	100.289 %
Concentration RSD	0.7 %	0.7 %	0.6 %	1.9 %	0.1 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4935 ppm	98.7254 %	105.5477 %	99.0394 %	101.7926 %	103.0063 %	101.7054 %
Concentration per Run 1	0.4946 ppm	101.5427 %	105.3989 %	98.9386 %	104.0453 %	103.0169 %	101.7529 %
Concentration per Run 2	0.4958 ppm	97.3282 %	105.4623 %	98.5380 %	101.0198 %	102.5465 %	101.3284 %
Concentration per Run 3	0.4903 ppm	97.3054 %	105.7820 %	99.6416 %	100.3128 %	103.4556 %	102.0350 %
Recovery Percentage 1	98.710 %						
Concentration RSD	0.6 %	2.5 %	0.2 %	0.6 %	1.9 %	0.4 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 2:15:02 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0032 ppm	-0.0002 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 1	-0.0002 ppm	0.0060 ppm	0.0010 ppm	0.0014 ppm	-0.0004 ppm	0.0001 ppm	0.0070 ppm
Concentration per Run 2	0.0001 ppm	0.0077 ppm	-0.0005 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 3	0.0002 ppm	-0.0041 ppm	-0.0010 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0048 ppm
Recovery Percentage 1	0.574 %	3.205 %	-3.323 %	5.203 %	-1.706 %	0.642 %	3.486 %
Concentration RSD	516.9 %	199.9 %	612.3 %	10.1 %	132.4 %	107.3 %	126.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	-0.0008 ppm	0.0140 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0065 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0017 ppm	0.0345 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0009 ppm	0.0011 ppm	0.0011 ppm
Recovery Percentage 1	0.611 %	-0.590 %	-0.888 %	4.885 %	-1.636 %	0.562 %	1.702 %
Concentration RSD	44.5 %	28.1 %	133.2 %	18.5 %	116.6 %	127.7 %	618.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0268 ppm	0.0004 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 1	-0.0016 ppm	0.0001 ppm	0.0005 ppm	0.0281 ppm	0.0004 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 2	0.0015 ppm	0.0001 ppm	0.0006 ppm	0.0277 ppm	0.0004 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0245 ppm	0.0003 ppm	-0.0001 ppm	0.0007 ppm
Recovery Percentage 1	-0.023 %	1.148 %	0.962 %	1.338 %	1.403 %	4.186 %	0.572 %
Concentration RSD	6,671.5 %	17.8 %	24.6 %	7.3 %	10.5 %	104.7 %	223.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	-0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	-0.0006 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0014 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	-0.0009 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-0.782 %	-0.190 %	0.447 %	0.966 %	-0.494 %	3.853 %	0.166 %
Concentration RSD	504.8 %	45.0 %	85.5 %	53.8 %	648.9 %	53.0 %	779.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	97.3031 %	106.4689 %	99.5535 %	98.7230 %	103.9656 %	101.2199 %
Concentration per Run 1	0.0001 ppm	96.9517 %	106.5426 %	99.6144 %	98.5302 %	103.9746 %	101.3937 %
Concentration per Run 2	0.0000 ppm	97.5285 %	106.4481 %	99.6660 %	99.0085 %	104.2493 %	101.0692 %
Concentration per Run 3	0.0001 ppm	97.4293 %	106.4160 %	99.3800 %	98.6303 %	103.6728 %	101.1967 %
Recovery Percentage 1	1.658 %						
Concentration RSD	82.0 %	0.3 %	0.1 %	0.2 %	0.3 %	0.3 %	0.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511313-01D2 WG2036900
Analysis started at: 3/7/2025 2:35:48 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	8.8832 ppm	0.0033 ppm	0.0598 ppm	0.0858 ppm	0.0002 ppm	141.8775 ppm
Concentration per Run 1	0.0006 ppm	8.9286 ppm	0.0039 ppm	0.0599 ppm	0.0858 ppm	0.0002 ppm	142.4738 ppm
Concentration per Run 2	0.0004 ppm	8.9078 ppm	0.0043 ppm	0.0592 ppm	0.0862 ppm	0.0001 ppm	142.4199 ppm
Concentration per Run 3	0.0012 ppm	8.8132 ppm	0.0017 ppm	0.0602 ppm	0.0855 ppm	0.0002 ppm	140.7390 ppm
Concentration RSD	54.7 %	0.7 %	42.1 %	0.9 %	0.4 %	27.2 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0035 ppm	0.0219 ppm	0.0517 ppm	7.5349 ppm	1.6058 ppm	0.0032 ppm
Concentration per Run 1	0.0007 ppm	0.0036 ppm	0.0219 ppm	0.0518 ppm	7.5608 ppm	1.6382 ppm	0.0030 ppm
Concentration per Run 2	0.0007 ppm	0.0034 ppm	0.0217 ppm	0.0515 ppm	7.5600 ppm	1.6128 ppm	0.0021 ppm
Concentration per Run 3	0.0007 ppm	0.0035 ppm	0.0219 ppm	0.0518 ppm	7.4838 ppm	1.5663 ppm	0.0045 ppm
Concentration RSD	4.0 %	3.1 %	0.7 %	0.3 %	0.6 %	2.3 %	37.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5643 ppm	0.2470 ppm	0.0007 ppm	5.1832 ppm	0.0240 ppm	0.0802 ppm	0.0007 ppm
Concentration per Run 1	10.6296 ppm	0.2473 ppm	0.0007 ppm	5.2001 ppm	0.0237 ppm	0.0795 ppm	0.0009 ppm
Concentration per Run 2	10.5136 ppm	0.2482 ppm	0.0008 ppm	5.2004 ppm	0.0241 ppm	0.0808 ppm	0.0004 ppm
Concentration per Run 3	10.5496 ppm	0.2456 ppm	0.0006 ppm	5.1492 ppm	0.0242 ppm	0.0803 ppm	0.0010 ppm
Concentration RSD	0.6 %	0.5 %	14.0 %	0.6 %	1.2 %	0.8 %	43.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	4.9436 ppm	0.0124 ppm	0.7026 ppm	0.4154 ppm	-0.0008 ppm	0.1150 ppm
Concentration per Run 1	-0.0010 ppm	4.9162 ppm	0.0119 ppm	0.7042 ppm	0.4172 ppm	-0.0010 ppm	0.1155 ppm
Concentration per Run 2	0.0012 ppm	4.9447 ppm	0.0124 ppm	0.7052 ppm	0.4137 ppm	-0.0013 ppm	0.1144 ppm
Concentration per Run 3	-0.0004 ppm	4.9698 ppm	0.0128 ppm	0.6985 ppm	0.4153 ppm	-0.0001 ppm	0.1151 ppm
Concentration RSD	1,990.3 %	0.5 %	3.9 %	0.5 %	0.4 %	73.8 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1904 ppm	95.9446 %	104.6931 %	95.4727 %	98.7632 %	95.7778 %	99.4699 %
Concentration per Run 1	0.1896 ppm	96.3896 %	104.4585 %	95.8203 %	98.7302 %	96.1309 %	98.9921 %
Concentration per Run 2	0.1903 ppm	95.0800 %	104.8355 %	95.5980 %	98.1601 %	95.8324 %	99.6804 %
Concentration per Run 3	0.1913 ppm	96.3643 %	104.7852 %	95.0000 %	99.3993 %	95.3700 %	99.7372 %
Concentration RSD	0.4 %	0.8 %	0.2 %	0.4 %	0.6 %	0.4 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511313-02D2 WG2036900
Analysis started at: 3/7/2025 2:42:01 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	32.9524 ppm	0.0416 ppm	0.0167 ppm	0.7276 ppm	0.0029 ppm	221.6625 ppm
Concentration per Run 1	0.0019 ppm	32.0191 ppm	0.0428 ppm	0.0171 ppm	0.7095 ppm	0.0028 ppm	212.4431 ppm
Concentration per Run 2	0.0020 ppm	33.3055 ppm	0.0381 ppm	0.0165 ppm	0.7388 ppm	0.0029 ppm	224.6437 ppm
Concentration per Run 3	0.0015 ppm	33.5326 ppm	0.0440 ppm	0.0165 ppm	0.7345 ppm	0.0029 ppm	227.9007 ppm
Concentration RSD	15.2 %	2.5 %	7.4 %	2.2 %	2.2 %	2.3 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0008 ppm	0.0533 ppm	0.0491 ppm	0.1780 ppm	78.6471 ppm	3.9992 ppm	0.0214 ppm
Concentration per Run 1	-0.0008 ppm	0.0533 ppm	0.0496 ppm	0.1793 ppm	76.4220 ppm	3.8800 ppm	0.0203 ppm
Concentration per Run 2	-0.0008 ppm	0.0529 ppm	0.0491 ppm	0.1777 ppm	79.3806 ppm	4.0109 ppm	0.0227 ppm
Concentration per Run 3	-0.0009 ppm	0.0536 ppm	0.0487 ppm	0.1771 ppm	80.1387 ppm	4.1069 ppm	0.0212 ppm
Concentration RSD	1.2 %	0.7 %	0.9 %	0.7 %	2.5 %	2.8 %	5.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	32.5623 ppm	7.0705 ppm	0.0087 ppm	1.3840 ppm	0.1093 ppm	0.3267 ppm	0.0034 ppm
Concentration per Run 1	32.8629 ppm	6.8675 ppm	0.0088 ppm	1.3438 ppm	0.1095 ppm	0.3273 ppm	0.0036 ppm
Concentration per Run 2	32.5010 ppm	7.1335 ppm	0.0086 ppm	1.3965 ppm	0.1088 ppm	0.3250 ppm	0.0026 ppm
Concentration per Run 3	32.3230 ppm	7.2104 ppm	0.0086 ppm	1.4117 ppm	0.1096 ppm	0.3278 ppm	0.0041 ppm
Concentration RSD	0.8 %	2.5 %	0.8 %	2.6 %	0.4 %	0.4 %	22.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	2.4241 ppm	0.0124 ppm	0.6551 ppm	2.5242 ppm	0.0007 ppm	0.1108 ppm
Concentration per Run 1	0.0042 ppm	2.4414 ppm	0.0121 ppm	0.6352 ppm	2.5434 ppm	0.0025 ppm	0.1114 ppm
Concentration per Run 2	-0.0007 ppm	2.4036 ppm	0.0125 ppm	0.6614 ppm	2.5218 ppm	0.0000 ppm	0.1107 ppm
Concentration per Run 3	0.0025 ppm	2.4273 ppm	0.0126 ppm	0.6688 ppm	2.5075 ppm	-0.0003 ppm	0.1103 ppm
Concentration RSD	124.2 %	0.8 %	1.9 %	2.7 %	0.7 %	205.7 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3060 ppm	108.3814 %	114.4310 %	106.3703 %	101.1024 %	92.8776 %	98.7528 %
Concentration per Run 1	0.3064 ppm	110.5130 %	113.8898 %	106.5569 %	103.5615 %	92.9585 %	98.0084 %
Concentration per Run 2	0.3046 ppm	107.9621 %	114.8586 %	106.6729 %	100.9612 %	93.2141 %	99.0912 %
Concentration per Run 3	0.3071 ppm	106.6689 %	114.5447 %	105.8810 %	98.7846 %	92.4601 %	99.1588 %
Concentration RSD	0.4 %	1.8 %	0.4 %	0.4 %	2.4 %	0.4 %	0.7 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511313-03D2 WG2036900
Analysis started at: 3/7/2025 2:48:19 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	76.7215 ppm	0.0080 ppm	0.0011 ppm	0.7109 ppm	0.0010 ppm	28.4611 ppm
Concentration per Run 1	0.0026 ppm	75.9297 ppm	0.0089 ppm	0.0013 ppm	0.7023 ppm	0.0011 ppm	28.1847 ppm
Concentration per Run 2	0.0021 ppm	76.8894 ppm	0.0083 ppm	0.0013 ppm	0.7130 ppm	0.0010 ppm	28.4988 ppm
Concentration per Run 3	0.0026 ppm	77.3456 ppm	0.0068 ppm	0.0008 ppm	0.7173 ppm	0.0011 ppm	28.6998 ppm
Concentration RSD	12.6 %	0.9 %	13.2 %	27.2 %	1.1 %	5.0 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0019 ppm	0.0765 ppm	0.2306 ppm	0.1660 ppm	163.8901 ppm	48.1171 ppm	0.0789 ppm
Concentration per Run 1	-0.0020 ppm	0.0766 ppm	0.2319 ppm	0.1671 ppm	162.8472 ppm	47.5518 ppm	0.0765 ppm
Concentration per Run 2	-0.0020 ppm	0.0767 ppm	0.2298 ppm	0.1658 ppm	164.1588 ppm	48.2183 ppm	0.0789 ppm
Concentration per Run 3	-0.0019 ppm	0.0761 ppm	0.2301 ppm	0.1652 ppm	164.6642 ppm	48.5814 ppm	0.0814 ppm
Concentration RSD	2.0 %	0.4 %	0.5 %	0.6 %	0.6 %	1.1 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	41.1012 ppm	2.1904 ppm	0.0014 ppm	0.9825 ppm	0.1811 ppm	0.0343 ppm	0.0029 ppm
Concentration per Run 1	41.3293 ppm	2.1630 ppm	0.0015 ppm	0.9588 ppm	0.1820 ppm	0.0345 ppm	0.0048 ppm
Concentration per Run 2	41.1541 ppm	2.1959 ppm	0.0014 ppm	0.9925 ppm	0.1812 ppm	0.0342 ppm	0.0014 ppm
Concentration per Run 3	40.8202 ppm	2.2122 ppm	0.0011 ppm	0.9964 ppm	0.1801 ppm	0.0341 ppm	0.0026 ppm
Concentration RSD	0.6 %	1.1 %	16.6 %	2.1 %	0.5 %	0.5 %	59.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0031 ppm	2.3760 ppm	0.0083 ppm	0.0904 ppm	10.9950 ppm	0.0077 ppm	0.2463 ppm
Concentration per Run 1	-0.0016 ppm	2.3997 ppm	0.0081 ppm	0.0891 ppm	11.0474 ppm	0.0080 ppm	0.2479 ppm
Concentration per Run 2	-0.0043 ppm	2.3773 ppm	0.0084 ppm	0.0906 ppm	11.0496 ppm	0.0077 ppm	0.2458 ppm
Concentration per Run 3	-0.0034 ppm	2.3510 ppm	0.0085 ppm	0.0915 ppm	10.8881 ppm	0.0074 ppm	0.2451 ppm
Concentration RSD	45.2 %	1.0 %	2.7 %	1.4 %	0.8 %	3.4 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3443 ppm	114.3164 %	121.0481 %	113.8113 %	104.9442 %	99.1586 %	103.1621 %
Concentration per Run 1	0.3461 ppm	115.4389 %	120.4358 %	113.7626 %	105.9500 %	98.9844 %	102.7712 %
Concentration per Run 2	0.3445 ppm	114.5666 %	120.9714 %	113.4956 %	105.2073 %	99.0196 %	102.9818 %
Concentration per Run 3	0.3422 ppm	112.9437 %	121.7370 %	114.1757 %	103.6752 %	99.4717 %	103.7333 %
Concentration RSD	0.6 %	1.1 %	0.5 %	0.3 %	1.1 %	0.3 %	0.5 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511313-04D2 WG2036900
Analysis started at: 3/7/2025 2:54:48 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	61.0693 ppm	0.0252 ppm	0.0084 ppm	1.0310 ppm	0.0017 ppm	184.0179 ppm
Concentration per Run 1	0.0025 ppm	60.8472 ppm	0.0243 ppm	0.0079 ppm	1.0265 ppm	0.0018 ppm	183.6631 ppm
Concentration per Run 2	0.0024 ppm	61.0977 ppm	0.0264 ppm	0.0084 ppm	1.0314 ppm	0.0018 ppm	184.2685 ppm
Concentration per Run 3	0.0021 ppm	61.2629 ppm	0.0247 ppm	0.0089 ppm	1.0350 ppm	0.0016 ppm	184.1220 ppm
Concentration RSD	10.7 %	0.3 %	4.4 %	6.1 %	0.4 %	5.2 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0009 ppm	0.0579 ppm	0.1404 ppm	0.2588 ppm	142.0107 ppm	24.4495 ppm	0.0664 ppm
Concentration per Run 1	-0.0009 ppm	0.0580 ppm	0.1400 ppm	0.2597 ppm	141.4088 ppm	24.3361 ppm	0.0660 ppm
Concentration per Run 2	-0.0008 ppm	0.0579 ppm	0.1408 ppm	0.2576 ppm	142.0848 ppm	24.4390 ppm	0.0659 ppm
Concentration per Run 3	-0.0010 ppm	0.0578 ppm	0.1403 ppm	0.2591 ppm	142.5385 ppm	24.5735 ppm	0.0673 ppm
Concentration RSD	8.7 %	0.2 %	0.3 %	0.4 %	0.4 %	0.5 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	51.2681 ppm	5.1736 ppm	0.0015 ppm	1.9017 ppm	0.1392 ppm	1.6074 ppm	0.0029 ppm
Concentration per Run 1	51.2268 ppm	5.1505 ppm	0.0014 ppm	1.8817 ppm	0.1391 ppm	1.6116 ppm	0.0022 ppm
Concentration per Run 2	51.3520 ppm	5.1695 ppm	0.0016 ppm	1.9009 ppm	0.1394 ppm	1.6082 ppm	0.0024 ppm
Concentration per Run 3	51.2254 ppm	5.2008 ppm	0.0015 ppm	1.9226 ppm	0.1392 ppm	1.6025 ppm	0.0042 ppm
Concentration RSD	0.1 %	0.5 %	9.6 %	1.1 %	0.1 %	0.3 %	37.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	2.5389 ppm	0.0288 ppm	0.4891 ppm	5.7360 ppm	0.0049 ppm	0.1937 ppm
Concentration per Run 1	0.0018 ppm	2.5720 ppm	0.0289 ppm	0.4869 ppm	5.7370 ppm	0.0064 ppm	0.1940 ppm
Concentration per Run 2	-0.0020 ppm	2.5342 ppm	0.0293 ppm	0.4882 ppm	5.7402 ppm	0.0054 ppm	0.1937 ppm
Concentration per Run 3	-0.0012 ppm	2.5106 ppm	0.0283 ppm	0.4922 ppm	5.7309 ppm	0.0030 ppm	0.1933 ppm
Concentration RSD	409.5 %	1.2 %	1.8 %	0.6 %	0.1 %	35.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.9477 ppm	114.0326 %	121.9352 %	113.1757 %	100.3852 %	93.5474 %	99.3898 %
Concentration per Run 1	0.9509 ppm	114.2974 %	121.9164 %	113.2185 %	100.6517 %	93.5462 %	99.5618 %
Concentration per Run 2	0.9477 ppm	113.1195 %	121.9760 %	113.1556 %	99.6779 %	93.5229 %	99.2556 %
Concentration per Run 3	0.9445 ppm	114.6811 %	121.9132 %	113.1529 %	100.8259 %	93.5731 %	99.3521 %
Concentration RSD	0.3 %	0.7 %	0.0 %	0.0 %	0.6 %	0.0 %	0.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511313-05D2 WG2036900
Analysis started at: 3/7/2025 3:00:58 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0046 ppm	177.0214 ppm	0.0080 ppm	-0.0011 ppm	1.8304 ppm	-0.0038 ppm	27.0607 ppm
Concentration per Run 1	0.0043 ppm	178.2450 ppm	0.0086 ppm	-0.0012 ppm	1.8491 ppm	-0.0037 ppm	27.2577 ppm
Concentration per Run 2	0.0050 ppm	177.0349 ppm	0.0078 ppm	-0.0009 ppm	1.8047 ppm	-0.0039 ppm	27.0165 ppm
Concentration per Run 3	0.0045 ppm	175.7844 ppm	0.0075 ppm	-0.0011 ppm	1.8373 ppm	-0.0037 ppm	26.9080 ppm
Concentration RSD	7.4 %	0.7 %	7.1 %	14.0 %	1.3 %	2.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0038 ppm	0.1566 ppm	0.7307 ppm	1.0775 ppm	313.4304 [SIC 500]	122.4786 ppm	0.1458 ppm
Concentration per Run 1	-0.0038 ppm	0.1567 ppm	0.7346 ppm	1.0834 ppm	314.2553 ppm	123.1419 ppm	0.1451 ppm
Concentration per Run 2	-0.0038 ppm	0.1564 ppm	0.7304 ppm	1.0790 ppm	311.1625 ppm	122.4553 ppm	0.1463 ppm
Concentration per Run 3	-0.0039 ppm	0.1567 ppm	0.7273 ppm	1.0702 ppm	314.8734 ppm	121.8385 ppm	0.1459 ppm
Concentration RSD	2.3 %	0.1 %	0.5 %	0.6 %	0.6 %	0.5 %	0.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	155.6890 ppm	4.4710 ppm	0.0015 ppm	1.7768 ppm	1.3058 ppm	0.0140 ppm	0.0079 ppm
Concentration per Run 1	157.1972 ppm	4.4959 ppm	0.0015 ppm	1.7847 ppm	1.3061 ppm	0.0139 ppm	0.0089 ppm
Concentration per Run 2	154.5399 ppm	4.4718 ppm	0.0013 ppm	1.7722 ppm	1.3046 ppm	0.0151 ppm	0.0052 ppm
Concentration per Run 3	155.3299 ppm	4.4454 ppm	0.0017 ppm	1.7735 ppm	1.3066 ppm	0.0129 ppm	0.0095 ppm
Concentration RSD	0.9 %	0.6 %	12.7 %	0.4 %	0.1 %	8.1 %	30.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0074 ppm	2.1323 ppm	0.0149 ppm	0.0615 ppm	30.3057 ppm	0.0300 ppm	0.7776 ppm
Concentration per Run 1	-0.0075 ppm	2.1437 ppm	0.0145 ppm	0.0615 ppm	30.4247 ppm	0.0300 ppm	0.7821 ppm
Concentration per Run 2	-0.0075 ppm	2.1296 ppm	0.0147 ppm	0.0615 ppm	30.2760 ppm	0.0314 ppm	0.7781 ppm
Concentration per Run 3	-0.0072 ppm	2.1235 ppm	0.0157 ppm	0.0613 ppm	30.2163 ppm	0.0285 ppm	0.7726 ppm
Concentration RSD	2.7 %	0.5 %	4.3 %	0.2 %	0.4 %	4.9 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6698 ppm	156.7522 %	164.4588 %	152.3084 %	115.3698 %	102.3166 %	111.2573 %
Concentration per Run 1	0.6703 ppm	156.2953 %	164.7219 %	152.4246 %	114.9809 %	102.5350 %	110.8737 %
Concentration per Run 2	0.6688 ppm	157.4964 %	164.6605 %	152.3279 %	115.7993 %	102.3186 %	111.4635 %
Concentration per Run 3	0.6703 ppm	156.4648 %	163.9939 %	152.1726 %	115.3293 %	102.0962 %	111.4347 %
Concentration RSD	0.1 %	0.4 %	0.2 %	0.1 %	0.4 %	0.2 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: I2511197-03D2 WG2037045
Analysis started at: 3/7/2025 3:07:49 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	63.6564 ppm	0.0227 ppm	0.0171 ppm	0.5365 ppm	0.0033 ppm	25.9690 ppm
Concentration per Run 1	0.0015 ppm	63.4362 ppm	0.0216 ppm	0.0174 ppm	0.5327 ppm	0.0032 ppm	25.8764 ppm
Concentration per Run 2	0.0019 ppm	63.6738 ppm	0.0227 ppm	0.0169 ppm	0.5350 ppm	0.0033 ppm	25.9841 ppm
Concentration per Run 3	0.0020 ppm	63.8593 ppm	0.0237 ppm	0.0170 ppm	0.5418 ppm	0.0032 ppm	26.0465 ppm
Concentration RSD	14.0 %	0.3 %	4.5 %	1.5 %	0.9 %	0.9 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0008 ppm	0.0417 ppm	0.1351 ppm	0.1978 ppm	131.7439 ppm	4.2617 ppm	0.0585 ppm
Concentration per Run 1	-0.0007 ppm	0.0416 ppm	0.1362 ppm	0.1989 ppm	131.3284 ppm	4.3008 ppm	0.0603 ppm
Concentration per Run 2	-0.0007 ppm	0.0418 ppm	0.1354 ppm	0.1978 ppm	131.7137 ppm	4.2247 ppm	0.0577 ppm
Concentration per Run 3	-0.0008 ppm	0.0417 ppm	0.1337 ppm	0.1968 ppm	132.1895 ppm	4.2596 ppm	0.0575 ppm
Concentration RSD	6.0 %	0.2 %	1.0 %	0.5 %	0.3 %	0.9 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.0811 ppm	2.5912 ppm	0.0034 ppm	1.4105 ppm	0.0872 ppm	0.4946 ppm	0.0047 ppm
Concentration per Run 1	21.1465 ppm	2.5890 ppm	0.0034 ppm	1.4062 ppm	0.0869 ppm	0.4948 ppm	0.0050 ppm
Concentration per Run 2	21.1745 ppm	2.5903 ppm	0.0036 ppm	1.4073 ppm	0.0873 ppm	0.4951 ppm	0.0052 ppm
Concentration per Run 3	20.9224 ppm	2.5941 ppm	0.0033 ppm	1.4181 ppm	0.0874 ppm	0.4940 ppm	0.0037 ppm
Concentration RSD	0.7 %	0.1 %	4.0 %	0.5 %	0.3 %	0.1 %	17.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	2.1981 ppm	0.0393 ppm	0.1072 ppm	2.4959 ppm	0.0027 ppm	0.1827 ppm
Concentration per Run 1	0.0007 ppm	2.2222 ppm	0.0402 ppm	0.1068 ppm	2.5061 ppm	0.0025 ppm	0.1834 ppm
Concentration per Run 2	0.0020 ppm	2.1920 ppm	0.0390 ppm	0.1070 ppm	2.5003 ppm	0.0031 ppm	0.1830 ppm
Concentration per Run 3	0.0022 ppm	2.1799 ppm	0.0389 ppm	0.1077 ppm	2.4813 ppm	0.0025 ppm	0.1817 ppm
Concentration RSD	48.9 %	1.0 %	1.8 %	0.4 %	0.5 %	12.6 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7411 ppm	123.7375 %	134.4461 %	125.7367 %	102.9443 %	100.0713 %	103.6382 %
Concentration per Run 1	0.7424 ppm	124.1616 %	134.2459 %	125.7874 %	103.0038 %	100.0207 %	103.3066 %
Concentration per Run 2	0.7409 ppm	123.8328 %	134.2683 %	125.7739 %	102.8108 %	100.1202 %	103.2920 %
Concentration per Run 3	0.7399 ppm	123.2181 %	134.8242 %	125.6488 %	103.0183 %	100.0729 %	104.3161 %
Concentration RSD	0.2 %	0.4 %	0.2 %	0.1 %	0.1 %	0.0 %	0.6 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: I2511197-04D2 WG2037045
Analysis started at: 3/7/2025 3:14:06 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	106.0346 ppm	0.0309 ppm	0.0155 ppm	0.5908 ppm	0.0056 ppm	57.1558 ppm
Concentration per Run 1	0.0024 ppm	106.5259 ppm	0.0304 ppm	0.0157 ppm	0.5910 ppm	0.0056 ppm	57.4348 ppm
Concentration per Run 2	0.0025 ppm	105.8997 ppm	0.0307 ppm	0.0155 ppm	0.5916 ppm	0.0057 ppm	57.0988 ppm
Concentration per Run 3	0.0026 ppm	105.6781 ppm	0.0316 ppm	0.0153 ppm	0.5897 ppm	0.0056 ppm	56.9339 ppm
Concentration RSD	3.7 %	0.4 %	2.1 %	1.3 %	0.2 %	0.6 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0008 ppm	0.0547 ppm	0.1502 ppm	0.3661 ppm	158.9306 ppm	9.1302 ppm	0.0662 ppm
Concentration per Run 1	-0.0008 ppm	0.0548 ppm	0.1499 ppm	0.3661 ppm	159.6230 ppm	9.1870 ppm	0.0660 ppm
Concentration per Run 2	-0.0008 ppm	0.0550 ppm	0.1507 ppm	0.3667 ppm	158.7771 ppm	9.1365 ppm	0.0651 ppm
Concentration per Run 3	-0.0008 ppm	0.0543 ppm	0.1499 ppm	0.3654 ppm	158.3915 ppm	9.0671 ppm	0.0674 ppm
Concentration RSD	3.3 %	0.7 %	0.3 %	0.2 %	0.4 %	0.7 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.6665 ppm	5.4177 ppm	0.0071 ppm	2.4214 ppm	0.0979 ppm	0.9594 ppm	0.0072 ppm
Concentration per Run 1	21.6552 ppm	5.4422 ppm	0.0071 ppm	2.4295 ppm	0.0986 ppm	0.9620 ppm	0.0064 ppm
Concentration per Run 2	21.7076 ppm	5.4146 ppm	0.0073 ppm	2.4279 ppm	0.0978 ppm	0.9647 ppm	0.0081 ppm
Concentration per Run 3	21.6367 ppm	5.3965 ppm	0.0070 ppm	2.4068 ppm	0.0973 ppm	0.9516 ppm	0.0072 ppm
Concentration RSD	0.2 %	0.4 %	2.0 %	0.5 %	0.7 %	0.7 %	11.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0021 ppm	6.5097 ppm	0.1193 ppm	0.2949 ppm	2.3980 ppm	0.0037 ppm	0.2249 ppm
Concentration per Run 1	0.0036 ppm	6.6460 ppm	0.1196 ppm	0.2963 ppm	2.3993 ppm	0.0034 ppm	0.2252 ppm
Concentration per Run 2	0.0013 ppm	6.5615 ppm	0.1195 ppm	0.2946 ppm	2.4021 ppm	0.0038 ppm	0.2254 ppm
Concentration per Run 3	0.0014 ppm	6.3216 ppm	0.1188 ppm	0.2938 ppm	2.3925 ppm	0.0038 ppm	0.2243 ppm
Concentration RSD	62.7 %	2.6 %	0.4 %	0.4 %	0.2 %	6.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0020 ppm	150.0241 %	160.6248 %	151.4894 %	101.5128 %	97.3033 %	101.6233 %
Concentration per Run 1	1.0058 ppm	149.4487 %	160.4695 %	151.7758 %	100.7173 %	97.2795 %	101.7204 %
Concentration per Run 2	1.0068 ppm	150.1464 %	160.6906 %	150.8867 %	101.8548 %	96.8542 %	101.6231 %
Concentration per Run 3	0.9934 ppm	150.4771 %	160.7143 %	151.8055 %	101.9662 %	97.7763 %	101.5264 %
Concentration RSD	0.7 %	0.3 %	0.1 %	0.3 %	0.7 %	0.5 %	0.1 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: I2511197-06D2 WG2037045
Analysis started at: 3/7/2025 3:20:17 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0036 ppm	89.9686 ppm	0.0463 ppm	0.0161 ppm	0.9250 ppm	0.0045 ppm	88.8500 ppm
Concentration per Run 1	0.0033 ppm	91.7369 ppm	0.0472 ppm	0.0163 ppm	0.9378 ppm	0.0046 ppm	90.5523 ppm
Concentration per Run 2	0.0037 ppm	89.8941 ppm	0.0455 ppm	0.0164 ppm	0.9245 ppm	0.0045 ppm	88.7360 ppm
Concentration per Run 3	0.0040 ppm	88.2748 ppm	0.0462 ppm	0.0155 ppm	0.9128 ppm	0.0044 ppm	87.2617 ppm
Concentration RSD	8.7 %	1.9 %	1.9 %	3.2 %	1.4 %	2.1 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0043 ppm	0.0595 ppm	0.1951 ppm	0.4689 ppm	244.7399 [SIC 500]	8.8244 ppm	0.0837 ppm
Concentration per Run 1	0.0044 ppm	0.0598 ppm	0.1954 ppm	0.4700 ppm	248.8898 ppm	9.0329 ppm	0.0841 ppm
Concentration per Run 2	0.0043 ppm	0.0596 ppm	0.1947 ppm	0.4689 ppm	241.9745 ppm	8.7853 ppm	0.0834 ppm
Concentration per Run 3	0.0042 ppm	0.0591 ppm	0.1950 ppm	0.4678 ppm	243.3555 ppm	8.6551 ppm	0.0835 ppm
Concentration RSD	2.9 %	0.7 %	0.2 %	0.2 %	1.5 %	2.2 %	0.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	29.4014 ppm	4.2182 ppm	0.0068 ppm	1.9102 ppm	0.1391 ppm	1.8433 ppm	0.0200 ppm
Concentration per Run 1	29.4983 ppm	4.3003 ppm	0.0065 ppm	1.9391 ppm	0.1404 ppm	1.8511 ppm	0.0187 ppm
Concentration per Run 2	29.3647 ppm	4.2151 ppm	0.0070 ppm	1.9140 ppm	0.1387 ppm	1.8460 ppm	0.0204 ppm
Concentration per Run 3	29.3412 ppm	4.1392 ppm	0.0067 ppm	1.8774 ppm	0.1381 ppm	1.8330 ppm	0.0209 ppm
Concentration RSD	0.3 %	1.9 %	3.3 %	1.6 %	0.9 %	0.5 %	5.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0024 ppm	2.3595 ppm	0.7680 ppm	0.2530 ppm	2.3294 ppm	0.0035 ppm	0.2718 ppm
Concentration per Run 1	0.0028 ppm	2.4398 ppm	0.7717 ppm	0.2578 ppm	2.3381 ppm	0.0031 ppm	0.2728 ppm
Concentration per Run 2	0.0034 ppm	2.3589 ppm	0.7674 ppm	0.2532 ppm	2.3266 ppm	0.0042 ppm	0.2716 ppm
Concentration per Run 3	0.0010 ppm	2.2799 ppm	0.7649 ppm	0.2480 ppm	2.3234 ppm	0.0033 ppm	0.2709 ppm
Concentration RSD	50.5 %	3.4 %	0.4 %	1.9 %	0.3 %	17.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	3.1137 ppm	119.9616 %	129.8644 %	122.3570 %	97.7716 %	95.9250 %	101.3890 %
Concentration per Run 1	3.1257 ppm	118.3730 %	129.8362 %	122.6809 %	95.9773 %	96.0778 %	101.3426 %
Concentration per Run 2	3.1143 ppm	120.0352 %	129.9736 %	122.1849 %	97.8749 %	95.7594 %	101.4321 %
Concentration per Run 3	3.1010 ppm	121.4767 %	129.7833 %	122.2054 %	99.4625 %	95.9379 %	101.3922 %
Concentration RSD	0.4 %	1.3 %	0.1 %	0.2 %	1.8 %	0.2 %	0.0 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511313-05D4 WG2036900
Analysis started at: 3/7/2025 3:26:36 PM
Comments rr Fe Tl
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0028 ppm	92.9867 ppm	0.0053 ppm	-0.0005 ppm	1.1186 ppm	-0.0011 ppm	14.4820 ppm
Concentration per Run 1	0.0026 ppm	92.4822 ppm	0.0063 ppm	-0.0007 ppm	1.1193 ppm	-0.0011 ppm	14.4257 ppm
Concentration per Run 2	0.0029 ppm	92.8906 ppm	0.0051 ppm	0.0002 ppm	1.1127 ppm	-0.0011 ppm	14.4781 ppm
Concentration per Run 3	0.0028 ppm	93.5873 ppm	0.0044 ppm	-0.0011 ppm	1.1239 ppm	-0.0011 ppm	14.5420 ppm
Concentration RSD	5.6 %	0.6 %	18.2 %	132.8 %	0.5 %	3.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0018 ppm	0.0870 ppm	0.4064 ppm	0.5828 ppm	172.9885 ppm	64.2411 ppm	0.0751 ppm
Concentration per Run 1	-0.0017 ppm	0.0872 ppm	0.4101 ppm	0.5878 ppm	170.2467 ppm	63.8412 ppm	0.0739 ppm
Concentration per Run 2	-0.0018 ppm	0.0869 ppm	0.4026 ppm	0.5779 ppm	173.2315 ppm	64.2032 ppm	0.0746 ppm
Concentration per Run 3	-0.0018 ppm	0.0869 ppm	0.4064 ppm	0.5826 ppm	175.4873 ppm	64.6788 ppm	0.0767 ppm
Concentration RSD	5.2 %	0.2 %	0.9 %	0.8 %	1.5 %	0.7 %	1.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	86.2333 ppm	2.3976 ppm	0.0006 ppm	0.9230 ppm	0.7137 ppm	0.0064 ppm	0.0047 ppm
Concentration per Run 1	86.7107 ppm	2.3816 ppm	0.0006 ppm	0.9126 ppm	0.7156 ppm	0.0070 ppm	0.0043 ppm
Concentration per Run 2	85.6812 ppm	2.4005 ppm	0.0008 ppm	0.9240 ppm	0.7139 ppm	0.0053 ppm	0.0053 ppm
Concentration per Run 3	86.3080 ppm	2.4107 ppm	0.0005 ppm	0.9325 ppm	0.7118 ppm	0.0070 ppm	0.0046 ppm
Concentration RSD	0.6 %	0.6 %	22.6 %	1.1 %	0.3 %	14.6 %	11.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0051 ppm	1.2549 ppm	0.0088 ppm	0.0326 ppm	16.8430 ppm	0.0158 ppm	0.4279 ppm
Concentration per Run 1	-0.0062 ppm	1.2582 ppm	0.0087 ppm	0.0323 ppm	16.8872 ppm	0.0156 ppm	0.4314 ppm
Concentration per Run 2	-0.0064 ppm	1.2564 ppm	0.0091 ppm	0.0326 ppm	16.7326 ppm	0.0149 ppm	0.4249 ppm
Concentration per Run 3	-0.0027 ppm	1.2499 ppm	0.0085 ppm	0.0330 ppm	16.9093 ppm	0.0170 ppm	0.4272 ppm
Concentration RSD	40.8 %	0.3 %	3.5 %	1.2 %	0.6 %	6.9 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3689 ppm	125.9347 %	135.8905 %	127.3246 %	107.0996 %	101.3823 %	106.3231 %
Concentration per Run 1	0.3701 ppm	125.6490 %	135.7320 %	127.4224 %	107.5060 %	101.2153 %	105.8389 %
Concentration per Run 2	0.3688 ppm	126.8648 %	136.0642 %	127.1939 %	107.4678 %	101.3412 %	106.8767 %
Concentration per Run 3	0.3679 ppm	125.2902 %	135.8752 %	127.3575 %	106.3250 %	101.5904 %	106.2538 %
Concentration RSD	0.3 %	0.7 %	0.1 %	0.1 %	0.6 %	0.2 %	0.5 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 3:33:13 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5095 ppm	0.4942 ppm	0.4723 ppm	0.4810 ppm	0.4771 ppm	0.4626 ppm	0.4951 ppm
Concentration per Run 1	0.5090 ppm	0.4668 ppm	0.4712 ppm	0.4801 ppm	0.4457 ppm	0.4356 ppm	0.4660 ppm
Concentration per Run 2	0.5098 ppm	0.5130 ppm	0.4741 ppm	0.4829 ppm	0.4905 ppm	0.4746 ppm	0.5106 ppm
Concentration per Run 3	0.5099 ppm	0.5026 ppm	0.4716 ppm	0.4798 ppm	0.4950 ppm	0.4775 ppm	0.5087 ppm
Recovery Percentage 1	101.909 %	98.832 %	94.468 %	96.191 %	95.415 %	92.513 %	99.017 %
Concentration RSD	0.1 %	4.9 %	0.3 %	0.4 %	5.7 %	5.1 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4812 ppm	0.4858 ppm	0.4968 ppm	0.4854 ppm	0.5057 ppm	5.1357 ppm	0.4484 ppm
Concentration per Run 1	0.4815 ppm	0.4858 ppm	0.4974 ppm	0.4866 ppm	0.4764 ppm	4.8848 ppm	0.4218 ppm
Concentration per Run 2	0.4823 ppm	0.4875 ppm	0.4957 ppm	0.4839 ppm	0.5215 ppm	5.2361 ppm	0.4613 ppm
Concentration per Run 3	0.4797 ppm	0.4841 ppm	0.4972 ppm	0.4856 ppm	0.5191 ppm	5.2861 ppm	0.4622 ppm
Recovery Percentage 1	96.232 %	97.162 %	99.358 %	97.077 %	101.136 %	102.713 %	89.688 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %	5.0 %	4.3 %	5.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5464 ppm	0.4779 ppm	0.4629 ppm	9.5182 ppm	0.5144 ppm	0.4672 ppm	0.4971 ppm
Concentration per Run 1	0.5426 ppm	0.4500 ppm	0.4613 ppm	8.9704 ppm	0.5142 ppm	0.4681 ppm	0.4981 ppm
Concentration per Run 2	0.5472 ppm	0.4914 ppm	0.4646 ppm	9.7696 ppm	0.5164 ppm	0.4682 ppm	0.4968 ppm
Concentration per Run 3	0.5493 ppm	0.4922 ppm	0.4629 ppm	9.8147 ppm	0.5127 ppm	0.4652 ppm	0.4963 ppm
Recovery Percentage 1	109.271 %	95.576 %	92.585 %	95.182 %	102.889 %	93.430 %	99.414 %
Concentration RSD	0.6 %	5.0 %	0.4 %	5.0 %	0.4 %	0.4 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4647 ppm	5.5758 ppm	0.4784 ppm	0.4707 ppm	0.5221 ppm	0.5115 ppm	0.5061 ppm
Concentration per Run 1	0.4646 ppm	5.5763 ppm	0.4789 ppm	0.4426 ppm	0.5228 ppm	0.5125 ppm	0.5068 ppm
Concentration per Run 2	0.4648 ppm	5.6005 ppm	0.4792 ppm	0.4841 ppm	0.5214 ppm	0.5132 ppm	0.5055 ppm
Concentration per Run 3	0.4646 ppm	5.5505 ppm	0.4770 ppm	0.4853 ppm	0.5222 ppm	0.5087 ppm	0.5060 ppm
Recovery Percentage 1	92.936 %	106.205 %	95.674 %	94.135 %	104.424 %	102.293 %	101.216 %
Concentration RSD	0.0 %	0.4 %	0.2 %	5.2 %	0.1 %	0.5 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4999 ppm	99.1208 %	106.1013 %	98.8676 %	102.0920 %	102.5930 %	101.9506 %
Concentration per Run 1	0.4997 ppm	104.6610 %	106.0144 %	99.0092 %	107.2931 %	102.6401 %	101.9946 %
Concentration per Run 2	0.5014 ppm	96.2420 %	106.0195 %	98.5537 %	99.3734 %	102.4177 %	102.0098 %
Concentration per Run 3	0.4986 ppm	96.4596 %	106.2701 %	99.0399 %	99.6094 %	102.7212 %	101.8475 %
Recovery Percentage 1	99.984 %						
Concentration RSD	0.3 %	4.8 %	0.1 %	0.3 %	4.4 %	0.2 %	0.1 %

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 3:39:29 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 1	0.0001 ppm	0.0060 ppm	0.0003 ppm	-0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 2	-0.0001 ppm	-0.0027 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0037 ppm
Concentration per Run 3	0.0000 ppm	-0.0021 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm
Recovery Percentage 1	-0.035 %	0.380 %	-2.401 %	-0.975 %	-1.532 %	1.210 %	3.875 %
Concentration RSD	5,218.1 %	1,277.5 %	305.3 %	52.0 %	84.3 %	56.9 %	123.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0346 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0119 ppm	-0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0386 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0007 ppm	0.0008 ppm	0.0534 ppm	0.0002 ppm
Recovery Percentage 1	0.927 %	-1.071 %	0.365 %	4.969 %	1.494 %	1.385 %	-8.368 %
Concentration RSD	56.3 %	57.1 %	318.4 %	37.3 %	15.5 %	60.7 %	110.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0053 ppm	0.0004 ppm	-0.0002 ppm	-0.0009 ppm
Concentration per Run 1	-0.0018 ppm	0.0001 ppm	0.0004 ppm	-0.0021 ppm	0.0005 ppm	-0.0005 ppm	-0.0012 ppm
Concentration per Run 2	0.0027 ppm	-0.0002 ppm	0.0003 ppm	0.0075 ppm	0.0003 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 3	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0105 ppm	0.0006 ppm	0.0001 ppm	-0.0011 ppm
Recovery Percentage 1	0.453 %	-0.599 %	0.695 %	0.265 %	1.766 %	-1.521 %	-1.842 %
Concentration RSD	498.3 %	250.3 %	26.1 %	123.9 %	30.6 %	195.2 %	42.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0012 ppm	-0.0001 ppm
Recovery Percentage 1	6.126 %	0.067 %	0.383 %	-0.255 %	0.986 %	-2.650 %	-0.126 %
Concentration RSD	64.2 %	173.6 %	179.8 %	314.3 %	316.0 %	194.0 %	560.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	97.0868 %	107.1091 %	99.9208 %	99.3283 %	104.1842 %	101.3088 %
Concentration per Run 1	0.0000 ppm	97.9935 %	107.0867 %	99.8170 %	100.4045 %	103.9643 %	101.4031 %
Concentration per Run 2	0.0001 ppm	96.7276 %	107.1525 %	100.0704 %	98.6759 %	104.3044 %	101.3858 %
Concentration per Run 3	0.0000 ppm	96.5392 %	107.0882 %	99.8752 %	98.9045 %	104.2839 %	101.1375 %
Recovery Percentage 1	1.345 %						
Concentration RSD	86.2 %	0.8 %	0.0 %	0.1 %	0.9 %	0.2 %	0.1 %

ICP DataTrace 5

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LabBook: WG2037545_03072025T5.imexp

Sample: WG2037379-1 WG2037379
Analysis started at: 3/7/2025 3:53:16 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0024 ppm	-0.0005 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0654 ppm
Concentration per Run 1	0.0002 ppm	-0.0074 ppm	-0.0010 ppm	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0668 ppm
Concentration per Run 2	0.0000 ppm	-0.0015 ppm	0.0003 ppm	0.0018 ppm	0.0004 ppm	0.0000 ppm	0.0641 ppm
Concentration per Run 3	-0.0002 ppm	0.0016 ppm	-0.0009 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0653 ppm
Recovery Percentage 1	0.229 %	-2.440 %	-10.832 %	6.603 %	3.037 %	0.020 %	65.403 %
Concentration RSD	1,178.6 %	188.6 %	134.9 %	10.5 %	36.5 %	1,782.1 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0018 ppm	0.1063 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0034 ppm	0.1014 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0009 ppm	0.0008 ppm	0.1075 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0013 ppm	0.1100 ppm	0.0017 ppm
Recovery Percentage 1	0.974 %	-1.148 %	2.775 %	8.549 %	3.637 %	4.252 %	11.499 %
Concentration RSD	31.5 %	38.7 %	57.2 %	11.3 %	78.7 %	4.2 %	63.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0095 ppm	0.0003 ppm	-0.0002 ppm	151.5874 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	0.0102 ppm	0.0006 ppm	-0.0001 ppm	152.6258 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0082 ppm	0.0003 ppm	-0.0003 ppm	152.4742 ppm	-0.0002 ppm	-0.0005 ppm	-0.0010 ppm
Concentration per Run 3	0.0102 ppm	0.0001 ppm	-0.0002 ppm	149.6620 ppm	0.0000 ppm	0.0004 ppm	-0.0006 ppm
Recovery Percentage 1	9.549 %	3.300 %	-0.342 %	7,579.368 %	-0.249 %	0.322 %	-0.637 %
Concentration RSD	11.8 %	79.5 %	58.6 %	1.1 %	204.9 %	1,469.2 %	265.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.0313 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 1	-0.0016 ppm	0.0327 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	-0.0003 ppm
Concentration per Run 2	0.0013 ppm	0.0310 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 3	-0.0027 ppm	0.0304 ppm	0.0009 ppm	0.0002 ppm	0.0004 ppm	-0.0025 ppm	-0.0001 ppm
Recovery Percentage 1	-9.863 %	6.267 %	1.691 %	1.043 %	1.424 %	-8.268 %	-1.384 %
Concentration RSD	206.6 %	3.8 %	11.6 %	122.4 %	129.2 %	52.5 %	115.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0012 ppm	91.0882 %	101.5911 %	93.6228 %	95.1975 %	93.3437 %	98.3239 %
Concentration per Run 1	0.0012 ppm	90.8266 %	100.7048 %	93.8396 %	94.6959 %	93.5465 %	97.4118 %
Concentration per Run 2	0.0012 ppm	90.7706 %	101.5558 %	93.6453 %	94.9372 %	93.4166 %	98.3552 %
Concentration per Run 3	0.0013 ppm	91.6675 %	102.5128 %	93.3835 %	95.9594 %	93.0679 %	99.2046 %
Recovery Percentage 1	24.785 %						
Concentration RSD	6.8 %	0.6 %	0.9 %	0.2 %	0.7 %	0.3 %	0.9 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037379-2 WG2037379
Analysis started at: 3/7/2025 3:59:44 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0502 ppm	1.9584 ppm	0.1141 ppm	0.9525 ppm	1.9360 ppm	0.0464 ppm	9.6138 ppm
Concentration per Run 1	0.0505 ppm	1.9211 ppm	0.1145 ppm	0.9511 ppm	1.9118 ppm	0.0457 ppm	9.5152 ppm
Concentration per Run 2	0.0502 ppm	1.9737 ppm	0.1149 ppm	0.9542 ppm	1.9357 ppm	0.0466 ppm	9.6313 ppm
Concentration per Run 3	0.0500 ppm	1.9804 ppm	0.1129 ppm	0.9522 ppm	1.9603 ppm	0.0469 ppm	9.6949 ppm
Concentration RSD	0.6 %	1.7 %	0.9 %	0.2 %	1.3 %	1.3 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0523 ppm	0.4817 ppm	0.1938 ppm	0.2418 ppm	0.9856 ppm	10.7820 ppm	0.0024 ppm
Concentration per Run 1	0.0523 ppm	0.4806 ppm	0.1936 ppm	0.2423 ppm	0.9719 ppm	10.6930 ppm	0.0023 ppm
Concentration per Run 2	0.0524 ppm	0.4824 ppm	0.1943 ppm	0.2420 ppm	0.9875 ppm	10.7853 ppm	0.0027 ppm
Concentration per Run 3	0.0523 ppm	0.4821 ppm	0.1936 ppm	0.2410 ppm	0.9974 ppm	10.8676 ppm	0.0023 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.3 %	1.3 %	0.8 %	9.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.1188 ppm	0.4796 ppm	0.9520 ppm	151.6321 ppm	0.5141 ppm	0.4682 ppm	0.5123 ppm
Concentration per Run 1	10.1057 ppm	0.4726 ppm	0.9499 ppm	149.3316 ppm	0.5132 ppm	0.4675 ppm	0.5106 ppm
Concentration per Run 2	10.1495 ppm	0.4804 ppm	0.9536 ppm	152.1010 ppm	0.5149 ppm	0.4695 ppm	0.5138 ppm
Concentration per Run 3	10.1011 ppm	0.4857 ppm	0.9525 ppm	153.4638 ppm	0.5142 ppm	0.4678 ppm	0.5126 ppm
Concentration RSD	0.3 %	1.4 %	0.2 %	1.4 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1073 ppm	1.2233 ppm	0.9157 ppm	0.9203 ppm	1.0141 ppm	0.1097 ppm	0.5043 ppm
Concentration per Run 1	0.1063 ppm	1.2207 ppm	0.9139 ppm	0.9104 ppm	1.0129 ppm	0.1087 ppm	0.5034 ppm
Concentration per Run 2	0.1076 ppm	1.2249 ppm	0.9166 ppm	0.9213 ppm	1.0162 ppm	0.1093 ppm	0.5047 ppm
Concentration per Run 3	0.1081 ppm	1.2243 ppm	0.9167 ppm	0.9293 ppm	1.0130 ppm	0.1110 ppm	0.5048 ppm
Concentration RSD	0.9 %	0.2 %	0.2 %	1.0 %	0.2 %	1.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5160 ppm	94.5389 %	100.9615 %	93.7502 %	98.4799 %	93.3174 %	97.4913 %
Concentration per Run 1	0.5150 ppm	95.3715 %	101.2955 %	93.8199 %	99.3843 %	93.4319 %	97.7950 %
Concentration per Run 2	0.5172 ppm	94.9716 %	100.7726 %	93.8229 %	98.8059 %	93.1354 %	97.0929 %
Concentration per Run 3	0.5157 ppm	93.2735 %	100.8165 %	93.6079 %	97.2496 %	93.3849 %	97.5861 %
Concentration RSD	0.2 %	1.2 %	0.3 %	0.1 %	1.1 %	0.2 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511075-01 WG2037379
Analysis started at: 3/7/2025 4:05:58 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0840 ppm	0.0005 ppm	0.0104 ppm	0.0367 ppm	0.0000 ppm	5.0817 ppm
Concentration per Run 1	-0.0004 ppm	0.0844 ppm	-0.0005 ppm	0.0104 ppm	0.0376 ppm	0.0001 ppm	5.1595 ppm
Concentration per Run 2	0.0001 ppm	0.0838 ppm	0.0012 ppm	0.0103 ppm	0.0362 ppm	0.0000 ppm	5.0552 ppm
Concentration per Run 3	0.0002 ppm	0.0838 ppm	0.0008 ppm	0.0104 ppm	0.0363 ppm	0.0001 ppm	5.0305 ppm
Concentration RSD	954.9 %	0.4 %	172.8 %	0.7 %	2.2 %	128.2 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0037 ppm	0.0625 ppm	0.9547 ppm	0.0021 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0037 ppm	0.0626 ppm	0.9740 ppm	0.0010 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0007 ppm	0.0036 ppm	0.0631 ppm	0.9602 ppm	0.0028 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0039 ppm	0.0620 ppm	0.9297 ppm	0.0025 ppm
Concentration RSD	4.1 %	59.8 %	54.1 %	3.5 %	0.9 %	2.4 %	45.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.3669 ppm	0.0810 ppm	0.0009 ppm	149.7044 ppm	0.0006 ppm	0.0034 ppm	-0.0003 ppm
Concentration per Run 1	0.3682 ppm	0.0824 ppm	0.0010 ppm	152.5075 ppm	0.0007 ppm	0.0032 ppm	-0.0005 ppm
Concentration per Run 2	0.3669 ppm	0.0809 ppm	0.0011 ppm	149.7151 ppm	0.0008 ppm	0.0031 ppm	-0.0008 ppm
Concentration per Run 3	0.3657 ppm	0.0798 ppm	0.0006 ppm	146.8907 ppm	0.0004 ppm	0.0038 ppm	0.0003 ppm
Concentration RSD	0.3 %	1.6 %	28.7 %	1.9 %	32.8 %	10.4 %	158.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	0.3194 ppm	0.0012 ppm	0.0148 ppm	0.0026 ppm	-0.0028 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.3221 ppm	0.0011 ppm	0.0149 ppm	0.0024 ppm	-0.0023 ppm	0.0003 ppm
Concentration per Run 2	0.0005 ppm	0.3189 ppm	0.0009 ppm	0.0149 ppm	0.0028 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 3	0.0011 ppm	0.3171 ppm	0.0014 ppm	0.0147 ppm	0.0026 ppm	-0.0036 ppm	0.0005 ppm
Concentration RSD	181.5 %	0.8 %	21.9 %	1.0 %	7.0 %	26.1 %	85.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0295 ppm	89.6266 %	100.9369 %	94.1168 %	92.8964 %	93.8108 %	97.8763 %
Concentration per Run 1	0.0294 ppm	87.3861 %	100.5974 %	94.0961 %	91.0778 %	93.7856 %	97.4208 %
Concentration per Run 2	0.0297 ppm	90.3704 %	100.8599 %	94.1466 %	93.2571 %	93.7148 %	97.7859 %
Concentration per Run 3	0.0294 ppm	91.1234 %	101.3535 %	94.1076 %	94.3543 %	93.9320 %	98.4223 %
Concentration RSD	0.6 %	2.2 %	0.4 %	0.0 %	1.8 %	0.1 %	0.5 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511398-01 WG2037379
Analysis started at: 3/7/2025 4:12:20 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0390 ppm	0.0001 ppm	0.0065 ppm	0.1615 ppm	0.0000 ppm	1.5922 ppm
Concentration per Run 1	0.0001 ppm	0.0395 ppm	-0.0015 ppm	0.0067 ppm	0.1647 ppm	0.0000 ppm	1.6241 ppm
Concentration per Run 2	0.0000 ppm	0.0422 ppm	0.0006 ppm	0.0065 ppm	0.1612 ppm	0.0001 ppm	1.5740 ppm
Concentration per Run 3	0.0002 ppm	0.0352 ppm	0.0011 ppm	0.0064 ppm	0.1586 ppm	0.0000 ppm	1.5786 ppm
Concentration RSD	100.1 %	9.1 %	2,107.7 %	1.9 %	1.9 %	57.8 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0023 ppm	0.0592 ppm	0.2466 ppm	0.0032 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0021 ppm	0.0613 ppm	0.2750 ppm	0.0037 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0026 ppm	0.0584 ppm	0.2573 ppm	0.0029 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0022 ppm	0.0578 ppm	0.2075 ppm	0.0031 ppm
Concentration RSD	7.4 %	70.9 %	58.7 %	10.2 %	3.2 %	14.2 %	14.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.3965 ppm	0.0162 ppm	0.0001 ppm	143.1984 ppm	0.0004 ppm	0.0587 ppm	-0.0008 ppm
Concentration per Run 1	0.3952 ppm	0.0167 ppm	0.0003 ppm	146.8182 ppm	0.0004 ppm	0.0588 ppm	-0.0012 ppm
Concentration per Run 2	0.3974 ppm	0.0160 ppm	0.0000 ppm	141.6484 ppm	0.0004 ppm	0.0584 ppm	-0.0008 ppm
Concentration per Run 3	0.3968 ppm	0.0159 ppm	0.0000 ppm	141.1287 ppm	0.0005 ppm	0.0589 ppm	-0.0005 ppm
Concentration RSD	0.3 %	2.4 %	212.6 %	2.2 %	16.1 %	0.4 %	40.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.2443 ppm	0.0014 ppm	0.0176 ppm	0.0046 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 1	-0.0031 ppm	0.2462 ppm	0.0013 ppm	0.0181 ppm	0.0048 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.2435 ppm	0.0013 ppm	0.0174 ppm	0.0046 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.2432 ppm	0.0015 ppm	0.0174 ppm	0.0044 ppm	-0.0008 ppm	0.0001 ppm
Concentration RSD	155.4 %	0.7 %	10.0 %	2.2 %	4.8 %	55.3 %	51.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1535 ppm	89.4126 %	101.2074 %	93.9881 %	93.6489 %	93.8094 %	97.4355 %
Concentration per Run 1	0.1538 ppm	87.6493 %	100.9271 %	93.5292 %	91.7647 %	93.5376 %	97.0759 %
Concentration per Run 2	0.1530 ppm	89.4897 %	101.2247 %	94.3735 %	94.2819 %	94.0586 %	97.2967 %
Concentration per Run 3	0.1536 ppm	91.0987 %	101.4705 %	94.0615 %	94.9000 %	93.8320 %	97.9337 %
Concentration RSD	0.3 %	1.9 %	0.3 %	0.5 %	1.8 %	0.3 %	0.5 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037379-3 WG2037379
Analysis started at: 3/7/2025 4:18:39 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0507 ppm	2.1296 ppm	0.1156 ppm	0.9699 ppm	2.2555 ppm	0.0493 ppm	11.8491 ppm
Concentration per Run 1	0.0504 ppm	2.1655 ppm	0.1148 ppm	0.9696 ppm	2.2941 ppm	0.0504 ppm	12.0968 ppm
Concentration per Run 2	0.0509 ppm	2.1315 ppm	0.1168 ppm	0.9727 ppm	2.2559 ppm	0.0491 ppm	11.8222 ppm
Concentration per Run 3	0.0508 ppm	2.0919 ppm	0.1151 ppm	0.9675 ppm	2.2166 ppm	0.0484 ppm	11.6283 ppm
Concentration RSD	0.6 %	1.7 %	0.9 %	0.3 %	1.7 %	2.1 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0533 ppm	0.4887 ppm	0.1973 ppm	0.2482 ppm	1.1097 ppm	11.5164 ppm	0.0034 ppm
Concentration per Run 1	0.0533 ppm	0.4889 ppm	0.1965 ppm	0.2481 ppm	1.1353 ppm	11.7770 ppm	0.0027 ppm
Concentration per Run 2	0.0534 ppm	0.4901 ppm	0.1973 ppm	0.2480 ppm	1.1054 ppm	11.4366 ppm	0.0035 ppm
Concentration per Run 3	0.0531 ppm	0.4872 ppm	0.1981 ppm	0.2484 ppm	1.0885 ppm	11.3356 ppm	0.0041 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %	0.1 %	2.1 %	2.0 %	21.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.6832 ppm	0.5283 ppm	0.9618 ppm	156.6181 ppm	0.5247 ppm	0.5319 ppm	0.5203 ppm
Concentration per Run 1	10.6433 ppm	0.5415 ppm	0.9606 ppm	160.1584 ppm	0.5248 ppm	0.5330 ppm	0.5213 ppm
Concentration per Run 2	10.6743 ppm	0.5247 ppm	0.9646 ppm	156.1358 ppm	0.5260 ppm	0.5332 ppm	0.5209 ppm
Concentration per Run 3	10.7319 ppm	0.5187 ppm	0.9600 ppm	153.5599 ppm	0.5233 ppm	0.5295 ppm	0.5189 ppm
Concentration RSD	0.4 %	2.2 %	0.3 %	2.1 %	0.3 %	0.4 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1115 ppm	1.4787 ppm	0.9242 ppm	0.9890 ppm	1.0356 ppm	0.1098 ppm	0.5158 ppm
Concentration per Run 1	0.1134 ppm	1.4810 ppm	0.9247 ppm	1.0140 ppm	1.0321 ppm	0.1095 ppm	0.5142 ppm
Concentration per Run 2	0.1128 ppm	1.4832 ppm	0.9265 ppm	0.9811 ppm	1.0369 ppm	0.1101 ppm	0.5164 ppm
Concentration per Run 3	0.1082 ppm	1.4717 ppm	0.9213 ppm	0.9719 ppm	1.0380 ppm	0.1099 ppm	0.5166 ppm
Concentration RSD	2.6 %	0.4 %	0.3 %	2.2 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6748 ppm	89.0815 %	100.9190 %	93.3536 %	93.6275 %	93.1857 %	97.3587 %
Concentration per Run 1	0.6745 ppm	87.7495 %	101.1545 %	93.4714 %	91.8572 %	93.2301 %	97.6704 %
Concentration per Run 2	0.6761 ppm	88.5648 %	100.8622 %	93.2142 %	93.4549 %	92.9320 %	97.3502 %
Concentration per Run 3	0.6738 ppm	90.9302 %	100.7403 %	93.3751 %	95.5705 %	93.3951 %	97.0554 %
Concentration RSD	0.2 %	1.9 %	0.2 %	0.1 %	2.0 %	0.3 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037379-4 WG2037379
Analysis started at: 3/7/2025 4:24:53 PM
Comments <Comment>
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Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0402 ppm	0.0005 ppm	0.0075 ppm	0.1632 ppm	0.0000 ppm	1.6353 ppm
Concentration per Run 1	0.0001 ppm	0.0307 ppm	-0.0003 ppm	0.0073 ppm	0.1671 ppm	0.0000 ppm	1.6672 ppm
Concentration per Run 2	0.0000 ppm	0.0460 ppm	0.0007 ppm	0.0079 ppm	0.1620 ppm	0.0001 ppm	1.6290 ppm
Concentration per Run 3	-0.0002 ppm	0.0438 ppm	0.0011 ppm	0.0074 ppm	0.1604 ppm	0.0001 ppm	1.6096 ppm
Concentration RSD	643.7 %	20.5 %	146.1 %	4.2 %	2.2 %	106.5 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0022 ppm	0.0577 ppm	0.2731 ppm	0.0022 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0021 ppm	0.0610 ppm	0.2959 ppm	0.0032 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0022 ppm	0.0561 ppm	0.2727 ppm	0.0013 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0024 ppm	0.0560 ppm	0.2505 ppm	0.0022 ppm
Concentration RSD	4.6 %	187.7 %	33.3 %	6.0 %	4.9 %	8.3 %	42.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.3996 ppm	0.0165 ppm	0.0014 ppm	144.5109 ppm	0.0005 ppm	0.0594 ppm	0.0007 ppm
Concentration per Run 1	0.3963 ppm	0.0165 ppm	0.0016 ppm	148.4861 ppm	0.0006 ppm	0.0592 ppm	0.0002 ppm
Concentration per Run 2	0.4029 ppm	0.0168 ppm	0.0013 ppm	143.6813 ppm	0.0004 ppm	0.0594 ppm	0.0016 ppm
Concentration per Run 3	0.3996 ppm	0.0162 ppm	0.0012 ppm	141.3653 ppm	0.0005 ppm	0.0595 ppm	0.0003 ppm
Concentration RSD	0.8 %	1.8 %	16.9 %	2.5 %	18.6 %	0.2 %	117.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	0.2495 ppm	0.0017 ppm	0.0184 ppm	0.0048 ppm	-0.0022 ppm	0.0003 ppm
Concentration per Run 1	0.0007 ppm	0.2492 ppm	0.0013 ppm	0.0189 ppm	0.0044 ppm	-0.0022 ppm	0.0003 ppm
Concentration per Run 2	0.0015 ppm	0.2494 ppm	0.0017 ppm	0.0182 ppm	0.0051 ppm	-0.0020 ppm	0.0005 ppm
Concentration per Run 3	-0.0011 ppm	0.2499 ppm	0.0022 ppm	0.0179 ppm	0.0048 ppm	-0.0023 ppm	0.0000 ppm
Concentration RSD	363.2 %	0.2 %	27.7 %	2.8 %	7.4 %	7.1 %	109.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1513 ppm	89.8616 %	101.7055 %	94.5179 %	93.6393 %	94.4356 %	98.5371 %
Concentration per Run 1	0.1513 ppm	87.4736 %	101.9387 %	94.5026 %	91.2145 %	94.2072 %	99.0113 %
Concentration per Run 2	0.1512 ppm	90.2216 %	101.5426 %	94.5126 %	93.9535 %	94.5793 %	98.2302 %
Concentration per Run 3	0.1513 ppm	91.8895 %	101.6353 %	94.5386 %	95.7499 %	94.5202 %	98.3699 %
Concentration RSD	0.0 %	2.5 %	0.2 %	0.0 %	2.4 %	0.2 %	0.4 %

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LabBook: WG2037545_03072025T5.imexp

Sample: WG2037379-5 WG2037379
Analysis started at: 3/7/2025 4:31:11 PM
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Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0752 ppm	2.0151 ppm	0.1166 ppm	0.9625 ppm	2.1452 ppm	0.0470 ppm	11.5179 ppm
Concentration per Run 1	0.0757 ppm	2.0734 ppm	0.1149 ppm	0.9610 ppm	2.2090 ppm	0.0477 ppm	11.7910 ppm
Concentration per Run 2	0.0750 ppm	1.9849 ppm	0.1165 ppm	0.9627 ppm	2.0993 ppm	0.0465 ppm	11.3771 ppm
Concentration per Run 3	0.0750 ppm	1.9871 ppm	0.1182 ppm	0.9638 ppm	2.1273 ppm	0.0466 ppm	11.3856 ppm
Concentration RSD	0.5 %	2.5 %	1.4 %	0.1 %	2.7 %	1.4 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0525 ppm	0.4766 ppm	0.1919 ppm	0.2414 ppm	1.0571 ppm	11.3396 ppm	0.0046 ppm
Concentration per Run 1	0.0526 ppm	0.4754 ppm	0.1918 ppm	0.2415 ppm	1.0798 ppm	11.5635 ppm	0.0051 ppm
Concentration per Run 2	0.0525 ppm	0.4768 ppm	0.1920 ppm	0.2417 ppm	1.0454 ppm	11.2243 ppm	0.0042 ppm
Concentration per Run 3	0.0525 ppm	0.4774 ppm	0.1919 ppm	0.2409 ppm	1.0461 ppm	11.2310 ppm	0.0046 ppm
Concentration RSD	0.1 %	0.2 %	0.0 %	0.2 %	1.9 %	1.7 %	9.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.6526 ppm	0.5054 ppm	0.9575 ppm	155.3908 ppm	0.5113 ppm	0.5479 ppm	0.4976 ppm
Concentration per Run 1	10.6413 ppm	0.5158 ppm	0.9544 ppm	159.3186 ppm	0.5106 ppm	0.5470 ppm	0.4963 ppm
Concentration per Run 2	10.6558 ppm	0.4994 ppm	0.9580 ppm	154.9581 ppm	0.5117 ppm	0.5475 ppm	0.4989 ppm
Concentration per Run 3	10.6605 ppm	0.5011 ppm	0.9600 ppm	151.8958 ppm	0.5117 ppm	0.5492 ppm	0.4977 ppm
Concentration RSD	0.1 %	1.8 %	0.3 %	2.4 %	0.1 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1135 ppm	0.9295 ppm	0.9219 ppm	0.9649 ppm	1.0336 ppm	0.1161 ppm	0.5030 ppm
Concentration per Run 1	0.1169 ppm	0.9296 ppm	0.9204 ppm	0.9837 ppm	1.0341 ppm	0.1166 ppm	0.5025 ppm
Concentration per Run 2	0.1104 ppm	0.9295 ppm	0.9231 ppm	0.9544 ppm	1.0329 ppm	0.1151 ppm	0.5033 ppm
Concentration per Run 3	0.1133 ppm	0.9295 ppm	0.9222 ppm	0.9565 ppm	1.0337 ppm	0.1167 ppm	0.5032 ppm
Concentration RSD	2.9 %	0.0 %	0.1 %	1.7 %	0.1 %	0.8 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6690 ppm	90.7229 %	101.3395 %	93.7252 %	95.1756 %	93.4084 %	97.2721 %
Concentration per Run 1	0.6683 ppm	88.2287 %	101.4974 %	93.6733 %	93.1550 %	93.5630 %	97.2988 %
Concentration per Run 2	0.6695 ppm	91.8518 %	101.3756 %	93.8014 %	95.7364 %	93.3480 %	97.3546 %
Concentration per Run 3	0.6693 ppm	92.0882 %	101.1456 %	93.7010 %	96.6354 %	93.3144 %	97.1627 %
Concentration RSD	0.1 %	2.4 %	0.2 %	0.1 %	1.9 %	0.1 %	0.1 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037379-6D5 WG2037379
Analysis started at: 3/7/2025 4:37:25 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0131 ppm	-0.0003 ppm	0.0022 ppm	0.0387 ppm	0.0001 ppm	0.3882 ppm
Concentration per Run 1	0.0001 ppm	0.0122 ppm	0.0000 ppm	0.0024 ppm	0.0391 ppm	0.0000 ppm	0.3941 ppm
Concentration per Run 2	0.0001 ppm	0.0060 ppm	-0.0017 ppm	0.0022 ppm	0.0391 ppm	0.0001 ppm	0.3892 ppm
Concentration per Run 3	0.0008 ppm	0.0212 ppm	0.0009 ppm	0.0020 ppm	0.0378 ppm	0.0000 ppm	0.3814 ppm
Concentration RSD	105.0 %	58.3 %	466.7 %	10.4 %	1.9 %	104.5 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0141 ppm	0.0913 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0149 ppm	0.1062 ppm	0.0011 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0142 ppm	0.0861 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.0132 ppm	0.0815 ppm	0.0001 ppm
Concentration RSD	33.2 %	12.6 %	62.0 %	10.3 %	6.0 %	14.4 %	77.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0942 ppm	0.0038 ppm	0.0006 ppm	34.2449 ppm	0.0003 ppm	0.0127 ppm	0.0005 ppm
Concentration per Run 1	0.0953 ppm	0.0037 ppm	0.0007 ppm	34.7155 ppm	0.0005 ppm	0.0126 ppm	0.0013 ppm
Concentration per Run 2	0.0933 ppm	0.0039 ppm	0.0008 ppm	34.4569 ppm	0.0001 ppm	0.0130 ppm	-0.0007 ppm
Concentration per Run 3	0.0940 ppm	0.0037 ppm	0.0004 ppm	33.5623 ppm	0.0002 ppm	0.0125 ppm	0.0008 ppm
Concentration RSD	1.1 %	3.7 %	32.4 %	1.8 %	79.4 %	2.1 %	230.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	0.0534 ppm	0.0005 ppm	0.0042 ppm	0.0013 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0008 ppm	0.0541 ppm	0.0010 ppm	0.0043 ppm	0.0015 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0016 ppm	0.0530 ppm	0.0002 ppm	0.0042 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0531 ppm	0.0004 ppm	0.0042 ppm	0.0011 ppm	-0.0001 ppm	0.0001 ppm
Concentration RSD	391.9 %	1.2 %	77.3 %	2.1 %	17.1 %	248.7 %	115.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0331 ppm	90.4191 %	105.7210 %	97.4263 %	94.7763 %	101.4392 %	101.3047 %
Concentration per Run 1	0.0332 ppm	89.0340 %	105.8295 %	97.2468 %	93.4876 %	101.3432 %	101.3414 %
Concentration per Run 2	0.0330 ppm	90.6050 %	105.8434 %	97.6069 %	94.7403 %	101.5887 %	101.3196 %
Concentration per Run 3	0.0332 ppm	91.6184 %	105.4900 %	97.4251 %	96.1011 %	101.3858 %	101.2530 %
Concentration RSD	0.4 %	1.4 %	0.2 %	0.2 %	1.4 %	0.1 %	0.0 %

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3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 4:43:48 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5027 ppm	0.5045 ppm	0.4666 ppm	0.4749 ppm	0.4999 ppm	0.4703 ppm	0.5075 ppm
Concentration per Run 1	0.5020 ppm	0.4914 ppm	0.4634 ppm	0.4713 ppm	0.4908 ppm	0.4602 ppm	0.4982 ppm
Concentration per Run 2	0.5072 ppm	0.5144 ppm	0.4696 ppm	0.4786 ppm	0.5096 ppm	0.4773 ppm	0.5071 ppm
Concentration per Run 3	0.4990 ppm	0.5077 ppm	0.4668 ppm	0.4749 ppm	0.4992 ppm	0.4734 ppm	0.5173 ppm
Recovery Percentage 1	100.542 %	100.900 %	93.315 %	94.989 %	99.975 %	94.061 %	101.506 %
Concentration RSD	0.8 %	2.4 %	0.7 %	0.8 %	1.9 %	1.9 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4732 ppm	0.4766 ppm	0.4864 ppm	0.4739 ppm	0.5040 ppm	5.3158 ppm	0.4562 ppm
Concentration per Run 1	0.4701 ppm	0.4736 ppm	0.4838 ppm	0.4709 ppm	0.4933 ppm	5.2025 ppm	0.4471 ppm
Concentration per Run 2	0.4768 ppm	0.4798 ppm	0.4927 ppm	0.4799 ppm	0.5104 ppm	5.4276 ppm	0.4637 ppm
Concentration per Run 3	0.4727 ppm	0.4763 ppm	0.4827 ppm	0.4708 ppm	0.5084 ppm	5.3173 ppm	0.4579 ppm
Recovery Percentage 1	94.645 %	95.314 %	97.279 %	94.774 %	100.807 %	106.316 %	91.248 %
Concentration RSD	0.7 %	0.6 %	1.1 %	1.1 %	1.9 %	2.1 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5417 ppm	0.4936 ppm	0.4539 ppm	9.5148 ppm	0.5094 ppm	0.4557 ppm	0.4879 ppm
Concentration per Run 1	0.5386 ppm	0.4825 ppm	0.4488 ppm	9.3130 ppm	0.5067 ppm	0.4523 ppm	0.4852 ppm
Concentration per Run 2	0.5501 ppm	0.5009 ppm	0.4577 ppm	9.6618 ppm	0.5129 ppm	0.4592 ppm	0.4896 ppm
Concentration per Run 3	0.5365 ppm	0.4974 ppm	0.4551 ppm	9.5697 ppm	0.5087 ppm	0.4556 ppm	0.4888 ppm
Recovery Percentage 1	108.349 %	98.721 %	90.771 %	95.148 %	101.888 %	91.139 %	97.572 %
Concentration RSD	1.4 %	2.0 %	1.0 %	1.9 %	0.6 %	0.7 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4549 ppm	5.4935 ppm	0.4702 ppm	0.4811 ppm	0.5136 ppm	0.5025 ppm	0.4971 ppm
Concentration per Run 1	0.4510 ppm	5.4597 ppm	0.4661 ppm	0.4706 ppm	0.5119 ppm	0.4989 ppm	0.4943 ppm
Concentration per Run 2	0.4591 ppm	5.5315 ppm	0.4740 ppm	0.4886 ppm	0.5200 ppm	0.5084 ppm	0.5042 ppm
Concentration per Run 3	0.4545 ppm	5.4893 ppm	0.4705 ppm	0.4842 ppm	0.5089 ppm	0.5002 ppm	0.4928 ppm
Recovery Percentage 1	90.971 %	104.637 %	94.044 %	96.226 %	102.721 %	100.500 %	99.420 %
Concentration RSD	0.9 %	0.7 %	0.8 %	1.9 %	1.1 %	1.0 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4947 ppm	93.2749 %	107.0844 %	97.9886 %	97.8309 %	102.5789 %	102.3341 %
Concentration per Run 1	0.4910 ppm	94.4824 %	107.0303 %	98.4154 %	99.2841 %	103.3201 %	102.6844 %
Concentration per Run 2	0.4986 ppm	91.6425 %	106.8513 %	97.5155 %	96.4328 %	101.8327 %	101.2073 %
Concentration per Run 3	0.4944 ppm	93.6997 %	107.3717 %	98.0350 %	97.7759 %	102.5839 %	103.1107 %
Recovery Percentage 1	98.932 %						
Concentration RSD	0.8 %	1.6 %	0.2 %	0.5 %	1.5 %	0.7 %	1.0 %

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 4:50:05 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0073 ppm	0.0002 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 1	0.0001 ppm	-0.0044 ppm	0.0006 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	0.0002 ppm	-0.0128 ppm	0.0009 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 3	-0.0005 ppm	-0.0046 ppm	-0.0010 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0048 ppm
Recovery Percentage 1	-0.698 %	-7.274 %	3.297 %	1.577 %	-2.478 %	0.320 %	2.301 %
Concentration RSD	724.4 %	65.9 %	615.2 %	28.6 %	47.4 %	101.5 %	274.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	-0.0009 ppm	0.0189 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0018 ppm	0.0139 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0339 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0005 ppm	0.0089 ppm	0.0006 ppm
Recovery Percentage 1	1.033 %	-0.204 %	-0.716 %	3.619 %	-1.705 %	0.755 %	4.037 %
Concentration RSD	31.6 %	283.0 %	64.0 %	22.5 %	94.3 %	70.0 %	378.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0017 ppm	0.0002 ppm	0.0004 ppm	0.0186 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	0.0011 ppm	0.0003 ppm	0.0005 ppm	0.0196 ppm	0.0004 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0138 ppm	0.0005 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 3	0.0041 ppm	0.0003 ppm	0.0004 ppm	0.0225 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage 1	1.677 %	1.952 %	0.810 %	0.931 %	1.480 %	0.145 %	-0.681 %
Concentration RSD	130.7 %	129.5 %	15.0 %	23.8 %	22.1 %	884.0 %	167.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	-0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	-0.0005 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 3	0.0018 ppm	-0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	-0.0001 ppm
Recovery Percentage 1	6.232 %	-0.130 %	0.604 %	-0.858 %	0.990 %	-4.755 %	0.266 %
Concentration RSD	158.5 %	63.9 %	20.8 %	57.2 %	142.2 %	9.4 %	493.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	93.9757 %	106.9471 %	98.7288 %	97.5707 %	103.5152 %	102.2639 %
Concentration per Run 1	0.0000 ppm	95.1753 %	106.9621 %	98.8040 %	99.0415 %	103.4705 %	102.3062 %
Concentration per Run 2	0.0001 ppm	93.2068 %	107.0688 %	98.7422 %	96.7388 %	103.3989 %	102.5558 %
Concentration per Run 3	0.0002 ppm	93.5450 %	106.8105 %	98.6402 %	96.9318 %	103.6762 %	101.9298 %
Recovery Percentage 1	1.999 %						
Concentration RSD	58.1 %	1.1 %	0.1 %	0.1 %	1.3 %	0.1 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037336-1 WG2037336
Analysis started at: 3/7/2025 5:00:13 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0082 ppm	0.0048 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0155 ppm
Concentration per Run 1	0.0001 ppm	0.0071 ppm	0.0045 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0195 ppm
Concentration per Run 2	0.0002 ppm	0.0060 ppm	0.0037 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0195 ppm
Concentration per Run 3	0.0007 ppm	0.0116 ppm	0.0061 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0075 ppm
Concentration RSD	97.9 %	36.3 %	26.0 %	57.0 %	176.5 %	180.3 %	44.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm	-0.0166 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.0023 ppm	-0.0316 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm	0.0041 ppm	-0.0050 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0033 ppm	-0.0131 ppm	-0.0007 ppm
Concentration RSD	41.3 %	20.8 %	809.7 %	2,948.6 %	26.9 %	82.2 %	46.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0050 ppm	0.0006 ppm	0.0000 ppm	0.0047 ppm	-0.0002 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0055 ppm	0.0002 ppm	-0.0002 ppm	0.0031 ppm	-0.0003 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 2	0.0063 ppm	0.0010 ppm	0.0001 ppm	0.0077 ppm	-0.0002 ppm	-0.0002 ppm	-0.0013 ppm
Concentration per Run 3	0.0032 ppm	0.0006 ppm	0.0000 ppm	0.0033 ppm	-0.0003 ppm	0.0000 ppm	0.0010 ppm
Concentration RSD	31.5 %	64.6 %	9,376.6 %	55.1 %	31.8 %	86.8 %	366.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	0.0156 ppm	0.0081 ppm	0.0000 ppm	0.0001 ppm	-0.0068 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0161 ppm	0.0081 ppm	0.0000 ppm	0.0002 ppm	-0.0065 ppm	0.0000 ppm
Concentration per Run 2	0.0008 ppm	0.0153 ppm	0.0084 ppm	-0.0001 ppm	0.0002 ppm	-0.0065 ppm	-0.0002 ppm
Concentration per Run 3	-0.0023 ppm	0.0154 ppm	0.0079 ppm	0.0000 ppm	0.0000 ppm	-0.0073 ppm	-0.0002 ppm
Concentration RSD	402.9 %	2.8 %	3.5 %	366.7 %	82.3 %	6.4 %	96.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0023 ppm	95.4218 %	108.6083 %	99.2852 %	99.5788 %	97.8430 %	105.5686 %
Concentration per Run 1	0.0023 ppm	95.2523 %	108.4064 %	99.0965 %	100.4280 %	97.6742 %	105.1436 %
Concentration per Run 2	0.0023 ppm	94.7975 %	108.6660 %	99.2508 %	98.7927 %	97.9075 %	105.9180 %
Concentration per Run 3	0.0023 ppm	96.2156 %	108.7526 %	99.5085 %	99.5156 %	97.9474 %	105.6441 %
Concentration RSD	1.9 %	0.8 %	0.2 %	0.2 %	0.8 %	0.2 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: I2510432-01d2 WG2037336
Analysis started at: 3/7/2025 5:06:46 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0067 ppm	0.0020 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0237 ppm
Concentration per Run 1	0.0003 ppm	0.0057 ppm	0.0019 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0216 ppm
Concentration per Run 2	0.0004 ppm	0.0051 ppm	0.0028 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0273 ppm
Concentration per Run 3	0.0002 ppm	0.0092 ppm	0.0013 ppm	0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0222 ppm
Concentration RSD	36.1 %	33.8 %	37.7 %	318.7 %	20.7 %	413.8 %	13.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0034 ppm	0.0362 ppm	-0.0219 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0032 ppm	0.0343 ppm	-0.0177 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0037 ppm	0.0372 ppm	-0.0049 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0032 ppm	0.0369 ppm	-0.0431 ppm	-0.0002 ppm
Concentration RSD	141.8 %	25.3 %	70.1 %	7.8 %	4.4 %	88.8 %	146.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0051 ppm	0.0006 ppm	-0.0001 ppm	0.0126 ppm	0.0054 ppm	0.0015 ppm	-0.0011 ppm
Concentration per Run 1	0.0037 ppm	0.0006 ppm	-0.0002 ppm	0.0151 ppm	0.0056 ppm	0.0016 ppm	-0.0013 ppm
Concentration per Run 2	0.0038 ppm	0.0006 ppm	0.0000 ppm	0.0088 ppm	0.0053 ppm	0.0013 ppm	-0.0005 ppm
Concentration per Run 3	0.0080 ppm	0.0006 ppm	-0.0001 ppm	0.0140 ppm	0.0053 ppm	0.0016 ppm	-0.0014 ppm
Concentration RSD	48.1 %	5.2 %	67.5 %	26.8 %	2.7 %	11.2 %	44.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0165 ppm	0.0036 ppm	0.0002 ppm	0.0018 ppm	-0.0039 ppm	0.0365 ppm
Concentration per Run 1	-0.0003 ppm	0.0163 ppm	0.0039 ppm	0.0002 ppm	0.0019 ppm	-0.0027 ppm	0.0360 ppm
Concentration per Run 2	-0.0016 ppm	0.0166 ppm	0.0037 ppm	0.0001 ppm	0.0018 ppm	-0.0043 ppm	0.0366 ppm
Concentration per Run 3	0.0001 ppm	0.0166 ppm	0.0031 ppm	0.0002 ppm	0.0017 ppm	-0.0049 ppm	0.0368 ppm
Concentration RSD	151.1 %	0.9 %	11.6 %	25.8 %	4.4 %	28.9 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	100.7294 %	110.7149 %	101.7608 %	103.8866 %	104.0311 %	106.8503 %
Concentration per Run 1	0.0004 ppm	102.9178 %	110.6516 %	101.4394 %	106.5200 %	103.4888 %	107.6513 %
Concentration per Run 2	0.0004 ppm	99.8667 %	110.7258 %	102.0200 %	102.8714 %	104.1056 %	106.3589 %
Concentration per Run 3	0.0004 ppm	99.4038 %	110.7675 %	101.8231 %	102.2684 %	104.4989 %	106.5405 %
Concentration RSD	2.3 %	1.9 %	0.1 %	0.3 %	2.2 %	0.5 %	0.7 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037336-3d2 WG2037336
Analysis started at: 3/7/2025 5:13:19 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0454 ppm	1.8934 ppm	0.1012 ppm	0.8213 ppm	1.8952 ppm	0.0443 ppm	9.2184 ppm
Concentration per Run 1	0.0456 ppm	1.8494 ppm	0.1041 ppm	0.8274 ppm	1.8565 ppm	0.0431 ppm	8.9919 ppm
Concentration per Run 2	0.0451 ppm	1.9174 ppm	0.1006 ppm	0.8205 ppm	1.9157 ppm	0.0447 ppm	9.3246 ppm
Concentration per Run 3	0.0454 ppm	1.9134 ppm	0.0990 ppm	0.8160 ppm	1.9135 ppm	0.0449 ppm	9.3386 ppm
Concentration RSD	0.5 %	2.0 %	2.5 %	0.7 %	1.8 %	2.3 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0444 ppm	0.4270 ppm	0.1758 ppm	0.2304 ppm	0.9816 ppm	9.4824 ppm	0.0004 ppm
Concentration per Run 1	0.0447 ppm	0.4303 ppm	0.1770 ppm	0.2323 ppm	0.9550 ppm	9.2382 ppm	-0.0004 ppm
Concentration per Run 2	0.0445 ppm	0.4271 ppm	0.1764 ppm	0.2310 ppm	0.9953 ppm	9.6091 ppm	0.0009 ppm
Concentration per Run 3	0.0441 ppm	0.4237 ppm	0.1739 ppm	0.2279 ppm	0.9946 ppm	9.6000 ppm	0.0007 ppm
Concentration RSD	0.7 %	0.8 %	0.9 %	1.0 %	2.3 %	2.2 %	171.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.0803 ppm	0.4611 ppm	0.8381 ppm	9.0859 ppm	0.4551 ppm	0.4308 ppm	0.4430 ppm
Concentration per Run 1	9.1408 ppm	0.4492 ppm	0.8441 ppm	8.8754 ppm	0.4584 ppm	0.4340 ppm	0.4463 ppm
Concentration per Run 2	9.0935 ppm	0.4666 ppm	0.8382 ppm	9.1834 ppm	0.4553 ppm	0.4308 ppm	0.4417 ppm
Concentration per Run 3	9.0066 ppm	0.4676 ppm	0.8321 ppm	9.1987 ppm	0.4517 ppm	0.4274 ppm	0.4411 ppm
Concentration RSD	0.7 %	2.2 %	0.7 %	2.0 %	0.7 %	0.8 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0970 ppm	1.1744 ppm	0.8006 ppm	0.8861 ppm	0.9111 ppm	0.1035 ppm	0.4733 ppm
Concentration per Run 1	0.0986 ppm	1.1825 ppm	0.8076 ppm	0.8642 ppm	0.9174 ppm	0.1047 ppm	0.4770 ppm
Concentration per Run 2	0.0962 ppm	1.1758 ppm	0.7996 ppm	0.8959 ppm	0.9127 ppm	0.1024 ppm	0.4742 ppm
Concentration per Run 3	0.0964 ppm	1.1648 ppm	0.7946 ppm	0.8984 ppm	0.9034 ppm	0.1033 ppm	0.4687 ppm
Concentration RSD	1.4 %	0.8 %	0.8 %	2.2 %	0.8 %	1.1 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4289 ppm	100.3290 %	108.8560 %	100.2213 %	105.6842 %	101.6093 %	106.3522 %
Concentration per Run 1	0.4322 ppm	102.4324 %	109.0000 %	100.1904 %	108.2346 %	101.5332 %	106.3104 %
Concentration per Run 2	0.4284 ppm	99.3469 %	108.9310 %	100.2039 %	104.6460 %	101.6194 %	106.3312 %
Concentration per Run 3	0.4261 ppm	99.2077 %	108.6372 %	100.2698 %	104.1720 %	101.6754 %	106.4150 %
Concentration RSD	0.7 %	1.8 %	0.2 %	0.0 %	2.1 %	0.1 %	0.1 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037336-4d2 WG2037336
Analysis started at: 3/7/2025 5:19:33 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0036 ppm	0.0037 ppm	0.0007 ppm	0.0007 ppm	0.0000 ppm	0.0219 ppm
Concentration per Run 1	0.0002 ppm	-0.0007 ppm	0.0044 ppm	0.0008 ppm	0.0007 ppm	0.0000 ppm	0.0213 ppm
Concentration per Run 2	0.0003 ppm	0.0001 ppm	0.0035 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm	0.0229 ppm
Concentration per Run 3	0.0004 ppm	0.0114 ppm	0.0032 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0214 ppm
Concentration RSD	29.3 %	188.2 %	16.4 %	14.3 %	5.6 %	140.9 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0037 ppm	0.0447 ppm	-0.0145 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0036 ppm	0.0440 ppm	-0.0256 ppm	-0.0017 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0037 ppm	0.0442 ppm	-0.0236 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0038 ppm	0.0459 ppm	0.0056 ppm	0.0001 ppm
Concentration RSD	53.4 %	62.1 %	27.5 %	3.3 %	2.4 %	120.5 %	98.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0047 ppm	0.0007 ppm	0.0004 ppm	0.0049 ppm	0.0062 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 1	0.0036 ppm	0.0010 ppm	0.0006 ppm	0.0062 ppm	0.0063 ppm	0.0004 ppm	0.0011 ppm
Concentration per Run 2	0.0053 ppm	0.0006 ppm	0.0004 ppm	0.0106 ppm	0.0062 ppm	0.0010 ppm	0.0008 ppm
Concentration per Run 3	0.0052 ppm	0.0007 ppm	0.0003 ppm	-0.0021 ppm	0.0061 ppm	0.0016 ppm	-0.0004 ppm
Concentration RSD	20.0 %	26.3 %	41.7 %	131.6 %	1.9 %	60.4 %	162.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0163 ppm	0.0043 ppm	0.0002 ppm	0.0024 ppm	-0.0047 ppm	0.0427 ppm
Concentration per Run 1	-0.0001 ppm	0.0173 ppm	0.0041 ppm	0.0002 ppm	0.0020 ppm	-0.0044 ppm	0.0427 ppm
Concentration per Run 2	-0.0016 ppm	0.0170 ppm	0.0043 ppm	0.0001 ppm	0.0025 ppm	-0.0044 ppm	0.0430 ppm
Concentration per Run 3	-0.0001 ppm	0.0147 ppm	0.0044 ppm	0.0002 ppm	0.0026 ppm	-0.0052 ppm	0.0423 ppm
Concentration RSD	142.0 %	8.8 %	3.4 %	59.2 %	12.5 %	10.1 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	100.0271 %	111.3139 %	102.4649 %	104.0388 %	104.7362 %	108.1964 %
Concentration per Run 1	0.0004 ppm	100.4524 %	111.0810 %	102.5821 %	104.6173 %	104.7786 %	108.0309 %
Concentration per Run 2	0.0004 ppm	99.7277 %	111.7359 %	102.4712 %	103.7606 %	104.6762 %	107.3406 %
Concentration per Run 3	0.0005 ppm	99.9013 %	111.1250 %	102.3413 %	103.7383 %	104.7538 %	109.2178 %
Concentration RSD	6.2 %	0.4 %	0.3 %	0.1 %	0.5 %	0.1 %	0.9 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037336-5d2 WG2037336
Analysis started at: 3/7/2025 5:26:06 PM
Comments <Comment>
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0296 ppm	2.1652 ppm	0.1205 ppm	0.9202 ppm	2.1796 ppm	0.0514 ppm	10.8769 ppm
Concentration per Run 1	0.0294 ppm	2.2436 ppm	0.1198 ppm	0.9219 ppm	2.2619 ppm	0.0532 ppm	11.2895 ppm
Concentration per Run 2	0.0299 ppm	2.1409 ppm	0.1205 ppm	0.9195 ppm	2.1695 ppm	0.0511 ppm	10.8283 ppm
Concentration per Run 3	0.0295 ppm	2.1111 ppm	0.1213 ppm	0.9191 ppm	2.1074 ppm	0.0498 ppm	10.5130 ppm
Concentration RSD	0.8 %	3.2 %	0.6 %	0.2 %	3.6 %	3.4 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0506 ppm	0.4771 ppm	0.1955 ppm	0.2550 ppm	1.1375 ppm	11.3460 ppm	-0.0005 ppm
Concentration per Run 1	0.0508 ppm	0.4779 ppm	0.1960 ppm	0.2558 ppm	1.1790 ppm	11.7653 ppm	-0.0008 ppm
Concentration per Run 2	0.0505 ppm	0.4769 ppm	0.1960 ppm	0.2549 ppm	1.1342 ppm	11.2819 ppm	0.0006 ppm
Concentration per Run 3	0.0506 ppm	0.4764 ppm	0.1945 ppm	0.2543 ppm	1.0993 ppm	10.9908 ppm	-0.0013 ppm
Concentration RSD	0.3 %	0.2 %	0.4 %	0.3 %	3.5 %	3.4 %	190.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3415 ppm	0.5380 ppm	0.9469 ppm	10.6502 ppm	0.5124 ppm	0.4979 ppm	0.4874 ppm
Concentration per Run 1	10.3712 ppm	0.5584 ppm	0.9485 ppm	11.0562 ppm	0.5140 ppm	0.4986 ppm	0.4867 ppm
Concentration per Run 2	10.3667 ppm	0.5358 ppm	0.9454 ppm	10.5901 ppm	0.5119 ppm	0.4985 ppm	0.4878 ppm
Concentration per Run 3	10.2865 ppm	0.5199 ppm	0.9468 ppm	10.3044 ppm	0.5114 ppm	0.4966 ppm	0.4875 ppm
Concentration RSD	0.5 %	3.6 %	0.2 %	3.6 %	0.3 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1124 ppm	0.6600 ppm	0.9181 ppm	1.0285 ppm	1.0125 ppm	0.1184 ppm	0.5361 ppm
Concentration per Run 1	0.1119 ppm	0.6595 ppm	0.9198 ppm	1.0679 ppm	1.0144 ppm	0.1192 ppm	0.5372 ppm
Concentration per Run 2	0.1137 ppm	0.6610 ppm	0.9179 ppm	1.0223 ppm	1.0148 ppm	0.1188 ppm	0.5365 ppm
Concentration per Run 3	0.1117 ppm	0.6595 ppm	0.9168 ppm	0.9952 ppm	1.0084 ppm	0.1173 ppm	0.5346 ppm
Concentration RSD	1.0 %	0.1 %	0.2 %	3.6 %	0.4 %	0.9 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4859 ppm	90.5796 %	107.6108 %	98.8640 %	95.1022 %	101.0485 %	105.0000 %
Concentration per Run 1	0.4869 ppm	87.3216 %	107.6306 %	98.9320 %	91.8193 %	101.1077 %	105.0044 %
Concentration per Run 2	0.4856 ppm	91.2426 %	107.2703 %	98.9883 %	95.8063 %	101.2386 %	104.5458 %
Concentration per Run 3	0.4852 ppm	93.1747 %	107.9315 %	98.6719 %	97.6811 %	100.7990 %	105.4499 %
Concentration RSD	0.2 %	3.3 %	0.3 %	0.2 %	3.1 %	0.2 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037336-6d10 WG2037336
Analysis started at: 3/7/2025 5:32:20 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0103 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0112 ppm
Concentration per Run 1	0.0004 ppm	0.0016 ppm	0.0012 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 2	0.0002 ppm	0.0130 ppm	-0.0008 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0109 ppm
Concentration per Run 3	-0.0003 ppm	0.0163 ppm	-0.0001 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0122 ppm
Concentration RSD	294.5 %	75.2 %	899.4 %	8.7 %	146.3 %	254.7 %	8.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0092 ppm	-0.0057 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0088 ppm	0.0082 ppm	-0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0097 ppm	-0.0275 ppm	-0.0021 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0093 ppm	0.0022 ppm	-0.0003 ppm
Concentration RSD	331.2 %	65.6 %	110.9 %	14.3 %	4.5 %	335.2 %	73.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0045 ppm	0.0001 ppm	0.0004 ppm	0.0082 ppm	0.0014 ppm	0.0005 ppm	0.0014 ppm
Concentration per Run 1	0.0052 ppm	0.0000 ppm	0.0003 ppm	0.0067 ppm	0.0013 ppm	0.0007 ppm	0.0018 ppm
Concentration per Run 2	0.0052 ppm	0.0002 ppm	0.0004 ppm	0.0150 ppm	0.0016 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0031 ppm	0.0001 ppm	0.0005 ppm	0.0030 ppm	0.0013 ppm	0.0009 ppm	0.0018 ppm
Concentration RSD	26.8 %	120.0 %	19.9 %	74.5 %	10.5 %	115.0 %	53.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.0032 ppm	0.0011 ppm	0.0000 ppm	0.0005 ppm	-0.0026 ppm	0.0074 ppm
Concentration per Run 1	0.0016 ppm	0.0035 ppm	0.0014 ppm	0.0001 ppm	0.0006 ppm	-0.0026 ppm	0.0074 ppm
Concentration per Run 2	0.0018 ppm	0.0027 ppm	0.0011 ppm	0.0000 ppm	0.0004 ppm	-0.0029 ppm	0.0075 ppm
Concentration per Run 3	-0.0003 ppm	0.0034 ppm	0.0007 ppm	0.0001 ppm	0.0006 ppm	-0.0022 ppm	0.0074 ppm
Concentration RSD	115.7 %	13.8 %	30.7 %	157.5 %	26.9 %	13.1 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	98.8691 %	111.9478 %	102.7766 %	104.3857 %	108.6059 %	107.6336 %
Concentration per Run 1	0.0002 ppm	98.7376 %	111.6919 %	102.9774 %	104.1240 %	108.9100 %	106.8272 %
Concentration per Run 2	0.0002 ppm	98.6942 %	112.0683 %	102.6769 %	104.4719 %	108.6042 %	107.8801 %
Concentration per Run 3	0.0002 ppm	99.1755 %	112.0834 %	102.6755 %	104.5612 %	108.3036 %	108.1935 %
Concentration RSD	18.6 %	0.3 %	0.2 %	0.2 %	0.2 %	0.3 %	0.7 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 5:38:53 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5008 ppm	0.4881 ppm	0.4691 ppm	0.4740 ppm	0.4882 ppm	0.4559 ppm	0.4929 ppm
Concentration per Run 1	0.4975 ppm	0.4753 ppm	0.4693 ppm	0.4740 ppm	0.4712 ppm	0.4440 ppm	0.4798 ppm
Concentration per Run 2	0.5045 ppm	0.4872 ppm	0.4716 ppm	0.4735 ppm	0.4947 ppm	0.4619 ppm	0.4994 ppm
Concentration per Run 3	0.5002 ppm	0.5019 ppm	0.4662 ppm	0.4745 ppm	0.4987 ppm	0.4619 ppm	0.4996 ppm
Recovery Percentage 1	100.153 %	97.630 %	93.814 %	94.793 %	97.635 %	91.185 %	98.584 %
Concentration RSD	0.7 %	2.7 %	0.6 %	0.1 %	3.0 %	2.3 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4684 ppm	0.4745 ppm	0.4860 ppm	0.4803 ppm	0.4864 ppm	5.0317 ppm	0.4397 ppm
Concentration per Run 1	0.4687 ppm	0.4751 ppm	0.4835 ppm	0.4780 ppm	0.4720 ppm	4.9572 ppm	0.4277 ppm
Concentration per Run 2	0.4686 ppm	0.4742 ppm	0.4892 ppm	0.4839 ppm	0.4929 ppm	5.0729 ppm	0.4455 ppm
Concentration per Run 3	0.4680 ppm	0.4743 ppm	0.4853 ppm	0.4789 ppm	0.4942 ppm	5.0649 ppm	0.4458 ppm
Recovery Percentage 1	93.683 %	94.906 %	97.197 %	96.055 %	97.273 %	100.633 %	87.934 %
Concentration RSD	0.1 %	0.1 %	0.6 %	0.7 %	2.6 %	1.3 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5369 ppm	0.4730 ppm	0.4518 ppm	9.2693 ppm	0.5027 ppm	0.4572 ppm	0.4899 ppm
Concentration per Run 1	0.5310 ppm	0.4612 ppm	0.4511 ppm	9.0460 ppm	0.5032 ppm	0.4571 ppm	0.4905 ppm
Concentration per Run 2	0.5433 ppm	0.4793 ppm	0.4516 ppm	9.3912 ppm	0.5029 ppm	0.4570 ppm	0.4889 ppm
Concentration per Run 3	0.5366 ppm	0.4784 ppm	0.4526 ppm	9.3708 ppm	0.5022 ppm	0.4573 ppm	0.4903 ppm
Recovery Percentage 1	107.387 %	94.597 %	90.359 %	92.693 %	100.550 %	91.432 %	97.980 %
Concentration RSD	1.1 %	2.2 %	0.2 %	2.1 %	0.1 %	0.0 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4586 ppm	5.4866 ppm	0.4695 ppm	0.4592 ppm	0.5083 ppm	0.5050 ppm	0.4955 ppm
Concentration per Run 1	0.4582 ppm	5.4929 ppm	0.4706 ppm	0.4474 ppm	0.5054 ppm	0.5047 ppm	0.4923 ppm
Concentration per Run 2	0.4582 ppm	5.4822 ppm	0.4695 ppm	0.4659 ppm	0.5122 ppm	0.5050 ppm	0.4990 ppm
Concentration per Run 3	0.4594 ppm	5.4845 ppm	0.4683 ppm	0.4643 ppm	0.5072 ppm	0.5052 ppm	0.4952 ppm
Recovery Percentage 1	91.724 %	104.506 %	93.893 %	91.840 %	101.655 %	100.997 %	99.099 %
Concentration RSD	0.2 %	0.1 %	0.2 %	2.2 %	0.7 %	0.1 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4873 ppm	97.8765 %	108.5854 %	100.2612 %	103.5606 %	105.0808 %	104.9485 %
Concentration per Run 1	0.4876 ppm	99.6018 %	108.5657 %	100.2312 %	104.7238 %	105.1173 %	105.4077 %
Concentration per Run 2	0.4875 ppm	97.5891 %	108.6612 %	100.1412 %	103.2792 %	104.9962 %	104.2687 %
Concentration per Run 3	0.4867 ppm	96.4386 %	108.5294 %	100.4113 %	102.6788 %	105.1290 %	105.1692 %
Recovery Percentage 1	97.453 %						
Concentration RSD	0.1 %	1.6 %	0.1 %	0.1 %	1.0 %	0.1 %	0.6 %

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 5:45:10 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0009 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	0.0005 ppm	0.0014 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	0.0002 ppm	0.0041 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0087 ppm
Concentration per Run 3	0.0000 ppm	-0.0081 ppm	-0.0019 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	-0.0035 ppm
Recovery Percentage 1	3.242 %	-0.858 %	-12.278 %	-0.536 %	0.047 %	0.629 %	2.248 %
Concentration RSD	96.9 %	743.9 %	189.0 %	81.2 %	2,875.0 %	109.6 %	270.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	-0.0035 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	-0.0064 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0006 ppm	-0.0003 ppm	-0.0264 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0012 ppm	0.0222 ppm	-0.0008 ppm
Recovery Percentage 1	0.736 %	-0.094 %	-0.326 %	5.770 %	-0.491 %	-0.141 %	-6.220 %
Concentration RSD	96.0 %	256.6 %	603.5 %	7.7 %	393.7 %	694.6 %	76.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0027 ppm	0.0004 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 1	-0.0013 ppm	-0.0002 ppm	0.0006 ppm	0.0037 ppm	0.0003 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 2	0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0145 ppm	0.0006 ppm	0.0004 ppm	-0.0017 ppm
Concentration per Run 3	0.0005 ppm	0.0003 ppm	0.0004 ppm	-0.0102 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm
Recovery Percentage 1	-0.074 %	1.344 %	0.753 %	0.133 %	1.592 %	3.406 %	-1.578 %
Concentration RSD	1,494.7 %	230.2 %	57.4 %	465.7 %	41.1 %	25.3 %	105.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	-0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 1	0.0024 ppm	-0.0007 ppm	0.0004 ppm	-0.0002 ppm	0.0001 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	-0.0015 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	-0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0019 ppm	0.0002 ppm
Recovery Percentage 1	8.105 %	-0.220 %	0.512 %	-0.310 %	0.324 %	-9.386 %	0.352 %
Concentration RSD	167.8 %	37.7 %	45.3 %	352.0 %	530.5 %	8.0 %	444.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	98.2297 %	109.5584 %	101.5671 %	102.4351 %	106.7886 %	104.4258 %
Concentration per Run 1	0.0001 ppm	98.7283 %	109.7287 %	101.4458 %	103.6135 %	107.0339 %	104.3351 %
Concentration per Run 2	0.0000 ppm	97.6998 %	109.5003 %	101.5812 %	101.8675 %	106.5827 %	104.8133 %
Concentration per Run 3	0.0002 ppm	98.2609 %	109.4463 %	101.6743 %	101.8243 %	106.7491 %	104.1290 %
Recovery Percentage 1	2.081 %						
Concentration RSD	64.2 %	0.5 %	0.1 %	0.1 %	1.0 %	0.2 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037408-1 WG2037408
Analysis started at: 3/7/2025 6:06:08 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0140 ppm	-0.0013 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0292 ppm
Concentration per Run 1	0.0003 ppm	0.0131 ppm	-0.0020 ppm	-0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0264 ppm
Concentration per Run 2	0.0001 ppm	0.0120 ppm	-0.0025 ppm	-0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0336 ppm
Concentration per Run 3	0.0004 ppm	0.0169 ppm	0.0007 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0277 ppm
Concentration RSD	46.2 %	18.6 %	133.4 %	26.5 %	19.7 %	35.8 %	13.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0009 ppm	0.0246 ppm	-0.0210 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0235 ppm	-0.0229 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0246 ppm	-0.0330 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0010 ppm	0.0258 ppm	-0.0072 ppm	-0.0002 ppm
Concentration RSD	15.3 %	66.2 %	27.8 %	8.5 %	4.8 %	61.6 %	126.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0068 ppm	0.0007 ppm	-0.0002 ppm	0.0464 ppm	0.0005 ppm	0.0017 ppm	-0.0009 ppm
Concentration per Run 1	0.0054 ppm	0.0009 ppm	-0.0003 ppm	0.0434 ppm	0.0003 ppm	0.0014 ppm	-0.0005 ppm
Concentration per Run 2	0.0073 ppm	0.0004 ppm	-0.0002 ppm	0.0500 ppm	0.0005 ppm	0.0020 ppm	-0.0008 ppm
Concentration per Run 3	0.0076 ppm	0.0009 ppm	-0.0002 ppm	0.0459 ppm	0.0005 ppm	0.0017 ppm	-0.0013 ppm
Concentration RSD	17.6 %	34.3 %	40.3 %	7.2 %	23.8 %	18.5 %	47.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0105 ppm	0.0049 ppm	0.0000 ppm	0.0004 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 1	-0.0012 ppm	0.0100 ppm	0.0048 ppm	0.0001 ppm	0.0005 ppm	-0.0019 ppm	-0.0002 ppm
Concentration per Run 2	0.0004 ppm	0.0106 ppm	0.0052 ppm	0.0000 ppm	0.0004 ppm	-0.0017 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0110 ppm	0.0046 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm
Concentration RSD	256.3 %	4.5 %	5.9 %	109.1 %	30.5 %	69.1 %	315.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	96.7290 %	111.5889 %	100.8627 %	103.5153 %	106.9458 %	106.8848 %
Concentration per Run 1	0.0014 ppm	97.7203 %	111.3682 %	100.9635 %	104.8370 %	106.9307 %	106.6321 %
Concentration per Run 2	0.0015 ppm	95.9679 %	112.0960 %	100.9307 %	102.4138 %	106.9910 %	107.3987 %
Concentration per Run 3	0.0016 ppm	96.4987 %	111.3024 %	100.6938 %	103.2951 %	106.9158 %	106.6235 %
Concentration RSD	5.6 %	0.9 %	0.4 %	0.1 %	1.2 %	0.0 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037096-2 WG2037096
Analysis started at: 3/7/2025 6:12:33 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0135 ppm	0.0076 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0320 ppm
Concentration per Run 1	0.0001 ppm	0.0160 ppm	0.0071 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0294 ppm
Concentration per Run 2	0.0003 ppm	0.0108 ppm	0.0083 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0325 ppm
Concentration per Run 3	0.0000 ppm	0.0136 ppm	0.0073 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0342 ppm
Concentration RSD	94.3 %	19.4 %	8.2 %	6.3 %	54.3 %	136.1 %	7.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0162 ppm	0.0117 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm	0.0161 ppm	0.0014 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0009 ppm	0.0165 ppm	0.0046 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0161 ppm	0.0291 ppm	0.0006 ppm
Concentration RSD	67.2 %	14.6 %	104.7 %	24.8 %	1.3 %	129.5 %	55.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0057 ppm	0.0005 ppm	-0.0001 ppm	0.0368 ppm	0.0005 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0059 ppm	0.0004 ppm	-0.0001 ppm	0.0427 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0066 ppm	0.0007 ppm	-0.0001 ppm	0.0326 ppm	0.0006 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 3	0.0047 ppm	0.0003 ppm	0.0000 ppm	0.0353 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm
Concentration RSD	16.3 %	46.1 %	65.5 %	14.2 %	21.5 %	293.2 %	106.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.0119 ppm	0.0070 ppm	0.0000 ppm	0.0001 ppm	-0.0014 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	0.0137 ppm	0.0069 ppm	0.0002 ppm	0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0113 ppm	0.0071 ppm	-0.0001 ppm	0.0002 ppm	-0.0011 ppm	-0.0002 ppm
Concentration per Run 3	-0.0026 ppm	0.0106 ppm	0.0072 ppm	0.0000 ppm	-0.0001 ppm	-0.0021 ppm	0.0001 ppm
Concentration RSD	150.5 %	13.9 %	1.7 %	302.0 %	231.4 %	43.7 %	16,486.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0507 ppm	95.6892 %	110.1189 %	99.8366 %	101.2048 %	104.0583 %	104.4787 %
Concentration per Run 1	0.0508 ppm	97.0938 %	109.9936 %	99.7748 %	102.8565 %	103.9419 %	103.3532 %
Concentration per Run 2	0.0506 ppm	94.6734 %	110.3639 %	99.8304 %	100.5175 %	104.2690 %	105.0135 %
Concentration per Run 3	0.0507 ppm	95.3004 %	109.9992 %	99.9046 %	100.2404 %	103.9639 %	105.0695 %
Concentration RSD	0.2 %	1.3 %	0.2 %	0.1 %	1.4 %	0.2 %	0.9 %

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3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037408-2d2 WG2037408
Analysis started at: 3/7/2025 6:18:59 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3497 ppm	15.7297 ppm	1.1405 ppm	0.9089 ppm	1.1058 ppm	0.6501 ppm	21.1705 ppm
Concentration per Run 1	0.3506 ppm	15.8180 ppm	1.1389 ppm	0.9089 ppm	1.1122 ppm	0.6549 ppm	21.2930 ppm
Concentration per Run 2	0.3497 ppm	15.8760 ppm	1.1339 ppm	0.9033 ppm	1.1108 ppm	0.6556 ppm	21.3671 ppm
Concentration per Run 3	0.3489 ppm	15.4951 ppm	1.1487 ppm	0.9145 ppm	1.0944 ppm	0.6397 ppm	20.8513 ppm
Concentration RSD	0.3 %	1.3 %	0.7 %	0.6 %	0.9 %	1.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.8665 ppm	0.3301 ppm	0.7417 ppm	0.8507 ppm	20.1374 ppm	4.1402 ppm	0.4953 ppm
Concentration per Run 1	0.8689 ppm	0.3308 ppm	0.7434 ppm	0.8521 ppm	20.2332 ppm	4.1593 ppm	0.4979 ppm
Concentration per Run 2	0.8603 ppm	0.3276 ppm	0.7396 ppm	0.8503 ppm	20.3249 ppm	4.1740 ppm	0.5012 ppm
Concentration per Run 3	0.8702 ppm	0.3318 ppm	0.7421 ppm	0.8497 ppm	19.8541 ppm	4.0873 ppm	0.4868 ppm
Concentration RSD	0.6 %	0.7 %	0.3 %	0.1 %	1.2 %	1.1 %	1.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.9692 ppm	2.1403 ppm	0.5121 ppm	6.8382 ppm	1.3590 ppm	0.3518 ppm	0.3834 ppm
Concentration per Run 1	5.9779 ppm	2.1568 ppm	0.5114 ppm	6.8908 ppm	1.3624 ppm	0.3531 ppm	0.3834 ppm
Concentration per Run 2	5.9710 ppm	2.1581 ppm	0.5091 ppm	6.9027 ppm	1.3496 ppm	0.3500 ppm	0.3798 ppm
Concentration per Run 3	5.9587 ppm	2.1061 ppm	0.5159 ppm	6.7210 ppm	1.3648 ppm	0.3524 ppm	0.3869 ppm
Concentration RSD	0.2 %	1.4 %	0.7 %	1.5 %	0.6 %	0.5 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.6503 ppm	1.6873 ppm	0.2951 ppm	0.5205 ppm	1.0196 ppm	0.8992 ppm	0.4211 ppm
Concentration per Run 1	0.6538 ppm	1.6934 ppm	0.2944 ppm	0.5253 ppm	1.0223 ppm	0.9006 ppm	0.4220 ppm
Concentration per Run 2	0.6444 ppm	1.6771 ppm	0.2932 ppm	0.5249 ppm	1.0173 ppm	0.8940 ppm	0.4201 ppm
Concentration per Run 3	0.6526 ppm	1.6914 ppm	0.2975 ppm	0.5111 ppm	1.0191 ppm	0.9029 ppm	0.4211 ppm
Concentration RSD	0.8 %	0.5 %	0.8 %	1.6 %	0.2 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6821 ppm	102.0282 %	117.4135 %	107.1466 %	101.5226 %	103.4191 %	104.7008 %
Concentration per Run 1	0.6838 ppm	101.1382 %	117.0870 %	107.0663 %	100.5313 %	103.1375 %	104.3914 %
Concentration per Run 2	0.6770 ppm	101.7781 %	117.6543 %	107.8749 %	100.8786 %	104.1003 %	104.8043 %
Concentration per Run 3	0.6855 ppm	103.1682 %	117.4992 %	106.4985 %	103.1578 %	103.0196 %	104.9068 %
Concentration RSD	0.7 %	1.0 %	0.2 %	0.6 %	1.4 %	0.6 %	0.3 %

LabBook: WG2037545_03072025T5.imexp

Sample: WG2037408-3d2 WG2037408
Analysis started at: 3/7/2025 6:25:01 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3222 ppm	14.9896 ppm	1.0476 ppm	0.8359 ppm	1.0601 ppm	0.6269 ppm	20.0222 ppm
Concentration per Run 1	0.3227 ppm	14.9142 ppm	1.0438 ppm	0.8359 ppm	1.0600 ppm	0.6243 ppm	19.9587 ppm
Concentration per Run 2	0.3232 ppm	15.0100 ppm	1.0487 ppm	0.8356 ppm	1.0589 ppm	0.6269 ppm	20.0258 ppm
Concentration per Run 3	0.3207 ppm	15.0446 ppm	1.0503 ppm	0.8363 ppm	1.0615 ppm	0.6296 ppm	20.0822 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.0 %	0.1 %	0.4 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.8170 ppm	0.3019 ppm	0.6776 ppm	0.7804 ppm	19.3637 ppm	3.9347 ppm	0.4719 ppm
Concentration per Run 1	0.8171 ppm	0.3019 ppm	0.6778 ppm	0.7812 ppm	19.2575 ppm	3.9324 ppm	0.4689 ppm
Concentration per Run 2	0.8170 ppm	0.3019 ppm	0.6767 ppm	0.7805 ppm	19.3866 ppm	3.9223 ppm	0.4724 ppm
Concentration per Run 3	0.8169 ppm	0.3019 ppm	0.6782 ppm	0.7794 ppm	19.4470 ppm	3.9495 ppm	0.4743 ppm
Concentration RSD	0.0 %	0.0 %	0.1 %	0.1 %	0.5 %	0.3 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5027 ppm	2.0364 ppm	0.4685 ppm	6.7235 ppm	1.2409 ppm	0.3212 ppm	0.3511 ppm
Concentration per Run 1	5.5177 ppm	2.0262 ppm	0.4667 ppm	6.6995 ppm	1.2401 ppm	0.3202 ppm	0.3499 ppm
Concentration per Run 2	5.5071 ppm	2.0392 ppm	0.4691 ppm	6.7253 ppm	1.2414 ppm	0.3219 ppm	0.3512 ppm
Concentration per Run 3	5.4833 ppm	2.0439 ppm	0.4699 ppm	6.7458 ppm	1.2412 ppm	0.3216 ppm	0.3522 ppm
Concentration RSD	0.3 %	0.5 %	0.4 %	0.3 %	0.1 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5918 ppm	1.5386 ppm	0.2699 ppm	0.5044 ppm	0.9426 ppm	0.8676 ppm	0.3857 ppm
Concentration per Run 1	0.5909 ppm	1.5389 ppm	0.2687 ppm	0.5021 ppm	0.9433 ppm	0.8664 ppm	0.3863 ppm
Concentration per Run 2	0.5911 ppm	1.5441 ppm	0.2706 ppm	0.5052 ppm	0.9439 ppm	0.8668 ppm	0.3856 ppm
Concentration per Run 3	0.5935 ppm	1.5327 ppm	0.2706 ppm	0.5058 ppm	0.9404 ppm	0.8696 ppm	0.3851 ppm
Concentration RSD	0.2 %	0.4 %	0.4 %	0.4 %	0.2 %	0.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6245 ppm	98.7788 %	116.6871 %	106.2939 %	97.7978 %	103.5102 %	104.2690 %
Concentration per Run 1	0.6235 ppm	98.6684 %	116.4999 %	106.4855 %	98.1060 %	103.5640 %	104.1591 %
Concentration per Run 2	0.6255 ppm	98.9696 %	116.7521 %	106.3767 %	97.8008 %	103.6042 %	104.1769 %
Concentration per Run 3	0.6243 ppm	98.6982 %	116.8095 %	106.0194 %	97.4867 %	103.3623 %	104.4709 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	0.3 %	0.1 %	0.2 %

LabBook: WG2037545_03072025T5.imexp

Sample: I2511286-02d2 WG2037408
Analysis started at: 3/7/2025 6:31:07 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	52.8911 ppm	0.0141 ppm	0.0033 ppm	0.0909 ppm	0.0018 ppm	2.5463 ppm
Concentration per Run 1	0.0003 ppm	52.6721 ppm	0.0143 ppm	0.0031 ppm	0.0906 ppm	0.0017 ppm	2.5328 ppm
Concentration per Run 2	-0.0002 ppm	52.8984 ppm	0.0139 ppm	0.0034 ppm	0.0911 ppm	0.0018 ppm	2.5455 ppm
Concentration per Run 3	0.0000 ppm	53.1028 ppm	0.0143 ppm	0.0036 ppm	0.0909 ppm	0.0017 ppm	2.5605 ppm
Concentration RSD	463.9 %	0.4 %	1.6 %	7.4 %	0.3 %	2.1 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0004 ppm	0.0148 ppm	0.0530 ppm	0.0295 ppm	62.4429 ppm	2.8001 ppm	0.0329 ppm
Concentration per Run 1	-0.0004 ppm	0.0149 ppm	0.0528 ppm	0.0296 ppm	62.1063 ppm	2.7653 ppm	0.0332 ppm
Concentration per Run 2	-0.0004 ppm	0.0147 ppm	0.0534 ppm	0.0294 ppm	62.4600 ppm	2.8162 ppm	0.0324 ppm
Concentration per Run 3	-0.0004 ppm	0.0147 ppm	0.0529 ppm	0.0295 ppm	62.7625 ppm	2.8188 ppm	0.0329 ppm
Concentration RSD	1.1 %	0.9 %	0.5 %	0.3 %	0.5 %	1.1 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.1097 ppm	0.7517 ppm	0.0027 ppm	0.3372 ppm	0.0292 ppm	0.0577 ppm	0.0006 ppm
Concentration per Run 1	8.1011 ppm	0.7486 ppm	0.0028 ppm	0.3369 ppm	0.0294 ppm	0.0580 ppm	0.0006 ppm
Concentration per Run 2	8.1529 ppm	0.7517 ppm	0.0029 ppm	0.3360 ppm	0.0287 ppm	0.0579 ppm	0.0010 ppm
Concentration per Run 3	8.0750 ppm	0.7548 ppm	0.0025 ppm	0.3387 ppm	0.0295 ppm	0.0572 ppm	0.0003 ppm
Concentration RSD	0.5 %	0.4 %	6.7 %	0.4 %	1.5 %	0.8 %	52.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0023 ppm	3.6514 ppm	0.0048 ppm	0.0211 ppm	2.4155 ppm	0.0037 ppm	0.0934 ppm
Concentration per Run 1	0.0035 ppm	3.6957 ppm	0.0051 ppm	0.0211 ppm	2.4187 ppm	0.0026 ppm	0.0932 ppm
Concentration per Run 2	0.0029 ppm	3.6074 ppm	0.0048 ppm	0.0210 ppm	2.4241 ppm	0.0045 ppm	0.0933 ppm
Concentration per Run 3	0.0004 ppm	3.6509 ppm	0.0044 ppm	0.0210 ppm	2.4038 ppm	0.0041 ppm	0.0938 ppm
Concentration RSD	71.5 %	1.2 %	7.1 %	0.1 %	0.4 %	26.9 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1252 ppm	108.8553 %	127.5297 %	118.1174 %	99.6514 %	104.3199 %	104.5660 %
Concentration per Run 1	0.1263 ppm	108.9215 %	127.6634 %	117.3739 %	99.8596 %	103.5232 %	104.6733 %
Concentration per Run 2	0.1242 ppm	108.8645 %	127.0653 %	119.1761 %	99.9509 %	105.3630 %	104.1365 %
Concentration per Run 3	0.1252 ppm	108.7798 %	127.8603 %	117.8020 %	99.1436 %	104.0734 %	104.8881 %
Concentration RSD	0.8 %	0.1 %	0.3 %	0.8 %	0.4 %	0.9 %	0.4 %

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3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 6:37:23 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5068 ppm	0.4944 ppm	0.4632 ppm	0.4776 ppm	0.4978 ppm	0.4570 ppm	0.5058 ppm
Concentration per Run 1	0.5058 ppm	0.4873 ppm	0.4638 ppm	0.4783 ppm	0.4928 ppm	0.4511 ppm	0.4974 ppm
Concentration per Run 2	0.5092 ppm	0.5010 ppm	0.4644 ppm	0.4769 ppm	0.5009 ppm	0.4599 ppm	0.5097 ppm
Concentration per Run 3	0.5055 ppm	0.4949 ppm	0.4616 ppm	0.4777 ppm	0.4998 ppm	0.4602 ppm	0.5104 ppm
Recovery Percentage 1	101.366 %	98.882 %	92.649 %	95.528 %	99.565 %	91.409 %	101.165 %
Concentration RSD	0.4 %	1.4 %	0.3 %	0.2 %	0.9 %	1.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4687 ppm	0.4734 ppm	0.4832 ppm	0.4756 ppm	0.4968 ppm	5.1726 ppm	0.4415 ppm
Concentration per Run 1	0.4684 ppm	0.4731 ppm	0.4818 ppm	0.4751 ppm	0.4913 ppm	5.0928 ppm	0.4360 ppm
Concentration per Run 2	0.4690 ppm	0.4733 ppm	0.4852 ppm	0.4765 ppm	0.4988 ppm	5.1957 ppm	0.4435 ppm
Concentration per Run 3	0.4688 ppm	0.4738 ppm	0.4827 ppm	0.4753 ppm	0.5003 ppm	5.2293 ppm	0.4450 ppm
Recovery Percentage 1	93.744 %	94.677 %	96.648 %	95.121 %	99.357 %	103.452 %	88.299 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %	1.0 %	1.4 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5489 ppm	0.4823 ppm	0.4488 ppm	9.4010 ppm	0.5099 ppm	0.4493 ppm	0.4894 ppm
Concentration per Run 1	0.5476 ppm	0.4758 ppm	0.4465 ppm	9.2791 ppm	0.5095 ppm	0.4482 ppm	0.4896 ppm
Concentration per Run 2	0.5522 ppm	0.4847 ppm	0.4498 ppm	9.4506 ppm	0.5099 ppm	0.4511 ppm	0.4877 ppm
Concentration per Run 3	0.5468 ppm	0.4865 ppm	0.4502 ppm	9.4734 ppm	0.5102 ppm	0.4485 ppm	0.4909 ppm
Recovery Percentage 1	109.775 %	96.467 %	89.768 %	94.010 %	101.972 %	89.853 %	97.881 %
Concentration RSD	0.5 %	1.2 %	0.4 %	1.1 %	0.1 %	0.4 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4530 ppm	5.5509 ppm	0.4656 ppm	0.4674 ppm	0.5151 ppm	0.5035 ppm	0.4970 ppm
Concentration per Run 1	0.4521 ppm	5.5502 ppm	0.4658 ppm	0.4592 ppm	0.5142 ppm	0.5034 ppm	0.4964 ppm
Concentration per Run 2	0.4541 ppm	5.5551 ppm	0.4659 ppm	0.4702 ppm	0.5169 ppm	0.5046 ppm	0.4985 ppm
Concentration per Run 3	0.4528 ppm	5.5473 ppm	0.4652 ppm	0.4729 ppm	0.5142 ppm	0.5026 ppm	0.4961 ppm
Recovery Percentage 1	90.598 %	105.731 %	93.127 %	93.488 %	103.015 %	100.707 %	99.398 %
Concentration RSD	0.2 %	0.1 %	0.1 %	1.6 %	0.3 %	0.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4901 ppm	96.2323 %	110.0597 %	99.8693 %	102.4418 %	105.5033 %	104.7654 %
Concentration per Run 1	0.4900 ppm	97.0122 %	110.1536 %	99.9010 %	103.5221 %	105.7644 %	105.0505 %
Concentration per Run 2	0.4901 ppm	95.8685 %	109.9529 %	99.9659 %	102.0598 %	105.3733 %	104.3002 %
Concentration per Run 3	0.4903 ppm	95.8163 %	110.0728 %	99.7410 %	101.7434 %	105.3722 %	104.9454 %
Recovery Percentage 1	98.026 %						
Concentration RSD	0.0 %	0.7 %	0.1 %	0.1 %	0.9 %	0.2 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 6:43:34 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	-0.0105 ppm	-0.0013 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 2	0.0001 ppm	0.0024 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 3	0.0002 ppm	0.0064 ppm	-0.0005 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0054 ppm
Recovery Percentage 1	2.444 %	-0.559 %	-11.071 %	1.574 %	-1.021 %	0.753 %	0.050 %
Concentration RSD	16.1 %	1,583.0 %	128.6 %	67.1 %	14.1 %	44.8 %	9,375.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0003 ppm	-0.0184 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	-0.0005 ppm	-0.0292 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	-0.0006 ppm	-0.0199 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0002 ppm	-0.0060 ppm	-0.0008 ppm
Recovery Percentage 1	0.908 %	-0.426 %	-0.555 %	7.001 %	-0.571 %	-0.735 %	-6.853 %
Concentration RSD	16.8 %	46.1 %	309.1 %	13.0 %	148.6 %	63.4 %	15.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	-0.0001 ppm	0.0003 ppm	0.0043 ppm	0.0004 ppm	0.0005 ppm	-0.0014 ppm
Concentration per Run 1	-0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0055 ppm	0.0005 ppm	0.0004 ppm	-0.0013 ppm
Concentration per Run 2	0.0015 ppm	-0.0003 ppm	0.0002 ppm	0.0049 ppm	0.0004 ppm	0.0005 ppm	-0.0013 ppm
Concentration per Run 3	0.0016 ppm	0.0000 ppm	0.0003 ppm	0.0025 ppm	0.0002 ppm	0.0006 ppm	-0.0017 ppm
Recovery Percentage 1	0.905 %	-1.367 %	0.669 %	0.215 %	1.545 %	5.073 %	-2.850 %
Concentration RSD	122.4 %	93.0 %	40.5 %	36.7 %	39.4 %	23.3 %	15.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	-0.0010 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	-0.0008 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	-0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	1.890 %	-0.152 %	-0.075 %	0.110 %	0.956 %	-4.446 %	-0.261 %
Concentration RSD	454.2 %	61.4 %	758.3 %	1,204.1 %	302.1 %	12.1 %	422.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	96.5801 %	110.5678 %	100.9772 %	100.9887 %	107.2594 %	103.6995 %
Concentration per Run 1	0.0001 ppm	97.9401 %	110.6008 %	100.9852 %	102.0287 %	107.6147 %	102.6316 %
Concentration per Run 2	0.0002 ppm	95.2472 %	110.0781 %	100.5873 %	99.8444 %	106.6219 %	103.8715 %
Concentration per Run 3	0.0002 ppm	96.5528 %	111.0247 %	101.3592 %	101.0929 %	107.5414 %	104.5955 %
Recovery Percentage 1	3.254 %						
Concentration RSD	22.5 %	1.4 %	0.4 %	0.4 %	1.1 %	0.5 %	1.0 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511250-01 wg2037399
Analysis started at: 3/7/2025 6:55:30 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0428 ppm	-0.0002 ppm	0.0075 ppm	0.0907 ppm	0.0000 ppm	42.0119 ppm
Concentration per Run 1	0.0001 ppm	0.0392 ppm	-0.0005 ppm	0.0079 ppm	0.0866 ppm	0.0000 ppm	40.0635 ppm
Concentration per Run 2	-0.0001 ppm	0.0462 ppm	0.0009 ppm	0.0076 ppm	0.0930 ppm	0.0000 ppm	43.2341 ppm
Concentration per Run 3	-0.0001 ppm	0.0429 ppm	-0.0009 ppm	0.0069 ppm	0.0923 ppm	0.0000 ppm	42.7382 ppm
Concentration RSD	413.0 %	8.1 %	518.7 %	6.9 %	3.9 %	61.9 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0004 ppm	0.0006 ppm	0.0117 ppm	0.0120 ppm	0.5482 ppm	0.0013 ppm
Concentration per Run 1	0.0007 ppm	0.0006 ppm	0.0004 ppm	0.0116 ppm	0.0114 ppm	0.5275 ppm	0.0008 ppm
Concentration per Run 2	0.0007 ppm	0.0003 ppm	0.0006 ppm	0.0118 ppm	0.0121 ppm	0.5616 ppm	0.0009 ppm
Concentration per Run 3	0.0007 ppm	0.0004 ppm	0.0009 ppm	0.0116 ppm	0.0125 ppm	0.5555 ppm	0.0023 ppm
Concentration RSD	1.4 %	34.4 %	36.6 %	1.2 %	4.6 %	3.3 %	64.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.0605 ppm	0.0750 ppm	0.0005 ppm	133.8949 ppm	0.0020 ppm	0.0456 ppm	-0.0004 ppm
Concentration per Run 1	1.0570 ppm	0.0715 ppm	0.0005 ppm	128.1258 ppm	0.0017 ppm	0.0454 ppm	-0.0008 ppm
Concentration per Run 2	1.0731 ppm	0.0770 ppm	0.0004 ppm	137.6164 ppm	0.0023 ppm	0.0456 ppm	-0.0020 ppm
Concentration per Run 3	1.0515 ppm	0.0765 ppm	0.0007 ppm	135.9425 ppm	0.0020 ppm	0.0459 ppm	0.0015 ppm
Concentration RSD	1.1 %	4.0 %	24.4 %	3.8 %	15.0 %	0.5 %	411.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0002 ppm	1.3390 ppm	0.0016 ppm	0.1109 ppm	0.0004 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 1	0.0012 ppm	1.3449 ppm	0.0014 ppm	0.1059 ppm	0.0006 ppm	-0.0037 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	1.3370 ppm	0.0019 ppm	0.1141 ppm	0.0004 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 3	-0.0018 ppm	1.3352 ppm	0.0015 ppm	0.1127 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration RSD	904.3 %	0.4 %	16.9 %	4.0 %	68.5 %	70.0 %	196.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1208 ppm	93.0596 %	103.6359 %	93.7004 %	99.4797 %	94.6826 %	99.2177 %
Concentration per Run 1	0.1215 ppm	97.1482 %	103.6035 %	93.4277 %	103.9760 %	94.3538 %	99.1255 %
Concentration per Run 2	0.1208 ppm	90.7655 %	102.8482 %	94.0711 %	96.8578 %	94.9000 %	98.4208 %
Concentration per Run 3	0.1202 ppm	91.2649 %	104.4559 %	93.6025 %	97.6053 %	94.7941 %	100.1068 %
Concentration RSD	0.5 %	3.8 %	0.8 %	0.4 %	3.9 %	0.3 %	0.9 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511234-01 WG2036497
Analysis started at: 3/7/2025 7:01:49 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0107 ppm	-0.0003 ppm	0.0394 ppm	0.0063 ppm	0.0001 ppm	10.1546 ppm
Concentration per Run 1	-0.0002 ppm	0.0054 ppm	-0.0004 ppm	0.0397 ppm	0.0064 ppm	0.0000 ppm	10.1617 ppm
Concentration per Run 2	0.0003 ppm	0.0130 ppm	0.0006 ppm	0.0393 ppm	0.0062 ppm	0.0001 ppm	10.1507 ppm
Concentration per Run 3	-0.0001 ppm	0.0137 ppm	-0.0012 ppm	0.0394 ppm	0.0065 ppm	0.0001 ppm	10.1514 ppm
Concentration RSD	1,188.3 %	43.4 %	269.0 %	0.5 %	2.5 %	25.6 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0315 ppm	0.0039 ppm	1.7533 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0314 ppm	0.0044 ppm	1.7610 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0312 ppm	0.0035 ppm	1.7337 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0319 ppm	0.0039 ppm	1.7652 ppm	0.0008 ppm
Concentration RSD	109.8 %	28.0 %	35.9 %	1.1 %	12.5 %	1.0 %	42.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.2540 ppm	0.0010 ppm	0.0002 ppm	7.8076 ppm	0.0003 ppm	0.0015 ppm	-0.0018 ppm
Concentration per Run 1	2.2459 ppm	0.0012 ppm	0.0003 ppm	7.8059 ppm	0.0004 ppm	0.0012 ppm	-0.0019 ppm
Concentration per Run 2	2.2423 ppm	0.0008 ppm	0.0002 ppm	7.8266 ppm	0.0002 ppm	0.0018 ppm	-0.0025 ppm
Concentration per Run 3	2.2738 ppm	0.0011 ppm	0.0000 ppm	7.7903 ppm	0.0003 ppm	0.0017 ppm	-0.0010 ppm
Concentration RSD	0.8 %	17.3 %	78.2 %	0.2 %	30.6 %	21.4 %	42.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	8.6499 ppm	0.0002 ppm	0.0518 ppm	0.0001 ppm	-0.0010 ppm	0.0005 ppm
Concentration per Run 1	0.0010 ppm	8.6716 ppm	0.0002 ppm	0.0518 ppm	0.0000 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0012 ppm	8.6210 ppm	0.0002 ppm	0.0519 ppm	0.0002 ppm	-0.0014 ppm	0.0003 ppm
Concentration per Run 3	0.0003 ppm	8.6570 ppm	0.0002 ppm	0.0518 ppm	0.0001 ppm	-0.0008 ppm	0.0006 ppm
Concentration RSD	55.0 %	0.3 %	6.0 %	0.1 %	129.3 %	43.5 %	27.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0426 ppm	96.0432 %	111.4501 %	100.1067 %	100.7358 %	106.7602 %	106.1442 %
Concentration per Run 1	0.0427 ppm	96.6710 %	112.2162 %	100.2570 %	100.9993 %	106.5728 %	106.8684 %
Concentration per Run 2	0.0425 ppm	95.2822 %	111.3951 %	100.0969 %	100.2447 %	107.0077 %	106.2311 %
Concentration per Run 3	0.0425 ppm	96.1765 %	110.7389 %	99.9661 %	100.9634 %	106.7001 %	105.3332 %
Concentration RSD	0.3 %	0.7 %	0.7 %	0.1 %	0.4 %	0.2 %	0.7 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511241-01 WG2036497
Analysis started at: 3/7/2025 7:08:09 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0167 ppm	0.0004 ppm	0.0031 ppm	0.1323 ppm	0.0001 ppm	20.9047 ppm
Concentration per Run 1	0.0001 ppm	0.0155 ppm	-0.0008 ppm	0.0031 ppm	0.1363 ppm	0.0001 ppm	21.6170 ppm
Concentration per Run 2	0.0004 ppm	0.0184 ppm	0.0019 ppm	0.0030 ppm	0.1321 ppm	0.0001 ppm	20.7157 ppm
Concentration per Run 3	-0.0001 ppm	0.0163 ppm	0.0001 ppm	0.0032 ppm	0.1283 ppm	0.0001 ppm	20.3813 ppm
Concentration RSD	183.2 %	8.9 %	348.7 %	2.8 %	3.0 %	12.6 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0460 ppm	2.0203 ppm	3.2275 ppm	0.0045 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0461 ppm	2.0821 ppm	3.3482 ppm	0.0044 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0458 ppm	2.0033 ppm	3.1837 ppm	0.0051 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0462 ppm	1.9753 ppm	3.1505 ppm	0.0039 ppm
Concentration RSD	176.2 %	29.1 %	57.4 %	0.4 %	2.7 %	3.3 %	14.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.3253 ppm	0.1591 ppm	0.0000 ppm	7.4516 ppm	0.0003 ppm	0.0056 ppm	-0.0005 ppm
Concentration per Run 1	3.3412 ppm	0.1645 ppm	0.0000 ppm	7.6962 ppm	0.0004 ppm	0.0054 ppm	0.0007 ppm
Concentration per Run 2	3.2968 ppm	0.1572 ppm	0.0001 ppm	7.3632 ppm	0.0001 ppm	0.0060 ppm	-0.0005 ppm
Concentration per Run 3	3.3380 ppm	0.1557 ppm	0.0001 ppm	7.2953 ppm	0.0005 ppm	0.0055 ppm	-0.0016 ppm
Concentration RSD	0.7 %	2.9 %	103.8 %	2.9 %	54.3 %	6.1 %	260.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	19.6103 ppm	0.0007 ppm	0.0788 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0011 ppm	19.6710 ppm	0.0007 ppm	0.0813 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0019 ppm	19.5558 ppm	0.0006 ppm	0.0777 ppm	0.0006 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	-0.0013 ppm	19.6043 ppm	0.0008 ppm	0.0774 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	300.3 %	0.3 %	13.7 %	2.7 %	169.5 %	406.4 %	26.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0753 ppm	94.3563 %	110.3028 %	99.7619 %	100.0637 %	105.7408 %	104.4504 %
Concentration per Run 1	0.0753 ppm	92.1762 %	109.4275 %	99.7330 %	97.3704 %	105.4367 %	103.9881 %
Concentration per Run 2	0.0751 ppm	94.3168 %	110.9041 %	100.0422 %	100.7696 %	106.1073 %	105.3358 %
Concentration per Run 3	0.0754 ppm	96.5758 %	110.5768 %	99.5105 %	102.0510 %	105.6784 %	104.0274 %
Concentration RSD	0.2 %	2.3 %	0.7 %	0.3 %	2.4 %	0.3 %	0.7 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511248-01 WG2036497
Analysis started at: 3/7/2025 7:14:30 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0064 ppm	-0.0001 ppm	0.0088 ppm	0.0321 ppm	0.0000 ppm	9.2681 ppm
Concentration per Run 1	0.0001 ppm	0.0058 ppm	0.0002 ppm	0.0089 ppm	0.0307 ppm	0.0000 ppm	8.9687 ppm
Concentration per Run 2	0.0004 ppm	0.0110 ppm	-0.0001 ppm	0.0087 ppm	0.0326 ppm	0.0000 ppm	9.3863 ppm
Concentration per Run 3	0.0000 ppm	0.0024 ppm	-0.0004 ppm	0.0088 ppm	0.0330 ppm	0.0000 ppm	9.4493 ppm
Concentration RSD	115.7 %	67.9 %	306.3 %	0.9 %	3.8 %	45.1 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0153 ppm	0.0189 ppm	2.2038 ppm	0.0029 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0151 ppm	0.0177 ppm	2.1254 ppm	0.0032 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0005 ppm	0.0156 ppm	0.0200 ppm	2.2240 ppm	0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0152 ppm	0.0190 ppm	2.2621 ppm	0.0017 ppm
Concentration RSD	39.7 %	34.8 %	33.2 %	1.5 %	6.0 %	3.2 %	38.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8480 ppm	0.0023 ppm	-0.0001 ppm	25.9409 ppm	0.0006 ppm	0.0008 ppm	-0.0010 ppm
Concentration per Run 1	1.8411 ppm	0.0023 ppm	-0.0002 ppm	25.1516 ppm	0.0005 ppm	0.0007 ppm	-0.0007 ppm
Concentration per Run 2	1.8447 ppm	0.0022 ppm	-0.0002 ppm	26.2850 ppm	0.0007 ppm	0.0010 ppm	-0.0015 ppm
Concentration per Run 3	1.8584 ppm	0.0023 ppm	0.0000 ppm	26.3860 ppm	0.0005 ppm	0.0007 ppm	-0.0007 ppm
Concentration RSD	0.5 %	2.8 %	106.1 %	2.6 %	25.0 %	23.8 %	44.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	8.3133 ppm	0.0002 ppm	0.0687 ppm	0.0001 ppm	-0.0007 ppm	0.0007 ppm
Concentration per Run 1	0.0008 ppm	8.3524 ppm	0.0006 ppm	0.0666 ppm	0.0003 ppm	-0.0012 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	8.3239 ppm	-0.0002 ppm	0.0697 ppm	-0.0001 ppm	-0.0007 ppm	0.0007 ppm
Concentration per Run 3	0.0013 ppm	8.2636 ppm	0.0002 ppm	0.0698 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	91.6 %	0.5 %	177.2 %	2.7 %	161.0 %	74.9 %	32.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0069 ppm	99.2381 %	108.9288 %	99.3615 %	104.7953 %	105.3730 %	103.7261 %
Concentration per Run 1	0.0070 ppm	103.0170 %	109.2738 %	98.8022 %	107.8874 %	104.8193 %	103.9594 %
Concentration per Run 2	0.0068 ppm	97.9041 %	109.0850 %	99.3716 %	103.6360 %	105.2710 %	103.9829 %
Concentration per Run 3	0.0068 ppm	96.7932 %	108.4274 %	99.9106 %	102.8627 %	106.0287 %	103.2360 %
Concentration RSD	2.1 %	3.3 %	0.4 %	0.6 %	2.6 %	0.6 %	0.4 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511248-02 WG2036497
Analysis started at: 3/7/2025 7:21:56 PM
Comments <Comment>
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0072 ppm	-0.0013 ppm	0.0073 ppm	-0.0002 ppm	0.0001 ppm	0.0170 ppm
Concentration per Run 1	0.0006 ppm	0.0091 ppm	-0.0013 ppm	0.0075 ppm	-0.0002 ppm	0.0001 ppm	0.0187 ppm
Concentration per Run 2	-0.0001 ppm	0.0045 ppm	-0.0019 ppm	0.0072 ppm	-0.0002 ppm	0.0001 ppm	0.0123 ppm
Concentration per Run 3	0.0000 ppm	0.0080 ppm	-0.0008 ppm	0.0072 ppm	-0.0001 ppm	0.0000 ppm	0.0201 ppm
Concentration RSD	248.6 %	33.4 %	41.9 %	2.7 %	60.0 %	50.0 %	24.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0011 ppm	0.0004 ppm	0.3260 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0012 ppm	-0.0001 ppm	0.3356 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0011 ppm	0.0019 ppm	0.3286 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	-0.0007 ppm	0.3139 ppm	0.0006 ppm
Concentration RSD	67.2 %	12.7 %	11.2 %	8.1 %	375.2 %	3.4 %	712.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0077 ppm	0.0002 ppm	-0.0002 ppm	60.6278 ppm	0.0006 ppm	0.0007 ppm	-0.0010 ppm
Concentration per Run 1	0.0110 ppm	0.0004 ppm	-0.0003 ppm	60.2324 ppm	0.0008 ppm	0.0007 ppm	-0.0014 ppm
Concentration per Run 2	0.0071 ppm	0.0001 ppm	0.0000 ppm	61.0543 ppm	0.0006 ppm	0.0002 ppm	-0.0019 ppm
Concentration per Run 3	0.0050 ppm	0.0000 ppm	-0.0002 ppm	60.5967 ppm	0.0004 ppm	0.0012 ppm	0.0004 ppm
Concentration RSD	39.5 %	110.8 %	89.2 %	0.7 %	37.2 %	77.0 %	125.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	7.9651 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0008 ppm	7.9714 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0007 ppm	7.9794 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	7.9444 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.0002 ppm
Concentration RSD	222.4 %	0.2 %	226.5 %	108.3 %	274.3 %	85.3 %	92.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0332 ppm	96.5754 %	108.4708 %	98.6135 %	102.4398 %	104.0596 %	103.7254 %
Concentration per Run 1	0.0333 ppm	98.2246 %	108.7352 %	98.5052 %	103.2713 %	103.9614 %	103.8797 %
Concentration per Run 2	0.0331 ppm	95.2446 %	108.3595 %	98.8720 %	101.3287 %	104.1434 %	103.5514 %
Concentration per Run 3	0.0331 ppm	96.2570 %	108.3177 %	98.4634 %	102.7194 %	104.0740 %	103.7452 %
Concentration RSD	0.4 %	1.6 %	0.2 %	0.2 %	1.0 %	0.1 %	0.2 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 7:28:18 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5063 ppm	0.4872 ppm	0.4634 ppm	0.4767 ppm	0.4907 ppm	0.4533 ppm	0.4998 ppm
Concentration per Run 1	0.5110 ppm	0.4784 ppm	0.4630 ppm	0.4765 ppm	0.4784 ppm	0.4404 ppm	0.4799 ppm
Concentration per Run 2	0.5045 ppm	0.4972 ppm	0.4623 ppm	0.4752 ppm	0.4999 ppm	0.4593 ppm	0.5085 ppm
Concentration per Run 3	0.5033 ppm	0.4859 ppm	0.4649 ppm	0.4783 ppm	0.4940 ppm	0.4601 ppm	0.5110 ppm
Recovery Percentage 1	101.251 %	97.436 %	92.684 %	95.335 %	98.150 %	90.655 %	99.964 %
Concentration RSD	0.8 %	1.9 %	0.3 %	0.3 %	2.3 %	2.5 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4682 ppm	0.4727 ppm	0.4841 ppm	0.4774 ppm	0.4883 ppm	5.1397 ppm	0.4392 ppm
Concentration per Run 1	0.4684 ppm	0.4729 ppm	0.4877 ppm	0.4806 ppm	0.4743 ppm	5.0060 ppm	0.4279 ppm
Concentration per Run 2	0.4673 ppm	0.4713 ppm	0.4824 ppm	0.4762 ppm	0.4951 ppm	5.2365 ppm	0.4450 ppm
Concentration per Run 3	0.4688 ppm	0.4739 ppm	0.4822 ppm	0.4754 ppm	0.4955 ppm	5.1766 ppm	0.4447 ppm
Recovery Percentage 1	93.631 %	94.538 %	96.822 %	95.476 %	97.656 %	102.794 %	87.836 %
Concentration RSD	0.2 %	0.3 %	0.6 %	0.6 %	2.5 %	2.3 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5508 ppm	0.4794 ppm	0.4480 ppm	9.2993 ppm	0.5097 ppm	0.4484 ppm	0.4908 ppm
Concentration per Run 1	0.5563 ppm	0.4658 ppm	0.4463 ppm	9.0383 ppm	0.5098 ppm	0.4481 ppm	0.4927 ppm
Concentration per Run 2	0.5488 ppm	0.4863 ppm	0.4477 ppm	9.4324 ppm	0.5090 ppm	0.4477 ppm	0.4889 ppm
Concentration per Run 3	0.5473 ppm	0.4860 ppm	0.4500 ppm	9.4271 ppm	0.5103 ppm	0.4495 ppm	0.4907 ppm
Recovery Percentage 1	110.160 %	95.880 %	89.602 %	92.993 %	101.942 %	89.683 %	98.152 %
Concentration RSD	0.9 %	2.5 %	0.4 %	2.4 %	0.1 %	0.2 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4525 ppm	5.5523 ppm	0.4641 ppm	0.4669 ppm	0.5160 ppm	0.5025 ppm	0.4987 ppm
Concentration per Run 1	0.4524 ppm	5.5515 ppm	0.4648 ppm	0.4533 ppm	0.5201 ppm	0.5025 ppm	0.5019 ppm
Concentration per Run 2	0.4506 ppm	5.5394 ppm	0.4634 ppm	0.4728 ppm	0.5145 ppm	0.5018 ppm	0.4973 ppm
Concentration per Run 3	0.4545 ppm	5.5662 ppm	0.4642 ppm	0.4745 ppm	0.5134 ppm	0.5033 ppm	0.4968 ppm
Recovery Percentage 1	90.499 %	105.759 %	92.826 %	93.374 %	103.194 %	100.507 %	99.731 %
Concentration RSD	0.4 %	0.2 %	0.1 %	2.5 %	0.7 %	0.2 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4900 ppm	97.6092 %	109.9737 %	99.4504 %	103.2285 %	105.4828 %	104.6170 %
Concentration per Run 1	0.4897 ppm	100.1528 %	109.9310 %	99.4979 %	106.1196 %	105.5080 %	103.8328 %
Concentration per Run 2	0.4893 ppm	95.9285 %	110.1921 %	99.4292 %	101.8666 %	105.6501 %	105.1126 %
Concentration per Run 3	0.4909 ppm	96.7464 %	109.7981 %	99.4240 %	101.6993 %	105.2903 %	104.9055 %
Recovery Percentage 1	97.996 %						
Concentration RSD	0.2 %	2.3 %	0.2 %	0.0 %	2.4 %	0.2 %	0.7 %

LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 7:34:31 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0007 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 1	0.0000 ppm	-0.0018 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0022 ppm	-0.0036 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 3	0.0002 ppm	-0.0026 ppm	-0.0004 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0066 ppm
Recovery Percentage 1	1.946 %	-0.717 %	-20.978 %	-0.389 %	-0.175 %	0.617 %	4.043 %
Concentration RSD	71.8 %	361.1 %	224.1 %	200.3 %	893.4 %	69.3 %	85.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	-0.0002 ppm	-0.0024 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0003 ppm	-0.0145 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0006 ppm	0.0139 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0015 ppm	-0.0066 ppm	-0.0017 ppm
Recovery Percentage 1	0.567 %	-0.213 %	-1.463 %	6.388 %	-0.405 %	-0.096 %	-8.290 %
Concentration RSD	105.1 %	175.4 %	50.6 %	21.4 %	577.5 %	608.7 %	93.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0010 ppm	0.0000 ppm	0.0003 ppm	0.0056 ppm	0.0004 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 1	0.0019 ppm	0.0001 ppm	0.0003 ppm	0.0048 ppm	0.0003 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0040 ppm	0.0002 ppm	0.0002 ppm	0.0075 ppm	0.0004 ppm	0.0006 ppm	0.0009 ppm
Concentration per Run 3	-0.0029 ppm	-0.0003 ppm	0.0004 ppm	0.0045 ppm	0.0004 ppm	-0.0002 ppm	-0.0017 ppm
Recovery Percentage 1	1.007 %	0.266 %	0.637 %	0.281 %	1.494 %	1.655 %	-0.963 %
Concentration RSD	350.7 %	977.3 %	28.8 %	29.6 %	11.9 %	256.5 %	271.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0023 ppm	-0.0009 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 2	-0.0009 ppm	-0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 3	-0.0009 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	0.0001 ppm
Recovery Percentage 1	1.621 %	-0.190 %	0.383 %	-0.216 %	0.591 %	-3.366 %	-1.258 %
Concentration RSD	1,136.8 %	42.0 %	76.1 %	195.3 %	78.1 %	188.0 %	182.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	97.6384 %	110.9250 %	100.4294 %	101.4487 %	106.9513 %	103.3001 %
Concentration per Run 1	0.0002 ppm	98.9741 %	111.0571 %	100.3978 %	103.0581 %	106.7572 %	104.3496 %
Concentration per Run 2	0.0001 ppm	96.7840 %	110.7443 %	100.2621 %	100.7271 %	107.1033 %	102.8418 %
Concentration per Run 3	0.0002 ppm	97.1571 %	110.9735 %	100.6283 %	100.5609 %	106.9934 %	102.7089 %
Recovery Percentage 1	3.164 %						
Concentration RSD	8.8 %	1.2 %	0.1 %	0.2 %	1.4 %	0.2 %	0.9 %

LabBook: WG2037545_03072025T5.imexp

Sample: L2511468-02 WG2037368
Analysis started at: 3/7/2025 7:45:00 PM
Comments <Comment>
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.1185 ppm	0.0000 ppm	0.0122 ppm	0.1061 ppm	0.0001 ppm	126.3806 ppm
Concentration per Run 1	0.0000 ppm	0.1198 ppm	-0.0009 ppm	0.0121 ppm	0.1057 ppm	0.0001 ppm	125.3858 ppm
Concentration per Run 2	0.0002 ppm	0.1173 ppm	0.0003 ppm	0.0126 ppm	0.1064 ppm	0.0001 ppm	126.6701 ppm
Concentration per Run 3	-0.0001 ppm	0.1183 ppm	0.0005 ppm	0.0121 ppm	0.1061 ppm	0.0001 ppm	127.0859 ppm
Concentration RSD	277.0 %	1.1 %	2,061.8 %	2.4 %	0.3 %	2.6 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0018 ppm	0.0011 ppm	0.0056 ppm	0.4612 ppm	1.3822 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0019 ppm	0.0010 ppm	0.0057 ppm	0.4565 ppm	1.3927 ppm	0.0012 ppm
Concentration per Run 2	-0.0001 ppm	0.0018 ppm	0.0014 ppm	0.0058 ppm	0.4607 ppm	1.3809 ppm	0.0020 ppm
Concentration per Run 3	-0.0001 ppm	0.0016 ppm	0.0010 ppm	0.0055 ppm	0.4665 ppm	1.3730 ppm	0.0000 ppm
Concentration RSD	51.7 %	6.7 %	18.4 %	2.4 %	1.1 %	0.7 %	91.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.2735 ppm	0.6735 ppm	-0.0002 ppm	1.9122 ppm	0.0056 ppm	0.0068 ppm	-0.0008 ppm
Concentration per Run 1	16.2723 ppm	0.6682 ppm	-0.0001 ppm	1.8974 ppm	0.0057 ppm	0.0066 ppm	-0.0005 ppm
Concentration per Run 2	16.2842 ppm	0.6742 ppm	-0.0001 ppm	1.9162 ppm	0.0055 ppm	0.0069 ppm	-0.0016 ppm
Concentration per Run 3	16.2642 ppm	0.6782 ppm	-0.0002 ppm	1.9230 ppm	0.0056 ppm	0.0069 ppm	-0.0003 ppm
Concentration RSD	0.1 %	0.7 %	19.3 %	0.7 %	2.1 %	2.4 %	84.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0032 ppm	0.9187 ppm	0.0008 ppm	0.1486 ppm	-0.0001 ppm	-0.0016 ppm	0.0006 ppm
Concentration per Run 1	-0.0024 ppm	0.9184 ppm	0.0014 ppm	0.1474 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0023 ppm	0.9191 ppm	0.0002 ppm	0.1489 ppm	-0.0003 ppm	-0.0032 ppm	0.0007 ppm
Concentration per Run 3	-0.0049 ppm	0.9186 ppm	0.0007 ppm	0.1495 ppm	-0.0001 ppm	-0.0014 ppm	0.0007 ppm
Concentration RSD	45.7 %	0.0 %	75.5 %	0.7 %	261.5 %	91.8 %	20.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0350 ppm	96.1852 %	108.3541 %	96.4336 %	100.7231 %	96.0864 %	100.7515 %
Concentration per Run 1	0.0350 ppm	96.1557 %	108.3327 %	96.5990 %	101.1406 %	96.2422 %	100.7620 %
Concentration per Run 2	0.0351 ppm	96.3992 %	108.4129 %	96.3397 %	100.8609 %	96.1915 %	100.8644 %
Concentration per Run 3	0.0349 ppm	96.0006 %	108.3167 %	96.3621 %	100.1679 %	95.8256 %	100.6280 %
Concentration RSD	0.2 %	0.2 %	0.0 %	0.1 %	0.5 %	0.2 %	0.1 %

ICP DataTrace 5

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LabBook: WG2037545_03072025T5.imexp

Sample: CCV
Analysis started at: 3/7/2025 7:51:19 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5077 ppm	0.4878 ppm	0.4638 ppm	0.4769 ppm	0.4904 ppm	0.4492 ppm	0.5009 ppm
Concentration per Run 1	0.5059 ppm	0.4655 ppm	0.4644 ppm	0.4772 ppm	0.4775 ppm	0.4348 ppm	0.4880 ppm
Concentration per Run 2	0.5089 ppm	0.4937 ppm	0.4613 ppm	0.4772 ppm	0.4967 ppm	0.4541 ppm	0.5052 ppm
Concentration per Run 3	0.5082 ppm	0.5042 ppm	0.4656 ppm	0.4763 ppm	0.4970 ppm	0.4586 ppm	0.5094 ppm
Recovery Percentage 1	101.535 %	97.565 %	92.754 %	95.379 %	98.079 %	89.836 %	100.175 %
Concentration RSD	0.3 %	4.1 %	0.5 %	0.1 %	2.3 %	2.8 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4687 ppm	0.4723 ppm	0.4839 ppm	0.4757 ppm	0.4863 ppm	5.1143 ppm	0.4351 ppm
Concentration per Run 1	0.4699 ppm	0.4727 ppm	0.4838 ppm	0.4755 ppm	0.4720 ppm	4.9694 ppm	0.4205 ppm
Concentration per Run 2	0.4683 ppm	0.4724 ppm	0.4828 ppm	0.4749 ppm	0.4920 ppm	5.1647 ppm	0.4395 ppm
Concentration per Run 3	0.4679 ppm	0.4717 ppm	0.4851 ppm	0.4767 ppm	0.4949 ppm	5.2088 ppm	0.4453 ppm
Recovery Percentage 1	93.739 %	94.452 %	96.780 %	95.141 %	97.262 %	102.285 %	87.020 %
Concentration RSD	0.2 %	0.1 %	0.2 %	0.2 %	2.6 %	2.5 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5547 ppm	0.4785 ppm	0.4470 ppm	9.2986 ppm	0.5117 ppm	0.4467 ppm	0.4903 ppm
Concentration per Run 1	0.5513 ppm	0.4633 ppm	0.4459 ppm	9.0229 ppm	0.5129 ppm	0.4475 ppm	0.4896 ppm
Concentration per Run 2	0.5578 ppm	0.4843 ppm	0.4474 ppm	9.3812 ppm	0.5113 ppm	0.4459 ppm	0.4899 ppm
Concentration per Run 3	0.5548 ppm	0.4878 ppm	0.4478 ppm	9.4917 ppm	0.5110 ppm	0.4469 ppm	0.4913 ppm
Recovery Percentage 1	110.930 %	95.690 %	89.406 %	92.986 %	102.344 %	89.346 %	98.056 %
Concentration RSD	0.6 %	2.8 %	0.2 %	2.6 %	0.2 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4496 ppm	5.5592 ppm	0.4653 ppm	0.4634 ppm	0.5179 ppm	0.5003 ppm	0.4992 ppm
Concentration per Run 1	0.4497 ppm	5.5651 ppm	0.4656 ppm	0.4482 ppm	0.5173 ppm	0.5020 ppm	0.4986 ppm
Concentration per Run 2	0.4521 ppm	5.5606 ppm	0.4653 ppm	0.4689 ppm	0.5179 ppm	0.4998 ppm	0.4992 ppm
Concentration per Run 3	0.4471 ppm	5.5521 ppm	0.4649 ppm	0.4733 ppm	0.5185 ppm	0.4990 ppm	0.4997 ppm
Recovery Percentage 1	89.926 %	105.890 %	93.055 %	92.688 %	103.581 %	100.050 %	99.831 %
Concentration RSD	0.6 %	0.1 %	0.1 %	2.9 %	0.1 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4909 ppm	96.9903 %	110.4423 %	99.5191 %	103.1837 %	105.9309 %	104.7866 %
Concentration per Run 1	0.4916 ppm	98.9846 %	110.7806 %	99.4217 %	105.7534 %	105.8828 %	105.2344 %
Concentration per Run 2	0.4906 ppm	96.2109 %	110.4967 %	99.6310 %	102.5448 %	106.0417 %	104.7598 %
Concentration per Run 3	0.4904 ppm	95.7753 %	110.0496 %	99.5045 %	101.2529 %	105.8684 %	104.3657 %
Recovery Percentage 1	98.178 %						
Concentration RSD	0.1 %	1.8 %	0.3 %	0.1 %	2.2 %	0.1 %	0.4 %

ICP DataTrace 5

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LabBook: WG2037545_03072025T5.imexp

Sample: CCB
Analysis started at: 3/7/2025 7:57:30 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0007 ppm	-0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	-0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0011 ppm	-0.0027 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	0.0005 ppm	-0.0021 ppm	-0.0011 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0024 ppm
Recovery Percentage 1	3.547 %	-0.699 %	-31.808 %	-0.274 %	-0.077 %	1.086 %	2.201 %
Concentration RSD	93.7 %	226.8 %	58.7 %	267.7 %	1,029.5 %	67.4 %	139.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	-0.0009 ppm	-0.0041 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	-0.0002 ppm	-0.0262 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	-0.0014 ppm	0.0153 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	-0.0011 ppm	-0.0015 ppm	-0.0002 ppm
Recovery Percentage 1	0.773 %	-0.018 %	-0.833 %	5.658 %	-1.757 %	-0.166 %	6.261 %
Concentration RSD	47.9 %	4,784.0 %	247.6 %	29.0 %	66.5 %	502.8 %	118.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0016 ppm	0.0004 ppm	0.0003 ppm	-0.0015 ppm
Concentration per Run 1	0.0023 ppm	0.0000 ppm	0.0004 ppm	-0.0032 ppm	0.0008 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 2	-0.0019 ppm	-0.0002 ppm	0.0003 ppm	0.0025 ppm	0.0002 ppm	0.0005 ppm	-0.0016 ppm
Concentration per Run 3	-0.0026 ppm	0.0005 ppm	0.0001 ppm	0.0054 ppm	0.0003 ppm	0.0005 ppm	-0.0024 ppm
Recovery Percentage 1	-0.748 %	1.069 %	0.551 %	0.078 %	1.743 %	2.767 %	-3.091 %
Concentration RSD	357.0 %	327.6 %	57.9 %	277.9 %	67.9 %	151.1 %	59.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	-0.0011 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	-0.0013 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0009 ppm	-0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	1.876 %	-0.162 %	0.140 %	0.269 %	-0.239 %	-2.747 %	-1.308 %
Concentration RSD	597.5 %	56.9 %	386.7 %	286.8 %	375.7 %	164.2 %	38.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	96.6946 %	111.4391 %	100.6164 %	101.0485 %	107.4118 %	104.7460 %
Concentration per Run 1	0.0001 ppm	96.3489 %	111.2915 %	100.8528 %	100.9886 %	107.4087 %	104.5720 %
Concentration per Run 2	0.0002 ppm	96.9610 %	111.7881 %	100.5055 %	101.0253 %	107.2558 %	105.2841 %
Concentration per Run 3	0.0000 ppm	96.7740 %	111.2378 %	100.4910 %	101.1316 %	107.5710 %	104.3819 %
Recovery Percentage 1	2.494 %						
Concentration RSD	58.7 %	0.3 %	0.3 %	0.2 %	0.1 %	0.1 %	0.5 %

ICP DataTrace 5

3/7/2025 8:41:13 PM

LabBook: WG2037545_03072025T5.imexp

Sample: XNO VOLUME
Analysis started at: 3/7/2025 8:11:47 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	0.1226 ppm	-0.0013 ppm	-0.0007 ppm	0.0104 ppm	0.0049 ppm	0.1234 ppm
Concentration per Run 1	0.0029 ppm	0.1199 ppm	-0.0009 ppm	-0.0003 ppm	0.0103 ppm	0.0048 ppm	0.1206 ppm
Concentration per Run 2	0.0009 ppm	0.1159 ppm	-0.0018 ppm	-0.0012 ppm	0.0103 ppm	0.0049 ppm	0.1251 ppm
Concentration per Run 3	0.0004 ppm	0.1319 ppm	N/A	N/A	0.0106 ppm	0.0050 ppm	0.1245 ppm
Recovery Percentage 1	28.303 %	122.551 %	-26.746 %	-2.480 %	103.928 %	97.836 %	123.422 %
Concentration RSD	95.1 %	6.8 %	45.5 %	89.6 %	1.5 %	1.6 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0032 ppm	0.0010 ppm	0.1077 ppm	2.7048 ppm	0.0094 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0059 ppm	0.0045 ppm	0.1077 ppm	2.6817 ppm	0.0094 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0025 ppm	-0.0001 ppm	0.1074 ppm	2.6996 ppm	0.0094 ppm
Concentration per Run 3	N/A	N/A	0.0011 ppm	-0.0014 ppm	0.1081 ppm	2.7331 ppm	0.0093 ppm
Recovery Percentage 1	1.782 %	-2.102 %	32.080 %	10.103 %	215.482 %	108.192 %	93.542 %
Concentration RSD	150.9 %	110.7 %	76.7 %	306.0 %	0.4 %	1.0 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0353 ppm	0.0107 ppm	0.0008 ppm	2.0043 ppm	0.0014 ppm	0.0008 ppm	-0.0006 ppm
Concentration per Run 1	0.0687 ppm	0.0106 ppm	0.0016 ppm	1.9898 ppm	0.0016 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0263 ppm	0.0108 ppm	0.0000 ppm	2.0091 ppm	0.0012 ppm	0.0007 ppm	-0.0014 ppm
Concentration per Run 3	0.0109 ppm	0.0108 ppm	N/A	2.0141 ppm	N/A	N/A	N/A
Recovery Percentage 1	35.290 %	107.118 %	1.560 %	100.216 %	6.812 %	7.676 %	-1.148 %
Concentration RSD	84.9 %	1.1 %	150.4 %	0.6 %	19.6 %	5.5 %	209.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0026 ppm	0.0090 ppm	0.0007 ppm	0.0100 ppm	0.0042 ppm	-0.0004 ppm	0.0033 ppm
Concentration per Run 1	0.0023 ppm	0.0185 ppm	0.0014 ppm	0.0100 ppm	0.0077 ppm	-0.0001 ppm	0.0059 ppm
Concentration per Run 2	0.0029 ppm	-0.0005 ppm	-0.0001 ppm	0.0101 ppm	0.0033 ppm	-0.0008 ppm	0.0026 ppm
Concentration per Run 3	N/A	N/A	N/A	0.0100 ppm	0.0015 ppm	N/A	0.0014 ppm
Recovery Percentage 1	25.926 %	1.802 %	1.320 %	100.440 %	41.662 %	-2.138 %	32.822 %
Concentration RSD	17.0 %	149.5 %	152.3 %	0.8 %	76.3 %	109.6 %	71.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0003 ppm	95.5904 %	226.0621 %	285.9189 %	101.8857 %	299.0035 %	199.9041 %
Concentration per Run 1	-0.0002 ppm	95.2498 %	N/A	264.7211 %	102.7719 %	275.5232 %	161.9029 %
Concentration per Run 2	-0.0004 ppm	95.9226 %	209.5314 %	307.1167 %	101.5433 %	322.4837 %	190.0176 %
Concentration per Run 3	N/A	95.5990 %	242.5928 %	N/A	101.3420 %	N/A	247.7917 %
Recovery Percentage 1	-5.782 %						
Concentration RSD	55.4 %	0.4 %	10.3 %	10.5 %	0.8 %	11.1 %	21.9 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: Blank DMC Trace5
Analysis started at: 3/10/2025 6:10:19 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.8 %	0.5 %	0.3 %	0.1 %	0.7 %	0.5 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.1 %	0.0 %	-0.2 %	0.0 %	-0.4 %	0.1 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.4 %	1.3 %	0.5 %	-1.5 %	-0.1 %	-0.2 %	-1.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	0.1 %	0.3 %	-0.4 %	-0.1 %	-0.4 %	-0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.2 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

LabBook: WG2038397_03102025T5.imexp

Sample: ICAL
Analysis started at: 3/10/2025 6:16:43 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0036 ppm	25.7944 ppm	1.0008 ppm	0.9987 ppm	1.0308 ppm	1.0297 ppm	10.3232 ppm
Concentration per Run 2	0.9987 ppm	24.8009 ppm	0.9995 ppm	1.0030 ppm	0.9921 ppm	0.9932 ppm	9.9103 ppm
Concentration per Run 3	0.9976 ppm	24.4047 ppm	0.9998 ppm	0.9983 ppm	0.9771 ppm	0.9771 ppm	9.7665 ppm
Concentration RSD	0.3 %	2.9 %	0.1 %	0.3 %	2.8 %	2.7 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9986 ppm	0.9994 ppm	1.0035 ppm	1.0028 ppm	25.7527 ppm	36.0838 ppm	1.0314 ppm
Concentration per Run 2	1.0022 ppm	1.0023 ppm	1.0010 ppm	1.0029 ppm	24.8170 ppm	34.7138 ppm	0.9915 ppm
Concentration per Run 3	0.9991 ppm	0.9983 ppm	0.9955 ppm	0.9943 ppm	24.4304 ppm	34.2024 ppm	0.9771 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.5 %	2.7 %	2.8 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0418 ppm	1.0299 ppm	0.9975 ppm	25.7762 ppm	0.9993 ppm	0.9976 ppm	1.0002 ppm
Concentration per Run 2	9.9824 ppm	0.9934 ppm	1.0020 ppm	24.7947 ppm	1.0025 ppm	1.0028 ppm	1.0028 ppm
Concentration per Run 3	9.9758 ppm	0.9767 ppm	1.0005 ppm	24.4291 ppm	0.9982 ppm	0.9996 ppm	0.9970 ppm
Concentration RSD	0.4 %	2.7 %	0.2 %	2.8 %	0.2 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0000 ppm	9.9961 ppm	0.9973 ppm	1.0291 ppm	1.0037 ppm	0.9980 ppm	1.0033 ppm
Concentration per Run 2	1.0019 ppm	10.0272 ppm	1.0028 ppm	0.9922 ppm	1.0004 ppm	1.0019 ppm	1.0015 ppm
Concentration per Run 3	0.9981 ppm	9.9767 ppm	0.9999 ppm	0.9787 ppm	0.9958 ppm	1.0001 ppm	0.9951 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	2.6 %	0.4 %	0.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	95.4804 %	95.7420 %	96.5716 %	98.2582 %	96.4374 %	97.4384 %
Concentration per Run 1	0.9985 ppm	92.2722 %	95.2471 %	96.4661 %	95.4353 %	96.5952 %	97.0839 %
Concentration per Run 2	1.0029 ppm	96.0888 %	96.0585 %	96.4486 %	98.8934 %	96.1957 %	97.5744 %
Concentration per Run 3	0.9986 ppm	98.0801 %	95.9203 %	96.8000 %	100.4459 %	96.5214 %	97.6569 %
Concentration RSD	0.2 %	3.1 %	0.5 %	0.2 %	2.6 %	0.2 %	0.3 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: ICV
Analysis started at: 3/10/2025 6:33:23 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4900 ppm	0.4923 ppm	0.4951 ppm	0.4884 ppm	0.4763 ppm	0.4981 ppm	0.4991 ppm
Concentration per Run 1	0.4894 ppm	0.4889 ppm	0.4955 ppm	0.4878 ppm	0.4814 ppm	0.5042 ppm	0.5000 ppm
Concentration per Run 2	0.4902 ppm	0.5014 ppm	0.4946 ppm	0.4898 ppm	0.4756 ppm	0.4973 ppm	0.4993 ppm
Concentration per Run 3	0.4903 ppm	0.4868 ppm	0.4953 ppm	0.4877 ppm	0.4719 ppm	0.4929 ppm	0.4981 ppm
Recovery Percentage 1	97.996 %	98.469 %	99.026 %	97.679 %	95.263 %	99.622 %	99.826 %
Concentration RSD	0.1 %	1.6 %	0.1 %	0.2 %	1.0 %	1.1 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4993 ppm	0.5128 ppm	0.5035 ppm	0.4946 ppm	0.5132 ppm	5.1087 ppm	0.4828 ppm
Concentration per Run 1	0.4992 ppm	0.5124 ppm	0.5013 ppm	0.4935 ppm	0.5182 ppm	5.1611 ppm	0.4880 ppm
Concentration per Run 2	0.4999 ppm	0.5140 ppm	0.5037 ppm	0.4942 ppm	0.5113 ppm	5.0972 ppm	0.4829 ppm
Concentration per Run 3	0.4988 ppm	0.5120 ppm	0.5055 ppm	0.4960 ppm	0.5101 ppm	5.0677 ppm	0.4775 ppm
Recovery Percentage 1	99.863 %	102.566 %	100.698 %	98.910 %	102.638 %	102.173 %	96.559 %
Concentration RSD	0.1 %	0.2 %	0.4 %	0.3 %	0.9 %	0.9 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5137 ppm	0.4919 ppm	0.4922 ppm	9.8775 ppm	0.5117 ppm	0.5104 ppm	0.5081 ppm
Concentration per Run 1	0.5118 ppm	0.4989 ppm	0.4900 ppm	10.0220 ppm	0.5115 ppm	0.5103 ppm	0.5069 ppm
Concentration per Run 2	0.5097 ppm	0.4908 ppm	0.4938 ppm	9.8349 ppm	0.5128 ppm	0.5114 ppm	0.5099 ppm
Concentration per Run 3	0.5196 ppm	0.4859 ppm	0.4928 ppm	9.7756 ppm	0.5109 ppm	0.5094 ppm	0.5074 ppm
Recovery Percentage 1	102.739 %	98.372 %	98.431 %	98.775 %	102.346 %	102.070 %	101.613 %
Concentration RSD	1.0 %	1.3 %	0.4 %	1.3 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4982 ppm	5.6529 ppm	0.4967 ppm	0.4923 ppm	0.5053 ppm	0.5136 ppm	0.4988 ppm
Concentration per Run 1	0.4983 ppm	5.6450 ppm	0.4967 ppm	0.4983 ppm	0.5041 ppm	0.5125 ppm	0.4972 ppm
Concentration per Run 2	0.4988 ppm	5.6637 ppm	0.4968 ppm	0.4906 ppm	0.5049 ppm	0.5143 ppm	0.4983 ppm
Concentration per Run 3	0.4975 ppm	5.6499 ppm	0.4967 ppm	0.4880 ppm	0.5068 ppm	0.5140 ppm	0.5008 ppm
Recovery Percentage 1	99.641 %	107.674 %	99.348 %	98.459 %	101.053 %	102.719 %	99.755 %
Concentration RSD	0.1 %	0.2 %	0.0 %	1.1 %	0.3 %	0.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5058 ppm	99.8865 %	98.5288 %	98.4796 %	101.3370 %	99.4057 %	99.6105 %
Concentration per Run 1	0.5058 ppm	98.5519 %	98.7208 %	98.5567 %	99.9518 %	99.5279 %	100.0847 %
Concentration per Run 2	0.5061 ppm	100.1444 %	98.7903 %	98.6599 %	101.5344 %	99.3158 %	99.7388 %
Concentration per Run 3	0.5056 ppm	100.9632 %	98.0753 %	98.2223 %	102.5248 %	99.3734 %	99.0081 %
Recovery Percentage 1	101.160 %						
Concentration RSD	0.0 %	1.2 %	0.4 %	0.2 %	1.3 %	0.1 %	0.6 %

LabBook: WG2038397_03102025T5.imexp

Sample: ICB
Analysis started at: 3/10/2025 6:39:30 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0028 ppm	0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0004 ppm	-0.0063 ppm	-0.0002 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0007 ppm	0.0061 ppm	0.0012 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 3	0.0001 ppm	0.0087 ppm	-0.0006 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0024 ppm
Recovery Percentage 1	5.498 %	2.798 %	2.785 %	3.221 %	0.819 %	0.056 %	0.331 %
Concentration RSD	77.9 %	286.0 %	693.7 %	17.7 %	73.8 %	659.2 %	853.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0014 ppm	0.0105 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0006 ppm	-0.0002 ppm	0.0015 ppm	0.0082 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0019 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0005 ppm	-0.0005 ppm	0.0008 ppm	0.0225 ppm	0.0011 ppm
Recovery Percentage 1	0.086 %	0.616 %	-3.086 %	-2.071 %	2.832 %	0.420 %	11.180 %
Concentration RSD	673.9 %	63.5 %	140.4 %	136.5 %	40.8 %	104.9 %	91.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0014 ppm	0.0000 ppm	0.0005 ppm	-0.0153 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 1	-0.0034 ppm	0.0002 ppm	0.0007 ppm	-0.0107 ppm	0.0001 ppm	0.0006 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0005 ppm	-0.0164 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 3	-0.0007 ppm	-0.0001 ppm	0.0004 ppm	-0.0188 ppm	-0.0003 ppm	-0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	-1.360 %	0.037 %	1.096 %	-0.765 %	-0.132 %	2.057 %	-1.379 %
Concentration RSD	134.8 %	4,468.0 %	29.3 %	27.5 %	635.7 %	175.6 %	68.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0018 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0020 ppm	0.0002 ppm
Concentration per Run 2	0.0030 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 3	0.0031 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Recovery Percentage 1	17.722 %	0.052 %	-0.548 %	0.448 %	0.328 %	-6.779 %	0.880 %
Concentration RSD	121.7 %	106.9 %	72.2 %	86.0 %	870.4 %	56.2 %	144.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	103.1683 %	98.6804 %	99.4847 %	102.5275 %	99.5406 %	98.8812 %
Concentration per Run 1	0.0000 ppm	105.4591 %	98.4522 %	99.3888 %	103.6513 %	99.6397 %	98.6733 %
Concentration per Run 2	0.0001 ppm	102.4469 %	98.9651 %	99.3985 %	102.4273 %	99.2806 %	99.3130 %
Concentration per Run 3	0.0002 ppm	101.5990 %	98.6238 %	99.6668 %	101.5037 %	99.7015 %	98.6574 %
Recovery Percentage 1	2.267 %						
Concentration RSD	70.6 %	2.0 %	0.3 %	0.2 %	1.1 %	0.2 %	0.4 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: ICV
Analysis started at: 3/10/2025 6:46:20 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5015 ppm	0.5160 ppm	0.4961 ppm	0.4920 ppm	0.5011 ppm	0.5229 ppm	0.5265 ppm
Concentration per Run 1	0.5020 ppm	0.5281 ppm	0.4975 ppm	0.4927 ppm	0.5105 ppm	0.5339 ppm	0.5399 ppm
Concentration per Run 2	0.5015 ppm	0.5122 ppm	0.4955 ppm	0.4928 ppm	0.5019 ppm	0.5235 ppm	0.5232 ppm
Concentration per Run 3	0.5008 ppm	0.5077 ppm	0.4954 ppm	0.4903 ppm	0.4909 ppm	0.5112 ppm	0.5165 ppm
Recovery Percentage 1	100.290 %	103.200 %	99.223 %	98.392 %	100.219 %	104.572 %	105.301 %
Concentration RSD	0.1 %	2.1 %	0.2 %	0.3 %	2.0 %	2.2 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5031 ppm	0.5145 ppm	0.5045 ppm	0.4959 ppm	0.5372 ppm	5.3167 ppm	0.5134 ppm
Concentration per Run 1	0.5039 ppm	0.5160 ppm	0.5048 ppm	0.4963 ppm	0.5468 ppm	5.4306 ppm	0.5245 ppm
Concentration per Run 2	0.5029 ppm	0.5143 ppm	0.5041 ppm	0.4954 ppm	0.5373 ppm	5.3313 ppm	0.5132 ppm
Concentration per Run 3	0.5026 ppm	0.5131 ppm	0.5045 ppm	0.4961 ppm	0.5274 ppm	5.1881 ppm	0.5025 ppm
Recovery Percentage 1	100.620 %	102.897 %	100.891 %	99.186 %	107.435 %	106.333 %	102.688 %
Concentration RSD	0.1 %	0.3 %	0.1 %	0.1 %	1.8 %	2.3 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5150 ppm	0.5142 ppm	0.4975 ppm	10.2807 ppm	0.5141 ppm	0.5148 ppm	0.5131 ppm
Concentration per Run 1	0.5120 ppm	0.5251 ppm	0.4966 ppm	10.4811 ppm	0.5143 ppm	0.5144 ppm	0.5131 ppm
Concentration per Run 2	0.5174 ppm	0.5162 ppm	0.4976 ppm	10.2986 ppm	0.5142 ppm	0.5151 ppm	0.5138 ppm
Concentration per Run 3	0.5156 ppm	0.5013 ppm	0.4982 ppm	10.0625 ppm	0.5139 ppm	0.5147 ppm	0.5125 ppm
Recovery Percentage 1	102.998 %	102.836 %	99.492 %	102.807 %	102.826 %	102.953 %	102.629 %
Concentration RSD	0.5 %	2.3 %	0.2 %	2.0 %	0.0 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5014 ppm	5.7028 ppm	0.5275 ppm	0.5174 ppm	0.5076 ppm	0.5164 ppm	0.4999 ppm
Concentration per Run 1	0.5030 ppm	5.7097 ppm	0.5274 ppm	0.5274 ppm	0.5075 ppm	0.5160 ppm	0.5002 ppm
Concentration per Run 2	0.5009 ppm	5.7071 ppm	0.5274 ppm	0.5185 ppm	0.5079 ppm	0.5173 ppm	0.5000 ppm
Concentration per Run 3	0.5002 ppm	5.6917 ppm	0.5275 ppm	0.5062 ppm	0.5075 ppm	0.5160 ppm	0.4996 ppm
Recovery Percentage 1	100.277 %	108.625 %	105.492 %	103.475 %	101.527 %	103.288 %	99.988 %
Concentration RSD	0.3 %	0.2 %	0.0 %	2.1 %	0.0 %	0.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5102 ppm	95.6181 %	97.8766 %	98.4772 %	96.8220 %	98.5410 %	99.1707 %
Concentration per Run 1	0.5111 ppm	93.6816 %	97.9623 %	98.7841 %	94.8826 %	98.5242 %	99.1981 %
Concentration per Run 2	0.5099 ppm	95.8365 %	97.6491 %	98.5864 %	96.9233 %	98.5533 %	99.0691 %
Concentration per Run 3	0.5095 ppm	97.3361 %	98.0185 %	98.0611 %	98.6600 %	98.5454 %	99.2448 %
Recovery Percentage 1	102.035 %						
Concentration RSD	0.2 %	1.9 %	0.2 %	0.4 %	2.0 %	0.0 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: ICB
Analysis started at: 3/10/2025 6:52:27 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0014 ppm	-0.0005 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0002 ppm	-0.0070 ppm	-0.0011 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	-0.0043 ppm
Concentration per Run 2	-0.0001 ppm	-0.0037 ppm	0.0007 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0034 ppm
Concentration per Run 3	0.0002 ppm	0.0064 ppm	-0.0010 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm
Recovery Percentage 1	1.731 %	-1.442 %	-9.209 %	3.697 %	0.117 %	-0.708 %	0.300 %
Concentration RSD	139.2 %	485.7 %	210.5 %	32.1 %	372.9 %	54.2 %	1,349.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0009 ppm	-0.0079 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0007 ppm	-0.0268 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0094 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0006 ppm	-0.0065 ppm	-0.0003 ppm
Recovery Percentage 1	-0.632 %	0.212 %	2.171 %	1.301 %	1.703 %	-0.318 %	1.311 %
Concentration RSD	40.2 %	74.6 %	39.1 %	126.6 %	38.4 %	227.9 %	621.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0024 ppm	0.0000 ppm	0.0005 ppm	-0.0215 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	-0.0023 ppm	0.0000 ppm	0.0008 ppm	-0.0288 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	-0.0033 ppm	0.0002 ppm	0.0005 ppm	-0.0116 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 3	-0.0016 ppm	-0.0003 ppm	0.0003 ppm	-0.0241 ppm	0.0000 ppm	0.0004 ppm	0.0005 ppm
Recovery Percentage 1	-2.406 %	-0.398 %	1.078 %	-1.076 %	-0.352 %	1.261 %	1.289 %
Concentration RSD	35.0 %	600.9 %	52.7 %	41.5 %	110.0 %	244.8 %	46.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	0.0016 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	-0.0027 ppm	0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0010 ppm	0.0004 ppm	0.0001 ppm	-0.0004 ppm	-0.0010 ppm	0.0001 ppm
Recovery Percentage 1	4.902 %	0.089 %	0.680 %	0.188 %	-0.540 %	-5.221 %	0.912 %
Concentration RSD	356.7 %	103.4 %	21.1 %	417.3 %	540.0 %	159.4 %	25.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	105.0109 %	98.4841 %	99.5012 %	104.6960 %	99.4024 %	98.1939 %
Concentration per Run 1	0.0000 ppm	111.9270 %	99.6778 %	99.3476 %	109.4099 %	99.1250 %	99.3101 %
Concentration per Run 2	0.0001 ppm	101.7911 %	99.5847 %	99.4374 %	102.1172 %	99.1720 %	99.4162 %
Concentration per Run 3	0.0002 ppm	101.3147 %	96.1899 %	99.7187 %	102.5609 %	99.9102 %	95.8555 %
Recovery Percentage 1	1.900 %						
Concentration RSD	62.9 %	5.7 %	2.0 %	0.2 %	3.9 %	0.4 %	2.1 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: LLOQ RL
Analysis started at: 3/10/2025 6:58:52 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0056 ppm	0.0962 ppm	0.0047 ppm	0.0307 ppm	0.0096 ppm	0.0050 ppm	0.1198 ppm
Concentration per Run 1	0.0053 ppm	0.0908 ppm	0.0045 ppm	0.0305 ppm	0.0096 ppm	0.0050 ppm	0.1171 ppm
Concentration per Run 2	0.0059 ppm	0.1039 ppm	0.0045 ppm	0.0305 ppm	0.0095 ppm	0.0050 ppm	0.1183 ppm
Concentration per Run 3	0.0057 ppm	0.0940 ppm	0.0051 ppm	0.0312 ppm	0.0096 ppm	0.0050 ppm	0.1239 ppm
Recovery Percentage 1	112.283 %	96.207 %	94.167 %	102.418 %	95.751 %	100.427 %	119.765 %
Concentration RSD	4.7 %	7.1 %	8.1 %	1.4 %	0.8 %	0.5 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0104 ppm	0.0101 ppm	0.0103 ppm	0.0581 ppm	2.5239 ppm	0.0099 ppm
Concentration per Run 1	0.0041 ppm	0.0102 ppm	0.0099 ppm	0.0105 ppm	0.0592 ppm	2.5666 ppm	0.0112 ppm
Concentration per Run 2	0.0041 ppm	0.0104 ppm	0.0103 ppm	0.0104 ppm	0.0582 ppm	2.5517 ppm	0.0101 ppm
Concentration per Run 3	0.0041 ppm	0.0106 ppm	0.0099 ppm	0.0100 ppm	0.0569 ppm	2.4533 ppm	0.0086 ppm
Recovery Percentage 1	103.331 %	104.107 %	100.552 %	103.074 %	116.231 %	100.954 %	99.455 %
Concentration RSD	0.3 %	1.9 %	2.2 %	2.4 %	1.9 %	2.4 %	12.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1031 ppm	0.0103 ppm	0.0505 ppm	1.9325 ppm	0.0204 ppm	0.0109 ppm	0.0510 ppm
Concentration per Run 1	0.1008 ppm	0.0105 ppm	0.0500 ppm	1.9565 ppm	0.0203 ppm	0.0112 ppm	0.0502 ppm
Concentration per Run 2	0.1041 ppm	0.0102 ppm	0.0504 ppm	1.9322 ppm	0.0205 ppm	0.0108 ppm	0.0511 ppm
Concentration per Run 3	0.1045 ppm	0.0102 ppm	0.0512 ppm	1.9088 ppm	0.0204 ppm	0.0107 ppm	0.0517 ppm
Recovery Percentage 1	103.127 %	103.025 %	101.055 %	96.624 %	102.031 %	108.862 %	101.951 %
Concentration RSD	2.0 %	1.6 %	1.2 %	1.2 %	0.5 %	2.8 %	1.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0104 ppm	0.5455 ppm	0.0529 ppm	0.0099 ppm	0.0100 ppm	0.0195 ppm	0.0102 ppm
Concentration per Run 1	0.0109 ppm	0.5411 ppm	0.0528 ppm	0.0101 ppm	0.0100 ppm	0.0182 ppm	0.0101 ppm
Concentration per Run 2	0.0105 ppm	0.5448 ppm	0.0528 ppm	0.0099 ppm	0.0100 ppm	0.0204 ppm	0.0102 ppm
Concentration per Run 3	0.0098 ppm	0.5504 ppm	0.0531 ppm	0.0097 ppm	0.0102 ppm	0.0198 ppm	0.0103 ppm
Recovery Percentage 1	103.985 %	109.092 %	105.846 %	99.101 %	100.264 %	97.283 %	102.203 %
Concentration RSD	5.3 %	0.9 %	0.3 %	2.0 %	1.2 %	5.7 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0060 ppm	99.6608 %	98.4792 %	98.9798 %	101.2425 %	98.7842 %	100.1169 %
Concentration per Run 1	0.0059 ppm	98.9686 %	98.5021 %	99.1557 %	100.4149 %	99.5067 %	100.2077 %
Concentration per Run 2	0.0060 ppm	99.3899 %	98.6729 %	98.4734 %	100.8260 %	98.7703 %	100.3473 %
Concentration per Run 3	0.0059 ppm	100.6240 %	98.2627 %	99.3103 %	102.4865 %	98.0755 %	99.7957 %
Recovery Percentage 1	119.020 %						
Concentration RSD	0.9 %	0.9 %	0.2 %	0.4 %	1.1 %	0.7 %	0.3 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: ICSA
Analysis started at: 3/10/2025 7:05:13 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	**480.7176 ppm**	-0.0052 ppm	-0.0156 ppm	0.0014 ppm	-0.0002 ppm	**449.1747 ppm**
Concentration per Run 1	0.0031 ppm	478.5829 ppm	-0.0042 ppm	-0.0153 ppm	0.0014 ppm	-0.0002 ppm	445.3565 ppm
Concentration per Run 2	0.0030 ppm	483.1292 ppm	-0.0042 ppm	-0.0154 ppm	0.0014 ppm	-0.0002 ppm	451.7860 ppm
Concentration per Run 3	0.0029 ppm	480.4408 ppm	-0.0072 ppm	-0.0159 ppm	0.0013 ppm	-0.0002 ppm	450.3816 ppm
Recovery Percentage 1	42.491 %	480,717.636 %	-104.318 %	-51.848 %	13.732 %	-3.151 %	449,174.684 %
Concentration RSD	3.7 %	**0.5 %**	33.6 %	1.9 %	5.3 %	4.1 %	**0.8 %**

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0084 ppm	0.0003 ppm	0.0018 ppm	0.0094 ppm	**174.0613 ppm**	0.0076 ppm	-0.0026 ppm
Concentration per Run 1	-0.0085 ppm	0.0005 ppm	0.0016 ppm	0.0101 ppm	173.2843 ppm	0.0274 ppm	-0.0020 ppm
Concentration per Run 2	-0.0083 ppm	0.0001 ppm	0.0019 ppm	0.0091 ppm	174.9881 ppm	0.0092 ppm	-0.0031 ppm
Concentration per Run 3	-0.0085 ppm	0.0004 ppm	0.0021 ppm	0.0091 ppm	173.9114 ppm	-0.0138 ppm	-0.0026 ppm
Recovery Percentage 1	-210.648 %	1.610 %	18.500 %	94.316 %	348,122.563 %	0.305 %	-25.514 %
Concentration RSD	0.9 %	66.6 %	12.3 %	6.1 %	**0.5 %**	271.0 %	21.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	**489.1855 ppm**	0.0000 ppm	-0.0014 ppm	0.0337 ppm	-0.0027 ppm	-0.0105 ppm	0.0037 ppm
Concentration per Run 1	489.4386 ppm	0.0003 ppm	-0.0012 ppm	0.0259 ppm	-0.0029 ppm	-0.0116 ppm	0.0046 ppm
Concentration per Run 2	491.5326 ppm	-0.0004 ppm	-0.0013 ppm	0.0305 ppm	-0.0027 ppm	-0.0093 ppm	0.0065 ppm
Concentration per Run 3	486.5854 ppm	0.0001 ppm	-0.0016 ppm	0.0446 ppm	-0.0025 ppm	-0.0106 ppm	-0.0001 ppm
Recovery Percentage 1	489,185.548 %	-0.128 %	-2.707 %	1.683 %	-10.830 %	-105.113 %	7.358 %
Concentration RSD	**0.5 %**	2,762.9 %	15.8 %	29.1 %	6.1 %	10.6 %	92.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0033 ppm	-0.0083 ppm	0.0016 ppm	0.0054 ppm	-0.0018 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 1	0.0053 ppm	-0.0080 ppm	0.0018 ppm	0.0054 ppm	-0.0020 ppm	0.0006 ppm	-0.0003 ppm
Concentration per Run 2	0.0009 ppm	-0.0107 ppm	0.0021 ppm	0.0054 ppm	-0.0019 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 3	0.0035 ppm	-0.0063 ppm	0.0011 ppm	0.0053 ppm	-0.0016 ppm	-0.0019 ppm	-0.0003 ppm
Recovery Percentage 1	32.567 %	-1.667 %	3.274 %	53.715 %	-18.351 %	-1.554 %	-2.722 %
Concentration RSD	67.5 %	26.7 %	30.8 %	0.7 %	9.4 %	435.8 %	16.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0006 ppm	96.1170 %	85.2848 %	87.5904 %	98.1786 %	76.2717 %	86.6631 %
Concentration per Run 1	0.0008 ppm	97.0567 %	85.2465 %	87.5265 %	98.9812 %	76.3505 %	86.7507 %
Concentration per Run 2	0.0004 ppm	96.1076 %	85.2958 %	87.6711 %	97.7062 %	76.6966 %	86.4730 %
Concentration per Run 3	0.0008 ppm	95.1867 %	85.3120 %	87.5737 %	97.8485 %	75.7680 %	86.7656 %
Recovery Percentage 1	12.832 %						
Concentration RSD	34.7 %	1.0 %	0.0 %	0.1 %	0.7 %	0.6 %	0.2 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: SIC Multi
Analysis started at: 3/10/2025 7:28:29 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	-0.0009 ppm	-0.0058 ppm	0.0015 ppm	0.0004 ppm	-0.0050 ppm	0.0039 ppm
Concentration per Run 1	0.0009 ppm	-0.0025 ppm	-0.0056 ppm	0.0015 ppm	0.0004 ppm	-0.0048 ppm	0.0043 ppm
Concentration per Run 2	0.0013 ppm	0.0023 ppm	-0.0065 ppm	0.0014 ppm	0.0005 ppm	-0.0052 ppm	0.0043 ppm
Concentration per Run 3	0.0012 ppm	-0.0026 ppm	-0.0052 ppm	0.0015 ppm	0.0004 ppm	-0.0052 ppm	0.0030 ppm
Recovery Percentage 1	16.636 %	-0.920 %	-115.619 %	4.875 %	4.186 %	-100.808 %	3.858 %
Concentration RSD	17.7 %	301.6 %	11.4 %	6.1 %	10.3 %	4.6 %	19.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0004 ppm	-0.0164 ppm	20.1992 ppm	-0.0095 ppm	0.0070 ppm	-0.0098 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	-0.0166 ppm	20.1346 ppm	-0.0096 ppm	0.0070 ppm	-0.0142 ppm	-0.0006 ppm
Concentration per Run 2	-0.0005 ppm	-0.0161 ppm	20.1843 ppm	-0.0099 ppm	0.0078 ppm	-0.0036 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	-0.0164 ppm	20.2787 ppm	-0.0089 ppm	0.0062 ppm	-0.0117 ppm	0.0008 ppm
Recovery Percentage 1	-10.239 %	-81.754 %	201,991.936 %	-94.529 %	13.945 %	-0.394 %	2.984 %
Concentration RSD	13.9 %	1.7 %	0.4 %	5.1 %	11.3 %	56.6 %	272.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0349 ppm	18.7171 ppm	0.0037 ppm	-0.0074 ppm	0.0006 ppm	-0.0001 ppm	0.0384 ppm
Concentration per Run 1	-0.0361 ppm	18.3173 ppm	0.0038 ppm	-0.0094 ppm	0.0006 ppm	-0.0003 ppm	0.0394 ppm
Concentration per Run 2	-0.0368 ppm	18.7873 ppm	0.0036 ppm	-0.0084 ppm	0.0006 ppm	0.0003 ppm	0.0370 ppm
Concentration per Run 3	-0.0317 ppm	19.0466 ppm	0.0036 ppm	-0.0045 ppm	0.0006 ppm	-0.0002 ppm	0.0389 ppm
Recovery Percentage 1	-34.853 %	187,170.537 %	7.349 %	-0.372 %	2.313 %	-0.861 %	76.837 %
Concentration RSD	8.0 %	2.0 %	2.7 %	35.3 %	3.2 %	365.6 %	3.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0082 ppm	-0.0689 ppm	-0.0015 ppm	0.0002 ppm	19.3551 ppm	-0.0131 ppm	9.9106 ppm
Concentration per Run 1	-0.0078 ppm	-0.0704 ppm	-0.0016 ppm	0.0001 ppm	19.4011 ppm	-0.0144 ppm	9.8601 ppm
Concentration per Run 2	-0.0093 ppm	-0.0659 ppm	-0.0013 ppm	0.0003 ppm	19.2273 ppm	-0.0129 ppm	9.9401 ppm
Concentration per Run 3	-0.0074 ppm	-0.0703 ppm	-0.0016 ppm	0.0003 ppm	19.4371 ppm	-0.0121 ppm	9.9315 ppm
Recovery Percentage 1	-81.557 %	-13.775 %	-2.926 %	2.379 %	193,551.459 %	-65.541 %	99,105.789 %
Concentration RSD	12.2 %	3.7 %	12.2 %	49.5 %	0.6 %	8.8 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	105.0296 %	98.3980 %	100.1086 %	107.2037 %	99.7939 %	99.8948 %
Concentration per Run 1	0.0009 ppm	107.4513 %	98.7683 %	100.2092 %	109.4041 %	99.6345 %	100.4532 %
Concentration per Run 2	0.0006 ppm	104.5336 %	98.2616 %	100.0735 %	106.6258 %	100.3353 %	99.6876 %
Concentration per Run 3	0.0007 ppm	103.1039 %	98.1641 %	100.0432 %	105.5812 %	99.4119 %	99.5435 %
Recovery Percentage 1	15.024 %						
Concentration RSD	18.4 %	2.1 %	0.3 %	0.1 %	1.8 %	0.5 %	0.5 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: LDR Check
Analysis started at: 3/10/2025 7:35:18 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0032 ppm	0.0710 ppm	18.6394 ppm	16.9461 ppm	18.4144 ppm	4.8344 ppm	0.0112 ppm
Concentration per Run 1	0.0026 ppm	0.0647 ppm	18.6300 ppm	16.9273 ppm	18.1820 ppm	4.7815 ppm	0.0117 ppm
Concentration per Run 2	0.0037 ppm	0.0741 ppm	18.6330 ppm	16.9490 ppm	18.5980 ppm	4.8644 ppm	0.0080 ppm
Concentration per Run 3	0.0032 ppm	0.0744 ppm	18.6551 ppm	16.9619 ppm	18.4632 ppm	4.8573 ppm	0.0140 ppm
Recovery Percentage 1	0.000 %	0.000 %	93.197 %	84.730 %	92.072 %	96.688 %	0.000 %
Concentration RSD	17.8 %	7.7 %	0.1 %	0.1 %	1.2 %	1.0 %	27.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.3965 ppm	4.3677 ppm	0.0010 ppm	19.8082 ppm	0.0052 ppm	507.8806 ppm	19.5684 ppm
Concentration per Run 1	4.3951 ppm	4.3638 ppm	0.0012 ppm	19.9535 ppm	0.0043 ppm	502.4087 ppm	19.5346 ppm
Concentration per Run 2	4.3921 ppm	4.3659 ppm	0.0008 ppm	19.8751 ppm	0.0063 ppm	515.4481 ppm	19.5243 ppm
Concentration per Run 3	4.4023 ppm	4.3732 ppm	0.0011 ppm	19.5960 ppm	0.0049 ppm	505.7850 ppm	19.6464 ppm
Recovery Percentage 1	87.929 %	87.353 %	0.000 %	99.041 %	0.000 %	101.576 %	97.842 %
Concentration RSD	0.1 %	0.1 %	18.7 %	0.9 %	19.3 %	1.3 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0167 ppm	0.0008 ppm	4.4439 ppm	429.5317 ppm	8.4636 ppm	43.2396 ppm	4.6749 ppm
Concentration per Run 1	-0.0172 ppm	0.0009 ppm	4.4372 ppm	433.6529 ppm	8.4591 ppm	43.2229 ppm	4.6702 ppm
Concentration per Run 2	-0.0165 ppm	0.0008 ppm	4.4428 ppm	435.5996 ppm	8.4595 ppm	43.2041 ppm	4.6717 ppm
Concentration per Run 3	-0.0164 ppm	0.0007 ppm	4.4518 ppm	419.3425 ppm	8.4722 ppm	43.2917 ppm	4.6828 ppm
Recovery Percentage 1	0.000 %	0.000 %	88.878 %	85.906 %	84.636 %	86.479 %	93.498 %
Concentration RSD	2.5 %	14.9 %	0.2 %	2.1 %	0.1 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.4408 ppm	20.0048 [SIC 100]	8.5728 ppm	4.8280 ppm	0.0044 ppm	3.9790 ppm	0.0190 ppm
Concentration per Run 1	4.4432 ppm	19.9945 ppm	8.5655 ppm	4.7690 ppm	0.0045 ppm	3.9746 ppm	0.0188 ppm
Concentration per Run 2	4.4397 ppm	20.0017 ppm	8.5680 ppm	4.8689 ppm	0.0044 ppm	3.9744 ppm	0.0190 ppm
Concentration per Run 3	4.4396 ppm	20.0182 ppm	8.5849 ppm	4.8462 ppm	0.0043 ppm	3.9880 ppm	0.0193 ppm
Recovery Percentage 1	88.816 %	100.024 %	85.728 %	96.561 %	0.000 %	79.580 %	0.000 %
Concentration RSD	0.0 %	0.1 %	0.1 %	1.1 %	2.4 %	0.2 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	17.9891 ppm	95.3067 %	86.4350 %	65.2585 %	97.6724 %	99.3054 %	87.8260 %
Concentration per Run 1	17.9719 ppm	96.0803 %	86.5432 %	65.1925 %	98.6888 %	99.3803 %	87.6780 %
Concentration per Run 2	17.9646 ppm	94.5391 %	86.0491 %	65.5686 %	97.0068 %	99.3410 %	87.4362 %
Concentration per Run 3	18.0307 ppm	95.3007 %	86.7127 %	65.0143 %	97.3218 %	99.1950 %	88.3637 %
Recovery Percentage 1	89.945 %						
Concentration RSD	0.2 %	0.8 %	0.4 %	0.4 %	0.9 %	0.1 %	0.5 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: ZLLOQ 0.005 AS,ZN PASS
Analysis started at: 3/10/2025 8:12:00 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	**0.1467 ppm**	0.0050 ppm	**0.0120 ppm**	0.0054 ppm	0.0050 ppm	0.8155 ppm
Concentration per Run 1	0.0049 ppm	0.1529 ppm	0.0053 ppm	0.0123 ppm	0.0055 ppm	0.0052 ppm	0.8411 ppm
Concentration per Run 2	0.0057 ppm	0.1395 ppm	0.0044 ppm	0.0121 ppm	0.0053 ppm	0.0049 ppm	0.8081 ppm
Concentration per Run 3	0.0053 ppm	0.1475 ppm	0.0053 ppm	0.0118 ppm	0.0054 ppm	0.0049 ppm	0.7974 ppm
Recovery Percentage 1	106.030 %	2,933.053 %	100.114 %	240.846 %	107.534 %	99.332 %	0.000 %
Concentration RSD	7.4 %	**4.6 %**	11.2 %	**2.0 %**	1.8 %	3.3 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0050 ppm	0.0052 ppm	0.0051 ppm	0.0054 ppm	**0.2039 ppm**	0.2374 ppm	0.0050 ppm
Concentration per Run 1	0.0051 ppm	0.0053 ppm	0.0050 ppm	0.0054 ppm	0.2084 ppm	0.2669 ppm	0.0057 ppm
Concentration per Run 2	0.0050 ppm	0.0051 ppm	0.0051 ppm	0.0055 ppm	0.2024 ppm	0.2202 ppm	0.0046 ppm
Concentration per Run 3	0.0050 ppm	0.0053 ppm	0.0053 ppm	0.0054 ppm	0.2009 ppm	0.2251 ppm	0.0047 ppm
Recovery Percentage 1	100.920 %	104.388 %	102.804 %	108.667 %	4,078.204 %	0.000 %	0.000 %
Concentration RSD	0.2 %	2.4 %	2.7 %	1.2 %	**2.0 %**	10.8 %	11.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0921 ppm	**0.0062 ppm**	0.0053 ppm	0.2731 ppm	0.0052 ppm	0.0057 ppm	0.0043 ppm
Concentration per Run 1	0.0917 ppm	0.0066 ppm	0.0055 ppm	0.2647 ppm	0.0051 ppm	0.0061 ppm	0.0041 ppm
Concentration per Run 2	0.0932 ppm	0.0061 ppm	0.0054 ppm	0.2763 ppm	0.0051 ppm	0.0060 ppm	0.0037 ppm
Concentration per Run 3	0.0913 ppm	0.0060 ppm	0.0050 ppm	0.2782 ppm	0.0053 ppm	0.0049 ppm	0.0050 ppm
Recovery Percentage 1	0.000 %	124.883 %	105.711 %	0.000 %	103.461 %	113.597 %	85.433 %
Concentration RSD	1.1 %	**5.3 %**	5.5 %	2.7 %	2.2 %	11.3 %	15.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0047 ppm	**0.0552 ppm**	0.0052 ppm	**0.0066 ppm**	0.0056 ppm	**0.0033 ppm**	0.0051 ppm
Concentration per Run 1	0.0039 ppm	0.0551 ppm	0.0051 ppm	0.0068 ppm	0.0058 ppm	0.0021 ppm	0.0049 ppm
Concentration per Run 2	0.0031 ppm	0.0555 ppm	0.0052 ppm	0.0064 ppm	0.0058 ppm	0.0035 ppm	0.0052 ppm
Concentration per Run 3	0.0071 ppm	0.0550 ppm	0.0053 ppm	0.0066 ppm	0.0054 ppm	0.0043 ppm	0.0053 ppm
Recovery Percentage 1	94.434 %	1,104.171 %	103.899 %	131.761 %	112.926 %	65.722 %	102.608 %
Concentration RSD	44.6 %	**0.4 %**	2.0 %	**3.5 %**	3.5 %	**32.5 %**	4.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0060 ppm	97.1760 %	98.4730 %	98.1591 %	98.3520 %	98.6311 %	98.6584 %
Concentration per Run 1	0.0060 ppm	93.4718 %	98.4695 %	98.3683 %	95.3518 %	98.7642 %	98.7448 %
Concentration per Run 2	0.0060 ppm	98.0147 %	98.4377 %	98.0145 %	98.9343 %	98.0851 %	98.5134 %
Concentration per Run 3	0.0060 ppm	100.0414 %	98.5118 %	98.0946 %	100.7698 %	99.0441 %	98.7170 %
Recovery Percentage 1	120.028 %						
Concentration RSD	0.1 %	3.5 %	0.0 %	0.2 %	2.8 %	0.5 %	0.1 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: ZLLOQ 0.01 SE,CU PASS
Analysis started at: 3/10/2025 8:18:22 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0109 ppm	0.0092 ppm	0.0092 ppm	**0.0147 ppm**	0.0101 ppm	0.0103 ppm	0.0130 ppm
Concentration per Run 1	0.0109 ppm	0.0108 ppm	0.0084 ppm	0.0150 ppm	0.0103 ppm	0.0104 ppm	0.0107 ppm
Concentration per Run 2	0.0111 ppm	0.0053 ppm	0.0104 ppm	0.0146 ppm	0.0100 ppm	0.0103 ppm	0.0114 ppm
Concentration per Run 3	0.0108 ppm	0.0116 ppm	0.0087 ppm	0.0146 ppm	0.0100 ppm	0.0103 ppm	0.0168 ppm
Recovery Percentage 1	0.000 %	0.000 %	91.797 %	146.997 %	100.938 %	0.000 %	0.000 %
Concentration RSD	1.7 %	37.5 %	12.1 %	**1.6 %**	1.5 %	0.5 %	25.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0105 ppm	0.0109 ppm	0.0105 ppm	0.0106 ppm	0.0116 ppm	0.1486 ppm	0.0103 ppm
Concentration per Run 1	0.0104 ppm	0.0109 ppm	0.0106 ppm	0.0106 ppm	0.0124 ppm	0.1716 ppm	0.0099 ppm
Concentration per Run 2	0.0106 ppm	0.0107 ppm	0.0106 ppm	0.0106 ppm	0.0114 ppm	0.1207 ppm	0.0103 ppm
Concentration per Run 3	0.0106 ppm	0.0112 ppm	0.0104 ppm	0.0105 ppm	0.0110 ppm	0.1534 ppm	0.0107 ppm
Recovery Percentage 1	0.000 %	109.215 %	105.221 %	105.898 %	0.000 %	0.000 %	102.834 %
Concentration RSD	0.7 %	2.2 %	1.0 %	0.5 %	6.2 %	17.4 %	4.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0104 ppm	0.0105 ppm	0.0103 ppm	0.2141 ppm	0.0110 ppm	0.0109 ppm	0.0105 ppm
Concentration per Run 1	0.0099 ppm	0.0107 ppm	0.0103 ppm	0.2173 ppm	0.0110 ppm	0.0109 ppm	0.0094 ppm
Concentration per Run 2	0.0110 ppm	0.0106 ppm	0.0101 ppm	0.2095 ppm	0.0109 ppm	0.0101 ppm	0.0109 ppm
Concentration per Run 3	0.0102 ppm	0.0101 ppm	0.0105 ppm	0.2156 ppm	0.0110 ppm	0.0117 ppm	0.0111 ppm
Recovery Percentage 1	0.000 %	104.609 %	102.704 %	0.000 %	109.591 %	109.047 %	0.000 %
Concentration RSD	5.3 %	3.2 %	2.0 %	1.9 %	0.8 %	7.4 %	8.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0105 ppm	0.1200 ppm	0.0104 ppm	0.0105 ppm	0.0108 ppm	0.0097 ppm	0.0104 ppm
Concentration per Run 1	0.0101 ppm	0.1191 ppm	0.0108 ppm	0.0105 ppm	0.0108 ppm	0.0089 ppm	0.0104 ppm
Concentration per Run 2	0.0103 ppm	0.1197 ppm	0.0099 ppm	0.0107 ppm	0.0107 ppm	0.0101 ppm	0.0103 ppm
Concentration per Run 3	0.0110 ppm	0.1214 ppm	0.0104 ppm	0.0103 ppm	0.0111 ppm	0.0103 ppm	0.0106 ppm
Recovery Percentage 1	104.701 %	0.000 %	103.575 %	105.024 %	108.278 %	97.469 %	104.318 %
Concentration RSD	4.8 %	1.0 %	4.2 %	1.9 %	1.8 %	7.9 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0108 ppm	100.9995 %	98.3006 %	98.1878 %	100.0086 %	100.0435 %	98.6242 %
Concentration per Run 1	0.0107 ppm	100.1698 %	98.0212 %	98.1159 %	98.7552 %	100.8057 %	98.4774 %
Concentration per Run 2	0.0109 ppm	101.3516 %	98.6957 %	98.1914 %	99.8544 %	99.9275 %	98.8609 %
Concentration per Run 3	0.0108 ppm	101.4772 %	98.1849 %	98.2562 %	101.4162 %	99.3972 %	98.5342 %
Recovery Percentage 1	108.347 %						
Concentration RSD	1.1 %	0.7 %	0.4 %	0.1 %	1.3 %	0.7 %	0.2 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: ZLLOQ 0.100 CA FAILS
Analysis started at: 3/10/2025 8:24:46 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0106 ppm	**0.2935 ppm**	0.0088 ppm	0.0141 ppm	0.0106 ppm	0.0097 ppm	**1.6321 ppm**
Concentration per Run 1	0.0108 ppm	0.2950 ppm	0.0078 ppm	0.0141 ppm	0.0109 ppm	0.0100 ppm	1.6775 ppm
Concentration per Run 2	0.0099 ppm	0.2939 ppm	0.0106 ppm	0.0140 ppm	0.0107 ppm	0.0097 ppm	1.6137 ppm
Concentration per Run 3	0.0111 ppm	0.2917 ppm	0.0080 ppm	0.0144 ppm	0.0103 ppm	0.0095 ppm	1.6052 ppm
Recovery Percentage 1	0.000 %	293.524 %	0.000 %	0.000 %	0.000 %	0.000 %	1,632.148 %
Concentration RSD	5.9 %	**0.6 %**	17.8 %	1.4 %	2.7 %	2.2 %	**2.4 %**

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0101 ppm	0.0106 ppm	0.0101 ppm	0.0109 ppm	0.3958 ppm	0.3762 ppm	0.0100 ppm
Concentration per Run 1	0.0101 ppm	0.0104 ppm	0.0102 ppm	0.0107 ppm	0.4046 ppm	0.3785 ppm	0.0095 ppm
Concentration per Run 2	0.0100 ppm	0.0107 ppm	0.0102 ppm	0.0108 ppm	0.3922 ppm	0.3913 ppm	0.0107 ppm
Concentration per Run 3	0.0101 ppm	0.0108 ppm	0.0099 ppm	0.0111 ppm	0.3905 ppm	0.3589 ppm	0.0097 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.3 %	1.8 %	1.5 %	2.1 %	1.9 %	4.3 %	6.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	**0.1829 ppm**	0.0129 ppm	0.0103 ppm	0.5303 ppm	0.0106 ppm	0.0116 ppm	0.0095 ppm
Concentration per Run 1	0.1832 ppm	0.0131 ppm	0.0104 ppm	0.5360 ppm	0.0104 ppm	0.0114 ppm	0.0091 ppm
Concentration per Run 2	0.1824 ppm	0.0129 ppm	0.0102 ppm	0.5274 ppm	0.0105 ppm	0.0121 ppm	0.0098 ppm
Concentration per Run 3	0.1832 ppm	0.0127 ppm	0.0103 ppm	0.5275 ppm	0.0108 ppm	0.0113 ppm	0.0094 ppm
Recovery Percentage 1	182.894 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	**0.3 %**	1.7 %	1.3 %	0.9 %	1.9 %	4.0 %	3.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0094 ppm	0.1094 ppm	0.0105 ppm	0.0132 ppm	0.0112 ppm	0.0089 ppm	0.0103 ppm
Concentration per Run 1	0.0099 ppm	0.1085 ppm	0.0104 ppm	0.0135 ppm	0.0110 ppm	0.0084 ppm	0.0102 ppm
Concentration per Run 2	0.0080 ppm	0.1088 ppm	0.0108 ppm	0.0131 ppm	0.0111 ppm	0.0083 ppm	0.0103 ppm
Concentration per Run 3	0.0101 ppm	0.1108 ppm	0.0102 ppm	0.0130 ppm	0.0114 ppm	0.0099 ppm	0.0105 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	12.3 %	1.1 %	2.9 %	2.2 %	1.6 %	10.2 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0118 ppm	98.3983 %	98.7213 %	97.9153 %	97.6225 %	97.3620 %	98.7426 %
Concentration per Run 1	0.0119 ppm	95.6727 %	99.2133 %	97.9958 %	94.7375 %	97.2443 %	99.1379 %
Concentration per Run 2	0.0119 ppm	99.0022 %	98.6659 %	98.0979 %	98.4465 %	97.3591 %	98.7800 %
Concentration per Run 3	0.0118 ppm	100.5199 %	98.2848 %	97.6520 %	99.6834 %	97.4825 %	98.3099 %
Recovery Percentage 1	0.000 %						
Concentration RSD	0.6 %	2.5 %	0.5 %	0.2 %	2.6 %	0.1 %	0.4 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: IEC 10PPM V TL- BE-
Analysis started at: 3/10/2025 8:31:42 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0050 ppm	-0.0005 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	-0.0200 ppm
Concentration per Run 1	-0.0003 ppm	-0.0028 ppm	-0.0009 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0179 ppm
Concentration per Run 2	0.0001 ppm	-0.0105 ppm	-0.0003 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	-0.0178 ppm
Concentration per Run 3	-0.0005 ppm	-0.0016 ppm	-0.0004 ppm	0.0027 ppm	0.0002 ppm	0.0000 ppm	-0.0245 ppm
Recovery Percentage 1	-3.421 %	-4.977 %	-10.296 %	8.611 %	0.647 %	0.003 %	-20.044 %
Concentration RSD	123.0 %	97.0 %	70.2 %	3.4 %	132.8 %	7,593.9 %	19.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm	0.0027 ppm	0.0111 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0000 ppm	-0.0003 ppm	0.0031 ppm	0.0095 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0035 ppm	-0.0053 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0004 ppm	-0.0001 ppm	0.0014 ppm	0.0292 ppm	0.0003 ppm
Recovery Percentage 1	-0.395 %	1.915 %	1.939 %	-1.495 %	5.301 %	0.445 %	-3.401 %
Concentration RSD	88.2 %	37.6 %	103.8 %	100.6 %	42.2 %	155.6 %	201.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0004 ppm	-0.0006 ppm	0.0033 ppm	-0.0130 ppm	0.0001 ppm	-0.0002 ppm	0.0062 ppm
Concentration per Run 1	0.0024 ppm	-0.0005 ppm	0.0032 ppm	-0.0122 ppm	0.0000 ppm	-0.0004 ppm	0.0047 ppm
Concentration per Run 2	0.0021 ppm	-0.0008 ppm	0.0034 ppm	-0.0200 ppm	0.0002 ppm	-0.0002 ppm	0.0072 ppm
Concentration per Run 3	-0.0031 ppm	-0.0006 ppm	0.0034 ppm	-0.0068 ppm	0.0002 ppm	0.0001 ppm	0.0069 ppm
Recovery Percentage 1	0.448 %	-5.918 %	6.696 %	-0.650 %	0.573 %	-1.737 %	12.499 %
Concentration RSD	692.7 %	25.0 %	3.2 %	50.9 %	92.5 %	146.3 %	22.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0047 ppm	0.0025 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	**10.3479 [SIC 10]**
Concentration per Run 1	0.0032 ppm	0.0025 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	10.3586 ppm
Concentration per Run 2	0.0056 ppm	0.0025 ppm	-0.0009 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	10.3736 ppm
Concentration per Run 3	0.0051 ppm	0.0025 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm	10.3116 ppm
Recovery Percentage 1	46.552 %	0.502 %	-0.843 %	0.075 %	-0.362 %	-2.590 %	103,479.271 %
Concentration RSD	27.0 %	1.0 %	102.8 %	48.3 %	241.9 %	202.1 %	**0.3 %**

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0017 ppm	102.1888 %	99.2165 %	98.7167 %	101.5454 %	102.7641 %	99.4173 %
Concentration per Run 1	-0.0016 ppm	105.8203 %	99.4492 %	98.7118 %	102.7800 %	103.1699 %	99.4094 %
Concentration per Run 2	-0.0017 ppm	99.9037 %	98.8518 %	98.9492 %	100.7116 %	102.4230 %	99.3009 %
Concentration per Run 3	-0.0017 ppm	100.8424 %	99.3484 %	98.4890 %	101.1447 %	102.6995 %	99.5415 %
Recovery Percentage 1	-33.249 %						
Concentration RSD	1.1 %	3.1 %	0.3 %	0.2 %	1.1 %	0.4 %	0.1 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: LDR 50PPM PB PASS
Analysis started at: 3/10/2025 8:38:22 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0018 ppm	0.0002 ppm	0.0012 ppm	0.0102 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0064 ppm	0.0008 ppm	0.0014 ppm	0.0101 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0111 ppm	-0.0004 ppm	0.0011 ppm	0.0103 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0012 ppm	0.0101 ppm	0.0000 ppm	0.0045 ppm
Concentration RSD	133.8 %	492.5 %	382.7 %	13.2 %	1.0 %	171.1 %	229.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0010 ppm	0.0023 ppm	0.0205 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0024 ppm	0.0078 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0023 ppm	0.0448 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0021 ppm	0.0088 ppm	-0.0004 ppm
Concentration RSD	399.2 %	283.9 %	249.2 %	11.7 %	7.7 %	103.1 %	122.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0068 ppm	0.0001 ppm	**52.3337 ppm**	-0.0005 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0184 ppm	0.0000 ppm	52.6184 ppm	-0.0018 ppm
Concentration per Run 2	0.0014 ppm	0.0000 ppm	0.0001 ppm	0.0077 ppm	0.0003 ppm	52.1343 ppm	-0.0003 ppm
Concentration per Run 3	-0.0027 ppm	0.0001 ppm	0.0003 ppm	-0.0098 ppm	0.0001 ppm	52.2483 ppm	0.0008 ppm
Concentration RSD	581.4 %	521.9 %	57.4 %	195.1 %	107.8 %	0.5 %	283.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	0.0011 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 1	0.0024 ppm	0.0016 ppm	-0.0006 ppm	0.0000 ppm	-0.0004 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 2	0.0015 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 3	0.0004 ppm	0.0012 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm
Concentration RSD	72.4 %	45.5 %	66.5 %	137.0 %	361.7 %	94.0 %	24.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	101.6298 %	98.6055 %	96.7985 %	100.1983 %	99.1186 %	98.4201 %
Concentration per Run 1	0.0000 ppm	103.5997 %	98.9919 %	96.5409 %	100.2401 %	98.5696 %	98.9487 %
Concentration per Run 2	0.0000 ppm	100.5592 %	98.2639 %	97.0304 %	99.8553 %	99.5369 %	97.9696 %
Concentration per Run 3	0.0001 ppm	100.7305 %	98.5608 %	96.8241 %	100.4995 %	99.2493 %	98.3420 %
Concentration RSD	261.2 %	1.7 %	0.4 %	0.3 %	0.3 %	0.5 %	0.5 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: LDR 200PPM FE PASS
Analysis started at: 3/10/2025 8:46:12 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0026 ppm	-0.0016 ppm	-0.0028 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	-0.0042 ppm
Concentration per Run 1	0.0025 ppm	-0.0062 ppm	-0.0028 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	0.0027 ppm	0.0010 ppm	-0.0041 ppm	0.0017 ppm	0.0004 ppm	0.0000 ppm	-0.0086 ppm
Concentration per Run 3	0.0025 ppm	0.0003 ppm	-0.0016 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	-0.0029 ppm
Recovery Percentage 1	36.772 %	-1.637 %	-56.825 %	4.448 %	3.500 %	-0.589 %	-4.233 %
Concentration RSD	4.2 %	241.6 %	42.5 %	23.1 %	23.8 %	53.6 %	91.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0036 ppm	0.0000 ppm	0.0016 ppm	0.0053 ppm	**195.3985 ppm**	0.0082 ppm	0.0008 ppm
Concentration per Run 1	-0.0036 ppm	0.0001 ppm	0.0015 ppm	0.0054 ppm	199.3359 ppm	-0.0017 ppm	0.0013 ppm
Concentration per Run 2	-0.0036 ppm	0.0000 ppm	0.0017 ppm	0.0058 ppm	196.2376 ppm	-0.0119 ppm	0.0000 ppm
Concentration per Run 3	-0.0035 ppm	0.0000 ppm	0.0016 ppm	0.0047 ppm	190.6221 ppm	0.0382 ppm	0.0011 ppm
Recovery Percentage 1	-88.806 %	0.170 %	16.306 %	52.970 %	390,797.030 %	0.328 %	7.810 %
Concentration RSD	2.3 %	188.9 %	6.7 %	10.1 %	**2.3 %**	323.1 %	92.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0124 ppm	0.0000 ppm	-0.0016 ppm	-0.0088 ppm	-0.0051 ppm	-0.0020 ppm	0.0007 ppm
Concentration per Run 1	-0.0108 ppm	0.0001 ppm	-0.0015 ppm	-0.0092 ppm	-0.0052 ppm	-0.0023 ppm	-0.0004 ppm
Concentration per Run 2	-0.0153 ppm	-0.0001 ppm	-0.0017 ppm	-0.0179 ppm	-0.0050 ppm	-0.0018 ppm	0.0019 ppm
Concentration per Run 3	-0.0110 ppm	0.0000 ppm	-0.0016 ppm	0.0007 ppm	-0.0051 ppm	-0.0018 ppm	0.0005 ppm
Recovery Percentage 1	-12.374 %	0.055 %	-3.137 %	-0.440 %	-20.367 %	-19.898 %	1.364 %
Concentration RSD	20.5 %	1,465.2 %	7.7 %	105.3 %	2.6 %	14.2 %	174.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0084 ppm	0.0019 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0026 ppm	0.0003 ppm
Concentration per Run 1	0.0060 ppm	0.0015 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0039 ppm	0.0004 ppm
Concentration per Run 2	0.0097 ppm	0.0020 ppm	0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 3	0.0094 ppm	0.0022 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0003 ppm
Recovery Percentage 1	83.629 %	0.377 %	0.791 %	2.146 %	0.540 %	13.202 %	3.047 %
Concentration RSD	24.7 %	18.0 %	68.6 %	34.5 %	405.6 %	44.7 %	27.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0016 ppm	97.5368 %	96.4972 %	96.6081 %	98.4355 %	96.6586 %	97.0142 %
Concentration per Run 1	-0.0016 ppm	96.5555 %	96.4730 %	96.7316 %	96.8255 %	97.0635 %	97.0267 %
Concentration per Run 2	-0.0017 ppm	96.9361 %	96.2565 %	96.7735 %	98.6286 %	96.1070 %	96.7336 %
Concentration per Run 3	-0.0015 ppm	99.1189 %	96.7622 %	96.3192 %	99.8523 %	96.8052 %	97.2823 %
Recovery Percentage 1	-31.705 %						
Concentration RSD	4.5 %	1.4 %	0.3 %	0.3 %	1.5 %	0.5 %	0.3 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: LDR 500PPM NA PASS
Analysis started at: 3/10/2025 8:52:41 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0011 ppm	-0.0010 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 1	-0.0001 ppm	-0.0102 ppm	-0.0004 ppm	0.0018 ppm	-0.0001 ppm	0.0000 ppm	0.0082 ppm
Concentration per Run 2	0.0009 ppm	0.0071 ppm	-0.0024 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0124 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0105 ppm
Concentration RSD	373.9 %	815.0 %	126.3 %	16.1 %	2,209.5 %	136.0 %	20.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0118 ppm	0.3561 ppm	**0.0058 ppm**
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0115 ppm	0.3113 ppm	0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0121 ppm	0.3546 ppm	0.0063 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0120 ppm	0.4023 ppm	0.0075 ppm
Concentration RSD	138.6 %	9.6 %	86.5 %	18.9 %	2.9 %	12.8 %	**35.2 %**

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0012 ppm	0.0001 ppm	0.0002 ppm	458.2738 ppm	-0.0002 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	-0.0012 ppm	0.0004 ppm	0.0003 ppm	471.9294 ppm	-0.0002 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 2	0.0020 ppm	-0.0001 ppm	0.0002 ppm	458.0799 ppm	-0.0002 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0045 ppm	-0.0001 ppm	0.0000 ppm	444.8122 ppm	-0.0003 ppm	0.0002 ppm	0.0020 ppm
Concentration RSD	262.1 %	399.4 %	90.3 %	3.0 %	18.9 %	44.4 %	430.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	0.0042 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0046 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 2	-0.0009 ppm	0.0039 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0019 ppm	0.0041 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0015 ppm	-0.0001 ppm
Concentration RSD	577.8 %	8.2 %	42.0 %	53.2 %	1,414.1 %	54.1 %	63.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	97.6698 %	89.5425 %	91.8097 %	97.3738 %	87.4637 %	90.7803 %
Concentration per Run 1	0.0000 ppm	96.6246 %	89.4245 %	91.6000 %	95.8626 %	87.6730 %	90.9048 %
Concentration per Run 2	0.0000 ppm	98.4436 %	89.5609 %	91.8414 %	97.7912 %	87.0826 %	90.6128 %
Concentration per Run 3	0.0002 ppm	97.9410 %	89.6421 %	91.9877 %	98.4677 %	87.6356 %	90.8232 %
Concentration RSD	121.7 %	1.0 %	0.1 %	0.2 %	1.4 %	0.4 %	0.2 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: ZLLOQ 0.05 CA PASS
Analysis started at: 3/10/2025 9:30:41 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0531 ppm	0.0491 ppm	0.0499 ppm	0.0500 ppm	0.0478 ppm	0.0493 ppm	0.0479 ppm
Concentration per Run 1	0.0532 ppm	0.0448 ppm	0.0500 ppm	0.0499 ppm	0.0480 ppm	0.0494 ppm	0.0463 ppm
Concentration per Run 2	0.0528 ppm	0.0531 ppm	0.0512 ppm	0.0499 ppm	0.0477 ppm	0.0491 ppm	0.0509 ppm
Concentration per Run 3	0.0534 ppm	0.0493 ppm	0.0485 ppm	0.0503 ppm	0.0477 ppm	0.0493 ppm	0.0465 ppm
Recovery Percentage 1	0.000 %	98.155 %	0.000 %	0.000 %	0.000 %	0.000 %	95.740 %
Concentration RSD	0.6 %	8.5 %	2.7 %	0.5 %	0.3 %	0.3 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0512 ppm	0.0539 ppm	0.0514 ppm	0.0509 ppm	0.0521 ppm	0.5398 ppm	0.0475 ppm
Concentration per Run 1	0.0512 ppm	0.0539 ppm	0.0512 ppm	0.0506 ppm	0.0537 ppm	0.5469 ppm	0.0475 ppm
Concentration per Run 2	0.0513 ppm	0.0541 ppm	0.0515 ppm	0.0510 ppm	0.0504 ppm	0.5466 ppm	0.0473 ppm
Concentration per Run 3	0.0511 ppm	0.0536 ppm	0.0514 ppm	0.0509 ppm	0.0522 ppm	0.5258 ppm	0.0476 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	104.135 %	21.591 %	0.000 %
Concentration RSD	0.2 %	0.4 %	0.3 %	0.4 %	3.2 %	2.2 %	0.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0519 ppm	0.0499 ppm	0.0494 ppm	1.0074 ppm	0.0533 ppm	0.0526 ppm	0.0520 ppm
Concentration per Run 1	0.0524 ppm	0.0503 ppm	0.0492 ppm	1.0068 ppm	0.0531 ppm	0.0520 ppm	0.0520 ppm
Concentration per Run 2	0.0506 ppm	0.0499 ppm	0.0495 ppm	1.0071 ppm	0.0533 ppm	0.0530 ppm	0.0526 ppm
Concentration per Run 3	0.0526 ppm	0.0496 ppm	0.0494 ppm	1.0081 ppm	0.0535 ppm	0.0527 ppm	0.0514 ppm
Recovery Percentage 1	103.724 %	0.000 %	0.000 %	100.735 %	0.000 %	0.000 %	104.042 %
Concentration RSD	2.2 %	0.7 %	0.3 %	0.1 %	0.4 %	0.9 %	1.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0510 ppm	0.5852 ppm	0.0524 ppm	0.0501 ppm	0.0519 ppm	0.0522 ppm	0.0509 ppm
Concentration per Run 1	0.0509 ppm	0.5828 ppm	0.0523 ppm	0.0503 ppm	0.0513 ppm	0.0529 ppm	0.0509 ppm
Concentration per Run 2	0.0506 ppm	0.5870 ppm	0.0527 ppm	0.0500 ppm	0.0517 ppm	0.0523 ppm	0.0506 ppm
Concentration per Run 3	0.0516 ppm	0.5859 ppm	0.0523 ppm	0.0500 ppm	0.0526 ppm	0.0514 ppm	0.0512 ppm
Recovery Percentage 1	0.000 %	117.049 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.0 %	0.4 %	0.5 %	0.4 %	1.2 %	1.5 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0519 ppm	105.2620 %	100.5917 %	99.2884 %	103.5345 %	101.2147 %	100.7074 %
Concentration per Run 1	0.0519 ppm	105.8914 %	100.9576 %	99.3702 %	103.0030 %	101.3326 %	101.0688 %
Concentration per Run 2	0.0520 ppm	104.8962 %	100.6500 %	99.1291 %	103.9306 %	100.9292 %	100.7244 %
Concentration per Run 3	0.0518 ppm	104.9984 %	100.1676 %	99.3659 %	103.6700 %	101.3822 %	100.3290 %
Recovery Percentage 1	103.880 %						
Concentration RSD	0.2 %	0.5 %	0.4 %	0.1 %	0.5 %	0.2 %	0.4 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCV
Analysis started at: 3/10/2025 9:46:45 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5040 ppm	0.4705 ppm	0.4988 ppm	0.4917 ppm	0.4564 ppm	0.4698 ppm	0.4818 ppm
Concentration per Run 1	0.5034 ppm	0.4636 ppm	0.4977 ppm	0.4914 ppm	0.4479 ppm	0.4617 ppm	0.4740 ppm
Concentration per Run 2	0.5032 ppm	0.4721 ppm	0.5003 ppm	0.4927 ppm	0.4602 ppm	0.4736 ppm	0.4862 ppm
Concentration per Run 3	0.5056 ppm	0.4757 ppm	0.4982 ppm	0.4909 ppm	0.4612 ppm	0.4741 ppm	0.4853 ppm
Recovery Percentage 1	100.809 %	94.097 %	99.751 %	98.335 %	91.283 %	93.959 %	96.362 %
Concentration RSD	0.3 %	1.3 %	0.3 %	0.2 %	1.6 %	1.5 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4981 ppm	0.5278 ppm	0.4961 ppm	0.4868 ppm	0.4892 ppm	4.9683 ppm	0.4652 ppm
Concentration per Run 1	0.4976 ppm	0.5277 ppm	0.4955 ppm	0.4867 ppm	0.4825 ppm	4.8937 ppm	0.4584 ppm
Concentration per Run 2	0.4994 ppm	0.5297 ppm	0.4943 ppm	0.4853 ppm	0.4936 ppm	5.0015 ppm	0.4677 ppm
Concentration per Run 3	0.4973 ppm	0.5262 ppm	0.4984 ppm	0.4884 ppm	0.4915 ppm	5.0097 ppm	0.4696 ppm
Recovery Percentage 1	99.618 %	105.568 %	99.219 %	97.360 %	97.837 %	99.366 %	93.048 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.3 %	1.2 %	1.3 %	1.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5236 ppm	0.4742 ppm	0.4878 ppm	9.7098 ppm	0.5175 ppm	0.4974 ppm	0.5120 ppm
Concentration per Run 1	0.5201 ppm	0.4661 ppm	0.4857 ppm	9.5668 ppm	0.5172 ppm	0.4962 ppm	0.5103 ppm
Concentration per Run 2	0.5218 ppm	0.4779 ppm	0.4884 ppm	9.7859 ppm	0.5187 ppm	0.4991 ppm	0.5146 ppm
Concentration per Run 3	0.5290 ppm	0.4787 ppm	0.4892 ppm	9.7766 ppm	0.5166 ppm	0.4971 ppm	0.5112 ppm
Recovery Percentage 1	104.726 %	94.847 %	97.555 %	97.098 %	103.501 %	99.489 %	102.403 %
Concentration RSD	0.9 %	1.5 %	0.4 %	1.3 %	0.2 %	0.3 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4879 ppm	5.7344 ppm	0.5169 ppm	0.4784 ppm	0.5091 ppm	0.5123 ppm	0.4983 ppm
Concentration per Run 1	0.4883 ppm	5.7265 ppm	0.5156 ppm	0.4704 ppm	0.5089 ppm	0.5111 ppm	0.4980 ppm
Concentration per Run 2	0.4897 ppm	5.7501 ppm	0.5187 ppm	0.4822 ppm	0.5078 ppm	0.5138 ppm	0.4972 ppm
Concentration per Run 3	0.4856 ppm	5.7267 ppm	0.5165 ppm	0.4827 ppm	0.5104 ppm	0.5120 ppm	0.4995 ppm
Recovery Percentage 1	97.572 %	109.227 %	103.388 %	95.686 %	101.810 %	102.463 %	99.651 %
Concentration RSD	0.4 %	0.2 %	0.3 %	1.5 %	0.3 %	0.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5100 ppm	106.7266 %	100.1738 %	97.6454 %	105.7546 %	99.9033 %	100.4483 %
Concentration per Run 1	0.5091 ppm	109.1117 %	100.3625 %	97.8642 %	106.5898 %	100.2040 %	100.7084 %
Concentration per Run 2	0.5116 ppm	105.6532 %	100.5207 %	97.5001 %	104.7598 %	99.5374 %	100.7700 %
Concentration per Run 3	0.5094 ppm	105.4150 %	99.6381 %	97.5720 %	105.9141 %	99.9686 %	99.8665 %
Recovery Percentage 1	102.002 %						
Concentration RSD	0.3 %	1.9 %	0.5 %	0.2 %	0.9 %	0.3 %	0.5 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCB
Analysis started at: 3/10/2025 9:52:52 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0004 ppm	-0.0006 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0034 ppm
Concentration per Run 1	0.0005 ppm	0.0002 ppm	0.0017 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0075 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	-0.0017 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0016 ppm	-0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	3.593 %	-0.357 %	-11.886 %	2.138 %	0.484 %	1.293 %	-3.422 %
Concentration RSD	101.8 %	314.7 %	332.6 %	49.8 %	110.9 %	90.2 %	105.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0246 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0341 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0026 ppm	0.0061 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0016 ppm	0.0337 ppm	0.0009 ppm
Recovery Percentage 1	0.413 %	0.289 %	-0.199 %	0.415 %	4.194 %	0.986 %	-1.609 %
Concentration RSD	114.0 %	212.5 %	1,233.7 %	90.2 %	23.5 %	65.1 %	560.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0019 ppm	0.0002 ppm	0.0005 ppm	-0.0018 ppm	0.0003 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0012 ppm	0.0000 ppm	0.0006 ppm	0.0038 ppm	0.0002 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 2	-0.0024 ppm	0.0003 ppm	0.0005 ppm	-0.0043 ppm	0.0005 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 3	-0.0022 ppm	0.0001 ppm	0.0005 ppm	-0.0047 ppm	0.0001 ppm	0.0001 ppm	-0.0017 ppm
Recovery Percentage 1	-1.924 %	1.556 %	1.088 %	-0.088 %	1.064 %	3.245 %	-0.311 %
Concentration RSD	34.8 %	118.0 %	16.0 %	273.1 %	65.9 %	90.1 %	851.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	0.0016 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 1	0.0026 ppm	0.0014 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0012 ppm	0.0018 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 3	0.0015 ppm	0.0014 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0022 ppm	-0.0002 ppm
Recovery Percentage 1	17.432 %	0.312 %	-0.754 %	1.054 %	0.851 %	-5.759 %	-0.688 %
Concentration RSD	41.1 %	15.9 %	67.6 %	41.3 %	308.3 %	85.2 %	177.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	104.4195 %	100.5713 %	98.5296 %	101.9751 %	100.0591 %	99.6812 %
Concentration per Run 1	0.0002 ppm	104.4279 %	100.5402 %	98.4993 %	100.7474 %	99.3459 %	99.6619 %
Concentration per Run 2	0.0001 ppm	104.6767 %	100.8379 %	98.8647 %	102.3612 %	100.3023 %	100.0071 %
Concentration per Run 3	0.0002 ppm	104.1538 %	100.3358 %	98.2246 %	102.8168 %	100.5292 %	99.3745 %
Recovery Percentage 1	2.718 %						
Concentration RSD	44.0 %	0.3 %	0.3 %	0.3 %	1.1 %	0.6 %	0.3 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038406-1 WG2038406
Analysis started at: 3/10/2025 10:06:15 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0116 ppm	0.0003 ppm	0.0054 ppm	0.0021 ppm	0.0000 ppm	**0.4522 ppm**
Concentration per Run 1	0.0001 ppm	0.0041 ppm	-0.0007 ppm	0.0048 ppm	0.0022 ppm	0.0000 ppm	0.4710 ppm
Concentration per Run 2	0.0010 ppm	0.0098 ppm	0.0010 ppm	0.0060 ppm	0.0022 ppm	0.0000 ppm	0.4463 ppm
Concentration per Run 3	0.0006 ppm	0.0209 ppm	0.0005 ppm	0.0053 ppm	0.0020 ppm	0.0000 ppm	0.4392 ppm
Recovery Percentage 1	7.735 %	11.603 %	5.587 %	17.931 %	21.372 %	0.431 %	452.173 %
Concentration RSD	85.3 %	73.6 %	309.0 %	10.9 %	6.4 %	60.6 %	**3.7 %**

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm	0.0114 ppm	0.0972 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm	0.0122 ppm	0.1126 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0018 ppm	0.0114 ppm	0.0942 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0018 ppm	0.0107 ppm	0.0848 ppm	0.0008 ppm
Recovery Percentage 1	0.234 %	0.496 %	0.158 %	17.659 %	22.850 %	3.888 %	9.180 %
Concentration RSD	109.3 %	104.7 %	704.9 %	5.8 %	6.5 %	14.6 %	12.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0470 ppm	0.0022 ppm	0.0003 ppm	**3.5010 ppm**	0.0004 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 1	0.0462 ppm	0.0023 ppm	0.0003 ppm	3.6176 ppm	0.0006 ppm	0.0007 ppm	0.0014 ppm
Concentration per Run 2	0.0450 ppm	0.0022 ppm	0.0002 ppm	3.4861 ppm	0.0003 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 3	0.0499 ppm	0.0021 ppm	0.0003 ppm	3.3994 ppm	0.0003 ppm	-0.0005 ppm	0.0005 ppm
Recovery Percentage 1	47.035 %	22.357 %	0.521 %	175.051 %	1.513 %	-0.963 %	1.836 %
Concentration RSD	5.5 %	4.7 %	27.5 %	**3.1 %**	48.9 %	760.6 %	53.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.1488 ppm	0.0003 ppm	0.0016 ppm	0.0003 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.1458 ppm	-0.0005 ppm	0.0016 ppm	0.0001 ppm	-0.0023 ppm	0.0001 ppm
Concentration per Run 2	0.0015 ppm	0.1552 ppm	0.0009 ppm	0.0015 ppm	0.0006 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.1455 ppm	0.0004 ppm	0.0015 ppm	0.0002 ppm	-0.0033 ppm	0.0001 ppm
Recovery Percentage 1	10.424 %	29.765 %	0.514 %	15.551 %	2.802 %	-12.201 %	0.873 %
Concentration RSD	38.9 %	3.7 %	284.5 %	3.8 %	92.5 %	32.8 %	38.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	**0.0150 ppm**	97.4159 %	99.8539 %	96.9419 %	95.7222 %	96.4881 %	99.9615 %
Concentration per Run 1	0.0150 ppm	94.0107 %	99.6163 %	96.5666 %	92.6909 %	96.1001 %	99.7631 %
Concentration per Run 2	0.0149 ppm	98.6247 %	100.0987 %	96.6245 %	96.5131 %	96.7939 %	100.2542 %
Concentration per Run 3	0.0150 ppm	99.6123 %	99.8466 %	97.6347 %	97.9627 %	96.5705 %	99.8672 %
Recovery Percentage 1	299.624 %						
Concentration RSD	**0.3 %**	3.1 %	0.2 %	0.6 %	2.8 %	0.4 %	0.3 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038402-1 WG2038402
Analysis started at: 3/10/2025 10:12:40 AM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0028 ppm	-0.0005 ppm	0.0017 ppm	0.0003 ppm	-0.0001 ppm	0.0100 ppm
Concentration per Run 1	-0.0003 ppm	-0.0019 ppm	-0.0008 ppm	0.0016 ppm	0.0003 ppm	-0.0001 ppm	0.0128 ppm
Concentration per Run 2	0.0005 ppm	-0.0017 ppm	-0.0006 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run 3	0.0005 ppm	-0.0048 ppm	-0.0002 ppm	0.0017 ppm	0.0002 ppm	-0.0001 ppm	0.0086 ppm
Recovery Percentage 1	3.227 %	-2.801 %	-10.587 %	5.815 %	2.557 %	-1.018 %	10.030 %
Concentration RSD	220.7 %	62.4 %	62.9 %	10.3 %	25.9 %	48.2 %	24.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0030 ppm	0.1187 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0039 ppm	0.0971 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0028 ppm	0.1388 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0023 ppm	0.1202 ppm	0.0024 ppm
Recovery Percentage 1	0.433 %	1.048 %	1.451 %	4.544 %	6.008 %	4.748 %	16.971 %
Concentration RSD	175.2 %	62.0 %	172.7 %	22.1 %	27.9 %	17.6 %	56.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0015 ppm	0.0010 ppm	0.0002 ppm	132.1740 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0007 ppm	0.0009 ppm	0.0001 ppm	133.4335 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 2	0.0027 ppm	0.0009 ppm	0.0001 ppm	132.6421 ppm	-0.0002 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0026 ppm	0.0012 ppm	0.0003 ppm	130.4465 ppm	-0.0002 ppm	-0.0007 ppm	-0.0003 ppm
Recovery Percentage 1	1.519 %	10.181 %	0.332 %	6,608.702 %	-0.314 %	-0.259 %	-0.421 %
Concentration RSD	125.7 %	19.8 %	81.4 %	1.2 %	237.5 %	2,177.2 %	280.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0223 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	-0.0022 ppm	0.0000 ppm
Concentration per Run 1	0.0032 ppm	0.0227 ppm	0.0015 ppm	0.0002 ppm	0.0002 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 2	-0.0024 ppm	0.0213 ppm	0.0022 ppm	0.0002 ppm	-0.0002 ppm	-0.0019 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	0.0228 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	-0.0027 ppm	-0.0002 ppm
Recovery Percentage 1	5.202 %	4.452 %	3.756 %	1.394 %	-0.166 %	-10.884 %	-0.218 %
Concentration RSD	538.6 %	3.8 %	18.4 %	32.3 %	1,247.0 %	21.0 %	735.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	101.1886 %	94.5683 %	94.0178 %	101.0464 %	92.2053 %	95.5832 %
Concentration per Run 1	0.0016 ppm	100.3599 %	94.2800 %	93.8149 %	99.8769 %	92.0909 %	95.5554 %
Concentration per Run 2	0.0016 ppm	101.3138 %	93.9091 %	94.2649 %	101.4102 %	92.3317 %	95.0517 %
Concentration per Run 3	0.0015 ppm	101.8921 %	95.5157 %	93.9736 %	101.8521 %	92.1935 %	96.1425 %
Recovery Percentage 1	31.241 %						
Concentration RSD	3.4 %	0.8 %	0.9 %	0.2 %	1.0 %	0.1 %	0.6 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038406-2 WG2038406
Analysis started at: 3/10/2025 10:19:12 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0497 ppm	2.0089 ppm	0.1079 ppm	0.9212 ppm	1.9369 ppm	0.0501 ppm	9.6498 ppm
Concentration per Run 1	0.0499 ppm	2.0501 ppm	0.1054 ppm	0.9204 ppm	1.9735 ppm	0.0511 ppm	9.8319 ppm
Concentration per Run 2	0.0494 ppm	2.0000 ppm	0.1100 ppm	0.9208 ppm	1.9275 ppm	0.0499 ppm	9.5871 ppm
Concentration per Run 3	0.0497 ppm	1.9765 ppm	0.1084 ppm	0.9223 ppm	1.9096 ppm	0.0494 ppm	9.5302 ppm
Concentration RSD	0.5 %	1.9 %	2.1 %	0.1 %	1.7 %	1.8 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0516 ppm	0.5075 ppm	0.1969 ppm	0.2469 ppm	1.0438 ppm	10.0260 ppm	0.0026 ppm
Concentration per Run 1	0.0517 ppm	0.5077 ppm	0.1971 ppm	0.2466 ppm	1.0643 ppm	10.2756 ppm	0.0024 ppm
Concentration per Run 2	0.0515 ppm	0.5070 ppm	0.1970 ppm	0.2469 ppm	1.0398 ppm	9.9609 ppm	0.0024 ppm
Concentration per Run 3	0.0516 ppm	0.5076 ppm	0.1965 ppm	0.2471 ppm	1.0274 ppm	9.8416 ppm	0.0030 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	1.8 %	2.2 %	14.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.7618 ppm	0.5084 ppm	0.9276 ppm	10.0248 ppm	0.5028 ppm	0.4981 ppm	0.5047 ppm
Concentration per Run 1	9.7617 ppm	0.5185 ppm	0.9252 ppm	10.2304 ppm	0.5023 ppm	0.4983 ppm	0.5046 ppm
Concentration per Run 2	9.7500 ppm	0.5065 ppm	0.9275 ppm	9.9818 ppm	0.5026 ppm	0.4971 ppm	0.5052 ppm
Concentration per Run 3	9.7738 ppm	0.5003 ppm	0.9301 ppm	9.8621 ppm	0.5036 ppm	0.4989 ppm	0.5043 ppm
Concentration RSD	0.1 %	1.8 %	0.3 %	1.9 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1043 ppm	1.1633 ppm	0.9366 ppm	0.9643 ppm	0.9617 ppm	0.1072 ppm	0.4979 ppm
Concentration per Run 1	0.1041 ppm	1.1639 ppm	0.9357 ppm	0.9828 ppm	0.9618 ppm	0.1084 ppm	0.4976 ppm
Concentration per Run 2	0.1042 ppm	1.1648 ppm	0.9370 ppm	0.9607 ppm	0.9607 ppm	0.1059 ppm	0.4975 ppm
Concentration per Run 3	0.1046 ppm	1.1614 ppm	0.9372 ppm	0.9494 ppm	0.9626 ppm	0.1072 ppm	0.4985 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	1.8 %	0.1 %	1.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5026 ppm	98.4946 %	98.2070 %	95.9044 %	97.9750 %	97.6985 %	98.5608 %
Concentration per Run 1	0.5023 ppm	96.0643 %	98.4330 %	96.1601 %	95.7730 %	97.8373 %	98.6083 %
Concentration per Run 2	0.5017 ppm	99.1662 %	98.3024 %	95.8980 %	98.3765 %	97.7341 %	98.6863 %
Concentration per Run 3	0.5037 ppm	100.2532 %	97.8856 %	95.6550 %	99.7755 %	97.5239 %	98.3876 %
Concentration RSD	0.2 %	2.2 %	0.3 %	0.3 %	2.1 %	0.2 %	0.2 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038402-2 WG2038402
Analysis started at: 3/10/2025 10:25:20 AM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0494 ppm	1.9119 ppm	0.1098 ppm	0.9191 ppm	1.8448 ppm	0.0476 ppm	9.2425 ppm
Concentration per Run 1	0.0495 ppm	1.8834 ppm	0.1095 ppm	0.9171 ppm	1.8199 ppm	0.0470 ppm	9.1183 ppm
Concentration per Run 2	0.0503 ppm	1.9119 ppm	0.1091 ppm	0.9198 ppm	1.8435 ppm	0.0476 ppm	9.2500 ppm
Concentration per Run 3	0.0485 ppm	1.9405 ppm	0.1108 ppm	0.9205 ppm	1.8709 ppm	0.0481 ppm	9.3591 ppm
Concentration RSD	1.8 %	1.5 %	0.8 %	0.2 %	1.4 %	1.2 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0513 ppm	0.5063 ppm	0.1958 ppm	0.2461 ppm	0.9949 ppm	9.5518 ppm	0.0021 ppm
Concentration per Run 1	0.0511 ppm	0.5048 ppm	0.1968 ppm	0.2472 ppm	0.9815 ppm	9.4540 ppm	0.0027 ppm
Concentration per Run 2	0.0513 ppm	0.5066 ppm	0.1986 ppm	0.2494 ppm	0.9956 ppm	9.5193 ppm	0.0009 ppm
Concentration per Run 3	0.0515 ppm	0.5076 ppm	0.1919 ppm	0.2417 ppm	1.0077 ppm	9.6820 ppm	0.0025 ppm
Concentration RSD	0.3 %	0.3 %	1.8 %	1.6 %	1.3 %	1.2 %	47.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.7645 ppm	0.4857 ppm	0.9322 ppm	9.6026 ppm	0.5005 ppm	0.4981 ppm	0.5034 ppm
Concentration per Run 1	9.8028 ppm	0.4801 ppm	0.9279 ppm	9.4965 ppm	0.4990 ppm	0.4983 ppm	0.5018 ppm
Concentration per Run 2	9.9005 ppm	0.4861 ppm	0.9325 ppm	9.5923 ppm	0.5003 ppm	0.4964 ppm	0.5022 ppm
Concentration per Run 3	9.5902 ppm	0.4909 ppm	0.9361 ppm	9.7190 ppm	0.5023 ppm	0.4997 ppm	0.5064 ppm
Concentration RSD	1.6 %	1.1 %	0.4 %	1.2 %	0.3 %	0.3 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1046 ppm	1.1617 ppm	0.9386 ppm	0.9206 ppm	0.9646 ppm	0.1071 ppm	0.4969 ppm
Concentration per Run 1	0.1056 ppm	1.1623 ppm	0.9350 ppm	0.9087 ppm	0.9688 ppm	0.1052 ppm	0.4992 ppm
Concentration per Run 2	0.1038 ppm	1.1606 ppm	0.9395 ppm	0.9204 ppm	0.9782 ppm	0.1076 ppm	0.5048 ppm
Concentration per Run 3	0.1045 ppm	1.1621 ppm	0.9413 ppm	0.9328 ppm	0.9468 ppm	0.1086 ppm	0.4868 ppm
Concentration RSD	0.9 %	0.1 %	0.3 %	1.3 %	1.7 %	1.6 %	1.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4959 ppm	102.8217 %	98.2372 %	96.2754 %	102.7580 %	98.0059 %	98.8273 %
Concentration per Run 1	0.4948 ppm	103.9213 %	97.6988 %	96.4389 %	103.3654 %	98.3312 %	98.2868 %
Concentration per Run 2	0.4958 ppm	103.0953 %	96.9230 %	96.4420 %	102.7996 %	98.0263 %	97.5807 %
Concentration per Run 3	0.4971 ppm	101.4485 %	100.0900 %	95.9453 %	102.1089 %	97.6603 %	100.6145 %
Concentration RSD	0.2 %	1.2 %	1.7 %	0.3 %	0.6 %	0.3 %	1.6 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2512560-01 WG2038406
Analysis started at: 3/10/2025 10:31:26 AM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0257 ppm	-0.0009 ppm	0.0195 ppm	0.0333 ppm	0.0000 ppm	2.4691 ppm
Concentration per Run 1	0.0001 ppm	0.0248 ppm	-0.0022 ppm	0.0203 ppm	0.0336 ppm	0.0000 ppm	2.5059 ppm
Concentration per Run 2	0.0000 ppm	0.0315 ppm	-0.0003 ppm	0.0190 ppm	0.0332 ppm	0.0000 ppm	2.4552 ppm
Concentration per Run 3	0.0008 ppm	0.0207 ppm	0.0000 ppm	0.0192 ppm	0.0330 ppm	-0.0001 ppm	2.4463 ppm
Concentration RSD	145.0 %	21.3 %	141.2 %	3.5 %	1.0 %	90.6 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0094 ppm	0.0824 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0108 ppm	0.0928 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0078 ppm	0.0915 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0098 ppm	0.0629 ppm	0.0007 ppm
Concentration RSD	89.6 %	141.9 %	698.9 %	34.9 %	16.1 %	20.5 %	61.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.3915 ppm	0.0003 ppm	0.0031 ppm	1.9975 ppm	0.0002 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.3951 ppm	0.0003 ppm	0.0030 ppm	2.0342 ppm	0.0003 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.3910 ppm	0.0002 ppm	0.0032 ppm	1.9764 ppm	0.0002 ppm	0.0005 ppm	-0.0006 ppm
Concentration per Run 3	0.3883 ppm	0.0003 ppm	0.0031 ppm	1.9819 ppm	0.0002 ppm	0.0008 ppm	-0.0005 ppm
Concentration RSD	0.9 %	29.3 %	2.1 %	1.6 %	34.3 %	83.0 %	675.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.3545 ppm	0.0001 ppm	0.0115 ppm	0.0000 ppm	-0.0019 ppm	0.0002 ppm
Concentration per Run 1	0.0009 ppm	0.3598 ppm	0.0000 ppm	0.0116 ppm	-0.0001 ppm	-0.0022 ppm	0.0001 ppm
Concentration per Run 2	0.0011 ppm	0.3562 ppm	0.0003 ppm	0.0114 ppm	0.0000 ppm	-0.0017 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	0.3475 ppm	-0.0001 ppm	0.0114 ppm	0.0000 ppm	-0.0017 ppm	0.0003 ppm
Concentration RSD	13.4 %	1.8 %	348.8 %	0.8 %	249.2 %	16.5 %	45.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	102.2305 %	99.9708 %	98.0344 %	101.5291 %	98.2352 %	101.0627 %
Concentration per Run 1	0.0009 ppm	100.9502 %	99.6634 %	97.9323 %	99.9344 %	98.6068 %	100.7974 %
Concentration per Run 2	0.0008 ppm	102.1018 %	100.0528 %	97.7558 %	101.6322 %	98.0555 %	101.1943 %
Concentration per Run 3	0.0009 ppm	103.6394 %	100.1961 %	98.4152 %	103.0207 %	98.0434 %	101.1964 %
Concentration RSD	5.1 %	1.3 %	0.3 %	0.3 %	1.5 %	0.3 %	0.2 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038406-3 WG2038406
Analysis started at: 3/10/2025 10:37:50 AM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0491 ppm	2.0055 ppm	0.1060 ppm	0.9140 ppm	1.9547 ppm	0.0496 ppm	11.9915 ppm
Concentration per Run 1	0.0494 ppm	2.0480 ppm	0.1057 ppm	0.9166 ppm	1.9989 ppm	0.0507 ppm	12.2785 ppm
Concentration per Run 2	0.0493 ppm	1.9951 ppm	0.1068 ppm	0.9139 ppm	1.9416 ppm	0.0492 ppm	11.8874 ppm
Concentration per Run 3	0.0485 ppm	1.9734 ppm	0.1054 ppm	0.9117 ppm	1.9236 ppm	0.0489 ppm	11.8086 ppm
Concentration RSD	1.0 %	1.9 %	0.7 %	0.3 %	2.0 %	2.0 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0511 ppm	0.5029 ppm	0.1961 ppm	0.2462 ppm	1.0383 ppm	9.9267 ppm	0.0029 ppm
Concentration per Run 1	0.0513 ppm	0.5048 ppm	0.1978 ppm	0.2484 ppm	1.0607 ppm	10.1787 ppm	0.0023 ppm
Concentration per Run 2	0.0511 ppm	0.5023 ppm	0.1965 ppm	0.2465 ppm	1.0273 ppm	9.8484 ppm	0.0024 ppm
Concentration per Run 3	0.0510 ppm	0.5016 ppm	0.1941 ppm	0.2438 ppm	1.0269 ppm	9.7529 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.3 %	1.0 %	1.0 %	1.9 %	2.3 %	34.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.9358 ppm	0.5043 ppm	0.9372 ppm	11.9288 ppm	0.4981 ppm	0.4941 ppm	0.4988 ppm
Concentration per Run 1	10.0441 ppm	0.5154 ppm	0.9378 ppm	12.1975 ppm	0.4992 ppm	0.4943 ppm	0.5008 ppm
Concentration per Run 2	9.9576 ppm	0.5005 ppm	0.9377 ppm	11.8674 ppm	0.4981 ppm	0.4944 ppm	0.4984 ppm
Concentration per Run 3	9.8056 ppm	0.4970 ppm	0.9360 ppm	11.7214 ppm	0.4969 ppm	0.4935 ppm	0.4973 ppm
Concentration RSD	1.2 %	1.9 %	0.1 %	2.0 %	0.2 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1030 ppm	1.5055 ppm	0.9322 ppm	0.9686 ppm	0.9576 ppm	0.1044 ppm	0.4962 ppm
Concentration per Run 1	0.1009 ppm	1.5105 ppm	0.9348 ppm	0.9907 ppm	0.9666 ppm	0.1050 ppm	0.5021 ppm
Concentration per Run 2	0.1030 ppm	1.5002 ppm	0.9321 ppm	0.9623 ppm	0.9587 ppm	0.1055 ppm	0.4956 ppm
Concentration per Run 3	0.1051 ppm	1.5057 ppm	0.9298 ppm	0.9529 ppm	0.9474 ppm	0.1027 ppm	0.4910 ppm
Concentration RSD	2.0 %	0.3 %	0.3 %	2.0 %	1.0 %	1.4 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4934 ppm	97.0117 %	96.8765 %	95.8047 %	97.2817 %	96.2480 %	97.8267 %
Concentration per Run 1	0.4946 ppm	94.6083 %	95.5262 %	95.5047 %	94.9546 %	96.0634 %	96.7190 %
Concentration per Run 2	0.4937 ppm	98.2685 %	96.9182 %	96.0668 %	98.4411 %	96.2748 %	97.8248 %
Concentration per Run 3	0.4919 ppm	98.1583 %	98.1852 %	95.8425 %	98.4493 %	96.4059 %	98.9362 %
Concentration RSD	0.3 %	2.1 %	1.4 %	0.3 %	2.1 %	0.2 %	1.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038406-4 WG2038406
Analysis started at: 3/10/2025 10:43:54 AM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0168 ppm	-0.0013 ppm	0.0202 ppm	0.0325 ppm	0.0000 ppm	2.4207 ppm
Concentration per Run 1	0.0006 ppm	0.0156 ppm	-0.0009 ppm	0.0191 ppm	0.0331 ppm	0.0000 ppm	2.4598 ppm
Concentration per Run 2	0.0003 ppm	0.0148 ppm	-0.0025 ppm	0.0211 ppm	0.0325 ppm	0.0000 ppm	2.4189 ppm
Concentration per Run 3	0.0004 ppm	0.0199 ppm	-0.0004 ppm	0.0204 ppm	0.0318 ppm	0.0000 ppm	2.3836 ppm
Concentration RSD	34.1 %	16.4 %	84.4 %	5.0 %	2.0 %	432.3 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0113 ppm	0.0774 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0120 ppm	0.0727 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0114 ppm	0.0793 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0104 ppm	0.0802 ppm	0.0026 ppm
Concentration RSD	2,221.6 %	129.5 %	601.4 %	10.9 %	7.2 %	5.3 %	4.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.3745 ppm	0.0003 ppm	0.0030 ppm	1.9531 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.3743 ppm	0.0001 ppm	0.0031 ppm	1.9920 ppm	-0.0001 ppm	-0.0004 ppm	-0.0006 ppm
Concentration per Run 2	0.3754 ppm	0.0005 ppm	0.0030 ppm	1.9398 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 3	0.3738 ppm	0.0003 ppm	0.0028 ppm	1.9277 ppm	0.0000 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	0.2 %	71.5 %	6.7 %	1.8 %	34.6 %	416.1 %	874.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.3733 ppm	0.0037 ppm	0.0113 ppm	0.0003 ppm	-0.0026 ppm	-0.0001 ppm
Concentration per Run 1	0.0023 ppm	0.3650 ppm	0.0039 ppm	0.0114 ppm	0.0002 ppm	-0.0032 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.3741 ppm	0.0038 ppm	0.0113 ppm	0.0001 ppm	-0.0021 ppm	0.0000 ppm
Concentration per Run 3	0.0007 ppm	0.3810 ppm	0.0034 ppm	0.0112 ppm	0.0005 ppm	-0.0026 ppm	-0.0001 ppm
Concentration RSD	126.2 %	2.2 %	7.8 %	1.2 %	63.4 %	20.8 %	57.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0013 ppm	98.8653 %	99.0224 %	98.0674 %	98.9712 %	96.9927 %	100.2739 %
Concentration per Run 1	0.0009 ppm	96.8995 %	98.4924 %	97.5037 %	97.4754 %	96.8374 %	99.7385 %
Concentration per Run 2	0.0019 ppm	99.3479 %	99.4997 %	98.0973 %	99.1726 %	96.2844 %	100.7876 %
Concentration per Run 3	0.0011 ppm	100.3485 %	99.0751 %	98.6014 %	100.2657 %	97.8564 %	100.2955 %
Concentration RSD	39.1 %	1.8 %	0.5 %	0.6 %	1.4 %	0.8 %	0.5 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038406-5 WG2038406
Analysis started at: 3/10/2025 10:50:14 AM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0191 ppm	1.9242 ppm	0.1200 ppm	0.9671 ppm	1.8727 ppm	0.0481 ppm	11.9204 ppm
Concentration per Run 1	0.0186 ppm	1.9581 ppm	0.1204 ppm	0.9654 ppm	1.8918 ppm	0.0487 ppm	12.0367 ppm
Concentration per Run 2	0.0195 ppm	1.9099 ppm	0.1209 ppm	0.9682 ppm	1.8672 ppm	0.0478 ppm	11.8851 ppm
Concentration per Run 3	0.0192 ppm	1.9047 ppm	0.1186 ppm	0.9676 ppm	1.8593 ppm	0.0478 ppm	11.8394 ppm
Concentration RSD	2.4 %	1.5 %	1.0 %	0.2 %	0.9 %	1.0 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0524 ppm	0.5039 ppm	0.1948 ppm	0.2439 ppm	0.9976 ppm	10.0917 ppm	0.0018 ppm
Concentration per Run 1	0.0523 ppm	0.5033 ppm	0.1947 ppm	0.2439 ppm	1.0048 ppm	10.2182 ppm	0.0022 ppm
Concentration per Run 2	0.0524 ppm	0.5042 ppm	0.1951 ppm	0.2445 ppm	0.9928 ppm	10.0447 ppm	0.0018 ppm
Concentration per Run 3	0.0525 ppm	0.5042 ppm	0.1945 ppm	0.2434 ppm	0.9951 ppm	10.0123 ppm	0.0016 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.2 %	0.6 %	1.1 %	17.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3431 ppm	0.4851 ppm	0.9808 ppm	11.8724 ppm	0.5005 ppm	0.5296 ppm	0.4945 ppm
Concentration per Run 1	10.3380 ppm	0.4906 ppm	0.9760 ppm	11.9981 ppm	0.4995 ppm	0.5265 ppm	0.4927 ppm
Concentration per Run 2	10.3967 ppm	0.4831 ppm	0.9823 ppm	11.8468 ppm	0.5004 ppm	0.5297 ppm	0.4965 ppm
Concentration per Run 3	10.2946 ppm	0.4816 ppm	0.9840 ppm	11.7721 ppm	0.5016 ppm	0.5325 ppm	0.4944 ppm
Concentration RSD	0.5 %	1.0 %	0.4 %	1.0 %	0.2 %	0.6 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1163 ppm	1.0998 ppm	0.9820 ppm	0.9769 ppm	0.9912 ppm	0.1192 ppm	0.4924 ppm
Concentration per Run 1	0.1160 ppm	1.0925 ppm	0.9801 ppm	0.9864 ppm	0.9915 ppm	0.1187 ppm	0.4925 ppm
Concentration per Run 2	0.1145 ppm	1.1015 ppm	0.9813 ppm	0.9753 ppm	0.9941 ppm	0.1203 ppm	0.4935 ppm
Concentration per Run 3	0.1184 ppm	1.1055 ppm	0.9846 ppm	0.9689 ppm	0.9882 ppm	0.1186 ppm	0.4911 ppm
Concentration RSD	1.7 %	0.6 %	0.2 %	0.9 %	0.3 %	0.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4966 ppm	101.4779 %	98.1546 %	96.2674 %	101.8779 %	96.9601 %	99.3200 %
Concentration per Run 1	0.4955 ppm	100.7729 %	98.3894 %	96.1286 %	100.9901 %	97.2431 %	99.2560 %
Concentration per Run 2	0.4963 ppm	102.2572 %	97.8970 %	96.4303 %	102.1316 %	96.9579 %	99.0591 %
Concentration per Run 3	0.4980 ppm	101.4035 %	98.1773 %	96.2433 %	102.5119 %	96.6793 %	99.6447 %
Concentration RSD	0.3 %	0.7 %	0.3 %	0.2 %	0.8 %	0.3 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038406-6D5 WG2038406
Analysis started at: 3/10/2025 10:56:18 AM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0043 ppm	0.0000 ppm	0.0059 ppm	0.0075 ppm	0.0000 ppm	0.5473 ppm
Concentration per Run 1	-0.0001 ppm	0.0038 ppm	0.0007 ppm	0.0065 ppm	0.0079 ppm	0.0001 ppm	0.5708 ppm
Concentration per Run 2	0.0006 ppm	0.0022 ppm	-0.0001 ppm	0.0060 ppm	0.0073 ppm	0.0000 ppm	0.5464 ppm
Concentration per Run 3	0.0001 ppm	0.0069 ppm	-0.0007 ppm	0.0053 ppm	0.0072 ppm	0.0000 ppm	0.5246 ppm
Concentration RSD	149.1 %	55.9 %	1,580.0 %	10.7 %	5.2 %	619.9 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0043 ppm	0.0422 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0037 ppm	0.0434 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0043 ppm	0.0471 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0049 ppm	0.0361 ppm	0.0000 ppm
Concentration RSD	1,428.2 %	331.7 %	87.2 %	458.9 %	13.3 %	13.3 %	104.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0812 ppm	0.0002 ppm	0.0012 ppm	0.4277 ppm	0.0002 ppm	-0.0001 ppm	0.0013 ppm
Concentration per Run 1	0.0831 ppm	0.0000 ppm	0.0013 ppm	0.4424 ppm	0.0002 ppm	-0.0002 ppm	0.0017 ppm
Concentration per Run 2	0.0824 ppm	0.0004 ppm	0.0012 ppm	0.4240 ppm	0.0001 ppm	0.0002 ppm	0.0017 ppm
Concentration per Run 3	0.0780 ppm	0.0002 ppm	0.0012 ppm	0.4167 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm
Concentration RSD	3.4 %	111.7 %	3.8 %	3.1 %	42.5 %	323.1 %	60.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	0.0732 ppm	0.0001 ppm	0.0024 ppm	0.0001 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 1	-0.0016 ppm	0.0762 ppm	0.0003 ppm	0.0025 ppm	0.0002 ppm	-0.0029 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	0.0721 ppm	-0.0001 ppm	0.0025 ppm	0.0003 ppm	-0.0015 ppm	-0.0002 ppm
Concentration per Run 3	0.0009 ppm	0.0712 ppm	0.0002 ppm	0.0023 ppm	0.0000 ppm	-0.0008 ppm	0.0003 ppm
Concentration RSD	522.1 %	3.6 %	165.8 %	4.9 %	111.6 %	60.4 %	506.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	96.3501 %	99.9649 %	99.4320 %	94.9518 %	100.1638 %	100.4962 %
Concentration per Run 1	0.0011 ppm	91.5036 %	99.8508 %	98.8647 %	90.9364 %	100.0971 %	100.4922 %
Concentration per Run 2	0.0006 ppm	97.1911 %	100.2165 %	99.6854 %	94.9647 %	100.4527 %	100.5017 %
Concentration per Run 3	0.0004 ppm	100.3558 %	99.8275 %	99.7459 %	98.9542 %	99.9415 %	100.4946 %
Concentration RSD	52.8 %	4.7 %	0.2 %	0.5 %	4.2 %	0.3 %	0.0 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: CCV
Analysis started at: 3/10/2025 11:02:40 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5090 ppm	0.5133 ppm	0.5047 ppm	0.4998 ppm	0.5014 ppm	0.5218 ppm	0.5266 ppm
Concentration per Run 1	0.5095 ppm	0.5224 ppm	0.5061 ppm	0.5001 ppm	0.5150 ppm	0.5363 ppm	0.5468 ppm
Concentration per Run 2	0.5089 ppm	0.5109 ppm	0.5057 ppm	0.5010 ppm	0.4983 ppm	0.5192 ppm	0.5220 ppm
Concentration per Run 3	0.5085 ppm	0.5065 ppm	0.5022 ppm	0.4982 ppm	0.4910 ppm	0.5099 ppm	0.5110 ppm
Recovery Percentage 1	101.790 %	102.653 %	100.935 %	99.955 %	100.285 %	104.360 %	105.315 %
Concentration RSD	0.1 %	1.6 %	0.4 %	0.3 %	2.4 %	2.6 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5056 ppm	0.5277 ppm	0.4991 ppm	0.4924 ppm	0.5372 ppm	5.4305 ppm	0.5152 ppm
Concentration per Run 1	0.5063 ppm	0.5278 ppm	0.4990 ppm	0.4933 ppm	0.5513 ppm	5.5960 ppm	0.5293 ppm
Concentration per Run 2	0.5071 ppm	0.5298 ppm	0.4993 ppm	0.4928 ppm	0.5339 ppm	5.3775 ppm	0.5103 ppm
Concentration per Run 3	0.5034 ppm	0.5256 ppm	0.4989 ppm	0.4910 ppm	0.5264 ppm	5.3180 ppm	0.5061 ppm
Recovery Percentage 1	101.121 %	105.547 %	99.815 %	98.477 %	107.433 %	108.610 %	103.045 %
Concentration RSD	0.4 %	0.4 %	0.0 %	0.2 %	2.4 %	2.7 %	2.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5184 ppm	0.5212 ppm	0.4983 ppm	10.5282 ppm	0.5221 ppm	0.5111 ppm	0.5205 ppm
Concentration per Run 1	0.5220 ppm	0.5353 ppm	0.4973 ppm	10.8308 ppm	0.5227 ppm	0.5118 ppm	0.5208 ppm
Concentration per Run 2	0.5153 ppm	0.5190 ppm	0.5000 ppm	10.4434 ppm	0.5238 ppm	0.5134 ppm	0.5223 ppm
Concentration per Run 3	0.5177 ppm	0.5093 ppm	0.4974 ppm	10.3103 ppm	0.5198 ppm	0.5080 ppm	0.5184 ppm
Recovery Percentage 1	103.670 %	104.238 %	99.655 %	105.282 %	104.419 %	102.212 %	104.098 %
Concentration RSD	0.7 %	2.5 %	0.3 %	2.6 %	0.4 %	0.5 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5003 ppm	5.7954 ppm	0.5271 ppm	0.5300 ppm	0.5106 ppm	0.5195 ppm	0.4994 ppm
Concentration per Run 1	0.5007 ppm	5.7964 ppm	0.5280 ppm	0.5436 ppm	0.5103 ppm	0.5188 ppm	0.4993 ppm
Concentration per Run 2	0.5006 ppm	5.8167 ppm	0.5291 ppm	0.5269 ppm	0.5112 ppm	0.5212 ppm	0.4995 ppm
Concentration per Run 3	0.4997 ppm	5.7731 ppm	0.5241 ppm	0.5195 ppm	0.5102 ppm	0.5185 ppm	0.4994 ppm
Recovery Percentage 1	100.063 %	110.389 %	105.419 %	105.997 %	102.115 %	103.901 %	99.880 %
Concentration RSD	0.1 %	0.4 %	0.5 %	2.3 %	0.1 %	0.3 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5154 ppm	97.0658 %	98.6072 %	97.2716 %	97.5658 %	98.4494 %	99.8485 %
Concentration per Run 1	0.5162 ppm	94.2027 %	98.6583 %	97.4139 %	94.7405 %	98.5025 %	99.8888 %
Concentration per Run 2	0.5167 ppm	97.0350 %	98.7817 %	97.2812 %	97.8612 %	98.0287 %	100.0110 %
Concentration per Run 3	0.5132 ppm	99.9598 %	98.3816 %	97.1197 %	100.0957 %	98.8171 %	99.6458 %
Recovery Percentage 1	103.075 %						
Concentration RSD	0.4 %	3.0 %	0.2 %	0.2 %	2.8 %	0.4 %	0.2 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCB
Analysis started at: 3/10/2025 11:08:47 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	-0.0067 ppm	-0.0011 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	0.0006 ppm	-0.0074 ppm	-0.0004 ppm	0.0022 ppm	0.0001 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 2	0.0000 ppm	-0.0078 ppm	-0.0036 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	-0.0050 ppm	0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	7.954 %	-6.737 %	-21.722 %	5.890 %	0.575 %	-0.536 %	-1.459 %
Concentration RSD	100.3 %	22.8 %	205.7 %	27.5 %	148.4 %	57.8 %	126.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0021 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0020 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0024 ppm	-0.0073 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0019 ppm	0.0085 ppm	0.0018 ppm
Recovery Percentage 1	0.045 %	-0.044 %	-1.610 %	0.764 %	4.153 %	-0.010 %	1.611 %
Concentration RSD	966.7 %	468.8 %	180.8 %	357.5 %	12.2 %	3,210.6 %	938.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0016 ppm	-0.0001 ppm	0.0005 ppm	-0.0167 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	-0.0021 ppm	0.0000 ppm	0.0006 ppm	-0.0247 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0009 ppm	-0.0002 ppm	0.0006 ppm	-0.0014 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	0.0004 ppm	-0.0238 ppm	0.0003 ppm	-0.0003 ppm	0.0008 ppm
Recovery Percentage 1	-1.550 %	-0.837 %	1.045 %	-0.833 %	0.288 %	0.306 %	0.582 %
Concentration RSD	37.3 %	152.3 %	23.7 %	79.3 %	291.9 %	1,124.3 %	164.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	0.0015 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0018 ppm	0.0000 ppm
Concentration per Run 3	0.0022 ppm	0.0013 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0000 ppm
Recovery Percentage 1	16.885 %	0.272 %	-0.333 %	0.242 %	1.186 %	-6.469 %	-0.518 %
Concentration RSD	27.2 %	39.6 %	119.6 %	317.0 %	177.3 %	48.1 %	76.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	102.8936 %	100.1565 %	99.1365 %	100.9552 %	100.0513 %	99.9560 %
Concentration per Run 1	0.0001 ppm	102.2219 %	100.3253 %	98.8208 %	99.8948 %	100.2423 %	100.1065 %
Concentration per Run 2	0.0002 ppm	102.8787 %	100.1120 %	99.2475 %	100.6339 %	99.5902 %	99.9033 %
Concentration per Run 3	0.0001 ppm	103.5803 %	100.0321 %	99.3413 %	102.3368 %	100.3214 %	99.8582 %
Recovery Percentage 1	2.678 %						
Concentration RSD	30.3 %	0.7 %	0.2 %	0.3 %	1.2 %	0.4 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2512865-01 WG2038402
Analysis started at: 3/10/2025 11:26:30 AM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0530 ppm	-0.0003 ppm	0.0047 ppm	0.0405 ppm	0.0000 ppm	7.3481 ppm
Concentration per Run 1	0.0000 ppm	0.0563 ppm	-0.0016 ppm	0.0046 ppm	0.0414 ppm	0.0000 ppm	7.4939 ppm
Concentration per Run 2	0.0002 ppm	0.0529 ppm	-0.0006 ppm	0.0049 ppm	0.0405 ppm	0.0000 ppm	7.3237 ppm
Concentration per Run 3	0.0003 ppm	0.0497 ppm	0.0014 ppm	0.0045 ppm	0.0397 ppm	0.0000 ppm	7.2266 ppm
Concentration RSD	74.0 %	6.2 %	527.3 %	4.3 %	2.1 %	231.2 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0009 ppm	0.0006 ppm	0.0016 ppm	0.0106 ppm	0.4249 ppm	0.0028 ppm
Concentration per Run 1	0.0002 ppm	0.0011 ppm	0.0005 ppm	0.0015 ppm	0.0102 ppm	0.4318 ppm	0.0019 ppm
Concentration per Run 2	0.0003 ppm	0.0009 ppm	0.0008 ppm	0.0018 ppm	0.0114 ppm	0.4367 ppm	0.0026 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	0.0005 ppm	0.0015 ppm	0.0103 ppm	0.4062 ppm	0.0038 ppm
Concentration RSD	6.7 %	13.0 %	27.3 %	11.1 %	6.5 %	3.9 %	35.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4342 ppm	0.0732 ppm	0.0002 ppm	140.2732 ppm	0.0002 ppm	0.0616 ppm	0.0011 ppm
Concentration per Run 1	0.4325 ppm	0.0749 ppm	0.0002 ppm	143.2071 ppm	0.0002 ppm	0.0612 ppm	0.0017 ppm
Concentration per Run 2	0.4369 ppm	0.0731 ppm	0.0003 ppm	139.0195 ppm	-0.0002 ppm	0.0616 ppm	0.0000 ppm
Concentration per Run 3	0.4330 ppm	0.0715 ppm	0.0002 ppm	138.5932 ppm	0.0006 ppm	0.0620 ppm	0.0015 ppm
Concentration RSD	0.6 %	2.3 %	32.5 %	1.8 %	188.2 %	0.6 %	84.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.6264 ppm	0.0028 ppm	0.0347 ppm	0.0003 ppm	-0.0029 ppm	0.0002 ppm
Concentration per Run 1	0.0013 ppm	0.6244 ppm	0.0029 ppm	0.0353 ppm	0.0004 ppm	-0.0029 ppm	0.0000 ppm
Concentration per Run 2	0.0012 ppm	0.6253 ppm	0.0031 ppm	0.0346 ppm	0.0003 ppm	-0.0017 ppm	0.0004 ppm
Concentration per Run 3	0.0003 ppm	0.6295 ppm	0.0023 ppm	0.0341 ppm	0.0002 ppm	-0.0040 ppm	0.0002 ppm
Concentration RSD	58.3 %	0.4 %	15.3 %	1.8 %	31.8 %	39.5 %	92.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0257 ppm	100.3878 %	93.9118 %	92.6640 %	99.6661 %	90.3087 %	94.7777 %
Concentration per Run 1	0.0257 ppm	98.5637 %	94.6436 %	92.3857 %	97.6195 %	90.5449 %	95.5982 %
Concentration per Run 2	0.0256 ppm	100.5821 %	92.9112 %	92.7452 %	100.0337 %	90.5388 %	93.7018 %
Concentration per Run 3	0.0259 ppm	102.0178 %	94.1806 %	92.8609 %	101.3449 %	89.8424 %	95.0330 %
Concentration RSD	0.7 %	1.7 %	1.0 %	0.3 %	1.9 %	0.4 %	1.0 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038402-3 WG2038402
Analysis started at: 3/10/2025 11:32:59 AM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0499 ppm	2.0228 ppm	0.1160 ppm	0.9473 ppm	1.9363 ppm	0.0496 ppm	16.7428 ppm
Concentration per Run 1	0.0504 ppm	2.0713 ppm	0.1167 ppm	0.9491 ppm	1.9764 ppm	0.0507 ppm	17.0899 ppm
Concentration per Run 2	0.0497 ppm	2.0105 ppm	0.1178 ppm	0.9527 ppm	1.9261 ppm	0.0494 ppm	16.6717 ppm
Concentration per Run 3	0.0497 ppm	1.9867 ppm	0.1137 ppm	0.9400 ppm	1.9063 ppm	0.0488 ppm	16.4667 ppm
Concentration RSD	0.9 %	2.2 %	1.8 %	0.7 %	1.9 %	1.9 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0531 ppm	0.5119 ppm	0.1967 ppm	0.2490 ppm	1.0256 ppm	10.8760 ppm	0.0061 ppm
Concentration per Run 1	0.0532 ppm	0.5134 ppm	0.1985 ppm	0.2506 ppm	1.0441 ppm	11.1224 ppm	0.0064 ppm
Concentration per Run 2	0.0534 ppm	0.5146 ppm	0.1963 ppm	0.2485 ppm	1.0210 ppm	10.8088 ppm	0.0058 ppm
Concentration per Run 3	0.0526 ppm	0.5078 ppm	0.1953 ppm	0.2480 ppm	1.0116 ppm	10.6968 ppm	0.0060 ppm
Concentration RSD	0.8 %	0.7 %	0.8 %	0.5 %	1.6 %	2.0 %	4.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8794 ppm	0.5669 ppm	0.9682 ppm	147.8560 ppm	0.5061 ppm	0.5601 ppm	0.5180 ppm
Concentration per Run 1	9.9752 ppm	0.5772 ppm	0.9700 ppm	151.1427 ppm	0.5073 ppm	0.5605 ppm	0.5191 ppm
Concentration per Run 2	9.8264 ppm	0.5648 ppm	0.9733 ppm	148.3381 ppm	0.5095 ppm	0.5636 ppm	0.5196 ppm
Concentration per Run 3	9.8367 ppm	0.5587 ppm	0.9614 ppm	144.0872 ppm	0.5016 ppm	0.5561 ppm	0.5153 ppm
Concentration RSD	0.8 %	1.7 %	0.6 %	2.4 %	0.8 %	0.7 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1097 ppm	1.8130 ppm	0.9579 ppm	0.9893 ppm	0.9751 ppm	0.1029 ppm	0.5021 ppm
Concentration per Run 1	0.1101 ppm	1.8155 ppm	0.9605 ppm	1.0074 ppm	0.9831 ppm	0.1027 ppm	0.5066 ppm
Concentration per Run 2	0.1083 ppm	1.8209 ppm	0.9642 ppm	0.9856 ppm	0.9715 ppm	0.1033 ppm	0.5001 ppm
Concentration per Run 3	0.1106 ppm	1.8025 ppm	0.9491 ppm	0.9749 ppm	0.9709 ppm	0.1028 ppm	0.4997 ppm
Concentration RSD	1.1 %	0.5 %	0.8 %	1.7 %	0.7 %	0.3 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5387 ppm	98.5201 %	93.8959 %	92.6595 %	98.4286 %	91.9483 %	94.9608 %
Concentration per Run 1	0.5399 ppm	97.2489 %	92.8416 %	92.6112 %	96.7427 %	91.6767 %	94.0033 %
Concentration per Run 2	0.5419 ppm	98.8103 %	94.4419 %	92.0254 %	98.5726 %	91.4785 %	95.5019 %
Concentration per Run 3	0.5344 ppm	99.5012 %	94.4041 %	93.3418 %	99.9704 %	92.6896 %	95.3770 %
Concentration RSD	0.7 %	1.2 %	1.0 %	0.7 %	1.6 %	0.7 %	0.9 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2038402-4 WG2038402
Analysis started at: 3/10/2025 11:39:14 AM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0471 ppm	-0.0016 ppm	0.0058 ppm	0.0403 ppm	0.0000 ppm	7.3041 ppm
Concentration per Run 1	0.0000 ppm	0.0540 ppm	-0.0007 ppm	0.0058 ppm	0.0408 ppm	0.0000 ppm	7.4208 ppm
Concentration per Run 2	0.0008 ppm	0.0409 ppm	-0.0023 ppm	0.0058 ppm	0.0401 ppm	0.0000 ppm	7.3085 ppm
Concentration per Run 3	-0.0002 ppm	0.0465 ppm	-0.0018 ppm	0.0058 ppm	0.0398 ppm	0.0001 ppm	7.1828 ppm
Concentration RSD	262.7 %	13.9 %	49.2 %	0.5 %	1.3 %	172.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0008 ppm	0.0004 ppm	0.0014 ppm	0.0101 ppm	0.4726 ppm	0.0049 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	0.0005 ppm	0.0016 ppm	0.0105 ppm	0.5003 ppm	0.0039 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0013 ppm	0.0087 ppm	0.4674 ppm	0.0048 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0012 ppm	0.0111 ppm	0.4501 ppm	0.0060 ppm
Concentration RSD	3.9 %	30.6 %	57.2 %	14.6 %	12.4 %	5.4 %	21.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4222 ppm	0.0725 ppm	0.0007 ppm	136.4872 ppm	0.0003 ppm	0.0594 ppm	-0.0003 ppm
Concentration per Run 1	0.4230 ppm	0.0731 ppm	0.0009 ppm	139.9556 ppm	0.0002 ppm	0.0591 ppm	0.0008 ppm
Concentration per Run 2	0.4219 ppm	0.0726 ppm	0.0007 ppm	135.0912 ppm	0.0004 ppm	0.0598 ppm	-0.0004 ppm
Concentration per Run 3	0.4217 ppm	0.0719 ppm	0.0006 ppm	134.4149 ppm	0.0004 ppm	0.0592 ppm	-0.0015 ppm
Concentration RSD	0.2 %	0.8 %	23.8 %	2.2 %	31.4 %	0.7 %	344.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	0.6076 ppm	0.0005 ppm	0.0344 ppm	0.0004 ppm	-0.0019 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	0.6056 ppm	0.0006 ppm	0.0348 ppm	0.0003 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.6107 ppm	0.0010 ppm	0.0343 ppm	0.0004 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.6065 ppm	0.0000 ppm	0.0340 ppm	0.0004 ppm	-0.0029 ppm	0.0001 ppm
Concentration RSD	120.4 %	0.4 %	94.7 %	1.2 %	13.0 %	45.7 %	46.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0253 ppm	97.7906 %	93.5723 %	93.8590 %	98.5129 %	91.0225 %	94.9676 %
Concentration per Run 1	0.0253 ppm	96.7295 %	93.6026 %	93.8266 %	96.9465 %	90.9883 %	94.7424 %
Concentration per Run 2	0.0255 ppm	97.5728 %	93.4654 %	93.9094 %	98.6957 %	90.7614 %	94.8392 %
Concentration per Run 3	0.0252 ppm	99.0694 %	93.6488 %	93.8409 %	99.8966 %	91.3179 %	95.3211 %
Concentration RSD	0.4 %	1.2 %	0.1 %	0.0 %	1.5 %	0.3 %	0.3 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: CCV
Analysis started at: 3/10/2025 11:45:43 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5066 ppm	0.5205 ppm	0.4916 ppm	0.4884 ppm	0.5012 ppm	0.5204 ppm	0.5259 ppm
Concentration per Run 1	0.5066 ppm	0.5337 ppm	0.4950 ppm	0.4938 ppm	0.5185 ppm	0.5376 ppm	0.5438 ppm
Concentration per Run 2	0.5068 ppm	0.5226 ppm	0.4935 ppm	0.4920 ppm	0.4974 ppm	0.5177 ppm	0.5251 ppm
Concentration per Run 3	0.5064 ppm	0.5052 ppm	0.4862 ppm	0.4794 ppm	0.4876 ppm	0.5061 ppm	0.5088 ppm
Recovery Percentage 1	101.320 %	104.097 %	98.311 %	97.682 %	100.239 %	104.087 %	105.184 %
Concentration RSD	0.0 %	2.8 %	1.0 %	1.6 %	3.2 %	3.1 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4963 ppm	0.5166 ppm	0.4998 ppm	0.4913 ppm	0.5398 ppm	5.4589 ppm	0.5138 ppm
Concentration per Run 1	0.5015 ppm	0.5225 ppm	0.4993 ppm	0.4918 ppm	0.5572 ppm	5.6629 ppm	0.5304 ppm
Concentration per Run 2	0.4999 ppm	0.5199 ppm	0.4998 ppm	0.4912 ppm	0.5384 ppm	5.4311 ppm	0.5114 ppm
Concentration per Run 3	0.4875 ppm	0.5073 ppm	0.5004 ppm	0.4908 ppm	0.5236 ppm	5.2827 ppm	0.4996 ppm
Recovery Percentage 1	99.255 %	103.310 %	99.965 %	98.256 %	107.950 %	109.177 %	102.759 %
Concentration RSD	1.5 %	1.6 %	0.1 %	0.1 %	3.1 %	3.5 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5209 ppm	0.5195 ppm	0.4874 ppm	10.4664 ppm	0.5112 ppm	0.5031 ppm	0.5083 ppm
Concentration per Run 1	0.5216 ppm	0.5371 ppm	0.4911 ppm	10.8383 ppm	0.5165 ppm	0.5075 ppm	0.5125 ppm
Concentration per Run 2	0.5205 ppm	0.5162 ppm	0.4911 ppm	10.3849 ppm	0.5155 ppm	0.5072 ppm	0.5131 ppm
Concentration per Run 3	0.5207 ppm	0.5051 ppm	0.4799 ppm	10.1759 ppm	0.5016 ppm	0.4946 ppm	0.4993 ppm
Recovery Percentage 1	104.188 %	103.893 %	97.473 %	104.664 %	102.246 %	100.621 %	101.661 %
Concentration RSD	0.1 %	3.1 %	1.3 %	3.2 %	1.6 %	1.5 %	1.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4894 ppm	5.6526 ppm	0.5176 ppm	0.5253 ppm	0.5088 ppm	0.5108 ppm	0.4987 ppm
Concentration per Run 1	0.4969 ppm	5.7157 ppm	0.5223 ppm	0.5426 ppm	0.5087 ppm	0.5171 ppm	0.4986 ppm
Concentration per Run 2	0.4907 ppm	5.6988 ppm	0.5217 ppm	0.5220 ppm	0.5084 ppm	0.5140 ppm	0.4981 ppm
Concentration per Run 3	0.4805 ppm	5.5433 ppm	0.5089 ppm	0.5111 ppm	0.5093 ppm	0.5012 ppm	0.4993 ppm
Recovery Percentage 1	97.874 %	107.668 %	103.525 %	105.051 %	101.760 %	102.157 %	99.732 %
Concentration RSD	1.7 %	1.7 %	1.5 %	3.0 %	0.1 %	1.7 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5069 ppm	96.8989 %	98.7014 %	98.6271 %	96.8260 %	99.9693 %	99.7335 %
Concentration per Run 1	0.5125 ppm	93.2126 %	98.7160 %	97.7662 %	93.4448 %	99.0430 %	99.7715 %
Concentration per Run 2	0.5098 ppm	97.3499 %	98.9588 %	97.6535 %	97.1750 %	99.3647 %	99.9776 %
Concentration per Run 3	0.4983 ppm	100.1342 %	98.4295 %	100.4617 %	99.8582 %	101.5003 %	99.4514 %
Recovery Percentage 1	101.377 %						
Concentration RSD	1.5 %	3.6 %	0.3 %	1.6 %	3.3 %	1.3 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCB
Analysis started at: 3/10/2025 11:51:50 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0045 ppm	-0.0005 ppm	0.0012 ppm	0.0001 ppm	-0.0001 ppm	-0.0062 ppm
Concentration per Run 1	0.0004 ppm	0.0066 ppm	0.0002 ppm	0.0012 ppm	0.0001 ppm	-0.0001 ppm	-0.0039 ppm
Concentration per Run 2	0.0007 ppm	-0.0130 ppm	-0.0008 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	-0.0091 ppm
Concentration per Run 3	0.0003 ppm	-0.0070 ppm	-0.0008 ppm	0.0012 ppm	0.0000 ppm	-0.0001 ppm	-0.0056 ppm
Recovery Percentage 1	7.006 %	-4.459 %	-9.065 %	4.078 %	0.758 %	-1.053 %	-6.191 %
Concentration RSD	44.0 %	225.0 %	133.8 %	2.1 %	70.2 %	34.3 %	42.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0020 ppm	0.0171 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0022 ppm	0.0200 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0074 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0026 ppm	0.0238 ppm	0.0007 ppm
Recovery Percentage 1	-0.242 %	0.091 %	-1.773 %	-0.866 %	4.098 %	0.683 %	6.270 %
Concentration RSD	257.5 %	973.1 %	49.2 %	122.9 %	34.0 %	50.2 %	196.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0104 ppm	0.0001 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 1	0.0013 ppm	0.0001 ppm	0.0008 ppm	0.0103 ppm	0.0001 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 2	-0.0003 ppm	0.0004 ppm	0.0006 ppm	0.0109 ppm	0.0000 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 3	-0.0023 ppm	0.0002 ppm	0.0005 ppm	0.0101 ppm	0.0003 ppm	0.0001 ppm	-0.0006 ppm
Recovery Percentage 1	-0.402 %	2.135 %	1.280 %	0.522 %	0.555 %	5.059 %	-0.372 %
Concentration RSD	449.0 %	85.1 %	18.3 %	3.9 %	105.1 %	80.3 %	247.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0016 ppm	0.0024 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 2	0.0024 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0011 ppm	0.0003 ppm
Concentration per Run 3	0.0011 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	17.082 %	0.258 %	-0.356 %	0.004 %	0.358 %	-4.989 %	0.719 %
Concentration RSD	37.4 %	84.1 %	190.3 %	18,197.4 %	373.9 %	50.9 %	249.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	102.8428 %	99.5430 %	98.7891 %	101.9865 %	99.6797 %	99.5275 %
Concentration per Run 1	0.0001 ppm	103.3174 %	99.4161 %	98.9349 %	101.9350 %	99.5058 %	99.5324 %
Concentration per Run 2	0.0002 ppm	102.7664 %	99.3636 %	98.5601 %	101.7073 %	99.8354 %	99.2752 %
Concentration per Run 3	0.0001 ppm	102.4445 %	99.8492 %	98.8724 %	102.3172 %	99.6980 %	99.7749 %
Recovery Percentage 1	1.905 %						
Concentration RSD	65.4 %	0.4 %	0.3 %	0.2 %	0.3 %	0.2 %	0.3 %

ICP DataTrace 5

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LabBook: WG2038397_03102025T5.imexp

Sample: WG2036987-1 WG2036987
Analysis started at: 3/10/2025 12:14:40 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0036 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 1	0.0002 ppm	0.0024 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0070 ppm
Concentration per Run 2	0.0006 ppm	0.0036 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0053 ppm
Concentration per Run 3	0.0004 ppm	0.0048 ppm	-0.0006 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0077 ppm
Recovery Percentage 1	5.379 %	3.593 %	4.628 %	1.639 %	0.524 %	0.214 %	6.632 %
Concentration RSD	48.6 %	33.9 %	310.6 %	9.3 %	201.6 %	401.1 %	18.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0026 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0018 ppm	0.0306 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0024 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0010 ppm	-0.0251 ppm	0.0000 ppm
Recovery Percentage 1	0.385 %	-0.089 %	-2.066 %	2.004 %	2.163 %	0.106 %	-11.034 %
Concentration RSD	147.8 %	458.5 %	57.3 %	88.1 %	62.9 %	1,052.6 %	99.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0143 ppm	0.0001 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 1	-0.0014 ppm	0.0001 ppm	0.0000 ppm	-0.0126 ppm	0.0001 ppm	0.0013 ppm	-0.0007 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0190 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0114 ppm	0.0001 ppm	-0.0001 ppm	-0.0009 ppm
Recovery Percentage 1	-0.440 %	-0.183 %	0.124 %	-0.716 %	0.568 %	4.166 %	-1.060 %
Concentration RSD	220.2 %	530.4 %	62.4 %	28.7 %	60.7 %	192.8 %	92.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0018 ppm	0.0030 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm	0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0029 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0029 ppm	0.0003 ppm
Concentration per Run 2	0.0025 ppm	0.0027 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm	0.0004 ppm
Concentration per Run 3	0.0029 ppm	0.0032 ppm	-0.0005 ppm	-0.0001 ppm	-0.0001 ppm	-0.0012 ppm	0.0003 ppm
Recovery Percentage 1	18.184 %	0.594 %	-1.100 %	0.305 %	-0.410 %	-9.671 %	3.298 %
Concentration RSD	83.2 %	8.6 %	24.5 %	261.6 %	304.2 %	46.0 %	21.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	104.5640 %	100.9425 %	99.4724 %	99.8121 %	101.6706 %	100.9846 %
Concentration per Run 1	0.0000 ppm	103.4118 %	101.2492 %	99.6984 %	97.4835 %	101.3857 %	101.0044 %
Concentration per Run 2	0.0000 ppm	104.2796 %	101.1975 %	99.5035 %	99.9234 %	102.1126 %	101.1049 %
Concentration per Run 3	0.0000 ppm	106.0005 %	100.3807 %	99.2152 %	102.0296 %	101.5135 %	100.8443 %
Recovery Percentage 1	0.272 %						
Concentration RSD	184.8 %	1.3 %	0.5 %	0.2 %	2.3 %	0.4 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2036987-2 WG2036987
Analysis started at: 3/10/2025 12:21:03 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0534 ppm	2.0822 ppm	0.1185 ppm	0.9661 ppm	1.9978 ppm	0.0516 ppm	9.9245 ppm
Concentration per Run 1	0.0531 ppm	2.1260 ppm	0.1177 ppm	0.9652 ppm	2.0410 ppm	0.0528 ppm	10.1549 ppm
Concentration per Run 2	0.0537 ppm	2.0749 ppm	0.1199 ppm	0.9640 ppm	1.9861 ppm	0.0513 ppm	9.8659 ppm
Concentration per Run 3	0.0534 ppm	2.0457 ppm	0.1179 ppm	0.9691 ppm	1.9663 ppm	0.0506 ppm	9.7526 ppm
Concentration RSD	0.6 %	2.0 %	1.0 %	0.3 %	1.9 %	2.3 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0545 ppm	0.5299 ppm	0.2083 ppm	0.2611 ppm	1.0664 ppm	10.4242 ppm	-0.0005 ppm
Concentration per Run 1	0.0545 ppm	0.5292 ppm	0.2079 ppm	0.2603 ppm	1.0911 ppm	10.6830 ppm	0.0012 ppm
Concentration per Run 2	0.0543 ppm	0.5286 ppm	0.2091 ppm	0.2620 ppm	1.0622 ppm	10.3699 ppm	-0.0018 ppm
Concentration per Run 3	0.0547 ppm	0.5320 ppm	0.2078 ppm	0.2611 ppm	1.0459 ppm	10.2198 ppm	-0.0010 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %	2.1 %	2.3 %	284.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3935 ppm	0.5238 ppm	0.9373 ppm	10.3152 ppm	0.5273 ppm	0.5150 ppm	0.5156 ppm
Concentration per Run 1	10.3430 ppm	0.5364 ppm	0.9276 ppm	10.5506 ppm	0.5269 ppm	0.5150 ppm	0.5127 ppm
Concentration per Run 2	10.4382 ppm	0.5208 ppm	0.9358 ppm	10.2448 ppm	0.5256 ppm	0.5129 ppm	0.5152 ppm
Concentration per Run 3	10.3993 ppm	0.5144 ppm	0.9486 ppm	10.1502 ppm	0.5294 ppm	0.5173 ppm	0.5187 ppm
Concentration RSD	0.5 %	2.2 %	1.1 %	2.0 %	0.4 %	0.4 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1180 ppm	1.1584 ppm	0.9841 ppm	0.9951 ppm	1.0097 ppm	0.1170 ppm	0.5245 ppm
Concentration per Run 1	0.1178 ppm	1.1563 ppm	0.9817 ppm	1.0172 ppm	1.0051 ppm	0.1148 ppm	0.5224 ppm
Concentration per Run 2	0.1159 ppm	1.1558 ppm	0.9801 ppm	0.9892 ppm	1.0139 ppm	0.1177 ppm	0.5273 ppm
Concentration per Run 3	0.1202 ppm	1.1631 ppm	0.9905 ppm	0.9790 ppm	1.0100 ppm	0.1184 ppm	0.5237 ppm
Concentration RSD	1.8 %	0.4 %	0.6 %	2.0 %	0.4 %	1.6 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5264 ppm	103.9652 %	99.4481 %	97.2941 %	102.6689 %	100.3432 %	100.3278 %
Concentration per Run 1	0.5267 ppm	102.8366 %	99.9732 %	97.3098 %	100.6074 %	100.4555 %	100.8293 %
Concentration per Run 2	0.5240 ppm	104.4591 %	99.1166 %	97.4668 %	103.2742 %	100.7205 %	100.0928 %
Concentration per Run 3	0.5283 ppm	104.5998 %	99.2546 %	97.1055 %	104.1252 %	99.8536 %	100.0615 %
Concentration RSD	0.4 %	0.9 %	0.5 %	0.2 %	1.8 %	0.4 %	0.4 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511485-01 WG2036497
Analysis started at: 3/10/2025 12:27:08 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0025 ppm	-0.0009 ppm	0.0078 ppm	0.0904 ppm	0.0002 ppm	12.9079 ppm
Concentration per Run 1	0.0003 ppm	0.0015 ppm	-0.0011 ppm	0.0077 ppm	0.0885 ppm	0.0003 ppm	12.6240 ppm
Concentration per Run 2	-0.0001 ppm	0.0059 ppm	0.0001 ppm	0.0078 ppm	0.0923 ppm	0.0003 ppm	13.2230 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	-0.0016 ppm	0.0078 ppm	0.0903 ppm	0.0002 ppm	12.8769 ppm
Concentration RSD	149.2 %	121.1 %	99.2 %	0.5 %	2.1 %	23.7 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0064 ppm	0.0010 ppm	0.0097 ppm	0.0118 ppm	2.5044 ppm	0.0046 ppm
Concentration per Run 1	0.0002 ppm	0.0062 ppm	0.0009 ppm	0.0095 ppm	0.0115 ppm	2.4409 ppm	0.0053 ppm
Concentration per Run 2	0.0002 ppm	0.0066 ppm	0.0010 ppm	0.0099 ppm	0.0112 ppm	2.5520 ppm	0.0039 ppm
Concentration per Run 3	0.0002 ppm	0.0064 ppm	0.0011 ppm	0.0098 ppm	0.0127 ppm	2.5203 ppm	0.0047 ppm
Concentration RSD	12.2 %	3.0 %	12.3 %	1.7 %	6.8 %	2.3 %	15.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2715 ppm	0.0127 ppm	0.0016 ppm	21.1389 ppm	0.0140 ppm	0.0017 ppm	0.0021 ppm
Concentration per Run 1	3.2841 ppm	0.0121 ppm	0.0018 ppm	20.6921 ppm	0.0140 ppm	0.0017 ppm	0.0003 ppm
Concentration per Run 2	3.2722 ppm	0.0131 ppm	0.0017 ppm	21.6541 ppm	0.0142 ppm	0.0017 ppm	0.0029 ppm
Concentration per Run 3	3.2583 ppm	0.0130 ppm	0.0013 ppm	21.0705 ppm	0.0138 ppm	0.0017 ppm	0.0032 ppm
Concentration RSD	0.4 %	4.4 %	17.3 %	2.3 %	1.6 %	2.0 %	73.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	17.3777 ppm	0.0010 ppm	0.2474 ppm	0.0004 ppm	-0.0012 ppm	0.0012 ppm
Concentration per Run 1	0.0039 ppm	17.4299 ppm	0.0015 ppm	0.2417 ppm	0.0005 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 2	0.0006 ppm	17.3896 ppm	0.0010 ppm	0.2536 ppm	0.0004 ppm	-0.0014 ppm	0.0012 ppm
Concentration per Run 3	-0.0008 ppm	17.3135 ppm	0.0005 ppm	0.2468 ppm	0.0003 ppm	-0.0016 ppm	0.0012 ppm
Concentration RSD	197.5 %	0.3 %	47.1 %	2.4 %	27.1 %	35.8 %	7.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0205 ppm	103.8232 %	99.1613 %	97.9481 %	100.6085 %	98.1121 %	99.2839 %
Concentration per Run 1	0.0205 ppm	107.5558 %	98.7131 %	97.7539 %	102.6849 %	97.8414 %	98.9002 %
Concentration per Run 2	0.0206 ppm	101.1228 %	99.1167 %	98.2066 %	98.3221 %	97.9913 %	99.1799 %
Concentration per Run 3	0.0204 ppm	102.7911 %	99.6542 %	97.8838 %	100.8183 %	98.5035 %	99.7714 %
Concentration RSD	0.5 %	3.2 %	0.5 %	0.2 %	2.2 %	0.4 %	0.4 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511485-02 WG2036497
Analysis started at: 3/10/2025 12:33:26 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0007 ppm	0.0003 ppm	0.0073 ppm	0.0899 ppm	0.0002 ppm	12.8846 ppm
Concentration per Run 1	0.0002 ppm	0.0038 ppm	0.0004 ppm	0.0075 ppm	0.0907 ppm	0.0002 ppm	13.0159 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0070 ppm	0.0897 ppm	0.0003 ppm	12.8497 ppm
Concentration per Run 3	0.0005 ppm	-0.0057 ppm	0.0005 ppm	0.0073 ppm	0.0893 ppm	0.0002 ppm	12.7883 ppm
Concentration RSD	99.5 %	642.9 %	36.7 %	3.5 %	0.8 %	11.4 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0064 ppm	0.0033 ppm	0.0060 ppm	0.0096 ppm	2.4990 ppm	0.0057 ppm
Concentration per Run 1	0.0001 ppm	0.0064 ppm	0.0034 ppm	0.0061 ppm	0.0083 ppm	2.5175 ppm	0.0058 ppm
Concentration per Run 2	0.0001 ppm	0.0065 ppm	0.0031 ppm	0.0061 ppm	0.0104 ppm	2.4767 ppm	0.0060 ppm
Concentration per Run 3	0.0002 ppm	0.0062 ppm	0.0034 ppm	0.0058 ppm	0.0101 ppm	2.5029 ppm	0.0051 ppm
Concentration RSD	19.0 %	2.6 %	4.9 %	2.8 %	12.0 %	0.8 %	8.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2751 ppm	0.0125 ppm	0.0004 ppm	21.0333 ppm	0.0137 ppm	0.0019 ppm	0.0009 ppm
Concentration per Run 1	3.2847 ppm	0.0125 ppm	0.0003 ppm	21.2153 ppm	0.0136 ppm	0.0019 ppm	0.0010 ppm
Concentration per Run 2	3.2618 ppm	0.0128 ppm	0.0004 ppm	20.9731 ppm	0.0138 ppm	0.0021 ppm	0.0017 ppm
Concentration per Run 3	3.2789 ppm	0.0122 ppm	0.0003 ppm	20.9114 ppm	0.0137 ppm	0.0017 ppm	-0.0001 ppm
Concentration RSD	0.4 %	2.6 %	14.3 %	0.8 %	0.8 %	9.1 %	101.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	17.3616 ppm	0.0001 ppm	0.2464 ppm	0.0003 ppm	-0.0014 ppm	0.0000 ppm
Concentration per Run 1	0.0009 ppm	17.3555 ppm	0.0004 ppm	0.2476 ppm	0.0002 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	17.4378 ppm	0.0001 ppm	0.2463 ppm	0.0005 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0035 ppm	17.2915 ppm	-0.0001 ppm	0.2454 ppm	0.0003 ppm	-0.0025 ppm	-0.0001 ppm
Concentration RSD	202.0 %	0.4 %	193.8 %	0.5 %	36.0 %	69.6 %	928.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0152 ppm	104.8182 %	99.2695 %	98.0836 %	101.5256 %	98.6845 %	100.0380 %
Concentration per Run 1	0.0153 ppm	105.3122 %	99.0562 %	98.3824 %	100.4456 %	98.9238 %	99.6963 %
Concentration per Run 2	0.0152 ppm	105.0472 %	99.7323 %	97.6173 %	102.0477 %	98.1777 %	100.4092 %
Concentration per Run 3	0.0151 ppm	104.0951 %	99.0202 %	98.2511 %	102.0834 %	98.9520 %	100.0084 %
Concentration RSD	0.6 %	0.6 %	0.4 %	0.4 %	0.9 %	0.4 %	0.4 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511485-03 WG2036497
Analysis started at: 3/10/2025 12:41:25 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0043 ppm	-0.0006 ppm	0.0070 ppm	0.0941 ppm	0.0003 ppm	13.4737 ppm
Concentration per Run 1	0.0003 ppm	0.0039 ppm	-0.0004 ppm	0.0070 ppm	0.0998 ppm	0.0003 ppm	14.3062 ppm
Concentration per Run 2	0.0003 ppm	0.0017 ppm	-0.0013 ppm	0.0069 ppm	0.0920 ppm	0.0003 ppm	13.2172 ppm
Concentration per Run 3	0.0000 ppm	0.0071 ppm	-0.0002 ppm	0.0072 ppm	0.0904 ppm	0.0002 ppm	12.8975 ppm
Concentration RSD	73.2 %	63.1 %	95.2 %	2.2 %	5.3 %	13.3 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0064 ppm	0.0046 ppm	0.0055 ppm	0.0056 ppm	2.6250 ppm	0.0059 ppm
Concentration per Run 1	0.0002 ppm	0.0063 ppm	0.0047 ppm	0.0054 ppm	0.0071 ppm	2.7950 ppm	0.0064 ppm
Concentration per Run 2	0.0002 ppm	0.0066 ppm	0.0046 ppm	0.0057 ppm	0.0054 ppm	2.5707 ppm	0.0052 ppm
Concentration per Run 3	0.0002 ppm	0.0064 ppm	0.0044 ppm	0.0054 ppm	0.0043 ppm	2.5094 ppm	0.0062 ppm
Concentration RSD	5.4 %	2.2 %	3.1 %	2.6 %	24.7 %	5.7 %	10.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2740 ppm	0.0132 ppm	0.0001 ppm	22.0803 ppm	0.0140 ppm	0.0020 ppm	-0.0001 ppm
Concentration per Run 1	3.2755 ppm	0.0143 ppm	0.0000 ppm	23.4124 ppm	0.0141 ppm	0.0020 ppm	-0.0003 ppm
Concentration per Run 2	3.2826 ppm	0.0131 ppm	0.0000 ppm	21.6138 ppm	0.0141 ppm	0.0020 ppm	0.0006 ppm
Concentration per Run 3	3.2637 ppm	0.0123 ppm	0.0002 ppm	21.2148 ppm	0.0138 ppm	0.0018 ppm	-0.0005 ppm
Concentration RSD	0.3 %	7.8 %	144.5 %	5.3 %	1.2 %	5.5 %	701.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	17.4258 ppm	-0.0004 ppm	0.2591 ppm	0.0002 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 1	-0.0017 ppm	17.4041 ppm	-0.0009 ppm	0.2750 ppm	0.0002 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	17.4318 ppm	-0.0005 ppm	0.2532 ppm	0.0001 ppm	-0.0010 ppm	0.0004 ppm
Concentration per Run 3	0.0005 ppm	17.4415 ppm	0.0000 ppm	0.2492 ppm	0.0005 ppm	-0.0014 ppm	0.0000 ppm
Concentration RSD	307.9 %	0.1 %	96.3 %	5.3 %	72.1 %	16.8 %	223.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0147 ppm	100.4905 %	99.4897 %	97.8621 %	97.2144 %	98.4857 %	100.0630 %
Concentration per Run 1	0.0146 ppm	96.4048 %	99.1553 %	98.1400 %	92.3243 %	98.6383 %	99.7158 %
Concentration per Run 2	0.0149 ppm	102.0091 %	99.2328 %	97.8624 %	98.3937 %	98.3388 %	99.7611 %
Concentration per Run 3	0.0146 ppm	103.0577 %	100.0809 %	97.5838 %	100.9250 %	98.4801 %	100.7120 %
Concentration RSD	1.2 %	3.6 %	0.5 %	0.3 %	4.5 %	0.2 %	0.6 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511485-04 WG2036497
Analysis started at: 3/10/2025 12:47:45 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0043 ppm	0.0189 ppm	0.0008 ppm	0.1675 ppm	0.0000 ppm	12.7667 ppm
Concentration per Run 1	0.0003 ppm	0.0086 ppm	0.0187 ppm	0.0009 ppm	0.1671 ppm	0.0000 ppm	12.7429 ppm
Concentration per Run 2	0.0006 ppm	0.0040 ppm	0.0198 ppm	0.0009 ppm	0.1679 ppm	0.0000 ppm	12.8279 ppm
Concentration per Run 3	0.0006 ppm	0.0002 ppm	0.0181 ppm	0.0007 ppm	0.1675 ppm	0.0000 ppm	12.7292 ppm
Concentration RSD	30.6 %	98.1 %	4.6 %	13.0 %	0.2 %	357.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0039 ppm	0.0003 ppm	0.0097 ppm	0.0041 ppm	2.4384 ppm	0.0072 ppm
Concentration per Run 1	0.0000 ppm	0.0039 ppm	0.0003 ppm	0.0096 ppm	0.0038 ppm	2.4269 ppm	0.0064 ppm
Concentration per Run 2	0.0000 ppm	0.0039 ppm	0.0003 ppm	0.0099 ppm	0.0044 ppm	2.4578 ppm	0.0082 ppm
Concentration per Run 3	0.0000 ppm	0.0038 ppm	0.0002 ppm	0.0097 ppm	0.0039 ppm	2.4304 ppm	0.0070 ppm
Concentration RSD	324.2 %	2.3 %	9.6 %	1.6 %	8.3 %	0.7 %	12.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.3622 ppm	0.0090 ppm	0.0001 ppm	20.8580 ppm	0.0140 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	3.3601 ppm	0.0090 ppm	0.0003 ppm	20.7829 ppm	0.0140 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	3.3639 ppm	0.0090 ppm	0.0001 ppm	20.9553 ppm	0.0141 ppm	0.0008 ppm	-0.0011 ppm
Concentration per Run 3	3.3626 ppm	0.0090 ppm	-0.0001 ppm	20.8357 ppm	0.0138 ppm	0.0016 ppm	0.0010 ppm
Concentration RSD	0.1 %	0.1 %	196.7 %	0.4 %	1.0 %	35.5 %	1,288.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	17.6657 ppm	-0.0001 ppm	0.6568 ppm	0.0002 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	17.6389 ppm	-0.0003 ppm	0.6549 ppm	0.0003 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 2	0.0009 ppm	17.7754 ppm	-0.0004 ppm	0.6592 ppm	0.0002 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	17.5829 ppm	0.0004 ppm	0.6565 ppm	0.0002 ppm	-0.0023 ppm	0.0000 ppm
Concentration RSD	58.1 %	0.6 %	433.9 %	0.3 %	25.8 %	47.9 %	208.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0209 ppm	106.3136 %	98.9695 %	97.9488 %	103.1255 %	98.2553 %	100.0992 %
Concentration per Run 1	0.0209 ppm	107.9115 %	99.2774 %	97.9823 %	103.1690 %	98.5756 %	100.2382 %
Concentration per Run 2	0.0210 ppm	105.5443 %	98.9904 %	97.8796 %	102.7619 %	97.6726 %	99.9504 %
Concentration per Run 3	0.0206 ppm	105.4850 %	98.6407 %	97.9843 %	103.4457 %	98.5176 %	100.1089 %
Concentration RSD	1.0 %	1.3 %	0.3 %	0.1 %	0.3 %	0.5 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511529-01 WG2036471
Analysis started at: 3/10/2025 12:54:02 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0042 ppm	-0.0005 ppm	0.0079 ppm	0.0267 ppm	-0.0001 ppm	16.4597 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	-0.0003 ppm	0.0077 ppm	0.0281 ppm	0.0000 ppm	17.3979 ppm
Concentration per Run 2	-0.0001 ppm	0.0075 ppm	0.0009 ppm	0.0077 ppm	0.0262 ppm	-0.0001 ppm	16.0810 ppm
Concentration per Run 3	0.0003 ppm	0.0058 ppm	-0.0020 ppm	0.0083 ppm	0.0258 ppm	-0.0001 ppm	15.9001 ppm
Concentration RSD	389.4 %	105.3 %	321.7 %	4.0 %	4.6 %	11.4 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0003 ppm	3.1842 ppm	0.9432 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	3.3601 ppm	1.0263 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	-0.0004 ppm	0.0004 ppm	3.1187 ppm	0.8884 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0003 ppm	3.0737 ppm	0.9149 ppm	0.0010 ppm
Concentration RSD	28.6 %	12.5 %	596.0 %	43.8 %	4.8 %	7.8 %	20.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.7812 ppm	0.0665 ppm	0.0004 ppm	7.8085 ppm	0.0013 ppm	0.0006 ppm	-0.0005 ppm
Concentration per Run 1	5.7385 ppm	0.0704 ppm	0.0005 ppm	8.2131 ppm	0.0014 ppm	0.0008 ppm	-0.0005 ppm
Concentration per Run 2	5.7980 ppm	0.0648 ppm	0.0004 ppm	7.6641 ppm	0.0014 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 3	5.8070 ppm	0.0644 ppm	0.0004 ppm	7.5483 ppm	0.0011 ppm	0.0009 ppm	0.0000 ppm
Concentration RSD	0.6 %	5.0 %	6.4 %	4.5 %	12.7 %	82.9 %	89.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	10.0510 ppm	-0.0002 ppm	0.0886 ppm	0.0002 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	-0.0004 ppm	10.0507 ppm	-0.0004 ppm	0.0935 ppm	0.0001 ppm	-0.0017 ppm	0.0004 ppm
Concentration per Run 2	0.0017 ppm	10.0408 ppm	-0.0004 ppm	0.0871 ppm	0.0003 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 3	-0.0032 ppm	10.0615 ppm	0.0002 ppm	0.0852 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm
Concentration RSD	375.5 %	0.1 %	171.6 %	4.9 %	59.6 %	142.5 %	169.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	100.0596 %	99.1278 %	97.9768 %	97.9707 %	98.5708 %	100.6023 %
Concentration per Run 1	0.0015 ppm	95.9067 %	99.7913 %	97.8521 %	92.5791 %	98.6662 %	101.3293 %
Concentration per Run 2	0.0016 ppm	102.3448 %	98.7920 %	97.6468 %	100.4082 %	98.5379 %	100.4480 %
Concentration per Run 3	0.0015 ppm	101.9272 %	98.8001 %	98.4316 %	100.9249 %	98.5084 %	100.0297 %
Concentration RSD	3.8 %	3.6 %	0.6 %	0.4 %	4.8 %	0.1 %	0.7 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511466-01 WG2036987
Analysis started at: 3/10/2025 1:00:20 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0943 ppm	0.0050 ppm	0.0996 ppm	0.0496 ppm	-0.0001 ppm	197.1260 ppm
Concentration per Run 1	-0.0001 ppm	0.1095 ppm	0.0060 ppm	0.1002 ppm	0.0519 ppm	-0.0001 ppm	206.4783 ppm
Concentration per Run 2	-0.0002 ppm	0.0900 ppm	0.0060 ppm	0.0997 ppm	0.0490 ppm	0.0000 ppm	195.6895 ppm
Concentration per Run 3	0.0002 ppm	0.0833 ppm	0.0030 ppm	0.0988 ppm	0.0477 ppm	-0.0001 ppm	189.2102 ppm
Concentration RSD	2,673.1 %	14.4 %	35.1 %	0.7 %	4.3 %	87.0 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0007 ppm	0.0083 ppm	0.0209 ppm	0.0147 ppm	0.5203 ppm	5.5561 ppm	0.0028 ppm
Concentration per Run 1	-0.0007 ppm	0.0081 ppm	0.0207 ppm	0.0149 ppm	0.5431 ppm	5.8124 ppm	0.0021 ppm
Concentration per Run 2	-0.0007 ppm	0.0084 ppm	0.0211 ppm	0.0148 ppm	0.5157 ppm	5.5022 ppm	0.0031 ppm
Concentration per Run 3	-0.0007 ppm	0.0083 ppm	0.0209 ppm	0.0146 ppm	0.5019 ppm	5.3536 ppm	0.0031 ppm
Concentration RSD	1.4 %	1.6 %	1.1 %	1.1 %	4.0 %	4.2 %	21.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	26.3268 ppm	0.0887 ppm	0.0026 ppm	146.8905 ppm	0.0877 ppm	0.0011 ppm	-0.0006 ppm
Concentration per Run 1	26.3013 ppm	0.0931 ppm	0.0028 ppm	155.9412 ppm	0.0879 ppm	0.0014 ppm	-0.0013 ppm
Concentration per Run 2	26.3539 ppm	0.0879 ppm	0.0026 ppm	143.1999 ppm	0.0880 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 3	26.3253 ppm	0.0850 ppm	0.0024 ppm	141.5305 ppm	0.0870 ppm	0.0005 ppm	-0.0009 ppm
Concentration RSD	0.1 %	4.7 %	6.6 %	5.4 %	0.6 %	48.0 %	173.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0022 ppm	8.3585 ppm	0.0000 ppm	0.3235 ppm	0.0015 ppm	-0.0010 ppm	0.0035 ppm
Concentration per Run 1	0.0001 ppm	8.3963 ppm	-0.0002 ppm	0.3390 ppm	0.0015 ppm	-0.0006 ppm	0.0036 ppm
Concentration per Run 2	-0.0043 ppm	8.3809 ppm	0.0001 ppm	0.3208 ppm	0.0016 ppm	-0.0007 ppm	0.0036 ppm
Concentration per Run 3	-0.0022 ppm	8.2982 ppm	0.0000 ppm	0.3106 ppm	0.0014 ppm	-0.0017 ppm	0.0032 ppm
Concentration RSD	101.1 %	0.6 %	421.0 %	4.4 %	7.1 %	65.2 %	6.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0069 ppm	96.0618 %	92.1744 %	91.5158 %	95.2552 %	88.1748 %	93.8948 %
Concentration per Run 1	0.0068 ppm	92.8371 %	92.3914 %	91.5500 %	90.7960 %	87.8252 %	93.8810 %
Concentration per Run 2	0.0070 ppm	96.3291 %	92.4415 %	91.5338 %	95.9294 %	88.0371 %	94.0241 %
Concentration per Run 3	0.0069 ppm	99.0193 %	91.6905 %	91.4636 %	99.0403 %	88.6619 %	93.7794 %
Concentration RSD	0.7 %	3.2 %	0.5 %	0.1 %	4.4 %	0.5 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511503-02 WG2036987
Analysis started at: 3/10/2025 1:06:43 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0010 ppm	0.0119 ppm	0.0824 ppm	0.0197 ppm	0.0327 ppm	0.0001 ppm	11.7889 ppm
Concentration per Run 1	0.0011 ppm	0.0109 ppm	0.0821 ppm	0.0200 ppm	0.0341 ppm	0.0001 ppm	12.2784 ppm
Concentration per Run 2	0.0014 ppm	0.0095 ppm	0.0825 ppm	0.0192 ppm	0.0323 ppm	0.0001 ppm	11.6696 ppm
Concentration per Run 3	0.0006 ppm	0.0153 ppm	0.0825 ppm	0.0199 ppm	0.0317 ppm	0.0001 ppm	11.4188 ppm
Concentration RSD	39.5 %	25.7 %	0.3 %	2.3 %	3.8 %	25.5 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0010 ppm	0.0015 ppm	0.0010 ppm	0.0029 ppm	48.5141 ppm	3.5593 ppm	0.0008 ppm
Concentration per Run 1	-0.0010 ppm	0.0015 ppm	0.0007 ppm	0.0029 ppm	50.4327 ppm	3.6990 ppm	0.0003 ppm
Concentration per Run 2	-0.0011 ppm	0.0015 ppm	0.0011 ppm	0.0031 ppm	47.9781 ppm	3.5165 ppm	0.0015 ppm
Concentration per Run 3	-0.0010 ppm	0.0015 ppm	0.0011 ppm	0.0027 ppm	47.1315 ppm	3.4625 ppm	0.0005 ppm
Concentration RSD	2.3 %	2.9 %	21.6 %	5.9 %	3.5 %	3.5 %	80.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.2249 ppm	2.9375 ppm	0.0013 ppm	26.5525 ppm	-0.0018 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 1	8.2591 ppm	3.0570 ppm	0.0013 ppm	27.6151 ppm	-0.0016 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 2	8.2057 ppm	2.9051 ppm	0.0012 ppm	26.3108 ppm	-0.0020 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	8.2101 ppm	2.8504 ppm	0.0014 ppm	25.7314 ppm	-0.0017 ppm	0.0001 ppm	-0.0009 ppm
Concentration RSD	0.4 %	3.6 %	6.9 %	3.6 %	11.0 %	73.4 %	92.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	9.6769 ppm	-0.0002 ppm	0.1357 ppm	0.0004 ppm	-0.0019 ppm	0.0041 ppm
Concentration per Run 1	-0.0031 ppm	9.6447 ppm	0.0001 ppm	0.1412 ppm	0.0004 ppm	-0.0028 ppm	0.0042 ppm
Concentration per Run 2	0.0017 ppm	9.7015 ppm	-0.0001 ppm	0.1342 ppm	0.0004 ppm	-0.0030 ppm	0.0041 ppm
Concentration per Run 3	-0.0007 ppm	9.6844 ppm	-0.0007 ppm	0.1316 ppm	0.0003 ppm	0.0001 ppm	0.0039 ppm
Concentration RSD	337.0 %	0.3 %	158.6 %	3.7 %	11.3 %	91.6 %	3.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0098 ppm	98.8949 %	97.8601 %	97.9674 %	99.6356 %	96.5540 %	99.5158 %
Concentration per Run 1	0.0098 ppm	95.4105 %	97.7490 %	97.9327 %	96.4396 %	96.9739 %	99.3368 %
Concentration per Run 2	0.0098 ppm	99.9480 %	97.9817 %	97.6291 %	100.6268 %	96.1858 %	99.8046 %
Concentration per Run 3	0.0098 ppm	101.3263 %	97.8495 %	98.3405 %	101.8405 %	96.5024 %	99.4062 %
Concentration RSD	0.5 %	3.1 %	0.1 %	0.4 %	2.8 %	0.4 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511503-03 WG2036987
Analysis started at: 3/10/2025 1:13:04 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0028 ppm	0.0014 ppm	0.0155 ppm	0.0004 ppm	0.0000 ppm	11.1097 ppm
Concentration per Run 1	0.0006 ppm	0.0056 ppm	0.0010 ppm	0.0154 ppm	0.0004 ppm	0.0000 ppm	11.7230 ppm
Concentration per Run 2	0.0001 ppm	0.0026 ppm	0.0010 ppm	0.0154 ppm	0.0004 ppm	0.0000 ppm	10.8520 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0021 ppm	0.0156 ppm	0.0003 ppm	0.0000 ppm	10.7542 ppm
Concentration RSD	151.4 %	96.1 %	46.3 %	0.8 %	4.0 %	205.0 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0335 ppm	3.0956 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0372 ppm	3.2417 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0335 ppm	3.0367 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0298 ppm	3.0084 ppm	0.0001 ppm
Concentration RSD	40.3 %	71.7 %	125.8 %	40.5 %	11.0 %	4.1 %	70.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	7.4056 ppm	0.2702 ppm	0.0004 ppm	24.2302 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	7.3936 ppm	0.2848 ppm	0.0005 ppm	25.5578 ppm	0.0007 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 2	7.3857 ppm	0.2642 ppm	0.0005 ppm	23.6845 ppm	0.0009 ppm	-0.0005 ppm	-0.0012 ppm
Concentration per Run 3	7.4376 ppm	0.2616 ppm	0.0003 ppm	23.4483 ppm	0.0010 ppm	0.0007 ppm	0.0009 ppm
Concentration RSD	0.4 %	4.7 %	27.6 %	4.8 %	17.6 %	3,975.1 %	3,223.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	5.4011 ppm	0.0001 ppm	0.1019 ppm	0.0002 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 1	0.0018 ppm	5.4373 ppm	0.0001 ppm	0.1075 ppm	0.0000 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0033 ppm	5.3896 ppm	0.0004 ppm	0.0997 ppm	0.0001 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 3	-0.0007 ppm	5.3765 ppm	-0.0002 ppm	0.0985 ppm	0.0004 ppm	-0.0025 ppm	0.0002 ppm
Concentration RSD	136.4 %	0.6 %	317.6 %	4.8 %	144.1 %	63.6 %	30.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	101.9182 %	98.4425 %	98.0136 %	99.9204 %	98.0362 %	99.7369 %
Concentration per Run 1	0.0003 ppm	98.3207 %	99.2163 %	98.3222 %	95.3625 %	97.5605 %	100.3486 %
Concentration per Run 2	0.0003 ppm	104.2899 %	98.3702 %	97.8027 %	102.1495 %	98.1031 %	99.6877 %
Concentration per Run 3	0.0004 ppm	103.1441 %	97.7408 %	97.9158 %	102.2493 %	98.4448 %	99.1742 %
Concentration RSD	15.9 %	3.1 %	0.8 %	0.3 %	4.0 %	0.5 %	0.6 %

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LabBook: WG2038397_03102025T5.imexp

Sample: CCV
Analysis started at: 3/10/2025 1:19:25 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5025 ppm	0.4781 ppm	0.4942 ppm	0.4920 ppm	0.4604 ppm	0.4816 ppm	0.4946 ppm
Concentration per Run 1	0.5035 ppm	0.4793 ppm	0.4922 ppm	0.4899 ppm	0.4590 ppm	0.4805 ppm	0.4925 ppm
Concentration per Run 2	0.5027 ppm	0.4740 ppm	0.4952 ppm	0.4919 ppm	0.4607 ppm	0.4824 ppm	0.4973 ppm
Concentration per Run 3	0.5014 ppm	0.4811 ppm	0.4951 ppm	0.4943 ppm	0.4616 ppm	0.4818 ppm	0.4940 ppm
Recovery Percentage 1	100.504 %	95.630 %	98.831 %	98.407 %	92.087 %	96.316 %	98.919 %
Concentration RSD	0.2 %	0.8 %	0.4 %	0.4 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5007 ppm	0.5145 ppm	0.4935 ppm	0.4872 ppm	0.4967 ppm	5.0161 ppm	0.4762 ppm
Concentration per Run 1	0.4990 ppm	0.5138 ppm	0.4942 ppm	0.4881 ppm	0.4952 ppm	5.0163 ppm	0.4753 ppm
Concentration per Run 2	0.4998 ppm	0.5136 ppm	0.4937 ppm	0.4865 ppm	0.4973 ppm	5.0170 ppm	0.4779 ppm
Concentration per Run 3	0.5032 ppm	0.5161 ppm	0.4928 ppm	0.4869 ppm	0.4975 ppm	5.0150 ppm	0.4753 ppm
Recovery Percentage 1	100.131 %	102.902 %	98.707 %	97.433 %	99.332 %	100.322 %	95.234 %
Concentration RSD	0.4 %	0.3 %	0.1 %	0.2 %	0.2 %	0.0 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5118 ppm	0.4773 ppm	0.4956 ppm	9.5749 ppm	0.5127 ppm	0.5122 ppm	0.5146 ppm
Concentration per Run 1	0.5146 ppm	0.4763 ppm	0.4918 ppm	9.5898 ppm	0.5114 ppm	0.5104 ppm	0.5128 ppm
Concentration per Run 2	0.5106 ppm	0.4778 ppm	0.4957 ppm	9.5602 ppm	0.5123 ppm	0.5128 ppm	0.5152 ppm
Concentration per Run 3	0.5101 ppm	0.4777 ppm	0.4992 ppm	9.5745 ppm	0.5143 ppm	0.5132 ppm	0.5157 ppm
Recovery Percentage 1	102.351 %	95.454 %	99.116 %	95.749 %	102.536 %	102.431 %	102.910 %
Concentration RSD	0.5 %	0.2 %	0.8 %	0.2 %	0.3 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4968 ppm	5.6841 ppm	0.5239 ppm	0.4863 ppm	0.5006 ppm	0.5147 ppm	0.4913 ppm
Concentration per Run 1	0.4962 ppm	5.6676 ppm	0.5229 ppm	0.4857 ppm	0.5007 ppm	0.5133 ppm	0.4911 ppm
Concentration per Run 2	0.4958 ppm	5.6843 ppm	0.5240 ppm	0.4866 ppm	0.5008 ppm	0.5151 ppm	0.4919 ppm
Concentration per Run 3	0.4986 ppm	5.7003 ppm	0.5249 ppm	0.4866 ppm	0.5004 ppm	0.5159 ppm	0.4909 ppm
Recovery Percentage 1	99.370 %	108.268 %	104.790 %	97.262 %	100.126 %	102.949 %	98.257 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.1 %	0.0 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5106 ppm	102.5015 %	98.0786 %	97.6912 %	104.1262 %	98.4103 %	100.1170 %
Concentration per Run 1	0.5087 ppm	102.3521 %	97.9751 %	97.8492 %	103.8748 %	98.8090 %	99.9138 %
Concentration per Run 2	0.5097 ppm	102.6752 %	98.3440 %	97.7717 %	104.1735 %	98.4473 %	100.2351 %
Concentration per Run 3	0.5133 ppm	102.4772 %	97.9167 %	97.4527 %	104.3302 %	97.9746 %	100.2021 %
Recovery Percentage 1	102.116 %						
Concentration RSD	0.5 %	0.2 %	0.2 %	0.2 %	0.2 %	0.4 %	0.2 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCB
Analysis started at: 3/10/2025 1:25:31 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0021 ppm	0.0002 ppm	0.0010 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	-0.0001 ppm	-0.0097 ppm	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 2	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0002 ppm	-0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0027 ppm	0.0005 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm	0.0013 ppm
Recovery Percentage 1	-0.557 %	-2.124 %	3.658 %	3.271 %	2.899 %	3.718 %	-0.283 %
Concentration RSD	321.3 %	314.4 %	134.9 %	23.5 %	31.2 %	13.2 %	538.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0024 ppm	0.0174 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0016 ppm	0.0268 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0037 ppm	0.0457 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0020 ppm	-0.0203 ppm	0.0007 ppm
Recovery Percentage 1	1.049 %	0.669 %	-2.184 %	-0.691 %	4.833 %	0.696 %	-0.587 %
Concentration RSD	101.5 %	82.4 %	42.4 %	220.0 %	46.4 %	195.3 %	1,450.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0010 ppm	0.0003 ppm	0.0005 ppm	0.0049 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0004 ppm	0.0006 ppm	0.0104 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 2	-0.0017 ppm	0.0002 ppm	0.0005 ppm	0.0018 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 3	-0.0008 ppm	0.0004 ppm	0.0004 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm
Recovery Percentage 1	-0.981 %	3.469 %	0.996 %	0.243 %	0.435 %	2.905 %	0.259 %
Concentration RSD	63.1 %	27.8 %	24.5 %	99.5 %	113.2 %	127.7 %	373.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0019 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0017 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0011 ppm	0.0027 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	-0.0014 ppm	0.0014 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-0.144 %	0.390 %	0.072 %	1.899 %	2.162 %	-1.946 %	1.276 %
Concentration RSD	8,853.6 %	35.3 %	583.2 %	67.1 %	130.0 %	116.6 %	59.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	102.2100 %	98.6519 %	99.0265 %	101.6455 %	99.0670 %	99.7091 %
Concentration per Run 1	0.0003 ppm	100.3043 %	98.2355 %	99.1806 %	99.3944 %	99.2685 %	99.5186 %
Concentration per Run 2	0.0016 ppm	103.8091 %	99.1167 %	99.1900 %	102.8309 %	99.2206 %	100.0786 %
Concentration per Run 3	0.0007 ppm	102.5167 %	98.6037 %	98.7088 %	102.7113 %	98.7120 %	99.5301 %
Recovery Percentage 1	16.859 %						
Concentration RSD	78.2 %	1.7 %	0.4 %	0.3 %	1.9 %	0.3 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511503-07 WG2036987
Analysis started at: 3/10/2025 1:39:23 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0113 ppm	0.0007 ppm	0.0169 ppm	0.0259 ppm	0.0000 ppm	31.3593 ppm
Concentration per Run 1	0.0001 ppm	0.0164 ppm	0.0009 ppm	0.0170 ppm	0.0263 ppm	0.0000 ppm	32.0178 ppm
Concentration per Run 2	0.0007 ppm	0.0059 ppm	0.0020 ppm	0.0165 ppm	0.0256 ppm	0.0000 ppm	31.0426 ppm
Concentration per Run 3	0.0000 ppm	0.0115 ppm	-0.0010 ppm	0.0170 ppm	0.0256 ppm	0.0000 ppm	31.0176 ppm
Concentration RSD	147.9 %	47.0 %	232.6 %	1.8 %	1.6 %	308.3 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0203 ppm	0.4950 ppm	2.4923 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0201 ppm	0.5063 ppm	2.5420 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0205 ppm	0.4885 ppm	2.4563 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0202 ppm	0.4901 ppm	2.4786 ppm	0.0005 ppm
Concentration RSD	5.2 %	39.2 %	139.0 %	1.0 %	2.0 %	1.8 %	31.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.1862 ppm	0.1639 ppm	0.0003 ppm	51.3257 ppm	0.0013 ppm	0.0017 ppm	-0.0002 ppm
Concentration per Run 1	4.1930 ppm	0.1678 ppm	0.0004 ppm	52.4382 ppm	0.0011 ppm	0.0020 ppm	-0.0015 ppm
Concentration per Run 2	4.1751 ppm	0.1619 ppm	0.0002 ppm	50.8053 ppm	0.0013 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	4.1906 ppm	0.1621 ppm	0.0002 ppm	50.7336 ppm	0.0013 ppm	0.0023 ppm	0.0005 ppm
Concentration RSD	0.2 %	2.1 %	36.9 %	1.9 %	7.5 %	45.3 %	565.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	4.2781 ppm	-0.0002 ppm	0.1948 ppm	0.0003 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 1	-0.0020 ppm	4.2849 ppm	-0.0004 ppm	0.1989 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0018 ppm	4.2817 ppm	-0.0001 ppm	0.1929 ppm	0.0000 ppm	-0.0014 ppm	0.0002 ppm
Concentration per Run 3	0.0016 ppm	4.2677 ppm	-0.0002 ppm	0.1927 ppm	0.0005 ppm	-0.0027 ppm	0.0002 ppm
Concentration RSD	488.2 %	0.2 %	60.8 %	1.8 %	80.0 %	77.7 %	25.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0215 ppm	99.8742 %	97.5412 %	96.8515 %	101.0990 %	96.0506 %	98.7729 %
Concentration per Run 1	0.0215 ppm	97.6405 %	96.9921 %	96.8230 %	99.1756 %	96.0739 %	98.4581 %
Concentration per Run 2	0.0215 ppm	100.5481 %	97.9439 %	96.7355 %	101.8167 %	95.9339 %	99.0020 %
Concentration per Run 3	0.0213 ppm	101.4339 %	97.6875 %	96.9961 %	102.3046 %	96.1441 %	98.8585 %
Concentration RSD	0.4 %	2.0 %	0.5 %	0.1 %	1.7 %	0.1 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511509-01 WG2036987
Analysis started at: 3/10/2025 1:45:40 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0208 ppm	-0.0005 ppm	0.6867 ppm	0.0871 ppm	0.0000 ppm	35.3607 ppm
Concentration per Run 1	0.0001 ppm	0.0203 ppm	-0.0012 ppm	0.6860 ppm	0.0905 ppm	0.0000 ppm	36.8594 ppm
Concentration per Run 2	0.0000 ppm	0.0204 ppm	-0.0005 ppm	0.7012 ppm	0.0864 ppm	0.0000 ppm	35.0224 ppm
Concentration per Run 3	0.0004 ppm	0.0217 ppm	0.0001 ppm	0.6728 ppm	0.0844 ppm	0.0000 ppm	34.2003 ppm
Concentration RSD	128.7 %	3.8 %	123.1 %	2.1 %	3.5 %	140.3 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0029 ppm	0.0003 ppm	0.0006 ppm	0.6681 ppm	2.2309 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0030 ppm	0.0003 ppm	0.0006 ppm	0.6917 ppm	2.3147 ppm	0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.0030 ppm	0.0005 ppm	0.0007 ppm	0.6639 ppm	2.1982 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	0.0027 ppm	0.0001 ppm	0.0005 ppm	0.6488 ppm	2.1797 ppm	0.0009 ppm
Concentration RSD	13.9 %	5.3 %	65.9 %	19.3 %	3.3 %	3.3 %	31.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.9484 ppm	0.0731 ppm	0.0000 ppm	52.8336 ppm	0.0047 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	1.9472 ppm	0.0759 ppm	-0.0001 ppm	55.0053 ppm	0.0046 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	1.9528 ppm	0.0723 ppm	0.0002 ppm	52.2522 ppm	0.0046 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 3	1.9452 ppm	0.0709 ppm	-0.0002 ppm	51.2433 ppm	0.0049 ppm	0.0007 ppm	-0.0004 ppm
Concentration RSD	0.2 %	3.6 %	1,500.4 %	3.7 %	3.3 %	140.5 %	894.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	3.8900 ppm	-0.0004 ppm	0.0725 ppm	0.0005 ppm	-0.0008 ppm	0.0011 ppm
Concentration per Run 1	-0.0027 ppm	3.8897 ppm	0.0001 ppm	0.0754 ppm	0.0006 ppm	-0.0010 ppm	0.0010 ppm
Concentration per Run 2	0.0007 ppm	3.9687 ppm	-0.0006 ppm	0.0718 ppm	0.0005 ppm	-0.0011 ppm	0.0010 ppm
Concentration per Run 3	0.0035 ppm	3.8115 ppm	-0.0006 ppm	0.0702 ppm	0.0005 ppm	-0.0004 ppm	0.0013 ppm
Concentration RSD	654.2 %	2.0 %	103.1 %	3.7 %	8.2 %	47.6 %	15.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0277 ppm	100.7808 %	96.6580 %	98.8087 %	99.7344 %	97.0857 %	98.8505 %
Concentration per Run 1	0.0278 ppm	97.6856 %	96.5642 %	98.6403 %	96.2316 %	97.0841 %	98.7266 %
Concentration per Run 2	0.0282 ppm	101.3882 %	96.5311 %	97.1519 %	100.3638 %	95.2533 %	98.6500 %
Concentration per Run 3	0.0272 ppm	103.2687 %	96.8788 %	100.6340 %	102.6077 %	98.9198 %	99.1748 %
Concentration RSD	1.8 %	2.8 %	0.2 %	1.8 %	3.2 %	1.9 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511509-02 WG2036987
Analysis started at: 3/10/2025 1:51:57 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0689 ppm	-0.0004 ppm	0.0073 ppm	0.0156 ppm	0.0000 ppm	5.8323 ppm
Concentration per Run 1	0.0002 ppm	0.0740 ppm	0.0000 ppm	0.0070 ppm	0.0163 ppm	0.0000 ppm	6.1198 ppm
Concentration per Run 2	-0.0001 ppm	0.0672 ppm	-0.0008 ppm	0.0070 ppm	0.0155 ppm	0.0000 ppm	5.8211 ppm
Concentration per Run 3	0.0000 ppm	0.0655 ppm	-0.0005 ppm	0.0080 ppm	0.0149 ppm	0.0000 ppm	5.5559 ppm
Concentration RSD	1,197.8 %	6.6 %	87.4 %	7.2 %	4.7 %	129.6 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.2759 ppm	1.9687 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.2898 ppm	2.0616 ppm	0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.2738 ppm	1.9794 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.2643 ppm	1.8651 ppm	0.0002 ppm
Concentration RSD	62.7 %	49.3 %	511.0 %	45.9 %	4.7 %	5.0 %	79.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.2619 ppm	0.0678 ppm	0.0002 ppm	36.3482 ppm	0.0002 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 1	1.2644 ppm	0.0710 ppm	0.0002 ppm	38.1864 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	1.2569 ppm	0.0672 ppm	0.0002 ppm	36.2126 ppm	0.0004 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 3	1.2645 ppm	0.0651 ppm	0.0002 ppm	34.6457 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm
Concentration RSD	0.3 %	4.4 %	12.2 %	4.9 %	66.1 %	33.0 %	154.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	4.5089 ppm	0.0000 ppm	0.0534 ppm	0.0009 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	4.5018 ppm	0.0001 ppm	0.0563 ppm	0.0008 ppm	-0.0019 ppm	0.0002 ppm
Concentration per Run 2	-0.0006 ppm	4.5053 ppm	0.0000 ppm	0.0530 ppm	0.0011 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	4.5195 ppm	0.0000 ppm	0.0510 ppm	0.0009 ppm	-0.0018 ppm	0.0000 ppm
Concentration RSD	609.8 %	0.2 %	96.2 %	5.0 %	13.7 %	31.3 %	147.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0041 ppm	97.4536 %	97.2094 %	98.4447 %	95.8124 %	97.6363 %	99.6015 %
Concentration per Run 1	0.0040 ppm	93.8804 %	97.1435 %	98.4923 %	91.1198 %	97.6468 %	99.5359 %
Concentration per Run 2	0.0041 ppm	97.9716 %	97.4777 %	98.3809 %	96.1762 %	97.7671 %	99.8141 %
Concentration per Run 3	0.0041 ppm	100.5089 %	97.0070 %	98.4608 %	100.1411 %	97.4950 %	99.4546 %
Concentration RSD	1.6 %	3.4 %	0.2 %	0.1 %	4.7 %	0.1 %	0.2 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: L2511529-01 WG2036987
Analysis started at: 3/10/2025 1:58:16 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.3296 ppm	-0.0001 ppm	0.0086 ppm	0.0323 ppm	0.0000 ppm	17.5211 ppm
Concentration per Run 1	0.0008 ppm	0.3565 ppm	0.0004 ppm	0.0084 ppm	0.0346 ppm	-0.0001 ppm	18.7873 ppm
Concentration per Run 2	0.0006 ppm	0.3226 ppm	-0.0008 ppm	0.0088 ppm	0.0320 ppm	0.0000 ppm	17.2547 ppm
Concentration per Run 3	0.0006 ppm	0.3096 ppm	0.0001 ppm	0.0087 ppm	0.0305 ppm	0.0000 ppm	16.5214 ppm
Concentration RSD	18.7 %	7.3 %	528.3 %	2.3 %	6.3 %	62.8 %	6.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0014 ppm	0.0062 ppm	0.0018 ppm	4.9478 ppm	1.0180 ppm	0.0028 ppm
Concentration per Run 1	-0.0002 ppm	0.0014 ppm	0.0064 ppm	0.0017 ppm	5.2898 ppm	1.0867 ppm	0.0030 ppm
Concentration per Run 2	-0.0001 ppm	0.0013 ppm	0.0064 ppm	0.0019 ppm	4.8795 ppm	1.0172 ppm	0.0039 ppm
Concentration per Run 3	-0.0002 ppm	0.0015 ppm	0.0060 ppm	0.0018 ppm	4.6740 ppm	0.9502 ppm	0.0016 ppm
Concentration RSD	13.0 %	6.1 %	3.8 %	5.3 %	6.3 %	6.7 %	39.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.8874 ppm	0.0756 ppm	0.0010 ppm	8.1753 ppm	0.0045 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 1	5.8932 ppm	0.0809 ppm	0.0011 ppm	8.7543 ppm	0.0045 ppm	0.0007 ppm	0.0013 ppm
Concentration per Run 2	5.8956 ppm	0.0746 ppm	0.0009 ppm	8.0459 ppm	0.0047 ppm	0.0014 ppm	-0.0008 ppm
Concentration per Run 3	5.8735 ppm	0.0712 ppm	0.0009 ppm	7.7256 ppm	0.0043 ppm	0.0016 ppm	0.0002 ppm
Concentration RSD	0.2 %	6.5 %	8.9 %	6.4 %	4.6 %	37.2 %	431.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	10.5478 ppm	-0.0005 ppm	0.0941 ppm	0.0129 ppm	-0.0009 ppm	0.0012 ppm
Concentration per Run 1	0.0013 ppm	10.5087 ppm	-0.0006 ppm	0.1007 ppm	0.0129 ppm	-0.0003 ppm	0.0013 ppm
Concentration per Run 2	0.0023 ppm	10.5621 ppm	0.0000 ppm	0.0926 ppm	0.0131 ppm	-0.0009 ppm	0.0013 ppm
Concentration per Run 3	0.0003 ppm	10.5725 ppm	-0.0009 ppm	0.0891 ppm	0.0127 ppm	-0.0013 ppm	0.0010 ppm
Concentration RSD	76.3 %	0.3 %	96.3 %	6.3 %	1.5 %	58.5 %	15.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0032 ppm	95.6203 %	98.6638 %	99.7863 %	94.3140 %	98.9516 %	100.4183 %
Concentration per Run 1	0.0032 ppm	89.5376 %	98.8132 %	100.0736 %	88.0759 %	99.3812 %	100.3978 %
Concentration per Run 2	0.0032 ppm	97.2313 %	98.5419 %	99.7561 %	95.5180 %	98.8381 %	100.3070 %
Concentration per Run 3	0.0032 ppm	100.0921 %	98.6363 %	99.5292 %	99.3482 %	98.6357 %	100.5503 %
Concentration RSD	0.5 %	5.7 %	0.1 %	0.3 %	6.1 %	0.4 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511533-01 WG2036987
Analysis started at: 3/10/2025 2:04:34 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0234 ppm	-0.0009 ppm	0.0021 ppm	0.0002 ppm	0.0000 ppm	8.1176 ppm
Concentration per Run 1	0.0002 ppm	0.0215 ppm	0.0004 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	8.7174 ppm
Concentration per Run 2	-0.0002 ppm	0.0242 ppm	-0.0017 ppm	0.0024 ppm	0.0002 ppm	0.0000 ppm	7.8780 ppm
Concentration per Run 3	0.0002 ppm	0.0244 ppm	-0.0013 ppm	0.0017 ppm	0.0002 ppm	0.0000 ppm	7.7576 ppm
Concentration RSD	273.8 %	6.9 %	128.0 %	18.2 %	13.4 %	86.4 %	6.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0070 ppm	1.3393 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0073 ppm	1.4475 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0075 ppm	1.3041 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0060 ppm	1.2664 ppm	-0.0010 ppm
Concentration RSD	55.5 %	828.7 %	214.5 %	467.9 %	11.7 %	7.1 %	13,642.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.9896 ppm	0.0002 ppm	0.0000 ppm	15.8902 ppm	0.0002 ppm	0.0006 ppm	-0.0003 ppm
Concentration per Run 1	7.0037 ppm	-0.0002 ppm	0.0001 ppm	17.0620 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 2	6.9998 ppm	0.0002 ppm	0.0000 ppm	15.4186 ppm	0.0003 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 3	6.9653 ppm	0.0004 ppm	0.0000 ppm	15.1899 ppm	0.0002 ppm	0.0010 ppm	-0.0003 ppm
Concentration RSD	0.3 %	180.1 %	331.6 %	6.4 %	26.6 %	64.6 %	154.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0105 ppm	-0.0008 ppm	0.0023 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	0.0105 ppm	-0.0010 ppm	0.0024 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0031 ppm	0.0108 ppm	-0.0006 ppm	0.0023 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0019 ppm	0.0101 ppm	-0.0008 ppm	0.0023 ppm	0.0001 ppm	-0.0010 ppm	-0.0001 ppm
Concentration RSD	949.8 %	3.2 %	21.2 %	2.5 %	357.3 %	93.3 %	221.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	97.6244 %	98.2326 %	99.1400 %	95.9778 %	98.8155 %	100.1083 %
Concentration per Run 1	0.0001 ppm	91.5734 %	97.9976 %	99.5667 %	89.5576 %	98.9128 %	99.7615 %
Concentration per Run 2	0.0001 ppm	100.9204 %	98.2492 %	98.9894 %	98.7890 %	98.5703 %	100.1068 %
Concentration per Run 3	0.0002 ppm	100.3794 %	98.4511 %	98.8640 %	99.5868 %	98.9635 %	100.4565 %
Concentration RSD	30.1 %	5.4 %	0.2 %	0.4 %	5.8 %	0.2 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511503-06 WG2036987
Analysis started at: 3/10/2025 2:10:55 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0165 ppm	-0.0004 ppm	0.0175 ppm	0.0244 ppm	0.0000 ppm	32.9136 ppm
Concentration per Run 1	0.0002 ppm	0.0046 ppm	0.0010 ppm	0.0174 ppm	0.0235 ppm	0.0000 ppm	31.6768 ppm
Concentration per Run 2	0.0003 ppm	0.0216 ppm	-0.0021 ppm	0.0175 ppm	0.0249 ppm	-0.0001 ppm	33.5351 ppm
Concentration per Run 3	0.0003 ppm	0.0232 ppm	0.0000 ppm	0.0175 ppm	0.0247 ppm	0.0000 ppm	33.5289 ppm
Concentration RSD	28.5 %	62.3 %	386.7 %	0.2 %	3.1 %	60.4 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0009 ppm	1.2360 ppm	2.4097 ppm	-0.0003 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0010 ppm	1.1867 ppm	2.3125 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0008 ppm	1.2659 ppm	2.4500 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm	1.2554 ppm	2.4667 ppm	-0.0003 ppm
Concentration RSD	14.9 %	191.7 %	28.7 %	10.2 %	3.5 %	3.5 %	200.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.4897 ppm	0.4002 ppm	0.0001 ppm	51.2361 ppm	0.0002 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 1	4.5151 ppm	0.3858 ppm	0.0001 ppm	49.4588 ppm	0.0002 ppm	0.0009 ppm	-0.0008 ppm
Concentration per Run 2	4.4687 ppm	0.4073 ppm	0.0002 ppm	52.1012 ppm	0.0003 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 3	4.4852 ppm	0.4075 ppm	0.0000 ppm	52.1483 ppm	0.0000 ppm	0.0013 ppm	-0.0007 ppm
Concentration RSD	0.5 %	3.1 %	134.3 %	3.0 %	89.1 %	70.8 %	4,008.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	4.4967 ppm	-0.0005 ppm	0.2030 ppm	0.0004 ppm	-0.0011 ppm	0.0006 ppm
Concentration per Run 1	-0.0006 ppm	4.5032 ppm	-0.0002 ppm	0.1956 ppm	0.0007 ppm	-0.0012 ppm	0.0009 ppm
Concentration per Run 2	0.0003 ppm	4.5176 ppm	-0.0012 ppm	0.2067 ppm	0.0003 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	4.4694 ppm	-0.0003 ppm	0.2069 ppm	0.0003 ppm	-0.0009 ppm	0.0005 ppm
Concentration RSD	647.5 %	0.6 %	98.5 %	3.2 %	52.3 %	14.9 %	43.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0099 ppm	105.9178 %	96.8957 %	98.0103 %	104.7241 %	95.9383 %	99.1872 %
Concentration per Run 1	0.0099 ppm	111.6768 %	96.1707 %	97.7741 %	108.5123 %	95.9644 %	98.4520 %
Concentration per Run 2	0.0099 ppm	103.2050 %	97.4345 %	97.8586 %	102.8933 %	95.5532 %	99.6488 %
Concentration per Run 3	0.0099 ppm	102.8715 %	97.0818 %	98.3983 %	102.7668 %	96.2973 %	99.4609 %
Concentration RSD	0.3 %	4.7 %	0.7 %	0.3 %	3.1 %	0.4 %	0.6 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: WG2036987-7 WG2036987
Analysis started at: 3/10/2025 2:17:13 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0534 ppm	2.0653 ppm	0.1224 ppm	1.0039 ppm	1.9950 ppm	0.0524 ppm	42.7741 ppm
Concentration per Run 1	0.0534 ppm	2.1255 ppm	0.1232 ppm	1.0040 ppm	2.0530 ppm	0.0540 ppm	44.0072 ppm
Concentration per Run 2	0.0534 ppm	2.0386 ppm	0.1220 ppm	1.0070 ppm	1.9670 ppm	0.0516 ppm	42.2181 ppm
Concentration per Run 3	0.0534 ppm	2.0319 ppm	0.1221 ppm	1.0006 ppm	1.9650 ppm	0.0517 ppm	42.0970 ppm
Concentration RSD	0.1 %	2.5 %	0.5 %	0.3 %	2.5 %	2.5 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0553 ppm	0.5233 ppm	0.2085 ppm	0.2671 ppm	2.2994 ppm	12.9280 ppm	0.0001 ppm
Concentration per Run 1	0.0553 ppm	0.5236 ppm	0.2089 ppm	0.2668 ppm	2.3679 ppm	13.2929 ppm	0.0016 ppm
Concentration per Run 2	0.0555 ppm	0.5249 ppm	0.2076 ppm	0.2670 ppm	2.2655 ppm	12.7490 ppm	0.0003 ppm
Concentration per Run 3	0.0552 ppm	0.5213 ppm	0.2089 ppm	0.2674 ppm	2.2648 ppm	12.7420 ppm	-0.0016 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %	0.1 %	2.6 %	2.4 %	1,378.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.3877 ppm	0.9137 ppm	0.9632 ppm	61.5891 ppm	0.5261 ppm	0.5214 ppm	0.5427 ppm
Concentration per Run 1	14.4243 ppm	0.9390 ppm	0.9533 ppm	63.2998 ppm	0.5259 ppm	0.5207 ppm	0.5428 ppm
Concentration per Run 2	14.3718 ppm	0.9004 ppm	0.9664 ppm	60.7771 ppm	0.5272 ppm	0.5234 ppm	0.5429 ppm
Concentration per Run 3	14.3671 ppm	0.9018 ppm	0.9698 ppm	60.6903 ppm	0.5252 ppm	0.5200 ppm	0.5423 ppm
Concentration RSD	0.2 %	2.4 %	0.9 %	2.4 %	0.2 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0764 ppm	5.6863 ppm	1.0100 ppm	1.1852 ppm	0.9952 ppm	0.1165 ppm	0.5266 ppm
Concentration per Run 1	0.0763 ppm	5.6896 ppm	1.0110 ppm	1.2195 ppm	0.9962 ppm	0.1173 ppm	0.5282 ppm
Concentration per Run 2	0.0762 ppm	5.7000 ppm	1.0114 ppm	1.1664 ppm	0.9948 ppm	0.1167 ppm	0.5256 ppm
Concentration per Run 3	0.0767 ppm	5.6694 ppm	1.0075 ppm	1.1697 ppm	0.9944 ppm	0.1156 ppm	0.5258 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	2.5 %	0.1 %	0.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5470 ppm	101.4866 %	95.9965 %	96.9757 %	103.2216 %	96.2289 %	98.3284 %
Concentration per Run 1	0.5471 ppm	100.1895 %	95.7750 %	97.1021 %	100.6738 %	96.2625 %	97.8873 %
Concentration per Run 2	0.5487 ppm	102.2665 %	96.1901 %	96.5845 %	104.4749 %	95.9765 %	98.5549 %
Concentration per Run 3	0.5452 ppm	102.0039 %	96.0243 %	97.2407 %	104.5159 %	96.4476 %	98.5432 %
Concentration RSD	0.3 %	1.1 %	0.2 %	0.4 %	2.1 %	0.2 %	0.4 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2036987-8 WG2036987
Analysis started at: 3/10/2025 2:23:18 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0127 ppm	0.0003 ppm	0.0183 ppm	0.0254 ppm	0.0000 ppm	33.6175 ppm
Concentration per Run 1	0.0003 ppm	0.0144 ppm	-0.0001 ppm	0.0183 ppm	0.0260 ppm	0.0000 ppm	34.0098 ppm
Concentration per Run 2	0.0002 ppm	0.0120 ppm	-0.0002 ppm	0.0183 ppm	0.0253 ppm	0.0000 ppm	33.4788 ppm
Concentration per Run 3	-0.0004 ppm	0.0118 ppm	0.0012 ppm	0.0182 ppm	0.0251 ppm	0.0000 ppm	33.3641 ppm
Concentration RSD	718.9 %	11.1 %	253.3 %	0.4 %	1.8 %	396.5 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0008 ppm	1.2691 ppm	2.4994 ppm	-0.0004 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	1.2861 ppm	2.5558 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	1.2615 ppm	2.4562 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0006 ppm	1.2595 ppm	2.4862 ppm	-0.0011 ppm
Concentration RSD	16.2 %	52.5 %	94.7 %	27.5 %	1.2 %	2.0 %	142.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.4384 ppm	0.4090 ppm	0.0015 ppm	52.2019 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	4.4254 ppm	0.4144 ppm	0.0019 ppm	52.9982 ppm	0.0001 ppm	0.0014 ppm	-0.0004 ppm
Concentration per Run 2	4.4591 ppm	0.4078 ppm	0.0014 ppm	51.9067 ppm	0.0001 ppm	0.0004 ppm	-0.0012 ppm
Concentration per Run 3	4.4307 ppm	0.4049 ppm	0.0012 ppm	51.7009 ppm	0.0003 ppm	0.0005 ppm	0.0017 ppm
Concentration RSD	0.4 %	1.2 %	23.1 %	1.3 %	87.8 %	71.2 %	2,520.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	4.4812 ppm	0.0006 ppm	0.2082 ppm	0.0006 ppm	-0.0017 ppm	0.0005 ppm
Concentration per Run 1	0.0011 ppm	4.4988 ppm	0.0014 ppm	0.2112 ppm	0.0006 ppm	-0.0022 ppm	0.0005 ppm
Concentration per Run 2	-0.0015 ppm	4.4750 ppm	0.0003 ppm	0.2071 ppm	0.0005 ppm	-0.0017 ppm	0.0004 ppm
Concentration per Run 3	0.0014 ppm	4.4700 ppm	0.0001 ppm	0.2064 ppm	0.0008 ppm	-0.0012 ppm	0.0007 ppm
Concentration RSD	467.3 %	0.3 %	108.8 %	1.3 %	19.4 %	29.8 %	29.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0097 ppm	102.2730 %	96.8146 %	97.7592 %	102.4209 %	95.6772 %	99.7194 %
Concentration per Run 1	0.0097 ppm	101.6127 %	97.3552 %	97.7163 %	101.2089 %	95.4880 %	99.9673 %
Concentration per Run 2	0.0097 ppm	104.0810 %	96.2928 %	97.7832 %	103.3386 %	95.9851 %	99.2017 %
Concentration per Run 3	0.0097 ppm	101.1252 %	96.7959 %	97.7780 %	102.7153 %	95.5584 %	99.9890 %
Concentration RSD	0.3 %	1.5 %	0.5 %	0.0 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: WG2036987-9 WG2036987
Analysis started at: 3/10/2025 2:29:36 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0317 ppm	2.0763 ppm	0.1251 ppm	1.0048 ppm	2.0122 ppm	0.0533 ppm	44.8012 ppm
Concentration per Run 1	0.0276 ppm	2.1578 ppm	0.1246 ppm	1.0012 ppm	2.0910 ppm	0.0555 ppm	46.5636 ppm
Concentration per Run 2	0.0280 ppm	2.0684 ppm	0.1258 ppm	1.0065 ppm	2.0030 ppm	0.0530 ppm	44.5507 ppm
Concentration per Run 3	0.0395 ppm	2.0025 ppm	0.1250 ppm	1.0066 ppm	1.9427 ppm	0.0515 ppm	43.2893 ppm
Concentration RSD	21.3 %	3.8 %	0.5 %	0.3 %	3.7 %	3.8 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0535 ppm	0.4930 ppm	0.1973 ppm	0.2504 ppm	2.3643 ppm	13.8970 ppm	-0.0003 ppm
Concentration per Run 1	0.0534 ppm	0.4920 ppm	0.1982 ppm	0.2505 ppm	2.4524 ppm	14.5105 ppm	-0.0004 ppm
Concentration per Run 2	0.0537 ppm	0.4944 ppm	0.1971 ppm	0.2503 ppm	2.3561 ppm	13.8114 ppm	-0.0003 ppm
Concentration per Run 3	0.0535 ppm	0.4927 ppm	0.1966 ppm	0.2505 ppm	2.2844 ppm	13.3692 ppm	-0.0003 ppm
Concentration RSD	0.3 %	0.2 %	0.4 %	0.1 %	3.6 %	4.1 %	16.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.2658 ppm	0.9393 ppm	0.9713 ppm	64.3643 ppm	0.4979 ppm	0.5499 ppm	0.4929 ppm
Concentration per Run 1	14.3009 ppm	0.9775 ppm	0.9589 ppm	67.1577 ppm	0.4969 ppm	0.5472 ppm	0.4880 ppm
Concentration per Run 2	14.2496 ppm	0.9349 ppm	0.9742 ppm	63.9604 ppm	0.4992 ppm	0.5510 ppm	0.4918 ppm
Concentration per Run 3	14.2468 ppm	0.9054 ppm	0.9808 ppm	61.9747 ppm	0.4976 ppm	0.5514 ppm	0.4989 ppm
Concentration RSD	0.2 %	3.9 %	1.2 %	4.1 %	0.2 %	0.4 %	1.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1269 ppm	5.1657 ppm	1.0155 ppm	1.2739 ppm	0.9923 ppm	0.1218 ppm	0.4951 ppm
Concentration per Run 1	0.1286 ppm	5.1543 ppm	1.0133 ppm	1.3269 ppm	0.9934 ppm	0.1207 ppm	0.4962 ppm
Concentration per Run 2	0.1271 ppm	5.1779 ppm	1.0182 ppm	1.2672 ppm	0.9917 ppm	0.1224 ppm	0.4941 ppm
Concentration per Run 3	0.1249 ppm	5.1648 ppm	1.0149 ppm	1.2277 ppm	0.9918 ppm	0.1224 ppm	0.4948 ppm
Concentration RSD	1.5 %	0.2 %	0.2 %	3.9 %	0.1 %	0.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5207 ppm	94.4414 %	94.4437 %	96.6833 %	96.4088 %	95.5967 %	97.8988 %
Concentration per Run 1	0.5192 ppm	91.3883 %	94.0449 %	96.6008 %	92.4523 %	95.8209 %	97.6446 %
Concentration per Run 2	0.5226 ppm	95.7127 %	94.5943 %	96.4734 %	97.3755 %	95.3463 %	98.0432 %
Concentration per Run 3	0.5202 ppm	96.2233 %	94.6919 %	96.9755 %	99.3986 %	95.6227 %	98.0086 %
Concentration RSD	0.3 %	2.8 %	0.4 %	0.3 %	3.7 %	0.2 %	0.2 %

LabBook: WG2038397_03102025T5.imexp

Sample: WG2036987-10D5 WG2036987
Analysis started at: 3/10/2025 2:35:42 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0020 ppm	0.0001 ppm	0.0054 ppm	0.0049 ppm	0.0000 ppm	6.4904 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0054 ppm	0.0047 ppm	0.0000 ppm	6.3404 ppm
Concentration per Run 2	-0.0002 ppm	0.0037 ppm	0.0008 ppm	0.0056 ppm	0.0048 ppm	0.0000 ppm	6.5516 ppm
Concentration per Run 3	0.0004 ppm	0.0023 ppm	-0.0003 ppm	0.0053 ppm	0.0051 ppm	0.0000 ppm	6.5791 ppm
Concentration RSD	258.5 %	99.7 %	438.1 %	3.1 %	3.4 %	185.5 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.2544 ppm	0.4889 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.2480 ppm	0.4769 ppm	-0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.2572 ppm	0.5053 ppm	0.0011 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.2579 ppm	0.4844 ppm	0.0001 ppm
Concentration RSD	100.2 %	137.7 %	2,183.4 %	604.4 %	2.2 %	3.0 %	1,851.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.9189 ppm	0.0807 ppm	0.0017 ppm	9.9171 ppm	0.0001 ppm	0.0007 ppm	0.0045 ppm
Concentration per Run 1	0.9186 ppm	0.0790 ppm	0.0020 ppm	9.7039 ppm	0.0001 ppm	0.0011 ppm	0.0053 ppm
Concentration per Run 2	0.9199 ppm	0.0815 ppm	0.0015 ppm	10.0194 ppm	0.0001 ppm	0.0001 ppm	0.0042 ppm
Concentration per Run 3	0.9183 ppm	0.0816 ppm	0.0016 ppm	10.0280 ppm	0.0002 ppm	0.0008 ppm	0.0040 ppm
Concentration RSD	0.1 %	1.8 %	15.8 %	1.9 %	43.5 %	71.3 %	15.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	0.8863 ppm	0.0008 ppm	0.0414 ppm	0.0006 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.8903 ppm	0.0011 ppm	0.0406 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.8879 ppm	0.0008 ppm	0.0418 ppm	0.0008 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0024 ppm	0.8807 ppm	0.0004 ppm	0.0418 ppm	0.0004 ppm	-0.0014 ppm	0.0000 ppm
Concentration RSD	180.0 %	0.6 %	47.1 %	1.8 %	39.0 %	116.5 %	122.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0020 ppm	103.9639 %	97.2587 %	100.0577 %	106.2672 %	99.2722 %	101.4660 %
Concentration per Run 1	0.0021 ppm	107.8070 %	97.1258 %	99.6342 %	108.1085 %	98.8746 %	101.2466 %
Concentration per Run 2	0.0021 ppm	103.0899 %	97.2834 %	99.3792 %	105.8830 %	98.8676 %	101.4094 %
Concentration per Run 3	0.0020 ppm	100.9949 %	97.3668 %	101.1599 %	104.8100 %	100.0745 %	101.7420 %
Concentration RSD	1.7 %	3.4 %	0.1 %	1.0 %	1.6 %	0.7 %	0.2 %

ICP DataTrace 5

3/10/2025 3:29:05 PM

LabBook: WG2038397_03102025T5.imexp

Sample: CCV
Analysis started at: 3/10/2025 2:42:01 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4994 ppm	0.4739 ppm	0.4884 ppm	0.4905 ppm	0.4650 ppm	0.4979 ppm	0.4949 ppm
Concentration per Run 1	0.4997 ppm	0.4798 ppm	0.4903 ppm	0.4920 ppm	0.4765 ppm	0.5101 ppm	0.5096 ppm
Concentration per Run 2	0.4991 ppm	0.4760 ppm	0.4865 ppm	0.4894 ppm	0.4613 ppm	0.4945 ppm	0.4912 ppm
Concentration per Run 3	0.4993 ppm	0.4661 ppm	0.4885 ppm	0.4902 ppm	0.4570 ppm	0.4891 ppm	0.4839 ppm
Recovery Percentage 1	99.875 %	94.789 %	97.685 %	98.107 %	92.991 %	99.584 %	98.982 %
Concentration RSD	0.1 %	1.5 %	0.4 %	0.3 %	2.2 %	2.2 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5040 ppm	0.5022 ppm	0.4934 ppm	0.4846 ppm	0.5053 ppm	5.0976 ppm	0.4917 ppm
Concentration per Run 1	0.5068 ppm	0.5046 ppm	0.4933 ppm	0.4844 ppm	0.5170 ppm	5.2168 ppm	0.5030 ppm
Concentration per Run 2	0.5018 ppm	0.4999 ppm	0.4931 ppm	0.4843 ppm	0.5018 ppm	5.0513 ppm	0.4892 ppm
Concentration per Run 3	0.5033 ppm	0.5021 ppm	0.4939 ppm	0.4850 ppm	0.4971 ppm	5.0247 ppm	0.4828 ppm
Recovery Percentage 1	100.791 %	100.442 %	98.688 %	96.913 %	101.063 %	101.952 %	98.336 %
Concentration RSD	0.5 %	0.5 %	0.1 %	0.1 %	2.1 %	2.0 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4983 ppm	0.4848 ppm	0.5010 ppm	9.5029 ppm	0.5070 ppm	0.5216 ppm	0.5140 ppm
Concentration per Run 1	0.4998 ppm	0.4977 ppm	0.5025 ppm	9.7214 ppm	0.5088 ppm	0.5243 ppm	0.5166 ppm
Concentration per Run 2	0.4956 ppm	0.4815 ppm	0.4995 ppm	9.4469 ppm	0.5052 ppm	0.5198 ppm	0.5114 ppm
Concentration per Run 3	0.4996 ppm	0.4752 ppm	0.5011 ppm	9.3404 ppm	0.5071 ppm	0.5206 ppm	0.5140 ppm
Recovery Percentage 1	99.668 %	96.960 %	100.209 %	95.029 %	101.399 %	104.312 %	102.792 %
Concentration RSD	0.5 %	2.4 %	0.3 %	2.1 %	0.4 %	0.5 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5021 ppm	5.6078 ppm	0.5293 ppm	0.5029 ppm	0.4921 ppm	0.5181 ppm	0.4848 ppm
Concentration per Run 1	0.5029 ppm	5.6330 ppm	0.5326 ppm	0.5152 ppm	0.4916 ppm	0.5204 ppm	0.4847 ppm
Concentration per Run 2	0.5004 ppm	5.5818 ppm	0.5252 ppm	0.4997 ppm	0.4924 ppm	0.5156 ppm	0.4848 ppm
Concentration per Run 3	0.5031 ppm	5.6087 ppm	0.5301 ppm	0.4940 ppm	0.4922 ppm	0.5184 ppm	0.4848 ppm
Recovery Percentage 1	100.422 %	106.816 %	105.857 %	100.590 %	98.414 %	103.628 %	96.950 %
Concentration RSD	0.3 %	0.5 %	0.7 %	2.2 %	0.1 %	0.5 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5111 ppm	98.2545 %	96.4652 %	99.1330 %	102.6346 %	98.6232 %	100.7101 %
Concentration per Run 1	0.5136 ppm	96.8027 %	96.5728 %	98.8177 %	100.5495 %	98.1795 %	100.7913 %
Concentration per Run 2	0.5093 ppm	99.3817 %	96.3036 %	99.4559 %	103.0343 %	98.9909 %	100.5911 %
Concentration per Run 3	0.5104 ppm	98.5791 %	96.5194 %	99.1253 %	104.3202 %	98.6992 %	100.7479 %
Recovery Percentage 1	102.223 %						
Concentration RSD	0.4 %	1.3 %	0.1 %	0.3 %	1.9 %	0.4 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCB
Analysis started at: 3/10/2025 2:48:08 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0013 ppm	0.0003 ppm	0.0001 ppm	0.0021 ppm
Concentration per Run 1	0.0001 ppm	0.0084 ppm	0.0024 ppm	0.0016 ppm	0.0004 ppm	0.0002 ppm	-0.0037 ppm
Concentration per Run 2	0.0002 ppm	-0.0069 ppm	-0.0014 ppm	0.0014 ppm	0.0003 ppm	0.0001 ppm	0.0074 ppm
Concentration per Run 3	0.0003 ppm	-0.0004 ppm	-0.0008 ppm	0.0010 ppm	0.0003 ppm	0.0001 ppm	0.0024 ppm
Recovery Percentage 1	2.645 %	0.342 %	1.367 %	4.447 %	3.370 %	2.957 %	2.051 %
Concentration RSD	48.1 %	2,245.6 %	2,952.2 %	22.1 %	25.3 %	31.9 %	272.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0014 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0014 ppm	-0.0094 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0155 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0020 ppm	0.0291 ppm	0.0006 ppm
Recovery Percentage 1	0.060 %	0.025 %	-0.868 %	-2.386 %	2.760 %	0.056 %	3.897 %
Concentration RSD	369.3 %	1,802.6 %	38.4 %	64.2 %	48.1 %	1,715.4 %	112.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0029 ppm	0.0003 ppm	0.0006 ppm	0.0135 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm
Concentration per Run 1	-0.0023 ppm	0.0005 ppm	0.0007 ppm	0.0106 ppm	0.0001 ppm	0.0006 ppm	0.0012 ppm
Concentration per Run 2	-0.0035 ppm	0.0003 ppm	0.0007 ppm	0.0191 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0029 ppm	0.0001 ppm	0.0004 ppm	0.0107 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Recovery Percentage 1	-2.882 %	2.920 %	1.218 %	0.673 %	0.027 %	2.647 %	2.509 %
Concentration RSD	21.4 %	68.3 %	27.6 %	36.3 %	2,490.4 %	130.4 %	47.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.0016 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 1	0.0012 ppm	0.0019 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0022 ppm	0.0012 ppm	0.0004 ppm	0.0003 ppm	0.0003 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	0.0016 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm
Recovery Percentage 1	13.497 %	0.318 %	0.327 %	1.952 %	0.452 %	-4.409 %	-0.175 %
Concentration RSD	60.8 %	22.9 %	201.8 %	47.3 %	443.8 %	59.2 %	94.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	94.6942 %	96.9230 %	100.2521 %	96.2397 %	98.5424 %	99.6380 %
Concentration per Run 1	0.0000 ppm	91.4943 %	96.9961 %	99.9950 %	92.1774 %	98.2738 %	99.7073 %
Concentration per Run 2	0.0002 ppm	95.7320 %	96.7474 %	100.4243 %	97.5642 %	98.9328 %	99.5012 %
Concentration per Run 3	0.0002 ppm	96.8563 %	97.0255 %	100.3369 %	98.9775 %	98.4207 %	99.7055 %
Recovery Percentage 1	2.601 %						
Concentration RSD	62.9 %	3.0 %	0.2 %	0.2 %	3.7 %	0.4 %	0.1 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511585-01 WG2036987
Analysis started at: 3/10/2025 2:56:23 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	6.8039 ppm	0.0007 ppm	0.1443 ppm	0.0571 ppm	0.0000 ppm	8.5695 ppm
Concentration per Run 1	0.0006 ppm	7.0616 ppm	-0.0006 ppm	0.1435 ppm	0.0591 ppm	0.0000 ppm	8.8862 ppm
Concentration per Run 2	0.0003 ppm	6.8668 ppm	0.0006 ppm	0.1449 ppm	0.0577 ppm	0.0000 ppm	8.6356 ppm
Concentration per Run 3	0.0004 ppm	6.4834 ppm	0.0021 ppm	0.1445 ppm	0.0546 ppm	0.0000 ppm	8.1866 ppm
Concentration RSD	31.0 %	4.3 %	186.6 %	0.5 %	4.1 %	4,411.9 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0057 ppm	0.0078 ppm	0.0279 ppm	9.6384 ppm	3.6235 ppm	0.0082 ppm
Concentration per Run 1	0.0001 ppm	0.0056 ppm	0.0081 ppm	0.0279 ppm	9.9828 ppm	3.7633 ppm	0.0077 ppm
Concentration per Run 2	0.0001 ppm	0.0058 ppm	0.0078 ppm	0.0277 ppm	9.7216 ppm	3.6353 ppm	0.0096 ppm
Concentration per Run 3	0.0001 ppm	0.0056 ppm	0.0074 ppm	0.0280 ppm	9.2107 ppm	3.4719 ppm	0.0072 ppm
Concentration RSD	24.8 %	1.4 %	4.5 %	0.6 %	4.1 %	4.0 %	15.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2865 ppm	0.1754 ppm	0.0012 ppm	49.2502 ppm	0.0075 ppm	0.0110 ppm	-0.0006 ppm
Concentration per Run 1	3.2943 ppm	0.1822 ppm	0.0012 ppm	51.0778 ppm	0.0074 ppm	0.0114 ppm	-0.0007 ppm
Concentration per Run 2	3.2800 ppm	0.1769 ppm	0.0013 ppm	49.6648 ppm	0.0074 ppm	0.0105 ppm	-0.0008 ppm
Concentration per Run 3	3.2851 ppm	0.1669 ppm	0.0011 ppm	47.0079 ppm	0.0077 ppm	0.0111 ppm	-0.0003 ppm
Concentration RSD	0.2 %	4.4 %	9.5 %	4.2 %	2.2 %	3.9 %	49.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	9.2343 ppm	0.0001 ppm	0.0895 ppm	0.3043 ppm	0.0000 ppm	0.0177 ppm
Concentration per Run 1	-0.0005 ppm	9.2149 ppm	0.0006 ppm	0.0930 ppm	0.3042 ppm	0.0016 ppm	0.0178 ppm
Concentration per Run 2	0.0022 ppm	9.2660 ppm	-0.0004 ppm	0.0902 ppm	0.3045 ppm	0.0006 ppm	0.0178 ppm
Concentration per Run 3	0.0019 ppm	9.2219 ppm	0.0000 ppm	0.0854 ppm	0.3043 ppm	-0.0021 ppm	0.0175 ppm
Concentration RSD	124.7 %	0.3 %	846.0 %	4.3 %	0.0 %	31,462.2 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.3600 ppm	97.8131 %	98.8063 %	100.8057 %	98.5278 %	97.4882 %	100.8051 %
Concentration per Run 1	1.3576 ppm	94.9756 %	98.6388 %	100.8803 %	94.9597 %	97.7945 %	100.6150 %
Concentration per Run 2	1.3611 ppm	97.1568 %	98.7838 %	100.9013 %	97.7649 %	97.2996 %	100.8796 %
Concentration per Run 3	1.3613 ppm	101.3068 %	98.9964 %	100.6354 %	102.8588 %	97.3706 %	100.9207 %
Concentration RSD	0.2 %	3.3 %	0.2 %	0.1 %	4.1 %	0.3 %	0.2 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511586-01 WG2036987
Analysis started at: 3/10/2025 3:02:38 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0197 ppm	0.6225 ppm	-0.0005 ppm	0.1155 ppm	0.1461 ppm	0.0000 ppm	41.9665 ppm
Concentration per Run 1	0.0197 ppm	0.6424 ppm	-0.0023 ppm	0.1156 ppm	0.1509 ppm	0.0000 ppm	43.3027 ppm
Concentration per Run 2	0.0197 ppm	0.6188 ppm	0.0003 ppm	0.1158 ppm	0.1442 ppm	0.0000 ppm	41.5227 ppm
Concentration per Run 3	0.0199 ppm	0.6064 ppm	0.0005 ppm	0.1150 ppm	0.1433 ppm	0.0000 ppm	41.0740 ppm
Concentration RSD	0.6 %	2.9 %	317.0 %	0.4 %	2.9 %	433.4 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0028 ppm	0.0009 ppm	0.4435 ppm	0.1344 ppm	0.7810 ppm	1.4818 ppm	0.0037 ppm
Concentration per Run 1	0.0028 ppm	0.0009 ppm	0.4408 ppm	0.1334 ppm	0.8061 ppm	1.5298 ppm	0.0036 ppm
Concentration per Run 2	0.0028 ppm	0.0009 ppm	0.4458 ppm	0.1349 ppm	0.7700 ppm	1.4744 ppm	0.0038 ppm
Concentration per Run 3	0.0027 ppm	0.0009 ppm	0.4439 ppm	0.1349 ppm	0.7670 ppm	1.4412 ppm	0.0037 ppm
Concentration RSD	1.9 %	3.9 %	0.6 %	0.7 %	2.8 %	3.0 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.5228 ppm	0.0237 ppm	0.0016 ppm	76.5154 ppm	0.3387 ppm	0.0079 ppm	0.0022 ppm
Concentration per Run 1	4.4982 ppm	0.0244 ppm	0.0016 ppm	79.2334 ppm	0.3392 ppm	0.0071 ppm	0.0025 ppm
Concentration per Run 2	4.5480 ppm	0.0237 ppm	0.0015 ppm	75.5591 ppm	0.3394 ppm	0.0076 ppm	0.0034 ppm
Concentration per Run 3	4.5222 ppm	0.0232 ppm	0.0016 ppm	74.7537 ppm	0.3375 ppm	0.0088 ppm	0.0008 ppm
Concentration RSD	0.6 %	2.5 %	5.5 %	3.1 %	0.3 %	11.0 %	58.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	8.2002 ppm	0.0011 ppm	0.1470 ppm	0.0870 ppm	-0.0015 ppm	0.0045 ppm
Concentration per Run 1	0.0015 ppm	8.2128 ppm	0.0002 ppm	0.1521 ppm	0.0867 ppm	-0.0016 ppm	0.0044 ppm
Concentration per Run 2	-0.0009 ppm	8.2244 ppm	0.0016 ppm	0.1454 ppm	0.0871 ppm	-0.0005 ppm	0.0046 ppm
Concentration per Run 3	0.0021 ppm	8.1633 ppm	0.0015 ppm	0.1434 ppm	0.0870 ppm	-0.0024 ppm	0.0046 ppm
Concentration RSD	185.3 %	0.4 %	70.5 %	3.1 %	0.2 %	65.2 %	3.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1175 ppm	99.3704 %	95.2558 %	96.1065 %	100.8695 %	93.0833 %	97.8003 %
Concentration per Run 1	0.1178 ppm	97.9272 %	95.7270 %	96.3332 %	98.1817 %	92.9575 %	98.2596 %
Concentration per Run 2	0.1176 ppm	99.0937 %	94.6917 %	95.9081 %	101.4124 %	92.9195 %	97.3111 %
Concentration per Run 3	0.1170 ppm	101.0901 %	95.3486 %	96.0783 %	103.0143 %	93.3729 %	97.8303 %
Concentration RSD	0.4 %	1.6 %	0.5 %	0.2 %	2.4 %	0.3 %	0.5 %

LabBook: WG2038397_03102025T5.imexp

Sample: L2511587-01 WG2036987
Analysis started at: 3/10/2025 3:08:57 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0011 ppm	-0.0007 ppm	0.0342 ppm	0.0001 ppm	0.0000 ppm	0.1949 ppm
Concentration per Run 1	0.0001 ppm	0.0029 ppm	-0.0005 ppm	0.0340 ppm	0.0001 ppm	0.0000 ppm	0.1907 ppm
Concentration per Run 2	-0.0001 ppm	-0.0054 ppm	-0.0017 ppm	0.0342 ppm	0.0000 ppm	0.0000 ppm	0.2029 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0343 ppm	0.0000 ppm	0.0000 ppm	0.1911 ppm
Concentration RSD	654.8 %	389.7 %	125.8 %	0.4 %	45.5 %	108.8 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0243 ppm	0.0065 ppm	156.4503 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0243 ppm	0.0061 ppm	157.7120 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0242 ppm	0.0067 ppm	156.5821 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0243 ppm	0.0066 ppm	155.0566 ppm	-0.0004 ppm
Concentration RSD	80.7 %	542.9 %	70.9 %	0.4 %	5.1 %	0.9 %	305.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0149 ppm	0.0002 ppm	0.0000 ppm	11.3259 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0159 ppm	0.0001 ppm	0.0001 ppm	11.4063 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0130 ppm	0.0001 ppm	0.0000 ppm	11.3344 ppm	-0.0003 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 3	0.0158 ppm	0.0005 ppm	0.0000 ppm	11.2369 ppm	0.0001 ppm	0.0005 ppm	0.0006 ppm
Concentration RSD	11.1 %	103.4 %	176.4 %	0.8 %	1,327.4 %	20.4 %	108.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	6.6564 ppm	-0.0004 ppm	0.0005 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0015 ppm	6.6600 ppm	-0.0011 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0009 ppm	6.6507 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0028 ppm	6.6584 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm	-0.0009 ppm	0.0000 ppm
Concentration RSD	56.1 %	0.1 %	152.4 %	14.2 %	4,917.6 %	124.7 %	143.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0058 ppm	102.7462 %	95.4722 %	96.6181 %	101.8426 %	94.9623 %	97.7726 %
Concentration per Run 1	0.0058 ppm	103.1446 %	95.5463 %	96.3193 %	101.2360 %	95.0351 %	97.9743 %
Concentration per Run 2	0.0059 ppm	102.3887 %	95.5336 %	96.9611 %	101.3292 %	94.9641 %	97.4660 %
Concentration per Run 3	0.0057 ppm	102.7054 %	95.3367 %	96.5740 %	102.9626 %	94.8876 %	97.8774 %
Concentration RSD	1.3 %	0.4 %	0.1 %	0.3 %	1.0 %	0.1 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCV
Analysis started at: 3/10/2025 3:15:22 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5020 ppm	0.4886 ppm	0.4976 ppm	0.4960 ppm	0.4797 ppm	0.4998 ppm	0.5106 ppm
Concentration per Run 1	0.5017 ppm	0.5039 ppm	0.4977 ppm	0.4949 ppm	0.4916 ppm	0.5129 ppm	0.5247 ppm
Concentration per Run 2	0.5026 ppm	0.4851 ppm	0.4961 ppm	0.4946 ppm	0.4773 ppm	0.4975 ppm	0.5103 ppm
Concentration per Run 3	0.5019 ppm	0.4768 ppm	0.4991 ppm	0.4984 ppm	0.4702 ppm	0.4890 ppm	0.4967 ppm
Recovery Percentage 1	100.409 %	97.720 %	99.525 %	99.191 %	95.939 %	99.958 %	102.118 %
Concentration RSD	0.1 %	2.8 %	0.3 %	0.4 %	2.3 %	2.4 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5028 ppm	0.5196 ppm	0.4920 ppm	0.4851 ppm	0.5166 ppm	5.3277 ppm	0.4929 ppm
Concentration per Run 1	0.5025 ppm	0.5195 ppm	0.4904 ppm	0.4829 ppm	0.5293 ppm	5.4434 ppm	0.5053 ppm
Concentration per Run 2	0.5010 ppm	0.5173 ppm	0.4922 ppm	0.4853 ppm	0.5153 ppm	5.2990 ppm	0.4902 ppm
Concentration per Run 3	0.5049 ppm	0.5218 ppm	0.4935 ppm	0.4872 ppm	0.5053 ppm	5.2408 ppm	0.4833 ppm
Recovery Percentage 1	100.561 %	103.910 %	98.407 %	97.028 %	103.329 %	106.555 %	98.588 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.4 %	2.3 %	2.0 %	2.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5084 ppm	0.4967 ppm	0.4975 ppm	9.9597 ppm	0.5170 ppm	0.5132 ppm	0.5149 ppm
Concentration per Run 1	0.5091 ppm	0.5105 ppm	0.4960 ppm	10.2362 ppm	0.5165 ppm	0.5144 ppm	0.5161 ppm
Concentration per Run 2	0.5063 ppm	0.4938 ppm	0.4950 ppm	9.9133 ppm	0.5151 ppm	0.5100 ppm	0.5135 ppm
Concentration per Run 3	0.5096 ppm	0.4857 ppm	0.5015 ppm	9.7297 ppm	0.5195 ppm	0.5153 ppm	0.5151 ppm
Recovery Percentage 1	101.673 %	99.331 %	99.508 %	99.597 %	103.406 %	102.648 %	102.986 %
Concentration RSD	0.4 %	2.6 %	0.7 %	2.6 %	0.4 %	0.6 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5000 ppm	5.7334 ppm	0.5249 ppm	0.5059 ppm	0.4999 ppm	0.5179 ppm	0.4900 ppm
Concentration per Run 1	0.5005 ppm	5.7312 ppm	0.5250 ppm	0.5186 ppm	0.4982 ppm	0.5167 ppm	0.4883 ppm
Concentration per Run 2	0.4974 ppm	5.7082 ppm	0.5250 ppm	0.5036 ppm	0.5006 ppm	0.5162 ppm	0.4902 ppm
Concentration per Run 3	0.5020 ppm	5.7608 ppm	0.5246 ppm	0.4957 ppm	0.5011 ppm	0.5209 ppm	0.4915 ppm
Recovery Percentage 1	99.999 %	109.208 %	104.973 %	101.186 %	99.986 %	103.589 %	98.002 %
Concentration RSD	0.5 %	0.5 %	0.0 %	2.3 %	0.3 %	0.5 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5128 ppm	99.3742 %	98.0906 %	97.5774 %	100.5392 %	98.1122 %	100.2948 %
Concentration per Run 1	0.5119 ppm	97.5753 %	98.0572 %	97.6640 %	98.1004 %	98.2491 %	100.2917 %
Concentration per Run 2	0.5110 ppm	99.0920 %	98.2743 %	97.6730 %	100.6389 %	98.4820 %	100.5626 %
Concentration per Run 3	0.5154 ppm	101.4552 %	97.9402 %	97.3952 %	102.8784 %	97.6054 %	100.0301 %
Recovery Percentage 1	102.553 %						
Concentration RSD	0.4 %	2.0 %	0.2 %	0.2 %	2.4 %	0.5 %	0.3 %

LabBook: WG2038397_03102025T5.imexp

Sample: CCB
Analysis started at: 3/10/2025 3:21:29 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0042 ppm	-0.0009 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	-0.0024 ppm
Concentration per Run 1	0.0005 ppm	-0.0051 ppm	-0.0009 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	-0.0007 ppm	0.0013 ppm	0.0002 ppm	0.0001 ppm	-0.0050 ppm
Concentration per Run 3	0.0002 ppm	-0.0073 ppm	-0.0013 ppm	0.0012 ppm	0.0004 ppm	0.0002 ppm	-0.0037 ppm
Recovery Percentage 1	2.062 %	-4.183 %	-18.908 %	3.722 %	2.661 %	2.515 %	-2.390 %
Concentration RSD	247.8 %	87.4 %	31.2 %	17.2 %	56.9 %	34.9 %	141.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0016 ppm	0.0359 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0009 ppm	0.0474 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0364 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0024 ppm	0.0239 ppm	-0.0011 ppm
Recovery Percentage 1	0.420 %	-0.126 %	1.093 %	-0.788 %	3.107 %	1.436 %	-4.078 %
Concentration RSD	315.7 %	538.8 %	32.4 %	354.2 %	48.5 %	32.8 %	217.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0030 ppm	0.0001 ppm	0.0004 ppm	0.0143 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	-0.0028 ppm	-0.0001 ppm	0.0005 ppm	0.0130 ppm	-0.0001 ppm	0.0011 ppm	0.0006 ppm
Concentration per Run 2	-0.0025 ppm	0.0001 ppm	0.0003 ppm	0.0088 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 3	-0.0037 ppm	0.0003 ppm	0.0004 ppm	0.0209 ppm	0.0003 ppm	-0.0003 ppm	0.0006 ppm
Recovery Percentage 1	-2.991 %	1.085 %	0.777 %	0.713 %	0.507 %	3.356 %	1.010 %
Concentration RSD	20.1 %	217.8 %	33.8 %	43.2 %	137.3 %	217.9 %	25.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	0.0011 ppm	-0.0002 ppm	0.0002 ppm	0.0003 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0010 ppm	0.0009 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 2	-0.0005 ppm	0.0011 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	-0.0024 ppm	0.0000 ppm
Concentration per Run 3	0.0007 ppm	0.0015 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	-0.0016 ppm	-0.0001 ppm
Recovery Percentage 1	4.207 %	0.229 %	-0.347 %	2.452 %	2.571 %	-4.253 %	-0.849 %
Concentration RSD	185.1 %	26.0 %	200.9 %	23.1 %	53.4 %	236.4 %	107.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	105.6432 %	99.2388 %	99.1890 %	104.4000 %	99.9467 %	99.4003 %
Concentration per Run 1	0.0001 ppm	107.1197 %	99.3944 %	99.2339 %	104.5883 %	99.8475 %	99.3667 %
Concentration per Run 2	0.0002 ppm	104.6684 %	98.9452 %	99.1155 %	103.5156 %	100.0649 %	99.3528 %
Concentration per Run 3	0.0001 ppm	105.1414 %	99.3768 %	99.2176 %	105.0961 %	99.9275 %	99.4814 %
Recovery Percentage 1	3.040 %						
Concentration RSD	47.9 %	1.2 %	0.3 %	0.1 %	0.8 %	0.1 %	0.1 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ERA
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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

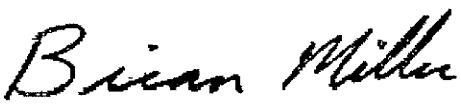
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 5

3/6/2025 12:43:36 PM

LabBook: WG2037194_03062025T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMC Trace5	0	1	3/6/2025 6:02:31 AM
2	ICAL	0	2	3/6/2025 6:08:55 AM
3	ICV	0	3	3/6/2025 6:27:14 AM
4	ICB	0	4	3/6/2025 6:33:21 AM
5	ICV	0	10	3/6/2025 6:39:56 AM
6	ICB	0	4	3/6/2025 6:46:07 AM
7	LLOQ RL	0	5	3/6/2025 6:52:33 AM
8	ICSA	0	6	3/6/2025 6:58:56 AM
9	SIC Multi	0	7	3/6/2025 7:18:13 AM
10	LDR Check	0	8	3/6/2025 7:25:04 AM
11	LLOQ 0.005 ZN PASS	1	1	3/6/2025 7:45:30 AM
12	IEC 10PPM V TL+	1	2	3/6/2025 7:53:12 AM
13	IEC 20PPM CR SB-	1	3	3/6/2025 8:03:28 AM
14	LDR 250PPM NA	1	4	3/6/2025 8:10:00 AM
15	XIEC 500PM AL	1	5	3/6/2025 8:16:33 AM
16	IEC 20PPM Ti CU- V+	1	6	3/6/2025 8:32:46 AM
17	IEC 200PPM FE CU- AS+	1	7	3/6/2025 8:39:16 AM
18	CCV	0	3	3/6/2025 8:58:38 AM
19	CCB	0	4	3/6/2025 9:04:47 AM
20	WG2036471-1 WG2036471	1	8	3/6/2025 9:26:26 AM
21	WG2036471-2 WG2036471	1	9	3/6/2025 9:32:51 AM
22	L2510980-01 WG2036471	1	10	3/6/2025 9:38:59 AM
23	WG2036471-3 WG2036471	1	11	3/6/2025 9:45:25 AM
24	WG2036471-4 WG2036471	1	12	3/6/2025 9:51:39 AM
25	WG2036471-5 WG2036471	1	13	3/6/2025 9:58:05 AM
26	WG2036471-6D5 WG2036471	1	14	3/6/2025 10:04:15 AM
27	CCV	0	3	3/6/2025 10:10:34 AM
28	CCB	0	4	3/6/2025 10:16:42 AM
29	WG2037045-1 WG2037045	1	15	3/6/2025 10:55:54 AM
30	WG2037045-2d2 WG2037045	1	16	3/6/2025 11:02:24 AM
31	L2511043-03d2 WG2037045	1	22	3/6/2025 11:08:31 AM
32	I2510890-01d2 WG2037045	1	17	3/6/2025 11:14:47 AM
33	WG2037045-3d2 WG2037045	1	18	3/6/2025 11:21:11 AM
34	WG2037045-4d2 WG2037045	1	19	3/6/2025 11:27:42 AM
35	WG2037045-5d2 WG2037045	1	20	3/6/2025 11:34:01 AM
36	WG2037045-6d10 WG2037045	1	21	3/6/2025 11:40:29 AM
37	CCV	0	3	3/6/2025 11:50:19 AM
38	CCB	0	4	3/6/2025 11:56:29 AM
39	LDR 300 Fe pass 89.7	1	23	3/6/2025 12:06:20 PM
40		1	24	
41		1	25	
42		1	26	
43		1	27	
44		1	28	
45		1	29	
46		1	30	
47		1	31	
48		1	32	
49		1	33	
50		1	34	
51		1	35	
52		1	36	
53		1	37	
54		1	38	
55		1	39	
56		1	40	
57		1	41	
58		1	42	
59		1	43	
60	CCV	0	3	
61	CCB	0	4	
62	LLOQ RL	0	5	

Sequence Trace 5

3/7/2025 8:42:30 PM

LabBook: WG2037545_03072025T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank TAA Trace5	0	1	3/6/2025 8:38:21 PM
2	ICAL	0	2	3/6/2025 8:44:54 PM
3	ICV	0	3	3/6/2025 8:51:05 PM
4	ICB	0	4	3/6/2025 8:58:03 PM
5	LLOQ RL	0	5	3/6/2025 9:04:39 PM
6	ICSA	0	6	3/6/2025 9:11:10 PM
7	SIC Multi	0	7	3/6/2025 9:18:00 PM
8	LDR Check	0	8	3/6/2025 9:25:03 PM
9	CCV	0	3	3/6/2025 9:32:41 PM
10	CCB	0	4	3/6/2025 9:39:19 PM
11	CCV	0	3	3/7/2025 9:25:27 AM
12	CCB	0	4	3/7/2025 9:31:40 AM
13	LDR 200 Na pass	1	1	3/7/2025 9:55:43 AM
14	zLDR 100 Na	1	2	3/7/2025 10:02:17 AM
15	LLOQ 0.05ppm Ca Fe pass	1	3	3/7/2025 10:08:40 AM
16	LLOQ 0.01ppm As pass	1	4	3/7/2025 10:15:04 AM
17	zLLOQ 0.005ppm	1	5	3/7/2025 10:21:29 AM
18	LDR 10 As	1	6	3/7/2025 10:36:05 AM
19	CCV	0	3	3/7/2025 11:12:32 AM
20	CCB	0	4	3/7/2025 11:18:39 AM
21	WG2037635-1 WG2037635	1	7	3/7/2025 11:44:47 AM
22	WG2037635-2 WG2037635	1	8	3/7/2025 11:51:13 AM
23	L2512174-01 WG2037635	1	9	3/7/2025 11:57:20 AM
24	WG2037635-3 WG2037635	1	10	3/7/2025 12:03:40 PM
25	WG2037635-4 WG2037635	1	11	3/7/2025 12:09:46 PM
26	L2512232-01 WG2037635	1	12	3/7/2025 12:16:06 PM
27	L2512232-02 WG2037635	1	13	3/7/2025 12:22:29 PM
28	L2512232-03 WG2037635	1	14	3/7/2025 12:28:47 PM
29	L2512232-04 WG2037635	1	15	3/7/2025 12:35:05 PM
30	L2511800-11 wg2037385	1	16	3/7/2025 12:41:23 PM
31	CCV	0	3	3/7/2025 12:47:43 PM
32	CCB	0	4	3/7/2025 12:53:56 PM
33	L2511800-13 wg2037385	1	17	3/7/2025 1:00:28 PM
34	WG2036987-1 WG2036987	1	18	3/7/2025 1:11:51 PM
35	WG2036987-2 WG2036987	1	19	3/7/2025 1:18:24 PM
36	L2511810-01 WG2036987	1	25	3/7/2025 1:24:35 PM
37	L2511960-01 WG2036987	1	26	3/7/2025 1:31:08 PM
38	L2511114-01 WG2036987	1	20	3/7/2025 1:37:31 PM
39	WG2036987-3 WG2036987	1	21	3/7/2025 1:43:50 PM
40	WG2036987-4 WG2036987	1	22	3/7/2025 1:50:00 PM
41	WG2036987-5 WG2036987	1	23	3/7/2025 1:56:19 PM
42	WG2036987-6D5 WG2036987	1	24	3/7/2025 2:02:25 PM
43	CCV	0	3	3/7/2025 2:08:48 PM
44	CCB	0	4	3/7/2025 2:15:02 PM
45	L2511313-01D2 WG2036900	1	27	3/7/2025 2:35:48 PM
46	L2511313-02D2 WG2036900	1	28	3/7/2025 2:42:01 PM
47	L2511313-03D2 WG2036900	1	29	3/7/2025 2:48:19 PM
48	L2511313-04D2 WG2036900	1	30	3/7/2025 2:54:48 PM
49	L2511313-05D2 WG2036900	1	31	3/7/2025 3:00:58 PM
50	I2511197-03D2 WG2037045	1	32	3/7/2025 3:07:49 PM
51	I2511197-04D2 WG2037045	1	33	3/7/2025 3:14:06 PM
52	I2511197-06D2 WG2037045	1	34	3/7/2025 3:20:17 PM
53	L2511313-05D4 WG2036900	1	35	3/7/2025 3:26:36 PM
54	CCV	0	3	3/7/2025 3:33:13 PM
55	CCB	0	4	3/7/2025 3:39:29 PM
56	WG2037379-1 WG2037379	1	36	3/7/2025 3:53:16 PM
57	WG2037379-2 WG2037379	1	37	3/7/2025 3:59:44 PM
58	L2511075-01 WG2037379	1	43	3/7/2025 4:05:58 PM
59	L2511398-01 WG2037379	1	38	3/7/2025 4:12:20 PM
60	WG2037379-3 WG2037379	1	39	3/7/2025 4:18:39 PM
61	WG2037379-4 WG2037379	1	40	3/7/2025 4:24:53 PM
62	WG2037379-5 WG2037379	1	41	3/7/2025 4:31:11 PM
63	WG2037379-6D5 WG2037379	1	42	3/7/2025 4:37:25 PM
64	CCV	0	3	3/7/2025 4:43:48 PM
65	CCB	0	4	3/7/2025 4:50:05 PM
66	WG2037336-1 WG2037336	1	44	3/7/2025 5:00:13 PM
67	I2510432-01d2 WG2037336	1	45	3/7/2025 5:06:46 PM
68	WG2037336-3d2 WG2037336	1	46	3/7/2025 5:13:19 PM
69	WG2037336-4d2 WG2037336	1	47	3/7/2025 5:19:33 PM
70	WG2037336-5d2 WG2037336	1	48	3/7/2025 5:26:06 PM
71	WG2037336-6d10 WG2037336	1	49	3/7/2025 5:32:20 PM
72	CCV	0	3	3/7/2025 5:38:53 PM

Sequence Trace 5

3/7/2025 8:42:30 PM

Index:	Label:	Rack	Vial	Start time:
73	CCB	0	4	3/7/2025 5:45:10 PM
74	WG2037408-1 WG2037408	1	50	3/7/2025 6:06:08 PM
75	WG2037096-2 WG2037096	1	54	3/7/2025 6:12:33 PM
76	WG2037408-2d2 WG2037408	1	51	3/7/2025 6:18:59 PM
77	WG2037408-3d2 WG2037408	1	52	3/7/2025 6:25:01 PM
78	I2511286-02d2 WG2037408	1	53	3/7/2025 6:31:07 PM
79	CCV	0	3	3/7/2025 6:37:23 PM
80	CCB	0	4	3/7/2025 6:43:34 PM
81	L2511250-01 wg2037399	1	55	3/7/2025 6:55:30 PM
82	L2511234-01 WG2036497	1	56	3/7/2025 7:01:49 PM
83	L2511241-01 WG2036497	1	57	3/7/2025 7:08:09 PM
84	L2511248-01 WG2036497	1	58	3/7/2025 7:14:30 PM
85	L2511248-02 WG2036497	1	59	3/7/2025 7:21:56 PM
86	CCV	0	3	3/7/2025 7:28:18 PM
87	CCB	0	4	3/7/2025 7:34:31 PM
88	L2511468-02 WG2037368	1	60	3/7/2025 7:45:00 PM
89	CCV	0	3	3/7/2025 7:51:19 PM
90	CCB	0	4	3/7/2025 7:57:30 PM
91	XNO VOLUME	0	5	3/7/2025 8:11:47 PM

Sequence Trace 5

3/10/2025 3:29:46 PM

LabBook: WG2038397_03102025T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMC Trace5	0	1	3/10/2025 6:10:19 AM
2	ICAL	0	2	3/10/2025 6:16:43 AM
3	ICV	0	3	3/10/2025 6:33:23 AM
4	ICB	0	4	3/10/2025 6:39:30 AM
5	ICV	0	3	3/10/2025 6:46:20 AM
6	ICB	0	4	3/10/2025 6:52:27 AM
7	LLOQ RL	0	5	3/10/2025 6:58:52 AM
8	ICSA	0	6	3/10/2025 7:05:13 AM
9	SIC Multi	0	7	3/10/2025 7:28:29 AM
10	LDR Check	0	8	3/10/2025 7:35:18 AM
11	ZLLOQ 0.005 AS,ZN PASS	1	1	3/10/2025 8:12:00 AM
12	ZLLOQ 0.01 SE,CU PASS	1	2	3/10/2025 8:18:22 AM
13	ZLLOQ 0.100 CA FAILS	1	3	3/10/2025 8:24:46 AM
14	IEC 10PPM V TL- BE-	1	4	3/10/2025 8:31:42 AM
15	LDR 50PPM PB PASS	1	5	3/10/2025 8:38:22 AM
16	LDR 200PPM FE PASS	1	6	3/10/2025 8:46:12 AM
17	LDR 500PPM NA PASS	1	7	3/10/2025 8:52:41 AM
18	XLLOQ 0.01	1	9	3/10/2025 9:24:19 AM
19	ZLLOQ 0.05 CA PASS	1	8	3/10/2025 9:30:41 AM
20	CCV	0	3	3/10/2025 9:46:45 AM
21	CCB	0	4	3/10/2025 9:52:52 AM
22	WG2038406-1 WG2038406	1	10	3/10/2025 10:06:15 AM
23	WG2038402-1 WG2038402	1	17	3/10/2025 10:12:40 AM
24	WG2038406-2 WG2038406	1	11	3/10/2025 10:19:12 AM
25	WG2038402-2 WG2038402	1	18	3/10/2025 10:25:20 AM
26	L2512560-01 WG2038406	1	12	3/10/2025 10:31:26 AM
27	WG2038406-3 WG2038406	1	13	3/10/2025 10:37:50 AM
28	WG2038406-4 WG2038406	1	14	3/10/2025 10:43:54 AM
29	WG2038406-5 WG2038406	1	15	3/10/2025 10:50:14 AM
30	WG2038406-6D5 WG2038406	1	16	3/10/2025 10:56:18 AM
31	CCV	0	3	3/10/2025 11:02:40 AM
32	CCB	0	4	3/10/2025 11:08:47 AM
33	L2512865-01 WG2038402	1	19	3/10/2025 11:26:30 AM
34	WG2038402-3 WG2038402	1	20	3/10/2025 11:32:59 AM
35	WG2038402-4 WG2038402	1	21	3/10/2025 11:39:14 AM
36	CCV	0	3	3/10/2025 11:45:43 AM
37	CCB	0	4	3/10/2025 11:51:50 AM
38	WG2036987-1 WG2036987	1	27	3/10/2025 12:14:40 PM
39	WG2036987-2 WG2036987	1	28	3/10/2025 12:21:03 PM
40	L2511485-01 WG2036497	1	22	3/10/2025 12:27:08 PM
41	L2511485-02 WG2036497	1	23	3/10/2025 12:33:26 PM
42	L2511485-03 WG2036497	1	24	3/10/2025 12:41:25 PM
43	L2511485-04 WG2036497	1	25	3/10/2025 12:47:45 PM
44	L2511529-01 WG2036471	1	26	3/10/2025 12:54:02 PM
45	L2511466-01 WG2036987	1	34	3/10/2025 1:00:20 PM
46	L2511503-02 WG2036987	1	35	3/10/2025 1:06:43 PM
47	L2511503-03 WG2036987	1	36	3/10/2025 1:13:04 PM
48	CCV	0	3	3/10/2025 1:19:25 PM
49	CCB	0	4	3/10/2025 1:25:31 PM
50	L2511503-07 WG2036987	1	37	3/10/2025 1:39:23 PM
51	L2511509-01 WG2036987	1	38	3/10/2025 1:45:40 PM
52	L2511509-02 WG2036987	1	39	3/10/2025 1:51:57 PM
53	L2511529-01 WG2036987	1	40	3/10/2025 1:58:16 PM
54	L2511533-01 WG2036987	1	41	3/10/2025 2:04:34 PM
55	L2511503-06 WG2036987	1	29	3/10/2025 2:10:55 PM
56	WG2036987-7 WG2036987	1	30	3/10/2025 2:17:13 PM
57	WG2036987-8 WG2036987	1	31	3/10/2025 2:23:18 PM
58	WG2036987-9 WG2036987	1	32	3/10/2025 2:29:36 PM
59	WG2036987-10D5 WG2036987	1	33	3/10/2025 2:35:42 PM
60	CCV	0	3	3/10/2025 2:42:01 PM
61	CCB	0	4	3/10/2025 2:48:08 PM
62	L2511585-01 WG2036987	1	42	3/10/2025 2:56:23 PM
63	L2511586-01 WG2036987	1	43	3/10/2025 3:02:38 PM
64	L2511587-01 WG2036987	1	44	3/10/2025 3:08:57 PM
65	CCV	0	3	3/10/2025 3:15:22 PM
66	CCB	0	4	3/10/2025 3:21:29 PM
67		1	45	
68		1	46	
69		1	47	
70		1	48	
71		1	49	
72		1	50	

Sequence Trace 5

3/10/2025 3:29:46 PM

Index:	Label:	Rack	Vial	Start time:
73		1	51	
74		1	52	
75		1	53	
76		1	54	
77	CCV	0	3	
78	CCB	0	4	
79		1	55	
80		1	56	
81		1	57	
82		1	58	
83		1	59	
84		1	60	
85		2	1	
86		2	2	
87	CCV	0	3	
88	CCB	0	4	
89	LLOQ RL	0	5	

METALS ELN REPORT

Workgroup: WG2036471

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3250721314ADG	1:1 HCl	tHCL250828 0920JDH	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2510330-01 WATER	03/04/25 15:39	Maisie Mcqueen	02-25-25 20:08	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	
L2510330-02 WATER	03/04/25 15:39	Maisie Mcqueen	02-25-25 20:08	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	
L2510330-03 WATER	03/04/25 15:39	Maisie Mcqueen	02-25-25 20:08	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	
L2510330-04 WATER	03/04/25 15:39	Maisie Mcqueen	02-25-25 20:08	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	
L2510980-01 WATER	03/04/25 15:39	Maisie Mcqueen	02-28-25 09:50	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	
L2511529-01 WATER	03/04/25 15:39	Maisie Mcqueen	NA	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	
WG2036471-1 BLANK	03/04/25 15:39	Maisie Mcqueen	02/25/25 20:08	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	FM2507210326 CLH
WG2036471-2 LCS	03/04/25 15:39	Maisie Mcqueen	NA	50	<2	0.5	03/04/25 15:39	9	95.0	03/04/25 18:39	50	IPS250504203 3MGM
WG2036471-3 MS	03/04/25 15:39	Maisie Mcqueen	NA	50	<2	0.5	03/04/25 15:39	9	95.0	03/04/25 18:39	50	ELN:GAN
WG2036471-4 DUP	03/04/25 15:39	Maisie Mcqueen	NA	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	

Reported: 10-MAR-25 04:25 PM

METALS ELN REPORT

Workgroup: WG2036471

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG2036471-5 PS	03/04/25 15:39	Maisie Mcqueen	NA	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	
WG2036471-6 SERDIL	03/04/25 15:39	Maisie Mcqueen	NA	50	<2		03/04/25 15:39	9	95.0	03/04/25 18:39	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 10-MAR-25 04:25 PM

METALS ELN REPORT

Workgroup: WG2036987

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3250721 01314ADG	1:1 HCl	tHCL250828 0920JDH	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2511114-01 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511466-01 WATER	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511503-02 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511503-03 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511503-06 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511503-07 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511509-01 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511509-02 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511529-01 WATER	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511533-01 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	

Reported: 10-MAR-25 04:25 PM

METALS ELN REPORT

Workgroup: WG2036987

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2511585-01 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511586-01 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511587-01 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511810-01 WATER	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
L2511960-01 SAMP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
WG2036987-1 BLANK	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	FM2507210326 CLH
WG2036987-2 LCS	03/05/25 20:08	Maisie Mcqueen	50	<2	0.5	03/05/25 20:08	9	93.7	03/05/25 23:08	50	ELN: NDD
WG2036987-3 MS	03/05/25 20:08	Maisie Mcqueen	50	<2	0.5	03/05/25 20:08	9	93.7	03/05/25 23:08	50	
WG2036987-4 DUP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
WG2036987-5 PS	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
WG2036987-6 SERDIL	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
WG2036987-7 MS	03/05/25 20:08	Maisie Mcqueen	50	<2	0.5	03/05/25 20:08	9	93.7	03/05/25 23:08	50	

METALS ELN REPORT

Workgroup: WG2036987

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG2036987-8 DUP	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
WG2036987-9 PS	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	
WG2036987-10 SERDIL	03/05/25 20:08	Maisie Mcqueen	50	<2		03/05/25 20:08	9	93.7	03/05/25 23:08	50	IPS2505042033MGM

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 10-MAR-25 04:25 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/06/25 11:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2037201.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/05/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036992-1	**Date Collected**	: NA
Client ID	: WG2036992-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/25 10:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2037201.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/05/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036992-4	**Date Collected**	: 03/04/25 08:30
Client ID	: WG2036992-4 DUP	**Date Received**	: 03/04/25
Sample Location	:	**Date Analyzed**	: 03/06/25 11:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2037201.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/05/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/09/25 13:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2038237.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/07/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037773-1	**Date Collected**	: NA
Client ID	: WG2037773-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/09/25 13:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2038237.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/07/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1937475-1			R1937475-3			R1937475-5		R1937475-7	
Date Analyzed :	03/06/25 06:34			03/06/25 08:12			03/06/25 08:54		03/06/25 09:36	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0031	103	0.0050	0.00500	99	0.00490	98	0.00490	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1937475-9			R1937475-11		R1937475-13	
Date Analyzed :				03/06/25 10:15			03/06/25 11:22		03/06/25 12:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100	0.00490	99	0.00500	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1938411-1			R1938411-3			R1938411-5		R1938411-7	
Date Analyzed :	03/09/25 10:29			03/09/25 11:32			03/09/25 12:12		03/09/25 12:52	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0031	104	0.0050	0.00520	104	0.00520	103	0.00510	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1938411-9						
Date Analyzed :				03/09/25 13:31						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00520	103				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1937475-2		R1937475-4		R1937475-6		R1937475-8		WG2036992-1	
Date Analyzed	:	03/06/25 06:37		03/06/25 08:16		03/06/25 08:57		03/06/25 09:39		03/06/25 10:52	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury		0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1937475-10		R1937475-12		R1937475-14			
Date Analyzed :			03/06/25 10:19		03/06/25 11:25		03/06/25 12:20			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1938411-2	R1938411-4	R1938411-6	R1938411-8	WG2037773-1
Date Analyzed :	03/09/25 10:33	03/09/25 11:36	03/09/25 12:15	03/09/25 12:55	03/09/25 13:11
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000910 U	0.0000910 U	0.0000910 U	0.0000910 U	0.00009 U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1938411-10							
Date Analyzed :			03/09/25 13:34							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U						

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511944-01		
Matrix Spike	: WG2036992-3	**MS Analysis Date**	: 03/06/25 11:02
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00461**	**92**					**70-130**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511944-06		
Matrix Spike	: WG2036992-5	**MS Analysis Date**	: 03/06/25 11:12
Matrix Spike Dup	: WG2036992-6	**MSD Analysis Date**	: 03/06/25 11:16

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00448**	**90**	**0.005**	**0.00462**	**92**	**3**	**70-130**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511944-06		
Matrix Spike	: WG2037773-3	**MS Analysis Date**	: 03/09/25 13:21
Matrix Spike Dup	: WG2037773-4	**MSD Analysis Date**	: 03/09/25 13:25

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	0.00024	0.005	0.00489	93	0.005	0.00498	95	2	75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/06/25 10:59
Dup Sample ID	: WG2036992-4	**DUP Analysis Date**	: 03/06/25 11:06

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036992-2	**LCS Analysis Date**	: 03/06/25 10:56
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	0.00100	0.000950	95.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2037773-2	**LCS Analysis Date**	: 03/09/25 13:15
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	0.00100	0.000990	99.					85-115	20

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2511529-01	03/05/25 20:57	-	25
WG2036992-1	03/05/25 20:57	-	25
WG2036992-2	03/05/25 20:57	-	25
WG2036992-3	03/05/25 20:57	-	25
WG2036992-4	03/05/25 20:57	-	25
WG2036992-5	03/05/25 20:57	-	25
WG2036992-6	03/05/25 20:57	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2511529-01	03/07/25 13:41	-	25
WG2037773-1	03/07/25 13:41	-	25
WG2037773-2	03/07/25 13:41	-	25
WG2037773-3	03/07/25 13:41	-	25
WG2037773-4	03/07/25 13:41	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 03/06/25 06:34	**End Date**	: 03/06/25 12:20

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1937475-1 ICV	1	06:34:27	X
R1937475-2 ICB	1	06:37:45	X
R1937475-3 CCV	1	08:12:54	X
R1937475-4 CCB	1	08:16:14	X
R1937475-5 CCV	1	08:54:02	X
R1937475-6 CCB	1	08:57:20	X
R1937475-7 CCV	1	09:36:10	X
R1937475-8 CCB	1	09:39:29	X
R1937475-9 CCV	1	10:15:48	X
R1937475-10 CCB	1	10:19:05	X
WG2036992-1 BLANK	1	10:52:58	X
WG2036992-2 LCS	1	10:56:16	X
WG2036992-3 MS	1	11:02:51	X
WG2036992-4 DUP	1	11:06:08	X
WG2036992-5 MS	1	11:12:45	X
WG2036992-6 MSD	1	11:16:03	X
R1937475-11 CCV	1	11:22:39	X
R1937475-12 CCB	1	11:25:57	X
L2511529-01	1	11:29:15	X
R1937475-13 CCV	1	12:17:04	X
R1937475-14 CCB	1	12:20:22	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 03/09/25 10:29	**End Date**	: 03/09/25 13:34

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1938411-1 ICV	1	10:29:46	X
R1938411-2 ICB	1	10:33:06	X
R1938411-3 CCV	1	11:32:45	X
R1938411-4 CCB	1	11:36:05	X
R1938411-5 CCV	1	12:12:27	X
R1938411-6 CCB	1	12:15:45	X
R1938411-7 CCV	1	12:52:03	X
R1938411-8 CCB	1	12:55:21	X
WG2037773-1 BLANK	1	13:11:51	X
WG2037773-2 LCS	1	13:15:08	X
WG2037773-3 MS	1	13:21:43	X
WG2037773-4 MSD	1	13:25:01	X
L2511529-01	1	13:28:19	X
R1938411-9 CCV	1	13:31:37	X
R1938411-10 CCB	1	13:34:55	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

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Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

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Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

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

Title :
Date : 03/06/2025
Name :

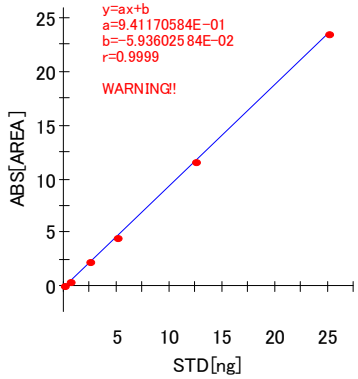
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0378	0.1032	-	03/06/2025 06:14	JWN,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.4755	0.5683	13.7	03/06/2025 06:17	JWN,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.2844	2.4903	0.4	03/06/2025 06:20	JWN,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.5271	4.8731	2.5	03/06/2025 06:24	JWN,NIC3
5	5.000	2.500	2.500	2.500	12.500	11.5925	12.3802	1.0	03/06/2025 06:27	JWN,NIC3
6	10.000	2.500	2.500	2.500	25.000	23.5498	25.0849	0.3	03/06/2025 06:30	JWN,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.2447	7.7606	3.104	-	03/06/2025 06:34	JWN,NIC3
2	ICB	2.500	2.500	2.500	0.0422	0.1079	0.043	-	03/06/2025 06:37	JWN,NIC3
3	wg2036576-1 wg2036576	2.500	2.500	2.500	0.0185	0.0827	0.033	-	03/06/2025 07:39	JWN,NIC3
4	xwg2036576-2 wg2036576	2.500	2.500	2.500	1.7364	1.9080	0.763	-	03/06/2025 07:42	JWN,NIC3
5	I2511436-06 wg2036576	2.500	2.500	2.500	0.0251	0.0897	0.036	-	03/06/2025 07:46	JWN,NIC3
6	wg2036576-3 wg2036576	2.500	2.500	2.500	10.6933	11.4248	4.570	-	03/06/2025 07:49	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg2036576-4 wg2036576	2.500	2.500	2.500	10.3889	11.1013	4.441	-	03/06/2025 07:52	JWN,NIC3
8	I2511180-01 wg2036576	2.500	2.500	2.500	0.0238	0.0884	0.035	-	03/06/2025 07:56	JWN,NIC3
9	I2511180-02 wg2036576	2.500	2.500	2.500	0.0192	0.0835	0.033	-	03/06/2025 07:59	JWN,NIC3
10	I2511436-01 wg2036576	2.500	2.500	2.500	0.0242	0.0888	0.036	-	03/06/2025 08:02	JWN,NIC3
11	I2511436-02 wg2036576	2.500	2.500	2.500	0.0243	0.0889	0.036	-	03/06/2025 08:06	JWN,NIC3
12	I2511436-03 wg2036576	2.500	2.500	2.500	0.0254	0.0901	0.036	-	03/06/2025 08:09	JWN,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	11.5902	12.3777	4.951	99.0	03/06/2025 08:12	JWN,NIC3
14	Check Blank	2.500	2.500	2.500	0.0468	0.1128	0.045	-	03/06/2025 08:16	JWN,NIC3
15	I2511436-04 wg2036576	2.500	2.500	2.500	0.0255	0.0902	0.036	-	03/06/2025 08:19	JWN,NIC3
16	I2511436-05 wg2036576	2.500	2.500	2.500	0.0252	0.0898	0.036	-	03/06/2025 08:22	JWN,NIC3
17	I2511436-07 wg2036576	2.500	2.500	2.500	0.0238	0.0884	0.035	-	03/06/2025 08:26	JWN,NIC3
18	I2511436-08 wg2036576	2.500	2.500	2.500	0.0408	0.1064	0.043	-	03/06/2025 08:29	JWN,NIC3
19	I2511436-09 wg2036576	2.500	2.500	2.500	0.0311	0.0961	0.038	-	03/06/2025 08:32	JWN,NIC3
20	I2511436-10 wg2036576	2.500	2.500	2.500	0.0427	0.1084	0.043	-	03/06/2025 08:36	JWN,NIC3
21	I2511436-11 wg2036576	2.500	2.500	2.500	0.0284	0.0932	0.037	-	03/06/2025 08:39	JWN,NIC3
22	wg2036576-2 wg2036576	2.500	2.500	2.500	2.1655	2.3639	0.946	-	03/06/2025 08:44	JWN,NIC3
23	I2511436-13 wg2036576	2.500	2.500	2.500	0.0257	0.0904	0.036	-	03/06/2025 08:47	JWN,NIC3
24	I2511436-14 wg2036576	2.500	2.500	2.500	0.0262	0.0909	0.036	-	03/06/2025 08:50	JWN,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	11.5275	12.3111	4.924	98.5	03/06/2025 08:54	JWN,NIC3
26	Check Blank	2.500	2.500	2.500	0.0485	0.1146	0.046	-	03/06/2025 08:57	JWN,NIC3
27	I2511436-15 wg2036576	2.500	2.500	2.500	0.0270	0.0918	0.037	-	03/06/2025 09:00	JWN,NIC3
28	I2511436-12 wg2036576	2.500	2.500	2.500	0.0283	0.0931	0.037	-	03/06/2025 09:03	JWN,NIC3
29	WG2036913-1 WG2036913	2.500	2.500	2.500	0.0187	0.0829	0.033	-	03/06/2025 09:09	JWN,NIC3
30	WG2036913-2 WG2036913	2.500	2.500	2.500	2.1335	2.3299	0.932	-	03/06/2025 09:13	JWN,NIC3
31	L2511436-06 WG2036913	2.500	2.500	2.500	0.0279	0.0927	0.037	-	03/06/2025 09:16	JWN,NIC3
32	WG2036913-3 WG2036913	2.500	2.500	2.500	10.5988	11.3244	4.530	-	03/06/2025 09:19	JWN,NIC3
33	WG2036913-4 WG2036913	2.500	2.500	2.500	10.7134	11.4461	4.578	-	03/06/2025 09:22	JWN,NIC3
34	L2511436-01 WG2036913	2.500	2.500	2.500	0.0301	0.0951	0.038	-	03/06/2025 09:26	JWN,NIC3
35	L2511436-02 WG2036913	2.500	2.500	2.500	0.0278	0.0926	0.037	-	03/06/2025 09:29	JWN,NIC3
36	L2511436-03 WG2036913	2.500	2.500	2.500	0.0307	0.0957	0.038	-	03/06/2025 09:32	JWN,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	11.5483	12.3332	4.933	98.7	03/06/2025 09:36	JWN,NIC3
38	Check Blank	2.500	2.500	2.500	0.0478	0.1139	0.046	-	03/06/2025 09:39	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2511436-04 WG2036913	2.500	2.500	2.500	0.0285	0.0934	0.037	-	03/06/2025 09:42	JWN,NIC3
40	L2511436-05 WG2036913	2.500	2.500	2.500	0.0288	0.0937	0.037	-	03/06/2025 09:46	JWN,NIC3
41	L2511436-07 WG2036913	2.500	2.500	2.500	0.0277	0.0925	0.037	-	03/06/2025 09:49	JWN,NIC3
42	L2511436-08 WG2036913	2.500	2.500	2.500	0.0298	0.0947	0.038	-	03/06/2025 09:52	JWN,NIC3
43	L2511436-09 WG2036913	2.500	2.500	2.500	0.0310	0.0960	0.038	-	03/06/2025 09:56	JWN,NIC3
44	L2511436-10 WG2036913	2.500	2.500	2.500	0.0330	0.0981	0.039	-	03/06/2025 09:59	JWN,NIC3
45	L2511436-11 WG2036913	2.500	2.500	2.500	0.0313	0.0963	0.039	-	03/06/2025 10:02	JWN,NIC3
46	L2511436-12 WG2036913	2.500	2.500	2.500	0.0305	0.0955	0.038	-	03/06/2025 10:05	JWN,NIC3
47	L2511436-13 WG2036913	2.500	2.500	2.500	0.0278	0.0926	0.037	-	03/06/2025 10:09	JWN,NIC3
48	L2511436-14 WG2036913	2.500	2.500	2.500	0.0273	0.0921	0.037	-	03/06/2025 10:12	JWN,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	11.7112	12.5063	5.003	100.1	03/06/2025 10:15	JWN,NIC3
50	Check Blank	2.500	2.500	2.500	0.0483	0.1144	0.046	-	03/06/2025 10:19	JWN,NIC3
51	L2511436-15 WG2036913	2.500	2.500	2.500	0.0273	0.0921	0.037	-	03/06/2025 10:22	JWN,NIC3
52	wg2036992-1 wg2036992	2.500	2.500	2.500	0.0238	0.0884	0.035	-	03/06/2025 10:52	JWN,NIC3
53	wg2036992-2 wg2036992	2.500	2.500	2.500	2.1760	2.3751	0.950	-	03/06/2025 10:56	JWN,NIC3
54	I2511944-01 wg2036992	2.500	2.500	2.500	0.0240	0.0886	0.035	-	03/06/2025 10:59	JWN,NIC3
55	wg2036992-3 wg2036992	2.500	2.500	2.500	10.8007	11.5389	4.616	-	03/06/2025 11:02	JWN,NIC3
56	wg2036992-4 wg2036992	2.500	2.500	2.500	0.0251	0.0897	0.036	-	03/06/2025 11:06	JWN,NIC3
57	I2511944-06 wg2036992	2.500	2.500	2.500	0.0255	0.0902	0.036	-	03/06/2025 11:09	JWN,NIC3
58	wg2036992-5 wg2036992	2.500	2.500	2.500	10.4898	11.2086	4.483	-	03/06/2025 11:12	JWN,NIC3
59	wg2036992-6 wg2036992	2.500	2.500	2.500	10.8232	11.5628	4.625	-	03/06/2025 11:16	JWN,NIC3
60	I2511426-02 wg2036992	2.500	2.500	2.500	0.0327	0.0978	0.039	-	03/06/2025 11:19	JWN,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	11.5503	12.3353	4.934	98.7	03/06/2025 11:22	JWN,NIC3
62	Check Blank	2.500	2.500	2.500	0.0500	0.1162	0.046	-	03/06/2025 11:25	JWN,NIC3
63	I2511529-01 wg2036992	2.500	2.500	2.500	0.0295	0.0944	0.038	-	03/06/2025 11:29	JWN,NIC3
64	I2511944-02 wg2036992	2.500	2.500	2.500	0.0367	0.1021	0.041	-	03/06/2025 11:32	JWN,NIC3
65	I2511944-03 wg2036992	2.500	2.500	2.500	0.0338	0.0990	0.040	-	03/06/2025 11:35	JWN,NIC3
66	I2511944-04 wg2036992	2.500	2.500	2.500	0.0293	0.0942	0.038	-	03/06/2025 11:39	JWN,NIC3
67	I2511944-05 wg2036992	2.500	2.500	2.500	0.0264	0.0911	0.036	-	03/06/2025 11:42	JWN,NIC3
68	I2511944-07 wg2036992	2.500	2.500	2.500	0.0265	0.0912	0.036	-	03/06/2025 11:45	JWN,NIC3
69	I2511944-08 wg2036992	2.500	2.500	2.500	0.0289	0.0938	0.038	-	03/06/2025 11:49	JWN,NIC3
70	I2511944-09 wg2036992	2.500	2.500	2.500	0.0280	0.0928	0.037	-	03/06/2025 11:52	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	Check STD(5ug/L)	2.500	2.500	2.500	11.7556	12.5535	5.021	100.4	03/06/2025 12:17	JWN,NIC3
72	Check Blank	2.500	2.500	2.500	0.0499	0.1161	0.046	-	03/06/2025 12:20	JWN,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	11.6336	12.4238	4.970	99.4	03/06/2025 15:08	JWN,NIC3
74	Check Blank	2.500	2.500	2.500	0.0419	0.1076	0.043	-	03/06/2025 15:11	JWN,NIC3
75	WG2036929-1 WG2036929	2.500	2.500	2.500	0.0147	0.0787	0.031	-	03/06/2025 15:25	JWN,NIC3
76	WG2036929-2 WG2036929	2.500	2.500	2.500	2.1574	2.3553	0.942	-	03/06/2025 15:29	JWN,NIC3
77	L2511137-01 WG2036929	2.500	2.500	2.500	0.0117	0.0755	0.030	-	03/06/2025 15:32	JWN,NIC3
78	WG2036929-3 WG2036929	2.500	2.500	2.500	10.4184	11.1327	4.453	-	03/06/2025 15:35	JWN,NIC3
79	WG2036929-4 WG2036929	2.500	2.500	2.500	0.0156	0.0796	0.032	-	03/06/2025 15:39	JWN,NIC3
80	L2511137-02 WG2036929	2.500	2.500	2.500	0.0180	0.0822	0.033	-	03/06/2025 15:42	JWN,NIC3
81	L2511137-03 WG2036929	2.500	2.500	2.500	0.0151	0.0791	0.032	-	03/06/2025 15:45	JWN,NIC3
82	L2511137-04 WG2036929	2.500	2.500	2.500	0.0219	0.0863	0.035	-	03/06/2025 15:49	JWN,NIC3
83	Check STD(5ug/L)	2.500	2.500	2.500	11.8270	12.6293	5.052	101.0	03/06/2025 15:52	JWN,NIC3
84	Check Blank	2.500	2.500	2.500	0.0392	0.1047	0.042	-	03/06/2025 15:55	JWN,NIC3
85	L2511137-05 WG2036929	2.500	2.500	2.500	0.0171	0.0812	0.032	-	03/06/2025 15:59	JWN,NIC3
86	L2511137-06 WG2036929	2.500	2.500	2.500	0.0173	0.0815	0.033	-	03/06/2025 16:02	JWN,NIC3
87	L2511137-07 WG2036929	2.500	2.500	2.500	0.0181	0.0823	0.033	-	03/06/2025 16:05	JWN,NIC3
88	L2511137-08 WG2036929	2.500	2.500	2.500	0.0218	0.0862	0.034	-	03/06/2025 16:09	JWN,NIC3
89	L2511137-09 WG2036929	2.500	2.500	2.500	0.0228	0.0873	0.035	-	03/06/2025 16:12	JWN,NIC3
90	L2511137-10 WG2036929	2.500	2.500	2.500	0.0212	0.0856	0.034	-	03/06/2025 16:15	JWN,NIC3
91	L2511137-11 WG2036929	2.500	2.500	2.500	0.0206	0.0850	0.034	-	03/06/2025 16:19	JWN,NIC3
92	L2511137-12 WG2036929	2.500	2.500	2.500	0.0234	0.0879	0.035	-	03/06/2025 16:22	JWN,NIC3
93	L2511137-13 WG2036929	2.500	2.500	2.500	0.0223	0.0868	0.035	-	03/06/2025 16:25	JWN,NIC3
94	L2511137-14 WG2036929	2.500	2.500	2.500	0.0199	0.0842	0.034	-	03/06/2025 16:29	JWN,NIC3
95	Check STD(5ug/L)	2.500	2.500	2.500	11.6013	12.3895	4.956	99.1	03/06/2025 16:32	JWN,NIC3
96	Check Blank	2.500	2.500	2.500	0.0443	0.1101	0.044	-	03/06/2025 16:35	JWN,NIC3
97	L2511137-15 WG2036929	2.500	2.500	2.500	0.0213	0.0857	0.034	-	03/06/2025 16:39	JWN,NIC3
98	L2511137-16 WG2036929	2.500	2.500	2.500	0.0227	0.0872	0.035	-	03/06/2025 16:42	JWN,NIC3
99	L2511137-17 WG2036929	2.500	2.500	2.500	0.0285	0.0934	0.037	-	03/06/2025 16:45	JWN,NIC3
100	L2511137-18 WG2036929	2.500	2.500	2.500	0.0235	0.0880	0.035	-	03/06/2025 16:49	JWN,NIC3
101	L2511137-19 WG2036929	2.500	2.500	2.500	0.0240	0.0886	0.035	-	03/06/2025 16:52	JWN,NIC3
102	L2511137-20 WG2036929	2.500	2.500	2.500	0.0225	0.0870	0.035	-	03/06/2025 16:55	JWN,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	Check STD(5ug/L)	2.500	2.500	2.500	11.5429	12.3275	4.931	98.6	03/06/2025 16:58	JWN,NIC3
104	Check Blank	2.500	2.500	2.500	0.0453	0.1112	0.044	-	03/06/2025 17:02	JWN,NIC3

Title :
Date : 3/9/2025
Name :

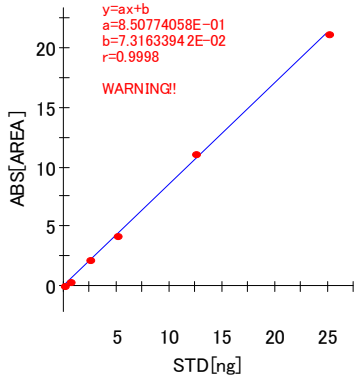
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0198	-0.0627	-	03/09/2025 10:02	CME,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.4366	0.4272	14.6	03/09/2025 10:06	CME,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.1802	2.4766	0.9	03/09/2025 10:09	CME,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.2821	4.9472	1.1	03/09/2025 10:12	CME,NIC1
5	5.000	2.500	2.500	2.500	12.500	11.043	12.8948	3.2	03/09/2025 10:16	CME,NIC1
6	10.000	2.500	2.500	2.500	25.000	21.186	24.8170	0.7	03/09/2025 10:19	CME,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	6.7318	7.8266	3.131	-	03/09/2025 10:29	CME,NIC1
2	ICB	2.500	2.500	2.500	0.0331	-0.0471	-0.019	-	03/09/2025 10:33	CME,NIC1
3	WG2037771-1 WG2037771	2.500	2.500	2.500	0.1551	0.0963	0.039	-	03/09/2025 10:59	CME,NIC1
4	WG2037771-2 WG2037771	2.500	2.500	2.500	1.9752	2.2357	0.894	-	03/09/2025 11:02	CME,NIC1
5	WG2037771-3 WG2037771	2.500	2.500	2.500	2.1527	2.4443	0.978	-	03/09/2025 11:06	CME,NIC1
6	I2512164-01 WG2037771	2.500	2.500	2.500	0.0691	-0.0048	-0.002	-	03/09/2025 11:09	CME,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG2037929-1 WG2037929	2.500	2.500	2.500	0.0382	-0.0411	-0.016	-	03/09/2025 11:12	CME,NIC1
8	WG2037929-2 WG2037929	2.500	2.500	2.500	2.0862	2.3661	0.946	-	03/09/2025 11:16	CME,NIC1
9	I2512815-01 WG2037929	2.500	2.500	2.500	0.3290	0.3007	0.120	-	03/09/2025 11:19	CME,NIC1
10	WG2037929-3 WG2037929	2.500	2.500	2.500	10.5221	12.2817	4.913	-	03/09/2025 11:22	CME,NIC1
11	WG2037929-4 WG2037929	2.500	2.500	2.500	0.3260	0.2972	0.119	-	03/09/2025 11:26	CME,NIC1
12	WG2037350-1 WG2037350	2.500	2.500	2.500	0.0347	-0.0452	-0.018	-	03/09/2025 11:29	CME,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	11.1772	13.0517	5.221	104.4	03/09/2025 11:32	CME,NIC1
14	Check Blank	2.500	2.500	2.500	0.0328	-0.0474	-0.019	-	03/09/2025 11:36	CME,NIC1
15	WG2037350-2 WG2037350	2.500	2.500	2.500	2.1871	2.4847	0.994	-	03/09/2025 11:39	CME,NIC1
16	L2511578-01 WG2037350	2.500	2.500	2.500	0.0320	-0.0484	-0.019	-	03/09/2025 11:42	CME,NIC1
17	WG2037350-3 WG2037350	2.500	2.500	2.500	10.8642	12.6838	5.074	-	03/09/2025 11:46	CME,NIC1
18	WG2037350-4 WG2037350	2.500	2.500	2.500	0.0324	-0.0479	-0.019	-	03/09/2025 11:49	CME,NIC1
19	L2511844-14 WG2037350	2.500	2.500	2.500	0.0358	-0.0439	-0.018	-	03/09/2025 11:52	CME,NIC1
20	L2511844-15 WG2037350	2.500	2.500	2.500	0.0625	-0.0125	-0.005	-	03/09/2025 11:55	CME,NIC1
21	HH1510MJR	2.500	2.500	2.500	0.0836	0.0123	0.005	-	03/09/2025 11:59	CME,NIC1
22	WG2037831-1 WG2037831	2.500	2.500	2.500	0.0356	-0.0442	-0.018	-	03/09/2025 12:02	CME,NIC1
23	WG2037831-2 WG2037831	2.500	2.500	2.500	2.1012	2.3838	0.954	-	03/09/2025 12:05	CME,NIC1
24	I2511584-01 WG2037831	2.500	2.500	2.500	0.0442	-0.0340	-0.014	-	03/09/2025 12:09	CME,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	11.0642	12.9189	5.168	103.4	03/09/2025 12:12	CME,NIC1
26	Check Blank	2.500	2.500	2.500	0.0289	-0.0520	-0.021	-	03/09/2025 12:15	CME,NIC1
27	WG2037831-3 WG2037831	2.500	2.500	2.500	10.3111	12.0337	4.813	-	03/09/2025 12:19	CME,NIC1
28	WG2037831-4 WG2037831	2.500	2.500	2.500	0.0394	-0.0397	-0.016	-	03/09/2025 12:22	CME,NIC1
29	I2511584-02 WG2037831	2.500	2.500	2.500	0.0926	0.0228	0.009	-	03/09/2025 12:25	CME,NIC1
30	WG2037463-1 WG2037463	2.500	2.500	2.500	0.0703	-0.0034	-0.001	-	03/09/2025 12:28	CME,NIC1
31	WG2037463-2 WG2037463	2.500	2.500	2.500	2.2358	2.5420	1.017	-	03/09/2025 12:32	CME,NIC1
32	WG2037463-3 WG2037463	2.500	2.500	2.500	2.4045	2.7403	1.096	-	03/09/2025 12:35	CME,NIC1
33	L2511581-01 WG2037463	2.500	2.500	2.500	0.2094	0.1601	0.064	-	03/09/2025 12:38	CME,NIC1
34	L2511581-02 WG2037463	2.500	2.500	2.500	0.1482	0.0882	0.035	-	03/09/2025 12:42	CME,NIC1
35	L2511581-03 WG2037463	2.500	2.500	2.500	0.0928	0.0231	0.009	-	03/09/2025 12:45	CME,NIC1
36	L2511581-04 WG2037463	2.500	2.500	2.500	0.0691	-0.0048	-0.002	-	03/09/2025 12:48	CME,NIC1
37	Check STD(5ug/L)	2.500	2.500	2.500	10.9587	12.7949	5.118	102.4	03/09/2025 12:52	CME,NIC1
38	Check Blank	2.500	2.500	2.500	0.0287	-0.0523	-0.021	-	03/09/2025 12:55	CME,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2511581-05 WG2037463	2.500	2.500	2.500	0.3104	0.2788	0.112	-	03/09/2025 12:58	CME,NIC1
40	L2511581-06 WG2037463	2.500	2.500	2.500	0.0821	0.0105	0.004	-	03/09/2025 13:01	CME,NIC1
41	L2511581-07 WG2037463	2.500	2.500	2.500	0.0844	0.0132	0.005	-	03/09/2025 13:05	CME,NIC1
42	L2511581-08 WG2037463	2.500	2.500	2.500	0.1403	0.0789	0.032	-	03/09/2025 13:08	CME,NIC1
43	wg2037773-1 wg2037773	2.500	2.500	2.500	0.2387	0.1946	0.078	-	03/09/2025 13:11	CME,NIC1
44	wg2037773-2 wg2037773	2.500	2.500	2.500	2.1850	2.4823	0.993	-	03/09/2025 13:15	CME,NIC1
45	L2511944-06 wg2037773	2.500	2.500	2.500	0.5913	0.6090	0.244	-	03/09/2025 13:18	CME,NIC1
46	wg2037773-3 wg2037773	2.500	2.500	2.500	10.4913	12.2455	4.898	-	03/09/2025 13:21	CME,NIC1
47	wg2037773-4 wg2037773	2.500	2.500	2.500	10.6689	12.4542	4.982	-	03/09/2025 13:25	CME,NIC1
48	L2511529-01 wg2037773	2.500	2.500	2.500	0.0313	-0.0492	-0.020	-	03/09/2025 13:28	CME,NIC1
49	Check STD(5ug/L)	2.500	2.500	2.500	11.0730	12.9292	5.172	103.4	03/09/2025 13:31	CME,NIC1
50	Check Blank	2.500	2.500	2.500	0.0276	-0.0536	-0.021	-	03/09/2025 13:34	CME,NIC1
51	L2511944-01 wg2037773	2.500	2.500	2.500	0.2034	0.1531	0.061	-	03/09/2025 13:38	CME,NIC1
52	L2511944-02 wg2037773	2.500	2.500	2.500	0.0963	0.0272	0.011	-	03/09/2025 13:41	CME,NIC1
53	L2511944-03 wg2037773	2.500	2.500	2.500	0.0854	0.0144	0.006	-	03/09/2025 13:44	CME,NIC1
54	L2511944-04 wg2037773	2.500	2.500	2.500	0.0823	0.0107	0.004	-	03/09/2025 13:48	CME,NIC1
55	L2511944-05 wg2037773	2.500	2.500	2.500	0.0681	-0.0060	-0.002	-	03/09/2025 13:51	CME,NIC1
56	L2511944-07 wg2037773	2.500	2.500	2.500	0.0661	-0.0083	-0.003	-	03/09/2025 13:54	CME,NIC1
57	L2511944-08 wg2037773	2.500	2.500	2.500	0.1694	0.1131	0.045	-	03/09/2025 13:58	CME,NIC1
58	L2511944-09 wg2037773	2.500	2.500	2.500	0.1187	0.0535	0.021	-	03/09/2025 14:01	CME,NIC1
59	WG2037330-1 WG2037330	2.500	2.500	2.500	0.0266	-0.0547	-0.022	-	03/09/2025 14:26	CME,NIC1
60	WG2037330-2 WG2037330	2.500	2.500	2.500	2.1150	2.4000	0.960	-	03/09/2025 14:29	CME,NIC1
61	Check STD(5ug/L)	2.500	2.500	2.500	10.9958	12.8385	5.135	102.7	03/09/2025 14:33	CME,NIC1
62	Check Blank	2.500	2.500	2.500	0.0303	-0.0504	-0.020	-	03/09/2025 14:36	CME,NIC1
63	L2511311-01 WG2037330	2.500	2.500	2.500	0.0399	-0.0391	-0.016	-	03/09/2025 14:39	CME,NIC1
64	WG2037330-3 WG2037330	2.500	2.500	2.500	10.6556	12.4386	4.975	-	03/09/2025 14:43	CME,NIC1
65	WG2037330-4 WG2037330	2.500	2.500	2.500	0.0338	-0.0463	-0.019	-	03/09/2025 14:46	CME,NIC1
66	L2510791-01 WG2037330	2.500	2.500	2.500	0.0352	-0.0446	-0.018	-	03/09/2025 14:49	CME,NIC1
67	L2511311-02 WG2037330	2.500	2.500	2.500	0.0820	0.0104	0.004	-	03/09/2025 14:52	CME,NIC1
68	L2511311-03 WG2037330	2.500	2.500	2.500	0.0414	-0.0373	-0.015	-	03/09/2025 14:56	CME,NIC1
69	L2511311-04 WG2037330	2.500	2.500	2.500	0.0660	-0.0084	-0.003	-	03/09/2025 14:59	CME,NIC1
70	L2511452-01 WG2037330	2.500	2.500	2.500	0.0366	-0.0430	-0.017	-	03/09/2025 15:02	CME,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2511972-16 WG2037330	2.500	2.500	2.500	0.0505	-0.0266	-0.011	-	03/09/2025 15:06	CME,NIC1
72	L2511972-17 WG2037330	2.500	2.500	2.500	0.1675	0.1109	0.044	-	03/09/2025 15:09	CME,NIC1
73	Check STD(5ug/L)	2.500	2.500	2.500	11.4021	13.3160	5.326	106.5	03/09/2025 15:12	CME,NIC1
74	Check Blank	2.500	2.500	2.500	0.0301	-0.0506	-0.020	-	03/09/2025 15:16	CME,NIC1
75	L2512000-01 WG2037330	2.500	2.500	2.500	0.0504	-0.0268	-0.011	-	03/09/2025 15:19	CME,NIC1
76	L2512000-02 WG2037330	2.500	2.500	2.500	0.0327	-0.0476	-0.019	-	03/09/2025 15:22	CME,NIC1
77	L2512000-03 WG2037330	2.500	2.500	2.500	1.0414	1.1381	0.455	-	03/09/2025 15:26	CME,NIC1
78	L2512000-04 WG2037330	2.500	2.500	2.500	0.0455	-0.0325	-0.013	-	03/09/2025 15:29	CME,NIC1
79	L2512000-05 WG2037330	2.500	2.500	2.500	0.2508	0.2088	0.084	-	03/09/2025 15:32	CME,NIC1
80	L2512000-06 WG2037330	2.500	2.500	2.500	0.1150	0.0492	0.020	-	03/09/2025 15:35	CME,NIC1
81	L2512000-07 WG2037330	2.500	2.500	2.500	0.2030	0.1526	0.061	-	03/09/2025 15:39	CME,NIC1
82	L2512000-08 WG2037330	2.500	2.500	2.500	0.1870	0.1338	0.054	-	03/09/2025 15:42	CME,NIC1
83	Check STD(5ug/L)	2.500	2.500	2.500	11.3351	13.2373	5.295	105.9	03/09/2025 15:45	CME,NIC1
84	Check Blank	2.500	2.500	2.500	0.0303	-0.0504	-0.020	-	03/09/2025 15:49	CME,NIC1

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

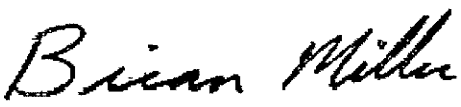
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME	CURVE: WG2036212
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	wg2036576-1 wg2036576	
4	10	xwg2036576-2 wg2036576	
5	11	l2511436-06 wg2036576	
6	12	wg2036576-3 wg2036576	
7	13	wg2036576-4 wg2036576	
8	14	l2511180-01 wg2036576	
9	15	l2511180-02 wg2036576	
10	16	l2511436-01 wg2036576	
11	17	l2511436-02 wg2036576	
12	18	l2511436-03 wg2036576	
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	l2511436-04 wg2036576	
16	22	l2511436-05 wg2036576	
17	23	l2511436-07 wg2036576	
18	24	l2511436-08 wg2036576	
19	25	l2511436-09 wg2036576	
20	26	l2511436-10 wg2036576	
21	27	l2511436-11 wg2036576	
22	28	wg2036576-2 wg2036576	
23	29	l2511436-13 wg2036576	
24	30	l2511436-14 wg2036576	
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	l2511436-15 wg2036576	
28	34	l2511436-12 wg2036576	
29	35	WG2036913-1 WG2036913	
30	36	WG2036913-2 WG2036913	
31	37	L2511436-06 WG2036913	
32	38	WG2036913-3 WG2036913	
33	39	WG2036913-4 WG2036913	
34	40	L2511436-01 WG2036913	
35	41	L2511436-02 WG2036913	
36	42	L2511436-03 WG2036913	
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	L2511436-04 WG2036913
40	46	L2511436-05 WG2036913
41	47	L2511436-07 WG2036913
42	48	L2511436-08 WG2036913
43	49	L2511436-09 WG2036913
44	50	L2511436-10 WG2036913
45	51	L2511436-11 WG2036913
46	52	L2511436-12 WG2036913
47	53	L2511436-13 WG2036913
48	54	L2511436-14 WG2036913
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	L2511436-15 WG2036913
52	58	wg2036992-1 wg2036992
53	59	wg2036992-2 wg2036992
54	60	l2511944-01 wg2036992
55	61	wg2036992-3 wg2036992
56	62	wg2036992-4 wg2036992
57	63	l2511944-06 wg2036992
58	64	wg2036992-5 wg2036992
59	65	wg2036992-6 wg2036992
60	66	l2511426-02 wg2036992
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	l2511529-01 wg2036992
64	70	l2511944-02 wg2036992
65	71	l2511944-03 wg2036992
66	72	l2511944-04 wg2036992
67	73	l2511944-05 wg2036992
68	74	l2511944-07 wg2036992
69	75	l2511944-08 wg2036992
70	76	l2511944-09 wg2036992
71	79	Check STD(5ug/L)
72	80	Check Blank
73	1	Check STD(5ug/L)
74	2	Check Blank
75	3	WG2036929-1 WG2036929
76	4	WG2036929-2 WG2036929
77	5	L2511137-01 WG2036929
78	6	WG2036929-3 WG2036929
79	7	WG2036929-4 WG2036929
80	8	L2511137-02 WG2036929
81	9	L2511137-03 WG2036929

82	10	L2511137-04 WG2036929
83	11	Check STD(5ug/L)
84	12	Check Blank
85	13	L2511137-05 WG2036929
86	14	L2511137-06 WG2036929
87	15	L2511137-07 WG2036929
88	16	L2511137-08 WG2036929
89	17	L2511137-09 WG2036929
90	18	L2511137-10 WG2036929
91	19	L2511137-11 WG2036929
92	20	L2511137-12 WG2036929
93	21	L2511137-13 WG2036929
94	22	L2511137-14 WG2036929
95	23	Check STD(5ug/L)
96	24	Check Blank
97	25	L2511137-15 WG2036929
98	26	L2511137-16 WG2036929
99	27	L2511137-17 WG2036929
100	28	L2511137-18 WG2036929
101	29	L2511137-19 WG2036929
102	30	L2511137-20 WG2036929
103	35	Check STD(5ug/L)
104	36	Check Blank

No.	Sample No.	NAME	CURVE:WG2037537
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	WG2037771-1	WG2037771
4	10	WG2037771-2	WG2037771
5	11	WG2037771-3	WG2037771
6	12	l2512164-01	WG2037771
7	13	WG2037929-1	WG2037929
8	14	WG2037929-2	WG2037929
9	15	l2512815-01	WG2037929
10	16	WG2037929-3	WG2037929
11	17	WG2037929-4	WG2037929
12	18	WG2037350-1	WG2037350
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	WG2037350-2	WG2037350
16	22	L2511578-01	WG2037350
17	23	WG2037350-3	WG2037350
18	24	WG2037350-4	WG2037350
19	25	L2511844-14	WG2037350
20	26	L2511844-15	WG2037350
21	27	HH1510MJR	
22	28	WG2037831-1	WG2037831
23	29	WG2037831-2	WG2037831
24	30	l2511584-01	WG2037831
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	WG2037831-3	WG2037831
28	34	WG2037831-4	WG2037831
29	35	l2511584-02	WG2037831
30	36	WG2037463-1	WG2037463
31	37	WG2037463-2	WG2037463
32	38	WG2037463-3	WG2037463
33	39	L2511581-01	WG2037463
34	40	L2511581-02	WG2037463
35	41	L2511581-03	WG2037463
36	42	L2511581-04	WG2037463
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	L2511581-05 WG2037463
40	46	L2511581-06 WG2037463
41	47	L2511581-07 WG2037463
42	48	L2511581-08 WG2037463
43	49	wg2037773-1 wg2037773
44	50	wg2037773-2 wg2037773
45	51	L2511944-06 wg2037773
46	52	wg2037773-3 wg2037773
47	53	wg2037773-4 wg2037773
48	54	L2511529-01 wg2037773
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	L2511944-01 wg2037773
52	58	L2511944-02 wg2037773
53	59	L2511944-03 wg2037773
54	60	L2511944-04 wg2037773
55	61	L2511944-05 wg2037773
56	62	L2511944-07 wg2037773
57	63	L2511944-08 wg2037773
58	64	L2511944-09 wg2037773
59	65	WG2037330-1 WG2037330
60	66	WG2037330-2 WG2037330
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	L2511311-01 WG2037330
64	70	WG2037330-3 WG2037330
65	71	WG2037330-4 WG2037330
66	72	L2510791-01 WG2037330
67	73	L2511311-02 WG2037330
68	74	L2511311-03 WG2037330
69	75	L2511311-04 WG2037330
70	76	L2511452-01 WG2037330
71	77	L2511972-16 WG2037330
72	78	L2511972-17 WG2037330
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	L2512000-01 WG2037330
76	2	L2512000-02 WG2037330
77	3	L2512000-03 WG2037330
78	4	L2512000-04 WG2037330
79	5	L2512000-05 WG2037330
80	6	L2512000-06 WG2037330
81	7	L2512000-07 WG2037330

82	8	L2512000-08 WG2037330
83	9	Check STD(5ug/L)
84	10	Check Blank

METALS ELN REPORT

Workgroup: WG2036992

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24017249	H2SO4	24016430	METALS	METSPIKE	HG25071709 46NRS	METSPIKE	HG25071709 46NRS	320, 344

Additional Reagent/Std	K2O8S2	PS2507210600AJT
	KMnO4	PP2509040809SAM
	NaCl-NH2OH.HCl	HH2509050730JWN
		ICV2508241205CME

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2511426-02 SAMP	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511529-01 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-01 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-02 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-03 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-04 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-05 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-06 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	

METALS ELN REPORT

Workgroup: WG2036992

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2511944-07 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-08 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
L2511944-09 WATER	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
WG2036992-1 BLANK	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	ELN: NDD
WG2036992-2 LCS	03/05/25 20:57	Maisie Mcqueen	25	0.25	03/05/25 20:57	5	94.6	03/05/25 22:57	25	
WG2036992-3 MS	03/05/25 20:57	Maisie Mcqueen	25	1.25	03/05/25 20:57	5	94.6	03/05/25 22:57	25	
WG2036992-4 DUP	03/05/25 20:57	Maisie Mcqueen	25		03/05/25 20:57	5	94.6	03/05/25 22:57	25	
WG2036992-5 MS	03/05/25 20:57	Maisie Mcqueen	25	1.25	03/05/25 20:57	5	94.6	03/05/25 22:57	25	
WG2036992-6 MSD	03/05/25 20:57	Maisie Mcqueen	25	1.25	03/05/25 20:57	5	94.6	03/05/25 22:57	25	

Reported: 10-MAR-25 09:19 AM

METALS ELN REPORT

Workgroup: WG2036992

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

METALS ELN REPORT

Workgroup: WG2037773

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24017249	H2SO4	24016430	METALS	METSPIKE	HG25071709 46NRS	METSPIKE	HG25071709 46NRS	320, 344

Additional Reagent/Std	K2O8S2	PS2509031333AJT
	KMnO4	PP2509040809SAM
	NaCl-NH2OH.HCl	HH2509050730JWN
		ICV2508241205CME

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2511529-01 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-01 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-02 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-03 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-04 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-05 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-06 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-07 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	

Reported: 10-MAR-25 09:19 AM

METALS ELN REPORT

Workgroup: WG2037773

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2511944-08 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
L2511944-09 WATER	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	
WG2037773-1 BLANK	03/07/25 13:41	Nathan Downs	NA	25		03/07/25 13:41	5	95.0	03/07/25 15:41	25	ELN: ADG
WG2037773-2 LCS	03/07/25 13:41	Nathan Downs	NA	25	0.25	03/07/25 13:41	5	95.0	03/07/25 15:41	25	
WG2037773-3 MS	03/07/25 13:41	Nathan Downs	NA	25	1.25	03/07/25 13:41	5	95.0	03/07/25 15:41	25	
WG2037773-4 MSD	03/07/25 13:41	Nathan Downs	NA	25	1.25	03/07/25 13:41	5	95.0	03/07/25 15:41	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 10-MAR-25 09:19 AM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 15:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG2038701.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Sample Raw Data

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 3/10/2025 15:48
Technician: JRO
Work group: WG2038701
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
	L2511529-01	0.207	0.24	1.0	0.24
SAMP	L2511668-02	0.426	5.2	1.0	5.626

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2511529-01	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11D	**Date Received**	: 03/03/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/06/25 19:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320250306-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/06/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.207	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037321-1	**Date Collected**	: NA
Client ID	: WG2037321-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/25 19:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320250306-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/06/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.130	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037321-3	**Date Collected**	: 03/04/25 10:57
Client ID	: WG2037321-3 DUP	**Date Received**	: 03/04/25
Sample Location	:	**Date Analyzed**	: 03/06/25 19:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320250306-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/06/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.333	0.300	0.066	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Original Run Filename: OM_3-6-2025_10-19-55AM.OMN Created: 3/6/2025 10:19:55 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_10-19-55AM.OMN Last Modified: 3/6/2025 10:50:25 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	STD 1	1	S1	10.00000				
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38326				96%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	4.07124				102%
		Known Conc:		100.00000				
	CCB	1	S10	0.00435				
		Known Conc:		100.00000				
	HI ICV 8.0	1	1	8.19782				102%
	LO ICV 1.0	1	2	1.00012				100%
	ICB	1	3	-0.00025				
	WG2037100-1	1	4	0.00110		1.50		
	WG2037100-2	1	5	19.43671		7.50		97%
	LCS LO	1	6	1.86602		1.50		93%
	L2511124-01	1	7	3.10420		1.50		
	WG2037100-4	1	8	7.78332		1.50		117%
	WG2037100-3	1	9	3.39237		1.50		RPD=9%
	L2511124-02	1	10	3.05236		1.50		
X	CCV 0.4000	1	S6	0.44723				112%, RERUN OK
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.10068				
		Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Channel 2 (Ammonia High) - Current View

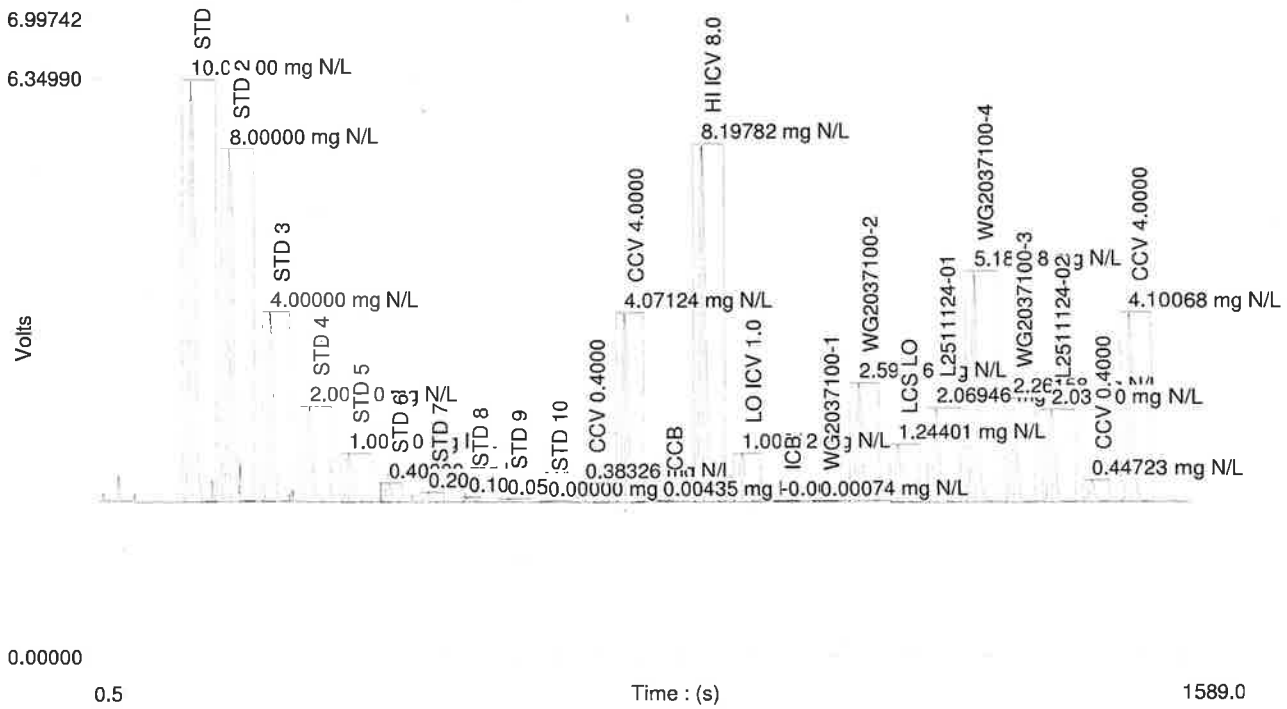
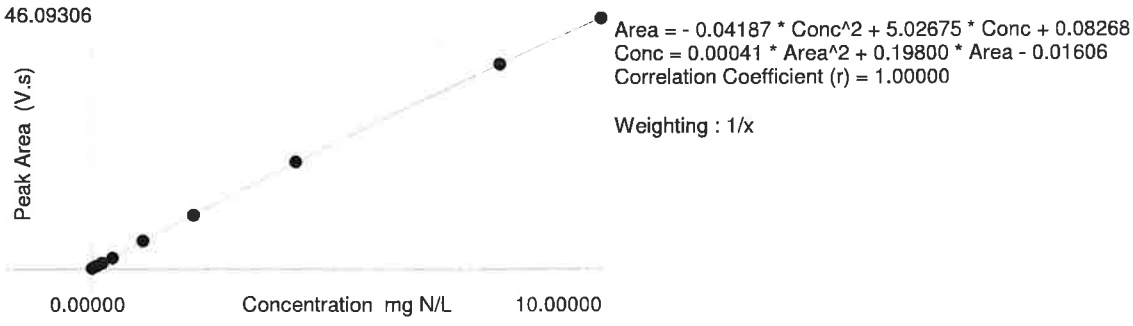


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Original Run Filename: OM_3-6-2025_10-53-47AM.OMN Created: 3/6/2025 10:53:47 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_10-53-47AM.OMN Last Modified: 3/6/2025 11:21:22 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	CCV 0.4000	1	S6	0.40063				100%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	4.15640				104%
		Known Conc:		100.00000				
	CCB	1	S10	0.01354				
		Known Conc:		100.00000				
	L2511124-03	1	11	2.81296		1.50		
	L2511124-04	1	12	12.68059		1.50		
	L2511130-01	1	13	3.72765		1.50		
	L2511130-02	1	14	0.14971		1.50		
	L2511130-03	1	15	4.61432		1.50		
	L2511149-02	1	16	2.05607		7.50		
X	L2511179-07	1	17	25.66113		1.50		
X	L2511262-02	1	18	0.52132		1.50		
	L2511262-03	1	19	0.33447		1.50		
	L2511262-04	1	20	0.11895		1.50		
	CCV 0.4000	1	S6	0.39720				99%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.12949				103%
		Known Conc:		100.00000				
	CCB	1	S10	0.01208				
		Known Conc:		100.00000				
	L2511262-05	1	21	0.07914		1.50		
	L2511262-06	1	22	0.03924		1.50		
	L2511262-07	1	23	0.04526		1.50		
	L2511179-07; 20X	1	17	27.90903		30.00		
	L2511262-02	1	18	0.07375		1.50		
	CCV 0.4000	1	S6	0.38789				97%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.16597				104%
		Known Conc:		100.00000				
	CCB	1	S10	0.01120				
		Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Channel 2 (Ammonia High) - Current View

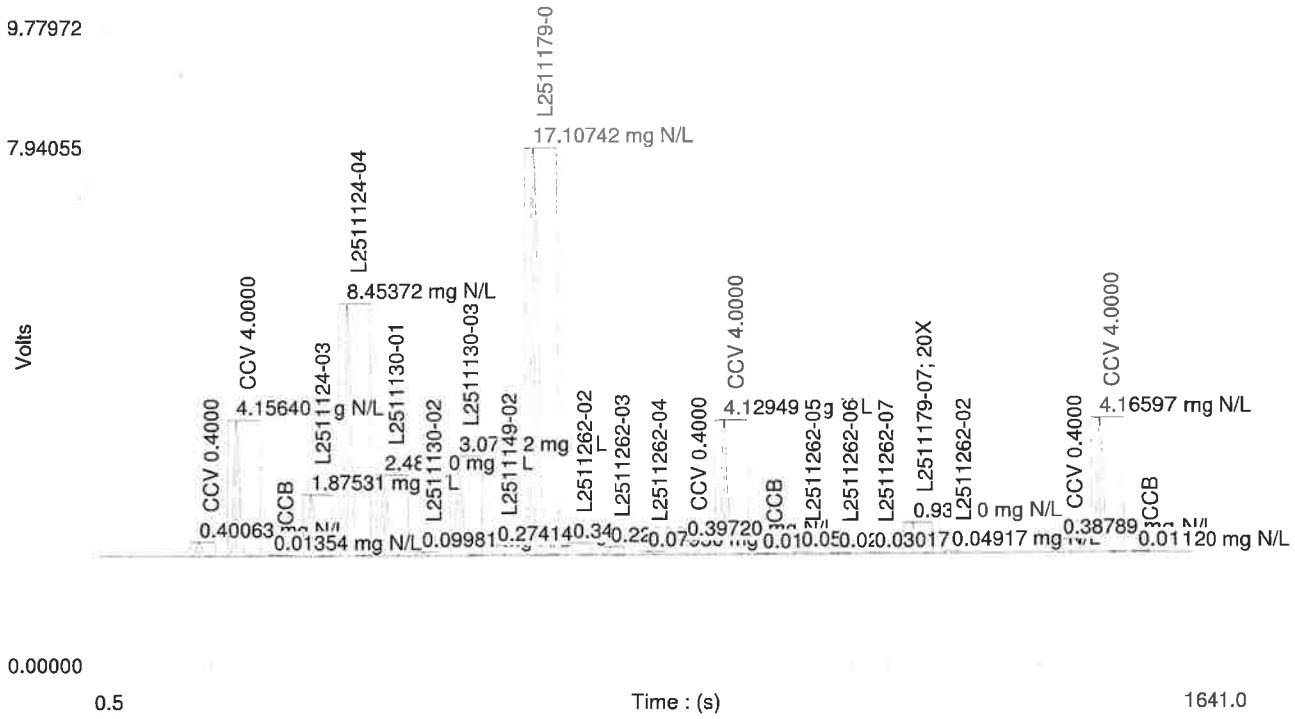
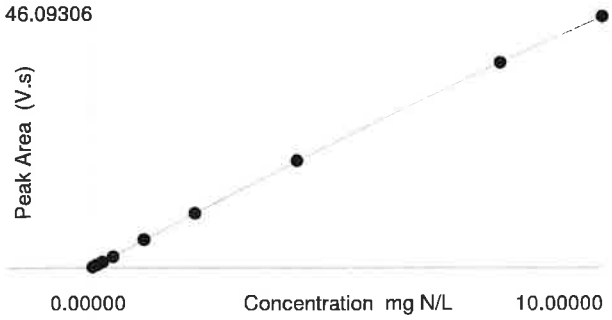


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



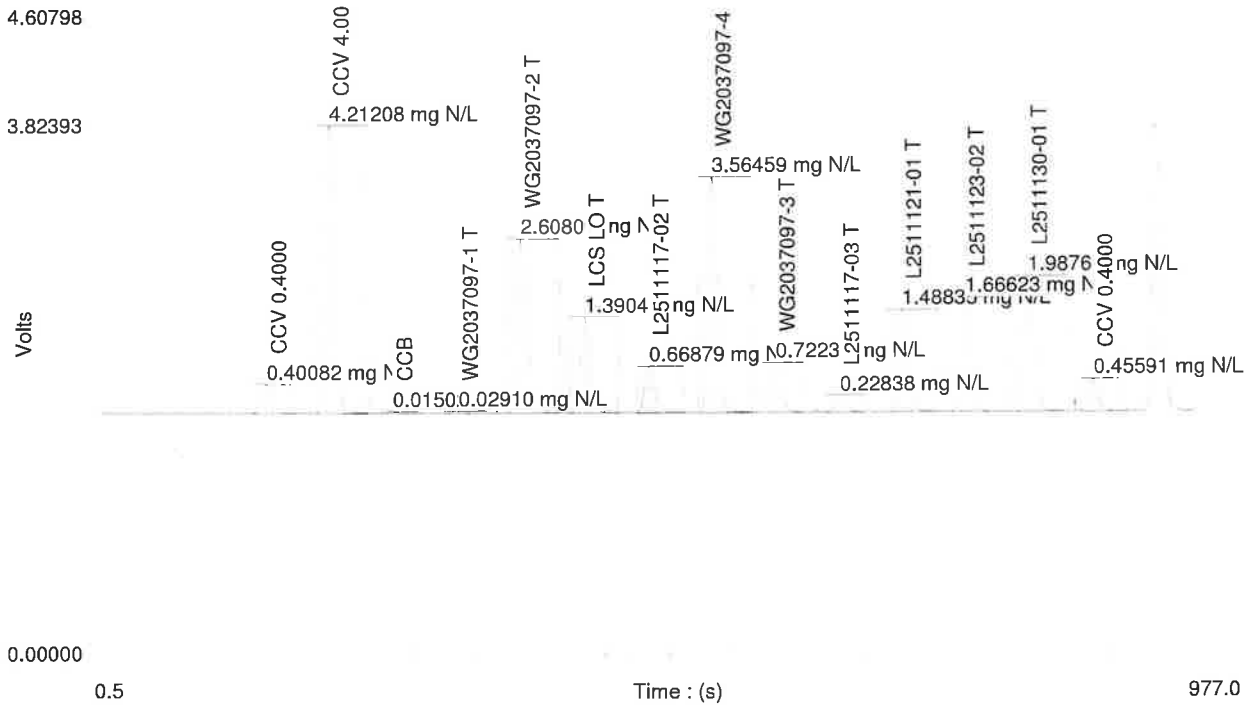
Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Original Run Filename: OM_3-6-2025_01-00-45PM.OMN Created: 3/6/2025 1:00:45 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_01-00-45PM.OMN Last Modified: 3/6/2025 1:17:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
								TRAY B
	CCV 0.4000	1	S6	0.40082				100%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.21208				105%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.01502				
		Known Conc:		100.00000				
	WG2037097-1 T	1	1	0.02910				
	WG2037097-2 T	1	2	39.12063		15.00		98%
	LCS LO T	1	3	4.17145		3.00		104%
	L2511117-02 T	1	4	10.03178		15.00		
	WG2037097-4 T	1	5	53.46888		15.00		109%
	WG2037097-3 T	1	6	10.83515		15.00		RPD=8%
	L2511117-03 T	1	7	3.42571		15.00		
	L2511121-01 T	1	8	4.46506		3.00		
	L2511123-02 T	1	9	4.99868		3.00		
	L2511130-01 T	1	10	5.96297		3.00		
X	CCV 0.4000	1	S6	0.45591				114%, RERUN OK
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View



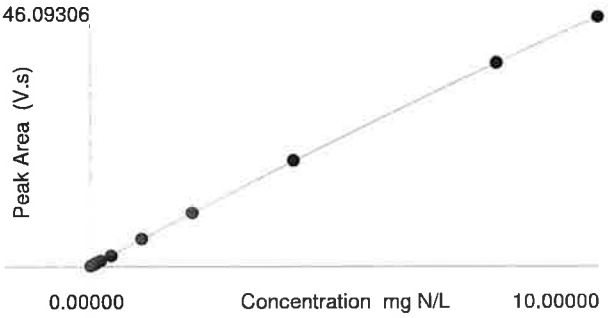
Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



Area = - 0.04187 * Conc^2 + 5.02675 * Conc + 0.08268
Conc = 0.00041 * Area^2 + 0.19800 * Area - 0.01606
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

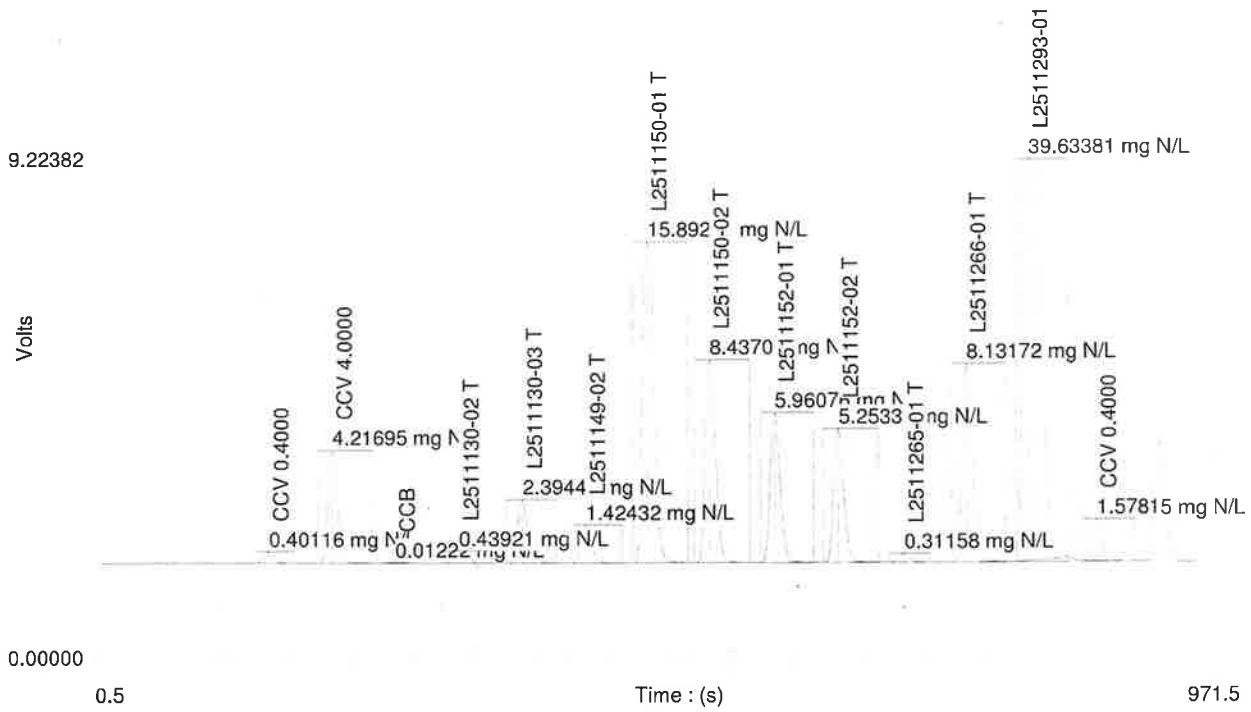
Date : 3/6/2025

Original Run Filename: OM_3-6-2025_01-21-41PM.OMN Created: 3/6/2025 1:21:41 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_01-21-41PM.OMN Last Modified: 3/6/2025 1:38:14 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY B

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.40116				100%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.21695				105%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.01222				
		Known Conc:		100.00000				
X	L2511130-02 T	1	11	1.31763		3.00		
	L2511130-03 T	1	12	7.18334		3.00		
	L2511149-02 T	1	13	21.36481		15.00		
	L2511150-01 T	1	14	47.67702		3.00		
RERUN	L2511150-02 T	1	15	25.31119		3.00		
	L2511152-01 T	1	16	17.88229		3.00		
	L2511152-02 T	1	17	15.75989		3.00		
	L2511265-01 T	1	18	0.93475		3.00		
	L2511266-01 T	1	19	24.39515		3.00		
	L2511293-01 T	1	20	118.90144		3.00		
X	CCV 0.4000	1	S6	1.57815				395%, RERUN FAILED
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View



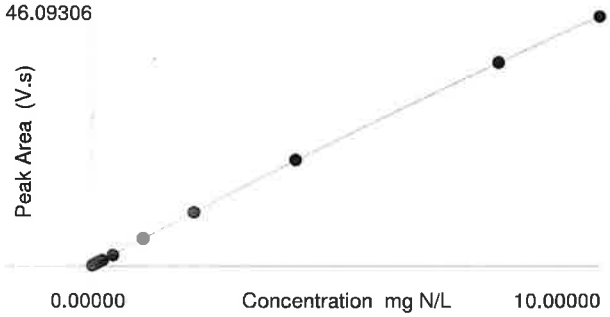
Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



Area = - 0.04187 * Conc^2 + 5.02675 * Conc + 0.08268
Conc = 0.00041 * Area^2 + 0.19800 * Area - 0.01606
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Original Run Filename: OM_3-6-2025_01-59-34PM.OMN Created: 3/6/2025 1:59:34 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_01-59-34PM.OMN Last Modified: 3/6/2025 2:23:17 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY B
CCV 0.4000	1	S6	0.39001				98%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	4.11187				103%
	Known Conc:		100.00000				
CCB	1	S10	0.01600				
	Known Conc:		100.00000				
L2511266-01 T	1	19	23.15096		3.00		
L2511293-01 T; 50X	1	20	654.80890		150.00		
L2511130-02 T	1	11	1.72081		3.00		
L2511130-03 T	1	12	6.88254		3.00		
L2511149-02 T	1	13	20.70970		15.00		
L2511150-01 T; 10X	1	14	~~5.00113~~		~~3.00~~	30	50.0113
L2511150-02 T	1	15	23.54433		3.00		
L2511152-01 T	1	16	17.10967		3.00		
L2511152-02 T	1	17	15.34711		3.00		
L2511265-01 T	1	18	1.01872		3.00		
CCV 0.4000	1	S6	0.42104				105%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.19315				105%
	Known Conc:		100.00000				
CCB	1	S10	0.01426				
	Known Conc:		100.00000				
~~L2511150-02 T~~	~~1~~	~~15~~	~~23.51952~~		~~3.00~~		
~~L2511150-01 T; 10X~~	~~1~~	~~14~~	~~55.61121~~		~~30.00~~		
~~CCV 0.4000~~	~~1~~	~~S6~~	~~0.41484~~				~~104%~~
	~~Known Conc:~~		~~100.00000~~				
~~CCV 4.0000~~	~~1~~	~~S3~~	~~4.25359~~				~~106%~~
	~~Known Conc:~~		~~100.00000~~				
~~CCB~~	~~1~~	~~S10~~	~~0.01054~~				
	~~Known Conc:~~		~~100.00000~~				

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Channel 2 (Ammonia High) - Current View

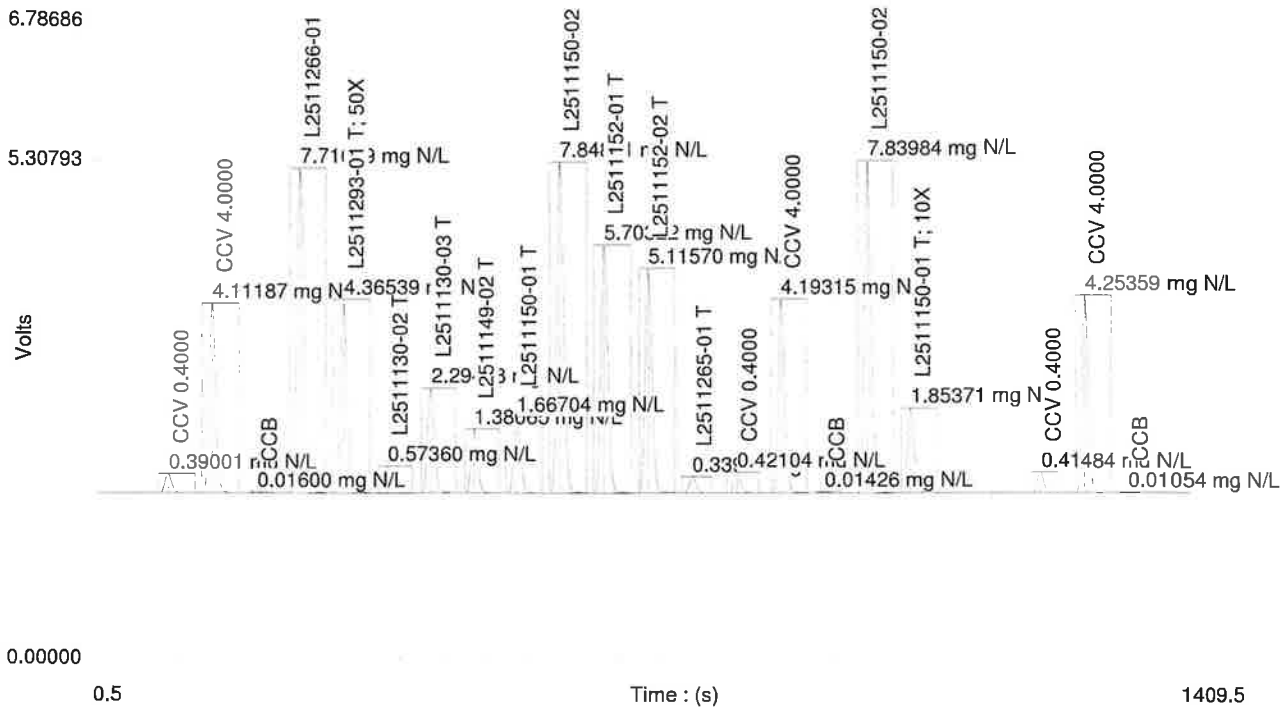
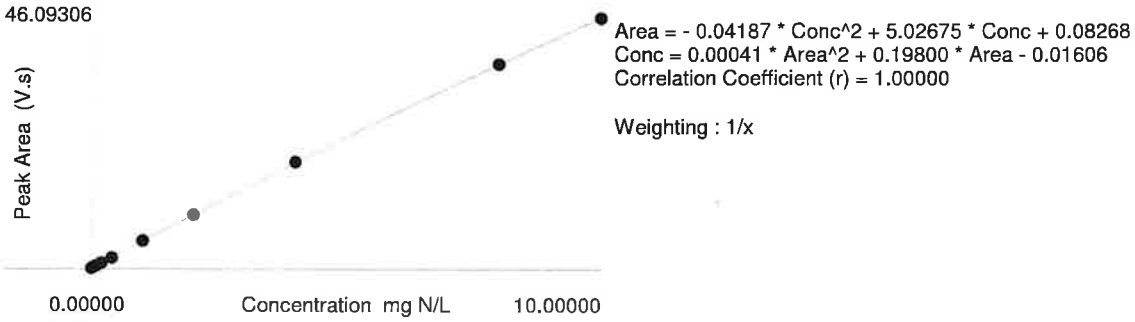


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Original Run Filename: OM_3-6-2025_04-55-13PM.OMN Created: 3/6/2025 4:55:13 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_04-55-13PM.OMN Last Modified: 3/6/2025 5:22:52 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39499	95%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.30703	108%		
	Known Conc:		100.00000			
CCB	1	S10	0.01187			
	Known Conc:		100.00000			
WG2037318-1; BLK 3/6	1	1	-0.00389		1.50	
WG2037318-2; HI LCS; 5X	1	2	20.49081		7.50	103%
LO LCS	1	3	2.02544		1.50	101%
L2511485-01	1	4	0.06755		1.50	
L2511485-02	1	5	0.01413		1.50	
L2511485-03	1	6	0.02895		1.50	
L2511485-04	1	7	0.05385		1.50	
WG2037318-4; 11485.4 MS	1	8	4.52522		1.50	13% NC (LCTHL)
WG2037318-3; 11485.4 DUP	1	9	0.10904		1.50	
L2510986-09	1	10	0.03894		1.50	
CCV 0.4000	1	S6	0.39193	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.25201	106%		
	Known Conc:		100.00000			
CCB	1	S10	0.01094			
	Known Conc:		100.00000			
L2511578-01	1	11	0.05163		1.50	
L2511483-14	1	~~12~~	~~32.88313~~		3.00	
L2511483-15	1	~~13~~	~~7.79523~~		3.00	
L2511483-16	1	~~14~~	~~74.29314~~		3.00	dilution.
L2511483-17	1	~~15~~	~~30.84832~~		1.50	
L2511483-21	1	~~16~~	~~26.51384~~		1.50	
L2511833-01	1	~~17~~	~~21.15861~~		3.00	
L2511833-02	1	18	20.24276		3.00	
L2511833-03	1	19	5.62812		3.00	
L2511833-04	1	20	~~12.51729~~		1.50	
CCV 0.4000	1	S6	0.60124			
	Known Conc:		100.00000			

reinject - OK

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Channel 2 (Ammonia High) - Current View

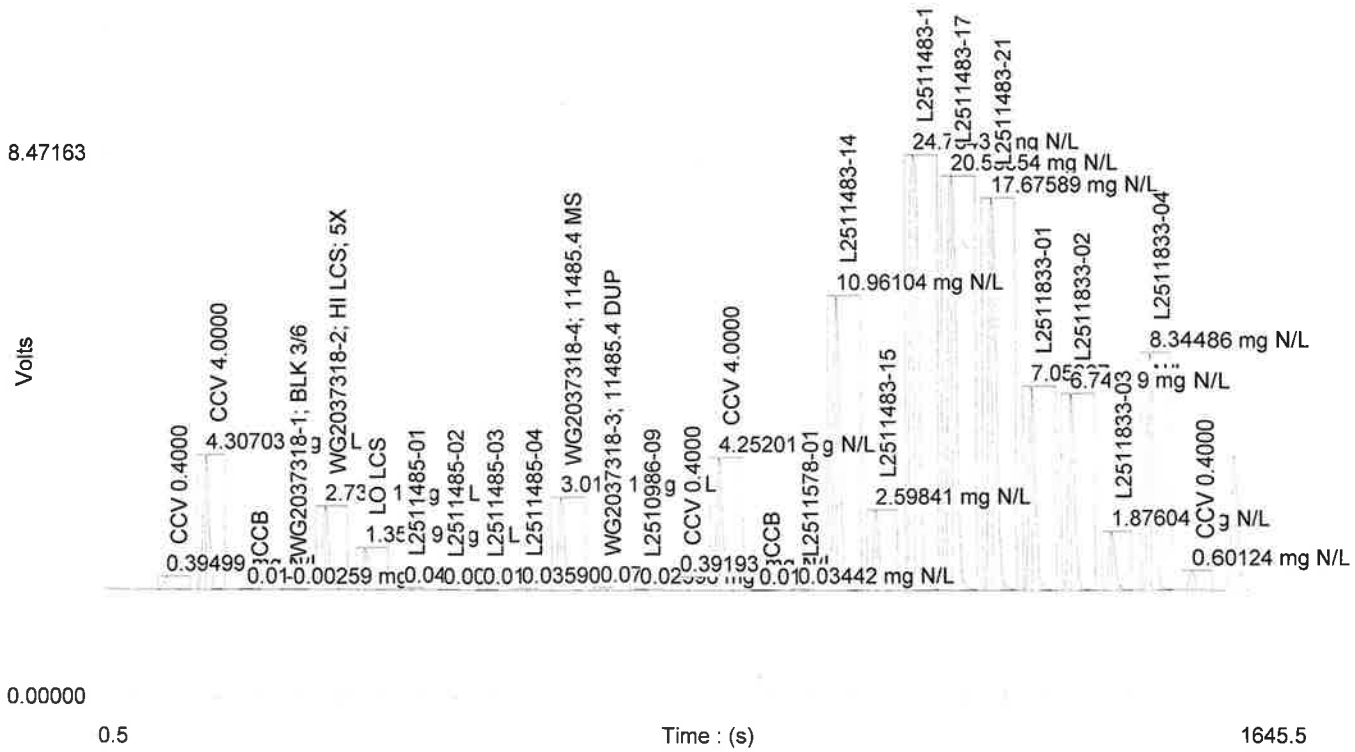
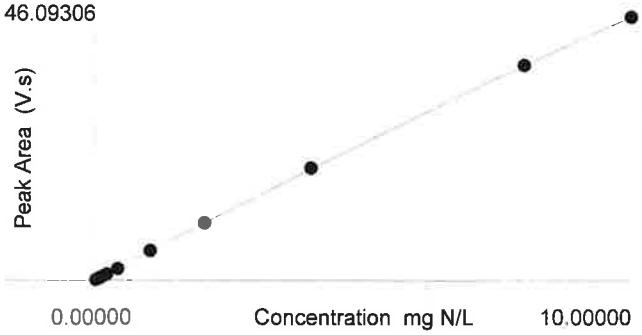


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Original Run Filename: OM_3-6-2025_05-26-39PM.OMN Created: 3/6/2025 5:26:39 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_05-26-39PM.OMN Last Modified: 3/6/2025 5:53:15 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40454	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.25077	106%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02294			
	Known Conc:		100.00000			
L2511833-05	1	21	4.90696		1.50	
L2511833-06	1	22	3.36404		1.50	
L2511833-07	1	23	5.01809		1.50	
L2511833-08	1	24	8.83919		7.50	
WG2037319-4; 11833.8 MS	1	25	32.32599		7.50	117%
WG2037319-3; 11833.8 DUP	1	26	9.58612		7.50	8%
L2511483-22	1	~~27~~	~~0.17983~~		~~1.50~~	replicate
L2511483-14; 10X	1	28	31.58152		30.00	
L2511483-15	1	29	18.05619		7.50	
L2511483-16; 25X	1	30	130.45291		75.00	
CCV 0.4000	1	S6	0.43399	109%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.22823	106%		
	Known Conc:		100.00000			
CCB	1	S10	0.01759			
	Known Conc:		100.00000			
L2511483-17; 10X	1	31	40.54539		15.00	
L2511483-21; 10X	1	32	32.14164		15.00	
L2511833-01	1	33	20.02308		3.00	
L2511483-22	1	~~27~~	~~0.33131~~		~~1.50~~	
L2511483-22	1	~~27~~	~~0.13059~~		~~1.50~~	
CCV 0.4000	1	S6	0.39396	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.20768	105%		
	Known Conc:		100.00000			
CCB	1	S10	0.01480			
	Known Conc:		100.00000			

D2

MS: 20ppm

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Channel 2 (Ammonia High) - Current View

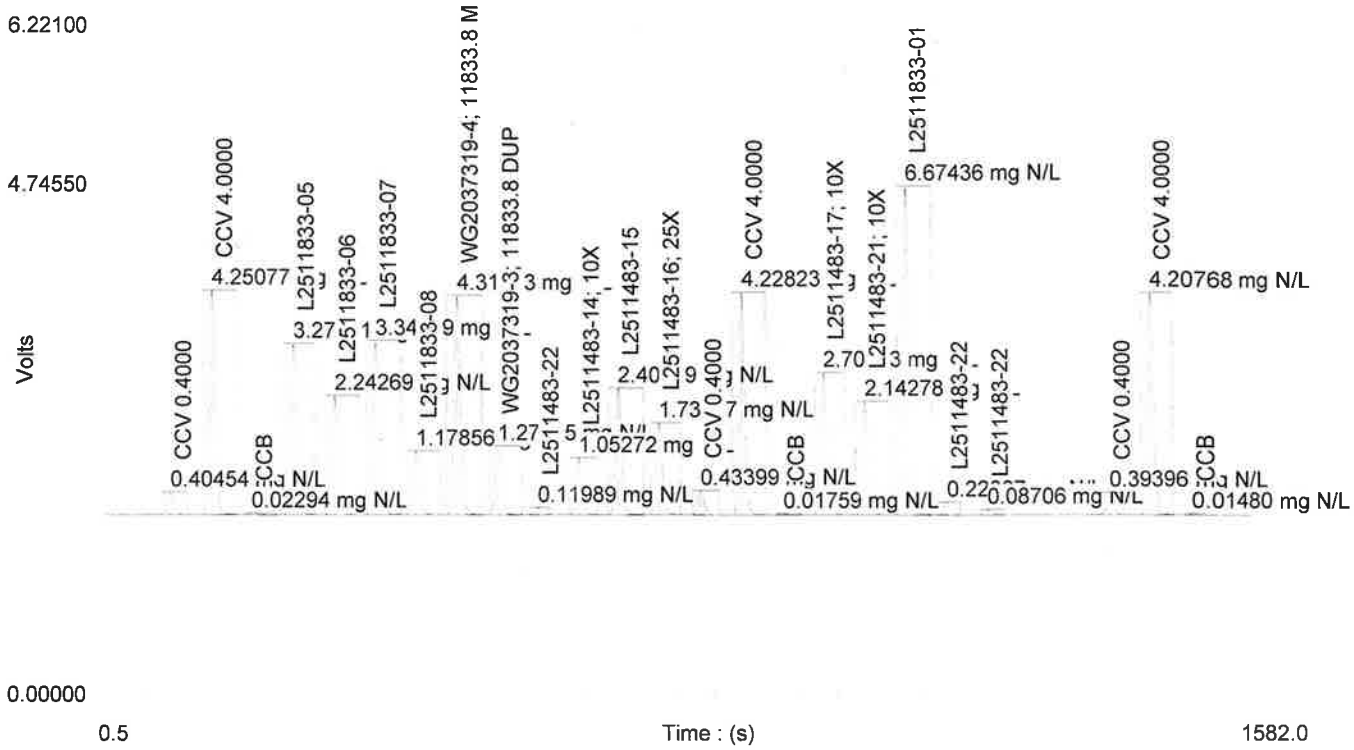
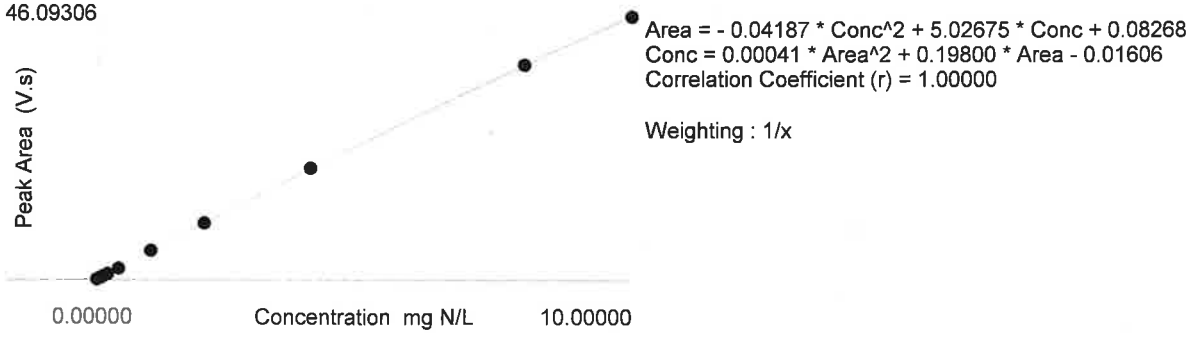


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 3/6/2025

Original Run Filename: OM_3-6-2025_07-34-24PM.OMN Created: 3/6/2025 7:34:24 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-6-2025_07-34-24PM.OMN Last Modified: 3/6/2025 8:12:22 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38572	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13718	104%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01291	✓		
	Known Conc:		100.00000			
WG2037321-1 T; BLK 3/6	1	1	0.04345			
WG2037321-2 T; HI LCS; 5X	1	2	39.16654		15.00	98%
LO LCS T	1	3	4.06926		3.00	102%
L2511529-01 T	1	4	0.20700		3.00	
L2511944-01 T	1	5	0.13088		3.00	
L2511944-02 T	1	6	0.03565		3.00	
L2511944-03 T	1	7	0.08491		3.00	
L2511944-04 T	1	8	-0.00984		3.00	
L2511911-01 T	1	9	32.44741		3.00	dilution.
L2511911-02 T	1	10	4.40688		6.00	
CCV 0.4000	1	S6	0.43113	108%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13663	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.02217	✓		
	Known Conc:		100.00000			
L2511944-05 T	1	11	0.06965		3.00	
L2511944-06 T	1	12	0.05981	✓	3.00	
WG2037321-4 T; 11944.6 MS	1	13	9.05659		3.00	113%
WG2037321-3 T; 11944.6 DUP	1	14	0.33333	✓	3.00	HCl (+KL)
L2511944-07 T	1	15	0.03677		3.00	
L2511944-08 T	1	16	0.02584		3.00	
L2511944-09 T	1	17	0.02073		3.00	
L2511911-03 T	1	18	0.15771		3.00	
L2511911-04 T	1	19	2.26167		3.00	
L2511911-05 T	1	20	0.25510		3.00	
CCV 0.4000	1	S6	0.38778	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.07386	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.01621	✓		
	Known Conc:		100.00000			
L2511911-01 T; 10X	1	21	32.04807		30.00	
L2511911-02 T	1	22	3.15023		6.00	
CCV 0.4000	1	S6	0.39302	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.06174	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02939	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 3/6/2025

Channel 2 (Ammonia High) - Current View

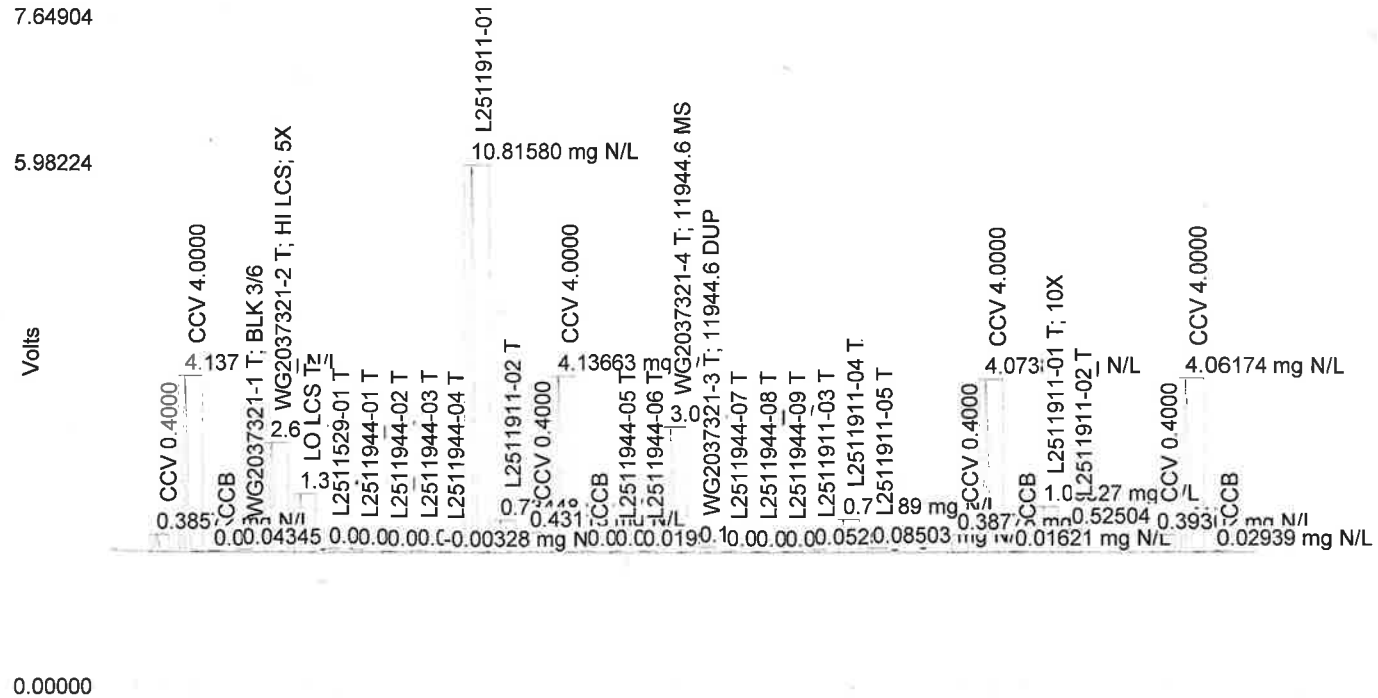
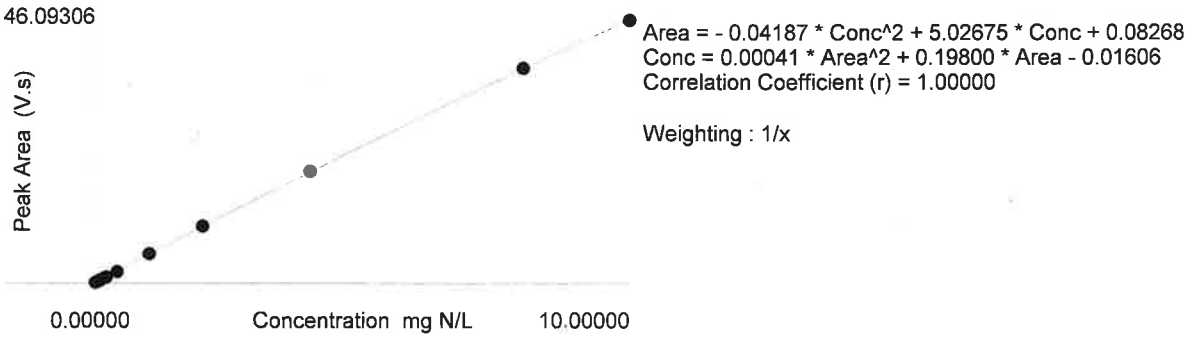


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	46.09306	4.63211	0.0	0.2	9.97507	3/6/2025	10:25:23 AM
2	8.00000	1	37.64639	3.86343	0.0	-0.1	8.01475	3/6/2025	10:26:19 AM
3	4.00000	1	19.64947	2.07849	0.0	-0.7	4.03168	3/6/2025	10:27:17 AM
4	2.00000	1	9.93360	1.05023	0.0	0.4	1.99096	3/6/2025	10:28:14 AM
5	1.00000	1	5.13155	0.53242	0.0	-1.3	1.01070	3/6/2025	10:29:11 AM
6	0.40000	1	2.01252	0.20861	0.0	3.6	0.38407	3/6/2025	10:30:09 AM
7	0.20000	1	1.04600	0.10828	0.0	3.7	0.19149	3/6/2025	10:31:07 AM
8	0.10000	1	0.57466	0.05801	0.0	1.8	0.09786	3/6/2025	10:32:06 AM
9	0.05000	1	0.34181	0.03347	0.0	-2.4	0.05166	3/6/2025	10:33:03 AM
10	0.00000	1	0.09552	0.01454			0.00285	3/6/2025	10:33:59 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511944-06		
Matrix Spike	: WG2037321-4	**MS Analysis Date**	: 03/06/25 19:52
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**		**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**ND**	**8**	**9.06**	**113**	**Q**					**77-111**	**24**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/06/25 19:51
Dup Sample ID	: WG2037321-3	**DUP Analysis Date**	: 03/06/25 19:53

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	0.333	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2037321-2	**LCS Analysis Date**	: 03/06/25 19:39
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Total Kjeldahl	40.0	39.2	98.					78-122	24

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

TITLE NH_3 3/6/25 KEM

Project No. _____

Book No. _____ Confi

From Page No. ____

Tray A (10-19-55AM, 10-53-47AM)
prep 3/5/25 @20:00

1	Hi ICV 8.0
2	Lo ICV 1.0
3	ICB
4	WG20377100-1 BLK
5	-2; LCS Hi, 5X
6	LCS Lo
7	11124-01
8	-01 MS
9	-01 Dup
10	-02
11	-03
12	-04
13	11130-01
14	-02
15	-03
16	11149-02 (5X)
⊗ 17	11179-07; 20X 0.5%10
⊗ 18	11262-02
19	-03
20	-04
21	-05
22	-06
23	-07

Date: 3/6/25
Sodium Phenolate: 3/4/25 R-4161
Sodium Hypochlorate: 3/4/25 Stop&Shop
Sodium Nitropruisside: 3/4/25 R-30169
Borric Acid Soln.: 3/4/25 R-4109
ICV 1.0: 3/4/25 WC-3495
ICV 8.0:
Cal. Std: ~~3/5~~ KEM 3/6/25 WC-3561
See Front Page for Instructions:

KEM

Tray B (01-00-45PM, ~~01-21-41PM~~ KEM, 01-59-34PM)
prep 3/~~6~~ KEM/25 @19:00

1	WG20377097-1T; BLK
2	-2T; LCS Hi, 5X
3	LCS LoT
4	11117-02T (5X)
5	02T MS (5X)
6	02T Dup (5X)
7	-03T (5X)
8	11121-01T
9	11123-02T
10	11130-01T
11	02T
12	03T
13	11149-02T (5X)
KEM ⊗ 14	11150-01T; 10X 1↑10
⊗ 15	02T
16	11152-01T
17	02T
18	11265-01T
19	11266-01T
KEM ⊗ 20	11293-01T; (2x) 50X 1↑50

KEM

Tray C (02-34-25PM)
prep 3/5/25 @23:50

1	DYQ IDOC BLK TKN
2	LCS1 T
3	LCS2 T
4	LCS3 T
5	LCS LoT

KEM

To Page N

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

tj D (04-55 - 13pm)
Bmp 3/6/25 @1415

1 wb-2037318-1-BH 3/6 (2037319)
2 wb-2037318-2; Hi us -5T
3 6 us
4 11485 .1
5 .2
6 .3
7 .4
8 wb-2037318-4; 11485.4 ms
9 wb-2037318-3; 11485.4 bp
10 10986.9
11 11578.1
X 12 11483.14 (2t) -10 +
X 13 .15 (5t)
X 14 .16 (2t) -25 t
X 15 .17 -20 t
X 16 .21 -10 +
X 17 11838.1 (2t)
18 .2 (2t)
19 .3 (2t)
20 1833 .4
21 .5
22 .6
23 .7
24 .8 (5t)
25 wb-2037319-4; 11838.8 ms (5t)
26 wb-2037319-3; 11838.8 bp (5t)
27 11483.22

05.24-39PM

tj E (07.34-24PM)
Bmp 3/6/25 @1415

1 wb-2037321-1 T-BH 3/6
2 wb-2037321-2 T-Hi us -5 t
3 6 us T
4 11529.1 T
5 11944.1 T
6 .2 T
7 .3 T
8 .4 T
X 9 11911.1 T -10 +
X 10 .2 T (2t)
4 11944.5 T
12 .6 T
13 wb-2037321-4 T- 11944.6 ms
14 wb-2037321-3 T- 11944.6 bp
15 11944.7 T
16 .8 T
17 .9 T
18 11911.3 T
19 .4 T
20 .5 +

essed & Understood by me. Date Invented by: Date
Recorded by:

Sample Preparation

Sample	Dilution	Volume	Final vol.
Blank	1x	50mL	150mL
LOW			
High			
L2511529-01			
11911-01			
-02	2X(25150) NF 13		
-03	1x		
-04			
-05			
11944-01			
-02			
-03			
-04			
-05			
-06 Pt.			
-06 Dup.			
-06 MS.			
-07			
-08			
-09			

Same Standards 03 06 25 @ 14:15 SAD,
& Reagents
as previous
pg # 47

Witnessed & Understood by me, | Date | Invented by: | Date
Recorded by:

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/04/25 06:29
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250304-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036273-1	**Date Collected**	: NA
Client ID	: WG2036273-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/04/25 06:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250304-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036273-3	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11DDUP	**Date Received**	: 03/03/25
Sample Location	:	**Date Analyzed**	: 03/04/25 06:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250304-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/04/25 06:29
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250304-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	0.237	0.100	0.022	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036276-1	**Date Collected**	: NA
Client ID	: WG2036276-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/04/25 06:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250304-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	ND	0.100	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036276-3	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11DDUP	**Date Received**	: 03/03/25
Sample Location	:	**Date Analyzed**	: 03/04/25 06:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250304-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	0.235	0.100	0.023	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/04/25 06:29
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250304-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.24	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036280-1	**Date Collected**	: NA
Client ID	: WG2036280-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/04/25 06:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250304-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036280-3	**Date Collected**	: 03/03/25 14:20
Client ID	: MW-11DDUP	**Date Received**	: 03/03/25
Sample Location	:	**Date Analyzed**	: 03/04/25 06:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250304-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.23	0.10	0.05	

Sample Raw Data

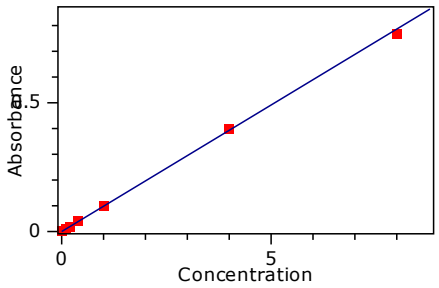
Graphical report generated by FIAsoft v3.1.10
Report generated on 2025-03-04 07:21:05
Data file (.dat): C:\FIAlab\Autosave Data\2025-03-04-072040.dat

Dataset Notes:

Analyst	

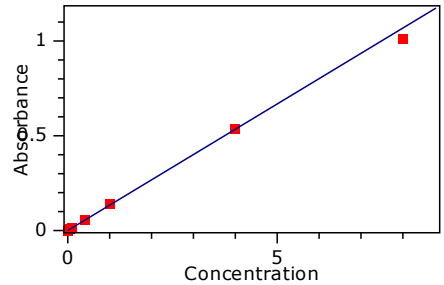
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00007
B: 0.09829
R^2: 0.99967
RSE(%): 1.94375
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.76700	8.00000	7.80360	2.45	2025-03-04T05:35:26
3	NOx 4.0ppm	0.39830	4.00000	4.05270	1.32	2025-03-04T05:36:36
4	NOx 1.0ppm	0.10030	1.00000	1.02150	2.15	2025-03-04T05:37:43
5	NOx 0.4ppm	0.03940	0.40000	0.40130	0.31	2025-03-04T05:38:50
6	NOx 0.2ppm	0.01930	0.20000	0.19690	1.54	2025-03-04T05:40:00
7	NOx 0.1ppm	0.00980	0.10000	0.10050	0.51	2025-03-04T05:41:09
8	NOx 0.0ppm	0.00010	0.00000	0.00180	NA	2025-03-04T05:42:19



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00034
B: 0.13350
R^2: 0.99905
RSE(%): 3.53777
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	1.00950	8.00000	7.55960	5.50	2025-03-04T05:43:18
10	Nitrite 4.0ppm	0.53780	4.00000	4.02600	0.65	2025-03-04T05:44:27
11	Nitrite 1.0ppm	0.13820	1.00000	1.03260	3.26	2025-03-04T05:45:33
12	Nitrite 0.4ppm	0.05520	0.40000	0.41060	2.66	2025-03-04T05:46:43
13	Nitrite 0.1ppm	0.01380	0.10000	0.10090	0.90	2025-03-04T05:47:52
14	Nitrite 0.05ppm	0.00700	0.05000	0.04950	0.92	2025-03-04T05:49:02
15	Nitrite 0.0ppm	0.00010	0.00000	-0.00140	NA	2025-03-04T05:50:15

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0003	1	1	1	0.0033		2025-03-04T05:34:12
NOx 8.0ppm	2	Standard	8	0.7670	1	1	1	7.8036		2025-03-04T05:35:26
NOx 4.0ppm	3	Standard	4	0.3983	1	1	1	4.0527		2025-03-04T05:36:36
NOx 1.0ppm	4	Standard	1	0.1003	1	1	1	1.0215		2025-03-04T05:37:43
NOx 0.4ppm	5	Standard	0.4	0.0394	1	1	1	0.4013		2025-03-04T05:38:50
NOx 0.2ppm	6	Standard	0.2	0.0193	1	1	1	0.1969		2025-03-04T05:40:00
NOx 0.1ppm	7	Standard	0.1	0.0098	1	1	1	0.1005		2025-03-04T05:41:09
NOx 0.0ppm	8	Standard	0	0.0001	1	1	1	0.0018		2025-03-04T05:42:19
Nitrite 8.0ppm	9	Standard	?	0.7782	1	1	1	7.9183	OVR	2025-03-04T05:43:30
Nitrite 4.0ppm	10	Standard	?	0.4070	1	1	1	4.1417		2025-03-04T05:44:39
Nitrite 1.0ppm	11	Standard	?	0.1037	1	1	1	1.0554		2025-03-04T05:45:47
Nitrite 0.4ppm	12	Standard	?	0.0407	1	1	1	0.4148		2025-03-04T05:46:55
Nitrite 0.1ppm	13	Standard	?	0.0102	1	1	1	0.1049		2025-03-04T05:48:04
Nitrite 0.05ppm	14	Standard	?	0.0052	1	1	1	0.0537		2025-03-04T05:49:14
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	0.0020		2025-03-04T05:50:25
CCV NO3	16	QC	1	0.1013	1	1	1	1.0316		2025-03-04T05:51:30
CCV NO2	17	QC	?	0.1040	1	1	1	1.0592		2025-03-04T05:52:36
CCB	18	QC	0	0.0002	1	1	1	0.0032		2025-03-04T05:53:50
ICV NO3 5.0	19	QC	5	0.4922	1	1	1	5.0087		2025-03-04T05:54:54
ICV NO2 5.0	20	QC	?	0.4882	1	1	1	4.9675		2025-03-04T05:56:03
ICV NO3 0.5	21	QC	0.5	0.0498	1	1	1	0.5068		2025-03-04T05:57:12
ICV NO2 0.5	22	QC	?	0.0496	1	1	1	0.5055		2025-03-04T05:58:20
ICB	23	QC	0	0.0000	1	1	1	0.0009		2025-03-04T05:59:33
Diluter CHK 8PPM	24	Unknown	?	0.1630	1	5	1	8.2935		2025-03-04T06:00:38
BLANK NO3	25	Unknown	?	0.0000	1	1	1	0.0003		2025-03-04T06:01:20
LCS NO3	26	Unknown	?	0.4956	1	1	1	5.0425		2025-03-04T06:02:53
BLANK NO2	27	Unknown	?	-0.0001	1	1	1	-0.0005		2025-03-04T06:03:32
LCS NO2	28	Unknown	?	0.4852	1	1	1	4.9371		2025-03-04T06:05:05
CCV NO3	29	QC	1	0.1008	1	1	1	1.0258		2025-03-04T06:06:11
CCV NO2	30	QC	?	0.1042	1	1	1	1.0612		2025-03-04T06:07:16
CCB	31	QC	0	0.0003	1	1	1	0.0038		2025-03-04T06:08:30
WG2036273/274-1	32	Unknown	?	0.0001	1	1	1	0.0013		2025-03-04T06:09:43

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2036273/274-2	33	Unknown	?	0.4909	1	1	1	4.9951		2025-03-04T06:10:42
WG2036276/280-1	34	Unknown	?	-0.0002	1	1	1	-0.0015		2025-03-04T06:11:19
WG2036276/280-2	35	Unknown	?	0.4917	1	1	1	5.0036		2025-03-04T06:12:53
WG2036278/279-1	36	Unknown	?	-0.0001	1	1	1	-0.0002		2025-03-04T06:13:30
WG2036278/279-2	37	Unknown	?	0.4900	1	1	1	4.9862		2025-03-04T06:15:04
L2511505-01A	38	Unknown	?	0.0704	1	1	1	0.7173		2025-03-04T06:16:10
L2511505-02A	39	Unknown	?	0.0291	1	1	1	0.2970		2025-03-04T06:17:17
L2511505-03A	40	Unknown	?	1.0214	1	1	1	10.3924	OVR	2025-03-04T06:18:24
L2511505-04A	41	Unknown	?	0.6511	1	1	1	6.6251		2025-03-04T06:19:29
CCV NO3	42	QC	1	0.0991	1	1	1	1.0093		2025-03-04T06:20:35
CCV NO2	43	QC	?	0.1050	1	1	1	1.0689		2025-03-04T06:21:40
CCB	44	QC	0	0.0002	1	1	1	0.0024		2025-03-04T06:22:52
L2511505-05A	45	Unknown	?	0.0116	1	1	1	0.1191		2025-03-04T06:23:58
L2511505-06A	46	Unknown	?	0.0018	1	1	1	0.0194		2025-03-04T06:25:05
L2511505-07A	47	Unknown	?	0.0698	1	1	1	0.7106		2025-03-04T06:26:11
L2511505-08A	48	Unknown	?	0.3818	1	1	1	3.8850		2025-03-04T06:27:16
L2511505-09A	49	Unknown	?	0.2026	1	1	1	2.0617		2025-03-04T06:28:22
L2511529-01M	50	Unknown	?	0.0232	1	1	1	0.2367		2025-03-04T06:29:26
WG2036276/280-3	51	Unknown	?	0.0230	1	1	1	0.2349		2025-03-04T06:30:31
WG2036276/280-4	52	Unknown	?	0.3762	1	1	1	3.8285		2025-03-04T06:31:35
WG2036273-3	53	Unknown	?	0.0214	1	1	1	0.2188		2025-03-04T06:32:40
WG2036273-4	54	Unknown	?	0.3099	1	1	1	3.1538		2025-03-04T06:33:43
CCV NO3	55	QC	1	0.1007	1	1	1	1.0251		2025-03-04T06:34:48
CCV NO2	56	QC	?	0.1048	1	1	1	1.0668		2025-03-04T06:35:53
CCB	57	QC	0	0.0003	1	1	1	0.0041		2025-03-04T06:37:07
L2511483-14D	58	Unknown	?	0.0019	1	1	1	0.0196		2025-03-04T06:38:14
L2511483-15D	59	Unknown	?	0.0021	1	1	1	0.0221		2025-03-04T06:39:23
L2511483-16D	60	Unknown	?	0.0047	1	1	1	0.0482		2025-03-04T06:40:29
L2511483-17D	61	Unknown	?	0.0022	1	1	1	0.0233		2025-03-04T06:41:35
L2511483-21D	62	Unknown	?	0.0020	1	1	1	0.0211		2025-03-04T06:42:42
L2511483-22D	63	Unknown	?	0.0000	1	1	1	0.0012		2025-03-04T06:43:44
L2511578-01N	64	Unknown	?	0.0000	1	1	1	0.0011		2025-03-04T06:45:00
WG2036278-3	65	Unknown	?	0.0001	1	1	1	0.0015		2025-03-04T06:46:00

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2036278-4	66	Unknown	?	0.3908	1	1	1	3.9762		2025-03-04T06:47:04
WG2036274-3	67	Unknown	?	-0.0001	1	1	1	-0.0004		2025-03-04T06:47:40
CCV NO3	68	QC	1	0.1024	1	1	1	1.0423		2025-03-04T06:49:14
CCV NO2	69	QC	?	0.1037	1	1	1	1.0557		2025-03-04T06:50:19
CCB	70	QC	0	0.0004	1	1	1	0.0044		2025-03-04T06:51:35
WG2036274-4	71	Unknown	?	0.4089	1	1	1	4.1605		2025-03-04T06:52:39
L2511549-01H	72	Unknown	?	0.3809	1	1	1	3.8756		2025-03-04T06:53:45
WG2036279-3	73	Unknown	?	0.3839	1	1	1	3.9068		2025-03-04T06:54:49
WG2036279-4	74	Unknown	?	0.7334	1	1	1	7.4617		2025-03-04T06:55:53
L2511229-01A	75	Unknown	?	0.0006	1	1	1	0.0064		2025-03-04T06:56:57
L2511245-01A	76	Unknown	?	0.2061	1	1	1	2.0976		2025-03-04T06:58:03
L2511245-02A	77	Unknown	?	0.3252	1	1	1	3.3096		2025-03-04T06:59:09
L2511245-03A	78	Unknown	?	0.1070	1	1	1	1.0892		2025-03-04T07:00:16
L2511245-04A	79	Unknown	?	0.0944	1	1	1	0.9609		2025-03-04T07:01:23
L2511505-04A	80	Unknown	?	0.6495	1	1	1	6.6086		2025-03-04T07:02:29
CCV NO3	81	QC	1	0.1001	1	1	1	1.0186		2025-03-04T07:03:34
CCV NO2	82	QC	?	0.1045	1	1	1	1.0637		2025-03-04T07:04:40
CCB	83	QC	0	0.0002	1	1	1	0.0025		2025-03-04T07:05:53
spacer	84	Unknown	?	0.0000	1	1	1	0.0011		2025-03-04T07:09:53
spacer	85	Unknown	?	0.0005	1	1	1	0.0055		2025-03-04T07:11:27
L2511505-03A	86	Unknown	?	0.2323	1	5	1	11.8216		2025-03-04T07:12:30
CCV NO3	87	QC	1	0.1027	1	1	1	1.0451		2025-03-04T07:13:36
CCV NO2	88	QC	?	0.1039	1	1	1	1.0574		2025-03-04T07:14:42
CCB	89	QC	0	0.0002	1	1	1	0.0025		2025-03-04T07:15:56

Channel: 2-NO2

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0020		2025-03-04T05:33:58
NOx 8.0ppm	2	Standard	?	0.0001	1	1	1	-0.0020		2025-03-04T05:35:59
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0017		2025-03-04T05:36:24
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0019		2025-03-04T05:37:30
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0019		2025-03-04T05:38:48
NOx 0.2ppm	6	Standard	?	0.0001	1	1	1	-0.0020		2025-03-04T05:39:48
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0019		2025-03-

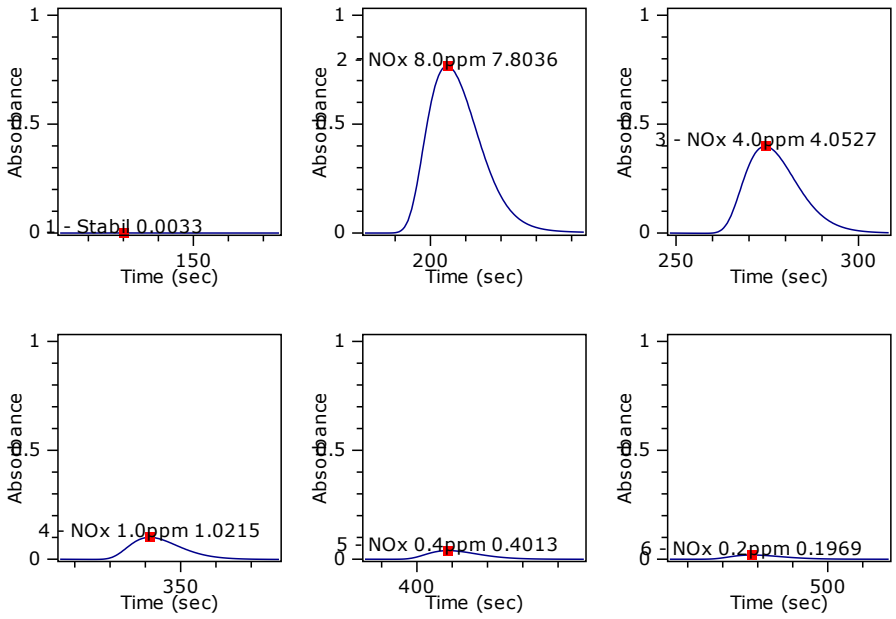
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										04T05:41:47
NOx 0.0ppm	8	Standard	?	0.0001	1	1	1	-0.0016		2025-03-04T05:42:08
Nitrite 8.0ppm	9	Standard	8	1.0095	1	1	1	7.5596		2025-03-04T05:43:18
Nitrite 4.0ppm	10	Standard	4	0.5378	1	1	1	4.0260		2025-03-04T05:44:27
Nitrite 1.0ppm	11	Standard	1	0.1382	1	1	1	1.0326		2025-03-04T05:45:33
Nitrite 0.4ppm	12	Standard	0.4	0.0552	1	1	1	0.4106		2025-03-04T05:46:43
Nitrite 0.1ppm	13	Standard	0.1	0.0138	1	1	1	0.1009		2025-03-04T05:47:52
Nitrite 0.05ppm	14	Standard	0.05	0.0070	1	1	1	0.0495		2025-03-04T05:49:02
Nitrite 0.0ppm	15	Standard	0	0.0001	1	1	1	-0.0014		2025-03-04T05:50:15
CCV NO3	16	QC	?	0.0001	1	1	1	-0.0016		2025-03-04T05:51:18
CCV NO2	17	QC	1	0.1379	1	1	1	1.0301		2025-03-04T05:52:23
CCB	18	QC	0	0.0004	1	1	1	0.0005		2025-03-04T05:53:40
ICV NO3 5.0	19	QC	?	0.0001	1	1	1	-0.0018		2025-03-04T05:54:45
ICV NO2 5.0	20	QC	5	0.6421	1	1	1	4.8076		2025-03-04T05:55:51
ICV NO3 0.5	21	QC	?	0.0010	1	1	1	0.0050		2025-03-04T05:57:04
ICV NO2 0.5	22	QC	0.5	0.0663	1	1	1	0.4943		2025-03-04T05:58:08
ICB	23	QC	0	0.0002	1	1	1	-0.0013		2025-03-04T05:59:21
Diluter CHK 8PPM	24	Unknown	?	0.0001	1	5	1	-0.0082		2025-03-04T06:00:33
BLANK NO3	25	Unknown	?	0.0001	1	1	1	-0.0019		2025-03-04T06:01:34
LCS NO3	26	Unknown	?	0.0001	1	1	1	-0.0020		2025-03-04T06:02:48
BLANK NO2	27	Unknown	?	0.0001	1	1	1	-0.0018		2025-03-04T06:03:44
LCS NO2	28	Unknown	?	0.6411	1	1	1	4.7999		2025-03-04T06:04:52
CCV NO3	29	QC	?	0.0017	1	1	1	0.0103		2025-03-04T06:06:03
CCV NO2	30	QC	1	0.1370	1	1	1	1.0238		2025-03-04T06:07:03
CCB	31	QC	0	0.0005	1	1	1	0.0012		2025-03-04T06:08:21
WG2036273/274-1	32	Unknown	?	0.0001	1	1	1	-0.0015		2025-03-04T06:09:27
WG2036273/274-2	33	Unknown	?	0.6401	1	1	1	4.7924		2025-03-04T06:10:29
WG2036276/280-1	34	Unknown	?	0.0011	1	1	1	0.0060		2025-03-04T06:11:38
WG2036276/280-2	35	Unknown	?	0.0001	1	1	1	-0.0014		2025-03-04T06:12:44
WG2036278/279-1	36	Unknown	?	0.0001	1	1	1	-0.0019		2025-03-04T06:13:46
WG2036278/279-2	37	Unknown	?	0.0001	1	1	1	-0.0020		2025-03-04T06:14:56
L2511505-01A	38	Unknown	?	0.0012	1	1	1	0.0066		2025-03-04T06:15:58
L2511505-02A	39	Unknown	?	0.0021	1	1	1	0.0134		2025-03-04T06:17:05

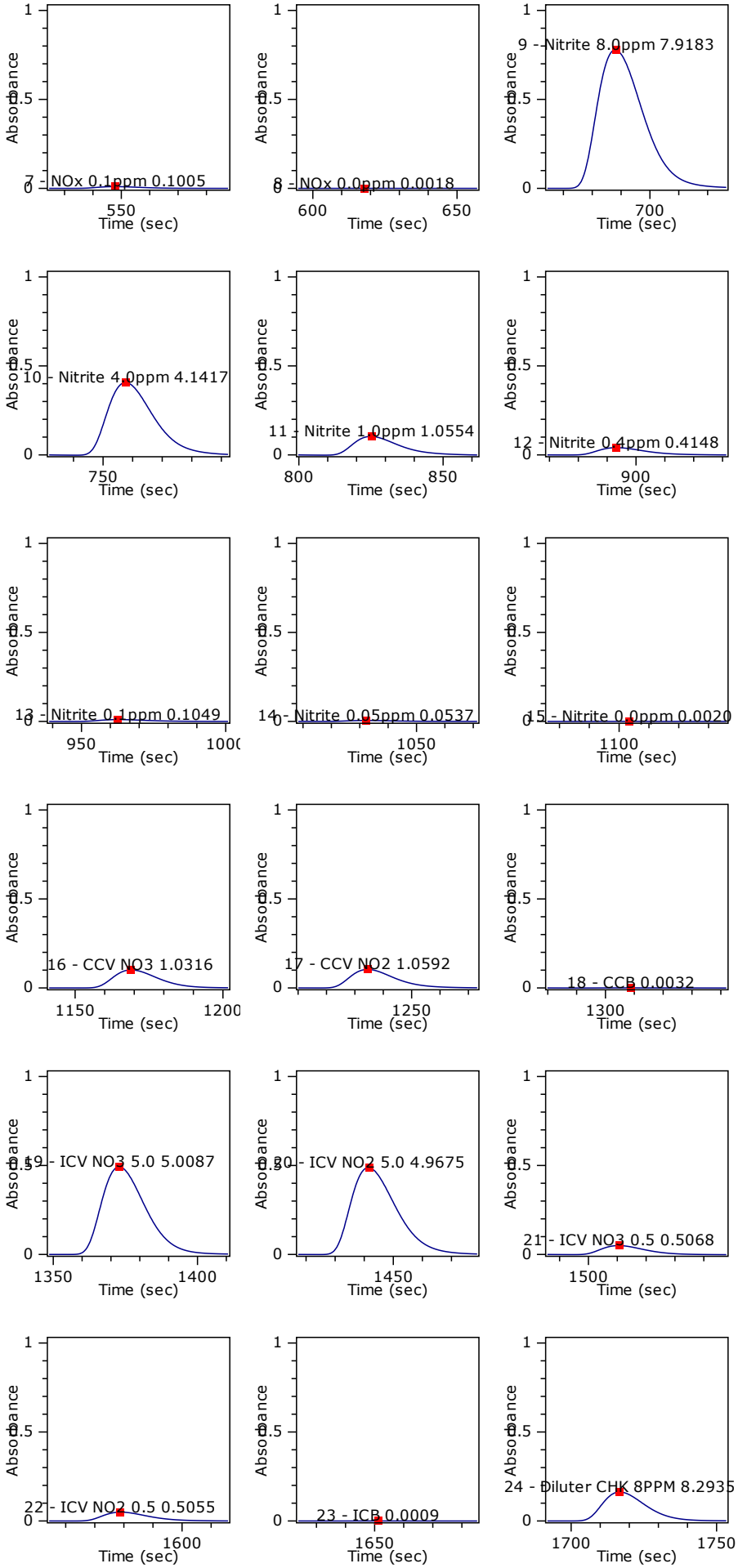
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2511505-03A	40	Unknown	?	0.0011	1	1	1	0.0059		2025-03-04T06:18:10
L2511505-04A	41	Unknown	?	0.0012	1	1	1	0.0063		2025-03-04T06:19:17
CCV NO3	42	QC	?	0.0001	1	1	1	-0.0018		2025-03-04T06:20:21
CCV NO2	43	QC	1	0.1372	1	1	1	1.0255		2025-03-04T06:21:27
CCB	44	QC	0	0.0003	1	1	1	-0.0001		2025-03-04T06:22:40
L2511505-05A	45	Unknown	?	0.0030	1	1	1	0.0198		2025-03-04T06:23:44
L2511505-06A	46	Unknown	?	0.0018	1	1	1	0.0112		2025-03-04T06:24:52
L2511505-07A	47	Unknown	?	0.0028	1	1	1	0.0185		2025-03-04T06:25:57
L2511505-08A	48	Unknown	?	0.0009	1	1	1	0.0046		2025-03-04T06:27:02
L2511505-09A	49	Unknown	?	0.0024	1	1	1	0.0157		2025-03-04T06:28:07
L2511529-01M	50	Unknown	?	0.0009	1	1	1	0.0045		2025-03-04T06:29:13
WG2036276/280-3	51	Unknown	?	0.0002	1	1	1	-0.0007		2025-03-04T06:30:15
WG2036276/280-4	52	Unknown	?	0.0003	1	1	1	-0.0005		2025-03-04T06:31:22
WG2036273-3	53	Unknown	?	0.0002	1	1	1	-0.0008		2025-03-04T06:32:25
WG2036273-4	54	Unknown	?	0.3822	1	1	1	2.8608		2025-03-04T06:33:29
CCV NO3	55	QC	?	0.0000	1	1	1	-0.0026		2025-03-04T06:34:20
CCV NO2	56	QC	1	0.1356	1	1	1	1.0133		2025-03-04T06:35:40
CCB	57	QC	0	0.0004	1	1	1	0.0003		2025-03-04T06:36:54
L2511483-14D	58	Unknown	?	0.0015	1	1	1	0.0083		2025-03-04T06:38:01
L2511483-15D	59	Unknown	?	0.0017	1	1	1	0.0105		2025-03-04T06:39:09
L2511483-16D	60	Unknown	?	0.0034	1	1	1	0.0232		2025-03-04T06:40:16
L2511483-17D	61	Unknown	?	0.0015	1	1	1	0.0091		2025-03-04T06:41:22
L2511483-21D	62	Unknown	?	0.0018	1	1	1	0.0111		2025-03-04T06:42:28
L2511483-22D	63	Unknown	?	0.0000	1	1	1	-0.0022		2025-03-04T06:44:18
L2511578-01N	64	Unknown	?	0.0001	1	1	1	-0.0022		2025-03-04T06:45:03
WG2036278-3	65	Unknown	?	0.0000	1	1	1	-0.0022		2025-03-04T06:46:30
WG2036278-4	66	Unknown	?	0.0001	1	1	1	-0.0019		2025-03-04T06:47:15
WG2036274-3	67	Unknown	?	0.0000	1	1	1	-0.0024		2025-03-04T06:47:58
CCV NO3	68	QC	?	0.0001	1	1	1	-0.0017		2025-03-04T06:48:59
CCV NO2	69	QC	1	0.1361	1	1	1	1.0170		2025-03-04T06:50:05
CCB	70	QC	0	0.0005	1	1	1	0.0010		2025-03-04T06:51:22
WG2036274-4	71	Unknown	?	0.5376	1	1	1	4.0242		2025-03-04T06:52:24
L2511549-01H	72	Unknown	?	0.0029	1	1	1	0.0195		2025-03-04T06:53:32

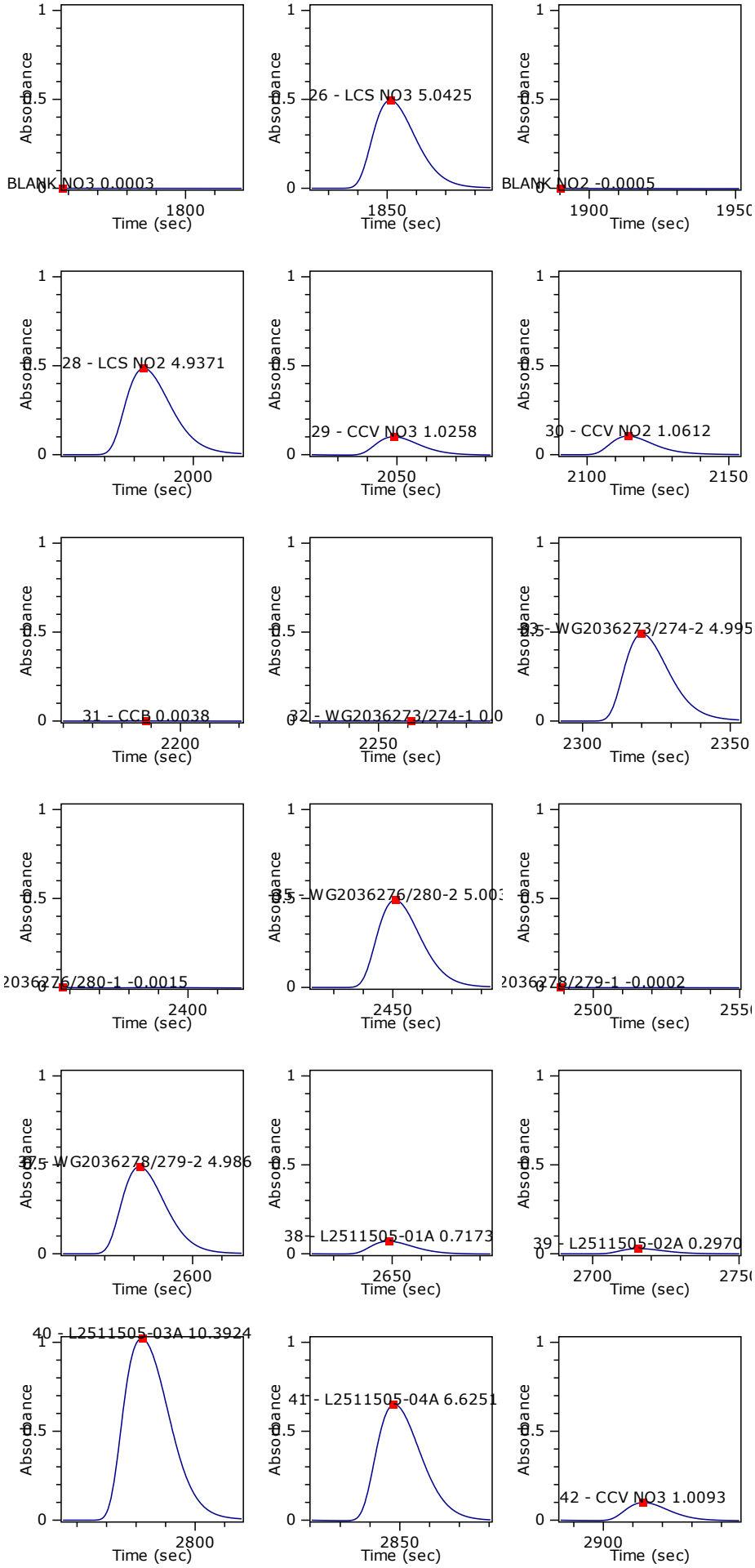
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2036279-3	73	Unknown	?	0.0015	1	1	1	0.0086		2025-03-04T06:54:35
WG2036279-4	74	Unknown	?	0.0029	1	1	1	0.0189		2025-03-04T06:55:39
L2511229-01A	75	Unknown	?	0.0022	1	1	1	0.0141		2025-03-04T06:56:44
L2511245-01A	76	Unknown	?	0.0007	1	1	1	0.0031		2025-03-04T06:57:50
L2511245-02A	77	Unknown	?	0.0042	1	1	1	0.0291		2025-03-04T06:58:57
L2511245-03A	78	Unknown	?	0.0009	1	1	1	0.0046		2025-03-04T07:00:03
L2511245-04A	79	Unknown	?	0.0010	1	1	1	0.0047		2025-03-04T07:01:09
L2511505-04A	80	Unknown	?	0.0010	1	1	1	0.0050		2025-03-04T07:02:16
CCV NO3	81	QC	?	0.0001	1	1	1	-0.0017		2025-03-04T07:03:19
CCV NO2	82	QC	1	0.1360	1	1	1	1.0161		2025-03-04T07:04:26
CCB	83	QC	0	0.0004	1	1	1	0.0002		2025-03-04T07:05:40
spacer	84	Unknown	?	0.0000	1	1	1	-0.0024		2025-03-04T07:10:13
spacer	85	Unknown	?	0.0003	1	1	1	-0.0004		2025-03-04T07:11:11
L2511505-03A	86	Unknown	?	0.0003	1	5	1	-0.0032		2025-03-04T07:12:18
CCV NO3	87	QC	?	0.0001	1	1	1	-0.0019		2025-03-04T07:13:23
CCV NO2	88	QC	1	0.1355	1	1	1	1.0123		2025-03-04T07:14:28
CCB	89	QC	0	0.0004	1	1	1	0.0002		2025-03-04T07:15:43

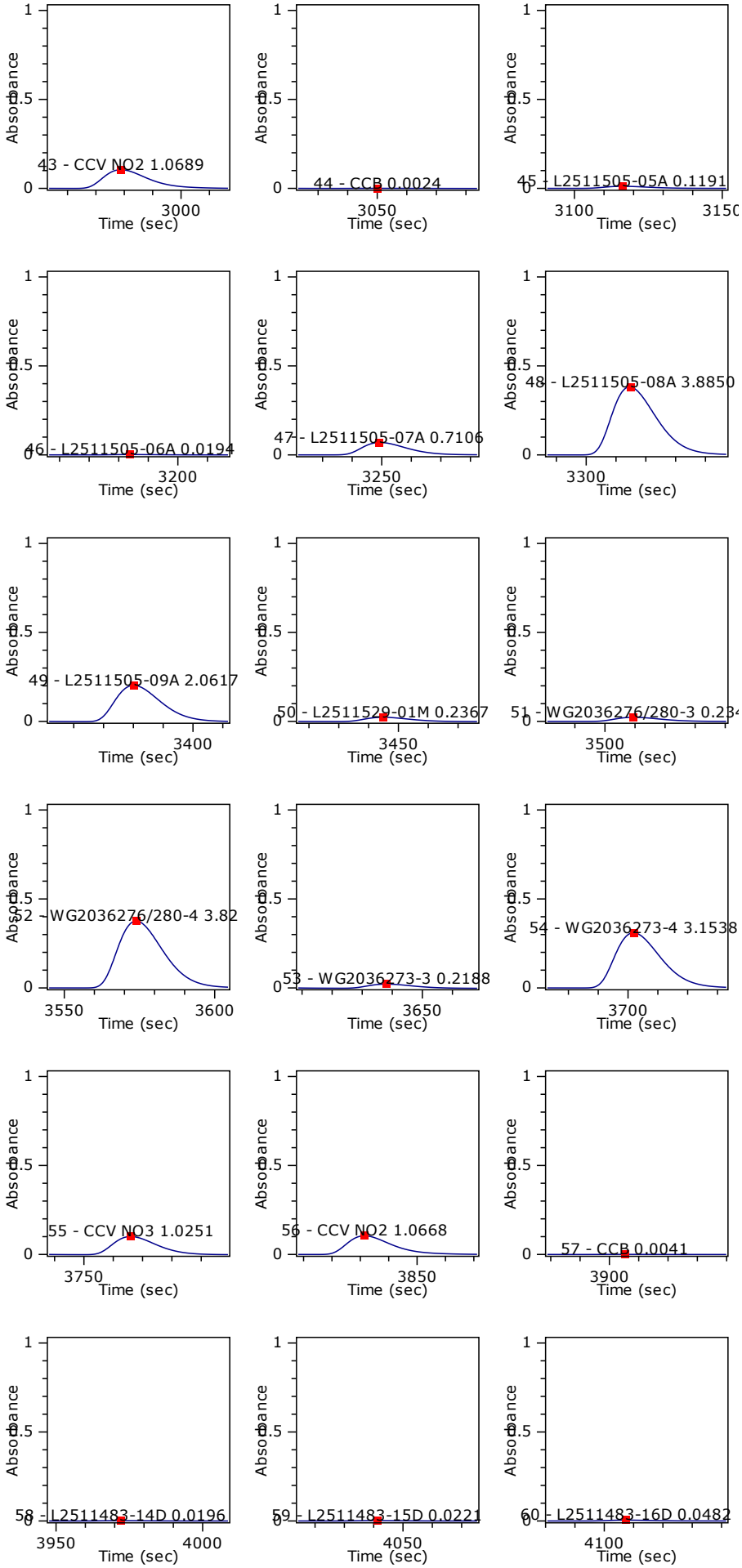
Peaks:

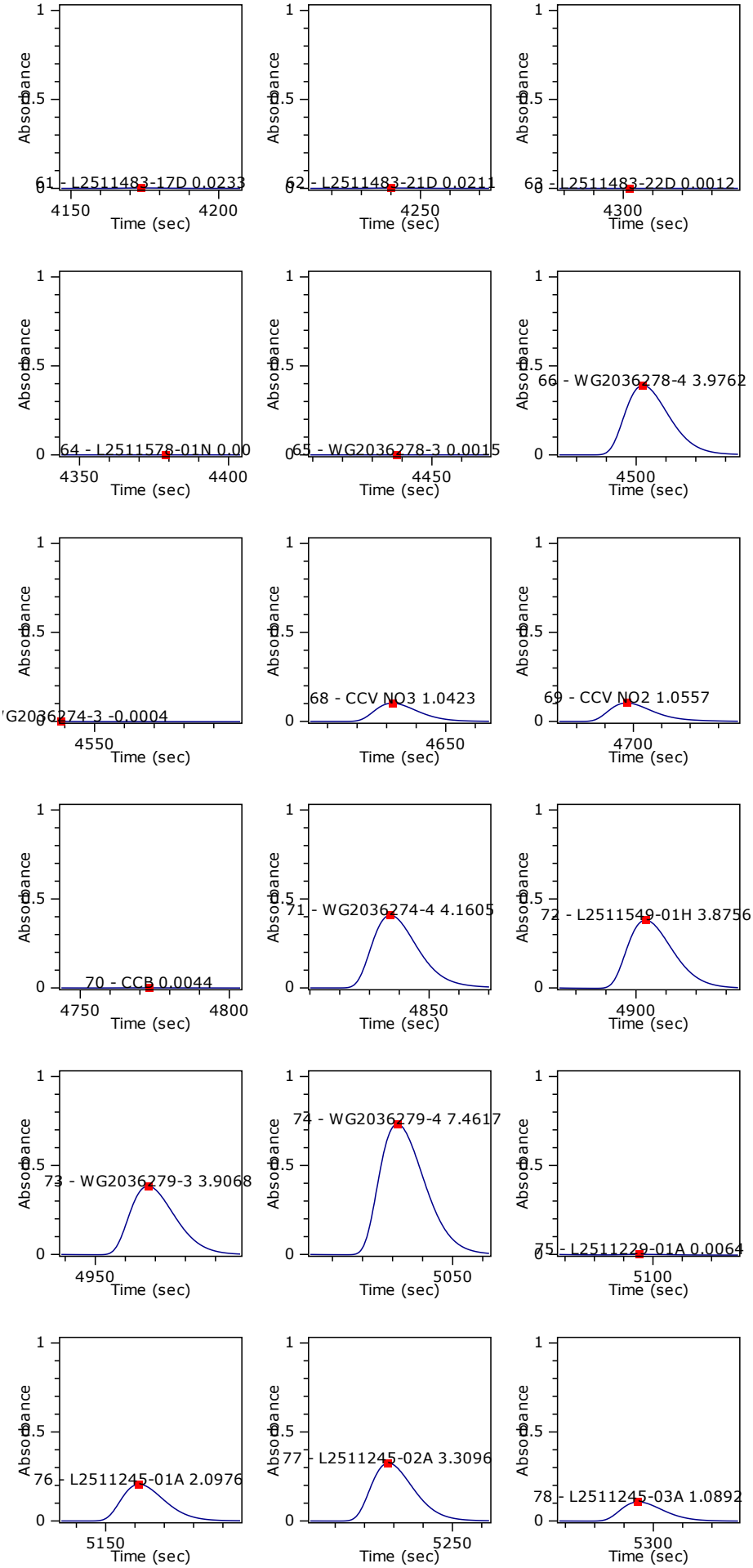
Channel: 1-NOx

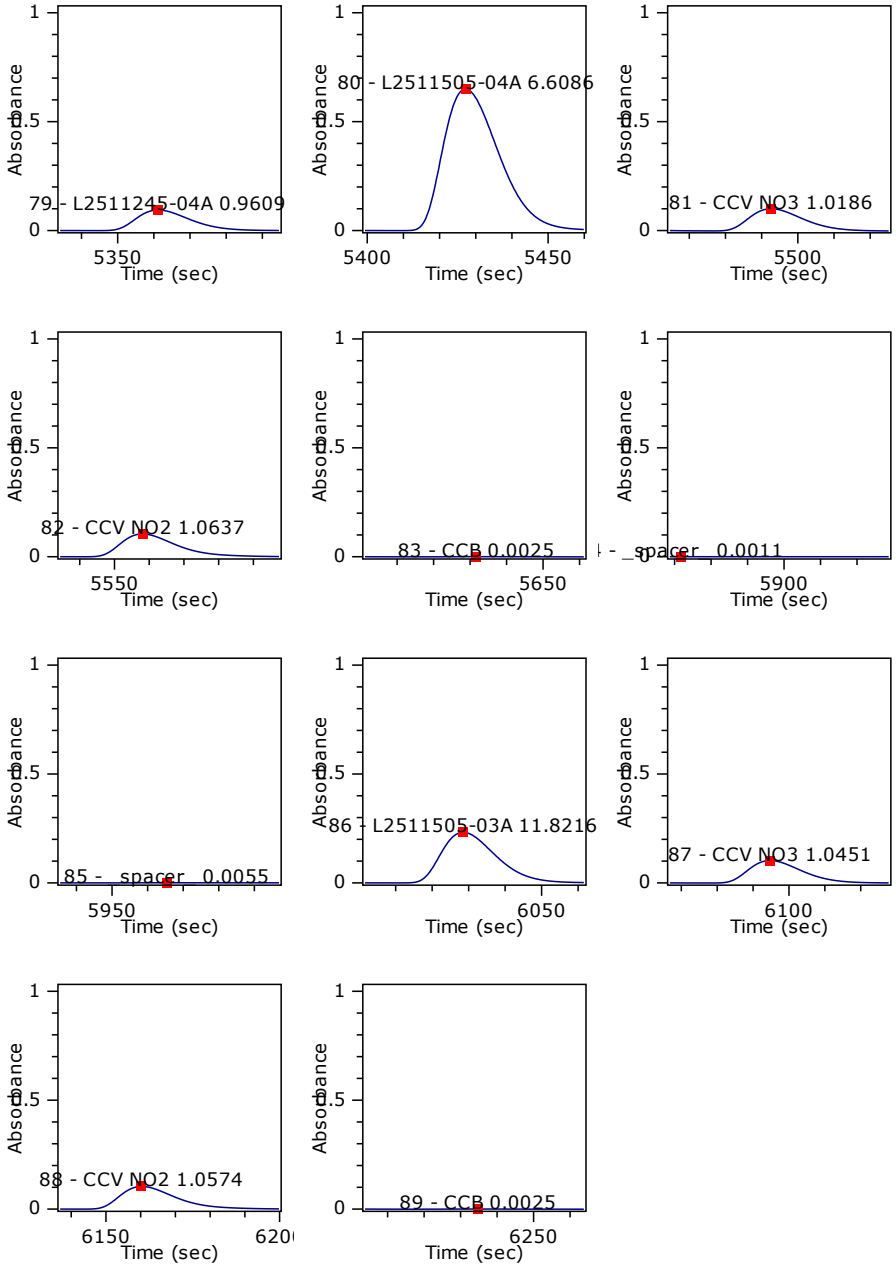



7 - NOx 0.1ppm 0.1005
8 - NOx 0.0ppm 0.0018
9 - Nitrite 8.0ppm 7.9183
10 - Nitrite 4.0ppm 4.1417
11 - Nitrite 1.0ppm 1.0554
12 - Nitrite 0.4ppm 0.4148
13 - Nitrite 0.1ppm 0.1049
14 - Nitrite 0.05ppm 0.0537
15 - Nitrite 0.0ppm 0.0020
16 - CCV NO3 1.0316
17 - CCV NO2 1.0592
18 - CCB 0.0032
19 - ICV NO3 5.0 5.0087
20 - ICV NO2 5.0 4.9675
21 - ICV NO3 0.5 0.5068
22 - ICV NO2 0.5 0.5055
23 - ICB 0.0009
24 - Diluter CHK 8PPM 8.2935
Absorbance
Time (sec)

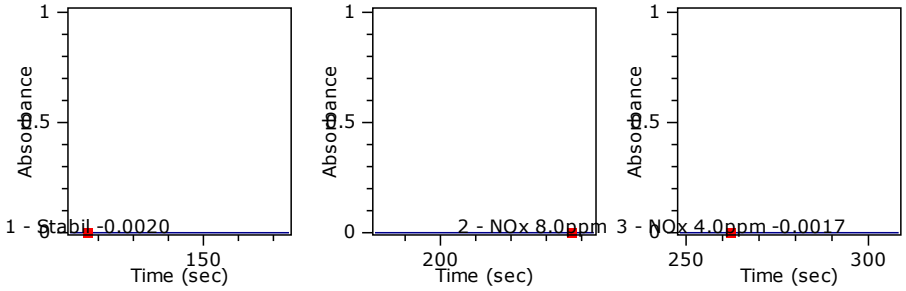

BLANK NO3 0.0003
26 - LCS NO3 5.0425
BLANK NO2 -0.0005
28 - LCS NO2 4.9371
29 - CCV NO3 1.0258
30 - CCV NO2 1.0612
31 - CCB 0.0038
32 - WG2036273/274-1 0.0
33 - WG2036273/274-2 4.995
2036276/280-1 -0.0015
35 - WG2036276/280-2 5.00
2036278/279-1 -0.0002
37 - WG2036278/279-2 4.986
38 - L2511505-01A 0.7173
39 - L2511505-02A 0.2970
40 - L2511505-03A 10.3924
41 - L2511505-04A 6.6251
42 - CCV NO3 1.0093
Absorbance
Time (sec)

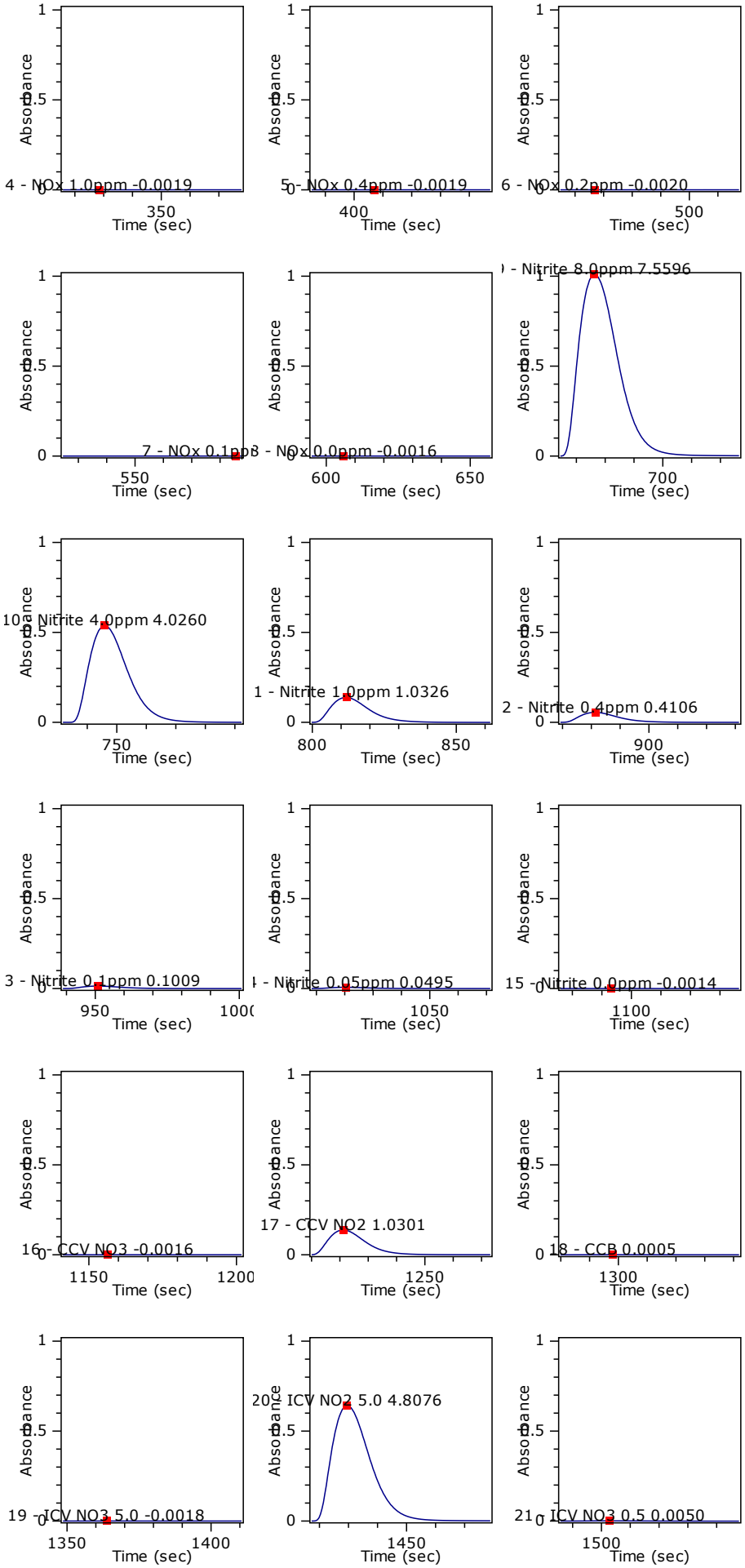

43 - CCV NO2 1.0689
44 - CCB 0.0024
45 - L2511505-05A 0.1191
46 - L2511505-06A 0.0194
47 - L2511505-07A 0.7106
48 - L2511505-08A 3.8850
49 - L2511505-09A 2.0617
50 - L2511529-01M 0.2367
51 - WG2036276/280-3 0.23
52 - WG2036276/280-4 3.82
53 - WG2036273-3 0.2188
54 - WG2036273-4 3.1538
55 - CCV NO3 1.0251
56 - CCV NO2 1.0668
57 - CCB 0.0041
58 - L2511483-14D 0.0196
59 - L2511483-15D 0.0221
60 - L2511483-16D 0.0482
Absorbance
Time (sec)

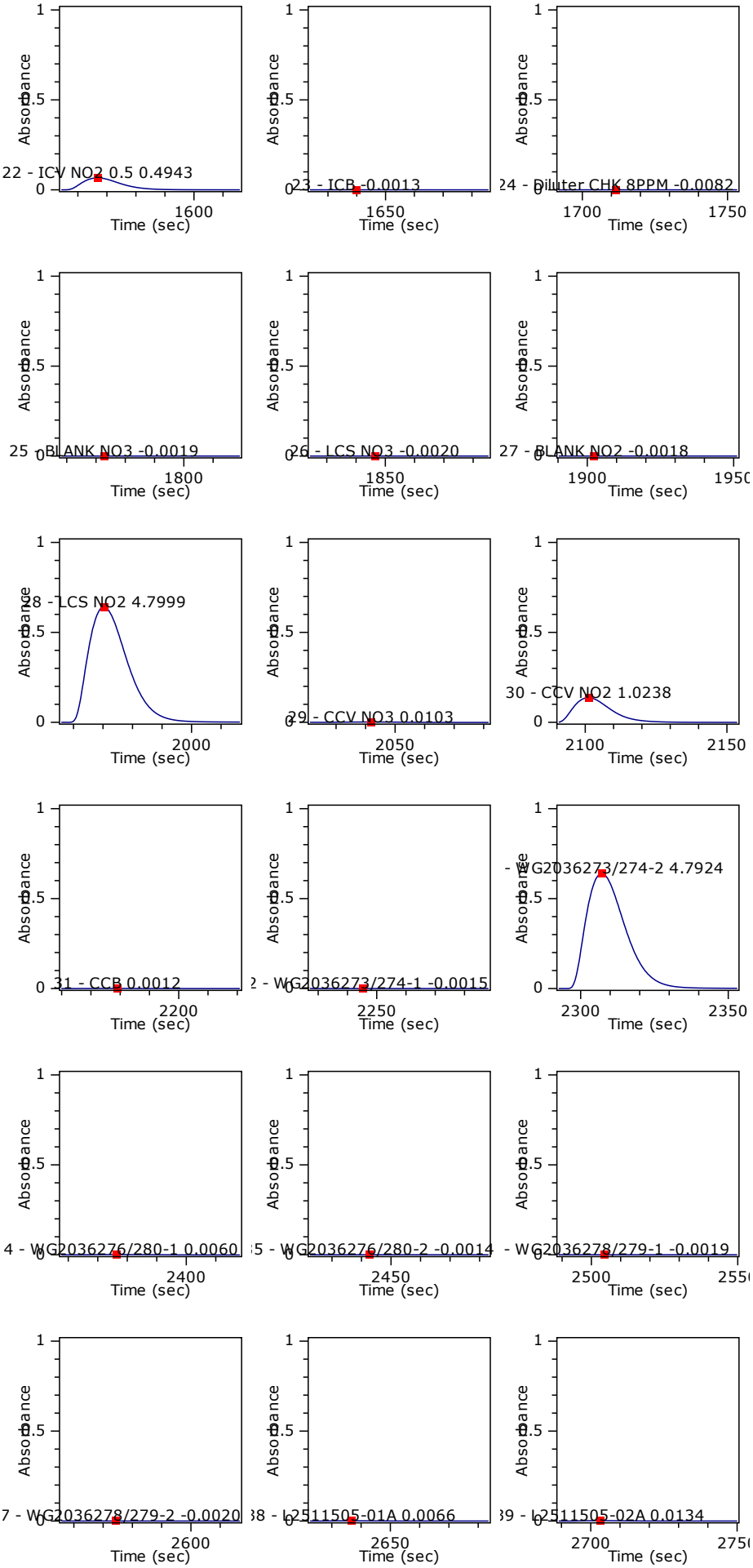

61 - L2511483-17D 0.0233
62 - L2511483-21D 0.0211
63 - L2511483-22D 0.0012
64 - L2511578-01N 0.00
65 - WG2036278-3 0.0015
66 - WG2036278-4 3.9762
'G2036274-3 -0.0004
68 - CCV NO3 1.0423
69 - CCV NO2 1.0557
70 - CCB 0.0044
71 - WG2036274-4 4.1605
72 - L2511549-01H 3.8756
73 - WG2036279-3 3.9068
74 - WG2036279-4 7.4617
75 - L2511229-01A 0.0064
76 - L2511245-01A 2.0976
77 - L2511245-02A 3.3096
78 - L2511245-03A 1.0892
Absorbance
Time (sec)

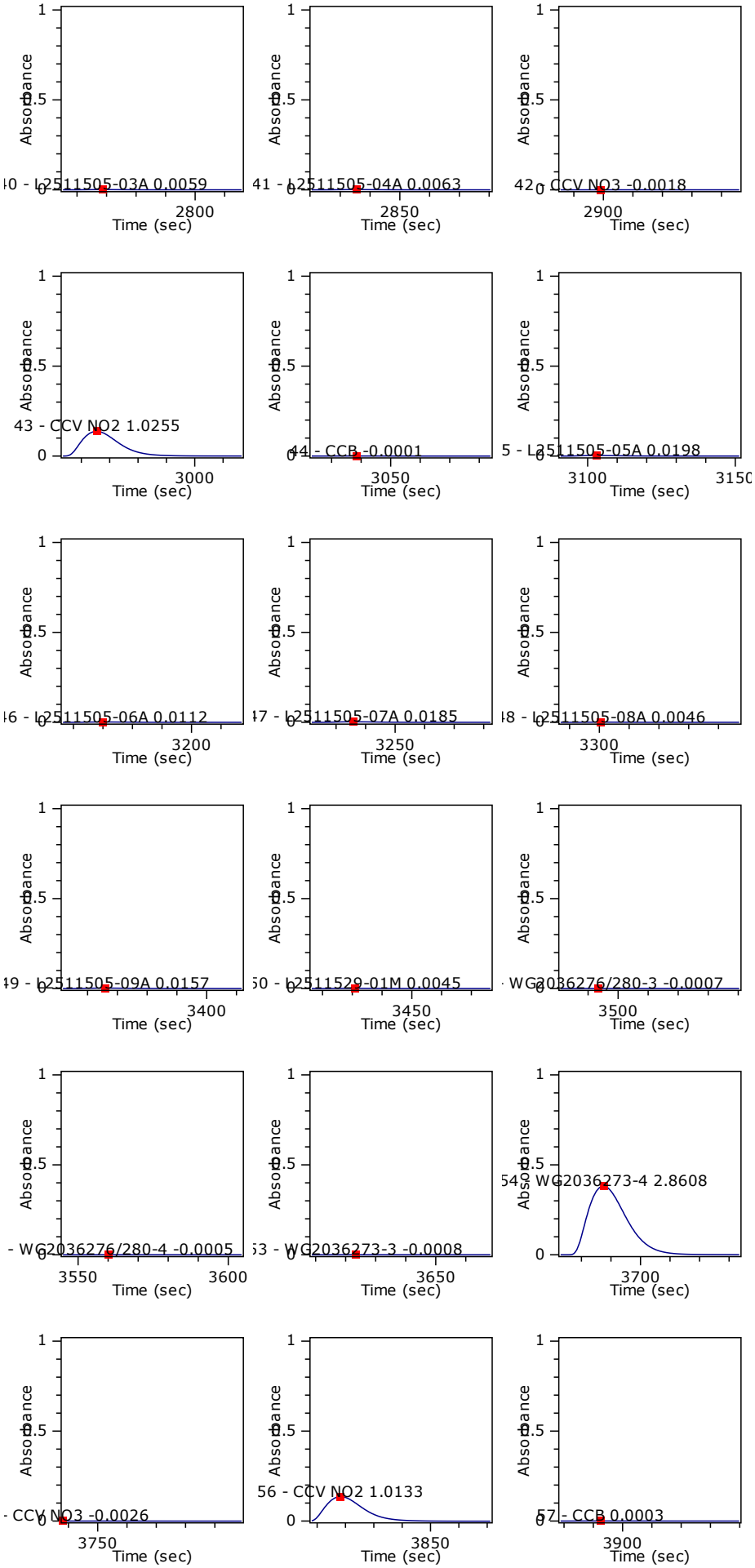


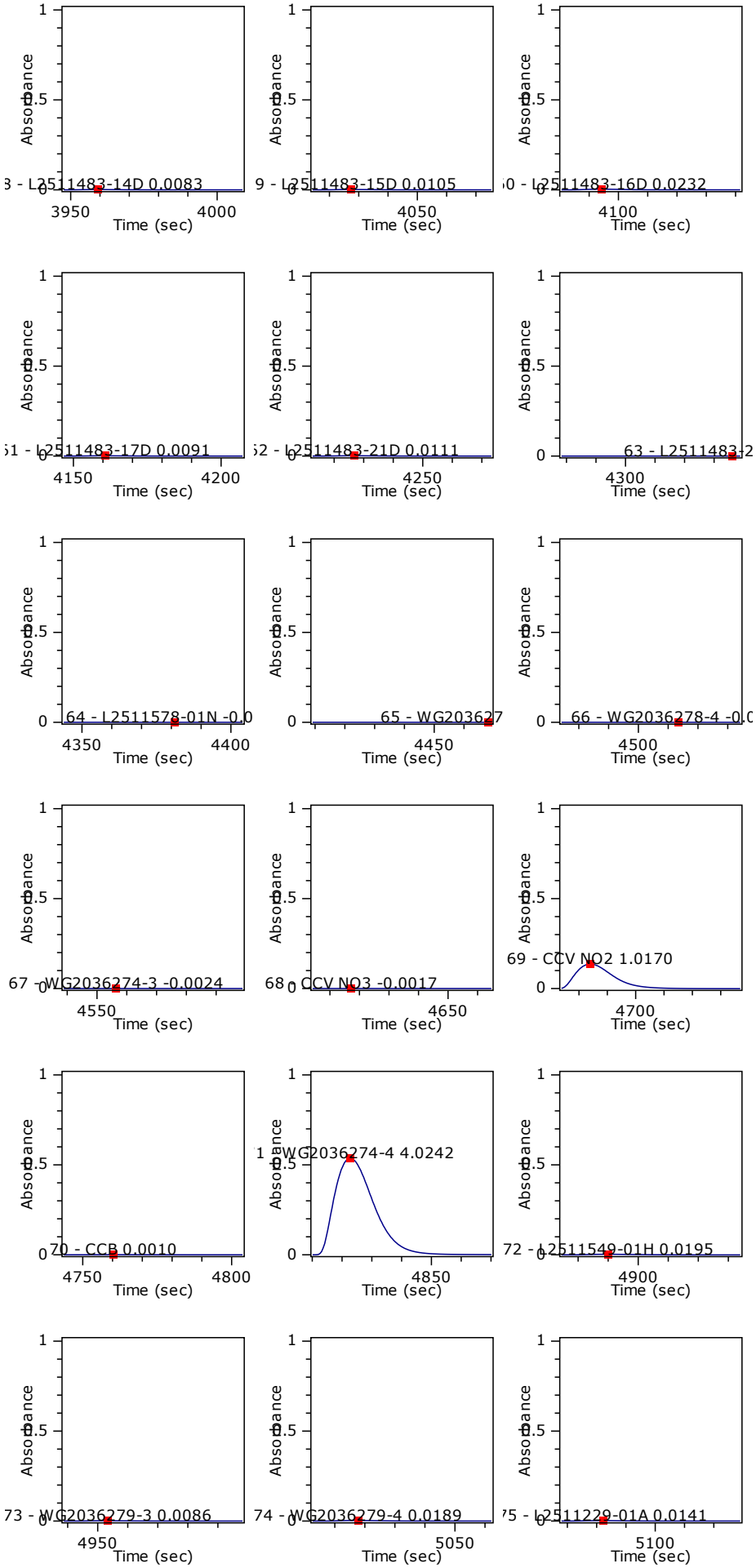
Channel: 2-NO2

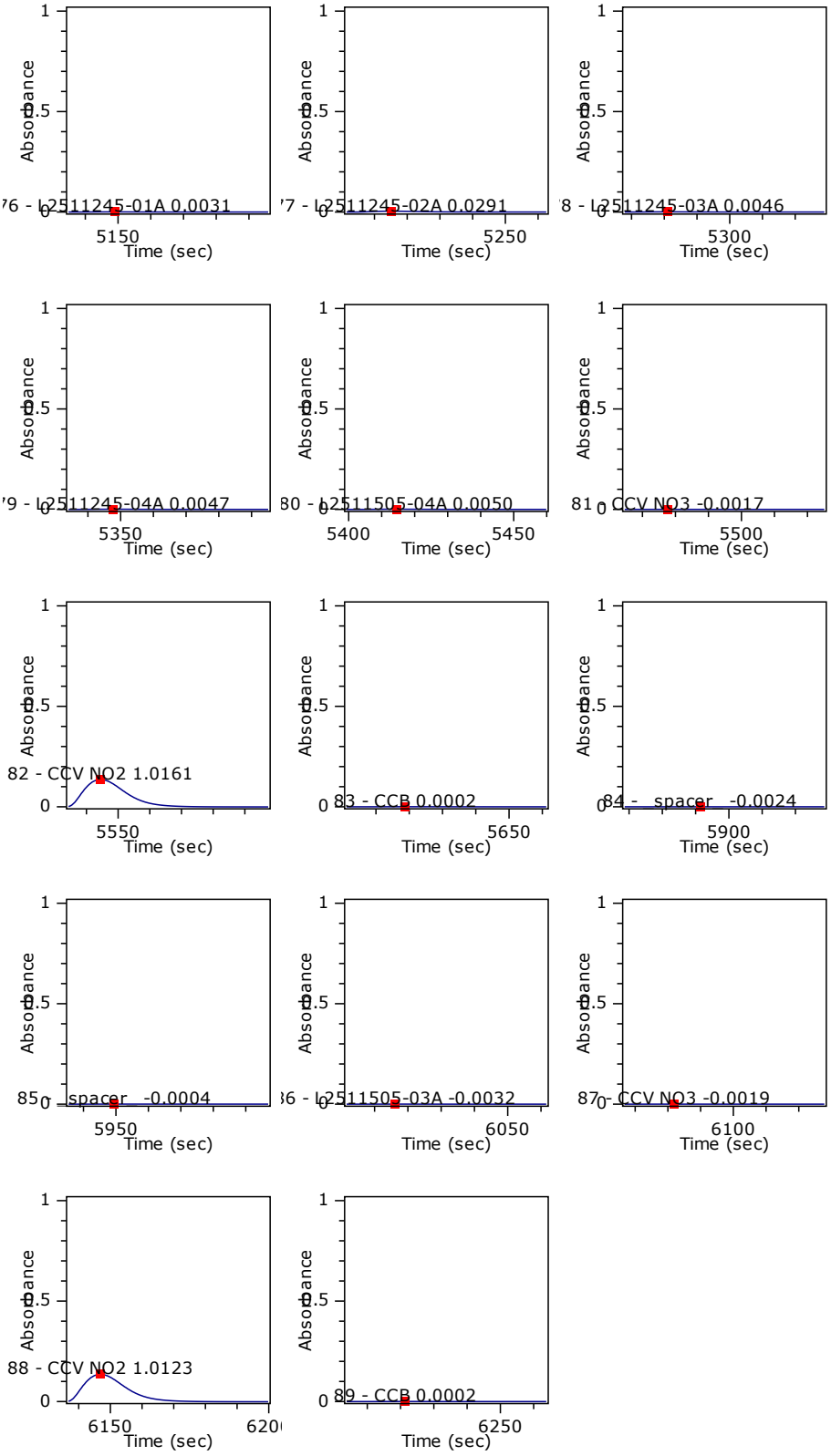



4 - NOx 1.0ppm -0.0019
5 - NOx 0.4ppm -0.0019
6 - NOx 0.2ppm -0.0020
7 - NOx 0.1ppm
8 - NOx 0.0ppm -0.0016
9 - Nitrite 8.0ppm 7.5596
10 - Nitrite 4.0ppm 4.0260
11 - Nitrite 1.0ppm 1.0326
12 - Nitrite 0.4ppm 0.4106
13 - Nitrite 0.1ppm 0.1009
14 - Nitrite 0.05ppm 0.0495
15 - Nitrite 0.0ppm -0.0014
16 - CCV NO3 -0.0016
17 - CCV NO2 1.0301
18 - CCB 0.0005
19 - ICV NO3 5.0 -0.0018
20 - ICV NO2 5.0 4.8076
21 - ICV NO3 0.5 0.0050
Absorbance
Time (sec)


22 - ICV NO2 0.5 0.4943
23 - ICB -0.0013
24 - Diluter CHK 8PPM -0.0082
25 - BLANK NO3 -0.0019
26 - LCS NO3 -0.0020
27 - BLANK NO2 -0.0018
28 - LCS NO2 4.7999
29 - CCV NO3 0.0103
30 - CCV NO2 1.0238
31 - CCB 0.0012
2 - WG2036273/274-1 -0.0015
- WG2036273/274-2 4.7924
4 - WG2036276/280-1 0.0060
5 - WG2036276/280-2 -0.0014
- WG2036278/279-1 -0.0019
7 - WG2036278/279-2 -0.0020
8 - L2511505-01A 0.0066
9 - L2511505-02A 0.0134
Absorbance
Time (sec)


40 - L2511505-03A 0.0059
41 - L2511505-04A 0.0063
42 - CCV NO3 -0.0018
43 - CCV NO2 1.0255
44 - CCB -0.0001
45 - L2511505-05A 0.0198
46 - L2511505-06A 0.0112
47 - L2511505-07A 0.0185
48 - L2511505-08A 0.0046
49 - L2511505-09A 0.0157
50 - L2511529-01M 0.0045
51 - WG2036276/280-3 -0.0007
52 - WG2036276/280-4 -0.0005
53 - WG2036273-3 -0.0008
54 - WG2036273-4 2.8608
55 - CCV NO3 -0.0026
56 - CCV NO2 1.0133
57 - CCB 0.0003
Absorbance
Time (sec)


Absorbance
Time (sec)
3 - L2511483-14D 0.0083
9 - L2511483-15D 0.0105
0 - L2511483-16D 0.0232
51 - L2511483-17D 0.0091
52 - L2511483-21D 0.0111
63 - L2511483-2
64 - L2511578-01N -0.0
65 - WG203627
66 - WG2036278-4 -0.0
67 - WG2036274-3 -0.0024
68 - CCV NO3 -0.0017
69 - CCV NO2 1.0170
70 - CCB 0.0010
71 - WG2036274-4 4.0242
72 - L2511549-01H 0.0195
73 - WG2036279-3 0.0086
74 - WG2036279-4 0.0189
75 - L2511229-01A 0.0141



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0

Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 2.2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 2.1
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2025-03-04T05:32:02

Method
------------
```

```
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

   Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2511529-01		
Matrix Spike	: WG2036273-4	**MS Analysis Date**	: 03/04/25 06:33
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**		**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrite	**ND**	**4**	**2.86**	**72**	**Q**					**80-120**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2511529-01		
Matrix Spike	: WG2036276-4	**MS Analysis Date**	: 03/04/25 06:31
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate	**0.237**	**4**	**3.83**	**90**					**83-113**	**17**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2511529-01		
Matrix Spike	: WG2036280-4	**MS Analysis Date**	: 03/04/25 06:31
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrate/Nitrite	0.24	4	3.8	89					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2511529-01	**Analysis Date**	: 03/04/25 06:29
Dup Sample ID	: WG2036273-3	**DUP Analysis Date**	: 03/04/25 06:32

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrite	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2511529-01	**Analysis Date**	: 03/04/25 06:29
Dup Sample ID	: WG2036276-3	**DUP Analysis Date**	: 03/04/25 06:30

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate	0.237	0.235	1	17

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: WATER
Lab Sample ID	: L2511529-01	**Analysis Date**	: 03/04/25 06:29
Dup Sample ID	: WG2036280-3	**DUP Analysis Date**	: 03/04/25 06:30

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.24	0.23	4	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036273-2	**LCS Analysis Date**	: 03/04/25 06:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrite	5.00	4.79	96.					90-110	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036276-2	**LCS Analysis Date**	: 03/04/25 06:12
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrate	5.00	5.00	100.					90-110	17

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036280-2	**LCS Analysis Date**	: 03/04/25 06:12
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrate/Nitrite	5.00	5.00	100.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date:	Initals:	Syringe Lot:	Syringe Lot: 20230620
030425	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
19	RA1	ICV NO3 5	*Buffer: NO3NO2_022625_BUFFER*
20	RA2	ICV NO2 5	*Color: NO3NO2_021925_COLOR*
21	RA3	ICV NO3 0.5	*NO3 MS: NO3_021425_200PPM_CAL*
22	RA4	ICV NO2 0.5	*NO2 MS: NO2_021425_200PPM_CAL*
23	RA5	ICB	*ICV NO3 5: NO3_022725_5PPM_ICV*
24	RA6	5X DILUTER CHECK	*ICV NO2 5: NO2_030125_5PPM_ICV*
25	RA7	BLANK NO3	*ICV NO3 0.5: NO3_030425_0.5PPM_ICV*
26	RA8	LCS NO3	*ICV NO2 0.5: NO2_030425_0.5PPM_ICV*
27	RA9	BLANK NO2	
28	RA10	LCS NO2	*OOH*
32	RA11	WG2036273/274-1; NO2	*DW*
33	RA12	WG2036273/274-2; NO2	GOING OOH
34	RA13	WG2036276/280-1; NO3	FIELD BLANK
35	RA14	WG2036276/280-2; NO3	
36	RA15	WG2036278/279-1; NO3	
37	RA16	WG2036278/279-2; NO3	
38	RA17	L2511505-01	
39	RA18	L2511505-02	
40; 86	RA19	L2511505-03	
41; 80	RA20	L2511505-04	
45	RA21	L2511505-05	
46	RA22	L2511505-06	
47	RA23	L2511505-07	
48	RA24	L2511505-08	
49	RA25	L2511505-09	
50	RA26	L2511529-01	
51	RA27	WG2036276/280-3; NO3	
52	RA28	WG2036276/280-4; NO3	
53	RA29	WG2036273-3; NO2	
54	RA30	WG2036273-4; NO2	
58	RA31	L2511483-14	
59	RA32	L2511483-15	
60	RA33	L2511483-16	
61	RA34	L2511483-17	
62	RA35	L2511483-21	
63	RA36	L2511483-22	
64	RA37	L2511578-01	
65	RA38	WG2036278-3; NO3	
66	RA39	WG2036278-4; NO3	
67	RA40	WG2036274-3; NO2	
71	RA41	WG2036274-4; NO2	
72	RA42	L2511549-01	
73	RA43	WG2036279-3; CNO3	

Injection #	Rack #	Sample ID:	Comments:
74	RA44	WG2036279-4; NO3	
75	RA45	L2511229-01	
76	RA46	L2511245-01	
77	RA47	L2511245-02	
78	RA48	L2511245-03	
79	RA49	L2511245-04	

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/05/25 00:55
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2036703.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	160	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036703-1	**Date Collected**	: NA
Client ID	: WG2036703-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/25 00:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG2036703.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2036703-3	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11DDUP	**Date Received**	:	03/03/25
Sample Location	:		**Date Analyzed**	:	03/05/25 00:55
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG2036703.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	110	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: MAR-07-25 04:06:01

WorkGroup	WG2036703	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	06-MAR-25 07:45	**Time In**	07-MAR-25 01:23	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	07-MAR-25 00:20	**Time Out**	07-MAR-25 03:56	**Time Out**		**Time Out**		**Time Out**					
		Evaporation	**Temp In (C)** 90	**Time In** 05-MAR-25 05:59								**LCS Lot #** 012925C	**TrueValue** 500	**Units** mg/l	

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2511237-01	05-MAR-25 00:55	DEB WHELAN	MB	77340422	142.3697	80	142.3711	142.3709				15.00	1.3	
L2511428-09	05-MAR-25 00:55	DEB WHELAN	X11	77340422	70.064	80	70.1081	70.1085				551.25	1.3	
L2511529-01	05-MAR-25 00:55	DEB WHELAN	L10	77340422	68.3267	80	68.3391	68.3394				155.00	1.3	
L2511634-01	05-MAR-25 00:55	DEB WHELAN	V5	77340422	68.6422	100	68.7389	68.7385				963.00	1	
L2511634-02	05-MAR-25 00:55	DEB WHELAN	V6	77340422	70.9095	100	71.0007	71.0006				911.00	1	
L2511799-01	05-MAR-25 00:55	DEB WHELAN	V88	77340422	62.4567	80	62.5019	62.5022				565.00	1.3	
L2511799-02	05-MAR-25 00:55	DEB WHELAN	V7	77340422	70.6483	80	70.6661	70.6664				222.50	1.3	
L2511799-03	05-MAR-25 00:55	DEB WHELAN	X9	77340422	60.9469	80	60.9692	60.9693				278.75	1.3	
L2511799-04	05-MAR-25 00:55	DEB WHELAN	V9	77340422	65.0301	80	65.0414	65.041				136.25	1.3	
L2511799-10	05-MAR-25 00:55	DEB WHELAN	X8	77340422	65.1938	80	65.2173	65.2172				292.50	1.3	
WG2036703-1	05-MAR-25 00:55	DEB WHELAN	BQ2	77340422	125.9493	100	125.9497	125.9493				0.00	1	
WG2036703-2	05-MAR-25 00:55	DEB WHELAN	PS	77340422	135.433	50	135.4603	135.4599				538.00	2	
WG2036703-3	05-MAR-25 00:55	DEB WHELAN	BI	77340422	106.6078	80	106.6164	106.6167				107.50	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-11D	**Matrix**	: DW
Lab Sample ID	: L2511529-01	**Analysis Date**	: 03/05/25 00:55
Dup Sample ID	: WG2036703-3	**DUP Analysis Date**	: 03/05/25 00:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	160	110	37 Q	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: WG2036703-2	**LCS Analysis Date**	: 03/05/25 00:55
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**540.**	**108.**					**80-120**	**10**

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Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

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

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 12:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2038583.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/10/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	28.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038583-1	**Date Collected**	: NA
Client ID	: WG2038583-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/10/25 12:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2038583.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/10/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2038583-3	**Date Collected**	:	03/04/25 10:57
Client ID	:	WG2038583-3 DUP	**Date Received**	:	03/04/25
Sample Location	:		**Date Analyzed**	:	03/10/25 12:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2038583.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/10/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	9.8	10	1.4	J

Sample Raw Data

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;R-4295
LCS;R-4296

Sample Number: _____ **Product: SO4-4500** **Reagent;lot A4320**
Curve Calibration Date : 03/10/25
Client: _____ **Curve Identifier:** 3/10/2025
Analysis: Sulfate, SO4 **Analysis Analyte: Sulfate**
Method: SM 4500SO4-E **Analysis Date:** 3/10/2025 12:50
Instrument: SPEC6 **Preparation Date:** 3/10/2025 12:50
Wavelength: 420 nm **Technician:** MRW
Spike Volume(ml): 0.5 **Work group:** WG2038583
Spike Concentration (mg/l): 1000 **RL: 10 mg/l**
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.70
10	0.138	1.0	8.42
20	0.355	1.0	19.0
40	0.806	1.0	40.9

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.020557	-0.035

Correlation Coefficient
0.995857

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.003	0.003	1.978	1	1.0	2.0	**Recovery**
	ICV	25	25	0	0.371	0.371	19.731	1	1.0	19.7	99%
	L2511529-01	25	25	0.056	0.601	0.545	28.125	1	1.0	28.1	
SAMP	L2511919-01	25	25	0.005	0.246	0.241	13.460	1	1.0	13.5	
SAMP	L2511919-02	25	25	0.002	0.33	0.328	17.657	1	1.0	17.7	
SAMP	L2511919-04	25	25	0.004	0.142	0.138	8.491	1	1.0	8.5	
SAMP	L2511919-05	25	25	0.011	0.296	0.285	15.582	1	1.0	15.6	
SAMP	L2511919-07	25	25	0.002	0.311	0.309	16.740	1	1.0	16.7	
SAMP	L2511919-08	25	25	0.008	0.285	0.277	15.196	1	1.0	15.2	
	L2511944-01	25	25	0.005	0.13	0.125	7.864	1	1.0	7.9	
	CCV1	25	25	0	0.366	0.366	19.490	1	1.0	19.5	
	CCB1	25	25	0	0.004	0.004	2.026	1	1.0	2.0	
	L2511944-02	25	25	0.02	0.076	0.056	4.535	1	1.0	4.5	
	L2511944-03	25	25	0.036	0.431	0.395	20.889	1	1.0	20.9	
	L2511944-04	25	25	0.012	0.798	0.786	39.752	1	1.0	39.8	
	L2511944-05	25	25	0.005	0.204	0.199	11.433	1	1.0	11.4	
	L2511944-06	25	25	0.003	0.153	0.150	9.070	1	1.0	9.1	
	L2511944-07	25	25	0.021	0.295	0.274	15.052	1	1.0	15.1	
	L2511944-08	25	25	0.001	0.159	0.158	9.456	1	1.0	9.5	
	L2511944-09	25	25	0	0.003	0.003	1.978	1	1.0	2.0	
SAMP	L2512325-01	25	25	0.003	0.29	0.287	15.679	1	1.0	15.7	
SAMP	L2512325-03	25	25	0.015	0.18	0.165	9.793	1	1.0	9.8	
	CCV2	25	25	0	0.359	0.359	19.152	1	1.0	19.2	
	CCB2	25	25	0	0.004	0.004	2.026	1	1.0	2.0	
SAMP	L2512325-04	25	25	0.005	0.659	0.654	33.384	1	1.0	33.4	
SAMP	L2512325-05	25	25	0.007	0.289	0.282	15.438	1	1.0	15.4	
	CCV3	25	25	0	0.354	0.354	18.911	1	1.0	18.9	
	CCB3	25	25	0	0.005	0.005	2.074	1	1.0	2.1	
BLANK	WG2038583-1	25	25	0.000	0.003	0.003	1.978	1	1.0	2.0	
DUP	WG2038583-3	25	25	0.002	0.167	0.165	9.793	1	1.0	9.8	**L2511944-06**

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG2038583-4	12.5	25	0.002	0.544	0.542	0.000	12.5	40.0000	56	140
											L2511944-06
LCS	WG2038583-2	25	25	0	0.371	0.371		1	20.0000	20	99

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511944-06		
Matrix Spike	: WG2038583-4	**MS Analysis Date**	: 03/10/25 12:50
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	9.1J	40	56.	140					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/10/25 12:50
Dup Sample ID	: WG2038583-3	**DUP Analysis Date**	: 03/10/25 12:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	9.1J	9.8J	NC	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2038583-2	**LCS Analysis Date**	: 03/10/25 12:50
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Sulfate	20.0	20.0	100.					90-110	14

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Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

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

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File: PM11468-1
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/06/25 10:43
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	250306_CSV.csv	**Instrument ID**	:	TITR5
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	37.3	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037359-1	**Date Collected**	: NA
Client ID	: WG2037359-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/25 11:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 250306_CSV.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037359-3	**Date Collected**	: 03/04/25 10:57
Client ID	: WG2037359-3 DUP	**Date Received**	: 03/04/25
Sample Location	:	**Date Analyzed**	: 03/06/25 11:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 250306_CSV.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	58.2	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	7.140	pH		-57.14	mV/pH						

Results Editor

LabX

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.05	pH		3/6/2025 7:	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	6.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.034 mL	OK
		Consumption 4.2 R3	1.038 mL	OK
		Content R5	20.680 mg/L	OK
		ALK LOW R6	20.600 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.018 mL	OK
		Consumption 4.2 R3	0.025 mL	OK
		Content R5	0.360 mg/L	OK
		ALK LOW R6	0.220 mg/L	OK
3	WG2037241-1	Sample size	50 mL	
		Potential R4	4.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.002 mL	OK
		Consumption 4.2 R3	0.011 mL	OK
		Content R5	0.040 mg/L	OK
		ALK LOW R6	-0.140 mg/L	OK
4	WG2037241-2	Sample size	50 mL	
		Potential R4	10.52 pH	OK
		Consumption 8.3 R1	4.647 mL	OK
		Consumption 4.5 R2	5.028 mL	OK
		Consumption 4.2 R3	5.034 mL	OK
		Content R5	100.560 mg/L	OK
		ALK LOW R6	100.440 mg/L	OK
5	I2512005-01	Sample size	50 mL	
		Potential R4	5.03 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
6	WG2037241-3	Sample size	50 mL	

Titration report

		Potential R4	5.79 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.464 mL	OK
		Consumption 4.2 R3	2.510 mL	OK
		Content R5	49.280 mg/L	OK
		ALK LOW R6	48.360 mg/L	OK
7	WG2037241-4	Sample size	50 mL	
		Potential R4	9.23 pH	OK
		Consumption 8.3 R1	3.106 mL	OK
		Consumption 4.5 R2	7.912 mL	OK
		Consumption 4.2 R3	7.931 mL	OK
		Content R5	158.240 mg/L	OK
		ALK LOW R6	157.860 mg/L	OK
8	I2512005-02	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.183 mL	OK
		Consumption 4.2 R3	2.228 mL	OK
		Content R5	43.660 mg/L	OK
		ALK LOW R6	42.760 mg/L	OK
9	I2512005-03	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.769 mL	OK
		Consumption 4.2 R3	2.826 mL	OK
		Content R5	55.380 mg/L	OK
		ALK LOW R6	54.240 mg/L	OK
10	I2512005-04	Sample size	50 mL	
		Potential R4	5.98 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.834 mL	OK
		Consumption 4.2 R3	4.882 mL	OK
		Content R5	96.680 mg/L	OK
		ALK LOW R6	95.720 mg/L	OK
11	I2512005-01	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.587 mL	OK
		Consumption 4.2 R3	2.628 mL	OK
		Content R5	51.740 mg/L	OK
		ALK LOW R6	50.920 mg/L	OK
12	I2511497-01	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.472 mL	OK
		Consumption 4.2 R3	2.529 mL	OK
		Content R5	49.440 mg/L	OK

Titration report

		ALK LOW R6	48.300 mg/L	OK
13	I2511497-11	Sample size	50 mL	
		Potential R4	5.41 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.986 mL	OK
		Consumption 4.2 R3	2.043 mL	OK
		Content R5	39.720 mg/L	OK
		ALK LOW R6	38.580 mg/L	OK
14	I2511497-12	Sample size	50 mL	
		Potential R4	5.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.801 mL	OK
		Consumption 4.2 R3	0.849 mL	OK
		Content R5	16.020 mg/L	OK
		ALK LOW R6	15.060 mg/L	OK
15	I2511497-13	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.646 mL	OK
		Consumption 4.2 R3	2.714 mL	OK
		Content R5	52.920 mg/L	OK
		ALK LOW R6	51.560 mg/L	OK
16	I2511497-14	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.963 mL	OK
		Consumption 4.2 R3	2.013 mL	OK
		Content R5	39.260 mg/L	OK
		ALK LOW R6	38.260 mg/L	OK
17	I2511509-01	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.880 mL	OK
		Consumption 4.2 R3	0.907 mL	OK
		Content R5	17.600 mg/L	OK
		ALK LOW R6	17.060 mg/L	OK
18	I2511509-02	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.556 mL	OK
		Consumption 4.2 R3	0.581 mL	OK
		Content R5	11.120 mg/L	OK
		ALK LOW R6	10.620 mg/L	OK
19	I2511533-01	Sample size	50 mL	
		Potential R4	5.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.744 mL	OK

Titration report

LabX

		Consumption 4.2 R3	1.772 mL	OK
		Content R5	34.880 mg/L	OK
		ALK LOW R6	34.320 mg/L	OK
20	WG2037287-3	Sample size	50 mL	
		Potential R4	5.45 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.729 mL	OK
		Consumption 4.2 R3	1.757 mL	OK
		Content R5	34.580 mg/L	OK
		ALK LOW R6	34.020 mg/L	OK
21	WG2037287-4	Sample size	50 mL	
		Potential R4	10.40 pH	OK
		Consumption 8.3 R1	5.992 mL	OK
		Consumption 4.5 R2	7.376 mL	OK
		Consumption 4.2 R3	7.384 mL	OK
		Content R5	147.520 mg/L	OK
		ALK LOW R6	147.360 mg/L	OK
22	I2511799-01	Sample size	50 mL	
		Potential R4	5.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
23	I2511799-02	Sample size	50 mL	
		Potential R4	6.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.232 mL	OK
		Consumption 4.2 R3	6.296 mL	OK
		Content R5	124.640 mg/L	OK
		ALK LOW R6	123.360 mg/L	OK
24	I2511799-03	Sample size	50 mL	
		Potential R4	5.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.591 mL	OK
		Consumption 4.2 R3	3.651 mL	OK
		Content R5	71.820 mg/L	OK
		ALK LOW R6	70.620 mg/L	OK
25	I2511799-04	Sample size	50 mL	
		Potential R4	5.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.873 mL	OK
		Consumption 4.2 R3	1.916 mL	OK
		Content R5	37.460 mg/L	OK
		ALK LOW R6	36.600 mg/L	OK
26	I2511799-10	Sample size	50 mL	
		Potential R4	5.63 pH	OK

Titration report

LabX

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.514 mL	OK
		Consumption 4.2 R3	3.571 mL	OK
		Content R5	70.280 mg/L	OK
		ALK LOW R6	69.140 mg/L	OK
27	I2511799-11	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.658 mL	OK
		Consumption 4.2 R3	2.727 mL	OK
		Content R5	53.160 mg/L	OK
		ALK LOW R6	51.780 mg/L	OK
28	I2511799-12	Sample size	50 mL	
		Potential R4	5.19 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.715 mL	OK
		Consumption 4.2 R3	0.761 mL	OK
		Content R5	14.300 mg/L	OK
		ALK LOW R6	13.380 mg/L	OK
29	I2511799-13	Sample size	50 mL	
		Potential R4	5.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.364 mL	OK
		Consumption 4.2 R3	1.397 mL	OK
		Content R5	27.280 mg/L	OK
		ALK LOW R6	26.620 mg/L	OK
30	I2511799-14	Sample size	50 mL	
		Potential R4	5.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.124 mL	OK
		Consumption 4.2 R3	1.146 mL	OK
		Content R5	22.480 mg/L	OK
		ALK LOW R6	22.040 mg/L	OK
31	I2511799-15	Sample size	50 mL	
		Potential R4	5.33 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.151 mL	OK
		Consumption 4.2 R3	1.172 mL	OK
		Content R5	23.020 mg/L	OK
		ALK LOW R6	22.600 mg/L	OK
32	I2511799-16	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.119 mL	OK
		Consumption 4.2 R3	1.140 mL	OK
		Content R5	22.380 mg/L	OK
		ALK LOW R6	21.960 mg/L	OK

Titration report

33	I2511799-17	Sample size	50 mL	
		Potential R4	5.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.132 mL	OK
		Consumption 4.2 R3	1.150 mL	OK
		Content R5	22.640 mg/L	OK
		ALK LOW R6	22.280 mg/L	OK
34	I2511799-01 2x	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.361 mL	OK
		Consumption 4.2 R3	11.425 mL	OK
		Content R5	227.220 mg/L	OK
		ALK LOW R6	225.940 mg/L	OK
35	WG2037287-2	Sample size	50 mL	
		Potential R4	10.44 pH	OK
		Consumption 8.3 R1	4.669 mL	OK
		Consumption 4.5 R2	5.018 mL	OK
		Consumption 4.2 R3	5.018 mL	OK
		Content R5	100.360 mg/L	OK
		ALK LOW R6	100.360 mg/L	OK
36	WG2037287-1	Sample size	50 mL	
		Potential R4	4.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.026 mL	OK
		Consumption 4.2 R3	0.037 mL	OK
		Content R5	0.520 mg/L	OK
		ALK LOW R6	0.300 mg/L	OK
37	I2511529-01	Sample size	50 mL	
		Potential R4	5.29 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.864 mL	OK
		Consumption 4.2 R3	1.891 mL	OK
		Content R5	37.280 mg/L	OK
		ALK LOW R6	36.740 mg/L	OK
38	I2511919-01	Sample size	50 mL	
		Potential R4	5.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.317 mL	OK
		Consumption 4.2 R3	3.342 mL	OK
		Content R5	66.340 mg/L	OK
		ALK LOW R6	65.840 mg/L	OK
39	I2511919-02	Sample size	50 mL	
		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.290 mL	OK
		Consumption 4.2 R3	3.329 mL	OK

Titration report

LabX

		Content R5	65.800 mg/L	OK
		ALK LOW R6	65.020 mg/L	OK
40	I2511919-04	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.014 mL	OK
		Consumption 4.2 R3	4.055 mL	OK
		Content R5	80.280 mg/L	OK
		ALK LOW R6	79.460 mg/L	OK
41	I2511919-05	Sample size	50 mL	
		Potential R4	5.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.862 mL	OK
		Consumption 4.2 R3	3.901 mL	OK
		Content R5	77.240 mg/L	OK
		ALK LOW R6	76.460 mg/L	OK
42	I2511919-07	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.295 mL	OK
		Consumption 4.2 R3	3.331 mL	OK
		Content R5	65.900 mg/L	OK
		ALK LOW R6	65.180 mg/L	OK
43	I2511919-08	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.563 mL	OK
		Consumption 4.2 R3	2.586 mL	OK
		Content R5	51.260 mg/L	OK
		ALK LOW R6	50.800 mg/L	OK
44	I2511944-01	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.879 mL	OK
		Consumption 4.2 R3	4.975 mL	OK
		Content R5	97.580 mg/L	OK
		ALK LOW R6	95.660 mg/L	OK
45	I2511944-02	Sample size	50 mL	
		Potential R4	5.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.215 mL	OK
		Consumption 4.2 R3	1.266 mL	OK
		Content R5	24.300 mg/L	OK
		ALK LOW R6	23.280 mg/L	OK
46	I2511944-03	Sample size	50 mL	
		Potential R4	5.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

		Consumption 4.5 R2	2.115 mL	OK
		Consumption 4.2 R3	2.135 mL	OK
		Content R5	42.300 mg/L	OK
		ALK LOW R6	41.900 mg/L	OK
47	I2511944-04	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.565 mL	OK
		Consumption 4.2 R3	12.753 mL	OK
		Content R5	251.300 mg/L	OK
		ALK LOW R6	247.540 mg/L	OK
48	I2511944-05	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.015 mL	OK
		Consumption 4.2 R3	1.030 mL	OK
		Content R5	20.300 mg/L	OK
		ALK LOW R6	20.000 mg/L	OK
49	I2511944-06	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.895 mL	OK
		Consumption 4.2 R3	2.927 mL	OK
		Content R5	57.900 mg/L	OK
		ALK LOW R6	57.260 mg/L	OK
50	WG2037359-3	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.910 mL	OK
		Consumption 4.2 R3	2.934 mL	OK
		Content R5	58.200 mg/L	OK
		ALK LOW R6	57.720 mg/L	OK
51	I2511944-07	Sample size	50 mL	
		Potential R4	5.46 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.554 mL	OK
		Consumption 4.2 R3	1.579 mL	OK
		Content R5	31.080 mg/L	OK
		ALK LOW R6	30.580 mg/L	OK
52	I2511944-08	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.968 mL	OK
		Consumption 4.2 R3	3.000 mL	OK
		Content R5	59.360 mg/L	OK
		ALK LOW R6	58.720 mg/L	OK
53	I2511944-09	Sample size	50 mL	

Titration report

		Potential R4	5.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.060 mL	OK
		Consumption 4.2 R3	0.090 mL	OK
		Content R5	1.200 mg/L	OK
		ALK LOW R6	0.600 mg/L	OK
54	I2511944-09 CONF	Sample size	50 mL	
		Potential R4	4.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.023 mL	OK
		Consumption 4.2 R3	0.048 mL	OK
		Content R5	0.460 mg/L	OK
		ALK LOW R6	-0.040 mg/L	OK
55	CCV	Sample size	50 mL	
		Potential R4	10.61 pH	OK
		Consumption 8.3 R1	4.719 mL	OK
		Consumption 4.5 R2	5.072 mL	OK
		Consumption 4.2 R3	5.076 mL	OK
		Content R5	101.440 mg/L	OK
		ALK LOW R6	101.360 mg/L	OK
56	WG2037359-1	Sample size	50 mL	
		Potential R4	5.08 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.032 mL	OK
		Consumption 4.2 R3	0.037 mL	OK
		Content R5	0.640 mg/L	OK
		ALK LOW R6	0.540 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	5.992 mL	**Minimum**	3.106 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	56	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	12.565 mL	**Minimum**	0.002 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	56	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	12.753 mL	**Minimum**	0.011 mL

Titration report

Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	56	**Samples excluded**	0

R4

Mean	5.89 pH		
Maximum	10.61 pH	**Minimum**	4.43 pH
Standard deviation	1.43 pH	**Rel. standard deviation**	24.217 %
Total samples	56	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	251.300 mg/L	**Minimum**	0.040 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	56	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	247.540 mg/L	**Minimum**	-0.140 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	56	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
3/6/2025 7:22:06 AM	SystemInternal	System internal account

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/06/25 11:15
Dup Sample ID	: WG2037359-3	**DUP Analysis Date**	: 03/06/25 11:18

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	57.9	58.2	1	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

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

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	250306	LCS 7.00	7.05	INT:	mkt
pH 4	3484	Titrant:	4298		
pH 7	3386	LCS:	3530		
pH 10	3482	MS:	3529		
LCS	3523				

1	Rinse,MKT	42	l2511919-07
2	Rinse,MKT	43	l2511919-08
3	WG2037241-1	44	l2511944-01
4	WG2037241-2	45	l2511944-02
5	l2512005-01	46	l2511944-03
6	WG2037241-3	47	l2511944-04
7	WG2037241-4	48	l2511944-05
8	l2512005-02	49	l2511944-06
9	l2512005-03	50	WG2037359-3
10	l2512005-04	51	l2511944-07
11	l2512005-01	52	l2511944-08
12	l2511497-01	53	l2511944-09
13	l2511497-11	54	l2511944-09 CONF
14	l2511497-12	55	CCV
15	l2511497-13	56	WG2037359-1
16	l2511497-14		
17	l2511509-01		
18	l2511509-02		
19	l2511533-01		
20	WG2037287-3		
21	WG2037287-4		
22	l2511799-01		
23	l2511799-02		
24	l2511799-03		
25	l2511799-04		
26	l2511799-10		
27	l2511799-11		
28	l2511799-12		
29	l2511799-13		
30	l2511799-14		
31	l2511799-15		
32	l2511799-16		
33	l2511799-17		
34	l2511799-01 2x		
35	WG2037287-2		
36	WG2037287-1		
37	l2511529-01		
38	l2511919-01		
39	l2511919-02		
40	l2511919-04		
41	l2511919-05		

Chloride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/04/25 15:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250304-A	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	13.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036502-1	**Date Collected**	: NA
Client ID	: WG2036502-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/04/25 13:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL250304-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036502-3	**Date Collected**	: 02/27/25 10:00
Client ID	: WG2036502-3 DUP	**Date Received**	: 02/27/25
Sample Location	:	**Date Analyzed**	: 03/04/25 14:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL250304-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	9.4	1.0	0.89	

Sample Raw Data

Author: Date : 3/4/2025

Original Run Filename: OM_3-4-2025_01-22-49PM.OMN Created: 3/4/2025 1:22:49 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_3-4-2025_01-22-49PM.OMN Last Modified: 3/4/2025 3:47:31 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

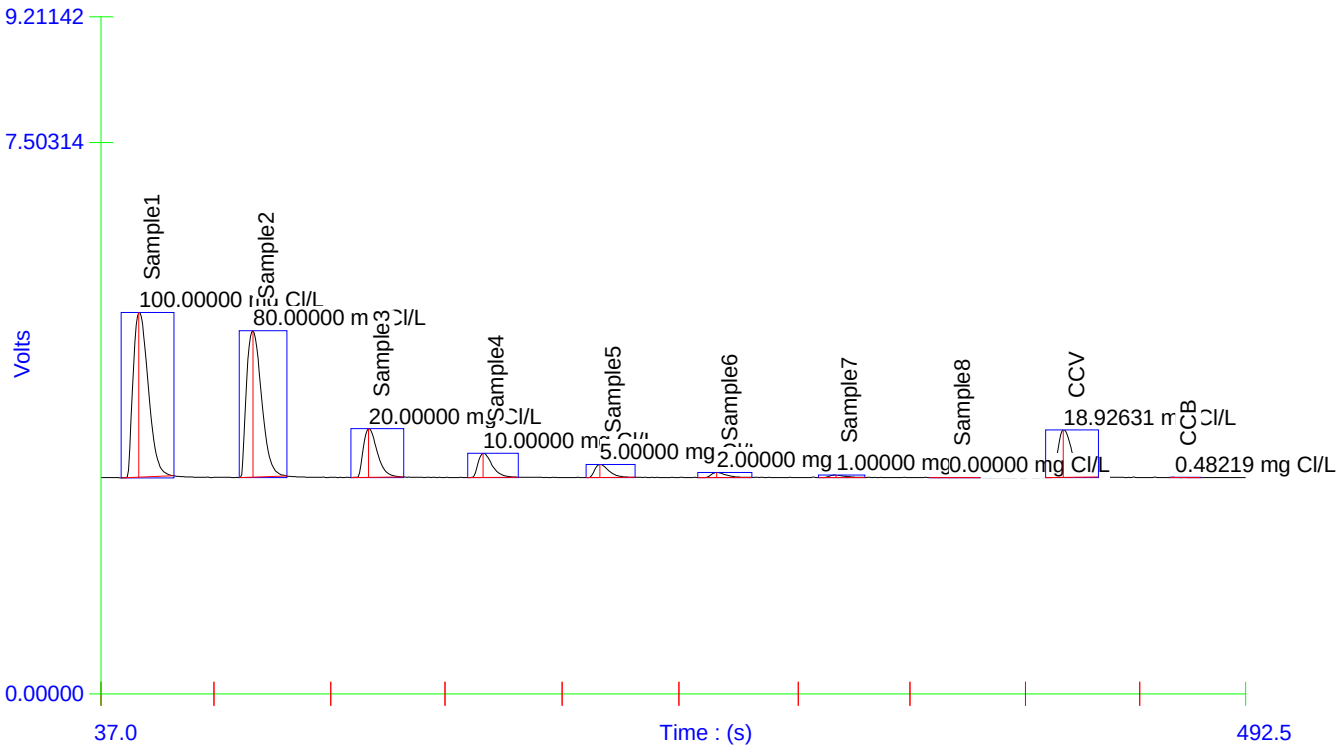
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
Sample1	1	S1	100.00000				
Sample2	1	S2	80.00000				
Sample3	1	S3	20.00000				
Sample4	1	S4	10.00000				
Sample5	1	S5	5.00000				
Sample6	1	S6	2.00000				
Sample7	1	S7	1.00000				
Sample8	1	S9	0.00000				
CCV	1	S3	18.92631				
	Known Conc:		20.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S9	0.48219				
	Known Conc:		0.00000				
ICV 5	1	1	5.51185				110%
ICV 30	1	2	32.27996				108%
ICV 80	1	3	82.63735				103%
ICB	1	4	0.57445				
100 PPM	1	5	100.27806	10.00			100%
WG2036500-1	1	6	0.57652				
WG2036500-2	1	7	34.97511				
WG2036501-1	1	8	0.65331				
WG2036501-2	1	9	35.57110				
WG2036502-1	1	10	0.64473				
CCV	1	S3	18.88631				
	Known Conc:		20.00000				
CCB	1	S9	0.52119				
	Known Conc:		0.00000				
WG2036502-2	1	11	28.58009				95%
WG2036500-2	1	7	28.62220				95%
WG2036501-2	1	9	29.39241				98%
L2510637-05	1	12	110.16297				
L2510637-09	1	13	77.32981				
L2510637-10	1	14	221.48210				
L2510637-12	1	15	132.91165				
L2510730-01	1	16	324.41327				
L2510730-02	1	17	314.70367				
L2510730-03	1	18	2446.86206	10.00			
CCV	1	S3	20.12013				
	Known Conc:		20.00000				
CCB	1	S9	0.58946				
	Known Conc:		0.00000				
L2511314-01	1	19	512.44458				
L2511359-01	1	20	17.58451				
WG2036500-3	1	21	8.37924				
WG2036500-4	1	22	26.98199				
L2511359-02	1	23	3.70563				
L2511359-03	1	24	26.53382				
L2511359-04	1	25	27.13575				
L2511359-05	1	26	30.85129				
L2511359-06	1	27	11.82641				
L2510737-01	1	28	269.20535	10.00			
CCV	1	S3	19.29978				
	Known Conc:		20.00000				
CCB	1	S9	0.56356				
	Known Conc:		0.00000				
L2510737-02	1	29	635.28351	10.00			
L2510737-03	1	30	130.04492	10.00			
L2510737-04	1	31	310.73184	10.00			

L2511246-01	1	32	26.34293			
WG2036501-3	1	33	26.76000			
WG2036501-4	1	34	44.47534			
L2511246-02	1	35	27.46411			
L2511246-03	1	36	38.65965			
L2510722-01	1	37	562.29291			
L2510776-01	1	38	68.66336	10.00		
CCV	1	S3	19.65302			
	Known Conc:		20.00000			
CCB	1	S9	0.92849			
	Known Conc:		0.00000			
WG2036502-3	1	39	9.45364			
WG2036502-4	1	40	27.71379			
L2510777-01	1	41	9.76613			
L2510984-01	1	42	468.43005			
L2510984-02	1	43	333.28723			
L2510984-03	1	44	362.42307			
L2510984-05	1	45	1.90180			
L2511262-02	1	46	180.84085			
L2511262-03	1	47	204.49704			
L2511262-04	1	48	118.17480	10.00		
CCV	1	S3	19.08496			
	Known Conc:		20.00000			
CCB	1	S9	0.51263			
	Known Conc:		0.00000			
L2511262-05	1	49	100.29022	10.00		
L2511262-06	1	50	86.60297	10.00		
L2511262-07	1	51	53.69707	10.00		
L2511262-08	1	52	31.36196	10.00		
L2511262-09	1	53	32.19460	10.00		
L2511529-01	1	54	15.54999	10.00		
WG2036498-1	1	55	7.45046			0.10073 g
WG2036498-2	1	56	383.37405			0.10105 g
L2510838-01	1	57	683.07562			0.10109 g
L2510838-02	1	58	455.63266	10.00		0.10193 g
CCV	1	S3	19.23342			
	Known Conc:		20.00000			
CCB	1	S9	0.52233			
	Known Conc:		0.00000			
L2510864-01	1	59	20.58384			0.10145 g
L2510864-02	1	60	20.16971			0.10123 g
L2510870-01	1	61	32.17325			0.10183 g
L2510870-02	1	62	30.37345			0.10148 g
L2510875-01	1	63	78.39219			0.10106 g
L2510875-02	1	64	137.29977			0.10187 g
WG2036498-3	1	65	174.68452			0.10096 g
WG2036498-4	1	66	512.36267			0.10036 g
L2510880-01	1	67	40.46471			0.10116 g
L2510880-02	1	68	75.62934	10.00		0.10046 g
CCV	1	S3	18.78667			
	Known Conc:		20.00000			
CCB	1	S9	0.36796			
	Known Conc:		0.00000			
L2510890-01	1	69	35.77431			0.10169 g
L2510890-02	1	70	37.95958			0.10168 g
L2510637-05	1	12	112.80399	10.00		
L2510637-10	1	14	311.05737	10.00		
L2510637-09	1	13	75.60949			
L2510637-12	1	15	143.62207	10.00		
L2510730-01	1	16	563.07684	100.00		
L2510730-02	1	17	519.16870	100.00		
L2510730-03	1	18	3378.38867	100.00		
L2511314-01	1	19	2931.74146	100.00		
CCV	1	S3	19.02294			
	Known Conc:		20.00000			
CCB	1	S9	0.54062			
	Known Conc:		0.00000			
L2511359-01	1	20	7.51200			

97%

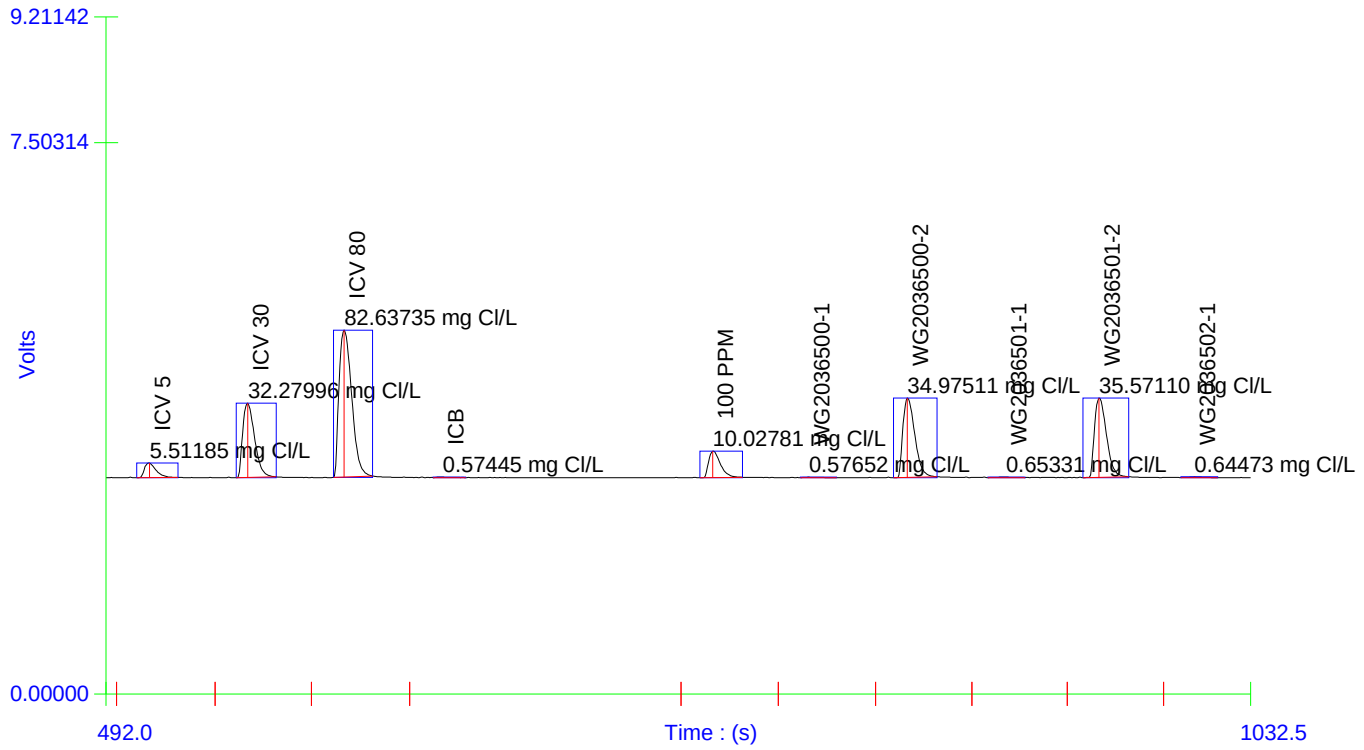
L2510722-01	1	37	14498.48926	1000.00		
L2510776-01	1	38	10.81623			
L2510984-01	1	42	1453.27100	10.00		
L2510984-02	1	43	749.73761	10.00		
L2510984-03	1	44	817.28503	10.00		
L2510984-05	1	45	0.63850			
L2511262-02	1	46	237.80765	10.00		
L2511262-03	1	47	285.18613	10.00		
L2511262-07	1	51	54.72330			
CCV	1	S3	19.15420			
	Known Conc:		20.00000			
CCB	1	S9	0.55373			
	Known Conc:		0.00000			
L2511262-08	1	52	30.11852			
L2511262-09	1	53	31.51231			
L2511529-01	1	54	13.48632			
L2510838-02	1	58	479.05881			0.10193 g
L2510880-02	1	68	24.32717			0.10046 g
L2510730-01	1	16	630.50305	10.00		
L2510730-02	1	17	577.31006	10.00		
L2510984-01	1	42	1553.76660	100.00		
CCV	1	S3	19.24331			
	Known Conc:		20.00000			
CCB	1	S9	0.57825			
	Known Conc:		0.00000			

Channel 1 (Chloride) - Set: 1 / 13

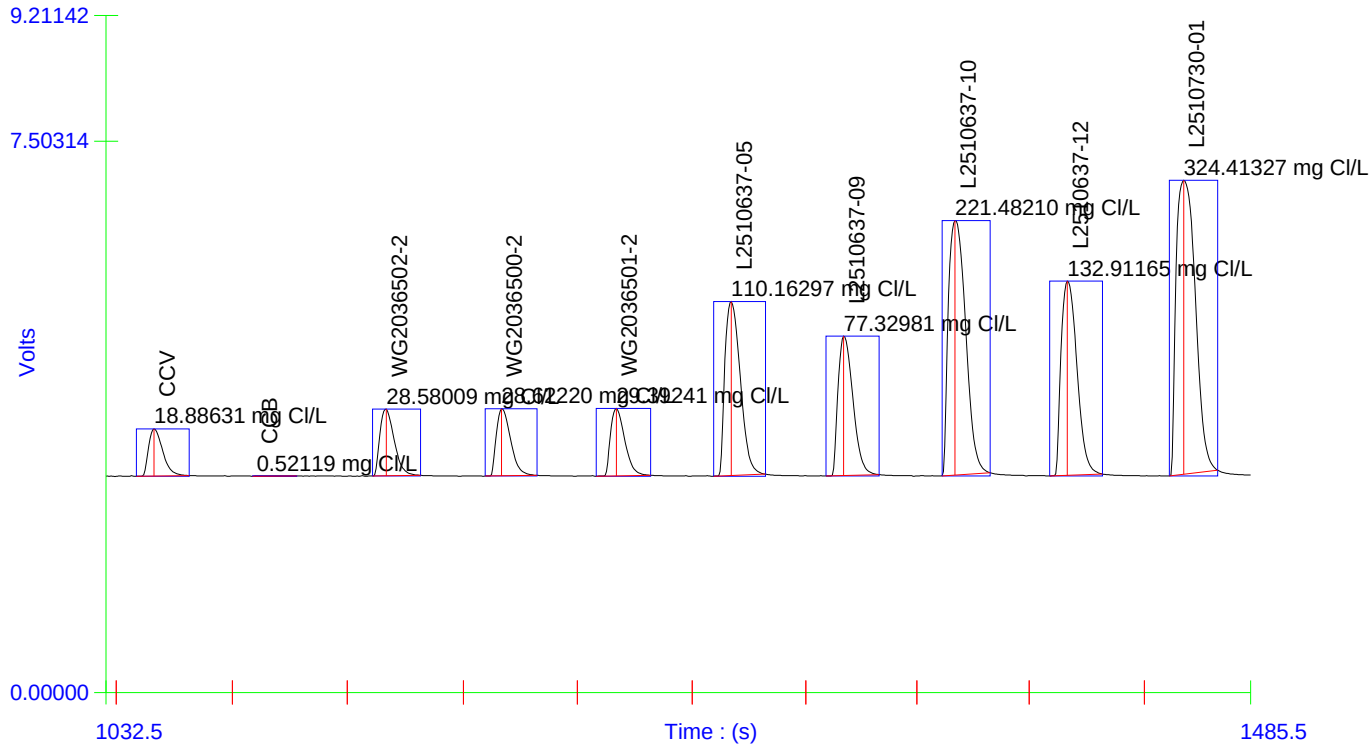


Author: Date : 3/4/2025

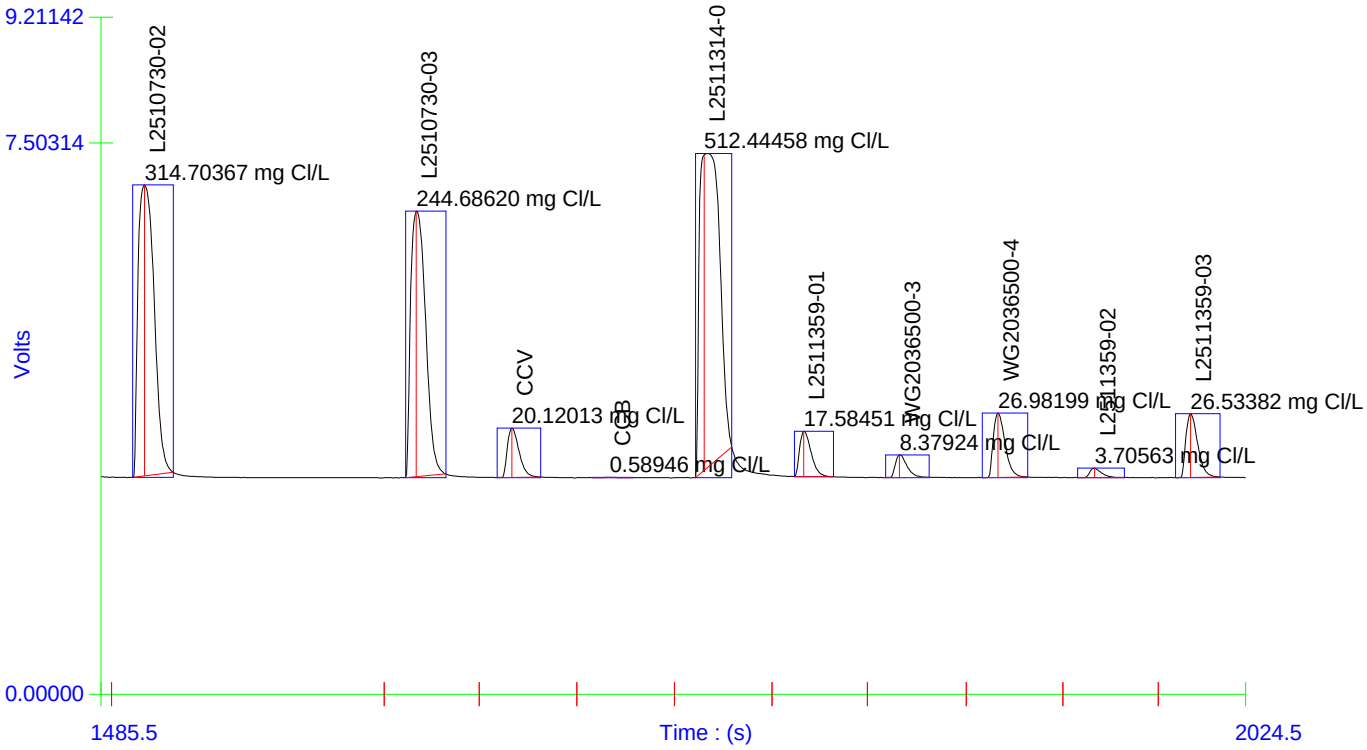
Channel 1 (Chloride) - Set: 2 / 13



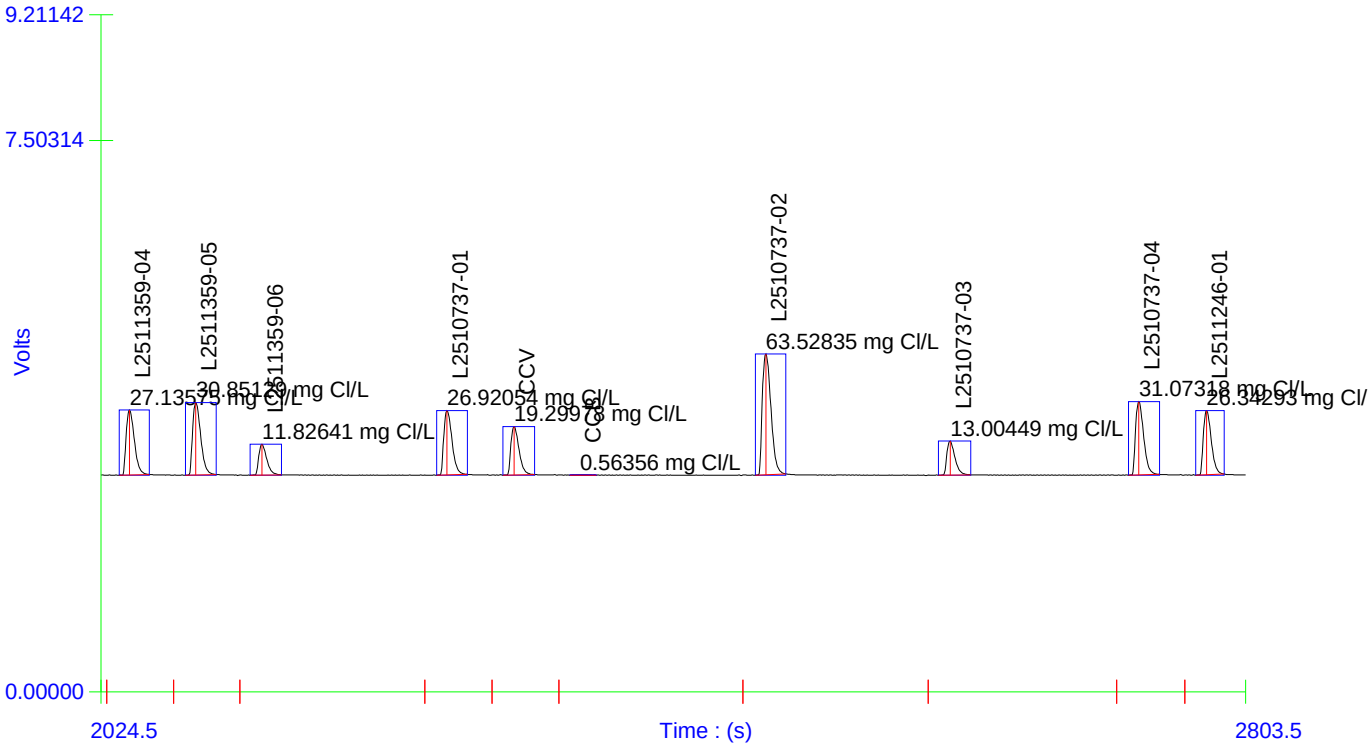
Channel 1 (Chloride) - Set: 3 / 13



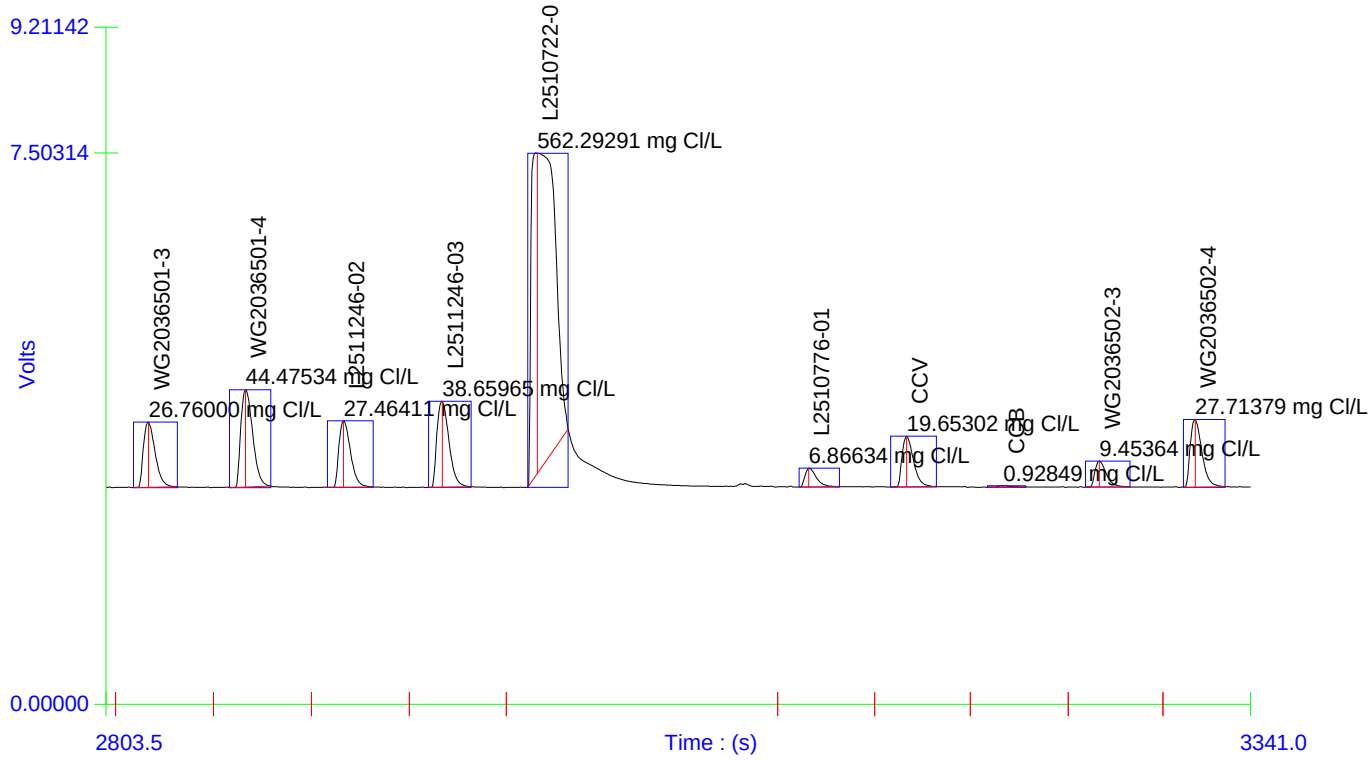
Channel 1 (Chloride) - Set: 4 / 13



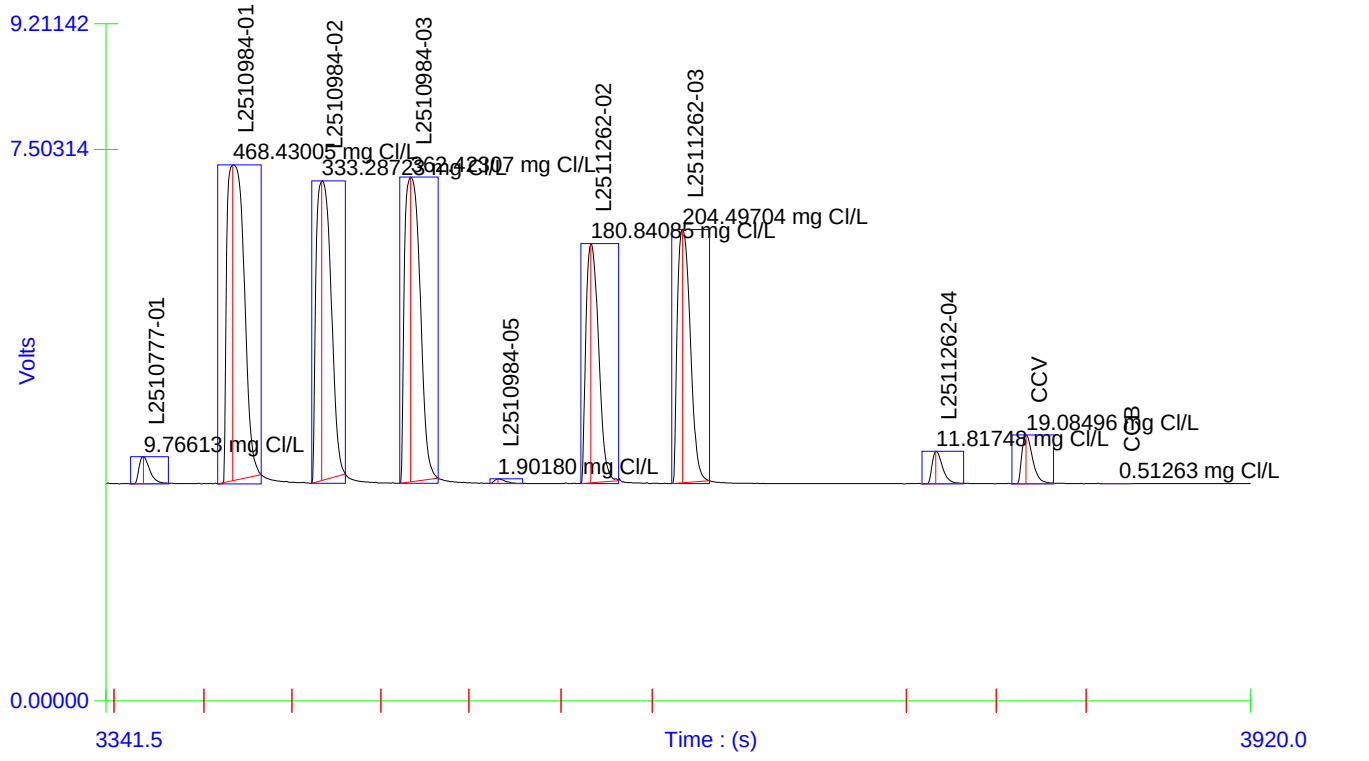
Channel 1 (Chloride) - Set: 5 / 13



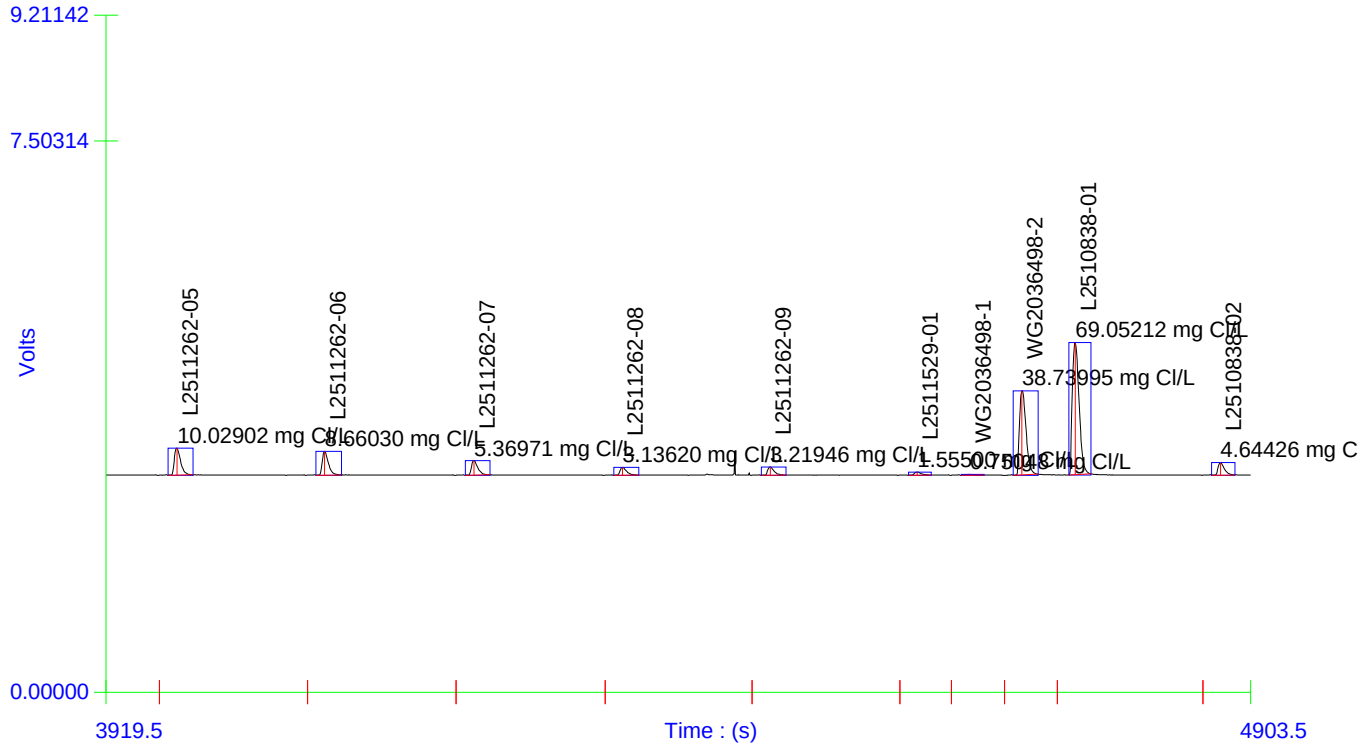
Channel 1 (Chloride) - Set: 6 / 13



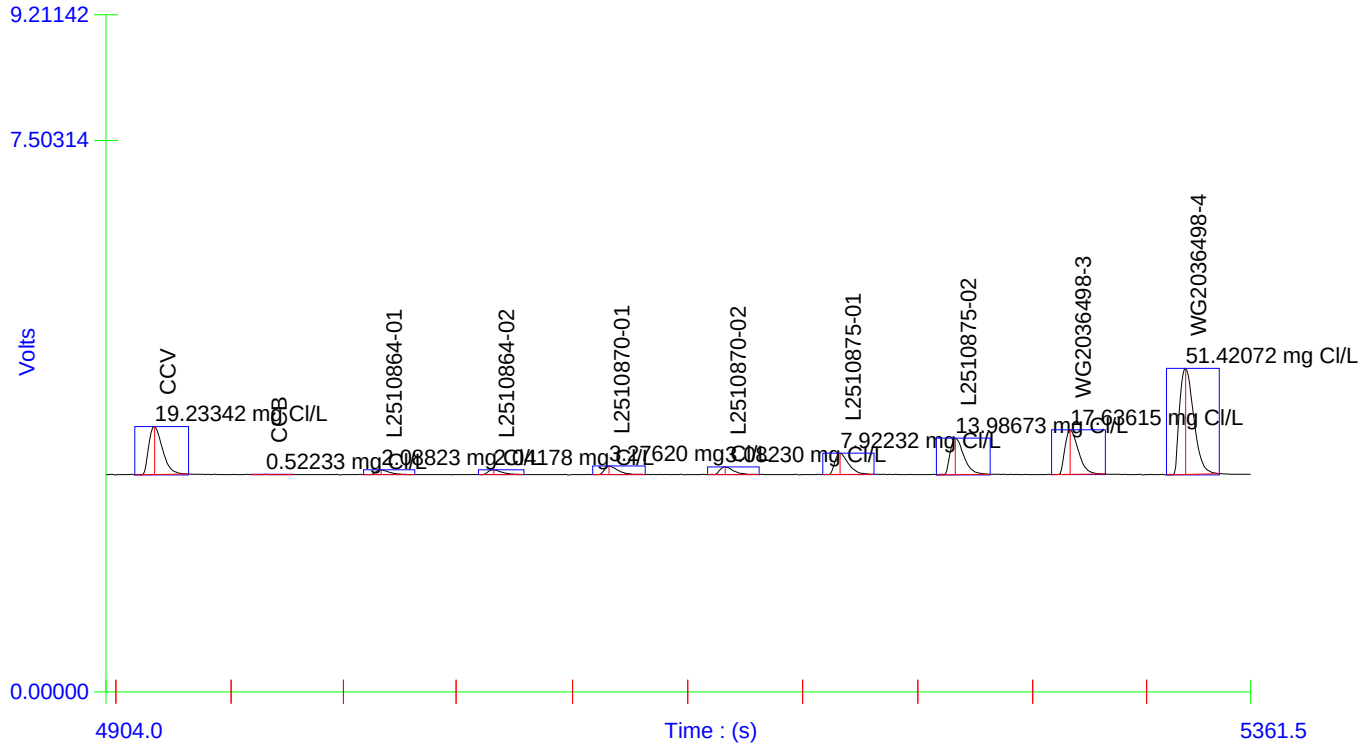
Channel 1 (Chloride) - Set: 7 / 13



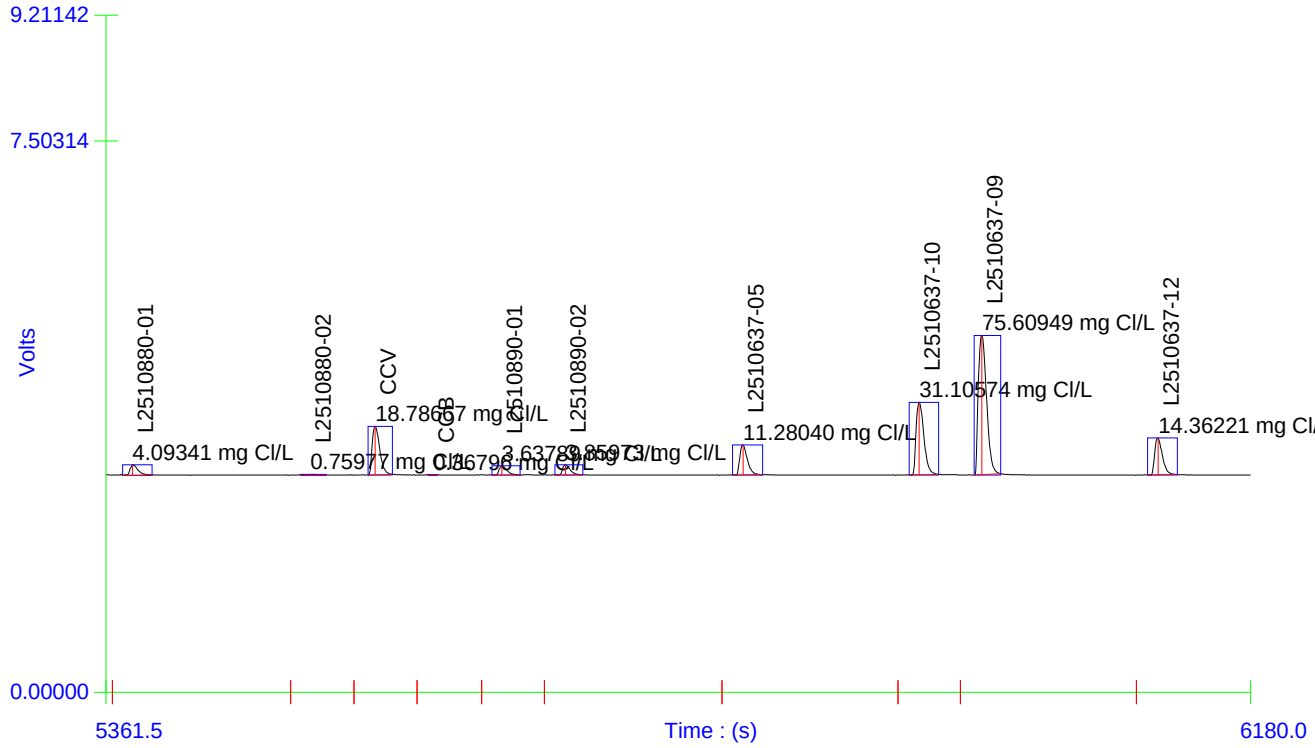
Channel 1 (Chloride) - Set: 8 / 13



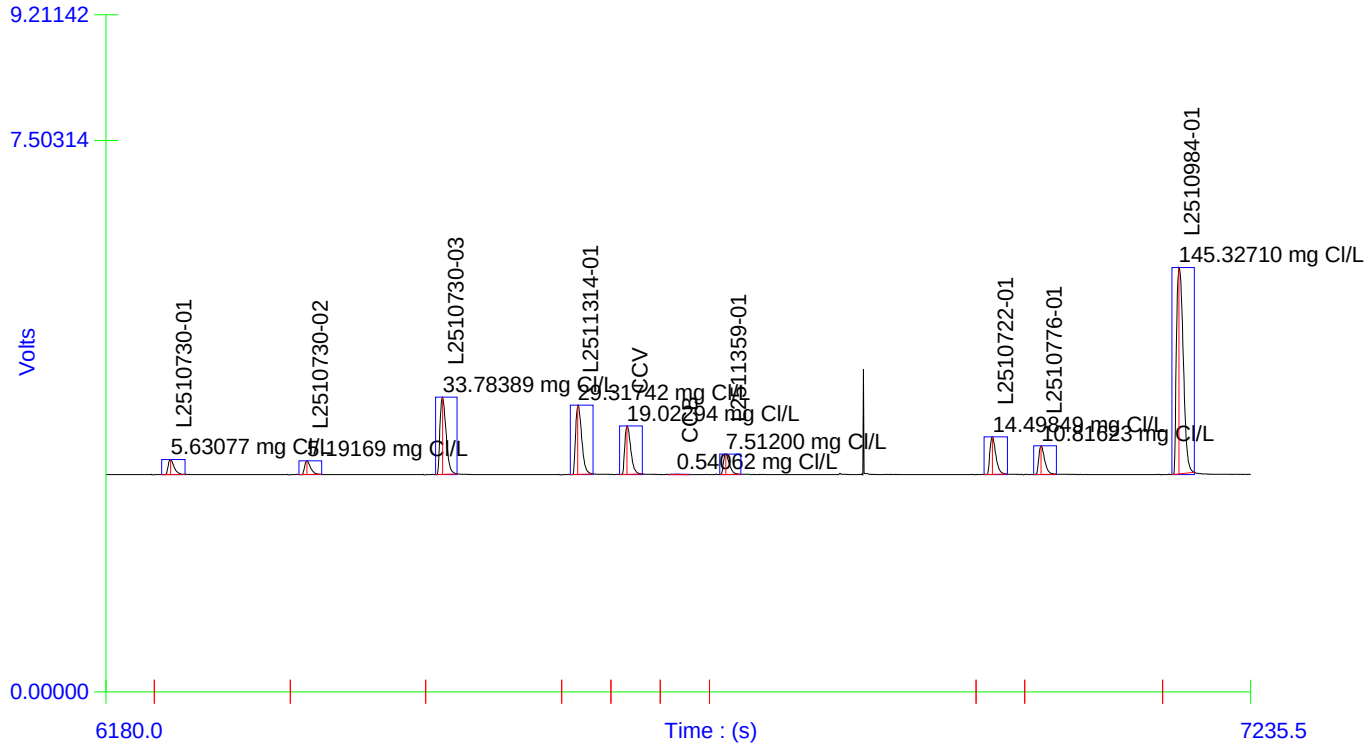
Channel 1 (Chloride) - Set: 9 / 13



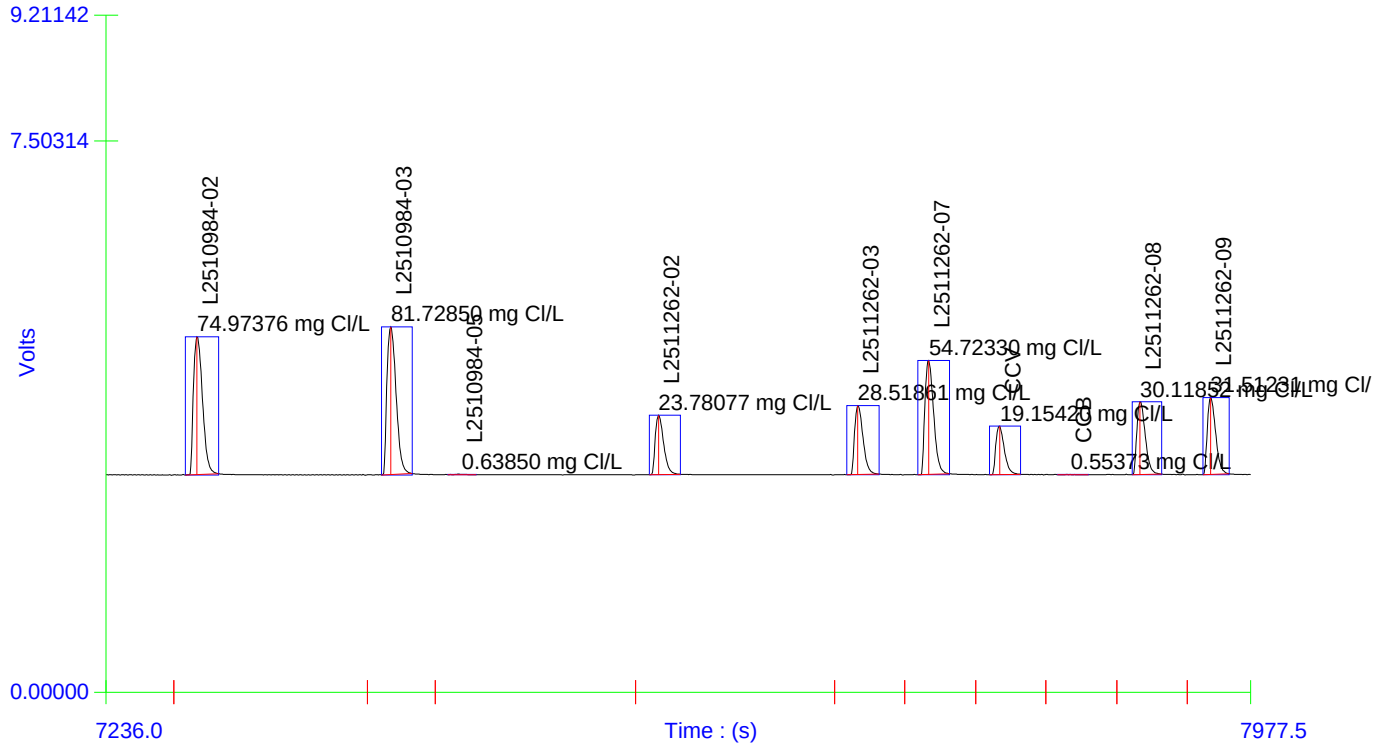
Channel 1 (Chloride) - Set: 10 / 13



Channel 1 (Chloride) - Set: 11 / 13



Channel 1 (Chloride) - Set: 12 / 13



Channel 1 (Chloride) - Set: 13 / 13

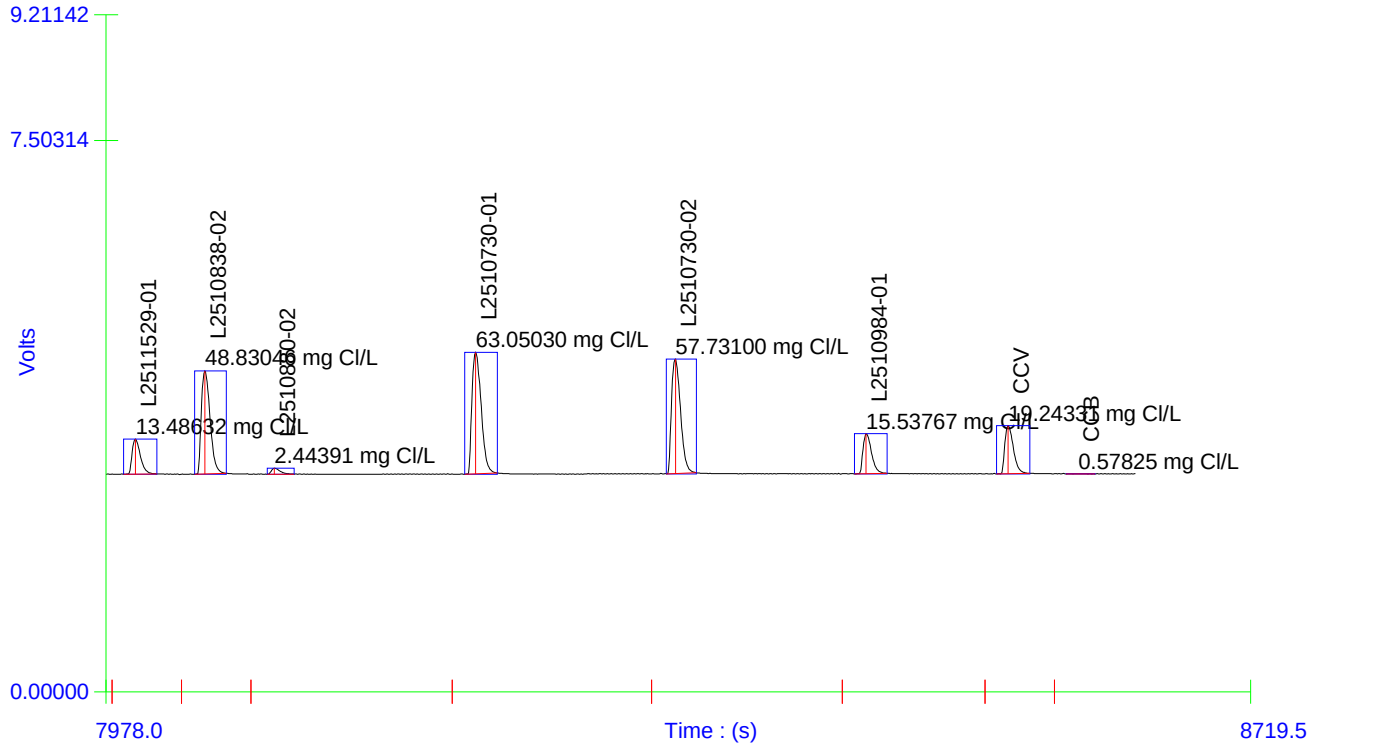
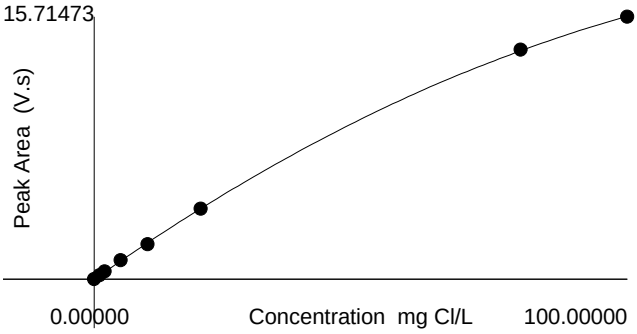


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.71473	2.24153	0.0	0.2	98.51384	3/4/2025	1:23:46 PM
2	80.00000	1	13.73690	1.99241	0.0	-0.4	82.02929	3/4/2025	1:24:30 PM
3	20.00000	1	4.20870	0.66015	0.0	0.5	19.31202	3/4/2025	1:25:17 PM
4	10.00000	1	2.09114	0.32945	0.0	4.1	9.12951	3/4/2025	1:26:03 PM
5	5.00000	1	1.14054	0.17759	0.0	-3.3	5.00264	3/4/2025	1:26:49 PM
6	2.00000	1	0.46420	0.06798	0.0	-4.8	2.23401	3/4/2025	1:27:36 PM
7	1.00000	1	0.23681	0.03359	0.0	-7.8	1.33451	3/4/2025	1:28:23 PM
8	0.00000	1	0.00772	0.00160			0.44417	3/4/2025	1:29:08 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00068 * Conc^2 + 0.22523 * Conc - 0.00488
Conc = 0.15230 * Area^2 + 3.84912 * Area + 0.41445
Correlation Coefficient (r) = 0.99997

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2510776-01		
Matrix Spike	: WG2036502-4	**MS Analysis Date**	: 03/04/25 14:18
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	11.	20	28.	85					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/04/25 15:20
Dup Sample ID	: WG2036502-3	**DUP Analysis Date**	: 03/04/25 14:17

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	11	9.4	16 Q	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036502-2	**LCS Analysis Date**	: 03/04/25 13:41
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	30.0	28.0	93.					90-110	7

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

TITLE CI 03 04 25 JER

Project No. _____

Book No. _____

Confidenti

From Page No. ____

1 ICUS
2 30
3 80
4 ICB
5 100 ppm Ox
6 WG 2036500 - 1 Blk
7 -2 LCS
8 WG 2036501 - 1 Blk
9 -2 LCS
10 WG 2036502 - 1 Blk
11 -2 LCS
12 10637 -05
13 -09
14 -10
15 -12
16 10730 -01
17 -02
18 -03
19 11314 -01
20 11359 -01
21 -01 Dup
22 -01 MS
23 -02
24 -03
25 -04
26 -05
27 -06
28 10737 -01
29 -02
30 -03
31 -04
32 11246 -01
33 ~~-01 MS~~ -01 Dup
34 -01 MS
35 -02
36 -03
37 10782 -01
38 10776 -01
39 -01 Dup
40 -01 MS
41 10777 -01
42 10984 -01
43 -02
44 -03
45 -05
46 11262 -02
47 -03
48 -04
49 -05
50 -06
51 -07
52 -08
53 -09
54 11529 -01
55 WG 2036498 - 1 Blk .10073
56 -2 LCS .10105
57 10838 -01 .10109
58 -02 .10193
59 10864 -01 .10145
60 -02 .10183
61 10870 -01 .10183
62 -02 .10148
63 10875 -01 .10106
64 -02 .10187
65 -02 Dup .10096
66 -02 MS .10036
67 10880 -01 .10116
68 -02 .10046
69 10890 -01 .10169
70 -02 .10168

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Fluoride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/06/25 05:13
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2037143.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/06/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.06	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037143-1	**Date Collected**	: NA
Client ID	: WG2037143-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/25 05:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2037143.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/06/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037143-3	**Date Collected**	: 03/04/25 10:57
Client ID	: WG2037143-3 DUP	**Date Received**	: 03/04/25
Sample Location	:	**Date Analyzed**	: 03/06/25 05:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2037143.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/06/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.08	0.20	0.02	J

Sample Raw Data

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Product: F-4500
Analysis Analyte: Fluoride,
Analysis: FLUORIDE
Analysis Date: 3/6/2025 5:13
Method: SM 4500F-BC
Technician: DTH
LCS Concentration (mg/l): 2
Work group: WG2037143
Spike Concentration (mg/l): 1
RL: 0.20 mg/L
Distillation Date: 3/6/2025 0:59

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	125	-0.708	0.1961	98	-59.394175	82.975
0.5	-0.301	100.4	-0.293	0.5089	102		
1.0	0.000	82.7	0.005	1.0107	101	Correlation	Coefficient
10	1.000	23.8	0.996	9.915	99	0.99994731	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	0.995	1.00	1.00	100%
	L2511529-01	50	50		YES	1.00	0.0559	1.00	0.06	
SAMP	L2511919-01	50	50		YES	1.00	0.165	1.00	0.17	
SAMP	L2511919-02	50	50		YES	1.00	0.126	1.00	0.13	
SAMP	L2511919-04	50	50		YES	1.00	0.123	1.00	0.12	
SAMP	L2511919-05	50	50		YES	1.00	0.125	1.00	0.13	
SAMP	L2511919-07	50	50		YES	1.00	0.109	1.00	0.11	
SAMP	L2511919-08	50	50		YES	1.00	0.0881	1.00	0.09	
	L2511944-01	50	50		YES	1.00	0.0302	1.00	0.03	
	L2511944-02	50	50		YES	1.00	0.0186	1.00	0.02	
	L2511944-03	50	50		YES	1.00	0.0736	1.00	0.07	
	L2511944-04	50	50		YES	1.00	0.0488	1.00	0.05	
	L2511944-05	50	50		YES	1.00	0.0287	1.00	0.03	
	L2511944-06	50	50		YES	1.00	0.0848	1.00	0.08	
	L2511944-07	50	50		YES	1.00	0.036	1.00	0.04	
	L2511944-08	50	50		YES	1.00	0.0792	1.00	0.08	
	L2511944-09	50	50		YES	1.00	0.00847	1.00	0.01	
	CCV	50	50		YES	1.00	0.991	1.00	0.99	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.976	1.00	0.98	
	CCB	50	50		YES	1.00	0	1.00	0.00	
BLANK	WG2037143-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG2037143-3	50	50		YES	1.00	0.0839	1.00	0.08	L2511944-06

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG2037143-4	50	50		YES	.08	0.941	1	0.94	86
LCS	WG2037143-2	50	50		YES		1.74	2	1.74	87

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511944-06		
Matrix Spike	: WG2037143-4	**MS Analysis Date**	: 03/06/25 05:13
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.08J	1	0.94	94					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/06/25 05:13
Dup Sample ID	: WG2037143-3	**DUP Analysis Date**	: 03/06/25 05:13

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.08J	0.08J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2037143-2	**LCS Analysis Date**	: 03/06/25 05:13
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Fluoride	2.00	1.70	87.					78-120	13

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

Project No.

Book No.

TITLE

Confide

From Page No.

WG2037143

Analyst: DTH 5.15

Date & Time: 3/6/25

ICV:F 120024-100ppm

LCS:F 120024-100ppm

Spike:F 120024-100ppm

Curve:WC- 3567

TISAB III: R- 4322

STD	MV
0.2	125.0
0.5	100.4
1.0	82.7
10.0	23.8

Sample	Volume 50mL	Final Volume 50mL	Meter
ICV			0.995
ICB			0.0
Blank			0.0
LCS			1.74
11529-01			0.0559
11919-01			0.165
-02			0.176
-04			0.123
-05			0.125
-07			0.109
-08			0.0881
11944-01			0.0302
CCV			0.991
CCB			0.0
-02			0.0186
-03			0.0736
-04			0.0488
-05			0.0567
-06			0.0848
-07			0.0360
-08			0.0792
-09			0.00847
DTH 3/6/25 ~~CCV~~ -06DUP			0.0839
~~CCB~~ -06MS			0.941
CCV			0.976
CCB			0.0

To Page No

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Tube	Sample	Volume	Final Volume	Block	Comments 00:59
1	Blank	50 mL	50 mL	Phenol #2	DTH 03/06/25 a
2	LCS				1.0 mL ~~F012~~ F122024 DTH 3/6/25
3	11529-01				
4	11919-01				
5	02				
6	04				
7	05				
8	07				
9	08				
10	11944-01			Phenol #3	
11	-03				
12	-03				
13	-04				
14	-05				
15	-06				
16	Dup06				
17	MS06				0.5mL F122024-100ppm
18	07				
19	08				
20	09				

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Phosphates Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2511529
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2511529-01	Date Collected	:	03/03/25 14:20
Client ID	:	MW-11D	Date Received	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/10/25 13:09
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500P-E(M)	Analyst	:	EYA
Lab File ID	:	PHOS031025-WG2037673,78.c	Instrument ID	:	SEAL2
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	03/10/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7723-14-0	Phosphate, Total	0.408	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037673-1	**Date Collected**	: NA
Client ID	: WG2037673-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/10/25 13:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS031025-WG2037673,78.c	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/10/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037673-3	**Date Collected**	: 03/04/25 15:20
Client ID	: WG2037673-3 DUP	**Date Received**	: 03/04/25
Sample Location	:	**Date Analyzed**	: 03/10/25 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS031025-WG2037673,78.c	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/10/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.135	0.031	0.012	

Sample Raw Data

AQ2 Tray Report

Software version :	2.4.5
Report requested by :	EAsamoah
Date \ Time :	10-Mar-2025 14:04:17
Tray number :	2
Tray name :	WG2037673,78

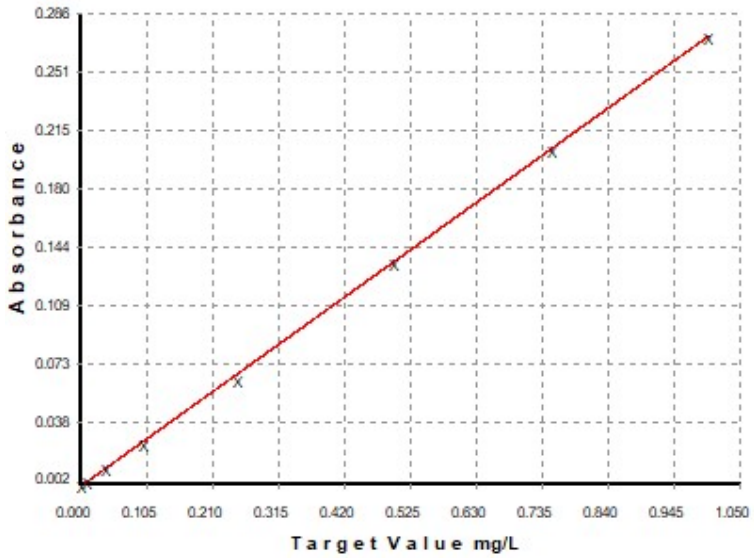
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0022	0.006	0.000	
S90	0.0040	0.013	0.010	30.61
S91	0.0114	0.041	0.040	1.26
S92	0.0270	0.098	0.100	-2.22
S93	0.0655	0.240	0.250	-4.15
S94	0.1359	0.499	0.500	-0.14
S95	0.2041	0.751	0.750	0.07
S96	0.2725	1.003	1.000	0.27
S0	0.0020	0.006	0.000	

Polynomial Order :	1
Correlation Coefficient :	0.9999
Carryover(%) :	-0.1
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-1.659057E-03
b =:	3.685201E+00
Date & Time :	10-Mar-2025 13:04:49

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-03052025	EYA	26-Mar-2025 00:00:00
TP Ascorbic	TP Ascorbic-03102025	MEF	17-Mar-2025 00:00:00

Test Results

Cup	Type	ID	Sample Details	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time & Date
	S1	Standard 1		0.002			0.002209			EYA	10-Mar-2025 12:57:03
	S90	Standard 90		0.004			0.003994			EYA	10-Mar-2025 12:58:01
	S91	Standard 91		0.011			0.011441			EYA	10-Mar-2025 12:58:59
	S92	Standard 92		0.027			0.026984			EYA	10-Mar-2025 12:59:57
	S93	Standard 93		0.065			0.065475			EYA	10-Mar-2025 13:00:55
	S94	Standard 94		0.136			0.135934			EYA	10-Mar-2025 13:01:54
	S95	Standard 95		0.204			0.204113			EYA	10-Mar-2025 13:02:52
	S96	Standard 96		0.273			0.272543			EYA	10-Mar-2025 13:03:51
	S0	Standard 0		0.002			0.002006			EYA	10-Mar-2025 13:04:49
2	ICV	ICV	10-MAR-2025 06-18	0.531	mg/L		0.144580			EYA	10-Mar-2025 13:05:48
3	ICB	ICB	10-MAR-2025 06-18	0.005	mg/L		0.001884			EYA	10-Mar-2025 13:06:49
4	U1	WG2037673-1O	10-MAR-2025 06-18	0.005ELL	mg/L		0.001859			EYA	10-Mar-2025 13:07:49
5	U2	WG2037673-2O	10-MAR-2025 06-18	0.537	mg/L		0.146070			EYA	10-Mar-2025 13:08:48
6	U3	L2511529-01O	10-MAR-2025 06-18	0.133	mg/L		0.036596			EYA	10-Mar-2025 13:09:47
7	U4	L2511919-01O	10-MAR-2025 06-18	0.035	mg/L		0.010075			EYA	10-Mar-2025 13:10:46
8	U5	L2511919-02O	10-MAR-2025 06-18	0.016	mg/L		0.004917			EYA	10-Mar-2025 13:11:45
9	U6	L2511919-04O	10-MAR-2025 06-18	0.035	mg/L		0.009959			EYA	10-Mar-2025 13:12:44
10	U7	L2511919-05O	10-MAR-2025 06-18	0.017	mg/L		0.004964			EYA	10-Mar-2025 13:13:43
11	U8	L2511919-07O	10-MAR-2025 06-18	0.031	mg/L		0.008927			EYA	10-Mar-2025 13:14:42

12	U9	L2511919-08O	10-MAR-2025 06-18	0.026	mg/L	0.007603	EYA	10-Mar-2025 13:15:41
13	U10	L2511944-02O	10-MAR-2025 06-18	0.207	mg/L	0.056702	EYA	10-Mar-2025 13:16:39
	CCV	CCV		0.523	mg/L	0.142389	EYA	10-Mar-2025 13:17:38
	CCB	CCB		0.005	mg/L	0.001895	EYA	10-Mar-2025 13:18:39
14	U11	L2511944-03O	10-MAR-2025 06-18	0.046	mg/L	0.012901	EYA	10-Mar-2025 13:19:40
15	U12	WG2037673-3O	10-MAR-2025 06-18	0.044	mg/L	0.012436	EYA	10-Mar-2025 13:20:38
16	U13	WG2037673-4O	10-MAR-2025 06-18	0.589	mg/L	0.160166	EYA	10-Mar-2025 13:21:39
17	U14	L2511944-04O	10-MAR-2025 06-18	0.057	mg/L	0.015867	EYA	10-Mar-2025 13:22:40
18	U15	L2511871-01O	10-MAR-2025 06-18	0.217	mg/L	0.059254	EYA	10-Mar-2025 13:23:13
19	U16	L2511893-01O	10-MAR-2025 06-18	0.014	mg/L	0.004161	EYA	10-Mar-2025 13:24:10
20	U17	WG2037678-3O	10-MAR-2025 06-18	0.015	mg/L	0.004390	EYA	10-Mar-2025 13:25:01
21	U18	WG2037678-4O	10-MAR-2025 06-18	0.531	mg/L	0.144564	EYA	10-Mar-2025 13:25:53
22	U19	L2511893-02O	10-MAR-2025 06-18	0.014	mg/L	0.004305	EYA	10-Mar-2025 13:26:44
23	U20	L2511893-03O	10-MAR-2025 06-18	0.258	mg/L	0.070367	EYA	10-Mar-2025 13:27:35
	CCV	CCV		0.532	mg/L	0.144897	EYA	10-Mar-2025 13:28:26
	CCB	CCB		0.005	mg/L	0.001821	EYA	10-Mar-2025 13:29:18
24	U21	L2511893-04O	10-MAR-2025 06-18	0.007	mg/L	0.002461	EYA	10-Mar-2025 13:30:09
	CCV	CCV		0.528	mg/L	0.143700	EYA	10-Mar-2025 13:31:00
	CCB	CCB		0.005	mg/L	0.001942	EYA	10-Mar-2025 13:31:52

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511944-03		
Matrix Spike	: WG2037673-4	**MS Analysis Date**	: 03/10/25 13:21
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	0.141	1.53	1.81	109					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/10/25 13:19
Dup Sample ID	: WG2037673-3	**DUP Analysis Date**	: 03/10/25 13:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.141	0.135	4	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2037673-2	**LCS Analysis Date**	: 03/10/25 13:08
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Phosphate, Total	1.53	1.65	108.					84-118	15

Date Created: 11/11/21
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Total Suspended Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2511529
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2511529-01	Date Collected	:	03/03/25 14:20
Client ID	:	MW-11D	Date Received	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/04/25 09:18
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2036399.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Suspended	53.	5.0	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036399-1	**Date Collected**	: NA
Client ID	: WG2036399-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/04/25 09:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2036399.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036399-3	**Date Collected**	: 02/28/25 07:00
Client ID	: WG2036399-3 DUP	**Date Received**	: 03/03/25
Sample Location	:	**Date Analyzed**	: 03/04/25 09:18
Sample Matrix	: WATER	**Dilution Factor**	: 20
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2036399.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	350	100	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036399-4	**Date Collected**	: 03/01/25 07:00
Client ID	: WG2036399-4 DUP	**Date Received**	: 03/03/25
Sample Location	:	**Date Analyzed**	: 03/04/25 09:18
Sample Matrix	: WATER	**Dilution Factor**	: 20
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2036399.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	490	100	NA	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: MAR-05-25 07:58:06

WorkGroup	WG2036399	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**					
Method	SM2540D	**Time In**	04-MAR-25 10:52	**Time In**	04-MAR-25 16:13	**Time In**	04-MAR-25 21:21	**Time In**	04-MAR-25 23:51	**Time In**					
Instrument	BALANCE#22	**Time Out**	04-MAR-25 15:51	**Time Out**	04-MAR-25 20:42	**Time Out**	04-MAR-25 23:10	**Time Out**	05-MAR-25 07:41	**Time Out**					
		Evaporation	**Temp In (C)**	**Time In**							**LCS Lot #**	**TrueValue**	**Units**		
											83350	247.9	mg/l		

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2510843-01	04-MAR-25 09:18	BRYHANNAH YOUNG	4	60010414	.4367	1000	.4372	.4369				0.20	1	
L2511425-01	04-MAR-25 09:18	BRYHANNAH YOUNG	5	60010414	.4412	1000	.4606	.4609				19.40	1	
L2511425-02	04-MAR-25 09:18	BRYHANNAH YOUNG	6	60010414	.4439	1000	.4648	.4646				20.70	1	
L2511425-03	04-MAR-25 09:18	BRYHANNAH YOUNG	7	60010414	.4413	1000	.4518	.4518				10.50	1	
L2511425-04	04-MAR-25 09:18	BRYHANNAH YOUNG	8	60010414	.435	950	.4598	.4596				25.89	1.1	LIMITED VOLUME
L2511434-01	04-MAR-25 09:18	BRYHANNAH YOUNG	9	60010414	.4399	500	.4671	.4672				54.40	2	
L2511452-01	04-MAR-25 09:18	BRYHANNAH YOUNG	10	60010414	.4393	1000	.4397	.4397				0.40	1	
L2511456-01	04-MAR-25 09:18	BRYHANNAH YOUNG	11	60010414	.435	400	.4758	.4755				101.25	2.5	
L2511456-02	04-MAR-25 09:18	BRYHANNAH YOUNG	12	60010414	.4415	50	.4621	.4623				412.00	20	matrix
L2511456-03	04-MAR-25 09:18	BRYHANNAH YOUNG	13	60010414	.432	50	.4535	.4537				430.00	20	
L2511456-04	04-MAR-25 09:18	BRYHANNAH YOUNG	14	60010414	.4362	30	.4482	.4486				400.00	33.3	
L2511456-05	04-MAR-25 09:18	BRYHANNAH YOUNG	15	60010414	.4375	45	.4528	.4526				335.56	22.2	
L2511471-01	04-MAR-25 09:18	BRYHANNAH YOUNG	16	60010414	.4389	1000	.4398	.4397				0.80	1	
L2511503-01	04-MAR-25 09:18	BRYHANNAH YOUNG	17	60010414	.4349	1000	.4366	.4366				1.70	1	
L2511503-04	04-MAR-25 09:18	BRYHANNAH YOUNG	18	60010414	.4335	1000	.4363	.4359				2.40	1	
L2511503-05	04-MAR-25 09:18	BRYHANNAH YOUNG	19	60010414	.4349	1000	.4365	.4367				1.60	1	
L2511503-08	04-MAR-25 09:18	BRYHANNAH YOUNG	20	60010414	.4376	1000	.4395	.4397				1.90	1	
L2511523-01	04-MAR-25 09:18	BRYHANNAH YOUNG	21	60010414	.445	1000	.4513	.4512				6.20	1	

Wet Chemistry Gravimetric ELN

Printed: MAR-05-25 07:58:06

WorkGroup	WG2036399	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**					
Method	SM2540D	**Time In**	04-MAR-25 10:52	**Time In**	04-MAR-25 16:13	**Time In**	04-MAR-25 21:21	**Time In**	04-MAR-25 23:51	**Time In**					
Instrument	BALANCE#22	**Time Out**	04-MAR-25 15:51	**Time Out**	04-MAR-25 20:42	**Time Out**	04-MAR-25 23:10	**Time Out**	05-MAR-25 07:41	**Time Out**					
		Temp In (C)		**Time In**							**LCS Lot #**	**TrueValue**	**Units**		
											83350	247.9	mg/l		

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)					Result mg/L	Dil	Comment
L2511529-01	04-MAR-25 09:18	BRYHANNAH YOUNG	22	60010414	.4435	1000	.5057	.4974	.4963	.4965	52.80	1	
WG2036399-1	04-MAR-25 09:18	BRYHANNAH YOUNG	1	60010414	.4343	1000	.4343	.4341			-0.20	1	filter lot: 6000414235AP
WG2036399-2	04-MAR-25 09:18	BRYHANNAH YOUNG	24	60010414	.4331	250	.4932	.4929			239.20	4	
WG2036399-3	04-MAR-25 09:18	BRYHANNAH YOUNG	2	60010414	.4317	50	.4492	.4495			350.00	20	
WG2036399-4	04-MAR-25 09:18	BRYHANNAH YOUNG	3	60010414	.4381	50	.4628	.4631			494.00	20	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/04/25 09:18
Dup Sample ID	: WG2036399-3	**DUP Analysis Date**	: 03/04/25 09:18

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	410	350	16	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/04/25 09:18
Dup Sample ID	: WG2036399-4	**DUP Analysis Date**	: 03/04/25 09:18

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	430	490	13	32

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036399-2	**LCS Analysis Date**	: 03/04/25 09:18
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Solids, Total Suspended	248.	240.	96.					80-120	32

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Suspended	NONE	5		mg/l	80-120			29	29	2540D	7 days	1 - Plastic 950ml unpreserved

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

Calculations of TSS

$$\text{mgTSS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of filter + dried residue, g)
B = Initial weight (weight of clean filter, g)

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2511529
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2511529-01	**Date Collected**	:	03/03/25 14:20
Client ID	:	MW-11D	**Date Received**	:	03/03/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/05/25 20:43
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG2036943-50-54	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.043	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036954-1	**Date Collected**	: NA
Client ID	: WG2036954-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/25 12:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG2036954	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2036954-4	**Date Collected**	: 03/05/25 09:38
Client ID	: WG2036954-4 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/05/25 18:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG2036943-50-54	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

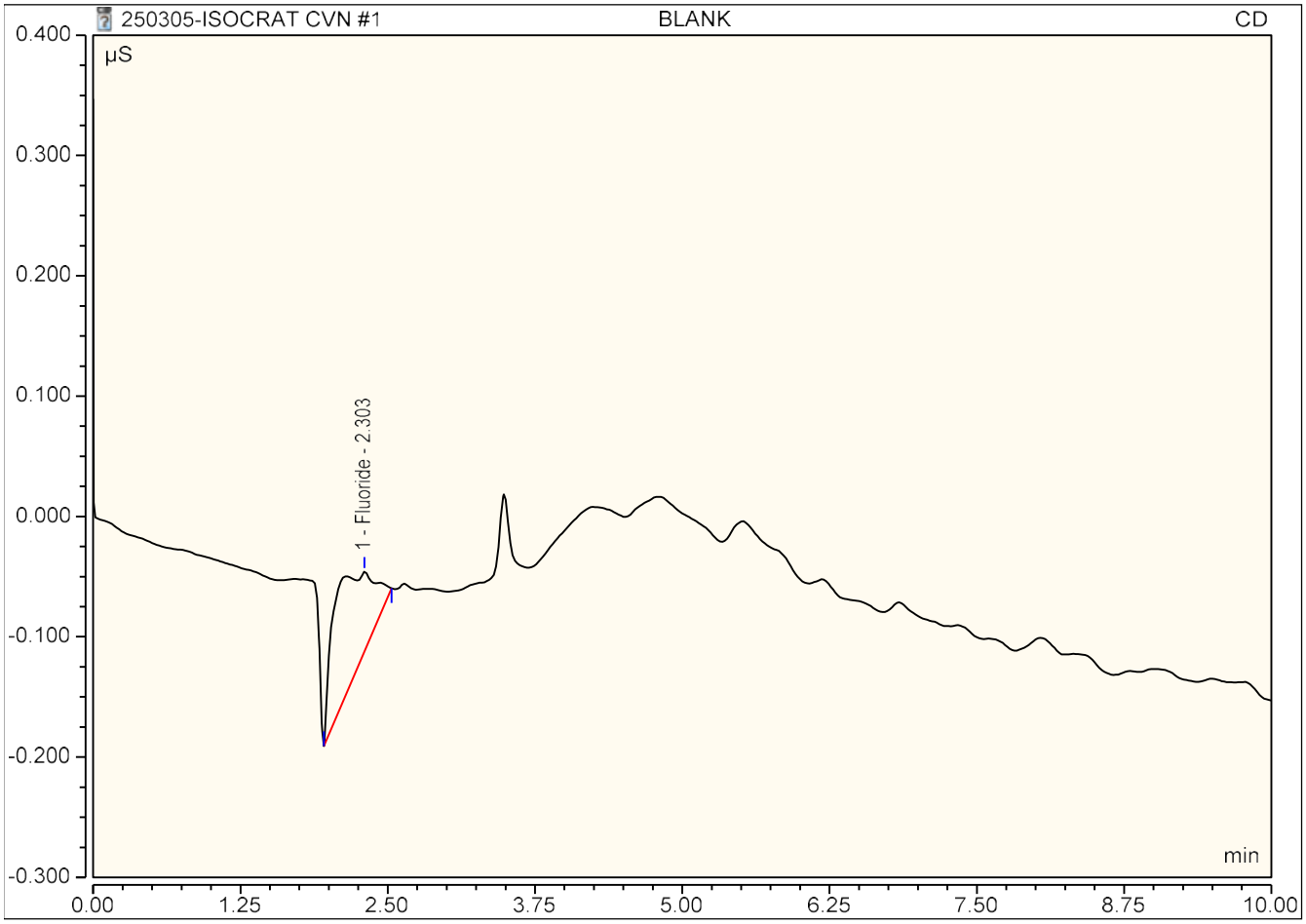
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 15:16**	*Run Time:*	**10.00**

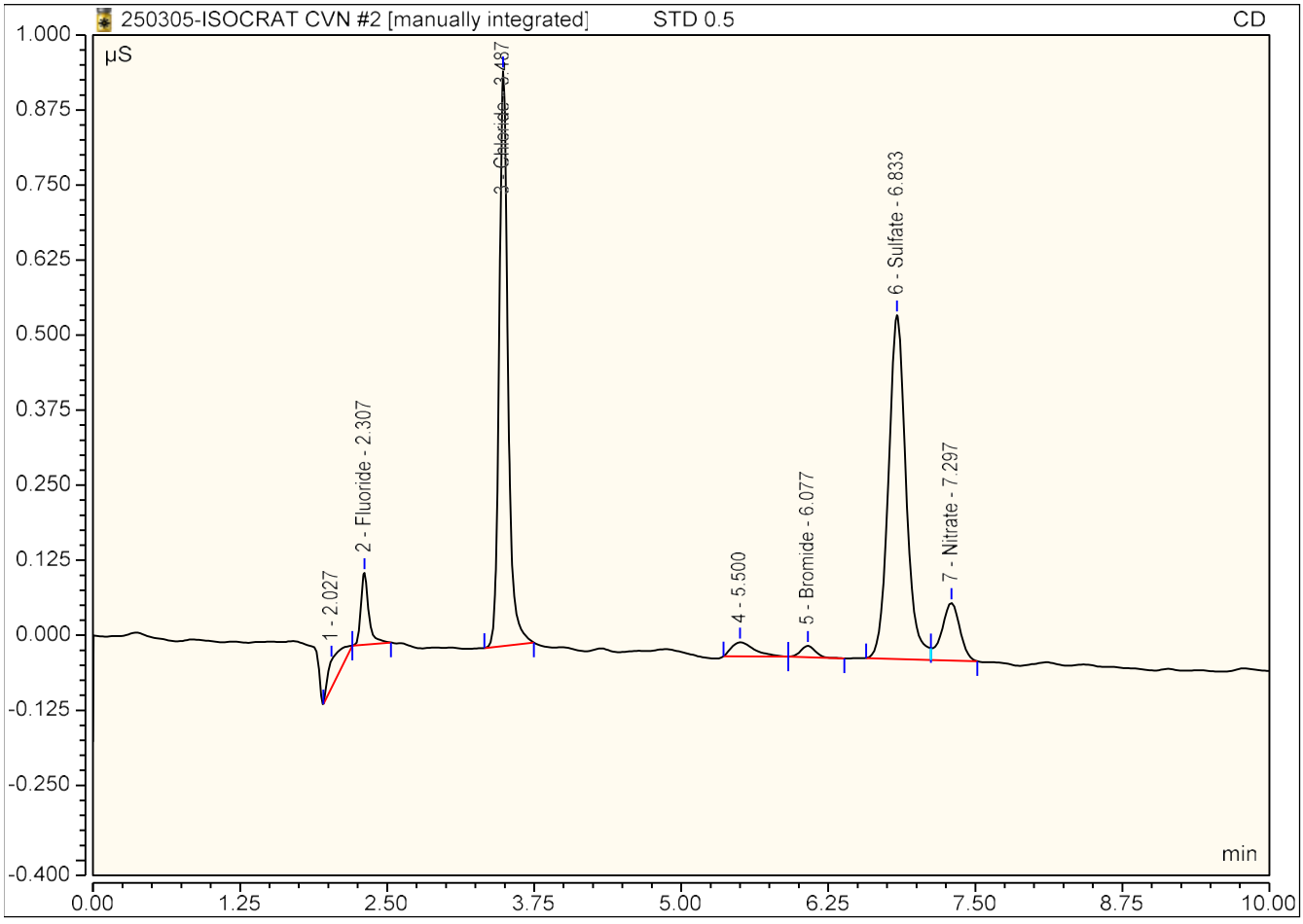
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.035	0.066	0.0938
		TOTAL:		0.03	0.07	0.09



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 15:28**	*Run Time:*	**10.00**

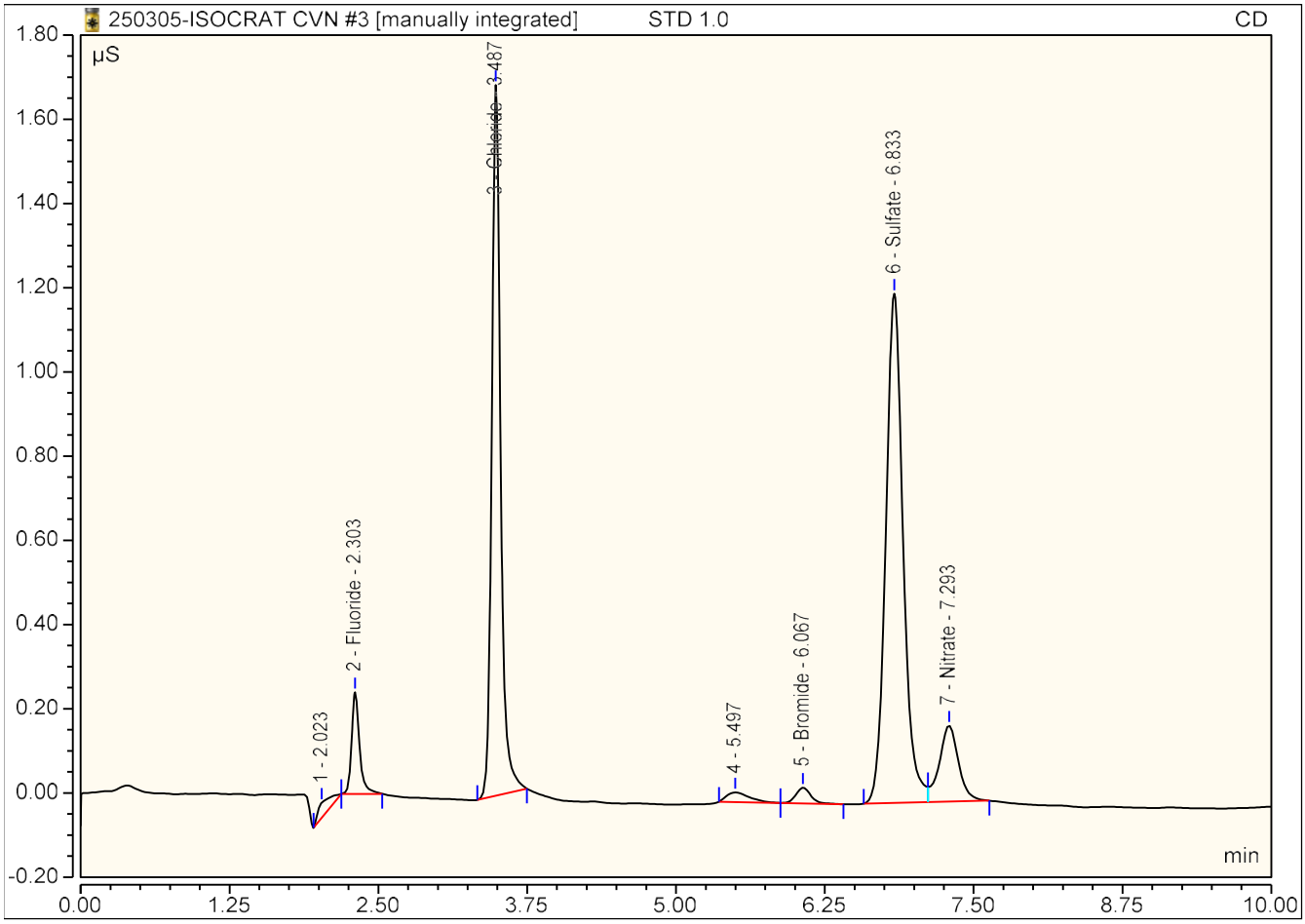
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.120	0.0476
3	3.49	**Chloride**	BMB	0.084	0.957	0.3758
5	6.08	**Bromide**	BMB	0.003	0.019	0.0457
6	6.83	**Sulfate**	BM *	0.099	0.573	0.6674
7	7.30	**Nitrate**	MB*	0.017	0.096	0.0446
TOTAL:				0.21	1.76	1.18



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 15:40**	*Run Time:*	**10.00**

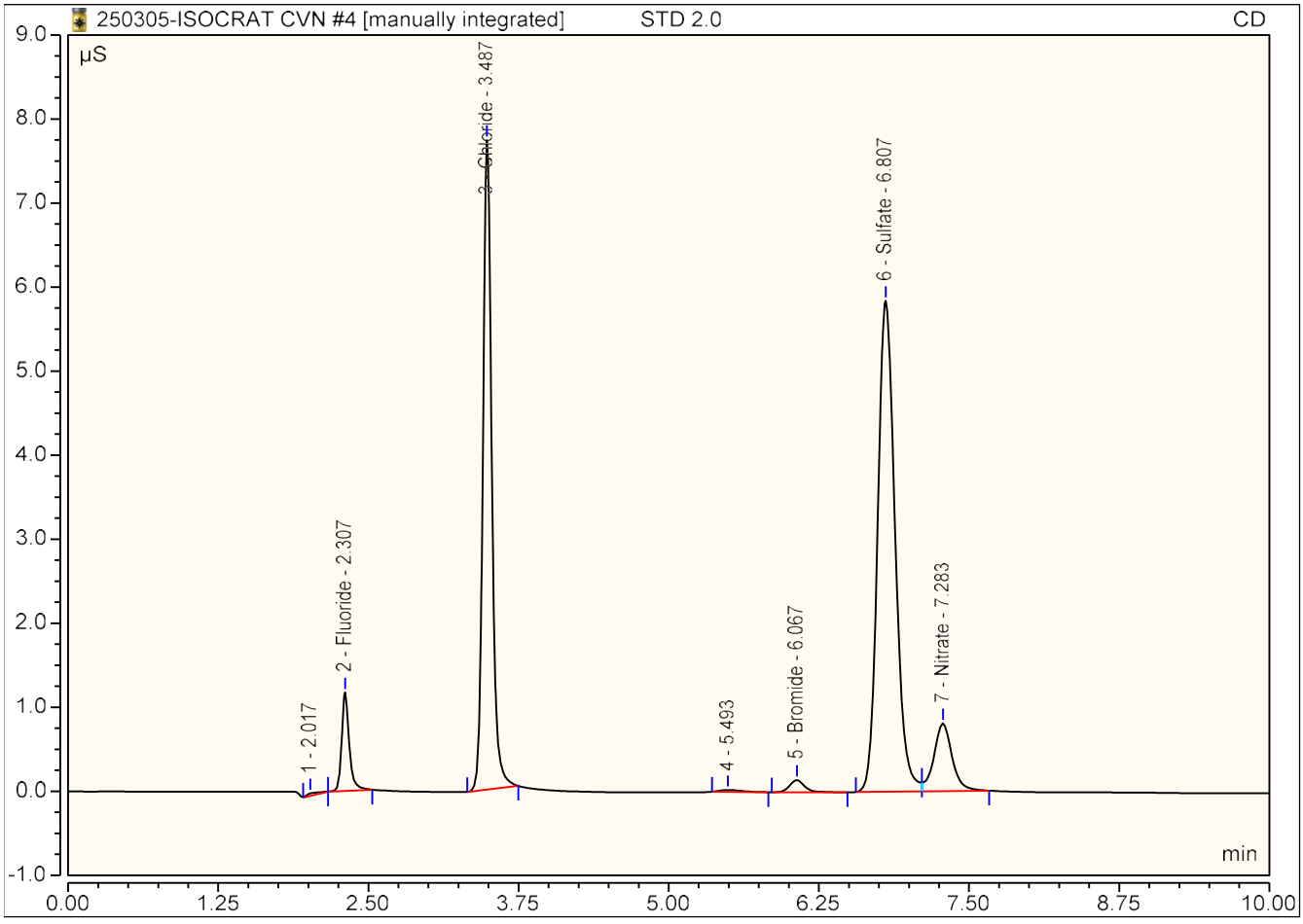
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.018	0.241	0.0642
3	3.49	**Chloride**	BMB	0.145	1.688	0.5449
5	6.07	**Bromide**	BMB	0.005	0.037	0.0673
6	6.83	**Sulfate**	BM *	0.204	1.209	1.0531
7	7.29	**Nitrate**	MB*	0.034	0.181	0.0635
TOTAL:				0.41	3.36	1.79



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 15:52**	*Run Time:*	**10.00**

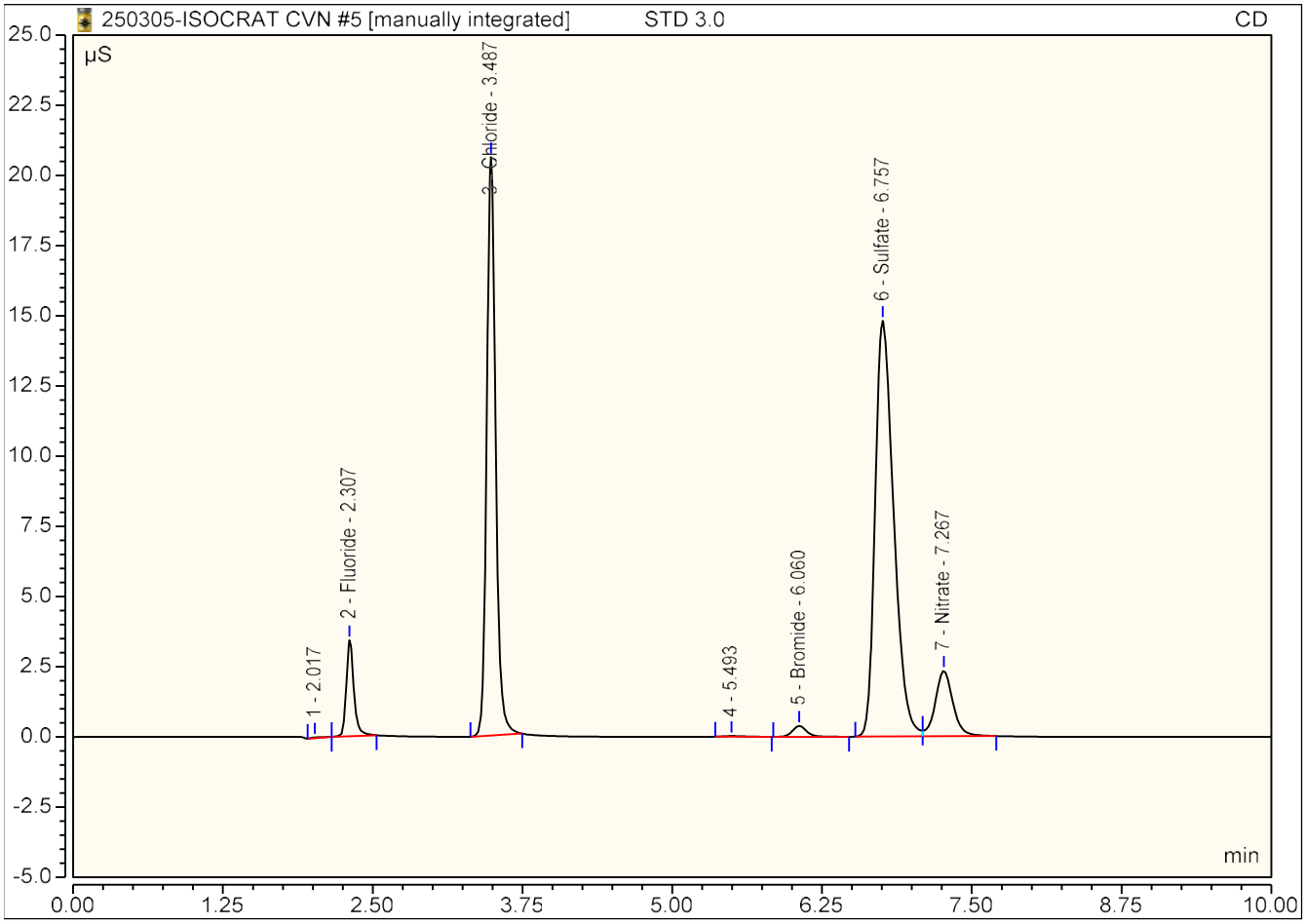
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.085	1.170	0.1838
3	3.49	**Chloride**	BMB	0.658	7.728	1.9560
5	6.07	**Bromide**	BMB	0.021	0.145	0.1909
6	6.81	**Sulfate**	BM *	0.980	5.839	3.9147
7	7.28	**Nitrate**	MB*	0.142	0.807	0.1847
TOTAL:				1.89	15.69	6.43



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 16:04**	*Run Time:*	**10.00**

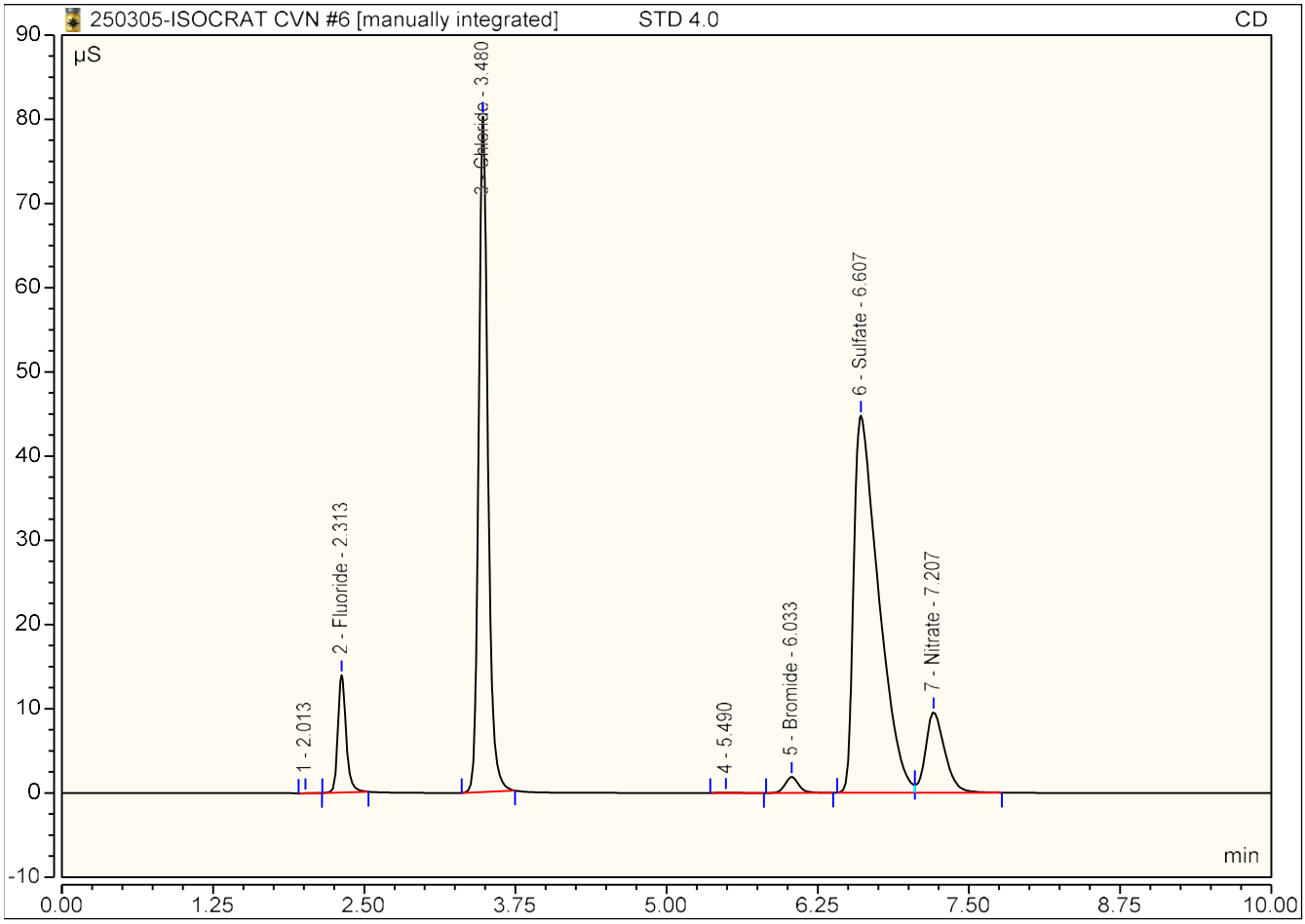
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.247	3.424	0.4769
3	3.49	**Chloride**	BMB	1.774	20.601	5.0224
5	6.06	**Bromide**	BMB	0.055	0.392	0.4612
6	6.76	**Sulfate**	BM *	2.650	14.806	10.0774
7	7.27	**Nitrate**	MB*	0.399	2.333	0.4750
TOTAL:				5.12	41.56	16.51



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 16:16**	*Run Time:*	**10.00**

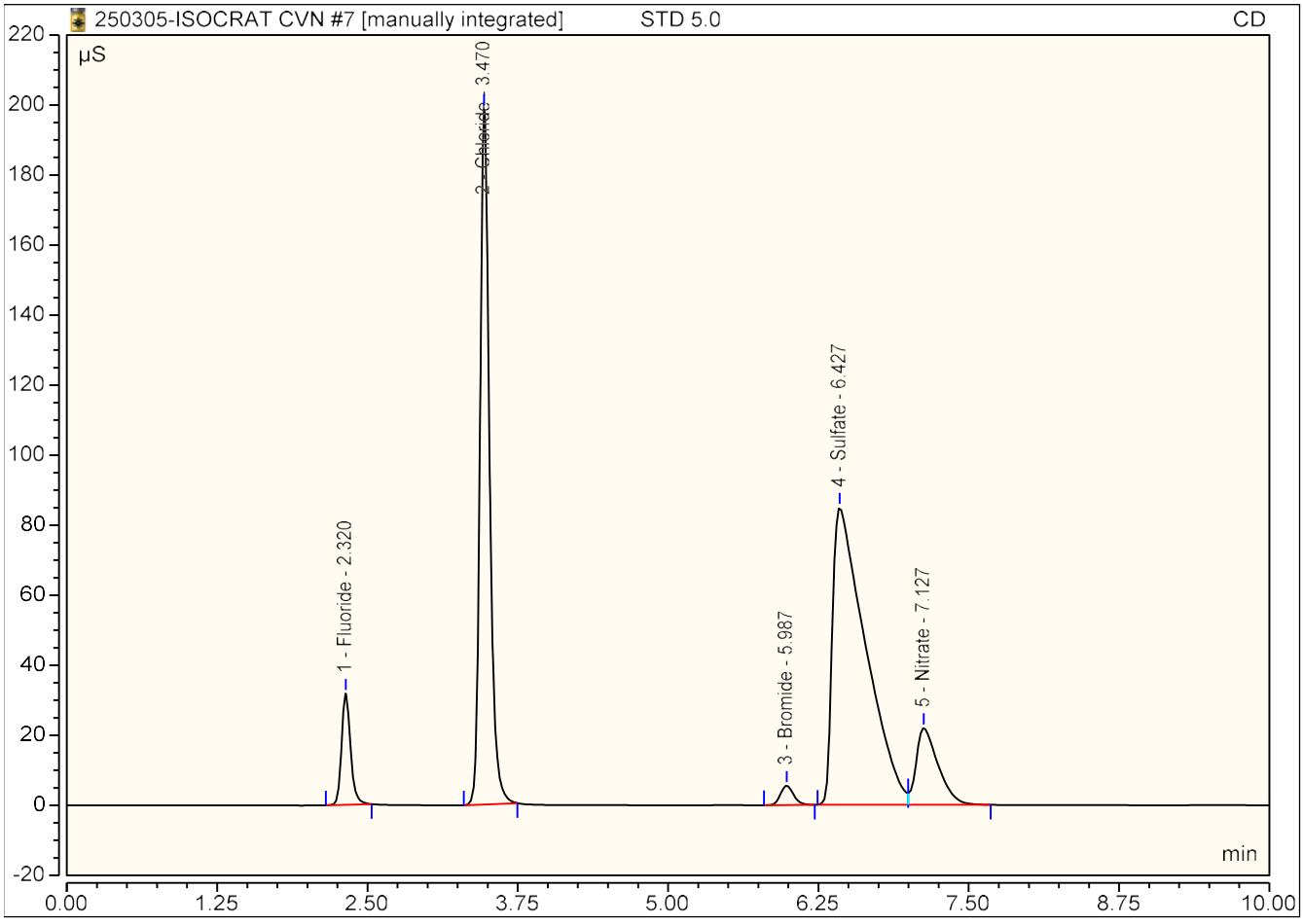
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	1.090	13.940	1.9996
3	3.48	**Chloride**	BMB	7.132	80.202	19.7542
5	6.03	**Bromide**	BMB	0.248	1.921	2.0099
6	6.61	**Sulfate**	BM *	10.667	44.745	39.6551
7	7.21	**Nitrate**	MB*	1.759	9.554	2.0072
TOTAL:				20.90	150.36	65.43



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 16:28**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	2.754	31.785	5.0029
2	3.47	**Chloride**	BMB	18.169	198.603	50.0968
3	5.99	**Bromide**	BMB	0.701	5.530	5.6299
4	6.43	**Sulfate**	BM *	27.058	84.892	100.1322
5	7.13	**Nitrate**	MB*	4.644	21.933	5.2562
TOTAL:				53.33	342.74	166.12



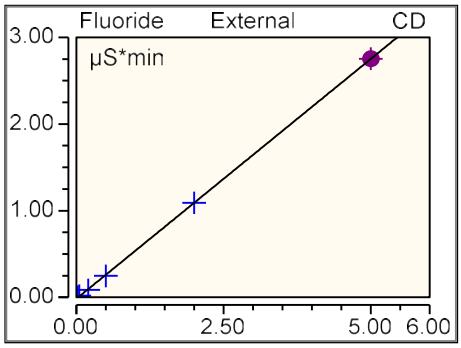
Calibration Batch Report

Sequence:	**250305-ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**24-Feb-2025 / 16:28**	*Run Time:*	**10**

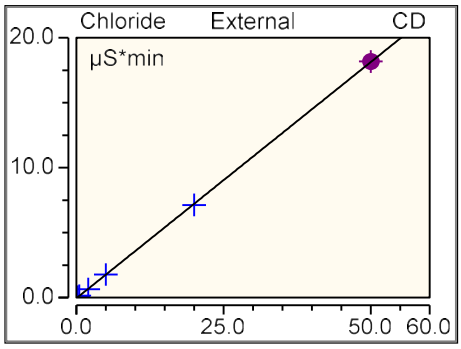
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.017	0.554	0.000	99.9921
Chloride	Area	in, WithOffse	6.000	-0.053	0.364	0.000	99.9953
Bromide	Area	in, WithOffse	5.000	-0.003	0.125	0.000	99.9125
Sulfate	Area	in, WithOffse	6.000	-0.081	0.271	0.000	99.9977
Nitrate	Area	in, WithOffse	5.000	-0.023	0.888	0.000	99.9464
		AVERAGE:		-0.0354	0.4403	0.0000	99.9688

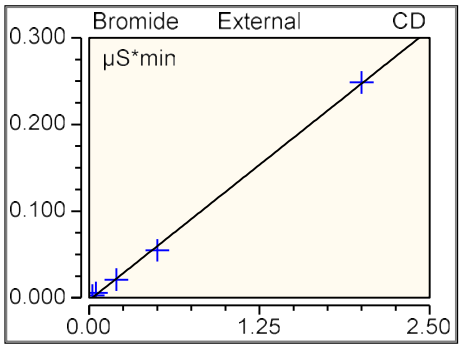
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.307	0.0092	0.120	0.048
STD 1.0	2.303	0.0184	0.241	0.064
STD 2.0	2.307	0.0847	1.170	0.184
STD 3.0	2.307	0.2470	3.424	0.477
STD 4.0	2.313	1.0904	13.940	2.000
STD 5.0	2.320	2.7539	31.785	5.003
Average	2.309			
Rel. Std. Dev.	0.265 %			



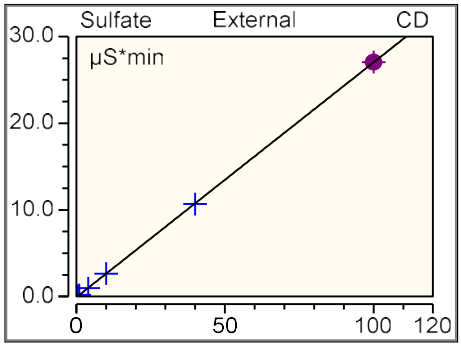
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.487	0.0836	0.957	0.376
STD 1.0	3.487	0.1451	1.688	0.545
STD 2.0	3.487	0.6584	7.728	1.956
STD 3.0	3.487	1.7737	20.601	5.022
STD 4.0	3.480	7.1322	80.202	19.754
STD 5.0	3.470	18.1689	198.603	50.097
Average	3.483			
Rel. Std. Dev.	0.195 %			



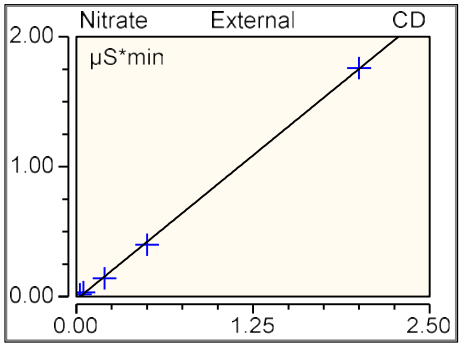
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	6.077	0.0028	0.019	0.046
STD 1.0	6.067	0.0055	0.037	0.067
STD 2.0	6.067	0.0209	0.145	0.191
STD 3.0	6.060	0.0547	0.392	0.461
STD 4.0	6.033	0.2485	1.921	2.010
STD 5.0	5.987	0.7014	5.530	5.630
Average	6.048			
Rel. Std. Dev.	0.555 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.833	0.0994	0.573	0.667
STD 1.0	6.833	0.2040	1.209	1.053
STD 2.0	6.807	0.9796	5.839	3.915
STD 3.0	6.757	2.6499	14.806	10.077
STD 4.0	6.607	10.6666	44.745	39.655
STD 5.0	6.427	27.0582	84.892	100.132
Average	6.711			
Rel. Std. Dev.	2.429 %			



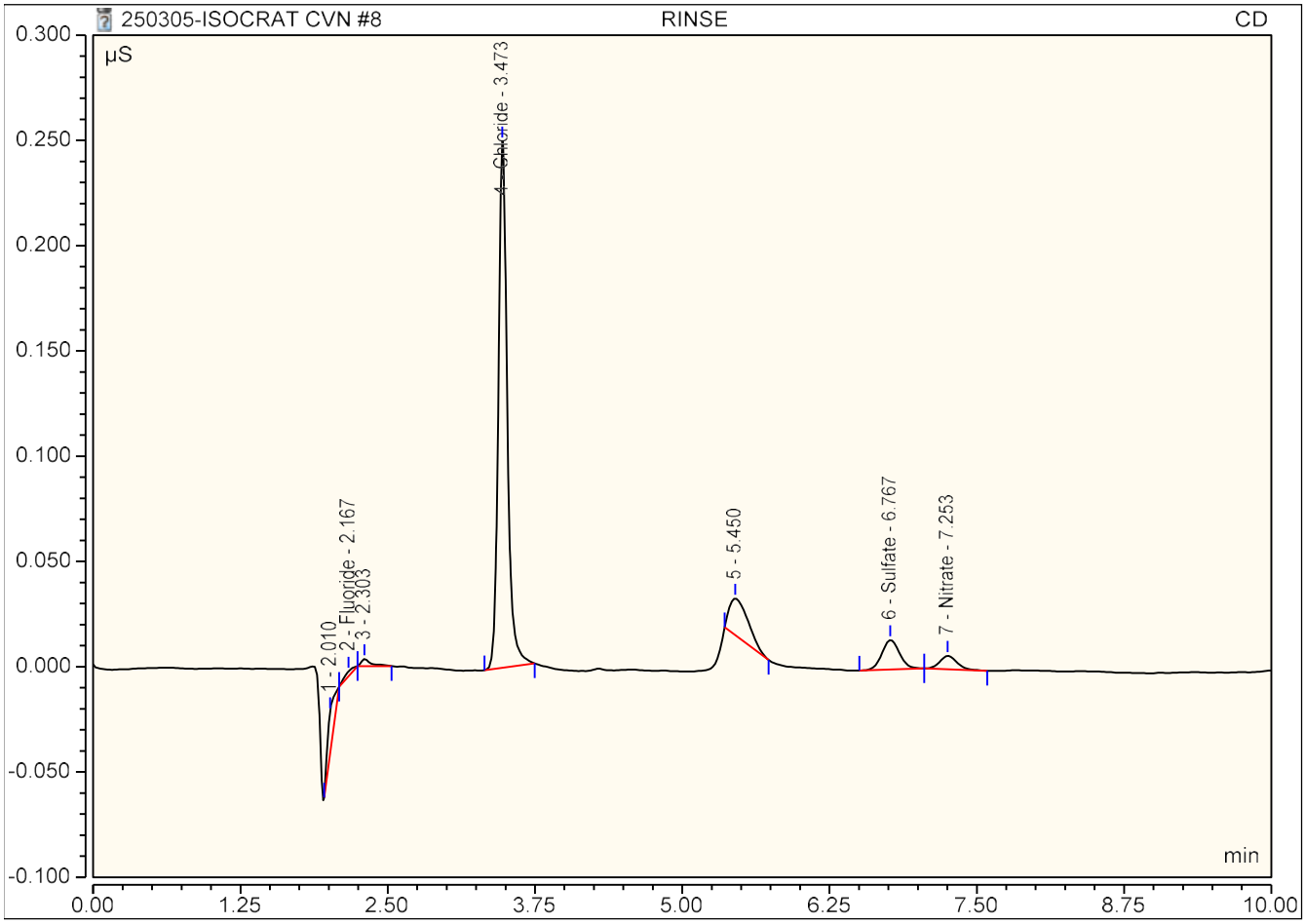
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	7.297	0.0171	0.096	0.045
STD 1.0	7.293	0.0339	0.181	0.063
STD 2.0	7.283	0.1415	0.807	0.185
STD 3.0	7.267	0.3992	2.333	0.475
STD 4.0	7.207	1.7593	9.554	2.007
STD 5.0	7.127	4.6435	21.933	5.256
Average	7.246			
Rel. Std. Dev.	0.924 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 11:52**	*Run Time:*	**10.00**

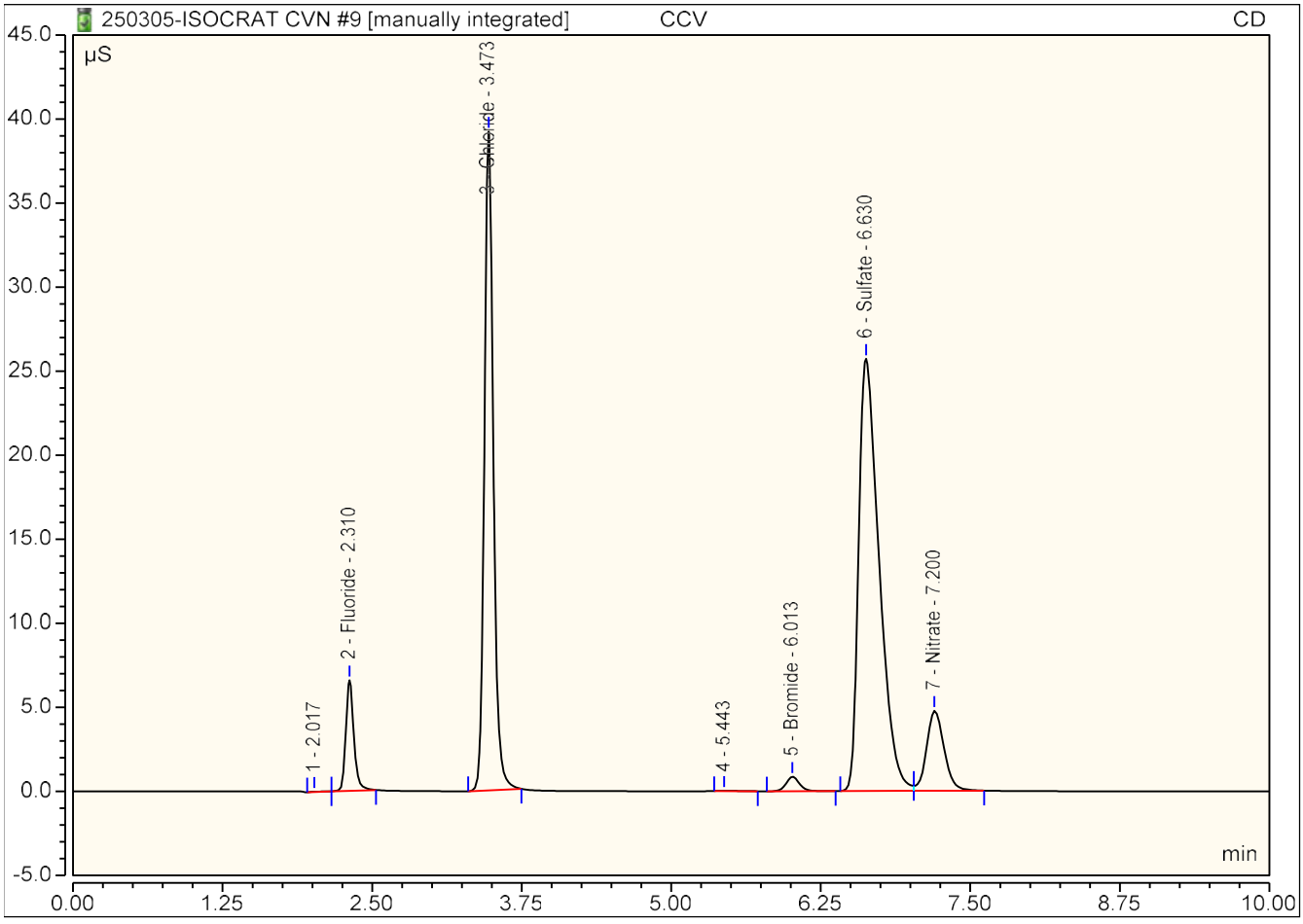
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.17	**Fluoride**	BMB	0.000	0.002	0.0313
4	3.47	**Chloride**	BMB	0.022	0.250	0.2062
6	6.77	**Sulfate**	BMB	0.002	0.014	0.3096
7	7.25	**Nitrate**	BMB	0.001	0.006	0.0266
TOTAL:				0.03	0.27	0.57



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 12:04**	*Run Time:*	**10.00**

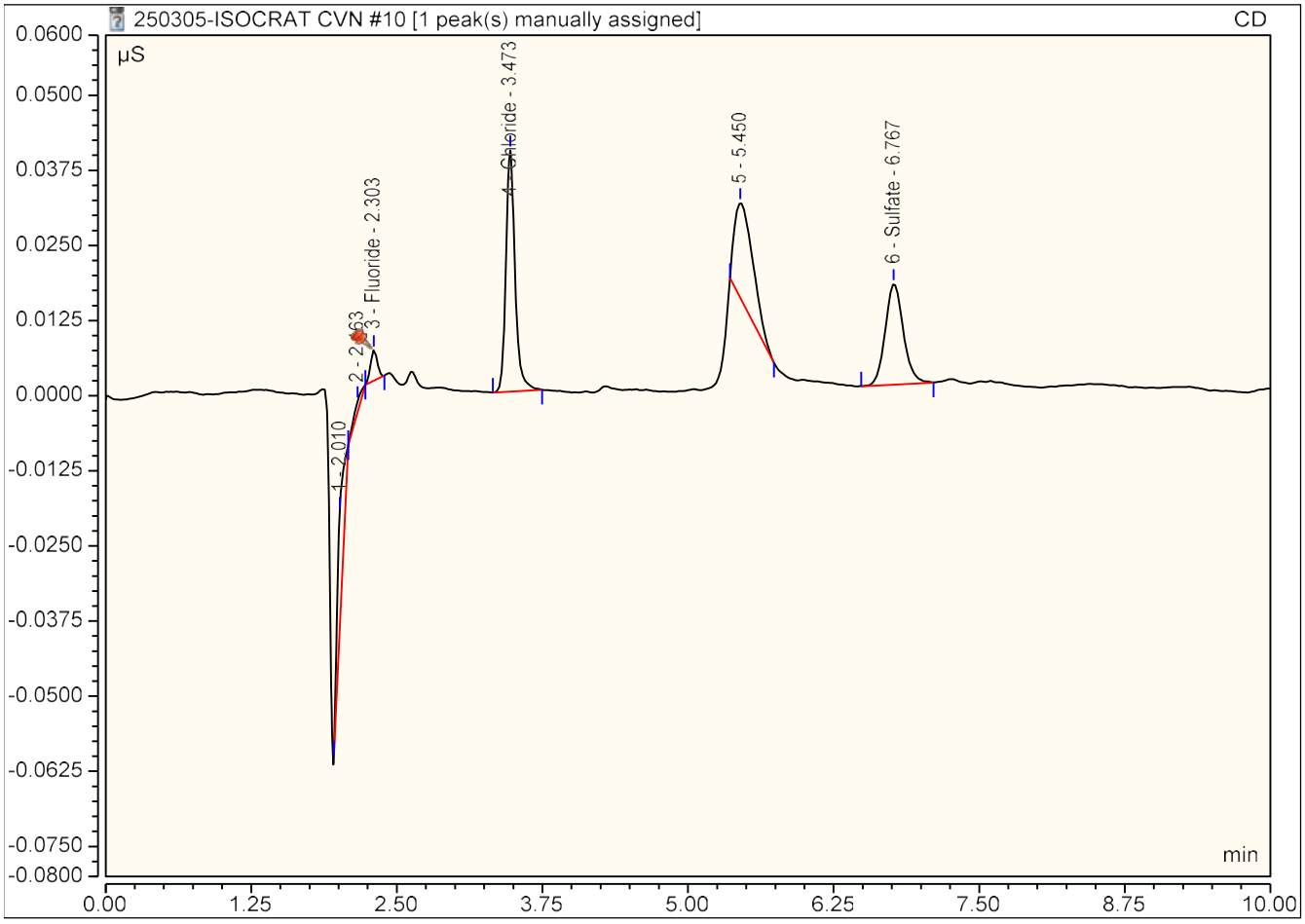
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.505	6.584	0.9428
3	3.47	**Chloride**	BMB	3.408	39.198	9.5146
5	6.01	**Bromide**	BMB	0.113	0.868	0.9229
6	6.63	**Sulfate**	BM *	5.083	25.707	19.0556
7	7.20	**Nitrate**	MB*	0.807	4.760	0.9343
TOTAL:				9.92	77.12	31.37



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 12:16**	*Run Time:*	**10.00**

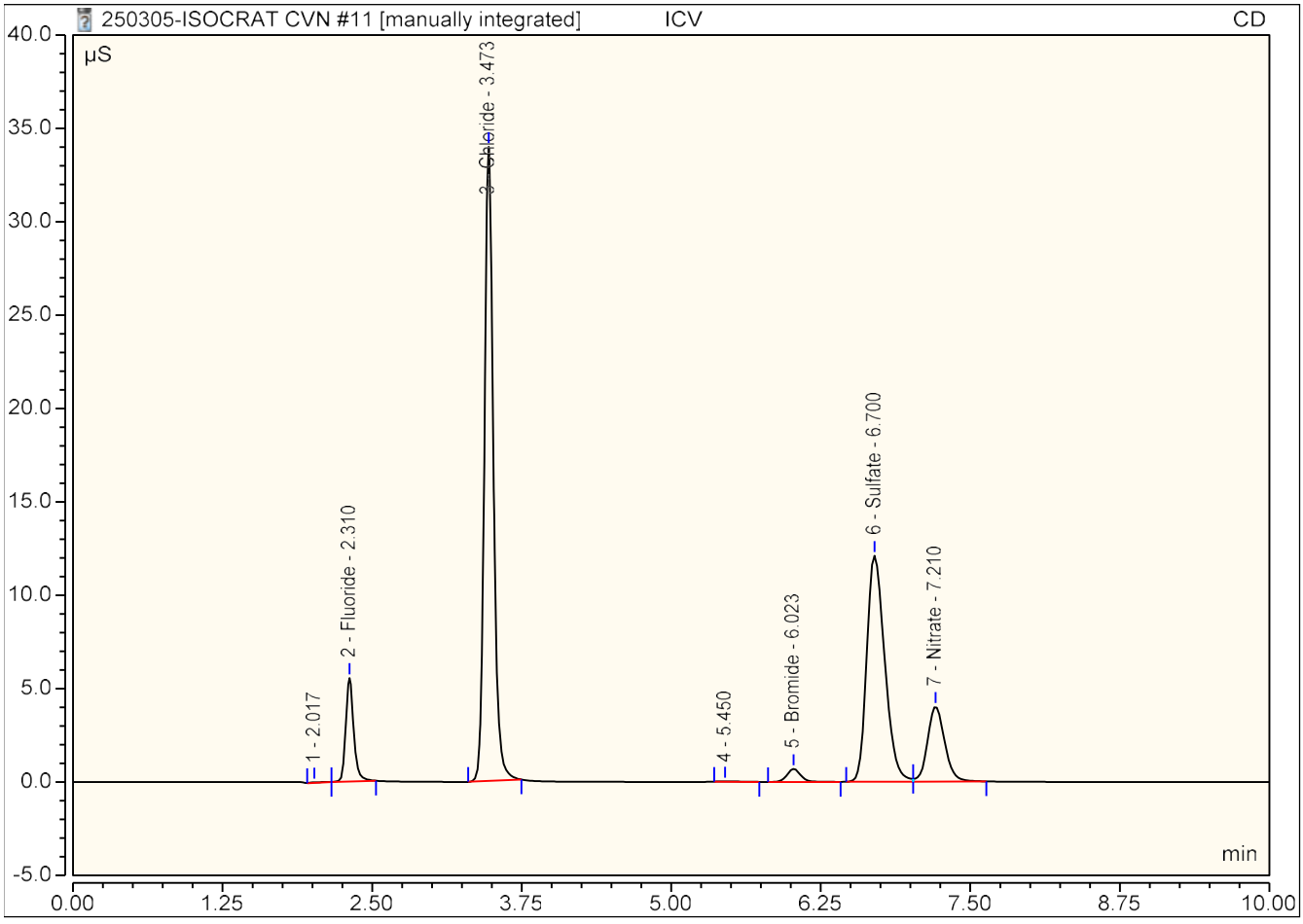
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.005	0.0316
4	3.47	**Chloride**	BMB	0.004	0.040	0.1559
6	6.77	**Sulfate**	BMB	0.003	0.017	0.3118
TOTAL:				0.01	0.06	0.50



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 12:28**	*Run Time:*	**10.00**

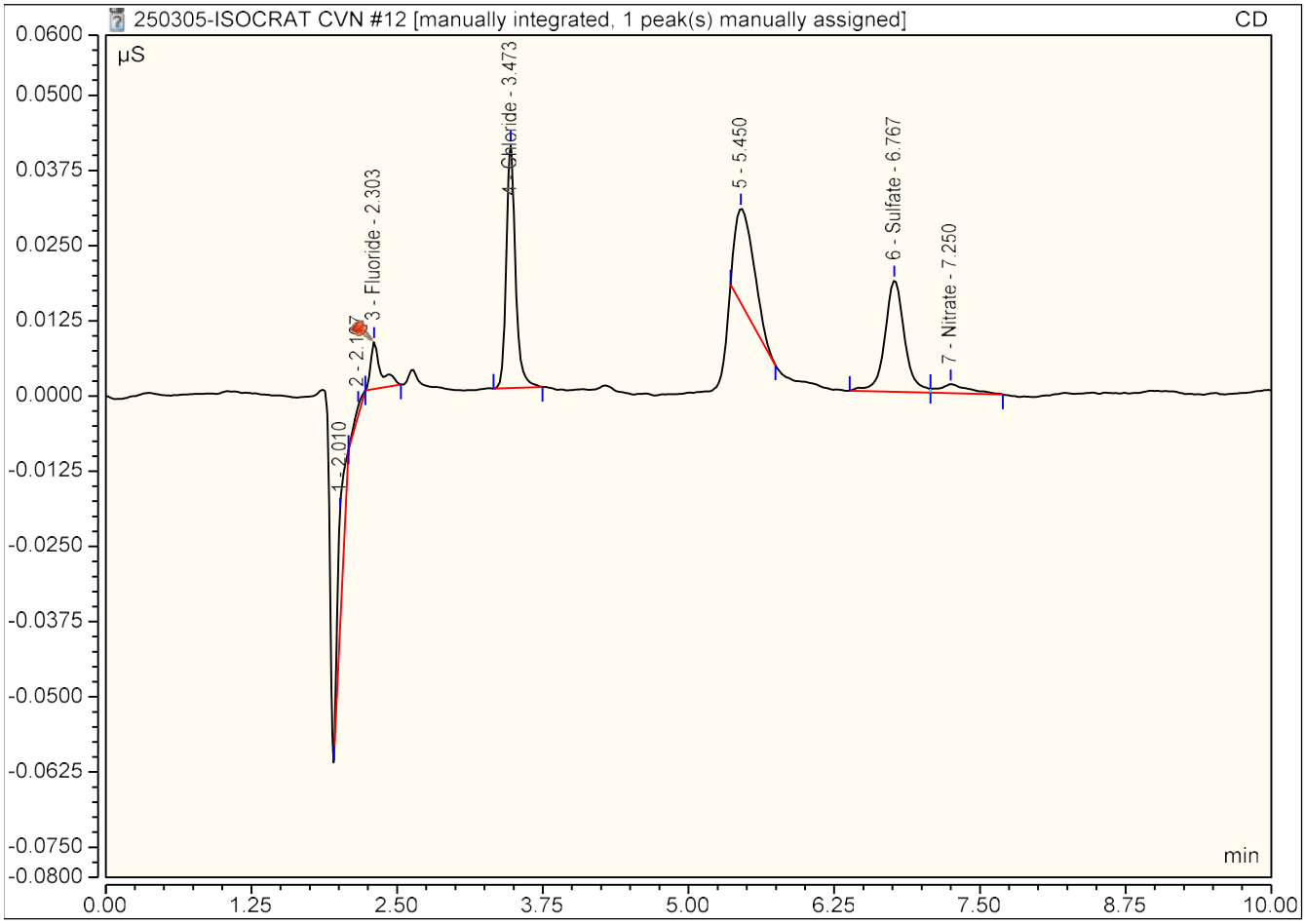
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.422	5.546	0.7926
3	3.47	**Chloride**	BMB	2.947	33.956	8.2493
5	6.02	**Bromide**	BMB	0.092	0.699	0.7577
6	6.70	**Sulfate**	BM *	2.109	12.102	8.0821
7	7.21	**Nitrate**	MB*	0.666	4.014	0.7761
TOTAL:				6.24	56.32	18.66



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 12:40**	*Run Time:*	**10.00**

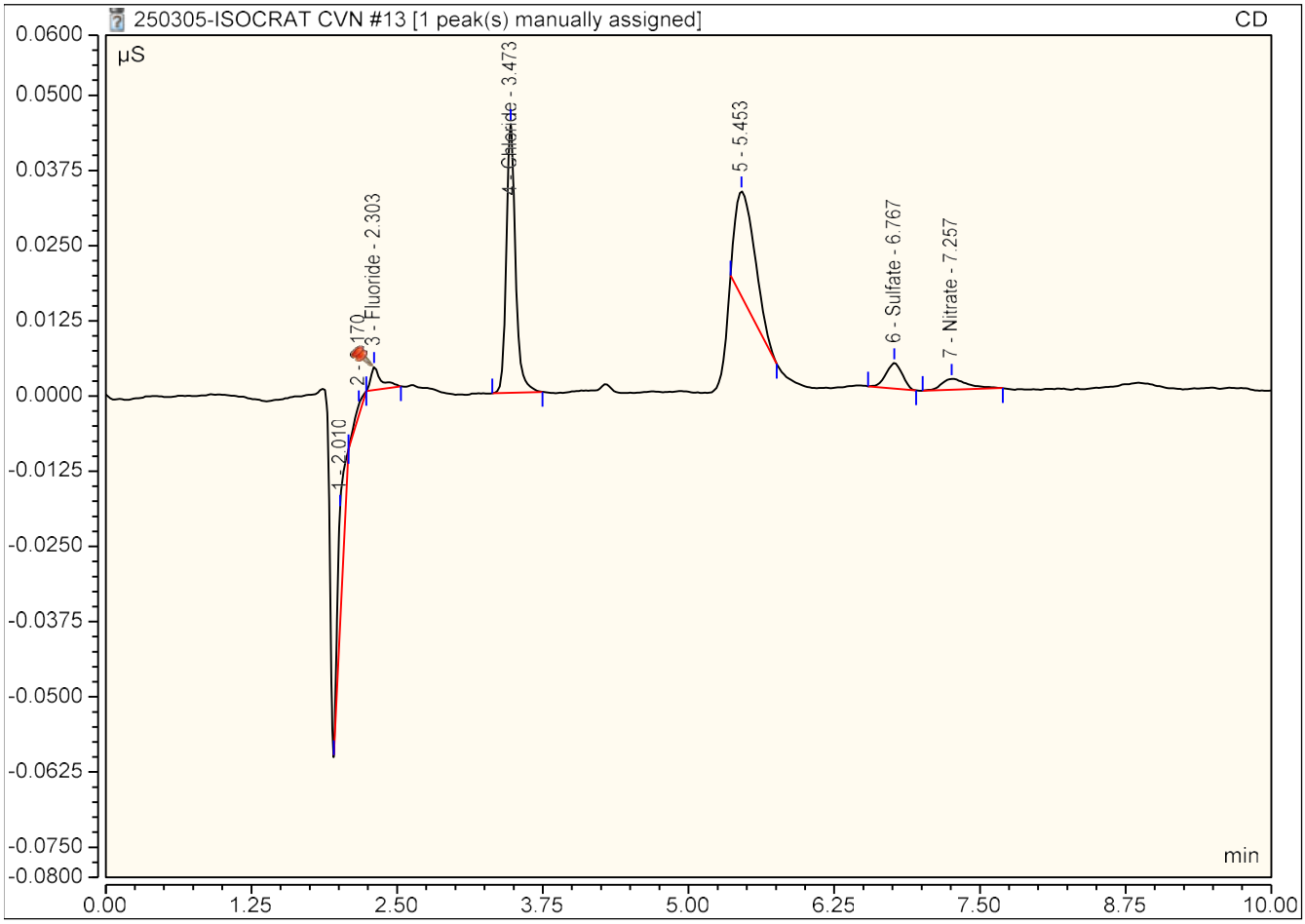
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.001	0.008	0.0324
4	3.47	**Chloride**	BMB	0.004	0.040	0.1561
6	6.77	**Sulfate**	BM *	0.004	0.019	0.3139
7	7.25	**Nitrate**	MB*	0.000	0.002	0.0258
TOTAL:				0.01	0.07	0.53



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 12:52**	*Run Time:*	**10.00**

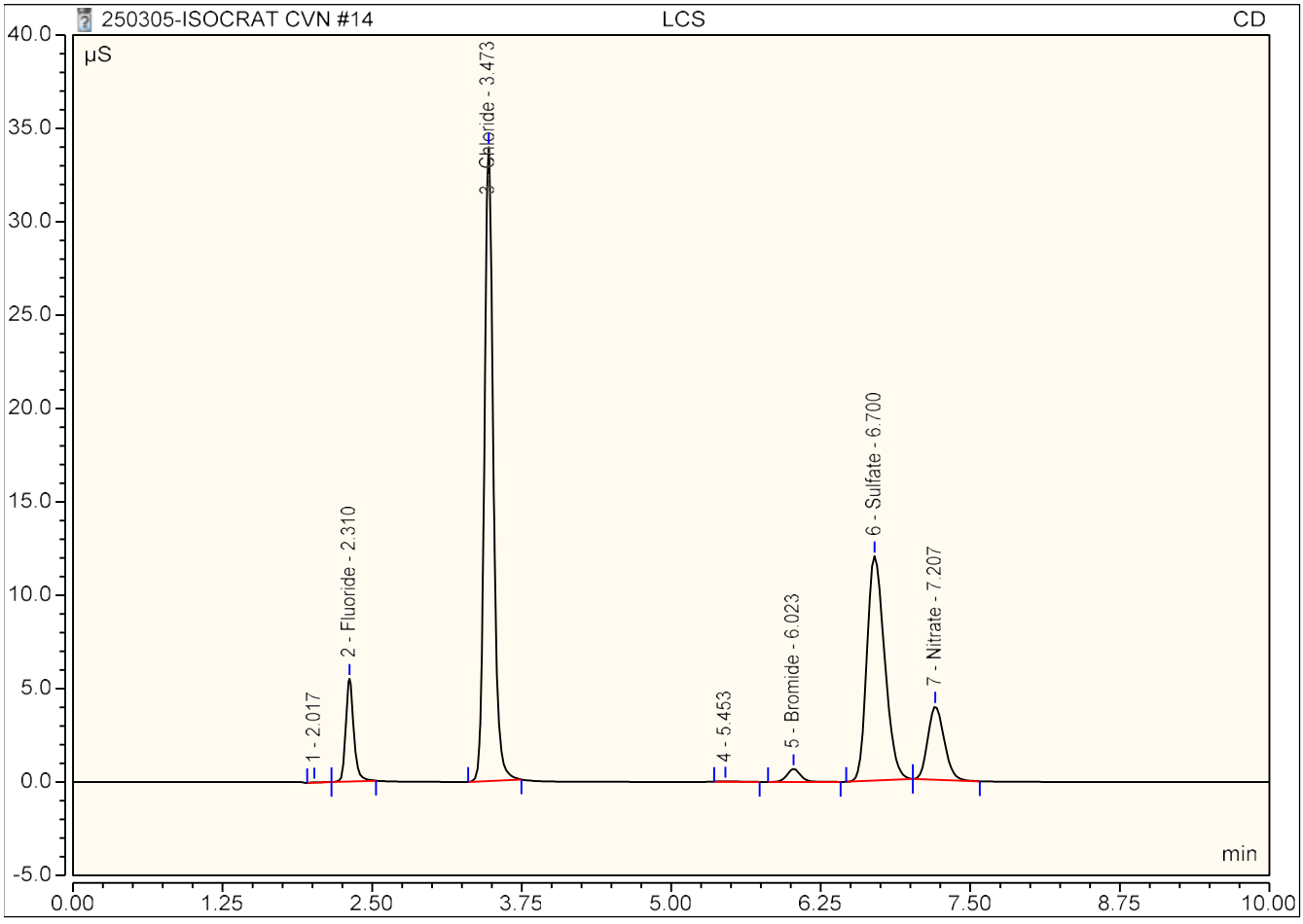
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.004	0.0317
4	3.47	**Chloride**	BMB	0.004	0.045	0.1571
6	6.77	**Sulfate**	BMB	0.001	0.004	0.3032
7	7.26	**Nitrate**	BMB	0.000	0.002	0.0259
TOTAL:				0.01	0.05	0.52



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 13:04**	*Run Time:*	**10.00**

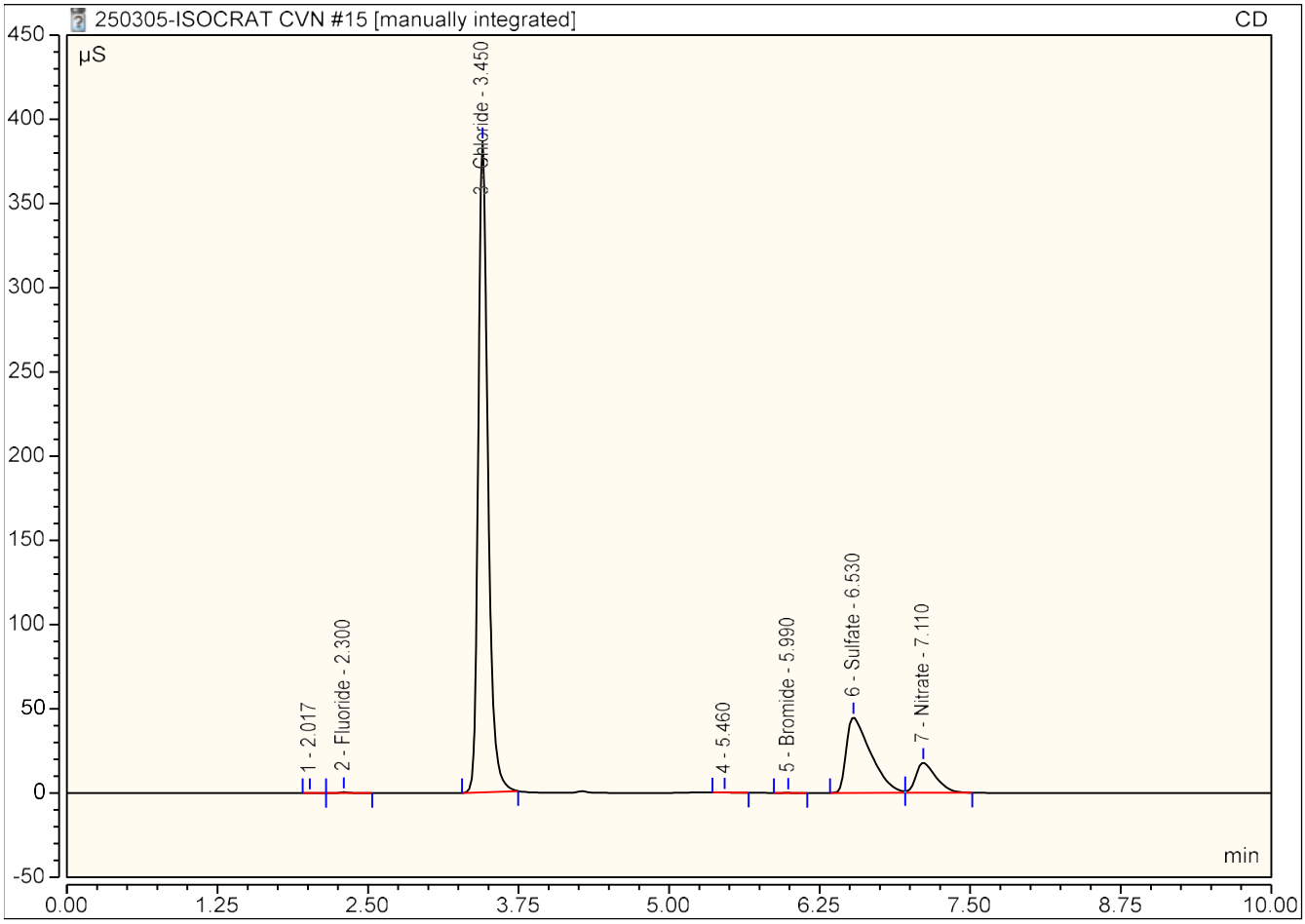
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.420	5.508	0.7897
3	3.47	**Chloride**	BMB	2.945	33.932	8.2417
5	6.02	**Bromide**	BMB	0.092	0.700	0.7587
6	6.70	**Sulfate**	BMB	2.067	12.014	7.9251
7	7.21	**Nitrate**	BMB	0.622	3.917	0.7261
TOTAL:				6.15	56.07	18.44



Peak Integration Report

Sample Name:	**L2511871-01 F SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 13:16**	*Run Time:*	**10.00**

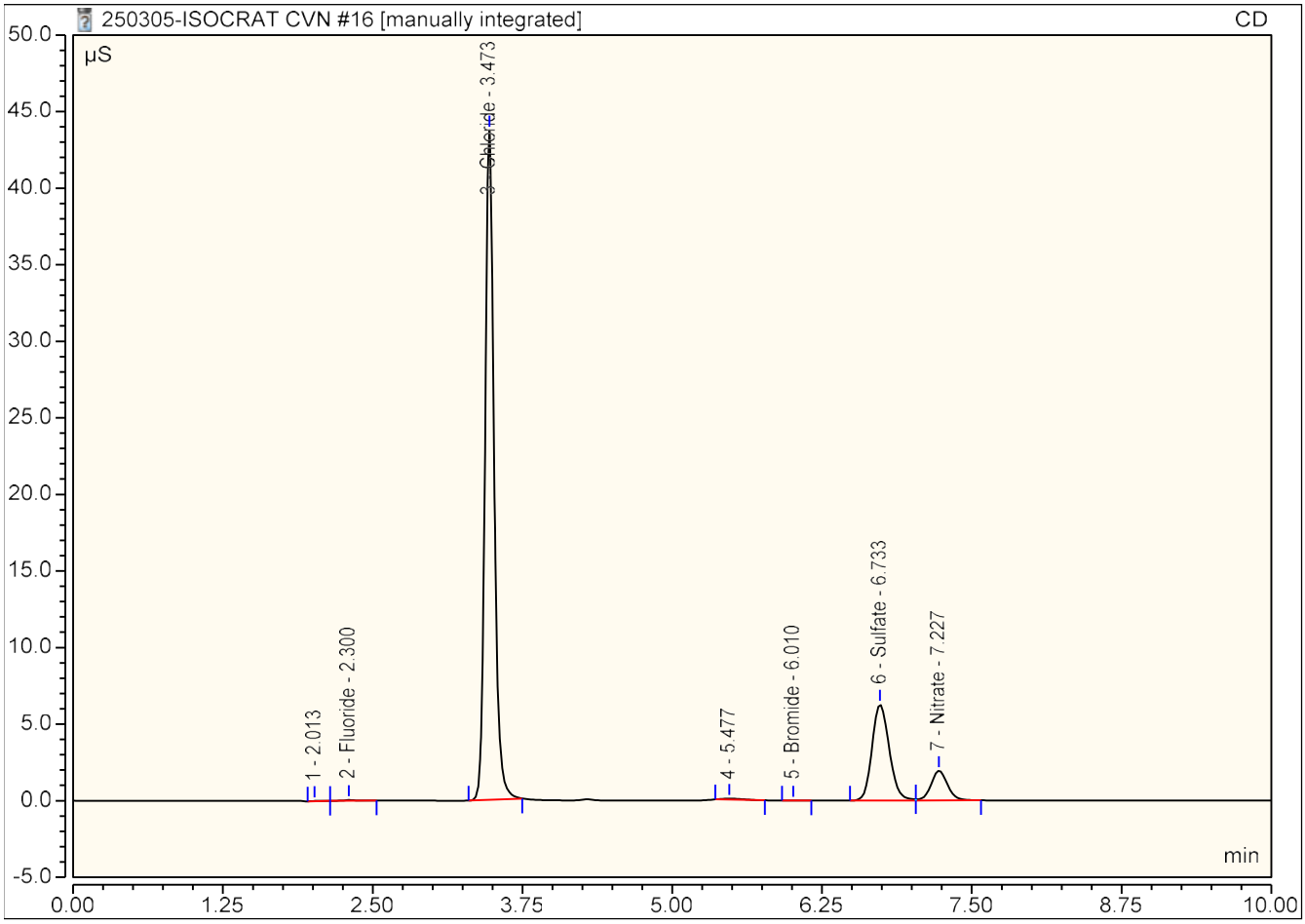
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.040	0.526	0.1031
3	3.45	**Chloride**	BMB	36.046	386.033	99.2462
5	5.99	**Bromide**	BMB	0.004	0.034	0.0552
6	6.53	**Sulfate**	BM *	10.497	44.819	39.0299
7	7.11	**Nitrate**	MB*	3.453	17.896	3.9151
TOTAL:				50.04	449.31	142.35



Peak Integration Report

Sample Name:	**L2511871-01; 10X CL NO3**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 13:28**	*Run Time:*	**10.00**

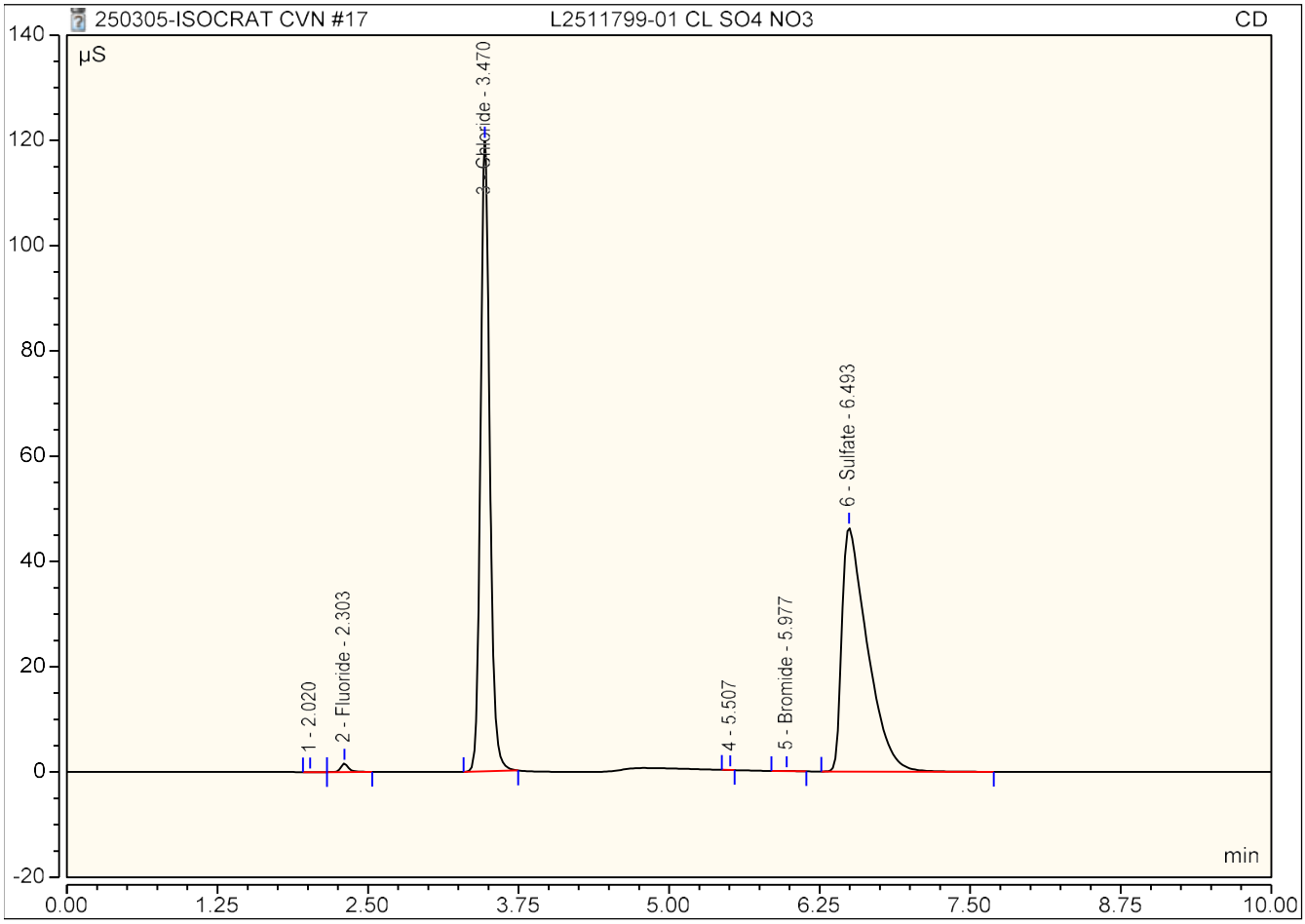
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.004	0.050	0.3895
3	3.47	**Chloride**	BMB	3.809	43.717	106.1854
5	6.01	**Bromide**	BMB	0.000	0.003	0.2677
6	6.73	**Sulfate**	BM *	1.044	6.273	41.5316
7	7.23	**Nitrate**	MB*	0.310	1.927	3.7428
TOTAL:				5.17	51.97	152.12



Peak Integration Report

Sample Name:	**L2511799-01 CL SO4 NO3**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 13:40**	*Run Time:*	**10.00**

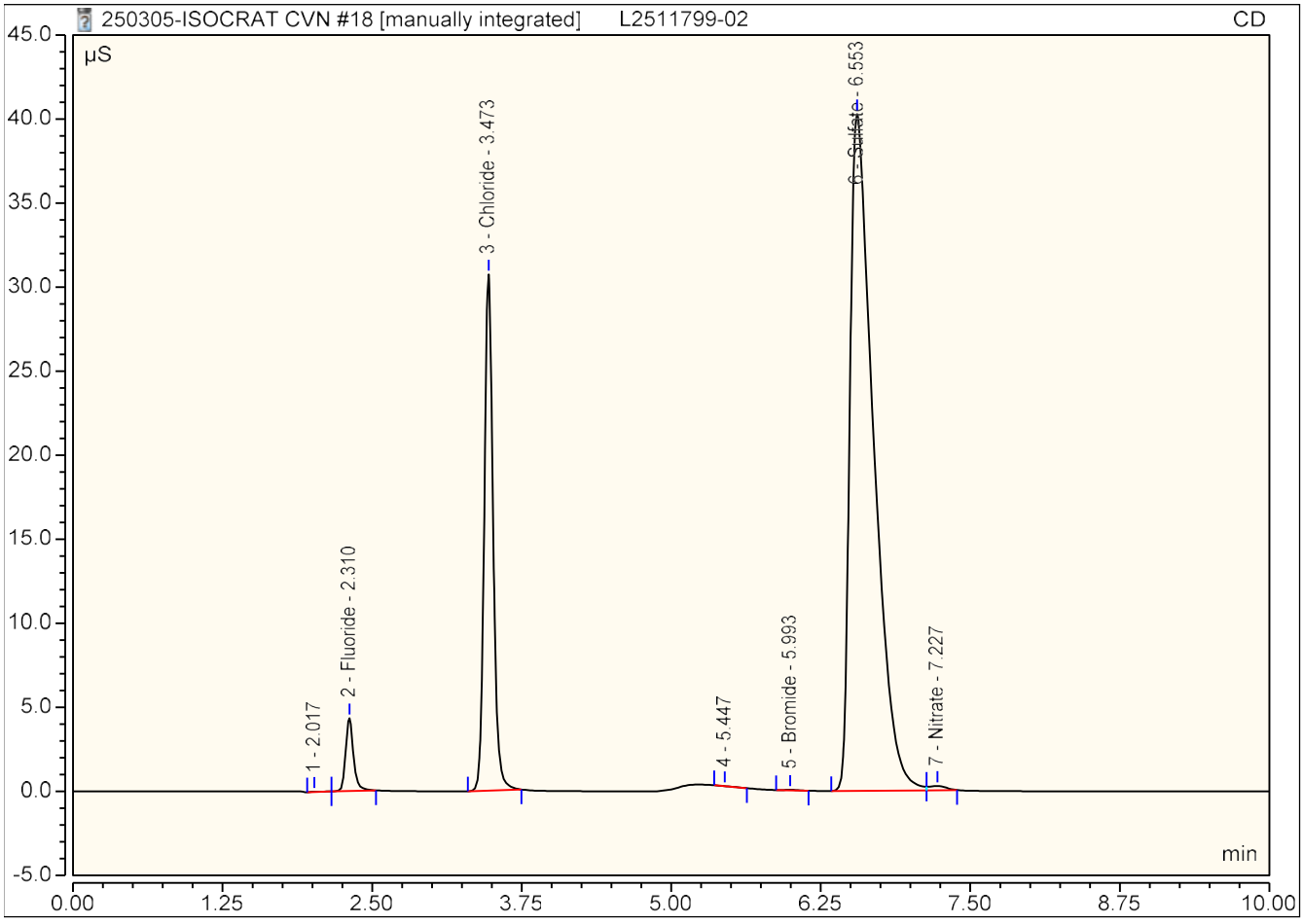
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.120	1.602	0.2480
3	3.47	**Chloride**	BMB	10.648	119.682	29.4190
5	5.98	**Bromide**	BMB	0.007	0.059	0.0824
6	6.49	**Sulfate**	BMB	11.385	46.379	42.3062
TOTAL:				22.16	167.72	72.06



Peak Integration Report

Sample Name:	**L2511799-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 13:53**	*Run Time:*	**10.00**

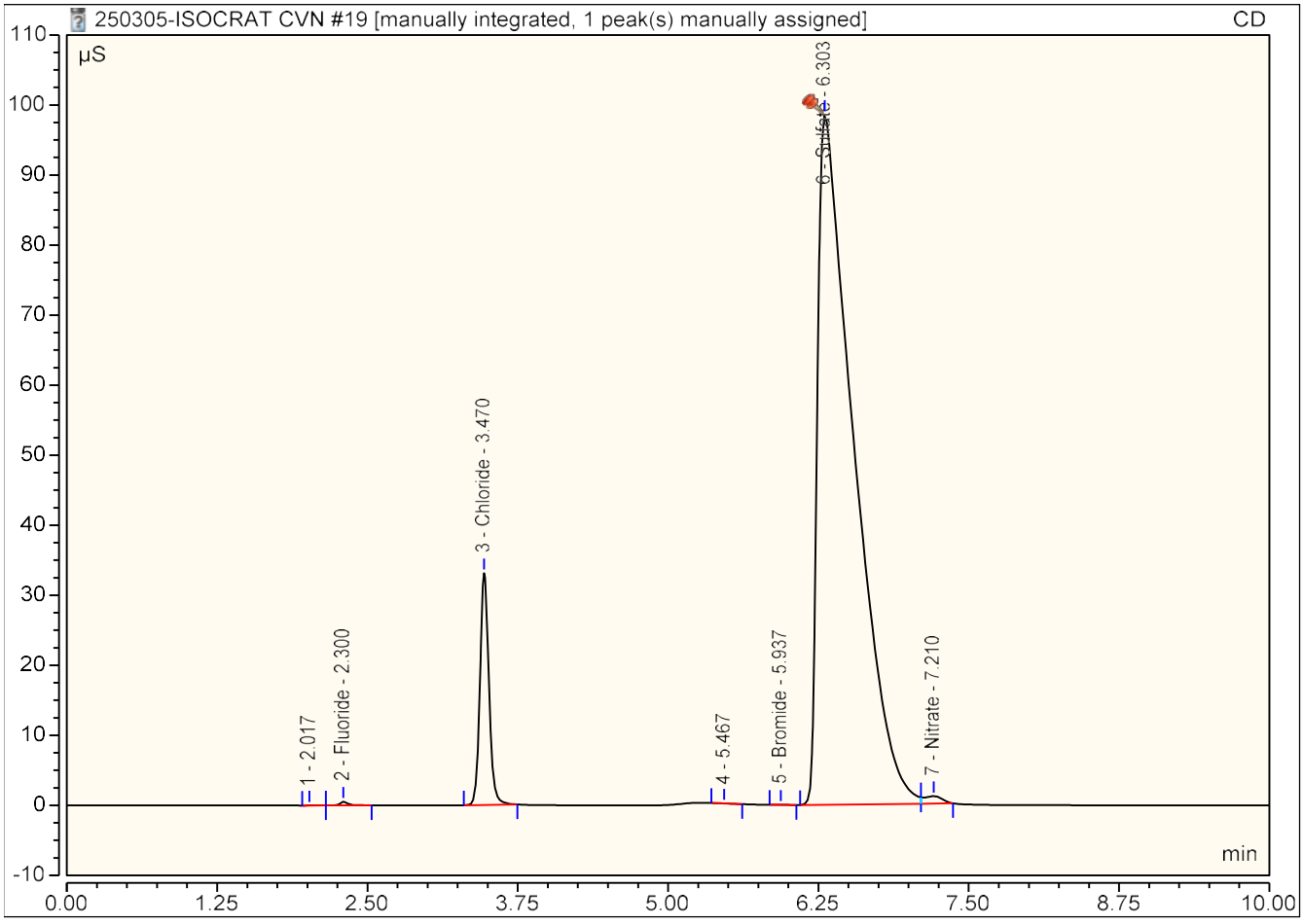
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.326	4.328	0.6194
3	3.47	**Chloride**	BMB	2.638	30.715	7.3994
5	5.99	**Bromide**	BMB	0.004	0.035	0.0565
6	6.55	**Sulfate**	BM *	9.229	40.262	34.3506
7	7.23	**Nitrate**	MB*	0.043	0.256	0.0733
TOTAL:				12.24	75.60	42.50



Peak Integration Report

Sample Name:	**L2511799-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 14:05**	*Run Time:*	**10.00**

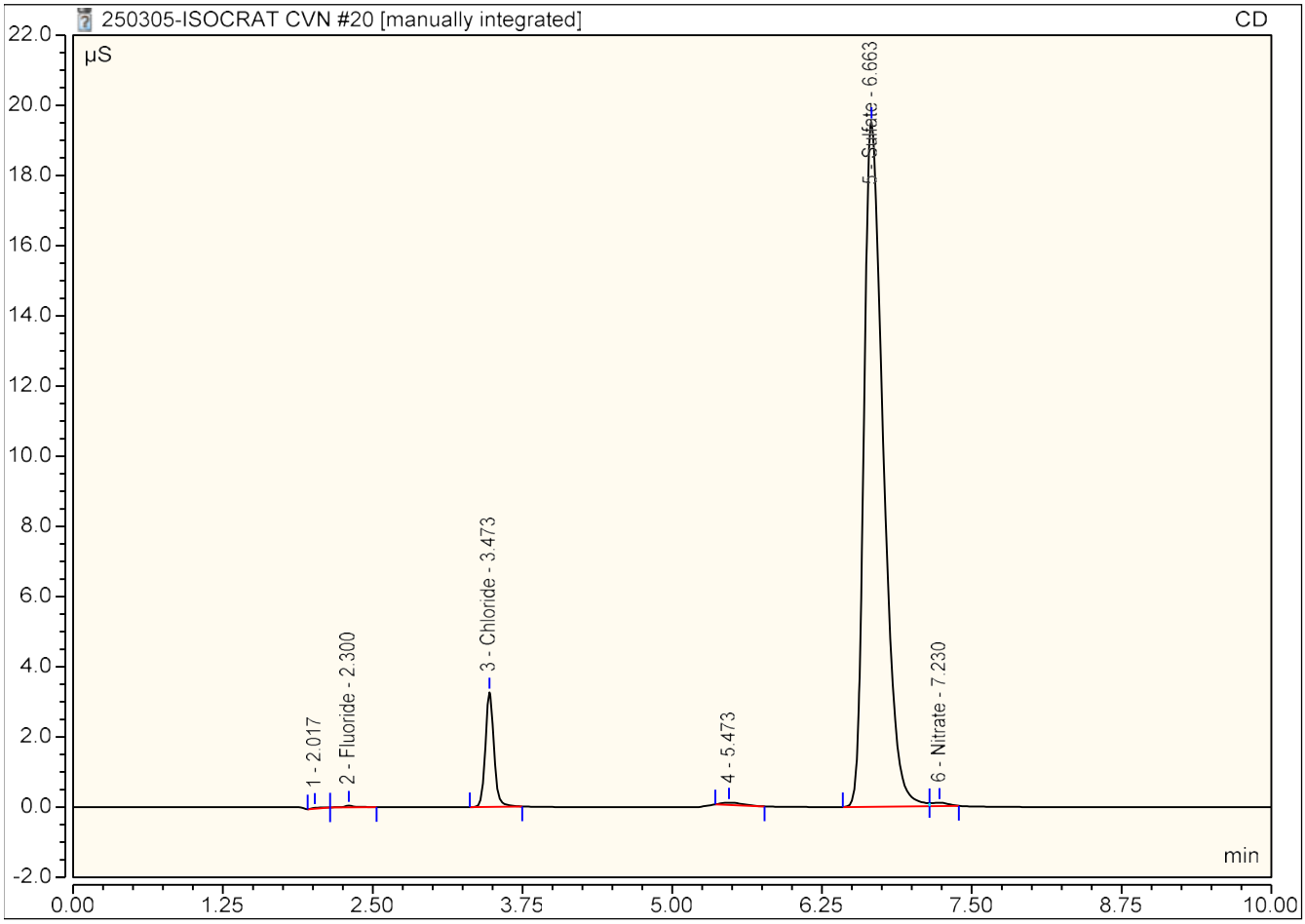
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.040	0.526	0.1027
3	3.47	**Chloride**	BMB	2.849	33.086	7.9780
5	5.94	**Bromide**	BMB	0.002	0.017	0.0390
6	6.30	**Sulfate**	BM *^	34.234	98.509	126.6071
7	7.21	**Nitrate**	MB*	0.186	1.059	0.2352
TOTAL:				37.31	133.20	134.96



Peak Integration Report

Sample Name:	**L2511799-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 14:17**	*Run Time:*	**10.00**

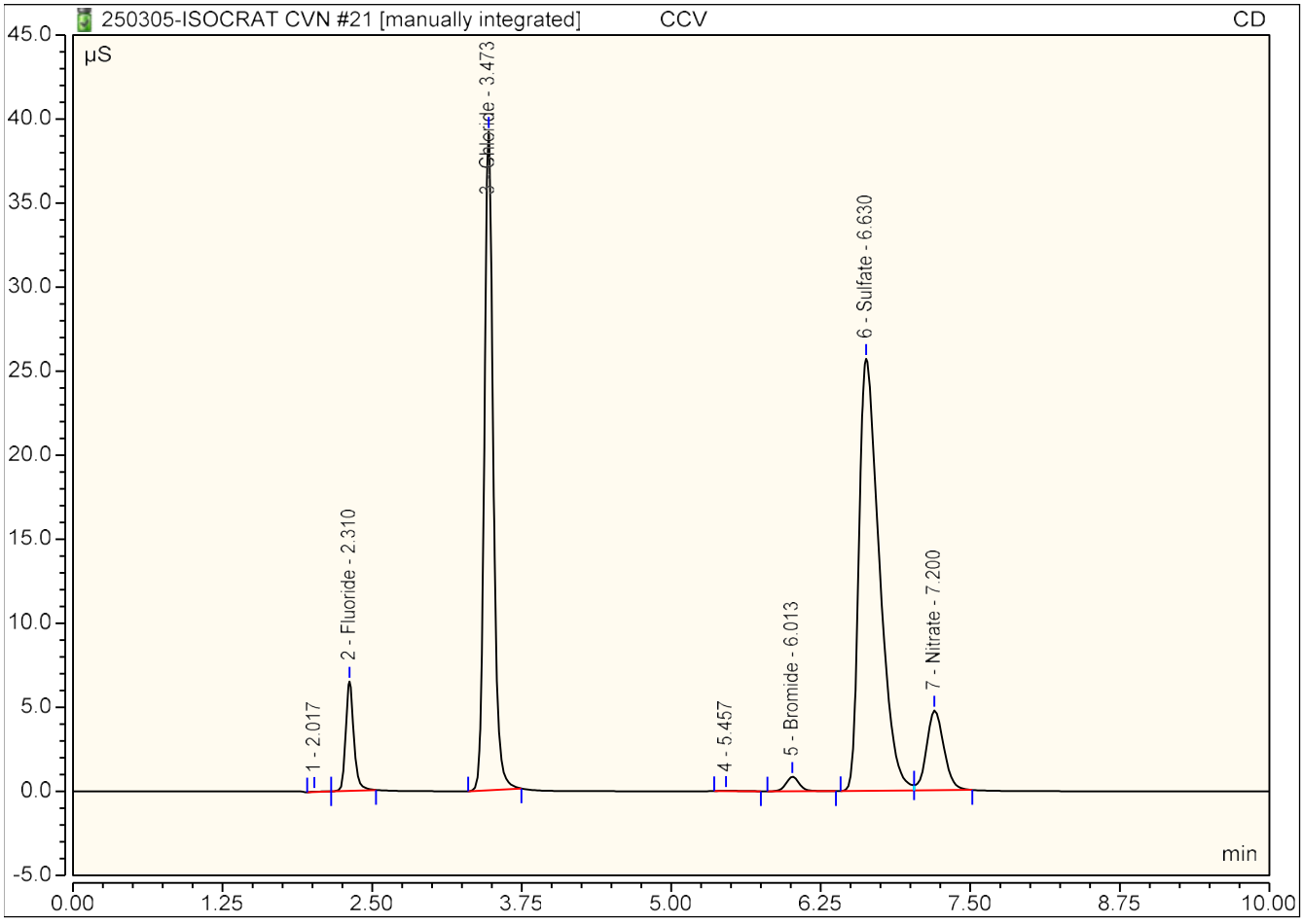
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.005	0.051	0.3944
3	3.47	**Chloride**	BMB	0.269	3.261	8.8568
5	6.66	**Sulfate**	BM *	3.651	19.511	137.7055
6	7.23	**Nitrate**	MB*	0.016	0.097	0.4311
TOTAL:				3.94	22.92	147.39



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 14:29**	*Run Time:*	**10.00**

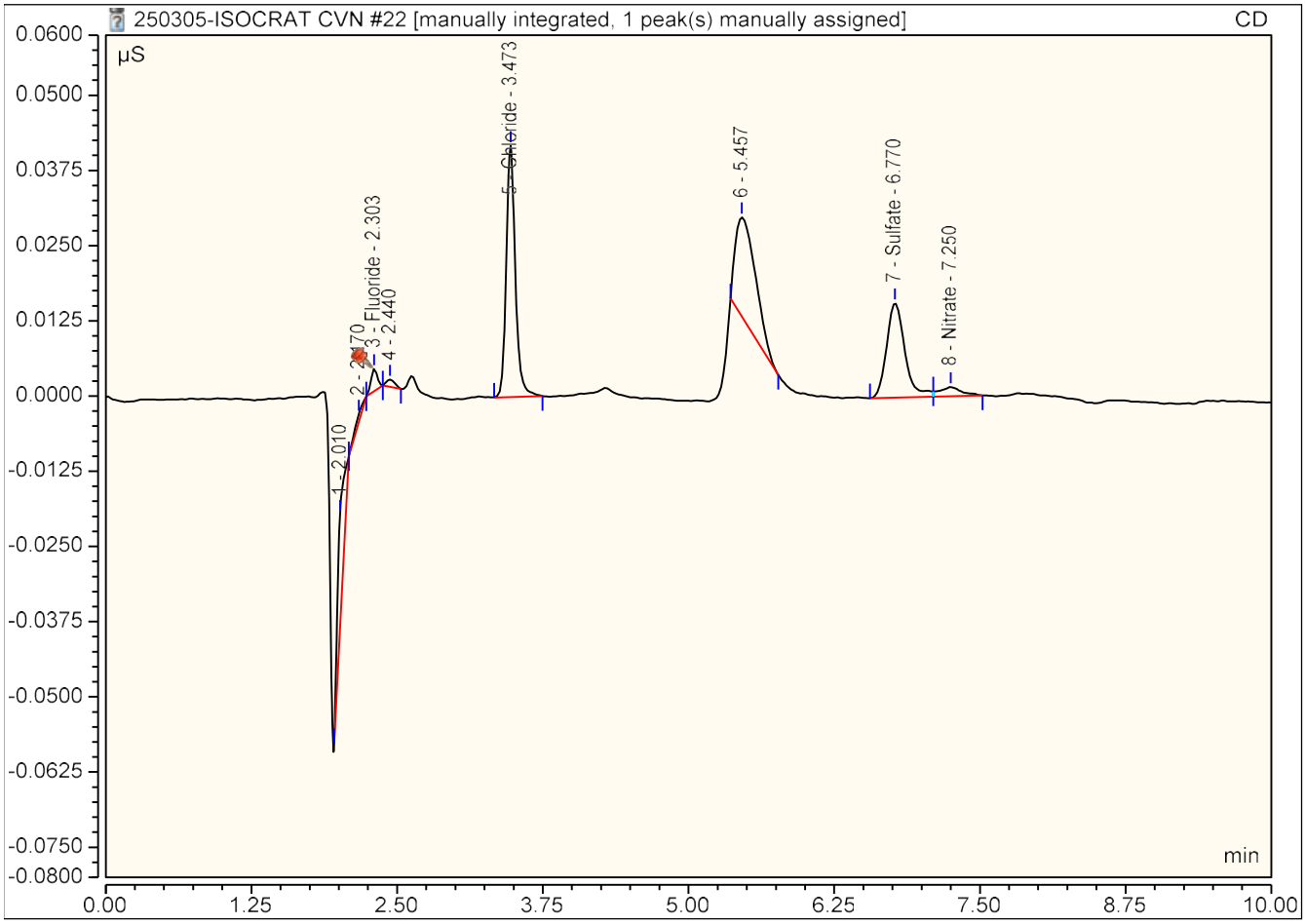
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.504	6.511	0.9401
3	3.47	**Chloride**	BMB	3.402	39.179	9.4999
5	6.01	**Bromide**	BMB	0.113	0.870	0.9238
6	6.63	**Sulfate**	BM *	5.074	25.711	19.0199
7	7.20	**Nitrate**	MB*	0.795	4.748	0.9212
TOTAL:				9.89	77.02	31.30



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 14:41**	*Run Time:*	**10.00**

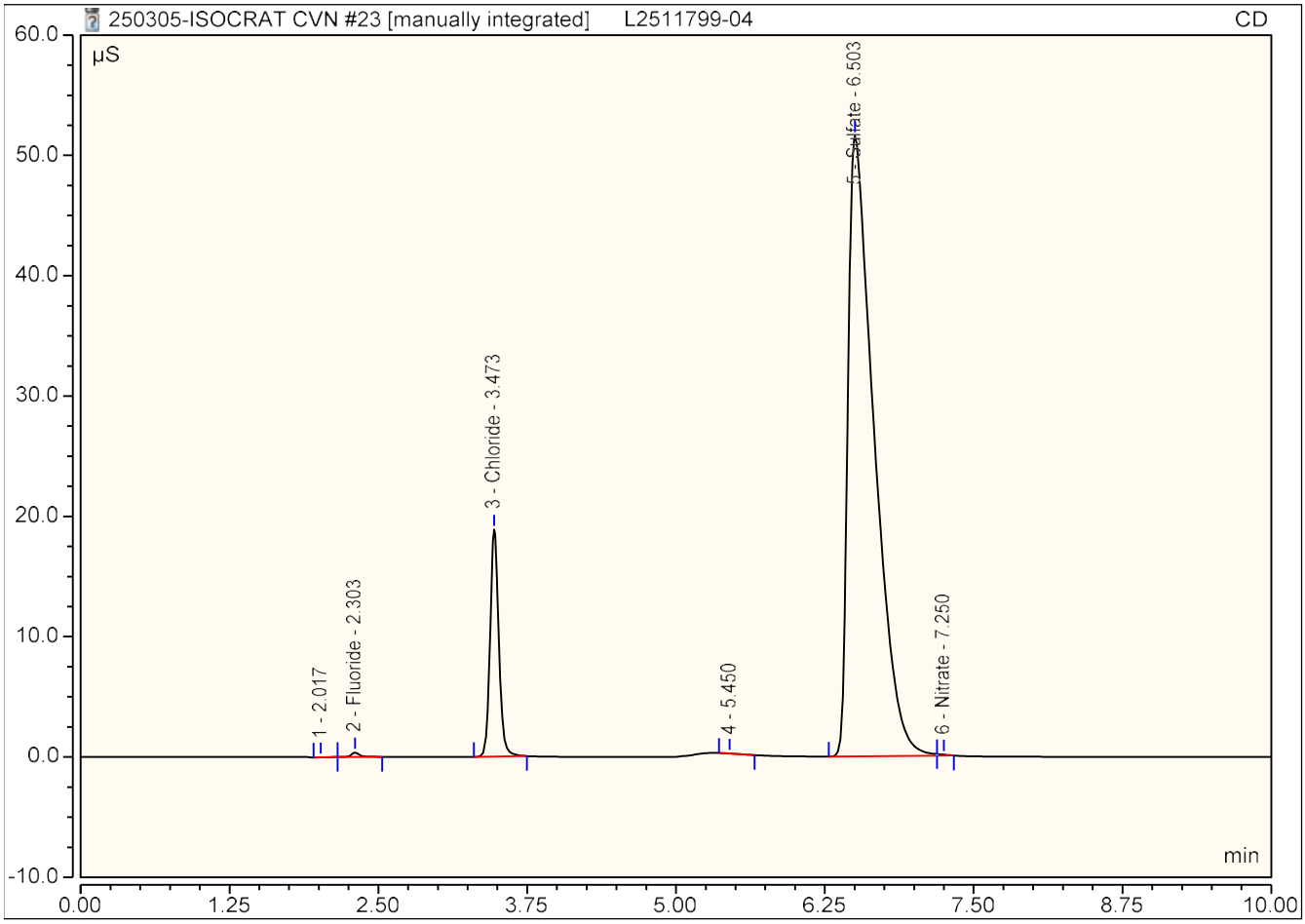
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.004	0.0314
5	3.47	**Chloride**	BMB	0.004	0.042	0.1562
7	6.77	**Sulfate**	BM *	0.003	0.016	0.3112
8	7.25	**Nitrate**	MB*	0.000	0.002	0.0257
TOTAL:				0.01	0.06	0.52



Peak Integration Report

Sample Name:	**L2511799-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 14:53**	*Run Time:*	**10.00**

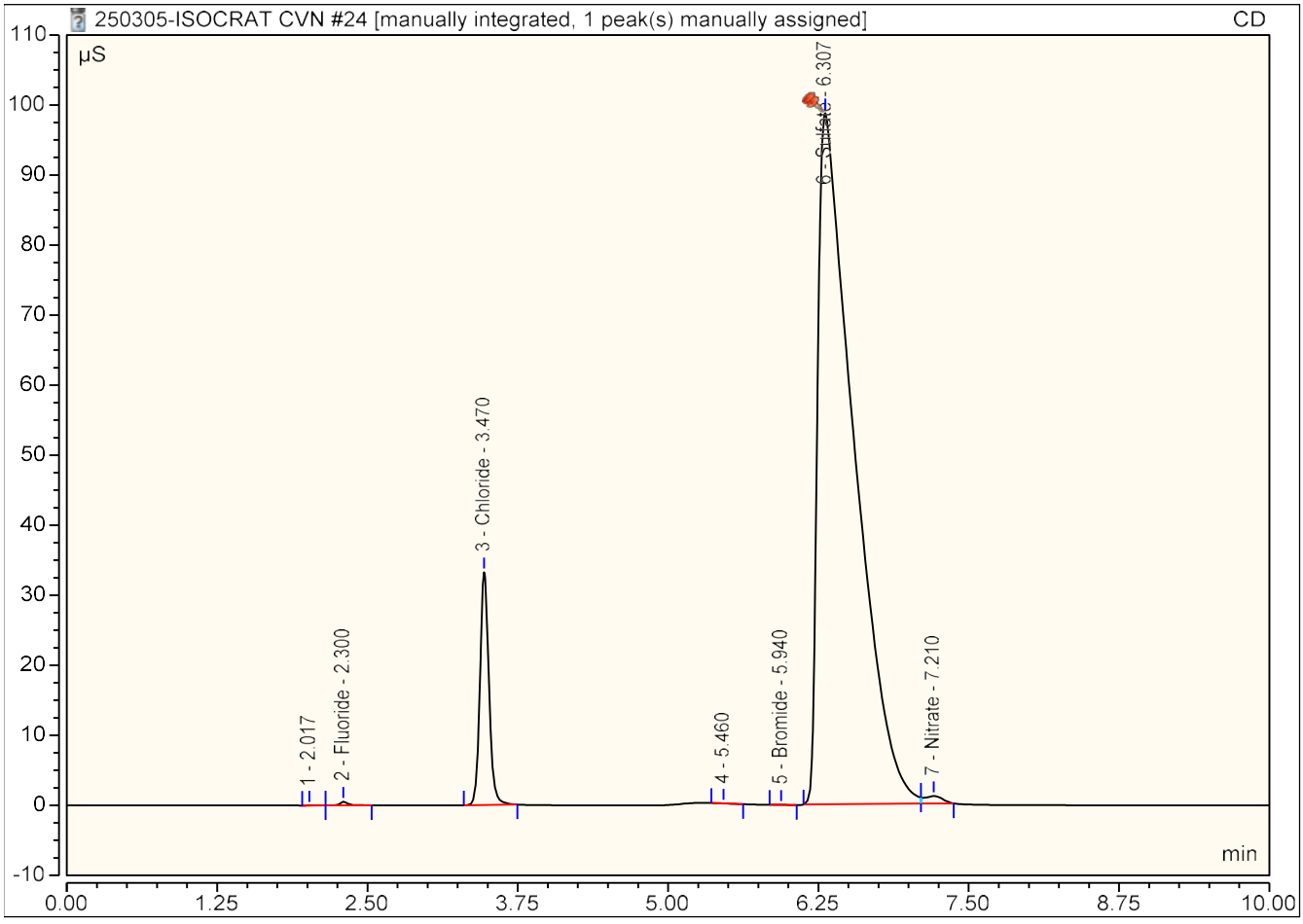
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.029	0.378	0.0832
3	3.47	**Chloride**	BMB	1.608	18.875	4.5670
5	6.50	**Sulfate**	BM *	13.065	51.574	48.5047
6	7.25	**Nitrate**	MB*	0.010	0.087	0.0365
TOTAL:				14.71	70.91	53.19



Peak Integration Report

Sample Name:	**L2511799-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 15:05**	*Run Time:*	**10.00**

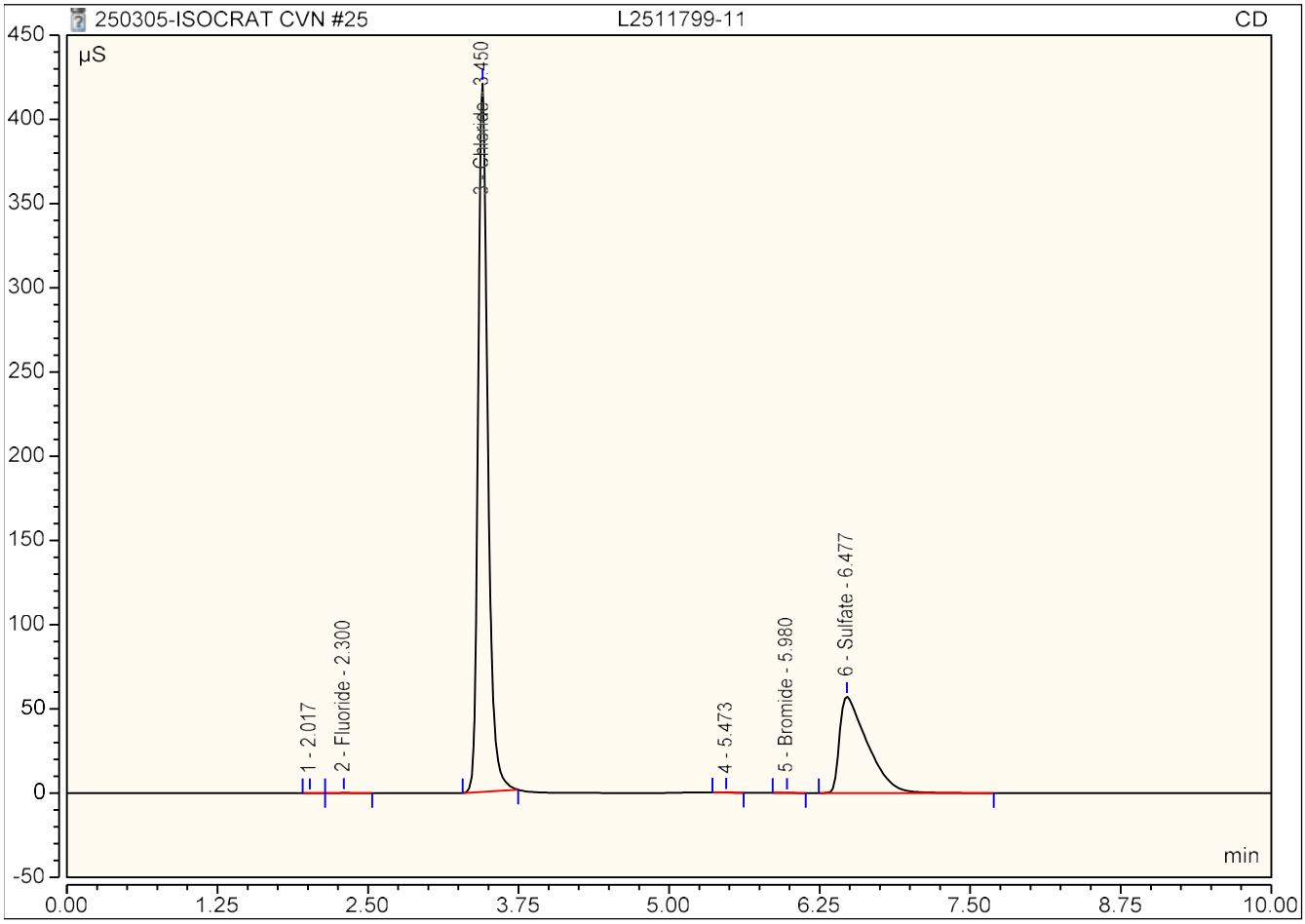
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.039	0.522	0.1022
3	3.47	**Chloride**	BMB	2.866	33.251	8.0246
5	5.94	**Bromide**	BMB	0.002	0.017	0.0390
6	6.31	**Sulfate**	BM *^	34.339	98.652	126.9962
7	7.21	**Nitrate**	MB*	0.187	1.064	0.2359
TOTAL:				37.43	133.51	135.40



Peak Integration Report

Sample Name:	**L2511799-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 15:17**	*Run Time:*	**10.00**

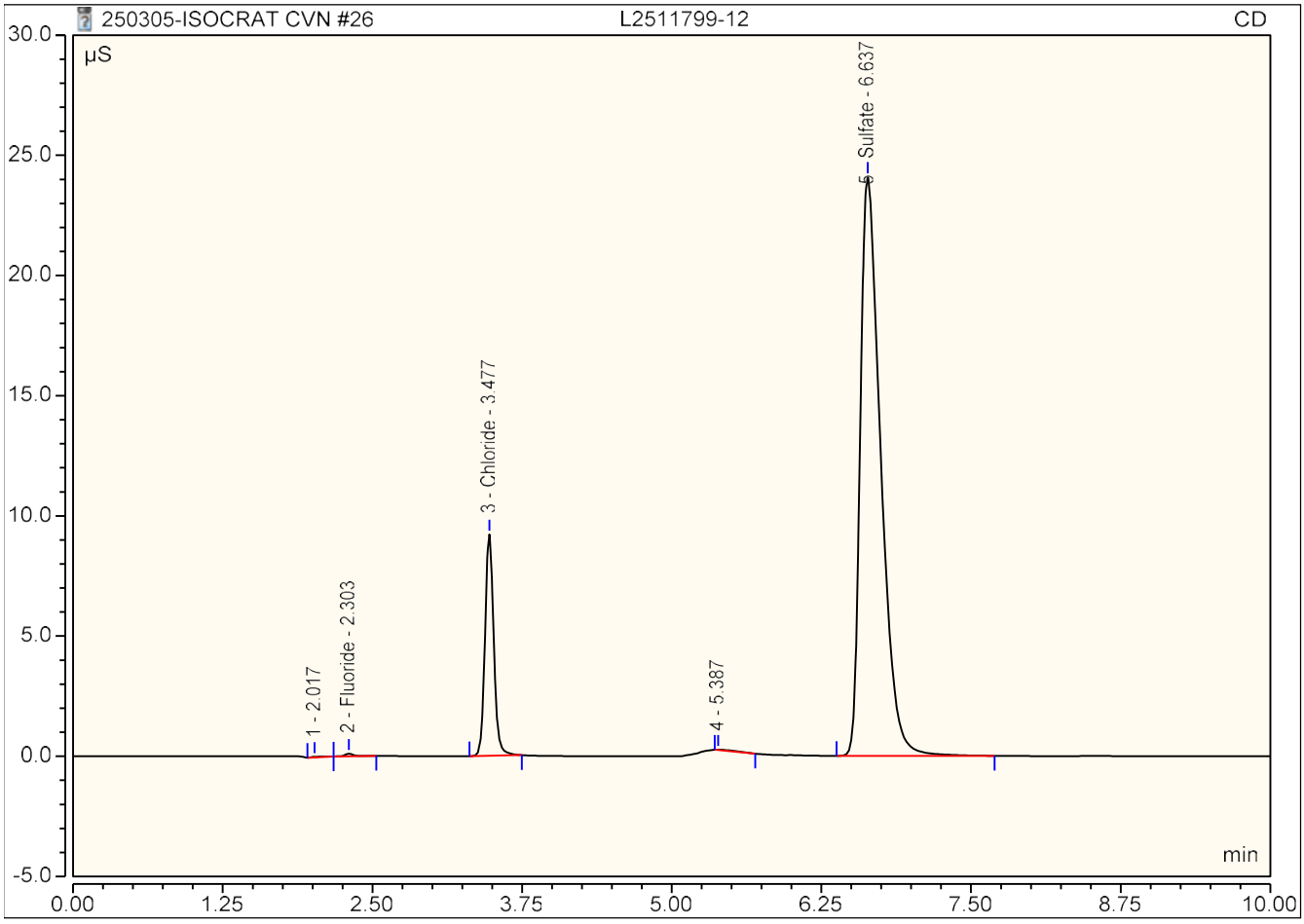
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.016	0.192	0.0591
3	3.45	**Chloride**	BMB	39.257	420.492	108.0732
5	5.98	**Bromide**	BMB	0.004	0.037	0.0590
6	6.48	**Sulfate**	BMB	15.259	57.218	56.5978
TOTAL:				54.54	477.94	164.79



Peak Integration Report

Sample Name:	**L2511799-12**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 15:29**	*Run Time:*	**10.00**

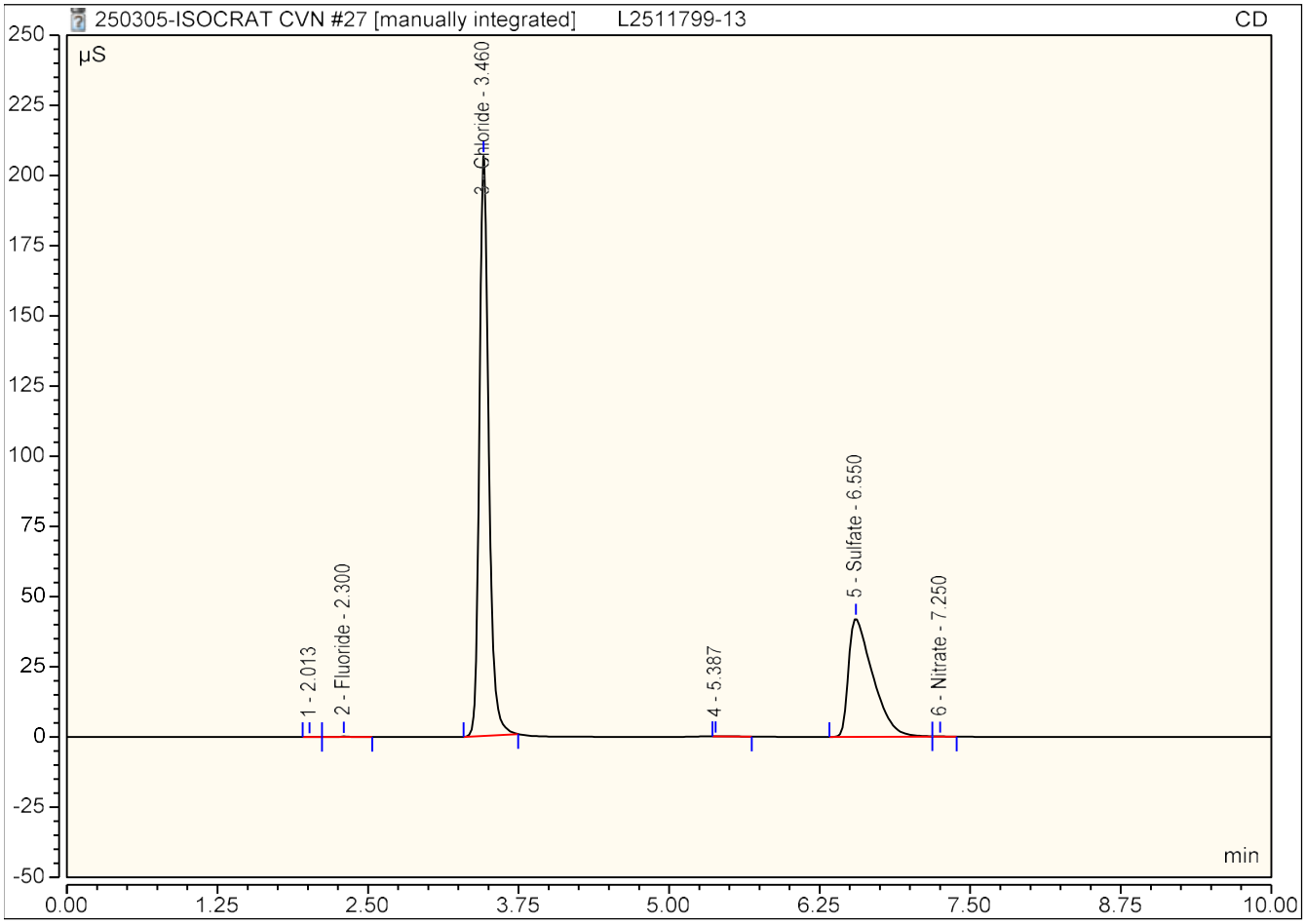
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.111	0.0480
3	3.48	**Chloride**	BMB	0.774	9.214	2.2740
5	6.64	**Sulfate**	BMB	4.754	24.090	17.8403
TOTAL:				5.54	33.42	20.16



Peak Integration Report

Sample Name:	**L2511799-13**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 15:41**	*Run Time:*	**10.00**

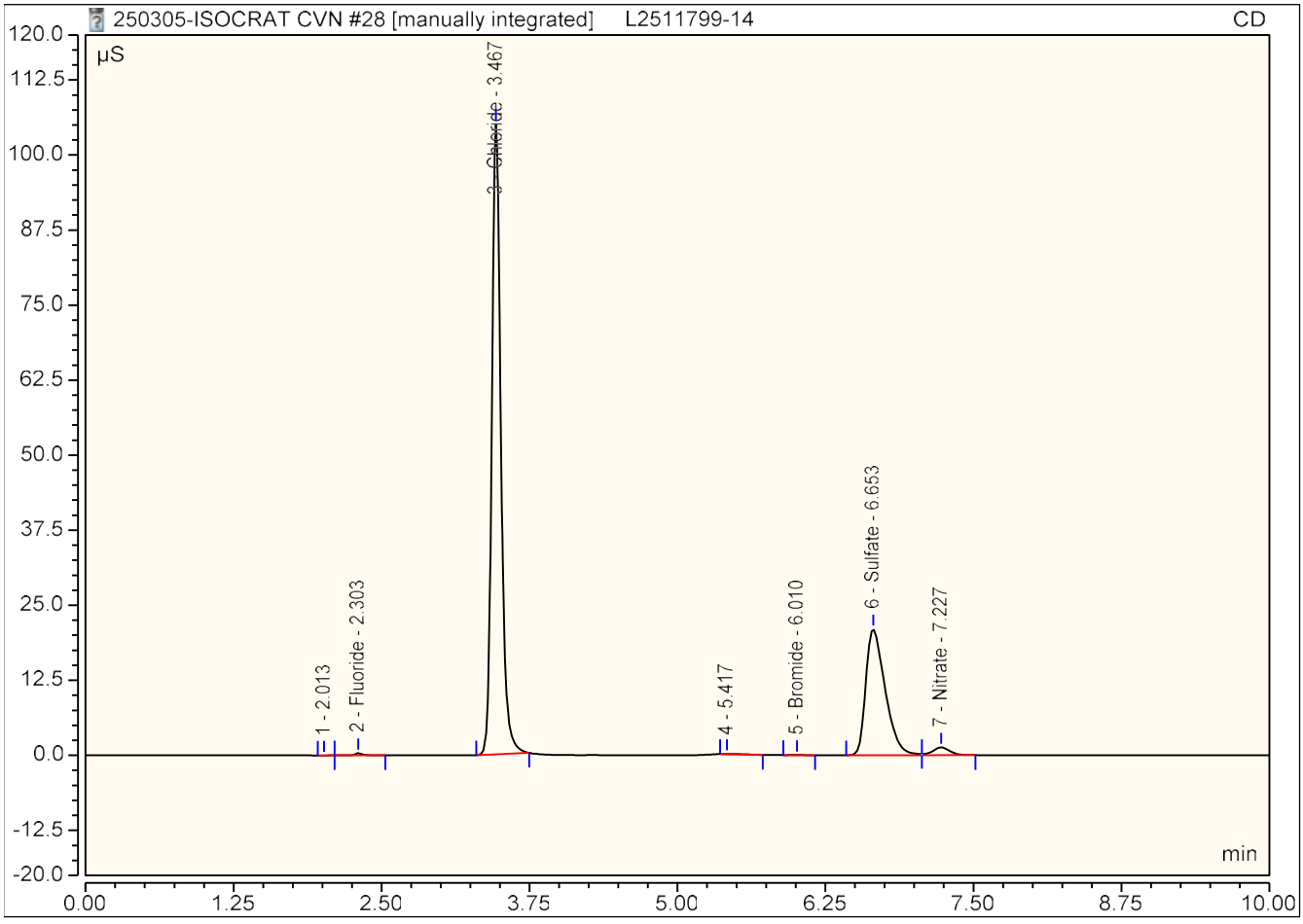
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.013	0.163	0.0552
3	3.46	**Chloride**	BMB	18.686	206.586	51.5181
5	6.55	**Sulfate**	BM *	9.839	42.182	36.6009
6	7.25	**Nitrate**	MB*	0.017	0.126	0.0450
TOTAL:				28.56	249.06	88.22



Peak Integration Report

Sample Name:	**L2511799-14**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 15:53**	*Run Time:*	**10.00**

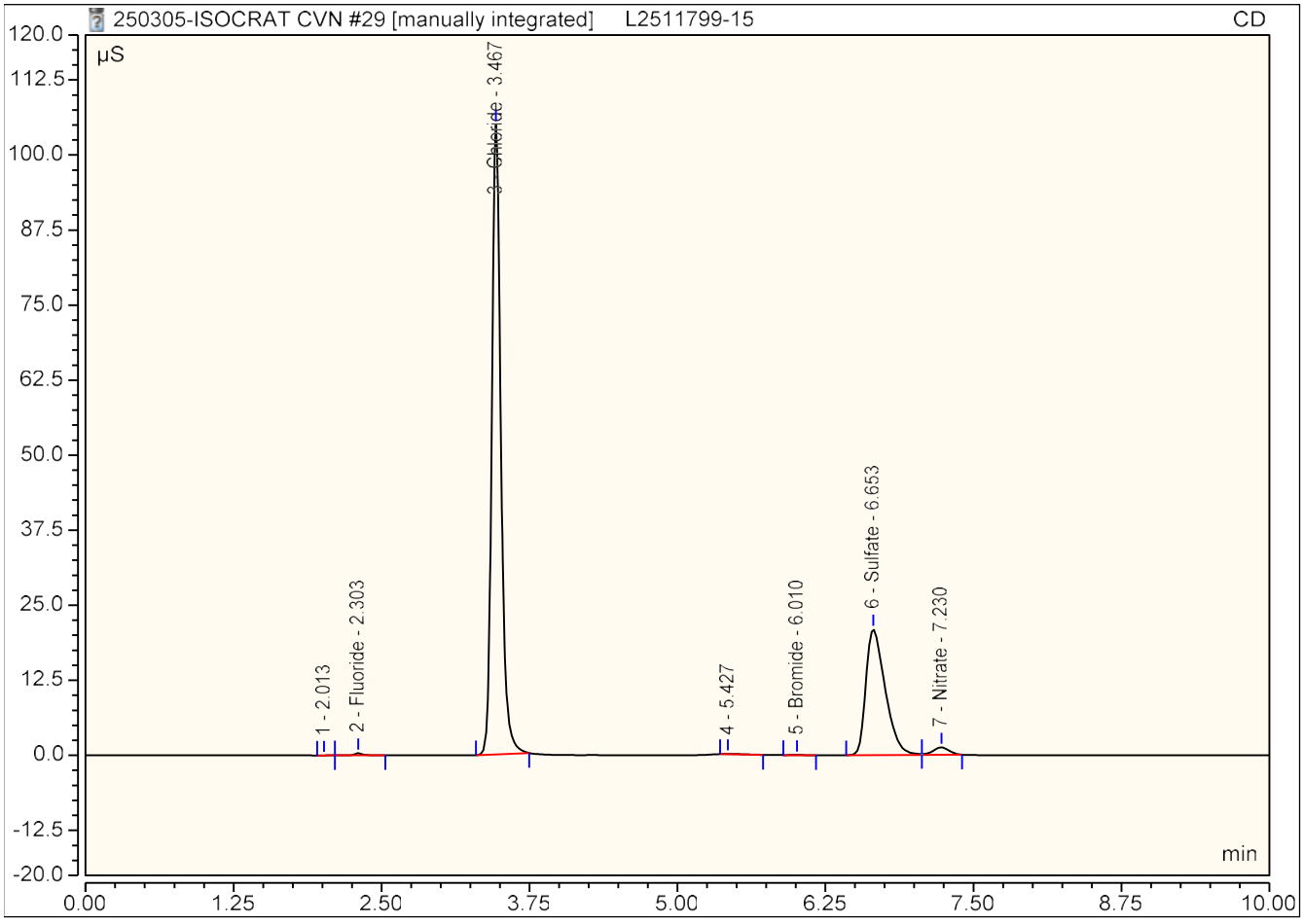
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.028	0.357	0.0810
3	3.47	**Chloride**	BMB	9.306	104.921	25.7293
5	6.01	**Bromide**	BMB	0.002	0.017	0.0400
6	6.65	**Sulfate**	BM *	3.981	21.003	14.9871
7	7.23	**Nitrate**	MB*	0.214	1.289	0.2666
TOTAL:				13.53	127.59	41.10



Peak Integration Report

Sample Name:	**L2511799-15**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 16:06**	*Run Time:*	**10.00**

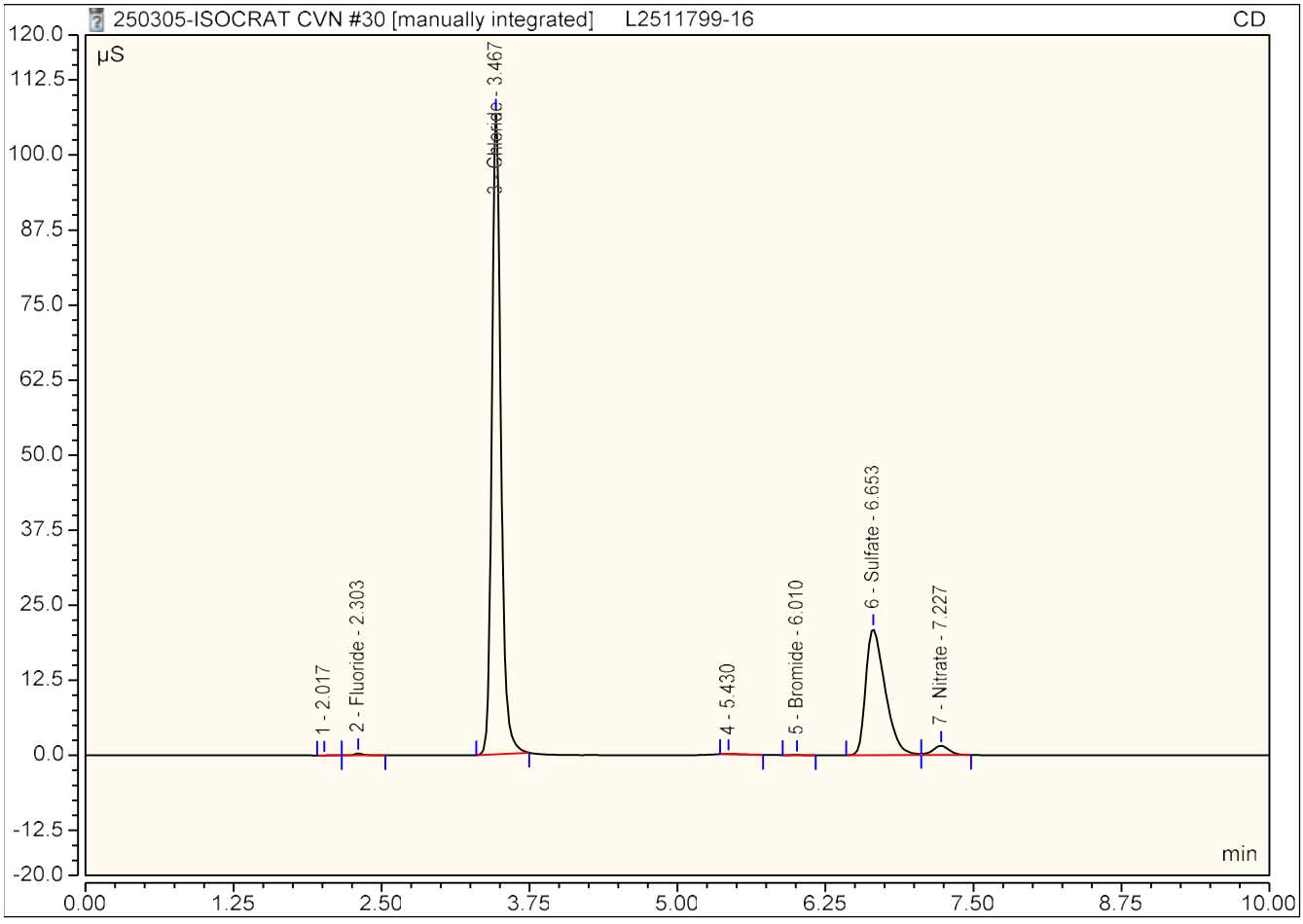
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.028	0.357	0.0809
3	3.47	**Chloride**	BMB	9.307	104.847	25.7332
5	6.01	**Bromide**	BMB	0.002	0.018	0.0403
6	6.65	**Sulfate**	BM *	3.963	20.955	14.9236
7	7.23	**Nitrate**	MB*	0.189	1.223	0.2388
TOTAL:				13.49	127.40	41.02



Peak Integration Report

Sample Name:	**L2511799-16**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 16:18**	*Run Time:*	**10.00**

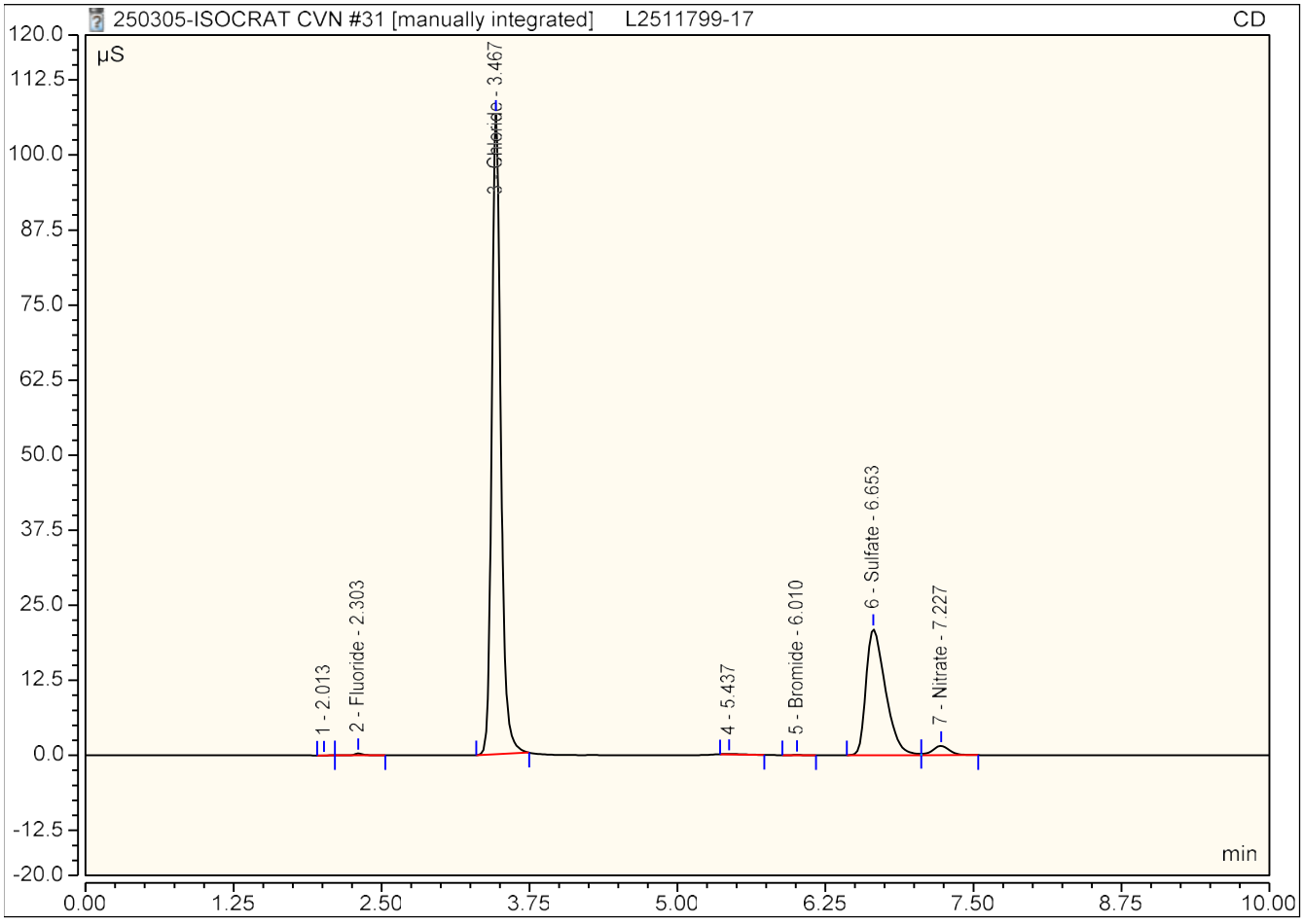
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.026	0.346	0.0786
3	3.47	**Chloride**	BMB	9.462	106.726	26.1588
5	6.01	**Bromide**	BMB	0.002	0.018	0.0407
6	6.65	**Sulfate**	BM *	3.995	21.027	15.0384
7	7.23	**Nitrate**	MB*	0.253	1.546	0.3100
TOTAL:				13.74	129.66	41.63



Peak Integration Report

Sample Name:	**L2511799-17**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 16:30**	*Run Time:*	**10.00**

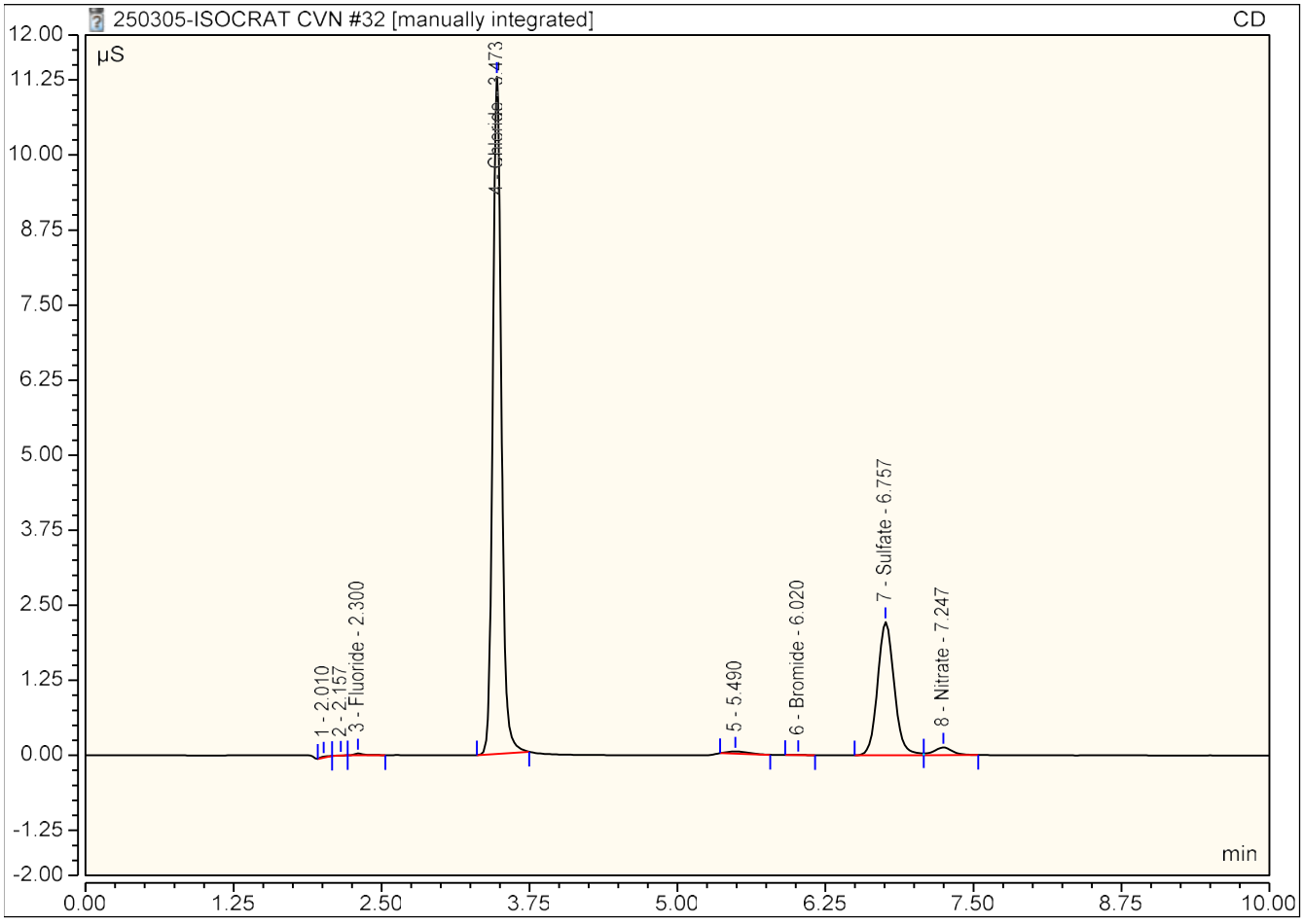
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.027	0.348	0.0796
3	3.47	**Chloride**	BMB	9.451	106.537	26.1283
5	6.01	**Bromide**	BMB	0.002	0.018	0.0406
6	6.65	**Sulfate**	BM *	3.994	21.014	15.0374
7	7.23	**Nitrate**	MB*	0.258	1.550	0.3160
TOTAL:				13.73	129.47	41.60



Peak Integration Report

Sample Name:	**XL2511799-17; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 16:42**	*Run Time:*	**10.00**

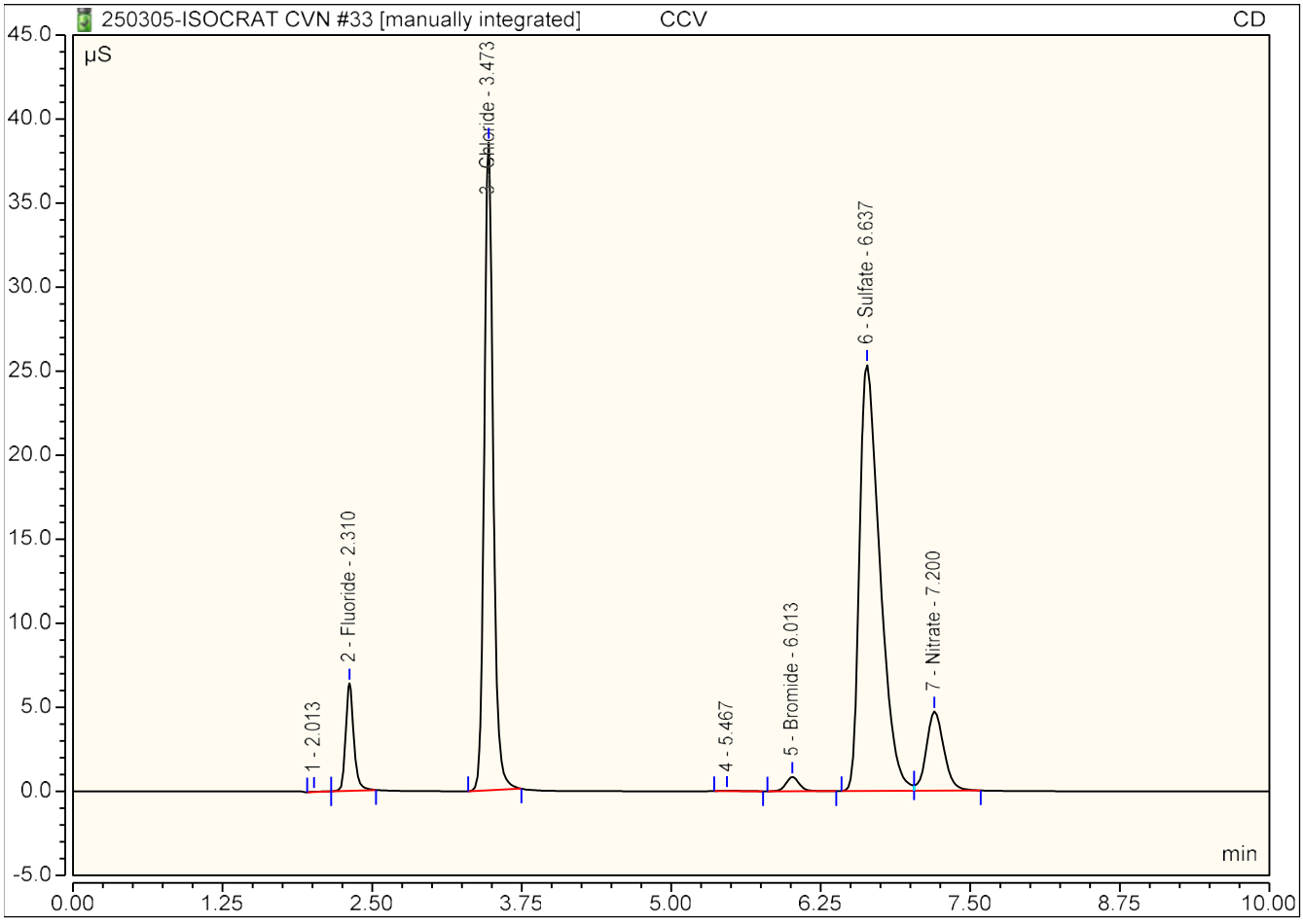
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.003	0.032	0.3602
4	3.47	**Chloride**	BMB	0.958	11.280	27.7920
6	6.02	**Bromide**	BMB	0.000	0.002	0.2519
7	6.76	**Sulfate**	BM *	0.361	2.217	16.3312
8	7.25	**Nitrate**	MB*	0.023	0.127	0.5102
TOTAL:				1.34	13.66	45.25



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 16:54**	*Run Time:*	**10.00**

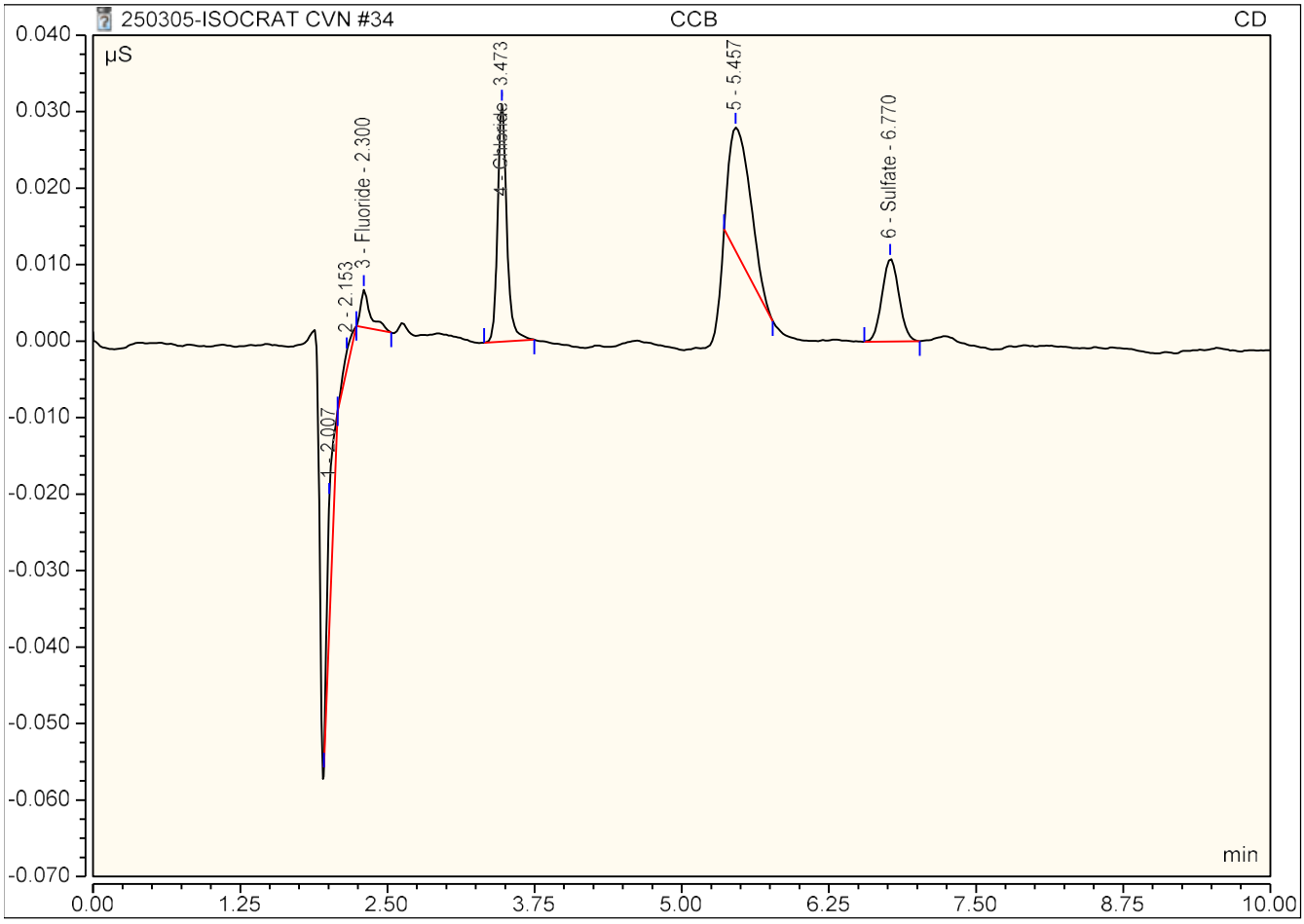
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.493	6.388	0.9217
3	3.47	**Chloride**	BMB	3.355	38.545	9.3687
5	6.01	**Bromide**	BMB	0.111	0.856	0.9092
6	6.64	**Sulfate**	BM *	5.005	25.367	18.7651
7	7.20	**Nitrate**	MB*	0.796	4.711	0.9223
TOTAL:				9.76	75.87	30.89



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 17:06**	*Run Time:*	**10.00**

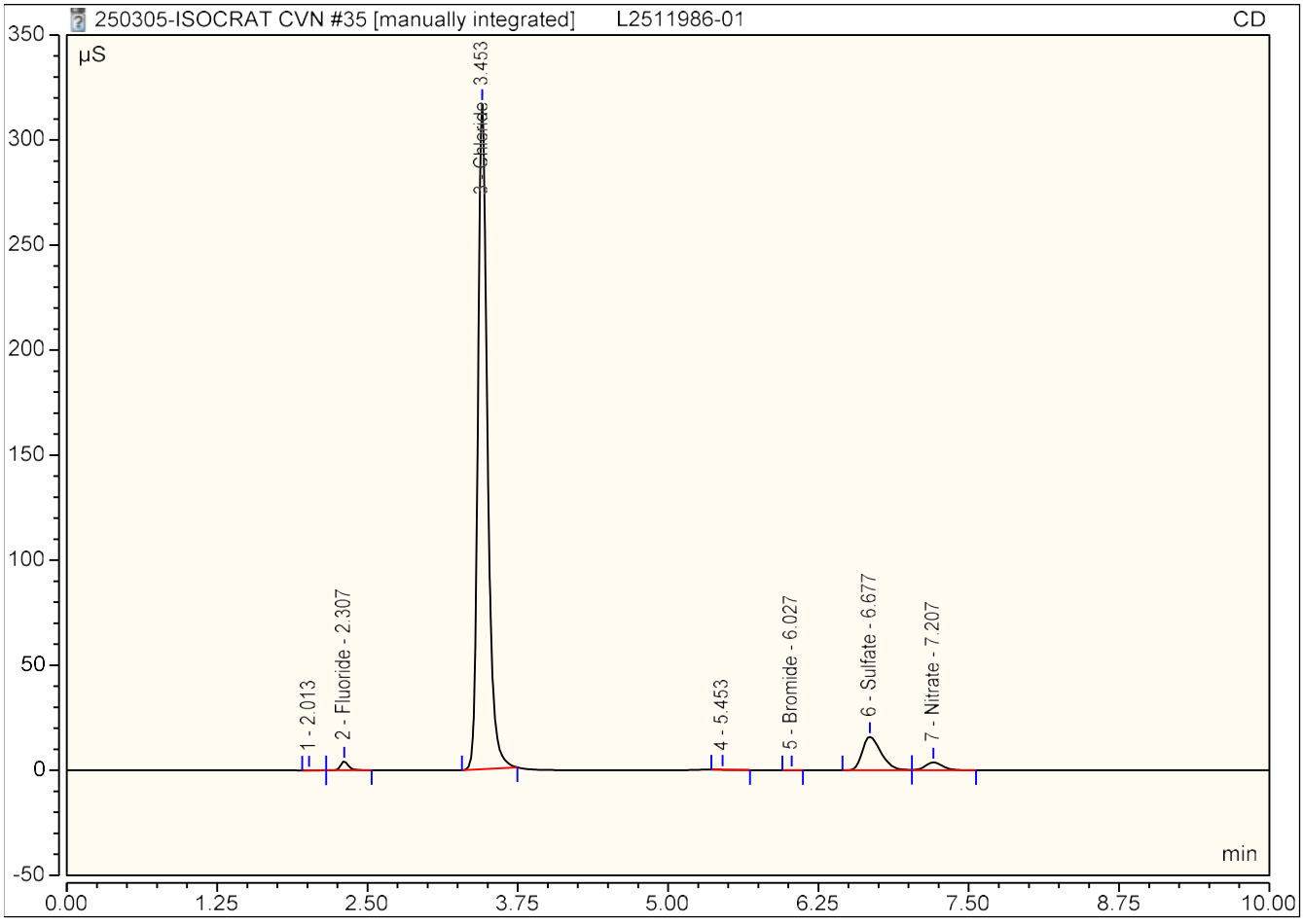
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.000	0.005	0.0318
4	3.47	**Chloride**	BMB	0.003	0.031	0.1536
6	6.77	**Sulfate**	BMB	0.002	0.011	0.3073
TOTAL:				0.01	0.05	0.49



Peak Integration Report

Sample Name:	**L2511986-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 17:18**	*Run Time:*	**10.00**

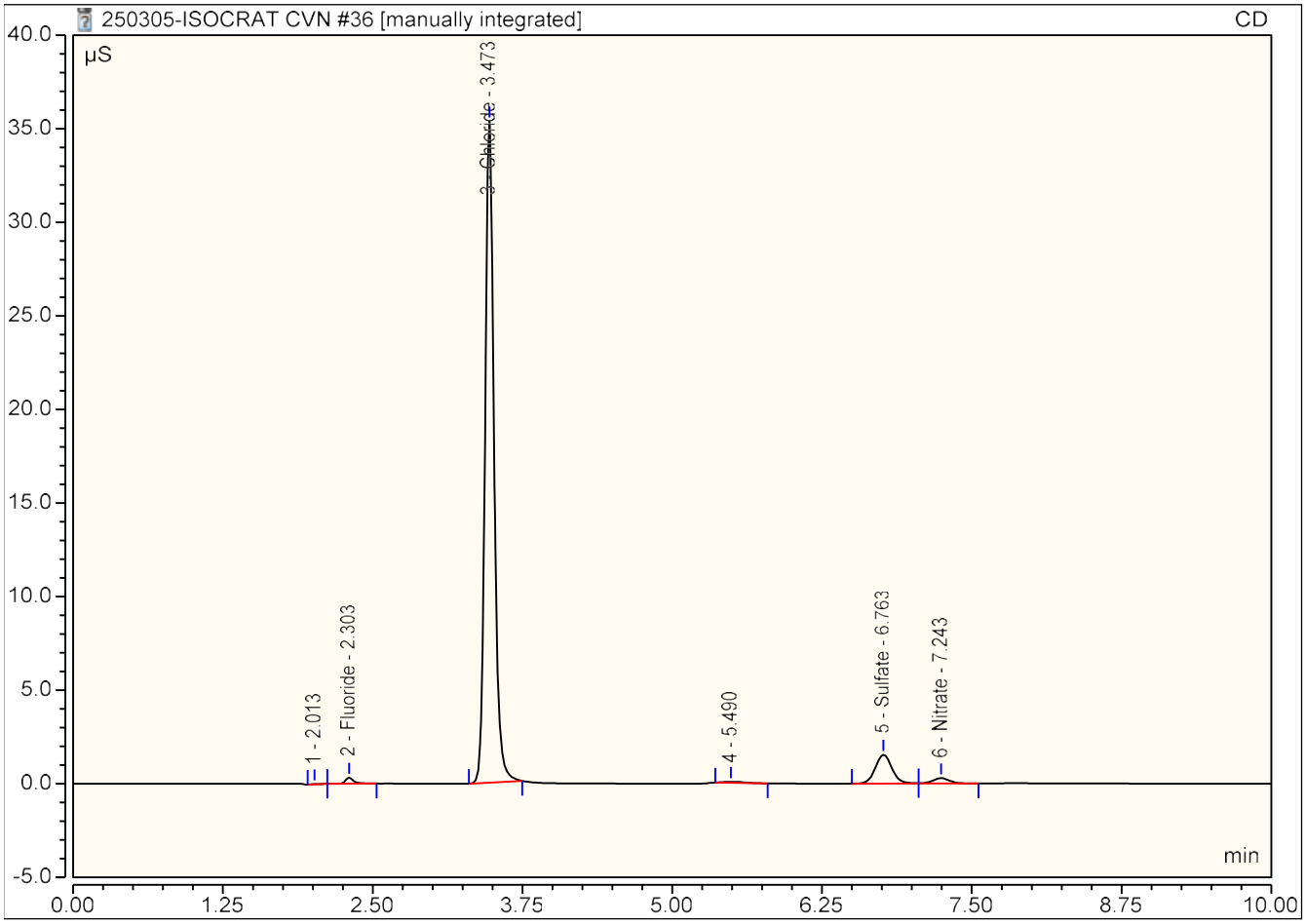
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.323	4.253	0.6147
3	3.45	**Chloride**	BMB	29.239	316.758	80.5300
5	6.03	**Bromide**	BMB	0.000	0.001	0.0246
6	6.68	**Sulfate**	BM *	2.890	15.942	10.9645
7	7.21	**Nitrate**	MB*	0.625	3.789	0.7292
TOTAL:				33.08	340.74	92.86



Peak Integration Report

Sample Name:	**L2511986-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 17:30**	*Run Time:*	**10.00**

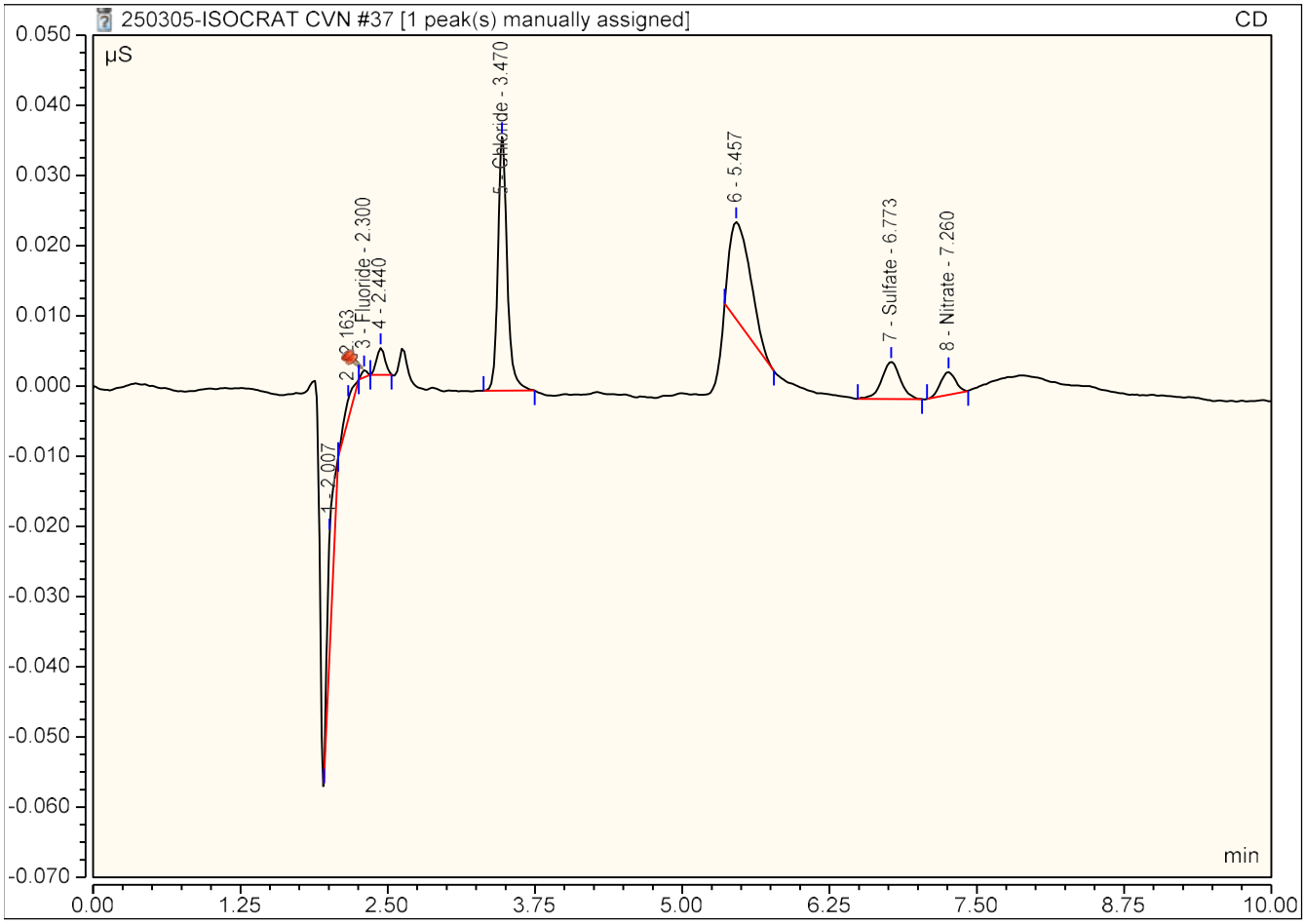
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.027	0.339	0.7902
3	3.47	**Chloride**	BMB	3.062	35.336	85.6326
5	6.76	**Sulfate**	BM *	0.250	1.552	12.2394
6	7.24	**Nitrate**	MB*	0.048	0.291	0.7903
TOTAL:				3.39	37.52	99.45



Peak Integration Report

Sample Name:	**L2511986-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 17:42**	*Run Time:*	**10.00**

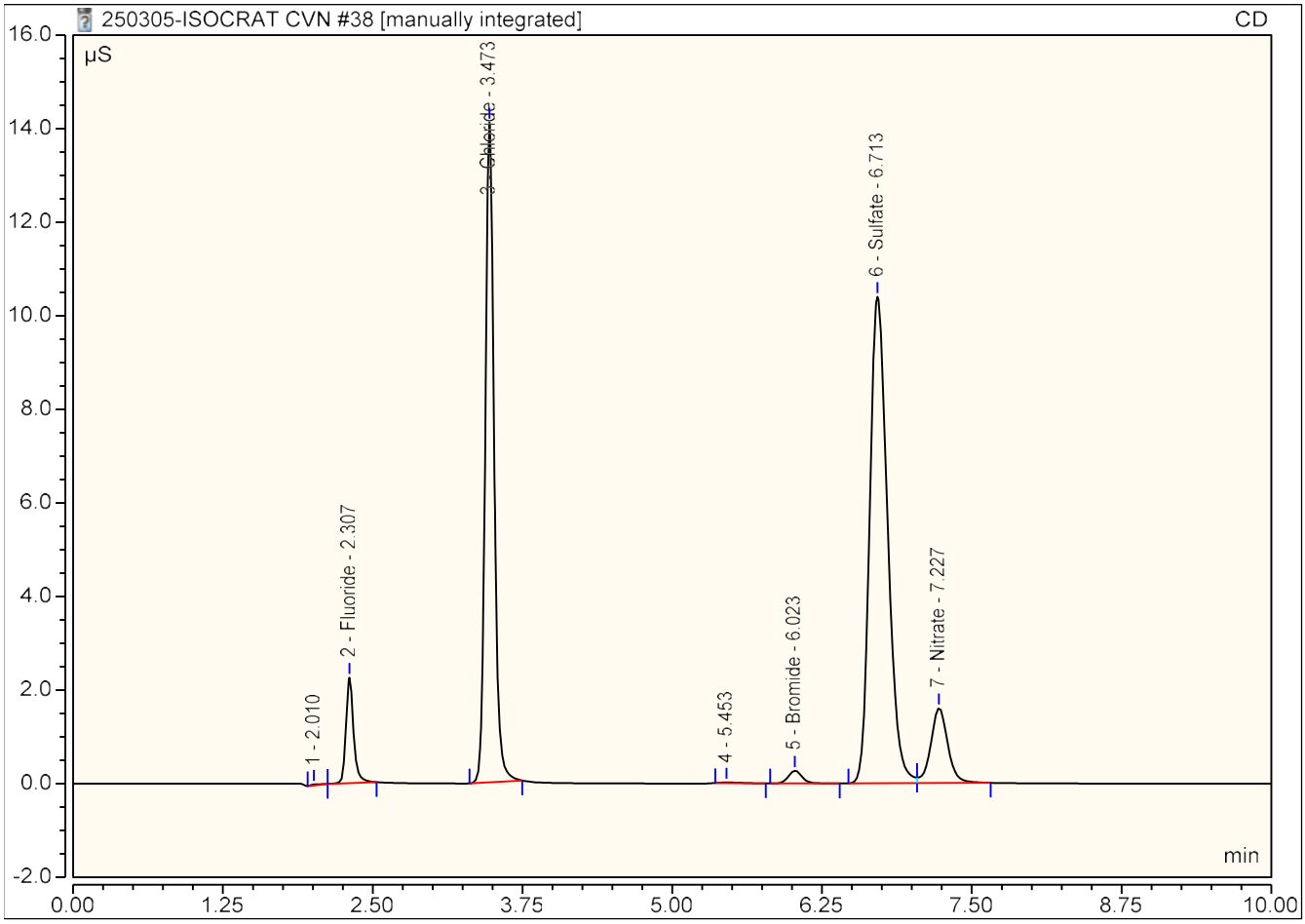
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.001	0.0311
5	3.47	**Chloride**	BMB	0.003	0.036	0.1550
7	6.77	**Sulfate**	BMB	0.001	0.005	0.3042
8	7.26	**Nitrate**	BMB	0.000	0.003	0.0259
TOTAL:				0.00	0.05	0.52



Peak Integration Report

Sample Name:	**L2511986-03 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 17:54**	*Run Time:*	**10.00**

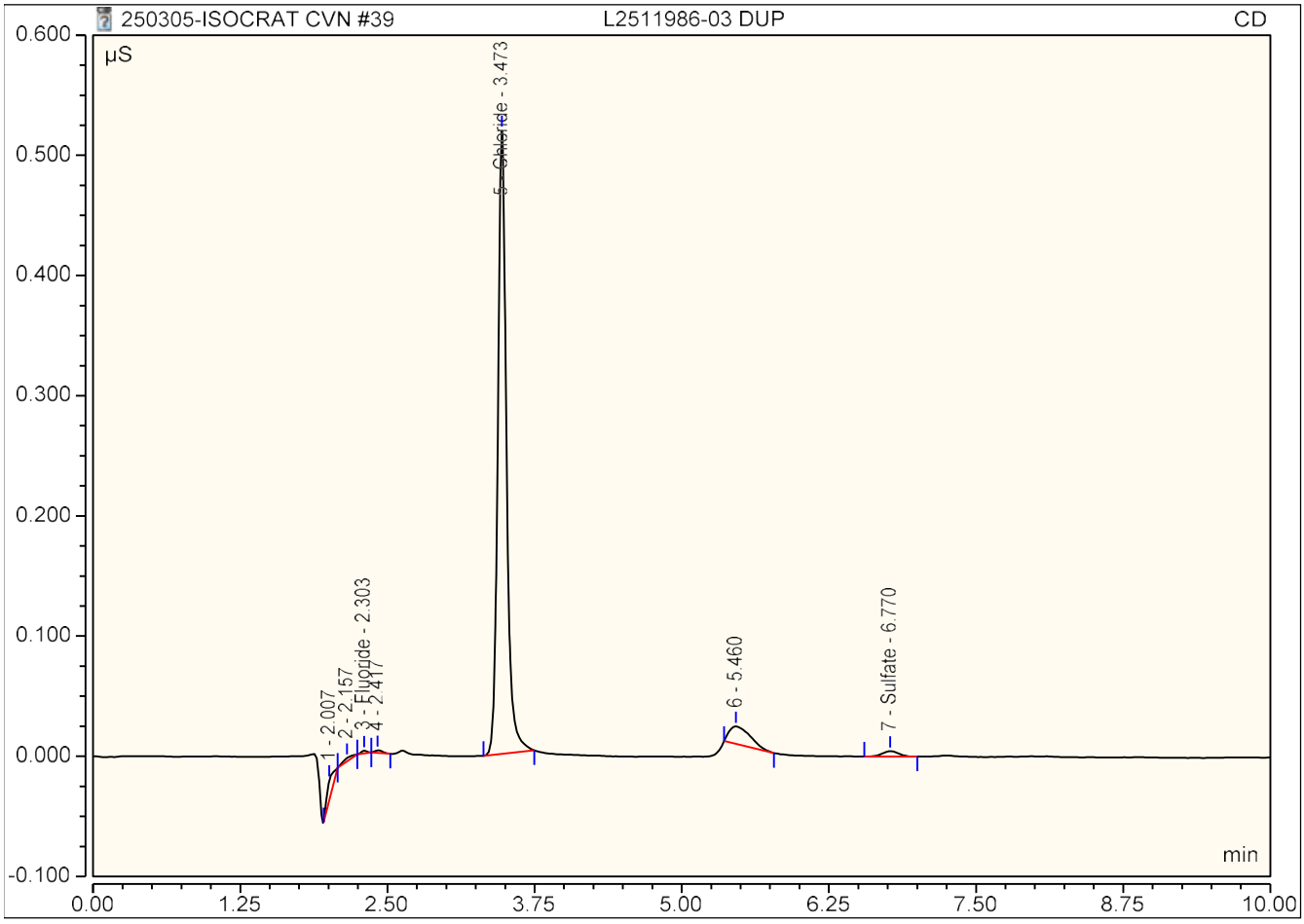
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.164	2.255	0.3278
3	3.47	**Chloride**	BMB	1.202	14.104	3.4499
5	6.02	**Bromide**	BMB	0.037	0.274	0.3183
6	6.71	**Sulfate**	BM *	1.792	10.398	6.9112
7	7.23	**Nitrate**	MB*	0.264	1.600	0.3223
TOTAL:				3.46	28.63	11.33



Peak Integration Report

Sample Name:	**L2511986-03 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 18:06**	*Run Time:*	**10.00**

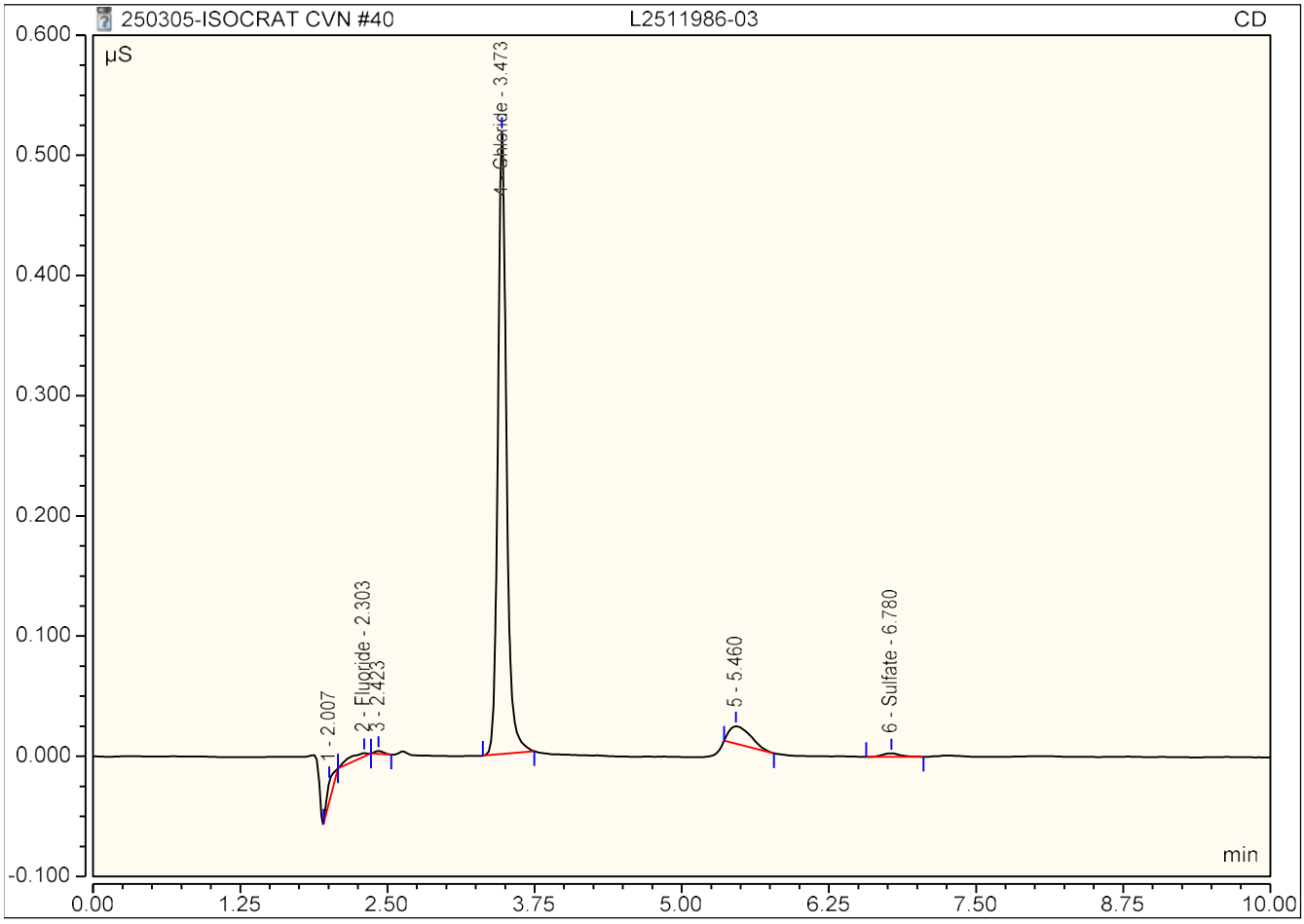
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.000	0.002	0.0312
5	3.47	**Chloride**	BMB	0.044	0.519	0.2676
7	6.77	**Sulfate**	BMB	0.001	0.005	0.3034
TOTAL:				0.05	0.53	0.60



Peak Integration Report

Sample Name:	**L2511986-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 18:18**	*Run Time:*	**10.00**

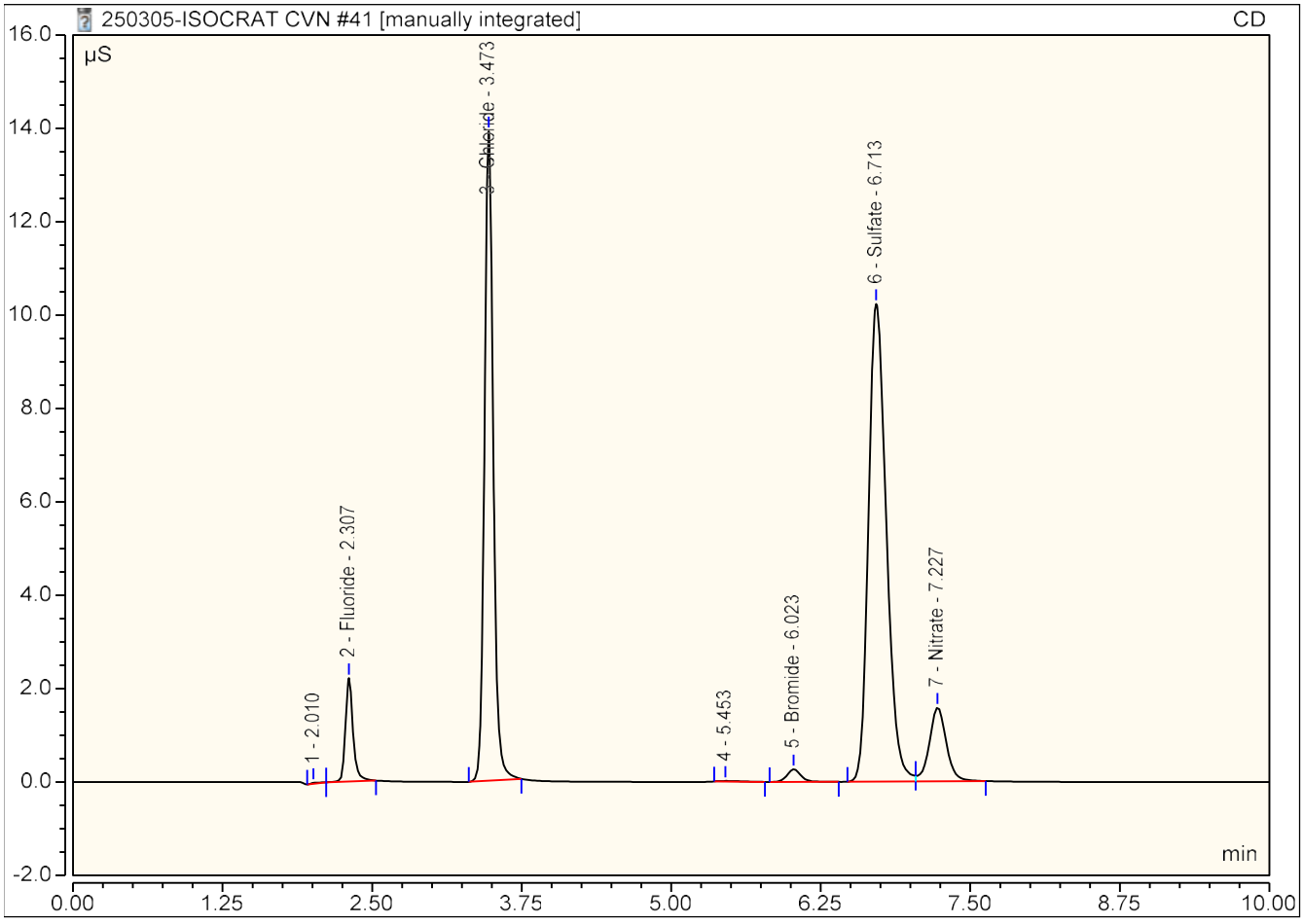
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.003	0.0325
4	3.47	**Chloride**	BMB	0.044	0.518	0.2673
6	6.78	**Sulfate**	BMB	0.001	0.003	0.3025
TOTAL:				0.05	0.52	0.60



Peak Integration Report

Sample Name:	**L2511986-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 18:30**	*Run Time:*	**10.00**

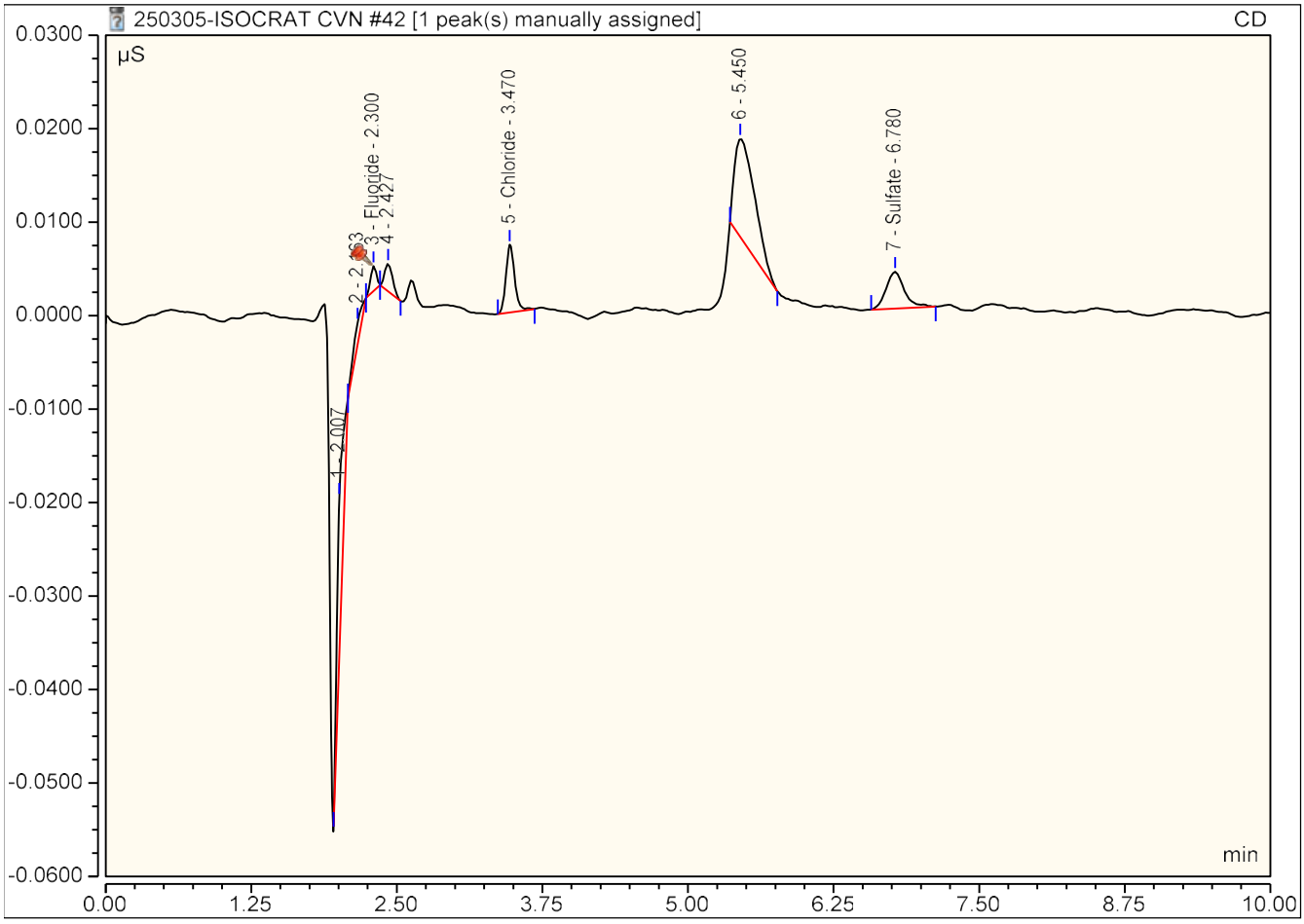
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.161	2.212	0.3216
3	3.47	**Chloride**	BMB	1.185	13.908	3.4035
5	6.02	**Bromide**	BMB	0.036	0.270	0.3148
6	6.71	**Sulfate**	BM *	1.763	10.231	6.8062
7	7.23	**Nitrate**	MB*	0.260	1.577	0.3181
TOTAL:				3.41	28.20	11.16



Peak Integration Report

Sample Name:	**L2511986-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 18:43**	*Run Time:*	**10.00**

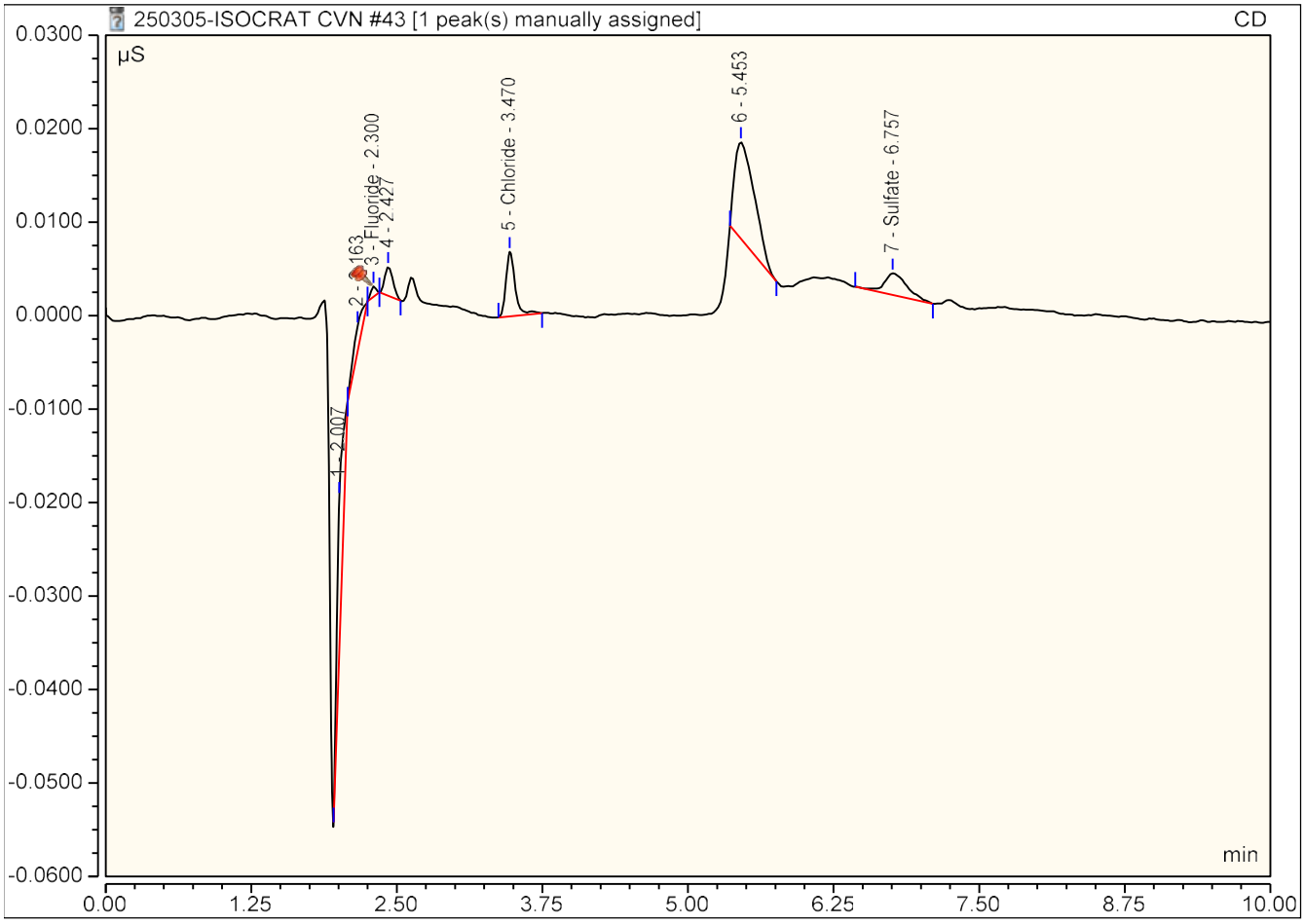
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.003	0.0312
5	3.47	**Chloride**	BMB	0.001	0.007	0.1477
7	6.78	**Sulfate**	BMB	0.001	0.004	0.3033
TOTAL:				0.00	0.01	0.48



Peak Integration Report

Sample Name:	**L2511986-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 18:55**	*Run Time:*	**10.00**

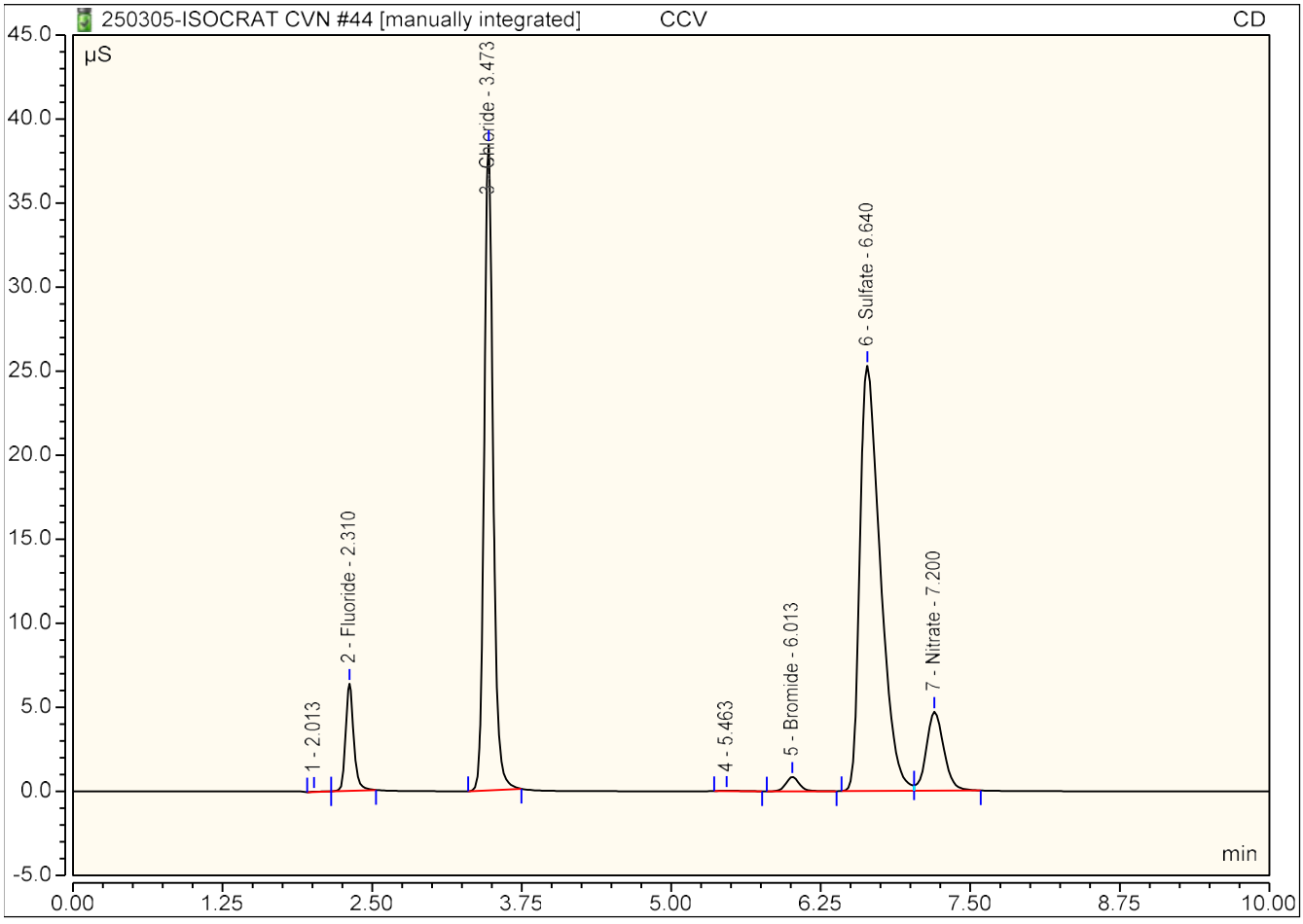
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.001	0.0311
5	3.47	**Chloride**	BMB	0.001	0.007	0.1477
7	6.76	**Sulfate**	BMB	0.001	0.002	0.3026
TOTAL:				0.00	0.01	0.48



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 19:07**	*Run Time:*	**10.00**

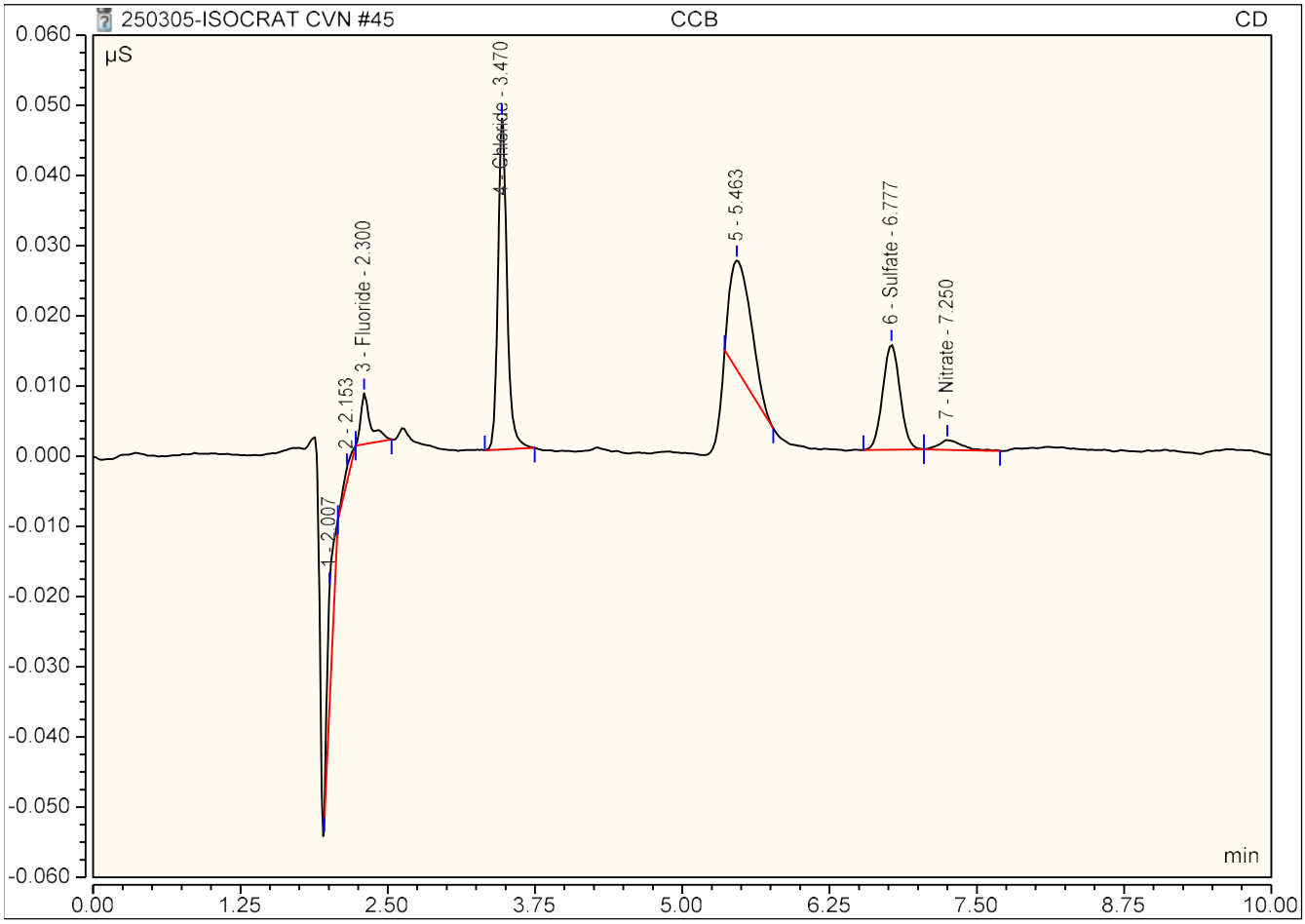
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.492	6.374	0.9192
3	3.47	**Chloride**	BMB	3.341	38.399	9.3321
5	6.01	**Bromide**	BMB	0.111	0.858	0.9108
6	6.64	**Sulfate**	BM *	4.991	25.287	18.7134
7	7.20	**Nitrate**	MB*	0.793	4.692	0.9186
TOTAL:				9.73	75.61	30.79



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 19:19**	*Run Time:*	**10.00**

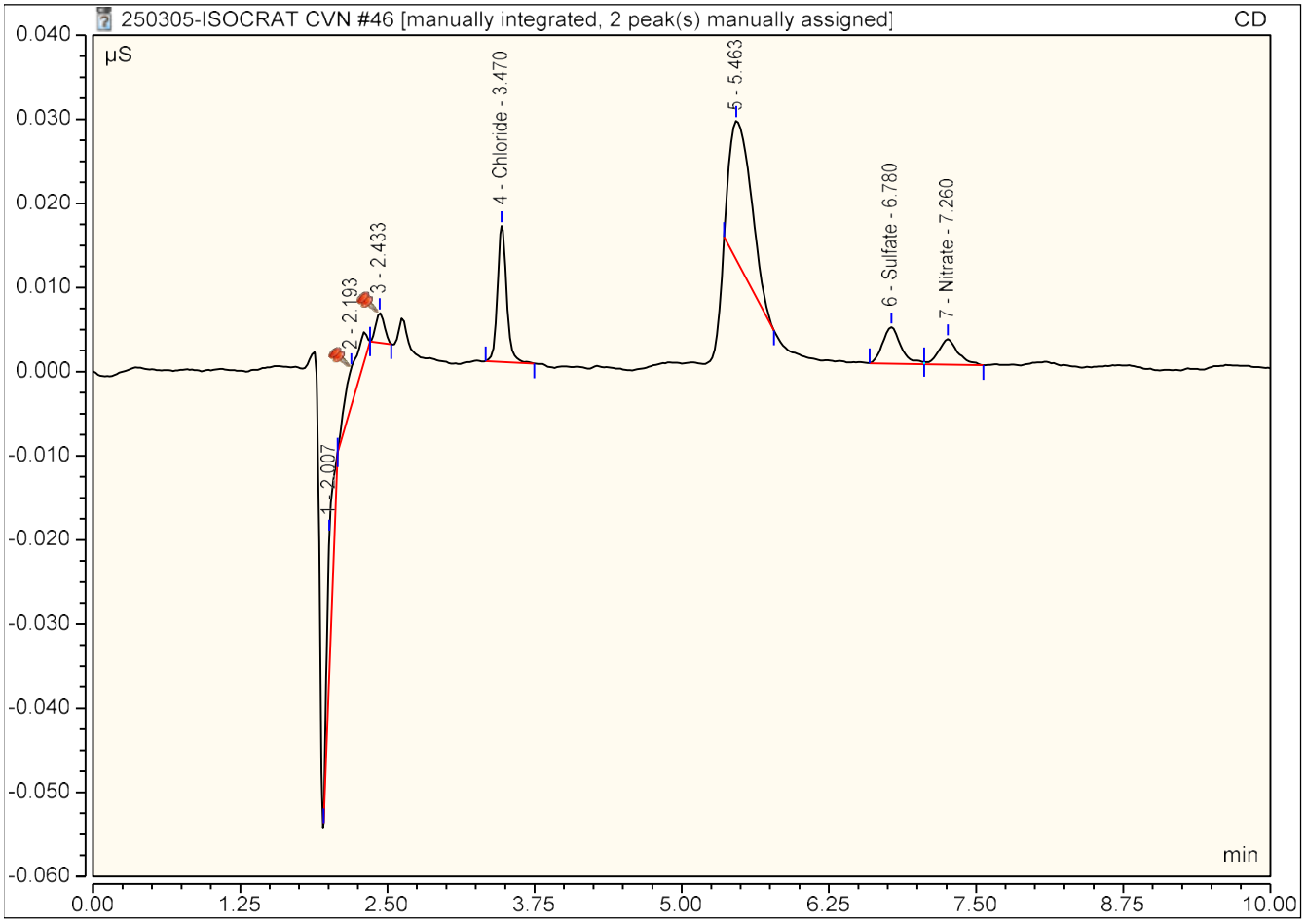
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.001	0.007	0.0322
4	3.47	**Chloride**	BMB	0.004	0.047	0.1575
6	6.78	**Sulfate**	BMB	0.003	0.015	0.3100
7	7.25	**Nitrate**	BMB	0.000	0.001	0.0257
TOTAL:				0.01	0.07	0.53



Peak Integration Report

Sample Name:	**L2511578-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 19:31**	*Run Time:*	**10.00**

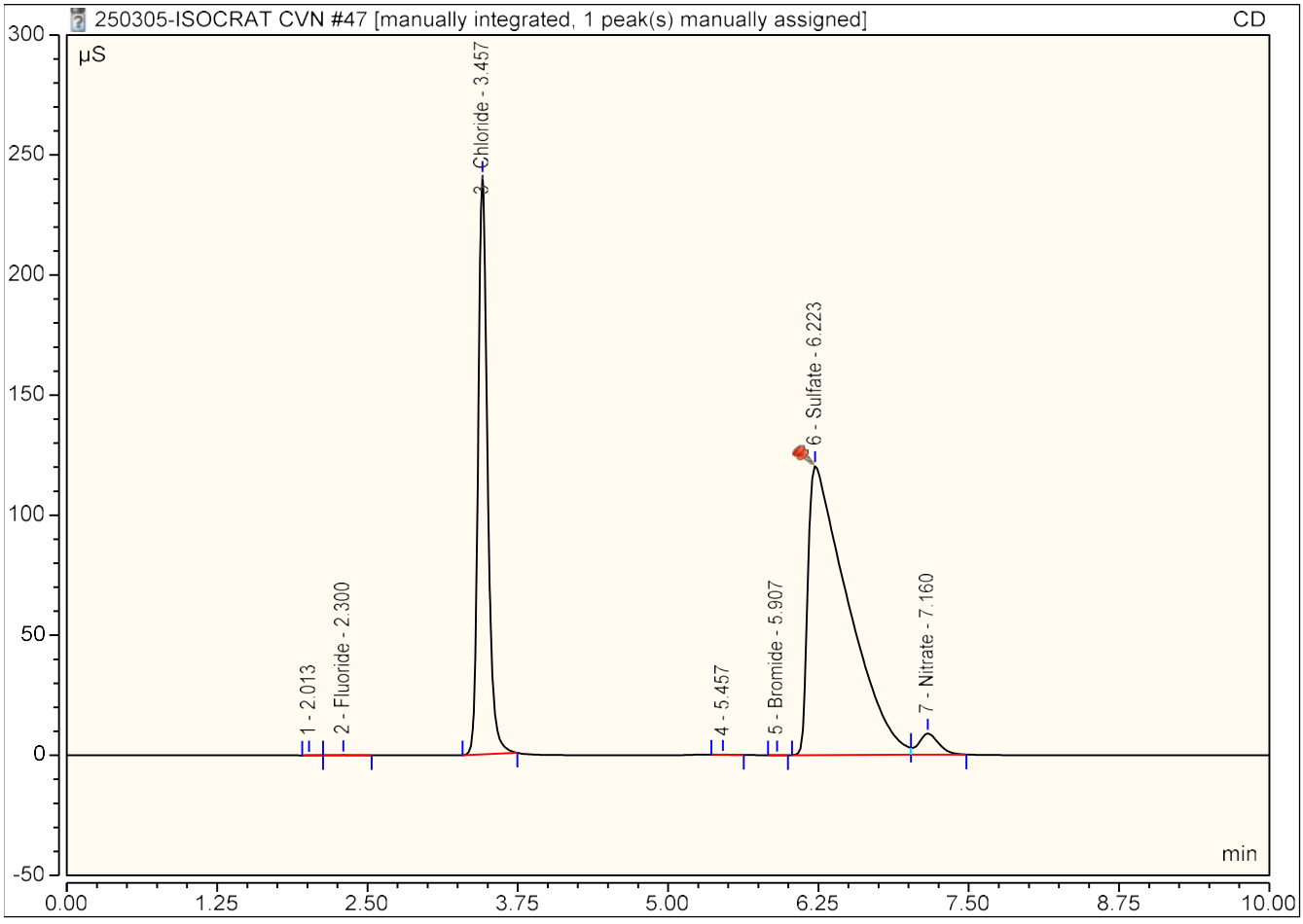
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
4	3.47	**Chloride**	BMB	0.001	0.016	0.1499
6	6.78	**Sulfate**	BM *	0.001	0.004	0.3035
7	7.26	**Nitrate**	MB*	0.001	0.003	0.0260
TOTAL:				0.00	0.02	0.48



Peak Integration Report

Sample Name:	**XL2511435-01 CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 19:43**	*Run Time:*	**10.00**

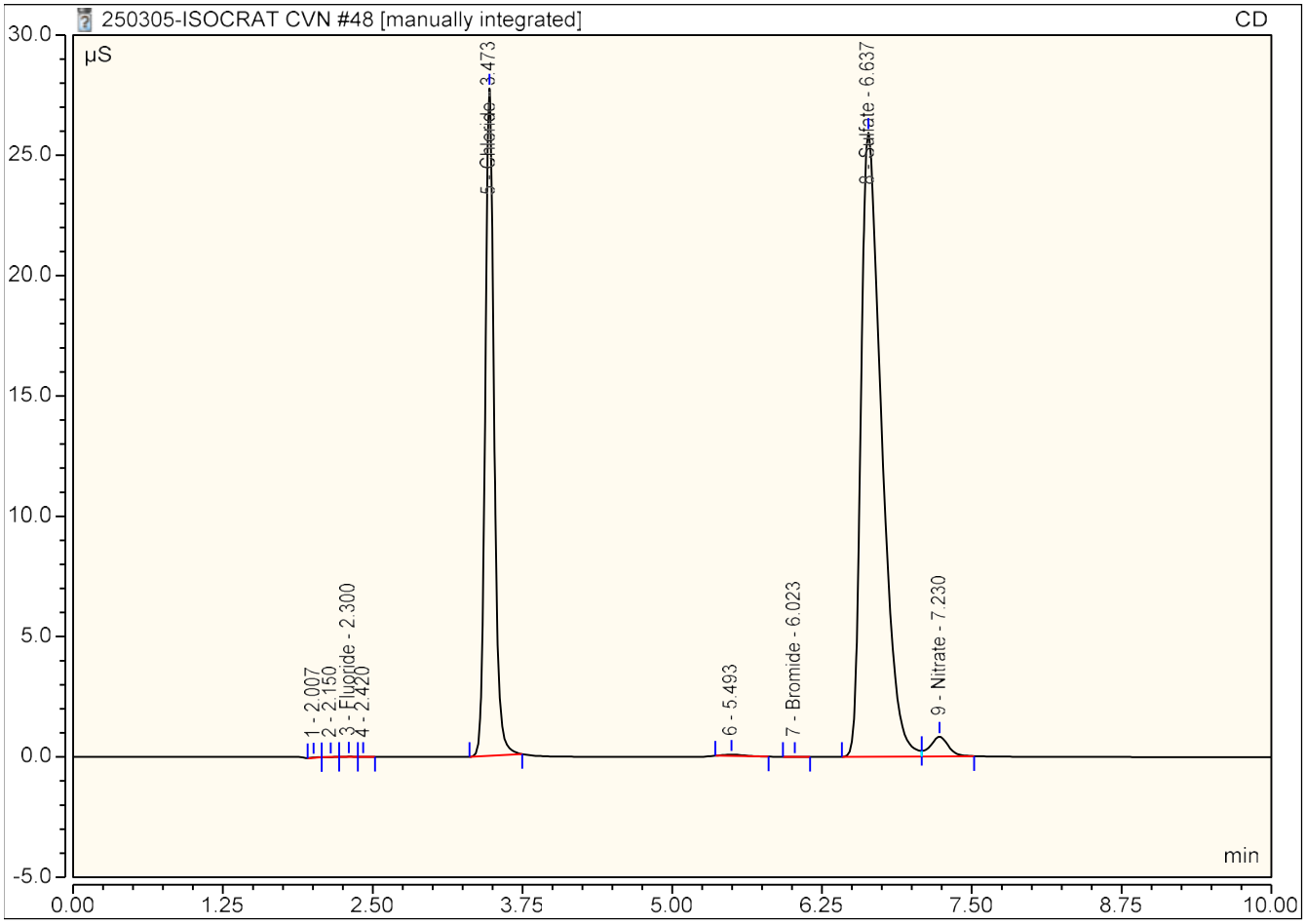
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.010	0.111	0.0484
3	3.46	**Chloride**	BMB	21.892	241.030	60.3332
5	5.91	**Bromide**	BMB	0.001	0.009	0.0304
6	6.22	**Sulfate**	BM *^	46.457	120.480	171.7036
7	7.16	**Nitrate**	MB*	1.699	8.824	1.9393
TOTAL:				70.06	370.45	234.05



Peak Integration Report

Sample Name:	**L2511435-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 19:55**	*Run Time:*	**10.00**

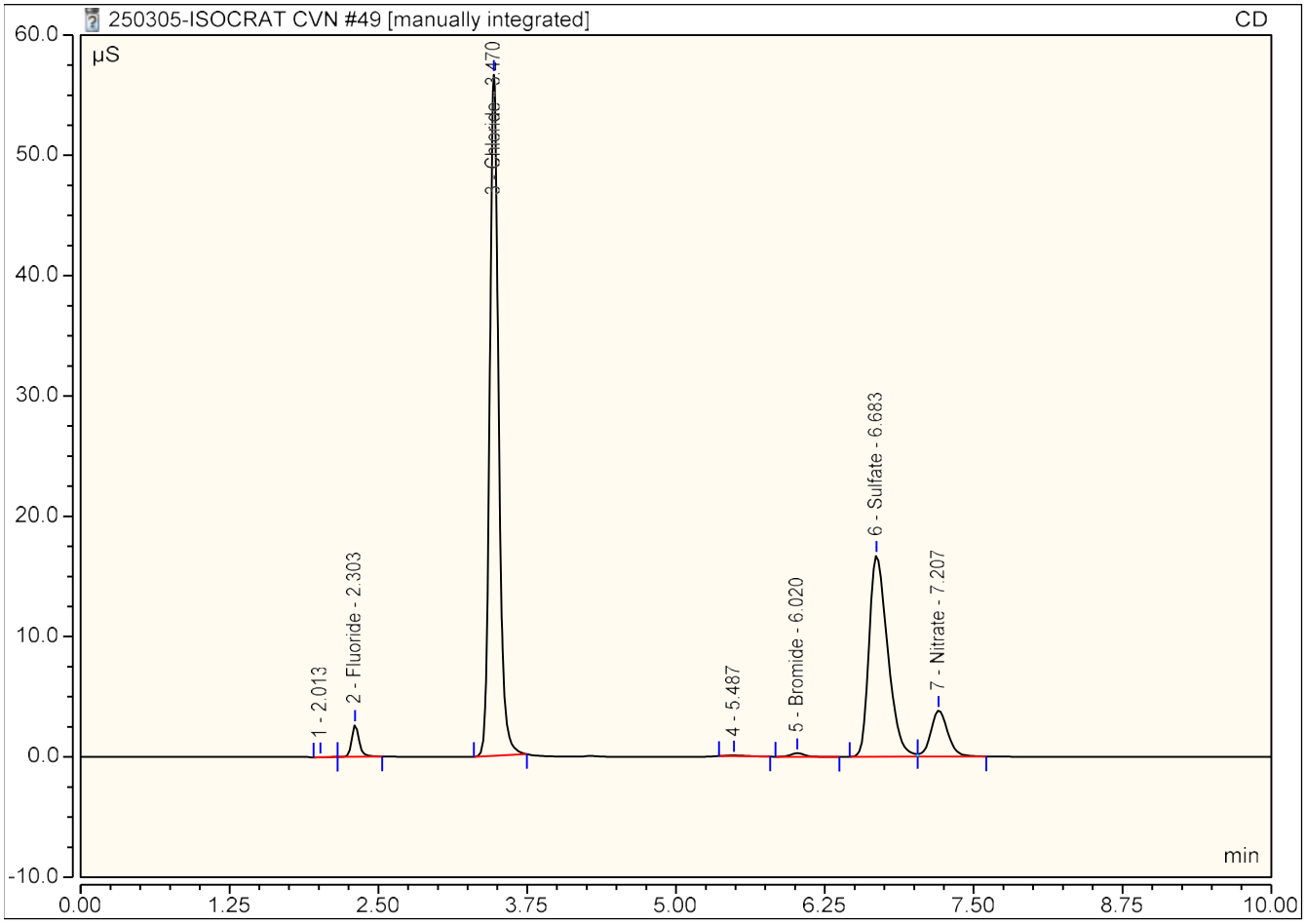
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.001	0.011	0.3221
5	3.47	**Chloride**	BMB	2.393	27.738	67.2533
7	6.02	**Bromide**	BMB	0.000	0.001	0.2466
8	6.64	**Sulfate**	BM *	5.160	25.934	193.3939
9	7.23	**Nitrate**	MB*	0.142	0.816	1.8561
TOTAL:				7.70	54.50	263.07



Peak Integration Report

Sample Name:	**L2511871-01 MS; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 20:07**	*Run Time:*	**10.00**

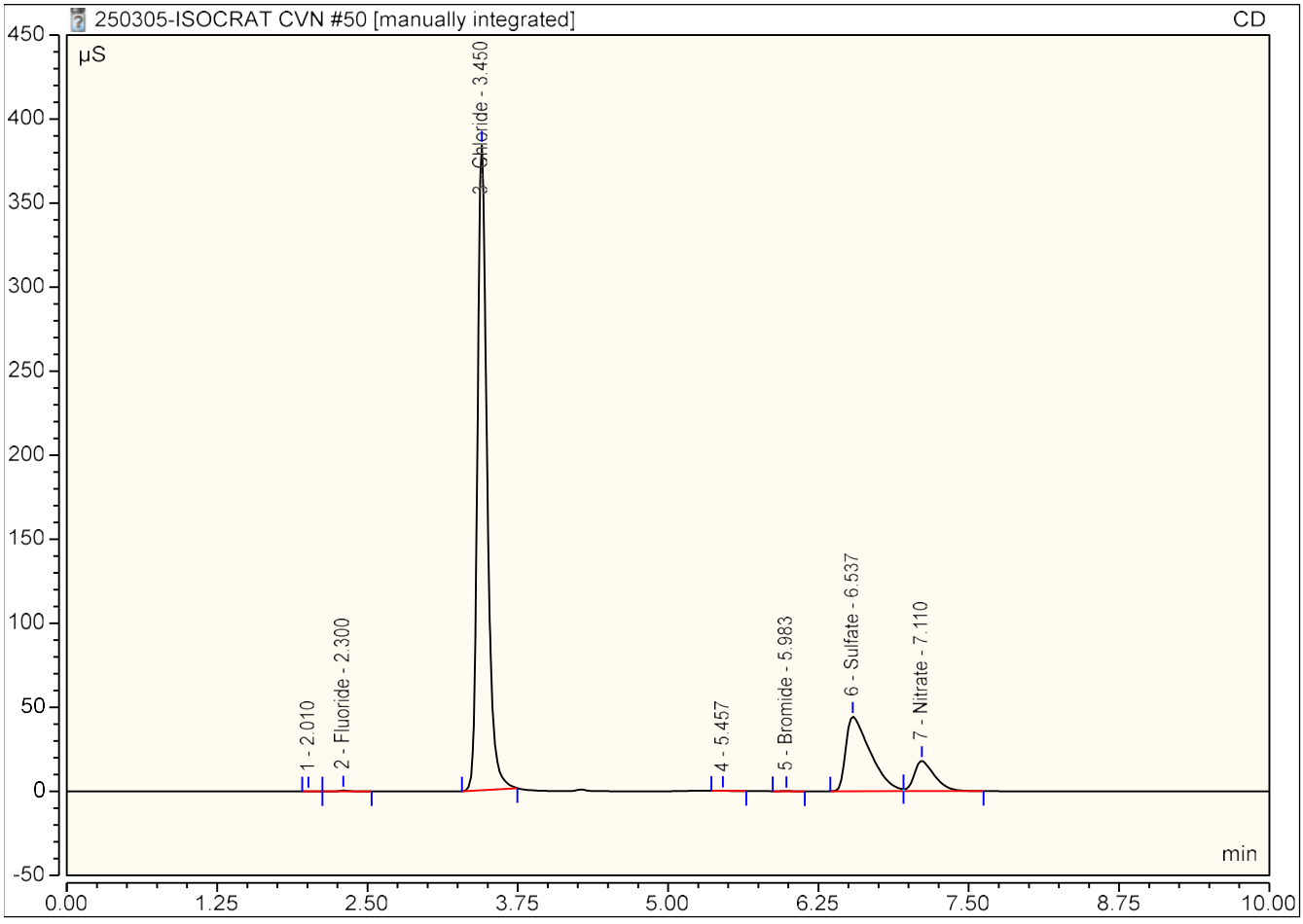
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.193	2.653	3.7896
3	3.47	**Chloride**	BMB	4.954	56.601	137.6684
5	6.02	**Bromide**	BMB	0.040	0.302	3.4125
6	6.68	**Sulfate**	BM *	3.040	16.708	115.1552
7	7.21	**Nitrate**	MB*	0.637	3.825	7.4250
TOTAL:				8.86	80.09	267.45



Peak Integration Report

Sample Name:	**L2511871-01 DUP F SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 20:19**	*Run Time:*	**10.00**

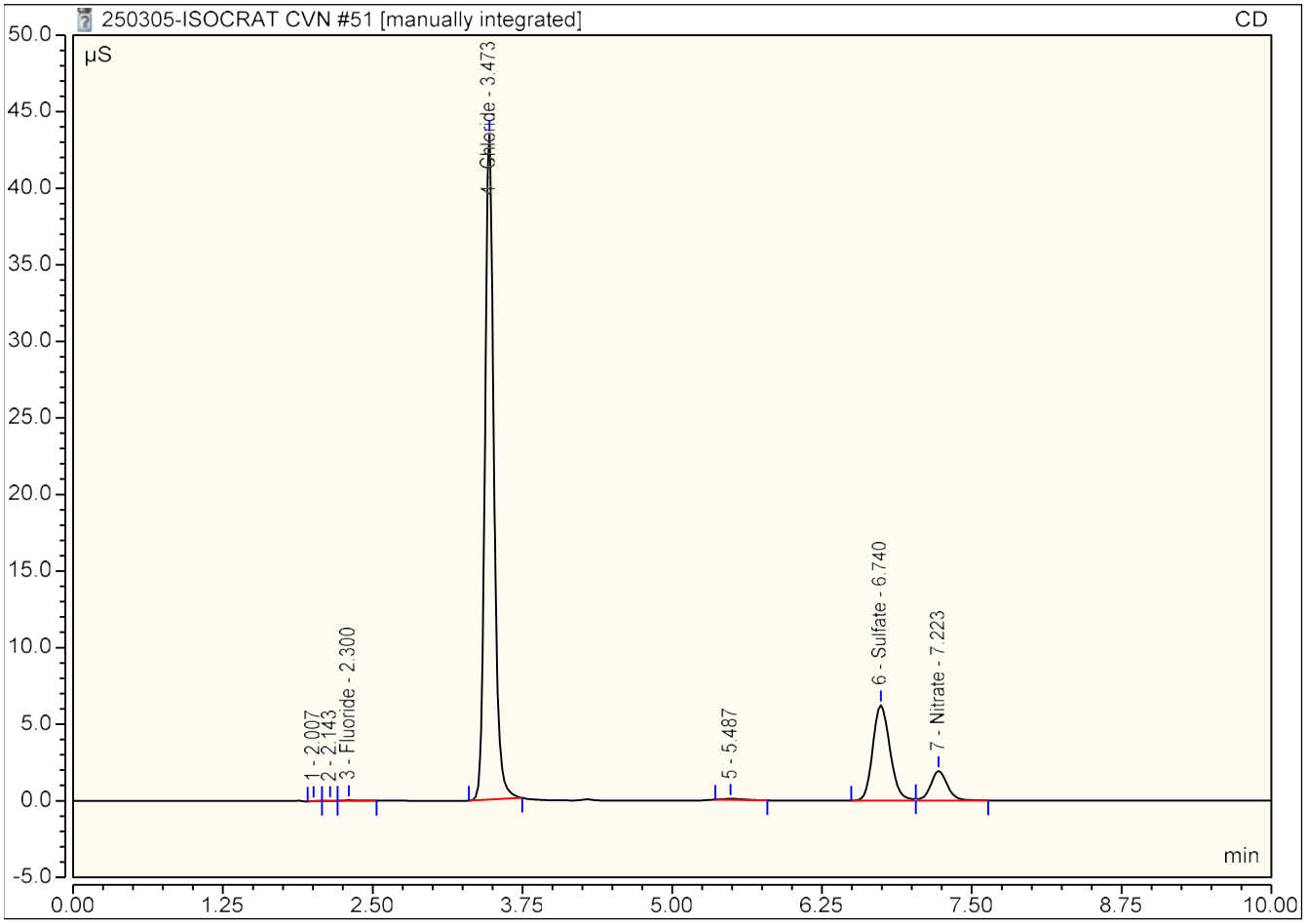
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.039	0.518	0.1014
3	3.45	**Chloride**	BMB	35.666	383.549	98.2003
5	5.98	**Bromide**	BMB	0.004	0.032	0.0539
6	6.54	**Sulfate**	BM *	10.401	44.332	38.6758
7	7.11	**Nitrate**	MB*	3.529	18.001	4.0009
TOTAL:				49.64	446.43	141.03



Peak Integration Report

Sample Name:	**L2511871-01; 10X DUP CL NO3**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 20:31**	*Run Time:*	**10.00**

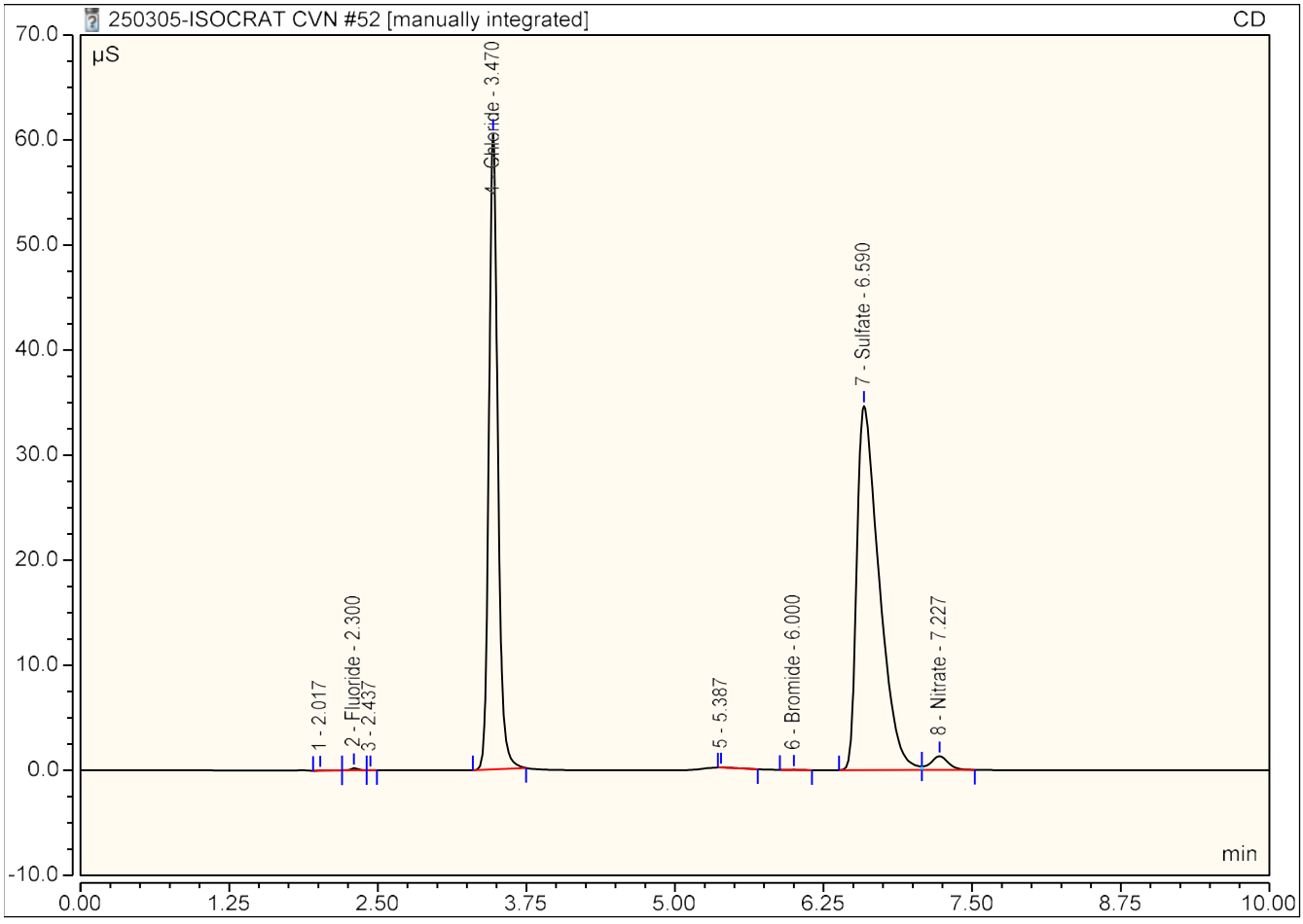
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.004	0.046	0.3755
4	3.47	**Chloride**	BMB	3.783	43.412	105.4590
6	6.74	**Sulfate**	BM *	1.038	6.236	41.3063
7	7.22	**Nitrate**	MB*	0.313	1.927	3.7797
TOTAL:				5.14	51.62	150.92



Peak Integration Report

Sample Name:	**L2511529-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 20:43**	*Run Time:*	**10.00**

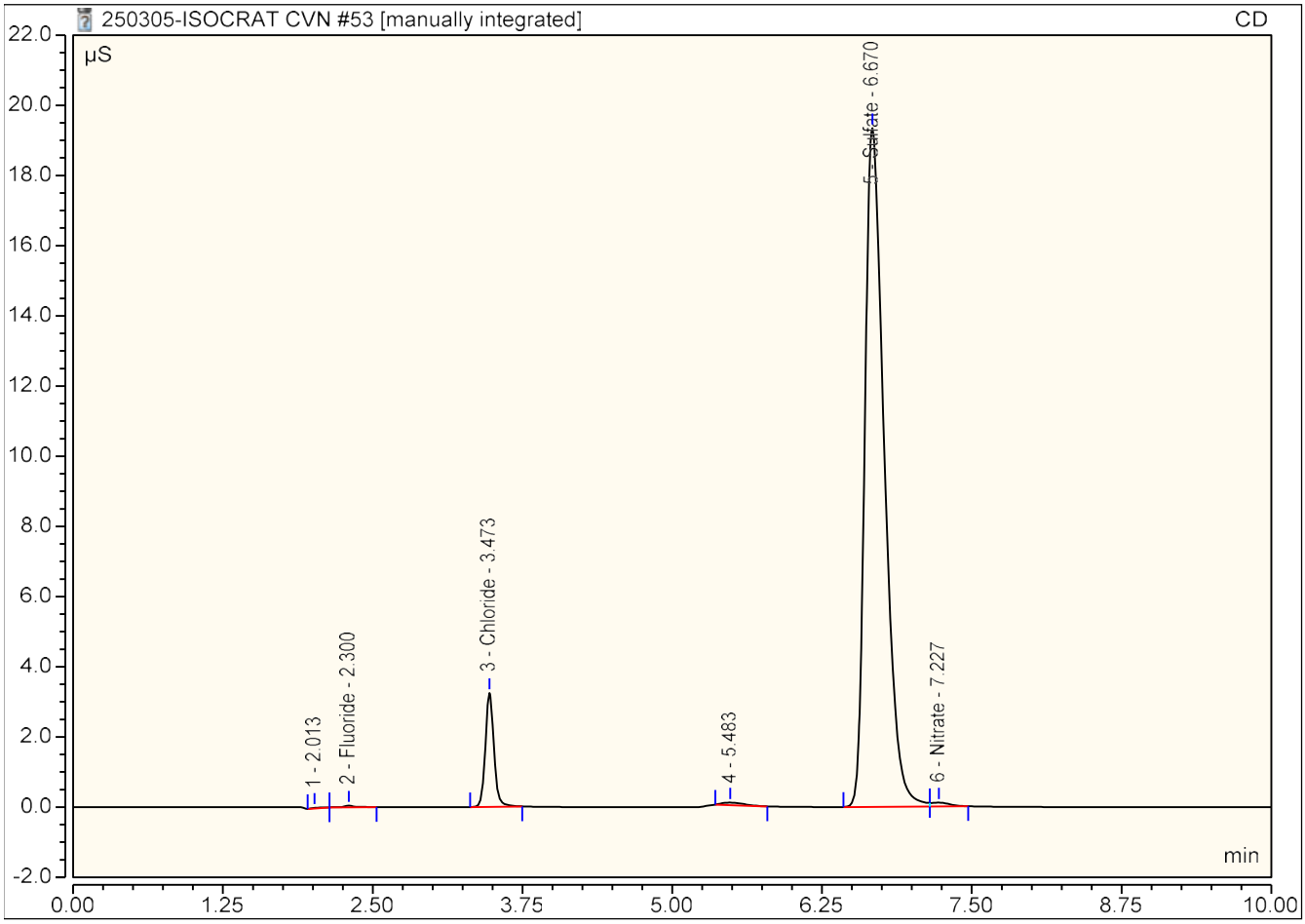
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.013	0.198	0.0548
4	3.47	**Chloride**	BMB	5.287	60.498	14.6813
6	6.00	**Bromide**	BMB	0.002	0.021	0.0435
7	6.59	**Sulfate**	BM *	7.524	34.664	28.0620
8	7.23	**Nitrate**	MB*	0.225	1.308	0.2787
TOTAL:				13.05	96.69	43.12



Peak Integration Report

Sample Name:	**L2511799-10; 10X SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 20:56**	*Run Time:*	**10.00**

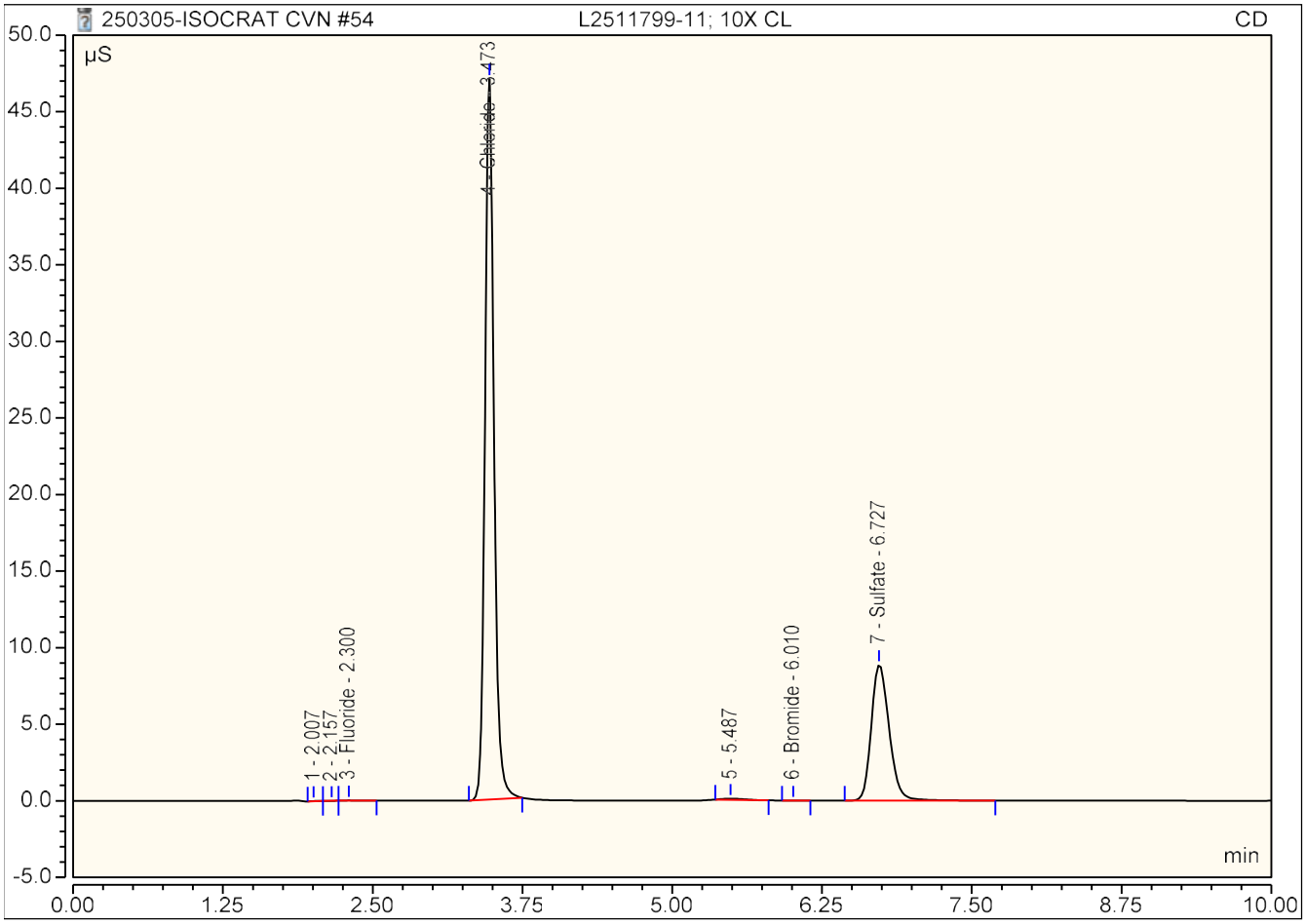
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.005	0.050	0.3921
3	3.47	**Chloride**	BMB	0.268	3.248	8.8210
5	6.67	**Sulfate**	BM *	3.626	19.342	136.8015
6	7.23	**Nitrate**	MB*	0.019	0.109	0.4690
TOTAL:				3.92	22.75	146.48



Peak Integration Report

Sample Name:	**L2511799-11; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 21:08**	*Run Time:*	**10.00**

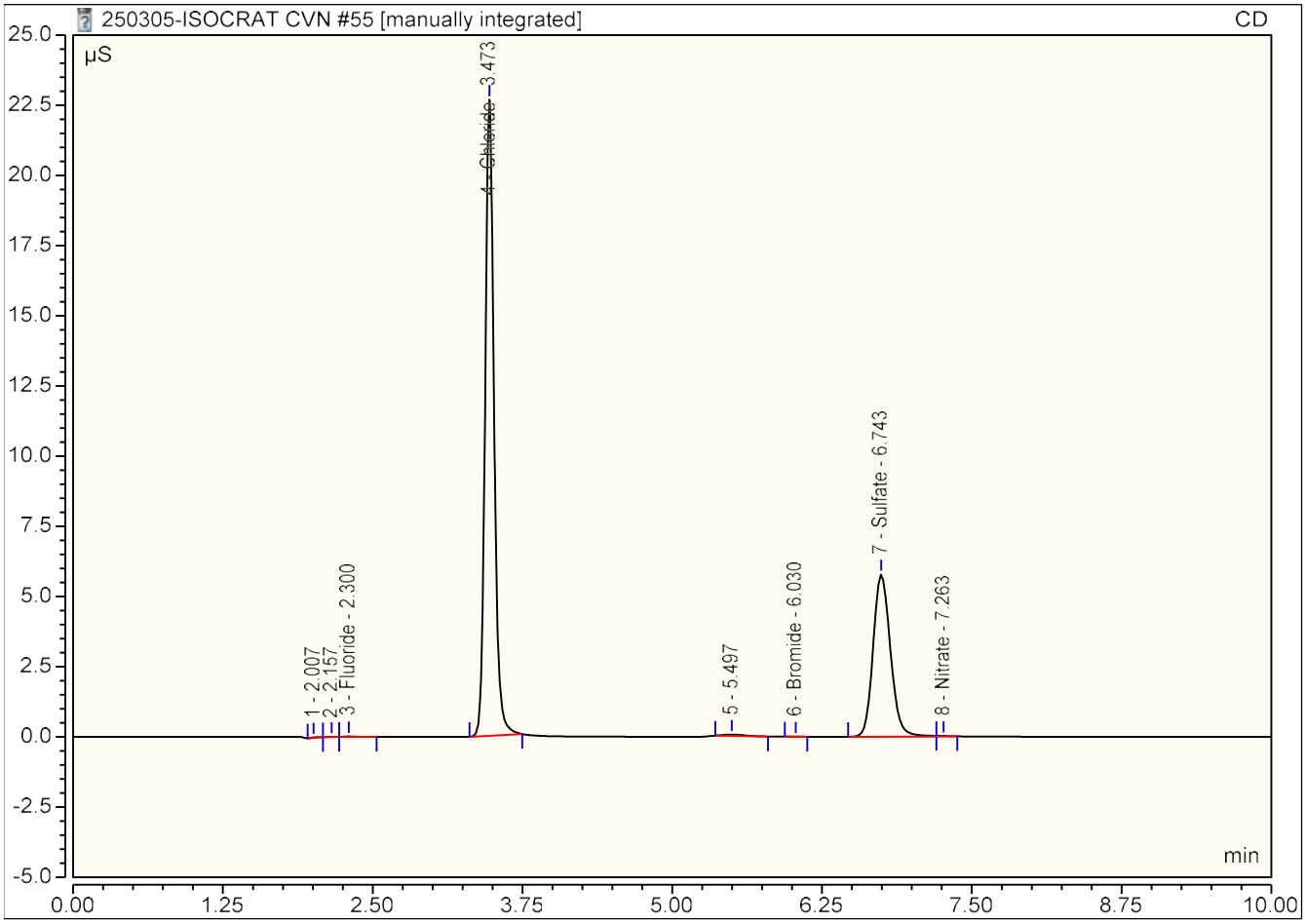
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.002	0.020	0.3405
4	3.47	**Chloride**	BMB	4.110	47.072	114.4663
6	6.01	**Bromide**	BMB	0.000	0.003	0.2683
7	6.73	**Sulfate**	BMB	1.530	8.873	59.4581
TOTAL:				5.64	55.97	174.53



Peak Integration Report

Sample Name:	**L2511799-13; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 21:20**	*Run Time:*	**10.00**

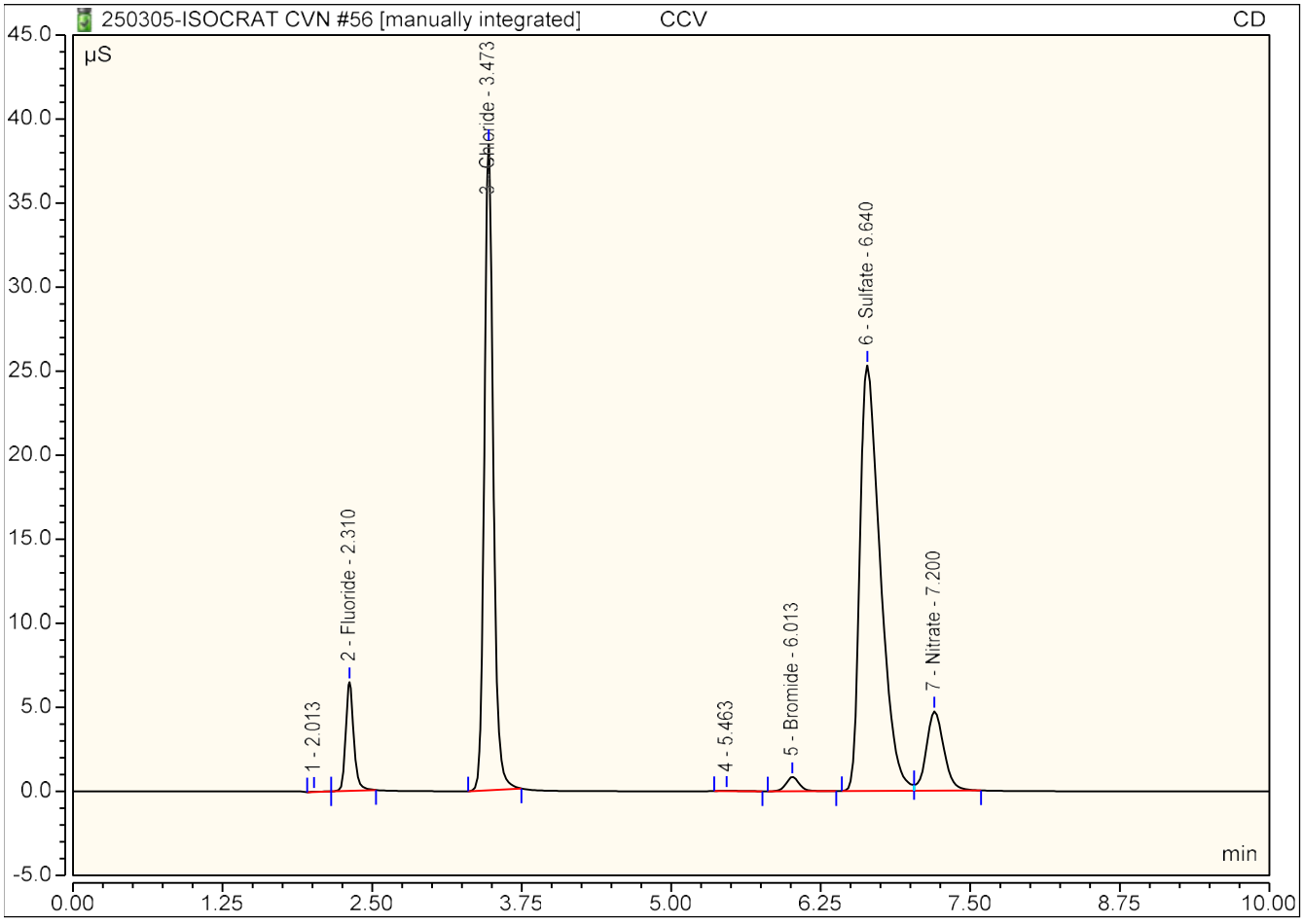
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.001	0.016	0.3356
4	3.47	**Chloride**	BMB	1.948	22.658	55.0285
6	6.03	**Bromide**	BMB	0.000	0.001	0.2418
7	6.74	**Sulfate**	BM *	0.967	5.777	38.6675
8	7.26	**Nitrate**	MB*	0.002	0.015	0.2746
TOTAL:				2.92	28.47	94.55



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 21:32**	*Run Time:*	**10.00**

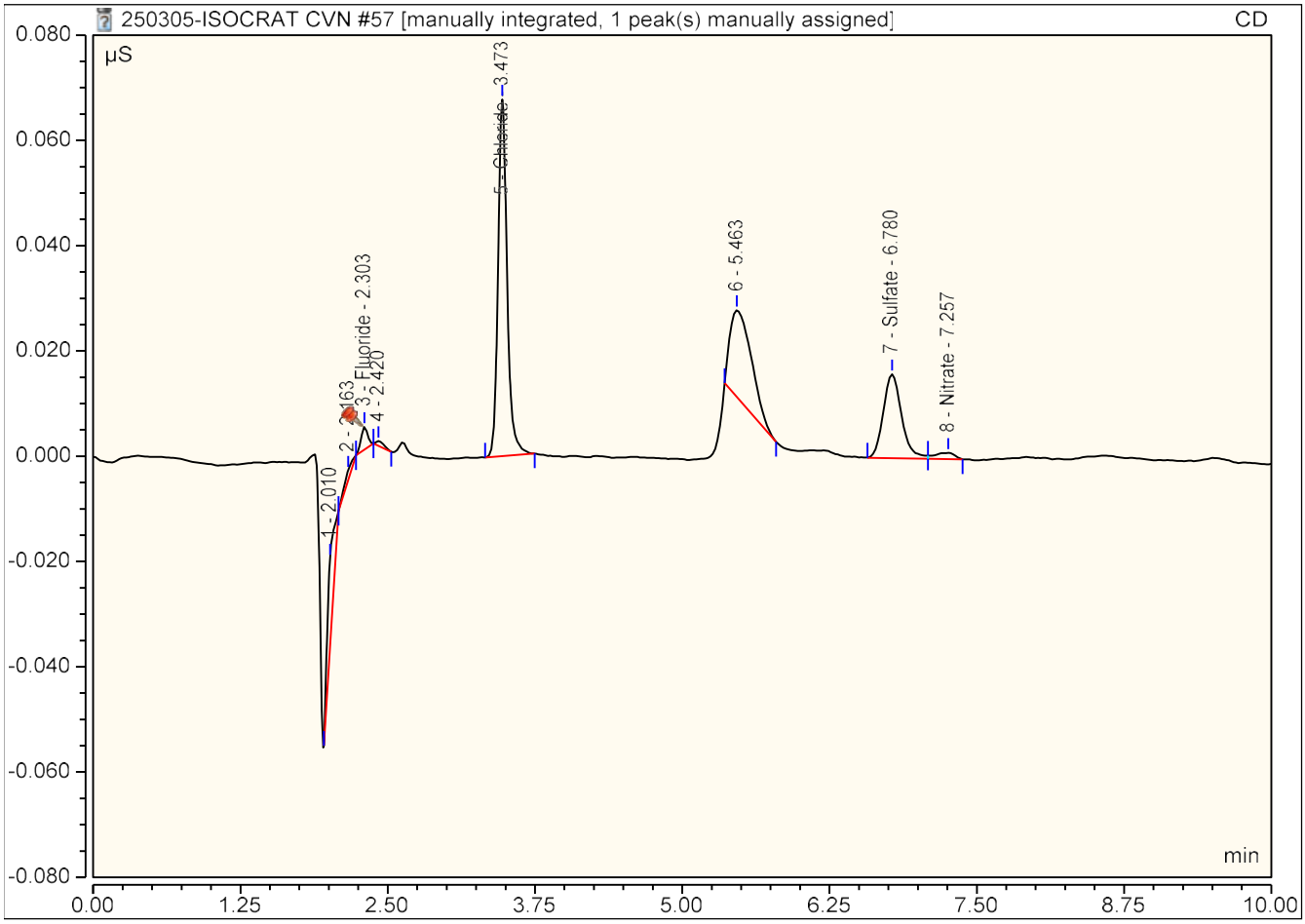
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.495	6.476	0.9244
3	3.47	**Chloride**	BMB	3.347	38.448	9.3477
5	6.01	**Bromide**	BMB	0.110	0.852	0.9049
6	6.64	**Sulfate**	BM *	5.000	25.313	18.7482
7	7.20	**Nitrate**	MB*	0.798	4.715	0.9247
TOTAL:				9.75	75.80	30.85



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Mar-2025 / 21:44**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.004	0.0315
5	3.47	**Chloride**	BMB	0.006	0.068	0.1625
7	6.78	**Sulfate**	BM *	0.003	0.016	0.3111
8	7.26	**Nitrate**	MB*	0.000	0.001	0.0256
TOTAL:				0.01	0.09	0.53



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	0.0938	n.a.	n.a.	n.a.	n.a.
2	STD 0.5	1.0	0.0476	0.3758	0.0446	0.6674	0.0457
3	STD 1.0	1.0	0.0642	0.5449	0.0635	1.0531	0.0673
4	STD 2.0	1.0	0.1838	1.9560	0.1847	3.9147	0.1909
5	STD 3.0	1.0	0.4769	5.0224	0.4750	10.0774	0.4612
6	STD 4.0	1.0	1.9996	19.7542	2.0072	39.6551	2.0099
7	STD 5.0	1.0	5.0029	50.0968	5.2562	100.1322	5.6299
8	RINSE	1.0	0.0313	0.2062	0.0266	0.3096	n.a.
9	CCV	1.0	0.9428	9.5146	0.9343	19.0556	0.9229
10	CCB	1.0	0.0316	0.1559	n.a.	0.3118	n.a.
11	ICV	1.0	0.7926	8.2493	0.7761	8.0821	0.7577
12	ICB	1.0	0.0324	0.1561	0.0258	0.3139	n.a.
13	BLK	1.0	0.0317	0.1571	0.0259	0.3032	n.a.
14	LCS	1.0	0.7897	8.2417	0.7261	7.9251	0.7587
15	L2511871-01 F SO4 BR	1.0	0.1031	99.2462	3.9151	39.0299	0.0552
16	L2511871-01; 10X CL NO3	10.0	0.3895	106.1854	3.7428	41.5316	0.2677
17	L2511799-01 CL SO4 NO3	1.0	0.2480	29.4190	n.a.	42.3062	0.0824
18	L2511799-02	1.0	0.6194	7.3994	0.0733	34.3506	0.0565
19	L2511799-03	1.0	0.1027	7.9780	0.2352	126.6071	0.0390
20	L2511799-03; 10X	10.0	0.3944	8.8568	0.4311	137.7055	n.a.
21	CCV	1.0	0.9401	9.4999	0.9212	19.0199	0.9238
22	CCB	1.0	0.0314	0.1562	0.0257	0.3112	n.a.
23	L2511799-04	1.0	0.0832	4.5670	0.0365	48.5047	n.a.
24	L2511799-10	1.0	0.1022	8.0246	0.2359	126.9962	0.0390
25	L2511799-11	1.0	0.0591	108.0732	n.a.	56.5978	0.0590
26	L2511799-12	1.0	0.0480	2.2740	n.a.	17.8403	n.a.
27	L2511799-13	1.0	0.0552	51.5181	0.0450	36.6009	n.a.
28	L2511799-14	1.0	0.0810	25.7293	0.2666	14.9871	0.0400
29	L2511799-15	1.0	0.0809	25.7332	0.2388	14.9236	0.0403
30	L2511799-16	1.0	0.0786	26.1588	0.3100	15.0384	0.0407
31	L2511799-17	1.0	0.0796	26.1283	0.3160	15.0374	0.0406
32	XL2511799-17; 10X	10.0	0.3602	27.7920	0.5102	16.3312	0.2519
33	CCV	1.0	0.9217	9.3687	0.9223	18.7651	0.9092
34	CCB	1.0	0.0318	0.1536	n.a.	0.3073	n.a.
35	L2511986-01	1.0	0.6147	80.5300	0.7292	10.9645	0.0246
36	L2511986-01; 10X	10.0	0.7902	85.6326	0.7903	12.2394	n.a.
37	L2511986-02	1.0	0.0311	0.1550	0.0259	0.3042	n.a.
38	L2511986-03 MS	1.0	0.3278	3.4499	0.3223	6.9112	0.3183
39	L2511986-03 DUP	1.0	0.0312	0.2676	n.a.	0.3034	n.a.
40	L2511986-03	1.0	0.0325	0.2673	n.a.	0.3025	n.a.
41	L2511986-04 MS	1.0	0.3216	3.4035	0.3181	6.8062	0.3148
42	L2511986-04 DUP	1.0	0.0312	0.1477	n.a.	0.3033	n.a.

43	L2511986-04	1.0	0.0311	0.1477	n.a.	0.3026	n.a.
44	CCV	1.0	0.9192	9.3321	0.9186	18.7134	0.9108
45	CCB	1.0	0.0322	0.1575	0.0257	0.3100	n.a.
46	L2511578-01	1.0	n.a.	0.1499	0.0260	0.3035	n.a.
47	XL2511435-01 CL SO4	1.0	0.0484	60.3332	1.9393	171.7036	0.0304
48	L2511435-01; 10X	10.0	0.3221	67.2533	1.8561	193.3939	0.2466
49	L2511871-01 MS; 10X	10.0	3.7896	137.6684	7.4250	115.1552	3.4125
50	L2511871-01 DUP F SO4 BR	1.0	0.1014	98.2003	4.0009	38.6758	0.0539
51	L2511871-01; 10X DUP CL NO3	10.0	0.3755	105.4590	3.7797	41.3063	n.a.
52	L2511529-01 BR	1.0	0.0548	14.6813	0.2787	28.0620	0.0435
53	L2511799-10; 10X SO4	10.0	0.3921	8.8210	0.4690	136.8015	n.a.
54	L2511799-11; 10X CL	10.0	0.3405	114.4663	n.a.	59.4581	0.2683
55	L2511799-13; 10X CL	10.0	0.3356	55.0285	0.2746	38.6675	0.2418
56	CCV	1.0	0.9244	9.3477	0.9247	18.7482	0.9049
57	CCB	1.0	0.0315	0.1625	0.0256	0.3111	n.a.
	Sum:	147.000	25.2098		46.9014	1914.6407	20.4600
	Average:	2.579	0.4502		1.0196	34.1900	0.5846
	Rel.Std.Dev:	133.911 %	1.9112		1.5617	1.3782	1.8914

Inject Time	Comment
24/Feb/2025 15:16	AU
24/Feb/2025 15:28	LOT#250224-0.5
24/Feb/2025 15:40	LOT#250224-1.0
24/Feb/2025 15:52	LOT#250224-2.0
24/Feb/2025 16:04	LOT#250224-3.0
24/Feb/2025 16:16	LOT#250224-4.0
24/Feb/2025 16:28	LOT#250224-5.0
05/Mar/2025 11:52	WG2036943-50-54
05/Mar/2025 12:04	LOT#250303-C
05/Mar/2025 12:16	CVN
05/Mar/2025 12:28	LOT#250303-I
05/Mar/2025 12:40	CVN
05/Mar/2025 12:52	CVN
05/Mar/2025 13:04	LOT#250303-I
05/Mar/2025 13:16	CVN
05/Mar/2025 13:28	CVN
05/Mar/2025 13:40	CVN
05/Mar/2025 13:53	CVN
05/Mar/2025 14:05	CVN
05/Mar/2025 14:17	CVN
05/Mar/2025 14:29	LOT#250303-C
05/Mar/2025 14:41	CVN
05/Mar/2025 14:53	CVN
05/Mar/2025 15:05	CVN
05/Mar/2025 15:17	CVN
05/Mar/2025 15:29	CVN
05/Mar/2025 15:41	CVN
05/Mar/2025 15:53	CVN
05/Mar/2025 16:06	CVN
05/Mar/2025 16:18	CVN
05/Mar/2025 16:30	CVN
05/Mar/2025 16:42	CVN
05/Mar/2025 16:54	LOT#250303-C
05/Mar/2025 17:06	CVN
05/Mar/2025 17:18	CVN
05/Mar/2025 17:30	CVN
05/Mar/2025 17:42	CVN
05/Mar/2025 17:54	CVN
05/Mar/2025 18:06	CVN
05/Mar/2025 18:18	CVN
05/Mar/2025 18:30	CVN
05/Mar/2025 18:43	CVN

05/Mar/2025 18:55	CVN
05/Mar/2025 19:07	LOT#250303-C
05/Mar/2025 19:19	CVN
05/Mar/2025 19:31	CVN
05/Mar/2025 19:43	CVN
05/Mar/2025 19:55	CVN
05/Mar/2025 20:07	CVN
05/Mar/2025 20:19	CVN
05/Mar/2025 20:31	CVN
05/Mar/2025 20:43	CVN
05/Mar/2025 20:56	CVN
05/Mar/2025 21:08	CVN
05/Mar/2025 21:20	CVN
05/Mar/2025 21:32	LOT#250303-C
05/Mar/2025 21:44	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2511986-04		
Matrix Spike	: WG2036954-3	**MS Analysis Date**	: 03/05/25 18:30
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**		**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	**ND**	**0.4**	**0.315**	**78**	**Q**					**90-110**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/05/25 18:55
Dup Sample ID	: WG2036954-4	**DUP Analysis Date**	: 03/05/25 18:43

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2511529
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2036954-2	**LCS Analysis Date**	: 03/05/25 13:04
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.759	95.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

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

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

March 05, 2025

Jennifer Byrnes

,

RE: Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Pace Analytical Services, LLC - Melville, NY
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70340756001	MW-11D	Water	03/03/25 14:20	03/03/25 16:30

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70340756001	MW-11D	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: March 05, 2025

General Information:
1 sample was analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Sample: MW-11D Lab ID: 70340756001 Collected: 03/03/25 14:20 Received: 03/03/25 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	<0.20	mg/L	2.0	0.20	1		03/05/25 15:20		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

QC Batch: 387860
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70340756001

METHOD BLANK: 2037740 Matrix: Water
Associated Lab Samples: 70340756001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	03/05/25 15:04	

LABORATORY CONTROL SAMPLE & LCSD: 2037741 2037742

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70340756001	MW-11D	SM22 4500-S2 F	387860		

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WO# : 70340756

70340756

: 35 Whitney Rd, Suite 5
14 Walker Way
4150: 275 Cooper Ave, Suite 105

Page 3 of 3

Date Rec'd in Lab

ALPHA Job #

FAX: 508-898-9193 FAX: 508-822-3288

mation

CORAM MATERIALS

Project Location:

Project # 2232.0006Y005

(Use Project name as Project #) ☐

Project Manager: Ashley Iervolino

ALPHAQuote #: 30343

Client Information

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

Turn-Around Time

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

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

ANALYSIS

SUB-SULFIDE

Sample Filtration

☐ Done
☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

Total Bottles

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SUB-SULFIDE	Total Bottles	Sample Specific Comments
	MW-11D	3/3/25	1420	AQ	BW	X	16	

Container Type: P
Preservative: C

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	3/3/25 1500	WiFi Pace	3/3/25 1500
WiFi Pace	3/3/25 1630	PACE	3/3/25 1630

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

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

WO#: 70340756
PM: BDR Due Date: 03/13/25
CLIENT: ALPHA

Client Name: ALPHA Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Temperature Blank Present:** ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other **Type of Ice:** (Wet) Blue None

Thermometer Used: T1721 **Correction Factor:** +0.2 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 5.4 **Cooler Temperature Corrected(°C):** 5.6 **Date/Time 5035A kits placed in freezer**
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: 3/3/25 CJ

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: 3/3/25 CJ

All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 23224				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulf	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: **Field Data Required?** Y / N
Person Contacted: **Date/Time:**
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2511529

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To:west.subreports@pacelabs.com
Bill To:invoices@pacelabs.coupahost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2511529 Report to include Method and/or Regulatory required batch QC

Additional Comments: REPORT TO MDL, ASP B Package TAT= 1-2 Days after final report per Mike Miller", needs NYSDEC Equis EDD

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2511529-01	MW-11D	03-03-25 14:20	WATER	Sulfide			0

	Relinquished By:	Date/Time:	Received By:	Date/Time:
Form No: AL_subcoc				

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 13, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2511529
Pace Project No.: 50395271

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2511529
Pace Project No.: 50395271

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2511529
Pace Project No.: 50395271

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50395271001	**MW-11D**	Water	03/03/25 14:20	03/05/25 08:50

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: L2511529
Pace Project No.: 50395271

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50395271001	**MW-11D**	EPA 9056	GLT	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2511529
Pace Project No.: 50395271

Sample: MW-11D **Lab ID: 50395271001** Collected: 03/03/25 14:20 Received: 03/05/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/08/25 03:34		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2511529
Pace Project No.: 50395271

QC Batch: 833204
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50395271001

METHOD BLANK: 3811907 Matrix: Water
Associated Lab Samples: 50395271001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	03/07/25 22:59	

LABORATORY CONTROL SAMPLE: 3811908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3811909 3811910

Parameter	Units	50395134001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	94	93	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2511529
Pace Project No.: 50395271

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2511529
Pace Project No.: 50395271

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50395271001	**MW-11D**	EPA 9056	833204		

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Pace

WO# : 50395271

50395271

tract Chain of Custody

nalytical (Indianapolis, IN)
oller Road
polis, IN 46268

Pace Job Number
L2511529

Page 1

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To:west.subreports@pacelabs.com Bill To:invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: NY Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables: ASP Category B Deliverables	State/Federal Program: Regulatory Criteria: Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2511529 Report to include Method and/or Regulatory required batch QC

Additional Comments: "Profile # 11706: needs L4 and EDD 265 NY EQUIS

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2511529-01	MW-11D	03-03-25 14:20	WATER	Iodide			1

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	Watson	3/4/25	redex	
	Feldt	3/5/25 850	Pace	3/5/25 850
Form No: AL_subcoc				

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: AB 3/5/25 1535

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. Cooler Temperature(s): 0.6 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Courier: Circle One — Fed Ex UPS Client Pace Now/Jett Other

4. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes)Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler? ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/
Short Hold Time Analysis (48 hours or less)? Analysis:		/
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		/
Custody Signatures Present?	/	
Containers Intact?:	/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/	
Extra labels on Terracore Vials? (soils only)		/

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			/
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			/
Trip Blank Present?		/	
Trip Blank Custody Seals?:			/
Out Of Temp Instructions if applicable:			

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

			MeOH (only)						AMBER GLASS							PLASTIC									OTHER					Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
			SBS																														
			DI																														
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit								
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Laboratory Report

Report prepared for:

Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581
Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:

Debbie S Robertson

Purchase Order:

For further assistance, contact:

Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2511529 MW-11D
Lab ID: 2025-V-6014 **Received:** 2025-03-05

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	217.27 mg	2025-03-14

Signatures:

Created By:	Debbie.S.Robertson	2025-03-18T17:38:21.023-04:00
Published By:	Debbie.S.Robertson	2025-03-18T17:38:42.6-04:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

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Reported results are only applicable to the item tested.
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Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70340756

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

March 05, 2025

Jennifer Byrnes

,

RE: Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70340756001	**MW-11D**	Water	03/03/25 14:20	03/03/25 16:30

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Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70340756001	**MW-11D**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: March 05, 2025

General Information:
1 sample was analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Sample: MW-11D **Lab ID: 70340756001** Collected: 03/03/25 14:20 Received: 03/03/25 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/05/25 15:20		

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

QC Batch: 387860
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70340756001

METHOD BLANK: 2037740 Matrix: Water
Associated Lab Samples: 70340756001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	03/05/25 15:04	

LABORATORY CONTROL SAMPLE & LCSD: 2037741 2037742

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CORAM MATERIALS 3/3
Pace Project No.: 70340756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70340756001	**MW-11D**	SM22 4500-S2 F	387860		

REPORT OF LABORATORY ANALYSIS

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WO# : 70340756

70340756

: 35 Whitney Rd, Suite 5
14 Walker Way
4150: 275 Cooper Ave, Suite 105

FAX: 508-898-9193 FAX: 508-822-3288

Page 3 of 3

Date Rec'd in Lab

ALPHA Job #

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project # 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

ANALYSIS

SUB-SULFIDE

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do

(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SUB-SULFIDE	Total Bottles
	MW-11D	3/3/25	1420	AQ	BW	X	16

Container Type: P
Preservative: C

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	3/3/25 1500	WiFi Pace	3/3/25 1500
WiFi Pace	3/3/25 1630		3/3/25 1630

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

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

DC#_Title: ENV-FRM-MELV-0024 v07_SCUR
Effective Date: 4/12/2024

WO#: 70340756
PM: BDR Due Date: 03/13/25
CLIENT: ALPHA

Client Name: ALPHA **Projec**

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Temperature Blank Present:** ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other **Type of Ice:** (Wet) Blue None

Thermometer Used: T1721 **Correction Factor:** +0.2 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 5.4 **Cooler Temperature Corrected(°C):** 5.6 **Date/Time 5035A kits placed in freezer**
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: 3/3/25 CJ

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: 3/3/25 CJ

All containers needing preservation have been pH paper Lot # 23224	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulf Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: **Field Data Required?** Y / N
Person Contacted: **Date/Time:**
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2511529

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To:west.subreports@pacelabs.com
Bill To:invoices@pacelabs.coupahost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2511529 Report to include Method and/or Regulatory required batch QC

Additional Comments: REPORT TO MDL, ASP B Package TAT= 1-2 Days after final report per Mike Miller", needs NYSDEC Equis EDD

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2511529-01	MW-11D	03-03-25 14:20	WATER	Sulfide			0

	Relinquished By:	Date/Time:	Received By:	Date/Time:
Form No: AL_subcoc				

SAMPLE NO.

MW-11D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70340756 Contract: CORAM MATERIALS 3/3

Lab Sample ID: 70340756001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	03/05/2025 15:20

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70340756 Contract : CORAM MATERIALS 3/3

Method Blank Matrix: Water Instrument ID: 70WET0

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	2037740	C
Sulfide									<0.20	U

SAMPLE NO.

2037742LCSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70340756 Contract: CORAM MATERIALS 3/3

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

2037741LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70340756 Contract: CORAM MATERIALS 3/3

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

2037742LCSD

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70340756 Contract: CORAM MATERIALS 3/3

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - New York SDG No. : 70340756 Contract: CORAM MATERIALS 3/3

Preparation Method: SM22 4500-S2 F Batch: WET 88939

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2037740	2037740BLANK	03/05/2025	200	200
2037741	2037741LCS	03/05/2025	200	200
2037742	2037742LCSD	03/05/2025	200	200
70340756001	MW-11D	03/05/2025	1000	1000

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70340756 Contract: CORAM MATERIALS 3/3

Instrument ID: 70WET0 Analysis Method: SM22 4500-S2 F

Start Date: 03/05/2025 15:04 End Date: 03/05/2025 15:20

Sample Name	Lab Sample ID	D/F	Date	Time	sulf
2037740BLANK	2037740	1	03/05/2025	15:04	X
2037741LCS	2037741	1	03/05/2025	15:05	X
2037742LCSD	2037742	1	03/05/2025	15:06	X
MW-11D	70340756001	1	03/05/2025	15:20	X

Prep Log Report

Batch Information: WET_SULFIDE_88939_3/5/25

4500S2F | Sulfide

Analysis Method	SM22 4500-S2 F	Instrument	70WET0	Analyzed By	JWM	1:1 HCl	199532
Starch Indicator Solution	204544	Reviewed By	SDO	Reviewed By Date	03/05/2025 15:43	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Initial Volume (mL)	Iodine 0.025N (mL)	Thio Start (mL)	Thio End (mL)	Sodium Thiosulfate 0.025N (mL)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	BLANK	**2037740**	Y	200	201492 (5)	17	22	204388 (5.00)	0.00	mg/L	03/05/2025 15:04:02	Yes	188807 ()	
4500S2F W	LCS	**2037741**	Y	200	201492 (10)	22	25	204388 (3.00)	14.00	mg/L	03/05/2025 15:05:03	Yes	188807 ()	
4500S2F W	LCSD	**2037742**	Y	200	201492 (10)	25	28	204388 (3.00)	14.00	mg/L	03/05/2025 15:06:05	Yes	188807 ()	
4500S2F W	PS	**30758696001**	Y	250	201492 (5)	28	33	204388 (5.00)	0.00	mg/L	03/05/2025 15:10:06	Yes	188807 ()	
4500S2F W	PS	**70339859001**	Y	1000	201492 (5)	33	38	204388 (5.00)	0.00	mg/L	03/05/2025 15:13:09	Yes	188807 ()	
4500S2F W	PS	**70340731001**	Y	1000	201492 (5)	38	43	204388 (5.00)	0.00	mg/L	03/05/2025 15:16:11	Yes	188807 ()	
4500S2F W	PS	**70340756001**	Y	1000	201492 (5)	43	48	204388 (5.00)	0.00	mg/L	03/05/2025 15:20:13	Yes	188807 ()	

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	BLANK	**2037740**	
4500S2F W	LCS	**2037741**	203485 (1)
4500S2F W	LCSD	**2037742**	203485 (1)
4500S2F W	PS	**30758696001**	
4500S2F W	PS	**70339859001**	
4500S2F W	PS	**70340731001**	
4500S2F W	PS	**70340756001**	

Standard Notes:

203485: Wet Sulfide LCS/ Second Source 5mL

Thu, 6 Mar 2025 07:02:07 -0600

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50395271

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 13, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2511529
Pace Project No.: 50395271

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2511529
Pace Project No.: 50395271

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2511529
Pace Project No.: 50395271

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50395271001	**MW-11D**	Water	03/03/25 14:20	03/05/25 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L2511529
Pace Project No.: 50395271

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50395271001	**MW-11D**	EPA 9056	GLT	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2511529
Pace Project No.: 50395271

Sample: MW-11D **Lab ID: 50395271001** Collected: 03/03/25 14:20 Received: 03/05/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/08/25 03:34		

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA

Project: L2511529
Pace Project No.: 50395271

QC Batch: 833204
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50395271001

METHOD BLANK: 3811907 Matrix: Water
Associated Lab Samples: 50395271001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	03/07/25 22:59	

LABORATORY CONTROL SAMPLE: 3811908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3811909 3811910

Parameter	Units	50395134001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	94	93	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2511529
Pace Project No.: 50395271

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2511529
Pace Project No.: 50395271

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50395271001	**MW-11D**	EPA 9056	833204		

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Pace

WO# : 50395271

50395271

ıtract Chain of Custody

nalytical (Indianapolis, IN)
oller Road
polis, IN 46268

Pace Job Number
L2511529

Page 1

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To:west.subreports@pacelabs.com Bill To:invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: NY Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables: ASP Category B Deliverables	State/Federal Program: Regulatory Criteria: Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2511529 Report to include Method and/or Regulatory required batch QC

Additional Comments: "Profile # 11706: needs L4 and EDD 265 NY EQUIS

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2511529-01	MW-11D	03-03-25 14:20	WATER	Iodide			1

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	Mahaj Watakar Fedex	3/4/25	redex	
		3/5/25 850	Pace	3/5/25 850
Form No: AL_subcoc				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: AB 3/5/25 1535

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. Cooler Temperature(s): (Initial/Corrected) 0.6 | | | |

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Courier: Circle One — Fed Ex UPS Client Pace Now/Jett Other

4. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes)Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler? ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/
Short Hold Time Analysis (48 hours or less)? Analysis:		/
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		/
Custody Signatures Present?	/	
Containers Intact?:	/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/	
Extra labels on Terracore Vials? (soils only)		/

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			/
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			/
Trip Blank Present?		/	
Trip Blank Custody Seals?:			/
Out Of Temp Instructions if applicable:			

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

SAMPLE NO.

MW-11D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Lab Sample ID: 50395271001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	03/08/2025 03:34

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Initial Calibration Verification Source: 399113

Continuing Calibration Verification Source: 407366

Concentration Units: mg/L Instrument ID: 50IC05

	Initial Calibration Verification				Continuing Calibration Verification						
	01/10/2025 14:21				03/07/2025 22:04			03/08/2025 01:44			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	5.5	110.0	90-110	1.0	0.92	92.1	1.0	0.93	93.2	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 407366

Concentration Units: mg/L Instrument ID: 50IC05

	Continuing Calibration Verification			
	03/08/2025 05:24			Control Limit
Analyte	True	Found	%R	
Iodide	1.0	0.92	92.2	90-110

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract : L2511529

Method Blank Matrix: Water Instrument ID: 50IC05

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	01/10/2025 14:40	C	03/07/2025 22:23	C	03/08/2025 02:02	C	03/08/2025 05:42	C	3811907	C
Iodide	0.068	U	0.068	U	0.068	U	0.068	U	ND	U

SAMPLE NO.

3811909MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Matrix: Water Basis: Wet Parent Sample ID: 50395134001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	94

SAMPLE NO.

3811910MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Matrix: Water Basis: Wet Parent Sample ID: 50395134001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	93

SAMPLE NO.

3811910MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	4.7	4.7	1

SAMPLE NO.

3811908LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	5.5	110	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Preparation Method: EPA 9056 Batch: GCSV 59505

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3811907	3811907BLANK	03/07/2025	10	10
3811908	3811908LCS	03/07/2025	10	10
3811909	3811909MS	03/07/2025	10	10
3811910	3811910MSD	03/08/2025	10	10
50395271001	MW-11D	03/08/2025	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50395271 Contract: L2511529

Instrument ID: 50IC05 Analysis Method: EPA 9056

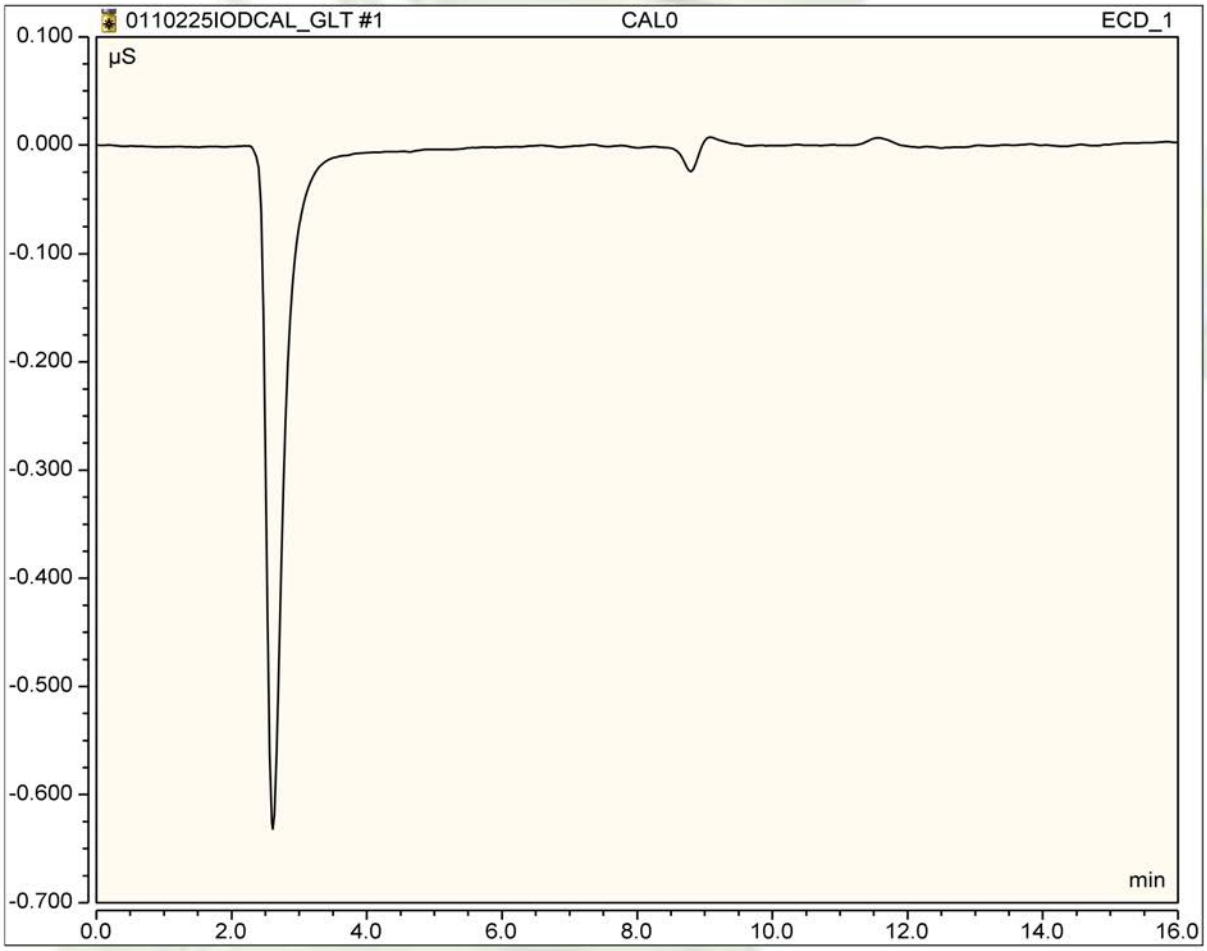
Start Date: 01/10/2025 12:30 End Date: 03/08/2025 05:42

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
26259305CAL0	26259305CAL0	1	01/10/2025	12:30	X
26259306CAL1	26259306CAL1	1	01/10/2025	12:48	X
26259307CAL2	26259307CAL2	1	01/10/2025	13:06	X
26259308CAL3	26259308CAL3	1	01/10/2025	13:24	X
26259309CAL4	26259309CAL4	1	01/10/2025	13:43	X
26259310CAL5	26259310CAL5	1	01/10/2025	14:02	X
26259311ICV	26259311ICV	1	01/10/2025	14:21	X
26259312ICB	26259312ICB	1	01/10/2025	14:40	X
26510050CCV	26510050CCV	1	03/07/2025	22:04	X
26510051CCB	26510051CCB	1	03/07/2025	22:23	X
3811907BLANK	3811907	1	03/07/2025	22:59	X
3811908LCS	3811908	1	03/07/2025	23:18	X
50395134001	50395134001	1	03/07/2025	23:36	X
3811909MS	3811909	1	03/07/2025	23:54	X
3811910MSD	3811910	1	03/08/2025	00:13	X
26510052CCV	26510052CCV	1	03/08/2025	01:44	X
26510053CCB	26510053CCB	1	03/08/2025	02:02	X
MW-11D	50395271001	1	03/08/2025	03:34	X
26510054CCV	26510054CCV	1	03/08/2025	05:24	X
26510055CCB	26510055CCB	1	03/08/2025	05:42	X

CAL0
396047

Sample Name:	**CAL0**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA1*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 12:30**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

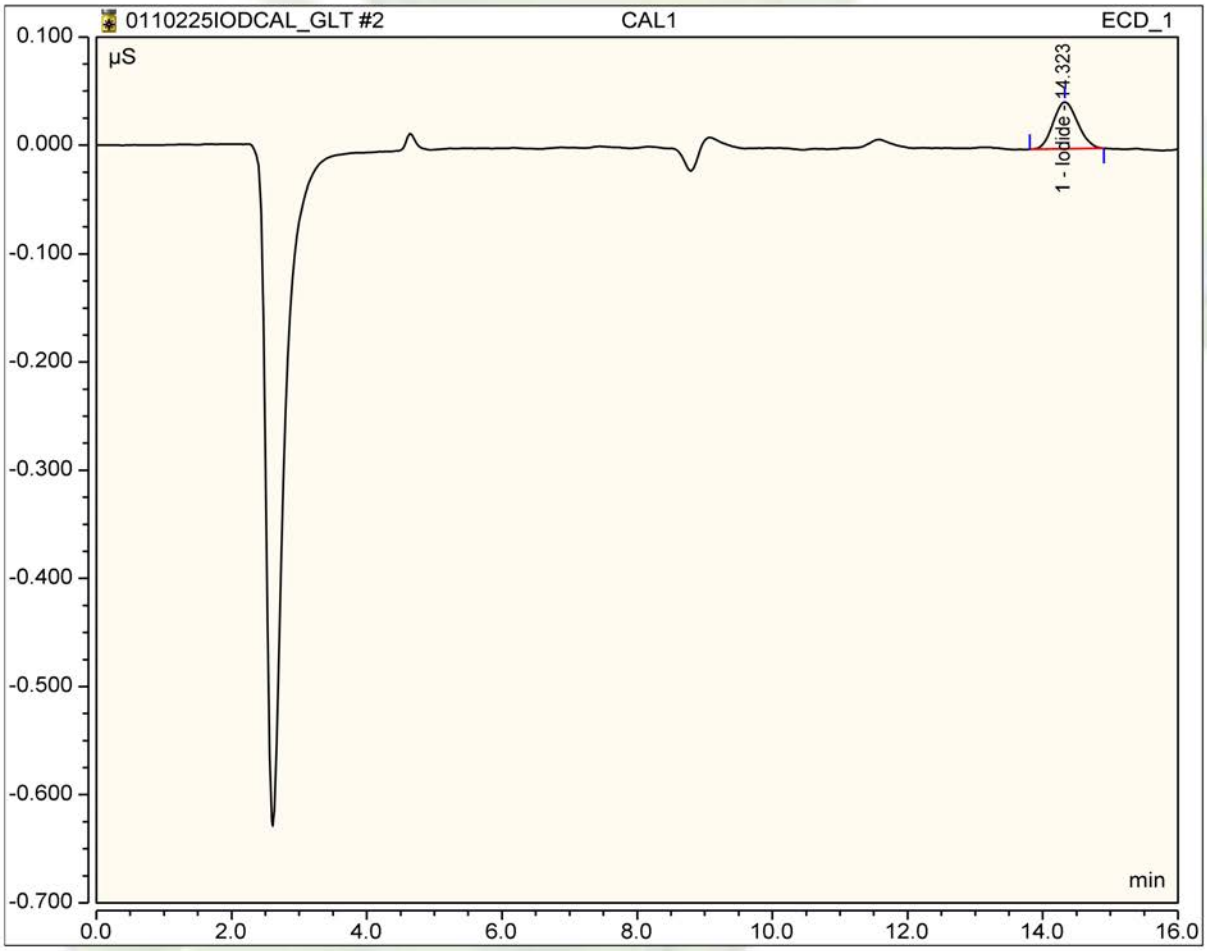
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
396046

Sample Name:	**CAL1**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 12:48**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

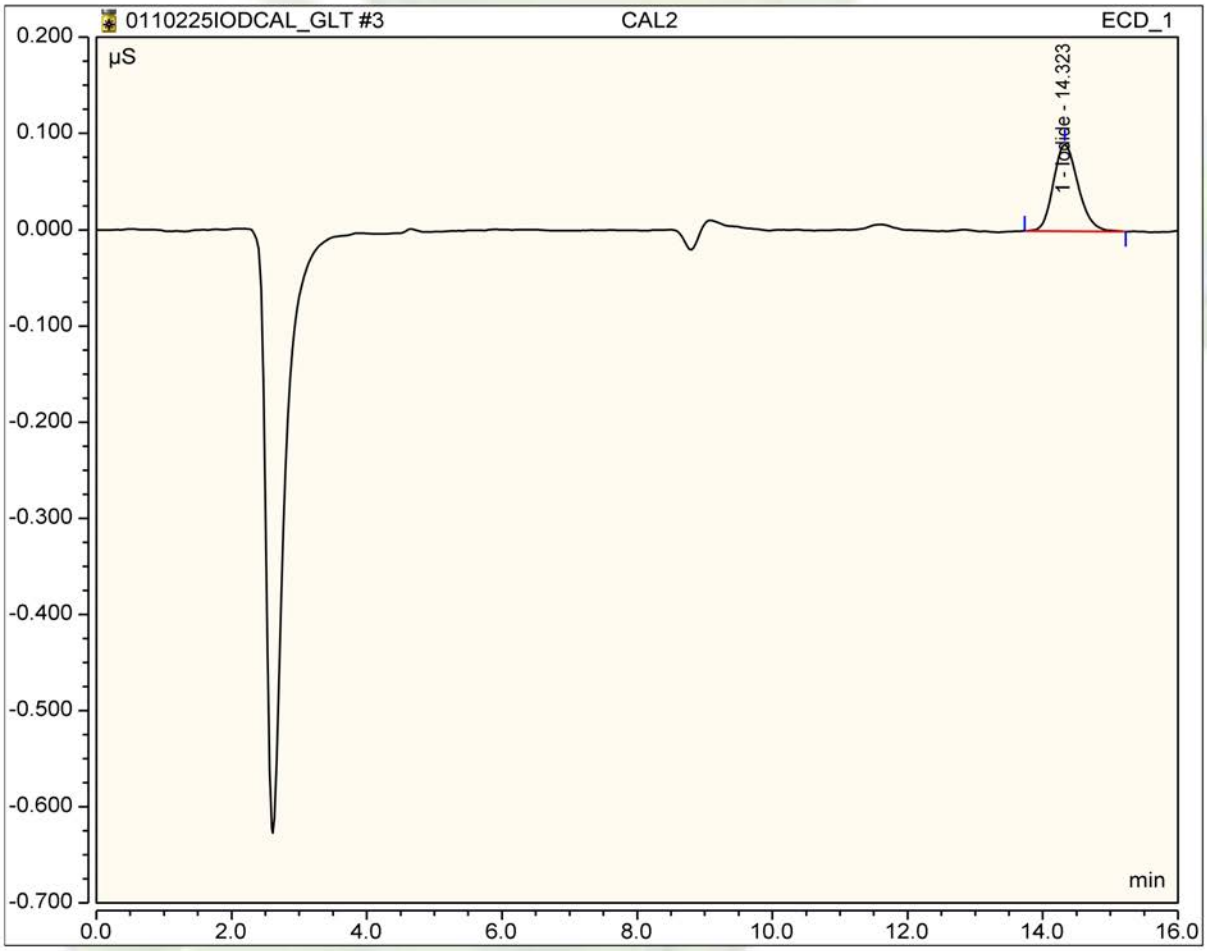
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	0.4779	0.018	0.043	BMB



CAL2
396045

Sample Name:	**CAL2**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 13:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

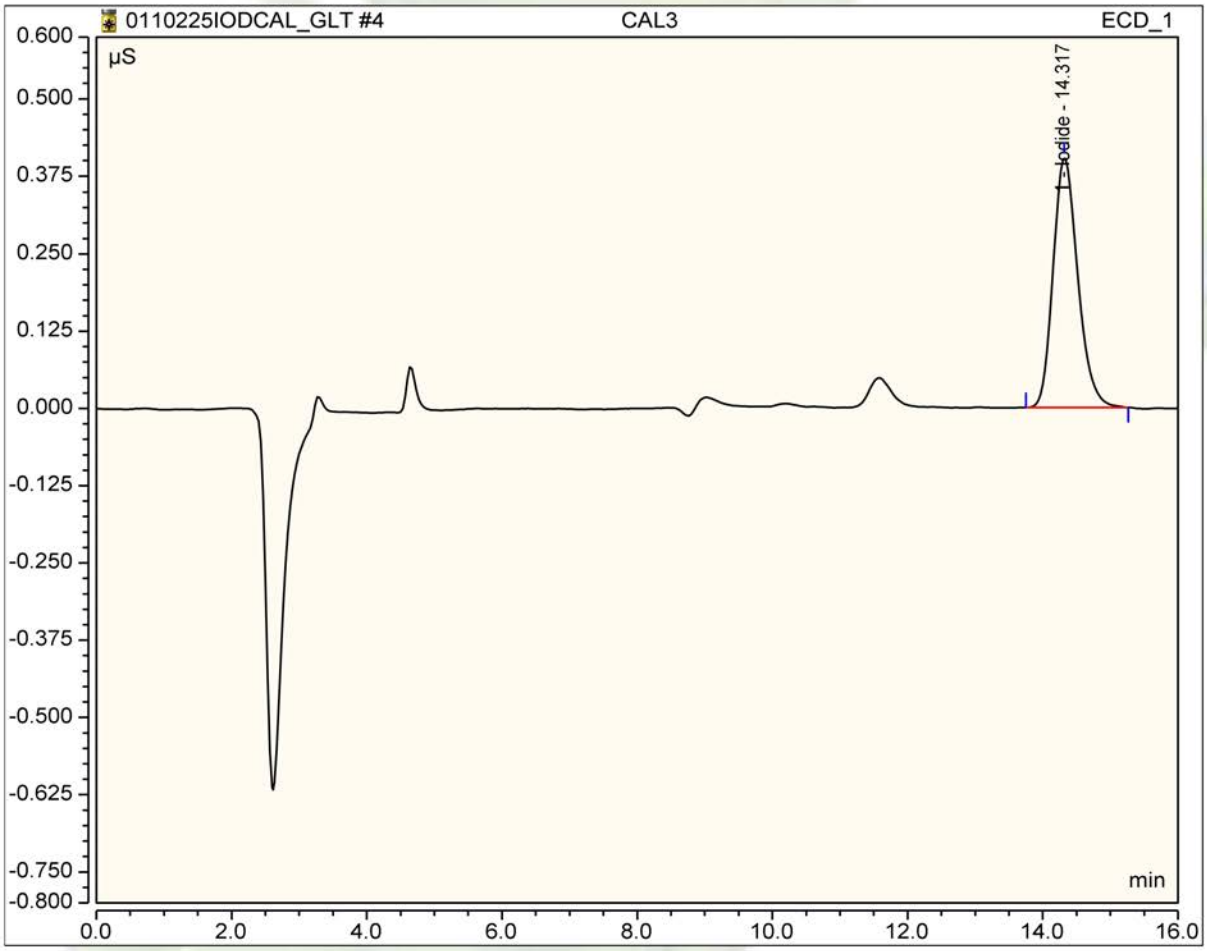
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	1.0549	0.038	0.089	BMB



CAL3
396044

Sample Name:	**CAL3**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA3*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

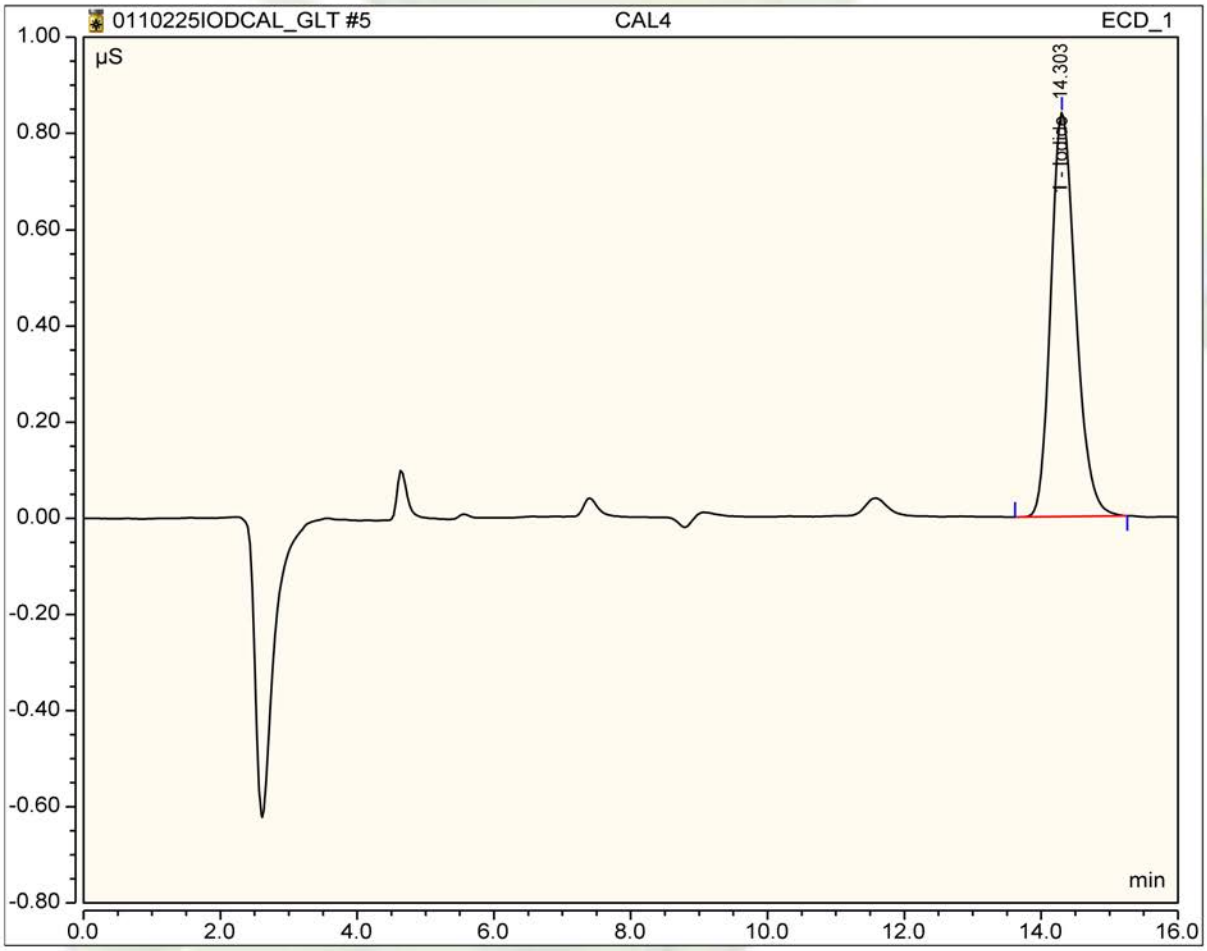
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	4.8737	0.170	0.404	BMB



CAL4
404450

Sample Name:	**CAL4**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA4*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 13:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

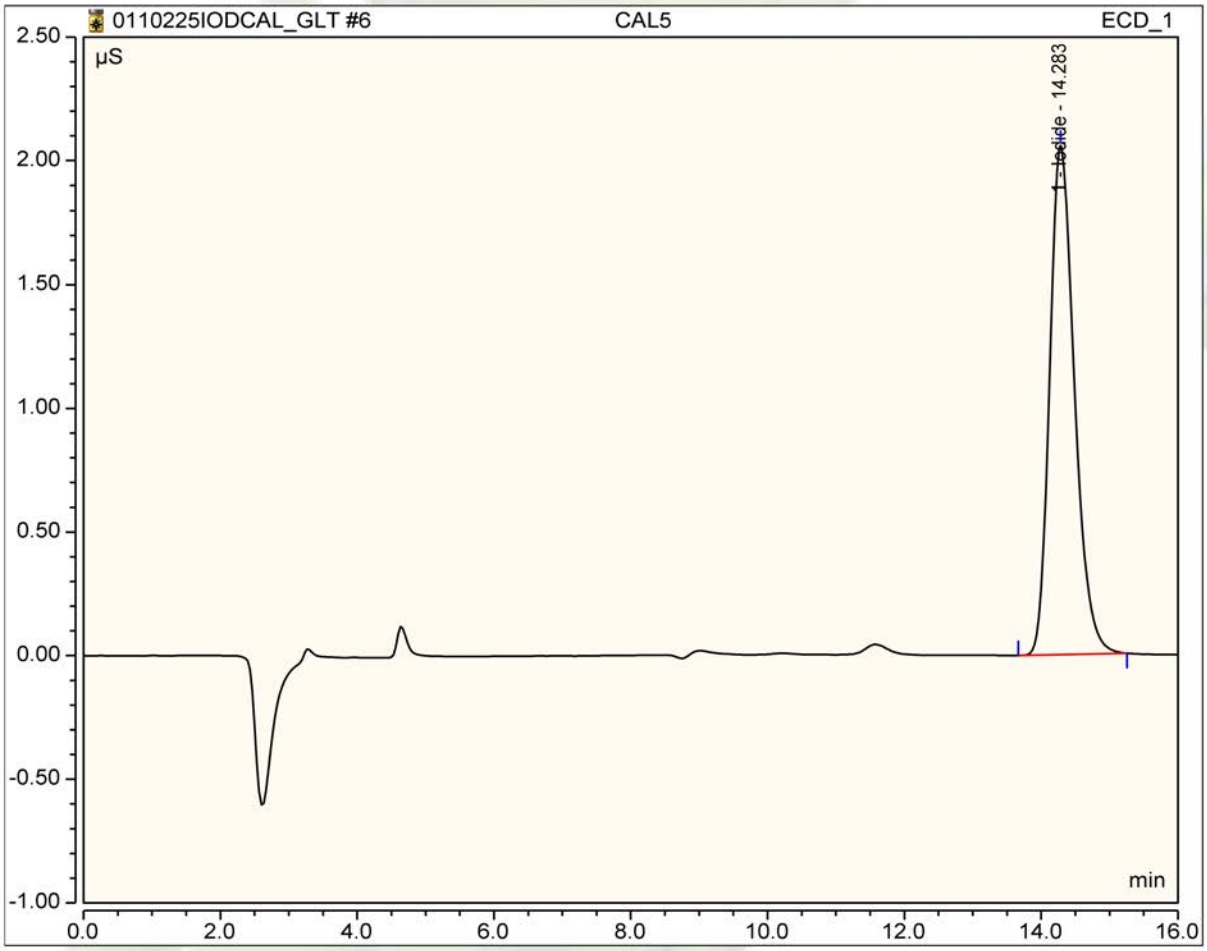
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.30	**Iodide**	10.1795	0.354	0.840	BMB



CAL5
396042

Sample Name:	**CAL5**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA5*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

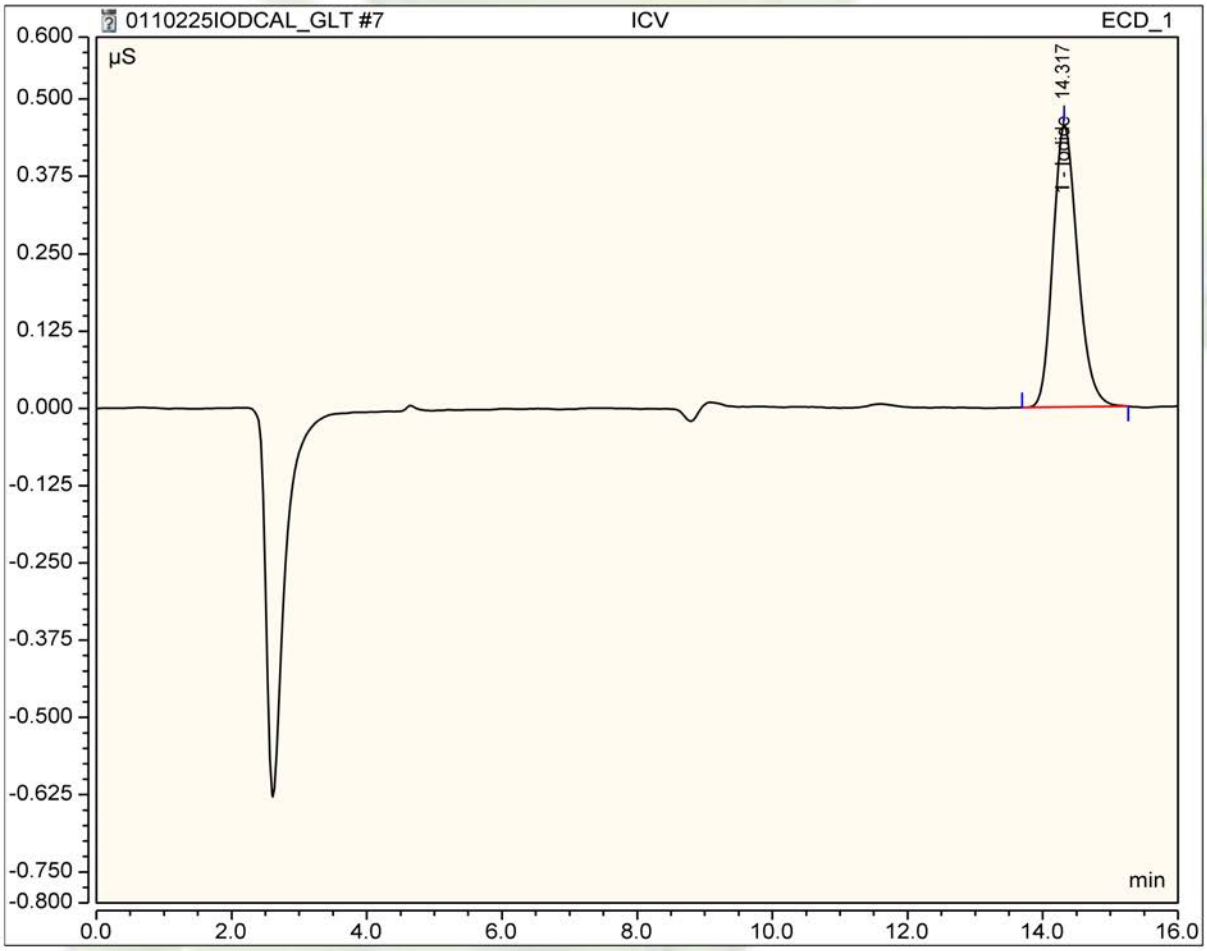
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.28	**Iodide**	24.9140	0.863	2.058	BMB



ICV
399113

Sample Name:	**ICV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

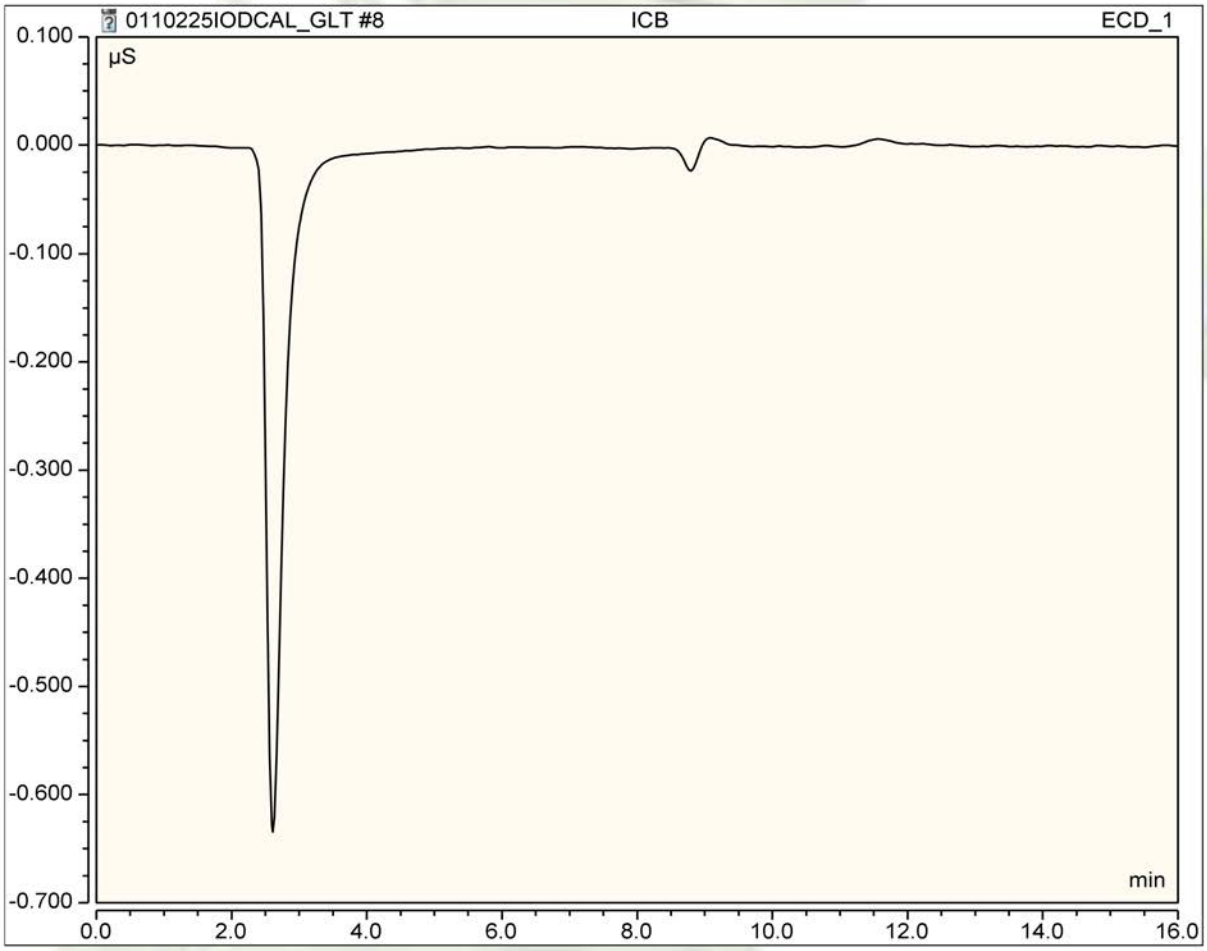
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	5.4995	0.192	0.456	BMB



ICB
340111

Sample Name:	**ICB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

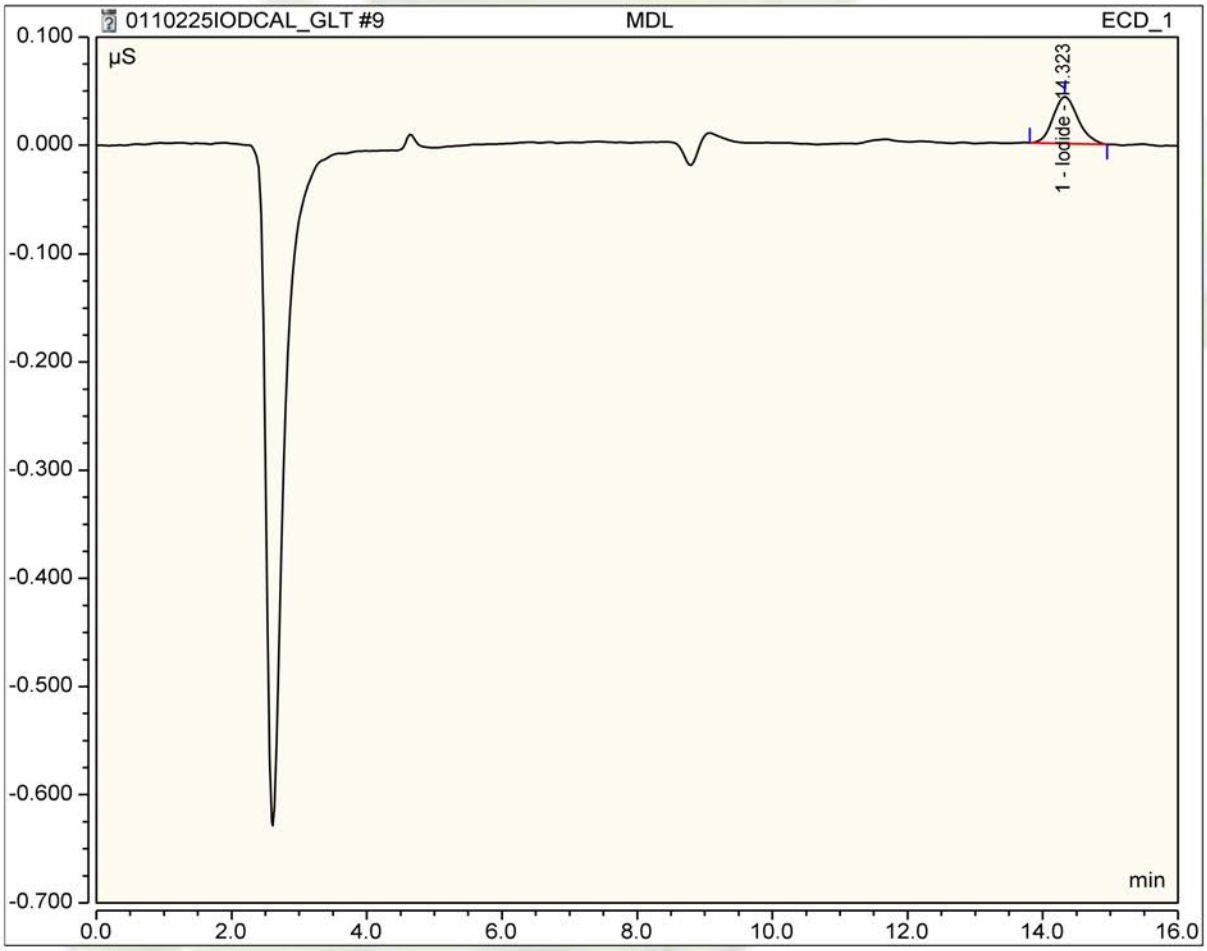
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



MDL

Sample Name:	**MDL**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:59**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

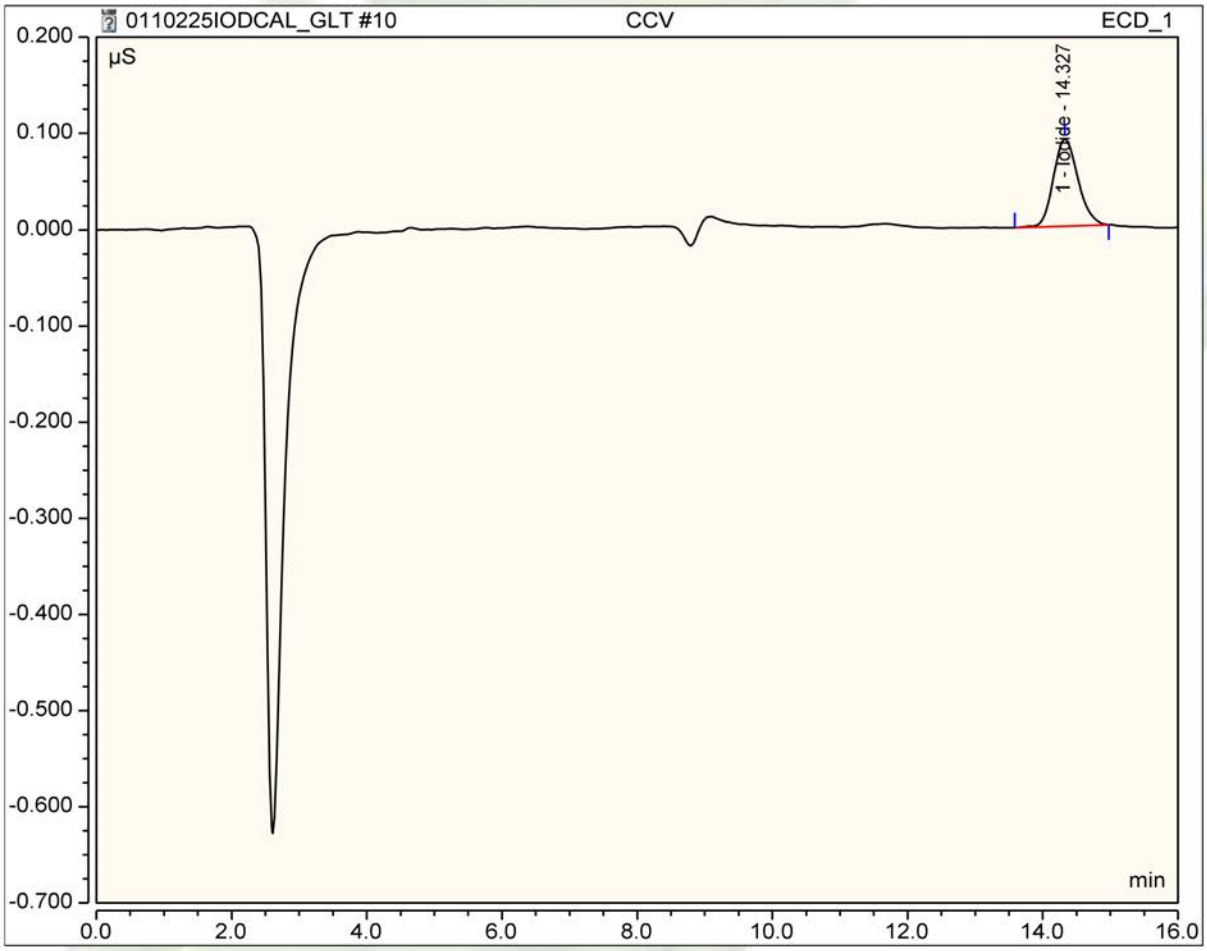
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	0.4888	0.018	0.043	BMB



CCV
389128

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 15:18**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

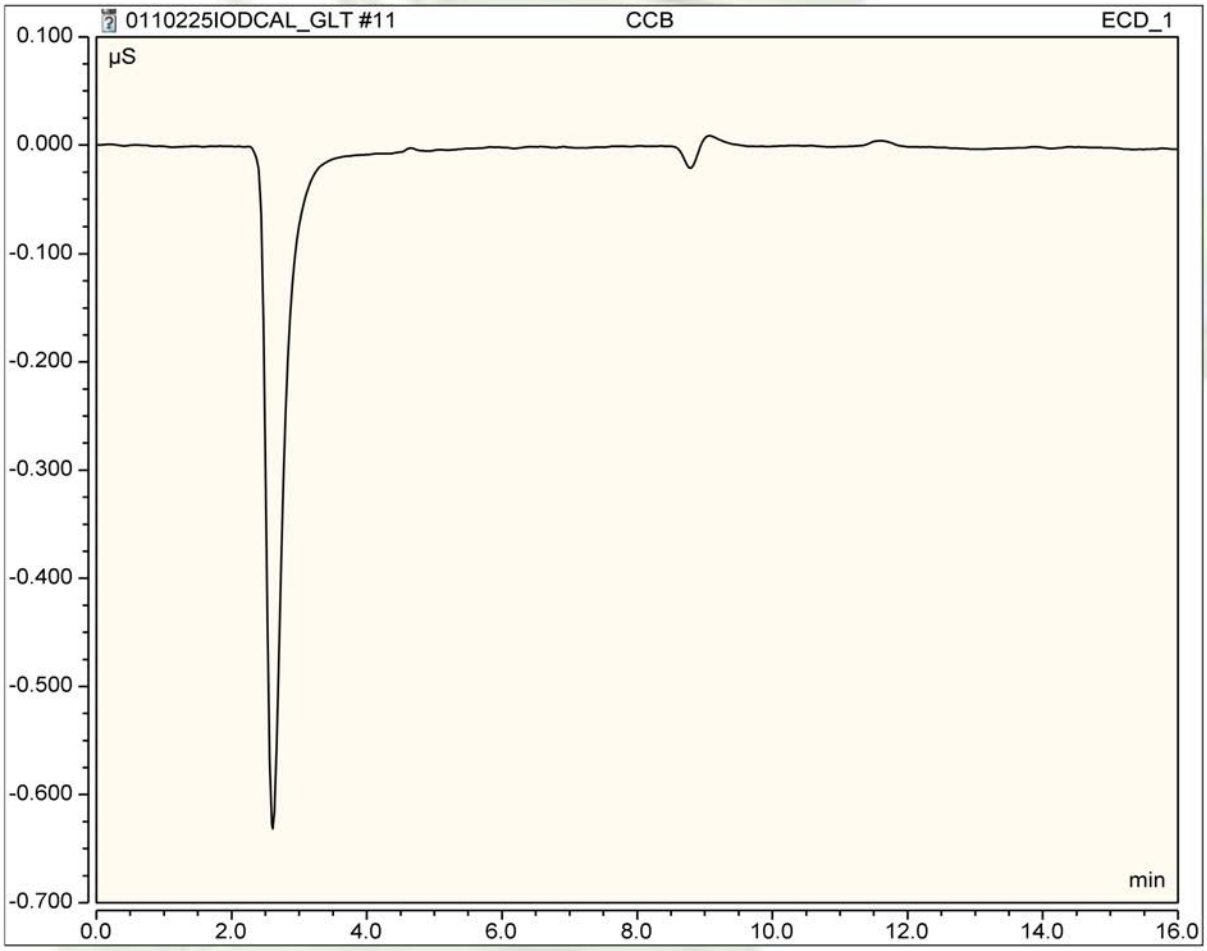
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.33	**Iodide**	1.0462	0.038	0.090	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 15:36**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

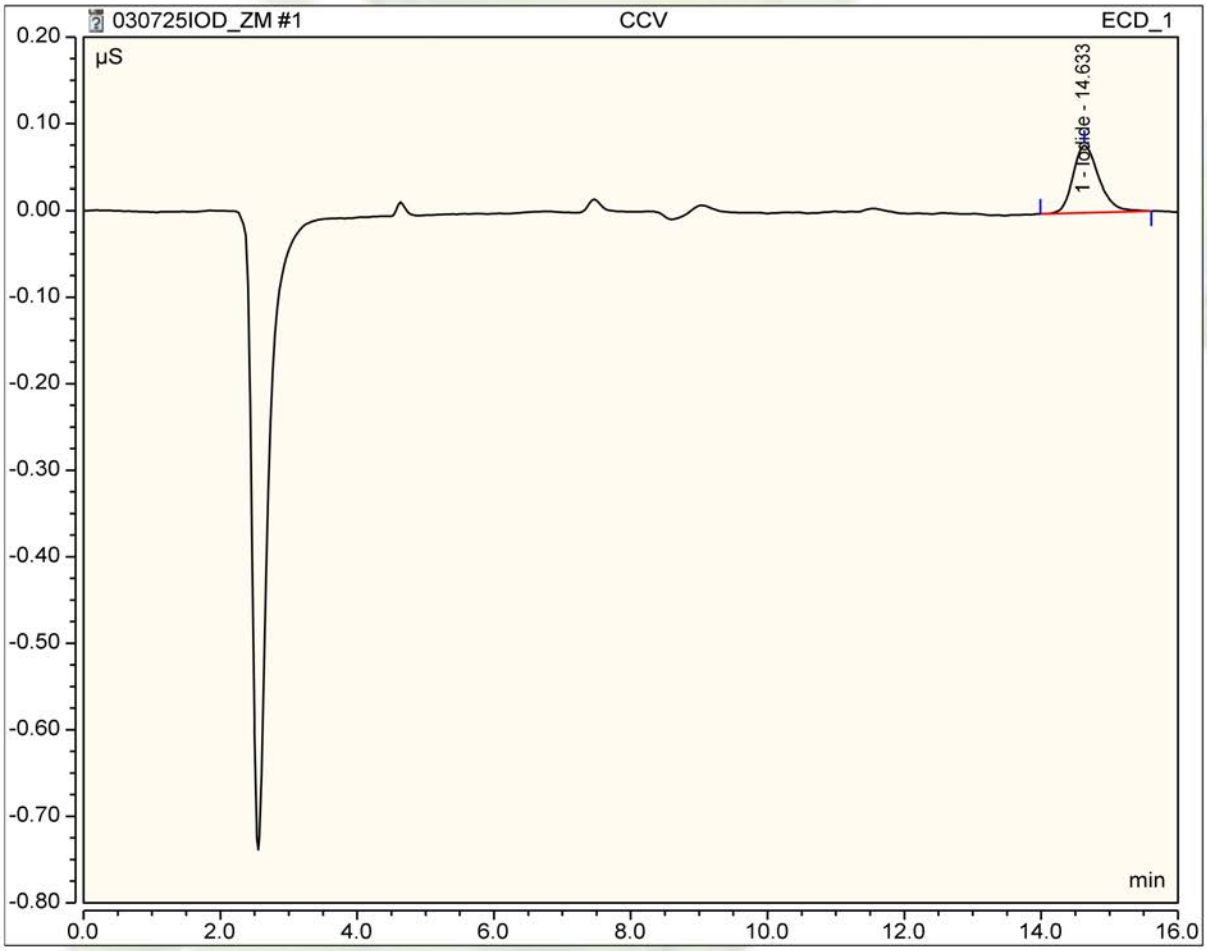
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 11:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

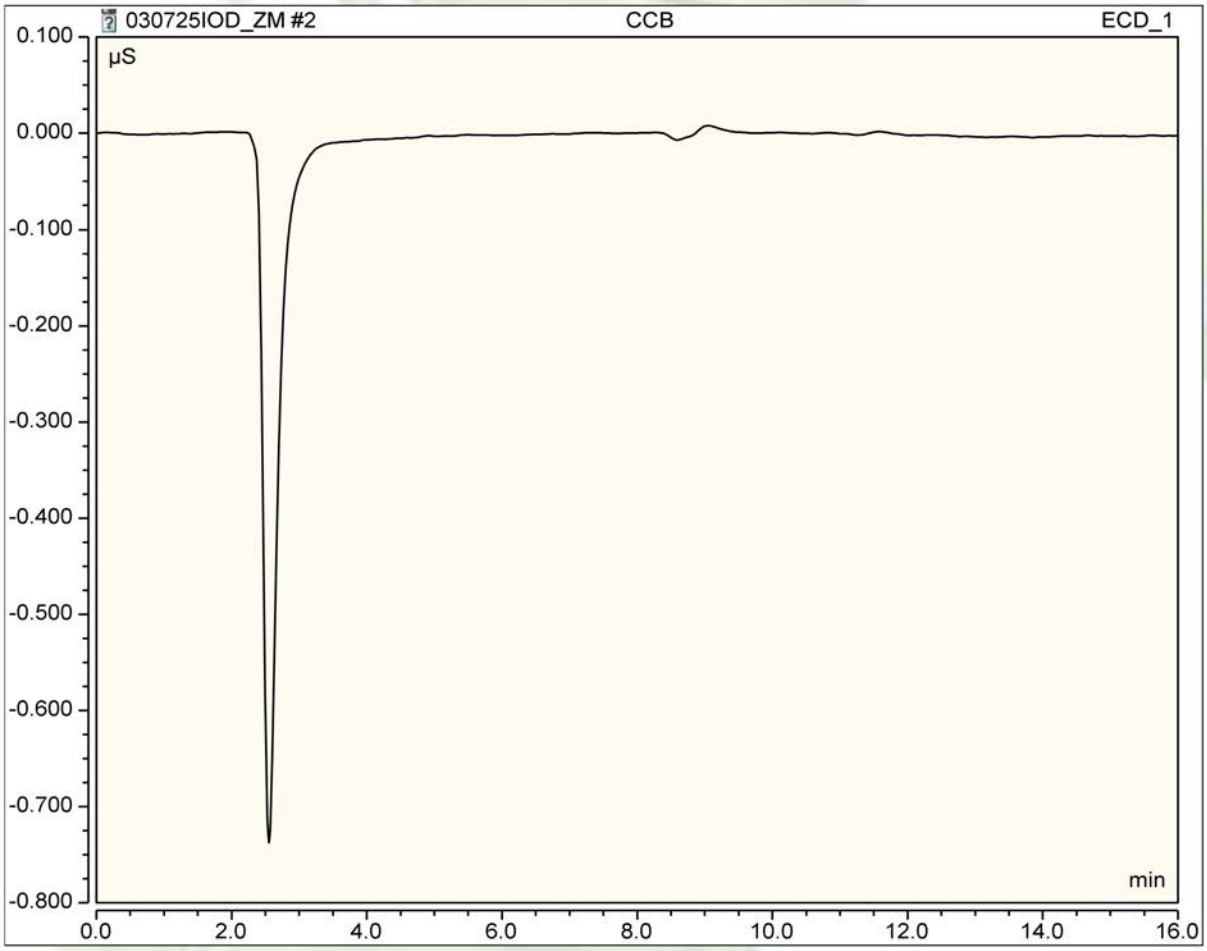
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.63	**Iodide**	0.9369	0.034	0.077	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 11:20**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

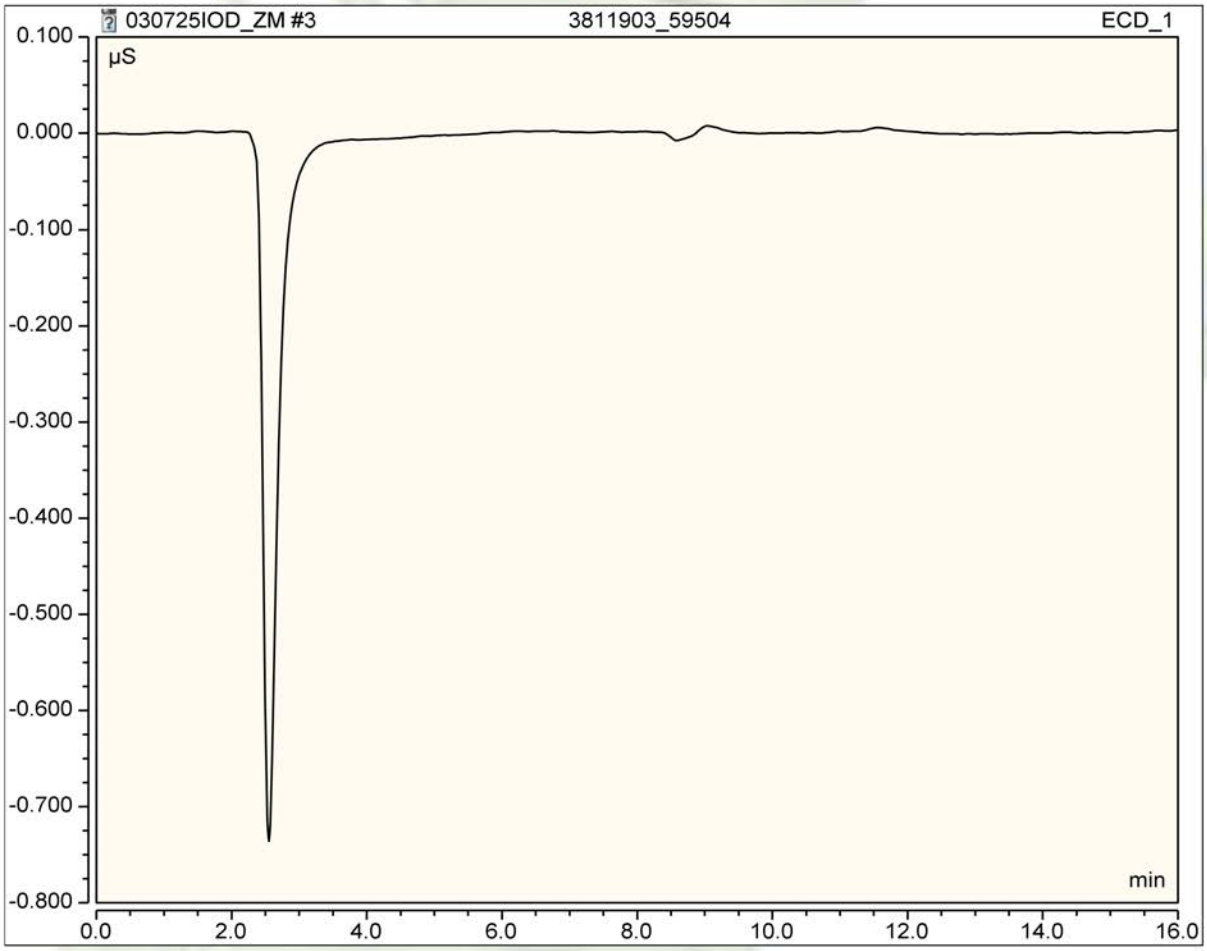
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3811903_59504
340111

Sample Name:	**3811903_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 11:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

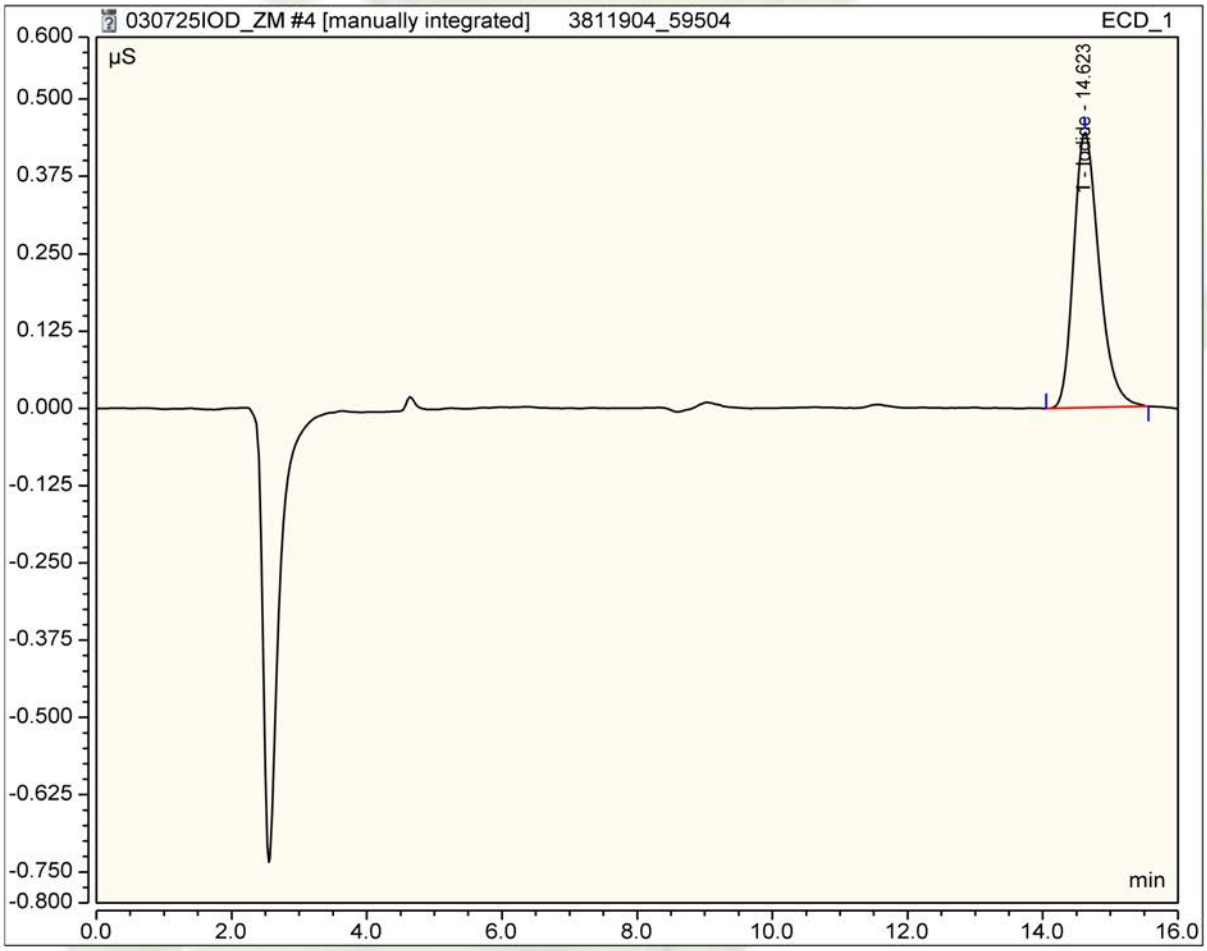
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3811904_59504
377680

Sample Name:	**3811904_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 11:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

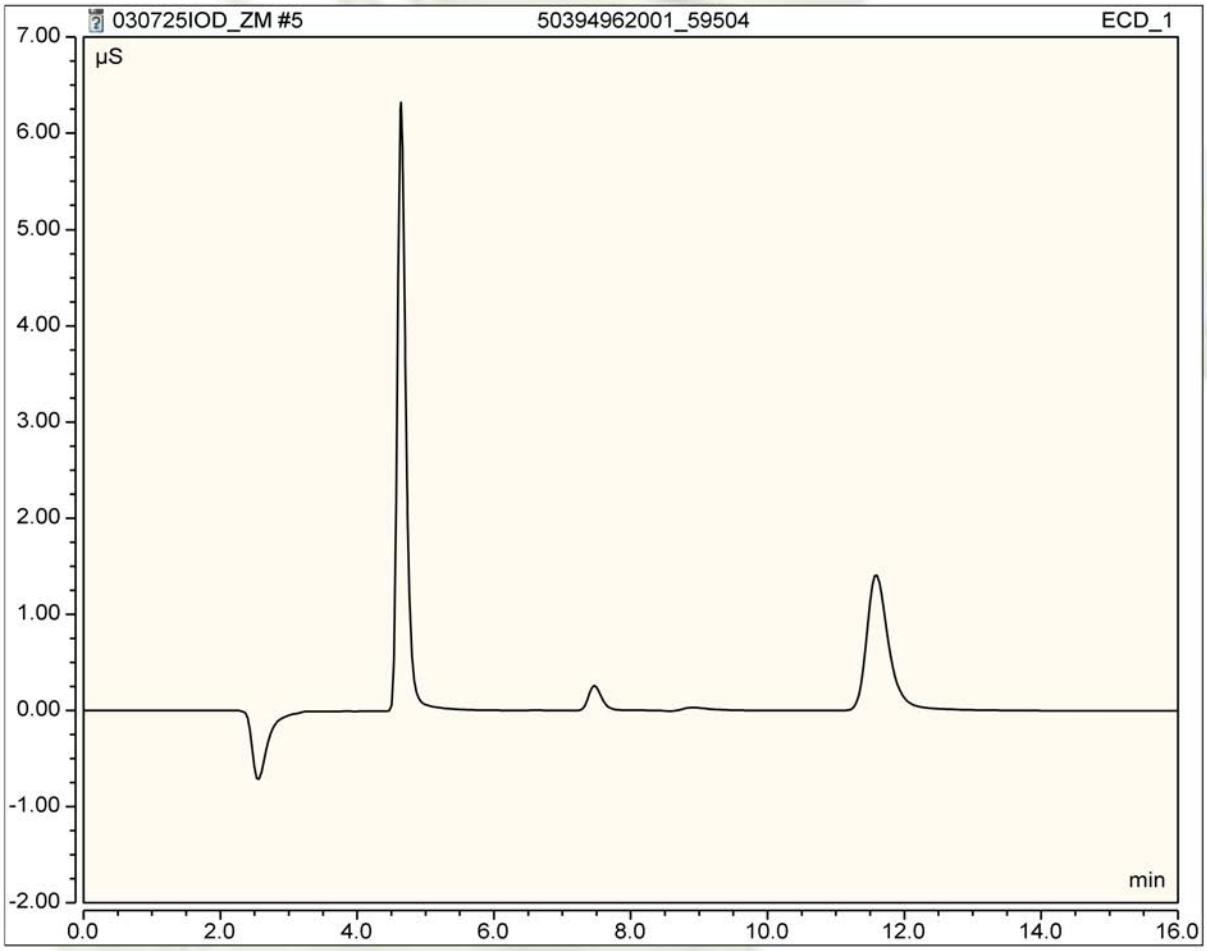
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	5.5852	0.195	0.445	BMB*



50394962001_59504

Sample Name:	**50394962001_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 15:59**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

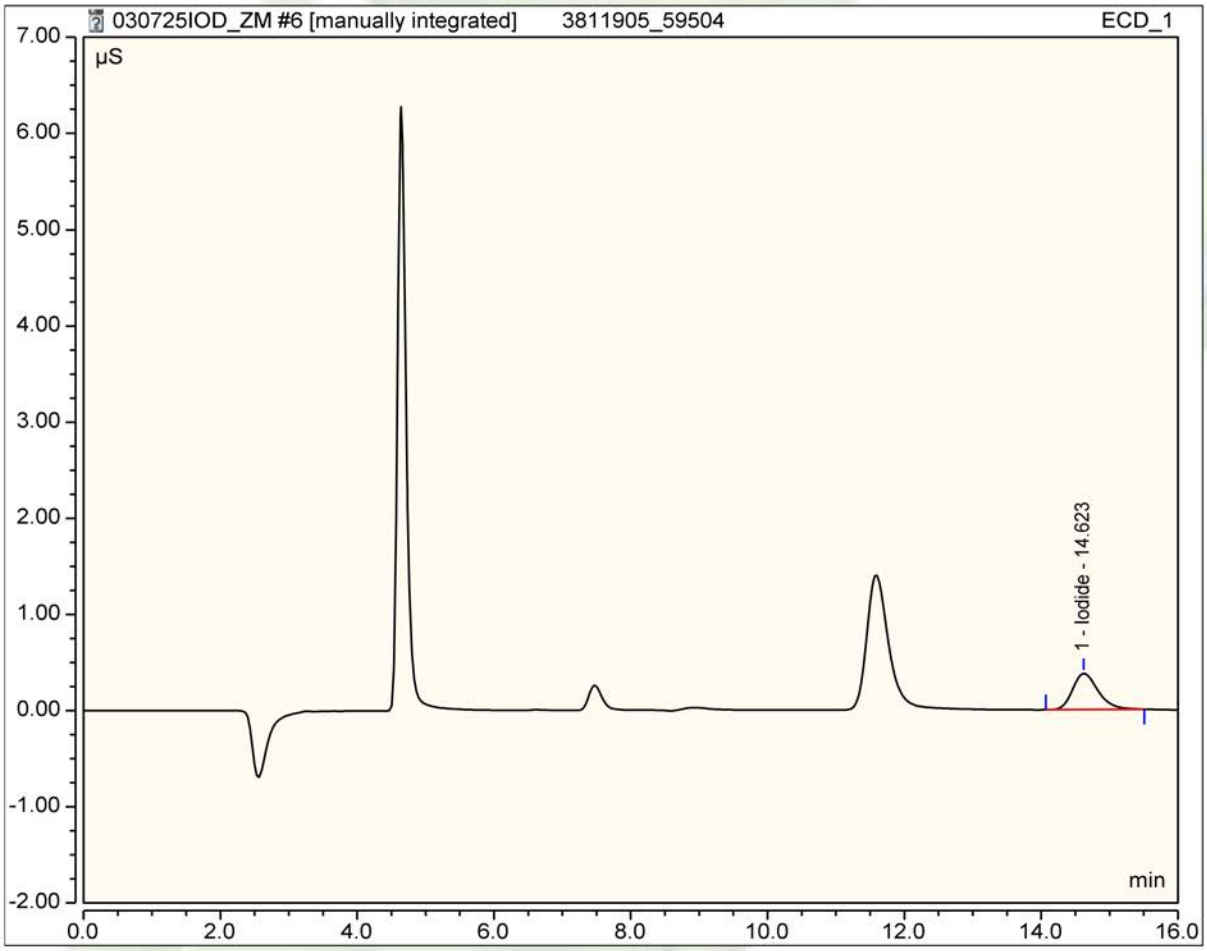
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3811905_59504
377680

Sample Name:	**3811905_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 16:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

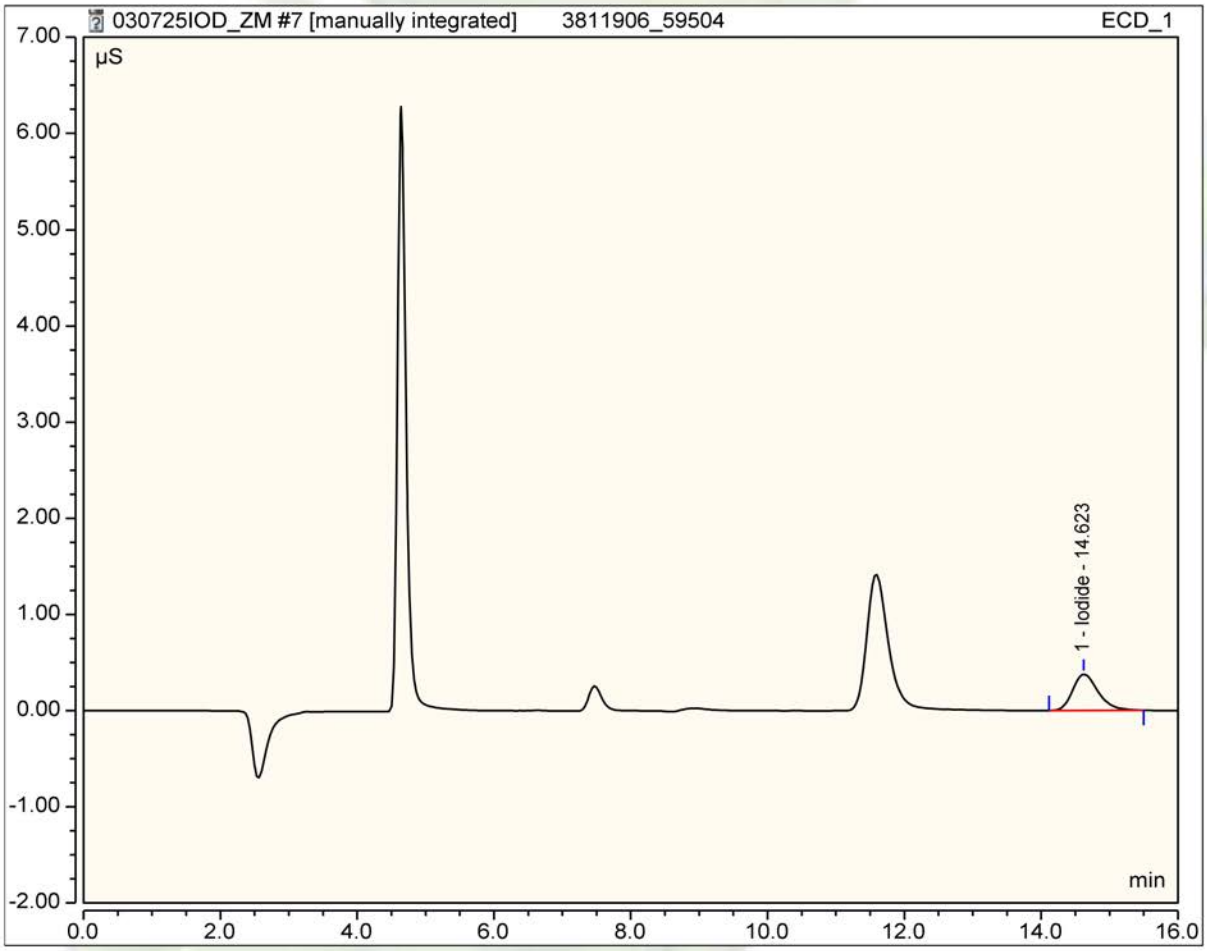
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	4.6473	0.162	0.375	BMB*



3811906_59504
377680

Sample Name:	**3811906_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 16:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

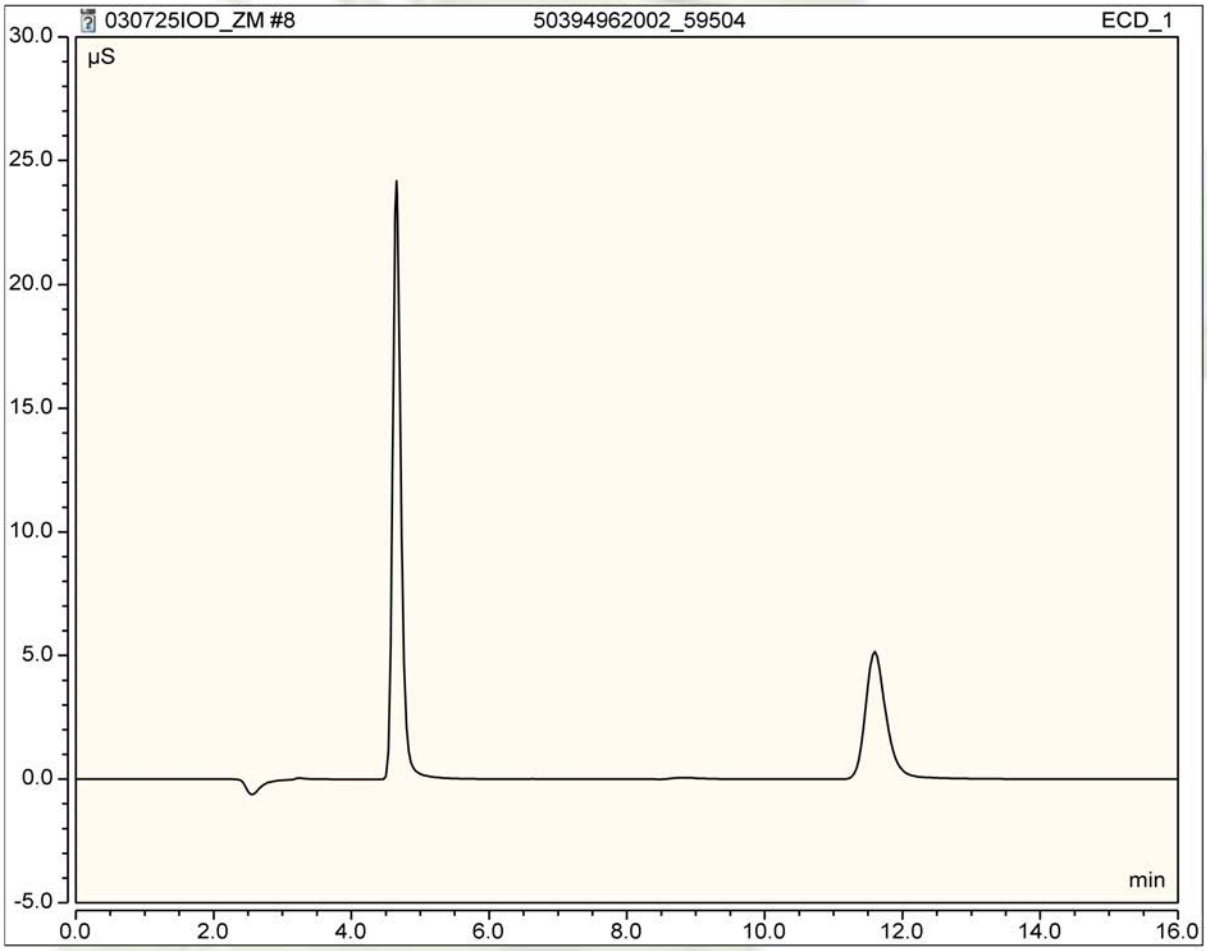
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	4.6430	0.162	0.375	BMB*



50394962002_59504

Sample Name:	**50394962002_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 16:54**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

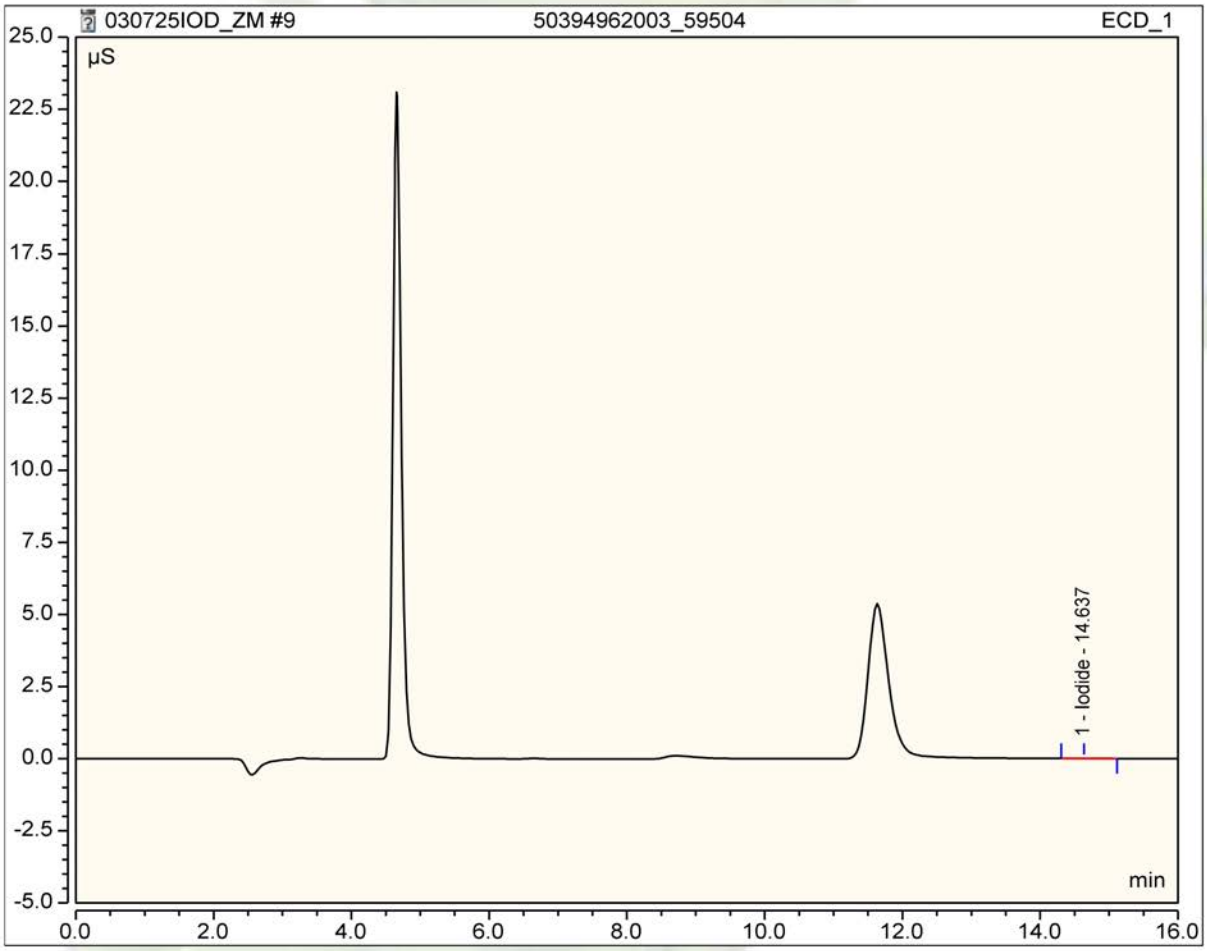
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394962003_59504

Sample Name:	**50394962003_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 17:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

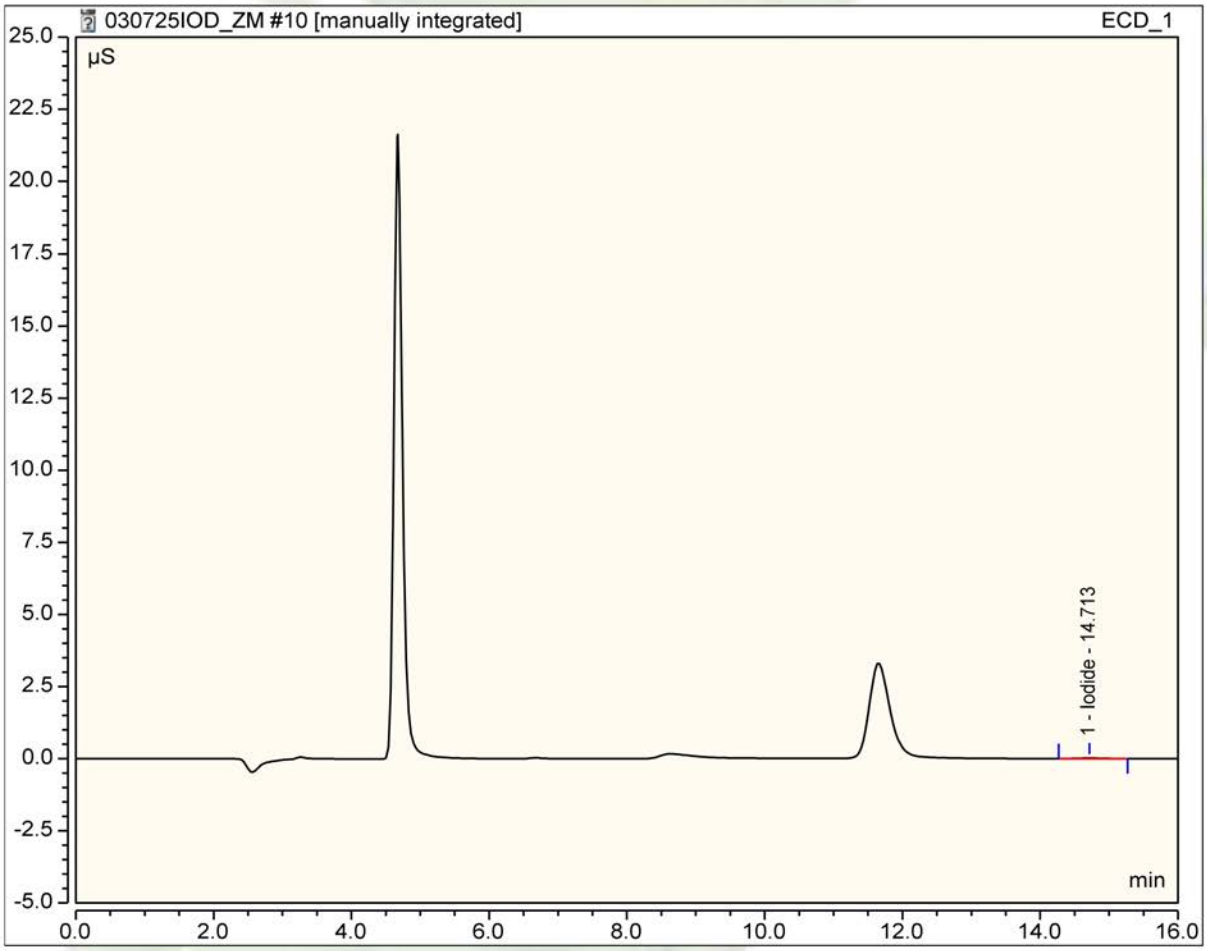
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.64	**Iodide**	0.0154	0.002	0.006	BMB



50394962004_59504

Sample Name:	**50394962004_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 17:30**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

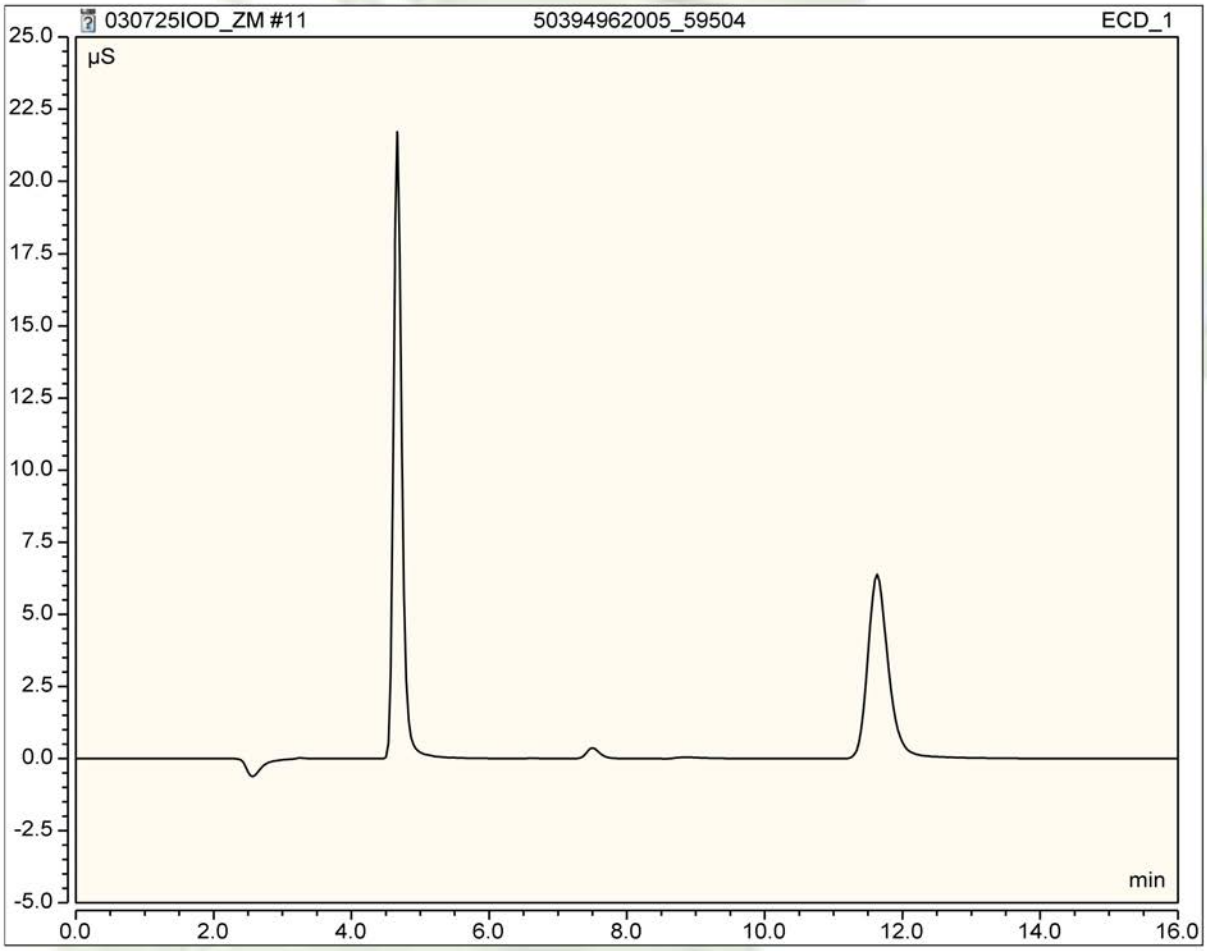
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.71	**Iodide**	0.1681	0.007	0.018	BMB*



50394962005_59504

Sample Name:	**50394962005_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 17:48**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

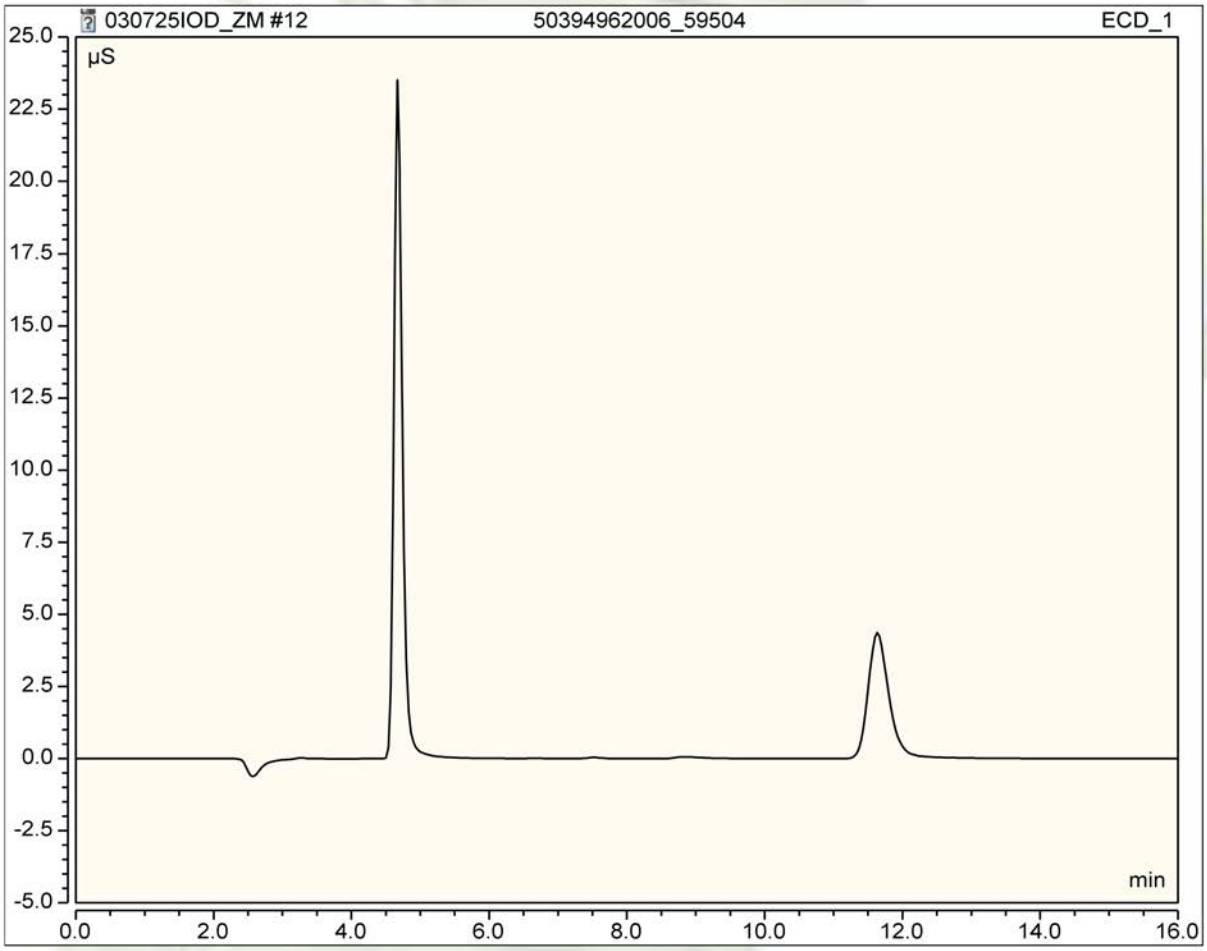
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394962006_59504

Sample Name:	**50394962006_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 18:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

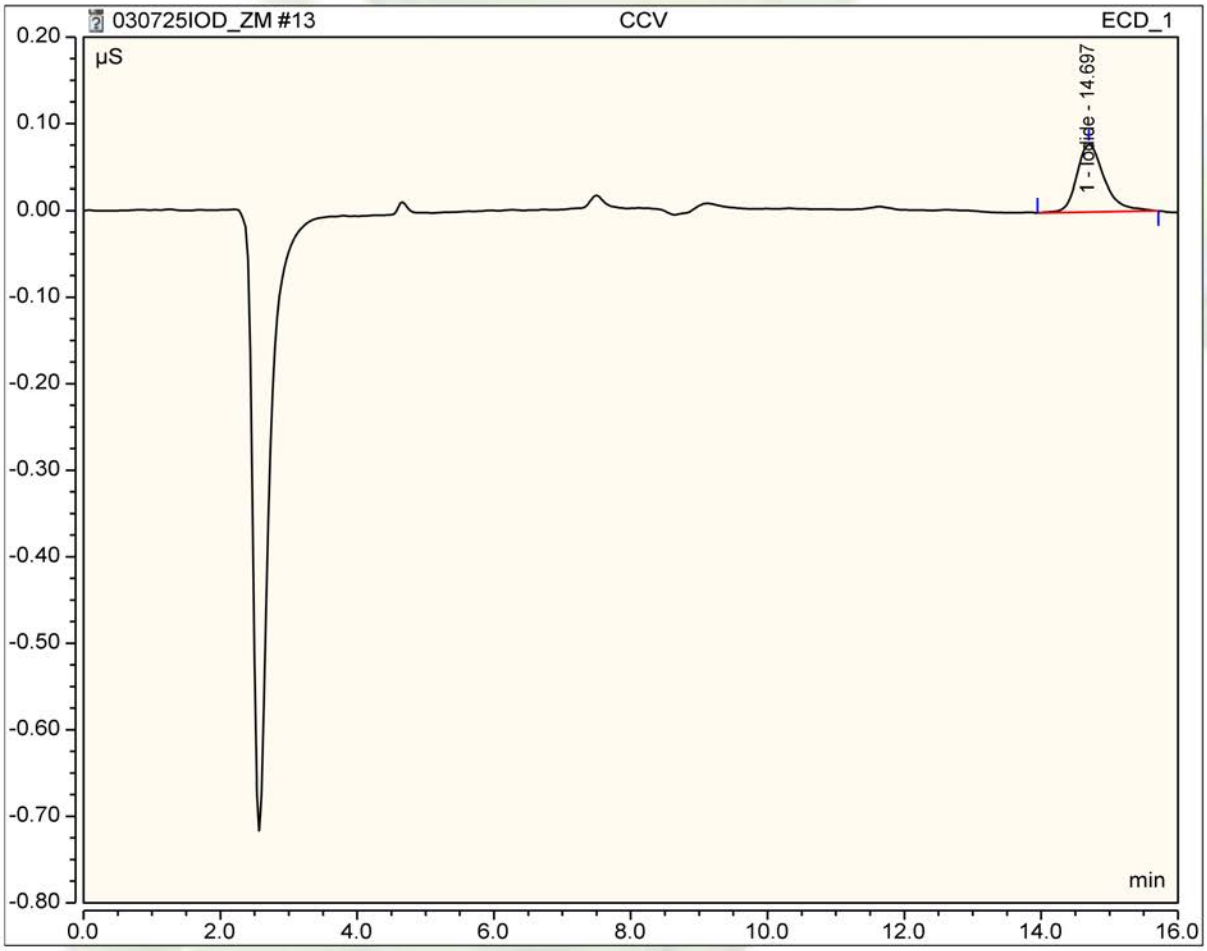
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 18:25**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

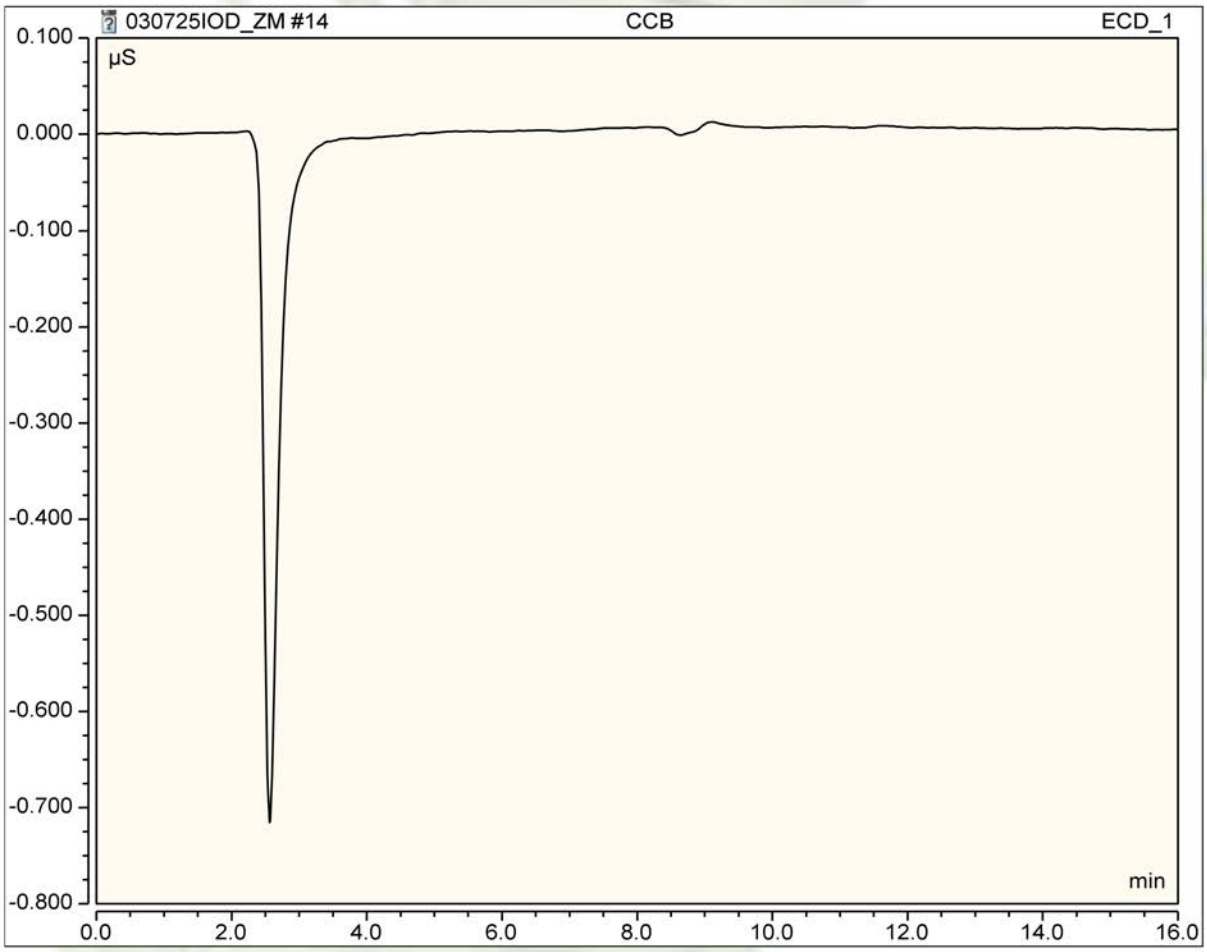
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.70	**Iodide**	1.0017	0.036	0.077	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 18:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

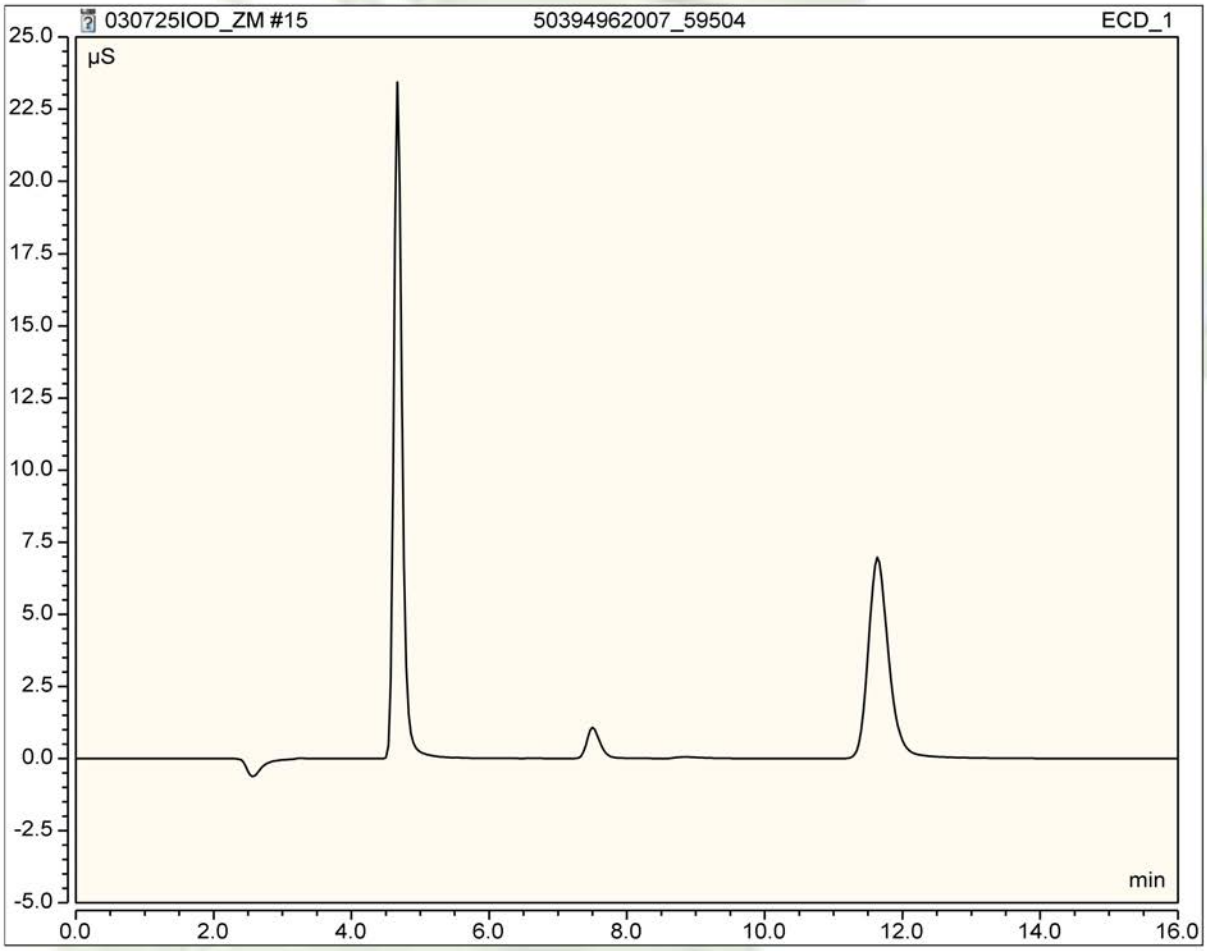
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394962007_59504

Sample Name:	**50394962007_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 19:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

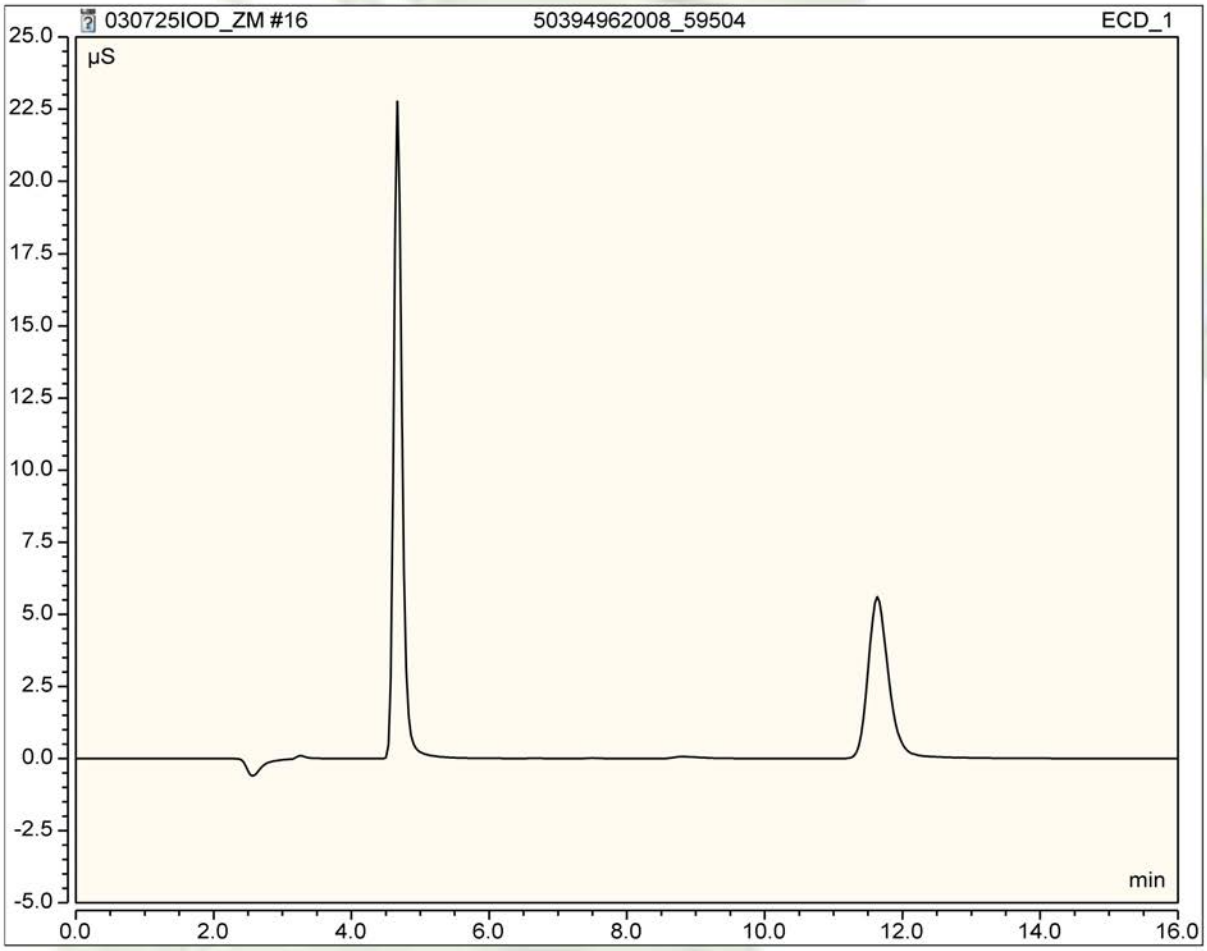
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394962008_59504

Sample Name:	**50394962008_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 19:20**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

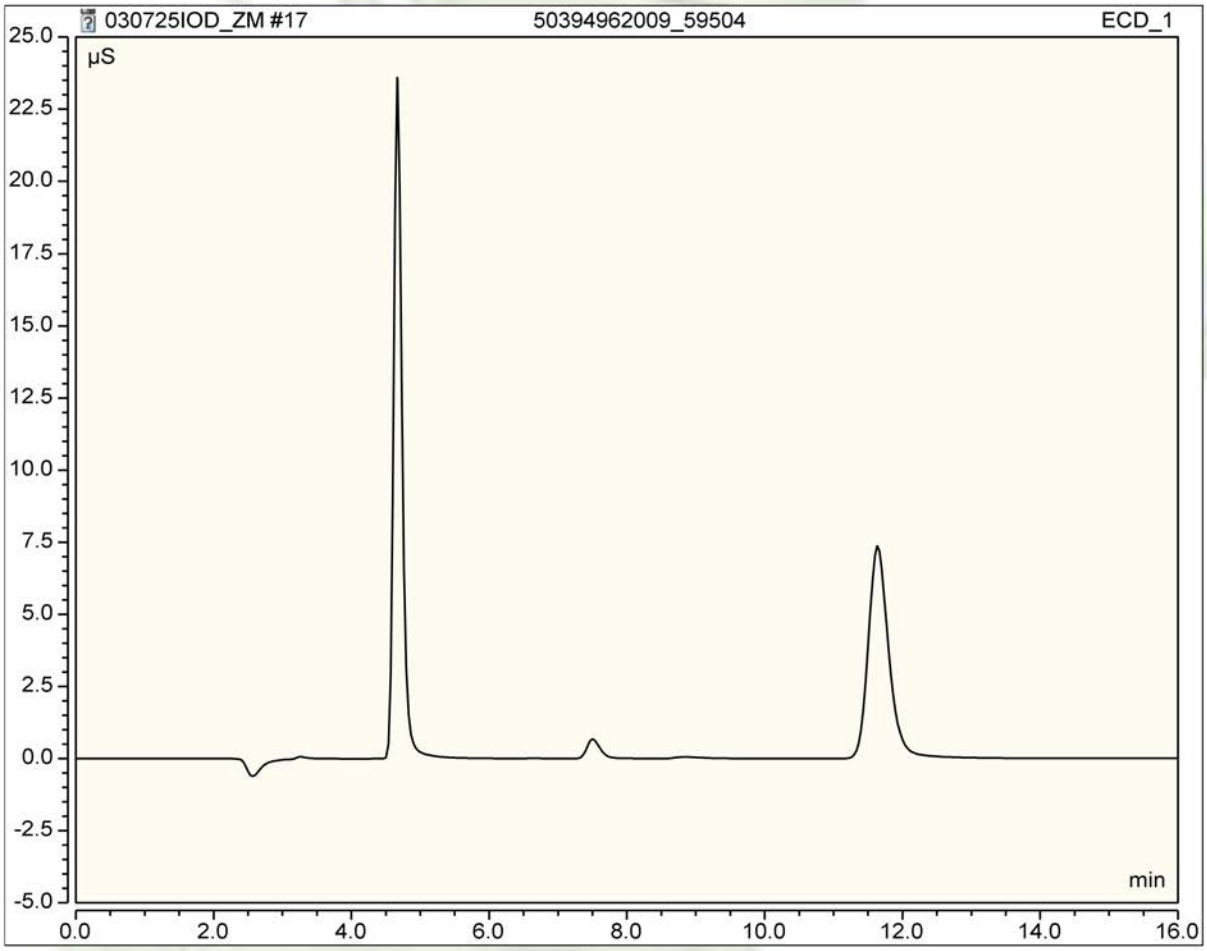
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394962009_59504

Sample Name:	**50394962009_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 19:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

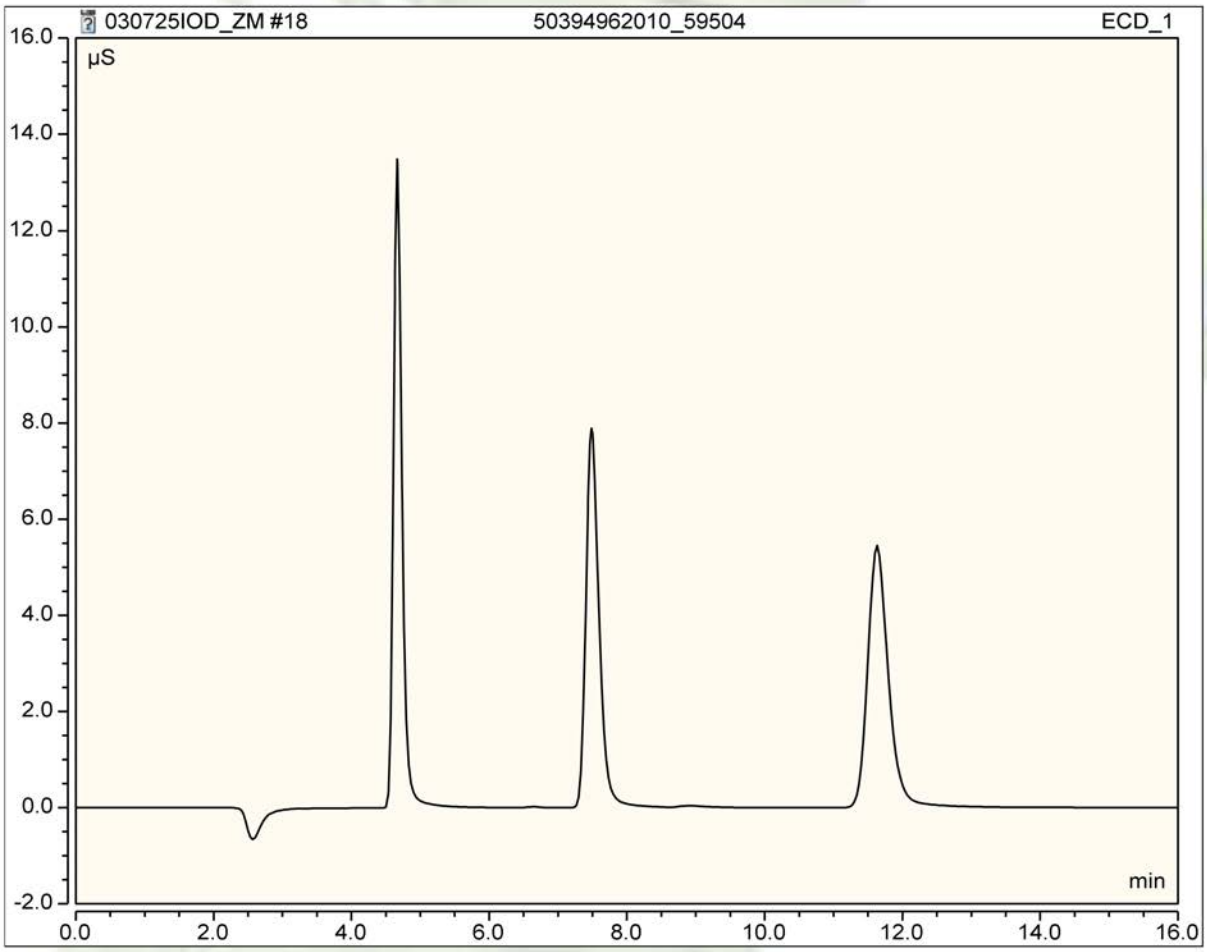
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394962010_59504

Sample Name:	**50394962010_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 19:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

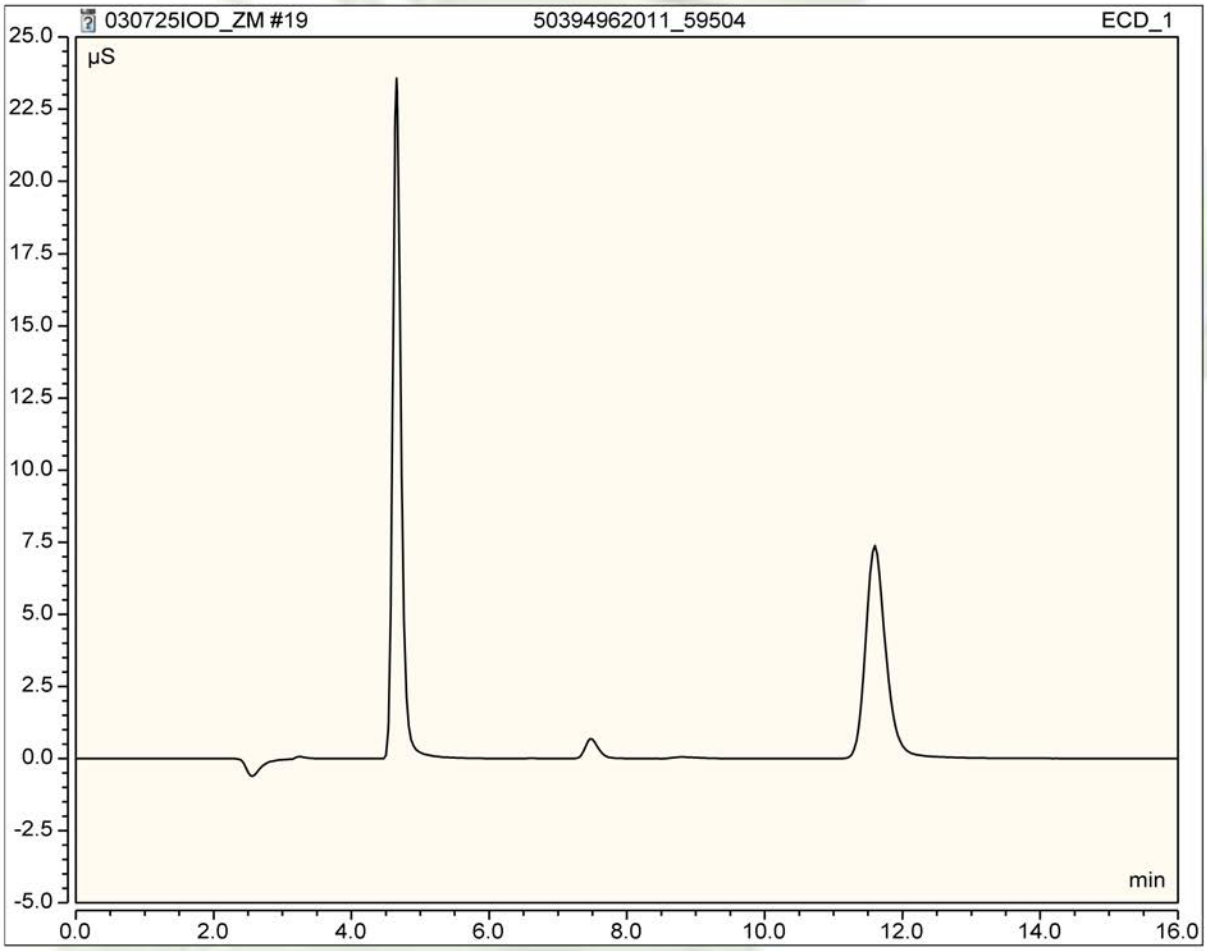
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394962011_59504

Sample Name:	**50394962011_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 20:15**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

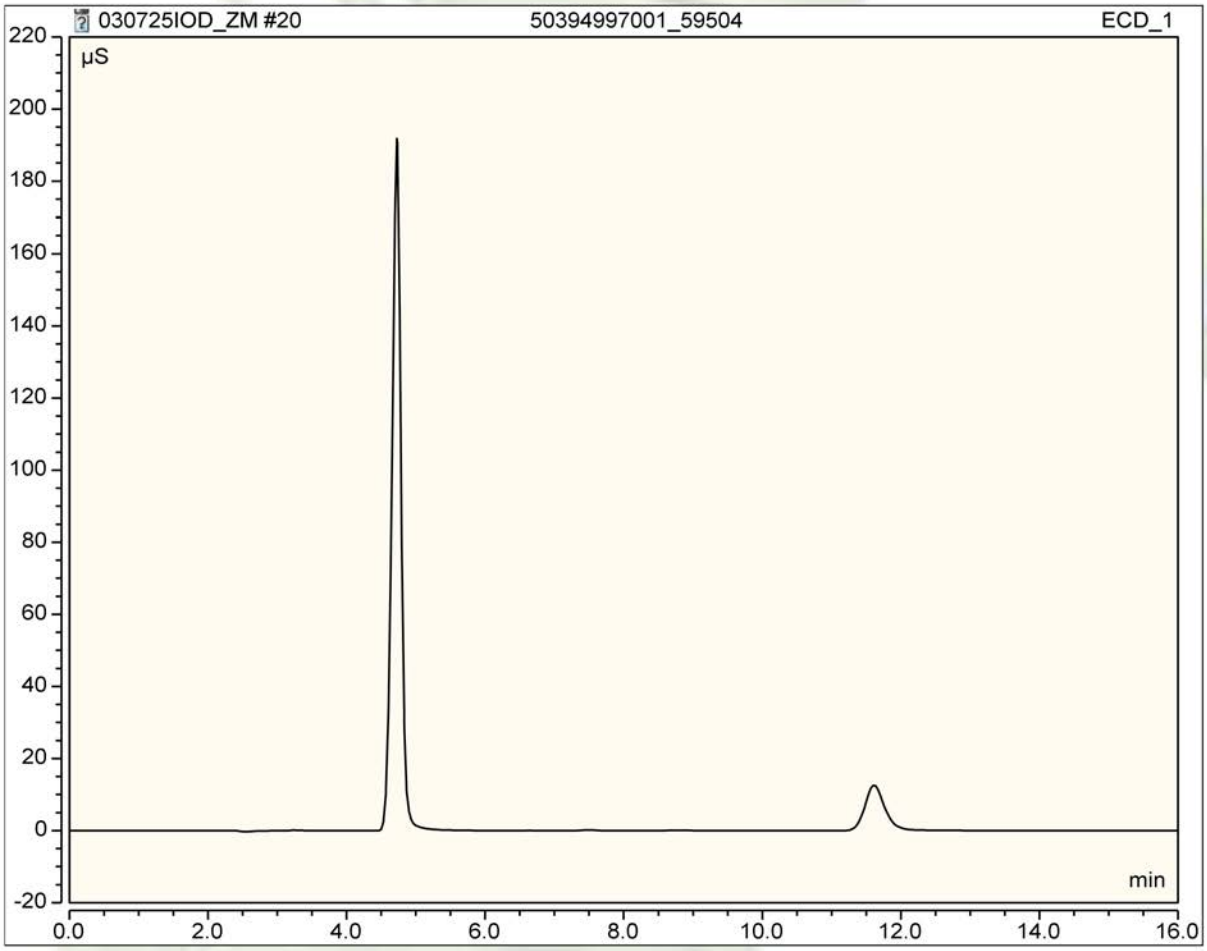
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394997001_59504

Sample Name:	**50394997001_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 20:33**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

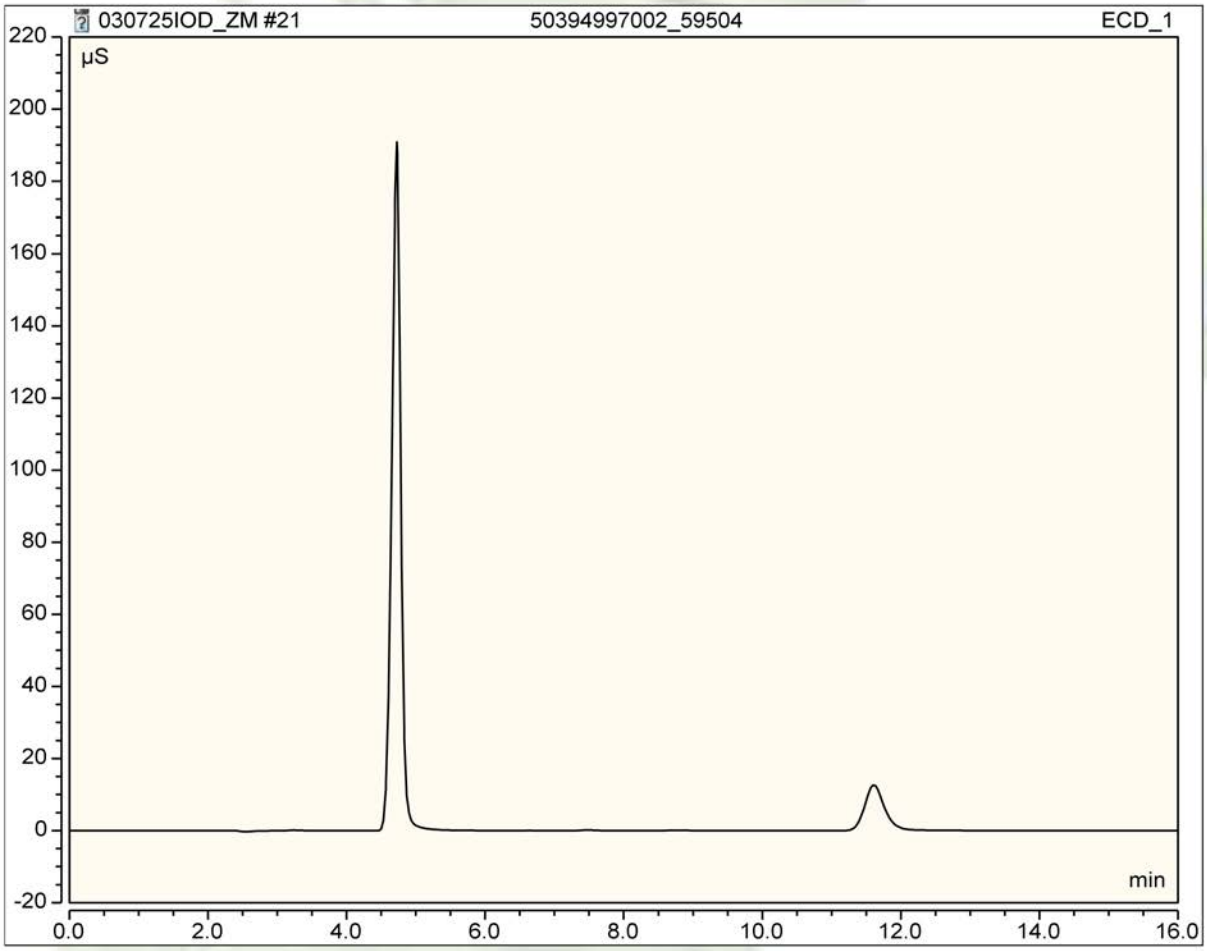
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394997002_59504

Sample Name:	**50394997002_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 20:51**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

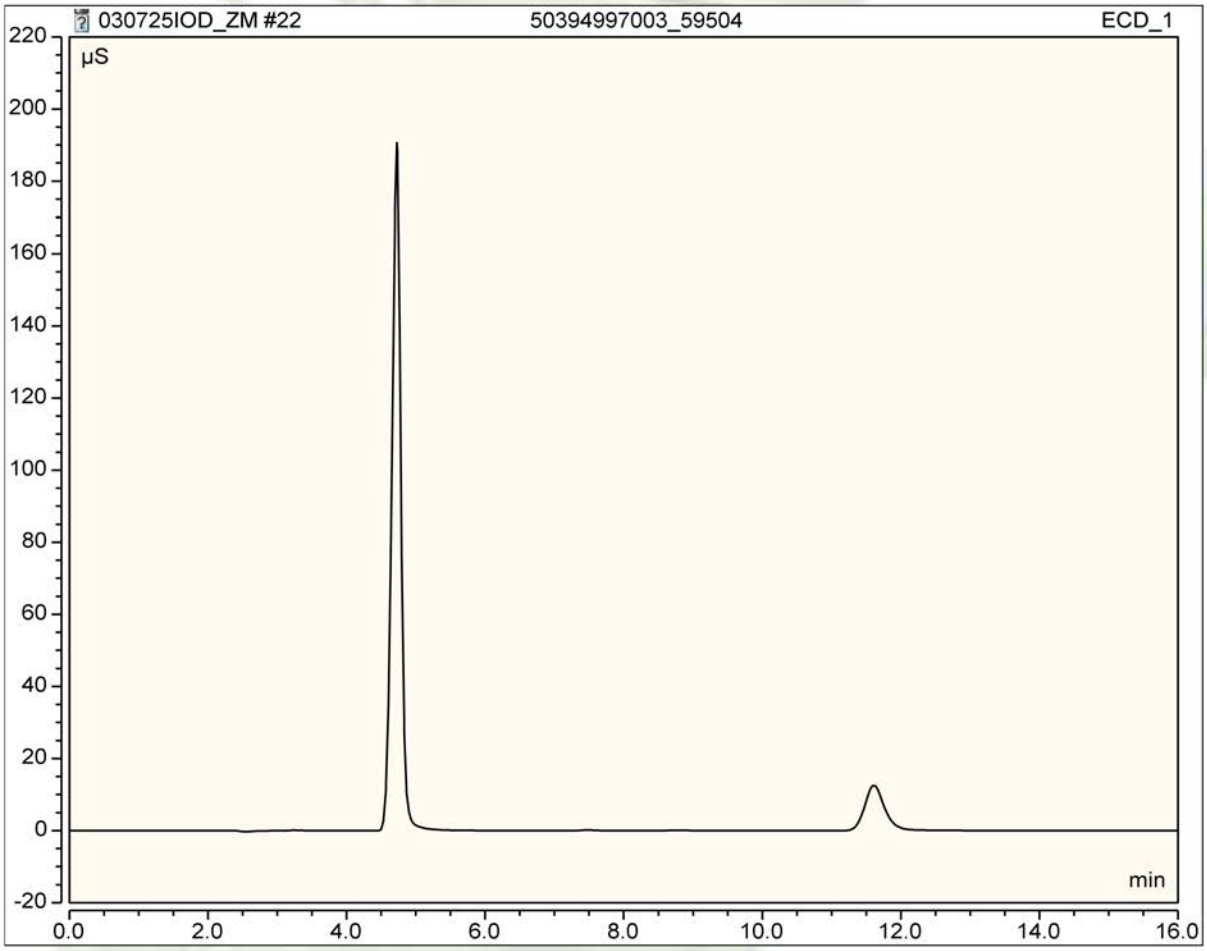
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394997003_59504

Sample Name:	**50394997003_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 21:10**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

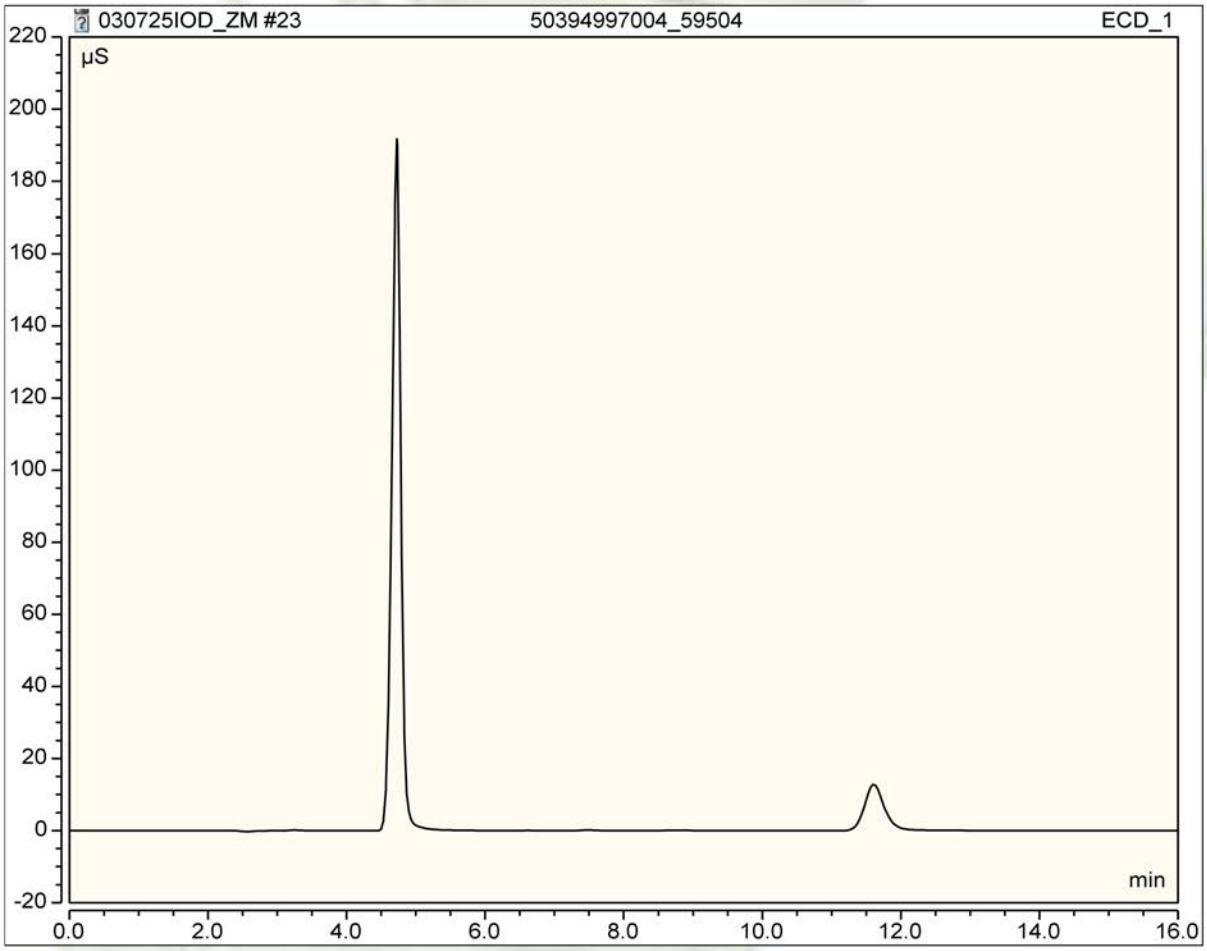
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394997004_59504

Sample Name:	**50394997004_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 21:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

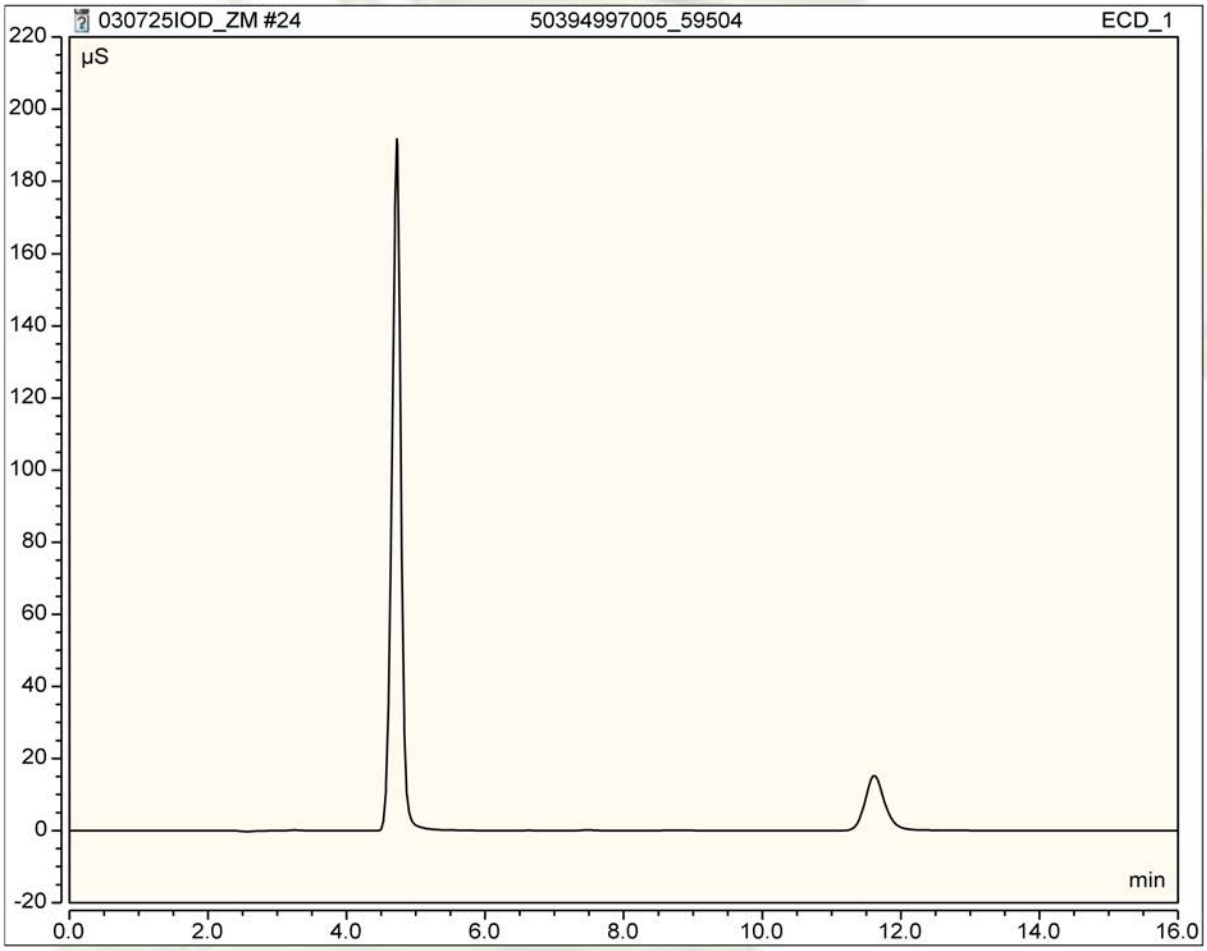
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394997005_59504

Sample Name:	**50394997005_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 21:46**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

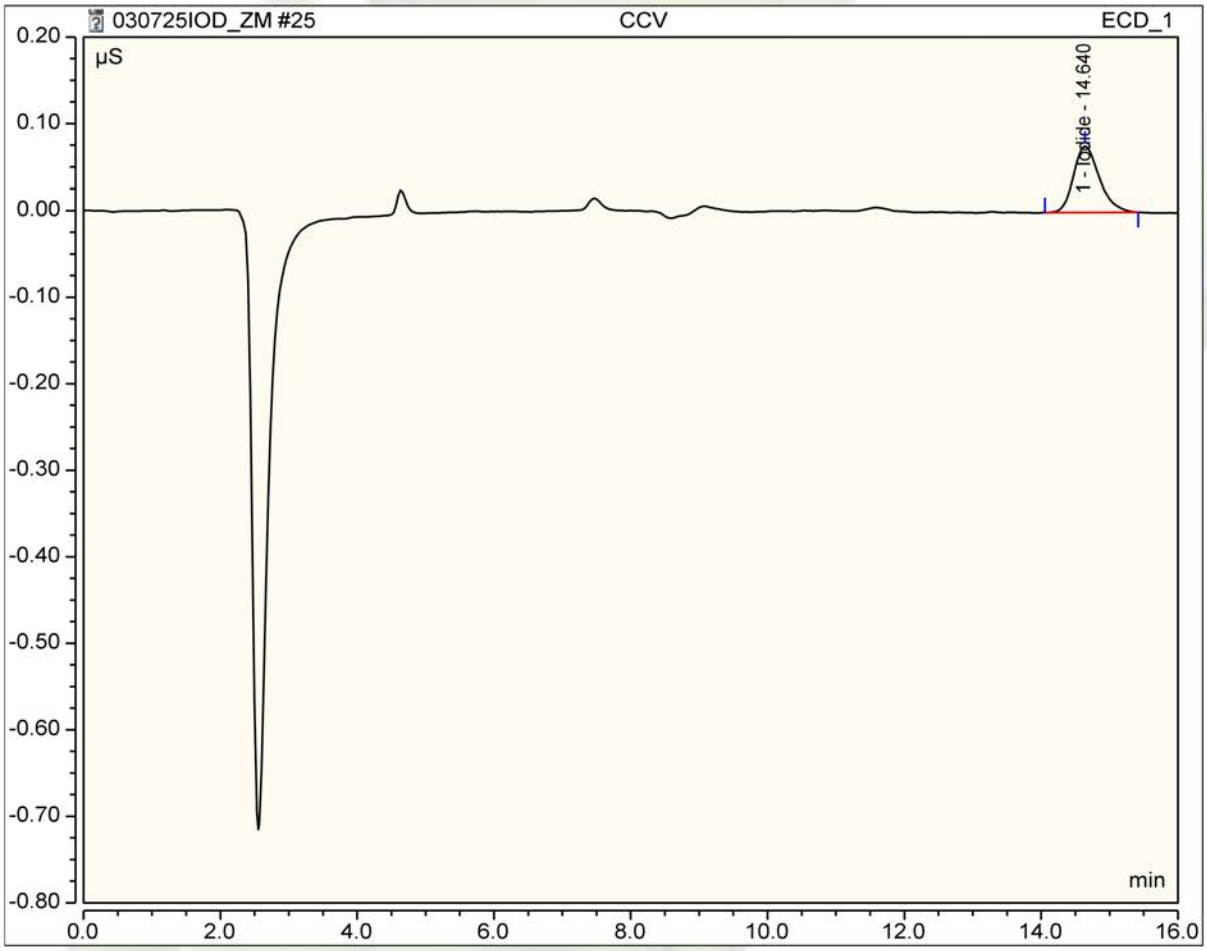
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 22:04**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

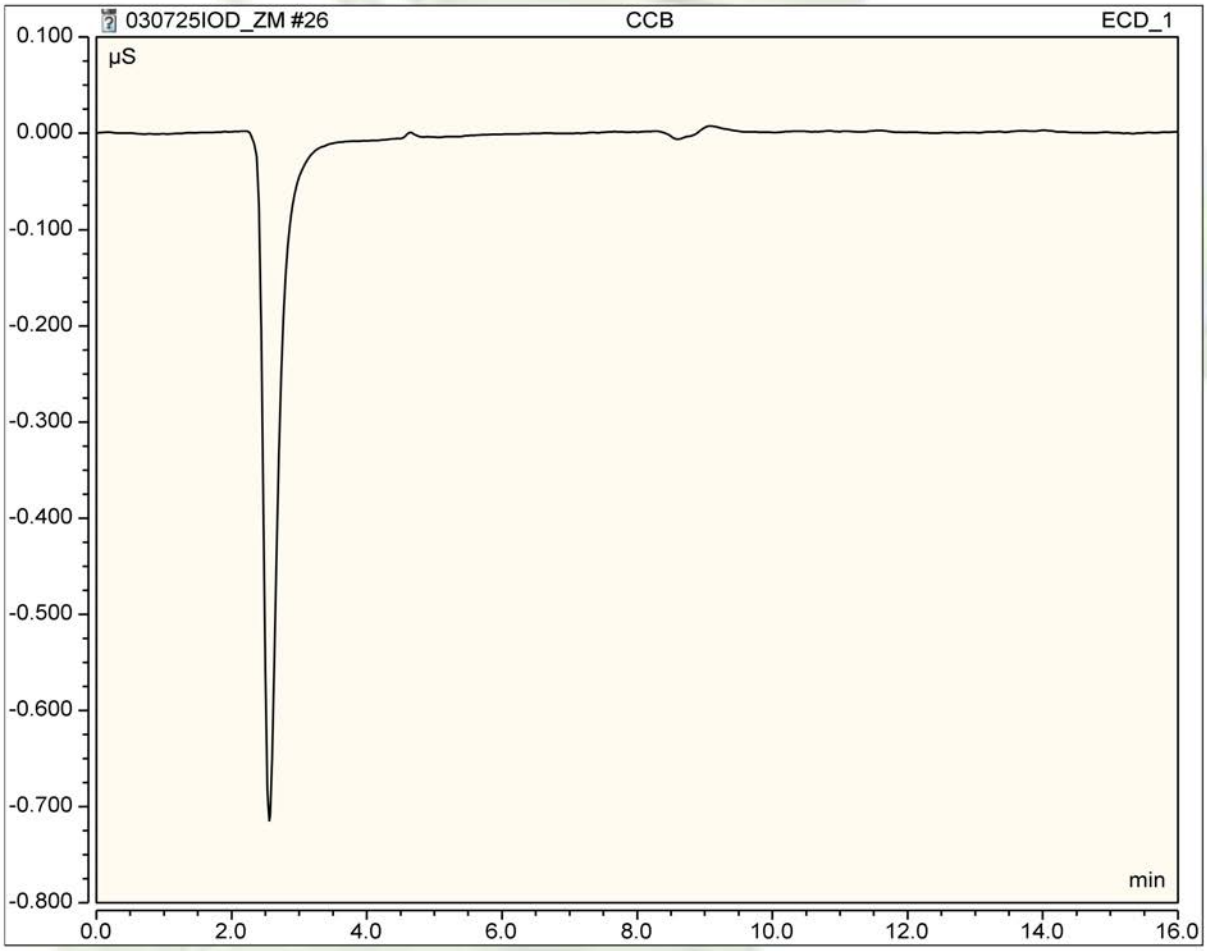
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.64	**Iodide**	0.9208	0.033	0.076	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 22:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

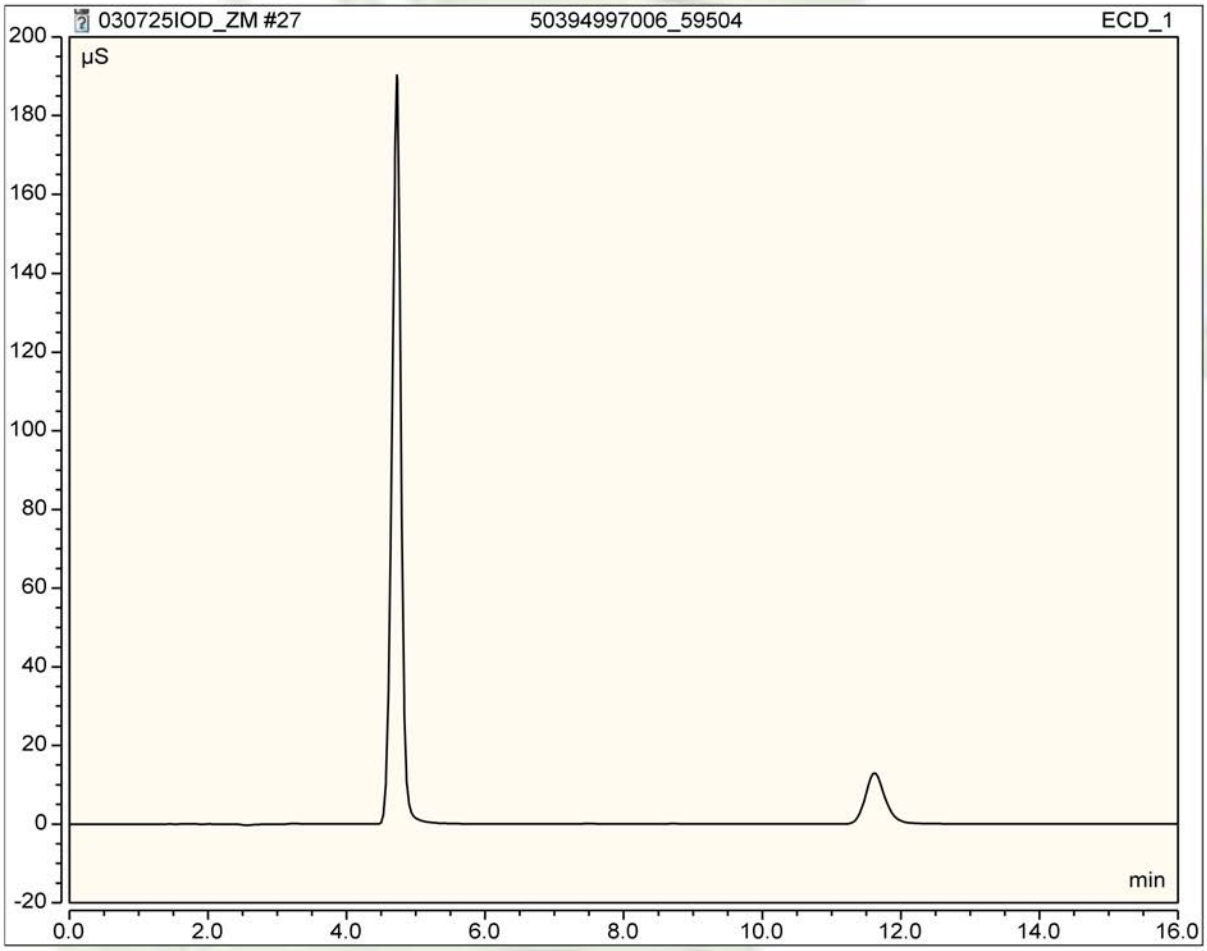
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50394997006_59504

Sample Name:	**50394997006_59504**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 22:41**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

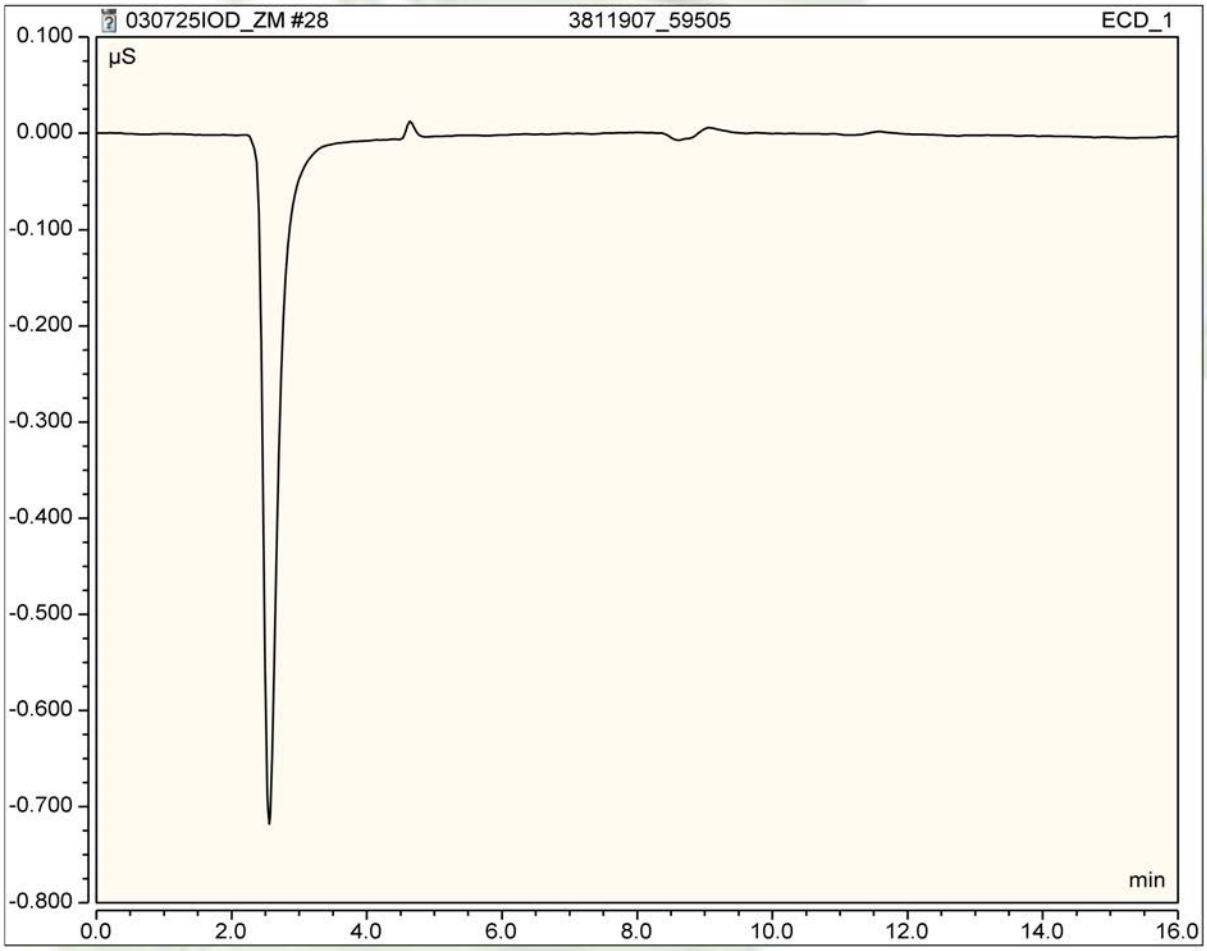
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3811907_59505
340111

Sample Name:	**3811907_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 22:59**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

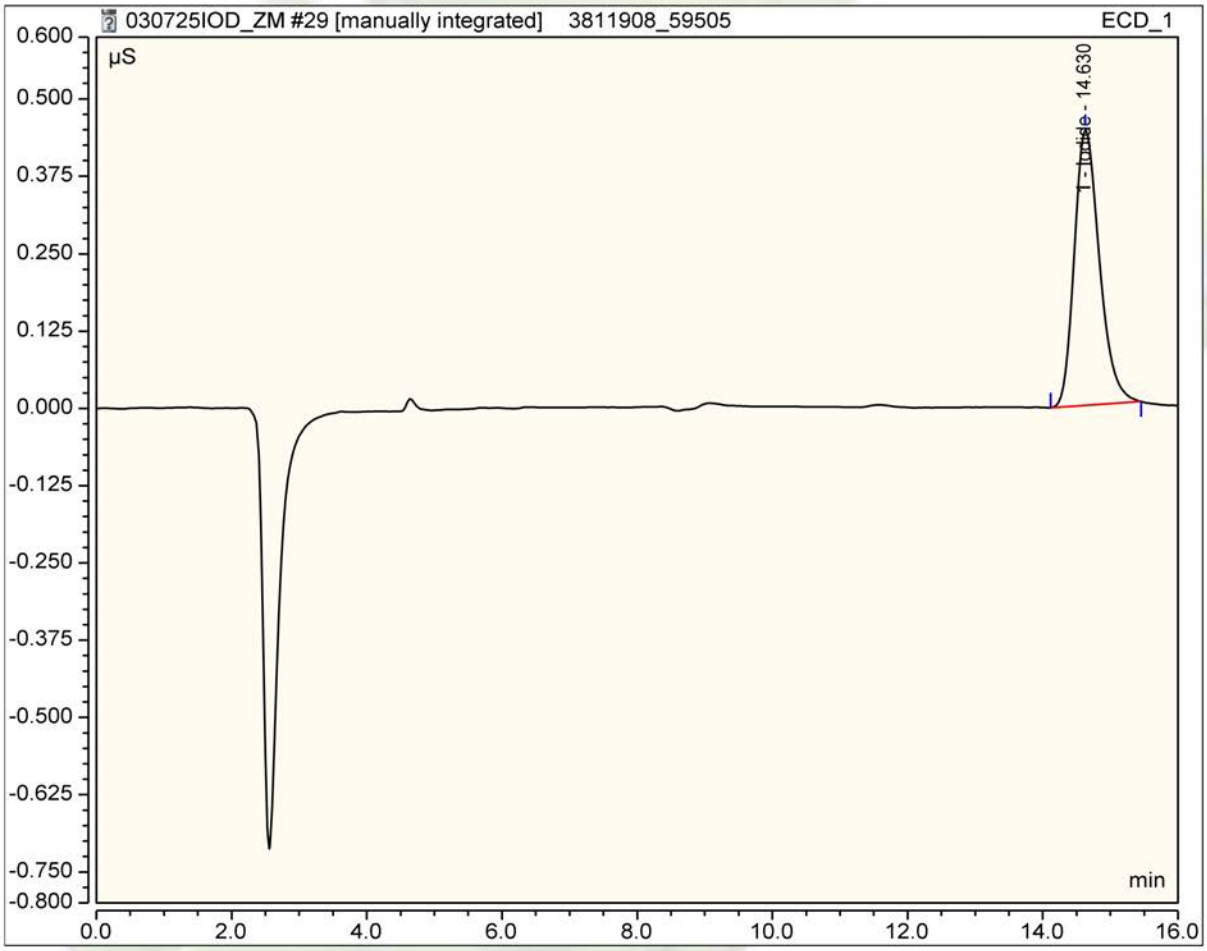
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3811908_59505
377680

Sample Name:	**3811908_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 23:18**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

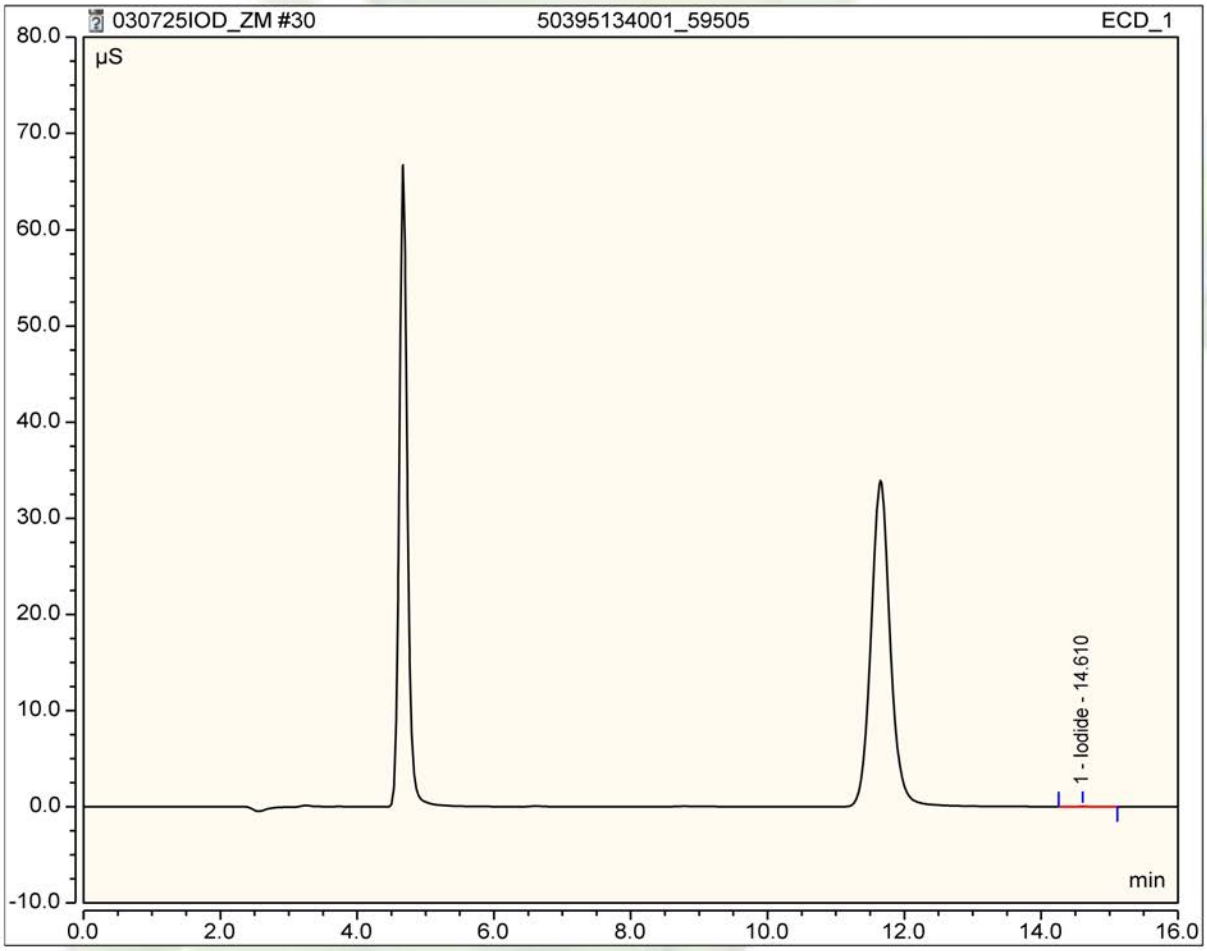
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.63	**Iodide**	5.5165	0.192	0.445	BMB*



50395134001_59505

Sample Name:	**50395134001_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 23:36**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

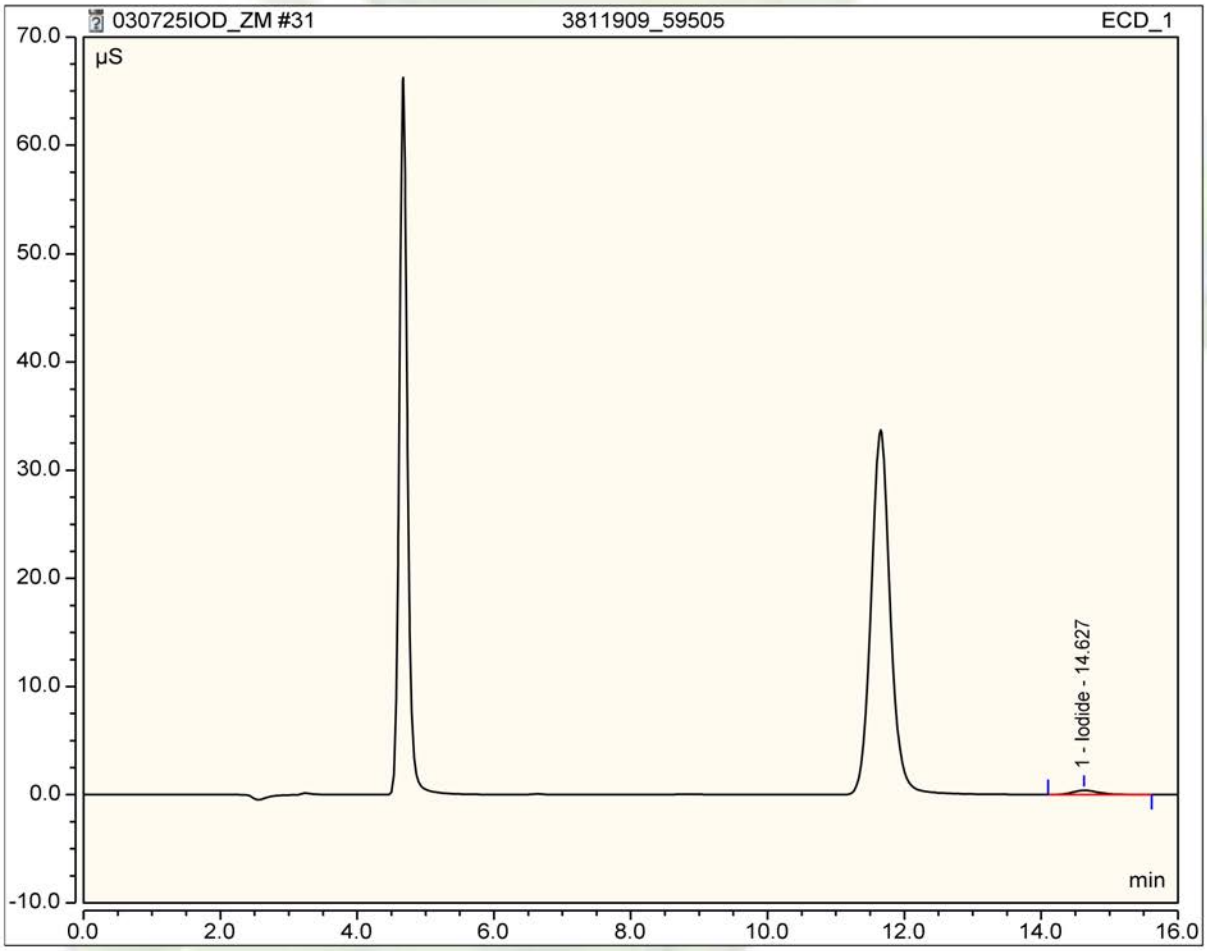
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.61	**Iodide**	0.0550	0.003	0.008	BMB



3811909_59505
377680

Sample Name:	**3811909_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/07/2025 23:54**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

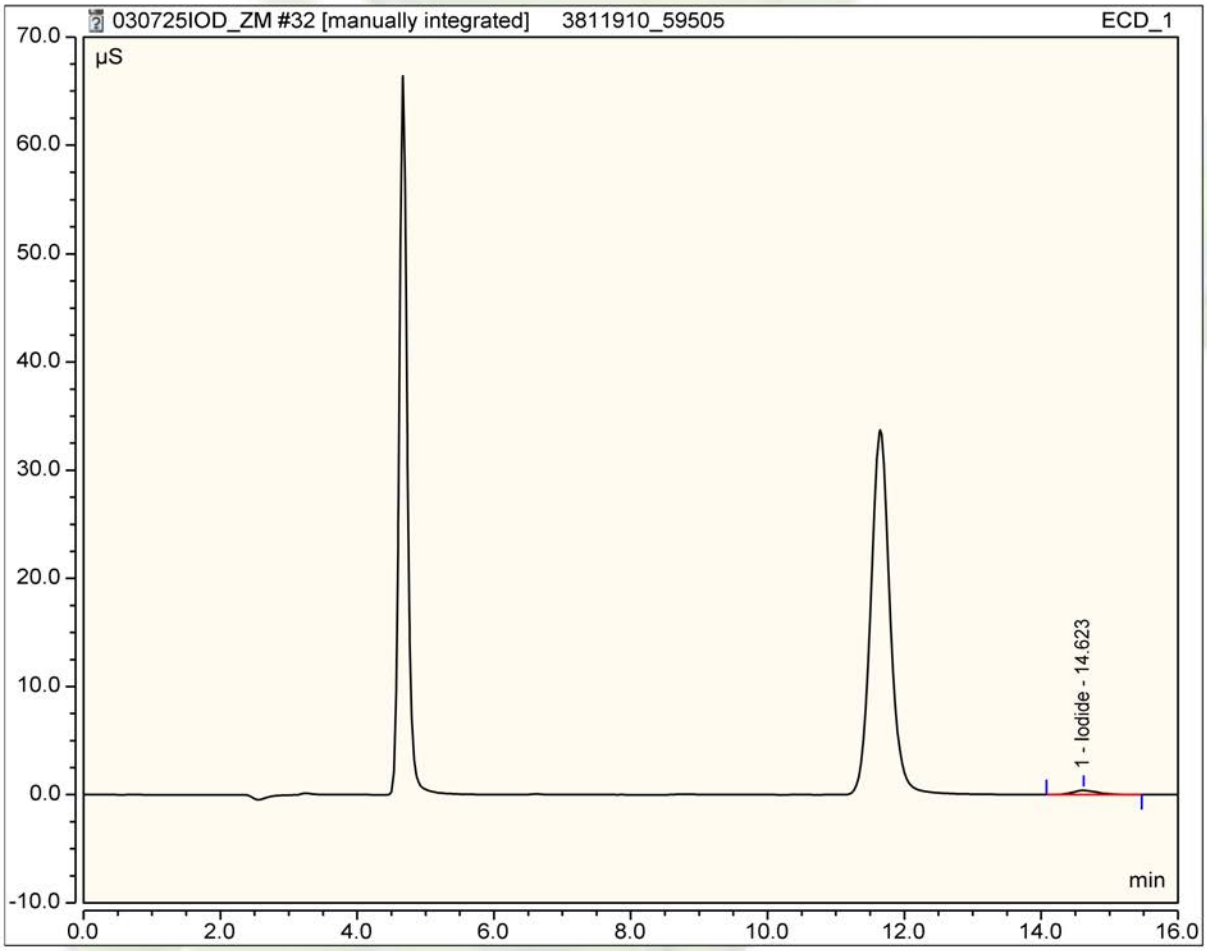
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.63	**Iodide**	4.7495	0.166	0.383	BMB



3811910_59505
377680

Sample Name:	**3811910_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 00:13**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

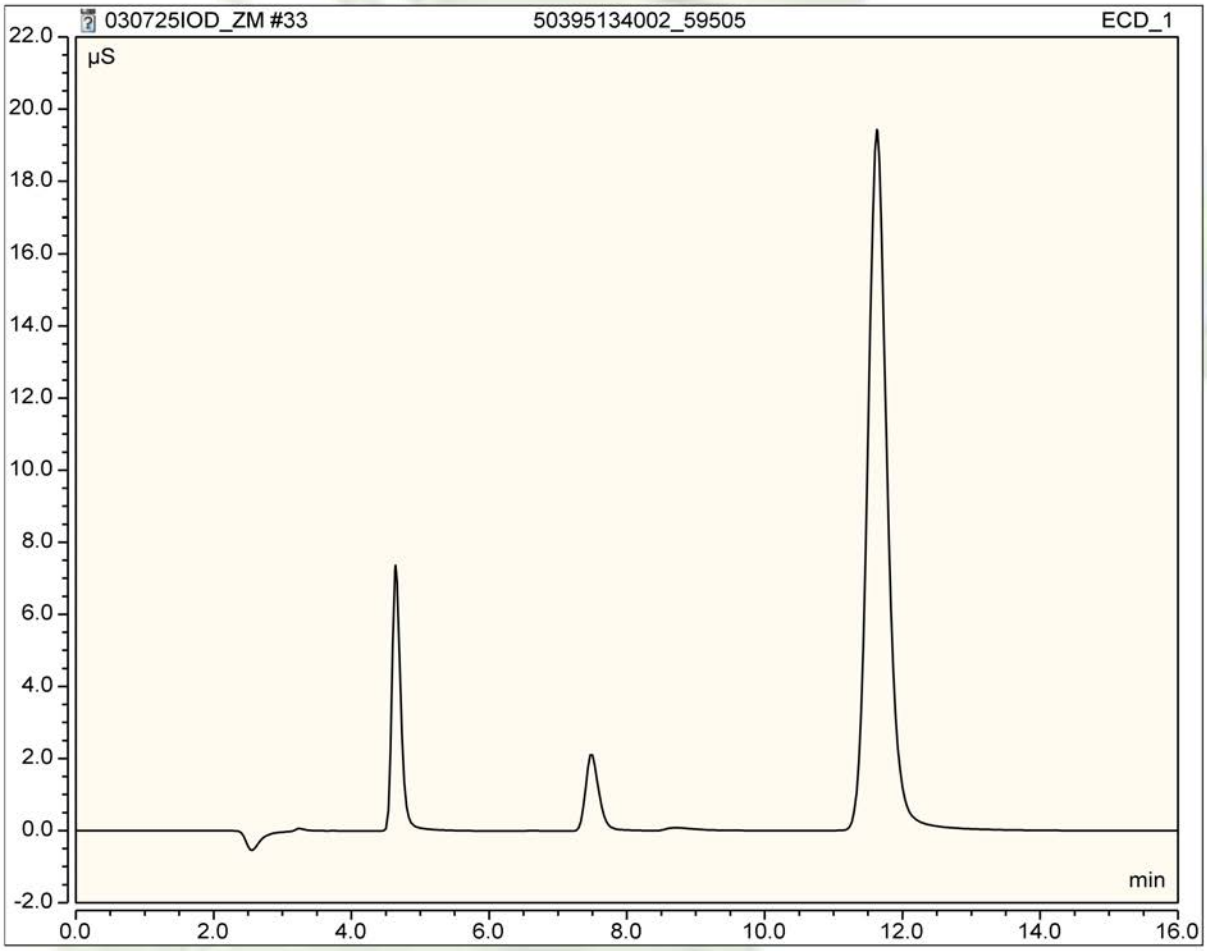
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	4.6859	0.164	0.382	BMB*



50395134002_59505

Sample Name:	**50395134002_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 00:31**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

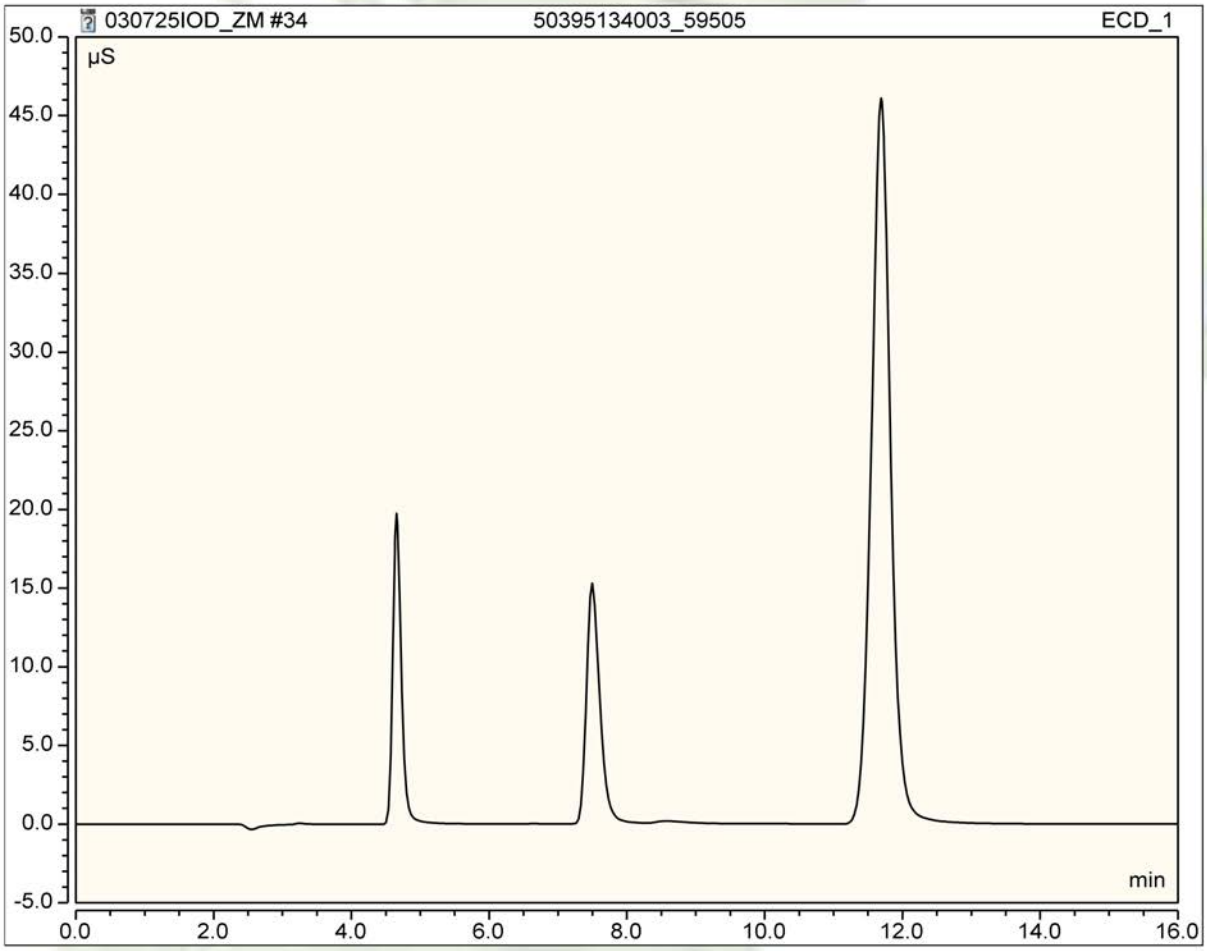
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395134003_59505

Sample Name:	**50395134003_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 00:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

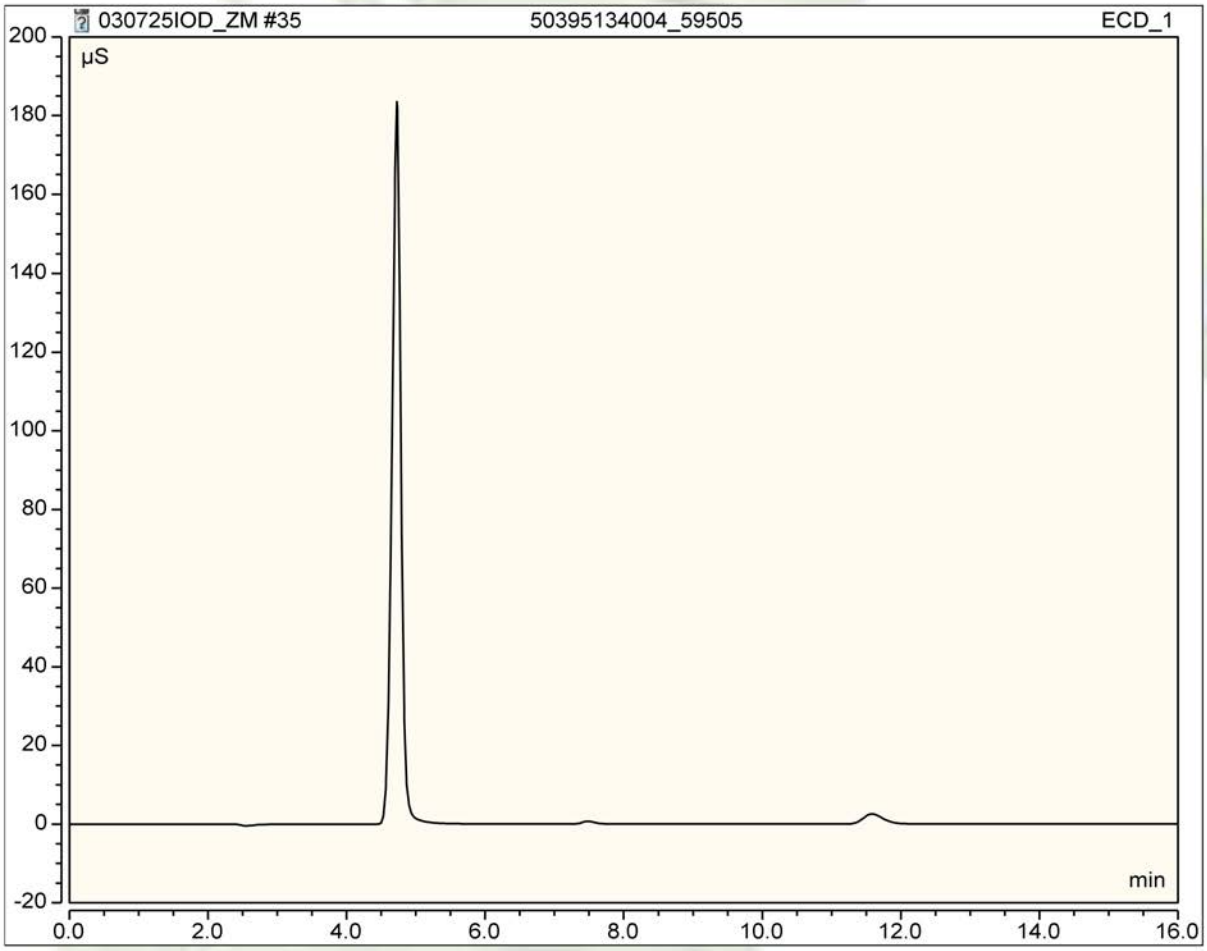
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395134004_59505

Sample Name:	**50395134004_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 01:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

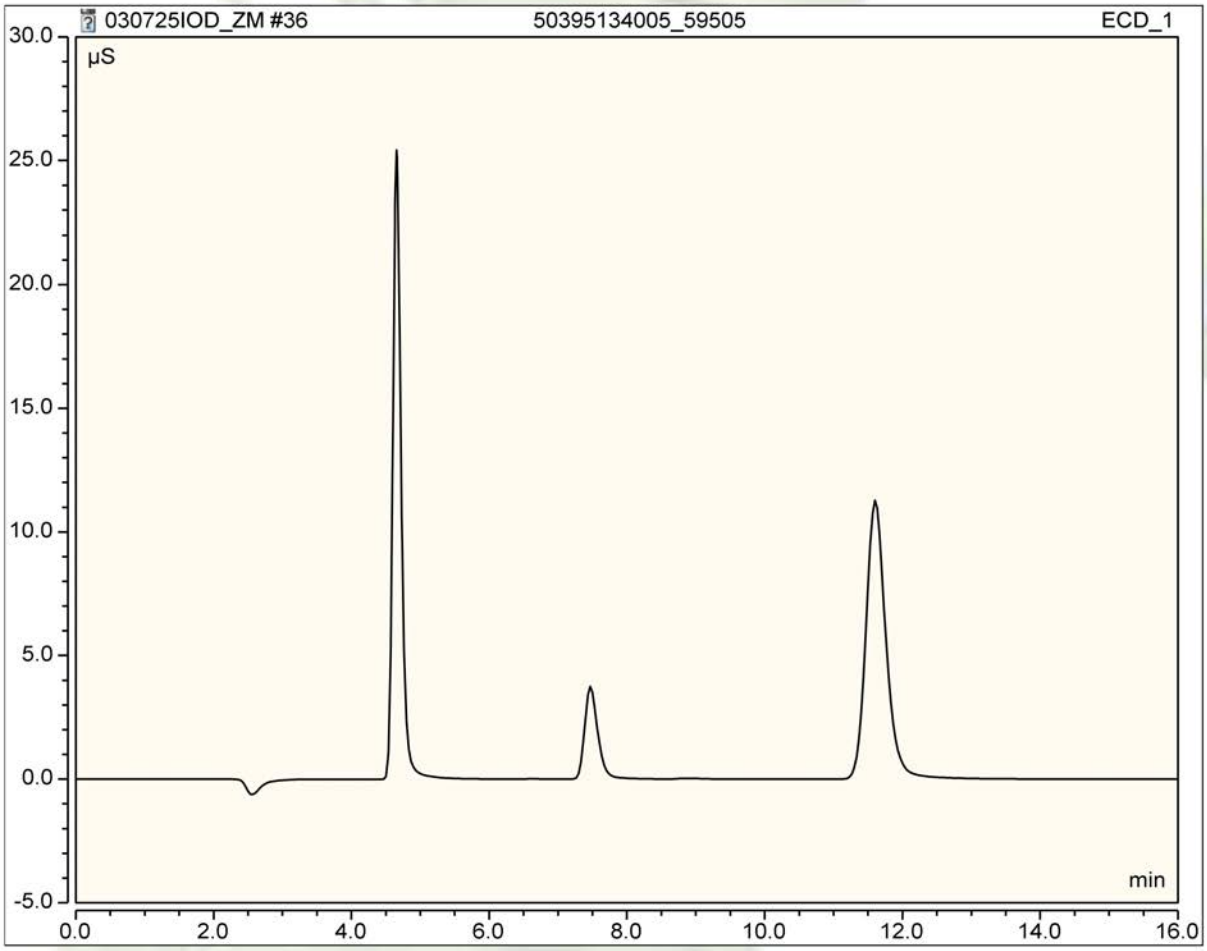
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395134005_59505

Sample Name:	**50395134005_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 01:26**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

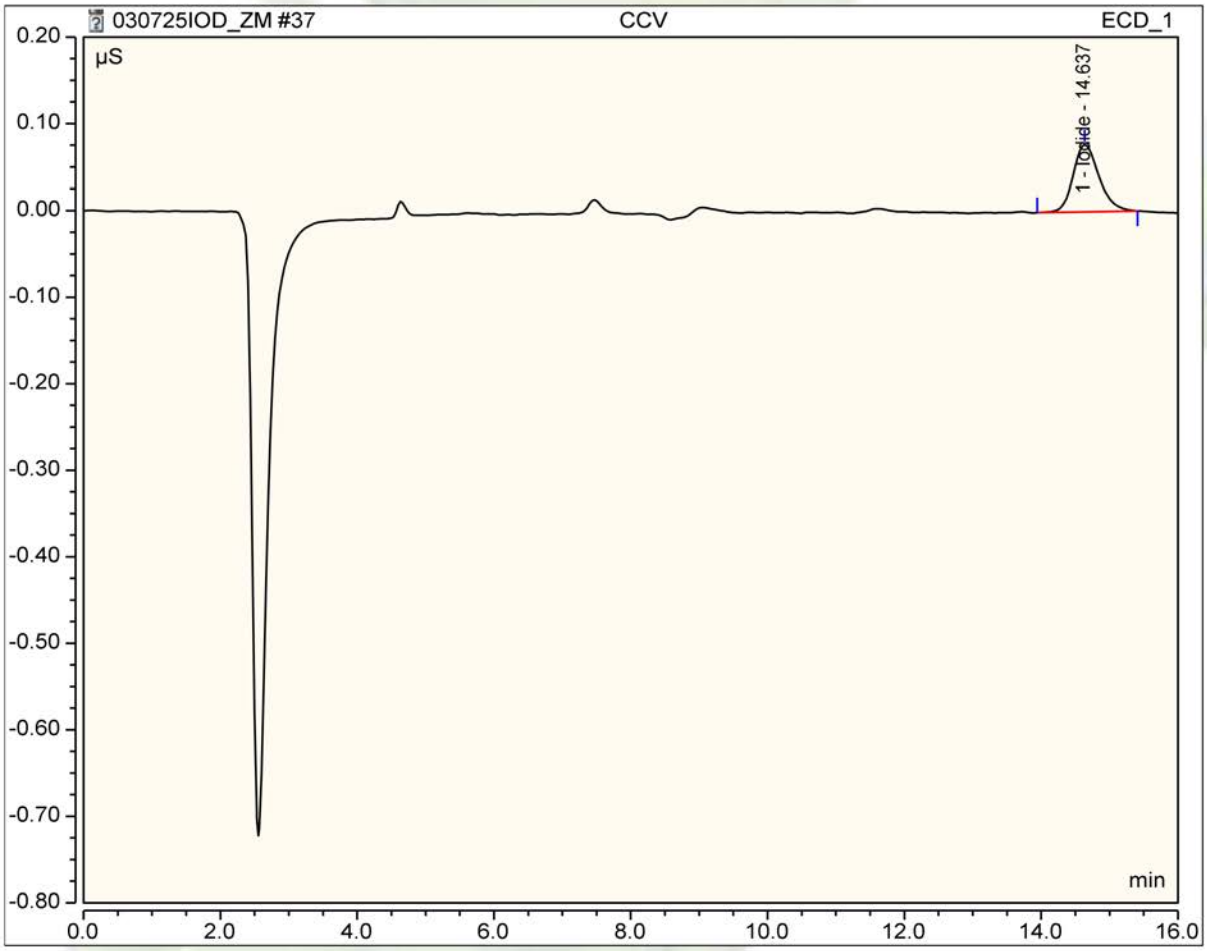
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 01:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

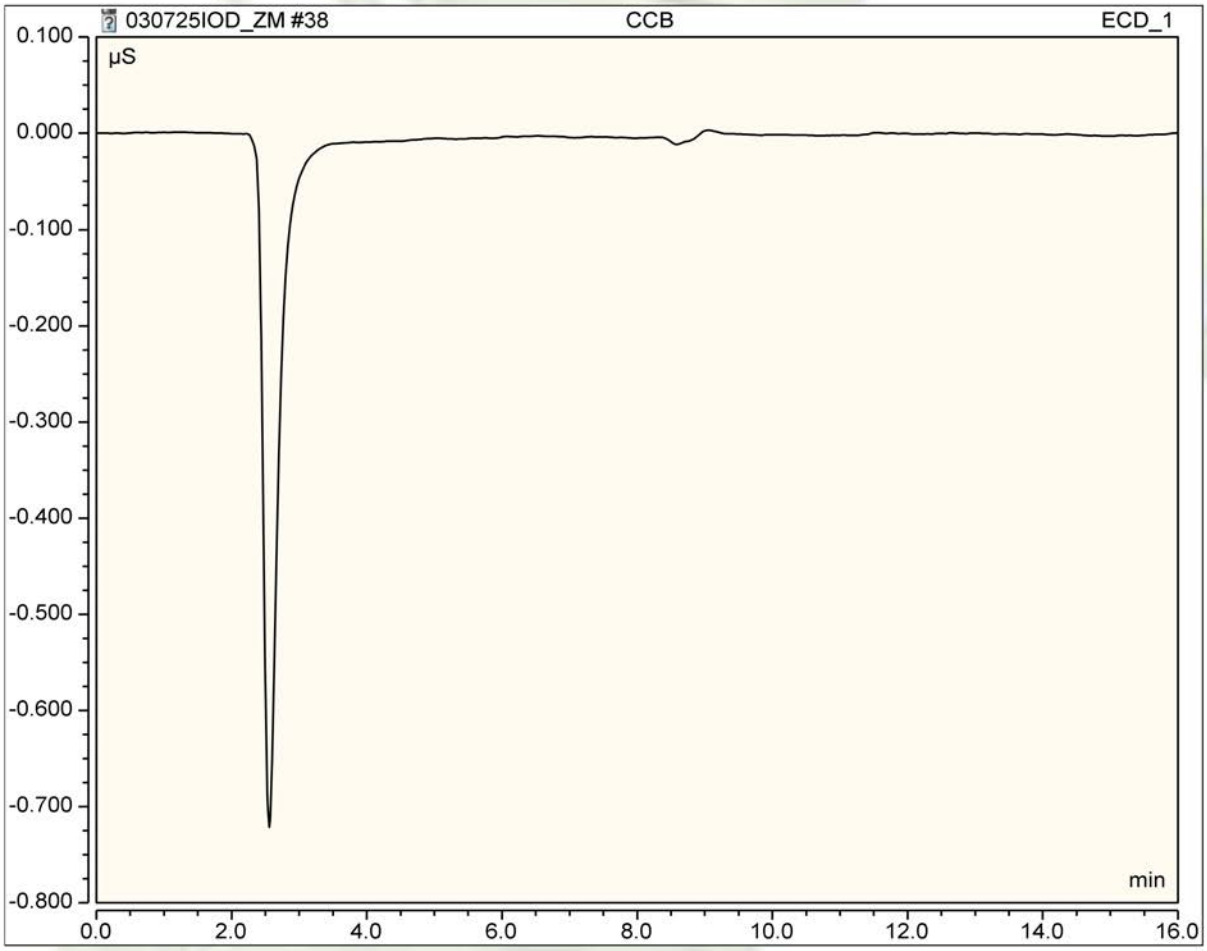
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.64	**Iodide**	0.9315	0.034	0.077	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 02:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

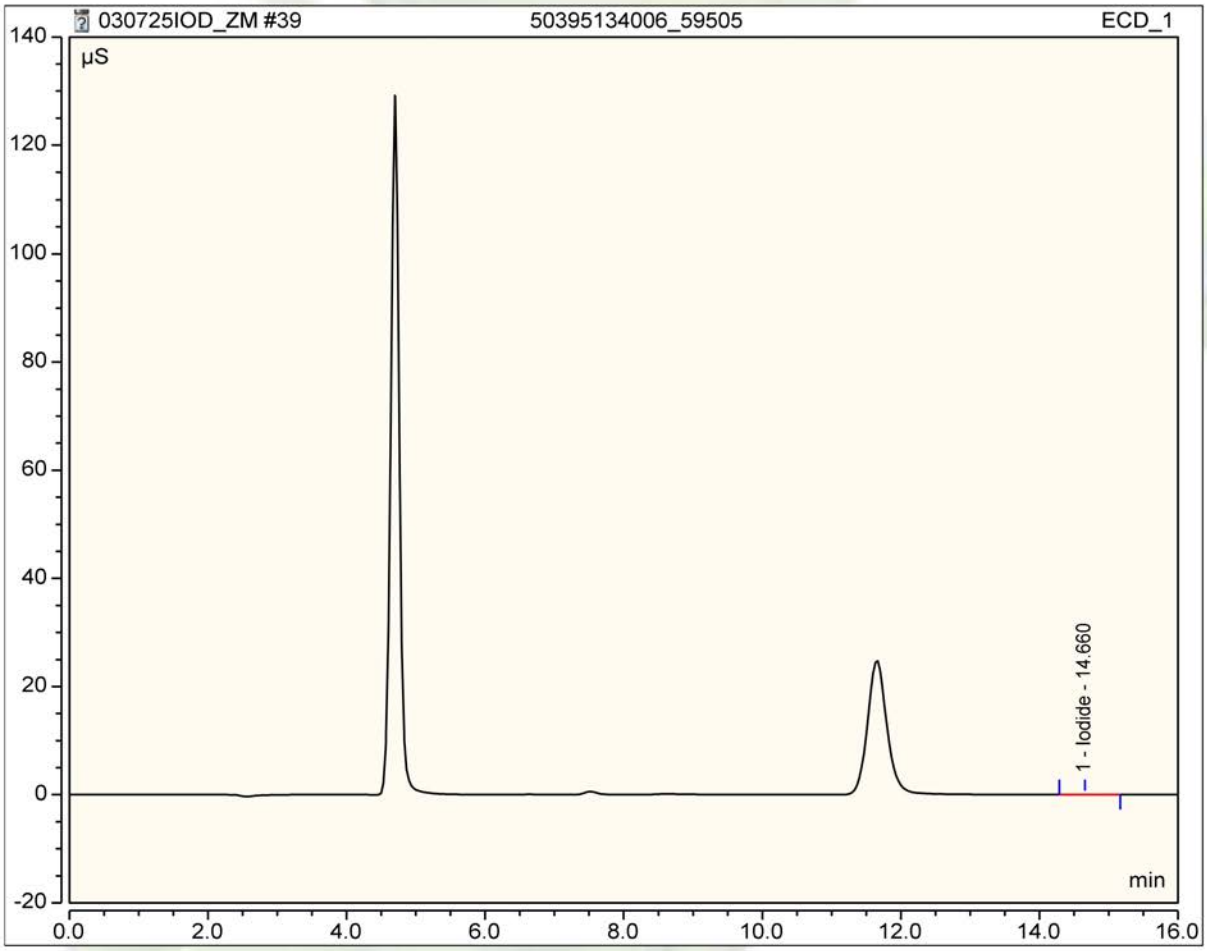
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395134006_59505

Sample Name:	**50395134006_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 02:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

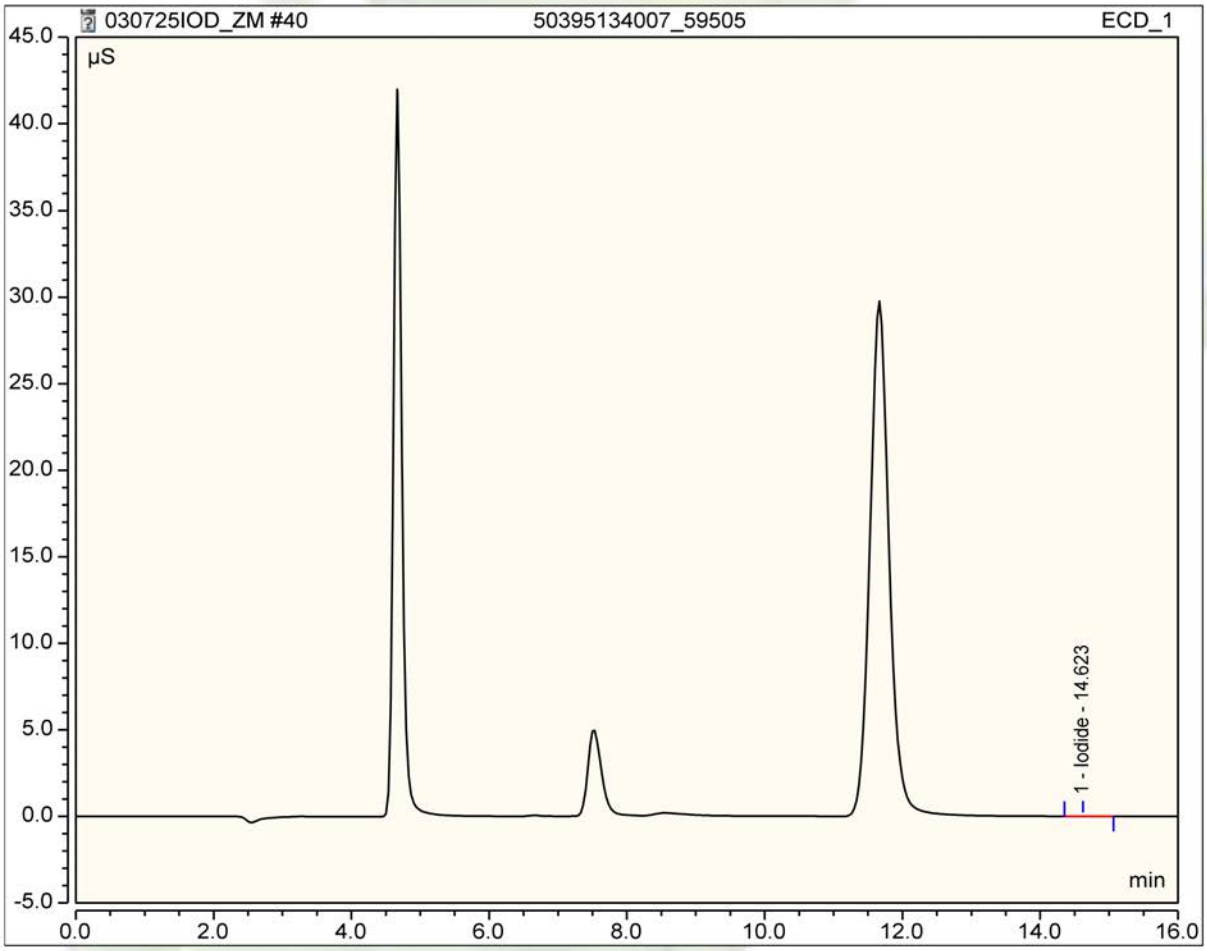
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.66	**Iodide**	0.0322	0.003	0.007	BMB



50395134007_59505

Sample Name:	**50395134007_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 02:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

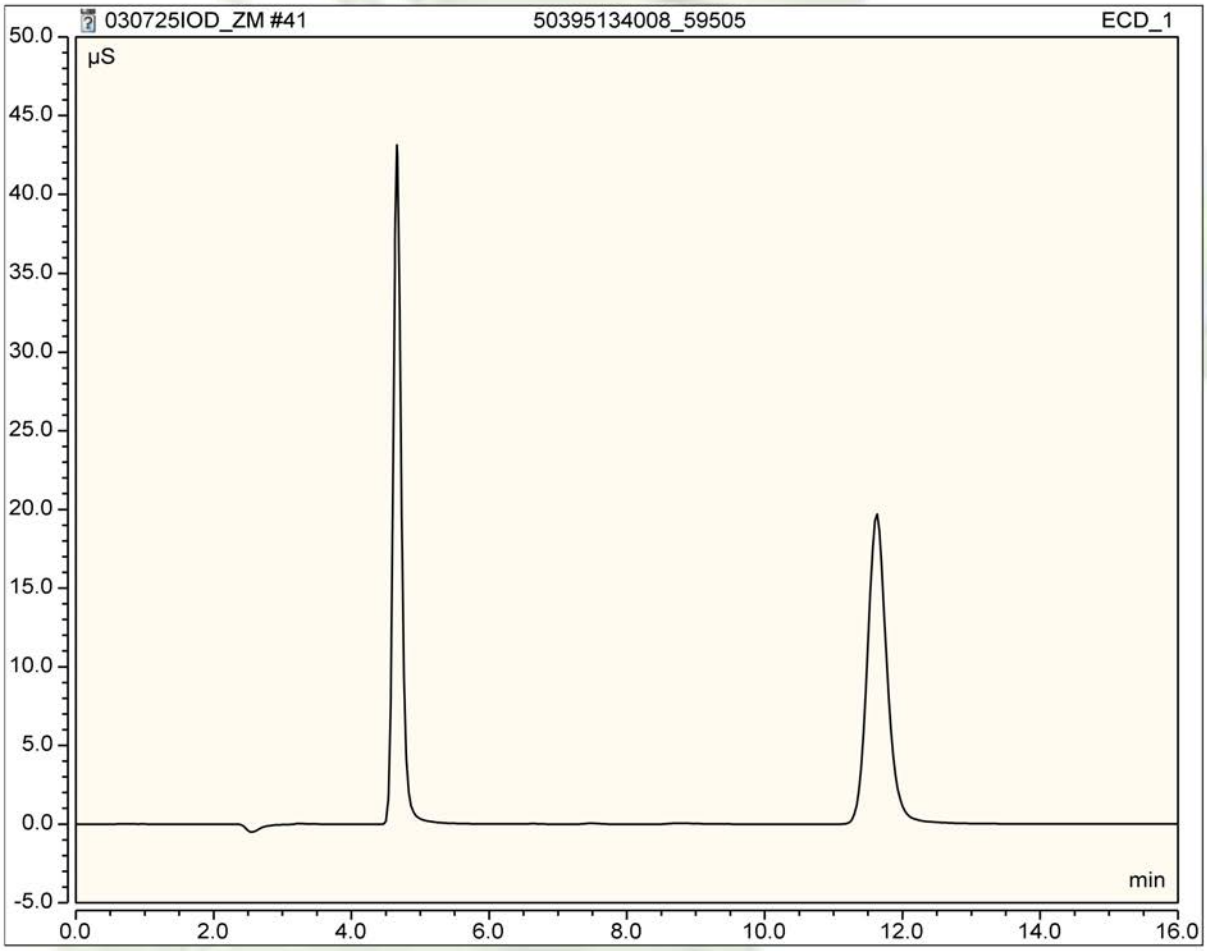
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	n.a.	0.001	0.003	BMB



50395134008_59505

Sample Name:	**50395134008_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 02:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

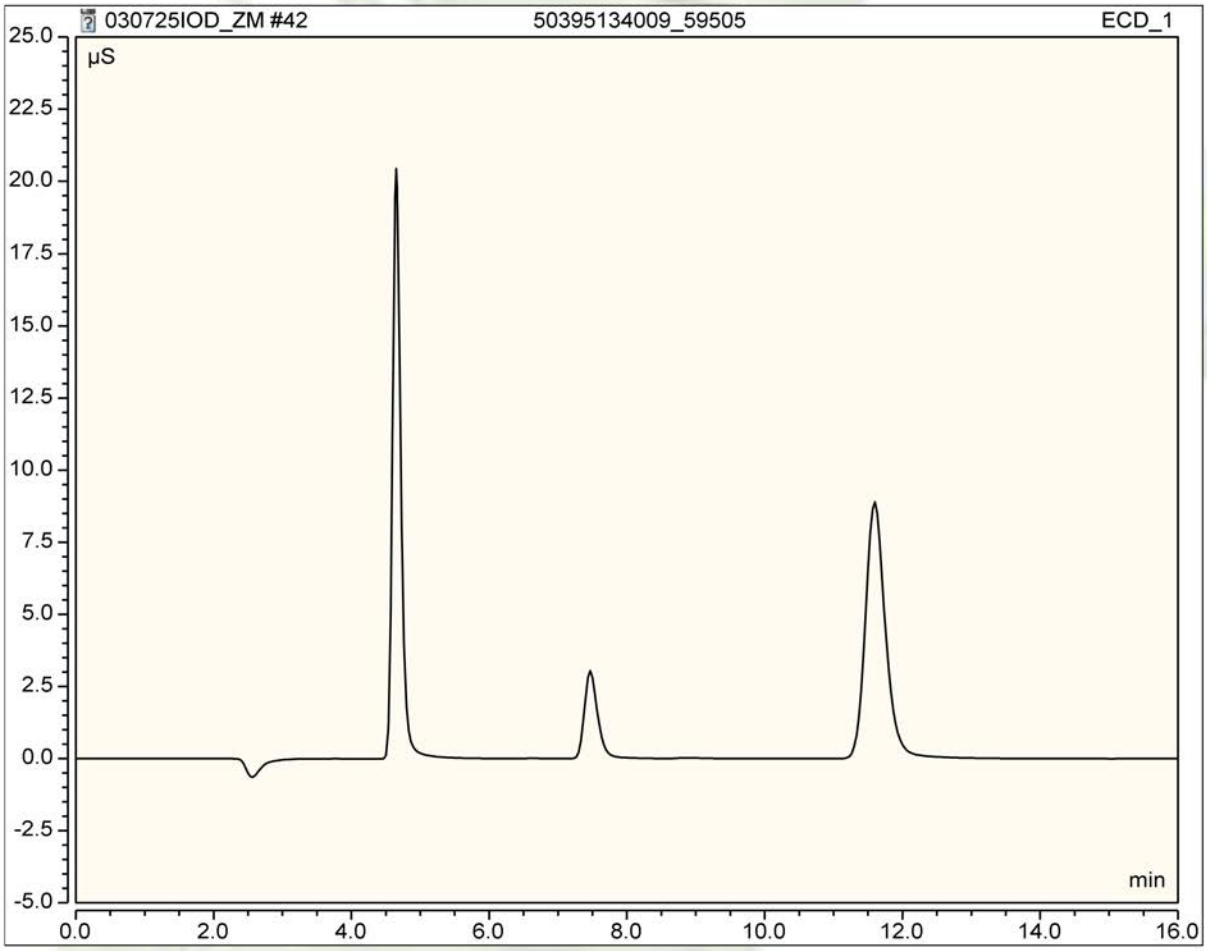
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395134009_59505

Sample Name:	**50395134009_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 03:15**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

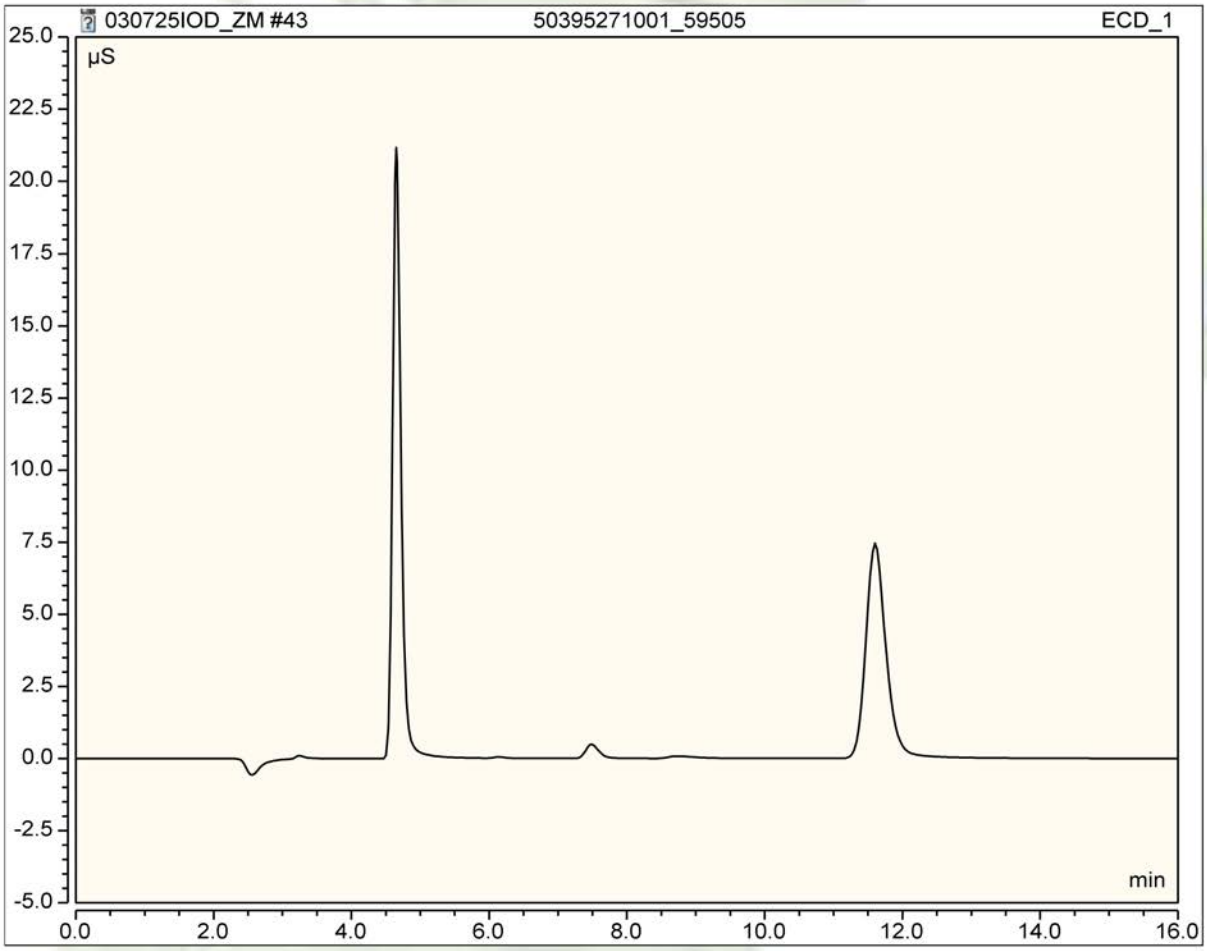
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395271001_59505

Sample Name:	**50395271001_59505**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 03:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

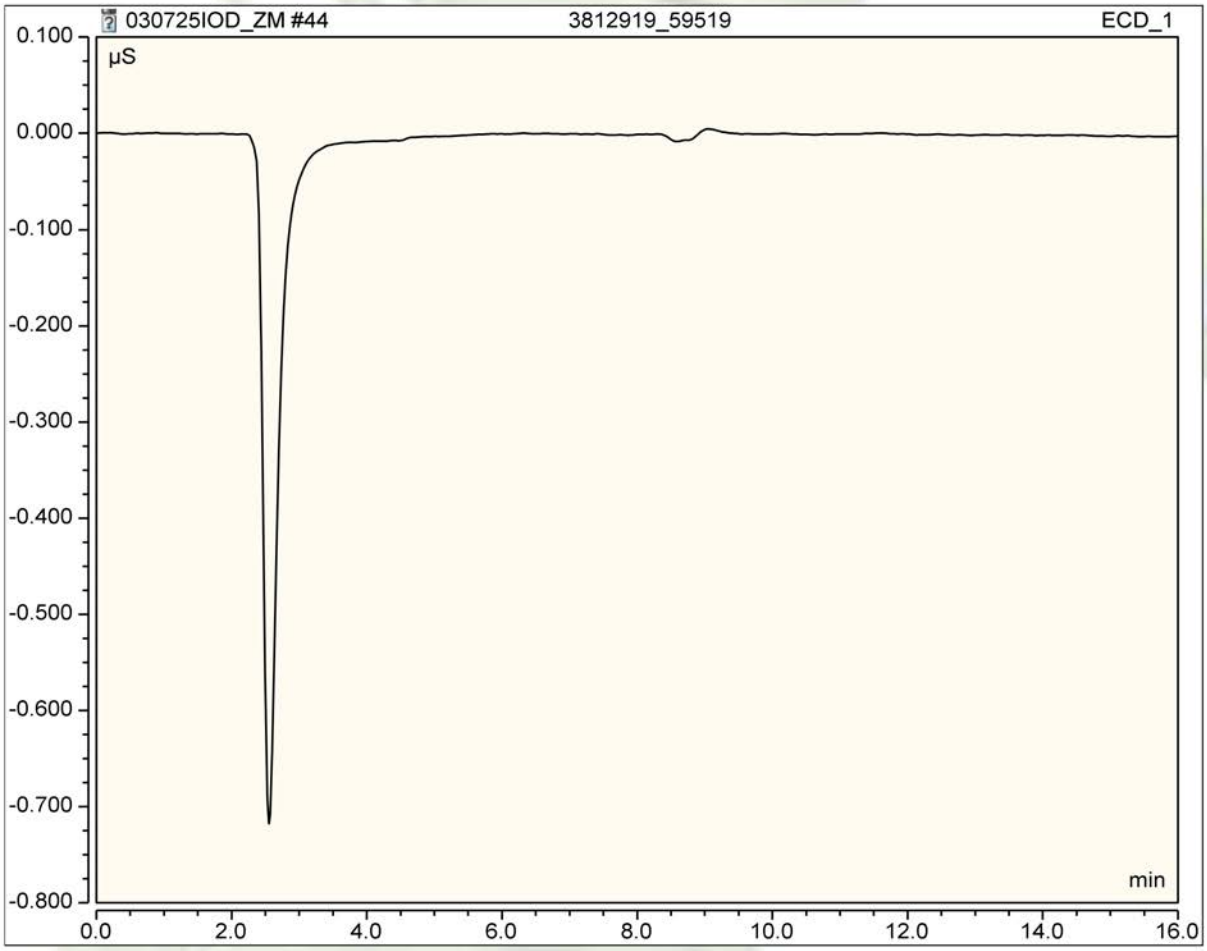
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3812919_59519
340111

Sample Name:	**3812919_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 03:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

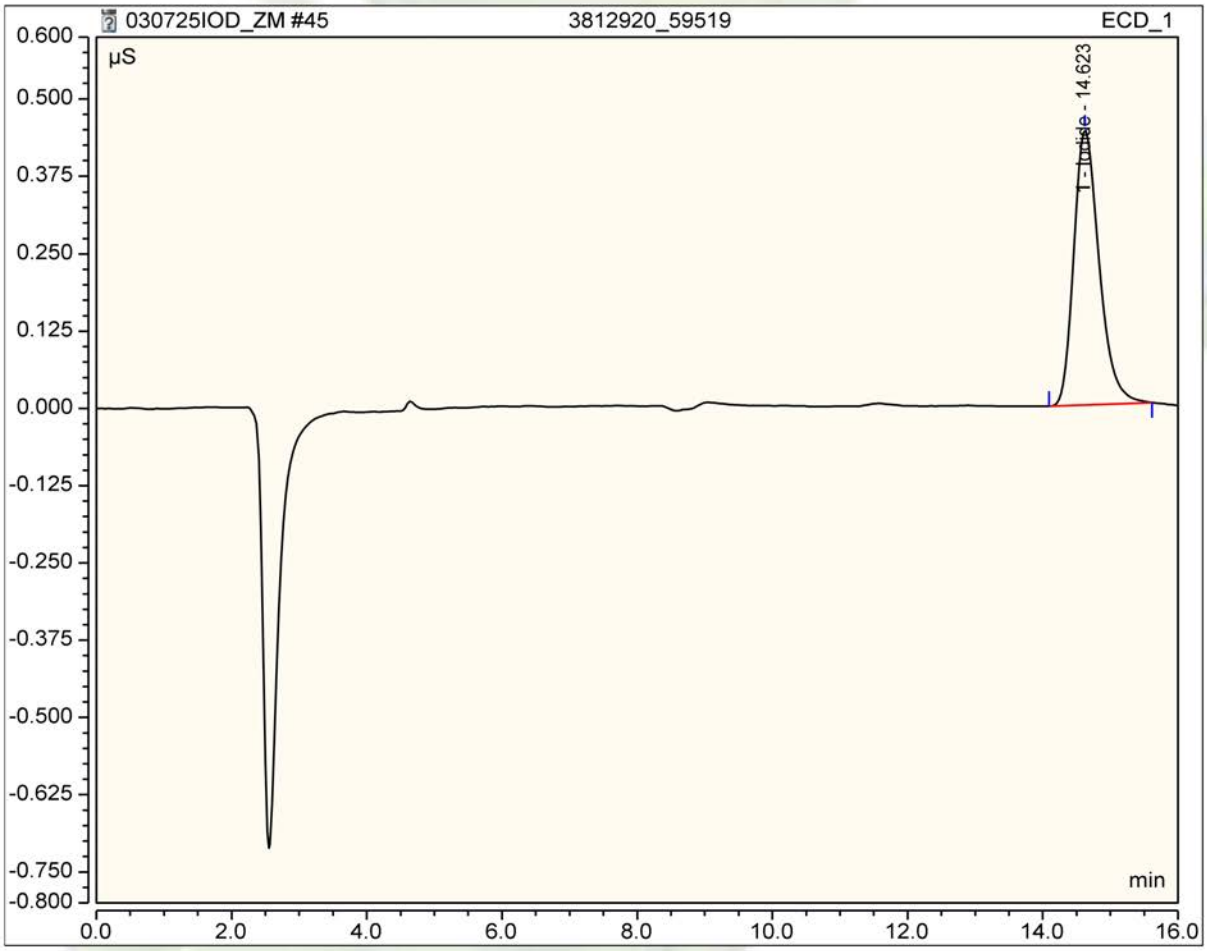
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3812920_59519
377680

Sample Name:	**3812920_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 04:10**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

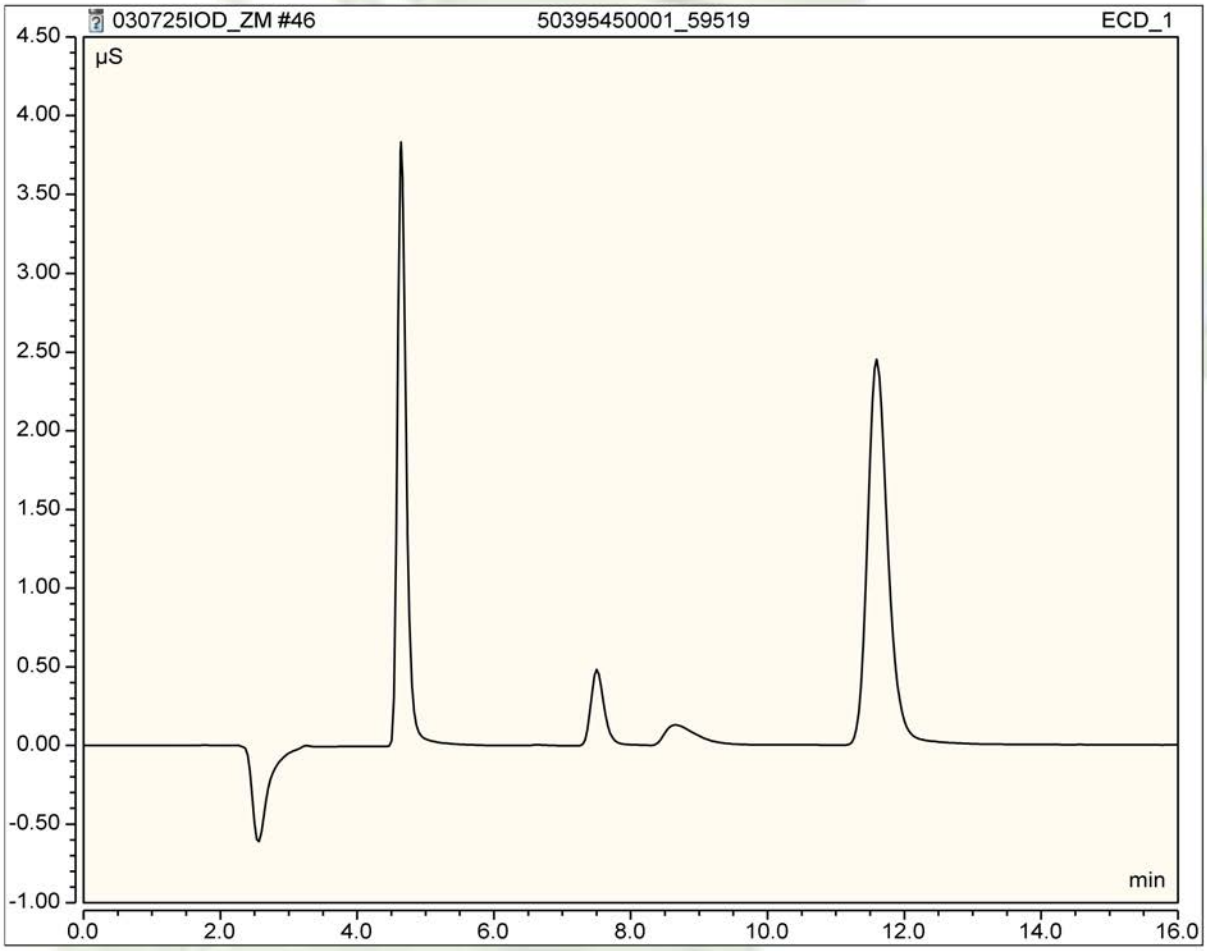
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	5.5564	0.194	0.444	BMB



50395450001_59519

Sample Name:	**50395450001_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 04:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

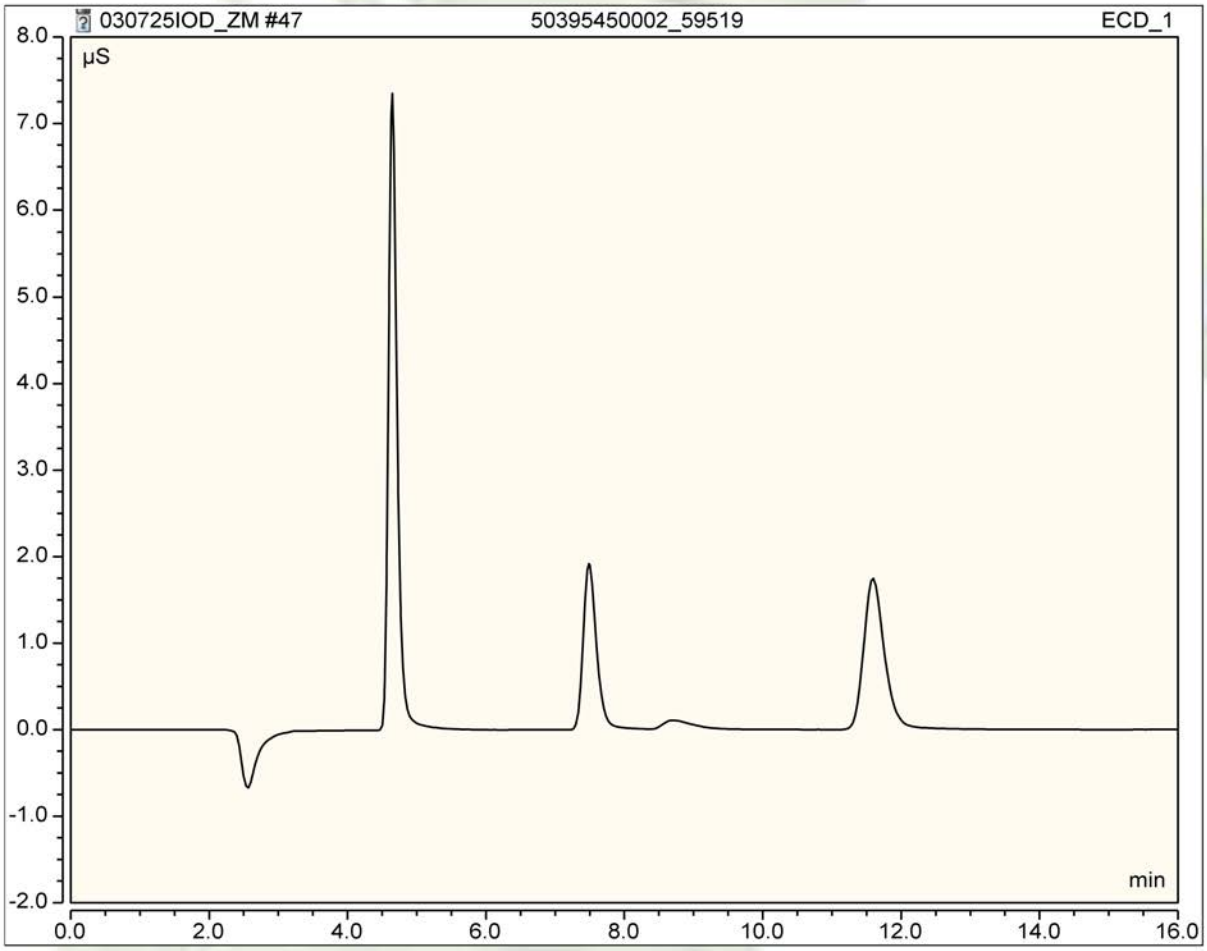
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395450002_59519

Sample Name:	**50395450002_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 04:47**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

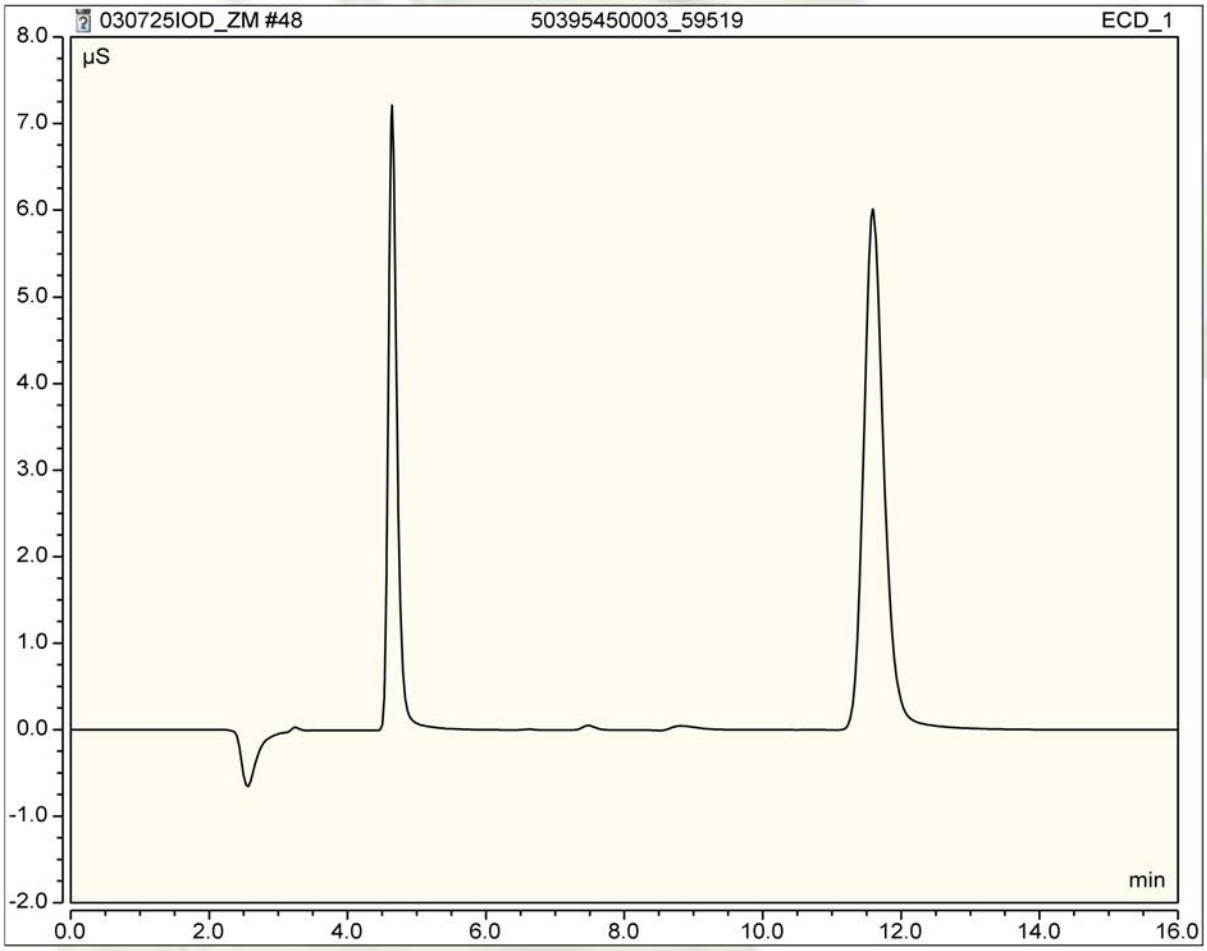
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395450003_59519

Sample Name:	**50395450003_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RD8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 05:05**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

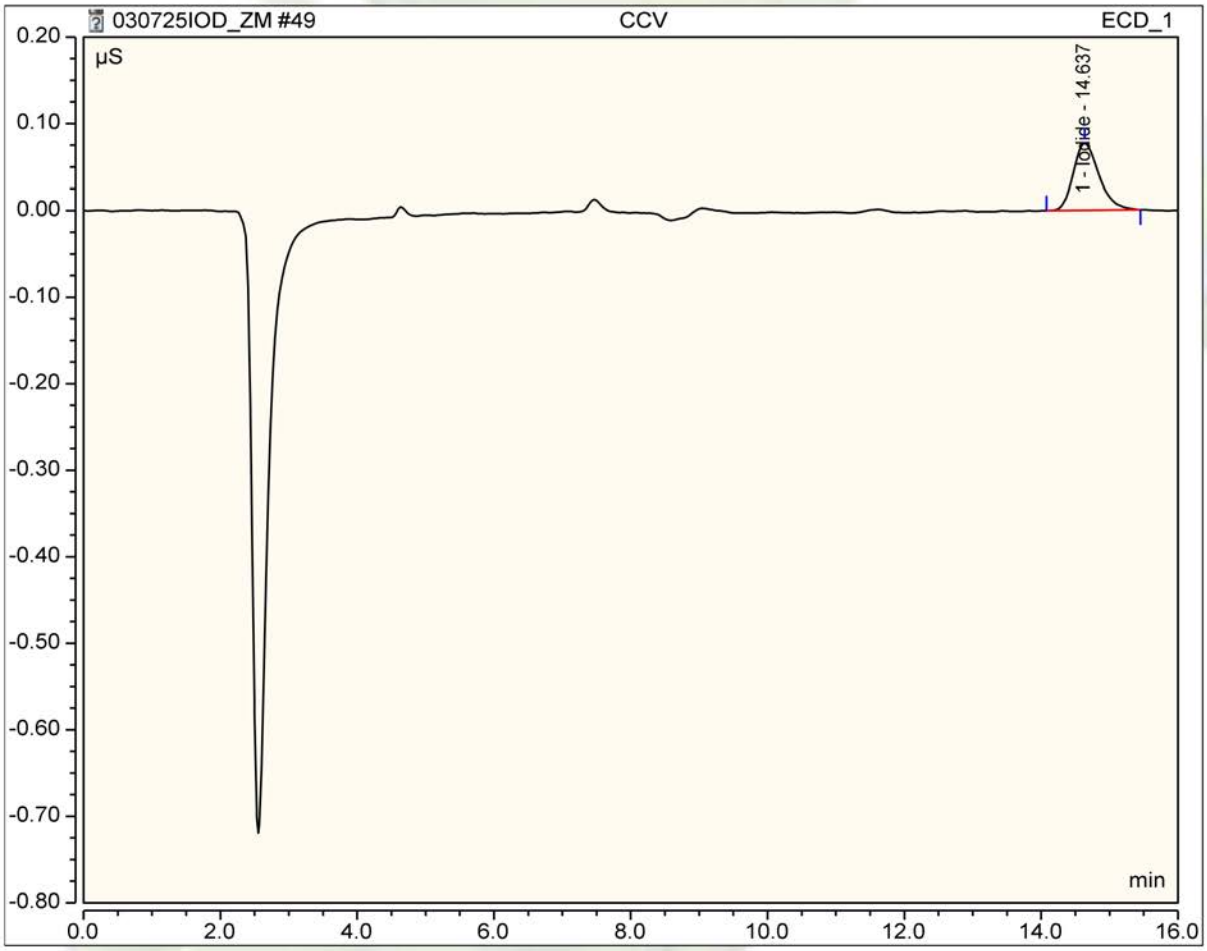
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 05:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

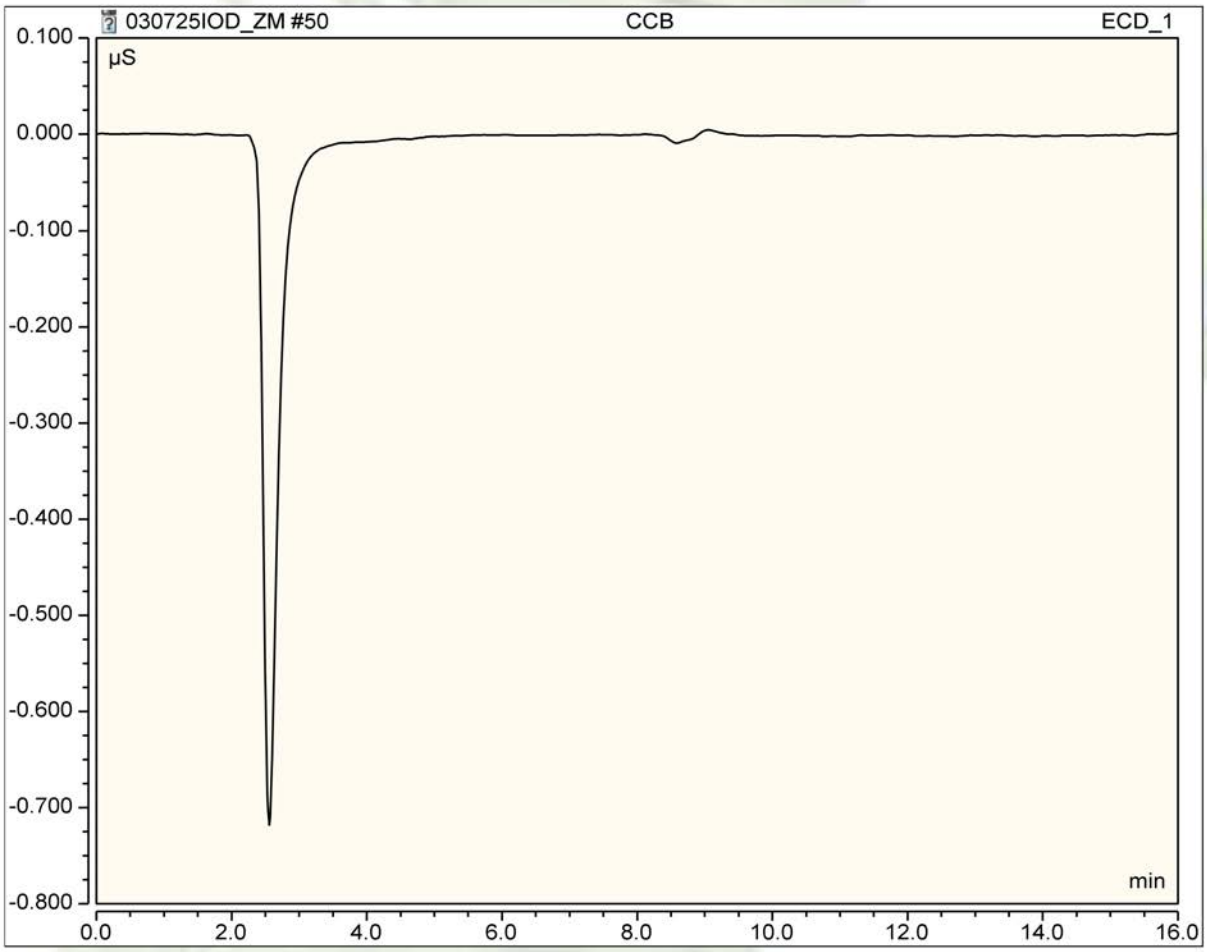
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.64	**Iodide**	0.9225	0.033	0.077	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 05:42**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

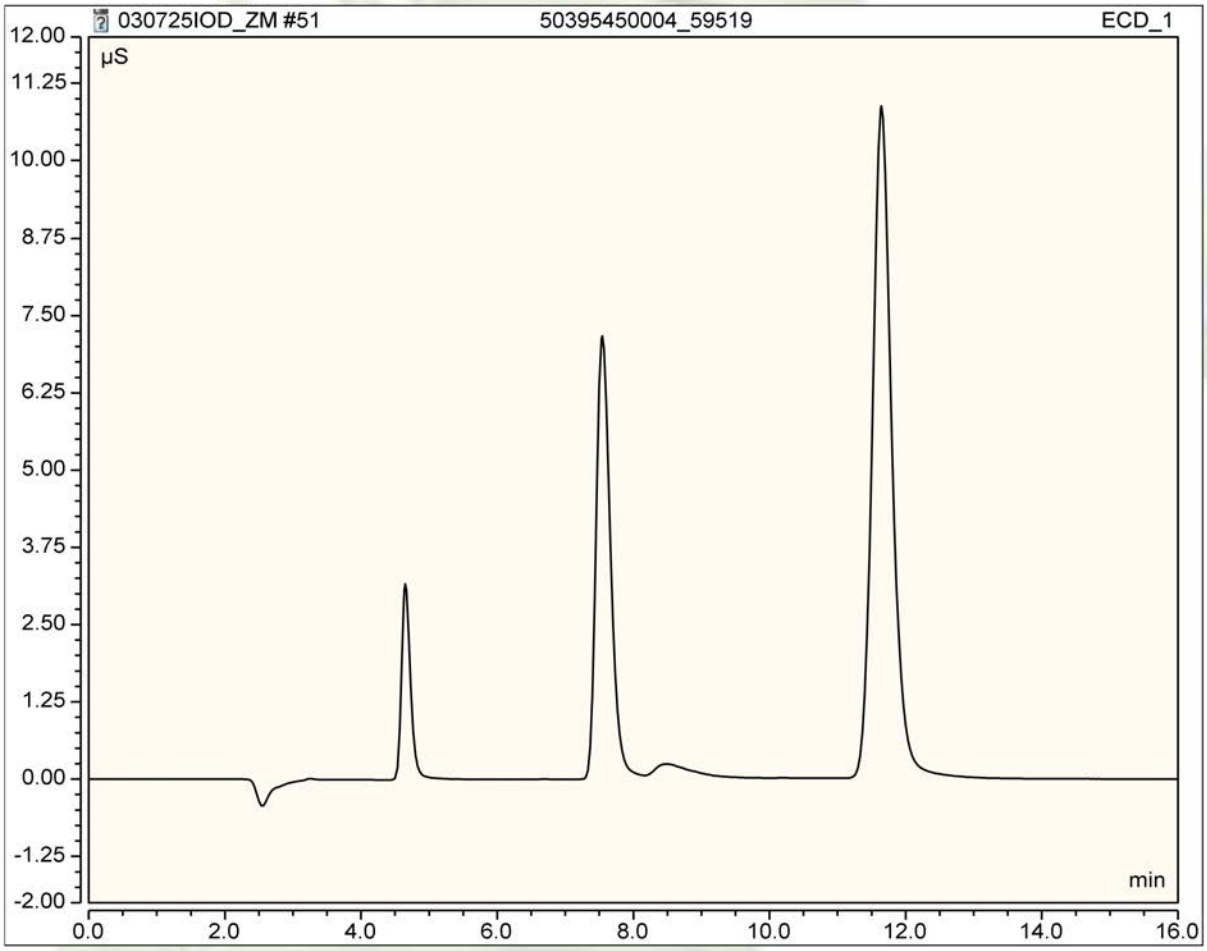
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395450004_59519

Sample Name:	**50395450004_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 06:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

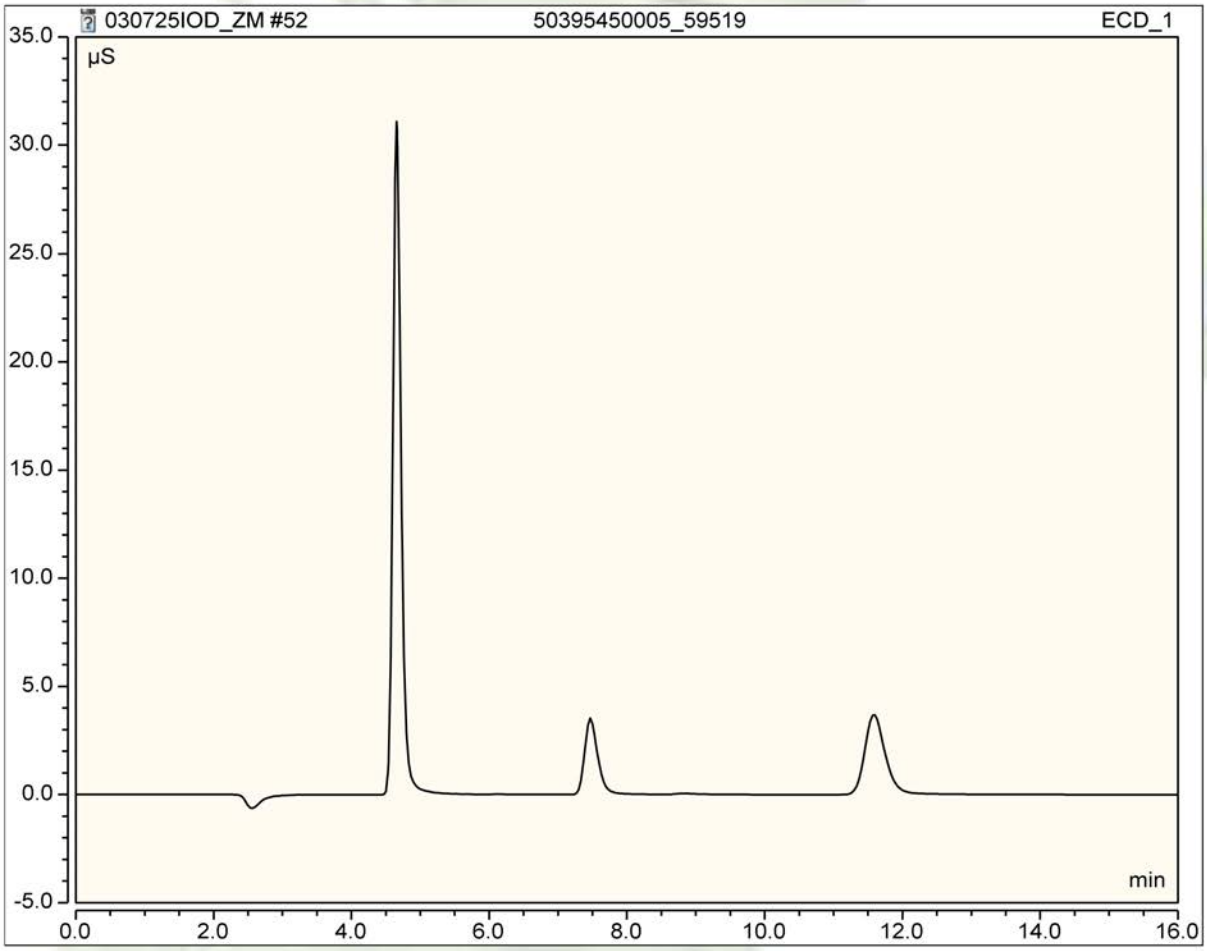
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395450005_59519

Sample Name:	**50395450005_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 06:18**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

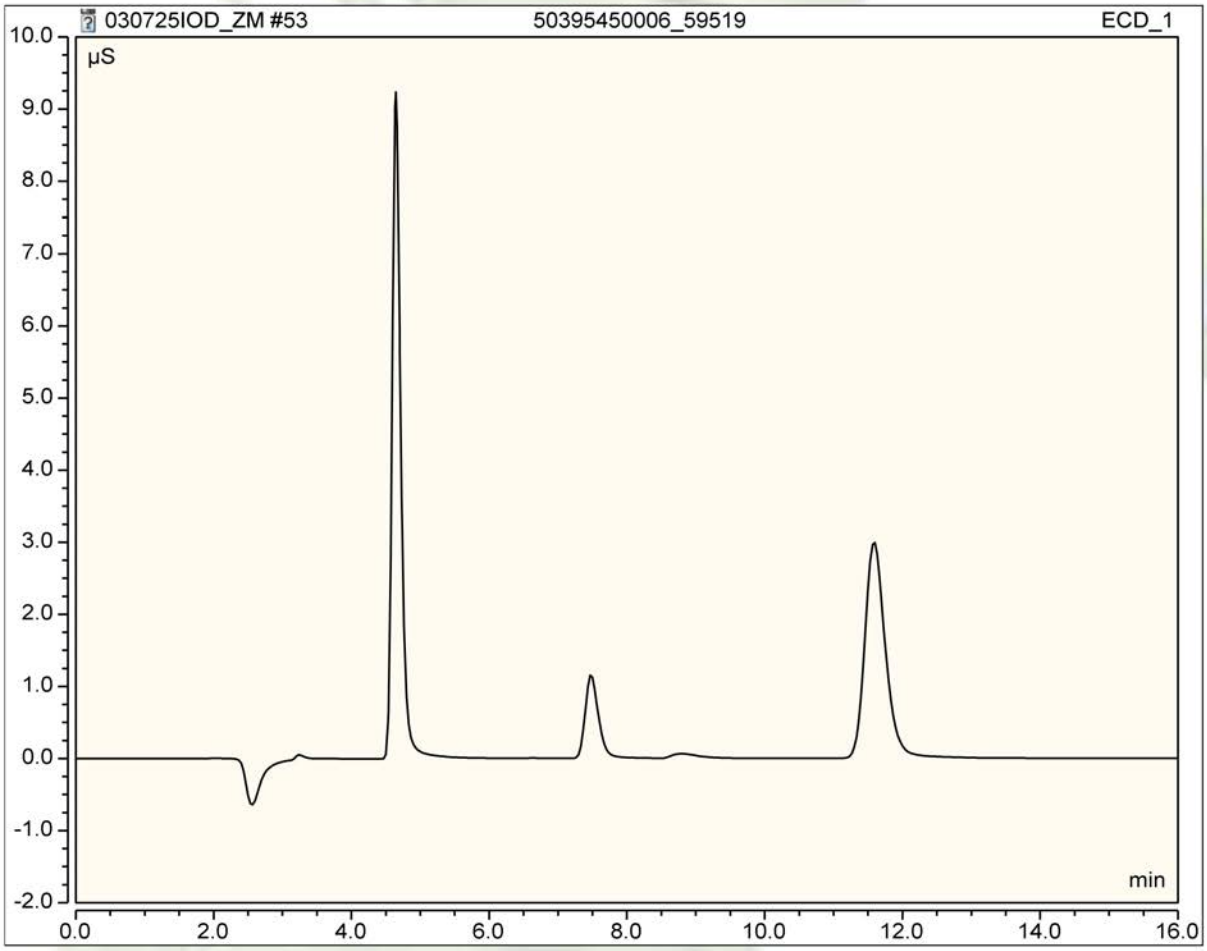
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395450006_59519

Sample Name:	**50395450006_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 06:37**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

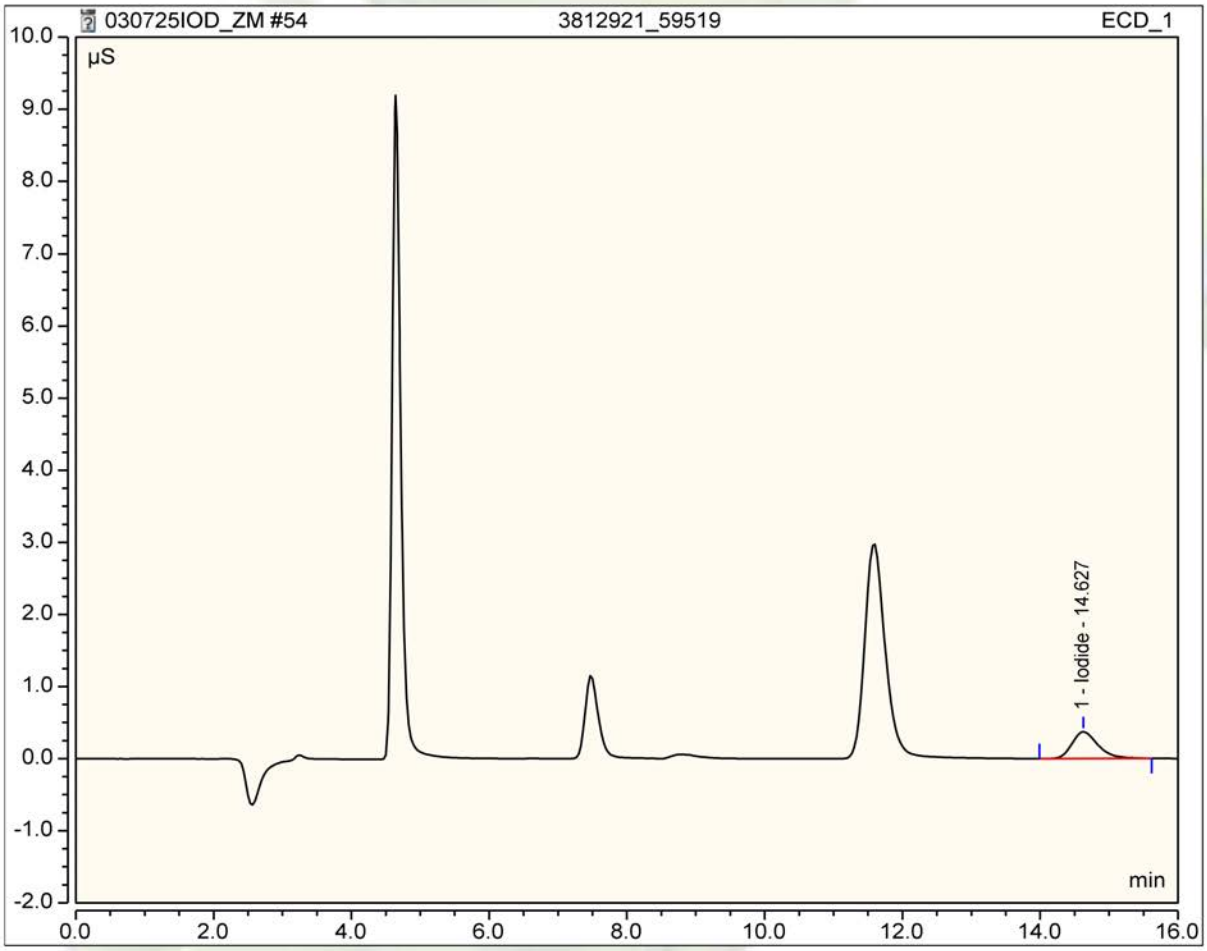
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3812921_59519
377680

Sample Name:	**3812921_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 06:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

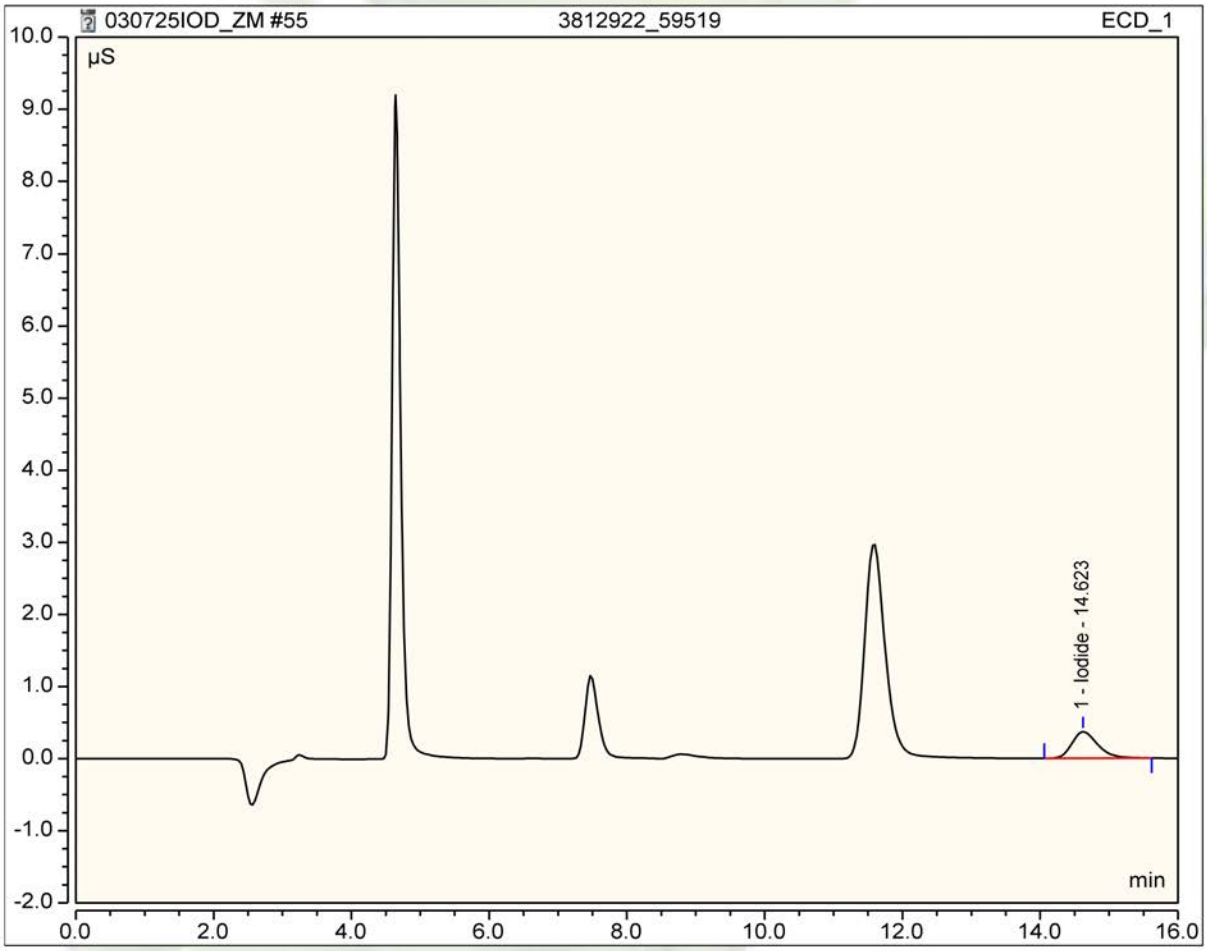
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.63	**Iodide**	4.6064	0.161	0.369	BMB



3812922_59519
377680

Sample Name:	**3812922_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 07:13**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

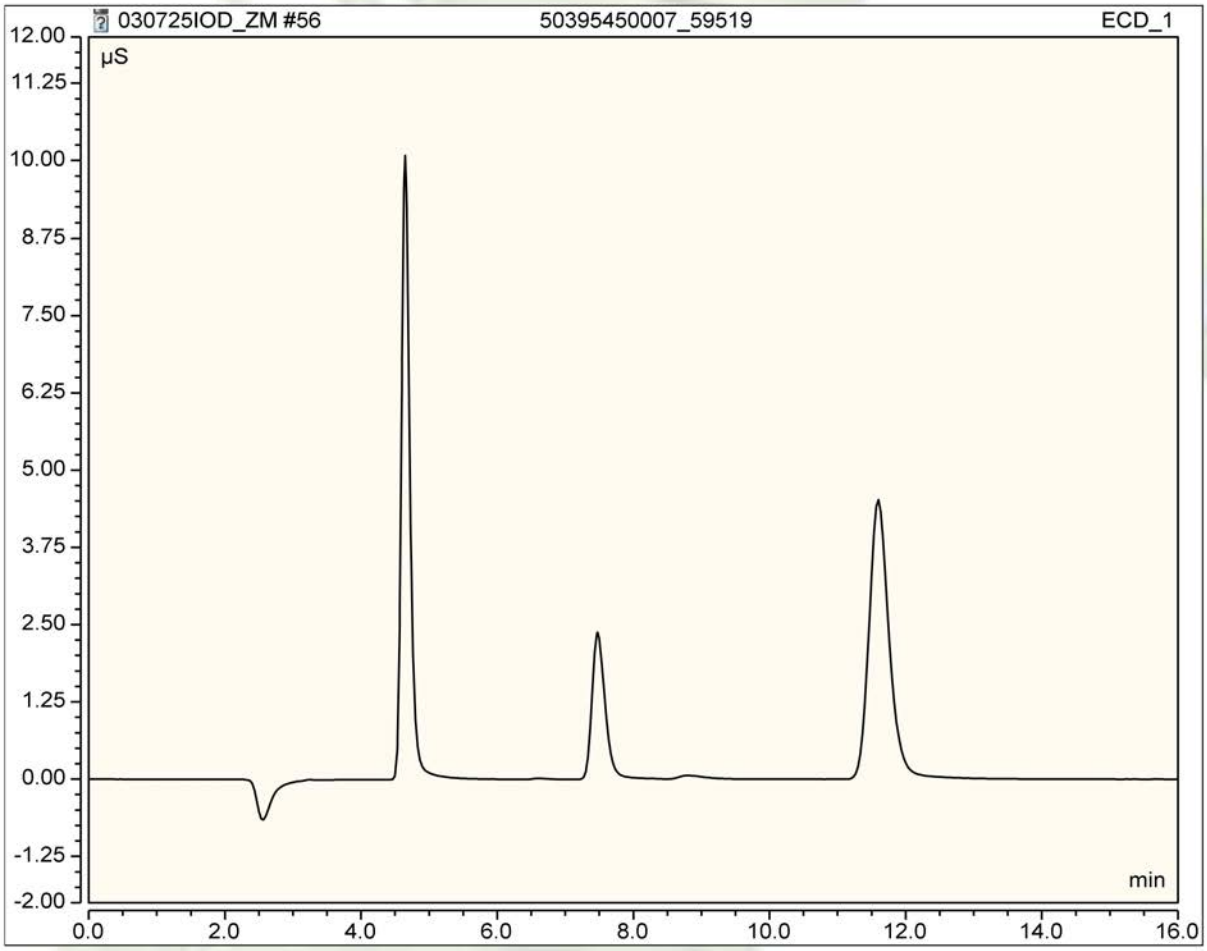
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	4.6108	0.161	0.368	BMB



50395450007_59519

Sample Name:	**50395450007_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 07:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

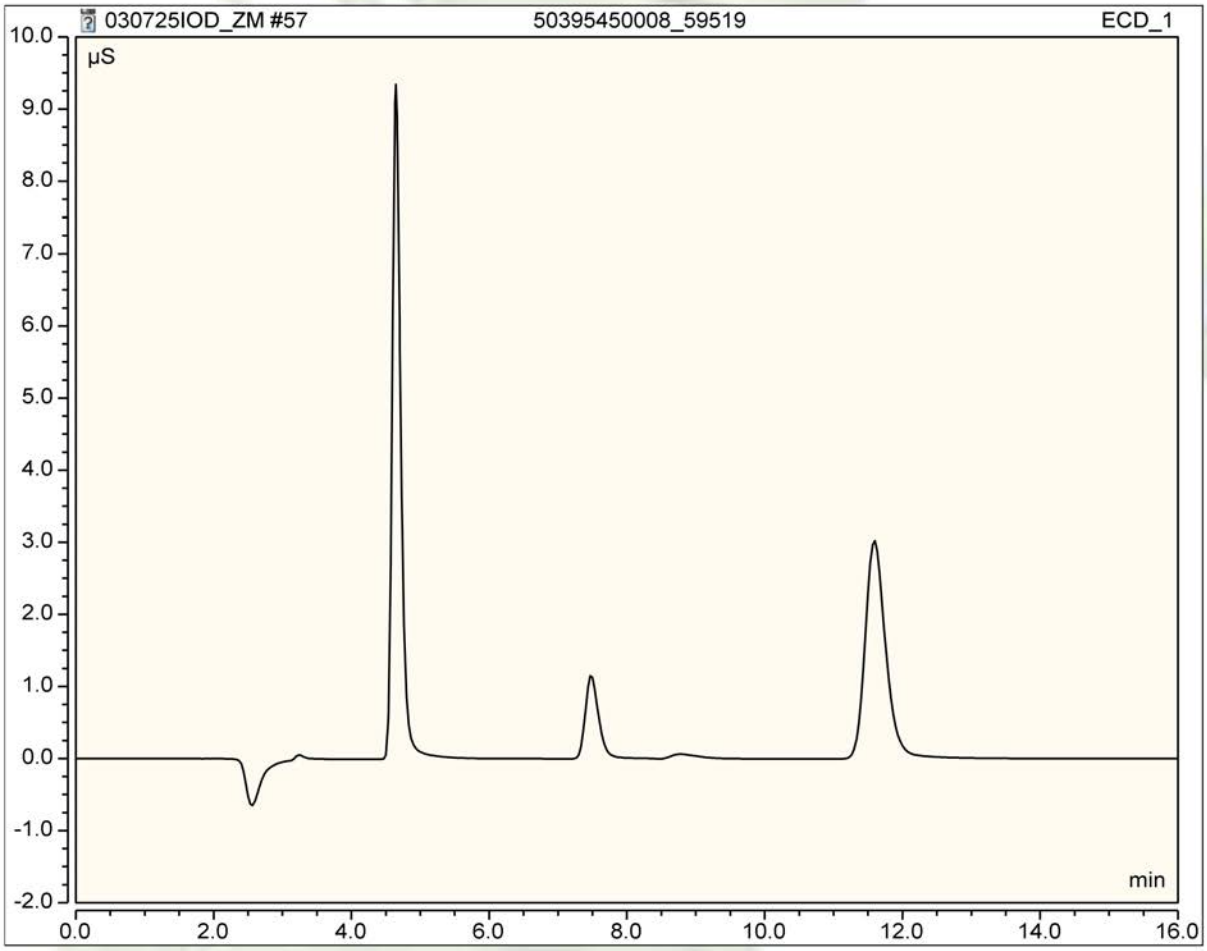
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395450008_59519

Sample Name:	**50395450008_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 07:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

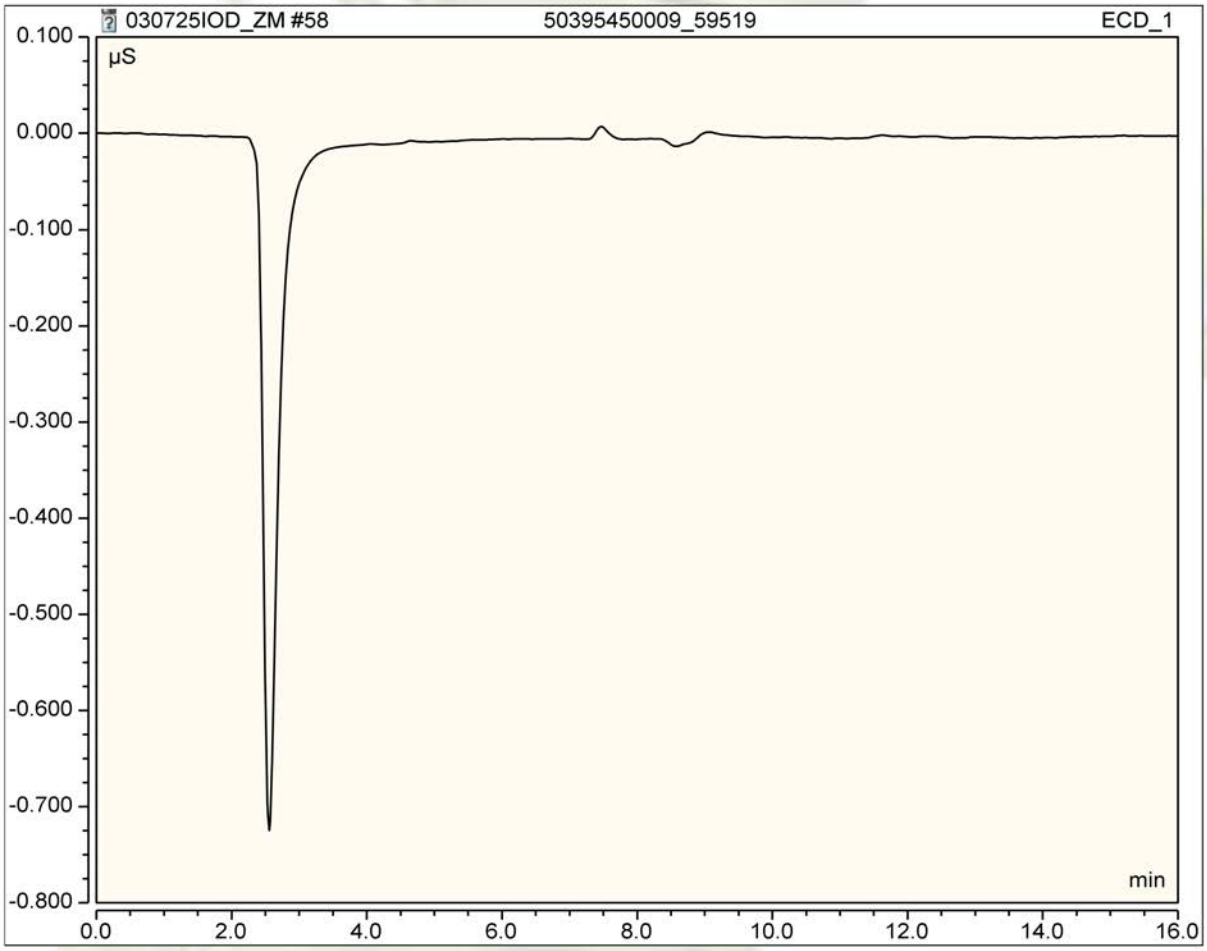
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395450009_59519

Sample Name:	**50395450009_59519**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RE7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 08:08**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

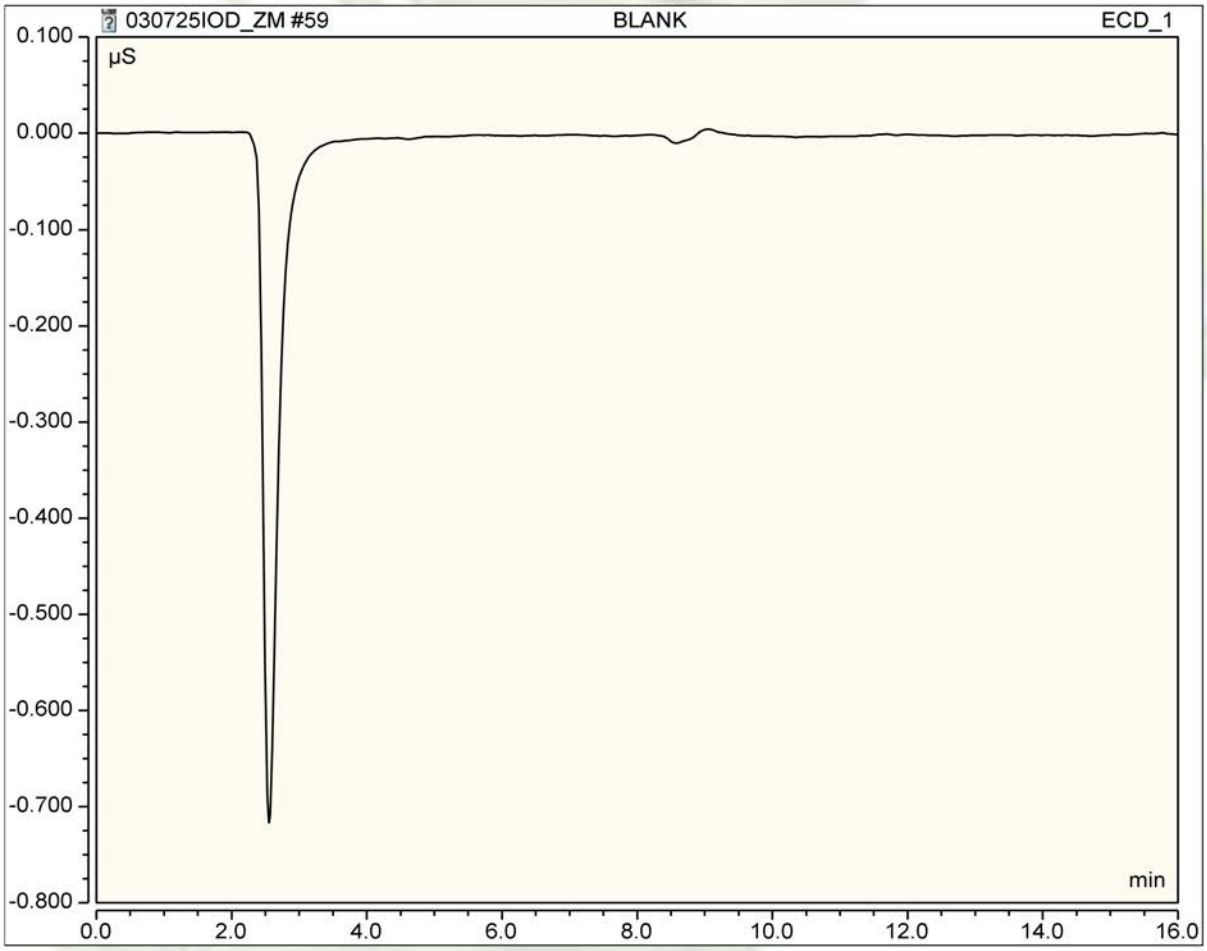
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



BLANK
340111

Sample Name:	**BLANK**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 08:26**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

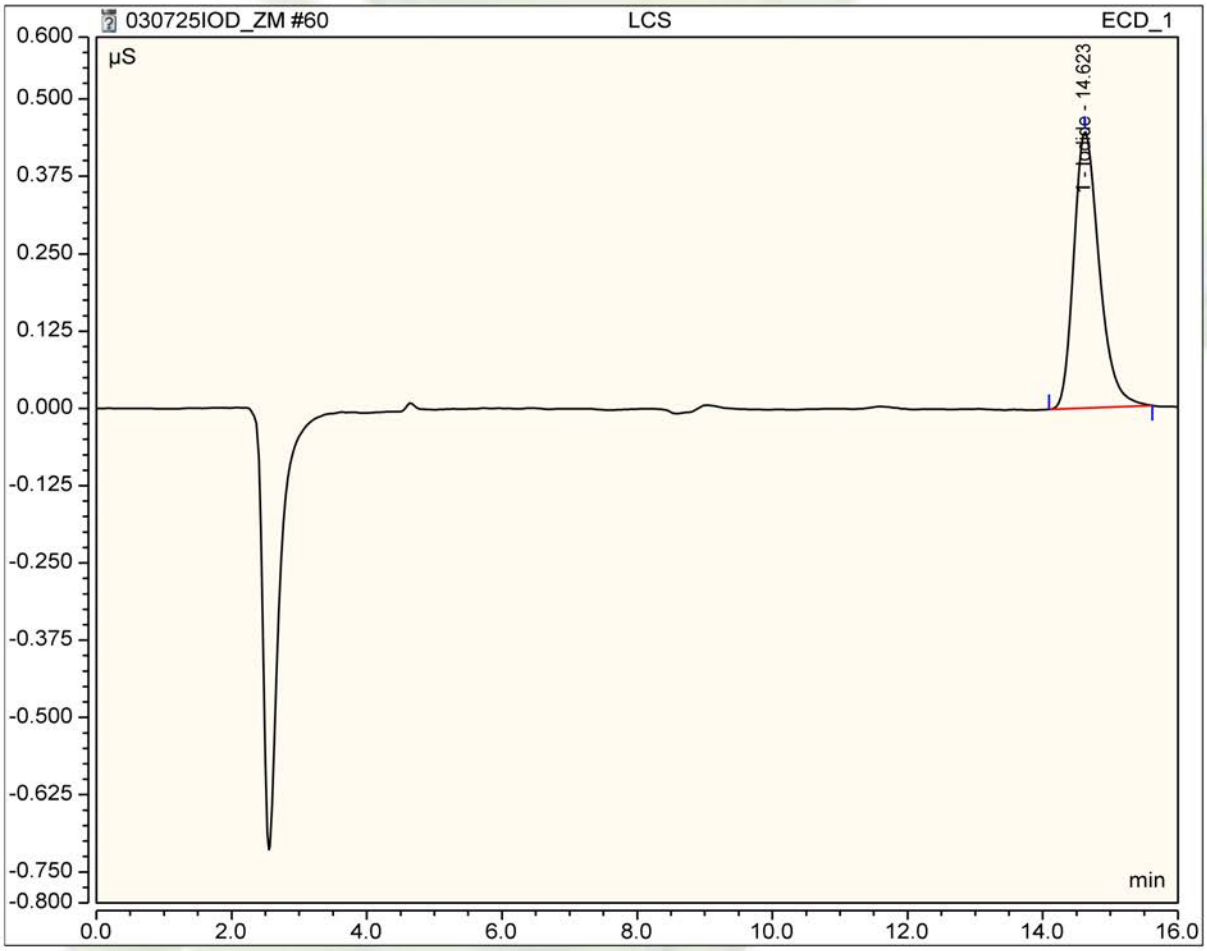
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



LCS
377680

Sample Name:	**LCS**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 08:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

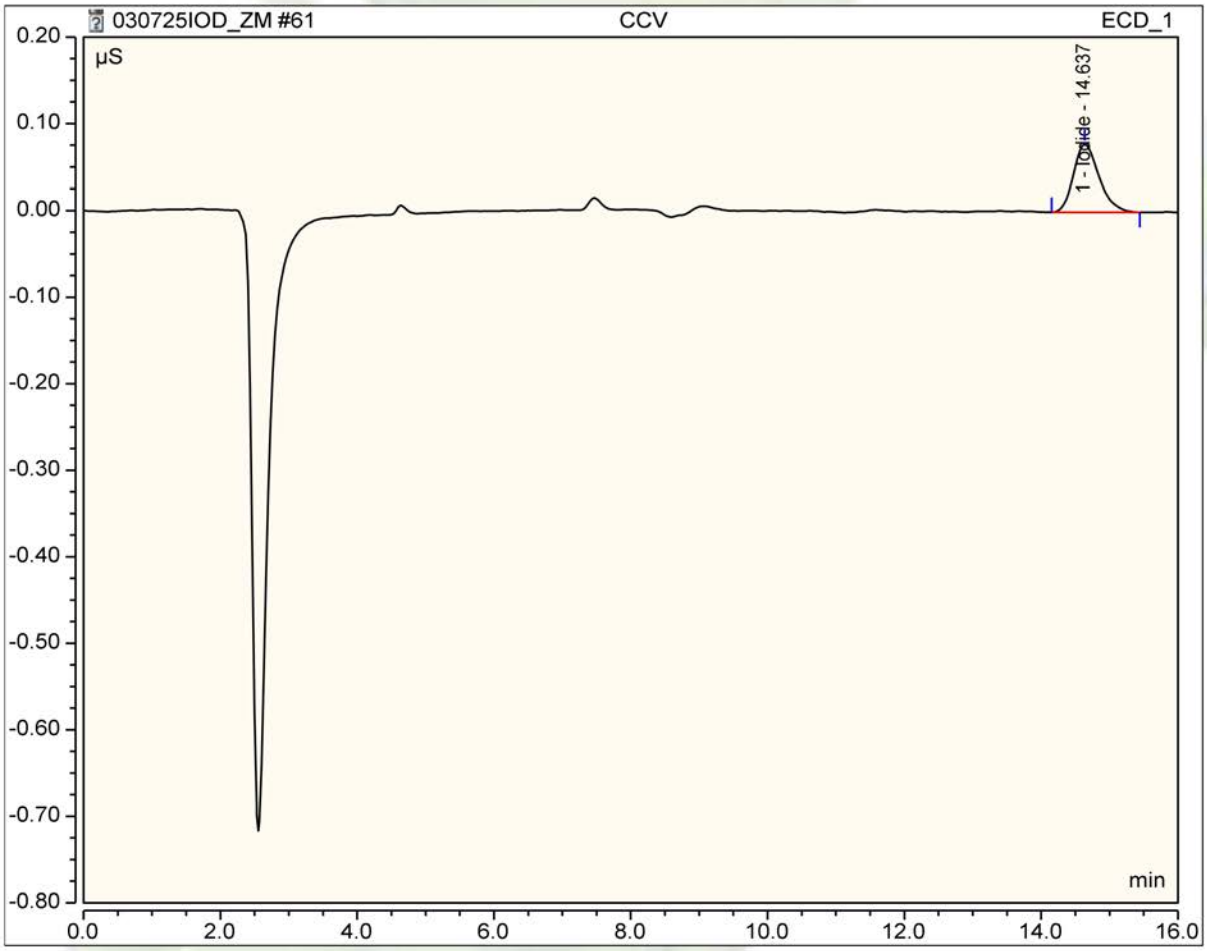
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.62	**Iodide**	5.6110	0.196	0.447	BMB



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 09:03**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.64	**Iodide**	0.9303	0.034	0.078	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**406504**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/08/2025 09:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type